Kane County
KC Executive Committee
Agenda

Government Center
719 S. Batavia Ave., Bldg. A
Geneva, IL 60134

PIEROG, Allan, Bates, Berman, Davoust, Ford, Gumz, Kious, Kenyon, Lewis, Linder, Molina, Sanchez, Strathmann, Surges, & ex-officio Tepe (County Vice Chair)

Wednesday, October 4, 2023 **9:00 AM** **County Board Room**

1. **Call to Order**
2. **Roll Call**
3. **Remote Attendance Requests**
4. **Pledge of Allegiance**
5. **Approval of Minutes: September 6, 2023**
6. **Public Comment (Agenda Items)**
7. **Monthly Financials (K. Hopkinson)**
   - **A.** Monthly Finance Reports (attached)
8. **PIO Update (J. Mann)**
9. **Old Business**
10. **New Business**
11. **Preliminary County Board Agenda:**

---------- **CONSENT AGENDA** ----------

American Rescue Plan

1. **Resolution:** Authorizing the Use of State and Local Fiscal Recovery Funds to Fund an Access Control Program for the Kane County Building Management Department
2. **Resolution:** Authorizing the Use of State and Local Fiscal Recovery Funds to Fund the Kane County Manufacturing and Sustainability Fund for the Kane County Development and Community Services Department
3. **Resolution:** Authorizing the Use of State and Local Fiscal Recovery Funds to Fund Mobile Operations Command Post for the Kane County Office of Emergency Management

4. **Resolution:** Authorizing the Use of State and Local Fiscal Recovery Funds to Fund Counseling Needs and Meeting Increased Demand for the Kane County Child Advocacy Center

5. **Resolution:** Authorizing the Use of State and Local Fiscal Recovery Funds to Fund Kane County Tourism Recovery and Promotion for a Sustainable Future Fund for the Kane County Development and Community Services Department

6. **Resolution:** Authorizing the ARPA Program Manager to Approve Invoices from Ernst & Young, LLP for Professional Services Related to the ARPA Program

County Development

1. **Resolution:** Authorizing Reorganization of the Office of Community Reinvestment and Associated Salary Adjustments (100% Grant Funded)

Finance

1. **Resolution:** Approving August 2023 Claims Paid

2. **Resolution:** Authorizing the Salary Adjustment for the Executive Director of Kane County Emergency Communications

3. **Resolution:** Authorizing the Kane County Sheriff's Office New Administration Wing Project and a Budget Adjustment to the Capital Fund

4. **Resolution:** Authorizing Gymnasium Floor Replacement at the Juvenile Justice Center

5. **Resolution:** Authorizing Creation of Boyer Road Special Service Area Fund #5315

6. **Resolution:** Authorizing the Finance Department to Contract with JP Morgan Chase Bank, N.A. of Chicago, IL for the Procurement Credit Card Program

7. **Resolution:** Authorization of a Contract for Kane County Generator Maintenance Services

8. **Resolution:** Authorizing a Contract Extension for a Water Testing Firm for the Judicial Center Campus with Phigenics Independent Water Management of Warrenville, IL

9. **Resolution:** Authorizing a Contract Extension for a Water Operator for the Judicial Center Campus with Sheaffer and Roland of Geneva, IL

10. **Resolution:** Authorizing a Contract for Building Management Snow Plowing Services

11. **Resolution:** Authorizing a Contract for Kane County Electrician Services

12. **Resolution:** Authorizing a Contract for Fire Protection Services

13. **Resolution:** Authorizing a Contract for Cloud Based Community Communication Center - TTEC Digital Services

14. **Resolution:** Authorizing an Agreement for Mill Creek Special Service Area Snow Plowing Services

15. **Resolution:** Authorization for Mill Creek Parkway Tree Installation Services Contract Extension

16. **Resolution:** Authorizing Contract Extension for Bottled Water Service

17. **Resolution:** Authorizing the Extension for Landscape Maintenance Service for the Mill Creek Special Service Area

18. **Resolution:** Authorizing an Extension of Concrete Lifting and Repair Services Agreement for the Mill Creek Special Service Area

19. **Resolution:** Authorizing the Child Protection Data Courts Grant

20. **Resolution:** Authorizing Additional Expenditure of Funds for Online Marketplace and Maintenance, Repair, and Operations (MRO) Supplies & Equipment

21. **Resolution:** Authorizing Expenditure of Funds for Multi-Function Copier Devices, Service Solutions, Print Goods, and Service Renewal

22. **Resolution:** Authorizing Expenditure of Funds for Copiers, Printers, and Related Services Renewal

23. **Resolution:** Authorizing Expenditure of Funds for Copiers, Printers, and Related Services Renewal

24. **Resolution:** Authorizing Expenditure of Funds for Network Storage and Services

25. **Resolution:** Authorizing Expenditure of Funds for Computer Hardware, Software, and Services

26. **Resolution:** Authorizing the Kane County Sheriff's Office Purchase of a Bomb Squad X-Ray Machine

27. **Resolution:** Ratifying an Emergency Purchase Affidavit to Purchase a 2023 Ford Escape Hybrid for the Building Management Department

28. **Resolution:** Ratifying an Emergency Purchase Affidavit to Purchase a 2023 Ford Escape Hybrid for the Information Technologies Department

Human Services

1. **Resolution:** Approving the 2024 Holiday Schedule for Kane County Offices

2. **Resolution:** Amending Family Bereavement Leave and Child Extended Bereavement Leave Policy within the Kane County Personnel Policy Handbook

3. **Resolution:** Adopting the Compensation and Position Management Policy within the Kane County Personnel Policy Handbook

Judicial/Public Safety

1. **Resolution:** Authorizing the Re-Appointment of Todd Zies to the Kane County Sheriff's Office Merit Commission

Transportation

1. **Resolution:** Approving a Contract for Purchase of Wetland Mitigation Credits with V3 Wetland Restoration, LLC of Woodridge, Illinois for Bunker Road Extension, Kane County Section No. 14-00275-01-PV

2. **Resolution:** Approving an Amended & Restated Interagency Group Reciprocity Agreement with E-ZPass Interagency Group of Newark, Delaware

----------END OF CONSENT AGENDA ----------

12. Executive Session (If Needed)

13. Committee Reports

14. Public Comment (Non-Agenda Items)

15. Adjournment

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

FINANCE REPORT NO. TMP-23-1317

MONTHLY FINANCE REPORTS (ATTACHED)

Executive Committee Revenue Report - Summary
Through August 31, 2023 (75.0% YTD)

	Current Month Transactions	Total Amended Budget	YTD Actual Transactions	Total % Received
010 County Board	**$ 23,000**	**$ 11,854,374**	**$ 5,765,119**	**48.63%**
001 General Fund	$ -	$ 92,500	$ 112,050	121.14%
120 Grand Victoria Casino Elgin	$ 23,000	$ 5,488,673	$ 4,983,280	90.79%
430 Farmland Preservation	$ -	$ 6,273,201	$ 669,788	10.68%
Grand Total	**$ 23,000**	**$ 11,854,374**	**$ 5,765,119**	**48.63%**

Executive Committee Expenditure Report - Summary
Through August 31, 2023 (75.0% YTD, 73.08% Payroll Expense through Pay Period Ending 08/19/2023)

	Current Month Transactions	Total Amended Budget	YTD Actual Transactions	YTD Encumbrances	Total % Used
010 County Board	**$ 236,017**	**$ 13,212,631**	**$ 4,723,386**	**$ 13,190**	**35.85%**
001 General Fund	$ 170,490	$ 1,450,757	$ 1,090,279	$ -	75.15%
120 Grand Victoria Casino Elgin	$ 40,088	$ 5,488,673	$ 3,493,021	$ 49	63.64%
430 Farmland Preservation	$ 25,439	$ 6,273,201	$ 140,086	$ 13,141	2.44%
Grand Total	**$ 236,017**	**$ 13,212,631**	**$ 4,723,386**	**$ 13,190**	**35.85%**

Executive Committee Expenditure Report - Detail
Through August 31, 2023 (75.0% YTD, 73.08% Payroll Expense through Pay Period Ending 08/19/2023)

	Current Month Transactions	Total Amended Budget	YTD Actual Transactions	YTD Encumbrances	Total % Used
010 County Board	**$ 236,017**	**$ 13,212,631**	**$ 4,723,386**	**$ 13,190**	**35.85%**
001 General Fund	**$ 170,490**	**$ 1,450,757**	**$ 1,090,279**	**$ -**	**75.15%**
Personnel Services- Salaries & Wages	$ 77,214	$ 1,002,558	$ 733,771	$ -	73.19%
Personnel Services- Employee Benefits	$ 31,231	$ 261,524	$ 259,216	$ -	99.12%
Contractual Services	$ 61,803	$ 175,575	$ 87,319	$ -	49.73%
Commodities	$ 242	$ 11,100	$ 9,973	$ -	89.84%
120 Grand Victoria Casino Elgin	**$ 40,088**	**$ 5,488,673**	**$ 3,493,021**	**$ 49**	**63.64%**
Personnel Services- Salaries & Wages	$ 2,001	$ 47,647	$ 36,561	$ -	76.73%
Personnel Services- Employee Benefits	$ 1,253	$ 64,766	$ 25,036	$ -	38.66%
Contractual Services	$ 36,638	$ 1,689,107	$ 749,367	$ 49	44.37%
Commodities	$ 118	$ 6,814	$ 6,679	$ -	98.01%
Transfers Out	$ 78	$ 2,676,614	$ 2,675,380	$ -	99.95%
Contingency and Other	$ -	$ 1,003,725	$ -	$ -	0.00%
430 Farmland Preservation	**$ 25,439**	**$ 6,273,201**	**$ 140,086**	**$ 13,141**	**2.44%**
Personnel Services- Salaries & Wages	$ 9,027	$ 92,079	$ 36,106	$ -	39.21%
Personnel Services- Employee Benefits	$ 896	$ 13,614	$ 4,639	$ -	34.07%
Contractual Services	$ 15,517	$ 400,771	$ 45,700	$ 13,141	14.68%
Transfers Out	$ -	$ 53,641	$ 53,641	$ -	100.00%
Capital	$ -	$ 5,713,096	$ -	$ -	0.00%
Grand Total	**$ 236,017**	**$ 13,212,631**	**$ 4,723,386**	**$ 13,190**	**35.85%**

Executive Accounts Payable by GL Distribution

Payment Date Range 08/01/23 - 08/31/23

Vendor	Invoice No.	Invoice Description	Status	Held Reason	Invoice Date	Due Date	G/L Date	Received Date	Payment Date	Invoice Amount
Fund **001 - General Fund**										
Department **010 - County Board**										
Sub-Department **010 - County Board/Liquor**										
Account **50150 - Contractual/Consulting Services**										
14015 - GovTempsUSA, LLC	4220293	Contract Employee Hours - Ralph Sarbaugh - period end 07/16	Paid by Check # 381976		07/20/2023	08/02/2023	08/02/2023		08/14/2023	8,782.20
14015 - GovTempsUSA, LLC	4211715	Contractual Services - Ralph Sarbaugh period end 07/02	Paid by Check # 381976		07/06/2023	08/02/2023	08/02/2023		08/14/2023	7,433.30
14015 - GovTempsUSA, LLC	4186475	Contract Employee Hours - Ralph Sarbaugh - period end 05/21	Paid by Check # 381976		05/25/2023	08/04/2023	08/04/2023		08/14/2023	9,184.00
14015 - GovTempsUSA, LLC	4170135	Contract Employee Hours - Ralph Sarbaugh - period end 04/16	Paid by Check # 381976		04/27/2023	08/04/2023	08/04/2023		08/14/2023	3,960.00
14015 - GovTempsUSA, LLC	4170136	Contract Employee Hours - Ralph Sarbaugh - period end 04/23	Paid by Check # 381976		04/27/2023	08/04/2023	08/04/2023		08/14/2023	4,534.60
14015 - GovTempsUSA, LLC	4178317	Contract Employee Hours - Ralph Sarbaugh - period end 05/07	Paid by Check # 381976		05/11/2023	08/04/2023	08/04/2023		08/14/2023	43.05
14015 - GovTempsUSA, LLC	4178318	Contract Employee Hours - Ralph Sarbaugh - period end 05/07	Paid by Check # 381976		05/11/2023	08/04/2023	08/04/2023		08/14/2023	8,810.90
14015 - GovTempsUSA, LLC	4186474	Contract Employee Hours - Ralph Sarbaugh - period end 05/21	Paid by Check # 381976		05/25/2023	08/04/2023	08/04/2023		08/14/2023	473.55
14015 - GovTempsUSA, LLC	4228860	Contract Employee Hours - Ralph Sarbaugh - period end 07/30	Paid by Check # 382078		08/03/2023	08/07/2023	08/07/2023		08/28/2023	9,514.05
			Account **50150 - Contractual/Consulting Services** Totals				Invoice Transactions	9		$52,735.65
Account **52140 - Repairs and Maint- Copiers**										
8930 - Impact Networking, LLC	3004823	Contract base rate charge for 07/18/23 - 08/17/23	Paid by EFT # 81754		07/18/2023	08/02/2023	08/02/2023		08/14/2023	46.86
			Account **52140 - Repairs and Maint- Copiers** Totals				Invoice Transactions	1		$46.86

Executive Accounts Payable by GL Distribution

Payment Date Range 08/01/23 - 08/31/23

Vendor	Invoice No.	Invoice Description	Status	Held Reason	Invoice Date	Due Date	G/L Date	Received Date	Payment Date	Invoice Amount
Fund **001 - General Fund**										
Department **010 - County Board**										
Sub-Department **010 - County Board/Liquor**										
Account **53105 - Conferences and Meetings - Board Members**										
4185 - Metro West Council of Government (COG)	5172	Meeting Fee	Paid by EFT # 81798		07/31/2023	08/04/2023	08/04/2023		08/14/2023	180.00
3578 - Warehouse Direct, Inc.	5541590-0	Operating Supplies - Food	Paid by EFT # 81886		07/28/2023	08/02/2023	08/02/2023		08/14/2023	82.79
				Account **53105 - Conferences and Meetings - Board Members** Totals				Invoice Transactions	2	$262.79
Account **53130 - General Association Dues**										
4185 - Metro West Council of Government (COG)	2023-00000803	Association Dues	Paid by EFT # 82085		08/11/2023	08/16/2023	08/16/2023		08/28/2023	250.00
9844 - Northwest Water Planning	20235	Membership Dues 2023 NWPA Dues	Paid by EFT # 82102		05/03/2023	08/16/2023	08/16/2023		08/28/2023	500.00
				Account **53130 - General Association Dues** Totals				Invoice Transactions	2	$750.00
Account **60000 - Office Supplies**										
3578 - Warehouse Direct, Inc.	5512960-0	Office Supplies	Paid by EFT # 81886		06/13/2023	08/04/2023	08/04/2023		08/14/2023	31.10
3578 - Warehouse Direct, Inc.	5548176-0	Office Supplies - Appt Book & Desk Calendar	Paid by EFT # 82198		08/09/2023	08/16/2023	08/16/2023		08/28/2023	31.18
3578 - Warehouse Direct, Inc.	5550184-0	Office Supplies - Granola Bars, Coffee, Nuts	Paid by EFT # 82198		08/11/2023	08/16/2023	08/16/2023		08/28/2023	125.64
				Account **60000 - Office Supplies** Totals				Invoice Transactions	3	$187.92
Account **60010 - Operating Supplies**										
12287 - Century Springs/Ove Water Services	2125478	Water delivery 0714, 0731, Aug Rental Fee	Paid by EFT # 81673		07/31/2023	08/03/2023	08/03/2023		08/14/2023	42.69
3578 - Warehouse Direct, Inc.	5536200-0	Operating Supplies - Forks	Paid by EFT # 81886		07/20/2023	08/02/2023	08/02/2023		08/14/2023	11.25
				Account **60010 - Operating Supplies** Totals				Invoice Transactions	2	$53.94
				Sub-Department **010 - County Board/Liquor** Totals				Invoice Transactions	19	$54,037.16
				Department **010 - County Board** Totals				Invoice Transactions	19	$54,037.16
				Fund **001 - General Fund** Totals				Invoice Transactions	19	$54,037.16
Fund **120 - Grand Victoria Casino Elgin**										
Department **010 - County Board**										
Sub-Department **020 - Riverboat**										
Account **53010 - Workers Compensation**										
13667 - Old Republic-MN ARP	57023	Workers' Comp & Liability Ins Renewal WCMN000864902	Paid by Check # 382108		08/07/2023	08/15/2023	08/18/2023		08/28/2023	15.20
				Account **53010 - Workers Compensation** Totals				Invoice Transactions	1	$15.20
Account **55010 - External Grants**										
13586 - Big Rock Plowing Match Association	2215-01	Kenny Field Lighting Improvements	Paid by EFT # 81658		07/23/2023	08/02/2023	08/04/2023		08/14/2023	13,409.58

Executive Accounts Payable by GL Distribution

Payment Date Range 08/01/23 - 08/31/23

Vendor	Invoice No.	Invoice Description	Status	Held Reason	Invoice Date	Due Date	G/L Date	Received Date	Payment Date	Invoice Amount
Fund **120 - Grand Victoria Casino Elgin**										
Department **010 - County Board**										
Sub-Department **020 - Riverboat**										
Account **55010 - External Grants**										
5652 - Girl Scouts of Northern Illinois	2225-01	MakerSpace - Equipment, Furnishings, ADA RR, HVAC, Epoxy Flr	Paid by Check # 381975		07/10/2023	08/02/2023	08/04/2023		08/14/2023	20,000.00
3920 - Literacy Volunteers Fox Valley	2229-02	Program Coordinator Salary	Paid by EFT # 81788		07/20/2023	08/02/2023	08/04/2023		08/14/2023	2,932.44
				Account **55010 - External Grants** Totals				Invoice Transactions	3	$36,342.02
Account **60000 - Office Supplies**										
4526 - Fifth Third Bank	1589-SB-07/23	OCR P-CARD	Paid by EFT # 82014		08/04/2023	08/15/2023	08/18/2023		08/28/2023	93.24
				Account **60000 - Office Supplies** Totals				Invoice Transactions	1	$93.24
				Sub-Department **020 - Riverboat** Totals				Invoice Transactions	5	$36,450.46
				Department **010 - County Board** Totals				Invoice Transactions	5	$36,450.46
				Fund **120 - Grand Victoria Casino Elgin** Totals				Invoice Transactions	5	$36,450.46
Fund **430 - Farmland Preservation**										
Department **010 - County Board**										
Sub-Department **021 - Farmland Preservation**										
Account **50150 - Contractual/Consulting Services**										
13614 - JADE Hanna Surveyors	29631	SURVEYING SERVICES - WINTERS RD. VIRGIL TOWNSHIP	Paid by Check # 381983		04/19/2023	08/04/2023	08/04/2023		08/14/2023	2,400.00
13614 - JADE Hanna Surveyors	29627	SURVEYING SERVICES - LASHER RD. KANEVILLE TOWNSHIP	Paid by Check # 381983		04/17/2023	08/04/2023	08/04/2023		08/14/2023	4,800.00
12891 - Special Project Staffing dba The Salem Group	4218540	TEMPORARY STAFFING - ROBERT TRZASKUS	Paid by EFT # 81853		07/20/2023	07/24/2023	07/24/2023		08/14/2023	315.00
12891 - Special Project Staffing dba The Salem Group	4218542	TEMPORARY STAFFING - ALAINA LAWRENCE	Paid by EFT # 81853		07/20/2023	07/24/2023	07/24/2023		08/14/2023	252.00
12891 - Special Project Staffing dba The Salem Group	4222766	TEMPORARY STAFFING - ROBERT TRZASKUS	Paid by EFT # 81853		07/27/2023	08/04/2023	08/04/2023		08/14/2023	315.00
12891 - Special Project Staffing dba The Salem Group	4222768	TEMPORARY STAFFING - ALAINA LAWRENCE	Paid by EFT # 81853		07/27/2023	08/04/2023	08/04/2023		08/14/2023	315.00
12891 - Special Project Staffing dba The Salem Group	4201294	TEMPORARY STAFFING - ROBERT TRZASKUS	Paid by EFT # 82162		06/22/2023	08/18/2023	08/18/2023		08/28/2023	315.00
12891 - Special Project Staffing dba The Salem Group	4227098	TEMPORARY STAFFING - ROBERT TRZASKUS	Paid by EFT # 82162		08/03/2023	08/18/2023	08/18/2023		08/28/2023	315.00
12891 - Special Project Staffing dba The Salem Group	4227100	TEMPORARY STAFFING - ALAINA LAWRENCE	Paid by EFT # 82162		08/03/2023	08/18/2023	08/18/2023		08/28/2023	315.00
12891 - Special Project Staffing dba The Salem Group	4231383	TEMPORARY STAFFING - ROBERT TRZASKUS	Paid by EFT # 82162		08/10/2023	08/18/2023	08/18/2023		08/28/2023	315.00

Executive Accounts Payable by GL Distribution

Payment Date Range 08/01/23 - 08/31/23

Vendor	Invoice No.	Invoice Description	Status	Held Reason	Invoice Date	Due Date	G/L Date	Received Date	Payment Date	Invoice Amount
Fund **430 - Farmland Preservation**										
Department **010 - County Board**										
Sub-Department **021 - Farmland Preservation**										
Account **50150 - Contractual/Consulting Services**										
12891 - Special Project Staffing dba The Salem Group	4231385	TEMPORARY STAFFING - ALAINA LAWRENCE	Paid by EFT # 82162		08/10/2023	08/18/2023	08/18/2023		08/28/2023	252.00
Account **50150 - Contractual/Consulting Services** Totals								Invoice Transactions	11	$9,909.00
Account **53100 - Conferences and Meetings**										
4526 - Fifth Third Bank	1843-JH-07/23	J. HILL P-CARD CHARGES 7/2023	Paid by EFT # 82014		08/04/2023	08/18/2023	08/18/2023		08/28/2023	774.50
Account **53100 - Conferences and Meetings** Totals								Invoice Transactions	1	$774.50
Sub-Department **021 - Farmland Preservation** Totals								Invoice Transactions	12	$10,683.50
Department **010 - County Board** Totals								Invoice Transactions	12	$10,683.50
Fund **430 - Farmland Preservation** Totals								Invoice Transactions	12	$10,683.50
Grand Totals								Invoice Transactions	36	$101,171.12

Kane County Purchasing Card Information
Executive Committee
August 2023 Statement

Total all:

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1311

AUTHORIZING THE USE OF STATE AND LOCAL FISCAL RECOVERY FUNDS TO FUND AN ACCESS CONTROL PROGRAM FOR THE KANE COUNTY BUILDING MANAGEMENT DEPARTMENT

WHEREAS, the Congress of the United States has enacted the American Rescue Plan Act of 2021 ("ARPA") to provide economic relief to State, Local, and Tribal governments responding to economic and public health impacts of the COVID-19 pandemic; and

WHEREAS, the County of Kane has received a total of $103,413,041 (One Hundred Three Million, Four Hundred Thirteen Thousand, Forty-One Dollars) from the United States Department of the Treasury, in State and Local Fiscal Recovery Funds ("SLFRF") pursuant to ARPA, and

WHEREAS, pursuant to ARPA and the administrative regulations adopted by the United States Department of the Treasury ("Final Rule"), the County of Kane shall use SLFRF to defray costs associated with its response to the COVID-19 pandemic within the County, to address the economic fallout from the pandemic, and lay the foundation for a strong and equitable recovery; and

WHEREAS, by Resolution 21-313, the Kane County Board has established the American Rescue Plan Committee ("ARPC") as a resource for research, education, planning, and recommendations for the best allocation and uses of the County's SLFRF; and

WHEREAS, by Resolution 21-156, the Kane County Board approved the recommended Spending Plan as proposed by the ARPC, which designates $42,000,000 (Forty-Two Million Dollars) to be used for Kane County Department and Elected Office project requests; and

WHEREAS, the Kane County Building Management Department has made a request in the amount of $700,000 (Seven Hundred Thousand dollars) of SLFRF to fund an Access Control Program for the purpose COVID-19 Contact Tracing and Public Sector Capacity Administrative Needs; and

WHEREAS, an Access Control Program will support the County's ability to conduct contact tracing in the event of an outbreak, will assist the County as needed to be able to identify who had been in contact with each other, and provide reporting of who accessed each facility at each time to defray the additional administration associated with contact tracing; and

WHEREAS, to assist the County in determining whether the project is an eligible use of SLFRF under ARPA, the Final Rule, and the related guidance issued by the United States Department of the Treasury, the ARPC consultant, Ernst and Young, has reviewed the Kane

County Building Management's request for SLFRF for a Access Control Program for the purpose of COVID-19 Contact Tracing and Public Sector Capacity Administrative Needs and completed an assessment regarding the project's eligibility under the United States Department of Treasury's Rules and Guidelines, Section EC-3: Public Health-Negative Economic Impact: Public Sector, EC-Subcategory 3.4 (see Exhibit A); and

WHEREAS, the ARPC recommends that the Kane County Board authorizes the use SLFRF in the amount of $700,000 (Seven Hundred Thousand dollars) to fund the Access Control Program for the Kane County Building Management, to be spent during the ARPA period of performance and in accordance with the ARPA, the Final Rule and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board the Kane County Board hereby authorizes the Kane County Building Management's use of State and Local Fiscal Recovery Funds in the amount of $700,000 (Seven Hundred Thousand dollars) to be used for an Access Control Program, in accordance with the American Rescue Plan Act of 2021, the Final Rule, and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

$94,110	Transfer to Fund 500	355.800.66813.99500
($94,110)	Allowance for Budget Expense	355.800.668.85000
$94,110	Transfer from Fund 355	500.800.000.39355
$94,110	Addition to Fund Balance	500.800.805.89000
$150,000	Special Purpose Equipment	355.800.66813.70120
($150,000)	Allowance for Budget Expense	355.800.668.85000

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Kane County Board that the remaining grant funding will be budgeted in FY24 ($300,000) and FY25 ($155,890).

Line Item: See above
Line Item Description: See above
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? No
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available?
See Above

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing the Use of State and Local Fiscal Recovery Funds to Fund an Access Control Program for the Kane County Building Management Department

Committee Flow:
American Rescue Plan Committee, Executive Committee, County Board

Contact:
Jarett Sanchez, 630.444.1224

Budget Information:

Was this item budgeted? No	Appropriation Amount: $700,000.00
If not budgeted, explain funding source: 355.800.66813.70120	

Summary:

This resolution authorizes the Kane County Building Management's use of State and Local Fiscal Recovery Funds in the amount of $700,000 (Seven Hundred Thousand dollars) to be used for an Access Control Program, in accordance with the American Rescue Plan Act of 2021, the Final Rule, and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

A **Proposed Program Name**

Kane County Government - Access Control Program

B **Proposed Program Summary**

Develop and implement a county wide access control program. This would include a master lock and key schedule to get all buildings on one lock hardware system as well as on proximity card access system.

Questions:

1. Can you please explain how implementing a new access control program will help the County respond to the pandemic?

Limiting Physical Interactions: By implementing an access control program, the County will have a central location and database for addressing access to facilities and will be able to better manage and restrict physical access to buildings, and rooms. This will help reduce the number of people entering and exiting these spaces, minimizing the risk of virus transmission. The program will ensure that only authorized personnel have access to specific areas, reducing unnecessary contact and interactions.

Track and Trace: Modern access control systems often include features that allow administrators to track who enters and exits specific areas and at what times. This data will be valuable for contact tracing efforts in case a COVID-19 exposure occurs. If someone who tested positive for the virus has accessed a particular location, the County will be capable of identifying potential contacts and take appropriate measures to mitigate the spread.

Customized Access Levels: Access control systems will be configured to provide different levels of access to different personnel based on their roles and responsibilities. This will help enforce social distancing measures by limiting access to certain areas to only those who truly need to be there. For instance, administrative staff might not need access to the same areas as frontline workers, reducing congestion and interactions.

Flexibility and Adaptability: Access control programs will be adjusted and adapted quickly as pandemic conditions change and will allow for restricting access to spaces at remote facilities. If there's a need to tighten restrictions or grant temporary access to specific individuals (such as for maintenance purposes), the system will be updated accordingly.

Enhanced Safety Measures: Access control systems will be used to monitor and control access to critical infrastructure. By limiting access to authorized personnel only, the County will prevent unauthorized individuals from tampering with or compromising critical systems. This will help maintain the functionality of vital services, especially during times of crisis.

2.A. Would the new access control program provide protection of critical infrastructure such a treatment works?

Yes, the new access control program will provide protection to critical infrastructure like treatment works. By limiting access to authorized personnel, the program will prevent unauthorized individuals from tampering with equipment or systems that are essential for public health and safety.

2.B Will the locks and access cards strengthen cybersecurity?

Access control programs that use modern technology, such as access cards and electronic locks, will contribute to cybersecurity efforts. They will help ensure that only authorized individuals can access sensitive areas or equipment, reducing the risk of unauthorized individuals gaining physical access and potentially compromising cybersecurity measures.

3. What types of buildings/rooms will these locks restrict access to?

The locks and access control system will restrict access to a variety of buildings and rooms, It will provide assurance of entrance into the space, as it would allow us to remove hard key access to the space outside of emergency situation, including government offices, medical facilities, emergency response centers, storage rooms for medical supplies, points of access into the facilities, and any other areas deemed necessary for pandemic response and control.

4. How will this program address equitable outcomes?

To ensure equitable outcomes, the access control program will be implemented with considerations for fairness and accessibility. Implementation of this system will allow for ADA access through the card for needed users. The access control policies will be transparent and communicated clearly to all personnel. Special attention will be given to avoid discriminatory practices and ensure that essential workers and support staff have appropriate access to the areas they require to carry out their duties effectively. Additionally, any digital components of the system will be designed with accessibility in mind, ensuring that all authorized personnel will be able to use the system regardless of their abilities.

C **Proposed Program Risk Considerations and Requirements Summary**

Access Control systems may be eligible as a techonological system to support the County's ability to conduct contact tracing in the event of an outbreak. It could also be eligible as an increased administrative burden incurred as a result of the pandemic. Due to the pandemic the County needed to be able to identify who had been in contact with each other. Being able to pull a report of who accessed each facility at each time would defray the additional administration associated with contact tracing.

D **Program Assessment Details**

Complete the below Program Assessment Checklist. For instructions/guidance on using the below checklist please see the User Guide

D.1	Select the appropriate broad SLFRF category applicable to this project	Providing government services to the extent of revenue loss due to the pandemic
D.2	Select SLFRF Expenditure Category	EC1
D.3	SLFRF Expenditure Category Description	1: Public Health
D.4	Select SLFRF Expenditure Subcategory	1.3 COVID-19 Contact Tracing^
D.5	Additional SLFRF Expenditure Categories for consideration	3.5 Public Sector Capacity: Administrative Needs

D.6	Comments regarding additional SLFRF Expenditure Categories	Access Control would simplify the County's maintenance of access control and locks.
D.7	Are the beneficiaries Populations Presumed Eligible?	Not Applicable
D.8	Which Populations Presumed Eligible does the proposed program intend to serve?	Not Applicable
D.9	Is the Populations Presumed Eligible analysis conducted on each applicant or based on geographic area(s)?	Not Applicable
D.10	Is the proposed project related to an industry other than Tourism, Travel, or Hospitality?	Not Applicable
D.11	Is the proposed project an enumerated use?	No
D.12	Does the proposed project include subrecipients/beneficiaries?	Not Applicable
D.13	What is the estimated number of subrecipients/beneficiaries?	N/A
D.14	Will the County be using a partner/subrecipient to administer the program?	No
D.15	Will the proposed program require funding beyond the eligible period of ARPA SLFRF funds?	No
D.16	Estimated ongoing costs beyond ARPA SLFRF eligibility period	N/A
D.17	Is the proposed project/expenditure solely related to ARPA SLFRF eligible uses?	Yes
D.18	Percentage of project estimated to be ARPA SLFRF eligible	100%
D.19	Does the proposed project include capital expenditures	Yes
D.20	Is the capital expenditure an enumerated use (Select One)	No - the proposed capital expenditure is not an enumerated use
D.21	Select the appropriate range of expected capital expenditures	Less than $1 million
D.22	Is a Written Justification Required	No
D.23	Does the project include required programmatic data	Yes
D.24	Does the application indicate the program is designed to address equitable outcomes?	Yes

E **ARPA SLFRF Eligible Cost Category Designation - Items D.1 through D.6**

Access Control systems may be eligible as a technological system to support the County's ability to conduct contact tracing in the event of an outbreak. It could also be eligible as an increased administrative burden incurred as a result of the pandemic. Due to the pandemic the County needed to be able to identify who had been in contact with each other. Being able to pull a report of who accessed each facility at each time would defray the additional administration associated with contact tracing.

1.3: Covid-19 Contact Tracing

• "(A) COVID–19 mitigation and prevention in a manner that is consistent with recommendations and guidance from the Centers for Disease Control and Prevention, including vaccination programs and incentives; testing programs; contact tracing; isolation and quarantine; mitigation and prevention practices in congregate settings;" (pg. 4449)

3.5: Public Sector Capacity Administrative Needs

• "Technology infrastructure resources to improve access to and the user experience of government information technology systems, including upgrades to hardware and software as well as improvements to public-facing websites or to data management systems, to increase public access and improve public delivery of government programs and services (including in the judicial, legislative, or executive branches)." (P. 4388)

•"This also includes using funds for increased repair or maintenance needs to respond to significantly greater use of public facilities during the pandemic (e.g., increased use of parks resulting in damage or increased need for maintenance)." (P. 4388-4389)

•“The final rule maintains the interim final rule’s provision that allows for broader modernization of cybersecurity, including hardware, software, and protection of critical infrastructure as an eligible provision of government services, to the extent of revenue loss due to the pandemic, under sections 602(c)(1)(C) and 603(c)(1)(C).” (P. 4422)

•“Treasury highlights that recipients are subject to the prohibition on use of grant funds to procure or obtain certain telecommunications and video surveillance services or equipment as outlined in 2 CFR 200.216 and 2 CFR 200.471 and clarifies that modernization of cybersecurity for existing and new broadband networks are eligible uses of funds under sections 602(c)(1)(D) and 603(c)(1)(D).” (P.4418)

F **ARPA SLFRF Eligibility Justification Requirements - Necessary with Item D.11 is marked "No"**

F.1 **Designating a Public Health Impact**

The Access Control program would enable the County to respond to a potential outbreak at a government facility.

F.1a **Guidance: See Final Rule, 87 Fed Reg 4343.** There must be a negative public health impact or harm experienced by an individual or a class. For ease of administration, the interim final rule allowed, and the final rule maintains the ability for, recipients to identify a public health impact on a population or group of individuals, referred to as a ''class,'' and to provide assistance to that class.

F.2 **Designating a Negative Economic Impact**

N/A

F.2a **Guidance: See Final Rule, 87 Fed Reg 4343.** First, there must be a negative economic impact, or an economic harm, experienced by an individual or a class. The recipient should assess whether, and the extent to which, there has been an economic harm, such as loss of earnings or revenue, that resulted from the COVID–19 public health emergency. A recipient should first consider whether an economic harm exists and then whether this harm was caused or made worse by the COVID–19 public health emergency. Second, the response must be designed to address the identified economic harm or impact resulting from or exacerbated by the public health emergency. In selecting responses, the recipient must assess whether, and the extent to which, the use would respond to or address this harm or impact.

F.3 **Description of how proposed program addresses/responds to harm and is reasonable**

Limiting Physical Interactions: By implementing an access control program, the County will have a central location and database for addressing access to facilities and will be able to better manage and restrict physical access to buildings, and rooms. This will help reduce the number of people entering and exiting these spaces, minimizing the risk of virus transmission. The program will ensure that only authorized personnel have access to specific areas, reducing unnecessary contact and interactions.

Track and Trace: Modern access control systems often include features that allow administrators to track who enters and exits specific areas and at what times. This data will be valuable for contact tracing efforts in case a COVID-19 exposure occurs. If someone who tested positive for the virus has accessed a particular location, the County will be capable of identifying potential contacts and take appropriate measures to mitigate the spread.

Customized Access Levels: Access control systems will be configured to provide different levels of access to different personnel based on their roles and responsibilities. This will help enforce social distancing measures by limiting access to certain areas to only those who truly need to be there. For instance, administrative staff might not need access to the same areas as frontline workers, reducing congestion and interactions.

Flexibility and Adaptability: Access control programs will be adjusted and adapted quickly as pandemic conditions change and will allow for restricting access to spaces at remote facilities. If there's a need to tighten restrictions or grant temporary access to specific individuals (such as for maintenance purposes), the system will be updated accordingly.

Enhanced Safety Measures: Access control systems will be used to monitor and control access to critical infrastructure. By limiting access to authorized personnel only, the County will prevent unauthorized individuals from tampering with or compromising critical systems. This will help maintain the functionality of vital services, especially during times of crisis.

F.3a **Guidance: See Final Rule, 87 Fed Reg 4343.** The program, service, or other intervention must address or respond to the identified impact or harm. The final rule maintains the interim final rule requirement that eligible uses under this category must be in response to the disease itself or other public health harms that it caused Responses must be reasonably designed to benefit the individual or class that experienced the public health impact or harm. Uses of funds should be assessed based on their responsiveness to their intended beneficiaries and the ability of the response to address the impact or harm experienced by those beneficiaries Responses must also be related and reasonably proportional to the extent and type of public health impact or harm experienced. Uses that bear no relation or are grossly disproportionate to the type or extent of harm experienced would not be eligible uses.

F.4 **Assessment of whether identified industry is eligible**

N/A

F.4a **Guidance: See Final Rule, 87 Fed Reg 4382.** Simplified test. An industry is presumed to be impacted if the industry experienced employment loss of at least 8 percent. Specifically, a recipient should compare the percent change in the number of employees of the recipient's identified industry and the national Leisure & Hospitality sector in the three months before the pandemic's most severe impacts began (a straight three-month average of seasonally-adjusted employment data from December 2019, January 2020, and February 2020) with the latest data as of the final rule release (a straight three-month average of seasonally-adjusted employment data from September 2021, October 2021, and November 2021).

If an industry does not satisfy the test above or data are unavailable, the recipient may still designate the industry as impacted by demonstrating the following: the recipient can show that the totality of relevant major economic indicators demonstrate that the industry is experiencing comparable or worse economic impacts as the national tourism, travel, and hospitality industries at the time of the publication of the final rule, and that the impacts were generally due to the COVID–19 public health emergency. Recipients may rely on available economic data, government research publications, research from academic sources, and other quantitative sources for this determination. If quantitative data is unavailable, the recipient can rely on qualitative data to show that the industry is experiencing comparable or worse economic impacts as the national tourism, travel, and hospitality industries, and the impacts were generally due to the COVID–19 public health emergency. Recipients may rely on sources like community interviews, surveys, and research from relevant state and local government agencies

G **Capital Expenditure Evaluations - Complete if Item D.21 is marked as "Between $1 m and $10 m" or "Over 10 m"**

G.1 ***1. Description of harm or need to be addressed***

N/A

G.1a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should provide a description of the specific harm or need to be addressed, and why the harm was exacerbated or caused by the public health emergency. When appropriate, recipients may provide quantitative information on the extent and type of the harm, such as the number of individuals or entities affected.

G.2 ***2. Explanation of why a capital expenditure is appropriate***

N/A

G.2a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should provide an independent assessment demonstrating why a capital expenditure is appropriate to address the specified harm or need. This should include an explanation of why existing capital equipment, property, or facilities would be inadequate to addressing the harm or need and why policy changes or additional funding to pertinent programs or services would be insufficient without the corresponding capital expenditures. Recipients are not required to demonstrate that the harm or need would be irremediable but for the additional capital expenditure; rather, they may show that other interventions would be inefficient, costly, or otherwise not reasonably designed to remedy the harm without additional capital expenditure.

3. Comparison of the proposed capital expenditure against alternative capital expenditures

G.3 a. A comparison of the effectiveness of the capital expenditures in addressing the harm identified

N/A

G.3a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should generally consider the effectiveness of the capital expenditures in addressing the harm over the useful life of the capital asset and may consider metrics such as the number of impacted or disproportionately impacted individuals or entities served, when such individuals or entities are estimated to be served, the relative time horizons of the project, and consideration of any uncertainties or risks involved with the capital expenditure.

G.4 b. A comparison of the expected total cost of the capital expenditures

N/A

G.4a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should consider the expected total cost of the capital expenditure required to construct, purchase, install, or improve the capital assets intended to address the public health or negative economic impact of the public health emergency. Recipients should include pre-development costs in their calculation and may choose to include information on ongoing operational costs, although this information is not required.

H **Equitable Outcomes - Complete it item D.24 is populated with "Yes".**

H.1 **Description of equitable outcome goal and how the proposed program expects to achieve this goal**

To ensure equitable outcomes, the access control program will be implemented with considerations for fairness and accessibility. Implementation of this system will allow for ADA access through the card for needed users. The access control policies will be transparent and communicated clearly to all personnel. Special attention will be given to avoid discriminatory practices and ensure that essential workers and support staff have appropriate access to the areas they require to carry out their duties effectively. Additionally, any digital components of the system will be designed with accessibility in mind, ensuring that all authorized personnel will be able to use the system regardless of their abilities.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1313

AUTHORIZING THE USE OF STATE AND LOCAL FISCAL RECOVERY FUNDS TO FUND THE KANE COUNTY MANUFACTURING AND SUSTAINABILITY FUND FOR THE KANE COUNTY DEVELOPMENT AND COMMUNITY SERVICES DEPARTMENT

WHEREAS, the Congress of the United States has enacted the American Rescue Plan Act of 2021 ("ARPA") to provide economic relief to State, Local, and Tribal governments responding to economic and public health impacts of the COVID-19 pandemic; and

WHEREAS, the County of Kane has received a total of $103,413,041 (One Hundred Three Million, Four Hundred Thirteen Thousand, Forty-One Dollars) from the United States Department of the Treasury, in State and Local Fiscal Recovery Funds ("SLFRF") pursuant to ARPA, and

WHEREAS, pursuant to ARPA and the administrative regulations adopted by the United States Department of the Treasury ("Final Rule"), the County of Kane shall use SLFRF to defray costs associated with its response to the COVID-19 pandemic within the County, to address the economic fallout from the pandemic, and lay the foundation for a strong and equitable recovery; and

WHEREAS, by Resolution 21-313, the Kane County Board has established the American Rescue Plan Committee ("ARPC") as a resource for research, education, planning, and recommendations for the best allocation and uses of the County's SLFRF; and

WHEREAS, by Resolution 21-156, the Kane County Board approved the recommended Spending Plan as proposed by the ARPC, which designates $42,000,000 (Forty-Two Million Dollars) to be used for Kane County Department and Elected Office project requests; and

WHEREAS, the Kane County Development and Community Services Department has made a request in the amount of $1,040,000 (One Million Forty-Thousand Dollars) of SLFRF to fund Kane County Manufacturing and Sustainability Fund for the purpose of responding to the COVID-19 public emergency or its negative economic impacts; and

WHEREAS, the Kane County Kane County Manufacturing Sustainability and Recovery Fund will provide additional financial assistance for Kane County manufacturers to receive supports for recovery from COVID-19, develop practices for economic sustainability, and increase their competitive advantage. Manufacturers located in Kane County which apply for, and are given, technical assessments from the Illinois Manufacturing Excellence Center (IMEC), would be eligible for an additional $25,000 from Kane County to reimburse eligible expenses associated for implementing recommendations by IMEC to improve, alter and add

value to their business. All manufacturers located in Kane County which receive assessments from IMEC, which qualify as small businesses under the ARPA SLFRF definition, and can demonstrate a public health or economic harm are eligible. As part of the services it offers, IMEC (Illinois Manufacturing Excellence Center) provides small and mid-sized manufacturers (SMMs) in Illinois technical assistance and expertise to solve many issues they face in the COVID-19 era. This fund is designed to remove the various hurdles in funding and know-how so SMMs can recovery from COVID-19 setbacks and embrace new technologies in their products and processes for a sustainable future; and

WHEREAS, the Development and Community Services Department seeks to partner with IMEC to administer this project; and

WHEREAS, IMEC is the U.S. Department of Commerce NIST Manufacturing Extension Partnership Center for Illinois. IMEC assists Illinois manufacturers through its technical assistance and support services. IMEC is a team of improvement specialists dedicated to providing manufacturers in Illinois with the tools and techniques to excel and compete globally. In 2022 alone, IMEC assisted over 1,900 manufacturers and worked with its extensive ecosystem of partners, ranging from manufacturing associations to economic development centers and workforce boards, to ensure manufacturers had the resources and technical assistance they required.; and

WHEREAS, to assist the County in determining whether the project is an eligible use of SLFRF under ARPA, the Final Rule, and the related guidance issued by the United States Department of the Treasury, the ARPC consultant, Ernst and Young, has reviewed the Kane County Development and Community Services Department's request for SLFRF for Kane County Manufacturing and Sustainability Fund for the purpose of responding to the COVID-19 public emergency or its negative economic impacts and completed an assessment regarding the project's eligibility under the U.S. Department of Treasury's Rules and regulations, Section EC-1: Public Health, EC Subcategory 1.8 (see Exhibit A); and

WHEREAS, the ARPC recommends that the Kane County Board authorizes the use SLFRF in the amount of $1,040,000 (One Million Forty-Thousand Dollars) to fund the Kane County Manufacturing and Sustainability Fund for the Kane County Development and Community Services Department, to be spent during the ARPA period of performance and in accordance with the ARPA, the Final Rule and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board hereby authorizes the Kane County Development and Community Services Department use of State and Local Fiscal Recovery Funds in the amount of $1,040,000 (One Million Forty-Thousand Dollars) to be used for the Kane County Manufacturing and Sustainability Fund, in accordance with the American Rescue Plan Act of 2021, the Final Rule, and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Kane County Board that the Kane County Board Chairman is authorized to execute a grant agreement with Illinois Manufacturing Excellence Center in the amount of $1,040,000 (One Million and Forty Dollars) of SLFRF, based on the proposal attached as Exhibit B , to be distributed in accordance with the terms established pursuant to the grant agreement attached as Exhibit C, with final form of each respective grant agreement subject to approval by the State's Attorney's Office. The general ledger account for the Fiscal Year 2024 budget will be 355.800.668.85000 Allowance for Budget Expense.

FY2024	$600,000	Lighthouse Manufacturing (20 companies @ $30,000 each)
FY2024	$400,000	Expanding Talent Pipelines (Events, assessment & technical assistance vouchers)
FY2024	$40,000	Program Outreach and Administration (Administration)

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing the Use of State and Local Fiscal Recovery Funds to Fund the Kane County Manufacturing and Sustainability Fund for the Kane County Development and Community Services Department

Committee Flow:
American Rescue Plan Committee, Executive Committee, County Board

Contact:
Jarett Sanchez, 630.444.1224

Budget Information:

Was this item budgeted? N/A	Appropriation Amount: $1,040,000
If not budgeted, explain funding source: Various Accounts	

Summary:

This resolution authorizes the Kane County Development and Community Services Department use of State and Local Fiscal Recovery Funds in the amount of $1,040,000 (One Million Forty-Thousand Dollars) to be used for the Kane County Manufacturing and Sustainability Fund, in accordance with the American Rescue Plan Act of 2021, the Final Rule, and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

A **Proposed Program Name**

Kane County Manufacturing Recovery and Sustainability Fund

B **Proposed Program Summary**

The Kane County Kane County Manufacturing Sustainability and Recovery Fund will provide additional financial assistance for Kane County manufacturers to receive supports for recovery from COVID-19, develop practices for economic sustainability, and increase their competitive advantage. Manufacturers located in Kane County which apply for, and are given, technical assessments from the Illinois Manufacturing Excellence Center (IMEC), would be eligible for an additional $25,000 from Kane County to reimburse eligible expenses associated for implementing recommendations by IMEC to improve, alter and add value to their business. All manufacturers located in Kane County which receive assessments from IMEC, which qualify as small businesses under the ARPA SLFRF definition, and can demonstrate a public health or economic harm are eligible.

As part of the services it offers, IMEC (Illinois Manufacturing Excellence Center) provides small and mid-sized manufacturers (SMMs) in Illinois technical assistance and expertise to solve many issues they face in the COVID-19 era. This fund is designed to remove the various hurdles in funding and know-how so SMMs can recovery from COVID-19 setbacks and embrace new technologies in their products and processes for a sustainable future.

C **Proposed Program Risk Considerations and Requirements Summary**

The Kane County Manufacturing Recovery and Sustainability Fund (the Program) is a program designed to provide funding for an enumerated use for Small Business Assistance. As such, specific analysis to identify the negative economic impact for the industry is not required as it is presumed that small businesses were negatively impacts by the COVID-19 pandemic in Treasury's guidance. The risk that this program would not be accepted as an allowable use of SLFRF is low. The Program may be eligible under expenditure category EC 1.8 - Small Business Assistance.

The inclusion of IMEC as a subrecipient passthrough entity presents an increased risk as compared to the County administering the program directly. The County will be responsible for monitoring IMEC "to ensure that the subaward is used for authorized purposes, in compliance with Federal statutes, regulations, and the terms and conditions of the subaward; and that subaward performance goals are achieved." (2 CFR The County is aware that IMEC is administering a similar program for McHenry County. The County should mitigate this increased risk by entering into a subrecipient agreement with IMEC that includes all relevant terms and conditions required for subrecipients required by 2 CFR 200, including the ability for the County to recoup miss-spent funds; requiring IMEC to report results on at least a quarterly basis (to facility the County in meeting its reporting requirements to Treasury); and developing and implementing monitoring procedures over IMEC's program. To further mitigate the County's risk, the County should consider specifying requirements for IMEC's program in the subrecipient agreement to ensure that the design of the IMEC program is compliant with ARPA SLFRF requirements and the County's goals for the program.

Other considerations: None. The Program is not expected to result in any ongoing expenses beyond the ARPA SLFRF expenditure period. Further, the Program does not currently contemplate capital expenditures. If capital expenditures are included as an eligible use of funds during Program implementation, this risk assessment should be updated to complete the capital expenditures analysis below.

Note: The Program may also be eligible under expenditure category EC 2.30 Technical Assistance, Counseling, or Business Planning. Program may also be eligible under expenditure category EC 2.37 Economic Impact Assistance: Other. This election would be necessary to include SMMs in the program who do not qualify as a small business. If such an election is made, this assessment would need to be re-performed and additional documentation regarding the County's identification of the negative economic impact and designation of the Manufacturing industry as an impacted industry would be required.

D **Program Assessment Details**

Complete the below Program Assessment Checklist. For instructions/guidance on using the below checklist please see the User Guide

D.1	Select the appropriate broad SLFRF category applicable to this project	Responding to the public health and negative economic impacts of the pandemic
D.2	Select SLFRF Expenditure Category	EC1
D.3	SLFRF Expenditure Category Description	1: Public Health
D.4	Select SLFRF Expenditure Subcategory	1.8 COVID-19 Assistance to Small Businesses^
D.5	Additional SLFRF Expenditure Categories for consideration	EC 2.3 - Technical Assistance, Counseling, or Business Planning
D.6	Comments regarding additional SLFRF Expenditure Categories	If the County determines that the program is intended to address a Negative Economic Impact instead of an public health impact, EC 2.3 would be the more appropriate selection.
D.7	Are the beneficiaries Populations Presumed Eligible?	Not Applicable
D.8	Which Populations Presumed Eligible does the proposed program intend to serve?	Not Applicable

D.9	Is the Populations Presumed Eligible analysis conducted on each applicant or based on geographic area(s)?	Not Applicable
D.10	Is the proposed project related to an industry other than Tourism, Travel, or Hospitality?	Yes
D.11	Is the proposed project an enumerated use?	Yes
D.12	Does the proposed project include subrecipients/beneficiaries?	Yes
D.13	What is the estimated number of subrecipients/beneficiaries?	30-40
D.14	Will the County be using a partner/subrecipient to administer the program?	Yes
D.15	Will the proposed program require funding beyond the eligible period of ARPA SLFRF funds?	No
D.16	Estimated ongoing costs beyond ARPA SLFRF eligibility period	Not Applicable
D.17	Is the proposed project/expenditure solely related to ARPA SLFRF eligible uses?	Yes
D.18	Percentage of project estimated to be ARPA SLFRF eligible	Not Applicable
D.19	Does the proposed project include capital expenditures	No
D.20	Is the capital expenditure an enumerated use (Select One)	Not Applicable
D.21	Select the appropriate range of expected capital expenditures	Not Applicable
D.22	Is a Written Justification Required	Not Applicable
D.23	Does the project include required programmatic data	Yes
D.24	Does the application indicate the program is designed to address equitable outcomes?	Yes

E	**ARPA SLFRF Eligible Cost Category Designation - Items 1 through 6**
	Per review of the Proposed Program Summary and analysis of the Treasury's final rule (Final Rule, 87 Fed Reg 4338 - 4454), the Kane County Manufacturing Recovery and Sustainability Fund may be eligible under expenditure category EC 1.8 - Small Business Assistance. Specifically, the final rule provided that recipients may provide assistance to small businesses to adopt safer operating procedures, weather periods of closure, or mitigate financial hardship resulting from the COVID–19 public health emergency, including: • Loans or grants to mitigate financial hardship such as declines in revenues or impacts of periods of business closure; • Loans, grants, or in-kind assistance to implement COVID–19 prevention or mitigation tactics; and • Technical assistance, counseling, or other services to assist with business planning needs (emphasis added). (See Final Rule, 87 Fed Reg 4377 and 4379).

F	**ARPA SLFRF Eligibility Justification Requirements - Necessary with Item D.11 is marked "No"**
F.1	**Designating a Public Health Impact**
	N/A
F.1a	**Guidance: See Final Rule, 87 Fed Reg 4343.** There must be a negative public health impact or harm experienced by an individual or a class. For ease of administration, the interim final rule allowed, and the final rule maintains the ability for, recipients to identify a public health impact on a population or group of individuals, referred to as a ''class,'' and to provide assistance to that class.
F.2	**Designating a Negative Economic Impact**
	Not Required at a program level - The final rule provides a non-exhaustive list of enumerated eligible uses for assistance to small businesses that are impacted or disproportionately impacted by the pandemic. Further, within Assistance to Small Business, a recipient may also identify a negative economic impact experienced by small businesses and design and implement a response to that negative economic impact, beyond the uses specifically enumerated in the final rule, according to the standard described in the section Standards: Identifying a Negative Economic Impact. A recipient may also identify small businesses that have been disproportionately impacted by the public health emergency and design and implement a program that responds to the source of that disproportionate impact. (See Final Rule, 87 Fed Reg 4377).
F.2a	**Guidance: See Final Rule, 87 Fed Reg 4343.** First, there must be a negative economic impact, or an economic harm, experienced by an individual or a class. The recipient should assess whether, and the extent to which, there has been an economic harm, such as loss of earnings or revenue, that resulted from the COVID–19 public health emergency. A recipient should first consider whether an economic harm exists and then whether this harm was caused or made worse by the COVID–19 public health emergency. Second, the response must be designed to address the identified economic harm or impact resulting from or exacerbated by the public health emergency. In selecting responses, the recipient must assess whether, and the extent to which, the use would respond to or address this harm or impact.
F.3	**Description of how proposed program addresses/responds to harm and is reasonable**
	Not Required at a program level - The final rule provides a non-exhaustive list of enumerated eligible uses for assistance to small businesses that are impacted or disproportionately impacted by the pandemic. Further, within Assistance to Small Business, a recipient may also identify a negative economic impact experienced by small businesses and design and implement a response to that negative economic impact, beyond the uses specifically enumerated in the final rule, according to the standard described in the section Standards: Identifying a Negative Economic Impact. A recipient may also identify small businesses that have been disproportionately impacted by the public health emergency and design and implement a program that responds to the source of that disproportionate impact. (See Final Rule, 87 Fed Reg 4377).
F.3a	**Guidance: See Final Rule, 87 Fed Reg 4343.** The program, service, or other intervention must address or respond to the identified impact or harm. The final rule maintains the interim final rule requirement that eligible uses under this category must be in response to the disease itself or other public health harms that it caused Responses must be reasonably designed to benefit the individual or class that experienced the public health impact or harm. Uses of funds should be assessed based on their responsiveness to their intended beneficiaries and the ability of the response to address the impact or harm experienced by those beneficiaries Responses must also be related and reasonably proportional to the extent and type of public health impact or harm experienced. Uses that bear no relation or are grossly disproportionate to the type or extent of harm experienced would not be eligible uses.

F.4 **Assessment of whether identified industry is eligible**

N/A - As the program is designed to be small business assistance, an analysis of the industry impact is not required. Kane County should ensure that the program run by IMEC appropriately considers the impact on the small business awarded grants through this program. Programs or services in this category must respond to a harm experienced by a small business or class of small businesses as a result of the public health emergency. To identify impacted small businesses and necessary response measures, recipients may consider impacts such as lost revenue or increased costs, challenges covering payroll, rent or mortgage, or other operating costs, the capacity of a small business to weather financial hardships, and general financial insecurity resulting from the public health emergency. (See Final Rule 87 Fed Reg 4377).

F.4a **Guidance: See Final Rule, 87 Fed Reg 4382.** Simplified test. An industry is presumed to be impacted if the industry experienced employment loss of at least 8 percent. Specifically, a recipient should compare the percent change in the number of employees of the recipient's identified industry and the national Leisure & Hospitality sector in the three months before the pandemic's most severe impacts began (a straight three-month average of seasonally-adjusted employment data from December 2019, January 2020, and February 2020) with the latest data as of the final rule release (a straight three-month average of seasonally-adjusted employment data from September 2021, October 2021, and November 2021).

If an industry does not satisfy the test above or data are unavailable, the recipient may still designate the industry as impacted by demonstrating the following: the recipient can show that the totality of relevant major economic indicators demonstrate that the industry is experiencing comparable or worse economic impacts as the national tourism, travel, and hospitality industries at the time of the publication of the final rule, and that the impacts were generally due to the COVID–19 public health emergency. Recipients may rely on available economic data, government research publications, research from academic sources, and other quantitative sources for this determination. If quantitative data is unavailable, the recipient can rely on qualitative data to show that the industry is experiencing comparable or worse economic impacts as the national tourism, travel, and hospitality industries, and the impacts were generally due to the COVID–19 public health emergency. Recipients may rely on sources like community interviews, surveys, and research from relevant state and local government agencies

G **Capital Expenditure Evaluations - Complete if Item 16 is marked as "Between $1 m and $10 m" or "Over 10 m"**

G.1 ***1. Description of harm or need to be addressed***

N/A

G.1a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should provide a description of the specific harm or need to be addressed, and why the harm was exacerbated or caused by the public health emergency. When appropriate, recipients may provide quantitative information on the extent and type of the harm, such as the number of individuals or entities affected.

G.2 ***2. Explanation of why a capital expenditure is appropriate***

N/A

G.2a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should provide an independent assessment demonstrating why a capital expenditure is appropriate to address the specified harm or need. This should include an explanation of why existing capital equipment, property, or facilities would be inadequate to addressing the harm or need and why policy changes or additional funding to pertinent programs or services would be insufficient without the corresponding capital expenditures. Recipients are not required to demonstrate that the harm or need would be irremediable but for the additional capital expenditure; rather, they may show that other interventions would be inefficient, costly, or otherwise not reasonably designed to remedy the harm without additional capital expenditure.

3. Comparison of the proposed capital expenditure against alternative capital expenditures

G.3 a. A comparison of the effectiveness of the capital expenditures in addressing the harm identified

N/A

G.3a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should generally consider the effectiveness of the capital expenditures in addressing the harm over the useful life of the capital asset and may consider metrics such as the number of impacted or disproportionately impacted individuals or entities served, when such individuals or entities are estimated to be served, the relative time horizons of the project, and consideration of any uncertainties or risks involved with the capital expenditure.

G.4 b. A comparison of the expected total cost of the capital expenditures

N/A

G.4a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should consider the expected total cost of the capital expenditure required to construct, purchase, install, or improve the capital assets intended to address the public health or negative economic impact of the public health emergency. Recipients should include pre-development costs in their calculation and may choose to include information on ongoing operational costs, although this information is not required.

H **Equitable Outcomes - Complete it item 18 is populated with "Yes".**

H.1 **Description of equitable outcome goal and how the proposed program expects to achieve this goal**

This program will address equity by assisting manufacturers to recover and grow their business, allowing for retention and creation of good paying jobs throughout the county. Manufacturers currently report a worker shortage with many positions going unfilled. IMEC and Kane County work with Elgin and Waubonsee Community Colleges, local high schools, and many other local partners for advertising, training and filling those open positions. Manufacturing jobs have an average annual pay of $58,812. High paying jobs and job security greatly reduce the negative impacts of financial stress, improve mental and physical health, and reduces housing and food insecurity. Improving economic conditions now and for the future. Low-paying jobs, unaffordable housing and limited access to services are realities and threats facing low income residents and communities of color as shared by participants in community sessions conducted by the Kane County Health Department. The Community Health Survey conducted by the Kane County Health Department concluded that the Economy was ranked by survey respondents as the most urgent quality of life issue in Kane County (26.0% of survey respondents).

PROJECT DESCRIPTION

Over 700 manufacturers call Kane County home. Ninety-nine percent of these companies are local, family owned small and mid-sized enterprises. These manufacturers and their workforce were deemed essential throughout the pandemic and, consequently, have navigated constant shifts and challenges. The post-pandemic manufacturing landscape is very different, with persistent workforce shortages and rapidly evolving supply chain demands that require new levels of productivity.

In August 2021, IMEC conducted a survey of manufacturing leaders on their urgent and priority needs to rebound from the pandemic. Ninety Kane County manufacturers completed the survey. The results from this survey showed widely diverse priority needs. While high-level themes arose around workforce, supply chain, market growth, and productivity, each company faces a unique set of circumstances and requires tailored solutions. Small and mid-sized manufacturers often lack the resources and wide-ranging expertise to adapt rapidly to changing requirements. Furthermore, the acute workforce gap creates a challenging environment to meet existing customer requirements, let alone make the necessary improvements for long-term competitiveness and job creation.

As a result of these insights, this proposed Kane County Manufacturing Initiative will reshape and strengthen post-pandemic economic resilience of the county's manufacturing sector through two concurrent programs:

1. Kane County Lighthouse Manufacturers: Up to twenty Kane County manufacturers with less than 250 employees will be selected to be a part of the Lighthouse Manufacturers Program. The manufacturers of this cohort will be guided to make significant productivity improvements through a customized combination of automation, upskilling/career pathways, and operational efficiency solutions. These lighthouse manufacturers will also learn from one another and be showcased for other manufacturers to acquire effective pathways for small and mid-sized manufacturers to remain globally competitive in the post-pandemic environment.
2. Expanding Talent Pipelines: The Expanding Talent Pipelines Program will be open to all Kane County manufacturers. Using a combination of tools such as IMEC's Diversity, Equity, and Inclusion Journey Map and DEI Assessment, companies will be guided to create more inclusive cultures and expand talent pipelines for a wide range of underserved populations. Core to this initiative will be a DEI assessment and project plan for each participating company, workshops to learn best practices, and an implementation voucher to cover costs for technical assistance providers to launch new programs that expand talent pipelines for underserved communities (ex. Autonomy Works).

It is anticipated these two programs will generate over $25 million of aggregate impact for the $1 million use of ARPA funds. IMEC, as part of the U.S. Commerce NIST Manufacturing Extension Partnership, utilizes a third-party evaluation of economic impacts. This evaluation is a survey of a subset of manufacturing firms that participate in project activities. The survey asks for the economic impacts in terms of jobs

created/retained, investments, sales increased/retained, and cost savings - all drivers of global competitiveness. These numbers are used to calculate an aggregate impact of the project activities. Furthermore, this project seeks to assist at least sixty county manufacturers and their workforce. It is estimated this initiative will directly and indirectly affect 1,000 jobs.

WHO IS IMEC

As the U.S. Department of Commerce NIST Manufacturing Extension Partnership Center for Illinois, IMEC assists Illinois manufacturers through its technical assistance and support services. IMEC is a team of improvement specialists dedicated to providing manufacturers in Illinois with the tools and techniques to excel and compete globally. In 2022 alone, IMEC assisted over 1,900 manufacturers and worked with its extensive ecosystem of partners, ranging from manufacturing associations to economic development centers and workforce boards, to ensure manufacturers had the resources and technical assistance they required.

SUMMARY PROCESS

The proposed initiative process is as follows:

1. Extensive outreach and awareness to all Kane County manufacturers to encourage manufacturer participation.
2. For the following programs:
    a. Lighthouse Program: A formal application and scoring process will determine up to twenty selected companies to participate. Manufacturers with less than 250 employees will be eligible.
        - Selected companies will receive a 'lighthouse' assessment to determine gaps and priorities, create customized plans, and have the technical assistance from IMEC and partners to address gaps. Companies will also participate in best practice sharing among the lighthouse participants.

    b. Expanding Talent Pipelines: All county manufacturers will be eligible to participate. Each participating company will sign a 'project commitment' to work with IMEC to conduct a DEI assessment and project plan, participate in a set number of workshops, and utilize one curated technical assistance provider to expand talent opportunity for underserved workers.
3. Post-project assessments will evaluate satisfaction and preliminary economic impacts for each company. Six to nine months after projects are complete, IMEC will conduct a final economic impact survey to evaluate the jobs created/retained, investments, sales increases/retained, and cost savings

BUDGET SUMMARY

Initiative Areas	Summary	Budget
Lighthouse Manufacturing	20 companies @$30,000 each	$600,000
Expanding Talent Pipelines	Events and assessments Technical assistance vouchers	$400,000
Program Outreach and Administration**	Administration	$40,000

** If approved by the county, IMEC is willing to conduct the program administration at no cost to ensure the full amount of funding is dedicated to manufacturing services.

October 10, 2023

Unique Identifier: 36655902

GRANT AGREEMENT BETWEEN THE COUNTY OF KANE AND ILLINOIS MANUFACTURING EXCELLENCE CENTER

THIS AGREEMENT, having start date of January 1, 2024, is entered into by and between the County of Kane ("County"), and Illinois Manufacturing Excellence Center ("Subrecipient"), and governs disbursement of the Department of Treasury Coronavirus State and Local Fiscal Recovery Funds by the County to the Subrecipient. The County and Subrecipient shall sometimes be referred to collectively as the "Parties."

WHEREAS, on March 13, 2020, the President of the United States issued a Proclamation on Declaring a National Public Health Emergency as a result of the COVID-19 outbreak; and

WHEREAS, on March 11, 2021, the President of the United States signed into law the American Rescue Plan Act ("ARPA"); and

WHEREAS, to implement ARPA, the United States Department of the Treasury ("Treasury Department") published administrative regulations on May 17, 2021 (86 Fed. Reg. 26786) ("Interim Final Rule") and on January 27, 2022 (87 Fed. Reg. 4338) ("Final Rule"); and

WHEREAS, through ARPA, the Congress of the United States has appropriated funding, the Coronavirus State and Fiscal Recovery Funds ("SLFRF") to remain available through December 31, 2024, for making payments to metropolitan cities, nonentitlement units of local government, and counties to mitigate the fiscal effects stemming from the public health emergency with respect to COVID-19; and

WHEREAS, the Federal Award Identification Number (FAIN) is SLFRP0243, the federal awarding agency is U.S. Department of Treasury and the Assistance Listing Number is 21.027; and

WHEREAS, the County qualified as an eligible unit of local government and received SLFRF on 05/18/2021; and

WHEREAS, a unit of local government may award grants consistent with the criteria of ARPA and the Final Rule; and

WHEREAS, in accordance with ARPA (*see* 42 U.S.C §803(c)), the County shall only use SLFRF: (1) to respond to the public health emergency with respect to COVID-19 or its negative economic impacts; (2) to respond to workers performing essential work during the COVID-19 public health emergency by providing premium pay to eligible workers of the County, or by providing grants to eligible employers that have eligible workers who perform essential work; (3) for the provision of government services to the extent of the reduction in revenue of the County due to the COVID-19 public health emergency relative to revenues collected in the most full fiscal year of the County prior to the emergency; or (4) to make necessary investments in water, sewer, or broadband infrastructure; and

WHEREAS, ARPA provides that if the County fails to comply with 42 U.S.C §803(c), the County shall be required to repay to the Secretary of the Treasury Department an amount equal to the amount of funds used in violation of such subsection; and

WHEREAS, the purpose of this Agreement will be implemented in accordance with

Exhibit A: Program Terms; and

WHEREAS, this Agreement is intended to distribute a portion of the County's SLFRF award from the County to the Subrecipient to benefit the citizens of Kane County.

NOW, THEREFORE, the Parties mutually agree as follows:

I. TERMS & CONDITIONS

The purpose of this Agreement is to establish a legal relationship between the County and the Subrecipient to implement programming associated with the COVID-19 public health emergency. The following requirements are applicable to all activities undertaken pursuant to this agreement with the portion of the SLFRF that the County intends to distribute to the Subrecipient as grant payments.

A. **Compliance with Applicable Requirements:** This Agreement requires compliance with the laws and regulations of the State of Illinois and with all applicable State and local orders, laws, regulations, rules, policies, and certifications governing any activities undertaken during the performance of this Agreement. This Agreement also requires compliance with the Uniform Administrative Requirements, Cost Principles, and Audit Requirements, which are published in Title 2, Part 200 of the Code of Federal Regulations (2 CFR Part 200), and all applicable guidance issued by the Treasury Department and all other applicable Federal laws and regulations.

B. **Hold Harmless:** The Subrecipient shall hold harmless, release, and defend the County from any and all claims, actions, suits, charges and judgments whatsoever that arise out of the Subrecipient's performance or nonperformance of the services or subject matter called for in this Agreement. The Subrecipient agrees to hold the County harmless for any evaluation and/or advice which the County provided in its application and review process as to whether requested reimbursement(s) are/were permissible uses of the grant funds.

C. **Indemnification:** The Subrecipient shall indemnify the County, its officers, agents, employees, and the Federal awarding agency, from any claim, liability, loss, injury or damage arising out of, or in connection with, performance of this Agreement by the Subrecipient and/or its agents, employees or sub-contractors. It is the intent of the Parties to this Agreement to provide the broadest possible indemnification for the County. This indemnification shall include, but is not limited to, instances where the County relied upon the certification of the Subrecipient that such expenses which the Subrecipient sought to have reimbursed from the grant funds were eligible and met all requirements for reimbursement, but where the Office of the Inspector General, or any other Federal person, official, or agency that is charged with the auditing and review of expenditures of the grant funds determines that such expenses and/or reimbursement was not permitted under ARPA. In such instances, the Subrecipient agrees to indemnify, reimburse, and make whole the County for any funds which the government of the United States or its agencies seeks to, or does, recoup or collect in any manner, through litigation, by withholding other Federal funds owed to

the County, or otherwise. The Subrecipient further agrees to indemnify, reimburse, or make whole the County for any penalties associated with the Federal government seeking to recoup the expended SLFRF that the County disbursed to the Subrecipient, including interest, attorney's fees, or any penalty provided by law. The Subrecipient shall reimburse the County for all costs, attorneys' fees, expenses and liabilities incurred with respect to any litigation in which the Subrecipient is obligated to indemnify, defend and hold harmless the County under this Agreement. The Subrecipient shall also reimburse the County for all costs, expenses, and liabilities, including but not limited to, attorney's fees, and/or auditor/auditing fees, as a result of any challenge to the eligibility of the Subrecipient's use of the grant payments by the Federal government. If the County determines that the Subrecipient has used the grant payments inconsistent with the objectives of the Subrecipient's project, inconsistent with the provisions of ARPA and the Final Rule, or inappropriately, or if the Subrecipient has not spent the total amount of grant funds by the end of the period of performance, the Subrecipient shall repay the amount identified by the County to: County of Kane.

D. Misrepresentations & Noncompliance: The Subrecipient hereby asserts, certifies and reaffirms that all representations and other information contained in the Subrecipient's documentation, any subsequent requests for reimbursement, or any agreed-upon budget modifications are true, correct and complete, and to the best of the Subrecipient's knowledge. The Subrecipient acknowledges that all such representations and information have been relied on by the County to provide the grant funds under this Agreement. The Subrecipient shall promptly notify the County, in writing, of the occurrence of any event or any material change in circumstances which would make any of the Subrecipient representation(s) or information untrue or incorrect or otherwise impair the Subrecipient's ability to fulfill the Subrecipient's obligations under this Agreement.

E. Workers' Compensation: The Subrecipient shall provide Workers' Compensation Insurance coverage commensurate with statutory requirements for all of its employees involved in the performance of this Agreement.

F. Insurance: The Subrecipient shall carry sufficient insurance coverage to protect any grant funds provided to the Subrecipient under this Agreement from loss due to theft, fraud and/or undue physical damage. The Subrecipient's insurance coverage shall be adequate to satisfy the indemnification provisions set forth in this Agreement. Upon County request, the Subrecipient shall provide a Certificate of Insurance satisfactory to the requirement of the County. If the Subrecipient is self-insured, then the Subrecipient shall maintain excess coverage over and above its self-insured retention limits.

G. Amendments: This Agreement may be amended at any time only by a written instrument signed by both Parties. Such amendments shall not invalidate this Agreement, nor relieve or release either Party from its obligations under this Agreement. The County may, in its discretion, amend this Agreement to conform with

Federal, State or local governmental guidelines, policies and available funding amounts. If such amendments result in a change in the funding, the scope of services, or schedule of the activities to be undertaken as part of this Agreement, such modifications will be incorporated only by written amendment signed by both Parties. The Parties otherwise contemplate that the terms of this Agreement shall incorporate any subsequent amendments to ARPA or any regulations promulgated by the Treasury Department or other Federal agency, without need for further written amendment to this Agreement. The Subrecipient agrees to adhere to any amendments to ARPA or any related Federal laws or regulations.

H. Suspension or Termination: The County may suspend or terminate this Agreement upon written notice if the Subrecipient materially fails to comply with any terms of this Agreement, which include, but are not limited to, the following:

- Failure to comply with any of the rules, regulations or provisions referred to herein, or any such State and Federal statutes, regulations, executive orders, and Federal awarding agency guidelines, policies or directives as may become applicable at any time;
- Failure, for any reason, of the Subrecipient to fulfill in a timely and proper manner its obligations under this Agreement;
- Ineffective or improper use of grant funds provided to the Subrecipient under this Agreement; or
- Submission by the Subrecipient to the County reports that are incorrect or incomplete in any material respect.

If this Agreement is terminated, in whole or in part, the Parties shall comply with all close-out and post-termination requirements of this agreement.

I. Program Fraud & False or Fraudulent Statements or Related Acts: The Subrecipient must comply with 31 U.S.C. Chapter 38, Administrative Remedies for False Claims and Statements, which shall apply to the activities and actions of the Subrecipient pertaining to any matter resulting from a contract.

J. Debarment / Suspension and Voluntary Exclusion:

- Non-Federal entities and contractors are subject to the debarment and suspension regulations implementing Executive Order 12549, Debarment and Suspension (1986) and Executive Order 12689, Debarment and Suspension (1989) at 2 CFR Part 180 and the Department of Homeland Security's regulations at 2 CFR Part 3000 (Nonprocurement Debarment and Suspension).
- These regulations restrict awards, subawards, and contracts with certain parties that are debarred, suspended, or otherwise excluded from or ineligible for participation in Federal assistance programs and activities. A contract must not be issued to parties listed in the Systems of Award Management ("SAM") Exclusions. SAM Exclusions is the list maintained by the General Services Administration that contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. SAM

exclusions can be accessed at www.sam.gov.

K. Governing Law and Venue: This Agreement shall be interpreted under, and governed by, the laws of the State of Illinois, without regard to conflicts of laws principles. Any claim, suit, action, or proceeding brought in connection with this Agreement shall be in the Circuit Court of Kane County and each Party hereby irrevocably consents to the personal and subject matter jurisdiction of such court and waives any claim that such court does not constitute a convenient and appropriate venue for such claims, suits, actions, or proceedings.

L. Conflict of Interest: The Subrecipient shall maintain written standards of conduct covering conflicts of interest and governing the actions of its employees engaged in the selection, award and administration of contracts. No employee, officer, or agent may participate in the selection, award, or administration of a contract supported by a Federal award if he or she has a real or apparent conflict of interest. Such a conflict of interest would arise when the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of the parties indicated herein, has a financial or other interest in or a tangible personal benefit from a firm considered for a contract.

M. Term: This Agreement shall be effective on January 1, 2024 and shall expire on January 31, 2025, unless terminated pursuant to this Agreement. Any grant funds that are not expended by the Subrecipient at the end of the period of performance for this Agreement shall be returned to the County within 30 (thirty) days. The County is not obligated to provide the Subrecipient with reimbursements for expenses that occur beyond the Budget Period.

N. Eligible Expenses: The Subrecipient shall spend funds on allowable costs, as described below. The Subrecipient shall spend funds in accordance with 2 CFR Part 200, ARPA, the Final Rule, and current and future guidance issued by the Treasury Department for the use of SLFRF. For the purposes of this agreement, the Subrecipient is authorized to spend the grant funds only for the purposes set forth in **Exhibit A,** which is incorporated herein by reference. **Exhibit A** contains a description of the components of the Subrecipient's program and the eligible uses of grant funds. The Subrecipient agrees that the sole and exclusive decision as to whether or not the Subrecipient's use of the grant funds is approved lies within the discretion of the County. The Subrecipient acknowledges and agrees that the County may deny the use of grant funds which, in the discretion of the County, is not a permitted use of SLFRF under APRA, the Final Rule, and any current and future guidance issued by the Treasury Department. The County's approval of this agreement does not guarantee that the Subrecipient's use of the grant funds will ultimately be approved by the County, the Treasury Department, or the Office of the Inspector General. Any portion of the award that is not used for the purposes set forth in **Exhibit A** shall be repaid to the County.

O. Payments: The sole source of grant payments under this Agreement shall be from the

County's SLFRF. The County shall not be obligated to fund the Subrecipient from any other source. The County shall not be obligated to provide any grant funds in excess of the Award Amount under this Agreement. The Subrecipient will submit financial reports to support the payment schedule per the terms in **Exhibit A**. The Subrecipient shall not use grant funds for costs reimbursed or to be covered by other grants, insurance, State or Federal sources, including but not limited to CARES Act programs, FEMA, and any other source of financial recovery from COVID-19.

P. Record Retention: The Subrecipient shall maintain all records and supporting documents, and all records relevant to this Agreement for five (5) years after all SLFRF have been expended or returned to the Treasury Department by the County. The Subrecipient agrees to cooperate with the County and will ensure that it maintains such records to allow the County to comply with any and all recordkeeping requirements under Federal or State law, or pursuant to any court order. If any litigation, claim or audit is started before the expiration of this retention period, the records must be retained until all litigation, claims or audit findings involving the records have been resolved and final action taken. The Subrecipient is responsible for ensuring all contractors and vendors, if applicable, adhere to these records' retention requirements.

Q. Internal Controls: The Subrecipient must comply with 2 CFR 200.303 and establish and maintain effective internal control over the funds allocated under this Agreement. When requested by the County, the Subrecipient must provide reasonable assurance that the Subrecipient is managing the award in compliance with Federal statutes, regulations, and the terms and conditions of the County's SLFRF award.

R. Specific Conditions: The Subrecipient will comply with any and all specific conditions established by the County, in compliance with 2 CFR 200.208, which are set forth in Exhibit B. Exhibit B is incorporated herein by reference.

S. Monitoring: The County has the right to conduct monitoring consistent with 2 CFR Part 200, including but not limited to 2 CFR 200.332. The Subrecipient shall participate in monitoring activities at the request of the County. The County may take any action described in 2 CFR 200.339 in order to remedy instances of non-compliance by the Subrecipient with the Agreement terms.

T. Reporting Procedures: Per Exhibit A, the Subrecipient agrees to submit the forms, certifications, and documentation as may be required by the County which document any expense for which Subrecipient has used the grant funds under this Agreement. The County may request ad-hoc reports and supporting documentation in addition to reimbursement requests. The County may also request that the Subrecipient comply with audit requests made by the Treasury Department. Such reporting and requests may include documentation of invoices, submission of payroll logs, and proof of contracts. to substantiate eligible expenses. Failure to submit proper documentation verifying eligible expenses may result in termination of this agreement and recoupment of awarded funds from the Subrecipient.

U. **FOIA:** The Subrecipient acknowledges that the County is a public body and agrees to participate with the County in responding to any requests for information that the County receives related to the SLFRF funds pursuant to the Freedom of Information Act (5 ILCS 140/1 *et seq*. (West 2022)). The Subrecipient shall provide any documents requested by the County in a timely fashion to allow the County to comply with the requirements of the Freedom of Information Act.

V. **Notices:** Any and all notices, which may be required hereunder by any Party to the other Party, shall be executed by either personal delivery in writing or by mail, registered and certified, postage pre-paid with a return receipt requested. The Subrecipient agrees to keep the County informed of any change in business and/or mailing addresses, as well as telephone, facsimile, email, or any other relevant means of contact and communication. Mailed notices must be addressed to the Parties at the address below:

County: Kane County American Rescue Plan Program Manager
Kane County Government Center
719 S. Batavia Avenue, Building A
Geneva Illinois, 60134

Subrecipient: [Enter Subrecipient Contact Information]

II. SEVERABILITY

If any provision of this Agreement is held invalid, the remainder of the Agreement shall not be affected thereby and all other parts of this Agreement shall nevertheless be in full force and effect.

III. WAIVER

The County's failure to act with respect to a breach by the Subrecipient does not waive its right to act with respect to subsequent or similar breaches. The failure of the County to exercise or enforce any right or provision shall not constitute a waiver of such right or provision.

IV. CERTIFICATION

The Subrecipient certifies the funds awarded pursuant to this Agreement shall be used only for the purposes described in **Exhibit A**. The Subrecipient acknowledges that this Agreement is made solely upon this certification and that any false statements, misrepresentations, or material omissions shall be the basis for immediate termination of this Agreement and repayment of all SLFRF distributed under this Agreement. The Subrecipient understands that the grant funds under this Agreement are supported by the Treasury Department Coronavirus Local and Fiscal Recovery Fund established by Section 9901 of ARPA and the Final Rule. The Subrecipient will comply with, and is subject to, all requirements for the use of SLFRF and all related guidance issued by the Treasury

Department. Costs that have been or shall be submitted for reimbursement have not been reimbursed by other sources of funding.

V. SUBAWARD INFORMATION

The Federal Award associated with this Agreement is as follows:

Unique Identifier: [insert]

CFDA Number: 21.027

Assistance Listing Title: Coronavirus State and Local Fiscal Recovery Funds

Federal Awarding Agency: United States Department of Treasury

Federal Award Identification Number (FAIN): SLFRP0243

Federal Award Date to County: May 18, 2021

Award is for Research & Development: No

Period of Performance Start and End Date: January 1, 2024, through January 31, 2025

Budget Period: The timeframe for spending is from January 1, 2024 through January 31, 2025.

Award Amount: Total obligation under this Agreement is $1,040,000

Contact for Program: Submit inquiries and questions to KaneARPA@co.kane.il.us

VI. ENTIRE AGREEMENT

This Agreement constitutes the entire agreement between the Parties for the use of funds received under this Agreement and it supersedes all prior or contemporaneous communications and proposals, whether electronic, oral, or written between the Parties relating to County's allocation of the grant funds to the Subrecipient. This Agreement is subject to availability of funds under ARPA. The County has no legal requirement to provide funding to any Subrecipient.

VII. SIGNATURE AUTHORITY

The following specific officers/officials, or their authorized designees, are required to sign this Agreement on behalf of the Subrecipient. Note: If this Agreement is signed by a designee, a duly authenticated delegation of authority evidencing the signer's authority to execute the Agreement for and on behalf of the Subrecipient must be attached to the Agreement for review by Kane County. The following signatory on behalf of the County has been authorized to execute this Agreement by resolution of the Kane County Board or authorized committee thereof.

IN WITNESS WHEREOF, the Parties hereto have caused their duly authorized representatives to execute this Agreement on the dates hereafter set forth below.

Subrecipient:
Signed:

Its Duly Authorized Agent
Printed Name:
Title:
Date:

County of Kane
Signed:
Its Duly Authorized Agent
Printed Name:
Title:
Date:

DRAFT

Exhibit A: Program Terms

1. Program Description: The Subrecipient will administer the "Kane County Manufacturing Initiative" to support eligible manufacturers that experienced negative economic impacts from the COVID-19 pandemic. The Subrecipient will conduct outreach and awareness to Kane County manufacturers to encourage participation and also complete post-project assessments to evaluate preliminary impacts for each participating company. The Kane County Manufacturing Initiative will consist of two components:

   (A) Kane County Lighthouse Manufacturers: Up to twenty Kane County manufacturers with less than 250 (Two Hundred Fifty) employees will be selected to be a part of the Lighthouse Manufacturers Program. The eligible manufacturers will be guided to make significant productivity improvements through a customized combination of automation, upskilling/career pathways, and operational efficiency solutions. The manufacturers in this component will also learn from one another and be showcased for other manufacturers to acquire effective pathways for small and mid-sized manufacturers to remain globally competitive in the post-pandemic environment. The Subrecipient will develop a formal application and scoring process to determine up to 20 (Twenty) manufacturing companies in Kane County to participate. Manufacturers with less than 250 (Two Hundred Fifty) will be eligible. Selected companies will receive an assessment to determine gaps and priorities, create customized plans, and have technical assistance from the Subrecipient and partners to address gaps.

   (B) Expanding Talent Pipelines: The Expanding Talent Pipelines will be open to all Kane County manufacturers. Using a combination of tools, companies will be guided to create more inclusive cultures and expand talent pipelines for a wide range of underserved populations. There will be a Diversity, Equity, and Inclusion assessment and project plan for each participating company, workshops to learn best practices, and an implementation voucher to cover costs for technical assistance providers to launch new programs that expand talent pipelines for underserved communities. Each participating manufacturer in Kane County will sign a commitment with the Subrecipient to conduct a Diversity, Equity, and Inclusion assessment and project plan, participate in a set number of workshops, and utilize one curated technical assistance provider to expand talent opportunity for underserved workers.

2. Purpose of Award: The Kane County Manufacturing Initiative will provide assistance to eligible manufacturers in Kane County that experienced a negative economic impact caused by the COVID-19 pandemic. The Kane County Manufacturing Initiative will also provide assistance to eligible manufacturers to support workforce development in underserved communities that were disproportionately impacted by the COVID-19 pandemic.

3. Eligible Costs: The Subrecipient shall only spend the grant funds available under this Agreement to response to the COVID-19 public health emergency and its negative economic impacts. Consistent with that eligible use, the Subrecipient is authorized to spend $1,040,000 (One Million and Forty Dollars) to support eligible manufacturers in Kane County that experienced negative economic impacts during the COVID-19 pandemic. Of that amount, eligible costs are:

   (A) Kane County Lighthouse Manufacturers: $600,000 (Six Hundred Thousand Dollars) to be made available to provide technical assistance to 20 (Twenty) manufacturing companies in Kane County with less than 250 (Two Hundred Fifty) employees at $30,000 (Thirty Thousand Dollars) each.

   (B) Expanding Talent Pipelines: $400,000 (Four Hundred Thousand Dollars) to be made available to manufacturing companies in Kane County that sign a commitment with the Subrecipient to work with the Subrecipient to conduct a Diversity, Equity, and Inclusion assessment and project plan, participate in a set number of workshops, and utilize one curated technical assistance provider to expand talent opportunity for underserved workers in Kane County.

DRAFT

(C) Program Outreach and Administration: $40,000 (Forty Thousand Dollars) for the Subrecipient's administrative costs associated with this program.

4. Performance Measures: The County may request additional information from the Subrecipient as needed to measure performance under this Agreement.

5. Required Reporting

a. Programmatic reports: At the County's request, the Subrecipient shall submit programmatic reports to facilitate any requirements under the Uniform Administrative Requirements, Cost Principles, and Audit Requirements, which are published in Title 2, Part 200 of the Code of Federal Regulations (2 CFR Part 200), and any supporting documentation related to this Agreement and the Subrecipient's implementation of the Program.

b. Financial reports: At the County's request, the Subrecipient shall submit financial reports to facilitate any requirements under the Uniform Administrative Requirements, Cost Principles, and Audit Requirements, which are published in Title 2, Part 200 of the Code of Federal Regulations (2 CFR Part 200), and any supporting documentation related to this Agreement and the Subrecipient's implementation of the Program. Financial reports shall describe the expenditures related to this Agreement. The Subrecipient's accounting and financial management system shall be sufficient to permit the preparation of financial reports required in connection with this Agreement and the tracing of funds to a level of expenditure adequate to establish that such funds have been used pursuant to the terms of this agreement.

c. Closeout reports: The Subrecipient shall describe the status of the implementation of the Program and all related activities. The closeout report shall further include an accounting of all costs and expenses incurred by the Subrecipient and such other information as the County deems necessary to facilitate closeout of this Agreement and permit the County to meet all of its obligations and requirements under the same.

6. Payment

The Subrecipient will request reimbursement of grant funds monthly by the 15th of the following month with receipts for expenditures for eligible costs. The Subrecipient will supply a quarterly report detailing their activities and use of grant funds pursuant to this Agreement.

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Exhibit B: Specific Conditions

1. Per 2 C.F.R. 200.208, the Subrecipient shall comply with the following Specific Conditions under this Agreement:

The County retains the right to impose specific conditions, as needed.

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STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1318

AUTHORIZING THE USE OF STATE AND LOCAL FISCAL RECOVERY FUNDS TO FUND MOBILE OPERATIONS COMMAND POST FOR THE KANE COUNTY OFFICE OF EMERGENCY MANAGEMENT

WHEREAS, the Congress of the United States has enacted the American Rescue Plan Act of 2021 ("ARPA") to provide economic relief to State, Local, and Tribal governments responding to economic and public health impacts of the COVID-19 pandemic; and

WHEREAS, the County of Kane has received a total of $103,413,041 (One Hundred Three Million, Four Hundred Thirteen Thousand, Forty-One Dollars) from the United States Department of the Treasury, in State and Local Fiscal Recovery Funds ("SLFRF") pursuant to ARPA, and

WHEREAS, pursuant to ARPA and the administrative regulations adopted by the United States Department of the Treasury ("Final Rule"), the County of Kane shall use SLFRF to defray costs associated with its response to COVID-19 pandemic within the County, to address the economic fallout from the pandemic, and lay the foundation for a strong and equitable recovery; and

WHEREAS, by Resolution 21-313, the Kane County Board has established the American Rescue Plan Committee ("ARPC") as a resource for research, education, planning, and recommendations for the best allocation and uses of the County's SLFRF; and

WHEREAS, by Resolution 21-156, the Kane County Board approved the recommended Spending Plan as proposed by the ARPC, which designates $42,000,000 (Forty-Two Million Dollars) to be used for Kane County Department and Elected Office project requests; and

WHEREAS, the Kane County Office of Emergency Management has made a request in the amount of $1,517,540 (One Million, Five Hundred Seventeen Thousand, Five Hundred and Forty Dollars) of SLFRF to fund the Mobile Operations Command Post vehicle for the purpose of a coordinated and effective response to the spread of COVID-19 and future public health and other emergency events. The coordinated and effective response would include a combination of county and municipal entities in order to save lives, minimize damage, and provide the basis for long-term community recovery and mitigation activities. This Mobile Operation Command Post will serve all the residents of Kane County. It is intended to improve emergency management, government services and preparedness capabilities by supporting flexible, sustainable, secure, and strategically located and fully operational mobile command post with a focus on addressing the needs of public health and other emergencies; and

WHEREAS, the Mobile Operations Command Post will allow for 24/7/365 prompt, efficient, coordinated emergency response to emergencies like COVID-19. It can be community centered, closer to where the affected areas require the resource. It will enable quicker response and the ability to reach areas of the county that are underserved or areas of small community commerce or areas where there is a lack of accessibility by residents; and

WHEREAS, to assist the County in determining whether the project is an eligible use of SLFRF under ARPA, the Final Rule, and the related guidance issued by the United States Department of the Treasury, the ARPC consultant, Ernst and Young, has reviewed the Kane County Office of Emergency Management request for SLFRF for Mobile Operations Command Post for the purpose of supporting all the citizens of Kane County, the 16 townships and the 30 cities and villages in the event of public health and other emergencies with more effective, upgraded and improved emergency response equipment. Ernst and Young completed an eligibility assessment of the Kane County Office of Emergency Management project under the U.S. Department of Treasury's rules and regulations, Section EC-2: Negative Economic Impacts, EC Subcategory 2.22 (see Exhibit A); and

WHEREAS, the ARPC recommends that the Kane County Board authorizes the use SLFRF in the amount of $1,517,540 (One Million, Five Hundred Seventeen Thousand, Five Hundred and Forty Dollars) to fund Mobile Operations Command Post for the Kane County Office of Emergency Management, to be spent during the ARPA period of performance and in accordance with the ARPA, the Final Rule and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board the Kane County Board hereby authorizes the Kane County Office of Emergency Management use of State and Local Fiscal Recovery Funds in the amount of $1,517,540 (One Million, Five Hundred Seventeen Thousand, Five Hundred and Forty Dollars) to be used for Mobile Operation Command Post in accordance with the American Rescue Plan Act of 2021, the Final Rule, and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Kane County Board that the following adjustment be made to the Fiscal Year 2023 budget:

$758,770	Mobile Data Units	355.800.668111.70040
($758,770)	Allowance for Budget Expense	355.800.668.8500

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Kane County Board that the remaining grant funding will be budgeted in FY25 ($758,770).

Line Item: See Above
Line Item Description: See Above
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? No
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available?
See Above

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing the Use of State and Local Fiscal Recovery Funds to Fund Mobile Operations Command Post for the Kane County Office of Emergency Management

Committee Flow:
American Rescue Plan Committee, Executive Committee, County Board

Contact:
Jarett Sanchez, 630.444.1224

Budget Information:

Was this item budgeted? No	Appropriation Amount: $1,517,540.00
If not budgeted, explain funding source: 355.800.668111.70040	

Summary:

This resolution authorizes the Kane County Office of Emergency Management use of State and Local Fiscal Recovery Funds in the amount of $1,517,540 (One Million, Five Hundred Seventeen Thousand, Five Hundred and Forty Dollars) to be used for Mobile Operation Command Post in accordance with the American Rescue Plan Act of 2021, the Final Rule, and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

A **Proposed Program Name**

OEM Mobile Command Post

B **Proposed Program Summary**

Kane County has a population of over 515,000 citizens living across 524 sq. miles, made up of 16 townships and 30 municipalities. Kane County has a diverse population ranging from urban to rural with the highest population living along both sides of the Fox River. There are cities as big as Elgin and Aurora and villages as small as Virgil and Maple Park. The western areas of the county are more rural and may not have the resources and support locally to initially respond to an incident without assistance. Disasters require a coordinated and effective response by an appropriate combination of county, municipal, private-sector, and nongovernmental entities in order to save lives, minimize damage, and provide the basis for long-term community recovery and mitigation activities.

This mobile operation center is needed to serve all the residents of Kane County and is essential for special events and emergency responses that occur in Kane County. It is intended to improve emergency management and preparedness capabilities by supporting flexible, sustainable, secure, and strategically located and fully operational mobile command post with a focus on addressing the needs to the emergency. During the response to the pandemic, the existing command center was used to support not only police and fire incident responses, but the public health response for community vaccination centers, being able to reach underserved areas of the county. Not only did it provide the command and control center for these remote operations, at times it initially was used to provide an area to administer vaccines.

Questions:
1. The application mentions the command post will partially be used for special events. What circumstances would be considered "special events"?

Special Events can be qualified as any pre-planned event we would be requested to attend. It can be something such as a public education event where it can be used for crowd control or display or a municipal event where it can be utilized as forward command for communication and collaboration of the first response agencies on the scene. An emergency event could be an emergency response to deal with the increasing violence resulting from the public health emergency, acts of civil disobedience, hazardous event or an emergency response where a coordination of services allows for a multi-jurisdictional approach to resolve or approach the problem at the incident. A special event could also be a rapid deployment in underserved areas to assist with a mobile vaccination clinic where this vehicle would be able to fulfill this role until a less temporary facility could be established.

2. Will this mobile operation center be used for crowd control at events such as job fairs and/or serve as a mobile vaccination or testing site?
The Command post probably would not be used specifically at job fairs but would be used at public education events where job information may be available, can be used in the recruitment and personal and family preparedness information sharing events, and has been used at the mass vaccinations sites and to distribute PPE and pandemic related supplies. Additionally the Command post can be utilized by multiple jurisdictional agencies and first responders to coordinate the response to incidents that could potentially involve the loss of life, property and the environment with the benefit to the surrounding communities.
3. The budget included in the application is reporting a higher amount than the supporting document provided (preliminary specification quote from LDV custom specialty vehicles) for the vehicle costs. Will there be expenditures in addition to the initial purchase of the mobile command center? If so, what is the expected range of capital expenditures for this project?
There are increases in the actual production cost of the vehicle as well as some of the outside after-market enhancements for the vehicle.
A new price quote is being requested from LDV and at the time the vehicle is expected for delivery the remainder of the items would be ordered. This amount takes into account the price increases that have occurred over the years and allows for the most current, up-to-date items, technology and equipment to be ordered and installed. There are items to be added after we have the vehicle that are not part of the purchase price, as with any vehicle.

C **Proposed Program Risk Considerations and Requirements Summary**

This project could be either an improvement of an emergency operations center or the acquisition of emergency response equipment. Both are enumerated eligible uses under the final rule so long as it meets standards for capital expenditures and a nexus to the pandemic can be established. Projects with total capital expenditures of $1 million or greater will require an additional written justification. The justification reflects the fact that the time required for a large construction project may make capital expenditures less responsive to pandemic-related needs relative to other types of responses.

D **Program Assessment Details**

Complete the below Program Assessment Checklist. For instructions/guidance on using the below checklist please see the User Guide		
D.1	Select the appropriate broad SLFRF category applicable to this project	Responding to the public health and negative economic impacts of the pandemic
D.2	Select SLFRF Expenditure Category	EC1
D.3	SLFRF Expenditure Category Description	1: Public Health
D.4	Select SLFRF Expenditure Subcategory	1.11 Community Violence Interventions*^
D.5	Additional SLFRF Expenditure Categories for consideration	1.14 Other Public Health Services^
D.6	Comments regarding additional SLFRF Expenditure Categories	Mobile Operation Center to provide emergency responses to the county. The mobile operation center would also serve as a means to regulate crowd control and other police activities at various special events.
D.7	Are the beneficiaries Populations Presumed Eligible?	Not Applicable
D.8	Which Populations Presumed Eligible does the proposed program intend to serve?	Not Applicable
D.9	Is the Populations Presumed Eligible analysis conducted on each applicant or based on geographic area(s)?	Not Applicable
D.10	Is the proposed project related to an industry other than Tourism, Travel, or Hospitality?	Not Applicable
D.11	Is the proposed project an enumerated use?	Yes
D.12	Does the proposed project include subrecipients/beneficiaries?	No
D.13	What is the estimated number of subrecipients/beneficiaries?	0
D.14	Will the County be using a partner/subrecipient to administer the program?	No
D.15	Will the proposed program require funding beyond the eligible period of ARPA SLFRF funds?	No
D.16	Estimated ongoing costs beyond ARPA SLFRF eligibility period	No
D.17	Is the proposed project/expenditure solely related to ARPA SLFRF eligible uses?	Yes
D.18	Percentage of project estimated to be ARPA SLFRF eligible	100%
D.19	Does the proposed project include capital expenditures	Yes

D.20	Is the capital expenditure an enumerated use (Select One)	Yes - Improvements to or construction of emergency operations centers and acquisition of emergency response equipment (e.g., emergency response radio systems)
D.21	Select the appropriate range of expected capital expenditures	Between $1 million and $10 million
D.22	Is a Written Justification Required	Yes
D.23	Does the project include required programmatic data	Yes
D.24	Does the application indicate the program is designed to address equitable outcomes?	Yes

E **ARPA SLFRF Eligible Cost Category Designation - Items D.1 through D.6**

This project could be either an improvement of an emergency operations center or the acquisition of emergency response equipment. Both are enumerated eligible uses under the final rule so long as it meets standards for capital expenditures. Projects with total capital expenditures of $1 million or greater will require an additional written justification. The justification reflects the fact that the time required for a large construction project may make capital expenditures less responsive to pandemic-related needs relative to other types of responses.

1) Final Rule relating to enumerated capital expenditures:

•"Treasury enumerates that the following projects are examples of eligible capital expenditures, as long as they meet the standards for capital expenditures in section Capital Expenditures in General Provisions: Other:" … "Improvements to or construction of emergency operations centers and acquisition of emergency response equipment (e.g., emergency response radio systems)" (P.4354)

•"In addition to satisfying the two-part framework in Standards: Designating a Public Health Impact and Standards: Designating a Negative Economic Impact for identifying and designing a response to a pandemic harm, Treasury will require projects with total expected capital expenditure costs of $1 million or greater to undergo additional analysis to justify their capital expenditure." (P.4389)

•"for projects with total expected capital expenditures of $1 million or greater, recipients must complete and meet the substantive requirements of a Written Justification for their capital expenditure, except for Tribal governments as discussed below." (P. 4390)

•"The Written Justification should (1) describe the harm or need to be addressed; (2) explain why a capital expenditure is appropriate to address the harm or need; and (3) compare the proposed capital expenditure against alternative capital expenditures that could be made. The information required for the Written Justification reflects the framework applicable to all uses under the public health and negative economic impacts eligible use category, providing justification for the reasonable design, relatedness, and reasonable proportionality of the capital expenditure in response to the harm or impact identified." (P. 4390)

•"Treasury is clarifying that ''responding to'' COVID– 19 entails work needed to respond to the public health or negative economic impacts of the pandemic, apart from the typical pre-pandemic job duties or workload of an employee in a comparable role, if one existed. For example, responding to COVID–19 for a public safety worker may entail working in an emergency operations center to coordinate pandemic-related supply

distribution, responding to an increased volume of 911 calls, or implementing COVID–19 prevention and mitigation protocols in a carceral setting." (P.4385)

•"Preventing and responding to increased violence resulting from the public health emergency, including community violence intervention programs, or responding to increased gun violence resulting from the public health emergency, including payroll and covered benefits associated with community policing strategies; enforcement efforts to reduce gun violence; and investing in technology and equipment." (P.4449)

2) Final Rule relating to emergency response equipment or operations centers

•"C) Behavioral health care, including prevention, treatment, emergency or first-responder programs, harm reduction, supports for long-term recovery, and behavioral health facilities and equipment; and (D) Preventing and responding to increased violence resulting from the public health emergency, including community violence intervention programs, or responding to increased gun violence resulting from the public health emergency, including payroll and covered benefits associated with community policing strategies; enforcement efforts to reduce gun violence; and investing in technology and equipment" (pg. 4449)

•"Improvements to or construction of emergency operations centers and acquisition of emergency response equipment (e.g., emergency response radio systems)" (pg. 4354)

•"(3) investing in technology and equipment to allow law enforcement to more efficiently and effectively respond to the rise in gun violence resulting from the pandemic, for example technology to assist in the identification of guns whose serial numbers have been damaged" (pg. 4357)

F	**ARPA SLFRF Eligibility Justification Requirements - Necessary with Item D.11 is marked "No"**
F.1	**Designating a Public Health Impact**

Currently there is a lack of the ability have a safe and secure to link and video conference capabilities with agencies and other response entities as well as a link to outside. Additionally there needs to be additional space to allow for secure screening and physical separation of the prescreened and screened individuals and those suspected to have been exposed to the pandemic. The new mobile command post will allow for an additional outdoor prescreening area where suspected exposed individuals would be able to be screened without having to enter the main area and possible expose others to the virus/ disease. The new mobile command post will be able to better function as a command and control site after the initial response to the incident as the updated communication equipment and redesigned layout will allow for more separation of the areas and great technology infrastructure, communication/ video link capability. The ability to separate communication from the conference area will allow for more privacy and security.

F.1a **Guidance: See Final Rule, 87 Fed Reg 4343.** There must be a negative public health impact or harm experienced by an individual or a class. For ease of administration, the interim final rule allowed, and the final rule maintains the ability for, recipients to identify a public health impact on a population or group of individuals, referred to as a ‘‘class,’’ and to provide assistance to that class.

F.2 **Designating a Negative Economic Impact**

The mobile command post will allow for 24/7/365 prompt, efficient, coordinated emergency response to the incident. It can be community centered (at community locations) closer to where the affected areas require the resource. It will enable quicker response and the ability to reach areas of the county that are underserved or areas of small community commerce or areas where there is a lack of accessibility by residents.
The computer equipped work stations, conference room, and radio dispatch room to provide help in an active situation – whether a hazardous materials scene, accident, natural disaster or coordinating the response to a pandemic. The provision within 1 vehicle would otherwise require input/resources from multiple other outside agencies that would require time or long delay in acquiring.
The delay in acquiring the additional resources and necessary technology would delay getting the vaccine out to the population as quick as possible. That would cause additional harm to the population as the longer the time to deploy the necessary vaccine or life safety measures, the increased risk to the population affected. The effects of the delay in providing the assistance to the residents will filter to the risk of the population contracting the disease and being unable to work which then will have an effect on the economy as businesses are unable to sustain employees and residents are unable to purchase items due to lack of income. Economic recovery is inherent in residents being able to work and have income, the ability of transportation workers to provide the goods to the retailers, business being able to continue to sell goods and services and sustain employees and residents.
Investing in the readiness at all levels enables emergency management to coordinate with the communities; local law enforcement, fire and first response agencies and public health; to create a more efficient, effective and unified response to emergency events.
This will improve the preparedness capabilities to prevent, protect against, mitigate the effects of, respond to & recover from the threats and hazards that pose the greatest risk to the residents of the county.

	Additionally this would be providing the means necessary for the emergency response, coordination of services and response, allow for the multi-jurisdictional approach to solving the problems created by the incident and for support continuity. The mobile command post vehicle allows for initial on-scene set up of a forward operational center to respond to the incident and local need while awaiting additional resources or attempting to locate an appropriate location to open an on-site facility. Once the initial needs are addressed it can transitioned into a forward, central location for data sharing, response coordination and informed decision making.
F.2a	**Guidance: See Final Rule, 87 Fed Reg 4343.** First, there must be a negative economic impact, or an economic harm, experienced by an individual or a class. The recipient should assess whether, and the extent to which, there has been an economic harm, such as loss of earnings or revenue, that resulted from the COVID–19 public health emergency. A recipient should first consider whether an economic harm exists and then whether this harm was caused or made worse by the COVID–19 public health emergency. Second, the response must be designed to address the identified economic harm or impact resulting from or exacerbated by the public health emergency. In selecting responses, the recipient must assess whether, and the extent to which, the use would respond to or address this harm or impact.
F.3	**Description of how proposed program addresses/responds to harm and is reasonable**
	Providing the means necessary for the emergency response, coordination of services and response, allow for the multi-jurisdictional approach to solving the problems created by the incident and for support continuity. It was creating a command and control location for the initial set up of the incident site. Mitigation by reducing the threat to lives, property and community from future or on-going risks and hazardous incidents. Adding the ability to develop and maintain situational awareness to develop a common operating picture, assist in developing priorities for direction and control and coordination and manage the deployment of resources. Preventing and responding to the increase in violence resulting from the loss of jobs and income due to the public health emergency including civil unrest and civil disobedience. The mobile command post was utilized during the public health emergency to assist in the distribution of PPE to emergency response agencies, nursing homes and assisted living facilities and food banks within the county to aid in the loss of critically needed resources due to supply chain issues.
F.3a	**Guidance: See Final Rule, 87 Fed Reg 4343.** The program, service, or other intervention must address or respond to the identified impact or harm. The final rule maintains the interim final rule requirement that eligible uses under this category must be in response to the disease itself or other public health harms that it caused Responses must be reasonably designed to benefit the individual or class that experienced the public health impact or harm. Uses of funds should be assessed based on their responsiveness to their intended beneficiaries and the ability of the response to address the impact or harm experienced by those beneficiaries Responses must also be related and reasonably proportional to the extent and

type of public health impact or harm experienced. Uses that bear no relation or are grossly disproportionate to the type or extent of harm experienced would not be eligible uses.

F.4	**Assessment of whether identified industry is eligible**
	N/A - The mobile command post can assist all residents and business owners of the county by assisting in the safety of the citizens.
F.4a	**Guidance: See Final Rule, 87 Fed Reg 4382.** Simplified test. An industry is presumed to be impacted if the industry experienced employment loss of at least 8 percent. Specifically, a recipient should compare the percent change in the number of employees of the recipient's identified industry and the national Leisure & Hospitality sector in the three months before the pandemic's most severe impacts began (a straight three-month average of seasonally-adjusted employment data from December 2019, January 2020, and February 2020) with the latest data as of the final rule release (a straight three-month average of seasonally-adjusted employment data from September 2021, October 2021, and November 2021). If an industry does not satisfy the test above or data are unavailable, the recipient may still designate the industry as impacted by demonstrating the following: the recipient can show that the totality of relevant major economic indicators demonstrate that the industry is experiencing comparable or worse economic impacts as the national tourism, travel, and hospitality industries at the time of the publication of the final rule, and that the impacts were generally due to the COVID–19 public health emergency. Recipients may rely on available economic data, government research publications, research from academic sources, and other quantitative sources for this determination. If quantitative data is unavailable, the recipient can rely on qualitative data to show that the industry is experiencing comparable or worse economic impacts as the national tourism, travel, and hospitality industries, and the impacts were generally due to the COVID–19 public health emergency. Recipients may rely on sources like community interviews, surveys, and research from relevant state and local government agencies
G	**Capital Expenditure Evaluations - Complete if Item D.21 is marked as "Between $1 m and $10 m" or "Over 10 m"**
G.1	***1. Description of harm or need to be addressed***
	The acquisition of the new Command post allows for better and more coordinated response and collaboration with first responder agencies across the county. The new Command Post will support all the citizens of Kane County, the 16 townships and the 30 cities and villages with the improved Emergency response equipment and upgraded emergency response radio system and enable enhance forward field communications and

coordination. The ability to have better collaboration on scene at major incidents, emergency situations, vaccine distribution sites and public events is necessary to enable to provide the resources for data collection and dissemination of the data as well as response to the event. This also allows for the mitigation of events by reducing the threat from future or on-going risks and hazardous incidents. During the response to the pandemic, both with coordinating PPE distribution and vaccination sites, the current command post was found to be limited in its ability. Due to the age and size limitations, the additional technology is necessary to be added to the vehicle to support the virtual world we now work in. It was also demonstrated that the working space was not adequate to accommodate the needs of functioning as a vaccination site until a temporary solution was put in place. This limited the number of vaccines that could be given during a set period.

G.1a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should provide a description of the specific harm or need to be addressed, and why the harm was exacerbated or caused by the public health emergency. When appropriate, recipients may provide quantitative information on the extent and type of the harm, such as the number of individuals or entities affected.

G.2 ***2. Explanation of why a capital expenditure is appropriate***

The replacement of the vehicles and its equipment will allow benefits to the county and the surrounding communities; provides a place for the command and coordination of services and allows for a multi-jurisdictional approach to solving the problem(s) created by the incident.
This Mobile Command post can serve as a satellite emergency service coordination base at the scene of the critical incident or emergency situation and enable to intelligence and date gather to be transmitted to the EOC.
The updated and enhanced emergency response radio system as well as the upgraded emergency response equipment allows us to be better prepared for incidents that require multi-agency response. It will allow for better situational awareness as well as forward disaster intelligence to be gathered on scene, and the data transmitted to the EOC. Having a properly equipped and operational command post will allow for better on scene prompt coordination, communications and more efficient response to save lives, save property and the environment as well as protect the communities interests. All equipment is installed in the vehicle, ready to respond, capable of being operational within a very short amount of time when arriving on scene. If this vehicle was not in place, the length of time it would take to deploy and assemble the equipment in a climate controlled environment would be greatly extended, reducing the effectiveness of command and control of an incident or event. Emergencies occur in all types and temperatures of weather, which, if forced to work in, reduces the ability of incident command personnel to function in. Likewise, if the vehicle is being used as a vaccination platform, those supplies would have to be delivered and assembled, and a climate controlled environment would have to be provided as well to carry out the mission. With this capital purchase, it allows everything to be rapidly deployable in one complete package.

G.2a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should provide an independent assessment demonstrating why a capital expenditure is appropriate to address the specified harm or need. This should include an explanation of why existing capital equipment, property, or facilities

would be inadequate to addressing the harm or need and why policy changes or additional funding to pertinent programs or services would be insufficient without the corresponding capital expenditures. Recipients are not required to demonstrate that the harm or need would be irremediable but for the additional capital expenditure; rather, they may show that other interventions would be inefficient, costly, or otherwise not reasonably designed to remedy the harm without additional capital expenditure.

3. Comparison of the proposed capital expenditure against alternative capital expenditures

G.3 a. A comparison of the effectiveness of the capital expenditures in addressing the harm identified

The new command post will be a key for the success while enabling collaboration and coordination with the local jurisdictional agencies and first responders for an incident or hazardous event that could potentially involve the loss of life, property and will benefit all the surrounding communities. The upgrades will better serve the ability to collect, analyze, disseminate and transfer information and intelligence that may be connected to the emergency event.
Over the life of the Command post, it could essentially assist every agency and community with in the county as well as surrounding jurisdictions with a multitude of events. Events can range from community events, to vaccination distribution sites, PPE distribution, to the coordination of services during an emergency response to the possibility of assisting as a forward command post during a major incident.
It can provide better networking and information/ intelligence sharing and assist with the coordination of data to provide policy and decision makers in the EOC with real time disaster intelligence to aid in the decision making process.

G.3a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should generally consider the effectiveness of the capital expenditures in addressing the harm over the useful life of the capital asset and may consider metrics such as the number of impacted or disproportionately impacted individuals or entities served, when such individuals or entities are estimated to be served, the relative time horizons of the project, and consideration of any uncertainties or risks involved with the capital expenditure.

G.4 b. A comparison of the expected total cost of the capital expenditures

*An upgraded quote/specification list from the manufacturer would be attached.
Our current command post is 15 plus years old and the cost to maintain it continues to climb with the age. The inability to locate parts such as the ABS unit makes it so the vehicle cannot respond in a variety of weather situations where it would be unsafe to operate.
Upgraded emergency response radio systems would better coordinate across the county jurisdictions with the variety of radios systems the other agencies utilize. All agencies do no operate on one single system to the ability to cross communicate during events is critical.
The new emergency response equipment, technology infrastructure and computer system will better integrate with the command post and allow for better collaboration with the entities operating at the scene. The computer equipped work stations, conference room, and radio dispatch room to provide help in an active situation – whether a hazardous materials scene, accident, natural disaster or coordinating the response to a pandemic. The provision within 1 vehicle would otherwise require input/resources from multiple other outside agencies that would require time or long delay in acquiring.

G.4a	**Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should consider the expected total cost of the capital expenditure required to construct, purchase, install, or improve the capital assets intended to address the public health or negative economic impact of the public health emergency. Recipients should include pre-development costs in their calculation and may choose to include information on ongoing operational costs, although this information is not required.

H	**Equitable Outcomes - Complete it item D.24 is populated with "Yes".**
H.1	**Description of equitable outcome goal and how the proposed program expects to achieve this goal**
	It is for the benefit of all citizens and public safety response departments as well as all first responders and assisting everyone living and working in Kane County. It will Provide the means necessary for the emergency response, coordination of services and response, allow for the multi-jurisdictional approach to solving the problems created by the incident and for community support.

SUPPLEMENTAL DOCUMENT

KANE COUNTY
OFFICE of EMERGENCY MANAGEMENT

Jon Mensching
Acting Director

719 S. Batavia Ave.
Geneva, Illinois, 60134
Office: (630) 232-5985
EOC: (630) 208-8911

August 24, 2023

Written justification from the Office of Emergency Management for the Mobile Command Post project:

1. Description of harm or need to be addressed

Kane County has a population of over 515,000 citizens living across 524 sq. miles, made up of 16 townships and 30 municipalities. Kane County has a diverse population ranging from urban to rural with the highest population living along both sides of the Fox River. There are cities as big as Elgin and Aurora and villages as small as Virgil and Maple Park. The western areas of the county are more rural and may not have the resources and support locally to initially respond to an incident without assistance. Disasters require a coordinated and effective response by an appropriate combination of county, municipal, private-sector, and nongovernmental entities in order to save lives, minimize damage, and provide the basis for long-term community recovery and mitigation activities. This mobile operation center is needed to serve all the residents of Kane County and is essential for special events and emergency responses that occur in Kane County. It is intended to improve emergency management and preparedness capabilities by supporting flexible, sustainable, secure, and strategically located and fully operational mobile command post with a focus on addressing the needs to the emergency. During the response to the pandemic, the existing command center was used to support not only police and fire incident responses, but the public health response for community vaccination centers, being able to reach underserved areas of the county. Not only did it provide the command and control center for these remote operations, at times it initially was used to provide an area to administer vaccines.

The mobile command post will allow for 24/7/365 prompt, efficient, coordinated emergency response to the incident. It can be community centered (at community locations) closer to where the affected areas require the resource. It will enable quicker response and the ability to reach areas of the county that are underserved or areas of small community commerce or areas where there is a lack of accessibility by residents.
The computer equipped work stations, conference room, and radio dispatch room to provide help in an active situation – whether a hazardous materials scene, accident, natural disaster or coordinating the response to a pandemic. The provision within 1 vehicle would otherwise

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require input/resources from multiple other outside agencies that would require time or long delay in acquiring. The delay in acquiring the additional resources and necessary technology would delay getting the vaccine out to the population as quick as possible. That would cause additional harm to the population as the longer the time to deploy the necessary vaccine or life safety measures, the increased risk to the population affected. The effects of the delay in providing the assistance to the residents will filter to the risk of the population contracting the disease and being unable to work which then will have an effect on the economy as businesses are unable to sustain employees and residents are unable to purchase items due to lack of income. Economic recovery is inherent in residents being able to work and have income, the ability of transportation workers to provide the goods to the retailers, business being able to continue to sell goods and services and sustain employees and residents.
Investing in the readiness at all levels enables emergency management to coordinate with the communities; local law enforcement, fire and first response agencies and public health; to create a more efficient, effective and unified response to emergency events.
This will improve the preparedness capabilities to prevent, protect against, mitigate the effects of, respond to & recover from the threats and hazards that pose the greatest risk to the residents of the county.

Additionally, this would be providing the means necessary for the emergency response, coordination of services and response, allow for the multi-jurisdictional approach to solving the problems created by the incident and for support continuity.
The mobile command post vehicle allows for initial on-scene set up of a forward operational center to respond to the incident and local need while awaiting additional resources or attempting to locate an appropriate location to open an on-site facility. Once the initial needs are addressed it can transition into a forward, central location for data sharing, response coordination and informed decision making.
Providing the means necessary for the emergency response, coordination of services and response, allow for the multi-jurisdictional approach to solving the problems created by the incident and for support continuity. It was creating a command and control location for the initial set up of the incident site.
Mitigation by reducing the threat to lives, property and community from future or on-going risks and hazardous incidents. Adding the ability to develop and maintain situational awareness to develop a common operating picture, assist in developing priorities for direction and control and coordination and manage the deployment of resources. Preventing and responding to the increase in violence resulting from the loss of jobs and income due to the public health emergency including civil unrest and civil disobedience.

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The mobile command post was utilized during the public health emergency to assist in the distribution of PPE to emergency response agencies, nursing homes and assisted living facilities and food banks within the county to aid in the loss of critically needed resources due to supply chain issues.

The acquisition of the new Command post allows for better and more coordinated response and collaboration with first responder agencies across the county. The new Command Post will support all the citizens of Kane County, the 16 townships and the 30 cities and villages with the improved Emergency response equipment and upgraded emergency response radio system and enable enhance forward field communications and coordination. The ability to have better collaboration on scene at major incidents, emergency situations, vaccine distribution sites and public events is necessary to enable to provide the resources for data collection and dissemination of the data as well as response to the event. This also allows for the mitigation of events by reducing the threat from future or on-going risks and hazardous incidents. During the response to the pandemic, both with coordinating PPE distribution and vaccination sites, the current command post was found to be limited in its ability. Due to the age and size limitations, the additional technology is necessary to be added to the vehicle to support the virtual world we now work in. It was also demonstrated that the working space was not adequate to accommodate the needs of functioning as a vaccination site until a temporary solution was put in place. This limited the number of vaccines that could be given during a set period.

2. Explanation of why a capital expenditure is appropriate

The replacement of the vehicles and its equipment will allow benefits to the county and the surrounding communities; provides a place for the command and coordination of services and allows for a multi-jurisdictional approach to solving the problem(s) created by the incident.

This Mobile Command post can serve as a satellite emergency service coordination base at the scene of the critical incident or emergency situation and enable to intelligence and date gather to be transmitted to the EOC.

The updated and enhanced emergency response radio system as well as the upgraded emergency response equipment allows us to be better prepared for incidents that require multi-

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agency response. It will allow for better situational awareness as well as forward disaster intelligence to be gathered on scene, and the data transmitted to the EOC. Having a properly equipped and operational command post will allow for better on scene prompt coordination, communications and more efficient response to save lives, save property and the environment

as well as protect the community's interests. All equipment is installed in the vehicle, ready to respond, capable of being operational within a very short amount of time when arriving on scene. If this vehicle was not in place, the length of time it would take to deploy and assemble the equipment in a climate-controlled environment would be greatly extended, reducing the effectiveness of command and control of an incident or event. Emergencies occur in all types and temperatures of weather, which, if forced to work in, reduces the ability of incident command personnel to function in. Likewise, if the vehicle is being used as a vaccination platform, those supplies would have to be delivered and assembled, and a climate-controlled environment would have to be provided as well to carry out the mission. With this capital purchase, it allows everything to be rapidly deployable in one complete package.

3. Comparison of the proposed capital expenditure against alternative capital expenditures

The new command post will be a key for the success while enabling collaboration and coordination with the local jurisdictional agencies and first responders for an incident or hazardous event that could potentially involve the loss of life, property and will benefit all the surrounding communities. The upgrades will better serve the ability to collect, analyze, disseminate and transfer information and intelligence that may be connected to the emergency event.
Over the life of the Command post, it could essentially assist every agency and community with in the county as well as surrounding jurisdictions with a multitude of events. Events can range from community events, to vaccination distribution sites, PPE distribution, to the coordination of services during an emergency response to the possibility of assisting as a forward command post during a major incident.
It can provide better networking and information/ intelligence sharing and assist with the coordination of data to provide policy and decision makers in the EOC with real time disaster intelligence to aid in the decision-making process.

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4. A comparison of the expected total cost of the capital expenditures

An upgraded quote/specification list from the manufacturer would be attached.
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It is for the benefit of all citizens and public safety response departments as well as all first responders and assisting everyone living and working in Kane County. It will Provide the means necessary for the emergency response, coordination of services and response, allow for the multi-jurisdictional approach to solving the problems created by the incident and for community support.

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PRELIMINARY
SPECIFICATIONS FOR:

Kane Cty Emergency Management (IL)

MOBILE COMMAND CENTER

LDV PROPOSAL # C45MCC-34584-22

DATE
~~May 6, 2020~~
~~May 22, 2020 REV1~~
~~June 2, 2020 REV2~~
~~September 24, 2020 REV3~~
~~March 30, 2023 REV4~~
September 15, 2023 REV5

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PRICING PAGE:

Total price per unit as specified, FOB Origin	$1,517,540.00
Delivery charge: Not included	$0.00
Total price per unit	$1,517,540.00

Delivery terms: Ask your Sales Representative.

Payment Terms: 50% down payment, 50% net 30.

Quote is firm for 30 days from specification date.

Quoted price does not include any applicable FET, federal, state or local tax unless specified.

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Item	Qty	
1.00		**CHASSIS/BODY DIMENSIONS:** 33’ dry van wide body • Cab-to-Axle 260" • Wheelbase of chassis: 330" • Overall length of apparatus: 528" • Overall apparatus width, rub rail to rub rail: 102" • Overall height of apparatus (loaded): 149" • Interior walkway height raw body: 83" • Interior walkway height finished: 81.5" • Interior walkway length: 396" • Interior raw body width: 99" • Interior finished body width: 93" Final measurements are dependent on body builder, chassis components, axles, tires, frame, suspension, and roof-mounted equipment.
2.00		**CHASSIS:**
2.01	1	2025 Freightliner M2 106 Conventional cab, Tandem rear axle truck chassis. 56,000-lb. GVWR with rear air ride suspension and air brakes. **ENGINE:** • Cummins L9 360EV HP @ 2200 RPM, 2200 GOV, 1150 LB/FT @ 1200 RPM **ENGINE EQUIPMENT:** • 2016 Onboard Diagnostics/2010 EPA/CARB/GHG14 • 2008 Carb Emissions Certification - Clean Idle (Includes 6X4" label on Lower Forward Corner of Driver Door) • 12v 240 amp 40-SI brushless pad alternator • (2) group 31, 12 volt maintenance free 2000 cca threaded stud batteries • Single battery box frame mounted LH side under cab • Positive and negative posts for jumpstart • 18.7 cfm air compressor with internal safety valve • GVG, fire and emergency service vehicles engine warning • Cummins engine brake integral with variable geometry turbo • RH standard horizontal tailpipe • 6 gallon diesel exhaust fluid tank • Antifreeze to -34f, extended life coolant • Gates blue stripe coolant hoses or equivalent • 1000 Watt/115 volt block heater • 12v 38mt hd starter with integrated magnetic switch **TRANSMISSION:** • Allison 3000 EVS automatic transmission without PTO provision **TRANSMISSION EQUIPMENT:** • Magnetic plugs, engine drain, transmission drain, axle(s) fill and drain • Push button electronic shift control, dash mounted • Transmission oil check and fill with electronic oil level check • Synthetic transmission fluid

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Item	Qty	
		FRONT AXLE AND EQUIPMENT: • 16,000# Drop single front axle • Meritor 16.5x6 Q+ cast spider cam front brakes, double anchor, fabricated shoes • Fire and emergency severe service, non-asbestos front lining • Front oil seals • Automatic front slack adjusters • TRW tas-85 power steering • Synthetic 75w-90 front axle lube **FRONT SUSPENSION:** • 16,000# Taperleaf front suspension • Front shock absorbers **REAR AXLE EQUIPMENT:** • 40,000# R-series Tandem rear axle • 4.88 Rear axle ratio • (1) Interaxle lock valve for tandem or tridem drive axles • Meritor 16.5x7 Q+ cast spider cam rear brakes, double anchor, fabricated shoes • Fire and emergency severe service non-asbestos rear brake lining • Rear oil seals • Automatic rear slack adjusters • Synthetic 75w-90 rear axle lube **REAR SUSPENSION:** • Airliner 40,000# Extra duty rear suspension • Airliner high position ride height • Manual dump valve for air suspension with indicator light and buzzer, without gauge • Rear air suspension dump valve autofill with ignition off or >5 mph • Dual air rear suspension leveling valves • Rear shock absorbers - two axle (tandem) (air ride suspension) **BRAKE SYSTEM:** • Air brake package • 4S/4M ABS • BW AD-9 brake line air dryer with shield, heater and integral reservoir • Air dryer frame mounted • Steel air brake reservoirs • Pull cable on wet tank, petcock drain valves on all other air tanks **FRAME:** • 7/16"x3-9/16"x11-1/8" steel frame • 1/4" (6mm) C-Channel inner frame reinforcement **CHASSIS EQUIPMENT:** • Three-piece 14 inch chromed steel bumper with collapsible ends • Front tow hooks - frame mounted • Bumper mounting for single license plate **FUEL TANKS:** • 50 gallon/189 liter rectangular aluminum fuel tank - RH

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Item	Qty	
		• 50 gallon/189 liter short rectangular aluminum fuel tank - LH • Length of auxiliary pickup tubes (generators, furnaces etc.) shall prevent these devices from using more than 75% of vehicle's fuel tank capacity • Polishing of fuel/hydraulic tank(s) with painted bands • Fuel tank(s) forward • Polished stainless steel step finish • High temperature reinforced nylon fuel line **TIRES:** • Michelin X Line Energy Z 315/80R22.5 20 ply radial front tires (or current model) • Michelin X Multi D 275/80R22.5 14 ply radial rear tires (or current model) **WHEELS:** • Accuride 22.5x9.00 10-hub pilot 6.02 inset 10 hand aluminum disc front wheels • Accuride 42644 AccuLlite aluminum outside, 51408 Accu-Lite steel inside; 22.5x8.25 10-hub pilot disc rear wheels • Bright standard polish front wheels with accu-shield finish • Bright standard polish rear wheels with outer only accu-shield finish **CAB INTERIOR:** • Interior convenience package • Heater, defroster and air conditioner • Standard HVAC ducting • Heavy duty air conditioner compressor • Dome door activated LH and RH, dual reading lights, forward cab roof • LH and RH electric door locks • (1) 12 volt power supply in dash • Premium high back air suspension driver seat with 2 chamber air lumbar, integrated cushion extension, tilt, adjustable shock absorber • Premium high back air suspension passenger seat with 2 chamber air lumbar, integrated cushion extension, tilt, adjustable shock absorber • Dual driver and passenger seat armrests • Black mordura cloth driver seat cover • Black mordura cloth passenger seat cover • High visibility orange retractor driver and passenger seat belts • Adjustable tilt and telescoping steering column **CAB EXTERIOR:** • 106" BBC Flat roof aluminum conventional cab • Leaf spring rear cab suspension • Nonremovable bugscreen mounted behind grille • LH and RH exterior grab handles with single rubber insert • Hood mounted chromed plastic grille • Dual electric horns • Door locks and ignition switch keyed the same • Dual west coast bright finish heated mirrors with LH and RH remote • LH and RH 8" bright finish convex mirrors mounted under primary mirrors • RH down view mirror

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Item	Qty	
		• Omit rear window • Tinted door glass LH and RH with tinted operating wing windows, and tinted windshield • RH and LH electric powered windows **INSTRUMENTS & CONTROLS:** • 97 db backup alarm • Electronic cruise control with switches in LH switch panel • 2 Inch electric fuel gauge • Programmable rpm control - electronic engine • Electrical engine coolant temperature gauge • 2 Inch transmission oil temperature gauge • Engine and trip hour meters integral within driver display • Electric engine oil pressure gauge • AM/FM/WB Radio with bluetooth, and USB and front auxiliary inputs dash mounted radio • (2) radio speakers in cab • AM/FM Antenna mounted on forward LH roof • Electronic mph speedometer with secondary kph scale, without odometer Note: Chassis specifications are from Freightliner Custom Chassis and are subject to change without notice.
2.02		**CHASSIS WARRANTY:** • Two (2)-year/unlimited miles Freightliner M2 chassis warranty. • Two (2)-year/100,000 mile Cummins engine warranty. • Five (5)-year/unlimited miles Allison transmission warranty.
2.03	1	Kleinn Roof Mount Dual Truck Horns 401
2.04	1	Chassis starter interlock system. • Chassis starter is disabled when any of the connected systems is not ready for vehicle travel. • Dash mounted indicator light(s) show which device is engaging the interlock. • Override button allows for moving the vehicle in an emergency situation.
2.05	1	Block heater shall be controlled through the Intel-I-Touch™ multiplex control screen.
2.06	1	US DOT triangle reflector kit with three (3) triangles, for compliance with FMCSA regulations. Includes plastic storage case. Kit will be shipped loose in the vehicle.
2.07	2	Pair of rubber wheel chocks with rope handle, shipped loose in the vehicle.
2.08	1	Route horizontal exhaust to streetside.
3.00		**BODY:**
3.01	1	• Load space area shall be 83" high x 99" wide x 33' long custom all aluminum dry van body with the following: • Aluminum alloy double H wall beam, 6005-T5 alloy, 3" deep x 1.5" wide, 0.125 wall thickness. Studs feature machined wire pass-throughs, and raised adhesive control features on base. • I-beams chemically bonded to sidewalls eliminating the need for additional rivets. Buck-rivets will be used to fasten the top, bottom and rub rail. Use of two-sided tape is not acceptable. • Body shall have 0.125" strain-hardened aluminum alloy 5052-H36 side panels. The upper panels shall be free of rivets allowing for smooth graphics application.

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Item	Qty	
		• Skirt supports,1.5 x 1.5 x 0.125 angle to reinforce skirt edge and hold bottom edge in a straight line. 0.188 x 1.00" flat braces placed at 4' intervals and riveted to lower wall angle and floor to maintain sidewall skirt rigidity. • Fender flares, 1.38" x 2.25" x 0.090" roll formed and radiused 5052-H32 aluminum sheet, mechanically fastened to wheel opening. Edges sealed against moisture. • NFPA 1901 embossed 0.125" aluminum tread plate roof attached to 3" x 1 1/2" x 0.125 extruded aluminum roof bows on 16" centers. Bows are 2" skip welded every 12" Tread plate seams shall be continuous welded. Perimeter of roof shall be chemically sealed. • Extruded aluminum floor with interlocking planks, 1.88" high x various widths, 0.125" top surface. 6005-T5 alloy and temper. Heavy-duty thick-wall extruded planks fore and aft of all floor cutouts and every 5th plank in all other areas. Planks made of 6005-t5 alloy and temper, 0.250" thick top surface. • Full width 12" deep heavy-duty aluminum rear bumper with center step, painted to match the body. • Full length skirting below floor. • All clearance and side marker lights to be LED. • Standard structural warranty of 5 years or 50,000 miles and standard component warranty of 12 months or 12,000 miles. • The vehicle shall be fully sanded on all exterior surfaces with no more than 150 grit to assure removal of imperfections in metal surface. All aluminum shall be chemically etched and primed prior to painting. Base body color shall be oven baked and painted to commercial truck standards. Note: Specifications are from body manufacturer and are subject to change without notice.
3.02	1	Rear underbody skid bar. Protects rear bumper and skirts from possible damage caused by steep grades. Includes: • 3 ½" steel tube across the width of the vehicle mounted to the frame with steel channel and supported diagonally from the ends to the frame mounts • Steel tube is capped on the ends and mounted just below the skirting
3.03	1	32" wide aluminum sedan door installed above floor. Includes 21.5" wide x 25.5" high fixed window. Door shall have continuous stainless-steel piano hinge, two (2) nylon door straps and an aluminum drip rail. **NOTE:** Interior window covering will be a mini blind. Side entry door.
3.04	1	Pull out aluminum stairs encased in a narrow profile cassette installed below floor line, eliminating the need for an interior stepwell. Includes exterior fold out handrail. **NOTE:** Curb side entry streps.
3.05	1	32" wide aluminum sedan door installed above floor. Door shall have continuous stainless-steel piano hinge, two (2) nylon door straps and an aluminum drip rail. **NOTE:** Street side bathroom entry door.

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Item	Qty	
3.06	1	Underbody compartment with steps for exterior lavatory access. Includes exterior fold out handrail. **NOTE:** Street side bathroom entry steps.
3.07	1	Exterior heavy-duty fluted aluminum grab handle with rubber inserts and chrome plated stanchions installed at entry door. **NOTE:** Street side bathroom entry steps.
3.08	2	Interior heavy-duty fluted aluminum grab handle with rubber inserts and chrome plated stanchions installed at entry door. **NOTE:** Located on entry and bathroom doors.
3.09	2	Wire one of the overhead lights to function as a courtesy light when the entry door is opened. **NOTE:** Entry door and Bathroom courtesy light.
3.10	2	Whelen PEL2C automatic courtesy LED light at lower portion of the entry door with chrome housing. **NOTE:** Illuminate steps when door is opened. One (1) light mounted outside of each door.
3.11	1	Courtesy light defeat in Intel-I-Touch™ multiplex control screen. Each entry door courtesy light will be automatically deactivated where the corresponding room has the overhead lighting set to night mode.
3.12	1	Slide out light defeat and steady/flashing control through Intel-I-Touch™ multiplex control screen.
3.13	1	TriMark keyless entry with remote radio frequency (RF) transmitter fob, externally mounted keypad and lock actuator. **NOTE:** Side entry door
3.14	3	TriMark keyless entry, additional key fob.
3.15	1	Whelen Stop/Turn/Tail/Backup light set. Includes two of each of the following: • Whelen M6FCV4 polished chrome vertical housings for four M6 series lightheads. The fourth light head will be an emergency flasher as specified in the DC Emergency Lighting section. • Whelen M6 series LED arrow shaped amber turn signal, model number M62T. • Whelen M6 series LED brake/tail light heads, model number M62BTT. • Whelen M6 series LED back-up light heads, model number M62BU.
3.16	1	Cast Products LP0004-1-B aluminum license plate mounting frame with LED light.
3.17	1	Entire underside shall be undercoated. Includes floor extrusions, step wells and aluminum compartments.
3.18	1	LDV rear mud flaps. Includes anti-sail brackets when required.
3.19	4	Flat floor slide-out room extension fabricated with a structurally rigid welded aluminum tube design with a fully bonded aluminum shell. During deployment an electronic control system automatically expands the room extension and lowers the floor to flush position. Features:

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Item	Qty	
		• Electric over hydraulic control system programmed to lower the slide out to floor height after full extension. • Awning that automatically extends and retracts over the top of the room to protect from weather and debris. • Full perimeter double rubber bulb seal with an additional seal in the fully extended and fully retracted positions. • No track or hardware shall be attached to the ceiling of the body. **NOTE:** Two (2) 130", one (1) 116", one (1) 111" long x 30" deep (full extension of 26").
3.20		Ignition Interlock to prevent vehicle from starting when any of the external extension devices are deployed.
3.21	8	Flashing warning light for slide out. **NOTE:** Amber LED color.
4.00		**PAINT / GRAPHICS:**
4.01		Body base color shall be white. **NOTE:** Graphics layout TBD.
4.02	2	4-inch wide reflective stripe on the exterior back and sides of the vehicle. **NOTE:** One (1) red and one (1) white
4.03	1	Custom computer-generated reflective vinyl graphics per customer specifications. Includes up to seventy 8"-10" letters and up to forty-five 3"-6" letters. All lettering shall be shaded or outlined (colors/style ~ to be determined). Note: Graphics package does not include production of custom shields and/or seals.
4.04	5	Custom computer-generated non-reflective vinyl shield. Customer shall supply true vector artwork required to produce shield.
4.05	4	Graphic lettering on interior slideout header **NOTE:** Wording TBD
5.00		**INDEPENDENCE ONYX INTERIOR:** • Wall Covering: Chrome carpet front and rear room, Brushed Stainless laminate in center area. • Pocket doors and bulkheads: Brushed Stainless laminate • Ceiling Fabric: Silver Mist • Floor Covering: #150 Onyx PVC Flooring • Office Chairs: Black • Vinyl Coverings: #WH1-2140 Whisper Black • Cabinets: Charcoal Gray (refer to Cabinet Section for material detail) • Counters and Tables: Midnight Melange Solid Surface #9091-ML (refer to Cabinet Section for material detail) Note: Manufacturer reserves the right to substitute equivalent materials.

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Item	Qty	
6.00		**DRIVER / PASSENGER CAB AREA:**
6.01		Cab Area Additions: • Vehicle height sign on dash. • Vehicle shall have a Final Stage Vehicle Certification and Altered Vehicle Certification as required by Federal Motor Vehicle Safety Standards (FMVSS) 49 CFR Part 567.5 and 567.7 • Payload sticker in cab area with vehicle axle load ratings and available axle payload as built.
6.02	1	Custom fabricated console in cab, for locating siren controller, police radio and/or other controls as specified elsewhere in this document.
6.03	1	Three (3) camera rear view system with 7" LCD color monitor. System includes left, right, and rear vision day/night cameras. Rear camera includes a microphone for audio commands from a spotter to the driver during backing operations.
6.04	1	HAVIS universal tablet mount UT-2001 dash mounted with swivel and tilt device. (C-HDM-135, C-HDM-303, C-MD-202). **NOTE:** Mount for Apple iPad.
6.05	1	Door ajar warning on multiplex system. **NOTE:** Includes body side entry door, restroom entry door and all compartments. Does not include Driver or Passenger Door. This warning does not lock out the chassis ignition – warning only.
6.06	15	Door ajar contact/magnet.
7.00		**WALLS, CEILING AND FLOOR:**
7.01		Insulate walls with a minimum of 2-1/2" of fiberglass insulation. Cover interior body side posts with 1/2" plywood sub wall.
7.02		Cover sub wall with ribbed loop pile carpet. **NOTE:** Located in Front and Rear rooms – Color TBD
7.03		Cover sub wall with Wilsonart laminate. **NOTE:** Located in the center room area (bathroom, galley, and rack areas).
7.04		Insulate ceiling with a minimum of 2-1/2" of fiberglass with an R-11 rating. • Cover interior roof beams with 1/2" plywood. • Modular panel design allows for manageable future additions and repairs. • Plywood Panels covered in acoustical fabric.
7.05		Floor underlayment to be 5/8" exterior grade tongue and groove structural plywood, 6 ply, face veneer plugged and sanded.
7.06		Lonseal Loncoin II Flecks non-skid commercial grade PVC flooring. The flooring shall be continuous, one piece full length, full width, no seams.
7.07		Vinyl cove molding (mop board) at base of wall, 2-1/2” high. Installed where required.
7.08	2	Flush pocket door covered in laminate, installed on heavy-duty aluminum c-channel track with two (2) three-wheel roller trucks and soft open/close feature. Pocket door shall have recessed handle and magnetic closure to keep the door open/closed.

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7.09		All bulkheads shall be covered with Wilsonart laminate. Trim exposed edges of bulkheads with rounded anodized aluminum trim where applicable.
7.10	2	Cover load space door with powder coated aluminum panel with heavy-duty rubber grab handle. **NOTE:** Interior window covering will be a mini blind. Match cabinet color of charcoal gray
7.11	1	Hehr Street side mounted 36" wide x 24" high flush mount deep-tint horizontal sliding egress window with screen. **NOTE:** Interior window covering will be a mini blind.
8.00		**GALLEY / LAVATORY:**
8.01	1	Keurig Coffee maker.
8.02	1	Norcold model DE105 (or current model) 12Vdc/120Vac combination refrigerator/freezer. Features: • 3.3-cu.ft. Capacity. • Two white powder-coated wire shelves with raised lip • Dual clear door bins • LED interior light **NOTE:** Interior galley.
8.03	1	Pressurized Lavatory Water System. Includes: • Thetford Foot Pedal Flush model 31661 (or current model) low-profile toilet in lavatory. • One (1) chrome plated toilet paper holder in lavatory. • Fresh water/waste tank level monitor in lavatory. • Aqua Jet model #5503-AV15-B636 (or current model) 5.3 GPM water pump with accumulator tank. • One (1) 25 gallon fresh water supply and one (1) 30 gallon waste tank. • Plumbing pressure pipes shall be PEX tubing. • Underbody fresh water and grey water tanks are to be heated and all plumbing insulated and wrapped with heat tape. • Sewage hose and dump valve shall be provided for holding tank. • Winterizing valve mounted in line on the input side of the water pump. Valve allows antifreeze to be pumped throughout the system to winterize plumbing.
8.04	1	Wastebasket with hold-down bracket.
8.05	1	Sani-Dex Antimicrobial disposal 135 count hand wipe canister with wall bracket.
9.00		**SEATING:**
9.01	14	Space Air Grid office chair 5560 black with armrests, five caster spider base, and adjustable height. **NOTE:** Do not install arms on chairs. Ship arms loose if customer would like them.
9.02	8	Securement strap with buckle installed under counter to secure office chair.
9.03	6	Chair restraint bracket charcoal gray powder coat aluminum.

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Item	Qty	
9.04		Fabricate and install flip-down bench seating as shown on drawing. Bench seat cushions shall be covered in heavy-duty vinyl. Bottom seat cushion will be installed on Zico Quic-Seat® fold down spring loaded seat brackets.
9.05		**BENCH SEAT REQUIREMENTS:** • Foam for seat backs and bottoms shall be firm density. • All bench seating material must meet Federal Motor Vehicle Safety Standards part 571.302 Flammability of Interior Materials. • Material corners shall be squared or angled to fit precise cut of foam. • Foam shall be bonded to plywood backer with industrial grade adhesive. • Attachment of fabric/vinyl to backer shall utilize industrial grade upholstery staples.
10.00		**CABINETS:**
10.01		Custom fabricated aluminum cabinets located as shown on drawing. Cabinet specifications: • Base cabinets constructed of 0.080" powder coated aluminum with anodized aluminum frames. • Base cabinet doors are double shell, formed from a single sheet of 0.080" aluminum, with a 0.040" aluminum door back attached. • Overhead cabinets constructed of 0.064"powder coated aluminum with anodized aluminum frames. • Overhead cabinet doors are double shell, formed from a single sheet of 0.064" aluminum, with a 0.040" aluminum door back attached. • Overhead cabinet doors swing up with gas spring lift supports.
10.02		Radius edging incorporated as design permits.
10.03	9	Dry erase writing surface on overhead cabinet door.
10.04	10	Gas spring lift supports on overhead cabinet door.
10.05	8	LED light with on/off switch, mounted under overhead cabinet.
10.06	15	Magnetic dry erase board framed in aluminum. Includes aluminum clip frame for easy board replacement, sized as required.
10.07	4	Magnetic dry erase marker caddy kit.
10.08	2	FRP shelf up to 36” wide with 2" lip at front edge.
10.09		Closet shelves shall be infinitely adjustable using mini B-line track and hardware.
10.10		Wilsonart Gibraltar 1/2" solid surface countertop over subsurface. Solid surface countertop shall have a 1-1/2" front lip with radius edge.
10.11		Wilsonart Gibraltar 1/2" solid surface conference tabletop over subsurface. Solid surface tabletop shall have a 1-1/2" front lip with radius edge.
10.12	1	Powder coated 0.125" aluminum conference table base.
10.13	9	Computer cable pass-thru grommet in counter or conference table. Satin nickel 2-1/2" two-piece metal desk grommet - 3" overall diameter. **NOTE:** Located at workstations and conference table.
10.14	1	Install a key display board inside overhead cabinet and clearly tag all keys for the vehicle as to their purpose.
10.15		Custom fabricated console to house electrical distribution components and control panels.

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Item	Qty	
11.00		**HVAC SYSTEM:**
11.01	1	Fan-tastic Vent model 1450 3-speed reversible 12" power roof ventilator.
11.02	5	Ducted low profile rooftop air conditioner controlled through multiplex control system. Includes: • 15,000 nominal Btu/hr air conditioner with condensate pump. • Chill Grille Assembly with 6,000 Btu/hr heat strip • Louvered Ceiling Vents, as required
11.03	3	5,100-12,000 Btu/hr direct discharge, 12Vdc powered, diesel-fired furnace with individual thermostat control. Exhaust shall be routed to the street side.
12.00		**AC ELECTRICAL SYSTEM:**
12.01	1	Power Tech 25-kW 120/240Vac liquid-cooled diesel generator with air bag mounts installed in a custom fabricated compartment. Generator features: • Tier 4F Emissions • USTC Certified Manufacturer • Warranty: 2 years from date of purchase, or 3000 hours whichever comes first, or 36 months from the date of manufacture. • Four point air bag mounting system • Four-cycle water cooled diesel engine • Radiator cooled, direct mounted • High-coolant temp and low oil pressure shutdown sensors • Spin-on fuel and oil filter • Single side service • Typical Gallon Per Hour fuel consumption: 25% load = 0.51, 50% load = 1.01, 100% load = 2.03 Compartment shall be constructed to the following specifications: • 0.187" aluminum with all welded seams. • 2" deep 0.125" aluminum box pan doors and 0.125" aluminum frames. • Door frames riveted to the body and welded to the compartments. • Stainless steel door hinges attached with stainless steel machine screws. • Flush mounted door handles with slam latches. • 0.100" aluminum treadplate panels on interior door surfaces. • Gas charged lift/support cylinders to hold doors open at 90°. • Industrial grade neoprene gasket door seals. **NOTE:** Generator exhaust shall be routed to the street side of the vehicle.
12.02	1	ACData surge suppressor for protection of entire AC power system. Product features: • UL listed: UL1449 3rd Edition • LED visual verification of status
12.03	1	LDV exclusive Intel-I-Touch™ vehicle automation control system. A multiplexed vehicle automation system must be incorporated into a common touch screen(s) that is custom programmed to monitor and control onboard systems as described throughout the specifications. The automation system software must allow simultaneous distribution of information to multiple onboard control/monitoring stations and the software must be

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Item	Qty	
		updateable and configurable as required. This system is mandatory as it simplifies start up procedures, contains fewer operating components, reduces operational start-up time, reduces the total amount of wiring in the vehicle and includes error detection protocols and troubleshooting features. Features include: • One (1) 10” LCD touch screen with custom graphics for control and monitoring systems • AC power distribution control and monitoring for the generator with power management • DC power distribution control and monitoring • Manual or automatic generator control • HVAC and temperature control. • Interior and exterior lighting control • Automatic power transfer switches • Automated startup and shutdown procedures • Seamless control of generators, lighting, awnings and additional devices • Mast control • Safety interlocks • Battery saver feature • Generator Service Alerts The system must be completely upgradeable with power modules located throughout vehicle. Additional components may be added to system with a simple software modification System capability is not to be achieved with use of multiple monitoring systems designed for specific use i.e. water monitors, battery monitors etc. **NOTE:** 10" screen located inside at side entry door
12.04	1	Additional 10” LCD touch screen with custom graphics for control and monitoring systems. All touch screens provide complete control and monitoring of vehicle systems. **NOTE:** 2nd 10" screen located cab center console.
12.05	1	3” Touch panel for dedicated local control and monitoring of specific vehicle automation system features. Includes control layout and indicators where applicable.
12.06	2	3” Touch panel with numeric display for dedicated local control and monitoring of specific vehicle automation system features including room HVAC. Display shows current room temperature and HVAC setpoint when adjusted. Includes control layout and indicators where applicable.
12.07		**Storage Mode** maintains the vehicle in a ready-to-deploy condition. Battery chargers, specified outlets, and other pre-determined equipment is powered. HVAC is maintained at a storage mode setting to prevent freezing in the winter or overheating in the summer. The generator can be set to automatically start in the event of a loss of shore power. Other items as necessary can be made available in Storage Mode.

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12.08		**Travel Mode** places the vehicle in a ready-to-travel condition based on vehicle application and equipment. In most cases this includes: starting the generator and transferring off of shore power, turning on HVAC and adjusting temperature to normal operating setpoints, stowing all equipment for travel, powering up communication gear. Travel Mode is a custom programmed, automated process similar to the Auto Startup and Auto Shutdown.
12.09		**Night Time (Red) Lighting Mode** turns the ceiling lighting in each room from white to red lights.
12.10		**Reduced Lighting Mode** is white ceiling lighting in each room have the option of All-On or Half-On.
12.11	1	Kussmaul Auto Eject 20, 20A-120Vac shore power inlet with 25-ft. 20A-120Vac shore power cord. #091-20WP-120RD.
12.12	1	Marinco 100A-125/250Vac waterproof shore power inlet, 25-ft. 100A-125/250Vac shore power cord and 6-ft. 100A-125/250Vac pigtail.
12.13	7	20A-125Vac duplex receptacle. Receptacle is not dedicated to any installed equipment. **NOTE:** Locations: • One (1) at each Workstation 1-6 in raceway • One (1) in the Upper Cabinets
12.14	13	20A-125Vac duplex receptacle with dual USB charging ports [one (1) Type A and one (1) Type C]. Receptacle is not dedicated to any installed equipment. **NOTE:** Locations: • One (1) at each workstation 1-6 in the raceway • One (1) streetside rear slide out above the countertop in the Raceway • One (1) in the Rear Wall above Countertop • One (1) above Refrigerator in raceway • Two (2) in Conference Area Table Base • One (1) in Curbside Bench Seating Base • One (1) in Streetside Bench Seating Base
12.15	3	20A-125Vac GFCI duplex receptacle. These receptacles are not dedicated to any installed equipment. **NOTE:** Locations: • One (1) galley "HOT ON AUTO EJECT" • One (1) in each Exterior Workstation [qty. 2]
12.16	1	30A-120 Vac receptacle in electronics rack for UPS.
12.17	4	20A-125Vac exterior GFCI duplex receptacle. **NOTE:** Locations: • One (1) at each of the Four Corners. Receptacle will be installed with a weatherproof cover.

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Item	Qty	
12.18		Wire chase wire management raceway system located as shown on drawing. Product features: • Satin anodized finish. The finish resists rust, corrosion and fading. Material extruded from 6063-T5 aluminum alloy. • Removable dual cover. Makes wiring easy and accessible and provides maximum flexibility for adding or relocating outlets and circuits. The cover retention is 45 lbs. straight pull for one minute. • UL Listed multioutlet assemblies. File E68073 Guide PVGT, Fittings: File E121188 Guide RJPR. Meets Article 380 of NEC and meets Section 12-3032 of CEC. • UL and cUL Listed component raceways. File E73943 Guide RJBT, Fittings: File E74343 Guide RJPR. Meets Article 386 of NEC and meets Section 12-600 of CEC. • UL5 and ADA compliant. Raceway and fittings meet UL5 specifications and can be installed in conformance with ADA requirements
12.19	1	APC Smart-UPS 3,000VA rack mount UPS, SRT3000RMXLA (or current model). Product features: • 3,000VA/2,700W output capacity • 120V output voltage • (8) NEMA 5-20R and (1) NEMA L5-30R output receptacles • Typical Backup Time at Half Load 19.2 minutes (1125 Watts) • Typical Backup Time at Full Load 5.7 minutes (2250 Watts) • Dimensions: 3.35”H x 17”W x 25”D
12.20	1	APC AP9631 UPS network management card with environmental monitoring.
12.21	7	Red specification grade 20A-125Vac duplex receptacle with stainless steel wall plate located as shown on drawing. These receptacles are dedicated to the UPS/Inverter as specified elsewhere in this document. **NOTE:** Dedicated to the UPS from the computers and the left monitor at each workstation (or single monitor at front conference room workstation).
12.22		**AC WIRING REQUIREMENTS:** • All AC main wiring shall be stranded THHN wire and run in non-metallic liquid tight conduit. • All AC branch circuit wiring shall be stranded THHN wire (AWG 12 minimum) and run in non-metallic liquid tight and ENT conduit. • All electrical circuits and appliances shall conform to applicable national electrical codes.
13.00		**DC ELECTRICAL SYSTEM:**
13.01	1	• Six (6) Lead acid deep-cycle 6Vdc batteries. Batteries shall be installed underbody in slide out weather resistant compartment. Four (4) batteries will be separated for auxiliary equipment and two (2) batteries will be for communications equipment. • Three (3) electronic converter/chargers, 80 amp minimum output each installed underbody in weather resistant climate controlled. Compartment to draw ambient air from interior of truck and will have thermostatically controlled exhaust fan to circulate warm air to exterior (no exceptions). Converter/charger features: • Charges three banks of batteries at the same time. • UL listed for safety. • Manual reset circuit breaker.

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Item	Qty	
		• Reverse battery protection. • Electronic current limiting. • High voltage protection. • All DC electrical and metering switched and monitored through the multiplex system.
13.02	1	Sure Power 3003 (or current model) isolator.
13.03	22	Light, Orion 6" LED, neutral white with polished bezel and voltage regulation.
13.04	18	Light, Orion 6" LED, neutral white / red with polished bezel and voltage regulation.
13.05	8	Whelen M9LZC Gradient LED Scene Light with chrome flange.
13.06	9	Whelen PEL2C LED light with chrome housing. **NOTE:** One (1) on bathroom door Eight (8) exterior lower perimeter
13.07	10	12VDC dual USB power port. **NOTE:** Three (3) in each Exterior TV compartment [qty.9] One (1) in cab console
13.08		**12VDC WIRING REQUIREMENTS:** • 2-gauge minimum copper stranded battery cable shall be used for 12Vdc main supply lines. All cable runs shall be full length, no splices. All cable terminals shall be staked and soldered. All cable shall be enclosed in convoluted polyethylene tubing and the ends of the cable shall be sealed with color-coded shrink-wrap identifying the function of the cable. • All added electrical branch circuits shall be protected from over-current by resettable circuit breakers appropriately rated for the load. Only circuit breakers shall be used in the installation of added electrical branch circuit wiring (plug type fuses are unacceptable). • Circuit breaker functions shall be identified by engraved or printed labels. • All added wiring for load runs of AWG 10, 12, 14, and 18, shall conform to MIL-W-16878/2 and/or UL1007/1569” • All added wiring for load runs of AWG 8, shall conform to MIL-W-16878/3 and/or UL1028 • Wire terminals for added circuits must conform to MIL-T-7928. Terminals shall be insulated, insulation grip, TYPE II, CLASS 2 and shall be crimped with tooling recommended by the terminal manufacturer. • All wiring shall be numbered or lettered on 6" centers minimum. • Wiring shall be protected from chafing and abrasion with convoluted polyethylene tubing (wire loom) as required. • Where wire passes through sheet metal, bulkheads and structural supports, plastic grommets shall be used to protect both wiring and wire looms. • All wire bundles shall be tied with trimmed nylon ties. • Extreme care shall be exercised to provide for easy serviceability of the system in future years. • Extreme care must be taken in the installation to avoid the engine manifold, engine exhaust, and muffler, which could expose the wiring to severe overheating during long periods of operation. Proper insulation and heat deflection panels must be installed in such areas. • A high-current 12Vdc system wiring schematic shall be provided. • These are the minimum acceptable 12Vdc wiring requirements.

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Item	Qty	
14.00		**EMERGENCY LIGHTING / SIRENS:**
14.01	1	Whelen Core CCTL6 Siren Controller and hardware. Includes: One (1) C399 – Core, Amplifier One (1) CCTL6 – WeCanX Control Head W/Rotary Knob, Controller One (1) CEM16 – WeCanX16, Expansion Module One (1) WCCBL100 – WeCanX Communication Cable, Ext Cable One (1) CANLITEB, Light sensor-Black, dash board **NOTE:** Customer providing custom light program file for upload
14.02	1	Federal Signal 200W E-Q2B electronic siren. Features: • Features the traditional trademarked Q-Siren sound. • 122 decibels at 10 feet. • Noise canceling microphone included. • New keypad features backlit membrane switches with tactile feel. • Improved power connector ensures increased reliability and connection strength. • Choice of Surface or Flush Mount control head. **NOTE:** Park kill option for siren.
14.03	2	Footswitch option for Federal Signal 200W E-Q2B electronic siren. **NOTE:** Locate: one (1) Driver and one (1) passenger #430089 FOOT SWITCH BUTTON FOR AIR HORN/Q2B SIREN
14.04	2	Whelen SA315P high performance speaker, with bracket.
14.05	2	Whelen model L41 Series super LED (or current model) green command strobe mounted on roof. • 12 VDC or 24 VDC • 12V - 1.5 Amp (peak), 0.6 Amp (average) • 4-3/4" H x 6-7/16" Dia. **NOTE:** Controlled through Intel-I-Touch
14.06	2	Whelen TLIR ION-T- Series™ Linear Super-LED® Red with clear outer lens & TIONFC chrome flange. **NOTE:** Grill
14.07	2	Whelen TLIB ION-T- Series™ Linear Super-LED® Blue with clear outer lens & TIONFC chrome flange. **NOTE:** Grill
14.08	7	Whelen M6 series, M6RC (or current model), Linear Super-LED lighthead with internal flasher, RED LED's with CLEAR outer lens. Includes M6FC chrome flange. **NOTE:** One (1) in rear tail light housing

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Item	Qty	
14.09	3	Whelen M6 series, M6BC (or current model), Linear Super-LED lighthead with internal flasher, BLUE LED's with CLEAR outer lens. Includes M6FC chrome flange. **NOTE:** One (1) in rear tail light housing
14.10	2	Whelen M7 series Linear Super-LED lighthead with internal flasher, RED LED's with clear outer lens. model M7RC Includes chrome flange M7FC.
14.11	4	Whelen M7 series Linear Super-LED lighthead with internal flasher, BLUE LED's with clear outer lens. model M7BC Includes chrome flange M7FC.
14.12	10	Whelen M9 series, M9RC, Linear Super-LED lighthead with internal flasher, RED LED's with CLEAR outer lens. Includes chrome flange.
14.13	4	Whelen M9 series, M9BC, Linear Super-LED lighthead with internal flasher, BLUE LED's with CLEAR outer lens. Includes chrome flange.
14.14	1	Opticom Emitter mounted on antenna raceway (or custom fabricated bracket) **NOTE:** Opticom turns off when vehicle is placed in park.
15.00		**AUDIO / VIDEO:**
15.01	11	LG 24" Black 720P LED HDTV - 24LM530S-PU Features: • 720P resolution • (2) HDMI inputs • (2) Speakers **NOTE:** Located (2) at each rear room workstation and One (1) at workstation in conference room
15.02	3	Samsung - 43" QLED TV QN43Q60AAFXZA with wall mount bracket. Product features: • Resolution 4K • (3) HDMI, (2) USB • (2) Speakers • DTV Tuner/ATSC / Clear QAM • Dimensions: 38"(W) x 22"(H) x 1"(D) Weight 18.5lbs **NOTE:** Located - (2) in Front Slide Outs and (1) on Rear Wall
15.03	1	Samsung 65" QLED TV (QN65Q60AAFXZA) with wall mount bracket. Product features: • Resolution 4K • (3) HDMI, (2) USB • (2) Speakers • DTV Tuner/ATSC / Clear QAM • Dimensions: 57.1"(W) x 32.7"(H) x 1"(D) Weight 46.1lbs **NOTE:** Located on front wall.

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Item	Qty	
15.04	2	Samsung 55" The Terrace Partial Sun Outdoor Black QLED 4K Smart TV QN55LST7TAFXZA • Resolution 4K • (3) HDMI, (1) USB • (2) Speakers • DTV Tuner/ATSC / Clear QAM • Dimensions: 49.1"(W) x 28.7"(H) x 2.4"(D) Weight 64.6lbs **NOTE:** Locations: Exterior workstations.
15.05	2	Weatherproof single door exterior work station and TV/monitor compartment. Constructed from 0.125" aluminum with all welded seams and hinged at the top. Includes: • Internal flip down work surface • LED strip light (illuminates when door is opened) • Gas charged lift support and locking latch
15.06	1	Four (4) AXIS P1224-E IP cameras for perimeter surveillance. • 1 - rear view • 1 - front view • 1 - left side view • 1 - right side view Includes: One (1) AXIS T8705 Video Decoder to send camera quad view to matrix switcher.
15.07	4	SD Memory Card for IP camera. The SD card shall record IP camera allowing it to be downloaded and viewable via an IP address. **NOTE:** 64GB. Each camera will include SD card for recording.
15.08	1	JACK® model OA8500 Digital HDTV Antenna + Mount with SureLock™ DTV Signal Meter. No crank up, built in Amplifier and 360° rotation for improved reception.
15.09	1	HE Series 24 position Passive Combiner. **NOTE:** Combiner used to distribute over-the-air signal to all televisions.
15.10	1	Extron DXP 1616HD 4K PLUS 16X16 HDMI Matrix Switcher. 60-1497-01 **NOTE:** Inputs (12 of available 16): • (2) Decoder displaying Mast Camera • (1) Decoder displaying Perimeter Cameras (Quad View) • (5) Computer Inputs from Rear Slide Outs (Same as left screen) • (1) Computer in Front Slide Out Workstation • (1) HDMI Input Jack in Exterior TV Workstation • (1) Sharelink • (1) Scaler Outputs (12 of available 16): • (1) 65" Monitor on the Front Wall • (3) 43" Monitors - (2) in Front Slide Outs and (1) on Rear Wall

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Item	Qty	
		• (5) 24" Right Monitor at each Rear Room Workstation • (1) 24" Monitor in Curbside Front Slide Out Workstation • (2) 55" Exterior Monitors
15.11	3	Extron MKP 2000 X-Y Remote Control Panel for Extron Matrix Switchers.
15.12		Extron XTP SR HD 4K XTP 4K Scaling Receiver • Receives video with embedded audio, bidirectional RS-232 and IR, and Ethernet up to 330 feet (100 meters) over a shielded CAT6 cable • Advanced Extron Vector™ 4K scaling technology • Selectable output rates from 640x480 to 3840x2160 • HDCP 2.2 compliant **NOTE:** This Extron system will provide Composite AV, VGA and HDMI at each location and will support the latest standards.
15.13	1	Extron ShareLink Pro 500 Series Wireless Collaboration Gateway Key Features • Wirelessly share content from personal mobile devices • Supports Microsoft Windows® and OS X® computers as well as Apple® and Android™ smartphones and tablets • Integrated dual band wireless access point at 2.4 GHz or 5 GHz • Provides full screen mirroring for Apple iOS devices1 • Dedicated mobile app, MirrorOp® for Extron ShareLink™, for reliable iOS and Android content sharing
15.14	2	HDMI input jack, wall plate and cable. **NOTE:** • One (1) at each Exterior Workstation
15.15		HDMI connection cables, as required.
15.16	1	Bogen TPU-15 (or current model) paging amplifier with two (2) Whelen SA315P (or current model) speakers. **NOTE:** Both speakers mounted on Curbside of Raceway.
15.17	1	Audio Technica wireless microphone system interfaced to Bogen paging amplifier.
16.00		**MAST AND MAST MOUNTED EQUIPMENT:**
16.01	1	Fireco 2300 series CX.4003N heavy-duty non-locking telescoping pneumatic mast. Mast features: • 187 lb. max top load capacity • 38' 9" extended height • 6' 9" nested height Includes: • KEY-WAY breakaway nylon key prevents tower rotation. Easily replaceable. • Air safety valve for over pressure release and condensation drainage. • Water drainage holes to avoid freezing at low temperatures. • Interlock to prevent vehicle from being driven with mast raised. • Fireco tower does not require routine lubrication.

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Item	Qty	
		• Mast cap covers the top of all tower sections when the tower is in the retracted position keeping dirt and moisture out of the tower when stowed.
16.02	1	Gast 3/4-hp compressor with connected remote mount 10-gallon air tank.
16.03	1	Custom fabricated 0.125" aluminum Nycoil cylinder painted to match body color.
16.04	1	Custom fabricated 0.125" aluminum mast cover painted to match body color.
16.05	1	Custom fabricated bracket on mast to mount two individual camera systems. **NOTE:** Mount to accommodate space for two (2) LMR240 cabling with NMO bases
16.06	1	Mast lookup light mounted on mast.
16.07	1	Weatherproof mast up/down control switch on exterior of vehicle.
16.08	2	AXIS Q6318-LE PTZ Dome Network Camera • 4K UHD and 31x optical zoom • Axis Sharpdome technology with Speed Dry • Optimized IR with power-efficient, long-life 850 nm IR LEDs, range of reach 300 m (984 ft) or more depending on the scene • Built-in laser that provides laser focus for precise focus and quick-zoom functionality, it allows you to easily follow fast-moving objects
16.09	2	Axis T8705 Video Decoder • Enables digital monitors to connect to and display live video from Axis network cameras • HDTV 1080p HDMI video decoder • Sequence and Multiview (up to 16 cameras)
16.10	2	SD Memory Card for IP camera. The SD card shall record mast camera allowing it to be downloaded and viewable via an IP address. **NOTE:** 64GB. Each mast camera will include SD card for recording.
16.11	1	Prewire and make installation provisions for customer installed mast on rear of vehicle. Includes: • Internal support structure for future mast install on rear of truck • Carlon Carflex ENT conduit routed from mast location to equipment rack cabinet for camera wiring (camera not included). • Receptacle for mast compressor on dedicated circuit (compressor not included). **NOTE:** Future 2nd mast
17.00		**RADIOS:**
17.01		Primary 12Vdc power leads for communications radios shall be minimum 2-gauge copper stranded wire with soldered crimp-on end connectors (gauge based on radio requirements). Cables shall be enclosed in convoluted tubing and function identified with colored shrink-wrap. Power to radios shall be controlled by a continuous-duty switch actuated by the auxiliary battery disconnect switch.

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Item	Qty	
17.02	13	Prewire and make installation provisions for communications radio. Installation includes: • NMO-style base on the roof or antenna raceway, as applicable. • LMR195 antenna cable routed to radio transceiver location in Carlon Carflex ENT conduit. • 12Vdc power routed to radio transceiver location. **NOTE:** Motorola APX8500 Trunk Mount transceiver Customer supplied radios and locations: TBD
17.03	1	Prewire and make installation provisions for dual head communications radio. Installation includes: • NMO-style base on the roof or antenna raceway, as applicable. • LMR195 antenna cable routed to radio transceiver location in Carlon Carflex ENT conduit. • 12Vdc power routed to radio transceiver location. **NOTE:** Motorola APX8500 Trunk Mount transceiver. Location: one (1) head in each exterior workstation.
17.04	1	Fabricate and install 3" x 3" square aluminum tubing antenna raceway on the roof of the body and will penetrate the roof on each side of the truck at radio box locations. Includes: • 3" high x 3" long aluminum access cover at each antenna base location on the side of the tubing for access to antenna base and coax cable. • Access covers with watertight gasket and attached with four (4) stainless steel machine screws. Raceway tube to have nut-serts installed for access cover attachment. • Carlon Carflex ENT conduit routed from antenna raceway penetration location to radio transceiver locations.
17.05	1	Radio antenna termination panel for up to twenty (20) radios. Includes: • TNC bulkhead jack in panel for each radio antenna on the raceway • Antenna leads from radio locations to panel routed through Carlon Carflex ENT conduit with 18" of extra cable at panel to allow customer to reconfigure panel as required
17.06	2	LMR240 cable runs from electronics rack to mast topper. Includes NMO base termination on mast topper and extra slack at electronics rack.
17.07	16	Magnetic microphone holder. Magnetic Mic MMSU-1.
17.08	7	Plantronics Headset, Jack box and Footswitch. Includes: • One (1) Mobile Conductor Box w/ Footswitch PTT enabling mobile radio operator headset capability. • One (1) Primary voltage fluctuation protection electronics (dirty power emitted by vehicles). • 6 ft Radio Interface Cable From Mobile Conductor Box to Motorola APX8500 Mobile radio with DB26 connector. Part # 20-11135-06.. • SHS1890 PTT with carbon type microphone amplifier, PJ-7 connector, and selectable switch operation (momentary or locking modes). 10ft cable. **NOTE:** Locations: Workstations, cab, etc. (TBD)

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Item	Qty	
18.00		**COMPUTER NETWORK AND EQUIPMENT:**
18.01	38	RJ-45 Cat6 computer network jack with Cat6 cable routed through Carlon Flex-Plus ENT conduit or raceway (as applicable). **NOTE:** • Two (2) at each Workstation 1-6 above the countertop in the Raceway • Two (2) at each Workstation 1-6 below the countertop for the Computers • Two (2) streetside rear slide out above the countertop in the Raceway • Two (2) in the Conference Table Base • Two (2) in the Ceiling (one front room and one rear room for access points) • One (1) in Upper Comms Closet • One (1) for the Printer • Three (3) phone locations TBD • One (1) in Exterior Workstation for mounted phone • One (1) in the Exterior Workstation for walk up connection • One (1) in the Input Box - connected to router for storage connection
18.02	2	Leviton 69270-U24 24-port Cat6 rack mount patch panel.
18.03		Certified 18" Cat6 patch cord. As Required.
18.04		Certified 36" Cat6 patch cord. As Required.
18.05	1	Cable Certification Report confirming that network wiring complies with Cat6 specifications.
18.06	1	CISCO Business 24 Port PoE Smart Switch CBS220-24P-4G-NA • Switch ports: 24-port 10/100/1000 + 4 x 1G SFP • Power-over-ethernet: 24 PoE ports with 195W PoE Budget
18.07	1	48-port 10/100/1000 Switch with Fiber connections, $4000 allowance. Model TBD.
18.08	1	HP Color LaserJet Pro Multi-Function Printer (MFP) M479FDN Product features: • Black/white or color print, copy, and scan • Dimensions (W X D X H) 16.8 x 25.7 x 16.3 in; 51.6 Lbs.
18.09	7	Computer allowance, $1,500.00 per unit. Note: Any unused money to be returned to customer. **NOTE:** Customer to provide make/model and particulars for LDV to purchase
18.10	1	Cradlepoint E3000 cellular router with WiFi (5G Modem) and 1-year NetCloud Enterprise Branch Essentials Plus Advanced Plan.
18.11	1	Cradlepoint LTE Advanced Pro 1200M-B MC400 Modem For E300/E3000 Enterprise Branch Routers.
18.12	1	Cellular modem antenna with GNSS. Airgain CENTURION Next 9 IN 1 High Performance External IP67 Antenna for LTE and 5G. 4x Cellular (600 MHz-6 GHz), 4x WIFI and GNSS, Threaded-Bolt Mount, 15 FT Cabling With SMA Connectors for Cell/GNSS, and RP-SMA for WIFI, Black.
18.13	1	Cellular modem antenna with GNSS. Airgain CENTURION Next High Performance External IP67 Antenna for LTE and 5G. 4x Cellular (600 MHz-6 GHz), Threaded-Bolt Mount, 15 FT Cabling With SMA Connectors for Cell, Black.

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Item	Qty	
19.00		**MISCELLANEOUS ELECTRONICS:**
19.01	2	Masterclock NTDS26 (or current model) networked synchronized clocks. Product features: • Uses external (or your own internal) NTP source for accurate traceable time. • Display time in 12 or 24 hr format. • Display date in mm:dd:yy or dd:mm:yy. • All international time zones. • All automatic daylight saving time. **NOTE:** RED color led
19.02	1	Middle Atlantic Products, Inc. MRK-4026 forty-space 19" wide x 26.5” depth (24” useable depth) open framed electronics equipment rack with caster base. Rack can easily slide out from its fixed position to allow side access to rack equipment.
19.03	1	Middle Atlantic VFD-40 vented front door. **NOTE:** Door is secured closed with a key lock.
19.04	1	Middle Atlantic MW-4QFT-FC top fan panel, with four (4) 50 cfm ventilation fans, QFAN.
19.05	2	Tripp Lite PDU Rack mount Power Distribution Unit 19" 1U L6-30P 208/240V 18-outlet power strip with 2 front-panel C19 outlets and 12 rear-panel C13 outlets, 15ft Cord.
19.06	3	Cast Products EB00013-1 cast aluminum weatherproof box with key lock. **NOTE:** • One will be located on the Streetside and used as the Input Box/Pass Thru into the Electronics Rack • One will be located on the curbside and used as a Pass Thru Box • One will be located on the Rear Wall and used as a Pass Thru Box. • Include a cover for where the PVC tubes come through the wall and into the interior.
19.07	3	Shroud with weatherproof pass-through hatch installed in the door of the input box.
19.08	3	Exterior input box door painted to match body.
20.00		**EXTERIOR STORAGE COMPARTMENTS:**
20.01	1	Single – fold down door - underbody compartment with approximate interior dimensions up to 21" high x up to 27" wide x 25" deep constructed from 0.125" aluminum with all welded seams. **NOTE:** This compartment is located under the streetside forward slide out and will be used for the slide out pumps/valves.
20.02	1	Single door underbody storage compartment with approximate interior dimensions 21" high x up to 30" wide x 25" deep constructed from 0.125" aluminum with all welded seams. **NOTE:** This compartment is located under the curbside forward slide out and will be used for power converters.
20.03	1	Single – fold down door - underbody compartment with approximate interior dimensions up to 21" high x up to 48" wide x 25" deep constructed from 0.125" aluminum with all welded seams. **NOTE:** The one under the rear slide out will house the mast compressor/valves and have a divider to separate that from the remaining storage area.

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Item	Qty	
20.04	2	Single – fold down door - underbody compartment with approximate interior dimensions of up to 21" high x up to 60" wide x 25" deep constructed from 0.125" aluminum with all welded seams. **NOTE:** One (1) compartment is located under the curbside rear slide out and will have a slide out tray. One (1) compartment is located under the curbside forward slide out and will be for storage
20.05		Compartments listed above will be constructed to the following specifications: • Sweep out type bottoms with 1/2” drain holes. • 2" box pan doors and door frames fabricated from 0.125" aluminum. • Door frames shall be riveted to the body and welded to the compartments. • Compartments shall have an LED light that illuminates when the door is opened. Compartment doors will be constructed to the following specifications: • Stainless steel hinges attached with stainless machine screws. • Slam latches and flush mounted handles. • 0.100" bright polished aluminum diamond plate on interior surfaces fastened with stainless hardware. • All doors shall be sealed with industrial grade neoprene gasket.
20.06	1	Aluminum box pan shelf with heavy duty full extension slides, mounted in exterior compartment. Slide features: • Industrial grade ball bearing slide • 400 lb. weight capacity • Safety latch holds shelf secure during travel and when fully extended **NOTE:** Tray for Dometic cooler
20.07	1	Dometic CFX3100 Electric Powered Cooler installed in underbody compartment. Includes: • AC or DC (same connection on cooler) • Dimensions: 20.87"D x 18.58"H x 37.87"W **NOTE:** 12V powered
21.00		**MISCELLANEOUS OTHER:**
21.01	2	Girard Nova motorized retractable lateral arm awning. Features: • Dual-pitch awning with up to three lateral arms for superior strength, • AC electric powered motor with crank handle/manual override • Sensor that will retract the awning to prevent damage from the wind **NOTE:** Customer request of awning to cover the majority of the curb side layout. Factory color White included and any other color is additional charge. Location: Centered curbside
21.02	2	Girard awning LED light kit. G-Lite Awning Lighting system is an LED light strip in the outer rail to illuminate area under awning. **NOTE:** Controlled by a button on the Multiplex system.

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Item	Qty	
21.03	1	15" wide roof access ladder mounted on rear. Ladder features: • All welded construction for maximum strength • 1" diameter X 0.083" brush finished tubular aluminum rails • Aluminum grip-strut rungs
21.04	1	Heavy-duty Quadra Mfg. Bigfoot© four point fully automatic one-touch leveling system. Includes: • Four (4) QEII-26 jacks with 17,000-lb. capacity each, 26" long with 20" stroke • Air ride dump valve • Fully automatic control panel with manual feature • Safety interlock when jacks are deployed
21.05	1	Set of four (4) Super Dolly Pads high density polypropylene, injection molded yellow colored for use with leveling system jacks. Pads measure 15” x 17” x 1” thick with a grab strap on one side.
21.06	2	5 pound dry chemical fire extinguisher.
21.07	3	Battery powered combination Carbon Monoxide and Smoke alarm.
21.08	1	Complete manual set, including the following (as applicable): • As-built specifications with interior and exterior drawings as used for production of the vehicle. • Chassis and body owner's manuals. • 12Vdc and 120Vac legends showing wire gauge, color, number and function. • 12Vdc high current wiring diagram illustrating the battery system, isolators, power converters, alternator, disconnect switches and control panels. • Roof top antenna placement drawing and legend identifying antenna placements and termination points. • Audio/Video cabling diagram. • Chassis and generator maintenance and service logs. • Battery maintenance information. • All individual component manuals and warranty registration cards as provided by component manufacturers. Customer is responsible for completing warranty cards and mailing them to manufacturers.
21.09	1	TRAINING. An LDV representative will provide up to eight (8) hours of orientation on LDV provided systems, as applicable: • Generator start up and shut down procedure • Leveling system operation • AC and DC electrical systems operation • HVAC systems operation • Mast operation • Audio/Video system operation, does not include programming DVR's, TV's, etc. • Alarm operation • Awning operation
21.10		LDV warranty of one (1) year/12,000 miles, whichever comes first, for manufacturer’s defects in materials and workmanship. Refer to LDV warranty statement for details of warranty coverage.

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Item	Qty	
21.11		Note: Project scope does not include certain tasks or costs that are the responsibility of the customer unless clearly specified as LDV supplied. These items include, but are not limited to: • Radio and telephone system programming. • Activation and service fees for cellular telephones, satellite telephones, satellite TV, satellite internet access. • Loading and configuring computer software. In the event of a discrepancy between the drawing and specification, the specification will supersede. LDV reserves the right to make substitutions of equal quality and specifications of those listed in this document. Some component models change frequently. In the event that a specified component model becomes unavailable at the time LDV attempts to source it, LDV will provide a replacement model with equivalent or better features, as agreed upon with the customer.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1319

AUTHORIZING THE USE OF STATE AND LOCAL FISCAL RECOVERY FUNDS TO FUND COUNSELING NEEDS AND MEETING INCREASED DEMAND FOR THE KANE COUNTY CHILD ADVOCACY CENTER

WHEREAS, the Congress of the United States has enacted the American Rescue Plan Act of 2021 ("ARPA") to provide economic relief to State, Local, and Tribal governments responding to economic and public health impacts of the COVID-19 pandemic; and

WHEREAS, the County of Kane has received a total of $103,413,041 (One Hundred Three Million, Four Hundred Thirteen Thousand, Forty-One Dollars) from the United States Department of the Treasury, in State and Local Fiscal Recovery Funds ("SLFRF") pursuant to ARPA, and

WHEREAS, pursuant to ARPA and the administrative regulations adopted by the United States Department of the Treasury ("Final Rule"), the County of Kane shall use SLFRF to defray costs associated with its response to the COVID-19 pandemic within the County, to address the economic fallout from the pandemic, and lay the foundation for a strong and equitable recovery; and

WHEREAS, by Resolution 21-313, the Kane County Board has established the American Rescue Plan Committee ("ARPC") as a resource for research, education, planning, and recommendations for the best allocation and uses of the County's SLFRF; and

WHEREAS, by Resolution 21-156, the Kane County Board approved the recommended Spending Plan as proposed by the ARPC, which designates $42,000,000 (Forty-Two Million Dollars) to be used for Kane County Department and Elected Office project requests; and

WHEREAS, the Kane County Child Advocacy Center ("CAC") has made a request in the amount of $789,000 of SLFRF to fund counseling needs and meeting increase demand for the purpose of providing counseling and mental health services to children and their families who have been victims of crimes against children; and

WHEREAS, according to the National Institute of Health, tele-mental health care will remain an integral part of health care services. CAC staff have observed that approximately 1/3 of families served either do not have access to home internet services or a private, uninterrupted space for victims and their non-offending family members to complete therapy in their homes. This creates a need to provide a safe space for families to receive mental health care in our center with tele-mental health equipment for use. This increases access to all clients by offering those who cannot receive in-person counseling due to COVID- related vulnerabilities the opportunity to receive the same care that all clients deserve; and

WHEREAS, to assist the County in determining whether the project is an eligible use of SLFRF under ARPA, the Final Rule, and the related guidance issued by the United States Department of the Treasury, the ARPC consultant, Ernst and Young, has reviewed the Kane County Child Advocacy Center's request for SLFRF for counseling needs and meeting increase demand for the purpose of providing counseling and mental health services to children and their families who have been victims of crimes against children and completed an assessment regarding the project's eligibility under the U.S. Department of Treasury's Rules and Regulations Section, EC-3: Public Health-Negative Economic Impact: Public Sector, EC Subcategory 3.4 (see Exhibit A); and

WHEREAS, the ARPC recommends that the Kane County Board authorizes the use SLFRF in the amount of $789,000 to fund the counseling needs and meeting increase demand for the Kane County Child Advocacy Center, to be spent during the ARPA period of performance and in accordance with the ARPA, the Final Rule and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board hereby authorizes the Kane County Child Advocacy Center use of State and Local Fiscal Recovery Funds in the amount of $789,000 to be used for counseling need and meeting increase demand, in accordance with the American Rescue Plan Act of 2021, the Final Rule, and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Kane County Board that the following adjustment be made to the Fiscal Year 2023 budget:

$49,000	Counseling Services	355.800.668111.50620
$10,000	Transportation	355.800.668111.56030
$40,000	Building Improvements	355.800.668111.72012
($99,000)	Allowance for Budget Expense	355.800.668.85000

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Kane County Board that the remaining grant funding will be budgeted in FY24 ($230,000), FY25 ($230,000) and FY26 ($230,000).

Line Item: See Above
Line Item Description: See Above
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? No
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available?
See Above

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing the Use of State and Local Fiscal Recovery Funds to Fund Counseling Needs and Meeting Increased Demand for the Kane County Child Advocacy Center

Committee Flow:
American Rescue Plan Committee, Executive Committee, County Board

Contact:
Jarett Sanchez, 630.444.1224

Budget Information:

Was this item budgeted? No	Appropriation Amount: $789,000
If not budgeted, explain funding source: Various Sources	

Summary:

This resolution authorizes the Kane County Child Advocacy Center use of State and Local Fiscal Recovery Funds in the amount of $789,000 to be used for counseling need and meeting increase demand, in accordance with the American Rescue Plan Act of 2021, the Final Rule, and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

A **Proposed Program Name**

CAC Funding

B **Proposed Program Summary**

Right now, the CAC funds their counselors through a VOCA (Victims of Crime Act) grant fund, with the purpose of supporting victims of crimes through state services. One of the effects of the pandemic is the impact it had on mental health services. The pandemic effectively resulted in a national shortage of available counselors, especially Spanish-speaking providers. While the pandemic itself has caused people mental stress, it has also made more people receptive to receiving help. The addition of the global pandemic on top of people's already existing trauma histories and/or everyday stressors has been shown to have escalated mental health problems but also awareness and acceptance of the need to seek treatment. The draw on resources for free services run by local crisis centers as well as private practices created waitlists that we've seen be a long as one year to begin services. There is a huge gap in equity with currently no Spanish speaking counselors being contracted by the CAC, which means that about 35% of CAC families are unable to get counseling through our program unless referred to outside partner agencies such as Mutual Ground or Community Crisis Center. However, one positive outcome of the pandemic is some counselors made the jump into opening their own practices. Therefore, we've seen several new counseling practices open locally. Due to the increased demand that we are seeing, partnering with multiple local counseling practices spread out around the county would allow more people of all incomes, with or without insurance, and also those with time constraints or difficulty getting to and from counseling access to services that are tailored to their needs. We would seek to contract additional counselors for a period of up to three years, to meet this heightened need, followed by a re-evaluation period.

Additionally, around 35-40% of individuals and families that receive counseling services from the CAC request additional sessions after the initial allowance of 15 sessions. The CAC's counseling program, due to grant budgets, is built to be a short-term trauma-focused program. There are often not an adequate number of sessions allowed to fully address someone's trauma as well as handle the challenges of the criminal justice system, such as cross-examination and changing court dates. These additional sessions would only be guaranteed for those who need and request the services. Currently, CAC begins with 15 (max. 20) sessions. However, many people need longer-term care, and it is hard to refer out to another counselor to continue their care due to the strain on available counselors as well as the emotional strain that causes children and families to have to be introduced to a new counselor and start from scratch in the rapport building process with that person. With families dealing with layers of complex trauma, such as multigenerational trauma and non-offending parents who were abused as children, VOCA contracted CAC counselor Julie Turner recommends an optional 30-40 sessions, which can last for up to a year. The County would cover the full cost of the sessions, which is expected to be $125 per session. The program only relates to counseling services. The counseling is for the child victims of sexual and physical abuse and the victim's non-offending immediate family members (siblings and parents). We approximate the cost of counseling to be between $112,500- $200,000 per year.

Since transportation to and from counseling is a barrier to treatment that many families face, we also propose that ARPA funds would be used for that purpose. Either by way of having gas cards available for those with a vehicle, or providing Uber rides to and from counseling for those without a vehicle, many families tell us that they cannot seek counseling because of the financial cost of transportation. This has been seen during the pandemic and beyond. During and since the pandemic many families' finances were strained due to lack of income, the inability to work jobs in companies that shut down, and also due to having no childcare for their kids or being at home with their children due to school not being in person. This has had a lasting effect on many families. Many companies did not bounce back as the world began to reopen, and the financial hardship caused by the pandemic has been difficult for many, and impossible for some. This burden should not translate over to the child. This barrier to receiving the mental health treatment that every crime victim deserves should not exist only because their parent cannot afford the cost of providing transportation to counseling. Transportation via Uber may cost up to $100 roundtrip, so for 15-40 sessions for approximately 20 families per year we estimate using anywhere from $30,000 to $60,000. Should gas cards be utilized in $20 increments the cost is expected to be between $6,000 to $16,000. In order to regulate and track the usage of gas cards, after transportation assistance is requested by the family, we will distribute gas cards to the counselors to hand out after each session to ensure that the family returns for their next session, rather than give them a lump sum of gas cards. The counselor will be expected to include distribution amounts on their monthly billing statements and CAC staff will include this in our current counseling tracking system contained in the CAC database, which allows us to be able to export reports for grant and auditing purposes. The same tracking can be utilized for any Uber expenditures as well.

Tele-mental health, or that is counseling that takes place remotely, became a way that people could continue to get counseling while the pandemic meant that they could not be present for sessions in person. While this solution worked wonderfully for many people, it was not ideal for others. Some families that the CAC serves have multiple children in shared bedrooms, or share a home with multiple families, making it difficult to find the quiet space needed to have one-on-one tele-mental health with a counselor where their privacy was guaranteed. Other families could not afford internet services and therefore this option was not possible for them. We currently work with several counselors who continue to only do remote counseling due to continuing health concerns about the Covid-19 virus. The American Telemedicine Association, American Psychiatric Association, American Psychological Association and American Academy of Child & Adolescent Psychiatry have agreed that tele-mental health can still conform with best practice guidelines to be utilized as a delivery method of counseling services. A telehealth pilot study conducted in late 2020 showed very high satisfaction with the tele-mental health delivery format and that it increased access to trauma-focused treatment to underserved communities. Our proposal includes using space in the CAC Annex for tele-mental health services. We are asking to outfit two rooms in the Annex so that families have the safe space to receive counseling if their home is not conducive and in-person counseling is not either recommended or possible due to medical risk of Covid-19. Aesthetic improvements to paint and carpeting as well as furniture and computer equipment to be used in the Annex will cost an approximate $40,000, but be a one-time cost. The breakdown of that would be approx. $6,000 for painting two rooms, $20,000 for carpeting, $6,000 for furniture, and $8,000 for tele-mental health computer equipment.

C **Proposed Program Risk Considerations and Requirements Summary**

Treasury identified combatting domestic violence and abuse as a need arising from the pandemic. The work of the CAC center would likely fall under the use category of assistance with "other needs" for survivors of domestic violence, sexual assault or human trafficking.

The County could argue that counseling services for survivors of abuse are reasonable "other needs" for survivors. The County could also argue that providing transportation support to the counseling sessions is analagous to providing childcare services because it is an additional service that enables the abuse victim to utilize the support services by removing structural impediments to access.

The County could argue that the capital expenditure to renovate a portion of the CAC facility to provide conference rooms for telehealth is also a reasonable measure to remove structural impediments to accessing counseling care. The County would need to be able to show that this is a reasonable expenditure through information on if there is a need for facilities outside of the home to access telehealth due to the availability of telehealth appointments over in person appointments and that some patients are unable to access telehealth from their own homes.

D	Program Assessment Details	
Complete the below Program Assessment Checklist. For instructions/guidance on using the below checklist please see the User Guide		
D.1	Select the appropriate broad SLFRF category applicable to this project	Responding to the public health and negative economic impacts of the pandemic
D.2	Select SLFRF Expenditure Category	EC1
D.3	SLFRF Expenditure Category Description	1: Public Health
D.4	Select SLFRF Expenditure Subcategory	1.11 Community Violence Interventions*^
D.5	Additional SLFRF Expenditure Categories for consideration	2.34 Aid to Impacted Nonprofit organizations
D.6	Comments regarding additional SLFRF Expenditure Categories	The rate of domestic abuse increased during the pandemic.
D.7	Are the beneficiaries Populations Presumed Eligible?	Not Applicable
D.8	Which Populations Presumed Eligible does the proposed program intend to serve?	Not Applicable
D.9	Is the Populations Presumed Eligible analysis conducted on each applicant or based on geographic area(s)?	Not Applicable
D.10	Is the proposed project related to an industry other than Tourism, Travel, or Hospitality?	Not Applicable
D.11	Is the proposed project an enumerated use?	No
D.12	Does the proposed project include subrecipients/beneficiaries?	No
D.13	What is the estimated number of subrecipients/beneficiaries?	0
D.14	Will the County be using a partner/subrecipient to administer the program?	No
D.15	Will the proposed program require funding beyond the eligible period of ARPA SLFRF funds?	No
D.16	Estimated ongoing costs beyond ARPA SLFRF eligibility period	0
D.17	Is the proposed project/expenditure solely related to ARPA SLFRF eligible uses?	Yes
D.18	Percentage of project estimated to be ARPA SLFRF eligible	100%
D.19	Does the proposed project include capital expenditures	Yes
D.20	Is the capital expenditure an enumerated use (Select One)	No - the proposed capital expenditure is not an enumerated use
D.21	Select the appropriate range of expected capital expenditures	Less than $1 million
D.22	Is a Written Justification Required	No
D.23	Does the project include required programmatic data	Yes
D.24	Does the application indicate the program is designed to address equitable outcomes?	Yes

E ARPA SLFRF Eligible Cost Category Designation - Items D.1 through D.6

Treasury identified combatting domestic violence and abuse as a need arising from the pandemic. The work of the CAC center would likely fall under the use category of assistance with "other needs" for survivors of domestic violence, sexual assault or human trafficking.
The County could argue that counseling services for survivors of abuse are reasonable "other needs" for survivors. The County could also argue that providing transportation support to the counseling sessions is analagous to providing childcare services because it is an additional service that enables the abuse victim to utilize the support services by removing structural impediments to access.
The County could argue that the capital expenditure to renovate a portion of the CAC facility to provide conference rooms for telehealth is also a reasonable measure to remove structural impediments to accessing counseling care. The County would need to be able to show that there is a need for facilities outside of the home to access telehealth due to the availability of telehealth appointments over in person appointments and that some patients are unable to access telehealth from their own homes.

Payment for Counseling Services and Transportation to Counseling
•" The interim final rule highlighted that some types of violence had increased during the pandemic and that the ability of victims to access services had decreased, noting as an example the challenges that individuals affected by domestic violence face in accessing services. Accordingly, the interim final rule enumerated as an eligible use, in disproportionately impacted communities, evidence-based community violence intervention programs." (pg. 4356)
•"Treasury released further guidance identifying how enumerated eligible uses and eligible use categories under the interim final rule could support violence reduction efforts, including rehiring public sector staff, behavioral health services, and services to address negative economic impacts of the pandemic that may aid victims of crime." (pg. 4356)
•"enumerated eligible uses like emergency housing assistance, cash assistance, or assistance with food, childcare, and other needs could be used to support survivors of domestic violence, sexual assault, or human trafficking who experienced public health or economic impacts due to the pandemic." (pg. 4356)

•"The COVID–19 pandemic placed meaningful strain on the child welfare and foster care system. Court hearings were delayed, essential mental health care was shifted to a virtual environment, and attendance and performance in school among foster children dropped sharply." (pg. 4364)

Renovation of Place to Provide Counseling Services

•"Capital expenditures, in certain cases, can be appropriate responses to the public health and economic impacts of the pandemic, in addition to programs and services. Like other eligible uses of SLFRF funds in this category, capital expenditures should be a related and reasonably proportional response to a public health or negative economic impact of the pandemic. The final rule clarifies and expands how SLFRF funds may be used for certain capital expenditures, including criteria and documentation requirements specified in this section, as applicable." (pg. 4389)

•"Responses must be reasonably designed to benefit the individual or class that experienced the impact or harm and must be related and reasonably proportional to the extent and type of impact or harm." (pg. 4390)

Aid to Impacted Nonprofits

•"The interim final rule provided for, and the final rule maintains, the ability for recipients to provide direct assistance to nonprofits that experienced public health or negative economic impacts of the pandemic. Specifically, recipients may provide direct assistance to nonprofits if the nonprofit has experienced a public
health or negative economic impact as a result of the pandemic. For example, if a nonprofit organization experienced impacts like decreased revenues or increased costs (e.g., through reduced contributions or uncompensated increases in service need)" (pg. 4380)

F **ARPA SLFRF Eligibility Justification Requirements - Necessary with Item D.11 is marked "No"**

F.1 **Designating a Public Health Impact**

The CAC is charged with the duty of investigating and prosecuting sex crimes against children and major physical child abuse cases. Without being able to pay the right amount of personnel, we will see a lag in investigations and prosecution. This would directly put children in continued danger while being around the abuser.

F.1a Guidance: **See Final Rule, 87 Fed Reg 4343.** There must be a negative public health impact or harm experienced by an individual or a class. For ease of administration, the interim final rule allowed, and the final rule maintains the ability for, recipients to identify a public health impact on a population or group of individuals, referred to as a ''class,'' and to provide assistance to that class.

F.2 **Designating a Negative Economic Impact**

n/a

F.2a Guidance: **See Final Rule, 87 Fed Reg 4343.** First, there must be a negative economic impact, or an economic harm, experienced by an individual or a class. The recipient should assess whether, and the extent to which, there has been an economic harm, such as loss of earnings or revenue, that resulted from the COVID–19 public health emergency. A recipient should first consider whether an economic harm exists and then whether this harm was caused or made worse by the COVID–19 public health emergency. Second, the response must be designed to address the identified economic harm or impact resulting from or exacerbated by the public health emergency. In selecting responses, the recipient must assess whether, and the extent to which, the use would respond to or address this harm or impact.

F.3 **Description of how proposed program addresses/responds to harm and is reasonable**

It is well established that the CAC, with their responder model that houses the investigation, advocacy, and prosecution under the same roof, has increased the ability to investigate and prosecute these matters. The Kane County CAC was just re-certified to continue its mission. When a child reports the allegation, it is imperative that the child have a victim sensitive interview as soon as possible and prior to any other family influence to maintain the integrity of the investigation. Any delay in setting this would make prosecution more difficult.

F.3a Guidance: **See Final Rule, 87 Fed Reg 4343.** The program, service, or other intervention must address or respond to the identified impact or harm. The final rule maintains the interim final rule requirement that eligible uses under this category must be in response to the disease itself or other public health harms that it caused Responses must be reasonably designed to benefit the individual or class that experienced the public health impact or harm. Uses of funds should be assessed based on their responsiveness to their intended beneficiaries and the ability of the response to address the impact or harm experienced by those beneficiaries Responses must also be related and reasonably proportional to the extent and type of public health impact or harm experienced. Uses that bear no relation or are grossly disproportionate to the type or extent of harm experienced would not be eligible uses.

F.4 **Assessment of whether identified industry is eligible**

n/a

F.4a **Guidance: See Final Rule, 87 Fed Reg 4382.** Simplified test. An industry is presumed to be impacted if the industry experienced employment loss of at least 8 percent. Specifically, a recipient should compare the percent change in the number of employees of the recipient's identified industry and the national Leisure & Hospitality sector in the three months before the pandemic's most severe impacts began (a straight three-month average of seasonally-adjusted employment data from December 2019, January 2020, and February 2020) with the latest data as of the final rule release (a straight three-month average of seasonally-adjusted employment data from September 2021, October 2021, and November 2021).

If an industry does not satisfy the test above or data are unavailable, the recipient may still designate the industry as impacted by demonstrating the following: the recipient can show that the totality of relevant major economic indicators demonstrate that the industry is experiencing comparable or worse economic impacts as the national tourism, travel, and hospitality industries at the time of the publication of the final rule, and that the impacts were generally due to the COVID–19 public health emergency. Recipients may rely on available economic data, government research publications, research from academic sources, and other quantitative sources for this determination. If quantitative data is unavailable, the recipient can rely on qualitative data to show that the industry is experiencing comparable or worse economic impacts as the national tourism, travel, and hospitality industries, and the impacts were generally due to the COVID–19 public health emergency. Recipients may rely on sources like community interviews, surveys, and research from relevant state and local government agencies

G **Capital Expenditure Evaluations - Complete if Item D.17 is marked as "Between $1 m and $10 m" or "Over 10 m"**

G.1 ***1. Description of harm or need to be addressed***

n/a

G.1a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should provide a description of the specific harm or need to be addressed, and why the harm was exacerbated or caused by the public health emergency. When appropriate, recipients may provide quantitative information on the extent and type of the harm, such as the number of individuals or entities affected.

G.2 ***2. Explanation of why a capital expenditure is appropriate***

n/a

G.2a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should provide an independent assessment demonstrating why a capital expenditure is appropriate to address the specified harm or need. This should include an explanation of why existing capital equipment, property, or facilities would be inadequate to addressing the harm or need and why policy changes or additional funding to pertinent programs or services would be insufficient without the corresponding capital expenditures. Recipients are not required to demonstrate that the harm or need would be irremediable but for the additional capital expenditure; rather, they may show that other interventions would be inefficient, costly, or otherwise not reasonably designed to remedy the harm without additional capital expenditure.

3. Comparison of the proposed capital expenditure against alternative capital expenditures

G.3 a. A comparison of the effectiveness of the capital expenditures in addressing the harm identified

n/a

G.3a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should generally consider the effectiveness of the capital expenditures in addressing the harm over the useful life of the capital asset and may consider metrics such as the number of impacted or disproportionately impacted individuals or entities served, when such individuals or entities are estimated to be served, the relative time horizons of the project, and consideration of any uncertainties or risks involved with the capital expenditure.

G.4 b. A comparison of the expected total cost of the capital expenditures

n/a

G.4a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should consider the expected total cost of the capital expenditure required to construct, purchase, install, or improve the capital assets intended to address the public health or negative economic impact of the public health emergency. Recipients should include pre-development costs in their calculation and may choose to include information on ongoing operational costs, although this information is not required.

H **Equitable Outcomes - Complete it item D.24 is populated with "Yes".**

H.1 **Description of equitable outcome goal and how the proposed program expects to achieve this goal**

This will assist in providing counseling services to those affected by CAC cases. During our last fiscal cycle, CAC ran out of counseling funds with three months remaining and had to limit the number of sessions to existing clients/victims and their families, and we could not offer our VOCA-funded counseling to anyone new.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1327

AUTHORIZING THE USE OF STATE AND LOCAL FISCAL RECOVERY FUNDS TO FUND KANE COUNTY TOURISM RECOVERY AND PROMOTION FOR A SUSTAINABLE FUTURE FUND FOR THE KANE COUNTY DEVELOPMENT AND COMMUNITY SERVICES DEPARTMENT

WHEREAS, the Congress of the United States has enacted the American Rescue Plan Act of 2021 ("ARPA") to provide economic relief to State, Local, and Tribal governments responding to economic and public health impacts of the COVID-19 pandemic; and

WHEREAS, the County of Kane has received a total of $103,413,041 (One Hundred Three Million, Four Hundred Thirteen Thousand, Forty-One Dollars) from the United States Department of the Treasury, in State and Local Fiscal Recovery Funds ("SLFRF") pursuant to ARPA, and

WHEREAS, pursuant to ARPA and the administrative regulations adopted by the United States Department of the Treasury ("Final Rule"), the County of Kane shall use SLFRF to defray costs associated with its response to the COVID-19 pandemic within the County, to address the economic fallout from the pandemic, and lay the foundation for a strong and equitable recovery; and

WHEREAS, by Resolution 21-313, the Kane County Board has established the American Rescue Plan Committee ("ARPC") as a resource for research, education, planning, and recommendations for the best allocation and uses of the County's SLFRF; and

WHEREAS, by Resolution 21-156, the Kane County Board approved the recommended Spending Plan as proposed by the ARPC, which designates $42,000,000 (Forty-Two Million Dollars) to be used for Kane County Department and Elected Office project requests; and

WHEREAS, the Kane County Development and Community Services Department has made a request in the amount of $1,588,000 (One Million Five Hundred and Eighty-Eight Thousand Dollars) of SLFRF to fund Kane County Tourism Recovery and Promotion for a Sustainable Future Fund for the purpose of responding to the COVID-19 public emergency or its negative economic impacts; and

WHEREAS, Covid-19's impact on the hospitality and tourism industry has been devastating and unprecedented. The impact is estimated to be about nine times of that from 9/11. Many of our properties were unable to host group meetings, tournaments, and events. Restaurants were also affected by the closing of indoor dining, stay-at-home orders, and strict capacity limits. These mitigations forced the restaurant industry to pivot, when they could, to takeout and delivery. Though assisted with Federal Relief Programs to pay employees not

laid off and other rent and operational grants and loans, the future of the once robust hospitality industry that employed 1 in every 10 workers in Illinois is in peril. The hospitality industry took the brunt of the damage as a business sector and needs targeted long-term support to rebuild and regain its place as an economic powerhouse. For Kane County the average change was a decrease of 40% in hotel occupancy with a peak of 63.5% in the early months of COVID, as reported by Smith Travel Research. The Power of Travel is essential for economic recovery in Kane County. The hospitality and travel industry has been ravaged by the Covid-19 Pandemic. Prior to the pandemic year of 2020, visitor spending in Kane County topped $532.78 million in 2019. In 2020, visitor spending and tax revenues statewide were down 49%. Regaining our position in the highly competitive tourism market is paramount. The result will be a lower tax burden to Kane County residents; and

WHEREAS, the Development and Community Services Department seeks to partner with the Elgin Area Convention & Visitors Bureau and the Aurora Area Convention & Visitors Bureau to administer this project; and

WHEREAS, the Aurora Area Convention & Visitors Bureau (AACVB) is a private, nonprofit organization dedicated to marketing and promoting the region as a premier overnight destination. The goal of the AACVB is to enhance the economic and environmental well-being of its communities; and

WHEREAS, the Elgin Area Convention & Visitors Bureau's mission is to collaboratively advocate for the thoughtful development and promotion of the region to stimulate the economy through tourism and create a sense of place for residents; and

WHEREAS, to assist the County in determining whether the project is an eligible use of SLFRF under ARPA, the Final Rule, and the related guidance issued by the United States Department of the Treasury, the ARPC consultant, Ernst and Young, has reviewed the Kane County Development and Community Services Department's request for SLFRF for Kane County Tourism Recovery and Promotion for a Sustainable Future Fund for the purpose of responding to the COVID-19 public emergency or its negative economic impacts and completed an assessment regarding the project's eligibility under the U. S. Department of Treasury rules and regulations Section EC-2: Negative Economic Impacts, EC Subcategory 2.35 (see Exhibit A); and

WHEREAS, the ARPC recommends that the Kane County Board authorizes the use SLFRF in the amount of $1,588,000 (One Million Five Hundred and Eighty-Eight Thousand Dollars) to fund the Kane County Tourism Recovery and Promotion for a Sustainable Future Fund for the Kane County Development and Community Services Department, to be spent during the ARPA period of performance and in accordance with the ARPA, the Final Rule and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board that the Kane County Board hereby authorizes the Kane County Development and Community Services Department use of State and Local Fiscal Recovery Funds in the amount of $1,588,000 (One

Million Five Hundred and Eighty-Eight Thousand Dollars) to be used for Kane County Tourism Recovery and Promotion for a Sustainable Future Fund , in accordance with the American Rescue Plan Act of 2021, the Final Rule, and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Kane County Board that the Kane County Board Chairman is authorized to execute separate grant agreements with (1) Elgin Area Convention & Visitors Bureau in the amount of $794,000 (Seven Hundred and Ninety-Four Thousand Dollars) of SLFRF and (2) Aurora Area Convention & Visitors Bureau in the amount of $794,000 (Seven Hundred and Ninety-Four Thousand Dollars) of SLFRF, based on the proposals attached as Exhibit B, to be distributed in accordance with the terms established pursuant to the respective grant agreements attached as Exhibit C, with final form of each respective grant agreement subject to approval by the State's Attorney's Office. The general ledger account for the Fiscal Year 2024 budget will be 355.800.668.85000 Allowance for Budget Expense.

Elgin
Elgin Area Convention & Visitors Bureau
Total funds requested $794,000 to be distributed over a three year period as outlined below:

FY 2024 Total $264,666: Digital Ads $154,666; Print Ads $80,000; Datayfy $30,000
FY 2025 Total $264,667: Digital Ads $154,667; Print Ads $80,000; Datayfy $30,000
FY 2026 Total $264,667: Digital Ads $154,667; Print Ads $80,000; Datayfy $30,000

Aurora
Aurora Area Convention & Visitors Bureau
Total funds requested $794,000 to be distributed over a three-year period as outlined below:

FY 2024 Total $264,666: Digital Ads $162,933; Print Ads $85,000; Datafy $16,733
FY 2025 Total $264,667: Digital Ads $162,934; Print Ads $85,000; Datafy $16,733
FY 2026 Total $264,667: Digital Ads $162,934; Print Ads $85,000; Datafy $16,733

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing the Use of State and Local Fiscal Recovery Funds to Fund Kane County Tourism Recovery and Promotion for a Sustainable Future Fund for the Kane County Development and Community Services Department

Committee Flow:
American Rescue Plan Committee, Executive Committee, County Board

Contact:
Jarett Sanchez, 630.444.1224

Budget Information:

Was this item budgeted? No	Appropriation Amount: $1,588,000.00
If not budgeted, explain funding source: 355.800.668.85000	

Summary:

This resolution authorizes the Kane County Development and Community Services Department use of State and Local Fiscal Recovery Funds in the amount of $1,588,000 (One Million Five Hundred and Eighty-Eight Thousand Dollars) to be used for Kane County Tourism Recovery and Promotion for a Sustainable Future Fund , in accordance with the American Rescue Plan Act of 2021, the Final Rule, and related guidance issued by the United States Department of the Treasury, and any other Federal, State or local laws and regulations.

A	Proposed Program Name
Grants to CVBs	

B	Proposed Program Summary
The Development Department proposes providing grants to two Kane County Convention Visitor Bureaus located in Aurora and Elgin. The Aurora Area CVB requested $750,000 in funding to use for Tourism advertising in both print and digital mediums. The ads would target potential travelers in the midwest, and promote the attractions within the County. The Elgin Areas CVB requested $750,000 in funding to be spent on tourism advertising ($579,890), Datafy Software ($30,000), Travel Expenses ($8,360), Trade Show Registration ($26,750), and Sport Tournament Sponsorships ($45,000). The Datafy Software is to track the impact of advertising to make informed marketing decisions. The Travel expenses are to send Kane County representatives to the Trade Show where they will be marketing the County's Tourism.	

C	Proposed Program Risk Considerations and Requirements Summary
Marketing Support for Kane County's tourism industry is likley eligible under 2.35 Aid to Tourism Travel and Hospitality. In order for this project to be eligible the County would need to argue that marketing expenses directly adress the harm to tourism in Kane County during the Covid-19 pandemic. The investments in marketing would need to be designed to counter the dramitic reduction in Tourism within Kane County.	

D	Program Assessment Details	
Complete the below Program Assessment Checklist. For instructions/guidance on using the below checklist please see the User Guide		
D.1	Select the appropriate broad SLFRF category applicable to this project	Responding to the public health and negative economic impacts of the pandemic
D.2	Select SLFRF Expenditure Category	EC2
D.3	SLFRF Expenditure Category Description	2: Negative Economic Impacts
D.4	Select SLFRF Expenditure Subcategory	2.35 Aid to Tourism, Travel, or Hospitality^
D.5	Additional SLFRF Expenditure Categories for consideration	n/a
D.6	Comments regarding additional SLFRF Expenditure Categories	n/a
D.7	Are the beneficiaries Populations Presumed Eligible?	Not Applicable
D.8	Which Populations Presumed Eligible does the proposed program intend to serve?	Not Applicable
D.9	Is the Populations Presumed Eligible analysis conducted on each applicant or based on geographic area(s)?	Not Applicable
D.10	Is the proposed project related to an industry other than Tourism, Travel, or Hospitality?	No
D.11	Is the proposed project an enumerated use?	No
D.12	Does the proposed project include subrecipients/beneficiaries?	Yes
D.13	What is the estimated number of subrecipients/beneficiaries?	2
D.14	Will the County be using a partner/subrecipient to administer the program?	No
D.15	Will the proposed program require funding beyond the eligible period of ARPA SLFRF funds?	No
D.16	Estimated ongoing costs beyond ARPA SLFRF eligibility period	0
D.17	Is the proposed project/expenditure solely related to ARPA SLFRF eligible uses?	Yes
D.18	Percentage of project estimated to be ARPA SLFRF eligible	100%
D.19	Does the proposed project include capital expenditures	No
D.20	Is the capital expenditure an enumerated use (Select One)	Not Applicable
D.21	Select the appropriate range of expected capital expenditures	Not Applicable
D.22	Is a Written Justification Required	No
D.23	Does the project include required programmatic data	No
D.24	Does the application indicate the program is designed to address equitable outcomes?	Not Applicable

E	ARPA SLFRF Eligible Cost Category Designation - Items 1 through 6
	Marketing Support for Kane County's tourism industry is likley eligible under 2.35 Aid to Tourism Travel and Hospitality. In order for this project to be eligible the County would need to argue that marketing expenses directly adress the harm to tourism in Kane County during the Covid-19

pandemic. The investments in marketing would need to be designed to counter the dramitic reduction in Tourism within Kane County.

Citations
> "The interim final rule allowed for ‘‘aid to tourism, travel, and hospitality, and other impacted industries’’ that responds to the negative economic impacts of the COVID–19 public health emergency." (4381)
>" Treasury further provided that aid should be limited to businesses, attractions, business districts, and Tribal development districts that were operating prior to the pandemic and affected by required closures and other efforts to contain the pandemic. Examples of eligible aid include assistance to implement COVID–19 mitigation and infection prevention measures, aid to support safe reopening of businesses in these industries, as well as aid for a planned expansion or upgrade of tourism, travel, and hospitality facilities delayed due to the pandemic. The interim final rule and Treasury’s subsequent Compliance and Reporting Guidance also required governments to publicly report assistance provided to private-sector businesses under this eligible use and maintain records of their assessments to facilitate transparency and accountability." (pg. 4381)
>"Examples of aid that recipients asked to be considered eligible include aid to businesses to cover COVID–19 mitigation costs and planned renovations or improvements to tourism, travel, and hospitality facilities, as well as marketing and in-kind incentives to attract visitors. " (pg. 4382)
Response:": In response to commenters’ requests for clarification on eligible aid, the final rule requires that aid to impacted industries, including to Tribal development districts, be designed to address the harm experienced by the impacted industry. First, recipients should identify a negative economic impact, i.e., an economic harm, that is experienced by businesses in the impacted industry. Second, recipients should select a response that is designed to address the identified economic harm resulting from or exacerbated by the public health emergency. Responses must also be related and reasonably proportional to the extent and type of harm experienced; uses that bear no relation or are grossly disproportionate to the type or extent of harm experienced would not be eligible uses" (pg. 4383)

F **ARPA SLFRF Eligibility Justification Requirements - Necessary with Item D.11 is marked "No"**

F.1 **Designating a Public Health Impact**

n/a

F.1a **Guidance: See Final Rule, 87 Fed Reg 4343.** There must be a negative public health impact or harm experienced by an individual or a class. For ease of administration, the interim final rule allowed, and the final rule maintains the ability for, recipients to identify a public health impact on a population or group of individuals, referred to as a ''class,'' and to provide assistance to that class.

F.2 **Designating a Negative Economic Impact**

Covid-19's impact on the hospitality and tourism industry has been devastating and unprecedented. The impact is estimated to be about nine times of that from 9/11. Many of our properties were unable to host group meetings, tournaments, and events. Restaurants were also affected by the closing of indoor dining, stay-at-home orders, and strict capacity limits. These mitigations forced the restaurant industry to pivot, when they could, to takeout and delivery. Though assisted with Federal Relief Programs to pay employees not laid off and other rent and operational grants and loans, the future of the once robust hospitality industry that employed 1 in every 10 workers in Illinois is in peril. The hospitality industry took the brunt of the damage as a business sector and needs targeted long-term support to rebuild and regain its place as an economic powerhouse.
For Kane County the average change was a decrease of 40% in hotel occupancy with a peak of 63.5% in the early months of COVID, as reported by Smith Travel Research.
The Power of Travel is essential for economic recovery in Kane County. The hospitality and travel industry has been ravaged by the Covid-19 Pandemic. Prior to the pandemic year of 2020, visitor spending in Kane County topped $532.78 million in 2019. In 2020, visitor spending and tax revenues statewide were down 49%. Regaining our position in the highly competitive tourism market is paramount. The result will be a lower tax burden to Kane County residents.

F.2a **Guidance: See Final Rule, 87 Fed Reg 4343.** First, there must be a negative economic impact, or an economic harm, experienced by an individual or a class. The recipient should assess whether, and the extent to which, there has been an economic harm, such as loss of earnings or revenue, that resulted from the COVID–19 public health emergency. A recipient should first consider whether an economic harm exists and then whether this harm was caused or made worse by the COVID–19 public health emergency. Second, the response must be designed to address the identified economic harm or impact resulting from or exacerbated by the public health emergency. In selecting responses, the recipient must assess whether, and the extent to which, the use would respond to or address this harm or impact.

F.3 **Description of how proposed program addresses/responds to harm and is reasonable**

We have the perfect location, with our close proximity to Chicago and the Fox River, for leisure road trips, meetings, group tours and sporting events. Easy access by car, train, and air. Open spaces filled with hiking, water activities and biking. We need to bring back the hospitality workforce and promote our communities as destinations to meet, to play, to work and to live. In fact, we must be relentless in positioning Kane County as a destination. If we do that, then we are – in turn – relentless in protecting the livelihood of our small businesses, our local flavors, and ultimately protecting the livelihood of our economy, our communities and our families.Locally we offer visitors experiences up and down the Fabulous Fox! Water Trail with kayaking and biking, events that bring visitors from across the Midwest, architecture worth exploring, with a variety of boutiques and specialty shops and lodging options.Our Kane County communities are home to an amazing food scene and some of the best agritourism opportunities anywhere in Illinois. We are home to an active outdoor lifestyle with miles of bike trails, hiking, and running trails. Kane County also boasts several colleges and universities drawing students and visitors from near and far.
Cook County and Lake County have granted out ARPA and additional federal funding to their state-certified convention and visitor bureaus over the last couple of years. It was with those plans in mind that the Elgin Area Convention & Visitors Bureau and Aurora Area Convention & Visitors Bureau worked together to create a template for a similar plan for Kane County's state-certified convention and visitor bureaus. These efforts would focus on attracting leisure travelers and tournaments to the region to create additional hotel tax and help rebound the hospitality industry.

F.3a **Guidance: See Final Rule, 87 Fed Reg 4343.** The program, service, or other intervention must address or respond to the identified impact or harm. The final rule maintains the interim final rule requirement that eligible uses under this category must be in response to the disease itself or other public health harms that it caused Responses must be reasonably designed to benefit the individual or class that experienced the public health impact or harm. Uses of funds should be assessed based on their responsiveness to their intended beneficiaries and the ability of the response to address the impact or harm experienced by those beneficiaries Responses must also be related and reasonably proportional to the extent and type

of public health impact or harm experienced. Uses that bear no relation or are grossly disproportionate to the type or extent of harm experienced would not be eligible uses.

F.4 **Assessment of whether identified industry is eligible**

Tourism is presumed to be impacted by the pandemic.

F.4a **Guidance: See Final Rule, 87 Fed Reg 4382.** Simplified test. An industry is presumed to be impacted if the industry experienced employment loss of at least 8 percent. Specifically, a recipient should compare the percent change in the number of employees of the recipient's identified industry and the national Leisure & Hospitality sector in the three months before the pandemic's most severe impacts began (a straight three-month average of seasonally-adjusted employment data from December 2019, January 2020, and February 2020) with the latest data as of the final rule release (a straight three-month average of seasonally-adjusted employment data from September 2021, October 2021, and November 2021).

If an industry does not satisfy the test above or data are unavailable, the recipient may still designate the industry as impacted by demonstrating the following: the recipient can show that the totality of relevant major economic indicators demonstrate that the industry is experiencing comparable or worse economic impacts as the national tourism, travel, and hospitality industries at the time of the publication of the final rule, and that the impacts were generally due to the COVID–19 public health emergency. Recipients may rely on available economic data, government research publications, research from academic sources, and other quantitative sources for this determination. If quantitative data is unavailable, the recipient can rely on qualitative data to show that the industry is experiencing comparable or worse economic impacts as the national tourism, travel, and hospitality industries, and the impacts were generally due to the COVID–19 public health emergency. Recipients may rely on sources like community interviews, surveys, and research from relevant state and local government agencies

G **Capital Expenditure Evaluations - Complete if Item 16 is marked as "Between $1 m and $10 m" or "Over 10 m"**

G.1 ***1. Description of harm or need to be addressed***

n/a

G.1a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should provide a description of the specific harm or need to be addressed, and why the harm was exacerbated or caused by the public health emergency. When appropriate, recipients may provide quantitative information on the extent and type of the harm, such as the number of individuals or entities affected.

G.2 ***2. Explanation of why a capital expenditure is appropriate***

n/a

G.2a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should provide an independent assessment demonstrating why a capital expenditure is appropriate to address the specified harm or need. This should include an explanation of why existing capital equipment, property, or facilities would be inadequate to addressing the harm or need and why policy changes or additional funding to pertinent programs or services would be insufficient without the corresponding capital expenditures. Recipients are not required to demonstrate that the harm or need would be irremediable but for the additional capital expenditure; rather, they may show that other interventions would be inefficient, costly, or otherwise not reasonably designed to remedy the harm without additional capital expenditure.

3. Comparison of the proposed capital expenditure against alternative capital expenditures

G.3 a. A comparison of the effectiveness of the capital expenditures in addressing the harm identified

n/a

G.3a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should generally consider the effectiveness of the capital expenditures in addressing the harm over the useful life of the capital asset and may consider metrics such as the number of impacted or disproportionately impacted individuals or entities served, when such individuals or entities are estimated to be served, the relative time horizons of the project, and consideration of any uncertainties or risks involved with the capital expenditure.

G.4 b. A comparison of the expected total cost of the capital expenditures

n/a

G.4a **Guidance: See Final Rule, 87 Fed Reg 4390-4391.** Recipients should consider the expected total cost of the capital expenditure required to construct, purchase, install, or improve the capital assets intended to address the public health or negative economic impact of the public health emergency. Recipients should include pre-development costs in their calculation and may choose to include information on ongoing operational costs, although this information is not required.

H **Equitable Outcomes - Complete it item 18 is populated with "Yes".**

H.1 **Description of equitable outcome goal and how the proposed program expects to achieve this goal**

n/a

Tourism Proposal

AMERICAN RESCUE PLAN ACT

Submitted By:

Krisilee Murphy, Elgin Area Convention & Visitors Bureau (EACVB), State-Certified

PANDEMIC IMPACT TO HOSPITALITY OVERVIEW

Covid-19's impact on the hospitality and tourism industry has been devastating and unprecedented. The impact is estimated to be about nine times of that from 9/11. Many of our properties were unable to host group meetings, tournaments and events. Restaurants were also affected by the closing of indoor dining, stay-at-home orders and strict capacity limits. These mitigations forced the restaurant industry to pivot, when they could, to takeout and delivery. Though assisted with Federal Relief Programs to pay employees not laid off and other rent and operational grants and loans, the future of the once robust hospitality industry that employed 1 in every 10 workers in Illinois is in peril. The hospitality industry took the brunt of the damage as a business sector and needs targeted long-term support to rebuild and regain its place as an economic powerhouse for Kane County. For Kane County the average change was a decrease of **40% in hotel occupancy** with a **peak of 63.5%** in the early months of COVID, as reported by Smith Travel Research.

The Power of Travel is essential for economic recovery in Kane County. The hospitality and travel industry has been ravaged by the Covid-19 Pandemic. Prior to the pandemic year of 2020, visitor spending in Kane County topped $656.5 million in 2019. In 2020, visitor spending

and tax revenues statewide were down 49%. Regaining our position in the highly competitive tourism market is paramount. The result will be a lower tax burden to Kane County residents.

We have the perfect location, with our close proximity to Chicago and the Fox River, for leisure road trips, meetings, group tours and sporting events. Easy access by car, train and air. Open spaces filled with hiking, water activities and biking. We need to bring back the hospitality workforce and promote our communities as destinations to meet, to play, to work and to live. In fact, we must be relentless in positioning Kane County as a destination. If we do that, then we are – in turn – relentless in protecting the livelihood of our small businesses, our local flavors, and ultimately protecting the livelihood of our economy, our communities and our families.

Locally we offer visitors experiences up and down the Fabulous Fox! Water Trail with kayaking and biking, events that bring visitors from across the Midwest, architecture worth exploring, with a variety of boutiques and specialty shops and lodging options.

Our Kane County communities are home to an amazing food scene and some of the best agritourism opportunities anywhere in Illinois. We are home to an active outdoor lifestyle with miles of bike trails, hiking, and running trails. Kane County also boasts several colleges and universities drawing students and visitors from near and far.

STRATEGIC INITIATIVE

Cook County and Lake County have granted out ARPA and additional federal funding to their state-certified convention and visitor bureaus over the last couple of years. It was with those plans in mind that the Elgin Area Convention & Visitors Bureau and Aurora Area Convention & Visitors Bureau worked together to create a template for a similar plan for Kane County's state-certified convention and visitor bureaus. These efforts would focus on attracting leisure travelers and tournaments to the region to create additional hotel tax and help rebound the hospitality industry.

Bringing a tournament, meeting or visitor to Kane County is more competitive than ever before. We are now competing with destinations that were given ARPA and additional federal funding to rebound their hospitality economy. They are putting that money directly into bid fees and incentives for groups.

ARPA FUNDS REQUESTED

After discussion with Kane County staff the Elgin Area Convention & Visitors Bureau is requesting $794,000 to be distributed over a three-year period, with funds being distributed at the beginning of the fiscal year.

Total funds requested $794,000 to be distributed over a three-year period as outlined below:

	2024	2025	2026
MARKETING			
Digital Ads	$154,666.67	$154,666.67	$154,666.67
Print Ads	$80,000	$80,000	$80,000
MARKETING SERVICES			
Datafy Software or Similar	$30,000	$30,000	$30,000
TOTAL	$264,666.67	$264,666.67	$264,666.67

- These are estimates of overall costs. Flexibility is crucial as publications, pricing and market focus may change over the three-year period.

Definitions of Line Items

Marketing

- All digital and print ads will target drive markets already used by the Elgin Area Convention & Visitors Bureau and Illinois Office of Tourism.
- Target leisure markets will primarily include Chicago/Metro, Iowa/Quad Cities, Indiana/Indianapolis and Wisconsin/Southern with the greater Midwest region included based on messaging and relevancy.
- Ads will focus on niches relevant to Kane County/Elgin Area: Fabulous Fox! Water Trail/Outdoor Recreation, Sports Tournaments, Agritourism, Weekend Getaways for Families and Food Trails to promote small businesses.
- Digital ads will run through Datafy, Google or Social Media and will be managed EACVB staff.
- Print ads can be in Midwest Living Magazine, AAA Living, Illinois Travel Guide or other print magazines that make sense for attracting overnight visitors.
- All ads will lead potential visitors to www.ExploreElginArea.com which will feature a clickable Kane County logo.Once a logo is determined those can also be placed on ads.

Marketing Services

- Datafy or a similar company, is a contract that will give the Elgin Area Convention & Visitors Bureau hard data to make educated decisions with all ad dollars and track visitor spending throughout the destination. This data will be shared with Kane County on reports.

Reporting

All ads will be directed to ExploreElginArea.com where the county logo will be placed on the footer of the main page, similar to Enjoy Illinois. The website pages are tracked through Google Analytics.

Elgin Area Convention & Visitors Bureau will provide quarterly reports, similar to performance reports given to the Illinois Office of Tourism for the Local Tourism and Convention Bureau grant. Results will also be reported on the Elgin Area Convention & Visitors Bureau Quarterly Report in a special section drawing attention to the county program. Elgin Area Convention & Visitors Bureau will provide a full report and proof of funds expensed at the end of each year.

Elgin Area Convention & Visitors Bureau runs on a fiscal year of July 1st - June 30th.

AGENCIES CONTACT INFORMATION

Elgin Area Convention & Visitors Bureau – State Certified CVB
Krisilee Murphy – Krisilee@ExploreElginArea.com
630-337-7390 (direct)
www.ExploreElginArea.com

Communities Represented: Elgin, Carpentersville, East Dundee, Gilberts, Hampshire, Pingree Grove, Sleepy Hollow, South Elgin, West Dundee

Plan is partially in partnership with Aurora Area Convention & Visitors Bureau

Aurora Area Convention & Visitors Bureau – State Certified CVB
Cort Carlson - cort@enjoyaurora.com
630-256-3191 (direct)
www.EnjoyAurora.com

Communities Represented: Aurora, Batavia, Big Rock, Hinckley, Montgomery, North Aurora and Sugar Grove

Tourism Proposal

AMERICAN RESCUE PLAN ACT

Submitted By:

Cort Carlson, Aurora Area Convention & Visitors Bureau (AACVB), State-Certified

PANDEMIC IMPACT TO HOSPITALITY OVERVIEW

Covid-19's impact on the hospitality and tourism industry has been devastating and unprecedented. The impact is estimated to be about nine times of that from 9/11. Many of our properties were unable to host group meetings, tournaments and events. Restaurants were also affected by the closing of indoor dining, stay-at-home orders and strict capacity limits. These mitigations forced the restaurant industry to pivot, when they could, to takeout and delivery. Though assisted with Federal Relief Programs to pay employees not laid off and other rent and operational grants and loans, the future of the once robust hospitality industry that employed 1 in every 10 workers in Illinois is in peril. The hospitality industry took the brunt of the damage as a business sector and needs targeted long-term support to rebuild and regain its place as an economic powerhouse for Kane County. For Kane County the average change was a decrease of **40% in hotel occupancy** with a **peak of 63.5%** in the early months of COVID, as reported by Smith Travel Research.

The Power of Travel is essential for economic recovery in Kane County. The hospitality and travel industry has been ravaged by the Covid-19 Pandemic. Prior to the pandemic year of 2020, visitor spending in Kane County topped $656.5 million in 2019. In 2020, visitor spending

and tax revenues statewide were down 49%. Regaining our position in the highly competitive tourism market is paramount. The result will be a lower tax burden to Kane County residents.

We have the perfect location, with our close proximity to Chicago and the Fox River, for leisure road trips, meetings, group tours and sporting events. Easy access by car, train and air. Open spaces filled with hiking, water activities and biking. We need to bring back the hospitality workforce and promote our communities as destinations to meet, to play, to work and to live. In fact, we must be relentless in positioning Kane County as a destination. If we do that, then we are – in turn – relentless in protecting the livelihood of our small businesses, our local flavors, and ultimately protecting the livelihood of our economy, our communities and our families.

Locally we offer visitors experiences up and down the Fabulous Fox! Water Trail with kayaking and biking, events that bring visitors from across the Midwest, architecture worth exploring, with a variety of boutiques and specialty shops and lodging options.

Our Kane County communities are home to an amazing food scene and some of the best agritourism opportunities anywhere in Illinois. We are home to an active outdoor lifestyle with miles of bike trails, hiking, and running trails. Kane County also boasts several colleges and universities drawing students and visitors from near and far.

STRATEGIC INITIATIVE

Cook County and Lake County have granted out ARPA and additional federal funding to their state-certified convention and visitor bureaus over the last couple of years. It was with those plans in mind that the Aurora Area Convention & Visitors Bureau and Elgin Area Convention & Visitors Bureau worked together to create a template for a similar plan for Kane County's state-certified convention and visitor bureaus. These efforts would focus on attracting leisure travelers and tournaments to the region to create additional hotel tax and help rebound the hospitality industry.

Bringing a tournament, meeting or visitor to Kane County is more competitive than ever before. We are now competing with destinations that were given ARPA and additional federal funding to rebound their hospitality economy. They are putting that money directly into bid fees and incentives for groups.

ARPA FUNDS REQUESTED

After discussion with Kane County staff the Aurora Area Convention & Visitors Bureau is requesting $794,000 to be distributed over a three-year period, with funds being distributed at the beginning of the fiscal year.

Total funds requested $794,000 to be distributed over a three-year period as outlined below:

	Year 1	Year 2	Year 3
ADVERTISING			
Digital ads	$162,933.33	$162,933.33	$162,933.33
Print ads	$85,000	$85,000	$85,000
MARKETING SERVICES			
Datafy	$16,733.34	$16,733	$16,733
TOTAL	$264,666.67	$264,666.67	$264,666.67

** These are estimates of overall costs. Flexibility is crucial as publications, pricing and market focus may change over the three-year period.*

Definitions of Line Items

Marketing

- All digital and print ads will target drive markets already used by the Aurora Area Convention & Visitors Bureau and Illinois Office of Tourism.
- Target leisure markets will primarily include Chicago/Metro, Iowa/Quad Cities, Indiana/Indianapolis and Wisconsin/Southern with the greater Midwest region included based on messaging and relevancy.
- Leisure advertising will focus on attractions relevant to Kane County/Aurora Area: Fabulous Fox! Water Trail/Outdoor Recreation, Sports Tournaments, Agritourism, Weekend Getaways for Families and Food Trails to promote small businesses.
- Niche market advertising will focus on sports, groups, and meetings, highlighting Stuart Sports Complex and other relevant attractions to each market.
- Digital ads will run through Datafy, Google or Social Media and will be managed AACVB staff.
- Print ads can be in Midwest Living Magazine, AAA Living, Illinois Travel Guide or other print magazines that make sense for attracting overnight visitors.
- All ads will lead potential visitors to http://www.enjoyaurora.com/ which will feature a clickable Kane County logo.Once a logo is determined those can also be placed on ads.

Marketing Services

Datafy is a software as a service (SaaS) platform contracted by the Aurora Area Convention & Visitors Bureau to make educated decisions with all ad dollars and track visitor spending throughout the destination. This data will be shared with Kane County on reports.

Reporting

All ads will be directed to EnjoyAurora.com where the county logo will be placed on the footer of the main page, similar to Enjoy Illinois. The website pages are tracked through Google Analytics.

Aurora Area Convention & Visitors Bureau will provide quarterly reports, similar to performance reports given to the Illinois Office of Tourism for the Local Tourism and Convention Bureau grant. Results will also be reported on the Aurora Area Convention & Visitors Bureau Quarterly Report in a special section drawing attention to the county program. Aurora Area Convention & Visitors Bureau will provide a full report and proof of funds expended at the end of each year.

Aurora Area Convention & Visitors Bureau runs on a fiscal year of July 1st - June 30th.

AGENCIES CONTACT INFORMATION

Aurora Area Convention & Visitors Bureau – State Certified CVB
Cort Carlson - cort@enjoyaurora.com
630-256-3191 (direct)
www.EnjoyAurora.com

Communities Represented: Aurora, Batavia, Big Rock, Hinckley, Montgomery, North Aurora and Sugar Grove

Plan is partially in partnership with Elgin Area Convention & Visitors Bureau

Elgin Area Convention & Visitors Bureau – State Certified CVB
Krisilee Murphy – Krisilee@ExploreElginArea.com
630-337-7390 (direct)
www.ExploreElginArea.com

Communities Represented: Elgin, Carpentersville, East Dundee, Gilberts, Hampshire, Pingree Grove, Sleepy Hollow, South Elgin, West Dundee

October 10, 2023

Unique Identifier: 36872855

GRANT AGREEMENT BETWEEN THE COUNTY OF KANE AND ELGIN AREA CONVENTION AND VISITORS BUREAU

THIS AGREEMENT, having start date of December 1, 2023, is entered into by and between the County of Kane ("County"), and Elgin Area Convention and Visitors Bureau ("Subrecipient"), and governs disbursement of the Department of Treasury Coronavirus State and Local Fiscal Recovery Funds by the County to the Subrecipient. The County and Subrecipient shall sometimes be referred to collectively as the "Parties."

WHEREAS, on March 13, 2020, the President of the United States issued a Proclamation on Declaring a National Public Health Emergency as a result of the COVID-19 outbreak; and

WHEREAS, on March 11, 2021, the President of the United States signed into law the American Rescue Plan Act ("ARPA"); and

WHEREAS, to implement ARPA, the United States Department of the Treasury ("Treasury Department") published administrative regulations on May 17, 2021 (86 Fed. Reg. 26786) ("Interim Final Rule") and on January 27, 2022 (87 Fed. Reg. 4338) ("Final Rule"); and

WHEREAS, through ARPA, the Congress of the United States has appropriated funding, the Coronavirus State and Fiscal Recovery Funds ("SLFRF") to remain available through December 31, 2024, for making payments to metropolitan cities, nonentitlement units of local government, and counties to mitigate the fiscal effects stemming from the public health emergency with respect to COVID-19; and

WHEREAS, the Federal Award Identification Number (FAIN) is SLFRP0243, the federal awarding agency is U.S. Department of Treasury and the Assistance Listing Number is 21.027; and

WHEREAS, the County qualified as an eligible unit of local government and received SLFRF on 05/18/2021; and

WHEREAS, a unit of local government may award grants consistent with the criteria of ARPA and the Final Rule; and

WHEREAS, in accordance with ARPA (*see* 42 U.S.C §803(c)), the County shall only use SLFRF: (1) to respond to the public health emergency with respect to COVID-19 or its negative economic impacts; (2) to respond to workers performing essential work during the COVID-19 public health emergency by providing premium pay to eligible workers of the County, or by providing grants to eligible employers that have eligible workers who perform essential work; (3) for the provision of government services to the extent of the reduction in revenue of the County due to the COVID-19 public health emergency relative to revenues collected in the most full fiscal year of the County prior to the emergency; or (4) to make necessary investments in water, sewer, or broadband infrastructure; and

WHEREAS, ARPA provides that if the County fails to comply with 42 U.S.C §803(c), the County shall be required to repay to the Secretary of the Treasury Department an amount equal to the amount of funds used in violation of such subsection; and

WHEREAS, the purpose of this Agreement will be implemented in accordance with

Exhibit A: Program Terms; and

WHEREAS, this Agreement is intended to distribute a portion of the County's SLFRF award from the County to the Subrecipient to benefit the citizens of Kane County.

NOW, THEREFORE, the Parties mutually agree as follows:

I. TERMS & CONDITIONS

The purpose of this Agreement is to establish a legal relationship between the County and the Subrecipient to implement programming associated with the COVID-19 public health emergency. The following requirements are applicable to all activities undertaken pursuant to this agreement with the portion of the SLFRF that the County intends to distribute to the Subrecipient as grant payments.

A. Compliance with Applicable Requirements: This Agreement requires compliance with the laws and regulations of the State of Illinois and with all applicable State and local orders, laws, regulations, rules, policies, and certifications governing any activities undertaken during the performance of this Agreement. This Agreement also requires compliance with the Uniform Administrative Requirements, Cost Principles, and Audit Requirements, which are published in Title 2, Part 200 of the Code of Federal Regulations (2 CFR Part 200), and all applicable guidance issued by the Treasury Department and all other applicable Federal laws and regulations.

B. Hold Harmless: The Subrecipient shall hold harmless, release, and defend the County from any and all claims, actions, suits, charges and judgments whatsoever that arise out of the Subrecipient's performance or nonperformance of the services or subject matter called for in this Agreement. The Subrecipient agrees to hold the County harmless for any evaluation and/or advice which the County provided in its application and review process as to whether requested reimbursement(s) are/were permissible uses of the grant funds.

C. Indemnification: The Subrecipient shall indemnify the County, its officers, agents, employees, and the Federal awarding agency, from any claim, liability, loss, injury or damage arising out of, or in connection with, performance of this Agreement by the Subrecipient and/or its agents, employees or sub-contractors. It is the intent of the Parties to this Agreement to provide the broadest possible indemnification for the County. This indemnification shall include, but is not limited to, instances where the County relied upon the certification of the Subrecipient that such expenses which the Subrecipient sought to have reimbursed from the grant funds were eligible and met all requirements for reimbursement, but where the Office of the Inspector General, or any other Federal person, official, or agency that is charged with the auditing and review of expenditures of the grant funds determines that such expenses and/or reimbursement was not permitted under ARPA. In such instances, the Subrecipient agrees to indemnify, reimburse, and make whole the County for any funds which the government of the United States or its agencies seeks to, or does, recoup or collect in any manner, through litigation, by withholding other Federal funds owed to the County, or otherwise. The Subrecipient further agrees to indemnify, reimburse, or

make whole the County for any penalties associated with the Federal government seeking to recoup the expended SLFRF that the County disbursed to the Subrecipient, including interest, attorney's fees, or any penalty provided by law. The Subrecipient shall reimburse the County for all costs, attorneys' fees, expenses and liabilities incurred with respect to any litigation in which the Subrecipient is obligated to indemnify, defend and hold harmless the County under this Agreement. The Subrecipient shall also reimburse the County for all costs, expenses, and liabilities, including but not limited to, attorney's fees, and/or auditor/auditing fees, as a result of any challenge to the eligibility of the Subrecipient's use of the grant payments by the Federal government. If the County determines that the Subrecipient has used the grant payments inconsistent with the objectives of the Subrecipient's project, inconsistent with the provisions of ARPA and the Final Rule, or inappropriately, or if the Subrecipient has not spent the total amount of grant funds by the end of the period of performance, the Subrecipient shall repay the amount identified by the County to: County of Kane.

D. Misrepresentations & Noncompliance: The Subrecipient hereby asserts, certifies and reaffirms that all representations and other information contained in the Subrecipient's documentation, any subsequent requests for reimbursement, or any agreed-upon budget modifications are true, correct and complete, and to the best of the Subrecipient's knowledge. The Subrecipient acknowledges that all such representations and information have been relied on by the County to provide the grant funds under this Agreement. The Subrecipient shall promptly notify the County, in writing, of the occurrence of any event or any material change in circumstances which would make any of the Subrecipient representation(s) or information untrue or incorrect or otherwise impair the Subrecipient's ability to fulfill the Subrecipient's obligations under this Agreement.

E. Workers' Compensation: The Subrecipient shall provide Workers' Compensation Insurance coverage commensurate with statutory requirements for all of its employees involved in the performance of this Agreement.

F. Insurance: The Subrecipient shall carry sufficient insurance coverage to protect any grant funds provided to the Subrecipient under this Agreement from loss due to theft, fraud and/or undue physical damage. The Subrecipient's insurance coverage shall be adequate to satisfy the indemnification provisions set forth in this Agreement. Upon County request, the Subrecipient shall provide a Certificate of Insurance satisfactory to the requirement of the County. If the Subrecipient is self-insured, then the Subrecipient shall maintain excess coverage over and above its self-insured retention limits.

G. Amendments: This Agreement may be amended at any time only by a written instrument signed by both Parties. Such amendments shall not invalidate this Agreement, nor relieve or release either Party from its obligations under this Agreement. The County may, in its discretion, amend this Agreement to conform with Federal, State or local governmental guidelines, policies and available funding amounts.

If such amendments result in a change in the funding, the scope of services, or schedule of the activities to be undertaken as part of this Agreement, such modifications will be incorporated only by written amendment signed by both Parties. The Parties otherwise contemplate that the terms of this Agreement shall incorporate any subsequent amendments to ARPA or any regulations promulgated by the Treasury Department or other Federal agency, without need for further written amendment to this Agreement. The Subrecipient agrees to adhere to any amendments to ARPA or any related Federal laws or regulations.

H. Suspension or Termination: The County may suspend or terminate this Agreement upon written notice if the Subrecipient materially fails to comply with any terms of this Agreement, which include, but are not limited to, the following:

- Failure to comply with any of the rules, regulations or provisions referred to herein, or any such State and Federal statutes, regulations, executive orders, and Federal awarding agency guidelines, policies or directives as may become applicable at any time;
- Failure, for any reason, of the Subrecipient to fulfill in a timely and proper manner its obligations under this Agreement;
- Ineffective or improper use of grant funds provided to the Subrecipient under this Agreement; or
- Submission by the Subrecipient to the County reports that are incorrect or incomplete in any material respect.

If this Agreement is terminated, in whole or in part, the Parties shall comply with all close-out and post-termination requirements of this agreement.

I. Program Fraud & False or Fraudulent Statements or Related Acts: The Subrecipient must comply with 31 U.S.C. Chapter 38, Administrative Remedies for False Claims and Statements, which shall apply to the activities and actions of the Subrecipient pertaining to any matter resulting from a contract.

J. Debarment / Suspension and Voluntary Exclusion:

- Non-Federal entities and contractors are subject to the debarment and suspension regulations implementing Executive Order 12549, Debarment and Suspension (1986) and Executive Order 12689, Debarment and Suspension (1989) at 2 CFR Part 180 and the Department of Homeland Security's regulations at 2 CFR Part 3000 (Nonprocurement Debarment and Suspension).
- These regulations restrict awards, subawards, and contracts with certain parties that are debarred, suspended, or otherwise excluded from or ineligible for participation in Federal assistance programs and activities. A contract must not be issued to parties listed in the Systems of Award Management ("SAM") Exclusions. SAM Exclusions is the list maintained by the General Services Administration that contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. SAM exclusions can be accessed at www.sam.gov.

K. **Governing Law and Venue:** This Agreement shall be interpreted under, and governed by, the laws of the State of Illinois, without regard to conflicts of laws principles. Any claim, suit, action, or proceeding brought in connection with this Agreement shall be in the Circuit Court of Kane County and each Party hereby irrevocably consents to the personal and subject matter jurisdiction of such court and waives any claim that such court does not constitute a convenient and appropriate venue for such claims, suits, actions, or proceedings.

L. **Conflict of Interest:** The Subrecipient shall maintain written standards of conduct covering conflicts of interest and governing the actions of its employees engaged in the selection, award and administration of contracts. No employee, officer, or agent may participate in the selection, award, or administration of a contract supported by a Federal award if he or she has a real or apparent conflict of interest. Such a conflict of interest would arise when the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of the parties indicated herein, has a financial or other interest in or a tangible personal benefit from a firm considered for a contract.

M. **Term:** This Agreement shall be effective on December 1, 2023 and shall expire on September 30, 2026, unless terminated pursuant to this Agreement. Any grant funds that are not expended by the Subrecipient at the end of the period of performance for this Agreement shall be returned to the County within 30 (thirty) days. The County is not obligated to provide any of the County's SLFRF for any invoices made or submitted beyond the Budget Period.

N. **Eligible Expenses:** The Subrecipient shall spend funds on allowable costs, as described below. The Subrecipient shall spend funds in accordance with 2 CFR Part 200, ARPA, the Final Rule, and current and future guidance issued by the Treasury Department for the use of SLFRF. For the purposes of this agreement, the Subrecipient is authorized to spend the grant funds only for the purposes set forth in **Exhibit A,** which is incorporated herein by reference. **Exhibit A** contains a description of the components of the Subrecipient's program and the eligible uses of grant funds. The Subrecipient agrees that the sole and exclusive decision as to whether or not the Subrecipient's use of the grant funds is approved lies within the discretion of the County. The Subrecipient acknowledges and agrees that the County may deny the use of grant funds which, in the discretion of the County, is not a permitted use of SLFRF under APRA, the Final Rule, and any current and future guidance issued by the Treasury Department. The County's approval of this agreement does not guarantee that the Subrecipient's use of the grant funds will ultimately be approved by the County, the Treasury Department, or the Office of the Inspector General. Any portion of the award that is not used for the purposes set forth in **Exhibit A** shall be repaid to the County.

O. **Payments:** The sole source of grant payments under this Agreement shall be from the County's SLFRF. The County shall not be obligated to fund the Subrecipient from

any other source. The County shall not be obligated to provide any grant funds in excess of the Award Amount under this Agreement. The Subrecipient will submit financial reports to support the payment schedule per the terms in **Exhibit A**. The Subrecipient shall not use grant funds for costs reimbursed or to be covered by other grants, insurance, State or Federal sources, including but not limited to CARES Act programs, FEMA, and any other source of financial recovery from COVID-19.

P. Record Retention: The Subrecipient shall maintain all records and supporting documents, and all records relevant to this Agreement for five (5) years after all SLFRF have been expended or returned to the Treasury Department by the County. The Subrecipient agrees to cooperate with the County and will ensure that it maintains such records to allow the County to comply with any and all recordkeeping requirements under Federal or State law, or pursuant to any court order. If any litigation, claim or audit is started before the expiration of this retention period, the records must be retained until all litigation, claims or audit findings involving the records have been resolved and final action taken. The Subrecipient is responsible for ensuring all contractors and vendors, if applicable, adhere to these records' retention requirements.

Q. Internal Controls: The Subrecipient must comply with 2 CFR 200.303 and establish and maintain effective internal control over the funds allocated under this Agreement. When requested by the County, the Subrecipient must provide reasonable assurance that the Subrecipient is managing the award in compliance with Federal statutes, regulations, and the terms and conditions of the County's SLFRF award.

R. Specific Conditions: The Subrecipient will comply with any and all specific conditions established by the County, in compliance with 2 CFR 200.208, which are set forth in Exhibit B. Exhibit B is incorporated herein by reference.

S. Monitoring: The County has the right to conduct monitoring consistent with 2 CFR Part 200, including but not limited to 2 CFR 200.332. The Subrecipient shall participate in monitoring activities at the request of the County. The County may take any action described in 2 CFR 200.339 in order to remedy instances of non-compliance by the Subrecipient with the Agreement terms.

T. Reporting Procedures: Per Exhibit A, the Subrecipient agrees to submit the forms, certifications, and documentation as may be required by the County which document any expense for which Subrecipient has used the grant funds under this Agreement. The County may request ad-hoc reports and supporting documentation in addition to reimbursement requests. The County may also request that the Subrecipient comply with audit requests made by the Treasury Department. Such reporting and requests may include documentation of invoices, submission of payroll logs, and proof of contracts. to substantiate eligible expenses. Failure to submit proper documentation verifying eligible expenses may result in termination of this agreement and recoupment of awarded funds from the Subrecipient.

U. FOIA: The Subrecipient acknowledges that the County is a public body and agrees to

participate with the County in responding to any requests for information that the County receives related to the SLFRF funds pursuant to the Freedom of Information Act (5 ILCS 140/1 *et seq*. (West 2022)). The Subrecipient shall provide any documents requested by the County in a timely fashion to allow the County to comply with the requirements of the Freedom of Information Act.

V. Notices: Any and all notices, which may be required hereunder by any Party to the other Party, shall be executed by either personal delivery in writing or by mail, registered and certified, postage pre-paid with a return receipt requested. The Subrecipient agrees to keep the County informed of any change in business and/or mailing addresses, as well as telephone, facsimile, email, or any other relevant means of contact and communication. Mailed notices must be addressed to the Parties at the address below:

County: Kane County American Rescue Plan Program Manager
Kane County Government Center
719 S. Batavia Avenue, Building A
Geneva Illinois, 60134

Subrecipient: [Enter Subrecipient Contact Information]

II. SEVERABILITY

If any provision of this Agreement is held invalid, the remainder of the Agreement shall not be affected thereby and all other parts of this Agreement shall nevertheless be in full force and effect.

III. WAIVER

The County's failure to act with respect to a breach by the Subrecipient does not waive its right to act with respect to subsequent or similar breaches. The failure of the County to exercise or enforce any right or provision shall not constitute a waiver of such right or provision.

IV. CERTIFICATION

The Subrecipient certifies the funds awarded pursuant to this Agreement shall be used only for the purposes described in **Exhibit A**. The Subrecipient acknowledges that this Agreement is made solely upon this certification and that any false statements, misrepresentations, or material omissions shall be the basis for immediate termination of this Agreement and repayment of all SLFRF distributed under this Agreement. The Subrecipient understands that the grant funds under this Agreement are supported by the Treasury Department Coronavirus Local and Fiscal Recovery Fund established by Section 9901 of ARPA and the Final Rule. The Subrecipient will comply with, and is subject to, all requirements for the use of SLFRF and all related guidance issued by the Treasury Department. Costs that have been or shall be submitted for reimbursement have not been

reimbursed by other sources of funding.

V. SUBAWARD INFORMATION

The Federal Award associated with this Agreement is as follows:

Unique Identifier: [insert]

CFDA Number: 21.027

Assistance Listing Title: Coronavirus State and Local Fiscal Recovery Funds

Federal Awarding Agency: United States Department of Treasury

Federal Award Identification Number (FAIN): SLFRP0243

Federal Award Date to County: May 18, 2021

Award is for Research & Development: No

Period of Performance Start and End Date: December 1, 2023, through September 30, 2026

Budget Period: The timeframe for spending is from January 1, 2024, through September 30,2026.

Award Amount: Total obligation under this Agreement is $794,000.00

Contact for Program: Submit inquiries and questions to KaneARPA@co.kane.il.us

VI. ENTIRE AGREEMENT

This Agreement constitutes the entire agreement between the Parties for the use of funds received under this Agreement and it supersedes all prior or contemporaneous communications and proposals, whether electronic, oral, or written between the Parties relating to County's allocation of the grant funds to the Subrecipient. This Agreement is subject to availability of funds under ARPA. The County has no legal requirement to provide funding to any Subrecipient.

VII. SIGNATURE AUTHORITY

The following specific officers/officials, or their authorized designees, are required to sign this Agreement on behalf of the Subrecipient. Note: If this Agreement is signed by a designee, a duly authenticated delegation of authority evidencing the signer's authority to execute the Agreement for and on behalf of the Subrecipient must be attached to the Agreement for review by Kane County. The following signatory on behalf of the County has been authorized to execute this Agreement by resolution of the Kane County Board or authorized committee thereof.

IN WITNESS WHEREOF, the Parties hereto have caused their duly authorized representatives to execute this Agreement on the dates hereafter set forth below.

DRAFT

Subrecipient:
Signed:
Its Duly Authorized Agent
Printed Name:
Title:
Date:

County of Kane
Signed:
Its Duly Authorized Agent
Printed Name:
Title:
Date:

DRAFT

Exhibit A: Program Terms

1. Program Description: Subrecipient represents Elgin, Carpentersville, East Dundee, Gilberts, Hampshire, Pingree Grove, Sleepy Hollow, South Elgin, and West Dundee.

2. Purpose of Award: The Treasury Department has recognized that the tourism, travel, and hospitality industries were severely negatively impacted by the COVID-19 pandemic. This program will provide assistance to the impacted tourism, travel, and hospitality industries in Kane County.

3. Eligible Costs: The Subrecipient shall only spend the grant funds to respond to the COVID-19 public health emergency and its negative economic impacts. Consistent with that eligible use, the Subrecipient is authorized to spend $794,000 (Seven Hundred Ninety-Four Thousand Dollars) to provide assistance to the impacted tourism, travel, and hospitality industries in Kane County. Eligible costs are considered:

(A) $464,000 (Four Hundred and Sixty-Four Thousand Dollars) for digital advertisement marketing to promote the tourism, travel, and hospitality industries in Kane County;

(B) $240,000 (Two Hundred and Forty Thousand Dollars) for print advertisement Ads, to promote the tourism, travel, and hospitality industries in Kane County;

(C) $90,000 (Ninety Thousand Dollars) for the Subrecipient's Datafy Software or similar software to assist in utilizing hard data to make educated decisions and track visitor spending on any spending associated with tourism, travel and hospitality.

4. Performance Measures: The County may request additional information from the Subrecipient as needed to measure performance under this Agreement.

5. Required Reporting

a. Programmatic reports: At the County's request, the Subrecipient shall submit programmatic reports to facilitate any requirements under the Uniform Administrative Requirements, Cost Principles, and Audit Requirements, which are published in Title 2, Part 200 of the Code of Federal Regulations (2 CFR Part 200), and any supporting documentation related to this Agreement and the Subrecipient's implementation of the Program.

b. Financial reports: At the County's request, the Subrecipient shall submit financial reports to facilitate any requirements under the Uniform Administrative Requirements, Cost Principles, and Audit Requirements, which are published in Title 2, Part 200 of the Code of Federal Regulations (2 CFR Part 200), and any supporting documentation related to this Agreement and the Subrecipient's implementation of the Program. Financial reports shall describe the expenditures related to this Agreement. The Subrecipient's accounting and financial management system shall be sufficient to permit the preparation of financial reports required in connection with this Agreement and the tracing of funds to a level of expenditure adequate to establish that such funds have been used pursuant to the terms of this agreement.

c. Closeout reports: The Subrecipient shall describe the status of the implementation of the Program and all related activities. The closeout report shall further include an accounting of all costs and expenses incurred by the Subrecipient and such other information as the County deems necessary to facilitate closeout of this Agreement and permit the County to meet all of its obligations and requirements under the same.

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6. Payment

The Subrecipient will submit invoices for expenditures of eligible costs for the County to make direct payments. Invoices must be presented to the County each month on a day to be determined by the County. The Subrecipient will submit with each invoice, any forms or other documentation indicating the expenditures that are for tourism, travel and hospitality. The Subrecipient will supply a quarterly report detailing their activities and use of grant funds pursuant to this Agreement.

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Exhibit B: Specific Conditions

1. Per 2 C.F.R. 200.208, the Subrecipient shall comply with the following Specific Conditions under this Agreement:

The County retains the right to impose specific conditions, as needed.

DRAFT

October 10, 2023

Unique Identifier: 36872855

GRANT AGREEMENT BETWEEN THE COUNTY OF KANE AND AURORA AREA CONVENTION AND VISITORS BUREAU

THIS AGREEMENT, having start date of December 1, 2023, is entered into by and between the County of Kane ("County"), and Aurora Area Convention and Visitors Bureau ("Subrecipient"), and governs disbursement of the Department of Treasury Coronavirus State and Local Fiscal Recovery Funds by the County to the Subrecipient. The County and Subrecipient shall sometimes be referred to collectively as the "Parties."

WHEREAS, on March 13, 2020, the President of the United States issued a Proclamation on Declaring a National Public Health Emergency as a result of the COVID-19 outbreak; and

WHEREAS, on March 11, 2021, the President of the United States signed into law the American Rescue Plan Act ("ARPA"); and

WHEREAS, to implement ARPA, the United States Department of the Treasury ("Treasury Department") published administrative regulations on May 17, 2021 (86 Fed. Reg. 26786) ("Interim Final Rule") and on January 27, 2022 (87 Fed. Reg. 4338) ("Final Rule"); and

WHEREAS, through ARPA, the Congress of the United States has appropriated funding, the Coronavirus State and Fiscal Recovery Funds ("SLFRF") to remain available through December 31, 2024, for making payments to metropolitan cities, nonentitlement units of local government, and counties to mitigate the fiscal effects stemming from the public health emergency with respect to COVID-19; and

WHEREAS, the Federal Award Identification Number (FAIN) is SLFRP0243, the federal awarding agency is U.S. Department of Treasury and the Assistance Listing Number is 21.027; and

WHEREAS, the County qualified as an eligible unit of local government and received SLFRF on 05/18/2021; and

WHEREAS, a unit of local government may award grants consistent with the criteria of ARPA and the Final Rule; and

WHEREAS, in accordance with ARPA (*see* 42 U.S.C §803(c)), the County shall only use SLFRF: (1) to respond to the public health emergency with respect to COVID-19 or its negative economic impacts; (2) to respond to workers performing essential work during the COVID-19 public health emergency by providing premium pay to eligible workers of the County, or by providing grants to eligible employers that have eligible workers who perform essential work; (3) for the provision of government services to the extent of the reduction in revenue of the County due to the COVID-19 public health emergency relative to revenues collected in the most full fiscal year of the County prior to the emergency; or (4) to make necessary investments in water, sewer, or broadband infrastructure; and

WHEREAS, ARPA provides that if the County fails to comply with 42 U.S.C §803(c), the County shall be required to repay to the Secretary of the Treasury Department an amount equal to the amount of funds used in violation of such subsection; and

WHEREAS, the purpose of this Agreement will be implemented in accordance with **Exhibit A: Program Terms**; and

WHEREAS, this Agreement is intended to distribute a portion of the County's SLFRF award from the County to the Subrecipient to benefit the citizens of Kane County.

NOW, THEREFORE, the Parties mutually agree as follows:

I. TERMS & CONDITIONS

The purpose of this Agreement is to establish a legal relationship between the County and the Subrecipient to implement programming associated with the COVID-19 public health emergency. The following requirements are applicable to all activities undertaken pursuant to this agreement with the portion of the SLFRF that the County intends to distribute to the Subrecipient as grant payments.

A. Compliance with Applicable Requirements: This Agreement requires compliance with the laws and regulations of the State of Illinois and with all applicable State and local orders, laws, regulations, rules, policies, and certifications governing any activities undertaken during the performance of this Agreement. This Agreement also requires compliance with the Uniform Administrative Requirements, Cost Principles, and Audit Requirements, which are published in Title 2, Part 200 of the Code of Federal Regulations (2 CFR Part 200), and all applicable guidance issued by the Treasury Department and all other applicable Federal laws and regulations.

B. Hold Harmless: The Subrecipient shall hold harmless, release, and defend the County from any and all claims, actions, suits, charges and judgments whatsoever that arise out of the Subrecipient's performance or nonperformance of the services or subject matter called for in this Agreement. The Subrecipient agrees to hold the County harmless for any evaluation and/or advice which the County provided in its application and review process as to whether requested reimbursement(s) are/were permissible uses of the grant funds.

C. Indemnification: The Subrecipient shall indemnify the County, its officers, agents, employees, and the Federal awarding agency, from any claim, liability, loss, injury or damage arising out of, or in connection with, performance of this Agreement by the Subrecipient and/or its agents, employees or sub-contractors. It is the intent of the Parties to this Agreement to provide the broadest possible indemnification for the County. This indemnification shall include, but is not limited to, instances where the County relied upon the certification of the Subrecipient that such expenses which the Subrecipient sought to have reimbursed from the grant funds were eligible and met all requirements for reimbursement, but where the Office of the Inspector General, or any other Federal person, official, or agency that is charged with the auditing and review of expenditures of the grant funds determines that such expenses and/or reimbursement was not permitted under ARPA. In such instances, the Subrecipient agrees to indemnify, reimburse, and make whole the County for any funds which the government of the United States or its agencies seeks to, or does, recoup or

collect in any manner, through litigation, by withholding other Federal funds owed to the County, or otherwise. The Subrecipient further agrees to indemnify, reimburse, or make whole the County for any penalties associated with the Federal government seeking to recoup the expended SLFRF that the County disbursed to the Subrecipient, including interest, attorney's fees, or any penalty provided by law. The Subrecipient shall reimburse the County for all costs, attorneys' fees, expenses and liabilities incurred with respect to any litigation in which the Subrecipient is obligated to indemnify, defend and hold harmless the County under this Agreement. The Subrecipient shall also reimburse the County for all costs, expenses, and liabilities, including but not limited to, attorney's fees, and/or auditor/auditing fees, as a result of any challenge to the eligibility of the Subrecipient's use of the grant payments by the Federal government. If the County determines that the Subrecipient has used the grant payments inconsistent with the objectives of the Subrecipient's project, inconsistent with the provisions of ARPA and the Final Rule, or inappropriately, or if the Subrecipient has not spent the total amount of grant funds by the end of the period of performance, the Subrecipient shall repay the amount identified by the County to: County of Kane.

D. Misrepresentations & Noncompliance: The Subrecipient hereby asserts, certifies and reaffirms that all representations and other information contained in the Subrecipients documentation, any subsequent requests for reimbursement, or any agreed-upon budget modifications are true, correct and complete, and to the best of the Subrecipient's knowledge. The Subrecipient acknowledges that all such representations and information have been relied on by the County to provide the grant funds under this Agreement. The Subrecipient shall promptly notify the County, in writing, of the occurrence of any event or any material change in circumstances which would make any of the Subrecipient representation(s) or information untrue or incorrect or otherwise impair the Subrecipient's ability to fulfill the Subrecipient's obligations under this Agreement.

E. Workers' Compensation: The Subrecipient shall provide Workers' Compensation Insurance coverage commensurate with statutory requirements for all of its employees involved in the performance of this Agreement.

F. Insurance: The Subrecipient shall carry sufficient insurance coverage to protect any grant funds provided to the Subrecipient under this Agreement from loss due to theft, fraud and/or undue physical damage. The Subrecipient's insurance coverage shall be adequate to satisfy the indemnification provisions set forth in this Agreement. Upon County request, the Subrecipient shall provide a Certificate of Insurance satisfactory to the requirement of the County. If the Subrecipient is self-insured, then the Subrecipient shall maintain excess coverage over and above its self-insured retention limits.

G. Amendments: This Agreement may be amended at any time only by a written instrument signed by both Parties. Such amendments shall not invalidate this Agreement, nor relieve or release either Party from its obligations under this

Agreement. The County may, in its discretion, amend this Agreement to conform with Federal, State or local governmental guidelines, policies and available funding amounts. If such amendments result in a change in the funding, the scope of services, or schedule of the activities to be undertaken as part of this Agreement, such modifications will be incorporated only by written amendment signed by both Parties. The Parties otherwise contemplate that the terms of this Agreement shall incorporate any subsequent amendments to ARPA or any regulations promulgated by the Treasury Department or other Federal agency, without need for further written amendment to this Agreement. The Subrecipient agrees to adhere to any amendments to ARPA or any related Federal laws or regulations.

H. Suspension or Termination: The County may suspend or terminate this Agreement upon written notice if the Subrecipient materially fails to comply with any terms of this Agreement, which include, but are not limited to, the following:

- Failure to comply with any of the rules, regulations or provisions referred to herein, or any such State and Federal statutes, regulations, executive orders, and Federal awarding agency guidelines, policies or directives as may become applicable at any time;
- Failure, for any reason, of the Subrecipient to fulfill in a timely and proper manner its obligations under this Agreement;
- Ineffective or improper use of grant funds provided to the Subrecipient under this Agreement; or
- Submission by the Subrecipient to the County reports that are incorrect or incomplete in any material respect.

If this Agreement is terminated, in whole or in part, the Parties shall comply with all close-out and post-termination requirements of this agreement.

I. Program Fraud & False or Fraudulent Statements or Related Acts: The Subrecipient must comply with 31 U.S.C. Chapter 38, Administrative Remedies for False Claims and Statements, which shall apply to the activities and actions of the Subrecipient pertaining to any matter resulting from a contract.

J. Debarment / Suspension and Voluntary Exclusion:

- Non-Federal entities and contractors are subject to the debarment and suspension regulations implementing Executive Order 12549, Debarment and Suspension (1986) and Executive Order 12689, Debarment and Suspension (1989) at 2 CFR Part 180 and the Department of Homeland Security's regulations at 2 CFR Part 3000 (Nonprocurement Debarment and Suspension).
- These regulations restrict awards, subawards, and contracts with certain parties that are debarred, suspended, or otherwise excluded from or ineligible for participation in Federal assistance programs and activities. A contract must not be issued to parties listed in the Systems of Award Management ("SAM") Exclusions. SAM Exclusions is the list maintained by the General Services Administration that contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under

statutory or regulatory authority other than Executive Order 12549. SAM exclusions can be accessed at www.sam.gov.

K. Governing Law and Venue: This Agreement shall be interpreted under, and governed by, the laws of the State of Illinois, without regard to conflicts of laws principles. Any claim, suit, action, or proceeding brought in connection with this Agreement shall be in the Circuit Court of Kane County and each Party hereby irrevocably consents to the personal and subject matter jurisdiction of such court and waives any claim that such court does not constitute a convenient and appropriate venue for such claims, suits, actions, or proceedings.

L. Conflict of Interest: The Subrecipient shall maintain written standards of conduct covering conflicts of interest and governing the actions of its employees engaged in the selection, award and administration of contracts. No employee, officer, or agent may participate in the selection, award, or administration of a contract supported by a Federal award if he or she has a real or apparent conflict of interest. Such a conflict of interest would arise when the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to employ any of the parties indicated herein, has a financial or other interest in or a tangible personal benefit from a firm considered for a contract.

M. Term: This Agreement shall be effective on December 1, 2023 and shall expire on September 30, 2026, unless terminated pursuant to this Agreement. Any grant funds that are not expended by the Subrecipient at the end of the period of performance for this Agreement shall be returned to the County within 30 (thirty) days. The County is not obligated to provide any of the County's SLFRF for any invoices made or submitted beyond the Budget Period.

N. Eligible Expenses: The Subrecipient shall spend funds on allowable costs, as described below. The Subrecipient shall spend funds in accordance with 2 CFR Part 200, ARPA, the Final Rule, and current and future guidance issued by the Treasury Department for the use of SLFRF. For the purposes of this agreement, the Subrecipient is authorized to spend the grant funds only for the purposes set forth in **Exhibit A,** which is incorporated herein by reference. **Exhibit A** contains a description of the components of the Subrecipient's program and the eligible uses of grant funds. The Subrecipient agrees that the sole and exclusive decision as to whether or not the Subrecipient's use of the grant funds is approved lies within the discretion of the County. The Subrecipient acknowledges and agrees that the County may deny the use of grant funds which, in the discretion of the County, is not a permitted use of SLFRF under APRA, the Final Rule, and any current and future guidance issued by the Treasury Department. The County's approval of this agreement does not guarantee that the Subrecipient's use of the grant funds will ultimately be approved by the County, the Treasury Department, or the Office of the Inspector General. Any portion of the award that is not used for the purposes set forth in **Exhibit A** shall be repaid to the County.

DRAFT

O. Payments: The sole source of grant payments under this Agreement shall be from the County's SLFRF. The County shall not be obligated to fund the Subrecipient from any other source. The County shall not be obligated to provide any grant funds in excess of the Award Amount under this Agreement. The Subrecipient will submit financial reports to support the payment schedule per the terms in **Exhibit A**. The Subrecipient shall not use grant funds for costs reimbursed or to be covered by other grants, insurance, State or Federal sources, including but not limited to CARES Act programs, FEMA, and any other source of financial recovery from COVID-19.

P. Record Retention: The Subrecipient shall maintain all records and supporting documents, and all records relevant to this Agreement for five (5) years after all SLFRF have been expended or returned to the Treasury Department by the County. The Subrecipient agrees to cooperate with the County and will ensure that it maintains such records to allow the County to comply with any and all recordkeeping requirements under Federal or State law, or pursuant to any court order. If any litigation, claim or audit is started before the expiration of this retention period, the records must be retained until all litigation, claims or audit findings involving the records have been resolved and final action taken. The Subrecipient is responsible for ensuring all contractors and vendors, if applicable, adhere to these records' retention requirements.

Q. Internal Controls: The Subrecipient must comply with 2 CFR 200.303 and establish and maintain effective internal control over the funds allocated under this Agreement. When requested by the County, the Subrecipient must provide reasonable assurance that the Subrecipient is managing the award in compliance with Federal statutes, regulations, and the terms and conditions of the County's SLFRF award.

R. Specific Conditions: The Subrecipient will comply with any and all specific conditions established by the County, in compliance with 2 CFR 200.208, which are set forth in Exhibit B. Exhibit B is incorporated herein by reference.

S. Monitoring: The County has the right to conduct monitoring consistent with 2 CFR Part 200, including but not limited to 2 CFR 200.332. The Subrecipient shall participate in monitoring activities at the request of the County. The County may take any action described in 2 CFR 200.339 in order to remedy instances of non-compliance by the Subrecipient with the Agreement terms.

T. Reporting Procedures: Per Exhibit A, the Subrecipient agrees to submit the forms, certifications, and documentation as may be required by the County which document any expense for which Subrecipient has used the grant funds under this Agreement. The County may request ad-hoc reports and supporting documentation in addition to a reimbursement request. The County may also request that the Subrecipient comply with audit requests made by the Treasury Department. Such reporting and requests may include documentation of invoices, submission of payroll logs, and proof of contracts. to substantiate eligible expenses. Failure to submit proper documentation verifying eligible expenses may result in termination of this agreement and recoupment of

awarded funds from the Subrecipient.

U. **FOIA:** The Subrecipient acknowledges that the County is a public body and agrees to participate with the County in responding to any requests for information that the County receives related to the SLFRF funds pursuant to the Freedom of Information Act (5 ILCS 140/1 *et seq*. (West 2022)). The Subrecipient shall provide any documents requested by the County in a timely fashion to allow the County to comply with the requirements of the Freedom of Information Act.

V. **Notices:** Any and all notices, which may be required hereunder by any Party to the other Party, shall be executed by either personal delivery in writing or by mail, registered and certified, postage pre-paid with a return receipt requested. The Subrecipient agrees to keep the County informed of any change in business and/or mailing addresses, as well as telephone, facsimile, email, or any other relevant means of contact and communication. Mailed notices must be addressed to the Parties at the address below:

County: Kane County American Rescue Plan Program Manager
Kane County Government Center
719 S. Batavia Avenue, Building A
Geneva Illinois, 60134

Subrecipient: [Enter Subrecipient Contact Information]

II. SEVERABILITY

If any provision of this Agreement is held invalid, the remainder of the Agreement shall not be affected thereby and all other parts of this Agreement shall nevertheless be in full force and effect.

III. WAIVER

The County's failure to act with respect to a breach by the Subrecipient does not waive its right to act with respect to subsequent or similar breaches. The failure of the County to exercise or enforce any right or provision shall not constitute a waiver of such right or provision.

IV. CERTIFICATION

The Subrecipient certifies the funds awarded pursuant to this Agreement shall be used only for the purposes described in **Exhibit A**. The Subrecipient acknowledges that this Agreement is made solely upon this certification and that any false statements, misrepresentations, or material omissions shall be the basis for immediate termination of this Agreement and repayment of all SLFRF distributed under this Agreement. The Subrecipient understands that the grant funds under this Agreement are supported by the Treasury Department Coronavirus Local and Fiscal Recovery Fund established by Section

9901 of ARPA and the Final Rule. The Subrecipient will comply with, and is subject to, all requirements for the use of SLFRF and all related guidance issued by the Treasury Department. Costs that have been or shall be submitted for reimbursement have not been reimbursed by other sources of funding.

V. SUBAWARD INFORMATION

The Federal Award associated with this Agreement is as follows:

Unique Identifier: [insert]

CFDA Number: 21.027

Assistance Listing Title: Coronavirus State and Local Fiscal Recovery Funds

Federal Awarding Agency: United States Department of Treasury

Federal Award Identification Number (FAIN): SLFRP0243

Federal Award Date to County: May 18, 2021

Award is for Research & Development: No

Period of Performance Start and End Date: December 1, 2023, through September 30, 2026.

Budget Period: The timeframe for spending is from January 1, 2024, through September 30, 2026.

Award Amount: Total obligation under this Agreement is $794,000.00

Contact for Program: Submit inquiries and questions to KaneARPA@co.kane.il.us

VI. ENTIRE AGREEMENT

This Agreement constitutes the entire agreement between the Parties for the use of funds received under this Agreement and it supersedes all prior or contemporaneous communications and proposals, whether electronic, oral, or written between the Parties relating to County's allocation of the grant funds to the Subrecipient. This Agreement is subject to availability of funds under ARPA. The County has no legal requirement to provide funding to any Subrecipient.

VII. SIGNATURE AUTHORITY

The following specific officers/officials, or their authorized designees, are required to sign this Agreement on behalf of the Subrecipient. Note: If this Agreement is signed by a designee, a duly authenticated delegation of authority evidencing the signer's authority to execute the Agreement for and on behalf of the Subrecipient must be attached to the Agreement for review by Kane County. The following signatory on behalf of the County has been authorized to execute this Agreement by resolution of the Kane County Board or authorized committee thereof.

IN WITNESS WHEREOF, the Parties hereto have caused their duly authorized representatives to execute this

Agreement on the dates hereafter set forth below.

Subrecipient:
Signed:
Its Duly Authorized Agent
Printed Name:
Title:
Date:

County of Kane
Signed:
Its Duly Authorized Agent
Printed Name:
Title:
Date:

DRAFT

Exhibit A: Program Terms

1. Program Description: Subrecipient represents Aurora, Batavia, Big Rock, Montgomery, North Aurora, and Sugar Grove.

2. Purpose of Award: The Treasury Department has recognized that the tourism, travel, and hospitality industries were severely negatively impacted by the COVID-19 pandemic. This program will provide assistance to the impacted tourism, travel, and hospitality industries in Kane County.

3. Eligible Costs: The Subrecipient shall only spend the grant funds to respond to the COVID-19 public health emergency and its negative economic impacts. Consistent with that eligible use, the Subrecipient is authorized to spend $794,000 (Seven Hundred Ninety-Four Thousand Dollars) to provide assistance to the impacted tourism, travel, and hospitality industries in Kane County. Eligible costs are considered:

(A) $488,801 (Four Hundred Eighty-Eight Thousand Eight Hundred and One Dollar) for digital advertisement marketing to promote the tourism, travel, and hospitality industries in Kane County;

(B) $255,000 (Two Hundred Fifty-Five Thousand Dollars) for print advertisement marketing to promote the tourism, travel, and hospitality industries in Kane County;

(C) $50,199 (Fifty Thousand One Hundred Ninety-Nine Dollars) for the Subrecipient's Datafy Software or similar software to assist in utilizing hard data to make educated decisions and track visitor spending on any spending associated with tourism, travel and hospitality.

4. Performance Measures: The County may request additional information from the Subrecipient as needed to measure performance under this Agreement.

5. Required Reporting

a. Programmatic reports: At the County's request, the Subrecipient shall submit programmatic reports to facilitate any requirements under the Uniform Administrative Requirements, Cost Principles, and Audit Requirements, which are published in Title 2, Part 200 of the Code of Federal Regulations (2 CFR Part 200), and any supporting documentation related to this Agreement and the Subrecipient's implementation of the Program.

b. Financial reports: At the County's request, the Subrecipient shall submit financial reports to facilitate any requirements under the Uniform Administrative Requirements, Cost Principles, and Audit Requirements, which are published in Title 2, Part 200 of the Code of Federal Regulations (2 CFR Part 200), and any supporting documentation related to this Agreement and the Subrecipient's implementation of the Program. Financial reports shall describe the expenditures related to this Agreement. The Subrecipient's accounting and financial management system shall be sufficient to permit the preparation of financial reports required in connection with this Agreement and the tracing of funds to a level of expenditure adequate to establish that such funds have been used pursuant to the terms of this agreement.

c. Closeout reports: The Subrecipient shall describe the status of the implementation of the Program and all related activities. The closeout report shall further include an accounting of all costs and expenses incurred by the Subrecipient and such other information as the County deems necessary to facilitate closeout of this Agreement and permit the County to meet all of its obligations and requirements under the same.

6. Payment

The Subrecipient will submit invoices for expenditures of eligible costs for the County to make direct payments. Invoices must be presented to the County each month on a day to be determined by the County. The Subrecipient will submit with each invoice, any forms or other documentation indicating the expenditures that are for tourism, travel and hospitality. The Subrecipient will supply a quarterly report detailing their activities and use of grant funds pursuant to this Agreement.

DRAFT

Exhibit B: Specific Conditions

1. Per 2 C.F.R. 200.208, the Subrecipient shall comply with the following Specific Conditions under this Agreement:

The County retains the right to impose specific conditions, as needed.

DRAFT

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1310

AUTHORIZING THE ARPA PROGRAM MANAGER TO APPROVE INVOICES FROM ERNST & YOUNG, LLP FOR PROFESSIONAL SERVICES RELATED TO THE ARPA PROGRAM

WHEREAS, the Congress of the United States has enacted the American Rescue Plan Act of 2021 ("ARPA") to provide economic relief to State, Local, and Tribal governments responding to economic and public health impacts of the COVID-19 public health emergency; and

WHEREAS, the County of Kane has received a total of $103,413,041 (One Hundred Three Million, Four Hundred Thirteen Thousand, Forty-One Dollars) from the United States Department of the Treasury, in State and Local Fiscal Recovery Funds ("SLFRF") pursuant to ARPA; and

WHEREAS, pursuant to ARPA and the administrative regulations adopted by the United States Department of the Treasury ("Final Rule"), the County of Kane shall use the SLFRF to defray costs associated with its response to the to the COVID-19 pandemic within the County, to address the economic fallout from the pandemic, and lay the foundation for a strong and equitable recovery; and

WHEREAS, pursuant to guidance published by the United States Department of the Treasury, the County's SLFRF may be used for administrative expenses involved in administering the County's ARPA program, which may include the costs of a consultant; and

WHEREAS, by Resolution 21-508, the County Board authorized the County Board Chairman to enter into a professional services agreement with Ernst & Young LLP for the services related to the planning, accounting, distribution, and reporting of the County's SLFRF in compliance and in accordance with applicable Federal and State laws in an amount not to exceed $1,000,000 (One Million Dollars) with all invoices to be approved by the County Board; and

WHEREAS, by Resolution 23-139, the Kane County Board authorized the County Board Chairman to execute an amendment to the professional services agreement with Ernst & Young LLP for services related to the planning, accounting, distribution, and reporting of the County's SLFRF, which increased the total not to exceed amount for the ARPA engagement by $900,000 (Nine Hundred Thousand Dollars); and

WHEREAS, in the interest of the administration of the ARPA program, the American Rescue Plan Program Manager shall be authorized to approve invoices for the Ernst & Young LLP professional services engagement related to the County's SLFR not to exceed the amount which the Kane County Board has previously authorized in the professional services agreement with Ernst & Young LLP for services related to the planning, accounting, distribution, and reporting of the County's SLFRF.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board hereby authorizes the American Rescue Plan Program Manager to approve invoices for the Ernst & Young LLP professional services engagement related to the County's SLFRF not to exceed the amount which the Kane County Board has previously authorized in the professional services agreement with Ernst & Young LLP for services related to the planning, accounting, distribution, and reporting of the County's SLFRF.

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing the ARPA Program Manager to Approve Invoices from Ernst & Young LLP for Professional Services Related to the ARPA Program

Committee Flow:
American Rescue Plan Committee, Executive Committee, County Board

Contact:
Jarett Sanchez, 630.444.1224

Budget Information:

Was this item budgeted? N/A	Appropriation Amount: $N/A
If not budgeted, explain funding source: N/A	

Summary:

This resolution authorizes the American Rescue Plan Program Manager to approve invoices for the Ernst & Young LLP professional services engagement related to the County's SLFRF not to exceed the amount which the Kane County Board has previously authorized in the professional services agreement with Ernst & Young LLP for services related to the planning, accounting, distribution, and reporting of the County's SLFRF.

STATE OF ILLINOIS

COUNTY OF KANE

RESOLUTION NO. 21 - 508

AUTHORIZING AGREEMENT FOR PROFESSIONAL SERVICES OF A CONSULTING FIRM TO ASSIST IN PLANNING, ACCOUNTING, DISTRIBUTION AND REPORTING OF AMERICAN RESCUE PLAN ACT FUNDS AND CORRESPONDING BUDGET ADJUSTMENT

WHEREAS, the Congress of the United States has enacted the American Rescue Plan Act ("ARPA") to provide economic relief to State, Local, and Tribal governments responding to the Coronavirus pandemic; and

WHEREAS, the County of Kane will receive a total of $103,413,041.00 (One Hundred Three Million, Four Hundred Thirteen Thousand, Forty-One Dollars) in ARPA funding from the United States Department of the Treasury, in State and Local Fiscal Recovery Funds ("SLFRF") pursuant to ARPA, and has received its first payment of funds, in the amount of $51,706,520.50 (Fifty-One Million, Seven Hundred Six Thousand, Five Hundred Twenty Dollars and Fifty Cents), and

WHEREAS, pursuant to ARPA the County shall use the SLFRF to defray costs associated with Coronavirus response within the County, to address the economic fallout from the pandemic, and lay the foundation for a strong and equitable recovery; and

WHEREAS, SLFRF may be used to cover administrative expenses, including a consultant, pursuant to ARPA; and

WHEREAS, the Kane County Board has established the American Rescue Plan Committee ("APRC"), as a resource for research, education, planning, and recommendations for the best allocation and uses of the County's SLFRF; and

WHEREAS, the work of the ARPC will require the professional services of a certified and licensed consulting firm, over and above current staff resources; and

WHEREAS, it is in the best interests of the County to engage the services of a consulting firm to assist in the planning, accounting, distribution, and reporting of SLFRF in compliance and in accordance with applicable Federal and State laws; and

WHEREAS, the County has issued a request for proposal (RFP 39-021) to identify a consulting firm to provide such professional services and assist in planning, accounting, distribution and reporting of SLFRF received pursuant to ARPA on behalf of Kane County; and

WHEREAS, the County received five (5) responses from consulting firms to RFP 39-021; and

WHEREAS, the Chair of the American Rescue Plan Committee, in consultation with the County Board Chairman, pursuant to resolution 21-381 conducted an interview and hiring process involving the five (5) consulting firms, and selected the most qualified firm, Ernst & Young LLP and

WHEREAS, the consulting firm Ernst & Young LLP wishes to enter into an agreement with the County for the purpose of assisting with the planning, accounting, distribution, and reporting of SLFRF in compliance and in accordance with applicable Federal and State laws for a period of up to 5 (five) years; and

WHEREAS, the terms and expected expenditure under the agreement are not final, but the expenditure will in no case exceed $1,000,000 (One Million dollars) with all invoices to be approved by the County Board, unless further authorization is given by the Kane County Board; and

WHEREAS, it is estimated that expenditures under the agreement may be $649,604 during the first six (6) months of the engagement; and

WHEREAS, the attached agreement ("Exhibit A") is a draft agreement, subject to minor modifications, as agreed by County representatives, and with a final draft to be prepared with approval by the State's Attorney's Office.

NOW, THEREFORE, BE IT RESOLVED, by the Kane County Board that the County Board Chairman is authorized to enter into a professional services agreement with Ernst & Young LLP for a period of up to 5 (five) years for the services related to the planning, accounting, distribution, and reporting of SLFRF in compliance and in accordance with applicable Federal and State laws in an amount not to exceed $1,000,000 (One Million Dollars) with all invoices to be approved by the County Board, and to execute all documents related to the engagement of said firm, in a form to be approved by the State's Attorney's Office.

NOW, THEREFORE, BE IT FURTHER RESOLVED, that $1,000,000 of the SLFRF funds received by the County shall be allocated to the funding of the professional services agreement with the selected consulting firm, pursuant to ARPA, and that the following budget adjustment be made to the Fiscal Year 2021 budget:

Account	Description	Amount
355.800.66871.50150	ARP Admin: Contractual -Ernst & Young	+$100,000
355.800.668.85000	ARP: Contingency	- $100,000

NOW, THEREFORE, BE IT FURTHER RESOLVED, that the following budget adjustment be made to the Fiscal Year 2022 budget:

Account	Description	Amount
355.800.66871.50150	ARP Admin: Contractual -Ernst & Young	+$549,604
355.800.000.39900	ARP: Cash on Hand	+ $549,604

Passed by the Kane County Board on November 9, 2021.

John A. Cunningham
Clerk, County Board
Kane County, Illinois

Corinne M. Pierog MA, MBA
Chairman, County Board
Kane County, Illinois

Vote:
[Unanimous]

21-11 Consult ARPA

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. 23-139

AUTHORIZING AN AMENDMENT TO THE AGREEMENT WITH THE KANE COUNTY AMERICAN RESCUE PLAN CONSULTANT AND CORRESPONDING USE OF ADDITIONAL STATE AND LOCAL FISCAL RECOVERY

WHEREAS, the Congress of the United States has enacted the American Rescue Plan Act of 2021 ("ARPA") to provide economic relief to State, Local, and Tribal governments responding to economic and public health impacts of the COVID-19 public health emergency; and

WHEREAS, the County of Kane has received a total of $103,413,041 (One Hundred Three Million, Four Hundred Thirteen Thousand, Forty-One Dollars) from the United States Department of the Treasury, in State and Local Fiscal Recovery Funds ("SLFRF") pursuant to ARPA; and

WHEREAS, pursuant to ARPA and the administrative regulations adopted by the United States Department of the Treasury ("Final Rule"), the County of Kane shall use the SLFRF to defray costs associated with its response to the to the COVID-19 pandemic within the County, to address the economic fallout from the pandemic, and lay the foundation for a strong and equitable recovery; and

WHEREAS, by Resolutions 21-313 and 22-288, the Kane County Board established the American Rescue Plan Committee ("ARPC") as a resource to research, study, plan, and make recommendations for the best allocation and uses of the County's SLFRF and any other Federal or State funds that respond to the COVID-19 public health emergency and its negative economic impacts; and

WHEREAS, SLFRF may be used for administrative expenses involved in administering the County's American Rescue Plan Program, and for administrative costs associated with County programs and activities responding to the COVID-19 public health emergency and its negative economic impacts; and

WHEREAS, by Resolution 21-508, the Kane County Board authorized the Kane County Board Chairman to execute a professional services agreement with Ernst & Young LLP for a period of up to 5 (five) years for the services related to the planning, accounting, distribution, and reporting of SLFRF in compliance and in accordance with applicable Federal and State laws in an amount not to exceed $1,000,000 (One Million Dollars) with all invoices to be approved by the County Board; and

WHEREAS, on November, 15, 2021, the Kane County Board Chairman executed a professional services agreement with Ernst & Young LLP ("Exhibit A"), with an expected term through December 2024, and with fees associated with the County's requested services not to exceed $1,000,000 (One Million Dollars) unless approved by the Kane County Board; and

WHEREAS, to ensure the best allocation of the County's SLFRF, the Kane County American Rescue Plan Program Manager has indicated that it will be necessary to allocate an additional $900,000 (Nine Hundred Thousand Dollars) to compensate Ernst & Young LLP through December 2024 for the services related to the planning, accounting, distribution, and reporting of SLFRF; and

WHEREAS, the ARPC recommends that the County Board allocates an additional $900,000 (Nine Hundred Thousand Dollars) of the County's SLFRF to compensate Ernst & Young LLP through December 2024 for the services related to the planning, accounting, distribution, and reporting of SLFRF; and

WHEREAS, the attached amendment ("Exhibit B") to the previously executed agreement is a draft version, subject to minor modifications, as agreed by County representatives, and with a final version to be prepared with approval by the State's Attorney's Office.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the County Board Chairman is authorized to execute an amendment to the professional services agreement with Ernst & Young LLP, for the services related to the planning, accounting, distribution, and reporting of SLFRF in compliance and in accordance with applicable Federal and State laws, which increases the total not to exceed amount for the ARPA engagement by $900,000 (Nine Hundred Thousand Dollars), with all invoices to be approved by the County Board.

NOW, THEREFORE, BE IT FURTHER RESOLVED BY the Kane County Board that $900,000 (Nine Hundred Thousand Dollars) of the County's SLFRF shall be allocated to the funding of the professional services agreement with Ernst & Young LLP for the services related to the planning, accounting, distribution, and reporting of SLFRF, in accordance with ARPA, the Final Rule, and related guidance issued by the United States Department of the Treasury, and that the following budget adjustment be made to the Fiscal Year 2023 budget:

$360,000	355.800.66871.50150	Contractual Consulting Services
($360,000)	355.800.668.85000	Allowance for Budget Expense

Line Item: 355.800.66871.50150
Line Item Description: Contractual/Consulting
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? No
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available?
355.800.668.85000- Allowance for Budget Expense

Passed by the Kane County Board on April 11, 2023.

John A. Cunningham
Clerk, County Board
Kane County, Illinois

Corinne M. Pierog MA, MBA
Chairman, County Board
Kane County, Illinois

Vote:

passed

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1291

AUTHORIZING REORGANIZATION OF THE OFFICE OF COMMUNITY REINVESTMENT AND ASSOCIATED SALARY ADJUSTMENTS (100% GRANT FUNDED)

WHEREAS, the Office of Community Reinvestment (OCR) oversees a variety of community and workforce development initiatives which are funded by various state and federal sources; and

WHEREAS, the number and scale of said initiatives has expanded in recent years as has the amount of funding awarded to OCR; and

WHEREAS, it is necessary to revise OCR's organizational chart and make associated salary adjustments to reflect the staffing requirements necessary to properly implement said funding awards, and said organizational chart is attached as Exhibit A; and

WHEREAS, current staff salaries require adjustments to be competitive in the current job market; and

WHEREAS, each funding award includes the administrative funds necessary to cover OCR's staffing and operating expenses, 100% of the office's expenses are covered with said funds.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the organizational chart for the Office of Community Reinvestment (attached as Exhibit A) is approved, that the annual salary of Scott Berger, Director of the Office of Community Reinvestment, be increased to $137,000, effective October 16, 2023, and that said Director is authorized to make annualized adjustments to staff salaries in the total amount of $103,000.

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing the Reorganization of the Office of Community Reinvestment and Associated Salary Adjustments (100% Grant Funded)

Committee Flow:
Development Committee, Executive Committee, County Board

Contact:
Scott Berger, 630-208-5351

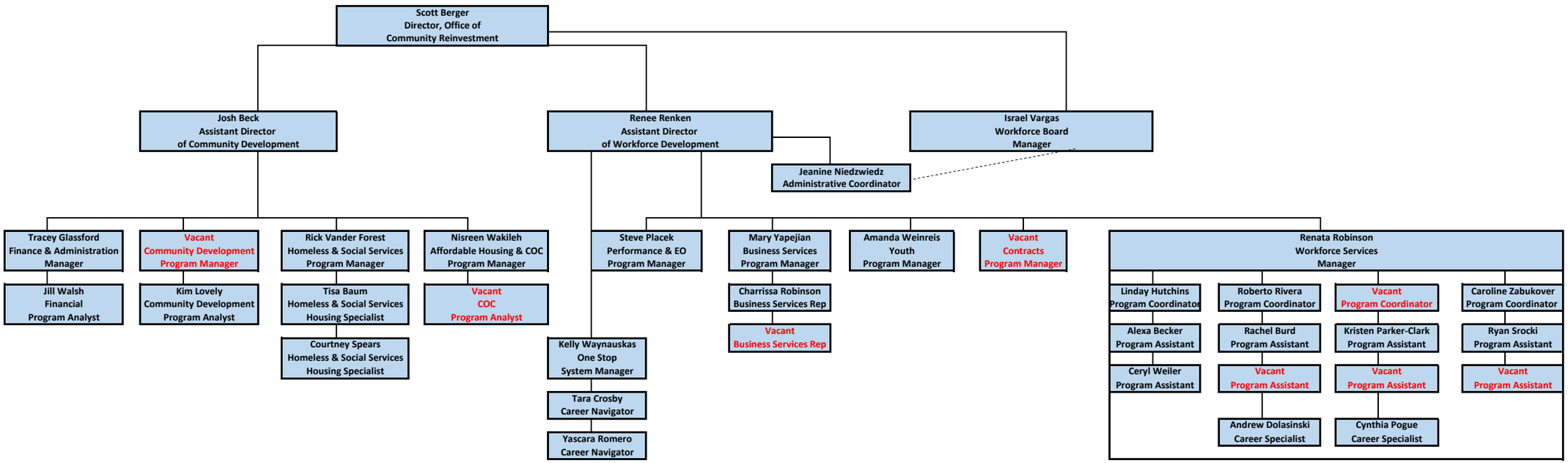
Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $115,000
If not budgeted, explain funding source: Various Grants	

Summary:

The attached resolution authorizes the reorganization of the Office of Community Reinvestment in order to reflect the staffing requirements necessary to properly implement the office's various community and workforce development initiatives. The resolution also authorizes salary adjustments for the Director and staff. 100% of the expenses will be covered with grant funds from various state and federal agencies and there is no need for FY 2023 budget adjustments.

EXHIBIT A
KANE COUNTY OFFICE OF COMMUNITY REINVESTMENT
PROPOSED ORGANIZATIONAL CHART 09/19/23



Created by OCR
08/16/23

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1312

APPROVING AUGUST 2023 CLAIMS PAID

WHEREAS, according to the Kane County Code Section 2-193 Expenditure of Funds for Settlement of Claims B. Monthly Reports of Claims: The county auditor shall file a monthly report of all claims paid in the prior month to the County Chair and all other members of the County Board. For each claim paid, the monthly report shall identify the claimant, the nature of the claim and the official or department, if any, against which the claim was made, the fund from which the payment was made, the amount of the payment and the date the check was issued; and

WHEREAS, according to the Kane County Financial Policies 8. Disbursement Policies b): A report shall be run monthly by the Auditor of all claims paid. Said report shall be available to all members of the County Board in the office of the County Board Chair. For each claim paid, the report shall identify the creditor, the department or official which purchased the product or service, the fund from which the payment was made, the amount of the payment and the date the check was issued; and

WHEREAS, the County Auditor has examined the attached Claims Paid Report for claims against Kane County totaling $15,973,694.98; and

WHEREAS, the County Auditor, in accordance with Ordinance No. 97-56, has recommended the payment of all claims on the attached Claims Paid Report; and

WHEREAS, the claims on the attached Claims Paid Report have been paid; and

WHEREAS, the County Board finds all claims on the Claims Paid Report to be due and Payable.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board that payment of the claims totaling Fifteen Million, Nine Hundred and seventy-three Thousand, Six Hundred ninety-four Dollars and ninety-eight Cents ($15,973,694.98) on the attached Claims Paid Report is acknowledged and approved.

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No.

Approving August 2023 Claims Paid

Committee Flow: Finance and Budget Committee, Executive Committee, County Board
Contact: Penny Wegman, 630.232.5918

According to the Kane County Code Section 2-193 Expenditure of Funds for Settlement of Claims B. Monthly Reports On Claims: The county auditor shall file a monthly report of all claims paid in the prior month to the chairman and all other members of the county board. For each claim paid, the monthly report shall identify the claimant, the nature of the claim and the official or department, if any, against which the claim was made, the fund from which the payment was made, the amount of the payment and the date the check was issued.

Similarly according to the Kane County Financial Policies 8. Disbursement Policies b): A report shall be run monthly by the Auditor of all claims paid. Said report shall be available to all members of the County Board in the office of the County Board Chair. For each claim paid, the report shall identify the creditor, the department or official which purchased the product or service, the fund from which the payment was made, the amount of the payment and the date the check was issued.

The accompanying Report of Claims Paid is submitted to comply with those requirements, and to document that the County Board has approved the payment of those claims.

CLAIMS PAID REPORT AUGUST 2023 FOR COUNTY BOARD INFORMATION

VENDOR	NATURE OF CLAIM	OFFICIAL/DEPARTMENT	FUND	DATE PAID	AMOUNT PAID
CV Solutions, LLC	Water Resources Permit Security Deposits		General Fund	8/28/2023	56,027.40
Fifth Third Bank	Payroll Taxes Payable		General Fund	8/28/2023	317.56
GovTempsUSA, LLC	Contractual/Consulting Services	County Board	General Fund	8/14/2023	8,782.20
GovTempsUSA, LLC	Contractual/Consulting Services	County Board	General Fund	8/14/2023	7,433.30
GovTempsUSA, LLC	Contractual/Consulting Services	County Board	General Fund	8/14/2023	9,184.00
GovTempsUSA, LLC	Contractual/Consulting Services	County Board	General Fund	8/14/2023	3,960.00
GovTempsUSA, LLC	Contractual/Consulting Services	County Board	General Fund	8/14/2023	4,534.60
GovTempsUSA, LLC	Contractual/Consulting Services	County Board	General Fund	8/14/2023	43.05
GovTempsUSA, LLC	Contractual/Consulting Services	County Board	General Fund	8/14/2023	8,810.90
GovTempsUSA, LLC	Contractual/Consulting Services	County Board	General Fund	8/14/2023	473.55
GovTempsUSA, LLC	Contractual/Consulting Services	County Board	General Fund	8/28/2023	9,514.05
Impact Networking, LLC	Repairs and Maint- Copiers	County Board	General Fund	8/14/2023	46.86
Metro West Council of Government (COG)	Conferences and Meetings - Board Members	County Board	General Fund	8/14/2023	180.00
Warehouse Direct, Inc.	Conferences and Meetings - Board Members	County Board	General Fund	8/14/2023	82.79
Metro West Council of Government (COG)	General Association Dues	County Board	General Fund	8/28/2023	250.00
Northwest Water Planning	General Association Dues	County Board	General Fund	8/28/2023	500.00
Warehouse Direct, Inc.	Office Supplies	County Board	General Fund	8/14/2023	31.10
Warehouse Direct, Inc.	Office Supplies	County Board	General Fund	8/28/2023	31.18
Warehouse Direct, Inc.	Office Supplies	County Board	General Fund	8/28/2023	125.64
Century Springs/Ove Water Services	Operating Supplies	County Board	General Fund	8/14/2023	42.69
Warehouse Direct, Inc.	Operating Supplies	County Board	General Fund	8/14/2023	11.25
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Finance	General Fund	8/28/2023	163.03
Century Springs/Ove Water Services	Office Supplies	Finance	General Fund	8/28/2023	36.23
Fifth Third Bank	Office Supplies	Finance	General Fund	8/28/2023	92.82
Warehouse Direct, Inc.	Office Supplies	Finance	General Fund	8/28/2023	61.58
Iron Mountain Information Management, LLC	Contractual/Consulting Services	Information Technologies	General Fund	8/14/2023	252.96
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	Information Technologies	General Fund	8/14/2023	756.00
Therm Flo Incorporated	Contractual/Consulting Services	Information Technologies	General Fund	8/14/2023	6,712.00
Therm Flo Incorporated	Contractual/Consulting Services	Information Technologies	General Fund	8/14/2023	7,333.00
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	Information Technologies	General Fund	8/28/2023	756.00
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	Information Technologies	General Fund	8/28/2023	453.60
Iron Mountain Information Management, LLC	Contractual/Consulting Services	Information Technologies	General Fund	8/28/2023	1,180.42
Defin.Net Solutions Inc	Contractual/Consulting Services	Information Technologies	General Fund	8/28/2023	9,000.00
Telcom Innovations Group LLC	Repairs and Maint- Comm Equip	Information Technologies	General Fund	8/28/2023	23,964.00
Eric C Gwillim	Conferences and Meetings	Information Technologies	General Fund	8/14/2023	369.96
John Zakosek	Conferences and Meetings	Information Technologies	General Fund	8/14/2023	369.96
Fifth Third Bank	Conferences and Meetings	Information Technologies	General Fund	8/28/2023	(1,495.00)
Fifth Third Bank	Conferences and Meetings	Information Technologies	General Fund	8/28/2023	360.54
Brooke Roff	Employee Mileage Expense	Information Technologies	General Fund	8/14/2023	43.03
Fifth Third Bank	Office Supplies	Information Technologies	General Fund	8/28/2023	64.21
Fifth Third Bank	Computer Related Supplies	Information Technologies	General Fund	8/28/2023	639.99
Fifth Third Bank	Computer Related Supplies	Information Technologies	General Fund	8/28/2023	6,293.27
Warehouse Direct, Inc.	Printing Supplies	Information Technologies	General Fund	8/14/2023	200.00
Gordon Flesch Company Inc	Printing Supplies	Information Technologies	General Fund	8/28/2023	4.63
Gordon Flesch Company Inc	Printing Supplies	Information Technologies	General Fund	8/28/2023	102.29
WEX BANK	Fuel- Vehicles	Information Technologies	General Fund	8/14/2023	328.69
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Building Management	General Fund	8/14/2023	566.44
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Building Management	General Fund	8/14/2023	390.00
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Building Management	General Fund	8/28/2023	364.00
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Building Management	General Fund	8/28/2023	333.62
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Building Management	General Fund	8/28/2023	223.66
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Building Management	General Fund	8/28/2023	2,747.89
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Building Management	General Fund	8/28/2023	2,082.89

Waste Management of Illinois - West	Disposal and Water Softener Srvs	Building Management	General Fund	8/28/2023	37.72
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Building Management	General Fund	8/28/2023	347.76
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/14/2023	9,517.25
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/14/2023	4,280.50
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/14/2023	12,295.26
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/14/2023	1,901.50
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/14/2023	11,193.50
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/14/2023	4,330.01
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/14/2023	1,724.25
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/14/2023	6,458.01
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/14/2023	13,446.05
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/14/2023	6,888.46
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/28/2023	7,878.19
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/28/2023	11,865.29
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/28/2023	4,077.92
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/28/2023	2,204.25
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Building Management	General Fund	8/28/2023	10,276.25
Malcor Roofing of Illinois, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	290.00
Malcor Roofing of Illinois, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	960.80
Wm F Meyer Co	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	361.40
Quincy Compressor, LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	395.00
Ace Hardware-Aurora/Batavia	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	31.99
Ace Hardware-Aurora/Batavia	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	31.87
Aero Building Solutions	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	1,822.00
Aero Building Solutions	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	2,708.00
Al Warren Oil Company, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	1,272.51
Chem-Wise Ecological Pest Management, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	564.00
Chicago Hollow Metal, Inc. (The Door Doctors)	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	1,925.00
F.E. Moran Inc. Mechanical Services	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	1,200.00
F.E. Moran Inc. Mechanical Services	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	5,850.00
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	33.64
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	0.90
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	13.49
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	16.99
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	28.78
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	13.12
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	4.49
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	40.08
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	10.79
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	166.85
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	33.41
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	31.35
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	36.41
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	83.28
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	13.84
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	242.04
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	64.95
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	598.00
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	54.90
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	13.79
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	45.07
Gehrke Technology Group, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	35.00
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	54.96
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	169.08
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	37.08

Sherwin Williams	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	63.86
Sherwin Williams	Repairs and Maint- Buildings	Building Management	General Fund	8/14/2023	110.42
Steiner Electric Co Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	51.13
Toshiba America Business Solutions Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	77.71
Urban Elevator Service LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	119.60
Urban Elevator Service LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	124.38
Urban Elevator Service LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	352.56
Urban Elevator Service LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	717.60
Urban Elevator Service LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	119.60
Urban Elevator Service LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	239.20
Urban Elevator Service LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	119.60
Urban Elevator Service LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	139.88
Urban Elevator Service LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	1,196.00
Warehouse Direct, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	1,003.56
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	129.89
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	88.42
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	41.50
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	88.36
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	1,004.03
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	79.88
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	138.70
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	38.84
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	288.51
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	609.11
Grainger Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	74.16
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	161.35
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	56.50
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	90.14
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	21.42
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	11.96
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	20.64
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	26.17
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	105.61
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	5.19
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	84.36
Menards, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	212.88
Midwest Environmental Consulting Services, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	4,980.00
Motorola Solutions Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	495.12
Motorola Solutions Inc	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	468.96
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	15.18
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	12.72
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	5.03
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	93.56
ILLCO INC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	(855.20)
ILLCO INC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	72.98
ILLCO INC	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	230.98
F.E. Moran Inc. Mechanical Services	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	1,645.00
Feece Oil Company	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	515.23
Fifth Third Bank	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	18,404.01
Fifth Third Bank	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	5,241.95
Excelsior Worldwide dba Restoration1 of Fox Valley	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	6,984.87
Al Warren Oil Company, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	347.29
Alarm Detection Systems, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	132.68
Ascher Brothers Co., Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	1,500.00
Century Springs/Ove Water Services	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	32.03

Affiliated Customer Service Incorporated	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	2,037.00
R.J. O'Neil, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	300.00
R.J. O'Neil, Inc.	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	450.00
McMaster-Carr Supply Co	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	485.40
McMaster-Carr Supply Co	Repairs and Maint- Buildings	Building Management	General Fund	8/28/2023	95.70
Ratliff Landscaping Inc	Repairs and Maint- Grounds	Building Management	General Fund	8/14/2023	1,425.00
Ratliff Landscaping Inc	Repairs and Maint- Grounds	Building Management	General Fund	8/14/2023	720.00
Ratliff Landscaping Inc	Repairs and Maint- Grounds	Building Management	General Fund	8/14/2023	11,467.12
Ratliff Landscaping Inc	Repairs and Maint- Grounds	Building Management	General Fund	8/14/2023	1,500.00
Ratliff Landscaping Inc	Repairs and Maint- Grounds	Building Management	General Fund	8/28/2023	13,300.00
Alert Fire Protection, Inc.	Repairs and Maint- Equipment	Building Management	General Fund	8/14/2023	1,782.48
McMaster-Carr Supply Co	Repairs and Maint- Equipment	Building Management	General Fund	8/14/2023	51.00
Gehrke Technology Group, Inc.	Repairs and Maint- Equipment	Building Management	General Fund	8/14/2023	2,049.00
ILLCO INC	Repairs and Maint- Equipment	Building Management	General Fund	8/28/2023	945.80
United Refrigeration, Inc.	Repairs and Maint- Equipment	Building Management	General Fund	8/28/2023	480.74
F.E. Moran Inc. Mechanical Services	Repairs and Maint- Equipment	Building Management	General Fund	8/28/2023	2,724.00
AIM Solutions, Inc.	Repairs and Maint- Equipment	Building Management	General Fund	8/28/2023	1,029.00
Air Comfort LLC	Repairs and Maint- Equipment	Building Management	General Fund	8/28/2023	1,240.00
1 Source Mechanical, Inc.	Equipment Lease	Building Management	General Fund	8/28/2023	13,030.90
Batavia Instant Print Inc	General Printing	Building Management	General Fund	8/14/2023	190.00
Batavia Instant Print Inc	General Printing	Building Management	General Fund	8/14/2023	273.55
Batavia Instant Print Inc	General Printing	Building Management	General Fund	8/14/2023	1,156.17
Cenveo Worldwide Limited	General Printing	Building Management	General Fund	8/14/2023	718.50
Cenveo Worldwide Limited	General Printing	Building Management	General Fund	8/14/2023	645.90
Cenveo Worldwide Limited	General Printing	Building Management	General Fund	8/14/2023	488.25
Century Springs/Ove Water Services	Operating Supplies	Building Management	General Fund	8/14/2023	40.01
Warehouse Direct, Inc.	Operating Supplies	Building Management	General Fund	8/14/2023	293.56
Fifth Third Bank	Operating Supplies	Building Management	General Fund	8/28/2023	192.65
City of Geneva	Utilities- Sewer	Building Management	General Fund	8/14/2023	153.17
City of Geneva	Utilities- Sewer	Building Management	General Fund	8/14/2023	130.76
City of Geneva	Utilities- Sewer	Building Management	General Fund	8/28/2023	172.39
City of Geneva	Utilities- Sewer	Building Management	General Fund	8/28/2023	60.69
City of Geneva	Utilities- Sewer	Building Management	General Fund	8/28/2023	17.46
City of Geneva	Utilities- Sewer	Building Management	General Fund	8/28/2023	11.39
City of Geneva	Utilities- Sewer	Building Management	General Fund	8/28/2023	111.01
City of Geneva	Utilities- Sewer	Building Management	General Fund	8/28/2023	14.96
City of St. Charles	Utilities- Sewer	Building Management	General Fund	8/28/2023	183.39
City of St. Charles	Utilities- Sewer	Building Management	General Fund	8/28/2023	131.22
City of St. Charles	Utilities- Sewer	Building Management	General Fund	8/28/2023	2,115.24
City of St. Charles	Utilities- Sewer	Building Management	General Fund	8/28/2023	7,896.21
City of St. Charles	Utilities- Sewer	Building Management	General Fund	8/28/2023	227.13
Fifth Third Bank	Utilities- Sewer	Building Management	General Fund	8/28/2023	696.00
City of Aurora	Utilities- Water	Building Management	General Fund	8/14/2023	236.75
City of Aurora	Utilities- Water	Building Management	General Fund	8/14/2023	593.45
City of Geneva	Utilities- Water	Building Management	General Fund	8/14/2023	275.62
City of Geneva	Utilities- Water	Building Management	General Fund	8/14/2023	211.54
City of Geneva	Utilities- Water	Building Management	General Fund	8/28/2023	281.76
City of Geneva	Utilities- Water	Building Management	General Fund	8/28/2023	105.88
City of Geneva	Utilities- Water	Building Management	General Fund	8/28/2023	28.93
City of Geneva	Utilities- Water	Building Management	General Fund	8/28/2023	17.86
City of Geneva	Utilities- Water	Building Management	General Fund	8/28/2023	178.22
City of Geneva	Utilities- Water	Building Management	General Fund	8/28/2023	28.46
City of St. Charles	Utilities- Water	Building Management	General Fund	8/28/2023	188.04
City of St. Charles	Utilities- Water	Building Management	General Fund	8/28/2023	121.30
City of St. Charles	Utilities- Water	Building Management	General Fund	8/28/2023	2,336.72

City of St. Charles	Utilities- Water	Building Management	General Fund	8/28/2023	5,928.12
City of St. Charles	Utilities- Water	Building Management	General Fund	8/28/2023	243.84
Veritiv Operating Company	Printing Supplies	Building Management	General Fund	8/14/2023	3,808.00
Veritiv Operating Company	Printing Supplies	Building Management	General Fund	8/14/2023	7,616.00
Warehouse Direct, Inc.	Cleaning Supplies	Building Management	General Fund	8/14/2023	879.30
Warehouse Direct, Inc.	Cleaning Supplies	Building Management	General Fund	8/14/2023	(153.64)
Warehouse Direct, Inc.	Cleaning Supplies	Building Management	General Fund	8/14/2023	6,584.00
Warehouse Direct, Inc.	Cleaning Supplies	Building Management	General Fund	8/14/2023	(930.00)
Warehouse Direct, Inc.	Cleaning Supplies	Building Management	General Fund	8/14/2023	1,078.80
Warehouse Direct, Inc.	Cleaning Supplies	Building Management	General Fund	8/28/2023	794.14
Warehouse Direct, Inc.	Cleaning Supplies	Building Management	General Fund	8/28/2023	71.29
Fifth Third Bank	Cleaning Supplies	Building Management	General Fund	8/28/2023	362.00
Red Wing Shoe Store	Uniform Supplies	Building Management	General Fund	8/28/2023	300.00
Nicor Gas	Utilities- Natural Gas	Building Management	General Fund	8/14/2023	56.44
Nicor Gas	Utilities- Natural Gas	Building Management	General Fund	8/14/2023	164.07
Nicor Gas	Utilities- Natural Gas	Building Management	General Fund	8/14/2023	69.14
Nicor Gas	Utilities- Natural Gas	Building Management	General Fund	8/14/2023	54.24
Nicor Gas	Utilities- Natural Gas	Building Management	General Fund	8/28/2023	53.12
Constellation NewEnergy-Gas Division, LLC	Utilities- Natural Gas	Building Management	General Fund	8/28/2023	9,271.64
City of Geneva	Utilities- Electric	Building Management	General Fund	8/14/2023	29.15
City of Geneva	Utilities- Electric	Building Management	General Fund	8/14/2023	13,692.45
ComEd	Utilities- Electric	Building Management	General Fund	8/14/2023	4,619.89
Constellation NewEnergy Inc.	Utilities- Electric	Building Management	General Fund	8/14/2023	512.38
Constellation NewEnergy Inc.	Utilities- Electric	Building Management	General Fund	8/14/2023	88,987.50
Constellation NewEnergy Inc.	Utilities- Electric	Building Management	General Fund	8/14/2023	2,240.80
City of Geneva	Utilities- Electric	Building Management	General Fund	8/28/2023	5,978.23
City of Geneva	Utilities- Electric	Building Management	General Fund	8/28/2023	649.97
City of Geneva	Utilities- Electric	Building Management	General Fund	8/28/2023	199.64
City of Geneva	Utilities- Electric	Building Management	General Fund	8/28/2023	159.43
City of Geneva	Utilities- Electric	Building Management	General Fund	8/28/2023	29.47
City of Geneva	Utilities- Electric	Building Management	General Fund	8/28/2023	14,509.96
City of St. Charles	Utilities- Electric	Building Management	General Fund	8/28/2023	62.25
City of St. Charles	Utilities- Electric	Building Management	General Fund	8/28/2023	10,527.46
Batavia Enterprises, Inc	Building Lease	Building Management	General Fund	8/14/2023	13,685.68
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Human Resource Management	General Fund	8/28/2023	170.22
Kane County Regional Office of Education	Miscellaneous Contractual Exp	Human Resource Management	General Fund	8/14/2023	520.00
Kane County Regional Office of Education	Miscellaneous Contractual Exp	Human Resource Management	General Fund	8/28/2023	600.00
Century Springs/Ove Water Services	Office Supplies	Human Resource Management	General Fund	8/28/2023	12.07
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	County Auditor	General Fund	8/14/2023	9.15
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	County Auditor	General Fund	8/28/2023	10.75
Fifth Third Bank	General Association Dues	County Auditor	General Fund	8/28/2023	50.00
Century Springs/Ove Water Services	Office Supplies	County Auditor	General Fund	8/14/2023	2.99
Century Springs/Ove Water Services	Office Supplies	County Auditor	General Fund	8/14/2023	10.58
Toshiba America Business Solutions Inc	General Printing	Treasurer/Collector	General Fund	8/28/2023	15.05
Carlos Mata	Employee Mileage Expense	Treasurer/Collector	General Fund	8/28/2023	31.44
Century Springs/Ove Water Services	Office Supplies	Treasurer/Collector	General Fund	8/28/2023	32.73
Secure Disbursement Systems Inc	Office Supplies	Treasurer/Collector	General Fund	8/28/2023	176.73
Warehouse Direct, Inc.	Office Supplies	Treasurer/Collector	General Fund	8/28/2023	69.60
Warehouse Direct, Inc.	Office Supplies	Treasurer/Collector	General Fund	8/28/2023	(51.26)
Warehouse Direct, Inc.	Office Supplies	Treasurer/Collector	General Fund	8/28/2023	416.24
Insight Public Sector Inc	Books and Subscriptions	Treasurer/Collector	General Fund	8/14/2023	61.37
Paddock Publications (Daily Herald)	Books and Subscriptions	Treasurer/Collector	General Fund	8/28/2023	950.20
Paddock Publications (Daily Herald)	Books and Subscriptions	Treasurer/Collector	General Fund	8/28/2023	43.70
Paddock Publications (Daily Herald)	Books and Subscriptions	Treasurer/Collector	General Fund	8/28/2023	25.30
Southern Computer Warehouse (SCW)	Printers	Treasurer/Collector	General Fund	8/28/2023	13,890.10

Southern Computer Warehouse (SCW)	Printers	Treasurer/Collector	General Fund	8/28/2023	3,940.77
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Supervisor of Assessments	General Fund	8/14/2023	36.18
Paddock Publications (Daily Herald)	Legal Printing	Supervisor of Assessments	General Fund	8/14/2023	23,802.40
Shaw Media	Legal Printing	Supervisor of Assessments	General Fund	8/14/2023	2,148.80
Noah Beckman	Employee Training	Supervisor of Assessments	General Fund	8/14/2023	50.00
Lennart Finstrom	Employee Training	Supervisor of Assessments	General Fund	8/14/2023	17.26
Stephen Fitzmaurice	Employee Training	Supervisor of Assessments	General Fund	8/14/2023	32.00
Donna L. King	Employee Training	Supervisor of Assessments	General Fund	8/14/2023	32.00
Angela Martin	Employee Training	Supervisor of Assessments	General Fund	8/14/2023	50.00
Angela Martin	Employee Training	Supervisor of Assessments	General Fund	8/14/2023	10.51
Illinois Property Assessment Institute	Employee Training	Supervisor of Assessments	General Fund	8/28/2023	380.00
MICHELLE R ABELL	Employee Training	Supervisor of Assessments	General Fund	8/28/2023	353.52
Mark D. Armstrong	Employee Training	Supervisor of Assessments	General Fund	8/28/2023	9.63
Lennart Finstrom	Employee Mileage Expense	Supervisor of Assessments	General Fund	8/14/2023	26.34
Stephen Fitzmaurice	Employee Mileage Expense	Supervisor of Assessments	General Fund	8/14/2023	36.16
Angela Martin	Employee Mileage Expense	Supervisor of Assessments	General Fund	8/14/2023	9.30
MICHELLE R ABELL	Employee Mileage Expense	Supervisor of Assessments	General Fund	8/28/2023	165.06
Mark D. Armstrong	Employee Mileage Expense	Supervisor of Assessments	General Fund	8/28/2023	6.22
Mark D. Armstrong	Employee Mileage Expense	Supervisor of Assessments	General Fund	8/28/2023	28.17
C.A.O.A. County Assessment Officers Assn	General Association Dues	Supervisor of Assessments	General Fund	8/14/2023	450.00
Century Springs/Ove Water Services	Office Supplies	Supervisor of Assessments	General Fund	8/14/2023	2.99
Century Springs/Ove Water Services	Office Supplies	Supervisor of Assessments	General Fund	8/14/2023	23.45
The Tree House Inc	Office Supplies	Supervisor of Assessments	General Fund	8/14/2023	1,120.50
Warehouse Direct, Inc.	Office Supplies	Supervisor of Assessments	General Fund	8/14/2023	638.86
Warehouse Direct, Inc.	Office Supplies	Supervisor of Assessments	General Fund	8/14/2023	59.68
4Imprint, Inc.	Office Supplies	Supervisor of Assessments	General Fund	8/28/2023	621.08
State of IL Secretary of State	Notary Services	County Clerk	General Fund	8/28/2023	15.00
Zahida Fakroddin	Employee Mileage Expense	County Clerk	General Fund	8/14/2023	74.67
IL Assn of County Clerks & Recorders IACCR	General Association Dues	County Clerk	General Fund	8/14/2023	850.00
Warehouse Direct, Inc.	Office Supplies	County Clerk	General Fund	8/28/2023	14.96
Warehouse Direct, Inc.	Operating Supplies	County Clerk	General Fund	8/14/2023	724.50
Warehouse Direct, Inc.	Operating Supplies	County Clerk	General Fund	8/14/2023	498.90
Warehouse Direct, Inc.	Operating Supplies	County Clerk	General Fund	8/28/2023	765.15
Warehouse Direct, Inc.	Computer Related Supplies	County Clerk	General Fund	8/14/2023	467.51
Fifth Third Bank	Computer Related Supplies	County Clerk	General Fund	8/28/2023	384.30
Fifth Third Bank	Books and Subscriptions	County Clerk	General Fund	8/28/2023	34.00
DFM Associates	Software Licensing Cost	County Clerk	General Fund	8/14/2023	10,780.00
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	County Clerk	General Fund	8/14/2023	24.36
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	County Clerk	General Fund	8/28/2023	76.09
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	County Clerk	General Fund	8/28/2023	32.17
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	County Clerk	General Fund	8/28/2023	17.78
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	County Clerk	General Fund	8/28/2023	245.61
Dugans Service Inc	Repairs and Maint- Vehicles	County Clerk	General Fund	8/28/2023	60.00
Century Springs/Ove Water Services	Operating Supplies	County Clerk	General Fund	8/14/2023	77.84
Verizon Wireless	Operating Supplies	County Clerk	General Fund	8/14/2023	58.40
Uline	Operating Supplies	County Clerk	General Fund	8/28/2023	718.90
DAVID C KING	Employee Mileage Expense	Recorder	General Fund	8/14/2023	37.01
IL Assn of County Clerks & Recorders IACCR	General Association Dues	Recorder	General Fund	8/14/2023	850.00
Century Springs/Ove Water Services	Office Supplies	Recorder	General Fund	8/14/2023	31.23
Marberry Cleaners & Launderers	Uniform Allowance	Judiciary and Courts	General Fund	8/14/2023	6.60
Kane County Juror Payable Clearing	Jurors- Circuit Court	Judiciary and Courts	General Fund	8/7/2023	336.24
Kane County Juror Payable Clearing	Jurors- Circuit Court	Judiciary and Courts	General Fund	8/7/2023	1,092.25
Kane County Juror Payable Clearing	Jurors- Circuit Court	Judiciary and Courts	General Fund	8/10/2023	796.28
Kane County Juror Payable Clearing	Jurors- Circuit Court	Judiciary and Courts	General Fund	8/17/2023	412.55
Kane County Juror Payable Clearing	Jurors- Circuit Court	Judiciary and Courts	General Fund	8/17/2023	862.21

Kane County Juror Payable Clearing	Jurors- Circuit Court	Judiciary and Courts	General Fund	8/25/2023	3,496.09
Kane County Juror Payable Clearing	Jurors- Circuit Court	Judiciary and Courts	General Fund	8/31/2023	836.84
4W Eats dba Papa Saverio's	Jurors' Expense	Judiciary and Courts	General Fund	8/14/2023	166.01
Just In Time Coffee LLC	Jurors' Expense	Judiciary and Courts	General Fund	8/14/2023	6,125.00
Just In Time Coffee LLC	Jurors' Expense	Judiciary and Courts	General Fund	8/14/2023	3,478.00
Just In Time Coffee LLC	Jurors' Expense	Judiciary and Courts	General Fund	8/14/2023	1,652.00
Just In Time Coffee LLC	Jurors' Expense	Judiciary and Courts	General Fund	8/28/2023	525.00
Fifth Third Bank	Jurors' Expense	Judiciary and Courts	General Fund	8/28/2023	59.96
Kobald Reporting Inc	Per Diem Expense	Judiciary and Courts	General Fund	8/14/2023	308.00
MaryJo D'Avola	Per Diem Expense	Judiciary and Courts	General Fund	8/14/2023	16.00
Lynn M Dreymiller	Per Diem Expense	Judiciary and Courts	General Fund	8/14/2023	964.00
Brenda D Gregory	Per Diem Expense	Judiciary and Courts	General Fund	8/14/2023	24.00
Debra P Hogan	Per Diem Expense	Judiciary and Courts	General Fund	8/14/2023	100.00
Debra P Hogan	Per Diem Expense	Judiciary and Courts	General Fund	8/14/2023	424.00
Barbara A Johnston	Per Diem Expense	Judiciary and Courts	General Fund	8/14/2023	100.00
Jennifer L. Joyce	Per Diem Expense	Judiciary and Courts	General Fund	8/14/2023	44.00
Jennifer L. Joyce	Per Diem Expense	Judiciary and Courts	General Fund	8/28/2023	116.00
Jennifer L. Joyce	Per Diem Expense	Judiciary and Courts	General Fund	8/28/2023	196.00
Jennifer L. Joyce	Per Diem Expense	Judiciary and Courts	General Fund	8/28/2023	100.00
Kobald Reporting Inc	Per Diem Expense	Judiciary and Courts	General Fund	8/28/2023	100.00
Martina M. Miranda	Per Diem Expense	Judiciary and Courts	General Fund	8/28/2023	58.00
Meagan Carroll	Per Diem Expense	Judiciary and Courts	General Fund	8/28/2023	76.00
Ann Wohlmuth	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	258.12
Shirley A. Wehking	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	177.20
Shirley A. Wehking	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	177.20
Wellspring Interpreting Services LLC	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	1,618.95
Tatiana Okunskaya	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	140.00
Claudia Perez	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	521.81
Ruben Rodriguez	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	1,296.26
Ruben Rodriguez	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	511.33
Sara Pethokoukis	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	1,858.99
Fadia Tamer	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	2,476.99
Fadia Tamer	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	500.85
Daniel Velasco	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	1,335.23
Daniel Velasco	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	886.14
American Interpreting Services, Inc.	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	2,308.55
Bakhtavar Press	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	263.58
Ana M Bubalo	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	1,008.90
Ana M Bubalo	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	1,227.33
Maricela Cortez	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	3,000.42
Maricela Cortez	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	967.64
Maricela Cortez	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	1,935.28
Maricela Ibarra	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	361.88
Maricela Ibarra	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	837.02
Carina Julian	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	786.77
Carina Julian	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	515.26
Carina Julian	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	986.23
Rafael H. Berrios	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	618.50
Martha Gerald dba Power Vibes Inc.	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/14/2023	2,245.95
Martha Gerald dba Power Vibes Inc.	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	1,732.11
Martha Gerald dba Power Vibes Inc.	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	1,667.11
Mihai Bledea	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	160.00
Carina Julian	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	1,030.52
Carina Julian	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	986.23
Maricela Ibarra	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	723.76

Maricela Ibarra	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	723.76
Maricela Cortez	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	901.33
Bakhtavar Press	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	369.78
Bakhtavar Press	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	160.00
Bakhtavar Press	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	160.00
American Interpreting Services, Inc.	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	1,821.58
Anthony Bahena	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	521.81
Anthony Bahena	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	962.90
Daniel Velasco	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	1,327.24
Daniel Velasco	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	1,770.31
Fadia Tamer	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	2,461.27
Sara Pethokoukis	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	1,098.64
Ruben Rodriguez	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	1,441.48
Ruben Rodriguez	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	472.28
Ruben Rodriguez	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	2,469.38
Rachael E Sills	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	3,273.35
Claudia Perez	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	521.81
Claudia Perez	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	294.31
Tatiana Okunskaya	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	140.00
Tatiana Okunskaya	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	201.05
Wellspring Interpreting Services LLC	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	915.49
Wellspring Interpreting Services LLC	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	439.53
Wellspring Interpreting Services LLC	Contractual/Consulting Services	Judiciary and Courts	General Fund	8/28/2023	475.96
Elizabeth Berrones	Court Appointed Counsel	Judiciary and Courts	General Fund	8/14/2023	3,083.00
Marielisa Jackson	Court Appointed Counsel	Judiciary and Courts	General Fund	8/14/2023	3,434.00
James A Tabor ESQ	Court Appointed Counsel	Judiciary and Courts	General Fund	8/14/2023	3,434.00
James A Tabor ESQ	Court Appointed Counsel	Judiciary and Courts	General Fund	8/28/2023	140.00
James A Tabor ESQ	Court Appointed Counsel	Judiciary and Courts	General Fund	8/28/2023	3,434.00
Marielisa Jackson	Court Appointed Counsel	Judiciary and Courts	General Fund	8/28/2023	3,434.00
Rachel J. Hess	Court Appointed Counsel	Judiciary and Courts	General Fund	8/28/2023	6,815.65
Rachel J. Hess	Court Appointed Counsel	Judiciary and Courts	General Fund	8/28/2023	3,434.00
Elizabeth Donegan PsyD	Psychological/Psychiatric Srvs	Judiciary and Courts	General Fund	8/14/2023	750.00
Elizabeth Donegan PsyD	Psychological/Psychiatric Srvs	Judiciary and Courts	General Fund	8/14/2023	750.00
Fifth Third Bank	Judicial Technology Fine Expenses	Judiciary and Courts	General Fund	8/28/2023	57.99
De Lage Landen Financial Services, Inc.	Equipment Rental	Judiciary and Courts	General Fund	8/14/2023	125.00
Gordon Flesch Company Inc	Equipment Rental	Judiciary and Courts	General Fund	8/14/2023	71.78
Gordon Flesch Company Inc	Equipment Rental	Judiciary and Courts	General Fund	8/14/2023	17.93
Gordon Flesch Company Inc	Equipment Rental	Judiciary and Courts	General Fund	8/14/2023	71.90
Gordon Flesch Company Inc	Equipment Rental	Judiciary and Courts	General Fund	8/28/2023	4.61
Gordon Flesch Company Inc	Equipment Rental	Judiciary and Courts	General Fund	8/28/2023	397.34
Gordon Flesch Company Inc	Equipment Rental	Judiciary and Courts	General Fund	8/28/2023	6.28
Marco Technologies, LLC.	Equipment Rental	Judiciary and Courts	General Fund	8/28/2023	440.45
Toshiba Financial Services	Equipment Rental	Judiciary and Courts	General Fund	8/28/2023	250.32
Canon Solutions America Inc	Equipment Rental	Judiciary and Courts	General Fund	8/28/2023	90.12
Just In Time Coffee LLC	Conferences and Meetings	Judiciary and Courts	General Fund	8/14/2023	180.00
Just In Time Coffee LLC	Conferences and Meetings	Judiciary and Courts	General Fund	8/14/2023	275.00
Michael J. Noland	Conferences and Meetings	Judiciary and Courts	General Fund	8/14/2023	256.00
Fifth Third Bank	Conferences and Meetings	Judiciary and Courts	General Fund	8/28/2023	16.96
Karen M. Zajicek	Employee Mileage Expense	Judiciary and Courts	General Fund	8/14/2023	37.80
Fifth Third Bank	General Association Dues	Judiciary and Courts	General Fund	8/28/2023	140.00
Peloton Inc dba Frank's Employment	Miscellaneous Contractual Exp	Judiciary and Courts	General Fund	8/14/2023	787.50
Peloton Inc dba Frank's Employment	Miscellaneous Contractual Exp	Judiciary and Courts	General Fund	8/14/2023	630.00
Century Springs/Ove Water Services	Miscellaneous Contractual Exp	Judiciary and Courts	General Fund	8/14/2023	9.28
Century Springs/Ove Water Services	Miscellaneous Contractual Exp	Judiciary and Courts	General Fund	8/14/2023	89.49
Century Springs/Ove Water Services	Miscellaneous Contractual Exp	Judiciary and Courts	General Fund	8/14/2023	17.86

Century Springs/Ove Water Services	Miscellaneous Contractual Exp	Judiciary and Courts	General Fund	8/14/2023	17.86
Century Springs/Ove Water Services	Miscellaneous Contractual Exp	Judiciary and Courts	General Fund	8/14/2023	17.86
Century Springs/Ove Water Services	Miscellaneous Contractual Exp	Judiciary and Courts	General Fund	8/14/2023	2.99
Language Line Services	Miscellaneous Contractual Exp	Judiciary and Courts	General Fund	8/28/2023	69.45
Peloton Inc dba Frank's Employment	Miscellaneous Contractual Exp	Judiciary and Courts	General Fund	8/28/2023	945.00
Warehouse Direct, Inc.	Office Supplies	Judiciary and Courts	General Fund	8/14/2023	14.55
Warehouse Direct, Inc.	Office Supplies	Judiciary and Courts	General Fund	8/14/2023	67.23
Warehouse Direct, Inc.	Office Supplies	Judiciary and Courts	General Fund	8/14/2023	46.02
Warehouse Direct, Inc.	Office Supplies	Judiciary and Courts	General Fund	8/28/2023	418.16
Warehouse Direct, Inc.	Office Supplies	Judiciary and Courts	General Fund	8/28/2023	314.40
Warehouse Direct, Inc.	Office Supplies	Judiciary and Courts	General Fund	8/28/2023	49.09
Document Imaging Services LLC	Computer Related Supplies	Judiciary and Courts	General Fund	8/14/2023	843.00
Fifth Third Bank	Employee Recognition Supplies	Judiciary and Courts	General Fund	8/28/2023	108.00
Fifth Third Bank	Employee Recognition Supplies	Judiciary and Courts	General Fund	8/28/2023	369.27
Theresa E Barreiro	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	66.81
Century Springs/Ove Water Services	Office Supplies	Circuit Clerk	General Fund	8/14/2023	42.30
Century Springs/Ove Water Services	Office Supplies	Circuit Clerk	General Fund	8/14/2023	36.32
Image-Pro Services & Supplies Inc	Office Supplies	Circuit Clerk	General Fund	8/14/2023	410.89
Petty Cash-Clerk of the Circuit Court	Office Supplies	Circuit Clerk	General Fund	8/14/2023	23.25
Fifth Third Bank	Office Supplies	Circuit Clerk	General Fund	8/28/2023	42.73
Juan Sifuentes	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	26.20
Warehouse Direct, Inc.	Office Supplies	Circuit Clerk	General Fund	8/28/2023	570.38
Warehouse Direct, Inc.	Office Supplies	Circuit Clerk	General Fund	8/28/2023	42.20
Rhiannon Anderson	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	52.40
Curt Bommelman	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	62.23
Michele Bruens	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	39.30
Jason M. Crowley	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	12.12
Latimer Ferrel	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	32.75
Kristin Glisson	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	23.58
Deneen S. Hull	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	24.23
Jennifer Lauren Johnson	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	45.85
Michael John Kovach	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	34.06
Penny Lange	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	28.82
Malinda Patterson	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	17.68
Sonal M. Sikligar	Employee Mileage Expense	Circuit Clerk	General Fund	8/28/2023	11.79
Jennifer Zuttermeister	Employee Mileage Expense	Circuit Clerk	General Fund	8/28/2023	45.85
Megan Johnson	Employee Mileage Expense	Circuit Clerk	General Fund	8/28/2023	38.65
Canon Solutions America Inc	Office Supplies	Circuit Clerk	General Fund	8/28/2023	1,174.04
Fifth Third Bank	Office Supplies	Circuit Clerk	General Fund	8/28/2023	70.60
Warehouse Direct, Inc.	Office Supplies	Circuit Clerk	General Fund	8/28/2023	100.07
Carleen J. Bain	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	172.92
Marissa Brown	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	20.96
Alexandra J. Busch	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	142.13
Dana Cruz	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	44.54
Theodore James Farrell	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	20.30
Benjamin Adam Petschke	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	23.58
Johnathan M. Pickering	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	17.03
JOANNE HASSLER	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	2.62
Anahi Huerta-Santillan	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	3.93
MaryAnn Kabara	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	39.30
Shauna Kane	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	115.28
Kelly A. Lisner	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	161.78
Paige V. Summerhill	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	18.34
Jennifer Volintine	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	1.31
Colby Whitman	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	3.93

Colby Whitman	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	9.17
Margaret Wlodek	Employee Mileage Expense	Circuit Clerk	General Fund	8/14/2023	220.08
Shirley L. Moline	Employee Mileage Expense	Circuit Clerk	General Fund	8/28/2023	17.03
Kelsey Spriet	Employee Mileage Expense	Circuit Clerk	General Fund	8/28/2023	94.32
Christine Foss	Employee Mileage Expense	Circuit Clerk	General Fund	8/28/2023	62.88
Sterling Sean Garwood	Employee Mileage Expense	Circuit Clerk	General Fund	8/28/2023	26.20
Fifth Third Bank	Office Supplies	Circuit Clerk	General Fund	8/28/2023	70.60
Warehouse Direct, Inc.	Office Supplies	Circuit Clerk	General Fund	8/28/2023	100.08
Image-Pro Services & Supplies Inc	Office Supplies	Circuit Clerk	General Fund	8/14/2023	260.21
Image-Pro Services & Supplies Inc	Office Supplies	Circuit Clerk	General Fund	8/28/2023	832.32
Image-Pro Services & Supplies Inc	Office Supplies	Circuit Clerk	General Fund	8/28/2023	1,086.98
Warehouse Direct, Inc.	Office Supplies	Circuit Clerk	General Fund	8/28/2023	153.96
Warehouse Direct, Inc.	Office Supplies	Circuit Clerk	General Fund	8/28/2023	232.22
Fifth Third Bank	Office Supplies	Circuit Clerk	General Fund	8/28/2023	757.00
Statewide Publishing, LLC	Legal Services	Circuit Clerk	General Fund	8/28/2023	60.00
Statewide Publishing, LLC	Legal Services	Circuit Clerk	General Fund	8/28/2023	60.00
Fifth Third Bank	Conferences and Meetings	Circuit Clerk	General Fund	8/28/2023	350.00
American Stamp & Marking Products, Inc.	Office Supplies	Circuit Clerk	General Fund	8/28/2023	676.45
Fifth Third Bank	Office Supplies	Circuit Clerk	General Fund	8/28/2023	131.98
Fifth Third Bank	Office Supplies	Circuit Clerk	General Fund	8/28/2023	84.21
Lexipol LLC	Contractual/Consulting Services	State's Attorney	General Fund	8/14/2023	7,611.00
Lexipol LLC	Contractual/Consulting Services	State's Attorney	General Fund	8/14/2023	6,741.00
Be Sure Consulting Inc.	Contractual/Consulting Services	State's Attorney	General Fund	8/28/2023	5,000.00
[redacted]		State's Attorney	General Fund	8/14/2023	260.00
[redacted]		State's Attorney	General Fund	8/14/2023	1,209.01
[redacted]		State's Attorney	General Fund	8/28/2023	173.47
[redacted]		State's Attorney	General Fund	8/28/2023	13.75
[redacted]		State's Attorney	General Fund	8/28/2023	(378.01)
[redacted]		State's Attorney	General Fund	8/28/2023	88.00
Debra P Hogan	Court Reporter Costs	State's Attorney	General Fund	8/14/2023	1,204.00
Debra P Hogan	Court Reporter Costs	State's Attorney	General Fund	8/14/2023	28.00
Debra P Hogan	Court Reporter Costs	State's Attorney	General Fund	8/14/2023	53.00
Martina M. Miranda	Court Reporter Costs	State's Attorney	General Fund	8/14/2023	58.00
Mary A Trezzo	Court Reporter Costs	State's Attorney	General Fund	8/14/2023	976.00
Theresa (Terri) Wells	Court Reporter Costs	State's Attorney	General Fund	8/14/2023	284.00
Barbara A Johnston	Court Reporter Costs	State's Attorney	General Fund	8/28/2023	5.00
Barbara A Johnston	Court Reporter Costs	State's Attorney	General Fund	8/28/2023	144.00
Melissa K. Anderko	Court Reporter Costs	State's Attorney	General Fund	8/28/2023	928.00
Melissa K. Anderko	Court Reporter Costs	State's Attorney	General Fund	8/28/2023	152.00
Margaret (Peggy) R. Beddard	Court Reporter Costs	State's Attorney	General Fund	8/28/2023	764.00
Dana D. Bollman	Court Reporter Costs	State's Attorney	General Fund	8/28/2023	888.00
Dana D. Bollman	Court Reporter Costs	State's Attorney	General Fund	8/28/2023	48.00
Dana D. Bollman	Court Reporter Costs	State's Attorney	General Fund	8/28/2023	44.00
Chicago Office Technology Group (COTG)	Repairs and Maint- Copiers	State's Attorney	General Fund	8/14/2023	15.03
Gordon Flesch Company Inc	Repairs and Maint- Copiers	State's Attorney	General Fund	8/14/2023	0.59
Impact Networking, LLC	Repairs and Maint- Copiers	State's Attorney	General Fund	8/28/2023	1,363.98
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	State's Attorney	General Fund	8/28/2023	37.17
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	State's Attorney	General Fund	8/28/2023	10.96
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	State's Attorney	General Fund	8/28/2023	28.85
Jiffy Lube (Sound Billing LLC)	Repairs and Maint- Vehicles	State's Attorney	General Fund	8/14/2023	87.28
Jiffy Lube (Sound Billing LLC)	Repairs and Maint- Vehicles	State's Attorney	General Fund	8/14/2023	51.97
Fifth Third Bank	Repairs and Maint- Vehicles	State's Attorney	General Fund	8/28/2023	154.40
Heena K. Patel	Conferences and Meetings	State's Attorney	General Fund	8/14/2023	541.90
Michael Pettet	Conferences and Meetings	State's Attorney	General Fund	8/14/2023	1,274.06
Fifth Third Bank	Conferences and Meetings	State's Attorney	General Fund	8/28/2023	645.60

Fifth Third Bank	Employee Training	State's Attorney	General Fund	8/28/2023	1,191.12
Fifth Third Bank	Employee Training	State's Attorney	General Fund	8/28/2023	(182.90)
The Tree House Inc	Office Supplies	State's Attorney	General Fund	8/14/2023	1,709.50
Warehouse Direct, Inc.	Office Supplies	State's Attorney	General Fund	8/14/2023	989.02
Warehouse Direct, Inc.	Office Supplies	State's Attorney	General Fund	8/14/2023	40.16
Warehouse Direct, Inc.	Office Supplies	State's Attorney	General Fund	8/14/2023	59.42
Fifth Third Bank	Office Supplies	State's Attorney	General Fund	8/28/2023	1,036.26
Accurate Document Destruction Inc (GROOT)	Operating Supplies	State's Attorney	General Fund	8/14/2023	414.00
Century Springs/Ove Water Services	Operating Supplies	State's Attorney	General Fund	8/14/2023	133.58
Petty Cash-State's Attorney	Operating Supplies	State's Attorney	General Fund	8/14/2023	121.00
Angel White	Operating Supplies	State's Attorney	General Fund	8/28/2023	475.00
Fifth Third Bank	Operating Supplies	State's Attorney	General Fund	8/28/2023	406.13
Fifth Third Bank	Operating Supplies	State's Attorney	General Fund	8/28/2023	1,158.21
Thomson Reuters GRC Inc. (West Government)	Books and Subscriptions	State's Attorney	General Fund	8/14/2023	4,002.54
Thomson Reuters GRC Inc. (West Government)	Books and Subscriptions	State's Attorney	General Fund	8/28/2023	2,646.20
Thomson Reuters GRC Inc. (West Government)	Books and Subscriptions	State's Attorney	General Fund	8/28/2023	1,401.29
WEX BANK	Fuel- Vehicles	State's Attorney	General Fund	8/14/2023	1,032.85
Fifth Third Bank	Employee Training	State's Attorney	General Fund	8/28/2023	(83.70)
Samuel Baricovich	Employee Mileage Expense	State's Attorney	General Fund	8/14/2023	238.42
Century Springs/Ove Water Services	Operating Supplies	State's Attorney	General Fund	8/14/2023	2.99
Insight Public Sector Inc	Computer Hardware- Non Capital	State's Attorney	General Fund	8/14/2023	708.00
Insight Public Sector Inc	Computer Hardware- Non Capital	State's Attorney	General Fund	8/14/2023	3,382.00
Insight Public Sector Inc	Computer Hardware- Non Capital	State's Attorney	General Fund	8/28/2023	7,650.00
WEX BANK	Fuel- Vehicles	State's Attorney	General Fund	8/14/2023	70.71
Petty Cash-State's Attorney	Employee Training	State's Attorney	General Fund	8/14/2023	400.00
[redacted]		Public Defender	General Fund	8/14/2023	440.00
[redacted]		Public Defender	General Fund	8/14/2023	20.00
[redacted]		Public Defender	General Fund	8/14/2023	24.00
[redacted]		Public Defender	General Fund	8/14/2023	208.00
[redacted]		Public Defender	General Fund	8/14/2023	58.00
[redacted]		Public Defender	General Fund	8/14/2023	15.00
[redacted]		Public Defender	General Fund	8/28/2023	64.00
[redacted]		Public Defender	General Fund	8/28/2023	192.12
Fifth Third Bank	Repairs and Maint- Copiers	Public Defender	General Fund	8/28/2023	114.98
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Public Defender	General Fund	8/28/2023	33.48
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Public Defender	General Fund	8/28/2023	2.91
Juanita Archuleta	Conferences and Meetings	Public Defender	General Fund	8/14/2023	33.32
Michelle Tilmon	Conferences and Meetings	Public Defender	General Fund	8/14/2023	272.00
Fifth Third Bank	Employee Training	Public Defender	General Fund	8/28/2023	628.00
Fifth Third Bank	Employee Training	Public Defender	General Fund	8/28/2023	300.00
Britt Hawkins	Employee Training	Public Defender	General Fund	8/28/2023	45.86
Jacqueline Leder	Employee Training	Public Defender	General Fund	8/28/2023	69.00
Accurate Document Destruction Inc (GROOT)	Miscellaneous Contractual Exp	Public Defender	General Fund	8/14/2023	619.25
Verizon Wireless	Miscellaneous Contractual Exp	Public Defender	General Fund	8/14/2023	213.24
Fifth Third Bank	Miscellaneous Contractual Exp	Public Defender	General Fund	8/28/2023	7.31
Century Springs/Ove Water Services	Office Supplies	Public Defender	General Fund	8/14/2023	2.99
Century Springs/Ove Water Services	Office Supplies	Public Defender	General Fund	8/14/2023	39.31
Warehouse Direct, Inc.	Office Supplies	Public Defender	General Fund	8/14/2023	38.38
Fifth Third Bank	Office Supplies	Public Defender	General Fund	8/28/2023	9.19
Fifth Third Bank	Books and Subscriptions	Public Defender	General Fund	8/28/2023	15.99
Thomson Reuters GRC Inc. (West Government)	Books and Subscriptions	Public Defender	General Fund	8/28/2023	249.98
Thomson Reuters GRC Inc. (West Government)	Books and Subscriptions	Public Defender	General Fund	8/28/2023	4,557.75
Thomson Reuters GRC Inc. (West Government)	Books and Subscriptions	Public Defender	General Fund	8/28/2023	839.67
Motorola Solutions Inc	Contractual/Consulting Services	Sheriff	General Fund	8/28/2023	9,545.00
Motorola Solutions Inc	Contractual/Consulting Services	Sheriff	General Fund	8/28/2023	9,545.00

Physicians Immediate Care North Chicago, LLC	Medical/Dental/Hospital Services	Sheriff	General Fund	8/28/2023	1,808.00
Fifth Third Bank	Investigations	Sheriff	General Fund	8/28/2023	5.00
Fifth Third Bank	Investigations	Sheriff	General Fund	8/28/2023	500.98
Fifth Third Bank	Investigations	Sheriff	General Fund	8/28/2023	341.40
Fifth Third Bank	Extradition Costs	Sheriff	General Fund	8/28/2023	50.35
Fifth Third Bank	Extradition Costs	Sheriff	General Fund	8/28/2023	87.92
Fifth Third Bank	Extradition Costs	Sheriff	General Fund	8/28/2023	2,799.40
Fifth Third Bank	Extradition Costs	Sheriff	General Fund	8/28/2023	3,070.47
Petty Cash-Sheriff	Extradition Costs	Sheriff	General Fund	8/28/2023	128.00
Petty Cash-Sheriff	Extradition Costs	Sheriff	General Fund	8/28/2023	128.00
Petty Cash-Sheriff	Extradition Costs	Sheriff	General Fund	8/28/2023	128.00
Petty Cash-Sheriff	Extradition Costs	Sheriff	General Fund	8/28/2023	64.00
Petty Cash-Sheriff	Extradition Costs	Sheriff	General Fund	8/28/2023	64.00
Petty Cash-Sheriff	Extradition Costs	Sheriff	General Fund	8/28/2023	128.00
Petty Cash-Sheriff	Extradition Costs	Sheriff	General Fund	8/28/2023	128.00
Petty Cash-Sheriff	Extradition Costs	Sheriff	General Fund	8/28/2023	128.00
Petty Cash-Sheriff	Extradition Costs	Sheriff	General Fund	8/28/2023	128.00
Impact Networking, LLC	Repairs and Maint- Comm Equip	Sheriff	General Fund	8/28/2023	142.37
Impact Networking, LLC	Repairs and Maint- Comm Equip	Sheriff	General Fund	8/28/2023	48.40
Insight Public Sector Inc	Repairs and Maint- Comm Equip	Sheriff	General Fund	8/28/2023	19.00
Insight Public Sector Inc	Repairs and Maint- Comm Equip	Sheriff	General Fund	8/28/2023	10,132.12
Insight Public Sector Inc	Repairs and Maint- Comm Equip	Sheriff	General Fund	8/28/2023	1,496.04
Insight Public Sector Inc	Repairs and Maint- Comm Equip	Sheriff	General Fund	8/28/2023	1,436.42
Toshiba America Business Solutions Inc	Repairs and Maint- Equipment	Sheriff	General Fund	8/28/2023	33.35
Toshiba America Business Solutions Inc	Repairs and Maint- Equipment	Sheriff	General Fund	8/28/2023	19.64
Cintas Corporation	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	58.94
Cintas Corporation	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	58.94
Cintas Corporation	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	58.94
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	11.69
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	29.30
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	45.87
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	14.92
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	46.54
Via Carlita, LLC dba Hawk Ford of St. Charles	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	396.85
Via Carlita, LLC dba Hawk Ford of St. Charles	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	128.52
Via Carlita, LLC dba Hawk Ford of St. Charles	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	182.80
Via Carlita, LLC dba Hawk Ford of St. Charles	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	128.47
Via Carlita, LLC dba Hawk Ford of St. Charles	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	30.87
Via Carlita, LLC dba Hawk Ford of St. Charles	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	91.40
Bob Jass Chevrolet, Inc.	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	283.03
Bob Jass Chevrolet, Inc.	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	160.97
Bob Jass Chevrolet, Inc.	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	433.18
Bob Jass Chevrolet, Inc.	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	124.87
Bob Jass Chevrolet, Inc.	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	103.56
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	763.99
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	15.72
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	7.89
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	25.62
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	36.92
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	53.67
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	1,670.12
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	34.53
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	75.26
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	68.66
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	23.58

APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	39.59
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	167.88
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	(167.88)
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	7.90
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	21.77
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	110.33
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	136.64
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	34.76
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	22.39
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/14/2023	41.98
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	111.98
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	5.29
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	33.80
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	30.99
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	15.99
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	74.55
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	159.96
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	24.78
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	11.98
APC Stores, Inc (Bumper to Bumper)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	9.90
Battery Service Corporation	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	793.80
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	244.27
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	116.59
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	1,856.48
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	37.20
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	112.86
Elburn NAPA Inc (North Aurora)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	876.94
Fifth Third Bank	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	1,008.44
Fifth Third Bank	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	23.58
Bob Jass Chevrolet, Inc.	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	149.95
Bob Jass Chevrolet, Inc.	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	244.08
Chicago Parts and Sound, LLC	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	1,194.00
Via Carlita, LLC dba Hawk Ford of St. Charles	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	746.55
Via Carlita, LLC dba Hawk Ford of St. Charles	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	20.50
Via Carlita, LLC dba Hawk Ford of St. Charles	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	47.13
Havlicek Geneva Ace Hardware LLC	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	71.92
ISHTA (Illinois State Toll Highway Authority)	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	152.97
Pomps Tire Service Inc	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	5,929.90
Pomps Tire Service Inc	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	1,898.28
Cintas Corporation	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	58.94
Cintas Corporation	Repairs and Maint- Vehicles	Sheriff	General Fund	8/28/2023	58.94
Fifth Third Bank	Employee Training	Sheriff	General Fund	8/28/2023	1,650.00
Fifth Third Bank	Employee Training	Sheriff	General Fund	8/28/2023	6,028.72
Fifth Third Bank	Employee Training	Sheriff	General Fund	8/28/2023	272.80
North East Multi-Regional Training Inc	Employee Training	Sheriff	General Fund	8/28/2023	500.00
North East Multi-Regional Training Inc	Employee Training	Sheriff	General Fund	8/28/2023	255.00
Petty Cash-Sheriff	Employee Training	Sheriff	General Fund	8/28/2023	425.00
Petty Cash-Sheriff	Employee Training	Sheriff	General Fund	8/28/2023	568.20
Weldstar Company	Employee Training	Sheriff	General Fund	8/28/2023	19.20
Fifth Third Bank	Office Supplies	Sheriff	General Fund	8/28/2023	360.71
Fifth Third Bank	Office Supplies	Sheriff	General Fund	8/28/2023	21.88
Flock Group, Inc. dba Flock Safety	Operating Supplies	Sheriff	General Fund	8/14/2023	12,000.00
Fox Valley Park District	Operating Supplies	Sheriff	General Fund	8/14/2023	500.00
Illinois Law Enforcement Alarm System	Operating Supplies	Sheriff	General Fund	8/28/2023	360.00
Airgas North Central, Inc.	Operating Supplies	Sheriff	General Fund	8/28/2023	60.91

Chad's Towing & Recovery, Inc.	Operating Supplies	Sheriff	General Fund	8/28/2023	150.00
Fifth Third Bank	Operating Supplies	Sheriff	General Fund	8/28/2023	4,009.60
Fifth Third Bank	Operating Supplies	Sheriff	General Fund	8/28/2023	1,019.56
Fifth Third Bank	Operating Supplies	Sheriff	General Fund	8/28/2023	409.13
Fifth Third Bank	Operating Supplies	Sheriff	General Fund	8/28/2023	4,542.91
Fifth Third Bank	Operating Supplies	Sheriff	General Fund	8/28/2023	190.88
Fifth Third Bank	Operating Supplies	Sheriff	General Fund	8/28/2023	(137.59)
Fifth Third Bank	Operating Supplies	Sheriff	General Fund	8/28/2023	207.95
Pro-Tech Security Sales	S.W.A.T. Supplies	Sheriff	General Fund	8/28/2023	15,155.00
Fifth Third Bank	Uniform Supplies	Sheriff	General Fund	8/28/2023	86.13
J.G. Uniforms, Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	835.00
J.G. Uniforms, Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	835.00
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	1,538.21
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	527.46
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	734.73
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	43.31
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	722.47
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	219.67
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	276.87
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	193.99
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	136.62
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	62.71
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	8.99
Al Warren Oil Company, Inc.	Fuel- Vehicles	Sheriff	General Fund	8/28/2023	6,684.28
Al Warren Oil Company, Inc.	Fuel- Vehicles	Sheriff	General Fund	8/28/2023	0.49
Al Warren Oil Company, Inc.	Fuel- Vehicles	Sheriff	General Fund	8/28/2023	217.17
Al Warren Oil Company, Inc.	Fuel- Vehicles	Sheriff	General Fund	8/28/2023	7,317.59
WEX BANK	Fuel- Vehicles	Sheriff	General Fund	8/28/2023	30,528.32
Lighthouse Recovery, Inc.	Medical/Dental/Hospital Services	Sheriff	General Fund	8/14/2023	25,000.00
Stericycle, Inc.	Medical/Dental/Hospital Services	Sheriff	General Fund	8/14/2023	295.00
Wagner Investigative Polygraph Service	Medical/Dental/Hospital Services	Sheriff	General Fund	8/14/2023	100.00
COPS Testing Service Inc	Medical/Dental/Hospital Services	Sheriff	General Fund	8/28/2023	450.00
Accurate Document Destruction Inc (GROOT)	Disposal and Water Softener Srvs	Sheriff	General Fund	8/28/2023	1,242.00
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Sheriff	General Fund	8/28/2023	679.97
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Sheriff	General Fund	8/28/2023	626.75
Fifth Third Bank	Employee Training	Sheriff	General Fund	8/28/2023	550.00
Fifth Third Bank	Employee Training	Sheriff	General Fund	8/28/2023	1,350.00
Fifth Third Bank	Employee Training	Sheriff	General Fund	8/28/2023	3,705.00
Fifth Third Bank	Employee Training	Sheriff	General Fund	8/28/2023	1,509.24
North East Multi-Regional Training Inc	Employee Training	Sheriff	General Fund	8/28/2023	255.00
Cintas Corporation	Operating Supplies	Sheriff	General Fund	8/14/2023	87.98
Cintas Corporation	Operating Supplies	Sheriff	General Fund	8/28/2023	87.98
Cintas Corporation	Operating Supplies	Sheriff	General Fund	8/28/2023	74.90
Cintas Corporation	Operating Supplies	Sheriff	General Fund	8/28/2023	74.90
Cintas Corporation	Operating Supplies	Sheriff	General Fund	8/28/2023	74.90
Fifth Third Bank	Operating Supplies	Sheriff	General Fund	8/28/2023	298.00
Fifth Third Bank	Operating Supplies	Sheriff	General Fund	8/28/2023	364.00
Fifth Third Bank	Operating Supplies	Sheriff	General Fund	8/28/2023	183.17
Fifth Third Bank	Operating Supplies	Sheriff	General Fund	8/28/2023	76.00
OnTime Telecom, Inc. dba DialMyCalls	Operating Supplies	Sheriff	General Fund	8/28/2023	89.20
OnTime Telecom, Inc. dba DialMyCalls	Operating Supplies	Sheriff	General Fund	8/28/2023	151.60
Tek84 Inc.	Operating Supplies	Sheriff	General Fund	8/28/2023	8,995.00
Valdes LLC	Operating Supplies	Sheriff	General Fund	8/28/2023	999.25
Valdes LLC	Operating Supplies	Sheriff	General Fund	8/28/2023	999.25
Valdes LLC	Operating Supplies	Sheriff	General Fund	8/28/2023	999.25

Valdes LLC	Operating Supplies	Sheriff	General Fund	8/28/2023	999.25
Valley Lock Company Inc	Operating Supplies	Sheriff	General Fund	8/28/2023	99.60
Warehouse Direct, Inc.	Operating Supplies	Sheriff	General Fund	8/28/2023	281.37
Warehouse Direct, Inc.	Operating Supplies	Sheriff	General Fund	8/28/2023	281.37
Warehouse Direct, Inc.	Operating Supplies	Sheriff	General Fund	8/28/2023	281.37
Warehouse Direct, Inc.	Operating Supplies	Sheriff	General Fund	8/28/2023	281.00
Warehouse Direct, Inc.	Operating Supplies	Sheriff	General Fund	8/28/2023	281.37
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	53.33
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	411.01
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	660.62
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	345.72
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	438.82
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	113.29
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	34.92
Aramark Services, Inc.	Food	Sheriff	General Fund	8/14/2023	14,123.55
Century Springs/Ove Water Services	Food	Sheriff	General Fund	8/14/2023	40.01
Century Springs/Ove Water Services	Food	Sheriff	General Fund	8/14/2023	9.28
Century Springs/Ove Water Services	Food	Sheriff	General Fund	8/14/2023	103.66
Century Springs/Ove Water Services	Food	Sheriff	General Fund	8/14/2023	2.99
Century Springs/Ove Water Services	Food	Sheriff	General Fund	8/14/2023	61.11
Century Springs/Ove Water Services	Food	Sheriff	General Fund	8/14/2023	23.05
Porfirio Roman Ramirez	Food	Sheriff	General Fund	8/14/2023	2,800.00
Porfirio Roman Ramirez	Food	Sheriff	General Fund	8/28/2023	2,800.00
Securus Monitor. dba Satellite Tracking of People	Food	Sheriff	General Fund	8/28/2023	72.00
Securus Monitor. dba Satellite Tracking of People	Food	Sheriff	General Fund	8/28/2023	3,231.00
KS State Bank	Food	Sheriff	General Fund	8/28/2023	32,705.38
Petty Cash-Sheriff	Food	Sheriff	General Fund	8/28/2023	7,470.00
Aramark Services, Inc.	Food	Sheriff	General Fund	8/28/2023	30.00
Aramark Services, Inc.	Food	Sheriff	General Fund	8/28/2023	14,966.16
Aramark Services, Inc.	Food	Sheriff	General Fund	8/28/2023	14,416.20
Aramark Services, Inc.	Food	Sheriff	General Fund	8/28/2023	14,085.72
Aramark Services, Inc.	Food	Sheriff	General Fund	8/28/2023	14,671.70
BI, Inc.	Food	Sheriff	General Fund	8/28/2023	5,971.85
BI, Inc.	Food	Sheriff	General Fund	8/28/2023	(300.00)
BI, Inc.	Food	Sheriff	General Fund	8/28/2023	1,781.75
Aramark Services, Inc.	Public Health Commodities - Coronavirus	Sheriff	General Fund	8/14/2023	14.58
Aramark Services, Inc.	Public Health Commodities - Coronavirus	Sheriff	General Fund	8/28/2023	25.38
Aramark Services, Inc.	Public Health Commodities - Coronavirus	Sheriff	General Fund	8/28/2023	23.04
Aramark Services, Inc.	Public Health Commodities - Coronavirus	Sheriff	General Fund	8/28/2023	28.08
Aramark Services, Inc.	Public Health Commodities - Coronavirus	Sheriff	General Fund	8/28/2023	27.18
Petty Cash-Sheriff	Contractual/Consulting Services	Sheriff	General Fund	8/28/2023	1,975.00
Petty Cash-Sheriff	Contractual/Consulting Services	Sheriff	General Fund	8/28/2023	1,625.00
Petty Cash-Sheriff	Contractual/Consulting Services	Sheriff	General Fund	8/28/2023	1,350.00
Motorola Solutions Inc	Repairs and Maint- Comm Equip	Sheriff	General Fund	8/28/2023	990.24
Motorola Solutions Inc	Repairs and Maint- Comm Equip	Sheriff	General Fund	8/28/2023	1,099.52
Motorola Solutions Inc	Repairs and Maint- Comm Equip	Sheriff	General Fund	8/28/2023	64,828.48
Fifth Third Bank	Employee Training	Sheriff	General Fund	8/28/2023	1,255.00
Police Law Institute	Employee Training	Sheriff	General Fund	8/28/2023	660.00
Wagner Investigative Polygraph Service	Pre-Employ Drug Testing and Labs	Sheriff	General Fund	8/14/2023	100.00
Physicians Immediate Care North Chicago, LLC	Pre-Employ Drug Testing and Labs	Sheriff	General Fund	8/28/2023	1,765.00
COPS Testing Service Inc	Pre-Employment Physicals	Sheriff	General Fund	8/28/2023	450.00
Century Springs/Ove Water Services	Operating Supplies	Sheriff	General Fund	8/14/2023	29.43
Century Springs/Ove Water Services	Operating Supplies	Sheriff	General Fund	8/14/2023	2.99
Century Springs/Ove Water Services	Operating Supplies	Sheriff	General Fund	8/14/2023	13.57
Fifth Third Bank	Operating Supplies	Sheriff	General Fund	8/28/2023	2,200.00

J.G. Uniforms, Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	955.49
Ray O'Herron Co., Inc.	Uniform Supplies	Sheriff	General Fund	8/28/2023	212.31
PETER J BURGERT	Employee Mileage Expense	Merit Commission	General Fund	8/14/2023	209.60
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Court Services	General Fund	8/28/2023	141.31
Fifth Third Bank	Conferences and Meetings	Court Services	General Fund	8/28/2023	926.80
LaTanya Hill	Employee Training	Court Services	General Fund	8/14/2023	262.16
Fifth Third Bank	Employee Training	Court Services	General Fund	8/28/2023	81.11
Ruth E Gilles	Postage	Court Services	General Fund	8/28/2023	82.19
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Court Services	General Fund	8/14/2023	311.75
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Court Services	General Fund	8/28/2023	331.75
Impact Networking, LLC	Repairs and Maint- Copiers	Court Services	General Fund	8/14/2023	175.00
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Court Services	General Fund	8/28/2023	45.84
105 Grove LLC	Building Space Rental	Court Services	General Fund	8/14/2023	2,779.62
Brian Howes	Conferences and Meetings	Court Services	General Fund	8/14/2023	84.95
IL Probation & Court Services Association (IPCSA)	Conferences and Meetings	Court Services	General Fund	8/28/2023	750.00
Lindsey Liddicoatt	Conferences and Meetings	Court Services	General Fund	8/28/2023	112.00
Julie Cho-Valldejuli	Conferences and Meetings	Court Services	General Fund	8/28/2023	112.00
Fifth Third Bank	Conferences and Meetings	Court Services	General Fund	8/28/2023	4,117.60
Fifth Third Bank	Conferences and Meetings	Court Services	General Fund	8/28/2023	926.80
Century Springs/Ove Water Services	Miscellaneous Contractual Exp	Court Services	General Fund	8/14/2023	52.18
Century Springs/Ove Water Services	Miscellaneous Contractual Exp	Court Services	General Fund	8/14/2023	35.02
Fifth Third Bank	Miscellaneous Contractual Exp	Court Services	General Fund	8/28/2023	20.00
Warehouse Direct, Inc.	Office Supplies	Court Services	General Fund	8/14/2023	6.19
Warehouse Direct, Inc.	Office Supplies	Court Services	General Fund	8/28/2023	33.16
Warehouse Direct, Inc.	Office Supplies	Court Services	General Fund	8/28/2023	738.74
Warehouse Direct, Inc.	Office Supplies	Court Services	General Fund	8/28/2023	244.94
Warehouse Direct, Inc.	Office Supplies	Court Services	General Fund	8/28/2023	(240.62)
Streicher's, Inc.	Operating Supplies	Court Services	General Fund	8/14/2023	94.45
Fifth Third Bank	Operating Supplies	Court Services	General Fund	8/28/2023	698.98
Fifth Third Bank	Operating Supplies	Court Services	General Fund	8/28/2023	7.50
The Tree House Inc	Computer Related Supplies	Court Services	General Fund	8/28/2023	176.80
McKesson Medical Surgical	Medical Supplies and Drugs	Court Services	General Fund	8/14/2023	458.57
Warehouse Direct, Inc.	Equipment < $1000	Court Services	General Fund	8/28/2023	5,025.25
WEX BANK	Fuel- Vehicles	Court Services	General Fund	8/14/2023	851.01
Association for Individual Development (AID)	Psychological/Psychiatric Srvs	Court Services	General Fund	8/14/2023	1,836.67
Nancy Bagley	Psychological/Psychiatric Srvs	Court Services	General Fund	8/14/2023	500.00
Ecker Center for Mental Health	Psychological/Psychiatric Srvs	Court Services	General Fund	8/14/2023	2,500.00
Nancy Bagley	Lab Services	Court Services	General Fund	8/14/2023	0.00
Redwood Toxicology Inc.	Lab Services	Court Services	General Fund	8/28/2023	1,482.35
Jessica Newsome	Employee Training	Court Services	General Fund	8/28/2023	160.00
Jessica Newsome	Employee Training	Court Services	General Fund	8/28/2023	160.00
Julissa Gonzalez	Incentives	Court Services	General Fund	8/14/2023	10.99
Fifth Third Bank	Incentives	Court Services	General Fund	8/28/2023	320.00
Fifth Third Bank	Miscellaneous Supplies	Court Services	General Fund	8/28/2023	97.62
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Court Services	General Fund	8/14/2023	605.25
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Court Services	General Fund	8/28/2023	500.50
Waste Management of Illinois - West	Repairs and Maint- Buildings	Court Services	General Fund	8/28/2023	241.08
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Court Services	General Fund	8/28/2023	6.56
105 Grove LLC	Building Space Rental	Court Services	General Fund	8/14/2023	2,779.62
SC Auto Inc DBA Midas Auto Service	Repairs and Maint- Vehicles	Court Services	General Fund	8/28/2023	2,679.62
Century Springs/Ove Water Services	Miscellaneous Contractual Exp	Court Services	General Fund	8/14/2023	35.02
Warehouse Direct, Inc.	Office Supplies	Court Services	General Fund	8/28/2023	240.62
Fifth Third Bank	Operating Supplies	Court Services	General Fund	8/28/2023	7.50
Fifth Third Bank	Computer Related Supplies	Court Services	General Fund	8/28/2023	14.95
The Tree House Inc	Computer Related Supplies	Court Services	General Fund	8/28/2023	1,646.95

Warehouse Direct, Inc.	Equipment > $1000	Court Services	General Fund	8/28/2023	2,564.08
WEX BANK	Fuel- Vehicles	Court Services	General Fund	8/14/2023	217.75
Family Counseling Services of Aurora	Psychological/Psychiatric Srvs	Court Services	General Fund	8/28/2023	825.00
Family Counseling Services of Aurora	Psychological/Psychiatric Srvs	Court Services	General Fund	8/28/2023	4,283.34
Advanced Correctional Healthcare, Inc.	Medical/Dental/Hospital Services	Court Services	General Fund	8/14/2023	36,432.78
Advanced Correctional Healthcare, Inc.	Medical/Dental/Hospital Services	Court Services	General Fund	8/14/2023	(160.89)
Symphony Diagnostic Svcs No. 1 dba MobilexUSA	Medical/Dental/Hospital Services	Court Services	General Fund	8/28/2023	64.00
Symphony Diagnostic Svcs No. 1 dba MobilexUSA	Medical/Dental/Hospital Services	Court Services	General Fund	8/28/2023	64.00
Bob Barker Company Inc	Juvenile Board and Care	Court Services	General Fund	8/14/2023	852.66
Bob Barker Company Inc	Juvenile Board and Care	Court Services	General Fund	8/14/2023	420.00
Bob Barker Company Inc	Juvenile Board and Care	Court Services	General Fund	8/28/2023	1,076.16
Redwood Toxicology Inc.	Lab Services	Court Services	General Fund	8/14/2023	88.80
Garcia Clinical Laboratory, Inc.	Lab Services	Court Services	General Fund	8/28/2023	107.00
State Street Collision, Inc.	Repairs and Maint- Vehicles	Court Services	General Fund	8/14/2023	346.92
Fifth Third Bank	Repairs and Maint- Vehicles	Court Services	General Fund	8/28/2023	14.00
Checkpoint Press dba The Blue Line	Employment Advertising	Court Services	General Fund	8/14/2023	447.00
Amy L. Sierra	Conferences and Meetings	Court Services	General Fund	8/14/2023	113.85
Fifth Third Bank	Conferences and Meetings	Court Services	General Fund	8/28/2023	2,140.27
Fifth Third Bank	Conferences and Meetings	Court Services	General Fund	8/28/2023	767.80
Corey Harris	Conferences and Meetings	Court Services	General Fund	8/28/2023	96.00
Fifth Third Bank	Employee Training	Court Services	General Fund	8/28/2023	400.00
Fifth Third Bank	General Association Dues	Court Services	General Fund	8/28/2023	99.00
Century Springs/Ove Water Services	Miscellaneous Contractual Exp	Court Services	General Fund	8/14/2023	55.17
Century Springs/Ove Water Services	Miscellaneous Contractual Exp	Court Services	General Fund	8/28/2023	62.06
Warehouse Direct, Inc.	Office Supplies	Court Services	General Fund	8/14/2023	168.80
Warehouse Direct, Inc.	Office Supplies	Court Services	General Fund	8/28/2023	79.07
Quill Corporation	Office Supplies	Court Services	General Fund	8/28/2023	231.98
Bob Barker Company Inc	Operating Supplies	Court Services	General Fund	8/14/2023	32.40
Bob Barker Company Inc	Operating Supplies	Court Services	General Fund	8/14/2023	248.00
Bob Barker Company Inc	Operating Supplies	Court Services	General Fund	8/14/2023	248.00
Cooks Correctional Kitchen Equipment	Operating Supplies	Court Services	General Fund	8/14/2023	104.71
Synchrony Bank (Sam's Club Direct)	Operating Supplies	Court Services	General Fund	8/14/2023	190.60
Sysco Food Services Chicago	Operating Supplies	Court Services	General Fund	8/14/2023	77.19
Sysco Food Services Chicago	Operating Supplies	Court Services	General Fund	8/14/2023	177.66
Sysco Food Services Chicago	Operating Supplies	Court Services	General Fund	8/28/2023	118.44
Fifth Third Bank	Operating Supplies	Court Services	General Fund	8/28/2023	149.99
Fifth Third Bank	Operating Supplies	Court Services	General Fund	8/28/2023	2,033.63
The Tree House Inc	Computer Related Supplies	Court Services	General Fund	8/14/2023	962.65
Fifth Third Bank	Books and Subscriptions	Court Services	General Fund	8/28/2023	43.79
Synchrony Bank (Sam's Club Direct)	Food	Court Services	General Fund	8/14/2023	441.60
Sysco Food Services Chicago	Food	Court Services	General Fund	8/14/2023	69.59
Sysco Food Services Chicago	Food	Court Services	General Fund	8/14/2023	157.74
Sysco Food Services Chicago	Food	Court Services	General Fund	8/14/2023	1,085.96
Sysco Food Services Chicago	Food	Court Services	General Fund	8/14/2023	993.16
Sysco Food Services Chicago	Food	Court Services	General Fund	8/14/2023	228.47
Aramark Services, Inc.	Food	Court Services	General Fund	8/14/2023	2,003.00
Aramark Services, Inc.	Food	Court Services	General Fund	8/14/2023	1,890.00
Aramark Services, Inc.	Food	Court Services	General Fund	8/28/2023	1,890.00
Aramark Services, Inc.	Food	Court Services	General Fund	8/28/2023	1,890.00
Fifth Third Bank	Food	Court Services	General Fund	8/28/2023	74.18
Sysco Food Services Chicago	Food	Court Services	General Fund	8/28/2023	1,221.70
Sysco Food Services Chicago	Food	Court Services	General Fund	8/28/2023	374.17
McKesson Medical Surgical	Medical Supplies and Drugs	Court Services	General Fund	8/14/2023	83.94
Redwood Toxicology Inc.	Medical Supplies and Drugs	Court Services	General Fund	8/14/2023	140.50
McKesson Medical Surgical	Medical Supplies and Drugs	Court Services	General Fund	8/28/2023	68.04

McKesson Medical Surgical	Medical Supplies and Drugs	Court Services	General Fund	8/28/2023	36.48
Green Tree Pharmacy	Medical Supplies and Drugs	Court Services	General Fund	8/28/2023	2,232.46
Fifth Third Bank	Subscription Databases	Court Services	General Fund	8/28/2023	19.99
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Court Services	General Fund	8/14/2023	42.49
Fifth Third Bank	Employee Training	Court Services	General Fund	8/28/2023	2,394.85
Warehouse Direct, Inc.	Office Supplies	Court Services	General Fund	8/28/2023	220.76
Redwood Toxicology Inc.	Lab Services	Court Services	General Fund	8/28/2023	330.95
Marta A. Helenowski	Autopsies/Consulting	Coroner	General Fund	8/14/2023	6,750.00
Mitra B. Kalelkar	Autopsies/Consulting	Coroner	General Fund	8/14/2023	16,500.00
James A. Filkins	Autopsies/Consulting	Coroner	General Fund	8/28/2023	6,000.00
NMS Labs	Toxicology Expense	Coroner	General Fund	8/28/2023	7,216.00
Fifth Third Bank	Repairs and Maint- Vehicles	Coroner	General Fund	8/28/2023	94.47
Marberry Cleaners & Launderers	Miscellaneous Contractual Exp	Coroner	General Fund	8/28/2023	104.94
Marberry Cleaners & Launderers	Miscellaneous Contractual Exp	Coroner	General Fund	8/28/2023	62.01
TIAA Commercial Finance Inc	Miscellaneous Contractual Exp	Coroner	General Fund	8/28/2023	217.00
Fifth Third Bank	Books and Subscriptions	Coroner	General Fund	8/28/2023	104.91
WEX BANK	Fuel- Vehicles	Coroner	General Fund	8/14/2023	971.15
Fifth Third Bank	Repairs and Maint- Equipment	Emergency Management Services	General Fund	8/28/2023	214.66
Advance Stores Company, Inc. (Advance Auto Parts)	Repairs and Maint- Vehicles	Emergency Management Services	General Fund	8/14/2023	20.99
Strypes Plus More, Inc.	Repairs and Maint- Vehicles	Emergency Management Services	General Fund	8/14/2023	832.00
Strypes Plus More, Inc.	Repairs and Maint- Vehicles	Emergency Management Services	General Fund	8/14/2023	408.00
Advance Stores Company, Inc. (Advance Auto Parts)	Repairs and Maint- Vehicles	Emergency Management Services	General Fund	8/28/2023	26.80
Fifth Third Bank	Repairs and Maint- Vehicles	Emergency Management Services	General Fund	8/28/2023	96.20
Illinois Emergency Management Agency (IEMA)	Employee Training	Emergency Management Services	General Fund	8/28/2023	75.00
Illinois Emergency Management Agency (IEMA)	Employee Training	Emergency Management Services	General Fund	8/28/2023	75.00
Illinois Emergency Management Agency (IEMA)	Employee Training	Emergency Management Services	General Fund	8/28/2023	75.00
Kane County Fire Chiefs Assn.	General Association Dues	Emergency Management Services	General Fund	8/14/2023	40.00
Quill Corporation	Office Supplies	Emergency Management Services	General Fund	8/14/2023	74.99
Fifth Third Bank	Office Supplies	Emergency Management Services	General Fund	8/28/2023	654.75
Keith Parks Enterprises, Inc. dba Accurate Towing	Operating Supplies	Emergency Management Services	General Fund	8/14/2023	300.00
Fifth Third Bank	Operating Supplies	Emergency Management Services	General Fund	8/28/2023	1,393.94
Insight Public Sector Inc	Computer Related Supplies	Emergency Management Services	General Fund	8/14/2023	4,590.00
Advance Stores Company, Inc. (Advance Auto Parts)	Communication Equip - Non-Capital	Emergency Management Services	General Fund	8/28/2023	49.29
Fifth Third Bank	Repairs and Maint- Vehicles	Environmental Management	General Fund	8/28/2023	10.00
Fifth Third Bank	General Association Dues	Environmental Management	General Fund	8/28/2023	50.00
Fifth Third Bank	Office Supplies	Environmental Management	General Fund	8/28/2023	32.59
WEX BANK	Fuel- Vehicles	Environmental Management	General Fund	8/28/2023	60.49
Janet Richardson	Building and Inspection Permits	Development	General Fund	8/28/2023	200.00
Chicago Title Company, LLC	Contractual/Consulting Services	Development	General Fund	8/14/2023	250.00
Impact Networking, LLC	Repairs and Maint- Copiers	Development	General Fund	8/14/2023	76.76
Rons Automotive Services Inc	Repairs and Maint- Vehicles	Development	General Fund	8/14/2023	932.85
Batavia Instant Print Inc	General Printing	Development	General Fund	8/14/2023	428.60
Paddock Publications (Daily Herald)	Legal Printing	Development	General Fund	8/14/2023	186.30
Planet Depos, LLC	Legal Printing	Development	General Fund	8/14/2023	997.45
Karen Ann Miller	Employee Mileage Expense	Development	General Fund	8/28/2023	228.34
Karen Ann Miller	Employee Mileage Expense	Development	General Fund	8/28/2023	28.37
James J Plonczynski	Employee Mileage Expense	Development	General Fund	8/28/2023	28.82
American Planning Association	General Association Dues	Development	General Fund	8/14/2023	695.00
Warehouse Direct, Inc.	Office Supplies	Development	General Fund	8/14/2023	288.07
Warehouse Direct, Inc.	Office Supplies	Development	General Fund	8/14/2023	71.37
Warehouse Direct, Inc.	Office Supplies	Development	General Fund	8/28/2023	104.76
Warehouse Direct, Inc.	Office Supplies	Development	General Fund	8/28/2023	34.67
Fifth Third Bank	Office Supplies	Development	General Fund	8/28/2023	63.18
Century Springs/Ove Water Services	Operating Supplies	Development	General Fund	8/14/2023	10.58
Fifth Third Bank	Operating Supplies	Development	General Fund	8/28/2023	67.99

WEX BANK	Fuel- Vehicles	Development	General Fund	8/14/2023	1,137.07
Camic, Johnson, Ltd	Contractual/Consulting Services	Development	General Fund	8/14/2023	400.00
LRD Systems & Forms	Self-Mailer	Other- Countywide Expenses	General Fund	8/14/2023	150.00
LRD Systems & Forms	Self-Mailer	Other- Countywide Expenses	General Fund	8/14/2023	517.66
LRD Systems & Forms	Self-Mailer	Other- Countywide Expenses	General Fund	8/14/2023	150.00
LRD Systems & Forms	Self-Mailer	Other- Countywide Expenses	General Fund	8/14/2023	2,189.57
LRD Systems & Forms	Self-Mailer	Other- Countywide Expenses	General Fund	8/28/2023	726.36
FedEx	Postage	Other- Countywide Expenses	General Fund	8/14/2023	613.07
FedEx	Postage	Other- Countywide Expenses	General Fund	8/14/2023	227.57
FedEx	Postage	Other- Countywide Expenses	General Fund	8/14/2023	98.18
FedEx	Postage	Other- Countywide Expenses	General Fund	8/14/2023	69.45
Pitney Bowes Presort Services LLC	Postage	Other- Countywide Expenses	General Fund	8/14/2023	66.11
Pitney Bowes, Inc.	Postage	Other- Countywide Expenses	General Fund	8/14/2023	285.12
Pitney Bowes, Inc.	Postage	Other- Countywide Expenses	General Fund	8/14/2023	863.64
FedEx	Postage	Other- Countywide Expenses	General Fund	8/28/2023	14.88
Devnet, Inc	Software Licensing Cost	Other- Countywide Expenses	General Fund	8/14/2023	42,166.87
Fifth Third Bank	Software Licensing Cost	Other- Countywide Expenses	General Fund	8/28/2023	308.04
Hodges-Mace LLC	Software Licensing Cost	Other- Countywide Expenses	General Fund	8/28/2023	7,592.30
Insight Public Sector Inc	Software Licensing Cost	Other- Countywide Expenses	General Fund	8/28/2023	29,400.00
Dell Marketing LP	Software Licensing Cost	Other- Countywide Expenses	General Fund	8/28/2023	16,434.18
AT&T	Telephone	Other- Countywide Expenses	General Fund	8/28/2023	132.23
AT&T	Telephone	Other- Countywide Expenses	General Fund	8/28/2023	284.96
AT&T	Telephone	Other- Countywide Expenses	General Fund	8/28/2023	1,282.71
AT&T	Telephone	Other- Countywide Expenses	General Fund	8/28/2023	3,105.67
AT&T	Telephone	Other- Countywide Expenses	General Fund	8/28/2023	4,442.72
AT&T	Telephone	Other- Countywide Expenses	General Fund	8/28/2023	404.56
AT&T	Telephone	Other- Countywide Expenses	General Fund	8/28/2023	304.10
Fifth Third Bank	Telephone	Other- Countywide Expenses	General Fund	8/28/2023	203.22
AT&T Mobility	Cellular Phone	Other- Countywide Expenses	General Fund	8/14/2023	72.48
AT&T Mobility	Cellular Phone	Other- Countywide Expenses	General Fund	8/14/2023	39.37
Spok, Inc. (USA Mobility Wireless Inc)	Cellular Phone	Other- Countywide Expenses	General Fund	8/14/2023	522.06
Spok, Inc. (USA Mobility Wireless Inc)	Cellular Phone	Other- Countywide Expenses	General Fund	8/14/2023	352.17
T-Mobile USA, Inc.	Cellular Phone	Other- Countywide Expenses	General Fund	8/14/2023	47.20
Verizon Wireless	Cellular Phone	Other- Countywide Expenses	General Fund	8/28/2023	34,088.62
Thomas Cunningham	Internet	Other- Countywide Expenses	General Fund	8/14/2023	110.00
Andrew Dohr	Internet	Other- Countywide Expenses	General Fund	8/14/2023	70.00
Darin P. Earl	Internet	Other- Countywide Expenses	General Fund	8/14/2023	99.99
Robert Enright	Internet	Other- Countywide Expenses	General Fund	8/14/2023	62.00
Gary Erickson	Internet	Other- Countywide Expenses	General Fund	8/14/2023	79.99
Benjamin Fox	Internet	Other- Countywide Expenses	General Fund	8/14/2023	61.99
Eric C Gwillim	Internet	Other- Countywide Expenses	General Fund	8/14/2023	179.90
Christopher R. Hemesath	Internet	Other- Countywide Expenses	General Fund	8/14/2023	69.95
Jon Kloese	Internet	Other- Countywide Expenses	General Fund	8/14/2023	79.95
Kurt D. Lebo	Internet	Other- Countywide Expenses	General Fund	8/14/2023	68.01
Scott Novack	Internet	Other- Countywide Expenses	General Fund	8/14/2023	77.03
Jill Allen Reed	Internet	Other- Countywide Expenses	General Fund	8/14/2023	35.04
Brooke Roff	Internet	Other- Countywide Expenses	General Fund	8/14/2023	89.95
John Zakosek	Internet	Other- Countywide Expenses	General Fund	8/14/2023	89.95
Adam Tedder	Internet	Other- Countywide Expenses	General Fund	8/14/2023	239.98
Vu Tran	Internet	Other- Countywide Expenses	General Fund	8/28/2023	75.00
Steven Shackleton	Internet	Other- Countywide Expenses	General Fund	8/28/2023	179.90
Blair Peters	Internet	Other- Countywide Expenses	General Fund	8/28/2023	79.95
Corey Malis	Internet	Other- Countywide Expenses	General Fund	8/28/2023	50.00
Fifth Third Bank	Internet	Other- Countywide Expenses	General Fund	8/28/2023	596.98
Fifth Third Bank	Internet	Other- Countywide Expenses	General Fund	8/28/2023	106.99

Fifth Third Bank	Internet	Other- Countywide Expenses	General Fund	8/28/2023	2,765.23
West Bend Mutual Insurance Company	Liability Insurance	Human Resource Management	Insurance Liability	8/14/2023	20.00
West Bend Mutual Insurance Company	Liability Insurance	Human Resource Management	Insurance Liability	8/14/2023	20.00
West Bend Mutual Insurance Company	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	20.00
West Bend Mutual Insurance Company	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	20.00
West Bend Mutual Insurance Company	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	20.00
West Bend Mutual Insurance Company	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	20.00
West Bend Mutual Insurance Company	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	20.00
West Bend Mutual Insurance Company	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	20.00
West Bend Mutual Insurance Company	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	20.00
West Bend Mutual Insurance Company	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	20.00
West Bend Mutual Insurance Company	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	20.00
West Professional Auto Repair E dba Classic Towing	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	298.00
CCMSI	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	2,055.59
Northern Contracting, Inc.	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	2,645.46
Northern Contracting, Inc.	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	4,771.67
Physicians Immediate Care North Chicago, LLC	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	99.00
Spike Body Werks Inc dba Carstar Geneva Body Shop	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	2,264.17
Spike Body Werks Inc dba Carstar Geneva Body Shop	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	8,808.39
Strypes Plus More, Inc.	Liability Insurance	Human Resource Management	Insurance Liability	8/28/2023	455.00
Matthew J Goncher	Workers Compensation	Human Resource Management	Insurance Liability	8/11/2023	927.24
Illinois Workers Compensation Commission	Workers Compensation	Human Resource Management	Insurance Liability	8/28/2023	1,084.32
CCMSI	Workers Compensation	Human Resource Management	Insurance Liability	8/28/2023	53,531.32
Illinois Department of Employment Security	Unemployment Claims	Human Resource Management	Insurance Liability	8/28/2023	10,252.00
Klein, Thorpe & Jenkins, LTD.	Legal Services	State's Attorney	Insurance Liability	8/14/2023	9,340.00
The Sotos Law Firm, P.C	Legal Services	State's Attorney	Insurance Liability	8/28/2023	13,318.12
The Sotos Law Firm, P.C	Legal Services	State's Attorney	Insurance Liability	8/28/2023	496.50
[redacted]		State's Attorney	Insurance Liability	8/14/2023	375.00
[redacted]		State's Attorney	Insurance Liability	8/14/2023	30.00
Chronicle Media, LLC	Legal Trial Notices	State's Attorney	Insurance Liability	8/14/2023	60.00
Chronicle Media, LLC	Legal Trial Notices	State's Attorney	Insurance Liability	8/28/2023	90.00
Chronicle Media, LLC	Legal Trial Notices	State's Attorney	Insurance Liability	8/28/2023	90.00
Planet Depos, LLC	Court Reporter Costs	State's Attorney	Insurance Liability	8/14/2023	544.75
CK Reporting, LTD	Court Reporter Costs	State's Attorney	Insurance Liability	8/28/2023	206.70
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	State's Attorney	Insurance Liability	8/14/2023	85.71
Impact Networking, LLC	Repairs and Maint- Copiers	State's Attorney	Insurance Liability	8/28/2023	210.10
Fifth Third Bank	Conferences and Meetings	State's Attorney	Insurance Liability	8/28/2023	450.00
Century Springs/Ove Water Services	Office Supplies	State's Attorney	Insurance Liability	8/14/2023	2.99
Century Springs/Ove Water Services	Office Supplies	State's Attorney	Insurance Liability	8/28/2023	23.45
Century Springs/Ove Water Services	Office Supplies	Information Technologies	Geographic Information Systems	8/28/2023	13.57
Fifth Third Bank	Office Supplies	Information Technologies	Geographic Information Systems	8/28/2023	174.15
Warehouse Direct, Inc.	Office Supplies	Information Technologies	Geographic Information Systems	8/28/2023	3.85
Fifth Third Bank	Computer Related Supplies	Information Technologies	Geographic Information Systems	8/28/2023	82.10
Old Republic-MN ARP	Workers Compensation	County Board	Grand Victoria Casino Elgin	8/28/2023	15.20
Big Rock Plowing Match Association	External Grants	County Board	Grand Victoria Casino Elgin	8/14/2023	13,409.58
Girl Scouts of Northern Illinois	External Grants	County Board	Grand Victoria Casino Elgin	8/14/2023	20,000.00
Literacy Volunteers Fox Valley	External Grants	County Board	Grand Victoria Casino Elgin	8/14/2023	2,932.44
Fifth Third Bank	Office Supplies	County Board	Grand Victoria Casino Elgin	8/28/2023	93.24
Defin.Net Solutions Inc	Contractual/Consulting Services	Other- Countywide Expenses	Public Safety Sales Tax	8/28/2023	11,000.00
USIC Locating Services LLC	Communications Equipment	Other- Countywide Expenses	Public Safety Sales Tax	8/14/2023	2,035.22
Edgar J Acevedo	Conferences and Meetings	Other- Countywide Expenses	Judicial Technology Sales Tax	8/14/2023	289.47
Fifth Third Bank	Automotive Equipment	Sheriff	Sheriff's Vehicle & Equipment	8/28/2023	10,838.16
Fifth Third Bank	Automotive Equipment	Sheriff	Sheriff's Vehicle & Equipment	8/28/2023	2,145.00
Morrow Brothers Ford, Inc.	Automotive Equipment	Sheriff	Sheriff's Vehicle & Equipment	8/28/2023	40,745.00
Devnet, Inc	Computer Software- Capital	County Clerk	Vital Records Automation	8/14/2023	7,731.71

Gordon Flesch Company Inc	Repairs and Maint- Copiers	Recorder	Recorder's Automation	8/28/2023	10.40
HOV Services Inc dba an Exela Technologies Co.	Operating Supplies	Recorder	Recorder's Automation	8/14/2023	366.13
HOV Services Inc dba an Exela Technologies Co.	Operating Supplies	Recorder	Recorder's Automation	8/28/2023	366.13
Imprint Enterprises Inc	Computer Related Supplies	Recorder	Recorder's Automation	8/14/2023	460.50
Land-Code LLC	Computer Related Supplies	Recorder	Recorder's Automation	8/14/2023	444.85
SHI International Corp	Computer Related Supplies	Recorder	Recorder's Automation	8/28/2023	1,776.00
Kane County Bar Foundation, Inc.	Contractual/Consulting Services	Judiciary and Courts	Children's Waiting Room	8/28/2023	13,036.34
Deb Chan	Employee Mileage Expense	Circuit Clerk	Court Automation	8/14/2023	72.97
Accurate Document Destruction Inc (GROOT)	Destruction of Records Services	Circuit Clerk	Court Document Storage	8/28/2023	408.65
Impact Networking, LLC	Repairs and Maint- Copiers	Circuit Clerk	Court Document Storage	8/14/2023	118.80
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Circuit Clerk	Court Document Storage	8/14/2023	59.88
Canon Solutions America Inc	Repairs and Maint- Copiers	Circuit Clerk	Court Document Storage	8/28/2023	61.03
Cummins-Allison Corporation	Repairs and Maint- Equipment	Circuit Clerk	Circuit Clerk Admin Services	8/28/2023	2,256.28
Expert Lock & Safe, Inc.	Office Supplies	Circuit Clerk	Circuit Clerk Admin Services	8/14/2023	381.00
Warehouse Direct, Inc.	Office Supplies	Circuit Clerk	Circuit Clk Electronic Citation	8/28/2023	7.82
Kane County Bar Assn	General Association Dues	State's Attorney	Title IV-D	8/14/2023	140.00
Mary A Trezzo	Court Reporter Costs	State's Attorney	Drug Prosecution	8/14/2023	120.00
Jennifer Campbell	Court Reporter Costs	State's Attorney	Drug Prosecution	8/14/2023	59.00
Debra P Hogan	Court Reporter Costs	State's Attorney	Drug Prosecution	8/28/2023	28.00
Melissa K. Anderko	Court Reporter Costs	State's Attorney	Drug Prosecution	8/28/2023	160.00
Margaret (Peggy) R. Beddard	Court Reporter Costs	State's Attorney	Drug Prosecution	8/28/2023	36.00
Dana D. Bollman	Court Reporter Costs	State's Attorney	Drug Prosecution	8/28/2023	256.00
Margaret (Peggy) R. Beddard	Court Reporter Costs	State's Attorney	Domestic Violence	8/28/2023	32.00
[redacted]		State's Attorney	Child Advocacy Center	8/14/2023	603.62
MaryJo D'Avola	Court Reporter Costs	State's Attorney	Child Advocacy Center	8/14/2023	22.00
Barbara A Johnston	Court Reporter Costs	State's Attorney	Child Advocacy Center	8/14/2023	26.00
Melissa K. Anderko	Court Reporter Costs	State's Attorney	Child Advocacy Center	8/28/2023	92.00
Margaret (Peggy) R. Beddard	Court Reporter Costs	State's Attorney	Child Advocacy Center	8/28/2023	72.00
Roots and Wings Counseling Consultants, LLC	Counseling Services	State's Attorney	Child Advocacy Center	8/28/2023	200.00
Julie Turner	Counseling Services	State's Attorney	Child Advocacy Center	8/28/2023	1,400.00
Impact Networking, LLC	Repairs and Maint- Copiers	State's Attorney	Child Advocacy Center	8/28/2023	420.20
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	State's Attorney	Child Advocacy Center	8/28/2023	17.37
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	State's Attorney	Child Advocacy Center	8/28/2023	23.85
Fifth Third Bank	Employee Training	State's Attorney	Child Advocacy Center	8/28/2023	(23.40)
Silvia Cruz	Operating Supplies	State's Attorney	Child Advocacy Center	8/14/2023	270.98
Fifth Third Bank	Operating Supplies	State's Attorney	Child Advocacy Center	8/28/2023	(649.79)
Thomson Reuters GRC Inc. (West Government)	Books and Subscriptions	State's Attorney	Child Advocacy Center	8/28/2023	94.40
Fifth Third Bank	Computer Software- Non Capital	State's Attorney	Child Advocacy Center	8/28/2023	15.99
WEX BANK	Fuel- Vehicles	State's Attorney	Child Advocacy Center	8/14/2023	59.56
Fifth Third Bank	Operating Supplies	Emergency Management Services	EMA Volunteer Fund	8/28/2023	624.55
Halle Cox	Conferences and Meetings	Law Library	Law Library	8/14/2023	1,284.08
Tiffany L. Montiel	Employee Mileage Expense	Law Library	Law Library	8/14/2023	89.08
Halle Cox	Employee Mileage Expense	Law Library	Law Library	8/28/2023	136.90
Ellen Fultz-Schmid	Employee Mileage Expense	Law Library	Law Library	8/28/2023	11.79
Fifth Third Bank	Office Supplies	Law Library	Law Library	8/28/2023	91.02
Fifth Third Bank	Computer Related Supplies	Law Library	Law Library	8/28/2023	255.00
Fifth Third Bank	Books and Subscriptions	Law Library	Law Library	8/28/2023	342.85
Fifth Third Bank	Food	Law Library	Law Library	8/28/2023	346.08
Fifth Third Bank	Operating Supplies	Sheriff	Cannabis Regulation - Local	8/28/2023	806.16
Fifth Third Bank	Operating Supplies	Sheriff	Cannabis Regulation - Local	8/28/2023	1,099.99
Aramark Services, Inc.	Operating Supplies	Sheriff	Sheriff DEF Federal - Treasury	8/14/2023	806.91
JJT Services, Inc. dba JLT Photography	Operating Supplies	Sheriff	Sheriff DEF Federal - Treasury	8/28/2023	3,000.00
ComEd	Contractual/Consulting Services	Kane Comm	Kane Comm	8/28/2023	31.65
Fifth Third Bank	Contractual/Consulting Services	Kane Comm	Kane Comm	8/28/2023	17.91
Motorola Solutions Inc	Contractual/Consulting Services	Kane Comm	Kane Comm	8/28/2023	1,400.00

Nationwide Power Solutions Inc	Contractual/Consulting Services	Kane Comm	Kane Comm	8/28/2023	2,462.64
PowerDMS, Inc.	Contractual/Consulting Services	Kane Comm	Kane Comm	8/28/2023	2,016.00
PowerDMS, Inc.	Contractual/Consulting Services	Kane Comm	Kane Comm	8/28/2023	2,196.56
Fifth Third Bank	Conferences and Meetings	Kane Comm	Kane Comm	8/28/2023	828.59
Sarah Stoffa	Conferences and Meetings	Kane Comm	Kane Comm	8/28/2023	1,309.09
Fifth Third Bank	Employee Training	Kane Comm	Kane Comm	8/28/2023	421.83
Andrew Baumann	Employee Mileage Expense	Kane Comm	Kane Comm	8/28/2023	227.95
Michelle Guthrie	Employee Mileage Expense	Kane Comm	Kane Comm	8/28/2023	63.54
Fifth Third Bank	Pre-Employment Physicals	Kane Comm	Kane Comm	8/28/2023	49.00
Century Springs/Ove Water Services	Office Supplies	Kane Comm	Kane Comm	8/28/2023	19.16
Century Springs/Ove Water Services	Office Supplies	Kane Comm	Kane Comm	8/28/2023	2.99
Century Springs/Ove Water Services	Office Supplies	Kane Comm	Kane Comm	8/28/2023	27.74
Warehouse Direct, Inc.	Office Supplies	Kane Comm	Kane Comm	8/28/2023	78.99
Fifth Third Bank	Operating Supplies	Kane Comm	Kane Comm	8/28/2023	100.73
Michelle Guthrie	Operating Supplies	Kane Comm	Kane Comm	8/28/2023	87.88
Fifth Third Bank	Employee Recognition Supplies	Kane Comm	Kane Comm	8/28/2023	106.22
Michelle Guthrie	Employee Recognition Supplies	Kane Comm	Kane Comm	8/28/2023	79.12
Care Clinics Inc	Contractual/Consulting Services	Court Services	Probation Services	8/14/2023	100.00
Associates in Behavioral Health Care ABC - DUI	Contractual/Consulting Services	Court Services	Probation Services	8/14/2023	150.00
Associates in Behavioral Health Care ABC - DUI	Contractual/Consulting Services	Court Services	Probation Services	8/14/2023	100.00
Associates in Behavioral Health Care ABC - DUI	Contractual/Consulting Services	Court Services	Probation Services	8/14/2023	200.00
Associates in Behavioral Health Care ABC - DUI	Contractual/Consulting Services	Court Services	Probation Services	8/14/2023	150.00
Associates in Behavioral Health Care ABC - DUI	Contractual/Consulting Services	Court Services	Probation Services	8/14/2023	100.00
Lighthouse Recovery, Inc.	Contractual/Consulting Services	Court Services	Probation Services	8/14/2023	150.00
Tools for Life, Ltd	Contractual/Consulting Services	Court Services	Probation Services	8/14/2023	375.00
Braden Counseling Center, P.C.	Contractual/Consulting Services	Court Services	Probation Services	8/28/2023	125.00
Language Line Services	Contractual/Consulting Services	Court Services	Probation Services	8/28/2023	2,323.49
About Change Counseling	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	250.00
About Change Counseling	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	368.00
About Change Counseling	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	125.00
Addiction Recovery Services, Inc.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	276.00
Addiction Recovery Services, Inc.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	460.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	100.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	90.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	100.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	200.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	70.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	400.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	150.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	50.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	80.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	530.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	80.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	540.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	40.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	90.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	200.00
Associates in Behavioral Health Care ABC - DUI	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	200.00
Ecker Center for Mental Health	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	560.00
Lighthouse Recovery, Inc.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	440.00
Tools for Life, Ltd	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	570.00
Tools for Life, Ltd	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/14/2023	720.00
Tools for Life, Ltd	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	500.00
Mutual Ground, Inc.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	58.20
Mutual Ground, Inc.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	65.00

Mutual Ground, Inc.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	65.00
One Hope United	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	19,105.26
Ecker Center for Mental Health	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	395.00
Godrocs, Inc. dba Care Clinic of Naperville	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	375.00
Kuhn Counseling Center, P.C.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	225.00
Kuhn Counseling Center, P.C.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	150.00
Braden Counseling Center, P.C.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	85.00
Braden Counseling Center, P.C.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	85.00
Braden Counseling Center, P.C.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	85.00
Braden Counseling Center, P.C.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	85.00
Braden Counseling Center, P.C.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	85.00
Braden Counseling Center, P.C.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	530.00
Braden Counseling Center, P.C.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	240.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	105.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	175.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	70.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	105.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	70.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	140.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	35.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	105.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	105.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	105.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	105.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	100.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	70.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	70.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	70.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	140.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	105.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	140.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	140.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	140.00
Community Crisis Center Inc	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	105.00
Addiction Recovery Services, Inc.	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	460.00
About Behavioral Change, NFP	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	140.00
About Behavioral Change, NFP	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	140.00
About Behavioral Change, NFP	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	105.00
About Behavioral Change, NFP	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	140.00
About Behavioral Change, NFP	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	70.00
About Behavioral Change, NFP	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	240.00
About Behavioral Change, NFP	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	175.00
About Behavioral Change, NFP	Psychological/Psychiatric Srvs	Court Services	Probation Services	8/28/2023	105.00
Fifth Third Bank	Incentives	Court Services	Probation Services	8/28/2023	1,200.00
PharmChem, Inc.	Lab Services	Court Services	Substance Abuse Screening	8/14/2023	127.80
Redwood Toxicology Inc.	Lab Services	Court Services	Substance Abuse Screening	8/28/2023	1,210.30
Redwood Toxicology Inc.	Lab Services	Court Services	Substance Abuse Screening	8/28/2023	1,235.40
Redwood Toxicology Inc.	Lab Services	Court Services	Substance Abuse Screening	8/28/2023	610.45
Redwood Toxicology Inc.	Lab Services	Court Services	Substance Abuse Screening	8/28/2023	202.70
McKesson Medical Surgical	Medical Supplies and Drugs	Court Services	Substance Abuse Screening	8/28/2023	317.27
Gateway Foundation	Contractual/Consulting Services	Court Services	Drug Court Special Resources	8/14/2023	1,670.00
Ecker Center for Mental Health	Contractual/Consulting Services	Court Services	Drug Court Special Resources	8/28/2023	549.28
Ecker Center for Mental Health	Contractual/Consulting Services	Court Services	Drug Court Special Resources	8/28/2023	1,250.00
Fifth Third Bank	Lab Services	Court Services	Drug Court Special Resources	8/28/2023	208.00
Redwood Toxicology Inc.	Lab Services	Court Services	Drug Court Special Resources	8/28/2023	6,017.10

Serenity House Counseling Services, Inc.	Halfway House	Court Services	Drug Court Special Resources	8/28/2023	76.00
Serenity House Counseling Services, Inc.	Halfway House	Court Services	Drug Court Special Resources	8/28/2023	340.00
Serenity House Counseling Services, Inc.	Halfway House	Court Services	Drug Court Special Resources	8/28/2023	340.00
Gateway Foundation	Residential Treatment	Court Services	Drug Court Special Resources	8/14/2023	4,752.00
Nicasa, NFP	Residential Treatment	Court Services	Drug Court Special Resources	8/14/2023	560.00
Nicasa, NFP	Residential Treatment	Court Services	Drug Court Special Resources	8/14/2023	640.00
Serenity House Counseling Services, Inc.	Residential Treatment	Court Services	Drug Court Special Resources	8/28/2023	340.00
Alyssa Rae Andrews	Conferences and Meetings	Court Services	Drug Court Special Resources	8/14/2023	184.00
Lena Fischer	Conferences and Meetings	Court Services	Drug Court Special Resources	8/14/2023	225.22
Fifth Third Bank	Conferences and Meetings	Court Services	Drug Court Special Resources	8/28/2023	302.83
NICOLE Villela	Employee Training	Court Services	Drug Court Special Resources	8/14/2023	182.00
Chicago Transit Authority	Sanction Incentives	Court Services	Drug Court Special Resources	8/14/2023	1,860.00
Fifth Third Bank	Sanction Incentives	Court Services	Drug Court Special Resources	8/28/2023	117.24
Fifth Third Bank	Peer Group Activities Supplies	Court Services	Drug Court Special Resources	8/28/2023	613.29
Fifth Third Bank	Employee Training	Coroner	Coroner Administration	8/28/2023	31.04
Marberry Cleaners & Launderers	Miscellaneous Contractual Exp	Coroner	Coroner Administration	8/14/2023	46.11
Marberry Cleaners & Launderers	Miscellaneous Contractual Exp	Coroner	Coroner Administration	8/14/2023	116.07
Stericycle, Inc.	Miscellaneous Contractual Exp	Coroner	Coroner Administration	8/14/2023	474.87
Copy King Office Solutions Inc	Miscellaneous Contractual Exp	Coroner	Coroner Administration	8/28/2023	287.66
Warehouse Direct, Inc.	Office Supplies	Coroner	Coroner Administration	8/14/2023	283.40
Century Springs/Ove Water Services	Operating Supplies	Coroner	Coroner Administration	8/14/2023	54.14
Classic Plastics Corporation	Operating Supplies	Coroner	Coroner Administration	8/14/2023	2,316.00
R.S. Hughes Company, Inc.	Operating Supplies	Coroner	Coroner Administration	8/14/2023	71.65
R.S. Hughes Company, Inc.	Operating Supplies	Coroner	Coroner Administration	8/14/2023	143.30
R.S. Hughes Company, Inc.	Operating Supplies	Coroner	Coroner Administration	8/14/2023	71.65
Fifth Third Bank	Operating Supplies	Coroner	Coroner Administration	8/28/2023	330.77
Fifth Third Bank	Operating Supplies	Coroner	Coroner Administration	8/28/2023	557.00
Fifth Third Bank	Uniform Supplies	Coroner	Coroner Administration	8/28/2023	260.33
Fifth Third Bank	Uniform Supplies	Coroner	Coroner Administration	8/28/2023	289.00
DuPage Salt Company	Contractual/Consulting Services	Animal Control	Animal Control	8/28/2023	27.90
Ratliff Landscaping Inc	Contractual/Consulting Services	Animal Control	Animal Control	8/28/2023	1,390.00
Waste Management of Illinois - West	Contractual/Consulting Services	Animal Control	Animal Control	8/28/2023	95.33
Jeff R. Wieser	Contractual/Consulting Services	Animal Control	Animal Control	8/28/2023	400.00
Fifth Third Bank	Veterinarian Services	Animal Control	Animal Control	8/28/2023	531.00
HLP, Inc.	Software Licensing Cost	Animal Control	Animal Control	8/28/2023	6,728.43
HLP, Inc.	Software Licensing Cost	Animal Control	Animal Control	8/28/2023	4,223.34
DuPage Salt Company	Disposal and Water Softener Srvs	Animal Control	Animal Control	8/14/2023	37.20
Fifth Third Bank	General Advertising	Animal Control	Animal Control	8/28/2023	1,362.08
Fifth Third Bank	Employee Training	Animal Control	Animal Control	8/28/2023	1,950.00
Century Springs/Ove Water Services	Office Supplies	Animal Control	Animal Control	8/28/2023	2.99
Century Springs/Ove Water Services	Office Supplies	Animal Control	Animal Control	8/28/2023	23.45
Fifth Third Bank	Office Supplies	Animal Control	Animal Control	8/28/2023	375.77
City of Geneva	Utilities- Water	Animal Control	Animal Control	8/14/2023	383.10
Midwest Veterinary Supply Inc	Animal Care Supplies	Animal Control	Animal Control	8/14/2023	119.84
Midwest Veterinary Supply Inc	Animal Care Supplies	Animal Control	Animal Control	8/14/2023	348.42
Midwest Veterinary Supply Inc	Animal Care Supplies	Animal Control	Animal Control	8/28/2023	147.70
Midwest Veterinary Supply Inc	Animal Care Supplies	Animal Control	Animal Control	8/28/2023	152.09
Fifth Third Bank	Animal Care Supplies	Animal Control	Animal Control	8/28/2023	714.91
City of Geneva	Utilities- Electric	Animal Control	Animal Control	8/14/2023	798.74
WEX BANK	Fuel- Vehicles	Animal Control	Animal Control	8/28/2023	763.06
ATT Illinois	Roadway Access Permits	Transportation	County Highway	8/28/2023	950.00
Unite Private Networks	Roadway Access Permits	Transportation	County Highway	8/28/2023	150.00
BLA Inc	Engineering Services	Transportation	County Highway	8/14/2023	1,747.50
Huff & Huff, Inc.	Engineering Services	Transportation	County Highway	8/28/2023	3,774.78
State Materials Engineering LLC	Engineering Services	Transportation	County Highway	8/28/2023	785.00

State Materials Engineering LLC	Engineering Services	Transportation	County Highway	8/28/2023	230.00
State Materials Engineering LLC	Engineering Services	Transportation	County Highway	8/28/2023	7,120.00
State Materials Engineering LLC	Engineering Services	Transportation	County Highway	8/28/2023	13,275.00
GIS Solutions Inc	Contractual/Consulting Services	Transportation	County Highway	8/28/2023	2,587.50
J Patrick Jaeger	Legal Services	Transportation	County Highway	8/28/2023	4,000.00
Tyler Medical Services, S.C.	Medical/Dental/Hospital Services	Transportation	County Highway	8/28/2023	195.00
Tyler Medical Services, S.C.	Medical/Dental/Hospital Services	Transportation	County Highway	8/28/2023	95.00
Diglet LLC	Software Licensing Cost	Transportation	County Highway	8/28/2023	266.20
doForms, Inc.	Software Licensing Cost	Transportation	County Highway	8/28/2023	2,989.50
Fifth Third Bank	Software Licensing Cost	Transportation	County Highway	8/28/2023	498.70
Paymentus Corporation	Software Licensing Cost	Transportation	County Highway	8/28/2023	7,500.00
Verizon Comms, Inc. dba Verizon Connect Fleet USA	Software Licensing Cost	Transportation	County Highway	8/28/2023	675.10
Culligan Tri City Soft Water	Disposal and Water Softener Srvs	Transportation	County Highway	8/28/2023	1,599.00
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Transportation	County Highway	8/28/2023	588.90
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Transportation	County Highway	8/28/2023	579.15
Waste Management of Illinois - West	Disposal and Water Softener Srvs	Transportation	County Highway	8/28/2023	32.48
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Transportation	County Highway	8/14/2023	1,406.25
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Transportation	County Highway	8/28/2023	1,406.25
Urban Elevator Service LLC	Repairs and Maint- Buildings	Transportation	County Highway	8/28/2023	299.52
KB Crane Services, Inc.	Repairs and Maint- Grounds	Transportation	County Highway	8/28/2023	650.00
Impact Networking, LLC	Repairs and Maint- Copiers	Transportation	County Highway	8/14/2023	35.20
Impact Networking, LLC	Repairs and Maint- Copiers	Transportation	County Highway	8/14/2023	53.90
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Transportation	County Highway	8/14/2023	12.64
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Transportation	County Highway	8/28/2023	181.36
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Transportation	County Highway	8/28/2023	3.54
Kimco USA Inc	Repairs and Maint- Equipment	Transportation	County Highway	8/14/2023	1,352.89
Enterprise FM Trust	Vehicle Lease	Transportation	County Highway	8/28/2023	6,994.61
Rush Truck Centers of Illinois, Inc.	Repairs and Maint- Vehicles	Transportation	County Highway	8/28/2023	30.00
Fifth Third Bank	Legal Printing	Transportation	County Highway	8/28/2023	625.00
R W Wilson Printing Co	Mapping	Transportation	County Highway	8/28/2023	8,560.00
Jessica Abdelnour	Conferences and Meetings	Transportation	County Highway	8/14/2023	92.20
Jacqueline Forbes	Conferences and Meetings	Transportation	County Highway	8/14/2023	99.14
Illinois Association of County Engineers (IACE)	Conferences and Meetings	Transportation	County Highway	8/14/2023	200.00
Heidi Lichtenberger	Conferences and Meetings	Transportation	County Highway	8/14/2023	103.77
Carl Schoedel	Conferences and Meetings	Transportation	County Highway	8/14/2023	516.70
Stephen Douglas Zulkowski	Conferences and Meetings	Transportation	County Highway	8/28/2023	62.00
Keith Bradley McGraw	Conferences and Meetings	Transportation	County Highway	8/28/2023	40.00
Amba Krupa Corporation dba Taylor Street Pizza	Conferences and Meetings	Transportation	County Highway	8/28/2023	182.16
Fifth Third Bank	Conferences and Meetings	Transportation	County Highway	8/28/2023	2,209.91
Fifth Third Bank	Employee Training	Transportation	County Highway	8/28/2023	590.00
Jessica Abdelnour	Employee Mileage Expense	Transportation	County Highway	8/14/2023	14.54
Jacqueline Forbes	Employee Mileage Expense	Transportation	County Highway	8/14/2023	12.97
Stephen Douglas Zulkowski	Employee Mileage Expense	Transportation	County Highway	8/28/2023	57.25
Fifth Third Bank	General Association Dues	Transportation	County Highway	8/28/2023	320.00
Making Kane County Fit For Kids	General Association Dues	Transportation	County Highway	8/28/2023	10,000.00
Fifth Third Bank	Office Supplies	Transportation	County Highway	8/28/2023	749.06
Staples Business Advantage	Office Supplies	Transportation	County Highway	8/28/2023	479.94
Staples Business Advantage	Office Supplies	Transportation	County Highway	8/28/2023	44.96
Warehouse Direct, Inc.	Office Supplies	Transportation	County Highway	8/28/2023	452.85
Airgas North Central, Inc.	Operating Supplies	Transportation	County Highway	8/14/2023	905.98
Cintas Corporation	Operating Supplies	Transportation	County Highway	8/14/2023	143.44
Fifth Third Bank	Operating Supplies	Transportation	County Highway	8/28/2023	418.15
Sisler's Ice, Inc.	Operating Supplies	Transportation	County Highway	8/28/2023	204.25
Airgas North Central, Inc.	Operating Supplies	Transportation	County Highway	8/28/2023	58.43
FedEx	Postage	Transportation	County Highway	8/14/2023	20.38

Fifth Third Bank	Buildings and Grounds Supplies	Transportation	County Highway	8/28/2023	110.75
Grimco Inc	Sign Material	Transportation	County Highway	8/14/2023	1,104.64
Grimco Inc	Sign Material	Transportation	County Highway	8/14/2023	152.00
3M Company	Sign Material	Transportation	County Highway	8/28/2023	3,543.94
Custom Products Corporation	Sign Material	Transportation	County Highway	8/28/2023	2,261.08
Fritel & Asso. dba Diversified Product Development	Sign Material	Transportation	County Highway	8/28/2023	500.00
Nicor Gas	Utilities- Natural Gas	Transportation	County Highway	8/14/2023	164.41
Nicor Gas	Utilities- Natural Gas	Transportation	County Highway	8/28/2023	172.91
Nicor Gas	Utilities- Natural Gas	Transportation	County Highway	8/28/2023	163.80
Nicor Gas	Utilities- Natural Gas	Transportation	County Highway	8/28/2023	107.40
Nicor Gas	Utilities- Natural Gas	Transportation	County Highway	8/28/2023	56.07
Nicor Gas	Utilities- Natural Gas	Transportation	County Highway	8/28/2023	55.41
Constellation NewEnergy-Gas Division, LLC	Utilities- Natural Gas	Transportation	County Highway	8/28/2023	624.31
Constellation NewEnergy Inc.	Utilities- Electric	Transportation	County Highway	8/14/2023	94.91
Constellation NewEnergy Inc.	Utilities- Electric	Transportation	County Highway	8/14/2023	2,312.73
Constellation NewEnergy Inc.	Utilities- Electric	Transportation	County Highway	8/28/2023	61.52
Constellation NewEnergy Inc.	Utilities- Electric	Transportation	County Highway	8/28/2023	2,523.33
City of Batavia	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	93.75
City of Batavia	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	94.45
City of Batavia	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	115.91
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	23.13
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	88.48
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	60.23
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	144.26
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	99.20
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	2,987.76
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	200.05
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	96.15
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	104.37
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	111.02
Constellation NewEnergy Inc.	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	220.87
Constellation NewEnergy Inc.	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	170.16
State of IL Treasurer-IDOT	Utilities- Intersect Lighting	Transportation	County Highway	8/14/2023	385.92
Constellation NewEnergy Inc.	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	96.17
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	8.88
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	24.45
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	159.39
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	32.70
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	162.74
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	99.76
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	26.73
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	25.08
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	12.59
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	50.89
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	149.44
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	33.24
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	38.80
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	6.73
ComEd	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	6.44
City of Batavia	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	75.48
City of Batavia	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	41.38
City of Batavia	Utilities- Intersect Lighting	Transportation	County Highway	8/28/2023	92.07
Rush Truck Centers of Illinois, Inc.	Automotive Equipment	Transportation	County Highway	8/28/2023	73,000.00
Rush Truck Centers of Illinois, Inc.	Automotive Equipment	Transportation	County Highway	8/28/2023	66,000.00
Thomas Interior Systems, Inc	Office Furniture	Transportation	County Highway	8/14/2023	31,235.57

Jensen's Plumbing & Heating Inc	Machinery and Equipment	Transportation	County Highway	8/14/2023	28,900.00
H.E.S.S. Caulking & Restoration, Inc.	Building Improvements	Transportation	County Highway	8/28/2023	19,311.00
HR GREEN Inc (formerly SEC GROUP Inc)	Bridge Inspection	Transportation	County Bridge	8/14/2023	54,352.19
Suburban Teamsters of Northern Illinois	Teamsters Contribution	Transportation	Motor Fuel Tax	8/14/2023	62,720.00
BLA Inc	Engineering Services	Transportation	Motor Fuel Tax	8/14/2023	25,819.56
BLA Inc	Engineering Services	Transportation	Motor Fuel Tax	8/14/2023	53,360.25
BLA Inc	Engineering Services	Transportation	Motor Fuel Tax	8/28/2023	33,042.16
BLA Inc	Engineering Services	Transportation	Motor Fuel Tax	8/28/2023	4,661.10
Builders Paving, LLC	Repairs and Maint- Resurfacing	Transportation	Motor Fuel Tax	8/28/2023	1,461,799.16
Martam Construction Inc	Road Construction	Transportation	Motor Fuel Tax	8/14/2023	1,145,362.98
Martam Construction Inc	Road Construction	Transportation	Motor Fuel Tax	8/28/2023	806,542.25
BLA Inc	Engineering Services	Transportation	Motor Fuel Local Option	8/14/2023	1,265.10
BLA Inc	Engineering Services	Transportation	Motor Fuel Local Option	8/14/2023	28,625.00
BLA Inc	Engineering Services	Transportation	Motor Fuel Local Option	8/14/2023	8,766.78
BLA Inc	Engineering Services	Transportation	Motor Fuel Local Option	8/14/2023	3,448.05
City of Batavia	Repairs and Maintenance- Roads	Transportation	Motor Fuel Local Option	8/28/2023	6,184.00
DTN LLC	Repairs and Maintenance- Roads	Transportation	Motor Fuel Local Option	8/28/2023	669.00
Municipal Marking Distributors, Inc.	Repairs and Maintenance- Roads	Transportation	Motor Fuel Local Option	8/28/2023	90.00
Corrective Asphalt Materials, LLC (CAM)	Repairs and Maint- Resurfacing	Transportation	Motor Fuel Local Option	8/14/2023	435,448.39
Geneva Construction Company	Repairs and Maint- Resurfacing	Transportation	Motor Fuel Local Option	8/28/2023	134,115.45
Cintas Corporation	Uniform Supplies	Transportation	Motor Fuel Local Option	8/14/2023	333.16
Cintas Corporation	Uniform Supplies	Transportation	Motor Fuel Local Option	8/28/2023	333.16
Cintas Corporation	Uniform Supplies	Transportation	Motor Fuel Local Option	8/28/2023	333.16
Cintas Corporation	Uniform Supplies	Transportation	Motor Fuel Local Option	8/28/2023	334.98
Cintas Corporation	Uniform Supplies	Transportation	Motor Fuel Local Option	8/28/2023	339.64
Timothy Knight	Uniform Supplies	Transportation	Motor Fuel Local Option	8/28/2023	131.95
AGSCO Corporation	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	386.98
Brad Manning Ford, Inc.	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	151.14
Brad Manning Ford, Inc.	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	91.33
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	18.42
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	28.34
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	55.32
FleetPride Inc	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	262.21
FinishMaster Inc	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	(439.65)
FinishMaster Inc	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	439.65
FinishMaster Inc	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	283.71
FinishMaster Inc	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	334.11
Henderson Products Inc	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	454.77
Henderson Products Inc	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	454.77
JX Enterprises, Inc.	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	276.33
Via Carlita, LLC dba Hawk Ford of St. Charles	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	89.59
Via Carlita, LLC dba Hawk Ford of St. Charles	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	112.75
Via Carlita, LLC dba Hawk Ford of St. Charles	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	306.18
Lakeside International, LLC	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	166.64
PetroChoice Holdings Inc	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	625.44
Pomps Tire Service Inc	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	1,931.96
Rush Truck Centers of Illinois, Inc.	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	32.97
FinishMaster Inc	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	311.88
FleetPride Inc	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	395.64
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	56.58
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	392.96
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	19.71
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	53.57
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	431.64
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	172.05

Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	53.57
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	334.56
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	392.96
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	336.37
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	155.91
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	318.32
Elburn NAPA Inc (North Aurora)	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	425.97
Fifth Third Bank	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	116.67
AGSCO Corporation	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	382.00
Battery Service Corporation	Vehicle Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	124.50
JX Enterprises, Inc.	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	397.41
Lakeside International, LLC	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	436.94
Midwest Paving Equipment, Inc.	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	395.00
Priority Products, Inc.	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	22.61
Priority Products, Inc.	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	180.01
FinishMaster Inc	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	495.58
FinishMaster Inc	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	116.42
FinishMaster Inc	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	25.43
Elburn NAPA Inc (North Aurora)	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	375.40
Elburn NAPA Inc (North Aurora)	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	133.58
Elburn NAPA Inc (North Aurora)	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	54.96
Elburn NAPA Inc (North Aurora)	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	468.43
Elburn NAPA Inc (North Aurora)	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	52.02
Elburn NAPA Inc (North Aurora)	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	24.96
Elburn NAPA Inc (North Aurora)	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/14/2023	10.48
Elburn NAPA Inc (North Aurora)	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	64.50
Fifth Third Bank	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	757.80
FinishMaster Inc	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	495.58
FinishMaster Inc	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	79.92
Priority Products, Inc.	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	12.95
Priority Products, Inc.	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	78.38
Priority Products, Inc.	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	15.58
Standard Equipment Co	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	132.59
Suburban Propane	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	161.85
Arends Hogan Walker, LLC (AHW LLC)	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	126.26
Arends Hogan Walker, LLC (AHW LLC)	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	921.78
Arends Hogan Walker, LLC (AHW LLC)	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	1,605.55
EJ Equipment, Inc.	Equipment Parts/Supplies	Transportation	Motor Fuel Local Option	8/28/2023	641.44
Fifth Third Bank	Tools	Transportation	Motor Fuel Local Option	8/28/2023	179.00
Fritel & Asso. dba Diversified Product Development	Tools	Transportation	Motor Fuel Local Option	8/28/2023	5,196.00
Elmhurst Chicago Stone Company	Road Material	Transportation	Motor Fuel Local Option	8/14/2023	1,017.00
Elmhurst Chicago Stone Company	Road Material	Transportation	Motor Fuel Local Option	8/14/2023	4,617.00
Elmhurst Chicago Stone Company	Road Material	Transportation	Motor Fuel Local Option	8/14/2023	1,377.00
Elmhurst Chicago Stone Company	Road Material	Transportation	Motor Fuel Local Option	8/14/2023	651.00
H&H Electric Co.	Utilities- Intersect Lighting	Transportation	Motor Fuel Local Option	8/14/2023	11,756.36
H&H Electric Co.	Utilities- Intersect Lighting	Transportation	Motor Fuel Local Option	8/14/2023	15,444.88
H&H Electric Co.	Utilities- Intersect Lighting	Transportation	Motor Fuel Local Option	8/28/2023	15,444.88
H&H Electric Co.	Utilities- Intersect Lighting	Transportation	Motor Fuel Local Option	8/28/2023	325.07
Northern Contracting, Inc.	Road Construction	Transportation	Motor Fuel Local Option	8/28/2023	650,741.00
A-to-Be USA, LLC	Engineering Services	Transportation	Transportation Sales Tax	8/14/2023	61,639.52
Alfred Benesch & Co	Engineering Services	Transportation	Transportation Sales Tax	8/14/2023	35,866.96
Crawford Murphy & Tilly Inc (CMT)	Engineering Services	Transportation	Transportation Sales Tax	8/14/2023	18,712.71
Crawford Murphy & Tilly Inc (CMT)	Engineering Services	Transportation	Transportation Sales Tax	8/14/2023	1,176.14
Kimley-Horn & Associates, Inc.	Engineering Services	Transportation	Transportation Sales Tax	8/14/2023	3,218.64
Kimley-Horn & Associates, Inc.	Engineering Services	Transportation	Transportation Sales Tax	8/14/2023	11,382.30

Kimley-Horn & Associates, Inc.	Engineering Services	Transportation	Transportation Sales Tax	8/14/2023	38,195.99
Wight & Company	Engineering Services	Transportation	Transportation Sales Tax	8/28/2023	118,445.53
Wight & Company	Engineering Services	Transportation	Transportation Sales Tax	8/28/2023	81,574.61
Wight & Company	Engineering Services	Transportation	Transportation Sales Tax	8/28/2023	112,916.47
Wight & Company	Engineering Services	Transportation	Transportation Sales Tax	8/28/2023	140,674.83
Wight & Company	Engineering Services	Transportation	Transportation Sales Tax	8/28/2023	140,307.53
Alfred Benesch & Co	Engineering Services	Transportation	Transportation Sales Tax	8/28/2023	29,006.23
Applied Pavement Technology Inc	Engineering Services	Transportation	Transportation Sales Tax	8/28/2023	75,773.40
Burns & McDonnell Engineering Co	Engineering Services	Transportation	Transportation Sales Tax	8/28/2023	97,235.21
Christopher B. Burke Engineering, Ltd.	Engineering Services	Transportation	Transportation Sales Tax	8/28/2023	14,477.97
PACE Suburban Bus	External Grants	Transportation	Transportation Sales Tax	8/14/2023	9,875.42
Southwind Industries dba Bluff City Materials, Inc	Road Construction	Transportation	Transportation Sales Tax	8/28/2023	1,662,475.01
Berger Excavating Contractors, Inc. dba Berger Con	Bridge Construction	Transportation	Transportation Sales Tax	8/28/2023	99,239.70
Chicago Title Company, LLC	Highway Right of Way	Transportation	Transportation Sales Tax	8/14/2023	925.00
Krystyna Trzaska	Highway Right of Way	Transportation	Transportation Sales Tax	8/14/2023	19,500.00
Slawomir Trzaska	Highway Right of Way	Transportation	Transportation Sales Tax	8/28/2023	19,500.00
JCC Realty LLC	Highway Right of Way	Transportation	Transportation Sales Tax	8/28/2023	785.78
JCC Realty LLC	Highway Right of Way	Transportation	Transportation Sales Tax	8/28/2023	4,127.38
JCC Realty LLC	Highway Right of Way	Transportation	Transportation Sales Tax	8/28/2023	2,712.98
JCC Realty LLC	Highway Right of Way	Transportation	Transportation Sales Tax	8/28/2023	1,877.58
Daniel B. Light	Highway Right of Way	Transportation	Transportation Sales Tax	8/28/2023	160,000.00
BCP Realty LLC	Highway Right of Way	Transportation	Transportation Sales Tax	8/28/2023	785.77
BCP Realty LLC	Highway Right of Way	Transportation	Transportation Sales Tax	8/28/2023	4,127.38
BCP Realty LLC	Highway Right of Way	Transportation	Transportation Sales Tax	8/28/2023	2,712.99
BCP Realty LLC	Highway Right of Way	Transportation	Transportation Sales Tax	8/28/2023	1,877.59
Dominick's Pizzeria Inc	Food Permits	Health	County Health	8/14/2023	641.25
Flavia Guzman	Food Permits	Health	County Health	8/14/2023	735.00
Rodolfo Nunez	Food Permits	Health	County Health	8/14/2023	303.00
George Torrens	Food Permits	Health	County Health	8/14/2023	482.00
Primo's Food Mart Inc.	Food Permits	Health	County Health	8/28/2023	1,207.50
Quarters Concessions	Food Permits	Health	County Health	8/28/2023	330.00
North American Midway	Food Permits	Health	County Health	8/28/2023	660.00
Propio LS, LLC	Contractual/Consulting Services	Health	County Health	8/14/2023	828.09
Propio LS, LLC	Contractual/Consulting Services	Health	County Health	8/14/2023	75.00
Propio LS, LLC	Contractual/Consulting Services	Health	County Health	8/14/2023	75.00
Propio LS, LLC	Contractual/Consulting Services	Health	County Health	8/14/2023	307.94
Propio LS, LLC	Contractual/Consulting Services	Health	County Health	8/14/2023	75.00
Propio LS, LLC	Contractual/Consulting Services	Health	County Health	8/14/2023	677.21
MB Super Holdco, Inc. dba Abila, Inc.	Contractual/Consulting Services	Health	County Health	8/14/2023	91.94
MB Super Holdco, Inc. dba Abila, Inc.	Contractual/Consulting Services	Health	County Health	8/14/2023	625.00
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	5,812.00
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	6,125.00
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	1,058.24
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	139.20
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	1,624.00
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	1,522.50
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	1,522.50
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	8,000.00
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/28/2023	1,624.00
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/28/2023	1,624.00
Propio LS, LLC	Contractual/Consulting Services	Health	County Health	8/28/2023	75.00
MedPro Waste Disposal LLC	Disposal and Water Softener Srvs	Health	County Health	8/14/2023	60.64
Shred-it USA LLC (Cintas Document Destruction)	Disposal and Water Softener Srvs	Health	County Health	8/14/2023	106.93
Shred-it USA LLC (Cintas Document Destruction)	Disposal and Water Softener Srvs	Health	County Health	8/28/2023	80.40
Shred-it USA LLC (Cintas Document Destruction)	Disposal and Water Softener Srvs	Health	County Health	8/28/2023	106.93

Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Health	County Health	8/14/2023	171.50
Peterson Cleaning, Inc. (PCI Services, Inc.)	Janitorial Services	Health	County Health	8/28/2023	214.25
Midwest Environmental Consulting Services, Inc.	Repairs and Maint- Buildings	Health	County Health	8/14/2023	1,115.00
Cipher Technology Solutions Inc (CTS of Illinois)	Repairs and Maint- Buildings	Health	County Health	8/14/2023	622.18
Cipher Technology Solutions Inc (CTS of Illinois)	Repairs and Maint- Buildings	Health	County Health	8/28/2023	977.72
Fifth Third Bank	Repairs and Maint- Vehicles	Health	County Health	8/28/2023	659.84
Gordon Flesch Company Inc	Repairs and Maint- Office Equip	Health	County Health	8/14/2023	209.00
Toshiba America Business Solutions Inc	Repairs and Maint- Office Equip	Health	County Health	8/14/2023	17.63
Toshiba America Business Solutions Inc	Repairs and Maint- Office Equip	Health	County Health	8/14/2023	9.49
Toshiba America Business Solutions Inc	Repairs and Maint- Office Equip	Health	County Health	8/14/2023	31.70
Toshiba America Business Solutions Inc	Repairs and Maint- Office Equip	Health	County Health	8/14/2023	10.89
Toshiba America Business Solutions Inc	Repairs and Maint- Office Equip	Health	County Health	8/14/2023	27.37
Toshiba America Business Solutions Inc	Repairs and Maint- Office Equip	Health	County Health	8/14/2023	4.55
Toshiba America Business Solutions Inc	Repairs and Maint- Office Equip	Health	County Health	8/28/2023	2.57
Toshiba America Business Solutions Inc	Repairs and Maint- Office Equip	Health	County Health	8/28/2023	11.51
Impact Networking, LLC	Repairs and Maint- Office Equip	Health	County Health	8/28/2023	476.30
Impact Networking, LLC	Repairs and Maint- Office Equip	Health	County Health	8/28/2023	84.70
Century Springs/Ove Water Services	Operating Supplies	Health	County Health	8/14/2023	129.99
Century Springs/Ove Water Services	Operating Supplies	Health	County Health	8/14/2023	22.15
WEX BANK	Fuel- Vehicles	Health	County Health	8/14/2023	451.16
WEX BANK	Fuel- Vehicles	Health	County Health	8/28/2023	322.22
Insight Public Sector Inc	Operating Supplies	Health	County Health	8/14/2023	234.00
ADAPCO	Operating Supplies	Health	County Health	8/14/2023	2,161.44
Roskuszka & Sons dba Wallys Printing	Operating Supplies	Health	County Health	8/28/2023	50.00
Open Text Inc	Contractual/Consulting Services	Health	County Health	8/28/2023	1,500.00
Burnidge Properties Ltd	Building Space Rental	Health	County Health	8/14/2023	1,439.87
Kristin Johnson	Employee Mileage Expense	Health	County Health	8/14/2023	36.68
Colleen R Nyland	Employee Mileage Expense	Health	County Health	8/14/2023	278.38
Colleen R Nyland	Employee Mileage Expense	Health	County Health	8/28/2023	310.50
Erin Rauscher	Employee Mileage Expense	Health	County Health	8/28/2023	118.16
William Thwaits	Employee Mileage Expense	Health	County Health	8/28/2023	96.32
William Thwaits	Employee Mileage Expense	Health	County Health	8/28/2023	43.91
Julia Vigil	Employee Mileage Expense	Health	County Health	8/28/2023	35.39
Maria E. Almanza	Employee Mileage Expense	Health	County Health	8/28/2023	75.98
Warehouse Direct, Inc.	Operating Supplies	Health	County Health	8/28/2023	498.59
Constellation NewEnergy Inc.	Utilities- Electric	Health	County Health	8/14/2023	138.86
Mitchell & McCormick, Inc	Contractual/Consulting Services	Health	County Health	8/14/2023	350.00
Mitchell & McCormick, Inc	Contractual/Consulting Services	Health	County Health	8/28/2023	350.00
Diane Dawson	Conferences and Meetings	Health	County Health	8/14/2023	40.00
Diane Dawson	Conferences and Meetings	Health	County Health	8/14/2023	30.00
Fifth Third Bank	Conferences and Meetings	Health	County Health	8/28/2023	369.04
Cheryl Kane	Employee Mileage Expense	Health	County Health	8/14/2023	66.61
Dreyer Medical Clinic	Contractual/Consulting Services	Health	County Health	8/14/2023	2,000.00
World Wide Dictation Services of New York	Contractual/Consulting Services	Health	County Health	8/14/2023	40.56
Emily Cole	Contractual/Consulting Services	Health	County Health	8/14/2023	100.00
Companeros en Salud	Contractual/Consulting Services	Health	County Health	8/14/2023	50.00
Fifth Third Bank	Operating Supplies	Health	County Health	8/28/2023	69.96
Fifth Third Bank	Contractual/Consulting Services	Health	County Health	8/28/2023	475.00
KPMG LLP	Contractual/Consulting Services	Health	County Health	8/14/2023	112,376.35
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	941.22
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	1,568.70
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	1,296.88
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	1,452.50
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	1,568.70
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	1,568.70

Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	1,568.70
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	1,186.07
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/14/2023	1,452.50
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/28/2023	1,624.00
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/28/2023	1,568.70
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/28/2023	1,210.14
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/28/2023	1,479.06
Peloton Inc dba Frank's Employment	Contractual/Consulting Services	Health	County Health	8/28/2023	1,369.50
KPMG LLP	Contractual/Consulting Services	Health	County Health	8/28/2023	122,140.02
Fifth Third Bank	Employee Training	Health	County Health	8/28/2023	190.40
Advocate Sherman Hospital	Operating Supplies	Health	County Health	8/28/2023	5,000.00
Fifth Third Bank	Operating Supplies	Health	County Health	8/28/2023	2,771.15
Mozart Holdings, LP dba Medline Industries, LP	Operating Supplies	Health	County Health	8/14/2023	1,108.43
Illinois State Board of Education	Kane Kares- ISBE Grant	Health	Kane Kares	8/28/2023	15,722.00
Kristina Brown	Employee Mileage Expense	Health	Kane Kares	8/14/2023	133.64
Andrene M. O'Leary	Employee Mileage Expense	Health	Kane Kares	8/14/2023	32.23
Lisa Bloom	Employee Mileage Expense	Health	Kane Kares	8/28/2023	21.35
Roskuszka & Sons dba Wallys Printing	Operating Supplies	Health	Kane Kares	8/28/2023	293.00
Isabel Garcia	Employee Mileage Expense	Health	Kane Kares	8/14/2023	16.44
Burnidge Properties Ltd	Building Space Rental	Health	Kane Kares	8/14/2023	2,382.42
Fifth Third Bank	Employee Training	Health	Kane Kares	8/28/2023	533.72
Regents of University of Colorado	Employee Training	Health	Kane Kares	8/28/2023	770.00
Family Counseling Services of Aurora	External Grants	Other- Countywide Expenses	American Rescue Plan	8/25/2023	85,000.00
Open Door Health Center of Illinois	External Grants	Other- Countywide Expenses	American Rescue Plan	8/25/2023	8,469.06
TriCity Family Services	External Grants	Other- Countywide Expenses	American Rescue Plan	8/25/2023	100,000.00
Ernst & Young U.S. LLP	Contractual/Consulting Services	Other- Countywide Expenses	American Rescue Plan	8/14/2023	73,291.40
Ernst & Young U.S. LLP	Contractual/Consulting Services	Other- Countywide Expenses	American Rescue Plan	8/14/2023	59,759.90
Ernst & Young U.S. LLP	Contractual/Consulting Services	Other- Countywide Expenses	FEMA PA Administration	8/14/2023	2,003.10
Fifth Third Bank	Employee Training	Veterans' Commission	Veterans' Commission	8/28/2023	350.00
Nicholas N. Steele	Employee Mileage Expense	Veterans' Commission	Veterans' Commission	8/14/2023	105.98
Fifth Third Bank	Office Supplies	Veterans' Commission	Veterans' Commission	8/28/2023	38.99
Fifth Third Bank	Conferences and Meetings	Information Technologies	IL Counties Information Mgmt	8/28/2023	24.00
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	Information Technologies	Web Technical Services	8/14/2023	756.00
Cassie Design	Contractual/Consulting Services	Information Technologies	Web Technical Services	8/28/2023	2,475.00
Fifth Third Bank	Contractual/Consulting Services	Information Technologies	Web Technical Services	8/28/2023	110.27
Fox Valley United Way	Contractual/Consulting Services	Information Technologies	Web Technical Services	8/28/2023	30,000.00
Insight Public Sector Inc	Software Licensing Cost	Information Technologies	Web Technical Services	8/14/2023	42,100.00
Gilmore Marketing Concepts, Inc. dba GMCI Creative	Contractual/Consulting Services	Development	Economic Development	8/14/2023	6,000.00
JEG 360, LLC	Contractual/Consulting Services	Development	Economic Development	8/14/2023	2,400.00
JEG 360, LLC	Contractual/Consulting Services	Development	Economic Development	8/14/2023	5,298.00
JEG 360, LLC	Contractual/Consulting Services	Development	Economic Development	8/14/2023	7,290.00
Paddock Publications (Daily Herald)	Contractual/Consulting Services	Development	Economic Development	8/14/2023	98.90
RW Ventures, LLC	Contractual/Consulting Services	Development	Economic Development	8/14/2023	50,000.00
Old Republic-MN ARP	Workers Compensation	Development	Community Dev Block Program	8/28/2023	98.80
Habitat for Humanity of Northern Fox Valley	Miscellaneous Contractual Exp	Development	Community Dev Block Program	8/14/2023	84,000.00
Spillane and Sons Ltd.	Miscellaneous Contractual Exp	Development	Community Dev Block Program	8/28/2023	137,107.46
Spillane and Sons Ltd.	Miscellaneous Contractual Exp	Development	Community Dev Block Program	8/28/2023	68,650.00
Fifth Third Bank	Office Supplies	Development	Community Dev Block Program	8/28/2023	378.46
Old Republic-MN ARP	Workers Compensation	Development	HOME Program	8/28/2023	26.60
Fifth Third Bank	Office Supplies	Development	HOME Program	8/28/2023	65.05
Conservation Foundation	Contractual/Consulting Services	Development	Cost Share Drainage	8/28/2023	600.00
Optimum Management Resources, Inc.	Contractual/Consulting Services	Development	Continuum of Care Planning Grant	8/14/2023	3,200.00
Old Republic-MN ARP	Workers Compensation	Development	Elgin CDBG	8/28/2023	79.80
Fifth Third Bank	Office Supplies	Development	Elgin CDBG	8/28/2023	97.57
Old Republic-MN ARP	Workers Compensation	Development	Emergency Rental Assistance #2	8/28/2023	140.60

Tisa M. Baum	Employee Mileage Expense	Development	Emergency Rental Assistance #2	8/14/2023	24.24
Tisa M. Baum	Employee Mileage Expense	Development	Emergency Rental Assistance #2	8/28/2023	59.10
Courtney Spears	Employee Mileage Expense	Development	Emergency Rental Assistance #2	8/28/2023	66.36
Courtney Spears	Employee Mileage Expense	Development	Emergency Rental Assistance #2	8/28/2023	15.20
Aurora Heights Apartments LLC	Miscellaneous Contractual Exp	Development	Emergency Rental Assistance #2	8/28/2023	985.00
Aurora Heights Apartments LLC	Miscellaneous Contractual Exp	Development	Emergency Rental Assistance #2	8/28/2023	985.00
Aurora Heights Apartments LLC	Miscellaneous Contractual Exp	Development	Emergency Rental Assistance #2	8/28/2023	880.00
Fifth Third Bank	Office Supplies	Development	Emergency Rental Assistance #2	8/28/2023	354.94
Old Republic-MN ARP	Workers Compensation	Development	CDBG-CV	8/28/2023	19.00
Tisa M. Baum	Employee Mileage Expense	Development	Home - ARP	8/28/2023	46.24
Tisa M. Baum	Employee Mileage Expense	Development	Home - ARP	8/28/2023	16.52
Tisa M. Baum	Employee Mileage Expense	Development	Home - ARP	8/28/2023	256.38
Courtney Spears	Employee Mileage Expense	Development	Home - ARP	8/28/2023	152.30
Courtney Spears	Employee Mileage Expense	Development	Home - ARP	8/28/2023	188.44
Spencer J. Anderson	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	1,780.00
Asumoni Property Management LLC	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	1,000.00
Mary Hager-Swanson	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	605.00
Paul N Schmolke dba Weststar Industries LLC	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	1,600.00
Preferred Home Realty (DBA Preferred Management)	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	650.00
Preferred Home Realty (DBA Preferred Management)	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	1,000.00
Preferred Home Realty (DBA Preferred Management)	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	950.00
Preferred Home Realty (DBA Preferred Management)	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	1,000.00
Preferred Home Realty (DBA Preferred Management)	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	900.00
Scott R. Woeppel dba Elgin Rental Properties, LLC	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	850.00
Edward R. Swierbinski	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	1,600.00
Edward R. Swierbinski	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	1,600.00
Tongs Brother Inc	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	850.00
Tongs Brother Inc	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	1,030.00
Tongs Brother Inc	Miscellaneous Contractual Exp	Development	Home - ARP	8/28/2023	440.00
Pale Blue Dot, LLC	Contractual/Consulting Services	Environmental Management	Elec Agg Civic Contribution	8/28/2023	1,306.67
JADE Hanna Surveyors	Contractual/Consulting Services	County Board	Farmland Preservation	8/14/2023	2,400.00
JADE Hanna Surveyors	Contractual/Consulting Services	County Board	Farmland Preservation	8/14/2023	4,800.00
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	County Board	Farmland Preservation	8/14/2023	315.00
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	County Board	Farmland Preservation	8/14/2023	252.00
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	County Board	Farmland Preservation	8/14/2023	315.00
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	County Board	Farmland Preservation	8/14/2023	315.00
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	County Board	Farmland Preservation	8/28/2023	315.00
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	County Board	Farmland Preservation	8/28/2023	315.00
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	County Board	Farmland Preservation	8/28/2023	315.00
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	County Board	Farmland Preservation	8/28/2023	315.00
Special Project Staffing dba The Salem Group	Contractual/Consulting Services	County Board	Farmland Preservation	8/28/2023	252.00
Fifth Third Bank	Conferences and Meetings	County Board	Farmland Preservation	8/28/2023	774.50
Gilmore Marketing Concepts, Inc. dba GMCI Creative	Contractual/Consulting Services	Development	Growing for Kane	8/14/2023	5,179.45
Batavia Enterprises, Inc	Prepaid Expense		Workforce Development	8/28/2023	19,599.78
County of Kendall	Prepaid Expense		Workforce Development	8/28/2023	800.00
Jeffrey W. Richardson	Prepaid Expense		Workforce Development	8/28/2023	3,144.51
Diane Turner	Employee Mileage Expense	- WIOA 22	Workforce Development	8/14/2023	15.72
Fifth Third Bank	Office Supplies	- WIOA 22	Workforce Development	8/28/2023	383.99
Impact Networking, LLC	Office Supplies	- WIOA 22	Workforce Development	8/28/2023	143.79
Warehouse Direct, Inc.	Office Supplies	- WIOA 22	Workforce Development	8/28/2023	137.90
Warehouse Direct, Inc.	Office Supplies	- WIOA 22	Workforce Development	8/28/2023	6.96
Fifth Third Bank	Office Supplies	- WIOA 22	Workforce Development	8/28/2023	34.99
Fifth Third Bank	Software Licensing Cost	- WIOA 22	Workforce Development	8/28/2023	48.26
Business and Career Services Incorporated	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/14/2023	4,382.01
Business and Career Services Incorporated	Work Based Learning Activities	- WIOA 22	Workforce Development	8/14/2023	1,861.89

Fifth Third Bank	Office Supplies	- WIOA 22	Workforce Development	8/28/2023	65.71
Elgin Community College	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/28/2023	135.00
Elgin Community College	Work Based Learning Activities	- WIOA 22	Workforce Development	8/28/2023	2,235.83
Elgin Community College	Youth Supportive Services	- WIOA 22	Workforce Development	8/28/2023	200.32
Grundy-Kendall Regional Office of Education	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/14/2023	1,067.66
Grundy-Kendall Regional Office of Education	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/28/2023	1,004.87
Grundy-Kendall Regional Office of Education	Work Based Learning Activities	- WIOA 22	Workforce Development	8/14/2023	843.92
Grundy-Kendall Regional Office of Education	Work Based Learning Activities	- WIOA 22	Workforce Development	8/28/2023	1,062.68
Grundy-Kendall Regional Office of Education	Youth Supportive Services	- WIOA 22	Workforce Development	8/28/2023	30.00
Fifth Third Bank	Software Licensing Cost	- WIOA 22	Workforce Development	8/28/2023	144.78
Business and Career Services Incorporated	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/14/2023	3,952.67
Central States SER, Jobs for Progress, Inc.	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/14/2023	9,999.78
National Youth Advocate Program, Inc.	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/14/2023	2,385.97
Parents Alliance Employment Project	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/28/2023	4,007.39
Business and Career Services Incorporated	Work Based Learning Activities	- WIOA 22	Workforce Development	8/14/2023	2,241.58
Central States SER, Jobs for Progress, Inc.	Work Based Learning Activities	- WIOA 22	Workforce Development	8/14/2023	3,811.03
Parents Alliance Employment Project	Work Based Learning Activities	- WIOA 22	Workforce Development	8/28/2023	12,043.22
Central States SER, Jobs for Progress, Inc.	Youth Supportive Services	- WIOA 22	Workforce Development	8/14/2023	30.96
Parents Alliance Employment Project	Youth Supportive Services	- WIOA 22	Workforce Development	8/28/2023	235.20
Business and Career Services Incorporated	YOUTH OJT	- WIOA 22	Workforce Development	8/14/2023	6,320.63
Central States SER, Jobs for Progress, Inc.	Academic/Pre-Vocational Services	- WIOA 22	Workforce Development	8/14/2023	71.94
Fifth Third Bank	Office Supplies	- WIOA 22	Workforce Development	8/28/2023	197.11
Kishwaukee College	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/28/2023	9,420.35
Kishwaukee College	Work Based Learning Activities	- WIOA 22	Workforce Development	8/28/2023	8,255.97
Kishwaukee College	Youth ITA	- WIOA 22	Workforce Development	8/28/2023	7,791.37
Kishwaukee College	Youth Supportive Services	- WIOA 22	Workforce Development	8/28/2023	3,150.00
Elgin Community College	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/28/2023	9,258.56
Elgin Community College	Work Based Learning Activities	- WIOA 22	Workforce Development	8/28/2023	10,217.82
Elgin Community College	Youth ITA	- WIOA 22	Workforce Development	8/28/2023	8,011.00
Elgin Community College	Youth Supportive Services	- WIOA 22	Workforce Development	8/28/2023	892.32
Grundy-Kendall Regional Office of Education	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/14/2023	4,542.70
Grundy-Kendall Regional Office of Education	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/28/2023	4,480.50
Grundy-Kendall Regional Office of Education	Work Based Learning Activities	- WIOA 22	Workforce Development	8/14/2023	1,275.81
Grundy-Kendall Regional Office of Education	Work Based Learning Activities	- WIOA 22	Workforce Development	8/28/2023	1,965.45
Grundy-Kendall Regional Office of Education	Youth Supportive Services	- WIOA 22	Workforce Development	8/14/2023	647.78
Grundy-Kendall Regional Office of Education	Youth Supportive Services	- WIOA 22	Workforce Development	8/28/2023	427.95
Grundy-Kendall Regional Office of Education	Academic/Pre-Vocational Services	- WIOA 22	Workforce Development	8/28/2023	360.00
Aplus System, LLC	Janitorial Services	- WIOA 22	Workforce Development	8/14/2023	93.24
Amanda Weinreis	Employee Mileage Expense	- WIOA 22	Workforce Development	8/14/2023	20.44
Lindsay Hutchins	Employee Mileage Expense	- WIOA 22	Workforce Development	8/28/2023	38.51
Roberto D. Rivera	Employee Mileage Expense	- WIOA 22	Workforce Development	8/28/2023	117.59
APS Training Inst., Inc. dba APS Training Academy	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/28/2023	137.50
Employment & Employer Services, Inc.	Work Based Learning Activities	- WIOA 22	Workforce Development	8/28/2023	10,271.31
Fifth Third Bank	Internet	- WIOA 22	Workforce Development	8/28/2023	71.98
Symbol Training Institute	DT ITA	- WIOA 22	Workforce Development	8/14/2023	10,000.00
Alpha Truck Driving School Inc	DT ITA	- WIOA 22	Workforce Development	8/14/2023	4,999.00
CDL America, Inc.	DT ITA	- WIOA 22	Workforce Development	8/14/2023	6,072.00
CDL America, Inc.	DT ITA	- WIOA 22	Workforce Development	8/14/2023	5,175.00
Rasmussen College	DT ITA	- WIOA 22	Workforce Development	8/14/2023	3,125.00
Rock Gate Capital, LLC (dba 160 Driving Academy)	DT ITA	- WIOA 22	Workforce Development	8/28/2023	5,413.00
Sapphire Ingram	DT ITA	- WIOA 22	Workforce Development	8/28/2023	362.00
Board of Trustees of Illinois State University	DT ITA	- WIOA 22	Workforce Development	8/28/2023	4,551.30
West Chicago Professional Center, Inc.	DT ITA	- WIOA 22	Workforce Development	8/28/2023	4,950.00
West Chicago Professional Center, Inc.	DT ITA	- WIOA 22	Workforce Development	8/28/2023	5,000.00
West Chicago Professional Center, Inc.	DT ITA	- WIOA 22	Workforce Development	8/28/2023	5,000.00

Via Carlita, LLC dba Hawk Ford of St. Charles	DT OJT (On the Job Training)	- WIOA 22	Workforce Development	8/14/2023	12,480.00
Dynamic Works Institute	DT Job Readiness Training	- WIOA 22	Workforce Development	8/28/2023	3,017.92
Dynamic Works Institute	DT Job Readiness Training	- WIOA 22	Workforce Development	8/28/2023	7,590.52
Erik Acevedo	SS Transportation Assistance	- WIOA 22	Workforce Development	8/14/2023	176.85
Erik Acevedo	SS Transportation Assistance	- WIOA 22	Workforce Development	8/28/2023	212.22
National Youth Advocate Program, Inc.	SS Other Supportive Services	- WIOA 22	Workforce Development	8/14/2023	803.01
Waubonsee Community College	SS Other Supportive Services	- WIOA 22	Workforce Development	8/14/2023	46.45
Antoinette Tirado	SS Other Supportive Services	- WIOA 22	Workforce Development	8/28/2023	399.00
Antoinette Tirado	SS Other Supportive Services	- WIOA 22	Workforce Development	8/28/2023	399.00
Midwest Safe Driver LLC	DT ITA	- WIOA 22	Workforce Development	8/14/2023	4,920.00
Northern Illinois University	DT ITA	- WIOA 22	Workforce Development	8/14/2023	4,349.94
Northern Illinois University	DT ITA	- WIOA 22	Workforce Development	8/14/2023	577.64
Rasmussen College	DT ITA	- WIOA 22	Workforce Development	8/14/2023	2,000.00
Shanta Faulkner	SS Transportation Assistance	- WIOA 22	Workforce Development	8/14/2023	251.52
Shanta Faulkner	SS Transportation Assistance	- WIOA 22	Workforce Development	8/14/2023	125.76
Shanta Faulkner	SS Transportation Assistance	- WIOA 22	Workforce Development	8/28/2023	347.41
Board of Trustees Eastern Illinois University	DT ITA	- WIOA 22	Workforce Development	8/14/2023	2,501.88
Wolf Driving School, Inc.	DT ITA	- WIOA 22	Workforce Development	8/14/2023	6,836.50
Mechanics Local 701 Training Fund	DT ITA	- WIOA 22	Workforce Development	8/14/2023	605.00
Mechanics Local 701 Training Fund	DT ITA	- WIOA 22	Workforce Development	8/14/2023	1,200.00
Mechanics Local 701 Training Fund	DT ITA	- WIOA 22	Workforce Development	8/28/2023	4,814.28
Mechanics Local 701 Training Fund	DT ITA	- WIOA 22	Workforce Development	8/28/2023	1,487.50
Mechanics Local 701 Training Fund	DT ITA	- WIOA 22	Workforce Development	8/28/2023	900.00
Rock Gate Capital, LLC (dba 160 Driving Academy)	DT ITA	- WIOA 22	Workforce Development	8/28/2023	5,488.00
West Chicago Professional Center, Inc.	DT ITA	- WIOA 22	Workforce Development	8/28/2023	5,000.00
West Chicago Professional Center, Inc.	DT ITA	- WIOA 22	Workforce Development	8/28/2023	5,000.00
Wolf Driving School, Inc.	DT ITA	- WIOA 22	Workforce Development	8/28/2023	6,237.00
Elgin Community College	DT ITA	- WIOA 22	Workforce Development	8/28/2023	983.20
Elgin Community College	DT Class Size Training	- WIOA 22	Workforce Development	8/14/2023	5,974.05
Elgin Community College	SS Transportation Assistance	- WIOA 22	Workforce Development	8/14/2023	200.16
Lydia Nevaeh Flores	SS Transportation Assistance	- WIOA 22	Workforce Development	8/14/2023	30.13
Sebastian Negron	SS Transportation Assistance	- WIOA 22	Workforce Development	8/14/2023	38.90
Sebastian Negron	SS Transportation Assistance	- WIOA 22	Workforce Development	8/28/2023	38.90
Sebastian Negron	SS Transportation Assistance	- WIOA 22	Workforce Development	8/28/2023	38.90
Lydia Nevaeh Flores	SS Transportation Assistance	- WIOA 22	Workforce Development	8/28/2023	90.39
Cheryl Weiler	Employee Mileage Expense	- WIOA 22	Workforce Development	8/28/2023	96.47
Microtrain Technologies	DT ITA	- WIOA 22	Workforce Development	8/14/2023	4,055.00
Rasmussen College	DT ITA	- WIOA 22	Workforce Development	8/14/2023	3,125.00
Rasmussen College	DT ITA	- WIOA 22	Workforce Development	8/14/2023	1,702.58
Rasmussen College	DT ITA	- WIOA 22	Workforce Development	8/14/2023	1,923.00
Waubonsee Community College	DT ITA	- WIOA 22	Workforce Development	8/28/2023	1,220.35
Microtrain Technologies	DT ITA	- WIOA 22	Workforce Development	8/28/2023	7,985.00
Adtalem Global Eductn dba Chamberlain University	DT ITA	- WIOA 22	Workforce Development	8/28/2023	600.00
Aplus System, LLC	Janitorial Services	- WIOA 22	Workforce Development	8/14/2023	139.86
Amanda Weinreis	Employee Mileage Expense	- WIOA 22	Workforce Development	8/14/2023	18.86
Lindsay Hutchins	Employee Mileage Expense	- WIOA 22	Workforce Development	8/28/2023	40.09
Roberto D. Rivera	Employee Mileage Expense	- WIOA 22	Workforce Development	8/28/2023	127.38
APS Training Inst., Inc. dba APS Training Academy	Miscellaneous Contractual Exp	- WIOA 22	Workforce Development	8/28/2023	137.50
Employment & Employer Services, Inc.	Work Based Learning Activities	- WIOA 22	Workforce Development	8/28/2023	15,406.98
Fifth Third Bank	Internet	- WIOA 22	Workforce Development	8/28/2023	107.97
Rasmussen College	DT ITA	- WIOA 22	Workforce Development	8/14/2023	1,657.00
Rock Gate Capital, LLC (dba 160 Driving Academy)	DT ITA	- WIOA 22	Workforce Development	8/14/2023	5,488.00
Rock Gate Capital, LLC (dba 160 Driving Academy)	DT ITA	- WIOA 22	Workforce Development	8/28/2023	5,488.00
Rock Gate Capital, LLC (dba 160 Driving Academy)	DT ITA	- WIOA 22	Workforce Development	8/28/2023	5,488.00
Waubonsee Community College	DT ITA	- WIOA 22	Workforce Development	8/28/2023	1,543.00

Dynamic Works Institute	DT Job Readiness Training	- WIOA 22	Workforce Development	8/28/2023	6,127.28
Dynamic Works Institute	DT Job Readiness Training	- WIOA 22	Workforce Development	8/28/2023	1,554.68
National Youth Advocate Program, Inc.	SS Other Supportive Services	- WIOA 22	Workforce Development	8/14/2023	1,630.34
Rock Gate Capital, LLC (dba 160 Driving Academy)	DT ITA	- WIOA 22	Workforce Development	8/14/2023	5,488.00
Waubonsee Community College	DT ITA	- WIOA 22	Workforce Development	8/28/2023	399.20
Waubonsee Community College	DT ITA	- WIOA 22	Workforce Development	8/28/2023	6.68
Microtrain Technologies	DT ITA	- WIOA 22	Workforce Development	8/28/2023	4,530.00
Elgin Community College	DT ITA	- WIOA 22	Workforce Development	8/28/2023	1,029.50
Microtrain Technologies	DT ITA	- WIOA 22	Workforce Development	8/28/2023	4,160.00
Elgin Community College	DT Class Size Training	- WIOA 22	Workforce Development	8/14/2023	4,974.04
Cheryl Weiler	Employee Mileage Expense	- WIOA 22	Workforce Development	8/28/2023	72.77
Microtrain Technologies	DT ITA	- WIOA 22	Workforce Development	8/28/2023	3,095.00
Waubonsee Community College	DT ITA	- WIOA 22	Workforce Development	8/28/2023	475.50
E J Rohn Company dba Specialty Mat Service	Professional Services	Operating Pool	Workforce Development	8/14/2023	30.51
E J Rohn Company dba Specialty Mat Service	Professional Services	Operating Pool	Workforce Development	8/14/2023	30.51
Fifth Third Bank	Professional Services	Operating Pool	Workforce Development	8/28/2023	57.09
Aplus System, LLC	Janitorial Services	Operating Pool	Workforce Development	8/14/2023	1,207.19
Toshiba America Business Solutions Inc	Repairs and Maint- Copiers	Operating Pool	Workforce Development	8/28/2023	308.06
Warehouse Direct, Inc.	Office Supplies	Operating Pool	Workforce Development	8/14/2023	120.78
Warehouse Direct, Inc.	Office Supplies	Operating Pool	Workforce Development	8/14/2023	379.78
Data Recognition Corporation- DRC	Office Supplies	Operating Pool	Workforce Development	8/14/2023	502.15
Fifth Third Bank	Office Supplies	Operating Pool	Workforce Development	8/28/2023	891.75
Nicor Gas	Utilities- Natural Gas	Operating Pool	Workforce Development	8/14/2023	49.77
Nicor Gas	Utilities- Natural Gas	Operating Pool	Workforce Development	8/14/2023	25.50
City of Batavia	Utilities- Electric	Operating Pool	Workforce Development	8/28/2023	81.47
Fifth Third Bank	Telephone	Operating Pool	Workforce Development	8/28/2023	24.96
Fifth Third Bank	Internet	Operating Pool	Workforce Development	8/28/2023	285.35
Kruis Inc (Sparkle Janiotorial Service)	Janitorial Services	Operating Pool	Workforce Development	8/14/2023	1,250.00
Fifth Third Bank	Office Supplies	Operating Pool	Workforce Development	8/28/2023	5.69
Warehouse Direct, Inc.	Office Supplies	Operating Pool	Workforce Development	8/28/2023	236.10
Nicor Gas	Utilities- Natural Gas	Operating Pool	Workforce Development	8/14/2023	50.49
ComEd	Utilities- Electric	Operating Pool	Workforce Development	8/14/2023	151.46
Fifth Third Bank	Telephone	Operating Pool	Workforce Development	8/28/2023	64.85
Fifth Third Bank	Internet	Operating Pool	Workforce Development	8/28/2023	264.85
MCI	Telephone	Operating Pool	Workforce Development	8/28/2023	46.64
Fifth Third Bank	Internet	Operating Pool	Workforce Development	8/28/2023	169.90
Fifth Third Bank	Software Licensing Cost	One-Stop shared costs	Workforce Development	8/28/2023	337.88
E J Rohn Company dba Specialty Mat Service	Professional Services	One-Stop shared costs	Workforce Development	8/14/2023	29.06
E J Rohn Company dba Specialty Mat Service	Professional Services	One-Stop shared costs	Workforce Development	8/14/2023	29.06
Fifth Third Bank	Professional Services	One-Stop shared costs	Workforce Development	8/28/2023	54.37
Aplus System, LLC	Janitorial Services	One-Stop shared costs	Workforce Development	8/14/2023	1,149.71
Kelly Ann Waynauskas	Employee Mileage Expense	One-Stop shared costs	Workforce Development	8/14/2023	116.33
Kelly Ann Waynauskas	Employee Mileage Expense	One-Stop shared costs	Workforce Development	8/28/2023	89.89
Tara Crosby	Employee Mileage Expense	One-Stop shared costs	Workforce Development	8/28/2023	35.57
Fifth Third Bank	Office Supplies	One-Stop shared costs	Workforce Development	8/28/2023	29.72
Impact Networking, LLC	Office Supplies	One-Stop shared costs	Workforce Development	8/28/2023	23.41
Nicor Gas	Utilities- Natural Gas	One-Stop shared costs	Workforce Development	8/14/2023	24.28
City of Batavia	Utilities- Electric	One-Stop shared costs	Workforce Development	8/28/2023	77.60
Fifth Third Bank	Telephone	One-Stop shared costs	Workforce Development	8/28/2023	23.77
Fifth Third Bank	Internet	One-Stop shared costs	Workforce Development	8/28/2023	271.77
Fifth Third Bank	Communication/Web Host	One-Stop shared costs	Workforce Development	8/28/2023	41.00
Kelly Ann Waynauskas	Employee Mileage Expense	One-Stop Operator	Workforce Development	8/14/2023	44.61
National Youth Advocate Program, Inc.	Miscellaneous Contractual Exp	WDD Riverboat	Workforce Development	8/14/2023	829.90
National Youth Advocate Program, Inc.	Miscellaneous Contractual Exp	WDD Riverboat	Workforce Development	8/14/2023	7,157.91
Fifth Third Bank	Computers	Other- Countywide Expenses	Capital Projects	8/28/2023	8,159.57

Healy, Bender, Patton, & Been Architects	Contractual/Consulting Services	Other- Countywide Expenses	Capital Projects	8/28/2023	6,512.50
Wight & Company	Contractual/Consulting Services	Other- Countywide Expenses	Capital Projects	8/28/2023	2,839.95
Wight & Company	Contractual/Consulting Services	Other- Countywide Expenses	Capital Projects	8/28/2023	52,441.61
River View Ford Inc	Automotive Equipment	Other- Countywide Expenses	Capital Projects	8/29/2023	43,376.00
River View Ford Inc	Automotive Equipment	Other- Countywide Expenses	Capital Projects	8/29/2023	46,733.00
Phigenics, LLC	Building Improvements	Other- Countywide Expenses	Capital Projects	8/14/2023	5,510.00
Siemens Industry Inc	Building Improvements	Other- Countywide Expenses	Capital Projects	8/28/2023	3,000.00
Johnson Controls Security Solutions (Tyco)	Building Improvements	Other- Countywide Expenses	Capital Projects	8/28/2023	959.53
SteelSentry, Inc.	Special Purpose Equipment	Other- Countywide Expenses	Capital Projects	8/28/2023	32,962.22
Wight & Company	Building Improvements	Other- Countywide Expenses	Judicial Facility Construction	8/25/2023	70,327.67
Wight & Company	Building Improvements	Other- Countywide Expenses	Judicial Facility Construction	8/25/2023	65,165.27
Wight & Company	Building Improvements	Other- Countywide Expenses	Judicial Facility Construction	8/25/2023	62,516.79
Wight & Company	Building Improvements	Other- Countywide Expenses	Judicial Facility Construction	8/28/2023	5,186.00
Cornerstone Partners Horticultural Services Co.	Repairs and Maint- Grounds	Development	Mill Creek Special Service Area	8/14/2023	5,023.00
Cornerstone Partners Horticultural Services Co.	Repairs and Maint- Grounds	Development	Mill Creek Special Service Area	8/14/2023	6,303.00
Cornerstone Partners Horticultural Services Co.	Repairs and Maint- Grounds	Development	Mill Creek Special Service Area	8/14/2023	2,463.30
Cornerstone Partners Horticultural Services Co.	Repairs and Maint- Grounds	Development	Mill Creek Special Service Area	8/28/2023	715.51
Outdoor Home Svc. Hold., LLC dba TruGreen & Action	Repairs and Maint- Grounds	Development	Mill Creek Special Service Area	8/28/2023	5,850.00
All American Flag Company	Repairs and Maint- Grounds	Development	Mill Creek Special Service Area	8/28/2023	2,664.96
Tri City Land Management Co., LLC	Building Space Rental	Development	Mill Creek Special Service Area	8/14/2023	1,069.54
Kellenberger Electric, Inc.	Intersect Lighting Services	Development	Mill Creek Special Service Area	8/14/2023	15,950.00
ComEd	Utilities- Intersect Lighting	Development	Mill Creek Special Service Area	8/14/2023	191.32
ComEd	Utilities- Intersect Lighting	Development	Mill Creek Special Service Area	8/14/2023	341.24
Nicor Gas	Utilities- Intersect Lighting	Development	Mill Creek Special Service Area	8/14/2023	50.14
ComEd	Utilities- Intersect Lighting	Development	Mill Creek Special Service Area	8/28/2023	82.63
ComEd	Utilities- Intersect Lighting	Development	Mill Creek Special Service Area	8/28/2023	25.40
RES Great Lakes LLC (Applied Ecological Services)	Repairs and Maint- Stormwater	Development	Wildwood West SBA SW41	8/28/2023	725.00
Southwind Industries dba Bluff City Materials, Inc	Road Construction	Transportation	North Impact Fees	8/14/2023	1,221,360.78
Zions Bank	Restricted Cash & Investments		Longmeadow Debt Service	8/31/2023	143,240.01
Cornerstone Partners Horticultural Services Co.	Contractual/Consulting Services	Environmental Management	Enterprise Surcharge	8/28/2023	2,265.20
Cornerstone Partners Horticultural Services Co.	Contractual/Consulting Services	Environmental Management	Enterprise Surcharge	8/28/2023	998.75
Cornerstone Partners Horticultural Services Co.	Contractual/Consulting Services	Environmental Management	Enterprise Surcharge	8/28/2023	1,132.60
Century Springs/Ove Water Services	Operating Supplies	Environmental Management	Enterprise Surcharge	8/28/2023	2.99
Fifth Third Bank	Operating Supplies	Environmental Management	Enterprise Surcharge	8/28/2023	1,498.63
Fluorecycle, Inc.	Operating Supplies	Environmental Management	Enterprise Surcharge	8/28/2023	330.51
Fluorecycle, Inc.	Operating Supplies	Environmental Management	Enterprise Surcharge	8/28/2023	75.00
AssuredPartners Cap. dba Assured Partnrs of IL LLC	Contractual/Consulting Services	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	9,000.00
Flexible Benefits Service, LLC	Healthcare Admin Services	Other- Countywide Expenses	Health Insurance Fund	8/28/2023	1,109.25
Health Care Service Corporation dba BCBSIL	Healthcare - Stop Loss Insurance	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	(17,842.17)
Fidelity Security Life Insurance Company (Eyemed)	Healthcare - Vision Insurance	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	6,778.94
Cigna Health and Life Insurance Company	Healthcare - Dental Insurance	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	62,354.72
Catilize Health, Inc. dba Catilize Health	Healthcare - Medical Expense Reimbursement	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	8,684.18
Catilize Health, Inc. dba Catilize Health	Healthcare - Medical Expense Reimbursement	Other- Countywide Expenses	Health Insurance Fund	8/28/2023	3,639.56
Health Care Service Corporation dba BCBSIL	Healthcare - Stop Loss Insurance	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	62,830.82
Health Care Service Corporation dba BCBSIL	Self Insured Healthcare Claims	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	665,860.23
Health Care Service Corporation dba BCBSIL	Self Insured Healthcare Claims Administration	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	21,051.44
Health Care Service Corporation dba BCBSIL	Healthcare Facility Access Fee	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	561.73
Health Care Service Corporation dba BCBSIL	Healthcare Credits	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	(30,586.01)
Health Care Service Corporation dba BCBSIL	Healthcare - Stop Loss Insurance	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	46,720.44
Health Care Service Corporation dba BCBSIL	Self Insured Healthcare Claims	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	544,019.11
Health Care Service Corporation dba BCBSIL	Self Insured Healthcare Claims Administration	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	30,539.23
Health Care Service Corporation dba BCBSIL	Healthcare HMO Managed Care Fee	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	8,803.80
Health Care Service Corporation dba BCBSIL	Healthcare Physician Services Fee	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	216,284.93
Health Care Service Corporation dba BCBSIL	Healthcare Credits	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	(47,413.89)
Humana Insurance Company	Healthcare - Health Insurance	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	10,723.15

Humana Insurance Company	Healthcare - Health Insurance	Other- Countywide Expenses	Health Insurance Fund	8/14/2023	10,723.15
Humana Insurance Company	Healthcare - Health Insurance	Other- Countywide Expenses	Health Insurance Fund	8/28/2023	10,723.15
ComEd	Accrued Liabilities		Special Trust	8/3/2023	20,000.00
Intrado Life & Safety Solutions Corporation	Accrued Liabilities		911 Emergency Surcharge	8/28/2023	35,675.32
John F. Harahan	Distribution	Information Technologies	911 Emergency Surcharge	8/14/2023	875.00
KenCom (Kendall County Emergency Phone Service)	Distribution	Information Technologies	911 Emergency Surcharge	8/14/2023	5,043.18
Voiance Language Services, LLC	Distribution	Information Technologies	911 Emergency Surcharge	8/14/2023	435.75
AT&T	Distribution	Information Technologies	911 Emergency Surcharge	8/14/2023	78.48
AT&T	Distribution	Information Technologies	911 Emergency Surcharge	8/14/2023	217.92
Jerald Bleck	Distribution	Information Technologies	911 Emergency Surcharge	8/28/2023	618.75
Intrado Life & Safety Solutions Corporation	Distribution	Information Technologies	911 Emergency Surcharge	8/28/2023	34,731.86
Tri-Com Central Dispatch/City of Geneva	Distribution	Information Technologies	Wireless 911	8/14/2023	190,088.89
Illinois Department of Revenue	Accrued Liabilities		Recorder's Rental Surcharge	8/1/2023	68,922.00
Flexible Benefits Service, LLC	Accrued Liabilities		Flexible Spending Account	8/14/2023	7,203.05
Flexible Benefits Service, LLC	Accrued Liabilities		Flexible Spending Account	8/14/2023	9,766.98
Flexible Benefits Service, LLC	Accrued Liabilities		Flexible Spending Account	8/28/2023	6,417.67
Flexible Benefits Service, LLC	Accrued Liabilities		Flexible Spending Account	8/28/2023	6,490.82
State of Illinois Treasurer	Accrued Liabilities		County Clerk Domestic Violence	8/14/2023	1,575.00
IL Dept of Public Health, Div of Vital Records	Accrued Liabilities		Death Certificates	8/14/2023	9,360.00
Illinois Department of Revenue	Accrued Liabilities		State Real Estate Transfer Tax	8/1/2023	309,147.50
				1998	15,973,694.98

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1270

AUTHORIZING THE SALARY ADJUSTMENT FOR THE EXECUTIVE DIRECTOR OF KANE COUNTY EMERGENCY COMMUNICATIONS

WHEREAS, KaneComm is responsible for answering 9-1-1 emergency telephone calls and dispatching the appropriate public safety agency to handle such emergencies; and

WHEREAS, Kane County Human Resources has been reviewing County staff for internal equity; and

WHEREAS, the County Board has reviewed the salary for the Director of KaneComm; and

WHEREAS, Human Resources under the direction of the County Board has noted an inequity in the salary of the KaneComm Director as compared to other Directors and professionals in the 9-1-1 industry that warrants immediate correction for Fiscal Year 2023; and

WHEREAS, funding for equity adjustments has been provided for in the Fiscal Year 2023 budget and is currently in contingency in the General Fund budget.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the annual salary of the Executive Director of KaneComm be increased to $125,000 effective the first full pay period of FY2023 and the following adjustments be made to the Fiscal Year 2023 budget to provide funding for this expense:

$19,081	269.425.426.40000	Salaries and Wages
$1,460	269.425.426.45100	FICA/SS Contribution
$983	269.425.426.45200	IMRF Contribution
$557	269.425.426.53000	Liability Insurance
$424	269.425.426.53010	Workers Compensation
$8	269.425.426.53020	Unemployment Claims
($22,513)	269.425.000.39001	Transfer from the General Fund
$22,513	001.900.900.99269	Transfer to Fund 269
($22,513)	001.900.900.85010	Allowance for Employee Expense

Passed by the Kane County Board on October 10, 2023

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing the Salary Adjustment for the Executive Director of Kane County Emergency Communications

Committee Flow:
Judicial Public Safety Committee, Finance and Budget Committee, Executive Committee, County Board

Contact:
Michelle Guthrie 630.232.5988

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $125,000
If not budgeted, explain funding source: N/A	

Summary:

This resolution authorizes the increase of the Executive Director of Kane County Emergency Communications salary to $125,000, effective with the first full pay period of FY2023.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1151

AUTHORIZING THE KANE COUNTY SHERIFF'S OFFICE NEW ADMINISTRATION WING PROJECT AND A BUDGET ADJUSTMENT TO THE CAPITAL FUND

WHEREAS, Bids have been solicited and received for the Kane County Sheriff's Office New Administration Wing Project (BID #23-037). A total of seven (7) bids were received and opened publicly on Thursday, July 20, 2023, at 3:30 pm; and

WHEREAS, Kluber, Incorporated held a project scope review with the most responsible bidder after the bid opening to ensure that they fully understood the project and the contract requirements. They acknowledged full understanding and acceptance of the terms. In addition, Kluber, Inc. also reviewed LCI's qualification statement and references and are satisfied that the awardee meets their recommended standards; and

WHEREAS, per bid documents and specifications, Kluber, Inc. recommends that the project be awarded to Lite Construction, Inc (LCI), 711 S. Lake Street, Montgomery, IL 60538 for a Total Bid of $649,674.00. LCI is in agreement that the scope of work was also included in their bid; and

WHEREAS, Kluber, Inc. further recommends that the total project cost also include a project contingency of $60,000.00 to handle any issues during construction. The suggested contingency value for the project was included in the grand total project cost of $649,674.00; and

WHEREAS, the $60,000.00 contingency will be held by the County; and

WHEREAS, the Kane County Sheriff's Office has retained Kluber Inc., 41 W. Benton Street, Aurora, IL 60506 to provide construction administration services for the project in the amount of Nineteen Thousand, Nine Hundred Fifty Dollars and 00/100 ($19,950.00); and

WHEREAS, the Kane County Sheriff's Office requests that $500,000.00 of Capital Fund 500 be reserved to fund the Kane County Sheriff's Office Administration Wing Project.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board that the following adjustment be made to the Fiscal Year 2023 budget assignment and transfers amount:

500.800.805.50000	Project Administration Services	$19,950
500.800.805.72010	Building Improvements	$649,674

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Kane County Board that the Chairman of the Board is authorized and directed to execute a contract for the authorization of the Kane County Sheriff's Office New Administration Wing Project to Lite Construction, Inc (LCI) of Montgomery, IL for the bid amount of Six Hundred Forty-Nine Thousand, Six Hundred Seventy-Four Dollars and 00/100 ($649,674.00) which includes a Sixty Thousand Dollar ($60,000.00) project contingency and $19,950.00 for construction administration services for a total project cost of Six Hundred Sixty-Nine Thousand, Six Hundred Twenty-Four Dollars and 00/100 ($669,624.00).

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing the Kane County Sheriff's Office New Administration Wing Project and Budget Rollover

Committee Flow:
Administration Committee, Finance and Budget Committee, Executive Committee, County Board

Contact:
Christie Duffy, 630.208.2001

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $669,624.00
If not budgeted, explain funding source: Unused funds rolled into the Captial Fund 500	

Summary:

This resolution authorizes the Kane County Sheriff's Office New Administration Wing project. The Kane County Adult Justice Center is in dire need of additional office space due to the expanding inmate programs, expanding social worker team and the need for additional evidence storage. In coordination with Building Management and Information Technologies, a decision was made to renovate the unused portion of the Kane County Adult Judicial Center front lobby for a New Administration Wing. On June 22, 2023, a Request for Bid was posted. The Kane County Evaluation Team selected Lite Construction, Inc. (LCI) of Montgomery, IL, as the most responsible bidder.

County of Kane
PURCHASING DEPARTMENT
KANE COUNTY GOVERNMENT CENTER

719 S. Batavia Avenue, Bldg. A
Geneva, Illinois 60134

Telephone: (630) 208-3803
Fax: (630) 208-5107

September 1, 2023

PROCUREMENT SYNOPSIS

Requesting Department:	Kane County Sheriff's Office
Procurement Name:	Bid 23-037 Kane County Sheriff's Office Renovation Project
Recommended Vendors:	Lite Construction, Inc

NOTIFICATION AND RESPONSE

Public Notices: Bidnet Direct and The Daily Herald

Advertising Date:	June 19, 2023	Notices sent/Plan Holders: 34/34
Proposal Due Date:	July 20, 2023	Proposals Received: 7

PURPOSE

This bid is seeking a qualified and experienced General Contractor for the Kane County Sheriff's Office Administration Wing improvement and renovation project.

Kane County Sheriff's Office, Kluber Architects & Engineers, the architect of record, evaluated all bids per specifications and contract requirements and determined that Lite Construction of Montgomery, IL was the most responsive, responsible bidder to perform the required services at the highest quality and value. The following bids were received:

VENDORS	Base Bids	Alternate	Total with Alternate
Lite Construction, Inc - Montgomery, IL	***$649,674.00***	***$0.00***	***$649,674.00***
Ostrander Construction, Inc - Downers Grove, IL	$716,315.00	($17,630.00)	$698,685.00
CCC Holdings, Inc - Tinley Park, IL	$686,000.00	$19,400.00	$705,400.00
Kandu Construction, Inc - Skokie, IL	$757,000.00	($23,000.00)	$734,000.00
Manusos GC - Fox Lake, IL	$761,330.00	$0.00	$761,330.00
KWCC, Inc - Montgomery, IL	$827,900.00	($4,900.00)	$823,000.00
R.L. Sohol - Plainfield, IL	$985,000.00	($4,200.00)	$980,800.00

Based on cost, experience, and bid compliance, the Sheriff's Office and staff concurred with Kluber and recommended awarding this contract to Lite Construction, of Montgomery, Illinois pending approval by Committee and County Board.

Submitted By:

Timothy Keovongsak,

Tim Keovongsak, CPPB
Assistant Director of Purchasing

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GENERAL NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH BY IBC 2021 EDITION AND SHALL CONFORM TO ALL OTHER APPLICABLE MUNICIPAL, STATE, AND FEDERAL REGULATIONS INCLUDING THE ILLINOIS ACCESSIBILITY CODE (2018) AND THE AMERICANS WITH DISABILITIES ACT.

A. GENERAL NOTES

1. ALL CONTRACTORS ARE REQUIRED TO VISIT THE SITE AND BE KNOWLEDGEABLE REGARDING EXISTING CONDITIONS AND THEIR EFFECT ON THE PROPOSED WORK. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR, ANY CONDITIONS REQUIRING MODIFICATION BEFORE PROCEEDING WITH THE PROJECT.
2. NOTIFY THE OWNER'S REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO THE INTERRUPTION OF ANY UTILITY.
3. PROTECT AND KEEP IN SERVICE ACTIVE UNDERGROUND UTILITIES, PIPES, OR CONDUITS, WHETHER INDICATED ON THE DRAWINGS OR NOT, UNLESS SPECIFICALLY CALLED FOR TO BE REMOVED, RELOCATED, OR DISCONNECTED AND ABANDONED.
4. CONTRACTORS AND SUBCONTRACTORS SHALL COORDINATE THEIR WORK WITH THAT OF OTHER TRADES.
5. NO WORK WILL BE PERMITTED TO BE INSTALLED WITHOUT RECEIPT AND SUBSEQUENT REVIEW OF FULL AND COMPLETE SUBMITTALS BY THE ARCHITECT/ENGINEER.
6. DO NOT SCALE DRAWINGS, DIMENSIONS INDICATED TAKE PRECEDENCE OVER SCALE.
7. VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD. WHERE DISCREPANCIES ARE FOUND BETWEEN DIMENSIONS OR ELEVATIONS SHOWN AND ACTUAL FIELD CONDITIONS, NOTIFY ARCHITECT/ENGINEER.
8. WHERE CONFLICTS MAY EXIST BETWEEN THE REQUIREMENTS OF PORTIONS OF THE CONTRACT DOCUMENTS, THE GREATER QUANTITY, HIGHER QUALITY OR MORE STRINGENT REQUIREMENT SHALL GOVERN. THEREFORE, BY EXECUTING A CONTRACT FOR CONSTRUCTION, THE CONTRACTOR AGREES THAT, IF IT RAISED NO QUESTIONS REGARDING SUCH CONFLICTS DURING THE BIDDING PROCESS, AND IN THE ABSENCE OF A CLARIFYING ADDENDUM ISSUED DURING THE BIDDING PROCESS, IT HAS VOLUNTEERED TO COMPLY WITH THE MORE EXPENSIVE REQUIREMENT AS PART OF ITS BASE BID AND IS NOT ENTITLED TO ANY ADDITIONAL COMPENSATION TO RESOLVE THE CONFLICT.
9. THE CONTRACT DOCUMENTS REQUIRE THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE PRODUCTS, SYSTEMS AND SERVICES. BY EXECUTING A CONTRACT FOR CONSTRUCTION, THE CONTRACTOR AGREES THAT THE DRAWINGS SET FORTH THE DESIGN INTENT AND, THEREFORE, MAY NOT EXPRESSLY DEPICT EVERY LENGTH, SEGMENT, PIECE, PART, COMPONENT OR UNIT OF A PRODUCT, SYSTEM OR SERVICE. THE CONTRACTOR FURTHER AGREES THAT, AS PART OF ITS BID, IT MUST FURNISH AND INSTALL EVERY LENGTH, SEGMENT, PIECE, PART, COMPONENT OR UNIT OF A PRODUCT, SYSTEM OR SERVICE AND, CONSEQUENTLY, THE CONTRACTOR IS NOT ENTITLED TO ANY ADDITIONAL COMPENSATION FOR ANY LENGTH, SEGMENT, PIECE, PART COMPONENT OR UNIT OF A PRODUCT, SYSTEM OR SERVICE BECAUSE IT IS NOT EXPRESSLY DEPICTED HEREIN.

B: MISCELLANEOUS AND DEMOLITION NOTES

1. COORDINATE PENETRATIONS AND/OR SLEEVES REQUIRED IN WALLS, FLOORS, CEILINGS OR ROOFS FOR MECHANICAL AND ELECTRICAL WORK REQUIRED BY ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
2. SEAL WITH UL APPROVED MATERIALS PENETRATIONS OF DUCTWORK, CONDUIT AND PIPES THROUGH FIRE-RATED ASSEMBLIES, TO MAINTAIN THE RATING INTEGRITY OF THOSE ASSEMBLIES. PROVIDE FIRE DAMPERS AS INDICATED ON THE DRAWINGS.
3. SEAL WITH ACOUSTICAL SEALANT PENETRATIONS OF DUCTWORK, CONDUIT AND PIPES THROUGH NON-RATED FLOORS, FULL-HEIGHT WALLS/PARTITIONS, ACOUSTICALLY INSULATED WALLS/PARTITIONS, AND SOUND-RATED WALLS/PARTITIONS, TO MAINTAIN THE ACOUSTICAL INTEGRITY OF THOSE ASSEMBLIES.
4. APPLY APPROPRIATE & COMPATIBLE SEALANT MATERIALS AS REQUIRED TO SEPARATE DISSIMILAR METALS, FILL GAPS IN EXISTING ASSEMBLIES OR WHERE NEW AND EXISTING ASSEMBLIES MEET OR WHERE OTHERWISE REQUIRED BY THE SPECIFICATIONS.
5. BRING ANY UNFORESEEN OR CONFLICTING CONDITIONS TO THE IMMEDIATE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
6. REPAIR, PATCH, OR REPLACE FINISH MATERIALS OR VISIBLE ASSEMBLIES THAT ARE SOILED, CUT OR DAMAGED IN ANY FASHION DURING THE COURSE OF THE WORK. PERFORM PATCHING SUCH THAT EDGES BLEND INTO CONTIGUOUS SURFACES SMOOTHLY, MATCHING TEXTURE AND COLOR OF ADJACENT SURFACES.

STANDARD ABBREVIATIONS

@	AT
A B	ANCHOR BOLT
ABR	ABRASIVE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
ACOU	ACOUSTIC
ADD'N	ADDITION
ADD'L	ADDITIONAL
ADJ	ADJACENT OR ADJUSTABLE
AL	ALUMINUM
ALT	ALTERNATE
ANCHR	ANCHOR
AP	ACCESS PANEL
APPROX	APPROXIMATE
ASPH	ASPHALT
AUTO	AUTOMATIC
AVG	AVERAGE
BSMT	BASEMENT
B/	BOTTOM OF
BD	BOARD
BET	BETWEEN
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING (WOOD)
BM	BEAM
B.M.	BENCH MARK
BRG	BEARING
BRKT	BRACKET
BRK	BRICK
BT STL PL	BENT STEEL PLATE
CJ	CONSTRUCTION OR CONTRACTION JOINT
CAB	CABINET
CEM PL-(1)	CEMENT PLASTER (TYPE)
CT PAV-(1)	CERAMIC PAVER TILE (TYPE)
CIP	CAST-IN-PLACE
CLG	CEILING
CLR	CLEAR
C.O.	CLEAN-OUT
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESSIBLE OR COMPACTED
CONC	CONCRETE
CONC OPNG	CONCRETE OPENING
COND	CONDITION
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
CPT-(1)	CARPET (TYPE)
CT-(1)	CERAMIC TILE (TYPE)
CTR	COUNTER
CTR SK	COUNTER SINK
CTRS	CENTER(S)
CUH	CABINET UNIT HEATER
CUV	CABINET UNIT VENTILATOR
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DO	DOOR OPENING
DR	DOOR
DWGS	DRAWINGS
DTL	DETAIL
DWL'S	DOWELS
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
ELEC CONTR	ELECTRICAL CONTRACTOR
ELEV	ELEVATOR OR ELEVATION
EMBED	EMBEDMENT
EMER	EMERGENCY
EP	EPOXY
EQ	EQUAL
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
EXP	EXPANSION
EXP CONST	EXPOSED CONSTRUCTION
FD	FLOOR DRAIN
FDN	FOUNDATION
FNDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FIN	FINISH
FLR	FLOOR
FRT	FIRE RETARDANT TREATED
FUR CHN'L	FURRING CHANNEL
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GEN CONTR	GENERAL CONTRACTOR
GC	GENERAL CONTRACTOR
GL	GLASS
GYP BD-(1)	GYPSUM WALL BOARD (TYPE)
GYP PL-(1)	GYPSUM PLASTER (TYPE)
H	HIGH
HD	HEAVY DUTY OR HARD
HDNR	HARDENER
HD WD-(1)	HARD WOOD (TYPE)
HDWR	HARDWARE
HT	HEIGHT
HM	HOLLOW METAL
HP	HIGH POINT
HORIZ	HORIZONTAL
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
IN	INCH
ID	INSIDE DIAMETER
INCL	INCLUDE/INCLUDING/INCLUDED
INSUL	INSULATION/INSULATING/INSULATED
JT	JOINT
KD	KNOCK DOWN
L	LONG
LAM	LAMINATE/LAMINATING/LAMINATED
LAV	LAVATORY
LH	LEFT HAND
LP	LOW POINT
LT WT	LIGHTWEIGHT
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVR	LOUVER
MO	MASONRY OPENING
MT	METAL THRESHOLD
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB (16)	MARKERBOARD (LENGTH IN FEET)
MECH	MECHANICAL
MECH CONTR	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MIN	MINIMUM OR MINUTE(S)
MISC	MISCELLANEOUS
MSB	MOP SERVICE BASIN (SINK)
MT(D)	MOUNT(ED)
MTL	METAL
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
NO	NUMBER
OA	OVERALL OR OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE OR OPPOSITE FACE
OPNG	OPENING
OPP	OPPOSITE OR OPPOSITE HAND
PSF	POUNDS PER SQUARE FOOT
PS	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED OR PAINT
PTN	PARTITION
PVMT	PAVEMENT
PC	PIECE
PL	PLATE
PLAM	PLASTIC LAMINATE(D)
PL	PLASTER
PLB'G	PLUMBING
PLB'G CONTR	PLUMBING CONTRACTOR
PLYWD	PLYWOOD
PNT	PAINT
PO	PRECAST (CONCRETE) OPENING
PVC	POLYVINYL CHLORIDE
PL-(1)	GYPSUM PLASTER (TYPE)
R	RISER
R OR RAD	RADIUS
RD	ROOF DRAIN
RO	ROUGH OPENING
RF (1)	RUBBER FLOORING (TYPE)
RH	RIGHT HAND
REF	REFERENCE
REINF	REINFORCE/REINFORCING/REINFORCED
REQ'D	REQUIRED
RM	ROOM
SF	SQUARE FOOT
SI	SQUARE INCH
SK	SINK
SS	STAINLESS STEEL
SSK	SERVICE SINK
SQ	SQUARE
SCHED	SCHEDULE
SEAL/HDNR	SEALER/HARDENER
SEC	SECTION
SHT	SHEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC(S)	SPECIFICATION(S)
SPC'G	SPACING
SPK'R	SPEAKER
STD	STANDARD
STD WT	STANDARD WEIGHT
STL	STEEL
STRUCT	STRUCTURE OR STRUCTURAL
SUSP	SUSPEND(ED)
SYM	SYMMETRICAL
T	TREAD
T&G	TONGUE AND GROOVE
T/BEAM	TOP OF
T/BEAM	TOP OF BEAM
T/C	TOP OF CURB
T/FNDN	TOP OF FOUNDATION
T/STL	TOP OF STEEL
T/WALL	TOP OF WALL
TB (4)	TACKBOARD (LENGTH IN FEET)
T/MAS	TOP OF MASONRY
TYP	TYPICAL
UD	(WINDOW) UNIT DIMENSION
UNO	UNLESS NOTED OTHERWISE
VBC	VINYL BASE COVED
VBS	VINYL BASE STRAIGHT
VCT	VINYL COMPOSITION TILE
VEN PL (1)	VENEER PLASTER (TYPE)
VERT	VERTICAL
W	WIDE OR WIDTH
W/	WITH
W/O	WITHOUT
WCG	WALL CORNER GUARD
WD	WOOD
WDW	WINDOW
WT	WEIGHT
WP	WATER PROOF
WWF	WELDED WIRE FABRIC
WSB	WALL SERVICE BASIN

THE MATERIALS, ABBREVIATIONS, AND DRAFTING SYMBOLS LEGEND ARE EACH AN ALL INCLUSIVE MASTER LIST USED BY THIS FIRM. THE INCLUSION OF THESE LEGENDS INTO THESE DOCUMENTS DOES NOT IMPLY THAT ALL THE SYMBOLS OR MATERIALS INCLUDED IN THESE LEGENDS ARE INCORPORATED INTO THIS PROJECT. ABBREVIATIONS MAY APPEAR WITH PERIODS OR OTHER PUNCTUATION SEPARATING CHARACTERS ON THE DRAWINGS; THE MEANING REMAINS THE SAME.

DRAFTING SYMBOLS AND MATERIALS LEGEND

- DETAIL NUMBER / DRAWING NUMBER — 8 / A12.24
- DETAIL NUMBER / DRAWING NUMBER — 23 / A7.19
- DETAIL NUMBER / DRAWING NUMBER — 2, 6, A9.16, 5, 3
- DETAIL NUMBER / DRAWING NUMBER — 1 / A6.05
- COLUMN NO. — 26
- REFERENCE LINE NO. — 26
- LOCATION ELEVATION — T/1ST FLR. 100'-0"
- ROOM NUMBER — 204
- DOOR NO. NEW — 203.2
- DOOR NO. EXISTING — 203.1X
- NOMINAL THICKNESS / CONSTRUCTION TYPE / SPECIAL CONDITION — M8b
- KEYNOTE IDENTIFICATION — 7.531
- WINDOW TYPE IDENTIFICATION — X
- TOILET ACCESSORY IDENTIFICATION — A
- SPOT ELEVATION — T/1ST. FLR. 100'-0"
- CONCRETE
- BRICK MASONRY IN PLAN
- CONCRETE MASONRY IN PLAN (RUNNING BOND)
- CONCRETE MASONRY IN PLAN (STACK BOND)
- STONE MASONRY IN PLAN
- RAKED JOINT IN PLAN / CTRL./EXP. JOINT IN PLAN
- BRICK MASONRY IN SECTION DETAIL
- CONCRETE MASONRY IN SECTION DETAIL
- STONE MASONRY IN SECTION DETAIL
- STEEL IN SECTION DETAIL
- DISCONTINUOUS ROUGH WOOD BLOCKING IN SECTION
- CONTINUOUS ROUGH WOOD FRAMING/BLOCKING IN SECTION
- FINISHED WOOD IN SECTION DETAIL
- RIGID BOARD INSULATION
- RIGID BOARD INSULATION (ROOFING)
- BATT INSULATION
- GYPSUM BOARD
- ACOUSTICAL CEILING PANEL
- BITUMINOUS CONCRETE (ASPHALT) PAVING IN SECTION
- AGGREGATE BALLAST, FILL OR BACKFILL IN SECTION
- UNDISTURBED EARTH
- EARTH BACKFILL

KANE COUNTY SHERIFF'S OFFICE — KANE — STATE OF ILLINOIS — COUNTY

PROJECT — **KANE COUNTY SHERIFF - ADMINISTRATION WING RENOVATIONS**
37W755 IL-38 SUITE A
ST CHARLES, IL 60175

OWNER — **KANE COUNTY SHERIFF**
37W755 IL-38 SUITE A
ST CHARLES, IL 60175

ARCHITECT/ ENGINEER — **KLUBER ARCHITECTS + ENGINEERS**
41 W BENTON STREET
AURORA, ILLINOIS 60506
TEL (630) 406-1213
FAX (630) 406-9472
www.kluberinc.com

REQUIRED CODE COMPLIANCE INFORMATION

REQUIRED PLAN COVER SHEET
INFORMATION FOR REVIEW
UNDER 2021 INTERNATIONAL CODES,
STATE OF ILLINOIS ACCESSIBILITY CODE, AND
THE STATE OF ILLINOIS PLUMBING CODE
CODE REVIEW DATA

GENERAL STATEMENT OF OVERALL PROJECT SCOPE AND INTENT:

PROJECT CONSISTS OF INTERIOR ALTERATIONS AND REMODELING TO AN EXISTING MULTI-STORY SHERIFF OFFICE BUILDING. BUILDING COMPONENTS AND SYSTEMS MODIFIED OR REPLACED AS PART OF THE WORK OF THIS PROJECT HAVE BEEN BROUGHT UP TO MEET THE REQUIREMENTS OF THE APPLICABLE CURRENT CODES.

THE AREAS ALTERED FOR OFFICE USE ARE CLASSIFIED AS GROUP B.

A. USE AND OCCUPANCY GROUP(S) CLASSIFICATION: B.
B. TYPE OF CONSTRUCTION: IIB
C. SQUARE FOOTAGE OF BUILDING: NOT APPLICABLE; RENOVATED AREAS SQUARE FOOTAGE IS 2,066.
ALLOWABLE SQUARE FOOTAGE: NOT APPLICABLE; NO CHANGE OF USE.
FULLY SPRINKLERED; ALARMED
D. OCCUPANT LOAD BASED ON INTERNATIONAL BUILDING CODE: 30 BUSINESS OCCUPANCY
E. OCCUPANT LOAD BASED ON ILLINOIS PLUMBING CODE: 7
F. DESIGNED LIVE LOADS: NOT APPLICABLE; THIS IS AN EXISTING BUILDING, TO WHICH NO MODIFICATIONS ARE BEING MADE TO STRUCTURAL COMPONENTS.
G. THE DESIGN PROFESSIONALS IN RESPONSIBLE CHARGE ARE IDENTIFIED IN THE SEALS AND CERTIFICATES AREA, BELOW.

APPLICABLE CODES

2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL FUEL AND GAS CODE
2021 INTERNATIONAL EXISTING BUILDING CODE
2021 INTERNATIONAL FIRE CODE
2020 NATIONAL ELECTRICAL CODE
LOCAL AMENDMENTS TO THE ABOVE CODES

2014 ILLINOIS PLUMBING CODE
2018 ILLINOIS ENERGY CONSERVATION CODE (2018 INTERNATIONAL ENERGY CONSERVATION CODE W/STATE AMENDMENTS)
2018 ILLINOIS ACCESSIBILITY CODE

SEALS & CERTIFICATIONS

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED PLANS AND SPECIFICATIONS AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH IBC 2021 EDITION, THE ENVIRONMENTAL BARRIERS ACT AND THE ILLINOIS ACCESSIBILITY CODE.

KLUBER, INC. ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE #184-001284

ARCHITECT'S SEAL — LICENSED ARCHITECT — CLAYTON D. HALDEMAN — 001-015007 — STATE OF ILLINOIS
expires 11-30-20 24
signature
May 05, 2023
date
"G" SERIES, "A" SERIES

MECHANICAL ENGINEER'S SEAL — LICENSED PROFESSIONAL ENGINEER — DONALD D. WARE, JR. — 062-052082 — STATE OF ILLINOIS
expires 11-30-20 23
signature
May 05, 2023
date
"G" SERIES, "P" SERIES, "M" SERIES, "F" SERIES

ELECTRICAL ENGINEER'S SEAL — LICENSED PROFESSIONAL ENGINEER — MICHAEL T. KLUBER — 062-047325 — STATE OF ILLINOIS
expires 11-30-20 23
signature
May 05, 2023
date
"G" SERIES, "E" SERIES

INDEX OF DRAWINGS

GENERAL
G100 COVER SHEET, GENERAL NOTES, SYMBOLS, & DRAWING INDEX
G201 ACCESSIBILITY REQUIREMENTS

ARCHITECTURAL
A310 DEMOLITION & NEW WORK FIRST FLOOR PLANS
A410 DEMOLITION & NEW WORK FIRST FLOOR REFLECTED CEILING PLANS
A800 DOOR, FRAME & HARDWARE SCHEDULES, TOILET ACCESSORY & FINISH SCHEDULE
A1100 INTERIOR PARTITION TYPES & DETAILS

MECHANICAL
M310 MECHANICAL FLOOR PLANS
M410 MECHANICAL SCHEDULES, DETAILS & TEMPERATURE CONTROLS

FIRE PROTECTION
F310 FIRE PROTECTION FLOOR PLANS

PLUMBING
P310 PLUMBING FLOOR PLANS

ELECTRICAL
E050 ELECTRICAL SYMBOLS LIST, ABBREVIATIONS, SCHEDULES & DETAILS
E210 ELECTRICAL DEMOLITION PLANS
E310 ELECTRICAL PLANS

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KANE COUNTY SHERIFF - ADMINISTRATION WING RENOVATIONS
KANE COUNTY SHERIFF
37W755 IL-38 SUITE A
ST. CHARLES, IL 60175

ISSUED
BID DOCUMENTS
05/05/23

JOB NO. 23-471-1466
DRAWN PJT
CHECKED CDH
APPROVED CDH

SHEET TITLE
COVER SHEET, GENERAL NOTES, SYMBOLS AND DRAWING INDEX

SHEET NUMBER
G100

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

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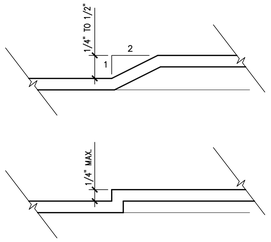
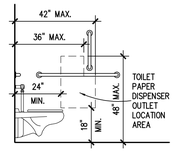
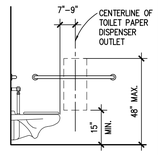


CHANGES IN LEVEL (7)

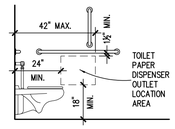
SCALE: NONE



ICC A117.1 REQUIREMENTS (RECESSDED DISPENSERS)

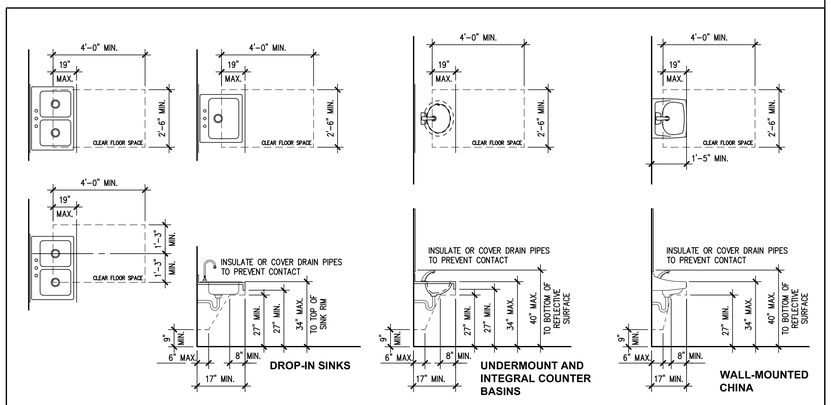


ILLINOIS ACCESSIBILITY CODE REQUIREMENTS (ALL DISPENSERS)



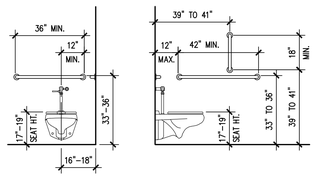
ICC A117.1 REQUIREMENTS (PROTRUDING DISPENSERS)

TOILET PAPER DISPENSER LOCATION REQUIREMENTS

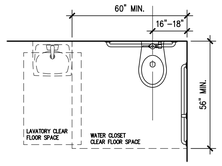


SINKS AND LAVATORIES (12)

SCALE: NONE



WATER CLOSET AND GRAB BAR MOUNTING LOCATIONS

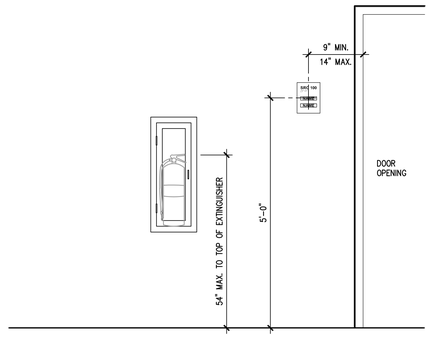


CLEAR FLOOR AREA - COMMERCIAL USE AND ACCESSIBLE RESIDENTIAL USE

NOTE: WHILE WALL-MOUNTED WATER CLOSETS ARE SHOWN IN DIAGRAMS ABOVE, INDICATED DIMENSIONS APPLY EQUALLY TO FLOOR-MOUNTED AND TANK-TYPE WATER CLOSETS.

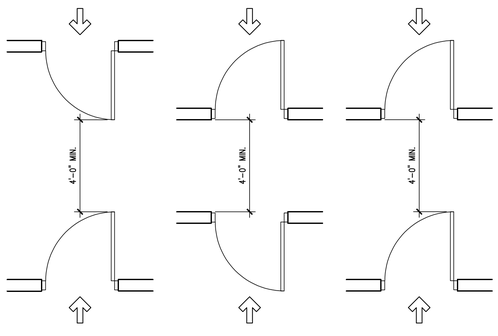
WATER CLOSETS (5)

SCALE: NONE

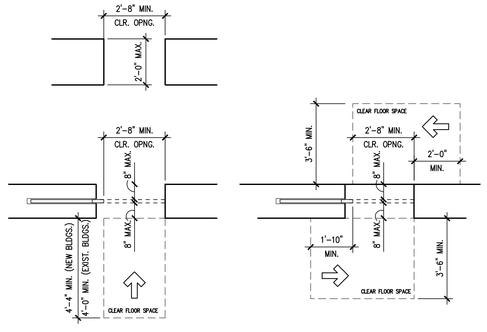


ROOM SIGNS, FIRE EXTINGUISHERS (1)

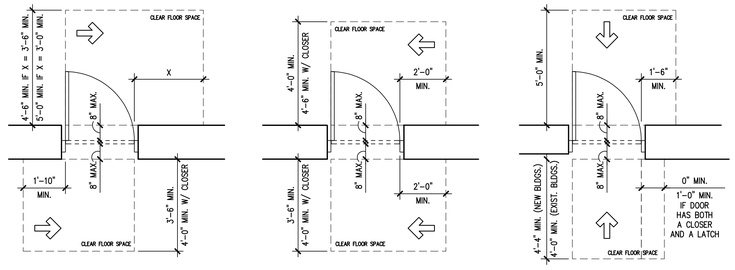
SCALE: NONE



DOORS IN SERIES



POCKET DOORS AND OPENINGS WITHOUT DOORS



SIDE-SWINGING DOORS

DOOR CLEARANCES (4)

SCALE: NONE

GENERAL NOTES

1. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
2. DETAILS ON THIS DRAWING ARE INTENDED TO DEPICT A RANGE OF DIFFERENT CONDITIONS. NOT ALL CONDITIONS DEPICTED MAY BE PRESENT IN THIS PROJECT.
3. DIMENSIONAL REQUIREMENTS DEPICTED ARE MEASURED TO FACE OF SURFACE FINISHES. ABSOLUTE DIMENSIONS ARE SUBJECT TO REASONABLE CONSTRUCTION TOLERANCES AS DETERMINED BY THE ARCHITECT/ENGINEER AND THE AUTHORITY HAVING JURISDICTION. CONSTRUCTED CLEARANCES, LENGTHS, WIDTHS, DEPTHS OR AREAS EXCEEDING INDICATED MAXIMUMS, LESS THAN INDICATED MINIMUMS OR OUTSIDE OF INDICATED RANGES WILL NOT BE ACCEPTED.
4. COORDINATE REQUIREMENTS DEPICTED ON THIS DRAWING WITH INFORMATION DEPICTED ON OTHER DRAWINGS. WHERE DIMENSIONS AND/OR CLEARANCES ON OTHER DRAWINGS ARE OR APPEAR TO BE LESS THAN THE MINIMUMS, GREATER THAN MAXIMUMS OR DEVIATE FROM HOLD DIMENSIONS DEPICTED ON THIS DRAWING, THE REQUIREMENTS OF THIS DRAWING SHALL TAKE PRECEDENCE.

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ISSUED
050523 BID DOCUMENTS

JOB NO.	23-471-1466
DRAWN	CDH
CHECKED	CDH
APPROVED	CDH

SHEET TITLE

ACCESSIBILITY REQUIREMENTS

SHEET NUMBER

G201

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

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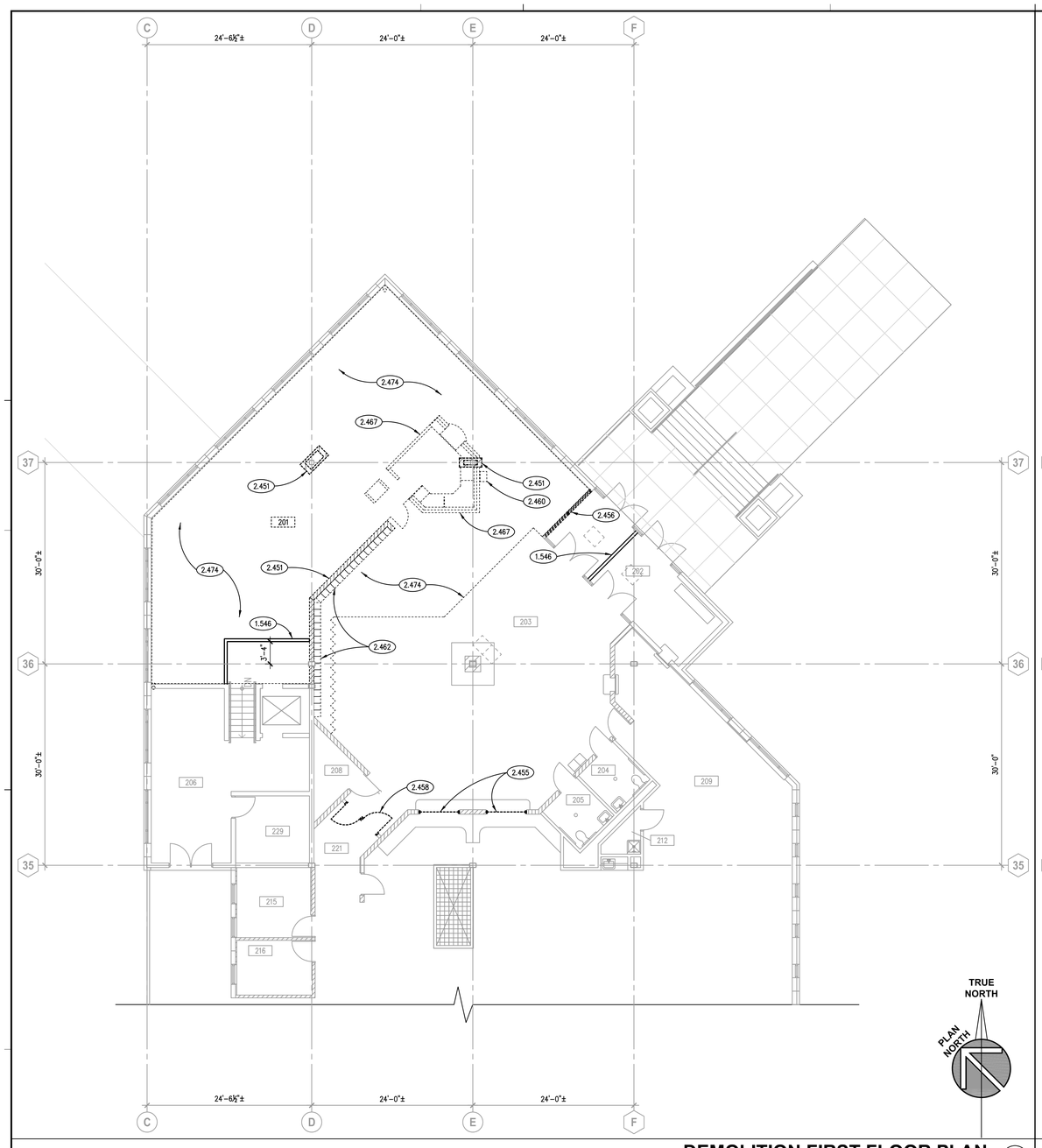
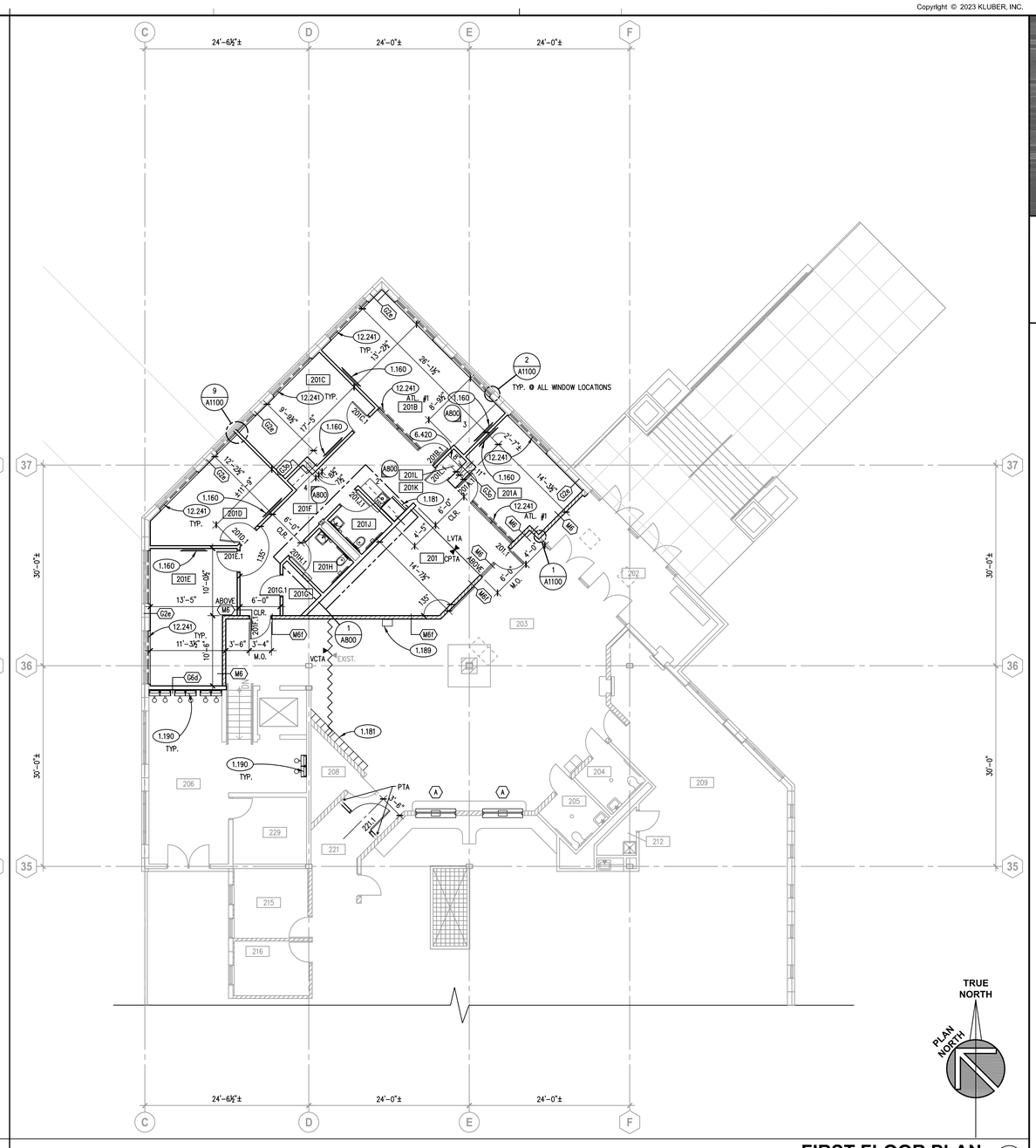


DEMOLITION FIRST FLOOR PLAN 1

SCALE: 1/8" = 1'-0"



FIRST FLOOR PLAN 2

SCALE: 1/8" = 1'-0"

KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

1.160 OWNER-FURNISHED ITEM TO BE INSTALLED BY CONTRACTORS: OFFICE EQUIPMENT; TV MONITOR; PROVIDE ADEQUATE BLOCKING TO SUPPORT NEW TV MONITOR.
1.181 OWNER-FURNISHED ITEM TO BE INSTALLED BY CONTRACTORS: RESIDENTIAL EQUIPMENT; REFERIGERATOR.
1.189 OWNER ITEM TO BE RELOCATED: EXISTING ATM KIOSK.
1.190 COORDINATE W/ OWNER FOR THE REMOVAL AND RELOCATION OF 8 EXISTING VISITATION KIOSKS.
1.546 TEMPORARY INTERIOR PARTITION: REMOVE AFTER NEW MASONRY WALL IS CONSTRUCTED AND VESTIBULE IS FULLY ENCLOSED.

2.451 REMOVE EXISTING INTERIOR WALL CONSTRUCTION: MASONRY PARTITION.
2.455 REMOVE EXISTING INTERIOR WINDOW: GLAZING; EXISTING HOLLOW METAL FRAME TO REMAIN.
2.456 REMOVE EXISTING INTERIOR WINDOW: GLAZED ALUMINUM STOREFRONT.
2.458 REMOVE EXISTING INTERIOR DOOR AND FRAME.
2.460 PROTECT & SALVAGE EXISTING ATM KIOSK FOR RELOCATION.
2.462 REMOVE EXISTING INTERIOR SPECIALTY: LOCKERS; SALVAGE (11) COLUMNS OF EXISTING LOCKERS FOR REUSE.
2.467 REMOVE EXISTING INTERIOR CONSTRUCTION: CASEWORK; AS INDICATED.
2.474 REMOVE EXISTING INTERIOR FLOOR FINISH: VCT.

6.420 CUSTOM CASEWORK: PLASTIC LAMINATE; SHELVING W/ SUPPORT BRACKETS.

12.241 ROLLER WINDOW SHADES: MOTOR OPERATED.

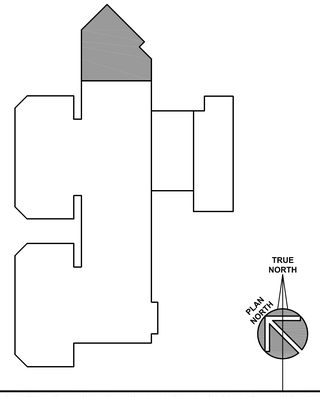
GENERAL NOTES

1. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
2. GYPSUM WALLS ARE WALL TYPE G3e UNLESS TAGGED OTHERWISE.
3. INTERIOR MASONRY WALLS ARE WALL TYPE M6 UNLESS TAGGED OTHERWISE..
4. IN METAL STUD/GYPSUM BOARD PARTITIONS AND WALLS, PROVIDE 2X FIRE RETARDANT TREATED WOOD BLOCKING FOR WALL-MOUNTED ITEMS REQUIRING MECHANICAL ANCHORAGE.
4. STORE SALVAGED ITEMS AS DIRECTED BY OWNER.
5. REMOVE SALVAGED ITEMS THAT WILL ULTIMATELY BE RE-USED ON THIS PROJECT TO OWNER'S DESIGNATED TEMPORARY STAGING AREA ON SITE.
6. PROTECT SALVAGED ITEMS FROM DAMAGE UNTIL INCORPORATED INTO THE WORK OR UNTIL MOVED TO OWNER'S PERMANENT STORAGE.
7. ADDITIONAL DEMOLITION/ RECONSTRUCTION AND REMOVAL/REPLACEMENT OF ARCHITECTURAL ELEMENTS IS REQUIRED TO COMPLETE THE WORK OF THIS PROJECT. COORDINATE WITH ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS, AND PROVIDE DEMOLITION/RECONSTRUCTION AND REMOVAL/REPLACEMENT OF ARCHITECTURAL ELEMENTS AS REQUIRED TO COMPLETE THE WORK SHOWN ON THOSE DRAWINGS.

ROOM SCHEDULE

RM. NO.	ROOM NAME	RM. NO.	ROOM NAME
201	SHARED OFFICE	201K	KITCHENETTE
201A	OFFICE	201L	CLOSET
201B	CONFERENCE ROOM	203	EXISTING LOBBY
201C	OFFICE	221	EXISTING CORRIDOR
201D	OFFICE		
201E	OFFICE		
201F	CORRIDOR		
201G	CLOSET		
201H	RESTROOM		
201J	RESTROOM		

KEY PLAN



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ISSUED
05/05/23 BID DOCUMENTS

JOB NO. 23-471-1466
DRAWN PJT
CHECKED CDH
APPROVED CDH

SHEET TITLE
DEMOLITION & NEW WORK FIRST FLOOR PLANS

SHEET NUMBER
A310

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

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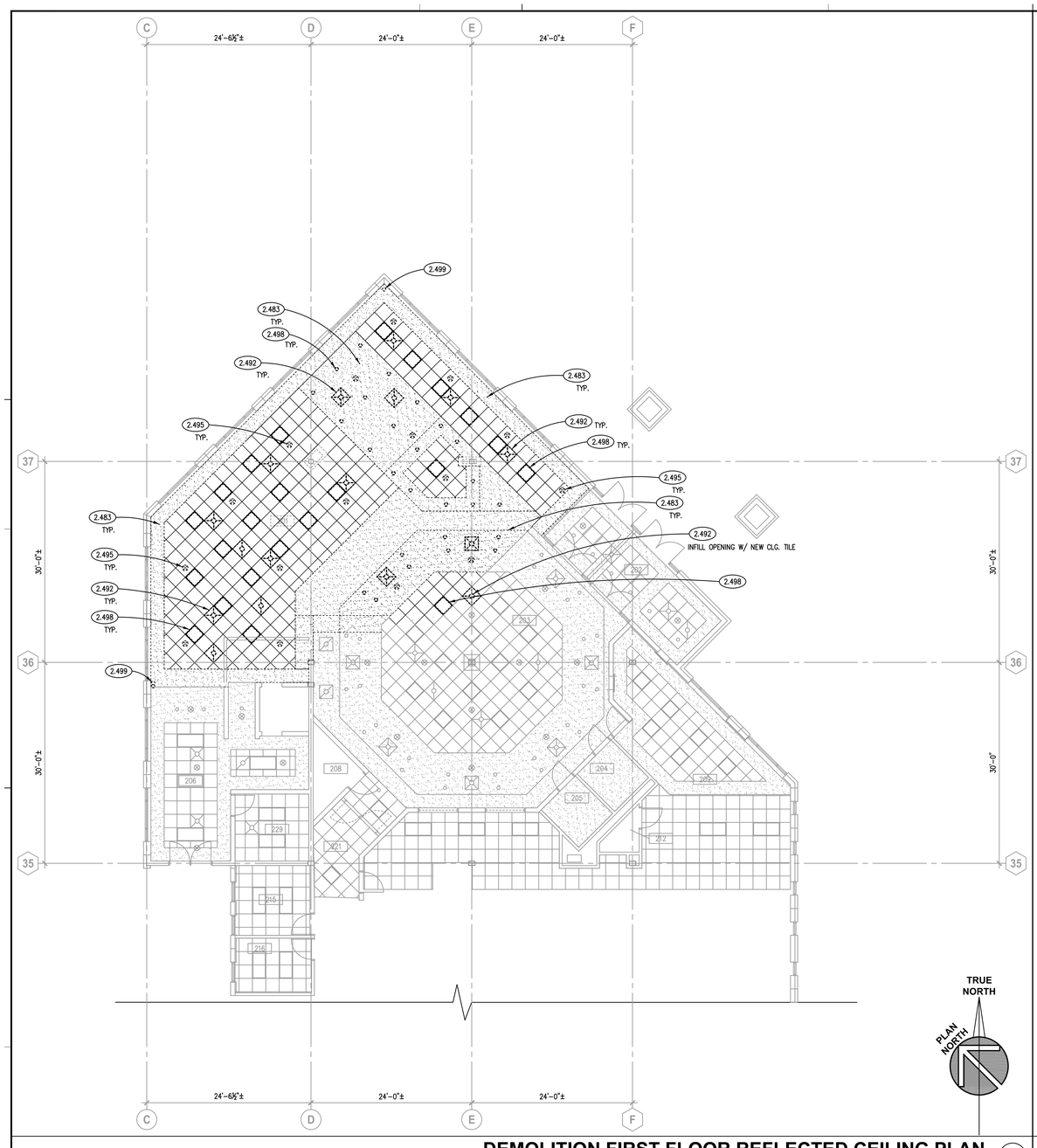
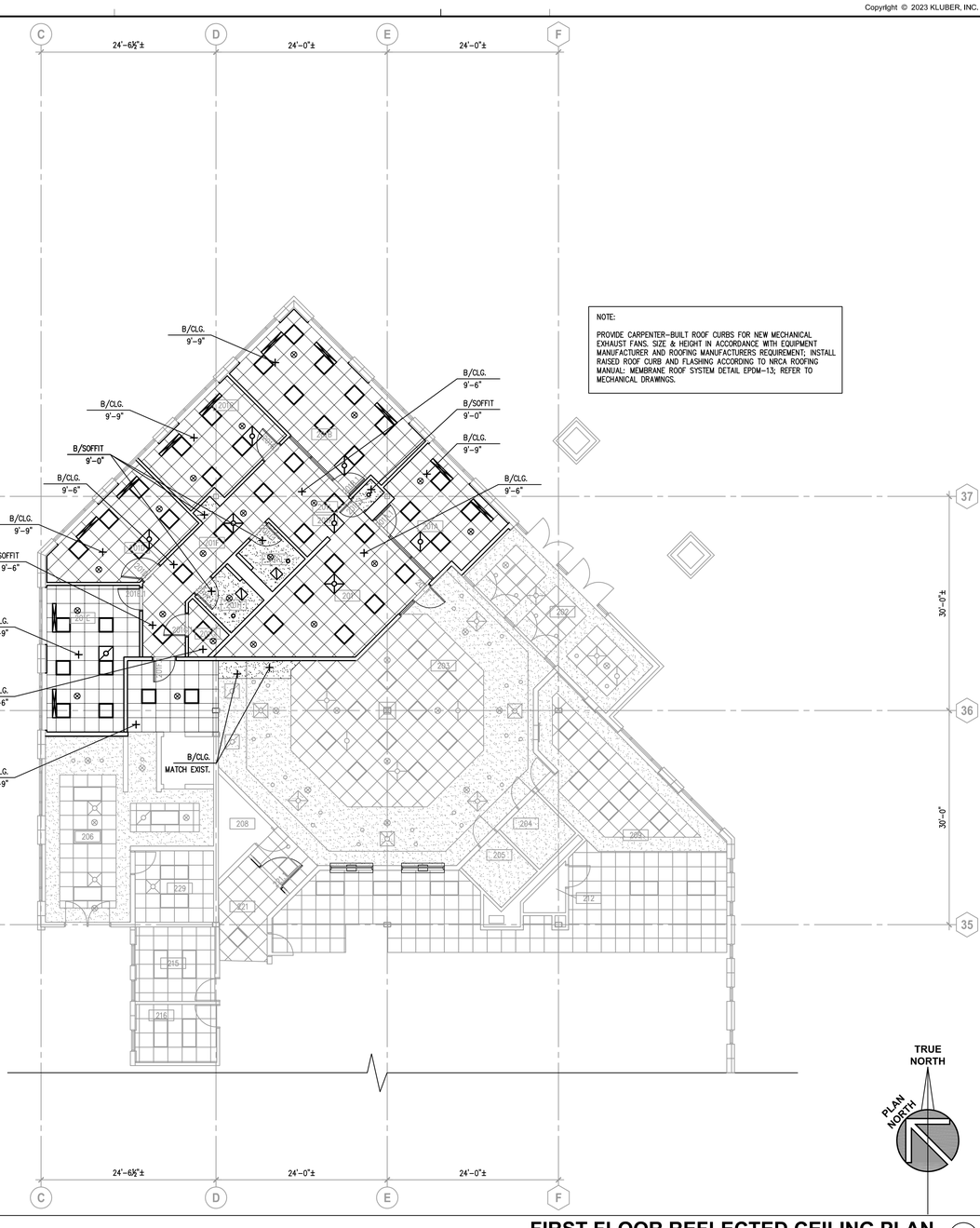


DEMOLITION FIRST FLOOR REFLECTED CEILING PLAN (1)

SCALE: 1/8" = 1'-0"



NOTE:

PROVIDE CARPENTER-BUILT ROOF CURBS FOR NEW MECHANICAL EXHAUST FANS. SIZE & HEIGHT IN ACCORDANCE WITH EQUIPMENT MANUFACTURER AND ROOFING MANUFACTURERS REQUIREMENT; INSTALL RAISED ROOF CURB AND FLASHING ACCORDING TO NRCA ROOFING MANUAL: MEMBRANE ROOF SYSTEM DETAIL EPDM-13; REFER TO MECHANICAL DRAWINGS.

FIRST FLOOR REFLECTED CEILING PLAN (2)

SCALE: 1/8" = 1'-0"

CEILING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GYPSUM BOARD		MECHANICAL DIFFUSER: SUPPLY
			MECHANICAL DIFFUSER: RETURN
	ACOUSTICAL CEILING TILE: 2' X 2'		MECHANICAL DIFFUSER: EXHAUST
			MECHANICAL DIFFUSER: LINEAR SUPPLY
			COMBINATION LIGHT/EXHAUST FAN
			LIGHT FIXTURE: 24" X 24"
			LIGHT FIXTURE
		A B C D	SPRINKLER HEADS A: PENDANT B: UPRIGHT C: CONCEALED D: SIDEWALL
		A B C D	DOWN LIGHT FIXTURES A: SPOT B:DOWN C:WALL WASHER D:SCONCE

KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

2.483 REMOVE EXISTING INTERIOR CEILING FINISH: DRYWALL SOFFIT AND FRAMING.
2.492 REMOVE EXISTING MECHANICAL SYSTEM COMPONENT: CEILING DIFFUSER/GRILLE.
2.495 REMOVE & REPLACE EXISTING SPRINKLER HEAD: EXTEND TAKEOFF OR PROVIDE NEW ARM INTO NEW CEILING LOCATION.
2.498 REMOVE EXISTING LIGHT FIXTURE.
2.499 REMOVE EXISTING SECURITY DEVICE: CAMERA.

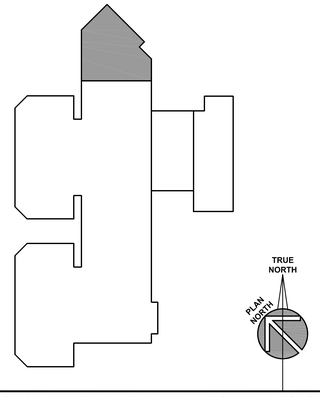
GENERAL NOTES

1. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
2. COORDINATE FIRE RATED ASSEMBLIES INFORMATION CONTAINED ON DRAWING G300 WITH THE WORK OF ALL CONTRACTS.
3. SPOT ELEVATIONS ARE DESIGNATED NOMINAL HEIGHTS ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. COORDINATE FINAL HEIGHTS OF CEILING ELEMENTS WITH INFORMATION CONTAINED ON STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL DRAWINGS.
4. PROVIDE GYPSUM BOARD HEADERS TO FORM VERTICAL SOFFITS AT CHANGES OF ACOUSTICAL CEILING HEIGHTS UNLESS NOTED OR DETAILED OTHERWISE.

ROOM SCHEDULE

RM. NO.	ROOM NAME	RM. NO.	ROOM NAME
201	SHARED OFFICE	201K	KITCHENETTE
201A	OFFICE	201L	CLOSET
201B	CONFERENCE ROOM	203	EXISTING LOBBY
201C	OFFICE	221	EXISTING CORRIDOR
201D	OFFICE		
201E	OFFICE		
201F	CORRIDOR		
201G	CLOSET		
201H	RESTROOM		
201J	RESTROOM		

KEY PLAN



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APPROVED	CDH

SHEET TITLE

DEMOLITION & NEW WORK FIRST FLOOR REFLECTED CEILING PLAN

SHEET NUMBER

A410

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

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DOOR AND FRAME SCHEDULE

ROOM NO.	ROOM NAME	DOOR NO.	DOOR QTY.	DOOR W	DOOR H	DOOR THK.	DOOR TYPE	DOOR HAND	DOOR MAT.	STEEL DOORS GA.	STEEL DOORS MDL.	STEEL DOORS CORE	WOOD DOORS FINISH	WOOD DOORS GLASS	FRAME TYPE	FRAME MAT.	FRAME GA.	FRAME FINISH	FRAME GLASS	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	HDWR SET	FIRE RATING (MIN.)	REMARKS
201	SHARED OFFICE	201.1	1	3'-0"	7'-2"	1-3/4"	F	RHR	STL	14	1	BA	–	–	P5	–	3	STL	14	–	BG1	8/A1100	–	–	1	–	1
201A	OFFICE	201A.1	1	3'-0"	7'-0"	1-3/4"	F	LH	WD	–	–	–	P	PC5	←MATCH EXISTING→		P5	–	2	AL	–	–	FG1,EC1	4/A1100	4/A1100 SIM.	–	2	–	2
201B	CONFERENCE ROOM	201B.1	1	3'-0"	7'-0"	1-3/4"	F	RH	WD	–	–	–	P	PC5	←MATCH EXISTING→		P5	–	2	AL	–	–	FG1,EC1	4/A1100	3/A1100	–	2	–	2
201C	OFFICE	201C.1	1	3'-0"	7'-0"	1-3/4"	F	RH	WD	–	–	–	P	PC5	←MATCH EXISTING→		P5	–	1	STL	16	–	–	6/A800	5/A800	–	2	–	2
201D	OFFICE	201D.1	1	3'-0"	7'-0"	1-3/4"	F	LH	WD	–	–	–	P	PC5	←MATCH EXISTING→		P5	–	1	STL	16	–	–	6/A800	5/A800	–	2	–	2
201E	OFFICE	201E.1	1	3'-0"	7'-0"	1-3/4"	F	RH	WD	–	–	–	P	PC5	←MATCH EXISTING→		P5	–	1	STL	16	–	–	6/A800	5/A800	–	2	–	2
201F	CORRIDOR	201F.1	1	3'-0"	7'-2"	1-3/4"	F	LHR	STL	18	1	PU	–	–	P5	–	1	STL	16	–	–	7/A1100	–	–	5	–	3
201G	CLOSET	201G.1	1	3'-0"	7'-0"	1-3/4"	F	RHR	WD	–	–	–	P	PC5	←MATCH EXISTING→		P5	–	1	STL	16	–	–	6/A1100	5/A1100	–	4	–	2
201H	RESTROOM	201H.1	1	3'-0"	7'-0"	1-3/4"	F	RH	WD	–	–	–	P	PC5	←MATCH EXISTING→		P5	–	1	STL	16	–	–	6/A800	5/A800	–	3	–	2
201J	RESTROOM	201J.1	1	3'-0"	7'-0"	1-3/4"	F	LH	WD	–	–	–	P	PC5	←MATCH EXISTING→		P5	–	1	STL	16	–	–	6/A800	5/A800	–	3	–	2
201K	KITCHENETTE	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–
201L	CLOSET	201L.1	1	2'-4"	7'-0"	1-3/4"	F	LHR	WD	–	–	–	P	PC5	←MATCH EXISTING→		P5	–	1	STL	16	–	–	6/A800	5/A800	–	4	–	2
203	EXISTING LOBBY	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–
221	EXISTING CORRIDOR	221.1	1	4'-0"	7'-0"	1-3/4"	F	–	STL	18	1	PU	–	–	–		1	STL	16	–	–	6/A800	5/A800	–	6	–	3

KEYNOTES

KEYNOTES ARE NOT ALWAYS REPEATED ACROSS ALL DRAWINGS ON THIS SHEET. AN UN-KEYNOTED ITEM ON THIS SHEET IS THE SAME AS A KEYNOTED ITEM ON THIS SHEET HAVING THE SAME GRAPHIC APPEARANCE.

1.160 OWNER-FURNISHED ITEM TO BE INSTALLED BY CONTRACTORS: OFFICE EQUIPMENT; TV MONITOR; PROVIDE ADEQUATE BLOCKING TO SUPPORT NEW TV MONITOR.
1.181 OWNER-FURNISHED ITEM TO BE INSTALLED BY CONTRACTORS: RESIDENTIAL EQUIPMENT; REFRIGERATOR.
1.182 OWNER-FURNISHED ITEM TO BE INSTALLED BY CONTRACTORS: RESIDENTIAL EQUIPMENT; MICROWAVE.

2.120 EXISTING COUNTERTOP TO REMAIN.

6.411 CUSTOM CASEWORK: PLASTIC LAMINATE; BASE CABINETS; REFER TO CUSTOM CASEWORK SCHEDULE.
6.412 CUSTOM CASEWORK: PLASTIC LAMINATE; WALL CABINETS; REFER TO CUSTOM CASEWORK SCHEDULE.
6.414 CUSTOM CASEWORK: PLASTIC LAMINATE; MAIL SLOTS; FULLY LAMINATED BOX AND 3/4" VERTICAL DIVIDERS; 1/4" HARDBOARD SHELVES ADJUSTABLE ON 1" CENTERS, SUPPORTED BY METAL PINS. CONFIGURATION AND QUANTITY AS SHOWN, 12" DEEP COMPARTMENTS, TYPICAL.
6.419 CUSTOM CASEWORK: PLASTIC LAMINATE; FILLER PANEL, SIZE AS REQUIRED.

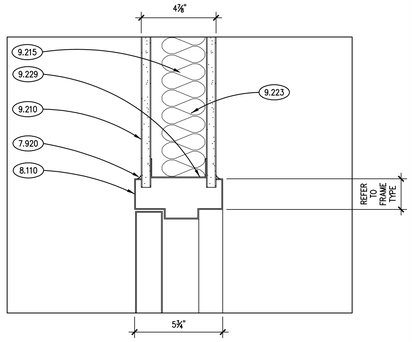
7.920 JOINT SEALANT: REFER TO SCHEDULE IN SPECIFICATION SECTION 07 92 00; PROVIDE BACKER ROD OR BOND BREAKER.

8.110 DOOR FRAME: REFER TO DOOR, FRAME AND BORROWED LIGHT SCHEDULE.

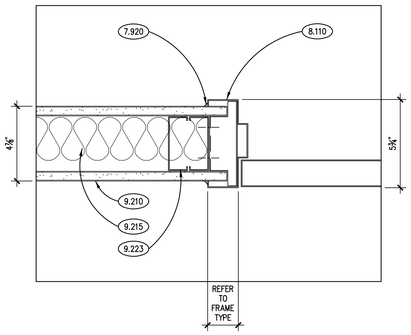
9.210 GYPSUM BOARD: 5/8" THICK; TYPE "X".
9.215 GYPSUM BOARD ACCESSORY: ACOUSTICAL INSULATION: SOUND ATTENUATION BATTS; THICKNESS AS SPECIFIED.
9.223 METAL STUD FRAMING: 3-5/8" STUD; 16" O.C. SPACING; 20 GAUGE UNLESS NOTED OTHERWISE; ANCHORAGE TO SUIT APPLICATION.
9.229 METAL STUD FRAMING: STUD RUNNER; SIZE TO MATCH METAL STUDS.
9.300 PORCELAIN WALL TILE: REFER TO A800 FOR FINISH SCHEDULE.
9.301 PORCELAIN WALL TILE ACCESSORY: TRIM; REFER TO SPECIFICATIONS.
9.651 RESILIENT BASE: REFER TO SPECIFICATIONS.

10.440 FIRE PROTECTION SPECIALTY: FIRE EXTINGUISHER AND CABINET.

12.360 COUNTERTOP: PLASTIC LAMINATE; 1-1/4" EDGE THICKNESS, U.N.O.
12.374 COUNTERTOP BACK/SIDE SPLASH: 4" HIGH; SAME MATERIAL AS COUNTERTOP.



HEAD DETAIL 6
SCALE: 3" = 1'-0"



JAMB DETAIL 5
SCALE: 3" = 1'-0"

DOOR SCHEDULE ABBREVIATIONS

DOOR / FRAME MATERIAL	
AL	ALUMINUM
STL	STEEL
WD	WOOD
SPECIAL DOOR TYPES	
AC	ACCORDION
AP	ACCESS PANEL
DK	DARKROOM REVOLVING
HS	OVERHEAD HIGH-SPEED
OR	OVERHEAD ROLLING
OS	OVERHEAD SECTIONAL
RV	REVOLVING
SG	OVERHEAD SECURITY GRILLE
DOOR / FRAME FINISHES	
A	ANODIZED
P_	PAINTED – SEE FIN. SCHED.
S_	STAINED – SEE FIN. SCHED.

STEEL DOOR GAGE	
20	LEVEL 1 – STD. DUTY
18	LEVEL 2 – HEAVY DUTY
16	LEVEL 3 – EXTRA HVY. DUTY
14	LEVEL 4 – MAXIMUM DUTY
STEEL DOOR MODEL	
1	FULL FLUSH
2	SEAMLESS
3	STILE & RAIL
STEEL DOOR CORE	
HC	HONEYCOMB
MB	MINERAL BOARD
PS	POLYSTYRENE
PU	POLYURETHANE
SS	STEEL STIFFENERS
BA	BALLISTIC ARMOR

WOOD DOOR GRADE	
P	PREMIUM
C	CUSTOM
E	ECONOMY
WOOD DOOR CORE	
HC	HONEYCOMB
MB	MINERAL BOARD
PC5	5-PLY PARTICLE BOARD
SC	SOUND-RATED
WOOD DOOR VENEER	
BW	BIRCH – WHITE (SAPWOOD)
HB	PRIMED HARDBOARD
HPDL	DECORATIVE LAMINATE
MW	MAPLE – WHITE (SAPWOOD)
OR	RED OAK
OW	WHITE OAK
PO	POPLAR

WOOD DOOR VENEER CUTS	
PS	PLAIN SLICED
QS	QUARTER SLICED
RC	RIFT CUT
R	ROTARY CUT
WOOD DOOR VENEER MATCHING	
BK	BOOK MATCH
SL	SLIP MATCH
RAN	RANDOM MATCH
E	END MATCH
CON	CONTINUOUS MATCH
RUN	RUNNING MATCH
BAL	BALANCE MATCH
CB	CENTER BALANCE MATCH
P	PAIR MATCH
S	SET MATCH

DOOR HARDWARE SCHEDULE

SET NO.	HINGES	LOCK SET	EXIT DEVICE	CLOSER	HOLDER	STOP	THRES-HOLD	KICK PLATE	MOP PLATE	WEATHER STRIPPING	SWEEP	PUSH/ PULL	REMOV. MULLION	REMARKS
1	YES	YES	YES	YES	–	W/CLOSER	–	–	–	–	–	–	–	1
2	YES	YES	–	–	–	WALL	–	–	–	–	–	–	–	2
3	YES	YES	–	YES	–	WALL	–	YES	–	–	–	–	–	3
4	YES	YES	–	–	–	OVERHEAD	–	–	–	–	–	–	–	4
5	YES	YES	YES	YES	–	W/CLOSER	–	YES	–	–	–	–	–	5
6	YES	YES	YES	YES	–	W/CLOSER	–	YES	–	–	–	–	–	6

HARDWARE SCHEDULE REMARKS

1. STOREROOM FUNCTION LOCKSET; PROXIMITY CARD READER.
2. OFFICE FUNCTION LOCKSET.
3. PRIVACY FUNCTION LOCKSET WITH INDICATOR.
4. STOREROOM FUNCTION LOCKSET.
5. STOREROOM FUNCTION LOCKSET; PROXIMITY CARD READER.
6. STOREROOM FUNCTION LOCKSET; REUSE EXISTING PROXIMITY CARD READER.

HARDWARE MOUNTING HEIGHTS

HARDWARE COMPONENT	PREFERRED MOUNTING HEIGHT FROM BOTTOM OF DOOR FRAME	ACCEPTABLE RANGE IF PREFERRED MOUNTING HEIGHT NOT POSSIBLE
LOCKSETS, LATCHSETS	39" TO CENTERLINE OF LEVER	38" TO 42"
EXIT DEVICES	39" TO CENTERLINE OF PUSH PAD	38" TO 42"
DEADBOLT LOCKS	46" TO CENTERLINE OF CYLINDER	30" TO 48"
PUSH PLATES	45" TO CENTERLINE OF PUSH PLATE	N/A
PULLS, COMBINATION PUSH/PULL BARS	42" TO CENTERLINE OF PULL/BAR	N/A
ROLLER LATCHES	45" TO CENTERLINE OF LATCH STRIKE	N/A

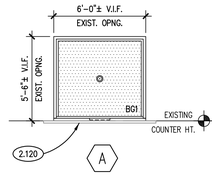
DOOR SCHEDULE REMARKS

1. PREP DOOR AND FRAME FOR ELECTRIC STRIKE; BULLET RESISTANT DOOR & FRAME.
2. PAINT DOOR TYPE PTC.
3. PREP DOOR AND FRAME FOR ELECTRIC STRIKE.

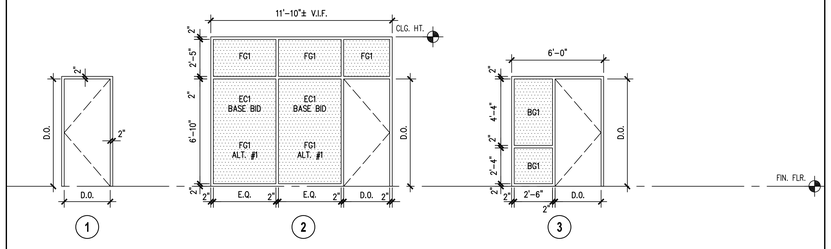
ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FIN.	FLOOR CC.	BASE FIN.	BASE CC.	WALLS N/NW FIN.	WALLS N/NW CC.	WALLS S/SE FIN.	WALLS S/SE CC.	WALLS E/NE FIN.	WALLS E/NE CC.	WALLS W/SW FIN.	WALLS W/SW CC.	CEILING FIN.	CEILING CC.	REMARKS
201	SHARED OFFICE	F1/F2	LVTA/CPTA	B1	VBA	P1	PTA	P1	PTA	P1	PTA	P1	PTA	C1	ACT1	
201A	OFFICE	F2	CPTA	B1	VBA	P1	PTA	P1	PTA	P1	PTA	P1	PTA	C1	ACT1	
201B	CONFERENCE ROOM	F2	CPTA	B1	VBA	P1	PTA	P1	PTA	P1	PTA	P1	PTA	C1	ACT1	
201C	OFFICE	F2	CPTA	B1	VBA	P1	PTA	P1	PTA	P1	PTA	P1	PTA	C1	ACT1	
201D	OFFICE	F2	CPTA	B1	VBA	P1	PTA	P1	PTA	P1	PTA	P1	PTA	C1	ACT1	
201E	OFFICE	F2	CPTA	B1	VBA	P1	PTA	P1	PTA	P1	PTA	P1	PTA	C1	ACT1	
201F	CORRIDOR	F1	LVTA	B1	VBA	P1	PTA	P1	PTA	P1	PTA	P1	PTA	C1/P1	ACT1/CP1	
201G	CLOSET	F1	LVTA	B1	VBA	P1	PTA	P1	PTA	P1	PTA	P1	PTA	C1	ACT1	
201H	RESTROOM	F1	LVTA	B1	VBA	P1	PTA	P1	PTA	P1/W1	PTA/TW1	P1	PTA	P1	CP1	
201J	RESTROOM	F1	LVTA	B1	VBA	P1	PTA	P1	PTA	P1	PTA	P1/W1	PTA/TW1	P1	CP1	
201K	KITCHENETTE	F1	LVTA	B1	VBA	P1	PTA	P1	PTA	P1	PTA	P1	PTA	C1	ACT1	
201L	CLOSET	F1	LVTA	B1	VBA	P1	PTA	P1	PTA	P1	PTA	P1	PTA	P1	CP1	
203	EXISTING LOBBY	F3	VCTA	B1	VBA	P1	PTB	–	–	–	–	–	–	–	–	
221	EXISTING CORRIDOR	–	–	B1	VBA	–	–	–	–	P1	–	–	–	–	–	

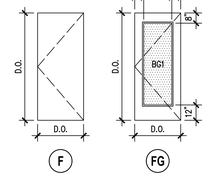
WINDOW TYPES



FRAME TYPES



DOOR TYPES



FINISH TYPES

AREA	FIN.	DESCRIPTION	AREA	FIN.	DESCRIPTION
FLOOR	F1	LUXURY VINYL TILE	CEILING	C1	ACT1: 24"X24"; SS1: METAL SUSPENSION SYSTEM
	F2	CARPET TILE			
	F3	VINYL COMPOSITION TILE			
BASE	B1	RESILIENT BASE: 4" COVE			
WALLS	W1	PORCELAIN TILE	PAINT	P1	LATEX – "EGGSHELL" OR "SATIN"
				P2	LATEX – "SEMI-GLOSS"
				P3	NOT USED
GLASS	FG1	1/4" SAFETY GLASS; TEMPERED; CLEAR		P4	NOT USED
	EC1	SWITCHABLE LAMINATED SAFETY GLASS		P5	PREFINISHED: REFER TO SPECS.
	BG1	SECURITY GLAZING; LAMINATED GLASS; LEVEL IV			

COLOR CODE SCHEDULE

AREA	COLOR CODE	MATERIAL	MANUFACTURER	DESCRIPTION
FLOORING	CPTA	CARPET TILE	J & J FLOORING	PRODUCT: TWEED 7083 COLOR: HEM 2980
				SIZE: 12"X48" INSTALLATION: ASHLAR
	LVTA	LUXURY VINYL TILE	J & J FLOORING	PRODUCT: CLASSICS COLOR: NOTABLE 1000
				SIZE: 9"X48" INSTALLATION: ASHLAR
	VCTA	VINYL COMPOSITION TILE	ARMSTRONG	TO MATCH EXISTING
WALL BASE	VBA	VINYL BASE	JOHNSONITE	STYLE B TYPE: COVE
				COLOR: 283 TOAST
WALLS	TW1	PORCELAIN TILE	CROSSVILLE	PRODUCT: PORTUGAL SIZE: 12"X24"
				COLOR: VELHO WHITE
				PATTERN: RUNNING BOND HORIZONTAL
				GROUT-A: #39 MUSHROOM
	PTA	PAINT	SHERWIN WILLIAMS	COLOR: SW 9165 GOSSAMER VEIL
	PTB	PAINT	SHERWIN WILLIAMS	COLOR: SW7005 PURE WHITE
	PTC	PAINT	SHERWIN WILLIAMS	COLOR: SW7020 BLACK FOX
CEILINGS	ACT1	ACOUSTIC CEILING TILE	ARMSTRONG	ULTIMA BEVELED TEGULAR 1911
	CP1	PAINTED GYPSUM BOARD	SHERWIN WILLIAMS	COLOR: SW 9165 GOSSAMER VEIL
COUNTERTOP MATERIAL	PLAM1	PLASTIC LAMINATE	WILSONART	COLOR: ORGANIC COTTON
MILLWORK	PLAM2	PLASTIC LAMINATE	WILSONART	COLOR: FRISTON ASH 8229K-79
				RIDGEWOOD TEXTURE FINISH

TOILET ACCESSORY SCHEDULE

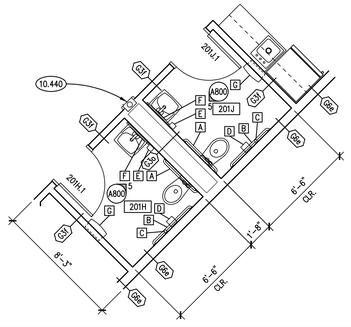
MARK	DESCRIPTION	CAT. NO.	REMARKS	MOUNTING HEIGHTS
A	S.S. GRAB BAR – 36"	3800-36	SNAP-ON FLANGE COVER	SEE SHEET G201
B	S.S. GRAB BAR – 42"	3800-42	SNAP-ON FLANGE COVER	SEE SHEET G201
C	S.S. GRAB BAR – 18" (VERTICAL)	3800-18	SNAP-ON FLANGE COVER	SEE SHEET G201
D	TOILET ROLL DISPENSER	0030	2	19" MAXIMUM TO CENTERLINE
E	WALL MOUNTED SOAP DISPENSER	5001-SS	SURF. MTD.	44" MAXIMUM CONTROLS
F	CHANNEL FRAME MIRROR	0620	24" X 30"	40" TO BOTTOM
G	PAPER TOWEL DISPENSER/WASTE RECEPTACLE COMBO UNIT	0469	RECESSED	48" TO TOP EDGE OF TOWEL DISPENSER

TOILET ACCESSORY GENERAL NOTES

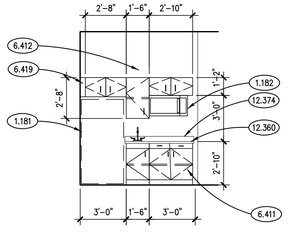
1. A.S.I. CATALOG NUMBERS ARE USED FOR REFERENCE ONLY, UNLESS OTHERWISE NOTED.
2. MOUNTING HEIGHTS PER ADA-AG (AMERICAN'S WITH DISABILITIES ACT ACCESSIBILITIES GUIDELINES).
3. MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO HEIGHT INDICATED.

GENERAL NOTES

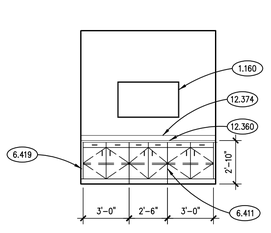
1. REFER TO A400 SERIES REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
2. REFER TO ROOM FINISH SCHEDULE FOR SPECIFIC DOOR AND FRAME FINISHES AND GLAZING TYPES.



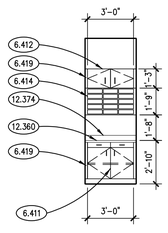
ENLARGED PLAN 1
SCALE: 1/4" = 1'-0"



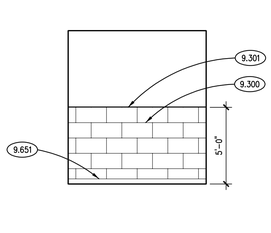
INTERIOR ELEVATION 2
SCALE: 1/4" = 1'-0"



INTERIOR ELEVATION 3
SCALE: 1/4" = 1'-0"



INTERIOR ELEVATION 4
SCALE: 1/4" = 1'-0"



WALL TILE PATTERN 5
SCALE: 1/4" = 1'-0"

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ISSUED
BID DOCUMENTS
05/05/23

JOB NO. 23-471-1466
DRAWN PJT
CHECKED CDH
APPROVED CDH

SHEET TITLE
DOOR, FRAME & HARDWARE SCHEDULES, TOILET ACCESSORY & FINISH SCHEDULE

SHEET NUMBER
A800

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

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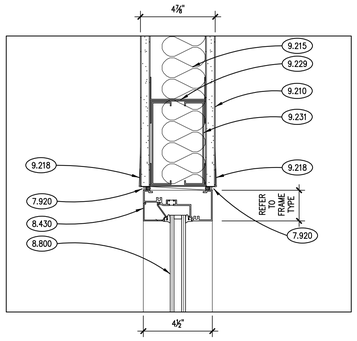
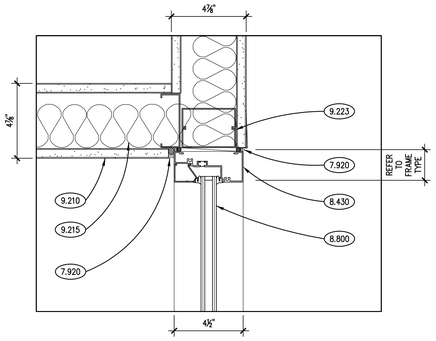
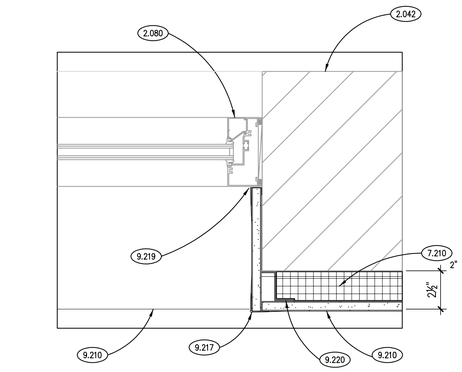


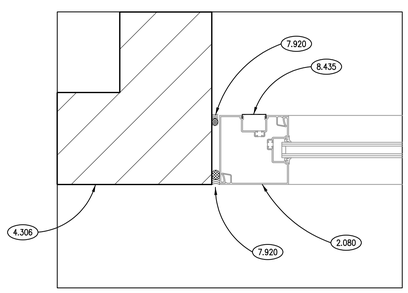
TYP. HEAD DETAIL 4
SCALE: 3" = 1'-0"



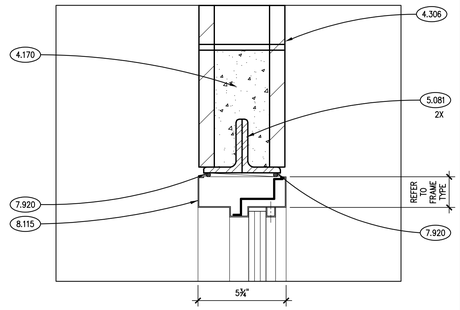
JAMB DETAIL 3
SCALE: 3" = 1'-0"



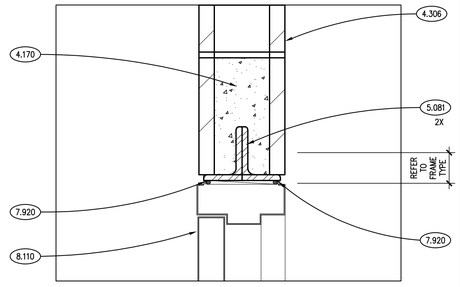
HEAD / JAMB / SILL DETAIL 2
SCALE: 3" = 1'-0"



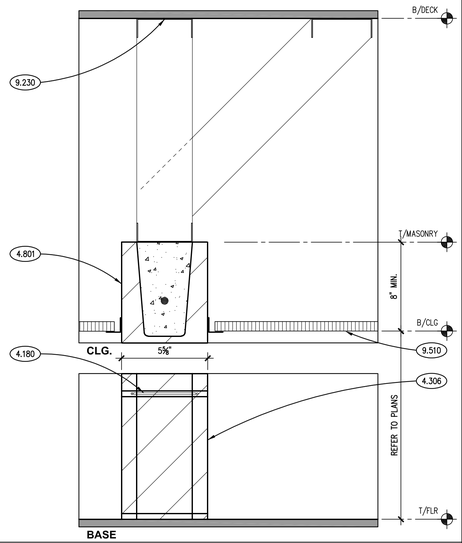
PLAN DETAIL 1
SCALE: 3" = 1'-0"



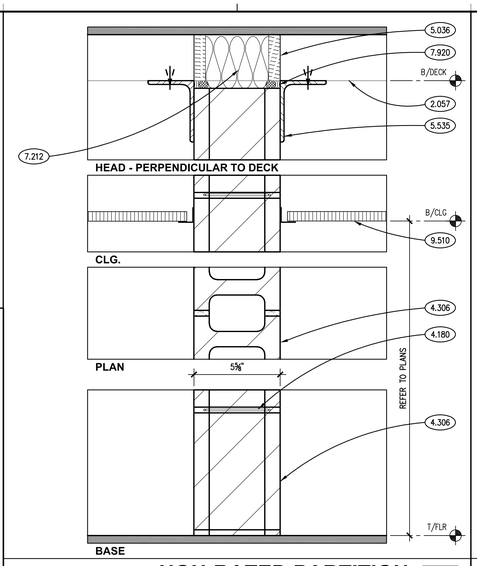
HEAD DETAIL 8
SCALE: 3" = 1'-0"



HEAD DETAIL 7
SCALE: 3" = 1'-0"



NON-RATED PARTITION M6f
SCALE: 3" = 1'-0"



NON-RATED PARTITION M6
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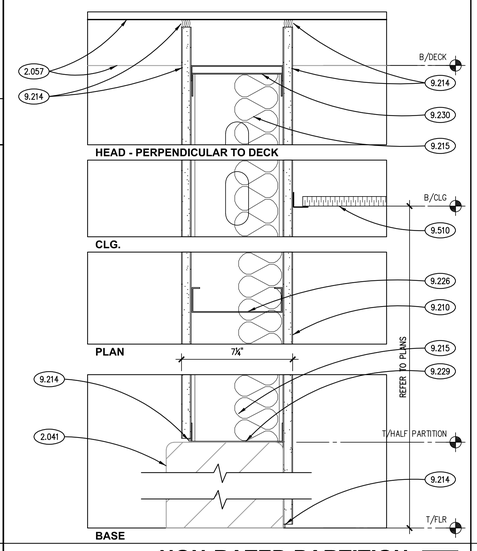
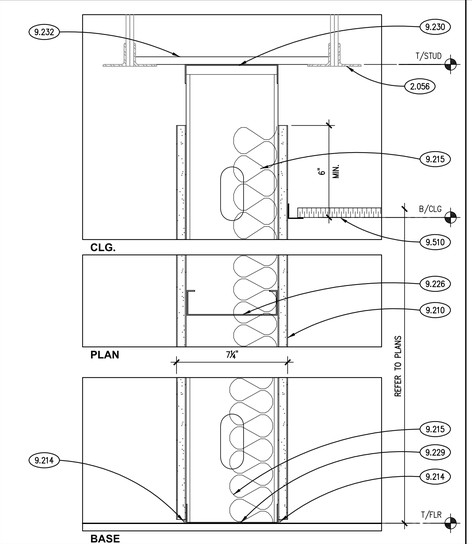
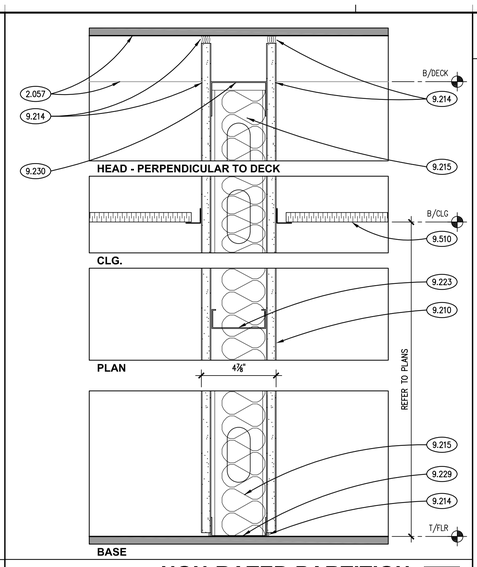


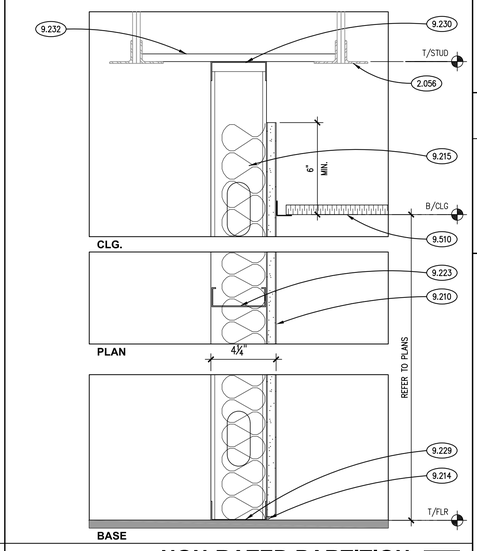
NON-RATED PARTITION G6d
SCALE: 3" = 1'-0"



NON-RATED PARTITION G6e
SCALE: 3" = 1'-0"



NON-RATED PARTITION G3e
SCALE: 3" = 1'-0"



NON-RATED PARTITION G3o
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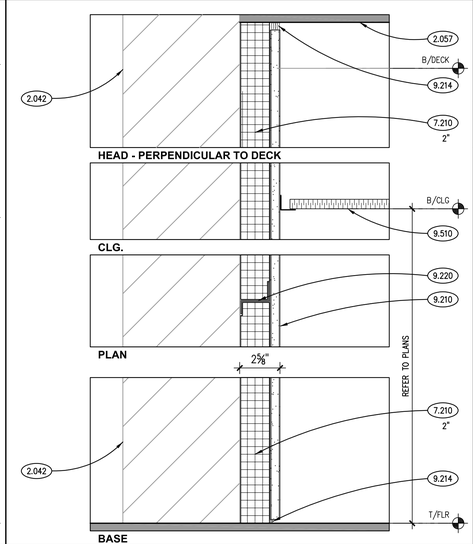


NON-RATED PARTITION G2e
SCALE: 3" = 1'-0"

KEYNOTES

KEYNOTES ARE NOT ALWAYS REPEATED ACROSS ALL DRAWINGS ON THIS SHEET. AN UN-KEYNOTED ITEM ON THIS SHEET IS THE SAME AS A KEYNOTED ITEM ON THIS SHEET HAVING THE SAME GRAPHIC APPEARANCE.

2.041 EXISTING MASONRY WALL.
2.042 EXISTING EXTERIOR WALL.
2.056 EXISTING STEEL JOIST(S).
2.057 EXISTING STEEL DECKING.
2.080 EXISTING ALUMINUM STOREFRONT.
2.081 EXISTING ALUMINUM STOREFRONT GLAZING.

4.170 MASONRY GROUT: CONTINUOUS GROUTED SOLID MASONRY COURSES. REFER TO SPECIFICATIONS.
4.180 MASONRY ANCHORAGE AND REINFORCEMENT: CONTINUOUS JOINT REINFORCEMENT; SINGLE WYTHE; 16" O.C. VERTICAL SPACING.
4.306 CONCRETE BLOCK MASONRY: 6" (NOM.) THK.
4.801 MASONRY ASSEMBLY: CONTINUOUS BOND BEAM WITH REINFORCING AND GROUT. PROVIDE (2)–#4 BARS U.N.O. COORDINATE ELEVATION WITH BEARING CONDITIONS AND ADJACENT WALL CONSTRUCTION; BOND BEAM LENGTH TO BE DISTANCE BETWEEN CONTROL JOINTS.

5.036 STEEL DECK ACCESSORY: FLUTE CLOSURE, MATCH METAL DECK PROFILE.
5.081 METAL FABRICATION: STEEL ANGLE; L 4 x 3 x 5/16.
5.535 METAL FABRICATION: L3–1/2"x2–1/2"x1/4" x 0'-6" LONG (L.L.V.) AT 4'-0" O.C. N.S. AND F.S. ATTACH INTO DECK WITH (2)–#12–14x1/2" LONG SELF DRILLING SCREWS.

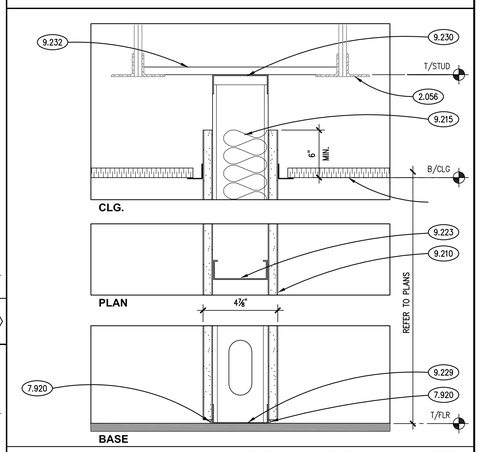
7.210 INSULATION: BOARD; EXTRUDED POLYSTYRENE (XPS); MIN. R-5.4 PER INCH THICKNESS; THICKNESS AS INDICATED.
7.212 INSULATION: THERMAL BATT; UNFACED FIBERGLASS; THICKNESS TO FILL CAVITY, UNLESS INDICATED OTHERWISE; R-VALUE AS INDICATED.
7.910 PRECOMPRESSED FOAM SEAL: REFER TO SPECIFICATIONS.
7.920 JOINT SEALANT: REFER TO SCHEDULE IN SPECIFICATION SECTION 07 92 00; PROVIDE BACKER ROD OR BOND BREAKER.

8.110 DOOR FRAME: REFER TO DOOR, FRAME AND BORROWED LIGHT SCHEDULE.
8.115 STEEL FRAME: BULLET RESISTANT; REFER TO DOOR, FRAME AND BORROWED LIGHT SCHEDULE.
8.430 ALUMINUM STOREFRONT FRAMING.
8.435 ALUMINUM STOREFRONT FRAMING ACCESSORY: GLAZING POCKET CAP; FINISH TO MATCH EXISTING STOREFRONT.
8.800 GLAZING: REFER TO DOOR/FRAME/WINDOW SCHEDULES FOR TYPE.

9.210 GYPSUM BOARD: 5/8" THICK; TYPE "X".
9.214 GYPSUM BOARD ACCESSORY: ACOUSTICAL SEALANT.
9.215 GYPSUM BOARD ACCESSORY: ACOUSTICAL INSULATION: SOUND ATTENUATION BATTS; THICKNESS AS SPECIFIED.
9.217 GYPSUM BOARD ACCESSORY: CORNER BEAD.
9.218 GYPSUM BOARD ACCESSORY: EDGE TRIM; "L" PROFILE.
9.219 GYPSUM BOARD ACCESSORY: EDGE TRIM; "J" PROFILE.
9.220 METAL STUD FRAMING: 2" Z–FURRING, 24" O.C. SPACING; 20 GAUGE UNLESS NOTED OTHERWISE; ANCHORAGE TO SUIT APPLICATION.
9.223 METAL STUD FRAMING: 3–5/8" STUD; 16" O.C. SPACING; 20 GAUGE UNLESS NOTED OTHERWISE; ANCHORAGE TO SUIT APPLICATION.
9.226 METAL STUD FRAMING: 6" STUD; 16" O.C. SPACING; 20 GAUGE UNLESS NOTED OTHERWISE; ANCHORAGE TO SUIT APPLICATION.
9.229 METAL STUD FRAMING: STUD RUNNER; SIZE TO MATCH METAL STUDS.
9.230 METAL STUD FRAMING: DEFLECTION RELIEF DEEP–LEG STUD RUNNER WITH SLOTTED HOLES.
9.231 METAL STUD FRAMING: BOX BEAM; 5.5" x WIDTH OF METAL STUDS; ANCHORAGE TO SUIT APPLICATION.
9.232 METAL STUD FRAMING: STUD BLOCKING AS REQUIRED; MATCH STUD SIZE, GAUGE & SPACING; ATTACH TO EXISTING JOIST FRAMING WITH (2) – #10 TEK SCREWS @ EACH END TYPICAL.
9.510 ACOUSTICAL CEILING PANELS AND GRID.

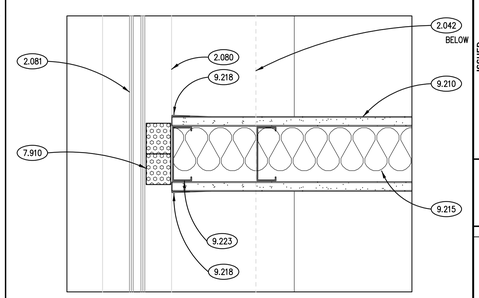
GENERAL NOTES

1. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES
2. REFER TO A400 SERIES REFLECTED CEILING PLAN DRAWINGS FOR BOTTOM OF CEILING ELEVATIONS.
3. WHERE TOPS OF NON–RATED WALLS OR PARTITIONS ARE EXPOSED TO VIEW, NEATLY PROVIDE PAINTABLE JOINT SEALANT THAT SEALS THE GAP BETWEEN TOP OF PARTITION AND THE UNDERSIDE OF DECK OR STRUCTURE ABOVE.
4. REGARDLESS OF DRYWALL PARTION TYPE DESCRIPTION, PROVIDE CEMENT BOARD IN LIEU OF GYPSUM BOARD AT LOCATIONS SCHEDULED TO RECEIVE PORCELAIN WALL TILE.



BRACE TOP OF WALL BACK TO UNDERSIDE OF DECK ABOVE

NON-RATED PARTITION G3f
SCALE: 3" = 1'-0"



PLAN DETAIL 9
SCALE: 3" = 1'-0"

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ISSUED
050523 BID DOCUMENTS

JOB NO.	23-471-1466
DRAWN	PJT
CHECKED	CDH
APPROVED	CDH

SHEET TITLE
INTERIOR PARTITION TYPES & DETAILS

SHEET NUMBER
A1100

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

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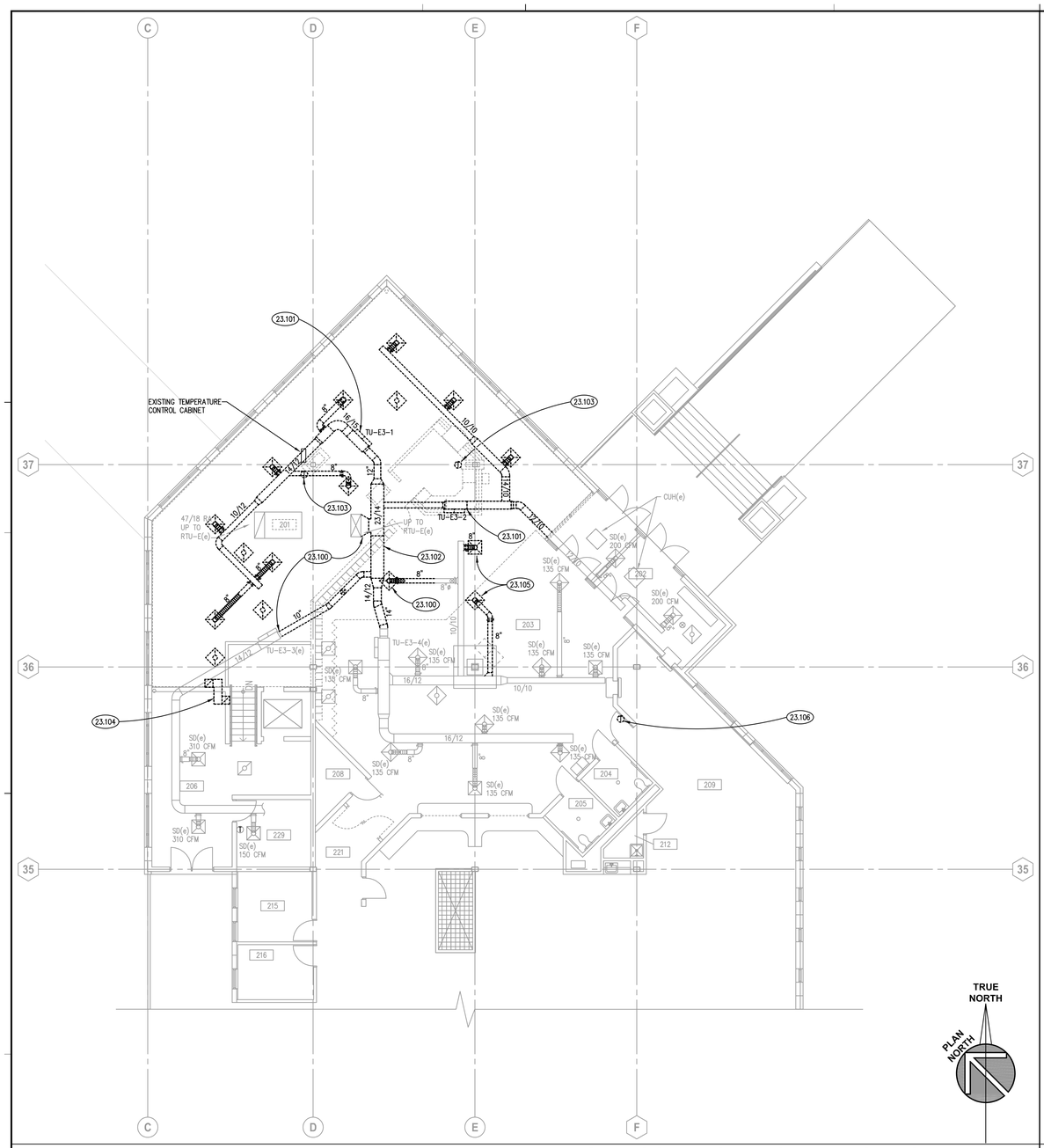
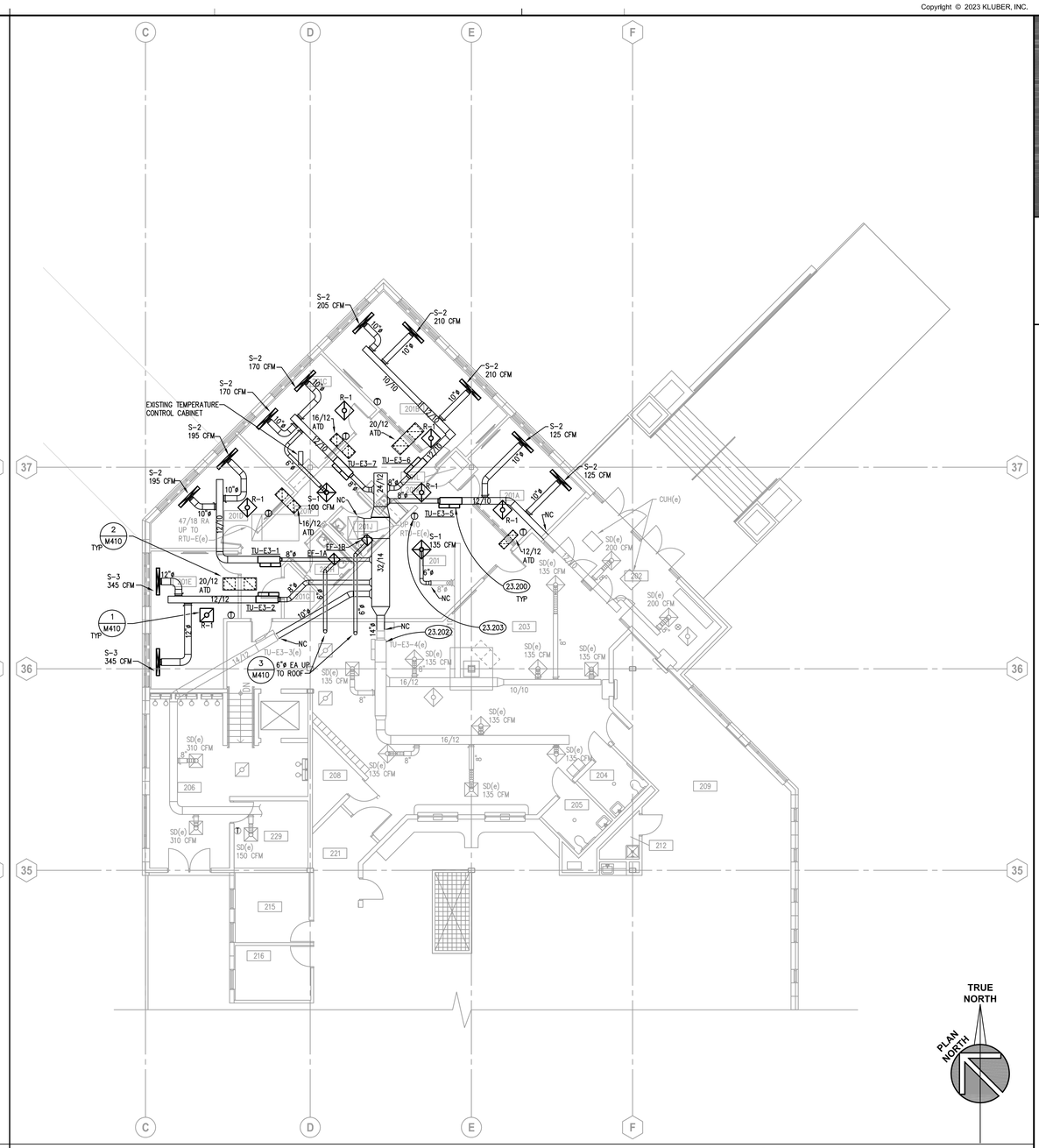


FIRST FLOOR MECHANICAL DEMOLITION PLAN

SCALE: 1/8" = 1'-0" (1)



FIRST FLOOR MECHANICAL PLAN

SCALE: 1/8" = 1'-0" (2)

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KANE COUNTY SHERIFF - ADMINISTRATION WING RENOVATIONS

KANE COUNTY SHERIFF
37W755 IL-38 SUITE A
ST. CHARLES, IL 60175

ROOM SCHEDULE

RM. NO.	ROOM NAME	RM. NO.	ROOM NAME
201	SHARED OFFICE	201K	KITCHENETTE
201A	OFFICE	201L	CLOSET
201B	CONFERENCE ROOM	203	EXISTING LOBBY
201C	OFFICE		
201D	OFFICE		
201E	OFFICE		
201F	CORRIDOR		
201G	CLOSET		
201H	RESTROOM		
201J	RESTROOM		

GENERAL NOTES

1. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
2. ALL DUCTWORK AND RACEWAYS ARE SHOWN DIAGRAMMATICALLY AND DO NOT SHOW ALL REQUIRED FITTINGS, OFFSETS, DROPS AND RISES. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM. COORDINATE WITH OTHER TRADES FOR SPACE AVAILABLE AND RELATIVE LOCATIONS OF EQUIPMENT, DUCTWORK, ETC.
3. EXISTING DUCTWORK AND RACEWAYS INDICATED ON THESE PLANS SHALL BE FIELD VERIFIED FOR EXACT LOCATIONS, QUANTITY AND SIZES.
4. ALL TAPES AND MASTICS USED TO SEAL DUCTWORK LISTED AND LABELED IN ACCORDANCE WITH UL 181A SHALL BE MARKED ACCORDINGLY. ALL TAPES AND MASTICS USED TO SEAL FLEXIBLE DUCTS AND AIR CONNECTORS SHALL COMPLY WITH UL 181B AND MARKED ACCORDINGLY.
5. THERMOSTATIC CONTROLS OF EQUIPMENT SHALL HAVE A 5° F DEADBAND.
6. SPACE ALLOCATION, COORDINATION WITH ELECTRICAL, ARCHITECTURAL & OTHER MECHANICAL COMPONENTS HAVE BEEN MADE WITH RESPECT TO ALL EQUIPMENT SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS OF THE FIRST NAMED MANUFACTURER ONLY. OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS AND AFOREMENTIONED COORDINATION.
7. OBTAIN AND PAY ALL COSTS FOR PERMITS, LICENSES, CERTIFICATE FILING AND ALL INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.

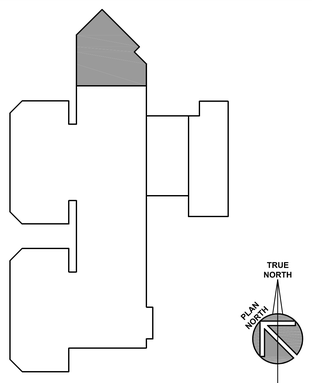
KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

23.100 REMOVE SUPPLY DIFFUSER. REMOVE SUPPLY DUCT BACK TO LOCATION AS SHOWN AND PROVIDE TEMPORARY CAP FOR NEW CONNECTION.
23.101 REMOVE VAV BOX. REMOVE ALL ASSOCIATED POINTS AND GRAPHICS FROM THE BUILDING AUTOMATION SYSTEM.
23.102 REMOVE SUPPLY DUCT MAIN AS SHOWN. PROVIDE TEMPORARY CAP ON SUPPLY DUCT FOR NEW CONNECTION.
23.103 REMOVE THERMOSTAT AND ASSOCIATED WIRING IN ITS ENTIRETY.
23.104 REMOVE AIR TRANSFER DUCT.
23.105 REMOVE SUPPLY DIFFUSER. REMOVE SUPPLY DUCT BACK TO LOCATION AS SHOWN AND PROVIDE PERMANENT CAP.
23.106 DISCONNECT THERMOSTAT WIRING FOR EXISTING VAV BOX AND ABANDON THERMOSTAT IN PLACE.

23.200 INTERFACE ALL NEW VAV BOXES INTO EXISTING JOHNSON CONTROLS FACILITY EXPLORER BUILDING AUTOMATION SYSTEM.
23.202 RE-BALANCE EXISTING VAV BOX TO NEW AIRFLOW AS SHOWN ON DRAWING M410.
23.203 PROVIDE NEW THERMOSTAT FOR EXISTING VAV BOX (TU-E3-4) AS SHOWN. TIE NEW THERMOSTAT INTO EXISTING OPERATION OF VAV BOX.

KEY PLAN



ISSUED
BID DOCUMENTS
05/05/23

JOB NO.	23-471-1466
DRAWN	KJD
CHECKED	BWG
APPROVED	DDW

SHEET TITLE

MECHANICAL FLOOR PLANS

SHEET NUMBER

M310

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

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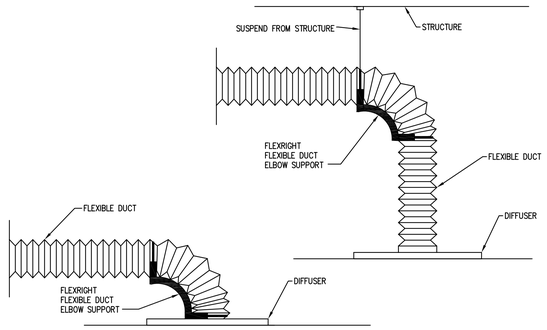
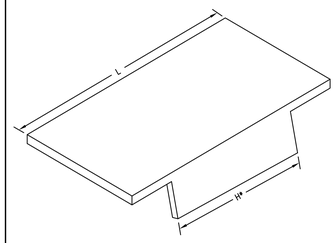


FLEXIBLE DUCT SUPPORT DETAILS (5)
SCALE: NTS

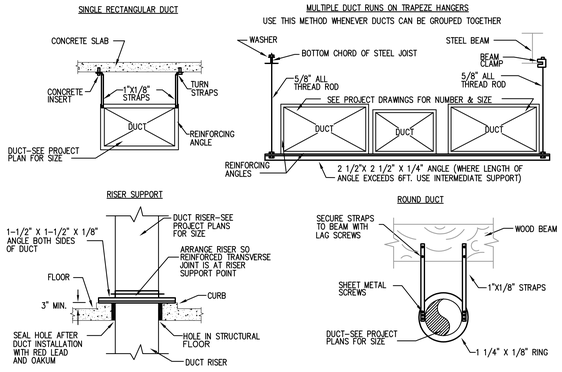


STANDARD DIMENSIONS		
W-WIDTH	H-HEIGHT	D-DEPTH
12	12	7
24	24	7
12	24	7
24	48	7

– ALL DIMENSIONS ARE IN INCHES.

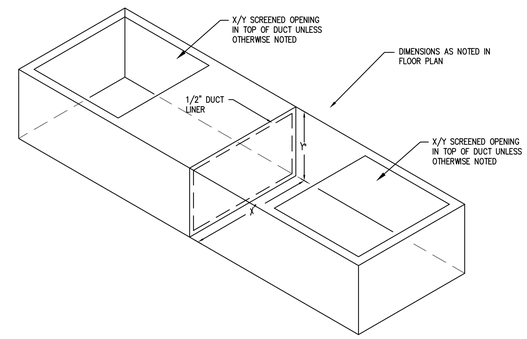
* ACTUAL WIDTH & HEIGHT TYPICALLY ¼ INCH LESS NOMINAL DIMENSIONS.

RETURN AIR CANOPY DETAIL (1)
SCALE: NTS



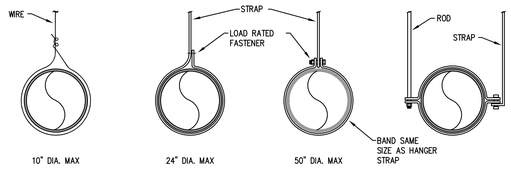
NOTE: DUCTS SHALL BE SUPPORTED AT NOT LESS THAN 10FT O.C.

MEDIUM PRESSURE DUCT SUPPORT (6)
SCALE: NTS

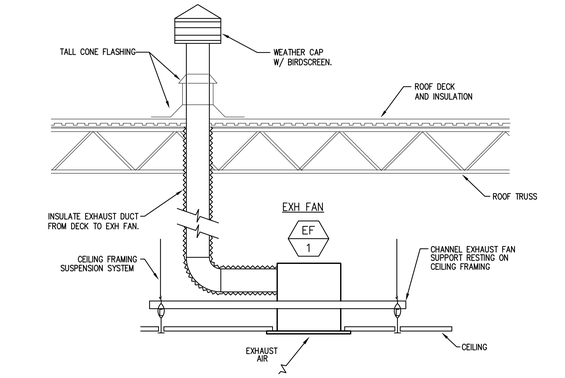


AIR TRANSFER DUCT DETAIL (2)
SCALE: NTS

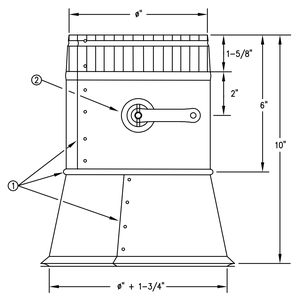
MINIMUM HANGER SIZE FOR ROUND DUCTWORK			
DUCTWORK DIAMETER (INCHES)	12' MAXIMUM SPACING		
	WIRE	ROD	STRAP
UP TO 10	(1) 12 GAGE	1/4"	1" X 22 GAGE
11 – 18	(2) 12 GAGE	1/4"	1" X 22 GAGE
19 – 24	(2) 10 GAGE	1/4"	1" X 22 GAGE
25 – 36	(2) 8 GAGE	3/8"	1" X 20 GAGE
37 – 50	–	(2) 3/8"	(2) 1" X 20 GAGE
51 – 60	–	(2) 3/8"	(2) 1" X 18 GAGE



ROUND DUCTWORK HANGER DETAILS (7)
SCALE: NTS

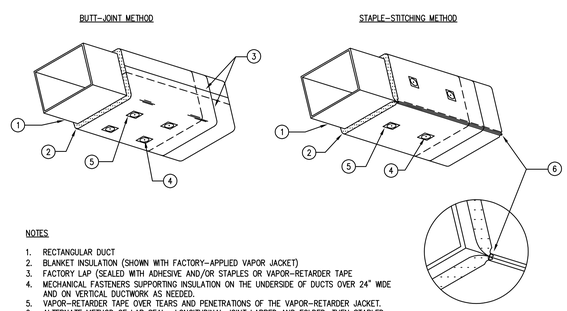


CEILING MOUNTED EXHAUST FAN DETAIL (3)
SCALE: NTS



NOTES
1. TAKE-OFF SEAMS PRE-SEALED WITH EPDM GASKET AND RIVETED.
2. PROVIDE LOCKING LOW LEAKAGE DAMPER, 2" STAND-OFF FOR INSULATION AND LOCKING NUT.
3. TAKE-OFF SHALL DESIGNED AND TESTED TO SURPASS SMACNA CLASS 3 LEAKAGE STANDARDS.

SPIN-IN CONICAL DETAIL (8)
SCALE: NTS



NOTES
1. RECTANGULAR DUCT
2. BLANKET INSULATION (SHOWN WITH FACTORY-APPLIED VAPOR JACKET)
3. FACTORY LAP (SEALED WITH ADHESIVE AND/OR STAPLES OR VAPOR-RETARDER TAPE
4. MECHANICAL FASTENERS SUPPORTING INSULATION ON THE UNDERSIDE OF DUCTS OVER 24" WIDE AND ON VERTICAL DUCTWORK AS NEEDED.
5. VAPOR-RETARDER TAPE OVER TEARS AND PENETRATIONS OF THE VAPOR-RETARDER JACKET.
6. ALTERNATE METHOD OF LAP SEAL– LONGITUDINAL JOINT LAPPED AND FOLDED, THEN STAPLED SECURELY IN PLACE

DUCT BLANKET INSULATION DETAILS (4)
SCALE: NTS

DIFFUSERS, REGISTERS AND GRILLES SCHEDULE

MARK	MODEL	SIZE	NECK	DAMPER	MATERIAL	REMARKS
S-1	TMS	24 / 24	6"	OBD	ST	1
S-2	EOSI	48 / 4.5	10"	OBD	ST	1, 2
S-3	EOSI	48 / 4.5	12"	OBD	ST	1, 2
R-1	PAR	24 / 24	22 / 22	–	ST	1

1. MODEL BASED ON TITUS.
2. PROVIDE ONE MASTER DIFFUSER PER ROOM. ALL OTHERS TO BE THE STANDARD DIFFUSER.

VARIABLE AIR VOLUME BOX SCHEDULE

MARK	MAXIMUM AIR FLOW (CFM)	MINIMUM AIR FLOW (CFM)	INLET SIZE (IN)	REHEAT COIL				MODEL	AREA SERVED	NOTES
				AIR FLOW (CFM)	EAT / LAT (°F)	STEPS OF CONTROL	CAPACITY (KW)			
VAV-E3-1	390	130	6	360	55.0 / 90.1	SCR	4.0	DESV	RM 201D	1, 2
VAV-E3-2	690	230	8	420	55.0 / 92.6	SCR	5.0	DESV	RM 201E	1, 2
VAV-E3-3(e)	770	770	10	770	55.0 / 87.8	3	8.0	DESV	RM 206, 229	3
VAV-E3-4(e)	1,350	600	14	600	55.0 / 86.6	3	6.0	DESV	RM 201, 203	4
VAV-E3-5	650	225	8	650	55.0 / 91.5	SCR	7.5	DESV	RM 201A	1, 2
VAV-E3-6	625	215	8	625	55.0 / 90.4	SCR	7.0	DESV	RM 201B	1, 2
VAV-E3-7	440	150	8	390	55.0 / 91.5	SCR	4.5	DESV	RM 201C	1, 2

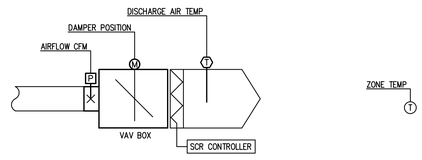
NOTES
1. MODEL BASED ON TITUS.
2. PROVIDE WITH DOOR INTERLOCKING DISCONNECT SWITCH,
3. EXISTING TITUS VAV BOX FOR REFERENCE ONLY.
4. EXISTING TITUS VAV BOX TO BE REBALANCED.

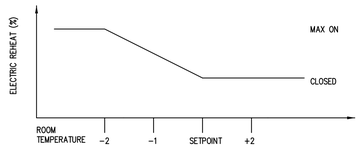
FAN SCHEDULE

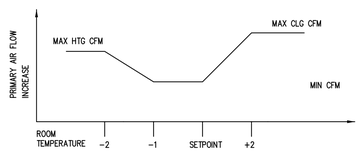
MARK	AIR FLOW RATE (CFM)	EXTERNAL S.P. (IN WG)	DRIVE TYPE	MOTOR (W)	ELECTRICAL (V/PH/HZ)	FAN ENERGY INDEX (FEI)	AREA SERVED	LOCATION	MODEL	NOTES
EF-1A/1B	70	0.35	DIRECT	32	120/1/60	N/A	RM 201H,201J	CEILING	GC-146	1, 2, 3

NOTES
1. MODEL BASED ON LOREN COOK.
2. PROVIDE WITH WHITE ALUMINUM GRILLE AND RUBBER ISOLATORS.
3. PROVIDE WITH CURB MOUNTED ROOF CAP WITH BIRDSCREEN.

VARIABLE AIR VOLUME BOX CONTROL SCHEMATIC







MODULATE DAMPER FULLY OPEN WHEN ROOM AIR TEMPERATURE IS 2 DEGREES ABOVE SETPOINT.
MODULATE AIRFLOW AND ELECTRIC REHEAT AS REQUIRED TO MAINTAIN 90 DEGRESS F DISHARGE AIR TEMPERATURE.

SEQUENCE OF OPERATIONS

PRESSURE INDEPENDENT AIR TERMINAL SHALL MAINTAIN ZONE TEMPERATURE H'EAT/COOL SETPOINTS OF 72/75 DEGREES F (ADJ) AND UNOCCUPIED COOL/HEAT SETPOINTS OF 80/65 DEGREES F. ALL SETPOINTS SHALL BE ADJUSTABLE.

OCCUPIED MODE:
COOLING – THE TERMINAL UNIT DAMPER SHALL MODULATE TO MAINTAIN THE ZONE COOLING TEMPERATURE SETPOINT BY MODULATING SUPPLY AIR FLOW. WHEN THE ZONE TEMPERATURE IS ABOVE SETPOINT THE DAMPER SHALL MODULATE TO THE MAXIMUM COOLING CFM POSITION. WHEN THE ZONE TEMPERATURE IS BELOW SETPOINT THE DAMPER SHALL MODULATE TO THE MINIMUM CFM POSITION.

HEATING – WHEN THE TERMINAL UNIT DAMPER HAS REACHED THE MINIMUM CFM POSITION AND THE ZONE TEMPERATURE IS BELOW SETPOINT THE ELECTRIC REHEAT SHALL BE ENERGIZED AND MODULATED AS REQUIRED TO PROVIDE A DISCHARGE AIR TEMPERATURE OF 90 DEGREES F. IF THE ZONE CONTINUES TO REMAIN BELOW SETPOINT THE TERMINAL UNIT DAMPER SHALL MODULATE OPEN TO THE HEATING MAXIMUM AIRFLOW CFM. THE ELECRIC REHEAT SHALL MODULATE IN UNISON WITH THE DAMPER TO MAINTAIN A 90° F DISCHARGE AIR TEMPERATURE. AS THE ZONE TEMPERATURE INCREASES THE DAMPER AND ELECTRIC REHEAT SHALL REACT IN A REVERSE MANNER.

UNOCCUPIED MODE:
THE TERMINAL UNIT DAMPER AND REHEAT SHALL OPERATE AS DESCRIBED ABOVE WHEN THE ASSOCIATED AIR HANDLING UNIT IS ENERGIZED. THE UNIT SHALL OPERATE TO MAINTAIN THE UNOCCUPIED HEATING/COOLING SETPOINTS.

POINTS LIST

VARIABLE AIR VOLUME BOX	HARDWARE				SOFTWARE			
	AI	AO	BI	BO	SCHED	TREND	ALARM	GRAPHIC
DISCHARGE AIR TEMPERATURE	X					X		X
ZONE AIR TEMPERATURE	X					X		X
HEATING SETPOINT		X						X
COOLING SETPOINT		X						X
DAMPER POSITION		X						X
AIRFLOW CFM	X					X		X
MINIMUM AIRFLOW SETPOINT		X						X
MAXIMUM COOLING AIRFLOW SETPOINT		X						X
MAXIMUM HEATING AIRFLOW SETPOINT		X						X
ZONE HIGH TEMPERATURE ALARM			X				X	X
ZONE LOW TEMPERATURE ALARM			X				X	X
ELECTRIC REHEAT COIL CAPACITY		X				X		X

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ISSUED
05/05/23 BID DOCUMENTS

JOB NO.	23-471-1466
DRAWN	KJD
CHECKED	BWG
APPROVED	DDW

SHEET TITLE
MECHANICAL SCHEDULES, DETAILS & TEMPERATURE CONTROLS

SHEET NUMBER
M410

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

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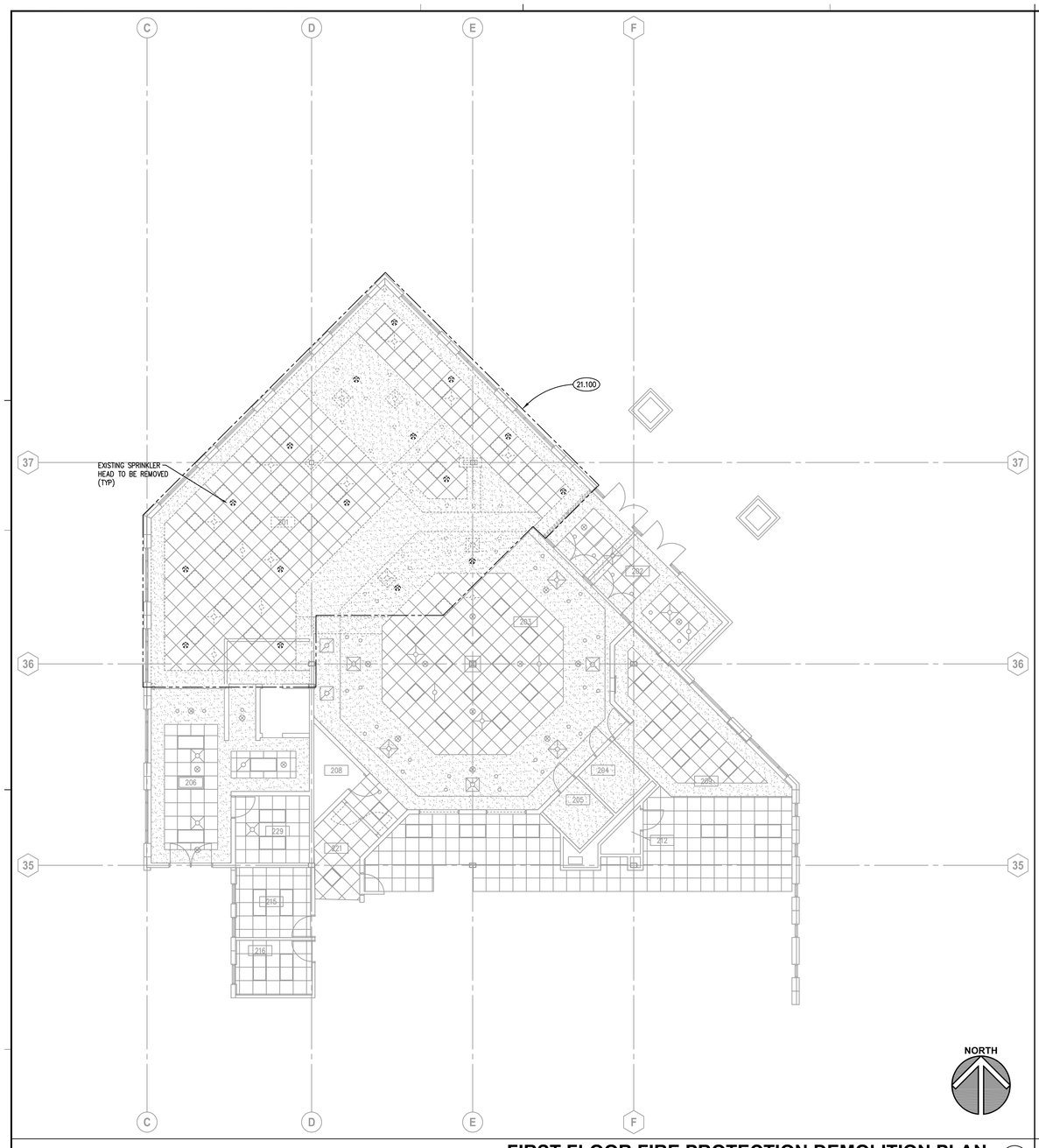
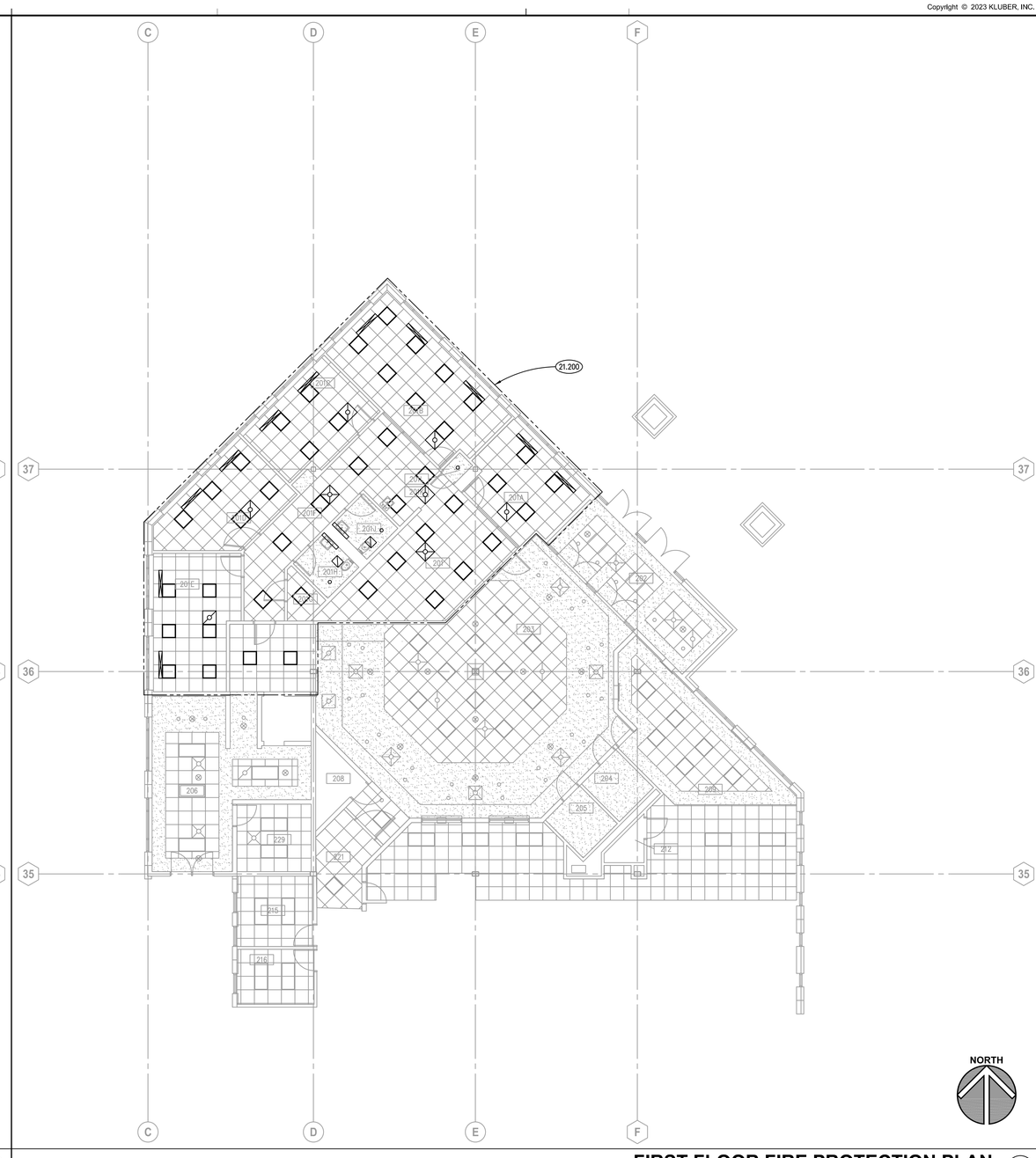


FIRST FLOOR FIRE PROTECTION DEMOLITION PLAN 1

SCALE: 1/8" = 1'-0"



FIRST FLOOR FIRE PROTECTION PLAN 2

SCALE: 1/8" = 1'-0"

CEILING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GYPSUM BOARD		MECHANICAL DIFFUSER: SUPPLY
			MECHANICAL DIFFUSER: RETURN
	ACOUSTICAL CEILING TILE: 2' X 2'		MECHANICAL DIFFUSER: EXHAUST
			MECHANICAL DIFFUSER: LINEAR SUPPLY
			COMBINATION LIGHT/EXHAUST FAN
			LIGHT FIXTURE: 24" X 24"
			LIGHT FIXTURE
		A B C D	SPRINKLER HEADS A: PENDANT B: UPRIGHT C: CONCEALED D: SIDEWALL
		A B C D	DOWN LIGHT FIXTURES A: SPOT B:DOWN C:WALL WASHER D:SCONCE

GENERAL NOTES

1. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
2. SPRINKLER SYSTEM SHOWN ARE CONCEPT DRAWINGS AND ARE SCHEMATIC FOR BIDDING PURPOSES ONLY. CONCEPT DRAWINGS ARE INTENDED TO ILLUSTRATE THE SCOPE OF WORK. THE CONTRACTOR SHALL VERIFY ALL INFORMATION CONTAINED ON THESE DRAWINGS.
3. ALL PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS, AND RISES. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE SPRINKLER SYSTEM. THE DESIGN SHALL BE ACCOMPLISHED UNDER THE DIRECT SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER OR NICET LEVEL III/IV. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BEAR THE LICENSED PROFESSIONAL'S STAMP.
5. FIRE PROTECTION SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13.
6. PIPING 2 INCHES AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL PIPING WITH THREADED COUPLINGS AND FITTINGS. PIPING 2-1/2" AND LARGER SHALL BE SCHEDULE 10 BLACK STEEL PIPING WITH ROLL-GROOVED FITTINGS AND COUPLINGS.
7. BUILDING FIRE PROTECTION SYSTEM IS SUPPLIED BY A 1000 GPM AT 90 PSI FIRE PUMP. HYDRAULIC PLACARD FOR AREA E INDICATES DENSITY OF 0.20 GPM/SF OVER 1500 SQ FT, SYSTEM DEMAND 439.98 GPM AT RESIDUAL PRESSURE OF 90.13 PSI ON LEVEL 1.
8. ALL SPRINKLER HEADS IN LAY-IN CEILING TILES SHALL BE CENTERED ON 2'x2' END AREA OF TILE.
9. AREA OF RENOVATION IS ZONE 4 OF FIRE PROTECTION SYSTEM WITH FIRE PUMP.
10. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL TRADES.
11. DO NOT CUT THROUGH MASONRY BOND BEAMS OR ANY OTHER STRUCTURAL ELEMENT WHEN INSTALLING OPENINGS REQUIRED FOR ALL PIPING, CONDUITS OR OTHER WORK. CONTRACTOR CUTTING THROUGH OR OTHERWISE DAMAGING THESE ELEMENTS WILL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES AND SUBSEQUENT RETRO-FIT/REINFORCING DEEMED NECESSARY TO REINSTATE THE CONTINUITY OF THE DAMAGED ELEMENTS.
12. OBTAIN AND PAY ALL COSTS FOR PERMITS, LICENSES, CERTIFICATE FILING AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.

KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

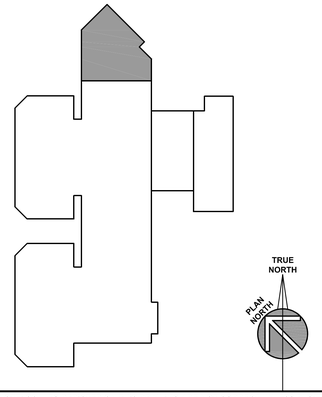
21.100 REMOVE SPRINKLER HEADS AND PIPING AS REQUIRED FOR MODIFICATIONS IN OUTLINED AREA SHOWN. REFER TO NEW WORK PLAN. PROVIDE PERMANENT CAP ON BRANCH TAKE-OFFS NOT TO BE REUSED.

21.200 PROVIDE NEW SPRINKLER HEADS, MATERIAL AND LABOR TO PROVIDE FIRE PROTECTION OF OUTLINED AREA TO ACCOMMODATE NEW CEILING AND ROOM CONFIGURATIONS.

ROOM SCHEDULE

RM. NO.	ROOM NAME	RM. NO.	ROOM NAME
201	SHARED OFFICE	201K	KITCHENETTE
201A	OFFICE	201L	CLOSET
201B	CONFERENCE ROOM	203	EXISTING LOBBY
201C	OFFICE	221	EXISTING CORRIDOR
201D	OFFICE		
201E	OFFICE		
201F	CORRIDOR		
201G	CLOSET		
201H	RESTROOM		
201J	RESTROOM		

KEYPLAN



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KANE COUNTY SHERIFF - ADMINISTRATION WING RENOVATIONS

KANE COUNTY SHERIFF
37W755 IL-38 SUITE A
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ISSUED
BID DOCUMENTS 05/05/23

JOB NO.	23-471-1466
DRAWN	DDW
CHECKED	DDW
APPROVED	DDW

SHEET TITLE

FIRE PROTECTION FLOOR PLANS

SHEET NUMBER

F310

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

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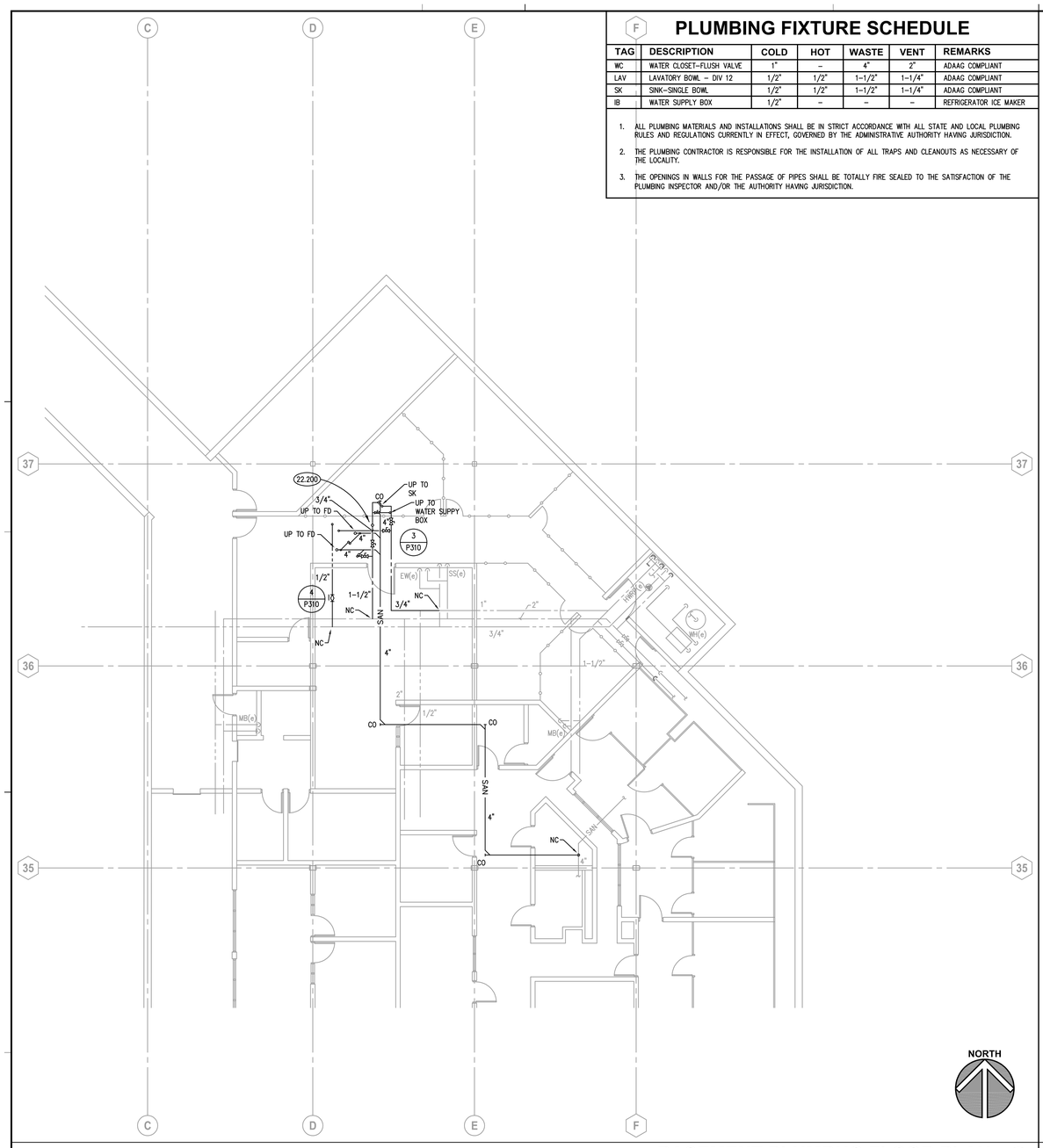
PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	COLD	HOT	WASTE	VENT	REMARKS
WC	WATER CLOSET-FLUSH VALVE	1"	–	4"	2"	ADAAG COMPLIANT
LAV	LAVATORY BOWL – DIV 12	1/2"	1/2"	1-1/2"	1-1/4"	ADAAG COMPLIANT
SK	SINK-SINGLE BOWL	1/2"	1/2"	1-1/2"	1-1/4"	ADAAG COMPLIANT
IB	WATER SUPPLY BOX	1/2"	–	–	–	REFRIGERATOR ICE MAKER

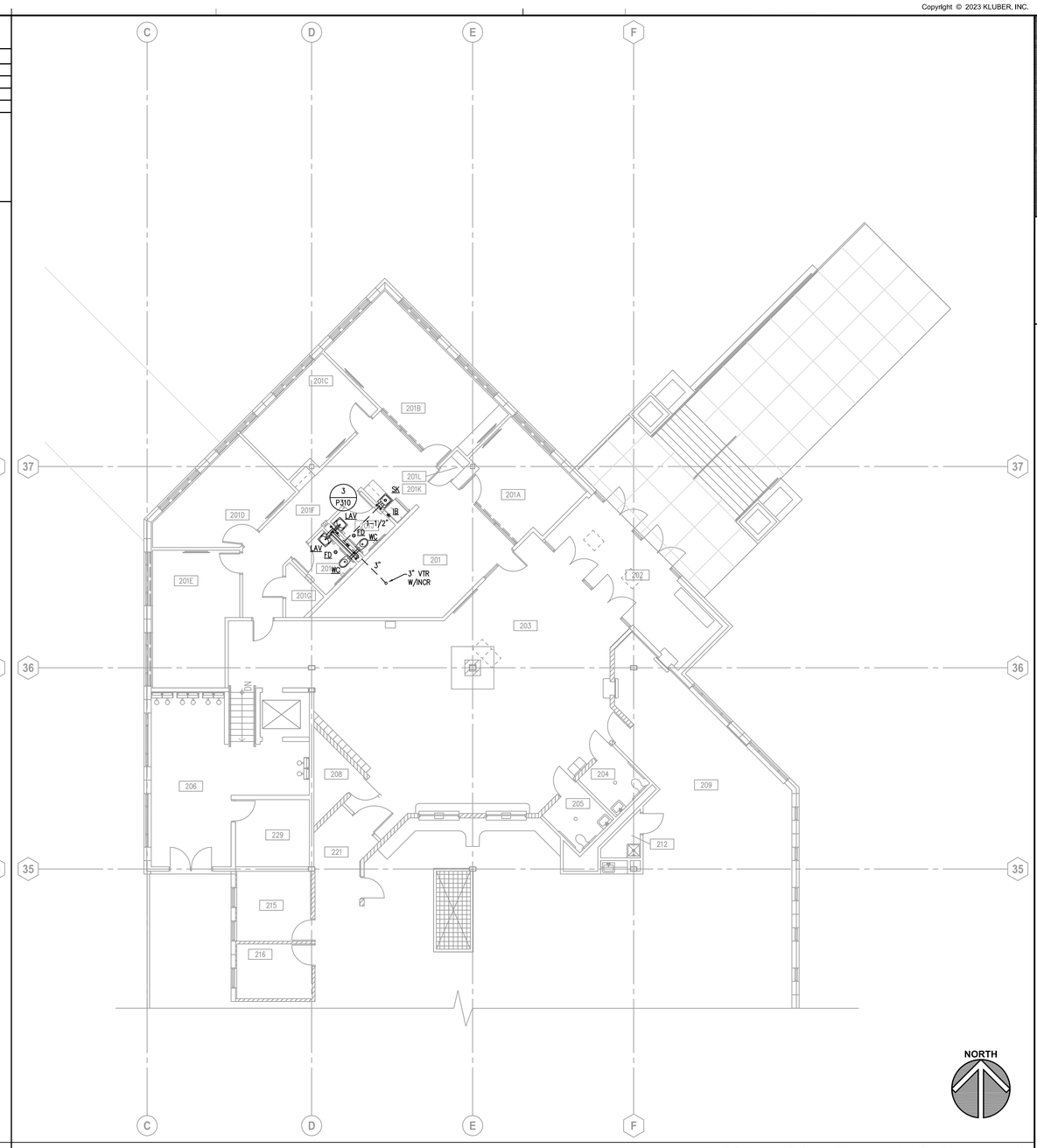
1. ALL PLUMBING MATERIALS AND INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH ALL STATE AND LOCAL PLUMBING RULES AND REGULATIONS CURRENTLY IN EFFECT, GOVERNED BY THE ADMINISTRATIVE AUTHORITY HAVING JURISDICTION.
2. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL TRAPS AND CLEANOUTS AS NECESSARY OF THE LOCALITY.
3. THE OPENINGS IN WALLS FOR THE PASSAGE OF PIPES SHALL BE TOTALLY FIRE SEALED TO THE SATISFACTION OF THE PLUMBING INSPECTOR AND/OR THE AUTHORITY HAVING JURISDICTION.



NORTH

BASEMENT PLUMBNG FLOOR PLAN 1

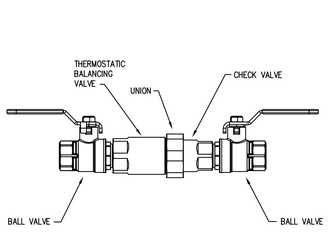
SCALE: 1/8" = 1'-0"



NORTH

FIRST FLOOR PLUMBING PLAN 2

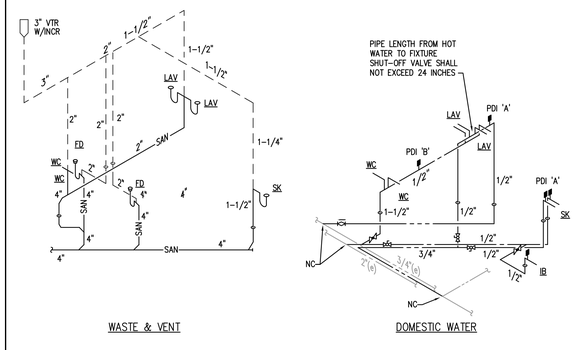
SCALE: 1/8" = 1'-0"



NOTE
1. THE VALVE CLOSING TEMPERATURE SHALL BE 120 DEGREES F.
2. DESIGN BASIS: THERMOMEGATECH CIRCUIT SOLVER.

THERMOSTATIC SELF-ACTUATING VALVE 4

NTS



WASTE & VENT

DOMESTIC WATER

RISER DIAGRAM 3

SCALE: NTS

GENERAL NOTES

1. REFER TO DRAWING G100 FOR PROJECT GENERAL NOTES.
2. ALL SANITARY, WASTE AND STORM PIPES UP TO AND INCLUDING 3 INCHES SHALL SLOPE AT 1/4 INCH PER FOOT, 4 INCHES AND LARGER SHALL SLOPE AT 1/8 INCH PER FOOT, UNLESS OTHERWISE NOTED.
3. ALL PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW ALL OFFSETS, DROPS AND RISES. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MATERIAL AND LABOR FOR A COMPLETE AND WORKING SYSTEM.
4. OBTAIN AND PAY ALL COSTS FOR PERMITS, LICENSES, CERTIFICATE FILING AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION.
5. EXISTING PIPING INDICATED ON THESE PLANS SHALL BE FIELD VERIFIED FOR EXACT LOCATIONS, QUANTITY AND PIPE SIZES.
6. DO NOT CUT THROUGH THE MASONRY BOND BEAMS OR OTHER STRUCTURAL ELEMENT WHEN INSTALLING OPENINGS REQUIRED FOR ALL PIPING, CONDUITS OR OTHER WORK. CONTRACTOR CUTTING THROUGH OR OTHERWISE DAMAGING THESE ELEMENTS WILL BE RESPONSIBLE FOR ALL ASSOCIATED ENGINEERING FEES AND SUBSEQUENT RETRO-FIT/REINFORCING DEEMED NECESSARY TO REINSTATE THE CONTINUITY OF THE DISRUPTED ELEMENTS.
7. SPACE ALLOCATION, COORDINATION WITH ELECTRICAL, ARCHITECTURAL & OTHER PLUMBING COMPONENTS HAVE BEEN MADE WITH RESPECT TO ALL EQUIPMENT SCHEDULED ON THESE DRAWINGS AND IN THE SPECIFICATIONS OF THE FIRST NAMED MANUFACTURER ONLY. OTHER MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET PERFORMANCE REQUIREMENTS AND AFOREMENTIONED COORDINATION.
8. COORDINATE ROUGH-INS FOR AND INSTALLATION OF PLUMBING FIXTURES WITH ACCESSIBILITY AND MOUNTING INFORMATION CONTAINED ON ARCHITECTURAL DRAWINGS.
9. COORDINATE LOCATIONS OF ROUGH-INS FOR SINKS WITH CASEWORK ELEVATIONS CONTAINED ON ARCHITECTURAL DRAWINGS.
10. DRAINAGE AND VENT SYSTEM SHALL BE PRESSURE TESTED WITH WATER OR AIR.
11. ALL BACKFLOW PREVENTER ASSEMBLIES SHALL BE TESTED AND APPROVED BY A CROSS CONNECTION CONTROL DEVICE INSPECTOR (CCCDI) BEFORE INITIAL OPERATION, AND AT LEAST ANNUALLY THEREAFTER.
12. ALL COFFEE MAKERS, HUMIDIFIERS, ICE MACHINES OR SIMILAR EQUIPMENT/FIXTURES WITH A POTABLE WATER SUPPLY LINE SHALL HAVE AN APPROVED DUAL CHECK VALVE DEVICE INSTALLED IN-LINE.

KEYNOTES

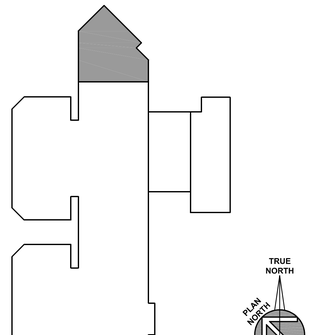
KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

22.200 PROVIDE WATER FILTER SYSTEM. DUPONT MODEL WFPF13003B OR APPROVED EQUAL; NSF 42, PLASTIC HEAD AND HOUSING MATERIAL, 10 MICRON, 15,000 GALLON SERVICE LIFE, 5 GPM FLOW RATE, AND POLYMER FILTER MEDIA. PROVIDE WITH HARDWARE, PRESSURE RELIEF, FILTER AND WRENCH.

ROOM SCHEDULE

RM. NO.	ROOM NAME	RM. NO.	ROOM NAME
201	SHARED OFFICE	201K	KITCHENETTE
201A	OFFICE	201L	CLOSET
201B	CONFERENCE ROOM	203	EXISTING LOBBY
201C	OFFICE		
201D	OFFICE		
201E	OFFICE		
201F	CORRIDOR		
201G	CLOSET		
201H	RESTROOM		
201J	RESTROOM		

KEY PLAN



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KANE COUNTY SHERIFF - ADMINISTRATION WING RENOVATIONS

KANE COUNTY SHERIFF
37W755 IL-38 SUITE A
ST. CHARLES, IL 60175

ISSUED
BID DOCUMENTS
05/05/23

JOB NO.	23-471-1466
DRAWN	DDW
CHECKED	DDW
APPROVED	DDW

SHEET TITLE

PLUMBING FLOOR PLANS

SHEET NUMBER

P310

NOTE: SCALES DEPICTED ON THIS DRAWING ARE NOT CORRECT UNLESS PLOTTED SHEET SIZE IS 30 X 42 INCHES.

P:\1466 - Kane County Sheriff - Office Renovation\30_Design\Dwgs\DD-CD\50_Plumb\1466P0310.dwg, 5/25/2023 1:47:19 PM, DDW

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ABBREVIATIONS

SYMBOL	DESCRIPTION
A	
A	AMPS
AC	ABOVE COUNTER
AF	AMPERE FRAME/AMPERE FUSE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CURRENT
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAGE
B	
BKR	BREAKER
BOL	BUILT-IN OVERLOAD
BWE	BAKED WHITE ENAMEL
BTU	BRITISH THERMAL UNIT
C	
C	CONDUIT
CATV	CABLE TELEVISION SYSTEM
C/B	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CU	COPPER
D	
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DS	DOWNSPOUT
E	
EBH	ELECTRIC BASEBOARD HEATER
EC, E.C.	ELECTRICAL CONTRACTOR
ECH	ELECTRIC CABINET HEATER
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	
F	FUSED
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FC	FUSE CLIP SIZE
FPB	FAN POWERED BOX
FBO	FURNISHED BY OTHERS
FLA	FULL LOAD AMPS
FLR	FLOOR
FPC	FIRE PROTECTION CONTRACTOR
FS	FLOAT SWITCH
FVNR	FULL-VOLTAGE, NON-REVERSING
G	
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
H	
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING AND VENTILATING CONTRACTOR
HWGC	HEAVY WALL GALVANIZED CONDUIT

SYMBOL	DESCRIPTION
I	
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
INC	INCANDESCENT
INT	INTEGRAL
IR	IN ROOM
IU	IN UNIT
J	
JB	JUNCTION BOX
K	
Kcmil	1000 CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KVAR	KILOVOLT-AMPS REACTIVE
KW	KILOWATT
KWH	KILOWATT-HOUR
L	
LP	LOW PRESSURE
LV	LOW-VOLTAGE
LVT	LOW-VOLTAGE THERMOSTAT
M	
MAG	MAGNETIC MOTOR STARTER
MAN	MANUAL MOTOR STARTER W/THERMAL OVERLOAD PROTECTION
MC	MECHANICAL CONTRACTOR
MCA	MAXIMUM CURRENT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	METAL HALIDE
MLO	MAIN LUG ONLY
MNS	MASS NOTIFICATION SYSTEM
MOCP	MINIMUM OVERCURRENT PROTECTION
MS	MANUAL SWITCH
MSBD	MAIN SWITCH BOARD
MTD	MOUNTED
MUA	MAKE-UP AIR UNIT
N	
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NF	NON-FUSED
N.I.C.	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
N.T.S., NTS	NOT TO SCALE
NU	NEAR UNIT
O	
O.H.	OVERHEAD
OU	ON UNIT
OCPD	OVERCURRENT PROTECTION DEVICE

SYMBOL	DESCRIPTION
P	
PB	PUSH BUTTON
PC	PLUMBING CONTRACTOR
PDU	POWER DISTRIBUTION UNIT
PH	PHASE
PNL	PANEL
PROVIDE	FURNISHED, INSTALLED, WIRED AND CONNECTED COMPLETE BY CONTRACTOR
PVC	POLYVINYL CONDUIT
PW	PRE-WIRED
Q	
QTY.	QUANTITY
R	
REQ'D	REQUIRED
RTU	ROOF TOP UNIT
S	
SC	SEPARATE CIRCUIT
SD	SMOKE DETECTOR
SF	SQUARE FEET
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SS	STAINLESS STEEL
SW	SWITCH
SWBD	SWITCHBOARD
T	
T	THERMOSTAT
TELE	TELEPHONE
TC	TIME CLOCK
TCP	TEMPERATURE CONTROL PANEL
TS	TOGGLE SWITCH
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TWU	THRU WALL AIR CONDITIONING UNIT
TYP.	TYPICAL
U	
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
U.N.O.	UNLESS NOTED OTHERWISE
UM	UNIT MANUFACTURER
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	
V	VOLT
VA	VOLT-AMPERES
VAC	VOLT ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	
W	WATT
W/	WITH
W/O	WITHOUT
WG	WIRE GUARD
WP	WEATHER PROOF
X	
X	EXISTING EQUIPMENT
XFMR	TRANSFORMER
XP	EXPLOSION-PROOF

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ABBREVIATIONS, ETC., ARE NECESSARILY USED IN THIS PROJECT.

ELECTRICAL SYMBOLS LIST

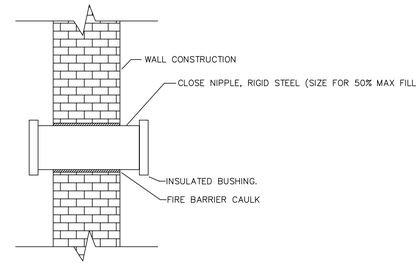
SYMBOL CEILING	SYMBOL WALL	SYMBOL FLOOR	DESCRIPTION
			2X4 RECESSED TROFFER FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE. SHADING=NIGHT LIGHT
○			DOWN LIGHT FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE.
	^{a}		SINGLE POLE TOGGLE SWITCH. 15A OR 20A AS REQUIRED. 120/277V a=SWITCHING CONTROL, P=PILOT LIGHT, K=KEYED SW., LV=LOW VOLTAGE
	$_{3}$		3-WAY TOGGLE SWITCH. 15A OR 20A AS REQUIRED. 120/277V 3D=3 WAY DIMMER
			DUPLEX RECEPTACLE. 20A 125V 2P 3W GRD. NEMA5-20R. @18"AFF D=DEDICATED CIRCUIT. 'i' =MTD. @48"AFF, OR @6" ABOVE COUNTER.
			DOUBLE DUPLEX RECEPTACLE. @18"AFF 20A 125V 2P 3W GRD. NEMA5-20R. PO=POP UP RECEPTACLE
	▽	▽	COMMUNICATIONS OUTLET @18"AFF. REFER TO COMMUNICATION OUTLET DETAIL. B = BLANK JACK, AV= AUDIO/VISUAL JACK, MIC= MICROPHONE JACK. ▽ = 6" ABOVE COUNTER, AUX = AUX. CONNECT. PO=POP UP LOW VOLTAGE SECTION. PD=PEDESTAL MOUNTED
		TS	JUNCTION BOX TS = TOMBSTONE TYPE
			WIRING IN CONDUIT CONCEALED ABOVE CEILING, IN WALL AND UNDER FLOOR OR UNDERGROUND.
			WIRING IN CONDUIT EXPOSED ON CEILING OR WALL.
			BRANCH CIRCUIT WIRING IN CONDUIT HOMERUN TO PANEL. ONE ARROW PER HOMERUN. SLASHES INDICATE NUMBER OF CONDUCTORS.
			INDICATES GROUND CONDUCTOR.
			INDICATES ISOLATED GROUND CONDUCTOR.
	V		FIRE ALARM HORN/STROBE COMBINATION. @80"AFF NUMBER INDICATES CANDELA LEVEL (110cd UNLESS NOTED OTHERWISE)
HP	HP	HP	MOTOR. HP= HORSE-POWER RATING.
			PANEL 240V & BELOW.
			PANEL ABOVE 240V.

MOUNTING HEIGHT

FIRE ALARM PULL STATION STROBES	48" 80"
FIRE ALARM BELLS(EXTERIOR) FACP & FAAP	12'-0" 48"
EXIT SIGNS(BOTTOM) TV OUTLET	80" 18"
INTERCOM PHOTOCELL	48" 12'-0"
RECEPTACLE(CENTERLINE) RECEPTACLE(EXTERIOR)	18" 24"
RECEPTACLE(WAREHOUSE) TELEPHONE OUTLET(PUBLIC)	30" 54"
TELEPHONE OUTLET SWITCH	18" 48"
SAFETY SWITCHES PANELS(TOP)	48" 72"
CLOCK(CENTERLINE) VIDEO OUTLET	96" 96"

MISCELLANEOUS

BTU 1	HVAC EQUIPMENT IDENTIFICATION
6.01	KEYNOTE IDENTIFICATION
1 E7.1 DETAIL NUMBER DRAWING NUMBER	DETAIL IDENTIFICATION

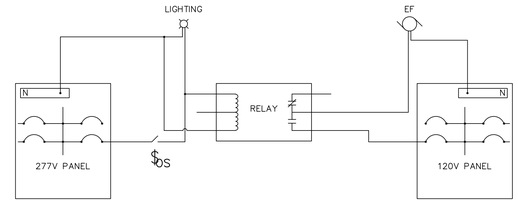


TYPICAL WALL PENETRATION

NOTES:
1. NEATLY CORE ALL MASONRY AND BLOCK WALLS.
2. RIGIDLY SUPPORT ALL RACEWAYS.
3. PROVIDE FIRE BARRIER CAULK AT FLOOR, CORRIDOR AND FIRE SEPARATION WALLS.

TYP. WALL PENETRATION DETAIL -

SCALE: N.T.S.



TOILET LIGHTING/EF WIRING DIAGRAM -

SCALE: NTS

PANEL : SH2 (EXISTING) 225 AMPERE MAIN LUG ONLY

CKT. NO.	BRKR	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	BRKR	CKT. NO.
1	1P20	LIGHTS - E2				LIGHTS - E2	1P20	2
3	1P20	LIGHTS - E2				LIGHTS - E2	1P20	4
5	1P20	LIGHTS - E2				LIGHTS - E2	1P20	6
7	1P20	LIGHTS - E2				LIGHTS - E2	1P20	8
9	1P20	LIGHTS - C2				LIGHTS - C2	1P20	10
11	1P20	LIGHTS - C2				LIGHTS - C2	1P20	12
13	1P20	LIGHTS - C2				LIGHTS - C2	1P20	14
15	1P20	LIGHTS - C2				LIGHTS - C2	1P20	16
17	1P20	LIGHTS - C2				LIGHTS - C2	1P20	18
19	1P20	LIGHT OUTSIDE ENTRANCE				LIGHTS - D2	1P20	20
21	**1P20**	**SPARE**				LIGHTS - D2	1P20	22
23	1P20	TU-E5-1				LIGHTS - D2	1P20	24
25	**3P50**	**TU-E3-1,2**				LIGHTS - D2	1P20	26
27	/					LIGHTS - D2	1P20	28
29	/					LIGHTS - D2	1P20	30
31	3P50	TU-E3-3,4				-	-	32
33	/					-	-	34
35	/					**CORRIDOR LIGHTS***	**1P20**	36
37	3P50	TU-C3-2,3,4,5,6				TU-C4-1,4,5,6	3P50	38
39	/						/	40
41	/						/	42

TOTAL PHASE A: 0
TOTAL PHASE B: 0
TOTAL PHASE C: 0
DEMAND VA: 0
DEMAND AMPS: 0

NOTES:
*REDIRECT CIRCUIT TO EXISTING SPARE BREAKER TO CREATE SPACE FOR NEW 3 POLE BREAKER

MOUNTING: SURFACE VOLTAGE (LN): 277
RATING: VOLTAGE (LL): 480
ENCLOSURE: NEMA 1 PHASE: 3
FED FROM: SDH WIRE: 4
FEEDER SIZE: *EXISTING TO REMAIN*
LOCATION: ELECTRICAL ROOM D-216

PANEL : SH2 (REMODELED) 225 AMPERE MAIN LUG ONLY

CKT. NO.	BRKR	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	BRKR	CKT. NO.
1	1P20	LIGHTS - E2				LIGHTS - E2	1P20	2
3	1P20	LIGHTS - E2				LIGHTS - E2	1P20	4
5	1P20	LIGHTS - E2				LIGHTS - E2	1P20	6
7	1P20	LIGHTS - E2				LIGHTS - E2	1P20	8
9	1P20	LIGHTS - C2				LIGHTS - C2	1P20	10
11	1P20	LIGHTS - C2				LIGHTS - C2	1P20	12
13	1P20	LIGHTS - C2				LIGHTS - C2	1P20	14
15	1P20	LIGHTS - C2				LIGHTS - C2	1P20	16
17	1P20	LIGHTS - C2				LIGHTS - C2	1P20	18
19	1P20	LIGHT OUTSIDE ENTRANCE				LIGHTS - D2	1P20	20
21	**1P20**	**CORRIDOR LIGHTS**				LIGHTS - D2	1P20	22
23	1P20	TU-E5-1				LIGHTS - D2	1P20	24
25	**3P30**	**TU-E3-1,2,7**	4500			LIGHTS - D2	1P20	26
27	/			4500		LIGHTS - D2	1P20	28
29	/				4500	LIGHTS - D2	1P20	30
31	3P50	TU-E3-3,4	4830			**TU-E3-5,6**	**3P30**	32
33	/			4830		/		34
35	/				4830	/		36
37	3P50	TU-C3-2,3,4,5,6				TU-C4-1,4,5,6	3P50	38
39	/					/		40
41	/					/		42

TOTAL PHASE A: 9330
TOTAL PHASE B: 9330
TOTAL PHASE C: 9330
DEMAND VA: 27990
DEMAND AMPS: 33.7

NOTES:

MOUNTING: SURFACE VOLTAGE (LN): 277
RATING: VOLTAGE (LL): 480
ENCLOSURE: NEMA 1 PHASE: 3
FED FROM: SDH WIRE: 4
FEEDER SIZE: *EXISTING TO REMAIN*
LOCATION: ELECTRICAL ROOM D-216

PANEL : SL2 (EXISTING) 100 AMPERE MAIN LUG ONLY

CKT. NO.	BRKR	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	BRKR	CKT. NO.
1	1P30	SYSTEM FURN C232				SPARE E201	1P20	2
3	1P20	SYSTEM FURN C232				SPARE E201	1P20	4
5	1P20	SYSTEM FURN C232				SPARE	1P20	6
7	1P20	ENTRANCE GFI				SPARE	1P20	8
9	1P20	C234 FRIDGE				SPARE	1P20	10
11	1P20	SPARE C233				SPARE	1P20	12
13	1P20	SPARE C233				SPARE	1P20	14
15	1P20	SPARE				SPARE	1P20	16
17	1P20	SPARE				HUMIDIFIER C267	1P20	18
19	1P20	C214 RECEPTACLES				HUMIDIFIER C223	1P20	20
21	1P20	C214, C213 RECEPTACLES				SPARE D248	1P20	22
23	1P20	C213, C212 RECEPTACLES				SPARE D248	1P20	24
25	1P20	SYSTEM FURN C232				E226, E228 RECEPTACLES	1P20	26
27	1P20	SYSTEM FURN C232				E227, E228 RECEPTACLES	1P20	28
29	1P20	SYSTEM FURN C232				SPARE	1P20	30
31	1P20	SYSTEM FURN C232				C216 RECEPTACLES	1P20	32
33	1P20	SYSTEM FURN C232				C252 RECEPTACLES	1P20	34
35	1P20	SPARE				C216 RECEPTACLES	1P20	36
37	1P20	C233				C243, C 245 RECEPTACLES	1P20	38
39	1P20	C233				C237 RECEPTACLES	1P20	40
41	1P20	C233				C236, C237 RECEPTACLES	1P20	42

TOTAL PHASE A: 0
TOTAL PHASE B: 0
TOTAL PHASE C: 0
DEMAND VA: 0
DEMAND AMPS: 0

NOTES:

MOUNTING: SURFACE VOLTAGE (LN): 120
RATING: VOLTAGE (LL): 208
ENCLOSURE: NEMA 1 PHASE: 3
FED FROM: SDL-8/10/12 WIRE: 4
FEEDER SIZE: *EXISTING TO REMAIN*
LOCATION: ELECTRICAL ROOM D-216
SQUARE D NQOD PANELBOARD SERIES E2

PANEL : SL2 (REMODELED) 100 AMPERE MAIN LUG ONLY

CKT. NO.	BRKR	DESCRIPTION	PHASE A	PHASE B	PHASE C	DESCRIPTION	BRKR	CKT. NO.
1	1P30	SYSTEM FURN C232	1080			**REC E201,E201A**	1P20	2
3	1P20	SYSTEM FURN C232		1080		**REC E201A**	1P20	4
5	1P20	SYSTEM FURN C232			1260	**REC E201B**	1P20	6
7	1P20	ENTRANCE GFI	1250			**COPIER E201**	1P20	8
9	1P20	C234 FRIDGE		1000		**REFRIGERATOR E201K**	1P20	10
11	1P20	SPARE C233			604	**REC E201K, REC & EF E201J, E201H**	1P20	12
13	1P20	SPARE C233	900			**REC E201C, E201D**	1P20	14
15	1P20	**REC - E201C, E201D**		1080		**REC E201D, E201E**	1P20	16
17	1P20	**REC - E201B, E201C**	1080		1260	HUMIDIFIER C267	1P20	18
19	1P20	C214 RECEPTACLES				HUMIDIFIER C223	1P20	20
21	1P20	C214, C213 RECEPTACLES				SPARE D248	1P20	22
23	1P20	C213, C212 RECEPTACLES				SPARE D248	1P20	24
25	1P20	SYSTEM FURN C232				E226, E228 RECEPTACLES	1P20	26
27	1P20	SYSTEM FURN C232				E227, E228 RECEPTACLES	1P20	28
29	1P20	SYSTEM FURN C232			1920	**MOTORIZED SHADES**	1P20	30
31	1P20	SYSTEM FURN C232				C216 RECEPTACLES	1P20	32
33	1P20	SYSTEM FURN C232				C252 RECEPTACLES	1P20	34
35	1P20	**ELECTRONICALLY CONTROLLED GLASS E201**			200	C216 RECEPTACLES	1P20	36
37	1P20	C233				C243, C 245 RECEPTACLES	1P20	38
39	1P20	C233				C237 RECEPTACLES	1P20	40
41	1P20	C233				C236, C237 RECEPTACLES	1P20	42

TOTAL PHASE A: 3230
TOTAL PHASE B: 4240
TOTAL PHASE C: 5244
DEMAND VA: 12714
DEMAND AMPS: 35.3

NOTES:

MOUNTING: SURFACE VOLTAGE (LN): 120
RATING: VOLTAGE (LL): 208
ENCLOSURE: NEMA 1 PHASE: 3
FED FROM: SDL-8/10/12 WIRE: 4
FEEDER SIZE: *EXISTING TO REMAIN*
LOCATION: ELECTRICAL ROOM D-216
SQUARE D NQOD PANELBOARD SERIES E2

HVAC/PLUMBING EQUIPMENT SCHEDULE

NO.	DESCRIPTION	FLA	KW	HP	VOL	PH	CCT NO.	DISC. FURN BY	STARTER TYPE	STARTER BY	CIRCUIT WIRING	NOTE
TU-E3-1	TERMINAL UNIT W/ ELECTRIC REHEAT	6	4	-	480	3	SH2-25/27/31	EC	N/A	N/A	4#10,#10G,3/4"C	
TU-E3-2	TERMINAL UNIT W/ ELECTRIC REHEAT	7.5	5	-	480	3	SH2-25/27/31	EC	N/A	N/A	4#10,#10G,3/4"C	
TU-E3-5	TERMINAL UNIT W/ ELECTRIC REHEAT	11.3	7.5	-	480	3	SH2-32/34/36	EC	N/A	N/A	4#10,#10G,3/4"C	
TU-E3-6	TERMINAL UNIT W/ ELECTRIC REHEAT	10.5	7	-	480	3	SH2-32/34/36	EC	N/A	N/A	4#10,#10G,3/4"C	
TU-E3-7	TERMINAL UNIT W/ ELECTRIC REHEAT	6.8	4.5	-	480	3	SH2-25/27/31	EC	N/A	N/A	4#10,#10G,3/4"C	
EF-1A,B	EXHAUST FAN	0.3	-	F	120	1	SL2-12	PLUG	ECM	UNIT	2#12,#12G,1/2"C	

NOTES:

INTERIOR LUMINAIRE SCHEDULE

TYPE	LAMPS NO.	LAMPS CAT. NO.	DESCRIPTION	MFGR.	CATALOG NUMBER	VOLTAGE	SHIELDING	FINISH	MOUNTING	NOTE
A	1	LED-4000K	2' X 2' STATIC TROFFER	COLUMBIA	LCAT22-40MLG-EDU	UNV	FROSTED ACRYLIC	WHITE	RECESSED	
				LITHONIA	BLT SERIES					
				METALUX	CRUZE SERIES					
					OR APPROVED EQUAL					
B	1	LED-4000K	LINEAR LED WALL MOUNT DIRECT/INDIRECT	LITECONTROL	2L-W-ID-LPAD-3-03-SOF-C3-40K-I065-D040-D01-1C-UNV	UNV	-	SILVER	SURFACE (WALL)	
				MARK ARCHITECTURAL	SLOT SERIES					
				NEO RAY	DEFINE SERIES					
					OR APPROVED EQUAL					
C	1	LED-4000K	LED 6" CAN LIGHT	ELITE	HH6-LED-2000L-DIM10-277-WD-40K-85+-HH6-6501-W-WH	UNV	N/A	WHITE	RECESSED	1
				GOTHAM	EVO SERIES					
				HALO	HO6 SERIES					
					OR APPROVED EQUAL					
EXIT		LED	SELF-CONTAINED LED EXIT SIGN, NICAD BATTERY	DUAL LITE	EVE SERIES	-	-	-	-	
				LITHONIA	LQM SERIES					
				SURE LITES	APX SERIES					

Notes:
1. PROVIDE FIXTURES TAGGED WITH '-EM' WITH INTEGRAL 14W EMERGENCY BATTERY PACK.

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KANE COUNTY SHERIFF - ADMINISTRATION WING RENOVATIONS

KANE COUNTY SHERIFF
37W755 IL-38 SUITE A
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ISSUED
05/05/23 BID DOCUMENTS

JOB NO. 23-471-1466
DRAWN ATR
CHECKED MTK
APPROVED MTK

SHEET TITLE
ELECTRICAL SYMBOLS LIST, ABBREVIATIONS, SCHEDULES & DETAILS

SHEET NUMBER
E050

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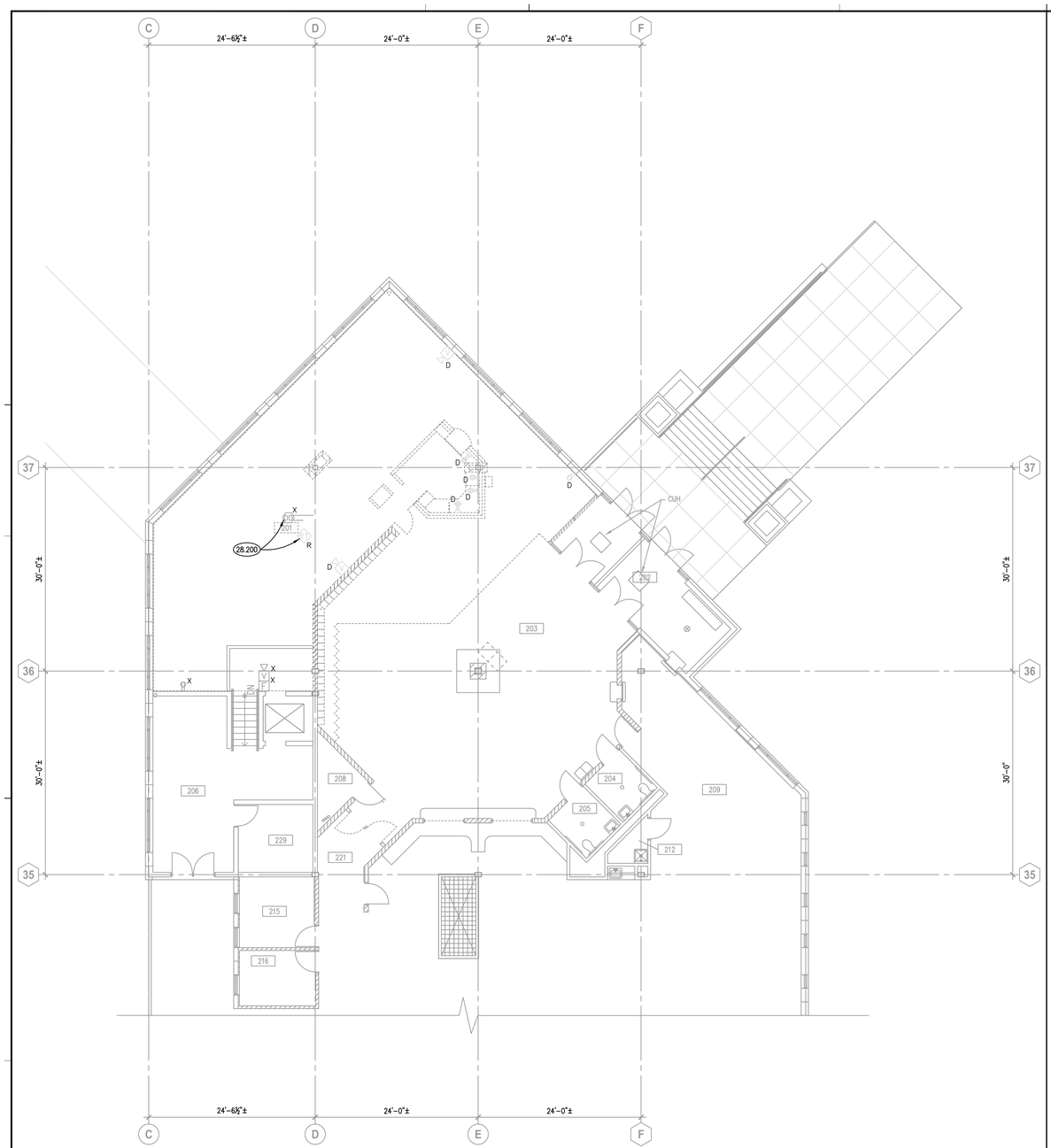
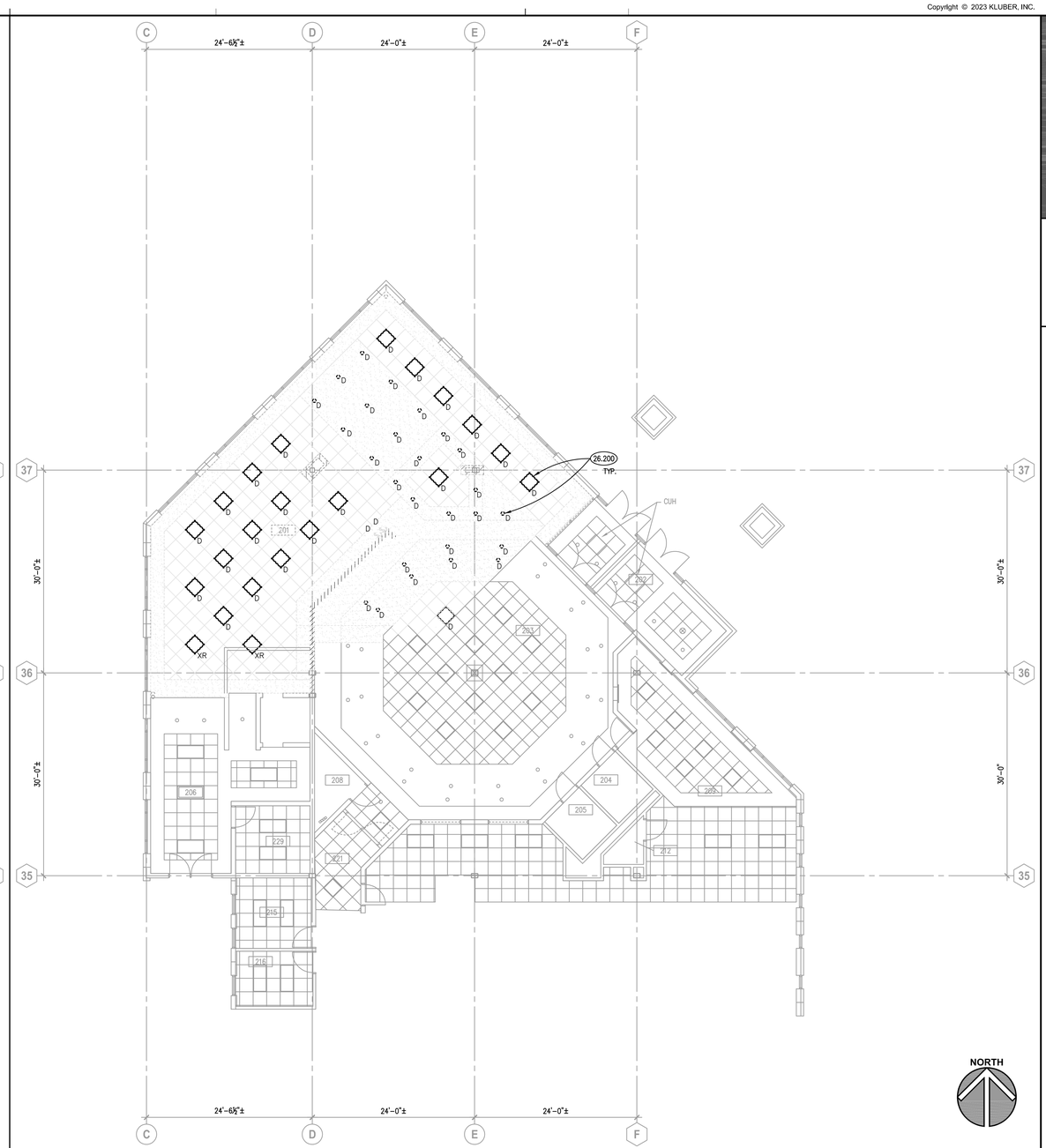


DEMOLITION POWER PLAN

SCALE: 1/8" = 1'-0" (2)



DEMOLITION LIGHTING PLAN

SCALE: 1/8" = 1'-0" (1)

KEYNOTES

KEYNOTES ARE TYPICALLY NOT DUPLICATED WITHIN A GIVEN DETAIL. AN UN-KEYNOTED ITEM IN A DETAIL IS THE SAME AS A KEYNOTED ITEM HAVING THE SAME APPEARANCE WITHIN THE SAME DETAIL.

26.200 DEMOLISH EXISTING LUMINAIRES. EXTEND EXISTING BRANCH CIRCUITRY AS NECESSARY TO LUMINAIRES TO REMAIN TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM. DISCONNECT AND PROTECT EXISTING BRANCH CIRCUIT HOMERUN FOR REUSE.

28.200 REMOVE AND PROTECT EXISTING DUCT MOUNTED SMOKE DETECTOR REMOTE TEST STATION. REINSTALL IN NEW LOCATION. COORDINATE FINAL LOCATION WITH OWNER/AHJ PRIOR TO REINSTALLATION.

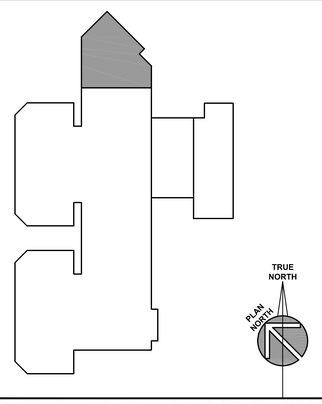
DEMOLITION NOTATION

DEMOLITION	
N	NEW DEVICE OR EQUIPMENT.
D	EXISTING ELECTRICAL OUTLET OR EQUIPMENT TO BE DEMOLISHED.
X	EXISTING ELECTRICAL OUTLET OR EQUIPMENT TO REMAIN. (CIRCUIT # = REROUTE EXISTING CIRCUIT TO NEW CIRCUIT NUMBER)
R	EXISTING ELECTRICAL OUTLET OR EQUIPMENT RELOCATED. (NEW LOCATION)
XR	EXISTING ELECTRICAL OUTLET OR EQUIPMENT TO BE REMOVED & RELOCATED(OLD LOCATION).

ROOM SCHEDULE

RM. NO.	ROOM NAME	RM. NO.	ROOM NAME
201	SHARED OFFICE		
201A	OFFICE		
201B	CONFERENCE ROOM		
201C	OFFICE		
201D	OFFICE		
201E	OFFICE		
201F	CORRIDOR		
201G	CLOSET		
201H	RESTROOM		
201J	RESTROOM		

KEY PLAN



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JOB NO.	23-471-1466
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SHEET TITLE

ELECTRICAL DEMOLITION PLANS

SHEET NUMBER

E210

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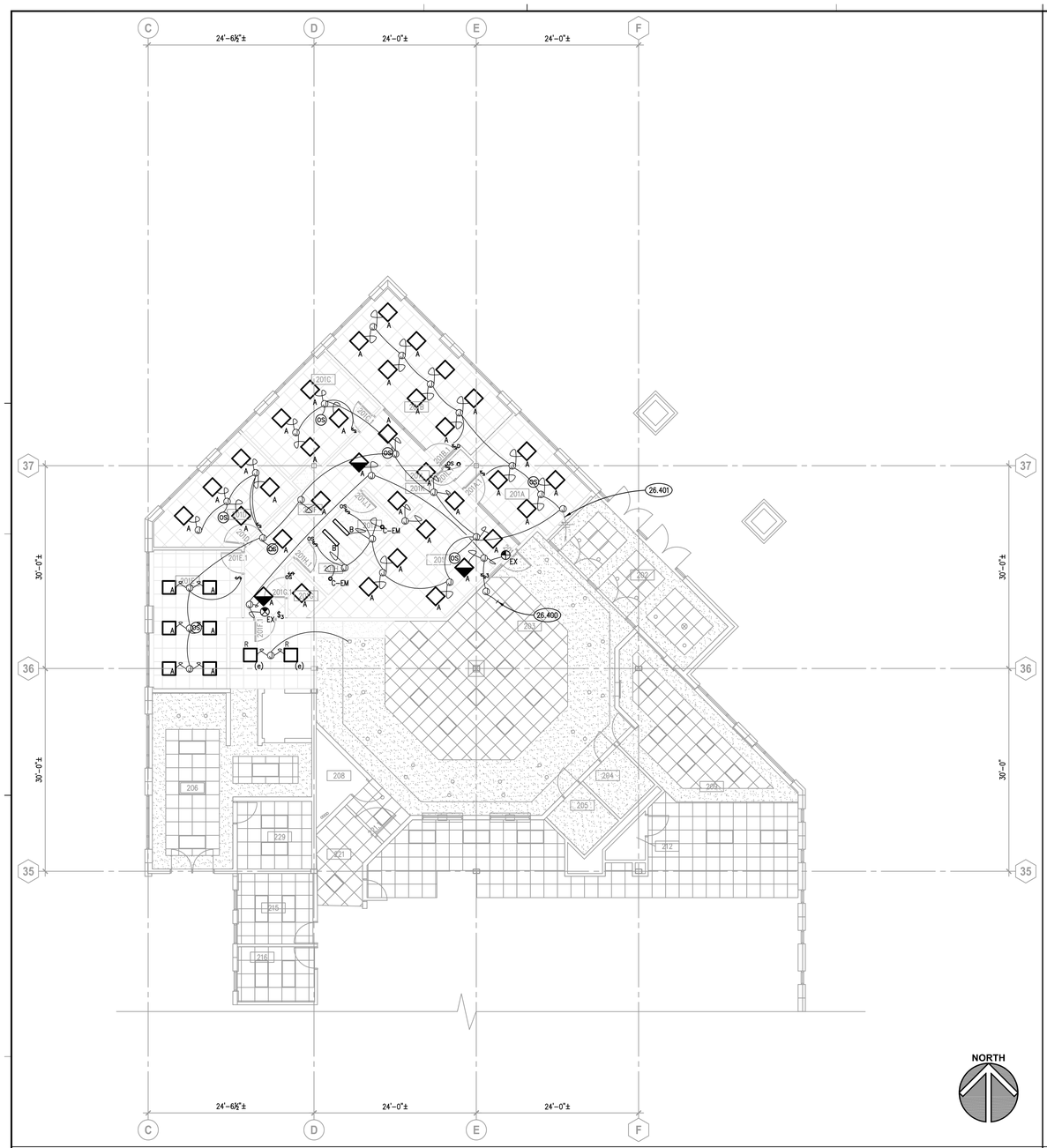
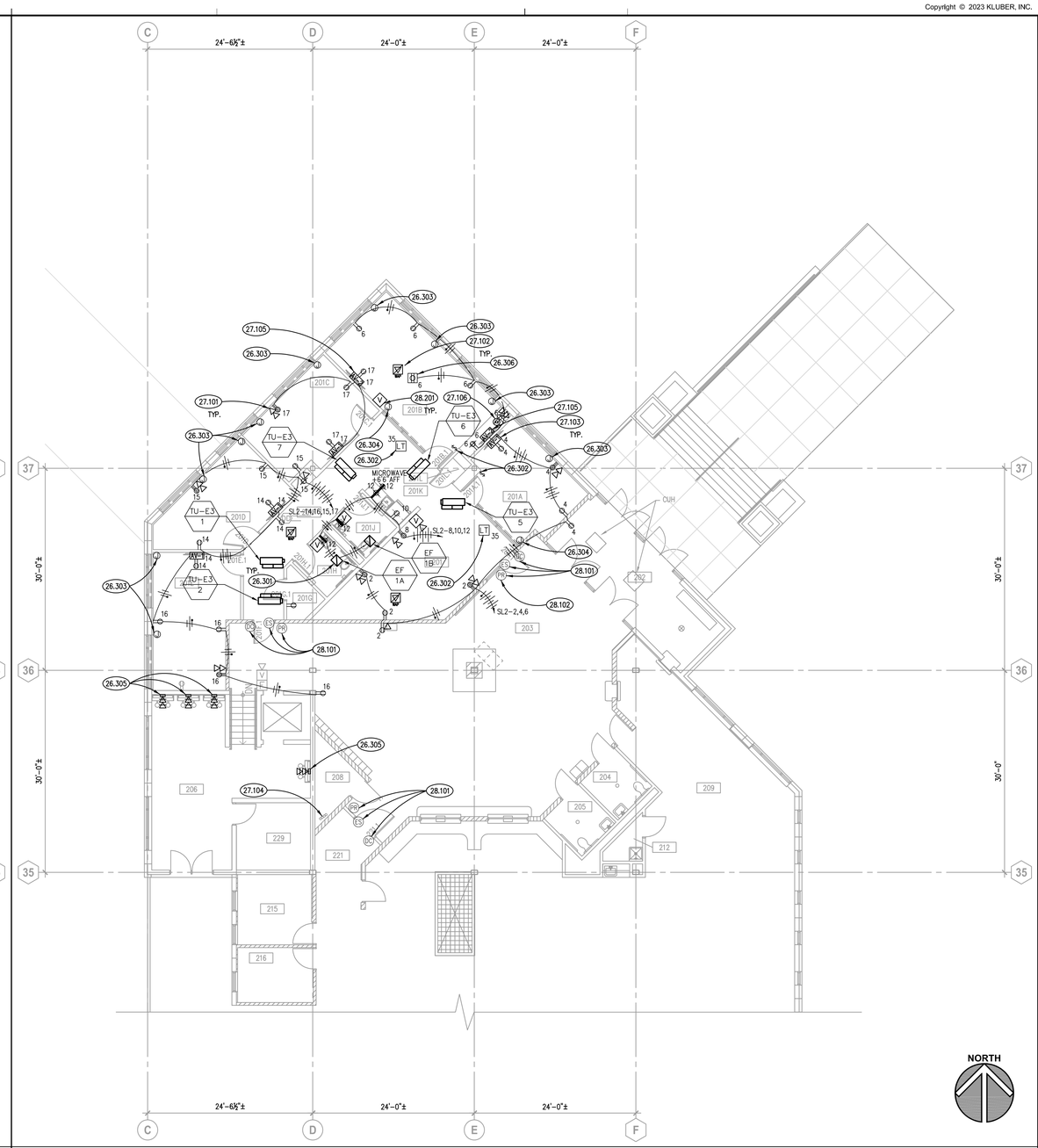


LIGHTING PLAN (2)
SCALE: 1/8" = 1'-0"



POWER PLAN (1)
SCALE: 1/8" = 1'-0"

TECHNOLOGY GENERAL NOTES

1. HORIZONTAL CABLING SYSTEM SHALL BE CATEGORY 6 COMPLIANT, PLENUM RATED, UNSHIELDED TWISTED PAIR TYPE. THE CABLING SYSTEM SHALL BE AN END-TO-END SOLUTION AND COVERED UNDER THE MANUFACTURER WARRANTY.
2. ALL COMMUNICATION OUTLETS AND CABLING MUST BE TESTED AND CERTIFIED IN COMPLIANCE WITH ANSI/IEEE 802.3 AND EIA/TIA 568 CATEGORY 6 COMPLIANCE SPECIFICATIONS.
3. COORDINATE LAYOUT AND INSTALLATION OF TELECOMMUNICATIONS PATHWAYS AND CABLING WITH THE OWNER'S TELECOMMUNICATIONS AND LAN EQUIPMENT.
4. COORDINATE TELECOMMUNICATION OUTLET/CONNECTOR LOCATION WITH THE LOCATION OF POWER RECEPTACLES AND FURNITURE AT EACH WORK AREA.
5. LABELING SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE ANSI/TIA-606-A DOCUMENT, MANUFACTURER'S RECOMMENDATION, AND BEST INDUSTRY PRACTICES.
6. WHEREAS REQUIRED, COORDINATE THE INSTALLATION OF CHASES, SLOTS AND SUPPORTING DEVICES, ALONG WITH OPENINGS AND SLEEVES IN OTHER BUILDING COMPONENTS DURING THE PROGRESS OF CONSTRUCTION, TO ALLOW FOR WIRING, CABLING AND EQUIPMENT INSTALLATIONS.
7. ALL LOW VOLTAGE WIRING INSTALLED ABOVE CEILING AND IN OPEN STRUCTURES MUST BE SUPPORT WITH J-HOOK HANGERS AND ATTACHED TO THE BUILDING STRUCTURE. HOOKS SHALL BE EVENLY SPACES WITH A MAXIMUM SPACING OF 4.5'. AN ABOVE CEILING INSPECTION IS REQUIRED PRIOR TO DROPPING THE CEILING TILES.
8. PROVIDE NECESSARY EQUIPMENT, ACCESSORIES AND MATERIALS TO INCORPERATE INTO OWNER'S CATV SYSTEM. PROVIDE A FULLY FUNCTIONAL SYSTEM THAT MEETS THE INTENDED DESIGN WHETHER EXPRESSLY SPECIFIED OR NOT.
9. INTEGRATE ACCESS CONTROL COMPONENTS INTO OWNER'S EXISTING HONEYWELL PROWATCH 3000 SYSTEM. PROVIDE NEW HONEYWELL PROWATCH PW5K1R2 PW-5000 SERIES DUAL READER MODULES. PROVIDE NECESSARY EQUIPMENT, ACCESSORIES AND MATERIALS FOR A FULLY FUNCTIONAL SYSTEM THAT MEETS THE INTENDED DESIGN WHETHER EXPRESSLY SPECIFIED OR NOT. ACCESS CONTROL PANELS ARE LOCATED IN RM B-226.

KEYNOTES

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26.300 LOCATION OF ELECTRICAL ROOM D-216.
26.301 PROVIDE RELAY TO INTERLOCK ROOM EXHAUST FAN ON/OFF WITH LIGHTING CONTROL OCCUPANCY SENSOR SWITCH (BASIS OF DESIGN: FUNCTIONAL DEVICES RIB2402B).
26.302 PROVIDE ELECTRICAL CONNECTION TO ELECTRONICALLY CONTROLLED SWITCHABLE GLASS. INSTALL LOW VOLTAGE TRANSFORMER, FURNISHED BY GLASS MANUFACTURER; LOCATE ABOVE ACCESSIBLE CEILING. PROVIDE ON/OFF TOGGLE SWITCH GANGED WITH ROOM LIGHTING SWITCH.
26.303 PROVIDE ELECTRICAL CONNECTION TO MOTORIZED SHADES.
26.304 ALTERNATE NO. 1 – PROVIDE ELECTRICAL CONNECTION TO MOTORIZED SHADES IN LIEU OF ELECTRONICALLY CONTROLLED SWITCHABLE GLASS.
26.305 PROVIDE TWO-CELL SURFACE RACEWAY FOR RELOCATED OWNER'S EXISTING VIDEO VISITATION EQUIPMENT. PROVIDE DATA RECEPTACLES AS SHOWN. HOMERUN DEDICATED 2#18 FROM EACH VIDEO MONITOR TO WALL-MOUNTED SECURITY CABINET LOCATED NOMINALLY 130' SOUTH OF INSTALLED LOCATION. FIELD VERIFY EXACT ROUGH-IN REQUIREMENTS WITH EXISTING SYSTEM PRIOR TO INSTALLATION.
26.306 PROVIDE RECESSED POKE-THRU FLOOR BOX (BASIS OF DESIGN – LEGRAND 6AT) WITH DUPLEX RECEPTACLE AND (2) PORT DATA OUTLET.

26.400 LOCATE AND INTERCEPT EXISTING EMERGENCY LIGHTING BRANCH CIRCUIT. EXTEND TO NEW EXIT SIGNAGE AND EMERGENCY/NIGHT LIGHTING AS INDICATED.
26.401 EXTEND EXISTING LIGHTING BRANCH CIRCUITRY TO NEW LUMINAIRES AS REQUIRED TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.

27.101 2 PORT DATA OUTLET – 4-INCH SQUARE BACKBOX WITH SINGLE-GANG RING.1 INCH CONDUIT FROM DEVICE BOX TO ACCESSIBLE CEILING. (2) CAT 6 NETWORK CABLES/JACKS ROUTED TO IDF IN RM E-107 THROUGH CONDUIT STUB IN RM E-208. CABLE COLOR: BLUE.
27.102 WAP OUTLET – (1) CAT 6 NETWORK CABLE WITH CEILING CONNECTOR PLUG ROUTED TO IDF IN RM E-107 THROUGH CONDUIT STUBS IN RM E-208. PROVIDE 30FT SERVICE LOOP SECURED ABOVE CEILING. OR ON BAR JOIST. CABLE COLOR: BLUE. WAP BY OWNER.
27.103 AV-1 – LEGRAND – MODEL: EFSB4 BOX. PROVIDE WITH: (1) 120V DUPLEX RECEPTACLE. 2 INCH CONDUIT FROM DEVICE BOX TO ACCESSIBLE SPACE ABOVE CEILING. (1CAT 6 NETWORK CABLES/JACKS ROUTE TO IDF IN RM E-107 THROUGH CONDUIT STUB IN RM E-208. CABLE COLOR: PURPLE. (1) RG-6 PLENUM RATED COAXIAL CABLE CONNECTED INTO EXISTING CATV SYSTEM.
27.104 CUT AND PROVIDE CONDUIT BUSHING ON EMPTY EXISTING 4" CONDUIT IN RM E-208 TO PROVIDE A SLEEVE THROUGH FLOOR FOR NEW DATA CABLING.
27.105 AV-2 – LEGRAND – MODEL: EFSB4 BOX. PROVIDE WITH: (1) 120V DUPLEX RECEPTACLE. 2 INCH CONDUIT FROM DEVICE BOX TO ACCESSIBLE SPACE ABOVE CEILING. (1CAT 6 NETWORK CABLES/JACKS ROUTE TO IDF IN RM E-107 THROUGH CONDUIT STUB IN RM E-208. CABLE COLOR: PURPLE. (1) RG-6 PLENUM RATED COAXIAL CABLE CONNECTED INTO EXISTING CATV SYSTEM. (1) HDMI FROM WALL BOX TO A/V OUTLET ABOVE COUNTER.
27.106 HDMI OUTLET – (1) HDMI CABLE FROM OUTLET LOCATION TO EACH WALL MOUNTED MONITOR 'AV-2' BOX.

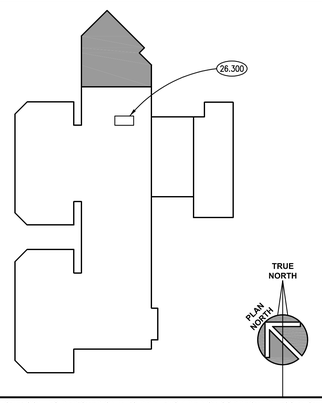
28.101 INTEGRATE ELECTRIC STRIKE, PROXIMITY READER AND DOOR CONTACT INTO NEW CONTROL BOARD OF EXISTING ACCESS CONTROL SYSTEM.
28.102 MULLION MOUNT PROXIMITY READER 42" AFF.

28.201 LOCATE, INTERCEPT AND EXTEND EXISTING NOTIFICATION APPLIANCE CIRCUIT TO NEW DEVICE AS NECESSARY TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.

ROOM SCHEDULE

RM. NO.	ROOM NAME	RM. NO.	ROOM NAME
201	SHARED OFFICE	201K	KITCHENETTE
201A	OFFICE	201L	CLOSET
201B	CONFERENCE ROOM	203	EXISTING LOBBY
201C	OFFICE		
201D	OFFICE		
201E	OFFICE		
201F	CORRIDOR		
201G	CLOSET		
201H	RESTROOM		
201J	RESTROOM		

KEY PLAN



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ELECTRICAL PLANS

SHEET NUMBER
E310

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PROJECT MANUAL
FOR

NEW ADMINISTRATION WING
ST. CHARLES, ILLINOIS

OWNER

KANE COUNTY SHERIFF
37W755 IL-38
ST. CHARLES, ILLINOIS 60175

ARCHITECT / ENGINEER

KLUBER, INC.
41 W. BENTON STREET
AURORA, ILLINOIS 60506

DATE: MAY 5, 2023
PROJECT NO. 23-471-1466

SECTION 00 01 01
PROJECT TITLE PAGE

PROJECT MANUAL

FOR

KANE COUNTY SHERIFF - NEW ADMINISTRATION WING

37W755 IL-38

ST. CHARLES, IL 60175

OWNER

KANE COUNTY SHERIFF

37W755 IL-38

ST. CHARLES, IL 60175

ARCHITECT / ENGINEER

KLUBER ARCHITECTS + ENGINEERS

41 W. BENTON STREET

AURORA, ILLINOIS 60506

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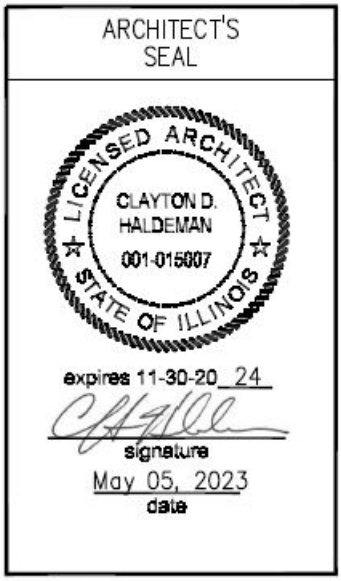
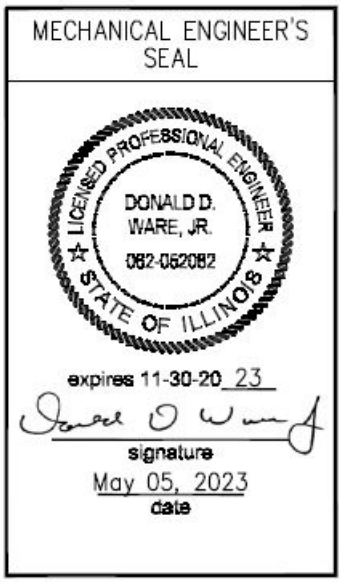
SECTION 00 01 07
SEALS PAGE

1.01 DESIGN PROFESSIONALS' SEALS

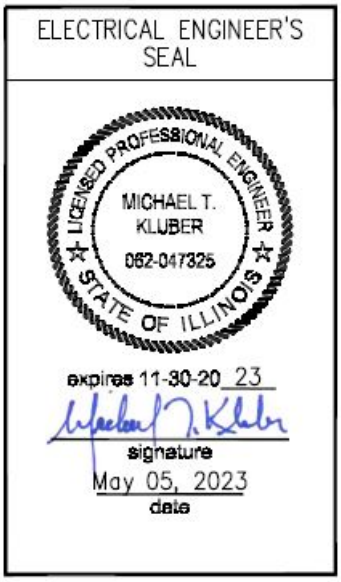
A. ARCHITECT



B. MECHANICAL ENGINEER



C. ELECTRICAL ENGINEER



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END OF SECTION

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SECTION 00 01 15
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1.01 GENERAL

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A410 DEMOLITION & NEW WORK FIRST FLOOR REFLECTED CEILING PLAN

A800 DOOR, FRAME & HARDWARE SCHEDULES, TOILET ACCESSORIES & FINISH SCHEDULE

A1100 INTERIOR PARTITION TYPES & DETAILS

1.03 MECHANICAL

M310 MECHANICAL FLOOR PLANS

M410 MECHANICAL SCHEDULES, DETAILS & TEMPERATURE CONTROLS

1.04 FIRE PROTECTION

F310 FIRE PROTECTION FLOOR PLANS

1.05 PLUMBING

P310 PLUMBING FLOOR PLANS

1.06 ELECTRICAL

E050 ELECTRICAL SYMBOLS LIST, ABBREVIATIONS, SCHEDULES & DETAILS

E230 ELECTRICAL DEMOLITION PLANS

E310 ELECTRICAL PLANS

END OF DOCUMENT

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SECTION 00 43 23
BID FORM SUPPLEMENT - LIST OF ALTERNATES

1.01 PARTICULARS

A. The following is the list of Alternates referenced in the bid submitted by:

(Bidder) _____

Dated _____ and which is an integral part of the Bid Form.

1.02 ALTERNATES LIST

A. The following amounts shall be added to or deducted from the Bid Amount. Refer to Section 01 23 00 - Alternates: Schedule of Alternates.

1. Alternate # 1: (Add) (Deduct) $ _____

END OF DOCUMENT

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SECTION 01 10 00
SUMMARY

PART 1 GENERAL

1.01 PROJECT

A. Project Name: KANE COUNTY SHERIFF - NEW ADMINISTRATION WING.

B. Architect/Engineer's Name: Kluber Architects + Engineers.

C. The Project consists of the construction of selective demolition, masonry work, steel lintels, doors and glazing, drywall, painting, flooring, ceilings, electrical, plumbing, HVAC, fire suppression and specialties equipment.

1.02 CONTRACT DESCRIPTION

A. Contract Type: A single prime contract based on a Stipulated Price.

1.03 DESCRIPTION OF ALTERATIONS WORK

A. Scope of demolition and removal work is indicated on drawings and specified in Section 02 41 00.

B. Scope of alterations work is indicated on drawings.

C. Contractor is required to remove and store the following prior to start of work, for later reinstallation by Contractor:
   1. Existing TV monitor in lobby.
   2. Existing lockers in lobby.

D. Contractor is required to relocate the following:
   1. Communication terminals. 8 total/ 6 general and 2 ADA compliant. See A310 for locations.

1.04 WORK BY OWNER

A. Owner will relocate the following:
   1. Benches in lobby.

B. Owner will supply the following for installation by Contractor:
   1. TV Monitors.
   2. Refrigerator.
   3. Microwave.

1.05 OWNER OCCUPANCY

A. Owner intends to continue to occupy adjacent portions of the existing building during the entire construction period.

B. Owner intends to occupy the Project upon Substantial Completion.

C. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.

D. Schedule the Work to accommodate Owner occupancy.

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1.06 CONTRACTOR USE OF SITE AND PREMISES

A. Construction Operations: Limited to areas noted on Drawings.
   1. Locate and conduct construction activities in ways that will limit disturbance to site.

B. Arrange use of site and premises to allow:
   1. Use of site and premises by the public.

C. Provide access to and from site as required by law and by Owner:
   1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
   2. Do not obstruct roadways, sidewalks, or other public ways without permit.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

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SECTION 01 21 00
ALLOWANCES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Cash allowances.

B. Contingency allowance.

C. Payment and modification procedures relating to allowances.

1.02 CASH ALLOWANCES

A. Costs Included in Cash Allowances: Cost of product to Contractor or subcontractor, less applicable trade discounts , less applicable taxes .

B. Costs Not Included in Cash Allowances: Product delivery to site and handling at the site, including unloading, uncrating, and storage; protection of products from elements and from damage; and labor for installation and finishing. These costs are to be borne by the Contractor and are to be included in the Base Bid .

C. Differences in costs will be adjusted by Change Order.

1.03 CONTINGENCY ALLOWANCE

A. Contractor's costs for products, delivery, installation, labor, payroll, taxes and equipment rental will be included in Change Orders authorizing expenditure of funds from this Contingency Allowance.

B. Funds will be drawn from the Contingency Allowance only by Change Order.

C. Bond, insurance, overhead and profit fees on Change Orders paid out of Contingency Allowances will not be permitted. The Contractor must carry in its Base Bid OH&P costs on Contingency Allowance funds expenditures.

D. At closeout of Contract, funds remaining in Contingency Allowance will be credited to Owner by Change Order.

1.04 ALLOWANCES SCHEDULE

A. Contingency Allowance: Include in the Base Bid the stipulated sum of $60,000.00 for use upon Owner's instructions.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

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SECTION 01 23 00
ALTERNATES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Description of Alternates.

B. Procedures for pricing Alternates.

C. Documentation of changes to Contract Sum and Contract Time.

1.02 RELATED REQUIREMENTS

A. Document 00 21 13 - Instructions to Bidders: Instructions for preparation of pricing for Alternates.

B. Document 00 43 23 - Bid Form Supplement - List of Alternates: List of Alternates as supplement to Bid Form.

C. Document 00 52 00 - Agreement Form: Incorporating monetary value of accepted Alternates.

1.03 ACCEPTANCE OF ALTERNATES

A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.

B. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

1.04 SCHEDULE OF ALTERNATES

A. Alternate No. 1 - State the amount to be added to or deducted from the Base Bid to provide window shades & vision glass in lieu of electrical controlled switchable glass and associated electrical work:
   1. Base Bid Item: Section 08 88 36.16 and Drawing number A800 including items tagged as EC1.
   2. Alternate Item: Section 12 24 00 and Drawing number A310 & A800 including items keynoted 12.241.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

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SECTION 01 30 00
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. General administrative requirements.

B. Preconstruction meeting.

C. Progress meetings.

D. Construction progress schedule.

E. Architect/Engineer-provided CAD files.

F. Requests for Information (RFI) procedures.

G. Submittals for review, information, and project closeout.

H. Number of copies of submittals.

I. Submittal procedures.

1.02 RELATED REQUIREMENTS

A. Section 01 60 00 - Product Requirements: General product requirements.

B. Section 01 70 00 - Execution and Closeout Requirements: Additional coordination requirements.

C. Section 01 78 00 - Closeout Submittals: Project record documents; operation and maintenance data; warranties and bonds.

1.03 GENERAL ADMINISTRATIVE REQUIREMENTS

A. Comply with requirements of Section 01 70 00 - Execution and Closeout Requirements for coordination of execution of administrative tasks with timing of construction activities.

B. Make the following types of submittals to Architect/Engineer:
   1. Requests for Information (RFI).
   2. Requests for substitution.
   3. Shop drawings, product data, and samples.
   4. Applications for payment and change order requests.
   5. Progress schedules.
   6. Correction Punch List and Final Correction Punch List for Substantial Completion.
   7. Closeout submittals.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

A. Architect/Engineer will schedule a meeting after Notice of Award.

B. Attendance required:
   1. Owner.

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2. Architect/Engineer.
3. Contractor.

C. Agenda:
1. Execution of Owner-Contractor Agreement.
2. Submission of executed bonds and insurance certificates.
3. Distribution of Contract Documents.
4. Designation of personnel representing the parties to Contract and Architect/Engineer.
5. Procedures and processing of field decisions, Submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
6. Scheduling.

D. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect/Engineer, Owner, participants, and those affected by decisions made.

3.02 PROGRESS MEETINGS

A. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.

B. Attendance Required:
1. Contractor.
2. Owner.
3. Architect/Engineer.
4. Contractor's superintendent.

C. Agenda:
1. Review minutes of previous meetings.
2. Review of work progress.
3. Field observations, problems, and decisions.
4. Identification of problems that impede, or will impede, planned progress.
5. Review of Submittals schedule and status of Submittals.
6. Maintenance of progress schedule.
7. Corrective measures to regain projected schedules.
8. Planned progress during succeeding work period.
9. Maintenance of quality and work standards.
10. Effect of proposed changes on progress schedule and coordination.
11. Other business relating to work.

D. Record minutes and distribute copies within 2 days after meeting to participants, with copies to Architect/Engineer, Owner, participants, and those affected by decisions made.

3.03 CONSTRUCTION PROGRESS SCHEDULE

A. If preliminary schedule requires revision after review, submit revised schedule within 7 days.

B. Submit updated schedule with each Application for Payment.

3.04 ARCHITECT/ENGINEER-PROVIDED CAD FILES

A. After the execution of the Contract, Architect/Engineer will provide, free of charge, upon receipt of a properly completed and signed request utilizing “Electronic Data Transfer Consent Form” at the end of this Specification Section, CAD files depicting graphic information for the project as follows:

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1. Architectural Floor Plans: Column grid, walls, floors, stairs, doors, windows, room numbers, ceiling grid, mechanical diffusers, plumbing fixtures, sprinkler heads (if depicted in Bid Documents) and lights.

B. Contractor acknowledges and accepts that the Architectural Floor Plans do not contain structural, mechanical, electrical, plumbing, fire protection and other building systems information depicted in the Bidding Documents. Examples of information not contained in these files include, but are not limited to, title blocks, keynotes, schedules, mechanical ductwork and equipment, electrical device symbols, circuit numbers and home runs, plumbing equipment, piping runs and riser diagrams, and architectural/engineering text or details. No other CAD files, data or information will be provided.

C. Only requests from Prime Contractors will be honored. Subcontractors must obtain the files from their respective Prime Contractors.

D. In submitting a request, Contractor acknowledges that:
   1. Architect/Engineer bears no responsibility for the data or its transmission,
   2. Use of the data by the Contractor or his Subcontractors in no way relieves the Contractor of his obligations under the Contract,
   3. Contractor is solely liable for any and all claims arising from any and all products generated by the Contractor or its Subcontractors employing the data,
   4. Contractor and its Subcontractors have a limited, non-exclusive license to use the data solely in connection with the Work of the Project, and that
   5. Architect/Engineer retains all rights, including copyright, to the data.

3.05 REQUESTS FOR INFORMATION (RFI)

A. Definition: A request seeking one of the following:
   1. An interpretation, amplification, or clarification of some requirement of Contract Documents arising from inability to determine from them the exact material, process, or system to be installed; or when the elements of construction are required to occupy the same space (interference); or when an item of work is described differently at more than one place in Contract Documents.
   2. A resolution to an issue which has arisen due to field conditions and affects design intent.

B. Whenever possible, request clarifications at the next appropriate project progress meeting, with response entered into meeting minutes, rendering unnecessary the issuance of a formal RFI.

C. Preparation: Prepare an RFI immediately upon discovery of a need for interpretation of Contract Documents. Failure to submit a RFI in a timely manner is not a legitimate cause for claiming additional costs or delays in execution of the work.
   1. Prepare a separate RFI for each specific item.
      a. Review, coordinate, and comment on requests originating with subcontractors and/or materials suppliers.
      b. Do not forward requests which solely require internal coordination between subcontractors.
   2. Prepare in a format and with content acceptable to Owner.
      a. Use AIA G716 - Request for Information .
   3. Combine RFI and its attachments into a single electronic file. PDF format is preferred.

D. Reason for the RFI: Prior to initiation of an RFI, carefully study all Contract Documents to confirm that information sufficient for their interpretation is definitely not included.

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1. Include in each request Contractor's signature attesting to good faith effort to determine from Contract Documents information requiring interpretation.
2. Unacceptable Uses for RFIs: Do not use RFIs to request the following::
   a. Approval of submittals (use procedures specified elsewhere in this section).
   b. Approval of substitutions (see Section - 01 60 00 - Product Requirements)
   c. Changes that entail change in Contract Time and Contract Sum (comply with provisions of the Conditions of the Contract).
   d. Different methods of performing work than those indicated in the Contract Drawings and Specifications (comply with provisions of the Conditions of the Contract).
3. Improper RFIs: Requests not prepared in compliance with requirements of this section, and/or missing key information required to render an actionable response. They will be returned without a response, with an explanatory notation.
4. Frivolous RFIs: Requests regarding information that is clearly indicated on, or reasonably inferable from, Contract Documents, with no additional input required to clarify the question. They will be returned without a response, with an explanatory notation.
   a. The Owner reserves the right to assess the Contractor for the costs (on time-and-materials basis) incurred by the Architect/Engineer, and any of its consultants, due to processing of such RFIs.

E. Content: Include identifiers necessary for tracking the status of each RFI, and information necessary to provide an actionable response.
   1. Official Project name and number, and any additional required identifiers established in Contract Documents.
   2. Owner's, Architect/Engineer's, and Contractor's names.
   3. Discrete and consecutive RFI number, and descriptive subject/title.
   4. Issue date, and requested reply date.
   5. Reference to particular Contract Document(s) requiring additional information/interpretation. Identify pertinent drawing and detail number and/or specification section number, title, and paragraph(s).
   6. Annotations: Field dimensions and/or description of conditions which have engendered the request.
   7. Contractor's suggested resolution: A written and/or a graphic solution, to scale, is required in cases where clarification of coordination issues is involved, for example; routing, clearances, and/or specific locations of work shown diagrammatically in Contract Documents. If applicable, state the likely impact of the suggested resolution on Contract Time or the Contract Sum.

F. Attachments: Include sketches, coordination drawings, descriptions, photos, submittals, and other information necessary to substantiate the reason for the request.

G. RFI Log: Prepare and maintain a tabular log of RFIs for the duration of the project.
   1. Indicate current status of every RFI. Update log promptly and on a regular basis.
   2. Note dates of when each request is made, and when a response is received.
   3. Highlight items requiring priority or expedited response.
   4. Highlight items for which a timely response has not been received to date.
   5. Identify and include improper or frivolous RFIs.

H. Review Time: Architect/Engineer will respond and return RFIs to Contractor within seven calendar days of receipt. For the purpose of establishing the start of the mandated response period, RFIs received after 3:00 PM will be considered as having been received on the following regular working

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day.
1. Response period may be shortened or lengthened for specific items, subject to mutual agreement, and recorded in a timely manner in progress meeting minutes.

I. Responses: Content of answered RFIs will not constitute in any manner a directive or authorization to perform extra work or delay the project. If in Contractor's belief it is likely to lead to a change to Contract Sum or Contract Time, promptly issue a notice to this effect, and follow up with an appropriate Change Order request to Owner.
1. Response may include a request for additional information, in which case the original RFI will be deemed as having been answered, and an amended one is to be issued forthwith. Identify the amended RFI with an R suffix to the original number.
2. Do not extend applicability of a response to specific item to encompass other similar conditions, unless specifically so noted in the response.
3. Upon receipt of a response, promptly review and distribute it to all affected parties, and update the RFI Log.
4. Notify Architect/Engineer within seven calendar days if an additional or corrected response is required by submitting an amended version of the original RFI, identified as specified above.

3.06 SUBMITTALS FOR REVIEW

A. When the following are specified in individual sections, submit them for review:
1. Product data.
2. Shop drawings.
3. Samples for selection.
4. Samples for verification.

B. Submit to Architect/Engineer for review for the limited purpose of checking for compliance with information given and the design concept expressed in Contract Documents.

C. Samples will be reviewed for aesthetic, color, or finish selection.

D. After review, provide copies and distribute in accordance with Submittal PROCEDURES article below and for record documents purposes described in Section 01 78 00 - Closeout Submittals.

3.07 SUBMITTALS FOR INFORMATION

A. When the following are specified in individual sections, submit them for information:
1. Design data.
2. Certificates.
3. Manufacturer's instructions.
4. Manufacturer's field reports.
5. Other types indicated.

B. Submit for Architect/Engineer's knowledge as contract administrator or for Owner.

3.08 SUBMITTALS FOR PROJECT CLOSEOUT

A. Submit Correction Punch List for Substantial Completion.

B. Submit Final Correction Punch List for Substantial Completion.

C. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 01 78 00 - Closeout Submittals:

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1. Project record documents.
2. Operation and maintenance data.
3. Warranties.
4. Bonds.
5. Other types as indicated.

D. Submit for Owner's benefit during and after Project completion.

3.09 NUMBER OF COPIES OF SUBMITTALS

A. Documents for Review:
   1. Submit via email in Adobe PDF electronic file format at native sheet size and right-side up. Architect/Engineer will return via email a reviewed copy in Adobe PDF electronic file format. Files not properly sized and rotated will be rejected. Illegible files will be rejected.

B. Documents for Information: Submit via email in Adobe PDF electronic file format. Submitted documents are for Architect/Engineer's information and reference only, and will not be reviewed or returned.

C. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect/Engineer.
   1. Submit original, physical samples. With each physical sample, submit Adobe PDF electronic copies of scanned physical original samples. Architect/Engineer will return via email a reviewed scanned copy in Adobe PDF electronic file format.
   2. Retained samples will not be returned to Contractor unless specifically so stated.

3.10 SUBMITTAL PROCEDURES

A. General Requirements:
   1. Use a single transmittal for related items.
   2. Submit separate packages of submittals for review and submittals for information, when included in the same specification section.
   3. Transmit using approved form.
   4. Number each submittal. Prefix the submittal number with the Specification Section number to which the submittal pertains. For revised submittals use original number and a sequential alphanumeric suffix. **Items submitted without a Specification Section number, or with an incorrect Specification Section number will delay the review process.**
   5. Identify: Project; Contractor; subcontractor or supplier; pertinent drawing and detail number; and specification section number, article and paragraph, as appropriate on each copy.
   6. Correlate submitted items with specified products; clearly indicate the specified product that corresponds to each submitted item. **Submitted items not clearly correlated with specified items will delay the review process.**
   7. When options or optional features available for a Product are indicated in a Submittal, and selections for those options/features are indicated in the Contract Documents, identify on the Submittal the selection indicated in the Contract Documents. **Submittals that fail to identify specified options or optional features may be returned marked "Rejected" or "Revise and Resubmit".**
   8. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction work, and coordination of information is in accordance with the requirements of the work and Contract Documents.

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a. Submittals from sources other than the Contractor, or without Contractor's transmittal will not be acknowledged, reviewed, or returned.

9. Deliver each submittal on date noted in submittal schedule, unless an earlier date has been agreed to by all affected parties, and is of the benefit to the project.
   a. Deliver submittals to Architect/Engineer at business address.
10. Schedule submittals to expedite the Project, and coordinate submission of related items.
   a. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
   b. For sequential reviews involving Architect/Engineer's consultants, Owner, or another affected party, allow an additional 7 days.
11. Clearly identify variations from the Contract Documents. Regardless of the type of variation, Contractor is solely responsible for errors in the field or performance issues that arise from Submittal variations from the requirements of the Contract Documents if those variations were not expressly noted to specifically identify for and describe to the reviewer the nature of the variation from the Contract Documents.
12. Provide space for Contractor's review stamp and a 4 inch x 3 inch clear space for Architect/Engineer's review stamp.
13. Promptly return submittals marked "Rejected" or "Revise and Resubmit" to originating subcontractor supplier, and faithfully ensure the prompt resubmittal of the correct or revised information.
14. When revised for resubmission, identify all changes made since previous submission. Use clouds, highlights or other means acceptable to Architect/Engineer. **Resubmittals that do not clearly identify all changes may be delayed and/or returned to the Contractor unreviewed.**
15. Contractor is entitled to one (1) resubmittal of each Submittal For Review or Submittal For Project Closeout rejected by Architect/Engineer or returned by Architect/Engineer for further action. Thereafter, Contractor shall pay the cost of all further Architect/Engineer reviews of any Submittal For Review or Submittal for Project Closeout, at a rate of $200.00/hour. Cost of such further reviews will be deducted from the Contract Sum by Change Order.
16. Promptly distribute and coordinate the requirements of reviewed submittals with affected parties. Instruct parties to promptly report inability to comply with requirements.
17. Where indicated on the Drawings or in respective product specification Sections, submit reviewed submittals to Authority Having Jurisdiction (AHJ).
18. Incomplete submittals will not be reviewed, unless they are partial submittals for distinct portion(s) of the work, and have received prior approval for their use.
19. Submittals not requested will be returned "Not Reviewed".

B. Product Data Procedures:
   1. Submit only information required by individual specification sections.
   2. Collect required information into a single submittal.
   3. Submit concurrently with related shop drawing submittal.
   4. Do not submit (Material) Safety Data Sheets for materials or products.

C. Shop Drawing Procedures:
   1. Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting Contract Documents and coordinating related work.
   2. Generic, non-project-specific information submitted as shop drawings do not meet the requirements for shop drawings.

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D. Samples Procedures:
   1. Transmit related items together as single package.
   2. When relevant, identify each item to allow review for applicability in relation to shop drawings showing installation locations.

E. Submittal reviews may be delayed and/or Submittals may be returned marked "Rejected" or "Revise and Resubmit" for any of the following reasons:
   1. Submittals submitted outside the scheduled dates of the Submittal Schedule.
   2. Submittals are incomplete or are missing information.
   3. Submittals are not submitted in accordance with procedures outlined in this Section, including, but not limited to:
      a. Specification Section number not indicated on submittal or transmittal.
      b. Contractor's review stamp missing.
      c. Submitted items not correlated with specified products.
      d. Re-submitted items not clearly identifying changes.

3.11 SUBMITTAL REVIEW

A. Submittals for Review: Architect/Engineer will review each submittal, and approve, or take other appropriate action.

B. Submittals for Information: Architect/Engineer will not acknowledge receipt, and take no other action.

C. Architect/Engineer's actions will be reflected by marking each returned submittal using virtual stamp on electronic submittals.
   1. Notations may be made directly on submitted items and/or listed on appended Submittal Review cover sheet.

D. Architect/Engineer's and consultants' actions on items submitted for review:
   1. Authorizing purchasing, fabrication, delivery, and installation:
      a. "No Exception Taken", or language with same legal meaning.
         1) Resubmission is not required or requested.
         2) Resubmitted items will not be acknowledged.
      b. "Make Corrections Noted", or language with same legal meaning.
         1) Resubmission is not required or requested.
         2) Resubmitted items may be returned marked "Not Requested, Not Reviewed'.
   2. Not Authorizing fabrication, delivery, and installation:
      a. "Revise and Resubmit".
         1) Resubmit revised item, with review notations acknowledged and incorporated.
         2) Clearly identify all revisions.
         3) Non-responsive resubmittals may be rejected.
      b. "Rejected".
         1) Submit item complying with requirements of Contract Documents.
      c. "Submit Specified Item".
         1) Submit item complying with requirements of Contract Documents.

END OF SECTION

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ELECTRONIC DATA TRANSFER CONSENT FORM

Project Name: NEW ADMINISTRATION WING
37W755 IL-38
St. CHARLES, ILLINOIS 60175

Project No.: 23-471-1466

Owner: KANE COUNTY SHERIFF

Your Work: _____

KLUBER, INC. (hereinafter referred to as "Kluber") an Illinois corporation, is providing electronic data to you solely at your request and for your convenience. By accepting and opening any of the electronic data files, you agree that Kluber bears no liability for the data or its transmission to you and that you are solely liable for any and all claims referring or relating to any and all products you, or your Subcontractors, may generate with the data.

You acknowledge that you have a limited non-exclusive license to use the information solely in connection with your work on the project captioned above, and that Kluber retains all rights, including copyright, to the data.

Acknowledged by: _____ _____
(Printed Name) (Signature)

Company: _____

Date: _____ Email: _____

Architectural Floor Plans are transmitted for the contractors' use as backgrounds for shop drawings and as-built drawings, and, as such, contain graphic information for column grid, walls, floors, stairs, doors, windows, room numbers, ceiling grid, lights, diffusers and sprinkler heads where indicated on Bid Documents. Plans do not contain title blocks, keynotes, schedules, mechanical ductwork and equipment, electrical device symbols, circuit numbers and home runs, plumbing equipment, piping runs and riser diagrams, and architectural/engineering text and details. Plans depict entire floors and are not formatted, partial plans as depicted in the Bidding Documents. Files are provided in R2013 .DWG format.)

SECTION 01 40 00
QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Submittals.

B. Quality assurance.

C. Control of installation.

D. Defect Assessment.

1.02 RELATED REQUIREMENTS

A. Section 01 41 00 - Regulatory Requirements.

B. Section 01 42 00 - References.

C. Section 01 60 00 - Product Requirements: Requirements for material and product quality.

1.03 REFERENCE STANDARDS

A. ASTM E1155 - Standard Test Method for Determining F(F) Floor Flatness and F(L) Floor Levelness Numbers; 1996 (Reapproved 2008).

B. ASTM C140 - Standard Test Methods of Sampling and Testing Concrete Masonry Units and Related Units; 2011.

C. ASTM C780 - Standard Test Method for Preconstruction and Construction Evaluation of Mortars for Plain and Reinforced Unit Masonry; 2010.

D. ASTM C1314 - Standard Test Method for Compressive Strength of Masonry Prisms; 2010.

E. ASTM C1357 - Standard Test Methods for Evaluating Masonry Bond Strength; 2009.

1.04 SUBMITTALS

A. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to Architect/Engineer, in quantities specified for Product Data.
   1. Indicate material or product complies with or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
   2. Certificates may be recent or previous test results on material or product, but must be acceptable to Architect/Engineer.

B. Manufacturer's Instructions: When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, for the Owner's information. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

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1.05 REGULATORY REQUIREMENTS - SEE SECTION 01 41 00

1.06 REFERENCES AND STANDARDS - SEE SECTION 01 42 00

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.

B. Comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect/Engineer before proceeding.

D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Have work performed by persons qualified to produce required and specified quality.

F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

3.02 DEFECT ASSESSMENT

A. Replace Work or portions of the Work not complying with specified requirements.

B. If, in the opinion of Owner, it is not practical to remove and replace the work, Owner will direct an appropriate remedy or adjust payment.

END OF SECTION

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SECTION 01 41 00
REGULATORY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. General.

B. Definitions.

C. Quality Assurance.

D. Regulatory Requirements.

1.02 RELATED SECTIONS

A. Section 01 10 00 - Summary.

B. Section 01 42 00 - References.

1.03 GENERAL

A. Comply with all applicable laws, rules, regulations, codes and ordinances.

B. If the Contractor observes that the Contract Documents may be at variance with specified codes, notify the Architect/Engineer immediately. Architect/Engineer shall issue all changes in accordance with the General Conditions.

C. It shall not be the Contractor's primary responsibility to make certain that the Contract Documents are in accordance with all applicable laws, rules and regulations, however, when the Contractor performs work knowing or having reason to know that the work in question is contrary to applicable laws, rules, and regulations, and fails to notify the Architect/Engineer, the Contractor shall pay all costs arising therefrom.

1.04 DEFINITIONS

A. Definitions:
   1. Codes: Codes are statutory requirements, rules or regulations of governmental entities.
   2. Standards: Standards are requirements that have been established as accepted criteria, set general consent.

1.05 QUALITY ASSURANCE

A. The Architect/Engineer has designed the project to applicable code requirements and has copies of said codes available for the Contractor's inspection.

B. The Contractor shall:
   1. Ensure that copies of codes and standards referenced herein or specified in individual specifications sections are available to Contractor's personnel, agents, and Sub-Contractors.
   2. Ensure that Contractor's personnel, agents, and Sub-Contractors are familiar with the workmanship and requirements of applicable codes and standards.

1.06 REGULATORY REQUIREMENTS

A. Source and Requirements: Verify amendments with local code officials.
   1. Local code requirements:

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a. ICC International Building Code, 2021 Edition.
b. ICC International Mechanical Code, 2021 Edition.
c. National Electrical Code, 2020 Edition.

2. State code requirements:
   a. Illinois Accessibility Code, 2018 Edition.
   b. Illinois Energy Conservation Code (ICC International Energy Conservation Code, 2018 Edition, with State of Illinois modifications.
   c. Illinois Plumbing Code 2014
3. Information and Requirements for Utility Services: Local utility companies.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

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SECTION 01 42 00
REFERENCES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Drawing symbols, abbreviations and acronyms.

B. Definitions of terms used throughout the Contract Documents.

C. Explanation of specification format and content.

D. Requirements relating to referenced standards.

E. Applicability of referenced standards.

F. List of industry organizations and certain of their respective documents.

1.02 DRAWING SYMBOLS AND CONVENTIONS

A. Abbreviations and graphic symbols are defined on the General Notes, Symbols & Abbreviations sheet of the drawings.

B. Generally, symbols used on the mechanical and electrical drawings conform to those recommended by ASHRAE, though, where appropriate, these symbols are supplemented by more specific symbols as recommended by ASME, ASPE, or the IEEE.

1.03 DEFINITIONS

A. Where the terms "indicated", "noted", "scheduled", "shown", or "specified" are used it is to help locate the reference; no limitation on location is intended except as specifically noted.

B. Where the terms "directed", "requested", "authorized", "approved", are used as in "directed by the Architect/Engineer", no implied meaning shall be construed to extend the Architect/Engineer's responsibilities into the Contractor's purview of construction supervision.

C. Where the term "approved" is used in conjunction with the Architect/Engineer's action on submittals, requests or applications it is limited to the duties of the Architect/Engineer as described in the Agreement, and the General and Supplemental Conditions of the Contract. Such use of the term "approval" shall not limit or release the Contractor from his responsibility to fulfill Contract requirements.

D. Where the term "regulations" is used it means all applicable statutes, laws, ordinances, and orders issued by authorities having jurisdiction, as well as construction industry standards, rules, or conventions that address performance of the Work.

E. The "Project Site" is the space available to the Contractor for performance of construction activities. The Project Site may be for the exclusive use of the Contractor and his activities or may be used in conjunction with others performing other construction or related activities on the Project. Unless the extent of the Project Site is indicated on the Drawings, means the limits of the area within the property line of the parcel on which the Project is located, subject to the limitations and restrictions of local ordinance and the discretion of the Owner.

F. Where the term "furnish" is used it means supply, deliver to, and unload and store at the Project Site until the Work is ready for the item to be assembled and incorporated into the Work.

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G. Where the term "install" is used it is meant to describe operations at the Project Site to include uncrating, assembling, placing, anchoring, connecting to utilities, finishing, protecting, cleaning and all other similar operations required to fully incorporate an item into the Work.

H. Where the term “provide” is used it means “furnish and install” as defined above.

I. Where the term "refurbish" is used it means refinish, repair and otherwise restore to like-new condition.

J. Where the terms "remove" or "demolish" are used they mean safely disconnect from existing utilities, permanently extract from the Work and the Project Site, and legally dispose of off-site.

K. Where the terms "temporarily remove" or "salvage" are used they mean safely disconnect from existing utilities and carefully extract from the Work so as to prevent damage to the item and the Work.
   1. If the item is to be reinstalled or relocated as part of the Work, these terms also mean clean, adjust, lubricate and otherwise restore to best possible condition without repair or refinishing.
   2. Otherwise, these terms also mean clean item surfaces and turn over to the Owner for storage and possible future use.

L. Where the term "reinstall" is used it means the same as "install", with respect to a temporarily removed, salvaged or relocated item.

M. Where the term "relocate" is used it means temporarily remove and reinstall in a new location.

N. Where the phrase "salvage in place" is used it means protect in place so as to prevent damage while adjacent elements are demolished, restore to best possible condition without repair or refinishing, and modify as necessary to properly incorporate and integrate with the Work.

1.04 SPECIFICATION FORMAT AND CONTENT

A. These Specifications are based on the Construction Specification Institute's 49 Division format and numbering system.

B. Language used in the Specifications and other Contract Documents is an abbreviated type. Implied words and meanings will appropriately interpreted.

C. Requirements expressed in imperative and streamlined language are to be performed by the Contractor. At certain locations in the text, subjective language may be used to describe responsibilities that must be fulfilled indirectly by the Contractor or others.
   1. Whenever a colon (:) is used within a sentence or phrase, it shall be construed to mean the words "shall be".

D. Use of certain terms such as "carpentry" is not intended to imply that certain activities must be performed by accredited or unionized individuals of a corresponding generic name. The Specifications do, however, require that certain construction activities shall be performed by specialists who are recognized experts in the operations to be performed. Specialists shall be used for said activities, however the final responsibility for fulfilling the requirements of the Contract remains the Contractor's.

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1.05 QUALITY ASSURANCE

A. For products or workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.

B. Conform to reference standard of date of issue specified in this section, except where a specific date is established by applicable code.

C. Obtain copies of standards when required by the Contract Documents.

D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.

E. Should specified reference standards conflict with Contract Documents, request clarification from the Architect/Engineer before proceeding.

F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of the Architect/Engineer shall be altered by the Contract Documents by mention or inference otherwise in any reference document.

1.06 APPLICABILITY OF INDUSTRY STANDARDS

A. Construction industry standards shall have the same force and effect as if bound or copied directly in the Contract Documents, except where more stringent requirements are specified. All such applicable standards are made a part of the Contract Documents by reference.
   1. Where compliance with two or more standards are referenced and conflicting requirements for quality or quantities occur, comply with the more stringent requirements. Refer questions regarding apparently conflicting standards to the Architect/Engineer for a decision before proceeding.
   2. The standard of quality or quantity levels specified, shown, or referenced shall be the minimum to be provided or performed. Refer questions regarding standards of minimum quality or quantity to the Architect/Engineer before proceeding.

1.07 CONSTRUCTION INDUSTRY ORGANIZATIONS AND DOCUMENTS

AABC -- ASSOCIATED AIR BALANCE COUNCIL

AAMA -- AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION

AISC -- AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.

ANSI -- AMERICAN NATIONAL STANDARDS INSTITUTE

ASHRAE -- AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC.

ASME -- THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

ASTM -- AMERICAN SOCIETY FOR TESTING AND MATERIALS

AWI -- ARCHITECTURAL WOODWORK INSTITUTE

BHMA -- BUILDERS HARDWARE MANUFACTURERS ASSOCIATION

BIA -- BRICK INDUSTRY ASSOCIATION

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CPSC -- CONSUMER PRODUCTS SAFETY COMMISSION

DHI -- DOOR AND HARDWARE INSTITUTE

ICC -- INTERNATIONAL CODE COUNCIL, INC.

IEEE -- INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS

ISO -- INTERNATIONAL STANDARDS ORGANIZATION

NCMA -- NATIONAL CONCRETE MASONRY ASSOCIATION

NEMA -- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

NFPA -- NATIONAL FIRE PROTECTION ASSOCIATION

NRCA -- NATIONAL ROOFING CONTRACTORS ASSOCIATION

SGCC -- SAFETY GLAZING CERTIFICATION COUNCIL

SMACNA -- SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC.

SSPC -- THE SOCIETY FOR PROTECTIVE COATINGS

UL -- UNDERWRITERS LABORATORIES INC.

1.08 UNITED STATES GOVERNMENT AND RELATED AGENCIES/DOCUMENTS

CFR -- CODE OF FEDERAL REGULATIONS

CPSC -- CONSUMER PRODUCTS SAFETY COMMISSION

EPA -- ENVIRONMENTAL PROTECTION AGENCY

FS -- FEDERAL SPECIFICATIONS AND STANDARDS (General Services Administration)

GSA -- U.S. GENERAL SERVICES ADMINISTRATION

USGS -- UNITED STATES GEOLOGICAL SURVEY

1.09 STATE GOVERNMENT AND RELATED AGENCIES/DOCUMENTS

CDB -- ILLINOIS CAPITAL DEVELOPMENT BOARD

IDOL -- ILLINOIS DEPARTMENT OF LABOR

IDPH -- ILLINOIS DEPARTMENT OF PUBLIC HEALTH

IEPA -- ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

OSFM -- OFFICE OF THE ILLINOIS STATE FIRE MARSHAL

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

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SECTION 01 50 00
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Temporary telecommunications services.

B. Temporary controls: Barriers and enclosures.

C. Security requirements.

D. Vehicular access and parking.

E. Waste removal facilities and services.

1.02 TELECOMMUNICATIONS SERVICES

A. Provide, maintain, and pay for telecommunications services to field office at time of project mobilization.

B. Telecommunications services shall include:
   1. One (1) mobile cellular telephone for each of Contractor's and any Subcontractor's field personnel.

1.03 BARRIERS

A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

B. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.04 INTERIOR ENCLOSURES

A. Provide temporary partitions and ceilings as indicated to separate work areas from Owner-occupied areas, to prevent penetration of dust and moisture into Owner-occupied areas, and to prevent damage to existing materials and equipment.

B. Construction: Framing and plywood sheet materials with closed joints and sealed edges at intersections with existing surfaces:

1.05 SECURITY

A. Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.

B. All on-site personnel of Contractor, Subcontractors and Suppliers must pass a background check, performed by the Owner or by an outside agency of the Owner's choosing.
   1. At least 7 days prior to a Contractor, Subcontractor or Supplier employee being present on the jobsite, provide Owner with employee's full name and date of birth, to allow the Owner to conduct a background check on the individual.

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1.06 VEHICULAR ACCESS AND PARKING

A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.

B. Coordinate access and haul routes with governing authorities and Owner.

C. Provide and maintain access to fire hydrants, free of obstructions.

D. Provide means of removing mud from vehicle wheels before entering streets.

E. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.

1.07 WASTE REMOVAL

A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.

B. Provide containers with lids. Remove trash from site periodically.

C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.

D. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

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SECTION 01 60 00
PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. General product requirements.

B. Transportation, handling, storage and protection.

C. Product option requirements.

D. Substitution limitations.

E. Procedures for Owner-supplied products.

F. Maintenance materials, including extra materials, spare parts, tools, and software.

1.02 RELATED REQUIREMENTS

A. Section 01 10 00 - Summary: Identification of Owner-supplied products.

B. Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions: Requirements for VOC-restricted product categories.

1.03 SUBMITTALS

A. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.

B. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

C. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
   1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

1.04 QUALITY ASSURANCE

A. Environmental Product Declaration (EPD): Publicly available, critically reviewed life cycle analysis having at least a cradle-to-gate scope.
   1. Good: Product-specific; compliant with ISO 14044.
   2. Better: Industry-wide, generic; compliant with ISO 21930, or with ISO 14044, ISO 14040, ISO 14025, and EN 15804; Type III third-party certification with external verification, in which the manufacturer is recognized as the program operator.
   3. Best: Commercial-product-specific; compliant with ISO 21930, or with ISO 14044, ISO 14040, ISO 14025, and EN 15804; Type III third-party certification with external verification, in which the manufacturer is recognized as the program operator.
   4. Where demonstration of impact reduction below industry average is required, submit both industry-wide and commercial-product-specific declarations; or submit at least 5 declarations for products of the same type by other manufacturers in the same industry.

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PART 2 PRODUCTS

2.01 NEW PRODUCTS

A. Provide new products unless specifically required or permitted by Contract Documents.

B. Designed, manufactured, and tested in accordance with industry standards.

C. Where other criteria are met, Contractor shall give preference to products that:
   1. If used on interior, have lower emissions, as defined in Section 01 61 16.
   2. If wet-applied, have lower VOC content, as defined in Section 01 61 16.
   3. Are extracted, harvested, and/or manufactured closer to the location of the project.
   4. Have longer documented life span under normal use.
   5. Result in less construction waste.
   6. Are made of recycled materials.
   7. Have a published Environmental Product Declaration (EPD).
   8. Have a published Health Product Declaration (HPD).
   9. Have a published Manufacturer's Inventory of Chemical Content.

2.02 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.

B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.

C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

2.03 MAINTENANCE MATERIALS

A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.

B. Deliver to Project site and place in location directed by Owner's representative; obtain Owner's signature on receipt for delivery prior to final payment. Submit signed receipts with Closeout Submittals.

PART 3 EXECUTION

3.01 SUBSTITUTION LIMITATIONS

A. Substitutions Prior To Bid Opening: Architect/Engineer will consider a written request for substitution provided that such request is received at least seven (7) days prior to the Bid opening date. Requests received after that time will not be considered.
   1. Only Substitution Requests from Bidders will be considered.
   2. If a request is approved, the Architect/Engineer will issue and appropriate addendum not less than three (3) days prior to the Bid opening date.

B. Document each request utilizing Substitution Request Form following this section with complete data substantiating compliance of proposed substitution with Contract Documents. Incomplete requests will not be considered. Submit a separate Substitution Request Form and accompanying documentation for each proposed substitution.

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C. Provide the following minimum documentation with each Substitution Request Form:
   1. Product identification, manufacturer, product data including dimensions and weight, performance and installation instructions.
   2. Side-by-side itemized comparison of proposed substitution with specified product.
   3. Coordination information including other modifications required as a result of proposed substitution.
   4. Cost information including the effect of the proposed substitution on the Contract Sum.

D. Sign and date the Substitution Request Form.

E. A request for substitution constitutes a representation that the submitter:
   1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
   2. Agrees to provide the same warranty for the substitution as for the specified product.
   3. Agrees to coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
   4. Waives claims for additional costs or time extension that may subsequently become apparent.
   5. Agrees to reimburse Owner and Architect/Engineer for review or redesign services associated with re-approval by authorities having jurisdiction over the Project.

F. Architect/Engineer will notify submitter in writing of decision to accept or reject request.

G. Substitutions of products or product characteristics/components/options/accessories will not be considered when they are indicated or implied on Contractor's submittals, without separate written request, or when acceptance will require revision to the Contract Documents, whether rejection of said substitutions is expressly identified by Architect/Engineer on Contractor's submittals or not.

3.02 OWNER-SUPPLIED PRODUCTS

A. See Section 01 10 00 - Summary for identification of Owner-supplied products.

B. Owner's Responsibilities:
   1. Arrange for and deliver Owner reviewed shop drawings, product data, and samples, to Contractor.
   2. Arrange and pay for product delivery to site.
   3. On delivery, inspect products jointly with Contractor.
   4. Submit claims for transportation damage and replace damaged, defective, or deficient items.
   5. Arrange for manufacturers' warranties, inspections, and service.

C. Contractor's Responsibilities:
   1. Review Owner reviewed shop drawings, product data, and samples.
   2. Receive and unload products at site; inspect for completeness or damage jointly with Owner.
   3. Handle, store, install and finish products.
   4. Repair or replace items damaged after receipt.
   5. Make final connections to Owner-provided equipment, and test equipment.

3.03 TRANSPORTATION AND HANDLING

A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.

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B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.

C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.

D. Transport and handle products in accordance with manufacturer's instructions.

E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.

F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.

G. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.

H. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.04 STORAGE AND PROTECTION

A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication. See

B. Store and protect products in accordance with manufacturers' instructions.

C. Store with seals and labels intact and legible.

D. Store sensitive products in weathertight, climate-controlled enclosures in an environment favorable to product.

E. For exterior storage of fabricated products, place on sloped supports above ground.

F. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.

G. Comply with manufacturer's warranty conditions, if any.

H. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.

I. Prevent contact with material that may cause corrosion, discoloration, or staining.

J. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.

K. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION

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SUBSTITUTION REQUEST FORM

PROJECT: KANE COUNTY SHERIFF – NEW ADMINISTRATION WING

SPECIFIED ITEM: _____

Specification Section	Page	Paragraph	Description
_____	_____	_____	_____

The undersigned requests consideration of the following:

PROPOSED SUBSTITUTION: _____

_____

Attached data includes project description, specifications, drawings, photographs, performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents which the proposed substitution will require for its proper installation.

The undersigned certifies that the following paragraphs, unless modified by attachments, are correct:

1. The proposed substitution does not affect dimensions shown on drawings.
2. The undersigned will pay for changes to the building design, including engineering design, detailing, and construction costs caused by the requested substitution.
3. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements.
4. Maintenance and service parts will be locally available for the proposed substitution.

The undersigned further states that the function, appearance, and quality of the proposed substitution are equivalent or superior to the specified item.

_____
Printed Name

_____
Signature Date

_____
Firm

_____
Telephone

_____
Email

Attachments (list):

For Use By The Architect/Engineer:

☐ Accepted ☐ Accepted As Noted

☐ Not Accepted ☐ Received Too Late

By: _____

Date: _____

Remarks:

Aurora Office
41 W. Benton Street
Aurora, Illinois 60506
630.406.1213

Chicago Office
222 S Riverside Plaza, Suite 1500
Chicago, Illinois 60606
312.667.5670

Bloomington Office
2401 E. Washington Street, Suite 200-B2
Bloomington, Illinois 61704
309.430.6460

SECTION 01 61 16
VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Requirements for VOC-Content-Restricted products.

B. Requirement for installer certification that they did not use any non-compliant products.

1.02 RELATED REQUIREMENTS

A. Section 01 60 00 - Product Requirements: Fundamental product requirements, substitutions and product options, delivery, storage, and handling.

1.03 DEFINITIONS

A. Indoor-Emissions-Restricted Products: All products in the following product categories, whether specified or not:

B. VOC-Content-Restricted Products: All products in the following product categories, whether specified or not:
   1. Interior paints and coatings applied on site.
   2. Interior adhesives and sealants applied on site, including flooring adhesives.
   3. Other products when specifically stated in the specifications.

C. Interior of Building: Anywhere inside the exterior weather barrier.

D. Adhesives: All gunnable, trowelable, liquid-applied, and aerosol adhesives, whether specified or not; including flooring adhesives, resilient base adhesives, and pipe jointing adhesives.

E. Sealants: All gunnable, trowelable, and liquid-applied joint sealants and sealant primers, whether specified or not; including firestopping sealants and duct joint sealers.

1.04 REFERENCE STANDARDS

A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency current edition.

B. ASTM D3960 - Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings 2005 (Reapproved 2018).

C. CARB (SCM) - Suggested Control Measure for Architectural Coatings; California Air Resources Board 2020.

D. GreenSeal GS-36 - Standard for Adhesives for Commercial Use 2013.

E. SCAQMD 1113 - Architectural Coatings 1977, with Amendment (2016).

F. SCAQMD 1168 - Adhesive and Sealant Applications 1989, with Amendment (2022).

1.05 SUBMITTALS

A. Product Data: For each VOC-restricted product used in the project, submit evidence of compliance.

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B. Sustainable Design Reporting: Submit evidence of compliance along with Accessory Material VOC Content Certification Form following this Section.

C. Installer Certifications Regarding Prohibited Content: Require each installer of any type of product (not just the products for which VOC restrictions are specified) to certify that either 1) no adhesives, joint sealants, paints, coatings, or composite wood or agrifiber products have been used in the installation of installer's products, or 2) that such products used comply with these requirements.

1.06 QUALITY ASSURANCE

A. VOC Content Test Method: 40 CFR 59, Subpart D (EPA Method 24), or ASTM D3960, unless otherwise indicated.
   1. Evidence of Compliance: Acceptable types of evidence are:
      a. Report of laboratory testing performed in accordance with requirements.
      b. Published product data showing compliance with requirements.
      c. Certification by manufacturer that product complies with requirements.

PART 2 PRODUCTS

2.01 MATERIALS

A. All Products: Comply with the most stringent of federal, State, and local requirements, or these specifications.

B. VOC-Content-Restricted Products: VOC content not greater than required by the following:
   1. Adhesives, Including Flooring Adhesives: SCAQMD 1168 Rule.
   2. Aerosol Adhesives: GreenSeal GS-36.
   3. Joint Sealants: SCAQMD 1168 Rule.
   4. Paints and Coatings: Each color; most stringent of the following:
      a. 40 CFR 59, Subpart D.
      b. SCAQMD 1113 Rule.
      c. CARB (SCM).

PART 3 EXECUTION

3.01 FIELD QUALITY CONTROL

A. Owner reserves the right to reject non-compliant products, whether installed or not, and require their removal and replacement with compliant products at no extra cost to Owner.

B. Additional costs to restore indoor air quality due to installation of non-compliant products will be borne by Contractor.

END OF SECTION

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SECTION 01 61 16.01
ACCESSORY MATERIAL VOC CONTENT CERTIFICATION FORM

1.01 PRODUCT CERTIFICATION

A. I certify that the installation work of my firm on this project:
   1. [HAS] [HAS NOT] required the use of any ADHESIVES.
   2. [HAS] [HAS NOT] required the use of any JOINT SEALANTS.
   3. [HAS] [HAS NOT] required the use of any PAINTS OR COATINGS.
   4. [HAS] [HAS NOT] required the use of any COMPOSITE WOOD or AGRIFIBER PRODUCTS.

B. Product data and MSDS sheets are attached.

2.01 CERTIFIED BY: (INSTALLER/MANUFACTURER/SUPPLIER FIRM)

A. Firm Name: _____

B. Print Name: _____

C. Signature: _____

D. Title: _____ (officer of company)

E. Date: _____

END OF SECTION

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SECTION 01 70 00
EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Examination, preparation, and general installation procedures.

B. Cutting and patching.

C. Cleaning and protection.

D. Starting of systems and equipment.

E. Demonstration and instruction of Owner personnel.

F. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.

G. General requirements for maintenance service.

1.02 RELATED REQUIREMENTS

A. Section 01 40 00 - Quality Requirements: Testing and inspection procedures.

B. Section 01 50 00 - Temporary Facilities and Controls: Temporary exterior enclosures.

C. Section 01 78 00 - Closeout Submittals: Project record documents, operation and maintenance data, warranties, and bonds.

D. Section 01 79 00 - Demonstration and Training: Demonstration of products and systems to be commissioned and where indicated in specific specification sections

1.03 SUBMITTALS

A. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
   1. Structural integrity of any element of Project.
   2. Efficiency, maintenance, or safety of any operational element.
   3. Visual qualities of sight exposed elements.
   4. Work of Owner or separate Contractor.

1.04 PROJECT CONDITIONS

A. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.

B. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere and over adjacent property.
   1. Provide dust-proof barriers between construction areas and areas continuing to be occupied by Owner.

C. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations.

D. Pest and Rodent Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.

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E. Rodent Control: Provide methods, means, and facilities to prevent rodents from accessing or invading premises.

F. Pollution Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations. Comply with federal, state, and local regulations.

1.05 COORDINATION

A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.

B. Notify affected utility companies and comply with their requirements.

C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.

D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.

F. Coordinate completion and clean-up of work of separate sections.

G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

A. New Materials: As specified in product sections; match existing products and work for patching and extending work.

B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 01 60 00 - Product Requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.

B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.

C. Examine and verify specific conditions described in individual specification sections.

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D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.

E. Verify that utility services are available, of the correct characteristics, and in the correct locations.

F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

A. Clean substrate surfaces prior to applying next material or substance.

B. Seal cracks or openings of substrate prior to applying next material or substance.

C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.03 GENERAL INSTALLATION REQUIREMENTS

A. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.

B. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.

C. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.

D. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.

E. Make neat transitions between different surfaces, maintaining texture and appearance.

3.04 CUTTING AND PATCHING

A. Whenever possible, execute the work by methods that avoid cutting or patching.

B. Perform whatever cutting and patching is necessary to:
   1. Complete the work.
   2. Fit products together to integrate with other work.
   3. Provide openings for penetration of mechanical, electrical, and other services.
   4. Match work that has been cut to adjacent work.
   5. Repair areas adjacent to cuts to required condition.
   6. Repair new work damaged by subsequent work.
   7. Remove samples of installed work for testing when requested.
   8. Remove and replace defective and non-complying work.

C. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.

D. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.

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E. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.

F. Restore work with new products in accordance with requirements of Contract Documents.

G. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.

H. Patching:
   1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
   2. Match color, texture, and appearance.
   3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

3.05 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.

C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.

D. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

3.06 PROTECTION OF INSTALLED WORK

A. Protect installed work from damage by construction operations.

B. Provide special protection where specified in individual specification sections.

C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.

D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.

E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.

F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.

G. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.

3.07 SYSTEM STARTUP

A. Coordinate schedule for start-up of various equipment and systems.

B. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.

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C. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.

D. Verify that wiring and support components for equipment are complete and tested.

E. Execute start-up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instructions.

F. Submit a written report that equipment or system has been properly installed and is functioning correctly.

3.08 DEMONSTRATION AND INSTRUCTION

A. See Section 01 79 00 - Demonstration and Training.

3.09 ADJUSTING

A. Adjust operating products and equipment to ensure smooth and unhindered operation.

3.10 FINAL CLEANING

A. Execute final cleaning prior to final project assessment.
   1. Clean areas to be occupied by Owner prior to final completion before Owner occupancy.

B. Use cleaning materials that are nonhazardous.

C. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.

D. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.

E. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.

F. Clean filters of operating equipment.

G. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

3.11 CLOSEOUT PROCEDURES

A. See Section 01 77 00 for additional requirements.

B. Make submittals that are required by governing or other authorities.

C. Accompany Project Coordinator on preliminary inspection to determine items to be listed for completion or correction in the Contractor's Correction Punch List for Contractor's Notice of Substantial Completion.

D. Notify Architect/Engineer when work is considered ready for Architect/Engineer's Substantial Completion inspection.

E. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect/Engineer's Substantial Completion inspection.

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F. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect/Engineer's and Contractor's comprehensive list of items identified to be completed or corrected and submit to Architect/Engineer.

G. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.

H. Notify Architect/Engineer when work is considered finally complete and ready for Architect/Engineer's Substantial Completion final inspection.

I. Complete items of work determined by Architect/Engineer listed in executed Certificate of Substantial Completion.

3.12 MAINTENANCE

A. Provide service and maintenance of components indicated in specification sections.

B. Maintenance Period: As indicated in specification sections or, if not indicated, not less than one year from the Date of Substantial Completion or the length of the specified warranty, whichever is longer.

C. Examine system components at a frequency consistent with reliable operation. Clean, adjust, and lubricate as required.

D. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by the manufacturer of the original component.

E. Maintenance service shall not be assigned or transferred to any agent or subcontractor without prior written consent of the Owner.

END OF SECTION

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SECTION 01 77 00
CLOSEOUT PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES:

A. Substantial Completion Procedures.

B. Final Completion Procedures.

1.02 RELATED REQUIREMENTS:

A. Section 01 10 00 - Summary.

B. Section 01 78 00 - Closeout Submittals.

1.03 SUBSTANTIAL COMPLETION PROCEDURES

A. Substantial Completion Procedures will be in accordance with the General Conditions of the Contract for Construction, Article 9.8 and include the following:
   1. When the Work or a portion of the Work is considered to be substantially complete, the Contractor inspects the project and prepares a comprehensive list of outstanding items to be completed or corrected, Initial Punch List.
   2. Contractor submits notice of Substantial Completion.
   3. Contractor completes items on the Initial Punch List.
   4. Architect/Engineer inspects the project to verify substantial completion and prepares a Final Punch List.
   5. Architect/Engineer prepares Certificate of Substantial Completion, acceptance is required by Owner and Contractor.

1.04 FINAL COMPLETION PROCEDURES

A. Final Completion Procedures will be in accordance with the General Conditions of the Contract for Construction, Article 9.10, and include the following:
   1. When items on Initial and Final Punch Lists are complete, submit notice of final completion and final application for payment.
   2. Submit Final Closeout Submittals as specified in Section 01 78 00.
   3. Architect will inspect project and verifies the Work is acceptable and conforms with the Contract Documents.
   4. Architect will process final application for payment and closeout submittals.

1.05 CORRECTION PERIOD

A. Correction Period commences on the date of Substantial Completion and expires two years from that date.

B. Owner: document non-conforming or defective work over course of Correction Period. Notify Contractor in writing of nonconforming or defective work. Copy Architect/Engineer.
   1. Life safety issues requiring immediate corrective work: Contact Contractor for action.

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PART 2 PRODUCTS - NOT USED.

PART 3 EXECUTION - NOT USED.

END OF SECTION

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SECTION 01 78 00
CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Warranties and bonds.

B. Project record documents.

C. Operation and maintenance data.

D. Format, arrangement and organization of Operation and Maintenance Manual electronic file.

1.02 RELATED REQUIREMENTS

A. Section 01 70 00 - Execution and Closeout Requirements: Contract closeout procedures.

B. Individual Product Sections: Specific requirements for operation and maintenance data.

1.03 SUBMITTALS

A. Submit preliminary draft of proposed formats and outlines of contents of electronic Operation and Maintenance Manual, including warranties and bonds, record documin Bookmarked Adobe PDF form before start of Work. Architect/Engineer will review draft and return with comments.

B. Warranties and Bonds:
   1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within 10 days after acceptance.
   2. Make other submittals within 10 days after Date of Substantial Completion, prior to final Application for Payment.
   3. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within 10 days after acceptance, listing the date of acceptance as the beginning of the warranty period.

C. Project Record Documents: Submit documents to Architect/Engineer with claim for final Application for Payment.

D. Operation and Maintenance Data:
   1. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit completed documents within ten days after acceptance.
   2. Submit completed documents 15 days prior to final inspection. This copy will be reviewed and returned after final inspection, with Architect/Engineer comments. Revise content as required prior to final submission.

E. Submit revised final Operation and Maintenance Manual, incorporating warranties and bonds, record documents and operation and maintenance data, in final form in Adobe PDF electronic file format on USB flash drive form within 10 days after final inspection.

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PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 WARRANTIES AND BONDS

A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.

B. Verify that documents are in proper form, contain full information, and are notarized.

C. Co-execute submittals when required.

D. Retain warranties and bonds until time specified for submittal.

E. Include originals of each in operation and maintenance manuals, indexed separately on Table of Contents.

F. Include color, 300 dpi resolution scans of each in Operation and Maintenance Manual PDF file, Bookmarked and indexed separately in Table of Contents.

3.02 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents; record actual revisions to the Work:
   1. Drawings.
   2. Specifications.
   3. Addenda.
   4. Change Orders and other modifications to the Contract.

B. Ensure entries are complete and accurate, enabling future reference by Owner.

C. Store record documents separate from documents used for construction.

D. Record information concurrent with construction progress.

E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
   1. Manufacturer's name and product model and number.
   2. Product substitutions or alternates utilized.
   3. Changes made by Addenda and modifications.

F. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
   1. Measured depths of foundations in relation to finish first floor datum.
   2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
   3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
   4. Field changes of dimension and detail.
   5. Details not on original Contract drawings.

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3.03 OPERATION AND MAINTENANCE DATA

A. Source Data: For each product or system, list names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.

B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.

C. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.

D. Typed Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.

3.04 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

A. For Each Product, Applied Material, and Finish:
   1. Product data, with catalog number, size, composition, and color and texture designations.
   2. Information for re-ordering custom manufactured products.

B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.

C. Moisture protection and weather-exposed products: Include product data listing applicable reference standards, chemical composition, and details of installation. Provide recommendations for inspections, maintenance, and repair.

D. Additional information as specified in individual product specification sections.

E. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

3.05 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

A. For Each Item of Equipment and Each System:
   1. Description of unit or system, and component parts.
   2. Identify function, normal operating characteristics, and limiting conditions.
   3. Include performance curves, with engineering data and tests.
   4. Complete nomenclature and model number of replaceable parts.

B. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

C. Panelboard Circuit Directories: Provide electrical service characteristics, controls, and communications; typed.

D. Include color coded wiring diagrams as installed.

E. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include

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summer, winter, and any special operating instructions.

F. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and trouble shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.

G. Provide servicing and lubrication schedule, and list of lubricants required.

H. Include manufacturer's printed operation and maintenance instructions.

I. Include sequence of operation by controls manufacturer.

J. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.

K. Provide control diagrams by controls manufacturer as installed.

L. Provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.

M. Provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.

N. Include test and balancing reports.

O. Additional Requirements: As specified in individual product specification sections.

3.06 ASSEMBLY OF OPERATION AND MAINTENANCE MANUAL

A. Assemble operation and maintenance data into a single electronic "manual" file in Adobe PDF file format for Owner's personnel use, with data arranged in the same sequence as, and bookmarked by, the specification sections.
   1. Media: USB flash drive of capacity sufficient to store entire PDF file, fragmented.
   2. Attach a tag or label flash drive with Project name, date, and the title "O&M Manual".

B. Organization and Arrangement of Contents: Arrange the contents of the "manual" file in using the following hierarchical system and create a corresponding hierarchy of Bookmarks in the file:
   1. Project Title Page.
   2. Project Directory.
   3. Table of Contents:
   4. Project Warranties.
      a. Division 01 - General
         1) General Contractor's Warranty.
         2) Record Drawings (marked-up version of A/E Drawings).
         3) Record Specifications (marked up version of A/E Specifications).
      b. Division 02
         1) [One Bookmark for each Specification section number and name where a warranty is required.]
         2) [Continue for each applicable Specification section.]
      c. [Continue for each applicable Division.]
   5. Record Documents.
      a. Record Drawings (marked-up version of A/E Drawings).
      b. Record Specifications (marked up version of A/E Specifications).

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c. [Continue for each Division.]
6. Operation and Maintenance Data.
   a. Division 06
      1) [One Bookmark for each Specification section number and name where a O&M data is required.]
      2) [Continue for each applicable Specification section.]
   b. [Continue for each applicable Division.]

C. Where systems involve more than one Specification Section, provide separate Bookmark and content for each Specification Section.

D. Prepare instructions and data by personnel experienced in maintenance and operation of described products.

E. Prepare data in the form of an instructional manual.

F. Cover Page: Populate the first page of the PDF file with: printed title "OPERATION AND MAINTENANCE MANUAL; identify title of Project; identify subject matter of contents.

G. Project Directory: Beginning on the second page of the PDF file, provide Title and address of Project. Provide, for Architect/Engineer, Consultants,Contractor, subcontractors and major suppliers: the business name, address, telephone number(s), email address(es), contact name(s) of responsible individual(s) knowledgeable about the Project, and a brief description of the responsibility or contribution of the business to the Project.

H. Table of Contents: List every item using the same identification as in the title of the Bookmark, in the sequence of the Table of Contents of the Project Manual, with each item identified with the number and title of the specification section in which specified, and the name of product or work item

I. Bookmarks: Hierarchically under each Specification Section, further Bookmark each separate product and system; identify the contents in the title of the Bookmark; on the Bookmarked page provide a description of product and major component parts of equipment.

J. Content: Manufacturer's printed data, legibly scanned, in color where applicable, at 300 dpi (minimum) resolution.

K. Drawings: Legibly scanned, in color where applicable, at 300 dpi (minimum) resolution; PDF file page size to match native sheet size of original drawing.

END OF SECTION

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SECTION 01 79 00
DEMONSTRATION AND TRAINING

PART 1 GENERAL

1.01 SUMMARY

A. Demonstration of products and systems where indicated in specific specification sections.

B. Training of Owner personnel in operation and maintenance is required for:
   1. All software-operated systems.
   2. HVAC systems and equipment.
   3. Electrical systems and equipment.
   4. Items specified in individual product Sections.

1.02 RELATED REQUIREMENTS

A. Section 01 78 00 - Closeout Submittals: Operation and maintenance manuals.

1.03 SUBMITTALS

A. Training Plan: Owner will designate personnel to be trained; tailor training to needs and skill-level of attendees.
   1. Submit to Architect/Engineer for transmittal to Owner.
   2. Submit not less than two weeks prior to start of training.
   3. Revise and resubmit until acceptable.
   4. Provide an overall schedule showing all training sessions.
   5. Include at least the following for each training session:
      a. Identification, date, time, and duration.
      b. Description of products and/or systems to be covered.
      c. Name of firm and person conducting training; include qualifications.
      d. Intended audience, such as job description.
      e. Objectives of training and suggested methods of ensuring adequate training.
      f. Methods to be used, such as classroom lecture, live demonstrations, hands-on, etc.
      g. Media to be used, such a slides, hand-outs, etc.
      h. Training equipment required, such as projector, projection screen, etc., to be provided by Contractor.

B. Training Manuals: Provide training manual for each attendee; allow for minimum of two attendees per training session.
   1. Include applicable portion of O&M manuals.
   2. Include copies of all hand-outs, slides, overheads, video presentations, etc., that are not included in O&M manuals.
   3. Provide one extra copy of each training manual to be included with operation and maintenance data.

C. Training Reports:
   1. Identification of each training session, date, time, and duration.
   2. Sign-in sheet showing names and job titles of attendees.
   3. List of attendee questions and written answers given, including copies of and references to supporting documentation required for clarification; include answers to questions that could not be answered in original training session.

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1.04 QUALITY ASSURANCE

A. Instructor Qualifications: Familiar with design, operation, maintenance and troubleshooting of the relevant products and systems.
   1. Provide as instructors the most qualified trainer of those contractors and/or installers who actually supplied and installed the systems and equipment.
   2. Where a single person is not familiar with all aspects, provide specialists with necessary qualifications.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 DEMONSTRATION - GENERAL

A. Demonstrations conducted during system start-up do not qualify as demonstrations for the purposes of this section, unless approved in advance by Owner.

B. Demonstration may be combined with Owner personnel training if applicable.

C. Operating Equipment and Systems: Demonstrate operation in all modes, including start-up, shut-down, seasonal changeover, emergency conditions, and troubleshooting, and maintenance procedures, including scheduled and preventive maintenance.
   1. Perform demonstrations not less than two weeks prior to Substantial Completion.
   2. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.

D. Non-Operating Products: Demonstrate cleaning, scheduled and preventive maintenance, and repair procedures.
   1. Perform demonstrations not less than two weeks prior to Substantial Completion.

3.02 TRAINING - GENERAL

A. Conduct training on-site unless otherwise indicated.

B. Owner will provide classroom and seating at no cost to Contractor.

C. Provide training in minimum two hour segments.

D. Training schedule will be subject to availability of Owner's personnel to be trained; re-schedule training sessions as required by Owner; once schedule has been approved by Owner failure to conduct sessions according to schedule will be cause for Owner to charge Contractor for personnel "show-up" time.

E. Review of Facility Policy on Operation and Maintenance Data: During training discuss:
   1. The location of the O&M manuals and procedures for use and preservation; backup copies.
   2. Typical contents and organization of all manuals, including explanatory information, system narratives, and product specific information.
   3. Typical uses of the O&M manuals.

F. Product- and System-Specific Training:
   1. Review the applicable O&M manuals.
   2. For systems, provide an overview of system operation, design parameters and constraints, and operational strategies.

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3. Review instructions for proper operation in all modes, including start-up, shut-down, seasonal changeover and emergency procedures, and for maintenance, including preventative maintenance.
4. Provide hands-on training on all operational modes possible and preventive maintenance.
5. Emphasize safe and proper operating requirements; discuss relevant health and safety issues and emergency procedures.
6. Discuss common troubleshooting problems and solutions.
7. Discuss any peculiarities of equipment installation or operation.
8. Discuss warranties and guarantees, including procedures necessary to avoid voiding coverage.
9. Review recommended tools and spare parts inventory suggestions of manufacturers.
10. Review spare parts and tools required to be furnished by Contractor.
11. Review spare parts suppliers and sources and procurement procedures.

G. Be prepared to answer questions raised by training attendees; if unable to answer during training session, provide written response within three days.

END OF SECTION

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SECTION 02 41 00
DEMOLITION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Selective demolition of building elements for alteration purposes.

1.02 RELATED REQUIREMENTS

A. Section 01 10 00 - Summary: Limitations on Contractor's use of site and premises.

B. Section 01 10 00 - Summary: Description of items to be salvaged or removed for re-use by Contractor.

C. Section 01 50 00 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.

D. Section 01 60 00 - Product Requirements: Handling and storage of items removed for salvage and relocation.

E. Section 01 70 00 - Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.

1.03 REFERENCE STANDARDS

A. 29 CFR 1926 - Safety and Health Regulations for Construction Current Edition.

B. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations 2022, with Errata (2021).

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Site Plan: Indicate:
   1. Areas for temporary construction and field offices.

C. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

1.05 QUALITY ASSURANCE

A. Demolition Firm Qualifications: Company specializing in the type of work required.
   1. Minimum of 3 years of documented experience.

PART 2 PRODUCTS -- NOT USED

PART 3 EXECUTION

3.01 DEMOLITION

A. Remove other items indicated, for salvage, relocation, and recycling.

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3.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

A. Comply with requirements in Section 01 70 00.

B. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
   1. Obtain required permits.
   2. Comply with applicable requirements of NFPA 241.
   3. Use of explosives is not permitted.
   4. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
   5. Provide, erect, and maintain temporary barriers and security devices.
   6. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
   7. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
   8. Do not close or obstruct roadways or sidewalks without permits from authority having jurisdiction.
   9. Conduct operations to minimize obstruction of public and private entrances and exits. Do not obstruct required exits at any time. Protect persons using entrances and exits from removal operations.

C. Do not begin removal until receipt of notification to proceed from Owner.

D. Do not begin removal until built elements to be salvaged or relocated have been removed.

E. Do not begin removal until vegetation to be relocated has been removed and vegetation to remain has been protected from damage.

F. Protect existing structures and other elements to remain in place and not removed.
   1. Provide bracing and shoring.
   2. Prevent movement or settlement of adjacent structures.
   3. Stop work immediately if adjacent structures appear to be in danger.

G. Minimize production of dust due to demolition operations. Do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.

H. Perform demolition in a manner that maximizes salvage and recycling of materials.
   1. Dismantle existing construction and separate materials.
   2. Set aside reusable, recyclable, and salvageable materials; store and deliver to collection point or point of reuse.

3.03 EXISTING UTILITIES

A. Coordinate work with utility companies. Notify utilities before starting work, comply with their requirements, and obtain required permits.

B. Protect existing utilities to remain from damage.

C. Do not disrupt public utilities without permit from authority having jurisdiction.

D. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Owner.

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E. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.

3.04 SELECTIVE DEMOLITION FOR ALTERATIONS

A. Existing construction and utilities indicated on drawings are based on casual field observation and existing record documents only.
   1. Verify construction and utility arrangements are as indicated.
   2. Report discrepancies to Architect/Engineer before disturbing existing installation.
   3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.

B. Locate and mark piping, ducts, duct banks and conduits within and beneath slabs on grade prior to performing sawcutting and removal of slabs on grade.

C. Separate areas in which demolition is being conducted from areas that remain occupied.
   1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 01 50 00 .

D. Maintain weatherproof exterior building enclosure, except for interruptions required for replacement or modifications; prevent water and humidity damage.

E. Remove existing work as indicated and required to accomplish new work.
   1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete; replace with new construction indicated.
   2. Remove items indicated on drawings.

F. Services including, but not limited to, HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications: Remove existing systems and equipment as indicated.
   1. Maintain existing active systems to remain in operation, and maintain access to equipment and operational components.
   2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
   3. Verify that abandoned services serve only abandoned facilities before removal.
   4. Remove abandoned pipe, ducts, conduits, and equipment, including those above accessible ceilings. Remove back to source of supply where possible, otherwise cap stub and tag with identification.

G. Protect existing work to remain.
   1. Prevent movement of structure. Provide shoring and bracing as required.
   2. Perform cutting to accomplish removal work neatly and as specified for cutting new work.
   3. Repair adjacent construction and finishes damaged during removal work.
   4. Patch to match new work.

3.05 DEBRIS AND WASTE REMOVAL

A. Remove debris, junk, and trash from site.

B. Leave site in clean condition, ready for subsequent work.

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C. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION

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SECTION 04 20 00
UNIT MASONRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Concrete block.

B. Mortar and grout.

C. Reinforcement and anchorage.

D. Flashings.

E. Masonry Lintels.

F. Installation of items furnished under other Sections for embedment in masonry.

G. Accessories.

1.02 RELATED REQUIREMENTS

A. Section 01 40 00 - Quality Requirements.

B. Section 05 50 00 - Metal Fabrications: Loose steel lintels, bearing plates and other miscellaneous metal items for embedment in masonry.

C. Section 07 21 00 - Thermal Insulation: Insulation for cavity spaces.

D. Section 07 92 00 - Joint Sealants: Sealing control and expansion joints.

1.03 REFERENCE STANDARDS

A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware 2016a.

B. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement 2022.

C. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire 2019.

D. ASTM A951/A951M - Standard Specification for Steel Wire for Masonry Joint Reinforcement 2022.

E. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete 2022.

F. ASTM C90 - Standard Specification for Loadbearing Concrete Masonry Units 2022.

G. ASTM C140/C140M - Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units 2022c.

H. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar 2018.

I. ASTM C150/C150M - Standard Specification for Portland Cement 2022.

J. ASTM C207 - Standard Specification for Hydrated Lime for Masonry Purposes 2018.

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K. ASTM C212 - Standard Specification for Structural Clay Facing Tile 2022.

L. ASTM C216 - Standard Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale) 2022.

M. ASTM C270 - Standard Specification for Mortar for Unit Masonry 2019a, with Editorial Revision.

N. ASTM C404 - Standard Specification for Aggregates for Masonry Grout 2018.

O. ASTM C476 - Standard Specification for Grout for Masonry 2023.

P. ASTM C979/C979M - Standard Specification for Pigments for Integrally Colored Concrete 2016.

Q. TMS 402/602 - Building Code Requirements and Specification for Masonry Structures 2022.

R. Standard Practice for Bracing Masonry Walls Under Construction - Mason Contractors Association of America.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by all relevant installers.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data for masonry units, fabricated wire reinforcement, mortar, and masonry accessories.

C. Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements.

1.06 QUALITY ASSURANCE

A. Comply with provisions of TMS 402/602, except where exceeded by requirements of Contract Documents.

B. Source Limitations For Masonry Units: Obtain masonry units of a uniform texture, color and blend (within the range acceptable for each characteristic) through one source from a single manufacturer for each product required.

C. Source Limitations For Mortar Materials: Obtain mortar components of a uniform quality from one manufacturer for each component and from one source or producer.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.

B. Deliver packaged materials in manufacturers' original containers, with labels and markings intact and legible.

PART 2 PRODUCTS

2.01 CONCRETE MASONRY UNITS

A. Concrete Block: Comply with referenced standards and as follows:

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1. Size: Standard units with nominal face dimensions of 16 by 6 inches and nominal depths as indicated on drawings for specific locations.
2. Special Shapes: Provide nonstandard blocks configured for corners.
   a. Exterior corners of intersecting walls: Bullnose.
3. All Units: ASTM C90, medium or lightweight, at contractor's discretion. Unit Compressive Strength: 2150 psi.
   a. Both hollow and solid block, as indicated.
   b. Exposed Faces: Manufacturer's standard color and texture where indicated.
   c. Manufacturers:
      1) The Concrete Products Group; Spec-Brik: www.concreteproductsgroup.com/#sle.
      2) Substitutions: See Section 01 60 00 - Product Requirements.

2.02 MORTAR AND GROUT MATERIALS

A. Portland Cement: ASTM C150/C150M, Type I; color as required to produce approved color sample.
   1. Hydrated Lime: ASTM C207, Type S.
   2. Mortar Aggregate: ASTM C144.
   3. Grout Aggregate: ASTM C404.

B. Pigments for Colored Mortar: Pure, concentrated mineral pigments specifically intended for mixing into mortar and complying with ASTM C979/C979M.
   1. Color(s): As selected by Architect/Engineer from manufacturer's full range.
   2. Manufacturers:

C. Water: Clean and potable.

D. Admixtures:
   1. Air-entraining admixtures or cementitious materials containing air-entraining admixtures are not permitted in mortar.
   2. Anti-freeze compounds or other substances used to lower the freezing point of mortar or grout are not permitted.
   3. Admixtures containing calcium chloride are not permitted.

E. Accelerating Admixture: Nonchloride type for use in cold weather.

F. Moisture-Resistant Admixture: Water repellent compound designed to reduce capillarity.

2.03 REINFORCEMENT AND ANCHORAGE

A. Manufacturers:
   1. Blok-Lok Limited: www.blok-lok.com.
   2. Hohmann & Barnard, Inc: www.h-b.com/#sle.
   3. WIRE-BONDwww.wirebond.com/#sle.

B. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi), deformed billet bars; uncoated.

C. Single Wythe Joint Reinforcement: ASTM A951/A951M.
   1. Type: Truss.
   2. Material: ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M Class 3.
   3. Size: 0.1483 inch side rods with 0.1483 inch cross rods; width as required to provide not less than 5/8 inch of mortar coverage on each exposure.

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D. Cavity Wall Joint Reinforcement: ASTM A951/A951M.
   1. Type: Ladder, with adjustable ties or tabs spaced at 16 in on center.
   2. Material: ASTM A1064/A1064M steel wire, hot dip galvanized after fabrication to ASTM A153/A153M Class B.
   3. Size: 0.1875 inch side rods with 0.1483 inch cross rods and adjustable components of 0.1875 inchwire, width of components as required to provide not less than 5/8 inch of mortar coverage from each masonry face.

E. Strap Anchors: Bent steel shapes, 1-1/2 inch width, 0.105 inch thick, 24 inch length, with 1-1/2 inch long, 90 degree bend at each end to form a U or Z shape or with cross pins, hot dip galvanized to ASTM A153/A153M Class B.

F. Flexible Anchors: 2-piece anchors that permit differential movement between masonry and building frame, sized to provide not less than 5/8 inch of mortar coverage from masonry face.
   1. Steel frame: Crimped wire anchors for welding to frame, 0.25 inch thick, with trapezoidal wire ties 0.1875 inch thick, hot dip galvanized to ASTM A 153/A 153M, Class B.

G. Residential Wall Ties: Corrugated formed sheet metal, 7/8 inch wide by 0.05 inch thick, hot dip galvanized to ASTM A 153/A 153M, Class B, sized to extend at least 1-1/2 inches into the veneer with at least 5/8 inch of mortar coverage from masonry face.

H. Two-Piece Wall Ties: Formed steel wire, 0.1875 inch thick, adjustable, eye and pintle type, hot dip galvanized to ASTM A 153/A 153M, Class B, sized to provide not less than 5/8 inch of mortar coverage from masonry face and to allow vertical adjustment of up to 1-1/4 in.

I. Dovetail Anchor Slot and Ties: Slot: 22 gage, 1 inch x 1 inch x 5/8 inch, mill galvanized. Tie: 12 gage clip wire tie, mill galvanized.

J. Masonry Veneer Anchors: 2-piece anchors that permit differential movement between masonry veneer and structural backup, hot dip galvanized to ASTM A 153/A 153M, Class B.
   1. Anchor plates: Not less than 0.075 inch thick, designed for fastening to structural backup through sheathing by two fasteners; provide design with legs that penetrate sheathing and insulation to provide positive anchorage.
   2. Wire ties: Manufacturer's standard shape, 0.1875 inch thick.
   3. Vertical adjustment: Not less than 3-1/2 inches.

2.04 ACCESSORIES

A. Preformed Control Joints: Rubber material conforming to ASTM D2000; 2-5/8 inches wide. Provide with corner and tee accessories, fused joints.
   1. Manufacturers:
      a. Hohmann & Barnard, Inc (including Blok-Lok and Dur-O-Wal brands); Product #RS-Standard or #DA2001: www.h-b.com.
      b. WIRE-BOND; Product #2901: www.wirebond.com.
      c. Heckmann Building Products, Inc.; #352-10: www.heckmannbuildingprods.com.

B. Joint Filler: Closed cell neoprene; oversized 50 percent to joint width; self expanding; with pressure-sensitive adhesive on one side; 3 inch wide x by maximum lengths available.
   1. Manufacturers:
      a. Hohmann & Barnard, Inc (including Blok-Lok and Dur -O-Wal brands); Product #NSTA or Rapid Expansion Joint DA2015: www.h-b.com.

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b. WIRE-BOND; Product #3300 Expansion Joint : www.wirebond.com.

C. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.

2.05 MORTAR AND GROUT MIXING

A. Mortar for Unit Masonry: ASTM C270, using the Proportion Specification.
   1. Masonry below grade and in contact with earth: Type M.
   2. Exterior, loadbearing masonry: Type N.
   3. Exterior, non-loadbearing masonry: Type N.
   4. Interior, loadbearing masonry: Type N.
   5. Interior, non-loadbearing masonry: Type N.

B. Colored Mortar: Proportion selected pigments and other ingredients to match Architect/Engineer's sample, without exceeding manufacturer's recommended pigment-to-cement ratio.

C. Grout: ASTM C 476. Consistency required to fill completely volumes indicated for grouting; fine grout for spaces with smallest horizontal dimension of 2 inches or less; coarse grout for spaces with smallest horizontal dimension greater than 2 inches. Grout strength to be 2500 psi at 28 days.

D. Mixing: Use mechanical batch mixer and comply with referenced standards.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive masonry.

B. Verify that related items provided under other sections are properly sized and located.

C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

3.02 PREPARATION

A. Direct and coordinate placement of metal anchors supplied for installation under other sections.

B. Temporary Bracing: Provide temporary support and bracing as required for stability, safety and proper performance of masonry during installation of masonry work. Maintain in place until connections and structural elements providing permanent bracing are fully erected and installed and have achieved full strength.

C. Protection: Cover tops of completed and partially completed walls, projections and sills with waterproof sheeting at the end of each day's work, and maintain protection even when masonry work is not in progress. Extend sheeting minimum 48 inches down both sides of walls and hold sheeting securely in place.

D. Prevent grout, mortar and soil from staining the face of masonry to be left exposed to view, whether scheduled to be painted or not. Immediately remove grout, mortar and soil that come in contact with such masonry.

3.03 COLD AND HOT WEATHER REQUIREMENTS

A. Comply with requirements of TMS 402/602 or applicable building code, whichever is more stringent.

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3.04 COURSING

A. Establish lines, levels, and coursing indicated. Protect from displacement.

B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.

C. Concrete Masonry Units:
   1. Bond: Running.
   2. Coursing: One unit and one mortar joint to equal 8 inches.
   3. Mortar Joints: Concave; provide other joint types where indicated on the Drawings.

3.05 PLACING AND BONDING

A. Combine concrete masonry units and mortar to achieve a net masonry prism strength (f'm) of 1500 psi.

B. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.

C. Lay hollow masonry units with face shell bedding on head and bed joints.

D. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.

E. Remove excess mortar, mortar droppings and mortar smears as work progresses.

F. Remove excess mortar with water repellent admixture promptly. Do not use acids, sandblasting or high pressure cleaning methods.

G. Interlock intersections and external corners.

H. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.

I. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.

J. Cut mortar joints flush where wall tile is scheduled or resilient base is scheduled.

K. Isolate masonry partitions from vertical structural framing members with a control joint.

L. Isolate top joint of masonry partitions from horizontal structural framing members and slabs or decks with compressible joint filler.

M. Build cavity and multi-wythe walls to full thickness shown (adjust cavity space).

N. Build and verify dimensions for chases and pockets for built-in items according to trade contractor and equipment requirements. Notify Architect of any discrepancies between requirements and drawings.

3.06 REINFORCEMENT AND ANCHORAGE - GENERAL AND SINGLE WYTHE MASONRY

A. Unless otherwise indicated on drawings or specified under specific wall type, install horizontal joint reinforcement 16 inches on center.

B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches each side of opening.

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C. Place continuous joint reinforcement in first and second joint below top of walls.

D. Lap joint reinforcement ends minimum 6 inches.

E. Fasten anchors to structural framing and embed in masonry joints as masonry is laid. Unless otherwise indicated on drawings or closer spacing is indicated under specific wall type, space anchors at maximum of 24 inches horizontally and 16 inches vertically.

3.07 LINTELS

A. Install loose steel lintels over openings scheduled on the Drawings.

B. Provide reinforced precast or formed-in-place unit masonry lintels over openings more than 12 inches wide where steel or precast concrete lintels are not scheduled. Use "U" shaped masonry units
   1. Openings to 42 inches: Place two, No. 4 reinforcing bars 1 inch from bottom web.
   2. Openings from 42 inches to 78 inches: Place two, No. 5 reinforcing bars 1 inch from bottom web.
   3. Openings over 78 inches: Reinforce openings as detailed.
   4. Do not splice reinforcing bars.
   5. Support and secure reinforcing bars from displacement. Maintain position within 1/2 inch of dimensioned position.
   6. Place and consolidate grout fill without displacing reinforcing.
   7. Allow masonry lintels to attain specified strength before handling and installation of precast lintels and before removing temporary supports from formed-in-place lintels.

3.08 GROUTED COMPONENTS

A. Reinforce bond beams with 2, No. 4 bars, 1 inch from bottom web u.n.o.

B. Lap splices to be as noted on the drawings.

C. Support and secure reinforcing bars from displacement. Maintain position within 1/2 inch of dimensioned position.

D. Place and consolidate grout fill without displacing reinforcing.

E. At bearing locations, fill masonry cores with grout for a minimum 12 inches either side of opening.

3.09 CONTROL AND EXPANSION JOINTS

A. Do not continue horizontal joint reinforcement through control or expansion joints.

B. Run continuous horizontal bond beam reinforcing through control joints unless noted otherwise on drawings.

C. Install preformed control joint device in continuous lengths. Seal butt and corner joints in accordance with manufacturer's instructions.

D. Size control joint in accordance with Section 07 92 00 for sealant performance.

E. Form expansion joint as detailed on drawings.

F. Provide control and expansion joints as indicated on the drawings and at the following locations:
   1. Changes in wall height.

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2. Changes in wall thickness.
3. Changes in material types.
4. Changes in environmental exposure.
5. Above movement joints in foundations and floors.
6. Below movement joints in roofs and floors.
7. Near one or both sides of door and window openings.
8. At offsets and setbacks.
9. At a maximum horizontal spacing of 25 feet.

3.10 BUILT-IN WORK

A. As work progresses, install built-in metal door frames, glazed frames, anchor bolts, and plates and other items to be built into the work and furnished under other sections.

B. Install built-in items plumb, level, and true to line.

C. Bed anchors of metal door and glazed frames in adjacent mortar joints. Fill frame voids solid with grout.
   1. Fill adjacent masonry cores with grout minimum 12 inches from framed openings.

D. Do not build into masonry construction organic materials that are subject to deterioration.

E. Coordinate with trade contractors for elements and openings in walls (plumbing, electrical, ductwork, etc.).

3.11 TOLERANCES

A. Maximum Variation from Alignment of Columns: 1/4 inch.

B. Maximum Variation From Unit to Adjacent Unit: 1/32 inch.

C. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft and 1/2 inch in 20 ft or more.

D. Maximum Variation from Plumb: 1/4 inch per story non-cumulative; 1/2 inch in two stories or more.

E. Maximum Variation from Level Coursing: 1/8 inch in 3 ft and 1/4 inch in 10 ft; 1/2 inch in 30 ft.

F. Maximum Variation of Mortar Joint Thickness: Head joint, minus 1/4 inch, plus 3/8 inch.

G. Maximum Variation from Cross Sectional Thickness of Walls: 1/4 inch.

3.12 CUTTING AND FITTING

A. Cut and fit for pipes, ducts, sleeves, ducts, and ducts. Coordinate with other sections of work to provide correct size, shape, and location.

B. Obtain Architect/Engineer approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

3.13 FIELD QUALITY CONTROL

A. An independent testing agency will perform field quality control tests, as specified in Section 01 40 00 - Quality Requirements.

B. Provide free access to masonry operations at project site and cooperate with the appointed firm.

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3.14 CLEANING

A. Remove excess mortar, mortar smears and mortar droppings.

B. Replace defective mortar. Match adjacent work.

C. Clean soiled surfaces with cleaning solution.

D. Use non-metallic tools in cleaning operations.

3.15 SEALER APPLICATION FOR GROUND FACE MASONRY

A. Preparation:
   1. Protect surrounding surfaces from product spray, splash and residue.
   2. Verify surfaces to be treated are clean, dry and free of contaminants.
   3. Verify that joint sealants are complete in place and fully cured.

B. Application:
   1. Test ground face masonry surfaces in inconspicuous locations for suitability and desired results.
   2. Apply specified sealer to ground face concrete masonry units in accordance with manufacturer's instructions and at manufacturer's recommended rates.

3.16 PROTECTION

A. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

B. Cover tops of completed walls, projections and sills with waterproof sheeting until execution of subsequent portions of the Work provides weather protection for these elements. Extend sheeting minimum 48 inches down both sides and hold sheeting securely in place.

C. Provide temporary support and bracing as required for stability, safety and proper performance of erected masonry work until connections and structural elements providing permanent bracing are fully erected and installed and have achieved full strength.

D. Prevent soil and materials from other trades from staining the face of masonry to be left exposed to view, whether scheduled to be painted or not. Immediately remove soil and other foreign materials that come in contact with such masonry.

END OF SECTION

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SECTION 05 50 00
METAL FABRICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Shop fabricated steel items, including: lintels.

1.02 RELATED REQUIREMENTS

A. Section 04 20 00 - Unit Masonry: Placement of metal fabrications in masonry.

B. Section 09 91 23 - Interior Painting: Paint finish.

1.03 REFERENCE STANDARDS

A. ANSI A14.3 - American National Standard for Ladders -- Fixed -- Safety Requirements 2008 (Reaffirmed 2018).

B. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength 2021.

C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2022.

D. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination 2020.

E. AWS D1.1/D1.1M - Structural Welding Code - Steel 2020, with Errata (2022).

F. IAS AC172 - Accreditation Criteria for Fabricator Inspection Programs for Structural Steel AC172 2019.

G. SSPC-Paint 15 - Steel Joist Shop Primer/Metal Building Primer 2004.

H. SSPC-Paint 20 - Zinc-Rich Coating (Type I - Inorganic, and Type II - Organic) 2019.

I. SSPC-SP 2 - Hand Tool Cleaning 2018.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.
   1. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.

C. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.
   1. Anchoring epoxy and expansion/wedge anchors.

D. Fabricator's Qualification Statement: Provide documentation showing steel fabricator is accredited under IAS AC172.

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1.05 QUALITY ASSURANCE

A. Fabricator: Company holding the contract for the work of this Section must be a fabricator, not a broker, and must self-perform all the work of this Section.

PART 2 PRODUCTS

2.01 FABRICATION

A. Continuously seal joined members by continuous welds.

B. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of component, except where specifically noted otherwise.

2.02 FABRICATED ITEMS

A. Lintels: As indicated on drawings. prime paint.

2.03 FABRICATION TOLERANCES

A. Squareness: 1/8 inch maximum difference in diagonal measurements.

B. Maximum Offset Between Faces: 1/16 inch.

C. Maximum Misalignment of Adjacent Members: 1/16 inch.

D. Maximum Bow: 1/8 inch in 48 inches.

E. Maximum Deviation From Plane: 1/16 inch in 48 inches.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive work.

3.02 PREPARATION

A. Clean and strip primed steel items to bare metal where site welding is required.

B. Furnish setting templates to the appropriate entities for steel items required to be cast into concrete or embedded in masonry.

3.03 INSTALLATION

A. Install items plumb and level, accurately fitted, free from distortion or defects.

B. Provide for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.

C. Field weld components where required on drawings.

D. Field weld components and shear studs indicated on drawings and shop drawings.

E. Perform field welding in accordance with AWS D1.1/D1.1M.

F. Obtain approval prior to site cutting or making adjustments not scheduled.

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G. After erection, prime welds, abrasions and surfaces not shop primed or galvanized , except surfaces to be in contact with concrete.

3.04 TOLERANCES

A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.

B. Maximum Offset From True Alignment: 1/4 inch.

C. Maximum Out-of-Position: 1/4 inch.

3.05 SCHEDULE

A. Interior Locations (Non-Corrosive Environments)Finish
   1. Lintels Primed
   2. Miscellaneous angles, plates, clips and shims Primed

END OF SECTION

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SECTION 06 10 00
ROUGH CARPENTRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Roof-mounted curbs.

B. Preservative treated wood materials.

C. Communications and electrical room mounting boards.

D. Concealed wood blocking, nailers, and supports.

1.02 RELATED REQUIREMENTS

A. Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions.

B. Section 09 21 16 - Gypsum Board Assemblies: Gypsum-based sheathing.

1.03 REFERENCE STANDARDS

A. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware 2016a.

B. ASTM D2898 - Standard Practice for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing 2010 (Reapproved 2017).

C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2023.

D. AWPA U1 - Use Category System: User Specification for Treated Wood 2022.

E. PS 20 - American Softwood Lumber Standard 2021.

F. WWPA G-5 - Western Lumber Grading Rules 2021.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

1.05 DELIVERY, STORAGE, AND HANDLING

A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

B. Fire Retardant Treated Wood: Prevent exposure to precipitation during shipping, storage, and installation.

1.06 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
   1. Species: Douglas Fir-Larch, unless otherwise indicated.

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2. If no species is specified, provide species graded by the agency specified; if no grading agency is specified, provide lumber graded by grading agency meeting the specified requirements.
3. Grading Agency: Grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee at www.alsc.org, and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.
4. Lumber of other species or grades is acceptable provided structural and appearance characteristics are equivalent to or better than products specified.

B. Provide sustainably harvested wood; see Section 01 60 00 - Product Requirements for requirements.

2.02 DIMENSION LUMBER FOR CONCEALED APPLICATIONS

A. Grading Agency: Western Wood Products Association; WWPA G-5.

B. Sizes: Nominal sizes as indicated on drawings, S4S.

C. Moisture Content: S-dry or MC19.

D. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
1. Lumber: S4S, No. 2 or Standard Grade.
2. Boards: Standard or No. 3.

2.03 ACCESSORIES

A. Fasteners and Anchors:
1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.

2.04 FACTORY WOOD TREATMENT

A. Treated Lumber and Plywood: Comply with requirements of AWPA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.
2. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWPA standards.

B. Fire Retardant Treatment:
1. Exterior Type: AWPA U1, Category UCFB, Commodity Specification H, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes both before and after accelerated weathering test performed in accordance with ASTM D2898.
   a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.
   b. Do not use treated wood in direct contact with the ground.
2. Interior Type A: AWPA U1, Use Category UCFA, Commodity Specification H, low temperature (low hygroscopic) type, chemically treated and pressure impregnated; capable of providing a

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maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes.
   a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.
   b. Treat rough carpentry items as scheduled.
   c. Do not use treated wood in applications exposed to weather or where the wood may become wet.

C. Preservative Pressure Treatment of Lumber Above Grade: AWPA U1, Use Category UC3B, Commodity Specification A using waterborne preservative.
   1. Kiln dry lumber after treatment to maximum moisture content of 15 percent.
   2. Treat lumber in contact with flashing or waterproofing.
   3. Treat lumber in contact with masonry or concrete.
   4. Treat lumber less than 18 inches above grade.
   5. Preservative Pressure Treatment of Plywood Above Grade: AWPA U1, Use Category UC2 and UC3B, Commodity Specification F using waterborne preservative.
      a. Kiln dry plywood after treatment to maximum moisture content of 15 percent.
      b. Treat plywood in contact with roofing, flashing, or waterproofing.
      c. Treat plywood in contact with masonry or concrete.
      d. Treat plywood less than 18 inches above grade.

D. Restrictions: Do not use lumber or plywood treated with chromated copper arsenate (CCA) in exposed exterior applications subject to leaching.

PART 3 EXECUTION

3.01 PREPARATION

A. Coordinate installation of rough carpentry members specified in other sections.

3.02 INSTALLATION - GENERAL

A. Select material sizes to minimize waste.

B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.

C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

3.03 BLOCKING, NAILERS, AND SUPPORTS

A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.

B. In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is explicitly indicated.

C. Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is explicitly indicated.

D. Provide the following specific nonstructural framing and blocking:
   1. Cabinets and shelf supports.

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2. Wall brackets.
3. Handrails.
4. Grab bars.
5. Toilet accessories.
6. Wall-mounted door stops.
7. Marker and tack boards.
8. Joints of rigid wall coverings that occur between studs.

3.04 ROOF-RELATED CARPENTRY

A. Coordinate installation of roofing carpentry with deck construction, framing of roof openings, and roofing assembly installation.

B. Provide wood curb at each roof opening except where specifically indicated otherwise; form corners by alternating lapping side members.

3.05 SITE APPLIED WOOD TREATMENT

A. Apply preservative treatment compatible with factory applied treatment at site-sawn cuts, complying with manufacturer's instructions.

B. Allow preservative to dry prior to erecting members.

3.06 TOLERANCES

A. Variation from Plane, Other than Floors: 1/4 inch in 10 feet maximum, and 1/4 inch in 30 feet maximum.

3.07 CLEANING

A. Waste Disposal:
   1. Comply with applicable regulations.
   2. Do not burn scrap on project site.
   3. Do not burn scraps that have been pressure treated.
   4. Do not send materials treated with pentachlorophenol, CCA, or ACA to co-generation facilities or “waste-to-energy” facilities.

B. Do not leave wood, shavings, sawdust, etc. on the ground or buried in fill.

C. Prevent sawdust and wood shavings from entering the storm drainage system.

3.08 SCHEDULE

A. Blocking in Walls: Untreated.

B. Communications and Electrical Room Mounting Boards: Fire-retardant treated.

END OF SECTION

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SECTION 06 41 00
CUSTOM CASEWORK

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Specially fabricated cabinet units.

B. Hardware.

C. Preparation for installing utilities.

1.02 RELATED REQUIREMENTS

A. Section 08 80 00 - Glazing: Glass for casework.

B. Section 12 36 00 - Countertops.

1.03 REFERENCE STANDARDS

A. ANSI A208.1 - American National Standard for Particleboard 2022.

B. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications 2022.

C. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition 2014, with Errata (2016).

D. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards 2021, with Errata.

E. NEMA LD 3 - High-Pressure Decorative Laminates 2005.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting not less than one week before starting work of this section; require attendance by all affected installers.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Shop Drawings: Indicate materials, component profiles and elevations, assembly methods, fastening methods, jointing details, and accessories, hardware locations and schedule of finishes.
   1. Scale of Drawings: 1-1/2 inch to 1 foot, minimum.
   2. Provide information as required by AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS).

C. Product Data: Provide data for hardware accessories.

D. Samples: Submit actual sample items of proposed pulls, hinges, shelf standards, and locksets, demonstrating hardware design, quality, and finish.

E. Fabricator's Qualifications Statement.

1.06 QUALITY ASSURANCE

A. Fabricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of documented experience.
   1. Company with at least one project in the past 5 years with value of woodwork within 20 percent of cost of woodwork for this Project.

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1.07 DELIVERY, STORAGE, AND HANDLING

A. Reject and return to fabricator units that are missing hardware components.

B. Protect units from moisture damage.

1.08 FIELD CONDITIONS

A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy.

PART 2 PRODUCTS

2.01 CABINETS

A. Quality Standard: Custom Grade, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

B. Premanufactured Alternative: Subject to compliance with all requirements of this Section, Premanufactured Wood Casework is acceptable for casework components.

C. Cabinets:
   1. Finish - Exposed Exterior Surfaces: Decorative laminate.
   2. Finish - Exposed Interior Surfaces: Decorative laminate.
   3. Finish - Semi-Exposed Surfaces: Decorative laminate
   4. Finish - Concealed Surfaces: Manufacturer's option.
   5. Door and Drawer Front Edge Profiles: Radius edge with thick applied band.
   6. Door and Drawer Front Retention Profiles: Removable stop.
   7. Casework Construction Type: Type A - Frameless.
   8. Interface Style for Cabinet and Door: Style 1 - Overlay; flush overlay.
   9. Grained Face Layout for Cabinet and Door Fronts: Flush panel.
      a. Premium Grade:
         1) Provide vertical run and match for doors, drawer fronts and false fronts within each cabinet unit.
         2) Provide well-matched doors, drawer fronts and false fronts across multiple cabinet faces in one elevation.
         3) Cathedral Grain: Point grain crown up and run in the same direction for entire project.
   10. Cabinet Design Series: As indicated on drawings.
   11. Adjustable Shelf Loading: 40 psf.
      a. Deflection: L/144.
   12. Casework Integrity: Comply with Acceptance Level requirements of AWI/AWMAC/WI (AWS) Appendix A for the following tests.
      a. Structural Integrity Test - Base Cabinet.
      b. Concentrated Load Test - Base Cabinet.
      c. Torsion Test - Base Cabinet.
      d. Structural Integrity Test - Wall Cabinet.
      e. Door Durability Test.
      f. Door Impact Test.
      g. Door Hinge Test.
      h. Drawer Bottom Impact Test.
      i. Drawer Support Test.

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j. Drawer and Door Pull Test.
k. Drawer Rolling Load Test.
l. Shelf Load Test.

13. Drawer Side Construction: Doweled, Dowel Screwed, Biscuit Splined or Lock Jointed and Nailed.

2.02 WOOD-BASED COMPONENTS

A. Wood fabricated from old growth timber is not permitted.

2.03 PANEL MATERIALS

A. Particleboard: ANSI A208.1; Grade M-3 medium density or any Grade high density industrial type as specified in AWI/AWMAC/WI (AWS), composed of wood chips bonded with interior grade adhesive under heat and pressure; sanded faces; thickness as specified under AWI/AWMAC/WI (AWS) Section 10.4.7 for each component type; use for components indicated on drawings.
   1. Density: 40 lb/cu ft (minimum for low end of range).
   2. Screw Holding:
      a. Face: 225 lb (minimum).
      b. Edge: 202 lb (minimum).

B. Medium Density Fiberboard (MDF): ANSI A208.2; type as specified in AWI/AWMAC/WI (AWS); composed of cellulosic fibers pressure bonded with moisture resistant adhesive to suit application; sanded faces; thicknesses as specified under AWI/AWMAC/WI (AWS) Section 10.4.7 for each component type.
   1. Use for cabinet and countertop components, including cabinet backs (1/2" min.) and drawer bottoms (1/2" min.), unless another material is indicated on drawings.
   2. Use as core for decorative laminate-faced panels unless otherwise indicated.

2.04 LAMINATE MATERIALS

A. Manufacturers:
   1. Formica Corporation: www.formica.com.
   2. Lamin-Art, Inc.: www.laminart.com.
   3. Panolam Industries International, Inc: www.panolam.com/#sle.
   4. Wilsonart LLC: www.wilsonart.com.

B. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended for specific applications.

C. Provide specific types as indicated.
   1. Horizontal Surfaces: HGS, 0.048 inch nominal thickness, through color, color as selected, finish as indicated.
   2. Vertical Surfaces: VGS, 0.028 inch nominal thickness, through color, color as selected, finish as indicated.
   3. Cabinet Liner: CLS, 0.020 inch nominal thickness, through color, finish as indicated.
   4. Laminate Backer: BKL, nominal thickness to match that of opposing face sheet, undecorated; for application to concealed backside of panels faced with high pressure decorative laminate.

2.05 COUNTERTOPS

A. Countertops: See Section 12 36 00.

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2.06 ACCESSORIES

A. Adhesive: Type recommended by fabricator to suit application.

B. Plastic Edgebanding: Extruded 3mm PVC or ABS, flat shaped; smooth finish; bonded to edge of component; of width to match component thickness. Provide "flexible" PVC material for curved component edges.
   1. Manufacturers:
      a. Charter Industries: www.charterindustries.com.
      b. EdgeCo, Inc.: www.edgecoinc.com.
      c. Frama-Tech, Inc.: www.framatech.net.
      d. Teknaform: www.teknaform.com.
   2. Color: As shown on drawings.
   3. Use at exposed edges of shelves, cabinet doors, and cabinet drawers.

C. Fasteners: Size and type to suit application.

D. Bolts, Nuts, Washers, Lags, Pins, and Screws: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations.

E. Concealed Joint Fasteners: Threaded steel.

2.07 HARDWARE

A. Adjustable Shelf Supports: Standard side-mounted system using recessed metal shelf standards or multiple holes for pin supports and coordinated self rests, polished chrome finish, for nominal 1 inch spacing adjustments.
   1. Manufacturer: Knape & Vogt Manufacturing Company: www.kv.com.
   2. Standards: #255 ZC zinc coated steel pilaster strips.
   3. Support Clips for Standards: #239 ZC zinc-plated steel.
   4. Pin Supports for drilled holes: #333 ZC zinc-plated steel.
   5. Use for adjustable shelving within cabinet assemblies.
   6. Other acceptable manufacturers:
      a. John Sterling Company: www.johnsterling.com.

B. Adjustable Shelf Supports: Standard back-mounted system using surface mounted metal shelf standards and coordinated cantilevered shelf brackets, for nominal 1 inch spacing adjustments.
   1. Heavy Duty Standards and Brackets:
      a. Product: #85 standards and #185 brackets manufactured by Knape & Vogt Manufacturing Company: www.kv.com.
      b. Finish: Electroplated, Anachrome.
      c. Use for wall-attached adjustable shelving

C. Shelf Support Brackets: Fixed, L-shaped, corner reinforced, face-of-stud mounting.
   1. Materials: Formed steel shapes.
      a. Finish: Manufacturer's standard, factory-applied, textured powder coat.
   2. Materials: Formed stainless steel shapes with brushed finish.
   3. Materials: Formed aluminum shapes.
   4. Height: 5 inches.
   5. Support Length: 12 inches.

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D. Shelf and Rod Supports: Standard back-mounted system using surface mounted metal shelf brackets, white finish, for nominal 1 inch spacing adjustments.
   1. Product: #1195 WH Heavy Duty Shelf and Rod Support manufactured by Knape & Vogt Manufacturing Company: www.kv.com.
   2. Product: #RP-0045-WT manufactured by John Sterling Corporation: www.johnsterling.com.
   3. Product: #858-WH manufactured by EPCO Sales, LLC: www.epcohardware.com.
   4. Closet Rods: 1-5/16" o.d. chromed steel tubing. Provide support flanges at each end.
   5. Use for closet shelves and rods.

E. Drawer and Door Pulls: "U" shaped 10 mm dia. steel wire pull, with nickel plated matte finish, 96 mm centers. Provide two (2) pulls for drawers greater then 24 inches wide.
   1. Product: 116.09.617 or 116.09.617.AL manufactured by Hafele America Co.: www.hafele.com.

F. Drawer Slides:
   1. Type: Full extension.
   2. Static Load Capacity: Commercial grade; 100 pounds, minimum.
   3. Mounting: Side mounted.
   4. Stops: Positive type.
   5. Features: Provide self closing/stay closed type, with lever disconnect and vertical drawer adjustment.
   6. Manufacturers:
      a. Accuride International, Inc: www.accuride.com.
      b. Grass America Inc: www.grassusa.com.
      c. Knape & Vogt Manufacturing Company: www.knapeandvogt.com.
      d. Substitutions: See Section 01 60 00 - Product Requirements.

G. Door Hinges: European style concealed self-closing type, steel with satin finish, allowing 3-dimensional adjustment. Provide complete with black plastic cover caps, and manufacturer's recommended mounting plates with dowel inserts and fasteners.
   1. Manufacturers:
      a. Blum, Inc; CLIP top 170° Press-in #71T6580: www.blum.com.
      b. Hardware Resources; 170 Degree Basic Clip On with Dowels #248.0M73.05: www.hardwareresources.com.
      c. Substitutions: Not permitted.

2.08 FABRICATION

A. Assembly: Shop assemble cabinets for delivery to site in units easily handled and to permit passage through building openings.

B. Edging: Fit shelves, doors, and exposed edges with specified edging. Do not use more than one piece for any single length.

C. Fitting: When necessary to cut and fit on site, provide materials with ample allowance for cutting. Provide matching trim for scribing and site cutting.

D. Plastic Laminate: Apply plastic laminate finish in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with concealed fasteners. Slightly bevel arises.
   1. Apply laminate backing sheet to reverse side of plastic laminate finished surfaces.

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2. Cap exposed plastic laminate finish edges with plastic trim.

E. Provide cutouts for fixtures and fittings. Verify locations of cutouts from on-site dimensions. Prime paint cut edges.

F. Shop glaze glass materials using Interior Dry method; see Section 08 80 00.

G. Hardware: Install hardware components in fabricator's shop. Carpenter installation of cabinet hardware components in field is not permitted.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify adequacy of backing and support framing.

B. Verify location and sizes of utility rough-in associated with work of this section.

3.02 INSTALLATION

A. Install work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS) requirements for grade indicated.

B. Set and secure custom cabinets in place, assuring that they are rigid, plumb, and level.

C. Use fixture attachments in concealed locations for wall mounted components.

D. Use concealed joint fasteners to align and secure adjoining cabinet units.

E. Carefully scribe casework abutting other components, with maximum gaps of 1/32 inch. Do not use additional overlay trim for this purpose.

F. Secure cabinets to floor using appropriate angles and anchorages.

3.03 ADJUSTING

A. Test installed work for rigidity and ability to support loads.

B. Adjust moving or operating parts to function smoothly and correctly. Clean sawdust from drawer slides. Re-grease slides after removing sawdust.

C. Repair damaged and defective casework to eliminate defects functionally and visually. Where not possible to repair properly, replace casework.

3.04 CLEANING

A. Clean casework, counters, shelves, hardware, fittings, and fixtures.

B. Remove sawdust, leftover materials and other debris from within cabinets and drawers.

END OF SECTION

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SECTION 07 21 00
THERMAL INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Board insulation at interior face of existing exterior wall.

1.02 REFERENCE STANDARDS

A. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation 2022.

B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2023.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on product characteristics, performance criteria, and product limitations.

C. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

D. Manufacturer's Installation Instructions: Include information on special environmental conditions required for installation and installation techniques.

1.04 FIELD CONDITIONS

A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

PART 2 PRODUCTS

2.01 APPLICATIONS

A. Insulation Inside Existing Exterior Wall: Extruded polystyrene (XPS) board.

2.02 FOAM BOARD INSULATION MATERIALS

A. Extruded Polystyrene (XPS) Continuous Insulation (CI) Board: Comply with ASTM C578.
   1. Type and Compressive Resistance: Type IV, 25 psi (173 kPa), minimum.
   2. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
   3. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
   4. Type and Thermal Resistance, R-value: Type IV, 5.6 (0.98), minimum, per 1 inch thickness at 75 degrees F mean temperature.
   5. Board Size: 48 inch by 96 inch.
   6. Board Thickness: 2 inch.
   7. Board Edges: Shiplap, at long edges.
   8. Products:
      a. DuPont de Nemours, Inc; Styrofoam Brand Ultra SL (Shiplap): building.dupont.com.
      b. Owens Corning Corporation; Rigid Foam Insulation: www.ocbuildingspec.com..
      c. Substitutions: See Section 01 60 00 - Product Requirements.

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2.03 ACCESSORIES

A. Insulation Fasteners: Impaling clip of unfinished steel with washer retainer and clips, to be adhered to surface to receive insulation, length to suit insulation thickness and substrate, capable of securely and rigidly fastening insulation in place.

B. Nails or Staples: Steel wire; electroplated or galvanized; type and size to suit application.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation.

B. Verify substrate surfaces are flat, free of irregularities.

3.02 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements for additional requirements.

3.03 PROTECTION

A. Do not permit installed insulation to be damaged prior to its concealment.

END OF SECTION

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SECTION 07 91 00
PREFORMED JOINT SEALS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Precompressed foam seals.

1.02 RELATED REQUIREMENTS

1.03 REFERENCE STANDARDS

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Manufacturer's technical data sheets for each product, including chemical composition, movement capability, color availability, limitations on application, and installation instructions.

C. Color Cards: For color selection.

D. Samples for Color Selection: 4 inch long pieces of each color available; at least 2 samples of each color.

E. Manufacturer's Qualification Statement.

F. Installer's Qualification Statement.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified in this section with at least three years of documented experience.

1.06 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Correct defective work within a two year period after Date of Substantial Completion.

C. Warranty: Include coverage for installed sealers that fail to achieve watertight seal or exhibit loss of adhesion or cohesion.

PART 2 PRODUCTS

2.01 PRECOMPRESSED FOAM SEALS

A. Precompressed Foam Seal: Comprised of urethane, modified-acrylic impregnated, open-cell polyurethane, or closed-cell neoprene foam impregnated with water-repellent, and with self-adhesive faces protected prior to installation by release paper.
   1. Color: To match existing storefront.
   2. Size as required to provide acoustical seal when installed.
   3. Measure size of existing joints before selecting seal width.

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4. Applications:
   a. End of partition wall to window (SHG).
5. Products:
   a. EMSEAL Joint Systems, Ltd; QuietJoint: www.emseal.com/#sle.
   b. Substitutions: Not permitted.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that joints are ready to receive this work.

B. Measure joint dimensions and verify that seal products are of the correct size to properly seal the joints.

3.02 PREPARATION

A. Properly prepare construction components adjacent to the work of this section to prevent damage and disfigurement due to this work.

3.03 INSTALLATION

A. Install in accordance with manufacturer's written instructions.

B. Precompressed Foam Seals:
   1. Install only when ambient temperature is within recommended application temperature range of adhesive. Consult manufacturer when installing outside this temperature range.
   2. Prepare joints and install seals in accordance with manufacturer's written recommendations.
   3. Remove loose materials and foreign matter that could impair adhesion of sealant.
   4. Do not stretch precompressed seal; avoid joints except at corners, ends, and intersections; install with face 1/8 to 1/4 inch below adjoining surface.

3.04 CLEANING

A. Clean adjacent soiled surfaces.

3.05 PROTECTION

A. Protect joints from damage until adhesives have properly cured.

END OF SECTION

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SECTION 07 92 00
JOINT SEALANTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Self-leveling pourable joint sealants.

B. Joint backings and accessories.

1.02 RELATED REQUIREMENTS

A. Section 09 21 16 - Gypsum Board Assemblies: Sealing acoustical and sound-rated walls and ceilings.

B. Section 09 30 00 - Tiling: Sealant between tile and plumbing fixtures and at junctions with other materials and changes in plane.

1.03 REFERENCE STANDARDS

A. ASTM C794 - Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants 2018 (Reapproved 2022).

B. ASTM C919 - Standard Practice for Use of Sealants in Acoustical Applications 2022.

C. ASTM C1087 - Standard Test Method for Determining Compatibility of Liquid-Applied Sealants with Accessories Used in Structural Glazing Systems 2016.

D. ASTM C1193 - Standard Guide for Use of Joint Sealants 2016.

E. SCAQMD 1168 - Adhesive and Sealant Applications 1989, with Amendment (2022).

F. SWRI (VAL) - SWR Institute Validated Products Directory Current Edition.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Submit manufacturer's technical datasheets for each product to be used; include the following:
   1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
   2. List of backing materials approved for use with the specific product.
   3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
   4. Substrates the product should not be used on.
   5. Substrates for which use of primer is required.
   6. Substrates for which laboratory adhesion and/or compatibility testing is required.
   7. Installation instructions, including precautions, limitations, and recommended backing materials and tools.
   8. Sample product warranty.
   9. Certification by manufacturer indicating that product complies with specification requirements.
   10. SWRI Validation: Provide currently available sealant product validations as listed by SWRI (VAL) for specified sealants.

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C. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.

D. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.

E. Samples for Verification: Where custom sealant color is specified, obtain directions from Architect/Engineer and submit at least two physical samples for verification of color of each required sealant.

F. Preconstruction Laboratory Test Reports: Submit at least four weeks prior to start of installation.

G. Executed warranty.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

B. Installer Qualifications: Company specializing in performing the work of this section and with at least three years of documented experience.

C. Preconstruction Laboratory Testing: Arrange for sealant manufacturer(s) to test each combination of sealant, substrate, backing, and accessories.
   1. Adhesion Testing: In accordance with ASTM C794.
   2. Compatibility Testing: In accordance with ASTM C1087.
   3. Allow sufficient time for testing to avoid delaying the work.
   4. Deliver sufficient samples to manufacturer for testing.
   5. Report manufacturer's recommended corrective measures, if any, including primers or techniques not indicated in product data submittals.

1.06 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Manufacturer Warranty: Provide 2-year manufacturer warranty for installed sealants and accessories that fail to achieve a watertight seal, exhibit loss of adhesion or cohesion, or do not cure. Complete forms in Owner's name and register with manufacturer.

C. Extended Correction Period: Correct defective work within 2-year period commencing on Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Nonsag Sealants:
   1. Dow Corning Corporation: www.dowcorning.com/construction.
   2. Hilti, Inc: www.us.hilti.com.
   3. Master Builders Solutions by BASF: www.master-builders-solutions.basf.us/en-us.
   4. Momentive Performance Materials, Inc (formerly GE Silicones): www.momentive.com.
   5. Pecora Corporation: www.pecora.com.
   6. Sika Corporation: www.usa-sika.com.
   7. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com.

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8. W.R. Meadows, Inc: www.wrmeadows.com.
9. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 JOINT SEALANT APPLICATIONS

A. Scope:
   1. Interior Joints: Do not seal interior joints unless specifically indicated to be sealed. Interior joints to be sealed include, but are not limited to, the following items.
      a. Joints between door, window, and other frames and adjacent construction.
      b. In sound-rated wall and ceiling assemblies, gaps at electrical outlets, wiring devices, piping, and other openings; between wall/ceiling and other construction; and other flanking sound paths.
      c. Joints between countertop back and side splashes and adjacent wall construction.
      d. Joints between window sills and adjacent window and wall construction.
      e. Joints between plumbing fixtures and adjacent construction.
      f. Other joints indicated below.

B. Interior Joints: Use non-sag acrylic-urethane sealant, unless otherwise indicated.
   1. Wall and Ceiling Joints in Wet Areas: Non-sag polyurethane sealant for continuous liquid immersion.
   2. Floor Joints in Wet Areas: Non-sag polyurethane "non-traffic-grade" sealant suitable for continuous liquid immersion.
   3. Joints between Fixtures in Wet Areas and Floors, Walls, and Ceilings: Mildew-resistant silicone sealant; clear.
   4. Other Floor Joints: Self-leveling polyurethane "traffic-grade" sealant.

C. Interior Wet Areas: restrooms, kitchens, and food service areas; fixtures in wet areas include plumbing fixtures, food service equipment, countertops, cabinets, and other similar items.

D. Sound-Rated Assemblies: Walls and ceilings identified as STC-rated, sound-rated, or acoustical.

2.03 JOINT SEALANTS - GENERAL

A. Sealants and Primers: Provide products having lower volatile organic compound (VOC) content than indicated in SCAQMD 1168.

2.04 ACCESSORIES

A. Backer Rod: Cylindrical cellular foam rod with surface that sealant will not adhere to, compatible with specific sealant used, and recommended by backing and sealant manufacturers for specific application.

B. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.

C. Joint Cleaner: Noncorrosive and nonstaining type, type recommended by sealant manufacturer; compatible with joint forming materials.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that joints are ready to receive work.

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B. Verify that backing materials are compatible with sealants.

C. Verify that backer rods are of the correct size.

3.02 PREPARATION

A. Remove loose materials and foreign matter that could impair adhesion of sealant.

B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.

C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.

D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.

3.03 INSTALLATION

A. Install this work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.

B. Provide joint sealant installations complying with ASTM C1193.

C. Install acoustical sealant application work in accordance with ASTM C919.

D. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated.

E. Install bond breaker backing tape where backer rod cannot be used.

F. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.

G. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.

H. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

END OF SECTION

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SECTION 08 11 13
HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Non-fire-rated hollow metal doors and frames.

B. Hollow metal frames for wood doors.

C. Bullet-resistant hollow metal doors and frames.

1.02 RELATED REQUIREMENTS

A. Section 08 71 00 - Door Hardware.

B. Section 08 80 00 - Glazing: Glass for doors and borrowed lites.

1.03 REFERENCE STANDARDS

A. ADA Standards - 2010 ADA Standards for Accessible Design 2010.

B. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames and Frame Anchors 2022.

C. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames 2020.

D. ANSI/SDI A250.8 - Specifications for Standard Steel Doors and Frames (SDI-100) 2017.

E. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames 2020.

F. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2022.

G. ASTM A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable 2021a.

H. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength 2018a.

I. ASTM C143/C143M - Standard Test Method for Slump of Hydraulic-Cement Concrete 2020.

J. ASTM C476 - Standard Specification for Grout for Masonry 2023.

K. BHMA A156.115 - Hardware Preparation in Steel Doors and Steel Frames 2016.

L. ICC A117.1 - Accessible and Usable Buildings and Facilities 2017.

M. NAAMM HMMA 830 - Hardware Selection for Hollow Metal Doors and Frames 2002.

N. NAAMM HMMA 831 - Hardware Locations for Hollow Metal Doors and Frames 2011.

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O. NAAMM HMMA 840 - Guide Specifications For Receipt, Storage and Installation of Hollow Metal Doors and Frames 2017.

P. NAAMM HMMA 861 - Guide Specifications for Commercial Hollow Metal Doors and Frames 2014.

Q. NAAMM HMMA 862 - Guide Specifications for Forced Entry/Bullet Resistant (FE/BR) Security Hollow Metal Doors and Frames 2021.

R. SDI 117 - Manufacturing Tolerances for Standard Steel Doors and Frames 2023.

S. UL 752 - Standard for Bullet-Resisting Equipment Current Edition, Including All Revisions.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Materials and details of design and construction, hardware locations, reinforcement type and locations, anchorage and fastening methods, and finishes; and one copy of referenced standards/guidelines.

C. Shop Drawings: Details of each opening, showing elevations, glazing, frame profiles, and any indicated finish requirements.

D. Installation Instructions: Manufacturer's published instructions, including any special installation instructions relating to this project.

E. Manufacturer's Certificate: Certification that products meet or exceed specified requirements.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years documented experience.

B. Manufacturer Qualifications: Provide hollow metal doors and frames from SDI Certified manufacturer: https://steeldoor.org/sdi-certified/#sle.

C. Maintain at project site copies of reference standards relating to installation of products specified.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Comply with NAAMM HMMA 840 or ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.

B. Protect with resilient packaging; avoid humidity build-up under coverings; prevent corrosion and adverse effects on factory applied painted finish.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Hollow Metal Doors and Frames:
   1. Ceco Door, an Assa Abloy Group company: www.assaabloydss.com.
   2. Curries, an Assa Abloy Group company: www.assaabloydss.com.
   3. Republic Doors, an Allegion brand: www.republicdoor.com.
   4. Steelcraft, an Allegion brand: www.allegion.com.

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B. Bullet-Resistant, Commercial Security, and Detention Security Hollow Metal Doors and Frames:
   1. Fleming Door Products, an Assa Abloy Group company: www.assaabloydss.com/#sle.
   2. Mesker, dormakaba Group; BR Series Bullet-Resistant Doors and Frames: www.meskeropeningsgroup.com/#sle.
   3. Republic Doors, an Allegion brand: www.republicdoor.com/#sle.
   4. Security Metal Products Corporation, an Assa Abloy Group company: www.assaabloydss.com/#sle.
   5. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS

A. Requirements for Hollow Metal Doors and Frames:
   1. Steel Sheet: Comply with one or more of the following requirements; galvannealed steel complying with ASTM A653/A653M, cold-rolled steel complying with ASTM A1008/A1008M, or hot-rolled pickled and oiled (HRPO) steel complying with ASTM A1011/A1011M, commercial steel (CS) Type B, for each.
   2. Accessibility: Comply with ICC A117.1 and ADA Standards.
   3. Door Edge Profile: Manufacturers standard for application indicated.
   4. Glazed Lights: Non-removable stops on non-secure side; sizes and configurations as indicated on drawings. Style: Manufacturer's standard.
   5. Hardware Preparations, Selections and Locations: Comply with NAAMM HMMA 830 and NAAMM HMMA 831 or BHMA A156.115 and ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.
   6. Zinc Coating for Typical Interior and/or Exterior Locations: Provide metal components zinc-coated (galvanized) and/or zinc-iron alloy-coated (galvannealed) by the hot-dip process in accordance with ASTM A653/A653M, with manufacturer's standard coating thickness, unless noted otherwise for specific hollow metal doors and frames.
      a. Based on SDI Standards: Provide at least A40/ZF120 (galvannealed) when necessary, coating not required for typical interior door applications, and at least A60/ZF180 (galvannealed) for corrosive locations.

B. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.

2.03 HOLLOW METAL DOORS

A. Interior Doors, Non-Fire-Rated:
   1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
      a. Level 3 - Extra Heavy-duty.
      b. Physical Performance Level A, 1,000,000 cycles; in accordance with ANSI/SDI A250.4.
      c. Model 1 - Full Flush; Seamless for corrosive locations.
      d. Door Face Metal Thickness: 16 gauge, 0.053 inch, minimum.
      e. Zinc Coating: A60/ZF180 galvannealed coating; ASTM A653/A653M for corrosive locations.
   2. Door Thickness: 1-3/4 inches, nominal.

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3. Door Face Sheets: Flush.
4. Door Finish: Factory primed and field finished.

B. Bullet-Resistant Doors; Interior:
1. Based on SDI Standards: ANSI/SDI A250.8 (SDI-100).
a. Level 1 - Standard-duty.
b. Physical Performance Level C, 250,000 cycles; in accordance with ANSI/SDI A250.4.
c. Model 1 - Full Flush.
d. Door Face Metal Thickness: 20 gauge, 0.032 inch, minimum.
2. Bullet Resistance: UL 752, Threat Level Rating - Level 4.
3. Door Core Material: Manufacturers standard core material/construction in compliance with requirements.
4. Door Thickness: As required to meet requirements indicated.
5. Hinge Rail and Reinforcement: Non-beveled edge, reinforced with continuous steel channel, 12 gauge, 0.093 inch minimum metal thickness, welded at 5 inch on center maximum, and compatible with 4-1/2 inch full mortise template and continuous geared hinges.

2.04 HOLLOW METAL FRAMES

A. Comply with standards and/or custom guidelines as indicated for corresponding door in accordance with applicable door frame requirements.

B. Interior Door Frames, Non-Fire Rated: Face welded type; non-welded joints filled for seamless appearance.
1. Frame Metal Thickness: 16 gauge, 0.053 inch, minimum.
2. Frame Finish: Factory primed and field finished.

C. Bullet-Resistant Door Frames: Comply with UL 752, with same level of bullet resistance as door; face welded construction, ground smooth, fully prepared and reinforced for hardware installation.
1. Frame Metal Thickness: 16 gauge, 0.053 inch, minimum.
2. Frame Finish: Factory primed and field finished.

D. Provide mortar guard boxes for hardware cut-outs in frames to be installed in masonry or to be grouted.

E. Frames in Masonry Walls: Size to suit masonry coursing with head member 4 inches high to fill opening without cutting masonry units.

F. Frames Wider than 48 inches: Reinforce with steel channel fitted tightly into frame head, flush with top.

2.05 FINISHES

A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.

B. Bituminous Coating: Cold-applied asphalt mastic, compounded for 15 mil, 0.015 inch dry film thickness (DFT) per coat; provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.

2.06 ACCESSORIES

A. Grout for Frames: Mortar grout complying with ASTM C476 with maximum slump of 4 inches as measured in accordance with ASTM C143/C143M for hand troweling in place; plaster grout and

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thinner pumpable grout are prohibited.

B. Silencers: Resilient rubber, fitted into drilled hole; provide three on strike side of single door, three on center mullion of pairs, and two on head of pairs without center mullions.

C. Temporary Frame Spreaders: Provide for factory- or shop-assembled frames.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that opening sizes and tolerances are acceptable.

C. Verify that finished walls are in plane to ensure proper door alignment.

3.02 PREPARATION

A. Coat inside of frames to be installed in masonry or to be grouted, with bituminous coating, prior to installation.

3.03 INSTALLATION

A. Install doors and frames in accordance with manufacturer's instructions and related requirements of specified door and frame standards or custom guidelines indicated.

B. Coordinate frame anchor placement with wall construction.

C. Grout frames in masonry construction, using hand trowel methods; brace frames so that pressure of grout before setting will not deform frames.

D. Install door hardware as specified in Section 08 71 00.
   1. Comply with recommended practice for hardware placement of doors and frames in accordance with ANSI/SDI A250.6 or NAAMM HMMA 861.

E. Coordinate installation of electrical connections to electrical hardware items.

F. Touch up damaged factory finishes.

3.04 TOLERANCES

A. Clearances Between Door and Frame: Comply with related requirements of specified frame standards or custom guidelines indicated in accordance with SDI 117 or NAAMM HMMA 861.

B. Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner.

3.05 ADJUSTING

A. Adjust for smooth and balanced door movement.

3.06 SCHEDULE

A. Refer to Door and Frame Schedule on the Drawings.

END OF SECTION

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SECTION 08 14 16
FLUSH WOOD DOORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Flush wood doors; flush configuration; non-rated.

1.02 RELATED REQUIREMENTS

A. Section 08 11 13 - Hollow Metal Doors and Frames.

B. Section 08 71 00 - Door Hardware.

C. Section 08 80 00 - Glazing.

1.03 REFERENCE STANDARDS

A. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards, 2nd Edition 2014, with Errata (2016).

B. AWMAC/WI (NAAWS) - North American Architectural Woodwork Standards 2021, with Errata.

C. ICC (IBC) - International Building Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

D. NEMA LD 3 - High-Pressure Decorative Laminates 2005.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Indicate door core materials and construction; veneer species, type and characteristics.

C. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercuts, beveling, blocking for hardware, factory machining, factory finishing, cutouts for glazing and other details.

D. Samples: Submit two samples of door veneer, 9 by 12 inches in size illustrating wood grain, stain color, and sheen.

E. Manufacturer's Installation Instructions: Indicate special installation instructions.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section, with not less than ten years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified in this section, with not less than three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Package, deliver and store doors in accordance with specified quality standard.

B. Accept doors on site in manufacturer's packaging, and inspect for damage.

C. Protect doors with resilient packaging sealed with heat shrunk plastic; do not store in damp or wet areas or areas where sunlight might bleach veneer; seal top and bottom edges with tinted sealer if

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stored more than one week, and break seal on site to permit ventilation.

1.07 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Wood Veneer Faced Doors:
   1. Graham Wood Doors: www.grahamdoors.com.
   2. Oshkosh Door Company: www.oshkoshdoor.com.
   3. VT Industries, Inc: www.vtindustries.com.
   4. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 DOORS

A. Doors: See drawings for locations and additional requirements.
   1. Quality Standard: Custom Grade, Heavy Duty performance, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.

B. Interior Doors: 1-3/4 inches thick unless otherwise indicated; flush construction.
   1. Provide solid core doors at each location.
   2. Fire Rated Doors: Tested to ratings indicated on drawings in accordance with ICC (IBC) - Positive Pressure; Underwriters Laboratories Inc. (UL) or Intertek/Warnock Hersey (WHI) labeled without any visible seals when door is open.

2.03 DOOR AND PANEL CORES

A. Non-Rated Solid Core and 20 Minute Rated Doors: Type particleboard core (PC), plies and faces as indicated.

2.04 DOOR FACINGS

A. High Pressure Decorative Laminate (HPDL) Facing for Non-Fire-Rated Doors: NEMA LD 3, HGS; color(s) as indicated; textured, low gloss finish.

2.05 DOOR CONSTRUCTION

A. Fabricate doors in accordance with door quality standard specified.

B. Cores Constructed with stiles and rails:

C. Provide solid blocks at lock edge for hardware reinforcement.
   1. Provide solid blocking for other throughbolted hardware.

D. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.

E. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.

F. Provide edge clearances in accordance with the quality standard specified.

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2.06 FINISHES - WOOD VENEER DOORS

A. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:
   1. Transparent:
      a. System - 2, Lacquer, Precatalyzed.
      b. Stain: As selected by Architect/Engineer.
      c. Sheen: Satin.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that opening sizes and tolerances are acceptable.

C. Do not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment.

3.02 INSTALLATION

A. Install doors in accordance with manufacturer's instructions and specified quality standard.

B. Factory-Finished Doors: Do not field cut or trim; if fit or clearance is not correct, replace door.

C. Use machine tools to cut or drill for hardware.

D. Coordinate installation of doors with installation of frames and hardware.

E. Coordinate installation of glazing.

3.03 TOLERANCES

A. Comply with specified quality standard for fit and clearance tolerances.

B. Comply with specified quality standard for telegraphing, warp, and squareness.

3.04 ADJUSTING

A. Adjust doors for smooth and balanced door movement.

B. Adjust closers for full closure.

3.05 SCHEDULE

A. See Door and Frame Schedule on the Drawings.

END OF SECTION

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SECTION 08 43 13
ALUMINUM-FRAMED STOREFRONTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Aluminum-framed storefront, with vision glass.

B. Door hardware.

1.02 RELATED REQUIREMENTS

A. Section 07 92 00 - Joint Sealants: Sealing joints between frames and adjacent construction.

B. Section 08 71 00 - Door Hardware: Hardware items other than specified in this section.

C. Section 08 80 00 - Glazing: Glass and glazing accessories.

1.03 REFERENCE STANDARDS

A. AAMA CW-10 - Care and Handling of Architectural Aluminum from Shop to Site 2015.

B. AAMA 501.2 - Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems 2015.

C. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix) 2022.

D. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate 2021a.

E. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes 2021.

F. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric) 2021.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, glass and infill, door hardware, and internal drainage details.

C. Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related work, expansion and contraction joint location and details, and field welding required.

D. Design Data: Provide framing member structural and physical characteristics, engineering calculations, and dimensional limitations.

E. Manufacturer's Certificate: Certify that the products supplied meet or exceed the specified requirements.

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1.05 QUALITY ASSURANCE

A. Designer Qualifications: Design structural support framing components under direct supervision of a Professional Structural Engineer experienced in design of this Work and licensed in the State in which the Project is located.

B. Manufacturer Qualifications: Company specializing in performing work of type specified and with at least ten years of experience.

C. Installer Qualifications: Company specializing in performing work of type specified and with at least five years of documented experience.
   1. Provide company, field supervisors, and installers that hold active ANSI accredited certifications in appropriate categories for work specified.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Handle products of this section in accordance with AAMA CW-10.

B. Protect finished aluminum surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond to aluminum when exposed to sunlight or weather.

1.07 FIELD CONDITIONS

A. Do not install sealants when ambient temperature is less than 40 degrees F. Maintain this minimum temperature during and 48 hours after installation.

1.08 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Provide twenty year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Aluminum-Framed Storefronts:
   1. C.R. Laurence Company, Inc; U.S. Aluminum: www.crl-arch.com.
   2. EFCO Corporation: www.efcocorp.com.
   3. Kawneer North America; 451T with wide stile doors: www.kawneer.com.
   4. Pittco Architectural Metals Inc; TMS 114T: www.pittcometals.com.
   5. Tubelite, Inc; T14000 Series (Thermal-polyurethane casting) with wide stile doors: www.tubeliteinc.com.
   6. YKK AP America; YES 45 TU with Model 50D wide stile doors: www.ykkap.com.
   7. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 ALUMINUM-FRAMED STOREFRONT

A. Aluminum-Framed Storefront: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
   1. Glazing Rabbet: For 1 1/8 inch security glazing.
   2. Glazing Rabbet: For 1/4 inch monolithic glazing.
   3. Glazing Position: Centered (front to back).

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4. Vertical Mullion Dimensions: 2 inches wide by 4-1/2 inches deep.
5. Finish: Superior performing organic coatings.
   a. Factory finish all surfaces that will be exposed in completed assemblies.
   b. Touch-up surfaces cut during fabrication so that no natural aluminum is visible in completed assemblies, including joint edges.
6. Finish Color: As selected by Architect from manufacturer's standard line.
7. Fabrication: Joints and corners flush, and hairline accurately fitted and secured; prepared to receive anchors and hardware; fasteners and attachments concealed from view; reinforced as required for imposed loads.
8. Movement: Allow for movement between storefront and adjacent construction, without damage to components or deterioration of seals.
9. Perimeter Clearance: Minimize space between framing members and adjacent construction while allowing expected movement.

2.03 COMPONENTS

A. Aluminum Framing Members: Tubular aluminum sections.
   1. Framing members for interior applications need not be thermally broken.
   2. Glazing Stops: Flush.

B. Glazing: See Section 08 80 00.

C. Swing Doors: Glazed aluminum.
   1. Finish: Same as storefront.

2.04 MATERIALS

A. Extruded Aluminum: ASTM B221 (ASTM B221M).

B. Sheet Aluminum: ASTM B209/B209M.

C. Fasteners: Stainless steel.

D. Glazing Gaskets: Type to suit application to achieve weather, moisture, and air infiltration requirements.

E. Glazing Accessories: See Section 08 80 00.

F. Framing Accessory: Glazing channel aluminum pocket cap. Pre-finished to match existing aluminum storefront system.

2.05 FINISHES

A. Superior Performing Organic Coatings System: Manufacturer's standard multi-coat superior performing organic coatings system complying with AAMA 2605, including at least 70 percent polyvinylidene fluoride (PVDF) resin, and at least 80 percent of aluminum extrusion and panels surfaces having minimum total dry film thickness (DFT) of 1.2 mils, 0.0012 inch.

B. Color: As selected by Architect/Engineer from manufacturer's standard range.

C. Touch-Up Materials: As recommended by coating manufacturer for field application.

2.06 HARDWARE

A. Other Door Hardware: See Section 08 71 00.

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PART 3 EXECUTION

3.01 EXAMINATION

A. Verify dimensions, tolerances, and method of attachment with other work.

B. Verify that storefront wall openings and adjoining water-resistive and/or air barrier seal materials are ready to receive work of this section.

3.02 INSTALLATION

A. Install wall system in accordance with manufacturer's instructions.

B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.

C. Provide alignment attachments and shims to permanently fasten system to building structure.

D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.

E. Provide thermal isolation where components penetrate or disrupt building insulation.

F. Install sill flashings. Turn up ends and edges; seal to adjacent work to form water tight dam.

G. Where fasteners penetrate sill flashings, make watertight by seating and sealing fastener heads to sill flashing.

H. Coordinate attachment and seal of perimeter air and vapor barrier materials.

I. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.

J. Install operating sash.

K. Set thresholds in bed of sealant and secure.

L. Install hardware using templates provided.
   1. See Section 08 71 00 for hardware installation requirements.

M. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.

3.03 TOLERANCES

A. Maximum Variation from Plumb: 0.06 inch per 3 feet non-cumulative or 0.06 inch per 10 feet, whichever is less.

B. Maximum Misalignment of Two Adjoining Members Abutting in Plane: 1/32 inch.

3.04 FIELD QUALITY CONTROL

A. Water-Spray Test: Provide water spray quality test of installed storefront components in accordance with AAMA 501.2 during construction process and before installation of interior finishes.
   1. Perform a minimum of two tests in each designated area as indicated on drawings.
   2. Conduct tests in each area prior to 10 percent and 50 percent completion of this work.

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3.05 ADJUSTING

A. Adjust operating hardware and sash for smooth operation.

3.06 CLEANING

A. Remove protective material from pre-finished aluminum surfaces.

B. Wash down surfaces with a solution of mild detergent in warm water, applied with soft, clean wiping cloths, and take care to remove dirt from corners and to wipe surfaces clean.

C. Remove excess sealant by method acceptable to sealant and framing manufacturers.

3.07 PROTECTION

A. Protect installed products from damage until Date of Substantial Completion.

END OF SECTION

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SECTION 08 56 53
SECURITY WINDOWS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Security transaction windows with pass-through device.

1.02 RELATED REQUIREMENTS

A. Section 04 20 00 - Unit Masonry: Installation of anchorage items embedded in masonry.

B. Section 07 92 00 - Joint Sealants: Sealing joints between frames and adjacent construction.

C. Section 08 11 13 - Hollow Metal Doors and Frames: Interior, non-ballistic- and non-forced-entry-rated steel windows.

D. Section 09 21 16 - Gypsum Board Assemblies: Bullet-resistant sheathing and wallboard for bullet-resistant partitions and walls.

E. Section 09 91 23 - Interior Painting: Field painting.

1.03 REFERENCE STANDARDS

A. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum 2020.

B. UL 752 - Standard for Bullet-Resisting Equipment Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Furnish anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, to be embedded into concrete or masonry, with setting diagrams and installation, to applicable installer in time for installation.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Manufacturer's published data showing materials, construction details, dimensions of components, and finishes.

C. Shop Drawings: Drawings prepared specifically for this project, showing plans, elevations, sections, details of construction, anchorage to other work, hardware, and glazing.
   1. For existing openings show verified field dimensions.

D. Samples for Selection of Applied Finishes: Color charts for factory finishes.

E. Coordination Drawings: For each window opening, show locations and details of items necessary to anchor windows that must be installed by others, in sufficient detail that installer of those items can do so correctly without reference to the actual window itself.

F. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements for additional provisions.

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1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Firm with at least 5 years experience in the manufacture of windows of the type specified and able to provide test reports showing that their standard manufactured products meet the specified requirements; custom designed products not acceptable.

B. Testing Agency Qualifications: Independent testing agency able to show experience in conducting tests of the type specified and:

C. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

1.07 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Provide manufacturer's warranty agreeing to repair or replace windows and window components that fail within three years after Date of Substantial Completion due to, but not limited to, the following:
   1. Structural failure, failure of welds, and deterioration of metals and finishes beyond that expected under detention use and normal weathering.
   2. Failure of glazing due to excessive deflection of supporting members under wind load.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Security Transaction Windows with Pass-Through Device:
   1. Quikserv: www.quikserv.com/#sle.
   2. Total Security Solutions: https://www.tssbulletproof.com/.
   3. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 ASSEMBLIES

A. Security and Detention Windows:
   1. Dimensions, profiles, features, and performance specified and indicated on drawings are required; do not deviate unless specifically approved by Architect/Engineer under substitution procedures; see Section 01 60 00.
   2. Design to fit openings indicated on drawings; design to accommodate deviation of actual construction from dimensions indicated on drawings.
   3. Fabricate frames and sash with corners mitered or coped full depth with concealed welded joints.
   4. Design anchorages to provide performance equivalent to that required for window unit; provide anchorages at least equivalent to those by which the tested units were anchored to the test frame.
   5. Separate dissimilar metals to prevent corrosion by galvanic action by painting contact surfaces with primer or with sealant or tape recommended by manufacturer for the purpose.
   6. Weld components before finishing and in concealed locations, to greatest extent possible; minimize distortion and discoloration of finish; remove residue of welding; grind exposed welds smooth and finish to match.
   7. Label units to indicate which side is which, such as inside/outside or secure/non-secure; use labels that are removable after installation but durable enough not to be lost during delivery,

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storage, handling, and installation.

2.03 SECURITY TRANSACTION WINDOWS WITH PASS-THROUGH DEVICE

A. Security Transaction Windows with Pass-Though Device:
   1. Location: Built within interior wall, as indicated on drawings.
   2. Type of Use: As indicated on drawings.
   3. Ballistic Resistance: Tested to meet UL 752, Level 4.
   4. Window Type: Fixed.
      a. Overall Window Frame Size: As indicated on drawings.
      b. Frame Material: Aluminum.
         1) Finish: Natural anodized.
   5. Glazing: Single (monolithic), clear, and ballistic resistant.
      a. Tempered safety glazing.
   6. Pass-Through Device: Deal Tray.
      a. Material: Corrosion resistant.
      b. Finish Color: As selected from manufacturer's standard colors.
   7. Counter Staging Area: Attendant-side.
   8. Communication: Standard talk-through portal.

2.04 ASSEMBLY COMPONENTS

A. Frame Anchors: Mild steel plates, shapes, or bars, concealed in completed construction; provide anchorage devices as necessary to securely fasten windows to adjacent construction; use security fasteners for exposed anchors.
   1. For Setting in Masonry: Minimum 3/16 inch thick angles or plates, minimum 4 inches long with hooked ends, welded to back of window frame.
   2. Provide minimum of two anchors per side of window plus one additional anchor for each 18 inches or fraction thereof more than 36 inches in height or width.

B. Glazing Seals: Factory installed; molded EPDM or neoprene compressible gaskets and compression strips.

C. Deal Trays: Formed stainless steel, recessed into counter or sill for mounting under glazing frame.
   1. Style: Ricochet-resistant, with recessed bullet trap on secure side, with sliding cover.
   2. Clear Opening Height: 1-1/2 inches.
   3. Tray Dimensions: 16 by 10 inches, wide by deep.
   4. Listed and labeled by UL as bullet resisting to UL 752 same level as window.

2.05 FINISHES

A. Class II Natural Anodized Finish: AAMA 611 AA-M12C22A31 Clear anodic coating not less than 0.4 mils thick.

B. Color: As selected by Architect/Engineer from manufacturer's standard range.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that window openings are ready for installation of windows.

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B. Notify Architect/Engineer if conditions are not suitable for installation of windows; do not proceed until conditions are satisfactory.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions and drawing details.

B. Install windows in correct orientation (inside/outside or secure/non-secure).

C. Anchor windows securely in manner so as to achieve performance specified.

D. Set sill members and sill flashing in continuous bead of sealant.

3.03 CLEANING

A. Clean exposed surfaces promptly after installation without damaging finishes.

B. Remove and replace defective work.

END OF SECTION

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SECTION 08 71 00
DOOR HARDWARE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Hardware for wood, aluminum, and hollow metal doors.

B. Electrically operated and controlled hardware.
   1. Communications/control wiring and final communications/control wiring connections to electrically operated and controlled hardware components.

C. Keying of locks, keys, key management system, and key cabinet.

D. Fire department lock box.

1.02 RELATED REQUIREMENTS

A. Section 08 11 13 - Hollow Metal Doors and Frames.

B. Section 08 14 16 - Flush Wood Doors.

C. Section 08 43 13 - Aluminum-Framed Storefronts: Door hardware, except as noted in section.

D. Section 28 10 00 - Access Control: Electronic access control devices.

1.03 REFERENCE STANDARDS

A. ADA Standards - 2010 ADA Standards for Accessible Design 2010.

B. BHMA (CPD) - Certified Products Directory Current Edition.

C. BHMA A156.1 - Standard for Butts and Hinges 2021.

D. BHMA A156.3 - Exit Devices 2020.

E. BHMA A156.4 - Door Controls - Closers 2019.

F. BHMA A156.6 - Standard for Architectural Door Trim 2021.

G. BHMA A156.7 - Template Hinge Dimensions 2016.

H. BHMA A156.8 - Door Controls - Overhead Stops and Holders 2021.

I. BHMA A156.13 - Mortise Locks & Latches Series 1000 2022.

J. BHMA A156.16 - Auxiliary Hardware 2018.

K. BHMA A156.18 - Materials and Finishes 2020.

L. BHMA A156.31 - Electric Strikes and Frame Mounted Actuators 2019.

M. BHMA A156.36 - Auxiliary Locks 2020.

N. BHMA A156.115 - Hardware Preparation in Steel Doors and Steel Frames 2016.

O. BHMA A156.115W - Hardware Preparation in Wood Doors with Wood or Steel Frames 2006.

P. DHI (H&S) - Sequence and Format for the Hardware Schedule 2019.

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Q. ICC A117.1 - Accessible and Usable Buildings and Facilities 2017.

R. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

S. UL (DIR) - Online Certifications Directory Current Edition.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the manufacture, fabrication, and installation of products that door hardware is installed on.

B. Sequence installation to ensure utility connections are achieved in an orderly and expeditious manner.

C. Preinstallation Meeting: Convene a preinstallation meeting one week prior to commencing work of this section; attendance is required by affected installers and the following:
   1. Architect/Engineer.
   2. Installer's Architectural Hardware Consultant (AHC).
   3. Hardware Installer.
   4. Owner's Security Consultant.

D. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.

E. Keying Requirements Meeting:
   1. Schedule meeting at project site prior to Contractor occupancy.
   2. Attendance Required:
      a. Contractor.
      b. Owner.
      c. Installer's Architectural Hardware Consultant (AHC).
      d. Owner's Security Consultant.
   3. Agenda:
      a. Establish keying requirements.
      b. Verify locksets and locking hardware are functionally correct for project requirements.
      c. Verify that keying and programming complies with project requirements.
      d. Establish keying submittal schedule and update requirements.
   4. Incorporate "Keying Requirements Meeting" decisions into keying submittal upon review of door hardware keying system including, but not limited to, the following:
      a. Access control requirements.
      b. Key control system requirements.
      c. Schematic diagram of preliminary key system.
   5. Record minutes and distribute copies within two days after meeting to participants, with two copies to Architect/Engineer, Owner, participants, and those affected by decisions made.
   6. Deliver established keying requirements to manufacturers.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Manufacturer's catalog literature for each type of hardware, marked to clearly show products to be furnished for this project, and includes construction details, material descriptions,

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finishes, and dimensions and profiles of individual components.

C. Shop Drawings - Door Hardware Schedule: Submit detailed listing that includes each item of hardware to be installed on each door. Use door numbering scheme as included in Contract Documents.
   1. Prepared by or under supervision of Architectural Hardware Consultant (AHC).
   2. Comply with DHI (H&S) using door numbers and hardware set numbers as indicated in construction documents.
   3. List groups and suffixes in proper sequence.
   4. Provide complete description for each door listed.
   5. Provide manufacturer name, product names, and catalog numbers; include functions, types, styles, sizes and finishes of each item.
   6. Include account of abbreviations and symbols used in schedule.

D. Shop Drawings - Electrified Door Hardware: Submit diagrams for power, signal, and control wiring for electrified door hardware that include details of interface with building safety and security systems. Provide elevations and diagrams for each electrified door opening as follows:
   1. Prepared by or under supervision of Architectural Hardware Consultant (AHC) and Electrified Hardware Consultant (EHC).
   2. Elevations: Submit front and back elevations of each door opening showing electrified devices with connections installed and an operations narrative describing how opening operates from either side at any given time.
   3. Diagrams: Submit point-to-point wiring diagram that shows each device in door opening system with related colored wire connections to each device.

E. Keying Schedule:
   1. Submit three (3) copies of Keying Schedule in compliance with requirements established during Keying Requirements Meeting unless otherwise indicated.

F. Installer's qualification statement.

G. Supplier's qualification statement.

H. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.

I. Maintenance Materials and Tools: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Lock Cylinders: One for each master keyed group.
   3. Tools: One set of each special wrench or tool applicable for each different or special hardware component, whether supplied by hardware component manufacturer or not.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years of experience.

B. Installer Qualifications: Company specializing in performing work of the type specified for commercial door hardware with at least five years of documented experience.

C. Supplier Qualifications: Company with certified Architectural Hardware Consultant (AHC) and Electrified Hardware Consultant (EHC) to assist in work of this section.

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1.07 DELIVERY, STORAGE, AND HANDLING

A. Package hardware items individually; label and identify each package with door opening code to match door hardware schedule.

1.08 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Provide manufacturers' warranties against defects in material and workmanship for period indicated, from Date of Substantial Completion.
   1. Closers: Twenty-five years, minimum.
   2. Exit Devices: Three years, minimum.

PART 2 PRODUCTS

2.01 DESIGN AND PERFORMANCE CRITERIA

A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.

B. Provide individual items of single type, of same model, and by same manufacturer.

C. Provide door hardware products that comply with the following requirements:
   1. Applicable provisions of federal, state, and local codes.
   2. Accessibility: ADA Standards and ICC A117.1.
   3. Listed and certified compliant with specified standards by BHMA (CPD).
   4. Auxiliary Hardware: BHMA A156.16.
   5. Hardware Preparation for Steel Doors and Steel Frames: BHMA A156.115.
   6. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.
   7. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified.

D. Electrically Operated and/or Controlled Hardware: Provide necessary power supplies, power transfer hinges, relays, and interfaces as required for proper operation; provide wiring between hardware and control components and to building power connection in compliance with NFPA 70.
   1. See Section 28 10 00 for additional access control system requirements.

E. Lock Function: Provide lock and latch function numbers and descriptions of manufacturer's series. See Door Hardware Schedule.

F. Fasteners:
   1. Provide fasteners of proper type, size, quantity, and finish that comply with commercially recognized standards for proposed applications.
      a. Aluminum fasteners are not permitted.
      b. Provide phillips flat-head screws with heads finished to match door surface hardware unless otherwise indicated.

2.02 HINGES

A. Manufacturers:
   1. McKinney; an Assa Abloy Group company: www.assaabloydss.com/#sle.
   2. Bommer Industries, Inc: www.bommer.com/#sle.

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3. D&D Technologies USA, Inc: www.ddtech.com/#sle.
4. Hager Companies: www.hagerco.com/#sle.
5. Pamex, Inc; Hinges: www.pamexinc.com/#sle.
6. Stanley, dormakaba Group: www.stanleyhardwarefordoors.com/#sle.

B. Hinges: Comply with BHMA A156.1, Grade 1.
1. Butt Hinges: Comply with BHMA A156.1 and BHMA A156.7 for templated hinges.
   a. Provide hinge width required to clear surrounding trim.
2. Provide hinges on every swinging door.
3. Provide five-knuckle full mortise butt hinges unless otherwise indicated.
4. Provide following quantity of butt hinges for each door:
   a. Doors From 60 inches High up to 90 inches High: Three hinges.

2.03 EXIT DEVICES

A. Manufacturers:
1. Corbin Russwin, Sargent, or Yale; an Assa Abloy Group company: www.assaabloydss.com/#sle.
2. DORMA USA, Inc; 8000 Series: www.dorma.com/#sle.
3. Precision, dormakaba Group: www.precisionhardware.com/#sle.
4. Substitutions: See Section 01 60 00 - Product Requirements.

B. Exit Devices: Comply with BHMA A156.3, Grade 1.
1. Lever design to match lockset trim.
2. Provide cylinder with cylinder dogging or locking trim.
3. Provide exit devices properly sized for door width and height.
4. Provide strike as recommended by manufacturer for application indicated.
5. Provide UL (DIR) listed exit device assemblies for fire-rated doors and panic device assemblies for non-fire-rated doors.

2.04 ELECTRIC STRIKES

A. Manufacturers:
1. Adams Rite, HES, or Securitron; an Assa Abloy Group company: www.assaabloydss.com/#sle.
2. Pamex, Inc; Electric Strikes: www.pamexinc.com/#sle.
3. Substitutions: See Section 01 60 00 - Product Requirements.

B. Electric Strikes: Comply with BHMA A156.31, Grade 1.
1. Provide UL (DIR) listed burglary-resistant electric strike; style to suit locks.
2. Provide non-handed 24 VDC electric strike suitable for door frame material and scheduled lock configuration.
3. Provide field selectable Fail Safe/Fail Secure modes.

2.05 LOCK CYLINDERS

A. Lock Cylinders: Provide key access on outside of each lock, unless otherwise indicated.
1. Provide cylinders from same manufacturer as locking device.
2. Provide cams and/or tailpieces as required for locking devices.

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2.06 MORTISE LOCKS

A. Manufacturers:
   1. Corbin Russwin, Sargent, or Yale; an Assa Abloy Group company: www.assaabloydss.com/#sle.
   2. DORMA USA, Inc; M9000 Series: www.dorma.com/#sle.
   3. Substitutions: See Section 01 60 00 - Product Requirements.

B. Mortise Locks: Comply with BHMA A156.13, Grade 1, Security, 1000 Series.
   1. Latchbolt Throw: 3/4 inch, minimum.
   2. Deadbolt Throw: 1 inch, minimum.
   3. Backset: 2-3/4 inch unless otherwise indicated.
   4. Strikes: Provide manufacturer's standard strike for each latchset or lockset with strike box and curved lip extending to protect frame in compliance with indicated requirements.
      a. Finish: To match lock or latch.

2.07 AUXILIARY LOCKS (DEADLOCKS)

A. Manufacturers:
   1. Yale; an Assa Abloy Group company: www.assaabloydss.com/#sle.
   2. Best, dormakaba Group: www.bestaccess.com/#sle.
   3. DORMA USA, Inc; D800 Series and DB600 Series: www.dorma.com/#sle.
   4. Substitutions: See Section 01 60 00 - Product Requirements.

B. Auxiliary Locks (Deadlocks): Comply with BHMA A156.36, Grade 1.
   1. Type: Bored (cylindrical).
   2. Application: Bored.
   3. Backset: 2-3/4 inch, unless otherwise indicated.
   4. Bolt Throw: 1/2 inch, with latch made of hardened steel.
   5. Provide strike that matches frame.

2.08 DOOR PULLS AND PUSH BARS

A. Manufacturers:
   1. Rockwood; an Assa Abloy Group company: www.assaabloydss.com/#sle.
   2. Hiawatha, Inc, division of Activar Construction Products Group, Inc: www.activarcpg.com/hiawatha/#sle.
   3. Trimco: www.trimcohardware.com/#sle.
   4. Substitutions: See Section 01 60 00 - Product Requirements.

B. Door Pulls and Push Bars: Comply with BHMA A156.6.
   1. Bar Type: Bar set, unless otherwise indicated.
   2. Material: Aluminum, unless otherwise indicated.

2.09 CLOSERS

A. Manufacturers; Surface Mounted:
   1. Norton, Sargent, or Yale; an Assa Abloy Group company: www.assaabloydss.com/#sle.
   2. LCN, an Allegion brand: www.allegion.com/us/#sle.

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3. Substitutions: See Section 01 60 00 - Product Requirements.

B. Closers: Comply with BHMA A156.4, Grade 1.
1. Type: Surface mounted to door.
2. At corridor entry doors, mount closer on room side of door.

2.10 OVERHEAD STOPS AND HOLDERS

A. Manufacturers:
1. Rixson or Sargent; an Assa Abloy Group company: www.assaabloydss.com/#sle.
2. DORMA USA, Inc; 900 Series: www.dorma.com/#sle.
3. Substitutions: See Section 01 60 00 - Product Requirements.

B. Overhead Stops and Holders (Door Checks): Comply with BHMA A156.8, Grade 1.

2.11 PROTECTION PLATES

A. Manufacturers:
1. Rockwood; an Assa Abloy Group company: www.assaabloydss.com/#sle.
2. Hager Companies: www.hagerco.com/#sle.
3. Ives, an Allegion brand: www.allegion.com/us/#sle.
4. Trimco: www.trimcohardware.com/#sle.
5. Substitutions: See Section 01 60 00 - Product Requirements.

B. Protection Plates: Comply with BHMA A156.6.

C. Metal Properties: Aluminum material.
1. Metal, Heavy Duty: Thickness 0.062 inch, minimum.

D. Edges: Beveled, on four sides unless otherwise indicated.

E. Fasteners: Countersunk screw fasteners.

2.12 KICK PLATES

A. Kick Plates: Provide along bottom edge of push side of every door with closer, except aluminum storefront and glass entry doors, unless otherwise indicated.
1. Size: 8 inch high by 2 inch less door width (LDW) on push side of door.

2.13 WALL STOPS

A. Wall Stops: Comply with BHMA A156.16, Grade 1 and Resilient Material Retention Test as described in this standard.
1. Provide wall stops to prevent damage to wall surface upon opening door.
2. Type: Bumper, concave, wall stop.
3. Material: Aluminum housing with rubber insert.

2.14 SILENCERS

A. Silencers: Provide at equal locations on door frame to mute sound of door's impact upon closing.
1. Single Door: Provide three on strike jamb of frame.
2. Pair of Doors: Provide two on head of frame, one for each door at latch side.
3. Material: Rubber, gray color.

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2.15 FINISHES

A. Finishes: Provide door hardware of same finish, unless otherwise indicated.
   1. Primary Finish: 625; bright chromium plated over nickel, with brass or bronze base material (former US equivalent US26); BHMA A156.18.
   2. Secondary Finish: 626; satin chromium plated over nickel, with brass or bronze base material (former US equivalent US26D); BHMA A156.18.
      a. Use secondary finish in kitchens, bathrooms, and other spaces containing chrome or stainless steel finished appliances, fittings, and equipment; provide primary finish on one side of door and secondary finish on other side if necessary.
   3. Exceptions:
      a. Where base material metal is specified to be different, provide finish that is an equivalent appearance in accordance with BHMA A156.18.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that doors and frames are ready to receive this work; labeled, fire-rated doors and frames are properly installed, and dimensions are as indicated on shop drawings.

B. Verify that electric power is available to power operated devices and of correct characteristics.

3.02 INSTALLATION

A. Install hardware in accordance with manufacturer's instructions and applicable codes.

B. Use templates provided by hardware item manufacturer.

C. Door Hardware Mounting Heights: Distance from finished floor to center line of hardware item. As indicated in following list; unless noted otherwise in Door Hardware Schedule or on drawings.

D. Set exterior door thresholds with full-width bead of elastomeric sealant at each point of contact with floor providing a continuous weather seal; anchor thresholds with stainless steel countersunk screws.

3.03 FIELD QUALITY CONTROL

A. Perform field inspection and testing under provisions of Section 01 40 00 - Quality Requirements.

3.04 ADJUSTING

A. Adjust work under provisions of Section 01 70 00 - Execution and Closeout Requirements.

B. Adjust hardware for smooth operation.

C. Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

3.05 CLEANING

3.06 PROTECTION

A. Protect finished Work under provisions of Section 01 70 00 - Execution and Closeout Requirements.

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B. Do not permit adjacent work to damage hardware or finish.

END OF SECTION

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SECTION 08 80 00
GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Glazing units.

B. Laminated glass interlayers.

C. Glazing compounds.

1.02 RELATED REQUIREMENTS

A. Section 07 92 00 - Joint Sealants: Sealants for other than glazing purposes.

B. Section 08 43 13 - Aluminum-Framed Storefronts: Glazing provided as part of storefront assembly.

C. Section 08 56 53 - Security Windows: Glazing provided as part of security assembly.

1.03 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials Current Edition.

B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test 2015 (Reaffirmed 2020).

C. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers 2005 (Reapproved 2019).

D. ASTM C1036 - Standard Specification for Flat Glass 2021.

E. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass 2018.

F. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass 2019.

G. ASTM C1193 - Standard Guide for Use of Joint Sealants 2016.

H. ASTM C1349 - Standard Specification for Architectural Flat Glass Clad Polycarbonate 2017.

I. GANA (SM) - GANA Sealant Manual 2008.

J. UL 752 - Standard for Bullet-Resisting Equipment Current Edition, Including All Revisions.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.

C. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

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1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.

1.06 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Laminated Glass: Provide a five (5) year manufacturer warranty to include coverage for delamination, including providing products to replace failed units.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Glass Fabricators:
   1. GGI - General Glass International: www.generalglass.com/#sle.
   2. Standard Bent Glass Corp: www.standardbent.com/#sle.
   3. Tecnoglass; Insulating Glass: www.tecnoglass.com/#sle.
   4. Thompson I.G., LLC: www.thompsonig.com/#sle.
   5. Trulite Glass & Aluminum Solutions, LLC: www.trulite.com/#sle.
   6. Viracon, Inc: www.viracon.com/#sle.
   7. Substitutions: See Section 01 60 00 - Product Requirements.

B. Laminated Glass Manufacturers:
   1. Cardinal Glass Industries: www.cardinalcorp.com/#sle.
   2. Tecnoglass; Laminated Glass: www.tecnoglass.com/#sle.
   3. Thompson I.G., LLC; Laminated Glass: www.thompsonig.com/#sle.
   4. Viracon, Architectural Glass segment of Apogee Enterprises, Inc: www.viracon.com/#sle.
   5. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 GLASS MATERIALS

A. Float Glass: Provide float glass based glazing unless otherwise indicated.
   1. Annealed Type: ASTM C1036, Type I - Transparent Flat, Class 1 - Clear, Quality - Q3.
   2. Kind HS - Heat-Strengthened Type: Complies with ASTM C1048.
   3. Kind FT - Fully Tempered Type: Complies with ASTM C1048.
      a. Complies with ANSI Z97.1 or 16 CFR 1201 criteria for safety glazing used in hazardous locations.
      b. Complies with ANSI Z97.1 - Class A and 16 CFR 1201 - Category II criteria.
   4. Thicknesses: As indicated; provide greater thickness as required for exterior glazing wind load design.

B. Laminated Glass: Float glass laminated in accordance with ASTM C1172.
   1. Laminated Safety Glass: Complies with ANSI Z97.1 - Class B or 16 CFR 1201 - Category I impact test requirements.

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2.03 GLAZING UNITS

A. Type FG1 - Monolithic Interior Vision Glazing:
   1. Applications: Interior glazing unless otherwise indicated.
   2. Glass Type: Fully tempered float glass.
   3. Tint: Clear.
   4. Thickness: 1/4 inch, nominal.
   5. Glazing Method: Dry glazing method, gasket glazing.

B. Type BG1 - Glass-Clad Polycarbonate Security Glazing: Laminated glass and polycarbonate, 2-Ply; ASTM C1349.
   1. Applications: Locations as indicated on drawings.
   2. Tint: Clear.
   3. Thickness: 1-1/8 inch.
   4. Outer Lite: Tempered glass.
   5. Interlayer: Polyvinyl butyral (PVB), thickness as required to meet performance criteria.
   6. Middle Lite: Tempered glass.
   7. Interlayer , Inboard Side : Polyvinyl butyral (PVB), thickness as required to meet performance criteria.
   8. Inside Lite: Polycarbonate.
   9. Performance Criteria:
      a. Bullet Resistance: Pass UL 752 tests in compliance with ballistic criteria level and weapon description indicated; Level 4 - .30 caliber rifle lead core.
   10. Visible Light Transmittance (VLT): 75 percent, nominal.
   11. Glazing Method: As required to meet performance criteria.
   12. Manufacturers:
      a. Total Security Solutions: www.tssbulletproof.com.
      b. Insulgard Security Products: www.insulgard.com.
      c. Substitutions: See Section 01 60 00 - Product Requirements.

2.04 ACCESSORIES

A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch by width of glazing rabbet space minus 1/16 inch by height to suit glazing method and pane weight and area.

B. Glazing Splines: Resilient silicone extruded shape to suit glazing channel retaining slot; ASTM C864 Option II; color black.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.

B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.

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C. Verify that sealing between joints of glass framing members has been completed effectively.

3.02 PREPARATION

A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.

B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.

C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

3.03 INSTALLATION, GENERAL

A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.

B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.

C. Do not exceed edge pressures around perimeter of glass lites as stipulated by glass manufacturer.

D. Set glass lites of system with uniform pattern, draw, bow, and similar characteristics.

E. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.

F. Prevent glass from contact with any contaminating substances that may be the result of construction operations such as, and not limited to the following; weld splatter, fire-safing, plastering, mortar droppings, etc.

3.04 INSTALLATION - DRY GLAZING METHOD (GASKET GLAZING)

A. Application - Exterior and/or Interior Glazed: Set glazing infills from either the exterior or the interior of the building.

B. Place setting blocks at 1/4 points with edge block no more than 6 inch from corners.

C. Rest glazing on setting blocks and push against fixed stop with sufficient pressure on gasket to attain full contact.

D. Install removable stops without displacing glazing gasket; exert pressure for full continuous contact.

3.05 INSTALLATION - PLASTIC FILM

A. Install plastic film with adhesive, applied in accordance with film manufacturer's instructions.

B. Place without air bubbles, creases or visible distortion.

C. Install film tight to perimeter of glass and carefully trim film with razor sharp knife. Provide 1/16 inch to 1/8 inch gap at perimeter of glazed panel unless otherwise required. Do not score the glass.

3.06 FIELD QUALITY CONTROL

A. Glass and Glazing product manufacturers to provide field surveillance of the installation of their products.

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B. Monitor and report installation procedures and unacceptable conditions.

3.07 CLEANING

A. Remove excess glazing materials from finish surfaces immediately after application using solvents or cleaners recommended by manufacturers.

B. Remove nonpermanent labels immediately after glazing installation is complete.

C. Clean glass and adjacent surfaces after sealants are fully cured.

D. Clean glass on both exposed surfaces not more than 4 days prior to Date of Substantial Completion in accordance with glass manufacturer's written recommendations.

3.08 PROTECTION

A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.

B. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

END OF SECTION

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SECTION 08 88 36.16
ELECTRONICALLY CONTROLLED SWITCHABLE GLASS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Electronically controlled (EC) switchable privacy laminated glass units (LGU) and associated system controls.

1.02 RELATED REQUIREMENTS

A. Section 08 43 13 - Aluminum-Framed Storefronts: Supporting framework for EC tintable IGU.

B. Section 26 05 83-Wiring Connections

1.03 ABBREVIATIONS AND ACRONYMS

A. EC - Electronically Controlled.

B. IGU - Insulating Glass Units.

C. LGU - Laminated Glass Units.

1.04 DEFINITIONS

A. Bite: Width that edge of glass product is engaged into glazing channel.

B. Busbar: Thin narrow strip of metal that conducts electricity, and is used to apply voltage across the EC surface of switchable glass or film.

C. Fenestration: Openings in building's envelope including windows, doors, and skylights.

D. Frame Cable: Cable that runs through framing system and connects EC glass pigtail to low voltage wiring system of building.

E. Framing System: Metal supporting structure of EC glazing system.

F. Glazing Performance Characteristics and Criteria for EC Laminated Glass Units (LGU):
   1. Privacy Mode: Natural (Off) state, with lowest visible light transmission.
   2. Non-Privacy Mode: Active (On) state, with highest visible light transmission.

G. Laminated Glass: Two sheets of monolithic glass bonded together with interlayer sheet by heat and pressure.

H. Pigtail: Electrical leads that extends from individual EC tintable IGU or LGU.

1.05 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials Current Edition.

B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test 2015 (Reaffirmed 2020).

C. ASTM C1036 - Standard Specification for Flat Glass 2021.

D. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass 2018.

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E. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass 2019.

F. ASTM C1184 - Standard Specification for Structural Silicone Sealants 2018, with Editorial Revision.

G. GANA (GIB 01-0300) - Glass Informational Bulletin (Proper Procedures for Cleaning Architectural Glass Products) 2010.

H. GANA (GIB TD-02-0402) - Glass Informational Bulletin (Heat-Treated Glass Surfaces are Different) 2018.

I. GANA (GM) - GANA Glazing Manual 2022.

J. IGMA TM-3000 - North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial & Residential Use 1990 (2016).

K. NECA 1 - Standard for Good Workmanship in Electrical Construction 2015.

L. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.06 ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate installation of EC switchable glass as required for project configuration with following related building elements:
   1. Cables in framing system of exterior fenestration.
   2. Cables in wall and ceiling systems.
   3. Control system components.
   4. Electrical power supply.

B. Preinstallation Meeting: Conduct preinstallation meeting one week prior to start of this Work to review procedures, schedules, safety, and coordination with other elements of project; attendance required by the following:
   1. Owner's Representative.
   2. Architect/Engineer.
   3. EC switchable glass manufacturer's representative.
   4. Manufacturer's representatives for systems that require an interface with this Work.
   5. Other installers affected by this Work.

1.07 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Manufacturer's product data sheets including installation instructions.

C. Shop Drawings: Submit the following for EC switchable glass overall system in accordance with project configuration indicated.
   1. Support Framing System: Include framing system and accommodations for cables, components, cable routing, location of connectors, and exits from framing system.
   2. Control System: Indicate location of system components, proposed routing of system cabling, and associated power requirements.
      a. Include schematic wiring diagram showing field connections.

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3. Individual Pane Zoning Layout: Indicate EC tintable zones for IGU as required for project.

D. Samples: One EC switchable glass samples, with each achieving two end states, and no intermediate states.

E. Designer's qualification statement.

F. Manufacturer's qualification statement.

G. Installer's qualification statement.

1.08 QUALITY ASSURANCE

A. Designer Qualifications: Perform design under direct supervision of a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located.

B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than five years of documented experience.

C. Installer Qualifications: Company specializing in performing work specified in this section, with at least five years of documented experience and approved by manufacturer.

1.09 DELIVERY, STORAGE, AND HANDLING

A. Comply with manufacturer's instruction for receiving, handling, storing, and protecting materials.

B. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Store materials in original packaging, protected from exposure to harmful environmental conditions including static electricity, and at temperature and humidity conditions recommended by manufacturer.

D. Exercise care to prevent edge damage to glass, wiring, and coatings on glass.

1.10 FIELD CONDITIONS

A. Ambient Conditions: Ensure that substrate surface and ambient air temperature are at least 40 degrees F and rising, and remain above that temperature for at least 24 hours after application of sealants.

B. Maintain ambient temperature at greater than 32 degrees F during installation of system related cabling.

C. Provide an activated climate-controlled interior environment for installation of EC switchable glass control system components.

1.11 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Manufacturer Warranty: Provide five-year manufacturer warranty for EC switchable glass units with laminated glass products against lamination defects, including edge separation or delamination that materially obstruct vision through the glass. Complete forms in Owner's name and register with manufacturer.

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C. Manufacturer Warranty: Provide two-year manufacturer warranty for EC tintable controls against defects in material or workmanship. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. EC Switchable Privacy Laminated Glass Units (LGU):
   1. Manufacturers:
      a. Goldray Industries, Inc; QuickFrost: www.goldrayglass.com/#sle.
      b. McGrory Glass, Inc; ElectraView by McGrory Glass: www.mcgrory.com/#sle.
      c. Privacy Glass Solutions; Clarity: www.privacyglasssolutions.com/#sle.
      d. Thompson I.G., LLC; Interior Switchable Privacy Glass: www.thompsonig.com/#sle.
      e. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PERFORMANCE REQUIREMENTS

2.03 CONTROLS

A. Unless specifically indicated to be excluded, provide required equipment, conduit, boxes, wiring, connectors, hardware, supports, accessories, software, and system programming, etc. as necessary for a complete EC switchable glass and film operating system.

B. Provide control system and associated components that achieve system control requirements described under PERFORMANCE REQUIREMENTS article above.

C. Manual Control Switches:
   1. Allows selection of full tint and full clear.
   2. Provides indication of current tint level.

D. Class 2 Low Voltage Cables: Plenum rated.

E. Use weathertight connectors for connection of frame cables to IGU pigtails.

2.04 GLASS MATERIALS

A. Float Glass: Glazing to be float glass unless otherwise indicated.
   1. Annealed Type: ASTM C1036, Type 1, transparent flat, Class 1 clear, Quality Q3 (glazing select).
   2. Kind HS - Heat Strengthened and Kind FT - Fully Tempered in accordance with ASTM C1048.
   3. Thicknesses: As indicated; for exterior glazing comply with specified requirements for wind load design regardless of specified thickness.

B. Laminated Glass: Float glass laminated in accordance with ASTM C1172 and fabricated in autoclave with heat and pressure, free of foreign substances and air pockets.
   1. Safety Glass: Comply with ANSI Z97.1 and 16 CFR 1201 test requirements for Category II.
   2. Interlayer: Polyvinyl butyral (PVB) type, clear, 0.060 inch thick, minimum.

2.05 ELECTRONICALLY CONTROLLED (EC) PRIVACY LAMINATED GLASS UNITS (LGU)

A. EC Privacy LGU: Maximum size of 48 inch by 110 inch and minimum size of 12 inch by 12 inch.
   1. EC laminated glass with switchable film between two glass lites and attached to power source.

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2. Applications: Interior vertical glazing.
3. Laminated Lite:
   a. Outer Ply, Glass Type: Kind FT - Fully Tempered float glass.
      1) Nominal Thickness: Manufacturers standard thickness for performance requirements indicated.
      2) Glass Color: Class 1 - Clear.
   b. Inner Ply, Glass Type: Find FT - Fully Tempered float glass.
      1) Nominal Thickness: Manufacturers standard for performance requirements indicated.
      2) Glass Color: Class 1 - Clear.
   c. Interlayer: Polyvinyl butyral (PVB) type.
4. Overall Thickness of LGU: 1" inch.

2.06 ELECTRONICALLY CONTROLLED (EC) PRIVACY FILMS

A. EC Privacy Film:
   1. EC multilayer switchable film attached to power source.
   2. Applications: As indicated on drawings.
   3. Maximum Width: 49 inches.
   4. Thickness: 0.010 inch.

2.07 CONNECTORS

A. EC Glass Busbars: Provide along edge of glass, and elsewhere as necessary, in accordance with EC tintable IGU performance requirements indicated.
   1. Pigtails: Multiconductor sheathed cable extending from edge of EC tintable IGU and terminated with weatherproof connector for connection to frame cable within glazing pocket.
      a. Pigtail Length: 6 inch, minimum.
      b. Provide 7/16 inch minimum diameter hole through framing.

B. EC Film Busbars: Manufacturer's standard, preinstalled along top edge of film.
   1. Pigtails: Low-voltage wiring presoldered to busbars and attached securely to glass panel.

2.08 ACCESSORIES

A. Glazing Materials: Compatible with EC switchable glass components.

B. EC Film Edge Sealing Tape: Clear, protective polyurethane flexible overlaminate dielectric film recommended by EC film manufacturer.

C. EC Film Busbar Sealing Dielectric Tape: Same as edge sealing tape.

D. EC Film Busbar Cover Caps: Nonconductive PVC moldings recommended by EC film manufacturer.
   1. Color: White.

E. Structural Silicone Sealant: Self-priming, elastomeric adhesive complying with ASTM C1184 and recommended by EC film manufacturer.

F. Glass Cleaner: As recommended by EC film manufacturer.

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PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

A. Verify that site conditions are acceptable for installation of EC switchable glass system components.

B. Verify openings for installation of EC switchable glass are correctly sized and within acceptable tolerances.

C. Verify that framing weep system is operating properly and in accordance with GANA (GM) recommendations.

D. Verify that required minimum face and edge clearances are being maintained.

E. Verify that glazing channels, weeps and recesses are clear and free of obstructions and ready for glazing.

F. Verify that glazing pocket is dry where EC switchable glass pigtail and frame cable connection are required to be made.

G. Verify that framing system is sized appropriately for EC switchable glass thickness and proper precautions are taken to not over compress edge seals upon installation.

H. Verify that EC switchable glass secondary seal is compatible with glazing sealants.

I. Verify frame channel dimensions are adequate for required cable runs to be made.

J. Verify locations of penetrations within framing system are acceptable for frame cables and sensor cables into building.

K. Verify electrical rough-in of any conduits and/or boxes required for installation of cables and system devices is complete.

L. Correct any conditions deemed unsatisfactory, and do not proceed with this glazing Work until unsatisfactory conditions have been properly corrected and are complete.

3.02 PREPARATION

A. Prepare glazing channels and other framing members to receive EC switchable glass, pigtails, and frame cable in accordance with manufacturer's recommendations and project requirements.

B. Remove coatings and other harmful materials from glazing substrates that may inhibit specified EC switchable glass performance requirements.

C. Ensure that system related cabling is conditioned at room temperature for at least 24 hours prior to installation.

D. Comply with approved shop drawings and manufacturer's recommendations to modify glass framing as required to accommodate wiring connections to EC film.

E. Clean glass scheduled to receive EC film.

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3.03 ELECTRONICALLY CONTROLLED SWITCHABLE GLASS UNITS INSTALLATION

A. Install system components in accordance with manufacturer's recommendations for LGU, IGU, sealants, gaskets and other glazing materials, pigtails, and frame cables and in compliance with more stringent requirements as indicated in GANA (GM).

B. Comply with framing manufacturer's and referenced industry recommendations regarding installation of expansion joints and anchors, accommodation of thermal movement, glass openings, use of setting blocks and spacer shims, and weep system layout.

C. Install EC switchable glass in prepared glazing channels and framing members in compliance with glass manufacturer's labels and indicated glass orientations.

D. Install glazing units so that active switchable areas of glazing unit extend from edge to edge of finished window system opening without any visible light transmitted along entire perimeter of each glazing unit.

E. Protect glass from edge damage during handling and installation.

F. Protect EC switchable glass pigtail, frame and sensor cables from any damage during installation.
   1. Use grommets during installation to protect pigtails and cables routed through framing.
   2. When frame cable or connector is damaged during installation, replace in accordance with EC switchable glass manufacturer's approved method.
   3. When EC switchable glass pigtail connector is damaged during installation, notify EC switchable glass manufacturer for repair or replacement of damaged components using manufacturer's approved method.

G. Install cabling so that it will not be exposed to direct sunlight, even through glass.
   1. Where installation in an exposed location is necessary, cover or paint cable using a latex water based paint in accordance with manufacturer's approved method.

H. Install setting blocks in glazing pocket as recommended by applicable glazing standards in accordance with GANA (GM) or IGMA TM-3000, and EC switchable glass manufacturer's glazing guidelines.

I. Install edge spacer shims at each side glazing pocket to prevent IGU's from moving horizontally upon installation.

J. Provide bite on glass, minimum edge and face clearances, and glazing material tolerances as indicated in GANA (GM) and as approved by manufacturer.

K. Provide fully functional weep system throughout IGU framing system as indicated in GANA (GM).

L. Distribute weight of IGU along entire bottom edge rather than only at corners.

M. Install IGU's in accordance with IGMA TM-3000, and as follows:
   1. For dry glazed systems, provide an adequate seal consisting of at least 4 lbs per inch and not exceeding 10 lbs per inch pressure applied to the edges of IGU's by gaskets or other acceptable glazing materials.

3.04 ELECTRONICALLY CONTROLLED SWITCHABLE FILM INSTALLATION

A. Clean glass with wetting solution recommended by film manufacturer.

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B. Install system components in accordance with manufacturer's instructions and approved shop drawings.

C. Seal film edges by using clear dielectric sealing tape or neutral silicone sealant recommended or approved by film manufacturer.

D. Seal busbars using clear dielectric sealing tape or neutral silicone sealant recommended or approved by film manufacturer.

E. Conceal busbars using nonconductive cap strips recommended by film manufacturer. Install strips in continuous bead of specified sealant.

3.05 CONTROL SYSTEM INSTALLATION

A. Perform control system installation work in accordance with NECA 1 and in compliance with NFPA 70 requirements.

B. Install system components in accordance with manufacturer's requirements.

C. Mounting Locations:

D. Class 2 Low Voltage Wiring Method: Unless noted otherwise, use cables not installed in conduit where possible.
   1. Install Class 2 low voltage wiring in conduit where required for rough-in, where required by authorities having jurisdiction, and where exposed to damage.
   2. Conduit: Comply with Section 26 05 83.
   3. Conceal cables unless specifically indicated to be exposed.
   4. Route exposed cables parallel or perpendicular to building structural members and surfaces.

E. Provide grounding and bonding in accordance with Section 26 05 83.

F. Identify system wiring and components in accordance with Section 26 05 83.

3.06 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements for additional requirements.

B. Verify that EC switchable glass and corresponding pigtail cables are installed in proper orientation in accordance with approved shop drawings.

C. Test to verify wiring is free of shorts and grounds.

D. Prepare and start system in accordance with manufacturer's instructions.

E. Program system in accordance with project requirements.

F. Test system to confirm for proper operation.

G. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

H. Submit detailed reports indicating inspection and testing results and corrective actions taken.

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3.07 CLEANING

A. Clean EC switchable glass on both exposed glass surfaces immediately after installation and curing of sealants in accordance with manufacturer's, GANA (GIB 01-0300) and GANA (GIB TD-02-0402) requirements.
   1. Remove labels and markings from glass.
   2. Do not use scrapers or other metal tools to clean glass.

3.08 CLOSEOUT ACTIVITIES

A. See Section 01 78 00 - Closeout Submittals for closeout submittals.

B. See Section 01 79 00 - Demonstration and Training for additional requirements.

C. Demonstration: Demonstrate operation of EC switchable glass control system and equipment to Owner's designated personnel.
   1. Use operation and maintenance data as reference during demonstration.
   2. Briefly describe function, operation, and maintenance of each component.

D. Training: Train Owner's personnel on operation and maintenance of system.
   1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
   2. Provide minimum of two hours of training.
   3. Instructor: Manufacturer's training personnel.
   4. Location: At project site.

3.09 PROTECTION

A. IGU Argon Analyzer Testing: Do not allow use of high voltage spark type inert gas analyzers on EC tintable IGU as this may damage film and controls, and potentially void warranty.

B. Protect EC switchable glass and film installations from subsequent construction operations until Date of Substantial Completion.

C. Protect glass from coming into contact with contaminating construction related substances such as weld spatter, fireproofing, plaster, and concrete or mortar slurry.

D. Remove damaged glass that is broken, chipped, cracked, or damaged in any way, and replace with new materials.
   1. Damaged Glass: Glass with edge damage or other imperfections that when installed could weaken glass and impair performance and/or appearance.

END OF SECTION

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SECTION 09 05 61
COMMON WORK RESULTS FOR FLOORING PREPARATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. This section applies to floors identified in Contract Documents that are receiving the following types of floor coverings:
   1. Resilient tile and sheet.
   2. Carpet tile.

B. Removal of existing floor coverings.

C. Preparation of existing concrete floor slabs for installation of floor coverings.

D. Patching compound.

E. Remedial floor coatings.

1.02 RELATED REQUIREMENTS

A. Section 01 21 00 - Allowances: Floor Moisture Mitigation Allowance.

B. Section 01 40 00 - Quality Requirements: Additional requirements relating to testing agencies and testing.

1.03 PRICE AND PAYMENT PROCEDURES

1.04 REFERENCE STANDARDS

A. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50 mm] Cube Specimens) 2021.

B. ASTM C472 - Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters, and Gypsum Concrete 2020.

C. RFCI (RWP) - Recommended Work Practices for Removal of Resilient Floor Coverings 2011.

1.05 ADMINISTRATIVE REQUIREMENTS

A. Coordinate scheduling of cleaning and testing, so that preliminary cleaning has been completed for at least 24 hours prior to testing.

1.06 SUBMITTALS

A. Visual Observation Report: For existing floor coverings to be removed.

B. Floor Covering and Adhesive Manufacturers' Product Literature: For each specific combination of substrate, floor covering, and adhesive to be used; showing:
   1. Moisture and alkalinity (pH) limits and test methods.
   2. Manufacturer's required bond/compatibility test procedure.

C. Remedial Materials Product Data: Manufacturer's published data on each product to be used for remediation.
   1. Manufacturer's qualification statement.

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2. Certificate: Manufacturer's certification of compatibility with types of flooring applied over remedial product.
3. Test reports indicating compliance with specified performance requirements, performed by nationally recognized independent testing agency.
4. Manufacturer's installation instructions.
5. Specimen Warranty: Copy of warranty to be issued by coating manufacturer and certificate of underwriter's coverage of warranty.

D. Testing Agency's Report:
1. Description of areas tested; include floor plans and photographs if helpful.
2. Summary of conditions encountered.
3. Moisture and alkalinity (pH) test reports.
4. Copies of specified test methods.
5. Recommendations for remediation of unsatisfactory surfaces.
6. Product data for recommended remedial coating.
7. Certificate: Include certification of accuracy by authorized official of testing agency.
8. Submit report to Architect/Engineer.
9. Submit report not more than two business days after conclusion of testing.

E. Adhesive Bond and Compatibility Test Report.

F. Copy of RFCI (RWP).

1.07 QUALITY ASSURANCE

A. Moisture and alkalinity (pH) testing shall be performed by an independent testing agency employed and paid by Contractor.

B. Contractor may perform adhesive and bond test with Contractor's own personnel or hire a testing agency.

C. Testing Agency Qualifications: Independent testing agency experienced in the types of testing specified.
1. Submit evidence of experience consisting of at least 3 test reports of the type required, with project Owner's project contact information.

D. Contractor's Responsibility Relating to Independent Agency Testing:
1. Procure the testing agency and submit testing agency's qualifications for Owner and Architect/Engineer approval.
2. Provide access for and cooperate with testing agency.
3. Confirm date of start of testing at least 10 days prior to actual start.
4. Allow at least 4 business days on site for testing agency activities.
5. Achieve and maintain specified ambient conditions.
6. Notify Owner and Architect/Engineer when specified ambient conditions have been achieved and when testing will start.

E. Remedial Coating Installer Qualifications: Company specializing in performing work of the type specified in this section, trained by or employed by coating manufacturer, and able to provide at least 3 project references showing at least 3 years' experience installing moisture emission coatings.

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1.08 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, handle, and protect products in accordance with manufacturer's instructions and recommendations.

B. Deliver materials in manufacturer's packaging; include installation instructions.

C. Keep materials from freezing.

1.09 FIELD CONDITIONS

A. Maintain ambient temperature in spaces where concrete testing is being performed, and for at least 48 hours prior to testing, at not less than 65 degrees F or more than 85 degrees F.

B. Maintain relative humidity in spaces where concrete testing is being performed, and for at least 48 hours prior to testing, at not less than 40 percent and not more than 60 percent.

PART 2 PRODUCTS

2.01 MATERIALS

A. Patching Compound: Floor covering manufacturer's recommended product, suitable for conditions, and compatible with adhesive and floor covering. In the absence of any recommendation from flooring manufacturer, provide a product with the following characteristics:
   1. Cementitious moisture-, mildew-, and alkali-resistant compound, compatible with floor, floor covering, and floor covering adhesive, and capable of being feathered to nothing at edges.
   2. Latex or polyvinyl acetate additions are permitted; gypsum content is prohibited.
   3. Compressive Strength: 3000 psi, minimum, after 28 days, when tested in accordance with ASTM C109/C109M or ASTM C472, whichever is appropriate.

B. Alternate Flooring Adhesive: Floor covering manufacturer's recommended product, suitable for the moisture and pH conditions present; low-VOC. In the absence of any recommendation from flooring manufacturer, provide a product recommended by adhesive manufacturer as suitable for substrate and floor covering and for conditions present.

C. Remedial Floor Coating: Single- or multi-layer coating or coating/overlay combination intended by its manufacturer to resist water vapor transmission to degree sufficient to meet flooring manufacturer's emission limits, resistant to the level of alkalinity (pH) found, and suitable for adhesion of flooring without further treatment.
   1. Thickness: As required for application and in accordance with manufacturer's installation instructions.
   2. Use product recommended by testing agency.

PART 3 EXECUTION

3.01 CONCRETE SLAB PREPARATION

A. Follow recommendations of testing agency.

B. Perform following operations in the order indicated:
   1. Existing concrete slabs (on-grade and elevated) with existing floor coverings:
      a. Visual observation of existing floor covering, for adhesion, water damage, alkaline deposits, and other defects.

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b. Removal of existing floor covering.
2. Existing concrete slabs with coatings or penetrating sealers/hardeners/dustproofers:
   a. Do not attempt to remove coating or penetrating material.
   b. Do not abrade surface.
3. Preliminary cleaning.
4. Specified remediation, if required.
5. Patching, smoothing, and leveling, as required.
6. Other preparation specified.
7. Adhesive bond and compatibility test.
8. Protection.

C. Remediations:
1. Active Water Leaks or Continuing Moisture Migration to Surface of Slab: Correct this condition before doing any other remediation; re-test after correction.
2. Excessive Moisture Emission or Relative Humidity: If an adhesive that is resistant to the level of moisture present is available and acceptable to flooring manufacturer, use that adhesive for installation of the flooring; if not, apply remedial floor coating or remedial sheet membrane over entire suspect floor area.
3. Excessive Alkalinity (pH): If remedial floor coating is necessary to address excessive moisture, no additional remediation is required; if not, if an adhesive that is resistant to the level present is available and acceptable to the flooring manufacturer, use that adhesive for installation of the flooring; otherwise, apply a skim coat of specified patching compound over entire suspect floor area.

3.02 REMOVAL OF EXISTING FLOOR COVERINGS

A. Comply with local, State, and federal regulations and recommendations of RFCI (RWP), as applicable to floor covering being removed.

B. Dispose of removed materials in accordance with local, State, and federal regulations and as specified.

3.03 PRELIMINARY CLEANING

A. Clean floors of dust, solvents, paint, wax, oil, grease, asphalt, residual adhesive, adhesive removers, film-forming curing compounds, sealing compounds, alkaline salts, excessive laitance, mold, mildew, and other materials that might prevent adhesive bond.

B. Do not use solvents or other chemicals for cleaning.

3.04 PREPARATION

A. See individual floor covering section(s) for additional requirements.

B. Comply with recommendations of testing agency.

C. Comply with requirements and recommendations of floor covering manufacturer.

D. Fill and smooth surface cracks, grooves, depressions, control joints and other non-moving joints, and other irregularities with patching compound.

E. Do not fill expansion joints, isolation joints, or other moving joints.

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3.05 ADHESIVE BOND AND COMPATIBILITY TESTING

A. Comply with requirements and recommendations of floor covering manufacturer.

3.06 APPLICATION OF REMEDIAL FLOOR COATING

A. Comply with requirements and recommendations of coating manufacturer.

3.07 PROTECTION

A. Cover prepared floors with building paper or other durable covering.

END OF SECTION

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SECTION 09 21 16
GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Metal stud wall framing.

B. Metal channel ceiling framing.

C. Acoustic insulation.

D. Gypsum sheathing.

E. Cementitious backing board.

F. Gypsum wallboard.

G. Joint treatment and accessories.

1.02 RELATED REQUIREMENTS

A. Section 06 10 00 - Rough Carpentry: Wood blocking product and execution requirements.

B. Section 07 92 00 - Joint Sealants: Sealing acoustical gaps in construction other than gypsum board or plaster work.

1.03 REFERENCE STANDARDS

A. AISI S100 - North American Specification for the Design of Cold-Formed Steel Structural Members 2016, with Supplement (2020).

B. AISI S220 - North American Standard for Cold-Formed Steel Nonstructural Framing 2020.

C. ANSI A108.11 - American National Standard Specifications for Interior Installation of Cementitious Backer Units 2018.

D. ANSI A118.9 - American National Standard Specifications for Test Methods and Specifications for Cementitious Backer Units 2019.

E. ASTM A36/A36M - Standard Specification for Carbon Structural Steel 2019.

F. AISI SG02-1 - North American Specification for the Design of Cold-Formed Steel Structural Members; American Iron and Steel Institute; 2001 with 2004 supplement. (replaced SG-971)

G. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2022.

H. ASTM A1003/A1003M - Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members 2015.

I. ASTM C475/C475M - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board 2017 (Reapproved 2022).

J. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board 2020.

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K. ASTM C954 - Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness 2022.

L. ASTM C1047 - Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base 2019.

M. ASTM C1325 - Standard Specification for Fiber-Mat Reinforced Cementitious Backer Units 2022.

N. ASTM C1396/C1396M - Standard Specification for Gypsum Board 2017.

O. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber 2021.

P. GA-216 - Application and Finishing of Gypsum Panel Products 2021.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data:
   1. Provide manufacturer's data on partition head to structure connectors, showing compliance with requirements.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing work of the type specified and with at least five years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Store gypsum products and accessories indoors and keep above freezing. Elevate boards above floor, on nonwicking supports, in accordance with manufacturer's recommendations.

B. Store metal products to prevent corrosion.

PART 2 PRODUCTS

2.01 GYPSUM BOARD ASSEMBLIES

A. Provide completed assemblies complying with ASTM C840 and GA-216.

2.02 METAL FRAMING MATERIALS

A. Manufacturers - Metal Framing, Connectors, and Accessories:
   1. ClarkDietrich Building Systems: www.clarkdietrich.com.
   2. Marino\WARE: www.marinoware.com.
   3. Steel Construction Systems: www.steelconsystems.com.
   4. The Steel Network, Inc: www.steelnetwork.com.
   5. Super Stud Building Products, Inc: www.buysuperstud.com.
   6. Substitutions: See Section 01 60 00 - Product Requirements.

B. Non-Loadbearing Framing System Components: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/240 at 5 psf.

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1. Studs: C-shaped with ribbed webs, and flanges with rolled edge stiffeners.
   a. Products:
      1) ClarkDietrich Building Systems; ProSTUD or TRAKLOC Drywall Framing Systems: www.clarkdietrich.com.
      2) Marino\WARE; ViperStud Drywall Framing System: www.marinoware.com.
      3) Steel Construction Systems; Supreme Framing System: www.steelconsystems.com.
      4) The Steel Network, Inc.; PrimeWall or PrimeWall EQ framing systems: www.steelnetwork.com.
      5) Super Stud Building Products, Inc.; The EDGE Steel Framing System: www.buysuperstud.com.
      6) Substitutions: See Section 01 60 00 - Product Requirements.
2. Ceiling Channels: C-shaped.
3. Furring Members: Zee-shaped sections, minimum depth of 2 inch.
   a. Products:
      1) MBA Building Supplies; MBA Z-Furring: www.mbastuds.com/#sle.
      2) Substitutions: See Section 01 60 00 - Product Requirements.

C. Partition Head to Structure Connections: Provide mechanical anchorage devices that accommodate deflection and prevent rotation of studs while maintaining structural performance of partition.
   1. Structural Performance: Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated in accordance with AISI S100.
   2. Material: ASTM A653/A653M steel sheet, SS Grade 50/340, with G60/Z180 hot-dipped galvanized coating.
   3. Provide mechanical anchorage devices as described above that accommodate deflection while maintaining the fire-resistance rating of the wall assembly.

D. Non-structural Framing Accessories:
   1. Partial Height Wall Framing Support: Provides stud reinforcement and anchored connection to floor.
      a. Materials: ASTM A36/A36M formed sheet steel support member with factory-welded ASTM A1003/A1003M steel plate base.
      b. Height: 23-3/4 inches, 35-3/4 inches, and 47-3/4 inches.
      c. Products:
         1) ClarkDietrich; Pony Wall (PW): www.clarkdietrich.com.
         2) Substitutions: See Section 01 60 00 - Product Requirements.

E. Grid Suspension Systems: Steel grid system of main tees and support bars connected to structure using hanging wire.
   1. Products:
      a. USG Corporation; Drywall Suspension System: www.usg.com.
      b. Substitutions: See Section 01 60 00 - Product Requirements.

2.03 BOARD MATERIALS

A. Manufacturers - Gypsum-Based Board:
   1. American Gypsum Company: www.americangypsum.com.
   2. CertainTeed Corporation: www.certainteed.com.
   3. Georgia-Pacific Gypsum: www.gpgypsum.com.

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4. National Gypsum Company: www.nationalgypsum.com/.
5. USG Corporation: www.usg.com.
6. Substitutions: See Section 01 60 00 - Product Requirements.

B. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
   1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
   2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
      a. Mold resistant board is required at all locations.
   3. Thickness:
      a. Vertical Surfaces: 5/8 inch.
      b. Ceilings: 5/8 inch.
   4. Mold-Resistant, Paper-Faced Products:
      a. American Gypsum Company; M-Bloc Type X: www.americangypsum.com.
      b. American Gypsum Company; M-Bloc Type C: www.americangypsum.com.
      c. CertainTeed Corporation; M2Tech 5/8" Type X Moisture & Mold Resistant Drywall: www.certainteed.com.
      d. Georgia-Pacific Gypsum; ToughRock Fireguard X Mold-Guard: www.gpgypsum.com.
      e. National Gypsum Company; Gold Bond XP Gypsum Board: www.nationalgypsum.com.
      f. USG Corporation; USG Sheetrock Brand EcoSmart Panels Mold Tough Firecode X: www.usg.com.
      g. Substitutions: See Section 01 60 00 - Product Requirements.

C. Backing Board For Vertical Tiled Surfaces:
   1. Application: Surfaces behind tile in wet and non-wet areas, including, but not limited to, restrooms.
   2. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
   3. ANSI Cement-Based Board: Non-gypsum-based; aggregated Portland cement panels with glass fiber mesh embedded in front and back surfaces complying with ANSI A118.9 or ASTM C1325.
      a. Thickness: 1/2 inch, minimum.
      b. Products:

2.04 GYPSUM WALLBOARD ACCESSORIES

A. Acoustic Insulation: ASTM C665; preformed glass fiber, friction fit type, unfaced. Thickness: 3 inch unless indicated otherwise on the Drawings.

B. Acoustic Sealant: Acrylic emulsion latex or water-based elastomeric sealant; do not use solvent-based non-curing butyl sealant.
   1. Products:
      a. Franklin International, Inc; Titebond GREENchoice Professional Acoustical Smoke and Sound Sealant: www.titebond.com.
      b. Liquid Nails, a brand of PPG Architectural Coatings: www.liquidnails.com.
      c. Specified Technologies Inc; Smoke N Sound Acoustical Sealant: www.stifirestop.com.
      d. Substitutions: See Section 01 60 00 - Product Requirements.

C. Finishing Accessories: ASTM C1047, paper-faced galvanized steel, unless noted otherwise.
   1. Types: As detailed or required for finished appearance.

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2. Special Shapes: In addition to conventional corner bead and control joints, provide U-bead at exposed panel edges.
3. Manufacturers: As for framing materials.

D. Beads, Joint Accessories, and Other Trim: ASTM C1047, rigid plastic or galvanized steel, unless noted otherwise.

E. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.
1. Tape: 2 inch wide, coated glass fiber tape or creased paper tape for joints and corners, except as otherwise indicated.
2. Joint Compound: Setting type, field-mixed.

F. High Build Drywall Surfacer: Vinyl acrylic latex-based coating for spray application, designed to take the place of skim coating and separate paint primer in achieving Level 5 finish.

G. Screws for Fastening of Gypsum Panel Products to Steel Members from 0.033 to 0.112 inch in Thickness: ASTM C954; steel drill screws, corrosion-resistant.

H. Anchorage to Substrate: Tie wire, nails, screws, and other metal supports, of type and size to suit application; to rigidly secure materials in place.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that project conditions are appropriate for work of this section to commence.

3.02 FRAMING INSTALLATION

A. Metal Framing: Install in accordance with AISI S220 and manufacturer's instructions.

B. Suspended Ceilings and Soffits: Space framing and furring members as indicated.
1. Level ceiling system to a tolerance of 1/1200.
2. Laterally brace entire suspension system.
3. Install bracing as required at exterior locations to resist wind uplift.

C. Studs: Space studs at 16 inches on center.
1. Extend partition framing to structure where indicated and to ceiling in other locations.
2. Partitions Terminating at Ceiling: Attach ceiling runner securely to ceiling track in accordance with manufacturer's instructions.
3. Partitions Terminating at Structure: Attach top runner to structure, maintain clearance between top of studs and structure, and connect studs to track using specified mechanical devices in accordance with manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.

D. Blocking: Install wood blocking for support of:
1. Framed openings.
2. Wall-mounted cabinets.
3. Plumbing fixtures.
4. Toilet partitions.
5. Toilet accessories.
6. Wall-mounted door hardware.

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3.03 ACOUSTIC ACCESSORIES INSTALLATION

A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.

B. Acoustic Sealant: Install in accordance with manufacturer's instructions.
   1. Place continuous bead at perimeter of each layer of gypsum board.
   2. Seal around all penetrations by conduit, pipe, ducts, rough-in boxes, and structural and supporting elements, except where firestopping is provided.

3.04 BOARD INSTALLATION

A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.

B. Single-Layer Nonrated: Install gypsum board in most economical direction, with ends and edges occurring over firm bearing.
   1. Exception: Tapered edges to receive joint treatment at right angles to framing.

C. Cementitious Backing Board: Install over steel framing members and plywood substrate where indicated, in accordance with ANSI A108.11 and manufacturer's instructions.

D. Installation on Metal Framing: Use screws for attachment of gypsum board except face layer of nonrated double-layer assemblies, which may be installed by means of adhesive lamination.

3.05 INSTALLATION OF TRIM AND ACCESSORIES

A. Control Joints: Place control joints consistent with lines of building spaces and as indicated.
   1. Not more than 30 feet apart on walls and ceilings over 50 feet long.

B. Corner Beads: Install at external corners, using longest practical lengths.

C. Edge Trim: Install at locations where gypsum board abuts dissimilar materials.

3.06 JOINT TREATMENT

A. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
   1. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.
   2. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
   3. Level 3: Walls to receive textured wall finish.
   4. Level 2: In utility areas, behind cabinetry, and on backing board to receive tile finish.
   5. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.

B. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
   1. Feather coats of joint compound so that camber is maximum 1/32 inch.
   2. Taping, filling, and sanding are not required at base layer of double-layer applications.

C. Where Level 5 finish is indicated, spray apply high build drywall surfacer over entire surface after joints have been properly treated; achieve a flat and tool mark-free finish.

D. Fill and finish joints and corners of cementitious backing board as recommended by manufacturer.

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3.07 TOLERANCES

A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet in any direction.

3.08 PROTECTION

A. Protect installed gypsum board assemblies from subsequent construction operations.

END OF SECTION

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SECTION 09 30 00
TILING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Tile for wall applications.

B. Non-ceramic trim.

1.02 RELATED REQUIREMENTS

A. Section 07 92 00 - Joint Sealants: Sealing joints between tile work and adjacent construction and fixtures.

B. Section 09 21 16 - Gypsum Board Assemblies: Tile backer board.

1.03 REFERENCE STANDARDS

A. ANSI A108.1a - American National Standard Specifications for Installation of Ceramic Tile in the Wet-Set Method, with Portland Cement Mortar 2017.

B. ANSI A108.1b - American National Standard Specifications for Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex-Portland Cement Mortar 2017.

C. ANSI A108.1c - Contractor's Option: Installation of Ceramic Tile in the Wet-Set Method with Portland Cement Mortar or Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex-Portland Cement Mortar 1999 (Reaffirmed 2021).

D. ANSI A108.2 - American National Standard General Requirements: Materials, Environmental and Workmanship 2019.

E. ANSI A108.4 - American National Standard Specifications for Installation of Ceramic Tile with Organic Adhesive or Water Cleanable Tile-Setting Epoxy Adhesive 2019.

F. ANSI A108.5 - American National Standard Specifications for Installation of Ceramic Tile with Dry-Set Portland Cement Mortar or Latex-Portland Cement Mortar 2021.

G. ANSI A108.6 - American National Standard Specifications for Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grout Epoxy 1999 (Reaffirmed 2019).

H. ANSI A108.8 - American National Standard Specifications for Installation of Ceramic Tile with Chemical Resistant Furan Resin Mortar and Grout 1999 (Reaffirmed 2019).

I. ANSI A108.9 - American National Standard Specifications for Installation of Ceramic Tile with Modified Epoxy Emulsion Mortar/Grout 1999 (Reaffirmed 2019).

J. ANSI A108.10 - American National Standard Specifications for Installation of Grout in Tilework 2017.

K. ANSI A108.11 - American National Standard Specifications for Interior Installation of Cementitious Backer Units 2018.

L. ANSI A108.12 - American National Standard for Installation of Ceramic Tile with EGP (Exterior Glue Plywood) Latex-Portland Cement Mortar 1999 (Reaffirmed 2019).

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M. ANSI A108.13 - American National Standard for Installation of Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone 2005 (Reaffirmed 2021).

N. ANSI A108.19 - American National Standard Specifications for Interior Installation of Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs by the Thin-Bed Method Bonded with Modified Dry-Set Cement Mortar or Improved Modified Dry-Set Cement Mortar 2020.

O. ANSI A108.20 - American National Standard Specifications for Exterior Installation of Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs 2020.

P. ANSI A118.7 - American National Standard Specifications for High Performance Cement Grouts for Tile Installation 2019.

Q. ANSI A118.15 - American National Standard Specifications for Improved Modified Dry-Set Cement Mortar 2019.

R. ANSI A137.1 - American National Standard Specifications for Ceramic Tile 2022.

S. ASTM C373 - Standard Test Methods for Determination of Water Absorption and Associated Properties by Vacuum Method for Pressed Ceramic Tiles and Glass Tiles and Boil Method for Extruded Ceramic Tiles and Non-tile Fired Ceramic Whiteware Products 2018 (Reapproved 2023).

T. TCNA (HB) - Handbook for Ceramic, Glass, and Stone Tile Installation 2022.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene a preinstallation meeting one week before starting work of this section; require attendance by affected installers.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.

C. Shop Drawings: Indicate tile layout, patterns, color arrangement, perimeter conditions, junctions with dissimilar materials, control and expansion joints, thresholds, ceramic accessories, setting details, and trim components.

D. Samples for Selection: Manufacturer's color line sample boards/books.

E. Samples for Verification: Mount selected tile and apply grout on two plywood panels, minimum 18 x 18 inches in size illustrating pattern, color variations, and grout joint size variations.

F. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

G. Master Grade Certificate: Submit for each type of tile, signed by the tile manufacturer and tile installer.

H. Installer's Qualification Statement:
   1. Submit documentation of National Tile Contractors Association (NTCA) or Tile Contractors' Association of America (TCAA) accreditation.
   2. Submit documentation of completion of apprenticeship and certification programs.

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I. Maintenance Data: Include recommended cleaning methods, cleaning materials, and stain removal methods.

J. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Extra Tile: 10 square feet of each size, color, and surface finish combination.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this section, with minimum five years of documented experience.

B. Installer Qualifications:
   1. Company specializing in performing tile installation, with minimum of five years of documented experience.
      a. Accredited Five-Star member of the National Tile Contractors Association (NTCA) or Trowel of Excellence member of the Tile Contractors' Association of America (TCAA).
   2. Installer Certification:
      a. Ceramic Tile Education Foundation (CTEF): Certified Tile Installer (CTI).
      b. Apprenticeship Program: Installer has achieved Journeyworker status through an apprenticeship from the International Union of Bricklayers and Allied Craftworkers (IUBAC) or a U.S. Department of Labor (DOL)-recognized program.
      c. Advanced Certifications for Tile Installers (ACT): Certification in the installation of membranes, mortar bed (mud) floors, mortar (mud) walls, shower receptors, large format tile, gauged porcelain tile/panels/slabs, and grouts.
      d. International Masonry Training and Education Foundation (IMTEF): Supervisor Certification Program (SCP).

1.07 DELIVERY, STORAGE, AND HANDLING

A. Protect adhesives from freezing or overheating in accordance with manufacturer's instructions.

1.08 FIELD CONDITIONS

A. Do not install solvent-based products in an unventilated environment.

B. Maintain ambient and substrate temperature above 50 degrees F and below 100 degrees F during installation and curing of setting materials.

PART 2 PRODUCTS

2.01 TILE

A. Manufacturers:
   1. Crossville, Inc: www.crossvilleinc.com.
   2. Substitutions: Not permitted.

B. Porcelain Tile, Type TW1: ANSI A137.1, standard grade.
   1. Moisture Absorption: 0 to 0.5 percent as tested in accordance with ASTM C373.
   2. Size: 12" by 24" inch, nominal.
   3. Edges: Square.
   4. Surface Finish: Unglazed.

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5. Color(s): As shown on the drawings.
6. Pattern: As shown on the drawings.
7. Products: As shown on the drawings.
    a. Substitutions: Not permitted.

2.02 TRIM AND ACCESSORIES

A. Non-Ceramic Trim: Brushed stainless steel or satin natural anodized extruded aluminum, style and dimensions to suit application, for setting using tile mortar or adhesive.
    1. Applications:
        a. Open edges of wall tile; Coved.
    2. Manufacturers:
        a. Schluter-Systems: www.schluter.com.
        b. Substitutions: Not permitted.

2.03 SETTING MATERIALS

A. Provide setting and grout materials from same manufacturer.

B. Manufacturers:
    1. ARDEX Engineered Cements: www.ardexamericas.com.
    2. Bostik Inc: www.bostik-us.com.
    3. Custom Building Products: www.custombuildingproducts.com.
    4. H.B. Fuller Construction Products, Inc: www.tecspecialty.com.
    5. LATICRETE International, Inc: www.laticrete.com.
    6. ProSpec, an Oldcastle brand: www.prospec.com.
    7. Substitutions: Not permitted.

C. Improved Latex-Portland Cement Mortar Bond Coat: ANSI A118.15.
    1. Applications: Use this type of bond coat where indicated, and where no other type of bond coat is indicated.

2.04 GROUTS

A. Manufacturers:
    1. Bostik Inc: www.bostik-us.com.
    2. Custom Building Products: www.custombuildingproducts.com/#sle.
    3. LATICRETE International, Inc; LATICRETE PERMACOLOR Grout: www.laticrete.com.

B. High Performance Polymer Modified Grout: ANSI A118.7 polymer modified cement grout.
    1. Applications: Use this type of grout where indicated and where no other type of grout is indicated.
    2. Use sanded grout for joints 1/8 inch wide and larger; use unsanded grout for joints less than 1/8 inch wide.
    3. Color(s): As indicated on drawings.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that subfloor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive tile.

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B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive tile.

C. Verify that required wall-mounted utilities are in correct location.

3.02 PREPARATION

A. Protect surrounding work from damage.

B. Vacuum clean surfaces and damp clean.

C. Seal substrate surface cracks with filler. Level existing substrate surfaces to acceptable flatness tolerances.

D. Install backer board in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of setting material to a feather edge.

3.03 INSTALLATION - GENERAL

A. Install tile and thresholds and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.20, manufacturer's instructions, and TCNA (HB) recommendations.

B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings.

C. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.

D. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make grout joints without voids, cracks, excess mortar or excess grout, or too little grout.

E. Form internal angles square and external angles bullnosed.

F. Install non-ceramic trim in accordance with manufacturer's instructions.

G. Sound tile after setting. Replace hollow sounding units.

H. Keep control and expansion joints free of mortar, grout, and adhesive.

I. Prior to grouting, allow installation to completely cure; minimum of 48 hours.

J. Grout tile joints unless otherwise indicated. Use standard grout unless otherwise indicated.

K. At changes in plane and tile-to-tile control joints, use tile sealant instead of grout, with either bond breaker tape or backer rod as appropriate to prevent three-sided bonding.

L. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.

3.04 INSTALLATION - WALL TILE

A. Over gypsum wallboard on wood or metal studs install in accordance with TCNA (HB) Method W243, thin-set with dry-set or latex-Portland cement bond coat, unless otherwise indicated.

3.05 CLEANING

A. Clean tile and grout surfaces.

END OF SECTION

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SECTION 09 51 00
ACOUSTICAL CEILINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Suspended metal grid ceiling system.

B. Acoustical units.

1.02 RELATED REQUIREMENTS

A. Section 21 13 00 - Fire-Suppression Sprinkler Systems: Sprinkler heads in ceiling system.

B. Section 23 37 00-Air Outlets and Inlets: Air diffusion devices in ceiling.

1.03 REFERENCE STANDARDS

A. ASTM C635/C635M - Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings 2022.

B. ASTM C636/C636M - Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels 2019.

C. ASTM E580/E580M - Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions 2022.

D. ASTM E1264 - Standard Classification for Acoustical Ceiling Products 2022.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Sequence work to ensure acoustical ceilings are not installed until building is enclosed, sufficient heat is provided, dust generating activities have terminated, and overhead work is completed, tested, and approved.

B. Do not install acoustical units until after interior wet work is dry.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on suspension system components and acoustical units.

C. Samples: Submit two samples 6 x 6 inch in size illustrating material and finish of acoustical units.

D. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Extra Acoustical Units: Quantity equal to 5 percent of total installed.

1.06 QUALITY ASSURANCE

A. Suspension System Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum ten years experience.

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B. Acoustical Unit Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum ten years experience.

1.07 FIELD CONDITIONS

A. Maintain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Acoustic Tiles:
   1. Armstrong World Industries, Inc; Ultima, Beveled Tegular #1911: www.armstrong.com.
   2. CertainTeed Corporation: www.certainteed.com.
   3. USG: www.usg.com.
   4. Substitutions: See Section 01 60 00 - Product Requirements.

B. Suspension Systems:
   1. Armstrong World Industries, Inc: www.armstrong.com.
   2. CertainTeed Corporation: www.certainteed.com.
   3. USG: www.usg.com.
   4. Substitutions: Not permitted.

2.02 ACOUSTICAL UNITS

A. Acoustical Tiles, Type ACT1: Painted mineral fiber, with the following characteristics:
   1. Classification: ASTM E1264 Type IV.
   2. Size: 24 by 24 inches.
   3. Thickness: 3/4 inch.
   4. Light Reflectance: 88%
   5. NRC: 75
   6. Ceiling Attenuation Class (CAC): 35
   7. Panel Edge: Beveled Tegular 15/16".
   8. Suspension System: Exposed grid.

2.03 SUSPENSION SYSTEM(S)

A. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.

B. Metal Suspension Systems - General: Complying with ASTM C635/C635M; die cut and interlocking components, with perimeter moldings, hold down clips, stabilizer bars, clips, and splices as required.

C. Exposed Suspension System, Type SS1: Hot-dipped galvanized steel grid and cap.
   1. Structural Classification: Intermediate-duty, when tested in accordance with ASTM C635/C635M.
   2. Profile: Tee; 15/16 inch face width.
   3. Finish: Baked enamel.

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4. Color: White.

2.04 ACCESSORIES

A. Support Channels and Hangers: Galvanized steel; size and type to suit application and ceiling system flatness requirement specified.

B. Hanger Wire: 12 gauge, 0.08 inch galvanized steel wire.

C. Perimeter Moldings: Same metal and finish as grid.
   1. Angle Molding: L-shaped, for mounting at same elevation as face of grid.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that layout of hangers will not interfere with other work.

3.02 PREPARATION

A. Install after major above-ceiling work is complete.

B. Coordinate the location of hangers with other work.

3.03 INSTALLATION - SUSPENSION SYSTEM

A. Install suspension system in accordance with ASTM C636/C636M, ASTM E580/E580M, ASTM C636/C636M, ASTM E580/E580M, ASTM C636/C636M, and ASTM E580/E580M and as supplemented in this section.

B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.

C. Locate system on room axis according to reflected plan.

D. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
   1. Use longest practical lengths.

E. Suspension System, Non-Seismic: Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.

F. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.

G. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.

H. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.

I. Do not eccentrically load system or induce rotation of runners.

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3.04 INSTALLATION - ACOUSTICAL UNITS

A. Install acoustical units in accordance with manufacturer's instructions.

B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.

C. Fit border trim neatly against abutting surfaces.

D. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.

E. Cutting Acoustical Units:
   1. Make field cut edges of same profile as factory edges.

F. Where round obstructions occur, provide preformed closures to match perimeter molding.

G. Install hold-down clips on each panel to retain panels tight to grid system; comply with fire rating requirements.

3.05 TOLERANCES

A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.

B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2 degrees.

END OF SECTION

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SECTION 09 65 00
RESILIENT FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Resilient tile flooring.

B. Resilient base.

C. Installation accessories.

1.02 RELATED REQUIREMENTS

A. Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions.

B. Section 09 05 61 - Common Work Results for Flooring Preparation: Removal of existing floor coverings, cleaning, and preparation.

1.03 REFERENCE STANDARDS

A. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile 2004 (Reapproved 2018).

B. ASTM F1861 - Standard Specification for Resilient Wall Base 2021.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

C. Shop Drawings: Indicate seaming plans and floor patterns.

D. Selection Samples: Submit manufacturer's complete set of color samples for Architect/Engineer's initial selection.

E. Verification Samples: Submit two samples, 12 by 12 inch in size illustrating color and pattern for each resilient flooring product specified.

F. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Extra Flooring Material: 100 square feet of each type and color.
   3. Extra Wall Base: 100 linear feet of each type and color.
   4. Extra Stair Materials: Quantity equivalent to 5 percent of each type and color.

1.05 QUALITY ASSURANCE

1.06 DELIVERY, STORAGE, AND HANDLING

A. Store all materials off of the floor in an acclimatized, weather-tight space.

B. Protect rolled sheet materials from damage by storing on end.

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1.07 FIELD CONDITIONS

A. Maintain temperature in storage area between 55 degrees F and 90 degrees F.

B. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

PART 2 PRODUCTS

2.01 TILE FLOORING

A. Vinyl Composition Tile - VCTA: Homogeneous, with color extending throughout thickness.
   1. Manufacturers:
      a. Armstrong Flooring, Inc; Standard Execelon Imperial Texture: www.armstrongflooring.com.
      b. Johnsonite, a Tarkett Company: www.johnsonite.com.
   2. Minimum Requirements: Comply with ASTM F1066, of Class corresponding to type specified.
   3. Size: 12 by 12 inch.
   4. Thickness: 0.125 inch.
   5. Pattern: To match existing lobby..
   6. Color: As indicated on drawings.

B. Luxary Vinyl Tile - LVTA: Homogeneous, with color extending throughout thickness.
   1. Pattern: As indicated on drawings..
   2. Color: As indicated on drawings.

2.02 RESILIENT BASE

A. Resilient Base - VBA: ASTM F1861, Type TS, rubber, vulcanized thermoset; style as scheduled.
   1. Height: 4 inches.
   2. Thickness: 0.125 inch.
   3. Finish: Satin.
   4. Length: Roll.
   5. Color: As indicated on drawings.

2.03 ACCESSORIES

A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.

B. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.

C. Moldings, Transition and Edge Strips: Metal.

D. Filler for Coved Base: Plastic.

E. Sealer and Wax: Types recommended by flooring manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.

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B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.

C. Verify that concrete sub-floor surfaces are dry enough and ready for resilient flooring installation by testing for moisture emission rate and alkalinity in accordance with ASTM F710; obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Remove subfloor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with subfloor filler to achieve smooth, flat, hard surface.

B. Prohibit traffic until filler is fully cured.

C. Clean substrate.

3.03 INSTALLATION - GENERAL

A. Starting installation constitutes acceptance of subfloor conditions.

B. Install in accordance with manufacturer's written instructions.

C. Adhesive-Applied Installation:
   1. Spread only enough adhesive to permit installation of materials before initial set.
   2. Fit joints and butt seams tightly.
   3. Set flooring in place, press with heavy roller to attain full adhesion.

D. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.

E. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.

F. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

3.04 INSTALLATION - TILE FLOORING

A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.

3.05 INSTALLATION - RESILIENT BASE

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.

B. Miter internal corners. At external corners, 'V' cut back of base strip to 2/3 of its thickness and fold. At exposed ends, use premolded units.

C. Install base on solid backing. Bond tightly to wall and floor surfaces.

D. Scribe and fit to door frames and other interruptions.

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3.06 CLEANING

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Clean in accordance with manufacturer's written instructions.

3.07 PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION

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SECTION 09 68 13
TILE CARPETING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Carpet tile, fully adhered.

1.02 RELATED REQUIREMENTS

A. Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions.

B. Section 09 05 61 - Common Work Results for Flooring Preparation: Removal of existing floor coverings, cleaning, and preparation.

1.03 REFERENCE STANDARDS

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.

C. Shop Drawings: Indicate layout of joints.

D. Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.

E. Manufacturer's Installation Instructions: Indicate special procedures.

F. Operation and Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.

G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. Extra Carpet Tiles: Quantity equal to 5 percent of total installed of each color and pattern installed.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing specified carpet tile with minimum three years documented experience.

B. Installer Qualifications: Company specializing in installing carpet tile with minimum three years documented experience and approved by carpet tile manufacturer.

PART 2 PRODUCTS

2.01 MATERIALS

A. Tile Carpeting, Type CPTA: Tufted, manufactured in one color dye lot.
   1. Tile Size: Refer to Finish Schedule.
   2. Color: Refer to Finish Schedule.
   3. Pattern: Refer to Finish Schedule.

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2.02 ACCESSORIES

A. Edge Strips: Embossed aluminum, color as selected by Architect.

B. Carpet Tile Adhesive: Recommended by carpet tile manufacturer; releasable type.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that subfloor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive carpet tile.

C. Verify that subfloor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to subfloor surfaces.

3.02 PREPARATION

A. Prepare floor substrates for installation of flooring in accordance with Section 09 05 61.

B. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

3.03 INSTALLATION

A. Starting installation constitutes acceptance of subfloor conditions.

B. Install carpet tile in accordance with manufacturer's instructions.

C. Blend carpet from different cartons to ensure minimal variation in color match.

D. Cut carpet tile clean. Fit carpet tight to intersection with vertical surfaces without gaps.

E. Lay carpet tile in square pattern, with pile direction parallel to next unit, set parallel to building lines.

F. Trim carpet tile neatly at walls and around interruptions.

G. Complete installation of edge strips, concealing exposed edges.

3.04 CLEANING

A. Remove excess adhesive without damage, from floor, base, and wall surfaces.

B. Clean and vacuum carpet surfaces.

END OF SECTION

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SECTION 09 91 23
INTERIOR PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation.

B. Field application of paints.

C. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
   1. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
   2. Mechanical and Electrical:
      a. In areas where walls and/or overhead surfaces are scheduled to receive painted finishes, paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, and electrical equipment, unless otherwise indicated.
      b. In all areas, paint shop-primed items.

D. Do Not Paint or Finish the Following Items:
   1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
   2. Items indicated to receive other finishes.
   3. Items indicated to remain unfinished.
   4. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
   5. Floors, unless specifically indicated.
   6. Glass.
   7. Acoustical materials, unless specifically indicated.
   8. Pipes, ducts, and conduits concealed behind wall or ceiling finishes

1.02 RELATED REQUIREMENTS

A. Section 05 50 00 - Metal Fabrications: Shop-primed items.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

1.04 QUALITY ASSURANCE

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

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1.06 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.

B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

C. Provide lighting level of 80 fc measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.

B. Paints:
   1. Behr Process Corporation: www.behr.com/#sle.
   2. PPG Paints: www.ppgpaints.com/#sle.
   3. Sherwin-Williams Company: www.sherwin-williams.com/#sle.

C. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.
   1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
   2. Supply each paint material in quantity required to complete entire project's work from a single production run.
   3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.

B. Volatile Organic Compound (VOC) Content:
   1. Provide paints and finishes that comply with the most stringent requirements specified in the following:
      a. 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
      b. SCAQMD 1113 Rule.
      c. CARB (SCM).
      d. Ozone Transport Commission (OTC) Model Rule, Architectural, Industrial, and Maintenance Coatings; www.otcair.org; specifically:
         1) Opaque, Flat: 50 g/L, maximum.
         2) Opaque, Nonflat: 150 g/L, maximum.
         3) Opaque, High Gloss: 250 g/L, maximum.
      e. Architectural coatings VOC limits of the State in which the Project is located.
   2. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.

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C. Flammability: Comply with applicable code for surface burning characteristics.

D. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect/Engineer from the manufacturer's full line.

E. Colors: To be selected from manufacturer's full range of available colors.
   1. Selection to be made by Architect/Engineer after award of contract.
   2. Allow for minimum of three colors for each system, unless otherwise indicated, without additional cost to Owner.
   3. Extend colors to surface edges; colors may change at any edge as directed by Architect/Engineer.
   4. In finished areas, finish pipes, ducts, conduit, and equipment the same color as the wall/ceiling they are mounted on/under.

2.03 PAINT SYSTEMS - INTERIOR

A. Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board, concrete, concrete masonry units, brick, wood, plaster, uncoated steel, shop primed steel, galvanized steel, and aluminum.
   1. Two top coats and one coat primer.
   2. Top Coat(s): Institutional Low Odor/VOC Interior Latex; MPI #143, 144, 145, 146, 147, or 148.
      a. Products:
         1) Behr Premium Plus Interior Eggshell Enamel [No.2050]. (MPI #145)
         2) Behr Premium Plus Interior Flat [No.1050]. (MPI #143)
         3) Behr Premium Plus Interior Satin Enamel [No.7050]. (MPI #146)
         4) Behr Premium Plus Interior Semi-Gloss Enamel [No.3050]. (MPI #147)
         5) PPG Paints Speedhide Zero Interior Latex, 6-5110 Series, Flat. (MPI #143)
         6) PPG Paints Speedhide Zero Interior Latex, 6-5310 Series, Eggshell.
         7) PPG Paints Speedhide Zero Interior Latex, 6-5410 Series, Satin.
         8) PPG Paints Speedhide Zero Interior Latex, 6-5510 Series, Semi-Gloss. (MPI #147)
         9) Sherwin-Williams ProMar 200 HP Series, Eg-Shel. (MPI #145)
         10) Sherwin-Williams ProMar 200 Zero VOC Interior Latex, Flat.
         11) Sherwin-Williams ProMar 200 Zero VOC Interior Latex, Low Sheen. (MPI #144)
         12) Sherwin-Williams ProMar 200 Zero VOC Interior Latex, Semi-Gloss.
   3. Top Coat Sheen:
      a. Flat: MPI gloss level 1; use this sheen for ceilings and other overhead surfaces.
      b. Eggshell: MPI gloss level 3; use this sheen for gypsum board wall surfaces in all locations, except where noted or specified otherwise..
      c. Satin: MPI gloss level 4; use this sheen for gypsum board wall surfaces in high-traffic spaces such as lobbies, corridors and multi-purpose rooms.
      d. Semi-Gloss: MPI gloss level 5; use this sheen for all concrete and concrete block wall surfaces.
   4. Primer: As recommended by top coat manufacturer for specific substrate.

B. Medium Duty Door/Trim: For surfaces subject to frequent contact by occupants, including metals and wood:
   1. Medium duty applications include doors, door frames, railings, handrails, guardrails, and balustrades.
   2. Two top coats and one coat primer.

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3. Top Coat(s): Interior Epoxy-Modified Latex; MPI #115 or 215.
   a. Products:
      1) PPG Paints Aquapon WB EP Two-Component Waterborne Epoxy Coating, 98E-1/98E-100 Series, Semi-Gloss. (MPI #215)
      2) PPG Paints Aquapon WB EP Two-Component Waterborne Epoxy Coating, 98E-1/98E-98 Series, Gloss. (MPI #115)
      3) Sherwin-Williams Pro Industrial Waterbased Catalyzed Epoxy, Gloss. (MPI #115)
      4) Sherwin-Williams Waterbased Catalyzed Epoxy, Semi-Gloss.
      5) Substitutions: See Section 01 60 00 - Product Requirements
4. Top Coat Sheen:
   a. Semi-Gloss: MPI gloss level 5; use this sheen at all locations.
5. Primer: As recommended by top coat manufacturer for specific substrate.

2.04 PRIMERS

A. Primers: Provide the following unless other primer is required or recommended by manufacturer of top coats.

2.05 ACCESSORY MATERIALS

A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

B. Patching Material: Latex filler.

C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin application of paints and finishes until substrates have been adequately prepared.

B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.

D. Test shop-applied primer for compatibility with subsequent cover materials.

E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces is below the following maximums:
   1. Gypsum Wallboard: 12 percent.
   2. Plaster and Stucco: 12 percent.
   3. Masonry, Concrete, and Concrete Masonry Units: 12 percent.
   4. Interior Wood: 15 percent, measured in accordance with ASTM D4442.

3.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Remove or repair existing paints or finishes that exhibit surface defects.

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D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces or finishing.

E. Seal surfaces that might cause bleed through or staining of topcoat.

F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.

G. Concrete:
   1. Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
   2. Prepare surface as recommended by top coat manufacturer and according to SSPC-SP 13.

H. Masonry:
   1. Remove efflorescence and chalk. Do not coat surfaces if moisture content, alkalinity of surfaces, or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions. Allow to dry.
   2. Prepare surface as recommended by top coat manufacturer.
   3. Clean surfaces with pressurized water. Use pressure range of 600 to 1,500 psi at 6 to 12 inches. Allow to dry.

I. Gypsum Board: Fill minor defects with filler compound. Spot prime defects after repair.

J. Plaster: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high-alkali surfaces.

K. Aluminum: Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.

L. Galvanized Surfaces:

M. Ferrous Metal:
   1. Solvent clean according to SSPC-SP 1.
   2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
   3. Remove rust, loose mill scale, and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 Commercial Blast Cleaning. Protect from corrosion until coated.

N. Wood Surfaces to Receive Opaque Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats. Back prime concealed surfaces before installation.

O. Wood Doors to be Field-Finished: Seal wood door top and bottom edge surfaces with clear sealer.

P. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

3.03 APPLICATION

A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

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B. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".

C. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.

D. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

E. Apply each coat to uniform appearance in thicknesses specified by manufacturer.

F. Dark Colors and Deep Clear Colors: Regardless of number of coats specified, apply as many coats as necessary for complete hide.

G. Sand wood and metal surfaces lightly between coats to achieve required finish.

H. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.

I. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.04 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements, for general requirements for field inspection.

3.05 CLEANING

A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.06 PROTECTION

A. Protect finishes until completion of project.

B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION

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SECTION 10 28 00
TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Commercial toilet accessories.

1.02 RELATED REQUIREMENTS

A. Section 06 10 00 - Rough Carpentry: Concealed supports for accessories, including in wall framing and plates and above ceiling framing.

1.03 REFERENCE STANDARDS

A. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products 2017.

B. ASTM A269/A269M - Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service 2022.

C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2022.

D. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar 2023.

E. ASTM B456 - Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium 2017 (Reapproved 2022).

F. ASTM C1036 - Standard Specification for Flat Glass 2021.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate the work with the placement of internal wall reinforcement, concealed ceiling supports, and reinforcement of toilet partitions to receive anchor attachments.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Commercial Toilet, Shower, and Bath Accessories:
   1. American Specialties, Inc: www.americanspecialties.com/#sle.
   2. Bradley Corporation: www.bradleycorp.com/#sle.
   3. Bobrick Washroom Equipment Inc.: www.bobrick.com.
   4. Substitutions: Section 01 60 00 - Product Requirements.

B. All items to be made by the same manufacturer.

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2.02 MATERIALS

A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
   1. Grind welded joints smooth.
   2. Fabricate units made of metal sheet of seamless sheets with flat surfaces.

B. Keys: Provide 2 keys for each accessory to Owner; master key lockable accessories.

C. Stainless Steel Sheet: ASTM A666, Type 304.

D. Stainless Steel Tubing: ASTM A269/A269M, Grade TP304 or TP316.

E. Galvanized Sheet Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 coating.

F. Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.

G. Adhesive: Two component epoxy type, waterproof.

H. Fasteners, Screws, and Bolts: Hot dip galvanized; tamper-proof; security type.

I. Expansion Shields: Fiber, lead, or rubber as recommended by accessory manufacturer for component and substrate.

2.03 FINISHES

A. Stainless Steel: Satin finish, unless otherwise noted.

B. Chrome/Nickel Plating: ASTM B456, SC 2, polished finish, unless otherwise noted.

C. Galvanizing for Items Other than Sheet: Comply with ASTM A123/A123M; galvanize ferrous metal and fastening devices.

D. Shop Primed Ferrous Metals: Pretreat and clean, spray apply one coat primer and bake.

E. Back paint components where contact is made with building finishes to prevent electrolysis.

2.04 COMMERCIAL TOILET ACCESSORIES

A. As indicated on the Drawings.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify exact location of accessories for installation.

3.02 PREPARATION

A. Deliver inserts and rough-in frames to site for timely installation.

B. Provide templates and rough-in measurements as required.

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3.03 INSTALLATION

A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.

B. Install plumb and level, securely and rigidly anchored to substrate.

C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.
   1. Grab Bars: As indicated on drawings.

D. Mounting Heights and Locations: As required by accessibility regulations and as indicated on drawings.

3.04 SCHEDULE

A. Refer to Enlarged Plan drawings for schedule of toilet accessories.

END OF SECTION

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SECTION 10 44 00
FIRE PROTECTION SPECIALTIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fire extinguishers.

B. Fire extinguisher cabinets.

C. Accessories.

1.02 RELATED REQUIREMENTS

A. Section 06 10 00 - Rough Carpentry: Wood blocking product and execution requirements.

B. Section 09 21 16 - Gypsum Board Assemblies: Roughed-in wall openings.

1.03 REFERENCE STANDARDS

A. FM (AG) - FM Approval Guide Current Edition.

B. NFPA 10 - Standard for Portable Fire Extinguishers 2022.

C. UL (DIR) - Online Certifications Directory Current Edition.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Indicate locations of cabinets and cabinet physical dimensions.

C. Manufacturer's Installation Instructions: Indicate special criteria and wall opening coordination requirements.

D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

E. Maintenance Data: Include test, refill or recharge schedules and re-certification requirements.

1.05 FIELD CONDITIONS

A. Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Fire Extinguishers, Cabinets and Accessories:
   1. Activar Construction Products Group, Inc. - JL Industries: www.activarcpg.com.
   2. Larsen's Manufacturing Co: www.larsensmfg.com.
   3. Nystrom, Inc: www.nystrom.com.
   4. Potter-Roemer: www.potterroemer.com.
   5. Substitutions: See Section 01 60 00 - Product Requirements.

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2.02 FIRE EXTINGUISHERS

A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent.
   1. Provide extinguishers labeled by UL (DIR) or FM (AG) for purpose specified and as indicated.

B. Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge.
   1. Class: A:B:C type.
   2. Size: 10 pound.
   3. Finish: Baked polyester powder coat, red color.

C. Dry Chemical Type Fire Extinguishers: Stainless steel tank, with pressure gauge.
   1. Class: K type.
   2. Size: 1.6 gallons.
   3. Finish: Polished stainless steel.
   4. Temperature range: Minus 20 degrees F to 120 degrees F.

2.03 FIRE EXTINGUISHER CABINETS

A. Cabinet Construction: Non-fire rated.
   1. Formed aluminum; 1/16 inch thick base metal.

B. Cabinet Configuration: Semi-recessed type.
   1. Size to accommodate accessories.
   2. Projected Trim: Returned to wall surface, with 2 1/2 inch projection, and 1 3/4 inch wide face.
   3. Provide cabinet enclosure with right angle inside corners and seams, and with formed perimeter trim and door stiles.

C. Door: 0.036 inch metal thickness, reinforced for flatness and rigidity with nylon catch. Hinge doors for 180 degree opening with butt hinges or continuous piano hinge.
   1. Labeling: Red decal letters; vertical orientation.

D. Door Glazing: Acrylic plastic, clear, 1/8 inch thick, flat shape and set in resilient channel glazing gasket.

E. Cabinet Mounting Hardware: Appropriate to cabinet, with pre-drilled holes for placement of anchors.

F. Finish of Cabinet Exterior Trim and Door: Primed for field paint finish.

G. Finish of Cabinet Interior: White colored enamel.

2.04 ACCESSORIES

A. Extinguisher Brackets: Formed steel, chrome-plated.

B. Graphic Identification: Provide wall-mounted triangular three-dimensional signage above each cabinet and extinguisher location..

C. Cabinet Lettering: “FIRE EXTINGUISHER” decal, or vinyl self-adhering, pre-spaced lettering in accordance with authorities having jurisdiction (AHJ).

D. Inspection/Certification Tags: Acceptable to the authority having jurisdiction.
   1. Expiration Date: Not less than 12 months after date of Substantial Completion.

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2. Provide (1) for each fire extinguisher.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify rough openings for cabinet are correctly sized and located.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install cabinets plumb and level in wall openings, 54 inches from finished floor to top of extinguisher inside cabinet.

C. Secure rigidly in place.

D. Place extinguishers in cabinets.

E. Attach Inspection/Certification tags to extinguishers.

END OF SECTION

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SECTION 12 24 00
WINDOW SHADES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Interior manual roller shades.

B. Interior motorized roller shades.

C. Motor controls.

1.02 RELATED REQUIREMENTS

A. Section 06 10 00 - Rough Carpentry: Concealed wood blocking for attachment of headrail brackets.

1.03 REFERENCE STANDARDS

A. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi 2015, with Editorial Revision (2021).

B. C2C (DIR) - C2C Certified Products Registry; Cradle to Cradle Products Innovation Institute Current Edition.

C. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

D. NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films 2023, with Errata.

E. UL (GGG) - GREENGUARD Gold Certified Products Current Edition.

F. UL 325 - Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems Current Edition, Including All Revisions.

G. WCMA A100.1 - Standard for Safety of Window Covering Products 2022.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Where motorized shades are to be controlled by control systems provided under other sections, coordinate the work with other trades to provide compatible products.
   2. Coordinate the work with other trades to provide rough-in of electrical wiring as required for installation of hardwired motorized shades.

B. Preinstallation Meeting: Convene one week prior to commencing work related to products of this section; require attendance of affected installers.

C. Sequencing:
   1. Do not fabricate shades until field dimensions for each opening have been taken with field conditions in place.
   2. Do not install shades until final surface finishes and painting are complete.

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1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide manufacturer's standard catalog pages and data sheets, including materials, finishes, fabrication details, dimensions, profiles, mounting requirements, and accessories.

C. Shop Drawings: Include shade schedule indicating size, location and keys to details, head, jamb and sill details, mounting dimension requirements for each product and condition, and operation direction.

D. Selection Samples: Include fabric samples in full range of available colors and patterns.
   1. Motorized Shades: Include finish selections for controls.

E. Operation and Maintenance Data: List of all components with part numbers, sources of supply, and operation and maintenance instructions; include copy of shop drawings.

F. Warranty: Submit sample of manufacturer's warranty and documentation of final executed warranty completed in Owner's name and registered with manufacturer.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than five years of documented experience.

B. Installer Qualifications: Company specializing in performing work of this type with minimum 10 years of documented experience with shading systems of similar size and type.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver shades in manufacturer's unopened packaging, labeled to identify each shade for each opening.

B. Handle and store shades in accordance with manufacturer's recommendations.

1.08 FIELD CONDITIONS

A. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.09 WARRANTY

A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

B. Provide manufacturer's warranty from Date of Substantial Completion, covering the following:
   1. Shade Hardware: 10 years.
   2. Electric Motors: 5 years.
   3. Fabric: 10 years.

PART 2 PRODUCTS

2.01 MANUFACTURERS

2.02 ROLLER SHADES

A. General:

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1. Provide shade system components that are easy to remove or adjust without removal of mounted shade brackets.
2. Provide shade system that operates smoothly when shades are raised or lowered.
3. Provide shade system that is Cradle-to-Cradle certified and listed in C2C (DIR).
4. Motorized Shades: Motor system housed inside roller tube, controlling shade movement via motor controls indicated; listed or recognized to UL 325.
   a. Comply with NFPA 70.
   b. Electrical Components: Listed, classified, and labeled as suitable for the purpose intended. Where applicable, system components to be FCC compliant.
   c. Motors: Size and configuration as recommended by manufacturer for the type, size, and arrangement of shades to be operated; integrated into shade operating components and concealed from view; fully compatible with controls to be installed.

B. Roller Shades Alternate # 1 - Basis of Design: MechoShade Systems LLC; Mecho/5 System; www.mechoshade.com/#sle.
   1. Description: Single roller, manually operated fabric window shades.
      a. Drop Position: Regular roll.
      b. Mounting: Recess mounted in ceiling pocket.
      c. Size: As indicated on drawings.
      d. Fabric: As indicated under Shade Fabric article.
   2. Brackets and Mounting Hardware: As recommended by manufacturer for mounting indicated and to accommodate shade fabric roll-up size and weight.
   3. Roller Tubes:
      a. Material: Extruded aluminum.
      b. Size: As recommended by manufacturer; selected for suitability for installation conditions, span, and weight of shades.
      c. Fabric Attachment: Utilize extruded channel in tube to accept vinyl spline welded to fabric edge. Shade band to be removable and replaceable without removing roller tube from brackets or inserting spline from the side of the roller tube.
      d. Capable of being removed and reinstalled without affecting roller shade limit adjustments.
   4. Hembars: Designed to maintain bottom of shade straight and flat.
   5. Clutch Operator: Manufacturer's standard material and design integrated with bracket/brake assembly.
      a. Provide a permanently lubricated brake assembly mounted on an oil-impregnated hub with wrapped spring clutch.
      b. Brake must withstand minimum pull force of 50 lb in the stopped position.
      c. Mount clutch/brake assembly on the support brackets, fully independent of the roller tube components.
   6. Drive Chain: Continuous loop stainless steel beaded ball chain, 95 lb minimum breaking strength. Provide upper and lower limit stops.
      a. Chain Retainer: Chain tensioning device complying with WCMA A100.1.
   7. Accessories:
      a. Fascia: Extruded aluminum, size as required to conceal shade mounting, attachable to brackets without exposed fasteners; clear anodized finish.
         1) Color: Gray.
      b. Ceiling Pockets: Premanufactured metal shade pocket with removable closure panel, for recess mounting in acoustical tile or drywall ceilings; size and configuration as indicated on

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drawings.

C. Roller Shades - Basis of Design: MechoShade Systems LLC; ElectroShade with iQ2-AC EDU, line voltage, 120 VAC: www.mechoshade.com/#sle.
   1. Description: Single roller, motor-operated fabric window shade system complete with mounting brackets, roller tubes, hembars, hardware, and accessories.
      a. Drop Position: Regular roll.
      b. Mounting: Ceiling mounted.
      c. Size: As indicated on drawings.
      d. Fabric: As indicated under Shade Fabric article.
   2. Brackets and Mounting Hardware: As recommended by manufacturer for mounting indicated and to accommodate shade fabric roll-up size and weight.
      a. Material: Steel, 1/8 inch thick.
   3. Roller Tubes:
      a. Material: Extruded aluminum.
      b. Size: As recommended by manufacturer; selected for suitability for installation conditions, span, and weight of shades.
      c. Fabric Attachment: Utilize extruded channel in tube to accept vinyl spline welded to fabric edge. Shade band to be removable and replaceable without removing roller tube from brackets or inserting spline from the side of the roller tube.
   4. Hembars: Designed to maintain bottom of shade straight and flat.
      a. Style: Full wrap fabric covered bottom bar, flat profile with heat sealed closed ends.
   5. Intelligent Encoded Electronic Drive System:
      a. Line-Voltage EDU, 120 VAC:
         1) Audible Noise: 46 dBA or less measured 3 feet from motor unit, depending on motor torque.
      b. Modes of Operation:
         1) Uniform Mode: Shades move only to defined intermediate stop positions to maintain aesthetic uniformity.
         2) Normal Mode: Shades move to defined intermediate stop positions plus any position between defined upper and lower limits.
         3) Maintenance Mode: Prevent shade from moving to newly commanded positions via dry contact or network control commands until EDU has been serviced or Maintenance Mode has been cleared or disabled.
      c. Control Methods:
         1) Local isolated dry contact inputs support local switch control and third-party system integration without separate interface.
         2) Bidirectional network communication enables commanding operation of large groups of shades over common backbone.
         3) Provide minimum of three customizable preset positions accessible over network connection and local dry contact control inputs.
         4) Provide minimum of 32 customizable preset positions, including three local switch presets, accessible via network commands.
   6. Accessories:
      a. Fascia: Removable extruded aluminum fascia, size as required to conceal shade mounting, attachable to brackets without exposed fasteners; baked enamel finish.
         1) Color: Gray.

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2) Configuration: Captured; fascia stops at bracket end.

b. Fasteners: Noncorrosive, and as recommended by shade manufacturer.

2.03 SHADE FABRIC

A. Fabric: Nonflammable, color-fast, impervious to heat and moisture, and able to retain its shape under normal operation.

1. Manufacturers:
   a. MechoShade Systems LLC; Soho - 1100 Series (1% open): www.mechoshade.com/#sle.
   b. Substitutions: See Section 01 60 00 - Product Requirements.
2. Material: Vinyl coated polyester.
3. Material Certificates and Product Disclosures:
   a. Low-Emitting Material Certification: Greenguard Gold certified and listed in UL (GGG).
   b. Cradle to Cradle Material Health Certificate: Achievement level of Bronze.
   c. Health Product Declaration (HPD): Complete, published declaration with full disclosure of known hazards.
4. Performance Requirements:
   a. Flammability: Pass NFPA 701 large and small tests.
   b. Fungal Resistance: No growth when tested according to ASTM G21.
5. Roll Width: 72 inches.
6. Color: As selected by Architect/Engineer from manufacturer's full range of colors.

2.04 MOTOR CONTROLS

A. Unless specifically indicated to be excluded, provide all required equipment, conduit, boxes, wiring, connectors, hardware, supports, accessories, software, system programming, etc. as necessary for a complete operating system that provides the control intent indicated.

B. Provide all components and connections necessary to interface with other systems as indicated.

C. Digital Network Controls:

1. Intelligent Motors and Devices: Identifiable over network without separate interface.
2. Provide suitable interface modules as indicated or as required for connection to standard (nonintelligent) motors and devices.
3. Capable of reprogrammed control without requiring wiring modifications.
4. Capable of assigning shade motors to shade groups/sub-groups.
5. Capable of storing programmable open and close limits and minimum of three intermediate preset stop positions for each shade.
6. Capable of aligning adjacent shades within accuracy of plus/minus 0.25 inch.
7. Provide 10 year nonvolatile power failure memory for system configuration settings.
8. Basis of Design: MechoShade Systems LLC; MechoNet: www.mechoshade.com/#sle.
   a. Low-voltage network utilizes standard Category 5/6 UTP cable; maximum of 4,000 feet, 250 nodes.

2.05 ROLLER SHADE FABRICATION

A. Field measure finished openings prior to ordering or fabrication.

B. Dimensional Tolerances: Fabricate shades to fit openings within specified tolerances.

1. Vertical Dimensions: Fill openings from head to sill with 1/2 inch space between bottom bar and window stool.

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2. Horizontal Dimensions - Outside Mounting: Cover window frames, trim, and casings completely.

C. Dimensional Tolerances: As recommended in writing by manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine finished openings for deficiencies that may preclude satisfactory installation.

B. If substrate preparation is the responsibility of another installer, notify Architect/Engineer of unsatisfactory preparation before proceeding.

C. Start of installation shall be considered acceptance of substrates.

3.02 PREPARATION

A. Prepare surfaces using methods recommended by manufacturer for achieving best result for substrate under the project conditions.

B. Coordinate with window installation and placement of concealed blocking to support shades.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions and approved shop drawings, using mounting devices as indicated.

B. Replace shades that exceed specified dimensional tolerances at no extra cost to Owner.

C. Adjust level, projection, and shade centering from mounting bracket. Verify there is no telescoping of shade fabric. Ensure smooth shade operation.

3.04 SYSTEM STARTUP

A. Motorized Shade System: Provide services of a manufacturer's authorized representative to perform system startup.

3.05 CLEANING

A. Clean soiled shades and exposed components as recommended by manufacturer.

B. Replace shades that cannot be cleaned to "like new" condition.

3.06 CLOSEOUT ACTIVITIES

A. See Section 01 78 00 - Closeout Submittals, for closeout submittals.

B. See Section 01 79 00 - Demonstration and Training, for additional requirements.

C. Demonstration: Demonstrate operation and maintenance of window shade system to Owner's personnel.

D. Training: Train Owner's personnel on operation and maintenance of system.
1. Use operation and maintenance manual as training reference, supplemented with additional training materials as required.
2. Provide minimum of two hours training by manufacturer's authorized personnel at location designated by the Owner.

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3.07 PROTECTION

A. Protect installed products from subsequent construction operations.

B. Touch-up, repair, or replace damaged products before Substantial Completion.

3.08 MAINTENANCE

A. See Section 01 70 00 - Execution and Closeout Requirements, for additional requirements relating to maintenance service.

END OF SECTION

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SECTION 12 36 00
COUNTERTOPS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Countertops for architectural cabinet work.

B. Wall-hung counters and vanity tops.

1.02 RELATED REQUIREMENTS

A. Section 06 41 00 - Custom Casework.

B. Section 22 40 00 - Plumbing Fixtures: Sinks.

1.03 REFERENCE STANDARDS

A. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications 2022.

B. NEMA LD 3 - High-Pressure Decorative Laminates 2005.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Specimen warranty.

C. Shop Drawings: Complete details of materials and installation; combine with shop drawings of cabinets and casework specified in other sections.

D. Selection Samples: For each finish product specified, color chips representing manufacturer's full range of available colors and patterns.

E. Verification Samples: For each finish product specified, minimum size 6 inches square, representing actual product, color, and patterns.

F. Installation Instructions: Manufacturer's installation instructions and recommendations.

G. Maintenance Data: Manufacturer's instructions and recommendations for maintenance and repair of countertop surfaces.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing work of the type specified in this section, with not less than five years of experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. See Section 06 41 00 - Custom Casework.

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1.07 FIELD CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.01 COUNTERTOPS

A. Quality Standard: See Section 06 41 00.

B. Plastic Laminate Countertops: High-pressure decorative laminate (HPDL) sheet bonded to substrate.
   1. Laminate Sheet: NEMA LD 3 Grade HGS, 0.048 inch nominal thickness.
      a. Finish: Matte or suede, gloss rating of 5 to 20.
      b. Surface Color and Pattern: As selected by Architect/Engineer from the manufacturer's full line.
   2. Exposed Edge Treatment: Square, substrate built up to minimum 1-1/4 inch thick; covered with plastic edgebanding.
   3. Back and End Splashes: Same material, same construction.

2.02 MATERIALS

A. Plastic Edgebanding: Extruded 3mm PVC or ABS, flat shaped; smooth finish; bonded to edge of component; of width to match component thickness. Provide "flexible" PVC material for curved component edges.
   1. Manufacturers:
      a. Charter Industries: www.charterindustries.com.
      b. EdgeCo, Inc.: www.edgecoinc.com.
      c. Frama-Tech, Inc.: www.framatech.net.
      d. Teknaform: www.teknaform.com.
   2. Color: As shown on drawings.
   3. Use at exposed edges of plastic laminate countertops, backsplashes and sidesplashes.

B. Medium Density Fiberboard for Supporting Substrate: ANSI A208.2.

C. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.

D. Joint Sealant: Mildew-resistant silicone sealant, clear.

2.03 FABRICATION

A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
   1. Join lengths of tops using best method recommended by manufacturer.
   2. Fabricate to overhang fronts and ends of cabinets 1 inch except where top butts against cabinet or wall.
   3. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.

B. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.
   1. Secure to countertop with concealed fasteners and with contact surfaces set in waterproof glue.

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2. Height: 4 inches, unless otherwise indicated.

C. Wall-Mounted Counters: Provide skirts, aprons, brackets, and braces as indicated on the Drawings, finished to match.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect/Engineer of unsatisfactory preparation before proceeding.

C. Verify that wall surfaces have been finished and mechanical and electrical services and outlets are installed in proper locations.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 INSTALLATION

A. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.

B. Attach plastic laminate countertops using screws with minimum penetration into substrate board of 5/8 inch.

C. Seal joint between back/end splashes and vertical surfaces.

3.04 CLEANING

A. Clean countertops surfaces thoroughly.

3.05 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION

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SECTION 21 05 00
COMMON WORK RESULTS FOR FIRE SUPPRESSION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Above ground piping.

B. Escutcheons.

C. Mechanical couplings.

D. Pipe hangers and supports.

E. Pipe sleeves.

1.02 RELATED REQUIREMENTS

A. Section 21 13 00 - Fire-Suppression Sprinkler Systems: Sprinkler systems design.

1.03 REFERENCE STANDARDS

A. ASME A112.18.1 - Plumbing Supply Fittings 2018, with Errata.

B. ASME BPVC-IX - Boiler and Pressure Vessel Code, Section IX - Qualification Standard for Welding, Brazing, and Fusing Procedures; Welders; Brazers; and Welding, Brazing, and Fusing Operators 2023.

C. ASME B16.1 - Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250 2020.

D. ASME B16.3 - Malleable Iron Threaded Fittings: Classes 150 and 300 2021.

E. ASME B16.4 - Gray Iron Threaded Fittings: Classes 125 and 250 2021.

F. ASME B16.9 - Factory-Made Wrought Buttwelding Fittings 2018.

G. ASME B16.25 - Buttwelding Ends 2017.

H. ASTM A47/A47M - Standard Specification for Ferritic Malleable Iron Castings 1999, with Editorial Revision (2022).

I. ASTM A536 - Standard Specification for Ductile Iron Castings 1984, with Editorial Revision (2019).

J. ASTM C592 - Standard Specification for Mineral Fiber Blanket Insulation and Blanket-Type Pipe Insulation (Metal-Mesh Covered) (Industrial Type) 2022a.

K. AWWA C606 - Grooved and Shouldered Joints 2022.

L. NFPA 13 - Standard for the Installation of Sprinkler Systems Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

M. UL (DIR) - Online Certifications Directory Current Edition.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide manufacturer's catalog information. Indicate valve data and ratings.

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C. Shop Drawings: Indicate pipe materials used, jointing methods, supports, and floor and wall penetration seals. Indicate installation, layout, weights, mounting and support details, and piping connections.

D. Project Record Documents: Record actual locations of components and tag numbering.

E. Operation and Maintenance Data: Include installation instructions and spare parts lists.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified in this section.
   1. Minimum three years experience.

C. Conform to UL and FM requirements.

D. Valves: Bear UL label or marking. Provide manufacturer's name and pressure rating marked on valve body.

E. Products Requiring Electrical Connection: Listed and classified as suitable for the purpose specified and indicated.

F. Clean equipment, pipes, valves, and fittings of grease, metal cuttings, and sludge that may have accumulated from the installation and testing of the system.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store valves in shipping containers, with labeling in place.

B. Provide temporary protective coating on cast iron and steel valves.

C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Welding Materials and Procedures: Comply with ASME BPVC-IX.

B. Provide system pipes, fittings, sleeves, escutcheons, seals, and other related accessories.

2.02 ABOVE GROUND PIPING

A. Steel Pipe: Schedule 40, black.
   1. Steel Fittings: ASME B16.9 wrought steel, buttwelded or ASME B16.25 buttweld ends.
   2. Cast Iron Fittings: ASME B16.1, flanges and flanged fittings and ASME B16.4, threaded fittings.
   3. Malleable Iron Fittings: ASME B16.3, threaded fittings and ASTM A47/A47M.
   4. Mechanical Grooved Couplings: Malleable iron housing clamps to engage and lock, "C" shaped elastomeric sealing gasket, steel bolts, nuts, and washers; galvanized for galvanized pipe.

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5. Mechanical Formed Fittings: Carbon steel housing with integral pipe stop and O-ring pocked and O-ring, uniformly compressed into permanent mechanical engagement onto pipe.

2.03 PIPE SLEEVES

A. Vertical Piping:
   1. Sleeve Length: 1 inch above finished floor.
   2. Provide sealant for watertight joint.
   3. Blocked Out Floor Openings: Provide 1-1/2 inch angle set in silicon adhesive around opening.
   4. Drilled Penetrations: Provide 1-1/2 inch angle ring or square set in silicone adhesive around penetration.

B. Plastic, Sheet Metal, or Moisture-Resistant Fiber: Pipe passing through interior walls, partitions, and floors, unless steel or brass sleeves are specified below.

C. Clearances:
   1. Wall, Floor, Floor, Partitions, and Beam Flanges: 1 inch greater than external; pipe diameter.

2.04 ESCUTCHEONS

A. Manufacturers:
   1. Fire Protection Products, Inc.
   2. Tyco Fire Protection Products.
   3. Viking Group Inc.

B. Material:
   1. Fabricate from nonferrous metal.
   2. Chrome-plated.
   3. Metals and Finish: Comply with ASME A112.18.1.

C. Construction:
   1. One-piece for mounting on chrome-plated tubing or pipe and one-piece or split-pattern type elsewhere.
   2. Internal spring tension devices or setscrews to maintain a fixed position against a surface.

2.05 PIPE HANGERS AND SUPPORTS

A. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron, adjustable swivel, split ring.

B. Hangers for Pipe Sizes 2 inches and Over: Carbon steel, adjustable, clevis.

C. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.

D. Wall Support for Pipe Sizes to 3 inches: Cast iron hook.

E. Wall Support for Pipe Sizes 4 inches and Over: Welded steel bracket and wrought steel clamp.

F. Vertical Support: Steel riser clamp.

2.06 MECHANICAL COUPLINGS

A. Manufacturers:
   1. Anvil International.
   2. Tyco Fire Protection Products.

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3. Victaulic Company; FireLock Style 009H.

B. Rigid Mechanical Couplings for Grooved Joints:
   1. Dimensions and Testing: Comply with AWWA C606.
   2. Minimum Working Pressure: 300 psig.
   3. Housing Material: Fabricate of ductile iron complying with ASTM A536.
   4. Housing Coating: Factory applied orange enamel.
   5. Gasket Material: EPDM suitable for operating temperature range from minus 30 degrees F to 230 degrees F.
   6. Bolts and Nuts: Hot-dipped-galvanized or zinc-electroplated steel.

PART 3 EXECUTION

3.01 PREPARATION

A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.

B. Remove scale and foreign material, from inside and outside, before assembly.

C. Prepare piping connections to equipment with flanges or unions.

3.02 INSTALLATION

A. Install sprinkler system and service main piping, hangers, and supports in accordance with NFPA 13.

B. Route piping in orderly manner, plumb and parallel to building structure. Maintain gradient.

C. Install piping to conserve building space, to not interfere with use of space and other work.

D. Group piping whenever practical at common elevations.

E. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.

F. Inserts:
   1. Provide inserts for placement in concrete formwork.
   2. Provide inserts for suspending hangers from reinforced concrete slabs and sides of reinforced concrete beams.
   3. Where inserts are omitted, drill through concrete slab from below and provide through-bolt with recessed square steel plate and nut flush with top of slab.

G. Pipe Hangers and Supports:
   1. Install hangers to provide minimum 1/2 inch space between finished covering and adjacent work.
   2. Place hangers within 12 inches of each horizontal elbow.
   3. Use hangers with 1-1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
   4. Support vertical piping at every other floor. Support riser piping independently of connected horizontal piping.
   5. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.

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H. Slope piping and arrange systems to drain at low points. Use eccentric reducers to maintain top of pipe level.

I. Prepare pipe, fittings, supports, and accessories for finish painting. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc-rich primer to welding.

J. Do not penetrate building structural members unless indicated.

K. Provide sleeves when penetrating floors, walls, and partitions and seal pipe and sleeve penetrations to achieve fire resistance equivalent to fire separation required.
   1. Aboveground Piping:
      a. Pack solid using mineral fiber complying with ASTM C592.
      b. Fill space with an elastomer caulk to a depth of 0.50 inch where penetrations occur between conditioned and unconditioned spaces.
   2. Caulk exterior wall sleeves watertight with lead and oakum or mechanically expandable chloroprene inserts with mastic-sealed components.

L. Escutcheons:
   1. Install and firmly attach escutcheons at piping penetrations into finished spaces.
   2. Provide escutcheons on both sides of partitions separating finished areas through which piping passes.
   3. Attach plates at the underside only of suspended ceilings.
   4. Use chrome plated escutcheons in occupied spaces and to conceal openings in construction.

M. When installing more than one piping system material, ensure system components are compatible and joined to ensure the integrity of the system. Provide necessary joining fittings. Ensure flanges, unions, and couplings for servicing are consistently provided.

3.03 CLEANING

A. Upon completion of work, clean all parts of the installation.

B. Clean equipment, pipes, valves, and fittings of grease, metal cuttings, and sludge that may have accumulated from the installation and testing of the system.

END OF SECTION

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SECTION 21 13 00
FIRE-SUPPRESSION SPRINKLER SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Wet-pipe sprinkler system.

B. System design, installation, and certification.

1.02 RELATED REQUIREMENTS

A. Section 21 05 00 - Common Work Results for Fire Suppression: Pipe and fittings.

B. Section 26 05 83 - Wiring Connections: Electrical characteristics and wiring connections.

1.03 REFERENCE STANDARDS

A. FM (AG) - FM Approval Guide Current Edition.

B. ITS (DIR) - Directory of Listed Products Current Edition.

C. NFPA 13 - Standard for the Installation of Sprinkler Systems Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

D. UL (DIR) - Online Certifications Directory Current Edition.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on sprinklers, valves, and specialties, including manufacturers catalog information. Submit performance ratings, rough-in details, weights, support requirements, and piping connections.

C. Shop Drawings:
   1. Indicate hydraulic calculations, detailed pipe layout, hangers and supports, sprinklers, components, and accessories. Indicate system controls.
   2. Submit shop drawings to Authorities Having Jurisdiction for approval. Submit proof of approval to Architect/Engineer.

D. Operation and Maintenance Data: Include components of system, servicing requirements, record drawings, inspection data, replacement part numbers and availability, and location and numbers of service depot.

E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements for additional provisions.
   2. Extra Sprinklers: Type and size matching those installed in quantity required by referenced NFPA design and installation standard.
   3. Sprinkler Wrenches: For each sprinkler type.

F. Project Record Documents: Record actual locations of sprinklers and deviations of piping from drawings. Indicate drain and test locations.

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1.05 QUALITY ASSURANCE

A. Conform to FM (AG) requirements.

B. Designer Qualifications: Design system under direct supervision of a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located. Or a holder of a valid NICET level III or IV Sprinkler Technician.

C. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

D. Installer Qualifications: Company specializing in performing the work of this section with minimum 3 years experience approved by manufacturer.

E. Equipment and Components: Provide products that bear ITS (DIR) label or marking.

F. Products Requiring Electrical Connection: Listed and classified by UL (DIR) as suitable for the purpose specified and indicated.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Store products in shipping containers and maintain in place until installation. Provide temporary inlet and outlet caps. Maintain caps in place until installation.

PART 2 PRODUCTS

2.01 SPRINKLER SYSTEM

A. Sprinkler System: Provide coverage for building areas noted.

B. Water Supply: Determine volume and pressure from water flow test data.

C. Storage Cabinet for Spare Sprinklers and Tools: Steel, located adjacent to alarm valve.

2.02 SPRINKLERS

A. Suspended Ceiling Type: Semi-recessed pendant type with matching push on escutcheon plate.
   1. Response Type: Standard.
   2. Coverage Type: Standard.
   3. Finish: Chrome plated.
   4. Escutcheon Plate Finish: Chrome plated.
   5. Fusible Link: Glass bulb type temperature rated for specific area hazard.

B. Exposed Area Type: Upright type with guard.
   1. Response Type: Standard.
   2. Coverage Type: Standard.
   3. Finish: Brass.
   4. Fusible Link: Glass bulb type temperature rated for specific area hazard.

C. Guards: Finish to match sprinkler finish.

2.03 STAINLESS STEEL FLEXIBLE DROPS

A. Manufacturers:

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1. Flex Head Industries, Inc.
2. Aqua Flex.
3. Victaulic Company.

B. In lieu of rigid pipe offsets or return bends. Braided type 304 stainless steel flexible tube with male threaded pipe nipple for connection to branchline piping, and a zinc plated steel reducer with a 1/2" or 3/4" NPT female thread for connection to a sprinkler head. The hoses shall be factory-pressure tested to 400 psi.

C. Flexible drop shall attach to the ceiling grid with open gate bracket and can be installed without the use of special tools.

D. The braided drop shall be FM approved for sprinkler services to 200 psi.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with referenced NFPA design and installation standard.

B. Install equipment in accordance with manufacturer's instructions.

C. Place pipe runs to minimize obstruction to other work.

D. Place piping in concealed spaces above finished ceilings.

E. Center sprinklers in two directions in ceiling tile and provide piping offsets as required.

F. Apply masking tape or paper cover to ensure concealed sprinklers, cover plates, and sprinkler escutcheons do not receive field paint finish. Remove after painting. Replace painted sprinklers.

G. Flush entire piping system of foreign matter.

H. Install guards on sprinklers exposed sprinklers within 8' of finished floor.

3.02 INTERFACE WITH OTHER PRODUCTS

A. Ensure required devices are installed and connected as required to fire alarm system.

3.03 SCHEDULES

A. System Hazard Areas:
1. Offices: Light Hazard.
2. Equipment and Storage Rooms: Ordinary Hazard, Group 2.
3. Other Areas: In accordance with NFPA 13.

END OF SECTION

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SECTION 22 05 53
IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Tags.

B. Pipe markers.

1.02 REFERENCE STANDARDS

A. ASME A13.1 - Scheme for the Identification of Piping Systems 2020.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Schedules:
   1. Submit plumbing component identification schedule listing equipment, piping, and valves.
   2. Valve Data Format: Include id-number, location, function, and model number. Coordinate with owner on exact valve number format.

C. Project Record Documents: Record actual locations of tagged valves.

PART 2 PRODUCTS

2.01 PLUMBING COMPONENT IDENTIFICATION GUIDELINE

A. Tags:
   1. Piping: 3/4 inch diameter and smaller.
   2. Manual operated and automated control valves.

B. Pipe Markers: 3/4 inch diameter and higher.

2.02 TAGS

A. Manufacturers:
   1. Brimar Industries, Inc..
   2. Craftmark Pipe Markers.
   3. Kolbi Pipe Marker Co..
   4. Seton Identification Products.

B. Plastic Tags: Laminated three-layer plastic with engraved black letters on light contrasting background color. Tag size minimum 1-1/2 inch diameter.

C. Valve Tag Chart: Typewritten 12-point letter size list in anodized aluminum frame.

2.03 PIPE MARKERS

A. Manufacturers:
   1. Brimar Industries, Inc.
   2. Craftmark Pipe Markers.
   3. Kolbi Pipe Marker Co..

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4. Seton Identification Products.

B. Comply with ASME A13.1.

C. Flexible Marker: Factory fabricated, semi-rigid, preformed to fit around pipe or pipe covering; minimum information indicating flow direction arrow and identification of fluid conveyed.

D. Flexible Tape Marker: Flexible, vinyl film tape with pressure-sensitive adhesive backing and printed markings.

E. Identification Scheme, ASME A13.1:
1. Primary: External Pipe Diameter, Uninsulated or Insulated.
   a. 3/4 to 1-1/4 inches: Use 8 inch field-length with 1/2 inch text height.
   b. 1-1/2 to 2 inches: Use 8 inch field-length with 3/4 inch text height.
   c. 2-1/2 to 6 inches: Use 12 inch field-length with 1-1/4 inch text height.
2. Secondary: Color scheme per fluid service.
   a. Cold Potable Water; White text on green background.
   b. Hot and Hot Water Recirculation Potable Water; Black text on yellow background.
3. Tertiary: Other Details.
   a. Directional flow arrow.

PART 3 EXECUTION

3.01 PREPARATION

A. Degrease and clean surfaces to receive identification products.

3.02 INSTALLATION

A. Install tags in clear view and align with axis of piping

B. Install plastic pipe markers in accordance with manufacturer's instructions.

C. Install plastic tape pipe marker around pipe in accordance with manufacturer's instructions.

D. Apply ASME A13.1 Pipe Marking Rules:
1. Place pipe marker adjacent to changes in direction.
2. Place pipe marker adjacent each valve port and flange end.
3. Place pipe marker at both sides of floor and wall penetrations.
4. Place pipe marker every 25 to 50 feet interval of straight run.

END OF SECTION

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SECTION 22 07 19
PLUMBING PIPING INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Glass fiber insulation.

B. Jacketing and accessories.

1.02 RELATED REQUIREMENTS

A. Section 22 10 05 - Plumbing Piping: Placement of hangers and hanger inserts.

1.03 REFERENCE STANDARDS

A. ASTM C177 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus 2019, with Editorial Revision (2023).

B. ASTM C195 - Standard Specification for Mineral Fiber Thermal Insulating Cement 2007 (Reapproved 2019).

C. ASTM C547 - Standard Specification for Mineral Fiber Pipe Insulation 2022a.

D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2023.

E. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials 2022a, with Editorial Revision (2023).

F. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials Current Edition, Including All Revisions.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide product description, thermal characteristics, list of materials and thickness for each service, and locations.

C. Manufacturer's Instructions: Indicate installation procedures that ensure acceptable workmanship and installation standards will be achieved.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with not less than three years of documented experience.

B. Applicator Qualifications: Company specializing in performing the type of work specified in this section with minimum three years of experience.

C. Comply with the Midwest Insulation Contractors Association "National Commercial and Industrial Insulation Standards".

1.06 DELIVERY, STORAGE, AND HANDLING

A. Accept materials on site, labeled with manufacturer's identification, product density, and thickness.

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1.07 FIELD CONDITIONS

A. Maintain ambient conditions required by manufacturers of each product.

B. Maintain temperature before, during, and after installation for minimum of 24 hours.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Surface Burning Characteristics: Flame spread index/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E84, UL 723, ASTM E84, or UL 723.

2.02 GLASS FIBER INSULATION

A. Manufacturers:
   1. CertainTeed Corporation.
   2. Johns Manville Corporation.
   3. Knauf Insulation.
   4. Owens Corning Corporation.

B. Insulation: ASTM C547and ASTM C795; semi-rigid, noncombustible, end grain adhered to jacket.
   1. K Value: ASTM C177, 0.24 at 75 degrees F.
   2. Maximum Service Temperature: 650 degrees F.
   3. Maximum Moisture Absorption: 0.2 percent by volume.

C. Vapor Barrier Jacket: White Kraft paper with glass fiber yarn, bonded to aluminized film; moisture vapor transmission when tested in accordance with ASTM E96/E96M of 0.02 perm.

D. Vapor Barrier Lap Adhesive: Compatible with insulation.

E. Insulating Cement/Mastic: ASTM C195; hydraulic setting on mineral wool.

2.03 JACKETING AND ACCESSORIES

A. PVC Plastic Jacket:
   1. Jacket: One piece molded type fitting covers, off-white color.
      a. Minimum Service Temperature: 0 degrees F.
      b. Maximum Service Temperature: 150 degrees F.
      c. Moisture Vapor Permeability: 0.002 perm inch, maximum, when tested in accordance with ASTM E96/E96M.
      d. Thickness: 10 mil, 0.010 inch.
      e. Connections: Brush on welding adhesive.
   2. Covering Adhesive Mastic: Compatible with insulation.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that piping has been tested before applying insulation materials.

B. Verify that surfaces are clean and dry, with foreign material removed.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

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B. Install in accordance with North American Insulation Manufacturers Association (NAIMA) National Insulation Standards.

C. Exposed Piping: Locate insulation and cover seams in least visible locations.

D. Insulated pipes conveying fluids below ambient temperature: Insulate entire system including fittings, valves, unions, flanges, strainers, flexible connections, and expansion joints. All hangers, supports, anchors and other projections that are in contact to cold surfaces shall be insulated and vapor sealed to prevent condensation.

E. Glass fiber insulated pipes conveying fluids below ambient temperature:
   1. Provide vapor barrier jackets, factory-applied or field-applied. Secure with self-sealing longitudinal laps and butt strips with pressure-sensitive adhesive. Secure with outward clinch expanding staples and vapor barrier mastic.
   2. Insulate fittings, joints, and valves with molded insulation of like material and thickness as adjacent pipe. Finish with glass cloth and vapor barrier adhesive or PVC fitting covers.

F. For hot piping conveying fluids 140 degrees F or less, do not insulate flanges and unions at equipment, but bevel and seal ends of insulation.

G. Glass fiber insulated pipes conveying fluids above ambient temperature:
   1. Provide standard jackets, with or without vapor barrier, factory-applied or field-applied. Secure with self-sealing longitudinal laps and butt strips with pressure-sensitive adhesive. Secure with outward clinch expanding staples.
   2. Insulate fittings, joints, and valves with insulation of like material and thickness as adjoining pipe. Finish with glass cloth and adhesive or PVC fitting covers.

H. Inserts and Shields:
   1. Shields: Galvanized steel between pipe hangers or pipe hanger rolls and inserts.
   2. Insert Location: Between support shield and piping and under the finish jacket.
   3. Insert Configuration: Minimum 6 inches long, of same thickness and contour as adjoining insulation; may be factory fabricated.
   4. Insert Material: Hydrous calcium silicate insulation or other heavy density insulating material suitable for the planned temperature range.

I. Apply insulation at pipe hangers and supports according to National Commercial and Industrial Standards Plate Numbers 5, 6 and 7.

3.03 SCHEDULES

A. Plumbing Systems:
   1. Domestic Hot Water Supply:
      a. Glass Fiber Insulation:
         1) Pipe Size Range: Up to and including 2 inch.
            a) Thickness: 1 inch.
   2. Domestic Hot Water Recirculation:
      a. Glass Fiber Insulation:
         1) Pipe Size Range: All sizes.
            a) Thickness: 1 inch.
   3. Domestic Cold Water:
      a. Glass Fiber Insulation:

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1) Pipe Size Range: All sizes.
   a) Thickness: 1 inch.

END OF SECTION

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SECTION 22 10 05
PLUMBING PIPING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Sanitary waste piping, above grade.

B. Domestic water piping, above grade.

C. Pipe flanges, unions, and couplings.

D. Pipe hangers and supports.

E. Valves
   1. Ball valves.

1.02 RELATED REQUIREMENTS

A. Section 22 05 53 - Identification for Plumbing Piping and Equipment.

B. Section 22 07 19 - Plumbing Piping Insulation.

1.03 REFERENCE STANDARDS

A. ASME B16.18 - Cast Copper Alloy Solder Joint Pressure Fittings 2021.

B. ASME B16.22 - Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings 2021.

C. ASME B16.23 - Cast Copper Alloy Solder Joint Drainage Fittings: DWV 2021.

D. ASME B16.29 - Wrought Copper and Wrought Copper Alloy Solder-Joint Drainage Fittings—DWV 2017.

E. ASTM A74 - Standard Specification for Cast Iron Soil Pipe and Fittings 2021.

F. ASTM B32 - Standard Specification for Solder Metal 2020.

G. ASTM B306 - Standard Specification for Copper Drainage Tube (DWV) 2020.

H. ASTM B813 - Standard Specification for Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube 2016.

I. ASTM B828 - Standard Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings 2016.

J. ASTM C564 - Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings 2020a.

K. ASTM C1277 - Standard Specification for Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings 2020.

L. AWWA C651 - Disinfecting Water Mains 2014, with Addendum (2020).

M. CISPI 301 - Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications 2021.

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N. CISPI 310 - Specification for Coupling for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications 2020.

O. MSS SP-58 - Pipe Hangers and Supports - Materials, Design, Manufacture, Selection, Application, and Installation 2018, with Amendment (2019).

P. NSF 61 - Drinking Water System Components - Health Effects 2022, with Errata.

Q. NSF 372 - Drinking Water System Components - Lead Content 2022.

R. Safe Drinking Water Act, Section 1417 - Lead Free: Refers to the wetted surface of pipe, fittings and fixtures in potable water systems that have a weighted average lead content <= 0.25%, Amended January 4, 2011.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on pipe materials, pipe fittings, valves, and accessories. Provide manufacturers catalog information. Indicate valve data and ratings.

C. Project Record Documents: Record actual locations of valves.

1.05 QUALITY ASSURANCE

A. Perform work in accordance with applicable codes.

B. Valves: Manufacturer's name and pressure rating marked on valve body. Manufacturers lead free marking on valve body.

C. Perform Work in accordance with City plumbing ordinances.

D. Perform Work in accordance with Fox Metro Water Reclamation District (Sanitary sewer contractor shall be bonded with Fox Metro).

1.06 DELIVERY, STORAGE, AND HANDLING

A. Accept valves on site in shipping containers with labeling in place. Inspect for damage.

B. Provide temporary protective coating on cast iron and steel valves.

C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

D. Protect piping systems from entry of foreign materials by temporary covers, completing sections of the work, and isolating parts of completed system.

1.07 FIELD CONDITIONS

A. Do not install underground piping when bedding is wet or frozen.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Potable Water Supply Systems: Provide piping, pipe fittings, and solder and flux (if used), that comply with NSF 61 and NSF 372 for maximum lead content; label pipe and fittings.

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2.02 SANITARY WASTE PIPING, ABOVE GRADE

A. Cast Iron Pipe: ASTM A74, service weight.
   1. Fittings: Cast iron.
   2. Joint Seals: ASTM C564 neoprene gaskets, or lead and oakum.

B. Cast Iron Pipe: CISPI 301, hubless, service weight.
   1. Fittings: Cast iron.
   2. Joints: CISPI 310, neoprene gaskets and stainless steel clamp-and-shield assemblies.

C. Copper Tube: ASTM B306, DWV.
   1. Fittings: ASME B16.29, wrought copper, or ASME B16.23, sovent.
   2. Joints: ASTM B32, alloy Sn50 solder.

2.03 DOMESTIC WATER PIPING, ABOVE GRADE

A. Copper Tube: ASTM B88 (ASTM B88M), Type L (B), Drawn (H).
   1. Fittings: ASME B16.18, cast copper alloy or ASME B16.22, wrought copper and bronze.
   2. Joints: ASTM B32, alloy Sn95 solder for 2" and under.
   3. Joints: AWS A5.8M/A5.8, BCuP copper/silver braze for 2-1/2" and over.
   4. Mechanical Press Sealed Fittings: Double pressed type, NSF 61 approved or certified, utilizing EPDM, non toxic synthetic rubber sealing elements. Sealing elements shall be factory installed by fitting manufacturer. Press ends shall have means to indicate non-pressed fitting during pressure testing.
      a. Manufacturers:
         1) Viega LLC.
         2) Nibco.

2.04 PIPE FLANGES, UNIONS, AND COUPLINGS

A. Unions for Pipe Sizes 3 inch and Under:
   1. Ferrous Pipe: Class 150 malleable iron threaded unions.
   2. Copper Tube and Pipe: Class 150 bronze unions with soldered joints.

B. Flanges for Pipe Sizes Over 1 inch:
   1. Ferrous Pipe: Class 150 malleable iron threaded or forged steel slip-on flanges; preformed neoprene gaskets.
   2. Copper Tube and Pipe: Class 150 slip-on bronze flanges; preformed neoprene gaskets.

C. No-Hub Couplings:
   1. Testing: In accordance with ASTM C1277 and CISPI 310.
   2. Gasket Material: Neoprene complying with ASTM C564.
   3. Band Material: Stainless steel.
   4. Eyelet Material: Stainless steel.

D. Dielectric Connections: Union with galvanized or plated steel threaded end, copper solder end, water impervious isolation barrier.

2.05 PIPE HANGERS AND SUPPORTS

A. Provide hangers and supports that comply with MSS SP-58.

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1. If type of hanger or support for a particular situation is not indicated, select appropriate type using MSS SP-58 recommendations.
2. Overhead Supports: Individual steel rod hangers attached to structure or to trapeze hangers.
3. Trapeze Hangers: Welded steel channel frames attached to structure.
4. Vertical Pipe Support: Steel riser clamp.

B. Plumbing Piping - Drain, Waste, and Vent:
1. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron, adjustable swivel, split ring.
2. Hangers for Pipe Sizes 2 inch and Over: Carbon steel, adjustable, clevis.
3. Wall Support for Pipe Sizes to 3 inch: Cast iron hook.
4. Wall Support for Pipe Sizes 4 inch and Over: Welded steel bracket and wrought steel clamp.
5. Copper Pipe Support: Carbon steel ring, adjustable, copper plated.

C. Plumbing Piping - Water:
1. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron, adjustable swivel, split ring.
2. Hangers for Cold Pipe Sizes 2 inch and Over: Carbon steel, adjustable, clevis.
3. Wall Support for Pipe Sizes Up to 3 inch: Cast iron hook.
4. Copper Pipe Support: Carbon steel ring, adjustable, copper plated.
5. Strut mounted pipe shall have clamps with insert for pipe support to allow for continuous insulation at clamp. Manufacturer; Klo-Shure insulation couplings

2.06 BALL VALVES

A. Manufacturers:
1. Apollo Valves.
2. Grinnell Products: www.grinnell.com/#sle.
3. Nibco, Inc; T/S-585-66-LF.
4. Watts.
5. Milwaukee Valve Company.

B. Construction, 4 Inches and Smaller: MSS SP-110, Class 150, 400 psi CWP, bronze body, 304 stainless steel ball, regular port, teflon seats and stuffing box ring, blow-out proof stem, lever handle with balancing stops, solder, threaded, or grooved ends.

2.07 PIPING SPECIALTIES

A. Thermostatic Flow Controls:
1. Manufacturers:
a. ThermOmegaTech; Circuit Solver, Model CS-1/2-115
b. Substitutions: See Section 01 60 00 - Product Requirements.
2. Flow control assembly with self-acting thermostatic recirculation valve which automatically and continuously maintains potable hot water supply at the specified water temperature. As the water temperature increases the valve shall proportionally close dynamically adjusting flow regardless of system operating pressure.
3. Construction: Major components constructed of type 303 SS, all lead free components, thermal actuator shall be spring loaded and self-cleaning. Rated to 200 psig maximum working pressure and 250 degrees F maximum working temperature.
4. Components: Assembly consisting of thermal actuator, check valve, and isolation ball valves on both ends.

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PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that excavations are to required grade, dry, and not over-excavated.

3.02 PREPARATION

A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.

B. Remove scale and dirt, on inside and outside, before assembly.

C. Prepare piping connections to equipment with flanges or unions.

D. Review millwork shop drawings. Confirm location and size of fixtures and openings before rough-in and installation.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Provide non-conducting dielectric connections wherever jointing dissimilar metals.

C. Route piping in orderly manner and maintain gradient. Route parallel and perpendicular to walls.

D. Install piping to maintain headroom, conserve space, and not interfere with use of space.

E. Group piping whenever practical at common elevations.

F. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.

G. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings.

H. Provide access where valves and fittings are not exposed.

I. Install vent piping penetrating roofed areas to maintain integrity of roof assembly.

J. Prepare exposed, unfinished pipe, fittings, supports, and accessories for finish painting.

K. Install bell and spigot pipe with bell end upstream.

L. Install valves with stems upright or horizontal, not inverted. See Section 22 05 23.

M. Copper Pipe and Tube: Make soldered joints in accordance with ASTM B828, using specified solder, and flux meeting ASTM B813; in potable water systems use flux also complying with NSF 61 and NSF 372.

N. Sleeve pipes passing through partitions, walls, and floors.

O. Pipe Hangers and Supports:
   1. Support horizontal piping as indicated.
   2. Install hangers to provide minimum 1/2 inch space between finished covering and adjacent work.
   3. Place hangers within 12 inches of each horizontal elbow.

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4. Use hangers with 1-1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
5. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.
6. Provide copper plated hangers and supports for copper piping.
7. Prime coat exposed steel hangers and supports. Hangers and supports located in crawl spaces, pipe shafts, and suspended ceiling spaces are not considered exposed.
8. Support cast iron drainage piping at every joint.

3.04 APPLICATION

A. Use grooved mechanical couplings and fasteners only in accessible locations.

B. Install ball valves for shut-off and to isolate equipment, part of systems, or vertical risers.

C. Provide flow controls in water recirculating systems where indicated.

3.05 TOLERANCES

A. Drainage Piping: Establish invert elevations within 1/2 inch vertically of location indicated and slope to drain at minimum of 1/8 inch per foot slope.

B. Water Piping: Slope at minimum of 1/32 inch per foot and arrange to drain at low points.

3.06 DISINFECTION OF DOMESTIC WATER PIPING SYSTEM

A. Prior to starting work, verify system is complete, flushed, and clean.

B. Ensure acidity (pH) of water to be treated is between 7.4 and 7.6 by adding alkali (caustic soda or soda ash) or acid (hydrochloric).

C. Inject disinfectant, free chlorine in liquid, powder, tablet, or gas form throughout system to obtain 50 to 80 mg/L residual.

D. Bleed water from outlets to ensure distribution and test for disinfectant residual at minimum 15 percent of outlets.

E. Maintain disinfectant in system for 24 hours.

F. If final disinfectant residual tests less than 25 mg/L, repeat treatment.

G. Flush disinfectant from system until residual equal to that of incoming water or 1.0 mg/L.

H. Take samples no sooner than 24 hours after flushing, from 10 percent of outlets and from water entry, and analyze in accordance with AWWA C651.

3.07 SCHEDULES

A. Pipe Hanger Spacing:
   1. Metal Piping:
      a. Pipe Size: 1/2 inch to 1-1/4 inch:
         1) Maximum Hanger Spacing: 6.5 ft.
         2) Hanger Rod Diameter: 3/8 inches.
      b. Pipe Size: 1-1/2 inch to 2 inch:
         1) Maximum Hanger Spacing: 10 ft.

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2) Hanger Rod Diameter: 3/8 inch.

c. Pipe Size: 2-1/2 inch to 3 inch:
   1) Maximum Hanger Spacing: 10 ft.
   2) Hanger Rod Diameter: 1/2 inch.

d. Pipe Size: 4 inch to 6 inch:
   1) Maximum Hanger Spacing: 10 ft.
   2) Hanger Rod Diameter: 5/8 inch.

END OF SECTION

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SECTION 22 10 06
PLUMBING PIPING SPECIALTIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Drains.

B. Cleanouts.

C. Refrigerator valve and recessed box.

D. Water hammer arrestors.

E. Air vents.

1.02 RELATED REQUIREMENTS

A. Section 22 10 05 - Plumbing Piping.

B. Section 22 40 00 - Plumbing Fixtures.

1.03 REFERENCE STANDARDS

A. ASME A112.6.3 - Floor and Trench Drains 2019.

B. ASSE 1012 - Performance Requirements for Backflow Preventers with an Intermediate Atmospheric Vent 2021.

C. ASSE 1013 - Performance Requirements for Reduced Pressure Principle Backflow Prevention Assemblies 2021.

D. ASSE 1019 - Performance Requirements for Wall Hydrant with Backflow Protection and Freeze Resistance 2011 (Reaffirmed 2016).

E. NSF 61 - Drinking Water System Components - Health Effects 2022, with Errata.

F. NSF 372 - Drinking Water System Components - Lead Content 2022.

G. PDI-WH 201 - Water Hammer Arresters 2017.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide component sizes, rough-in requirements, service sizes, and finishes.

C. Maintenance Data: Include installation instructions, spare parts lists, exploded assembly views.

D. Project Record Documents: Record actual locations of equipment, cleanouts, backflow preventers, water hammer arrestors.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Accept specialties on site in original factory packaging. Inspect for damage.

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PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Specialties in Potable Water Supply Systems: Provide products that comply with NSF 61 and NSF 372 for maximum lead content.

2.02 DRAINS

A. Manufacturers:
   1. Jay R. Smith Manufacturing Company.
   2. Zurn Industries, Inc.
   3. MIFAB.

B. Floor Drain (FD-1):
   1. ASME A112.6.3; lacquered cast iron two piece body with double drainage flange, weep holes, reversible clamping collar, and 6 inch round, adjustable stainless steel strainer.
   2. J.R. Smith Model 2005-A06SS.

2.03 CLEANOUTS

A. Manufacturers:
   1. Jay R. Smith Manufacturing Company.
   2. Zurn Industries, Inc.
   3. MIFAB.

B. Cleanouts at Interior Finished Floor Areas FCO:
   1. Lacquered cast iron body with anchor flange, threaded scoriated secured stainless steel top, and ABS gasketed plug.
   2. J.R. Smith Model 4020-SS.

C. Cleanouts at Interior Finished Wall Areas:
   1. Line type with lacquered cast iron body and round taper threaded bronze plug, and round stainless steel access cover secured with machine screw.
   2. J.R. Smith Model 4422.

D. Cleanouts at Interior Unfinished Accessible Areas: Calked or threaded type. Provide bolted stack cleanouts on vertical rainwater leaders.
   1. J.R. Smith Model 4510.

2.04 REFRIGERATOR VALVE AND RECESSED BOX (IB)

A. Box Manufacturers:
   1. IPS Corporation/Guy Gray; Model MIB.
   2. Oatey Supply Chain Services, Inc; Model 39141.

B. Description: Recessed 18 gauge metal box and faceplate, white powder coated with chrome plated quarter-turn valve.

2.05 WATER HAMMER ARRESTORS

A. Manufacturers:
   1. Jay R. Smith Manufacturing Company.

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2. Oatey; Model Quiet Pipes.
3. Watts Regulator Company.
4. MIFAB.

B. Water Hammer Arrestors:
1. Copper construction, piston type sized in accordance with PDI-WH 201, precharged suitable for operation in temperature range minus 100 to 300 degrees F and maximum 250 psi working pressure.
2. J.R. Smith; Model 5000 Series.

2.06 AIR VENTS

A. Manufacturers:
1. ITT Bell & Gossett.
2. Taco, Inc.
3. Watts Regulator Company.

B. Manual Type: Short vertical sections of 2 inch diameter pipe to form air chamber, with 1/8 inch brass needle valve at top of chamber.

C. Float Type:
1. Brass or semi-steel body, copper, polypropylene, or solid non-metallic float, stainless steel valve and valve seat; suitable for system operating temperature and pressure; with isolating valve.
2. Cast iron body and cover, float, bronze pilot valve mechanism suitable for system operating temperature and pressure; with isolating valve.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Extend cleanouts to finished floor or wall surface. Lubricate threaded cleanout plugs with mixture of graphite and linseed oil. Ensure clearance at cleanout for rodding of drainage system.

C. Install floor cleanouts at elevation to accommodate finished floor.

D. Install water hammer arrestors complete with accessible isolation valve on hot and cold water supply piping to plumbing fixtures.

END OF SECTION

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SECTION 22 40 00
PLUMBING FIXTURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Flush valve water closets.

B. Lavatories.

C. Sinks.

1.02 RELATED REQUIREMENTS

A. Section 22 10 05 - Plumbing Piping.

B. Section 22 10 06 - Plumbing Piping Specialties.

1.03 REFERENCE STANDARDS

A. ASME A112.6.1M - Floor-Affixed Supports for Off-the-Floor Plumbing Fixtures for Public Use 1997 (Reaffirmed 2017).

B. ASME A112.19.2 - Ceramic Plumbing Fixtures 2018, with Errata.

C. ASME A112.19.5 - Flush Valves and Spuds for Water Closets, Urinals, and Tanks 2022.

D. NSF 61 - Drinking Water System Components - Health Effects 2022, with Errata.

E. NSF 372 - Drinking Water System Components - Lead Content 2022.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide catalog illustrations of fixtures, sizes, rough-in dimensions, utility sizes, trim, and finishes.

C. Maintenance Data: Include fixture trim exploded view and replacement parts lists.

D. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section, with minimum three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Accept fixtures on site in factory packaging. Inspect for damage.

B. Protect installed fixtures from damage by securing areas and by leaving factory packaging in place to protect fixtures and prevent use.

1.07 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

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PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. Potable Water Systems: Provide plumbing fittings and faucets that comply with NSF 61 and NSF 372 for maximum lead content; label pipe and fittings.

B. Water Efficiency: EPA WaterSense label is required for all water closets, urinals, lavatory faucets, and showerheads.

2.02 REGULATORY REQUIREMENTS

A. Comply with applicable codes for installation of plumbing systems.

2.03 FLUSH VALVE WATER CLOSETS (WC-1), ADAAG COMPLIANT

A. Water Closets:
   1. Vitreous china, ASME A112.19.2, wall hung, siphon jet flush action, china bolt caps.
   2. Bowl: ASME A112.19.2; 16.5 inches high with elongated rim.
   3. Flush Valve: Exposed (top spud).
   4. Flush Volume: 1.6 gallon, maximum.
   5. Flush Operation: Sensor operated.
   6. Handle Height: 11 inches or less.
   7. Trapway Outlet: 4 inch.
   8. Color: White.
   9. Manufacturers:
      a. Sloan Valve Company; Model ST-2469.
      b. American Standard, Inc.
      c. Zurn industries, Inc

B. Flush Valves:
   1. Valve Supply Size: 1 inch.
   2. Valve Outlet Size: 1-1/2 inches.
   3. Manufacturers:
      a. Sloan Valve Company; Model 8111-1.6.
      b. Zurn Industries, Inc.
      c. Substitutions: See Section 01 60 00 - Product Requirements.
   4. Sensor-Operated:
      a. Type: ASME A112.19.5; chloramine-resistant clog-resistant dual-seat diaphragm valve complete with vacuum breaker, stops and accessories.
      b. Mechanism: Solenoid-operated piston or electronic motor-actuated operator with battery powered infrared sensor, and mechanical override or override push button.
      c. Supplied Volume Capacity: 1.6 gal per flush.
   5. Exposed Type: Chrome-plated, escutcheon, integral screwdriver stop.

C. Toilet Seats:
   1. Manufacturers:
      a. Bemis Manufacturing Company; Model 2155SSC.
      b. Church Seat Company.

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c. Olsonite.
2. Plastic: Solid, antimicrobial, white finish, enlongated shape, open front, self-sustaining hinge, and non-corrosive 300 Series stainless steel posts and pintles.

D. Water Closet Carriers:
1. Manufacturers:
a. Jay R. Smith Manufacturing Company; Model 211 Series.
b. Zurn Industries, Inc.
c. MIFAB.
2. ASME A112.6.1M; adjustable cast iron frame, integral drain hub and vent, adjustable spud, lugs for floor and wall attachment, threaded fixture studs with nuts and washers.

2.04 LAVATORIES (L-1), ADAAG COMPLIANT

A. Manufacturers:
1. Sloan Valve Company; Model SS-3106.
2. American Standard, Inc.
3. Zurn industries, Inc.

B. Wall-Hung Basin:
1. Vitreous China, Grade A: ASME A112.19.2; white rectangular commercial-grade sink, ledgeback with predrilled holes, rear-center drain, and rear overflow. Size 20 by 19 inch with single hole. White vitreous china shroud and mounting hardware.
2. Carrier:
a. ASME A112.6.1M; cast iron and steel frame with tubular legs, lugs for floor and wall attachment, threaded studs for fixture hanger, bearing plate and studs.
b. Manufacturers:
1) Jay R. Smith MFG. Co; Model 0700.
2) Zurn Industries, LLC.
3) MIFAB.

C. Sensor Operated Faucet:
1. Cast brass, chrome plated, deck mounted with sensor located on neck of spout.
2. Spout Style: Standard.
3. Power Supply:
a. Battery: Replaceable alkaline or lithium type with 200,000 cycles, minimum.
4. Water Supply: 3/8 inch compression connections.
5. Aerator: Vandal resistant, 0.5 gpm, laminar flow device.
6. Automatic Shut-off: 30 seconds.
7. Sensor range: Multiple field-adjustable modes and ranges. Provide handheld programming unit with faucet.
8. Finish: Polished chrome.
9. Manufacturers:
a. The Chicago Faucet Company; 116.211.AB.1.
b. Substitutions: See Section 01 60 00 - Product Requirements.

D. Lavatory Carrier:
1. Manufacturers:

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a. Jay R. Smith Manufacturing Company.
b. Zurn Industries, LLC; Z1231.
c. MIFAB.

2. ASME A112.6.1M; cast iron and steel frame with tubular legs, lugs for floor and wall attachment, threaded studs for fixture hanger, bearing plate and studs.

E. Accessories:
1. Chrome-plated 17 gauge, 0.0538 inch brass P-trap and arm with escutcheon.
2. Offset waste with perforated open strainer. Dearborn Brass 760W-1
3. Thermostatic mixing valve. ASSE 1070 listed, stainless steel screen strainers, and check valves. Watts Series LFUSG-B.
4. Wheel handle stops.
5. Rigid supplies.
6. Lavatory pipe insulation:
a. Manufacturer:
1) Plumberex.
2) Brocar.
3) Truebro.
4) Dearborn Safety Series
b. Insulation: Fully molded closed cell vinyl or ethylene vinyl acetate foam, fit to lavatory P-trap, tailpiece and angle valve stop assemblies. Vinyl shall be antimicrobial with UV inhibitors and utilize reusable fasteners.

2.05 SINK (SK-1), ADAAG COMPLIANT

A. Manufacturers:
1. Elkay; Model LRAD-172065
2. Just
3. Advance Tabco.
4. Substitutions: See Section 01 60 00 - Product Requirements.

B. Single Compartment Bowl:
1. ASME A112.19.3; 17 x 20 x 6.5 inch outside dimensions, 18 gage thick, Type 304 stainless steel, self rimming and undercoated, with ledge back drilled for trim.
a. Drain: 3-1/2 inch basket stainer with brass bucket and tailpiece.

C. Trim:
1. Manufacturers:
a. T & S Brass and Bronze Works, Inc.
b. Chicago Faucet; Model 201-AL8-317XKABCP.
c. Zurn, Industries, Inc.
2. ASME A112.18.1; chrome plated brass supply with 8 inch swing spout, ceramic cartridges, vandal proof water economy aerator with maximum 2.2 gpm flow, indexed 4-inch wrist blade handles.

D. Accessories:
1. Chrome plated 17 gage brass P-trap and arm with escutcheon.
2. Mc Guire-H2167CC Handwheel stops.

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3. Rigid supplies.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that walls and floor finishes are prepared and ready for installation of fixtures.

B. Verify that electric power is available and of the correct characteristics.

C. Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

3.02 PREPARATION

A. Rough-in fixture piping connections in accordance with minimum sizes indicated in fixture rough-in schedule for particular fixtures.

3.03 INSTALLATION

A. Install each fixture with trap, easily removable for servicing and cleaning.

B. Provide chrome-plated rigid or flexible supplies to fixtures with loose key stops, reducers, and escutcheons.

C. Install components level and plumb.

D. Install and secure fixtures in place with wall carriers and bolts.

3.04 INTERFACE WITH WORK OF OTHER SECTIONS

A. Review millwork shop drawings. Confirm location and size of fixtures and openings before rough-in and installation.

3.05 ADJUSTING

A. Adjust stops or valves for intended water flow rate to fixtures without splashing, noise, or overflow.

3.06 CLEANING

A. Clean plumbing fixtures and equipment.

END OF SECTION

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SECTION 23 05 53
IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Nameplates.

B. Tags.

C. Ceiling tacks.

1.02 REFERENCE STANDARDS

A. ASTM D709 - Standard Specification for Laminated Thermosetting Materials 2017.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Project Record Documents: Record actual locations of tagged valves.

PART 2 PRODUCTS

2.01 IDENTIFICATION APPLICATIONS

A. Air Terminal Units: Nameplates

B. Air Terminal Units: Ceiling tacks, to identify location above ceiling.

C. Automatic Controls: Tags. Key to control schematic.

D. Control Panels: Nameplates.

2.02 NAMEPLATES

A. Manufacturers:
   1. Brimar Industries, Inc.
   2. Kolbi Pipe Marker Co..
   3. Seton Identification Products.
   4. Letter Color: White.
   5. Letter Height: 1/4 inch.
   6. Background Color: Black.
   7. Plastic: Comply with ASTM D709.

2.03 TAGS

A. Manufacturers:
   1. Brady Corporation.
   2. Brimar Industries, Inc.
   3. Kolbi Pipe Marker Co..
   4. Seton Identification Products.

B. Plastic Tags: Laminated three-layer plastic with engraved black letters on light contrasting background color. Tag size minimum 1-1/2 inch diameter.

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2.04 CEILING TACKS

A. Description: Steel with 3/4 inch diameter color coded head.

PART 3 EXECUTION

3.01 PREPARATION

A. Degrease and clean surfaces to receive adhesive for identification materials.

B. Prepare surfaces in accordance with Section 09 91 23 for stencil painting.

3.02 INSTALLATION

A. Install nameplates with corrosive-resistant mechanical fasteners, or adhesive. Apply with sufficient adhesive to ensure permanent adhesion and seal with clear lacquer.

B. Install tags with corrosion resistant chain.

C. Install plastic pipe markers in accordance with manufacturer's instructions.

D. Install plastic tape pipe markers complete around pipe in accordance with manufacturer's instructions.

E. Locate ceiling tacks to locate valves or dampers above lay-in panel ceilings. Locate in corner of panel closest to equipment.

END OF SECTION

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SECTION 23 05 93
TESTING, ADJUSTING, AND BALANCING FOR HVAC

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Testing, adjustment, and balancing of air systems.

B. Measurement of final operating condition of HVAC systems.

1.02 REFERENCE STANDARDS

A. AABC (NSTSB) - AABC National Standards for Total System Balance, 7th Edition 2016.

B. ASHRAE Std 110 - Methods of Testing Performance of Laboratory Fume Hoods 2016, with Errata.

C. ASHRAE Std 111 - Measurement, Testing, Adjusting, and Balancing of Building HVAC Systems 2008, with Errata (2019).

D. NEBB (TAB) - Procedural Standard for Testing Adjusting and Balancing of Environmental Systems 2019.

E. SMACNA (TAB) - HVAC Systems Testing, Adjusting and Balancing 2002.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Final Report: Indicate deficiencies in systems that would prevent proper testing, adjusting, and balancing of systems and equipment to achieve specified performance.
   1. Submit draft copies of report for review prior to final acceptance of Project. Provide final copies for Architect/Engineer and for inclusion in operating and maintenance manuals.
   2. Include actual instrument list, with manufacturer name, serial number, and date of calibration.
   3. Form of Test Reports: Where the TAB standard being followed recommends a report format use that; otherwise, follow ASHRAE Std 111.
   4. Units of Measure: Report data in both I-P (inch-pound) and SI (metric) units.
   5. Include the following on the title page of each report:
      a. Name of Testing, Adjusting, and Balancing Agency.
      b. Address of Testing, Adjusting, and Balancing Agency.
      c. Telephone number of Testing, Adjusting, and Balancing Agency.
      d. Project name.
      e. Project location.
      f. Project Architect/Engineer.
      g. Project Contractor.
      h. Report date.

C. Project Record Documents: Record actual locations of balancing valves and rough setting.

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PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

A. Perform total system balance in accordance with one of the following:
   1. AABC (NSTSB), AABC National Standards for Total System Balance.
   2. ASHRAE Std 111, Practices for Measurement, Testing, Adjusting and Balancing of Building Heating, Ventilation, Air-Conditioning, and Refrigeration Systems.
   3. NEBB Procedural Standards for Testing Adjusting Balancing of Environmental Systems.
   4. SMACNA (TAB).

B. Begin work after completion of systems to be tested, adjusted, or balanced and complete work prior to Substantial Completion of the project.

C. Where HVAC systems and/or components interface with life safety systems, including fire and smoke detection, alarm, and control, coordinate scheduling and testing and inspection procedures with the authorities having jurisdiction.

D. TAB Agency Qualifications:
   1. Company specializing in the testing, adjusting, and balancing of systems specified in this section.
   2. Having minimum of three years documented experience.
   3. Certified by one of the following:
      a. AABC, Associated Air Balance Council: www.aabc.com/#sle; upon completion submit AABC National Performance Guaranty.
      b. NEBB, National Environmental Balancing Bureau: www.nebb.org/#sle.
      c. TABB, The Testing, Adjusting, and Balancing Bureau of National Energy Management Institute: www.tabbcertified.org/#sle.

E. TAB Supervisor Qualifications: Certified by same organization as TAB agency.

3.02 EXAMINATION

A. Verify that systems are complete and operable before commencing work. Ensure the following conditions:
   1. Systems are started and operating in a safe and normal condition.
   2. Temperature control systems are installed complete and operable.
   3. Proper thermal overload protection is in place for electrical equipment.
   4. Final filters are clean and in place. If required, install temporary media in addition to final filters.
   5. Duct systems are clean of debris.
   6. Fans are rotating correctly.
   7. Fire and volume dampers are in place and open.
   8. Air coil fins are cleaned and combed.
   9. Access doors are closed and duct end caps are in place.
   10. Air outlets are installed and connected.
   11. Duct system leakage is minimized.

B. Submit field reports. Report defects and deficiencies that will or could prevent proper system balance.

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C. Beginning of work means acceptance of existing conditions.

3.03 ADJUSTMENT TOLERANCES

A. Air Handling Systems: Adjust to within plus or minus 5 percent of design for supply systems and plus or minus 10 percent of design for return and exhaust systems.

B. Air Outlets and Inlets: Adjust total to within plus 10 percent and minus 5 percent of design to space. Adjust outlets and inlets in space to within plus or minus 10 percent of design.

3.04 RECORDING AND ADJUSTING

A. Ensure recorded data represents actual measured or observed conditions.

B. Permanently mark settings of valves, dampers, and other adjustment devices allowing settings to be restored. Set and lock memory stops.

C. Mark on drawings the locations where traverse and other critical measurements were taken and cross reference the location in the final report.

D. After adjustment, take measurements to verify balance has not been disrupted or that such disruption has been rectified.

E. Leave systems in proper working order, replacing belt guards, closing access doors, closing doors to electrical switch boxes, and restoring thermostats to specified settings.

3.05 AIR SYSTEM PROCEDURE

A. Adjust air handling and distribution systems to provide required or design supply, return, and exhaust air quantities at site altitude.

B. Make air quantity measurements in ducts by Pitot tube traverse of entire cross sectional area of duct.

C. Measure air quantities at air inlets and outlets.

D. Adjust distribution system to obtain uniform space temperatures free from objectionable drafts and noise.

E. Use volume control devices to regulate air quantities only to extend that adjustments do not create objectionable air motion or sound levels. Effect volume control by duct internal devices such as dampers and splitters.

F. Vary total system air quantities by adjustment of fan speeds. Provide drive changes required. Vary branch air quantities by damper regulation.

G. Measure static air pressure conditions on air supply units, including filter and coil pressure drops, and total pressure across the fan. Make allowances for 50 percent loading of filters.

H. Measure temperature conditions across outside air, return air, and exhaust dampers to check leakage.

I. Where modulating dampers are provided, take measurements and balance at extreme conditions. Balance variable volume systems at maximum air flow rate, full cooling, and at minimum air flow rate, full heating.

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J. Measure building static pressure and adjust supply, return, and exhaust air systems to provide required relationship between each to maintain approximately 0.05 inches positive static pressure near the building entries.

K. For variable air volume system powered units set volume controller to air flow setting indicated. Confirm connections properly made and confirm proper operation for automatic variable air volume temperature control.

3.06 SCOPE

A. Test, adjust, and balance the following:
   1. Fans.
   2. Air Terminal Units.
   3. Air Inlets and Outlets.

END OF SECTION

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SECTION 23 07 13
DUCT INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Duct insulation.

B. Duct liner.

1.02 REFERENCE STANDARDS

A. ASTM C411 - Standard Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation.

B. ASTM C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus 2021.

C. ASTM C553 - Standard Specification for Mineral Fiber Blanket Thermal Insulation for Commercial and Industrial Applications 2013 (Reapproved 2019).

D. ASTM C916 - Standard Specification for Adhesives for Duct Thermal Insulation 2020.

E. ASTM C1071 - Standard Specification for Fibrous Glass Duct Lining Insulation (Thermal and Sound Absorbing Material) 2019.

F. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2023.

G. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials 2022a, with Editorial Revision (2023).

H. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi 2015, with Editorial Revision (2021).

I. UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials Current Edition, Including All Revisions.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide product description, thermal characteristics, list of materials and thickness for each service, and locations.

C. Manufacturer's Instructions: Indicate installation procedures necessary to ensure acceptable workmanship and that installation standards will be achieved.

1.04 QUALITY ASSURANCE

A. Applicator Qualifications: Company specializing in performing the type of work specified in this section, with minimum three years of experience and approved by manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Accept materials on site in original factory packaging, labelled with manufacturer's identification, including product density and thickness.

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B. Protect insulation from weather and construction traffic, dirt, water, chemical, and mechanical damage, by storing in original wrapping.

1.06 FIELD CONDITIONS

A. Maintain ambient temperatures and conditions required by manufacturers of adhesives, mastics, and insulation cements.

B. Maintain temperature during and after installation for minimum period of 24 hours.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

A. Surface Burning Characteristics: Flame spread index/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E84, UL 723, ASTM E84, or UL 723.

B. Insulation minimum thickness shall meet or exceed requirements as listed in International Energy Conservation Code, 2018.

2.02 GLASS FIBER, FLEXIBLE

A. Manufacturers:
   1. CertainTeed Corporation.
   2. Johns Manville Corporation.
   3. Knauf Insulation.
   4. Owens Corning Corp.

B. Insulation: ASTM C553; flexible, noncombustible blanket.
   1. K value: 0.25 at 75 degrees F, when tested in accordance with ASTM C518.
   2. Maximum Service Temperature: 450 degrees F.
   3. Maximum Water Vapor Absorption: 5.0 percent by weight.

C. Vapor Barrier Jacket:
   1. Kraft paper with glass fiber yarn and bonded to aluminized film.
   2. Moisture Vapor Permeability: 0.02 perm inch, when tested in accordance with ASTM E96/E96M.
   3. Secure with pressure-sensitive tape.

D. Vapor Barrier Tape:
   1. Kraft paper reinforced with glass fiber yarn and bonded to aluminized film, with pressure-sensitive rubber-based adhesive.

E. Tie Wire: Annealed steel, 16 gauge, 0.0508 inch diameter.

2.03 DUCT LINER

A. Manufacturers:
   1. CertainTeed Corporation.
   2. Johns Manville Corporation.
   3. Knauf Insulation.
   4. Owens Corning Corporation.

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B. Glass Fiber Insulation: Non-corrosive, incombustible glass fiber complying with ASTM C1071; flexible blanket, rigid board, and preformed round liner board; impregnated surface and edges coated with poly vinyl acetate polymer, acrylic polymer, or black composite.
   1. Fungal Resistance: No growth when tested according to ASTM G21.
   2. Apparent Thermal Conductivity: Maximum of 0.31 at 75 degrees F.
   3. Service Temperature: Up to 250 degrees F.
   4. Rated Velocity on Coated Air Side for Air Erosion: 5,000 fpm, minimum.
   5. Minimum Noise Reduction Coefficients:
      a. 1/2 inch Thickness: 0.30.
      b. 1 inch Thickness: 0.45.

C. Adhesive: Waterproof, fire-retardant type, ASTM C916.

D. Liner Fasteners: Galvanized steel, self-adhesive pad with integral head.

PART 3 EXECUTION

3.01 EXAMINATION

A. Test ductwork for design pressure prior to applying insulation materials.

B. Verify that surfaces are clean, foreign material removed, and dry.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install in accordance with NAIMA National Insulation Standards.

C. Insulated Ducts Conveying Air Below Ambient Temperature:
   1. Provide insulation with vapor barrier jackets.
   2. Finish with tape and vapor barrier jacket.
   3. Continue insulation through walls, sleeves, hangers, and other duct penetrations.
   4. Insulate entire system, including fittings, joints, flanges, fire dampers, flexible connections, and expansion joints.

D. Insulated Ducts Conveying Air Above Ambient Temperature:
   1. Insulate fittings and joints. Where service access is required, bevel and seal ends of insulation.

E. External Duct Insulation Application:
   1. Secure insulation with vapor barrier with wires and seal jacket joints with vapor barrier adhesive or tape to match jacket.
   2. Secure insulation without vapor barrier with staples, tape, or wires.
   3. Install without sag on underside of duct. Use adhesive or mechanical fasteners where necessary to prevent sagging. Lift duct off trapeze hangers and insert spacers.
   4. Seal vapor barrier penetrations by mechanical fasteners with vapor barrier adhesive.
   5. Stop and point insulation around access doors and damper operators to allow operation without disturbing wrapping.

F. Duct Liner Application:
   1. Adhere insulation with adhesive for 90 percent coverage.
   2. Secure insulation with mechanical liner fasteners. Refer to SMACNA (DCS) for spacing.
   3. Seal and smooth joints. Seal and coat transverse joints.

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4. Seal liner surface penetrations with adhesive.
5. Duct dimensions indicated are net inside dimensions required for air-flow. Increase duct size to allow for insulation thickness.

3.03 SCHEDULES

A. Exhaust Ducts Within 10 ft of Exterior Openings:
   1. Flexible Glass Fiber Duct Insulation: 2 inches thick.

B. Supply Ducts:
   1. Flexible Glass Fiber Duct Insulation: 2 inches thick.

C. Return Ducts with sound requirement:
   1. Duct Liner: 1/2 inches thick.

END OF SECTION

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SECTION 23 09 13
INSTRUMENTATION AND CONTROL DEVICES FOR HVAC

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Control panels.

B. HVAC&R Sensors:
   1. Temperature sensors.
   2. Static pressure (air pressure) sensors.

1.02 RELATED REQUIREMENTS

A. Section 23 09 23 - Direct-Digital Control System for HVAC.

B. Section 26 05 83 - Wiring Connections: Electrical characteristics and wiring connections.

1.03 REFERENCE STANDARDS

A. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum) 2020.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide description and engineering data for each control system component. Include sizing as requested. Provide data for each system component and software module.

C. Shop Drawings: Indicate complete operating data, system drawings, wiring diagrams, and written detailed operational description of sequences. Submit schedule of valves indicating size, flow, and pressure drop for each valve. For automatic dampers indicate arrangement, velocities, and static pressure drops for each system.

D. Operation and Maintenance Data: Include inspection period, cleaning methods, recommended cleaning materials, and calibration tolerances.

E. Project Record Documents: Record actual locations of control components, including panels, thermostats, and sensors. Accurately record actual location of control components, including panels, thermostats, and sensors.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

B. Installer Qualifications: Company specializing in performing the work of this section with minimum three years experience approved by manufacturer.

C. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.

1.06 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

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PART 2 PRODUCTS

2.01 EQUIPMENT - GENERAL

A. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.

2.02 CONTROL PANELS

A. Unitized cabinet type for each system under automatic control with relays and controls mounted in cabinet and temperature indicators, pressure gauges, pilot lights, push buttons and switches flush on cabinet panel face.

B. NEMA 250, general purpose utility enclosures with enameled finished face panel.

C. Provide common keying for all panels.

2.03 HVAC&R SENSORS

A. Temperature Sensors:
   1. Use thermistor or RTD type temperature sensing elements with characteristics resistant to moisture, vibration, and other conditions consistent with the application without affecting accuracy and life expectancy.
   2. Construct RTD of nickel or platinum with base resistance of 1000 ohms at 70 degrees F.
   3. 100 ohm platinum RTD is acceptable if used with project DDC controllers.
   4. Temperature Sensing Device: Compatible with project DDC controllers.
   5. Performance Characteristics:
      a. RTD:
         1) Duct Averaging Accuracy: Plus/minus 0.50 degrees F minimum.
         2) All Other Accuracy: Plus/minus 0.75 degrees F minimum.
         3) Range: Minus 40 degrees F through 220 degrees F minimum.
      b. Thermistor:
         1) Accuracy (All): Plus/minus 0.36 degrees F minimum.
         2) Range: Minus 25 degrees F through 122 degrees F minimum.
         3) Heat Dissipation Constant: 2.7 mW per degree C.
      c. Temperature Transmitter:
         1) Accuracy: 0.10 degree F minimum or plus/minus 0.20 percent of span.
         2) Output: 4 to 20 mA.
      d. Sensing Range:
         1) Provide limited range sensors if required to sense the range expected for a respective point.
         2) Use RTD type sensors for extended ranges beyond minus 30 to 230 degrees F.
         3) Use temperature transmitters in conjunction with RTD's when RTD's are incompatible with DDC controller direct temperature input.
      e. Wire Resistance:
         1) Use appropriate wire size to limit temperature offset due to wire resistance to 1.0 degree F or use temperature transmitter when offset is greater than 1.0 degree F due to wire resistance.
         2) Compensate for wire resistance in software input definition when feature is available in the DDC controller.

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f. Room Temperature Sensors:
   1) Construct for wall box mounting.
   2) Provide the following:
      a) Stainless steel flat plate matching existing.
g. Insertion Elements:
   1) Use in ducts not affected by temperature stratification or smaller than 11 sq inches.

B. Static Pressure (Air Pressure) Sensors:
   1. Unidirectional with ranges not exceeding 150 percent of maximum expected input.
   2. Temperature compensate with typical thermal error or 0.06 percent of full scale in temperature range of 40 to 100 degrees F.
   3. Accuracy: One percent of full scale with repeatability 0.3 percent.
   4. Output: 0 to 5 vdc with power at 12 to 28 vdc.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that systems are ready to receive work.

C. Beginning of installation means installer accepts existing conditions.

D. Sequence work to ensure installation of components is complementary to installation of similar components in other systems.

E. Coordinate installation of system components with installation of mechanical systems equipment such as air handling units and air terminal units.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Mount control panels adjacent to associated equipment on vibration free walls or free standing angle iron supports. One cabinet may accommodate more than one system in same equipment room. Provide engraved plastic nameplates for instruments and controls inside cabinet and engraved plastic nameplates on cabinet face.

C. Provide conduit and electrical wiring in accordance with Section 26 05 83. Electrical material and installation shall be in accordance with appropriate requirements.

END OF SECTION

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SECTION 23 09 23
DIRECT-DIGITAL CONTROL SYSTEM TRIDIUM JCI FX

PART 1 GENERAL

1.01 SECTION INCLUDES

A. System description.

B. Controllers.

C. Power supplies and line filtering.

D. System software.

E. Controller software.

F. HVAC control programs.

1.02 RELATED REQUIREMENTS

A. Section 23 09 13 - Instrumentation and Control Devices for HVAC.

1.03 REFERENCE STANDARDS

A. ASHRAE Std 135 - A Data Communication Protocol for Building Automation and Control Networks 2020, with Errata and Amendments (2022).

B. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Expand building control system to interface with new equipment and perform the sequence of operation specified. Modify automation system graphics to delete removed equipment and add new equipment.

B. Provide a color graphical representation of all systems. The graphical display shall include all points indicated in the pints list and any others required to achieve the sequences of operation. The graphical user interface shall consist of the following as a minimum;
   1. Menu bar navigation via windows-like bars.
   2. Navigation will also be available via an image of the building profile from which the user clicks on floors to bring up individual floor plans.
   3. The individual floor plan zones shall change color based upon the difference between the actual zone temperature and zone set point so that the operator can tell at a glance if zones are in, above or below acceptable ranges. A minimum of five (5) colors are required: Color 1 = within acceptable range of set point, Color 2 = warning - zone is above acceptable range of set point and approaching high temperature alarm; Color 3 = zone is in high temperature alarm; Color 4 = warning - zone is below acceptable range of set point and approaching low temperature alarm; Color 5 = zone is in low temperature alarm.
   4. Clicking on a floor plan zone shall bring up a dynamic color graphic of the mechanical equipment that serves that zone.
   5. Each major piece of mechanical equipment (terminal unit, AHU, boiler, chillers, cooling towers, etc.) shall have a pictorial dynamic color graphic. The central plant equipment may be

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combined as appropriate on one or more graphic page.

6. Text-based (non-pictorial) summary screens will also be provided so that the operator may view critical information on multiple units at once. Summary screens will be provided for terminal units and air handling units. Summary screens for VAV/FPVAV boxes will contain as a minimum room temperature, room temperature set point, occ/unocc status and CFM for each box. Summary screens for AHUs will contain as a minimum space temperature (CV units) or discharge temperature (VAV units) and the corresponding set point, static pressure (VAV units), OA damper position, mixed air temperature, fan status and occ/unocc status.
7. Clicking on a unit on any summary screen shall bring up the complete graphic for that unit.
8. Outside air temperature shall be displayed on each graphic screen.

1.05 OPEN, INTEROPERABLE, INTEGRATED ARCHITECTURES

A. The intent of this specification is to provide a peer-to-peer networked, stand-alone, distributed control system with the capability to integrate both the ANSI/ASHRAE Standard 135-1995 BACnet and LonWorks technology communication protocols in one open, interoperable system.

B. The supplied computer software shall employ object-oriented technology (OOT) for representation of all data and control devices within the system. In addition, adherence to industry standards including ANSI/ASHRAE Standard 135-1995, BACnet and LonMark to assure interoperability between all system components is required. For each LonWorks device that does not have LonMark certification, the device supplier must provide a XIF file for the device. For each BACnet device, the device supplier must provide a PICS document showing the installed device = s-compliance level. Minimum compliance is Level 3; with the ability to support data read and write functionality. Physical connection of BACnet devices shall be via Ethernet.

C. All components and controllers supplied under this contract shall be true peer-to-peer communicating devices. Components or controllers requiring polling by a host to pass data shall not be acceptable.

D. The supplied system must incorporate the ability to access all data using Java enabled browsers without requiring proprietary operator interface and configuration programs. An Open Database Connectivity (ODBC) or Structured Query Language (SQL) compliant server database is required for all system database parameter storage. This data shall reside on a supplier-installed server for all database access. Systems requiring proprietary database and user interface programs shall not be acceptable.

E. The installed system shall provide secure password access to all features, functions and data contained in the overall Building Management Control System (BMCS). Secure Socket Layer (SSL) encryption shall be an available option for remote access.

F. The installed system must be totally scalable to allow for future expansion with the addition of controllers and/or input/output devices. It shall not be necessary to remove equipment supplied under this contract to expand the system.

G. The failure of any single component or network shall not interrupt the control functions of non-affected devices. A single network failure shall only affect shared communications or shared data; individual application controllers and network controllers shall continue normal operation minus only the data from a remote device from the affected network. Automatic default values for all network transported data shall be provide to allow continued operation until the network is restored.

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H. The BMCS shall provide support for ODBC or SQL. An embedded database must be an ODBC-compliant database or must provide an ODBC data access mechanism to read and write dated stored within it. A minimum offering would be the documentation of database schemes to allow users to read/write data into other applications using appropriate ODBS syntax.

I. A hierarchical topology is required to assure reasonable system response times and to manage the flow and sharing of data.
   1. Maximum acceptable response time from any alarm occurrence (at the point of origin) to the point of annunciation shall not exceed 5 seconds for network connected user interfaces.
   2. Maximum acceptable response time from any alarm occurrence (at the point of origin) to the point of annunciation shall not exceed 60 seconds for remote or dial-up connected user interfaces.

1.06 WEB BROWSER CLIENTS

A. The system shall be capable of supporting an unlimited number of clients using a standard Web browser such as Internet Explorer. Systems requiring additional software (to enable a standard Web browser) to be resident on the client machine, or manufacturer-specific browsers shall not be acceptable.

B. The Web browser software shall run on any operating system and system configuration that is supported by the Web browser. Systems that require specific machine requirements in terms of processor speed, memory, etc., in order to allow the Web browser to function with the BMCS shall not be acceptable.

C. The Web browser shall provide the same view of the system, in terms of graphics, schedules, calendars, logs, etc., and provide the same interface methodology as is provided by the Graphical User Interface (GUI). Systems that require different views or that require different means of interacting with objects such as schedules, or logs, shall not be permitted.

D. The Web browser client shall support at a minimum, the following functions;
   1. User log-in identification and password shall be required. If an unauthorized user attempts access, a blank web page shall be displayed. Security using Java authentication and encryption techniques to prevent unauthorized access shall be implemented.
   2. Graphical screens developed for the GUI shall be the same screens used for the Web browser client. Any animated graphical objects supported by the GUI shall be supported by the Web browser interface.
   3. HTML programming shall not be required to display system graphics or data on a Web page. HTML editing of the Web page shall be allowed if the user desires a specific look or format.
   4. Storage of the graphical screens shall be in the Network Area Controller (NAC) without requiring any graphics to be stored on the client machine. Systems that require graphics storage on each client are not acceptable.

1.07 SUBMITTALS

A. Product Data: Include manufacturer's technical literature for each control device. Indicate dimensions, capacities, performance characteristics, electrical characteristics, finishes for materials, and installation and startup instructions for each type of product indicated.
   1. DDC System Hardware: Bill of materials of equipment indicating quantity, manufacturer, and model number. Include technical data for operator workstation equipment, interface equipment,

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control units, transducers/transmitters, sensors, actuators, valves, relays/switches, control panels, and operator interface equipment.
    a. Control System Software: Include technical data for operating system software, operator interface, color graphics, and other third-party applications.
  2. Controlled Systems: Instrumentation list with element name, type of device, manufacturer, model number, and product data. Include written description of sequence of operation including schematic diagram.

B. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
  1. Bill of materials of equipment indicating quantity, manufacturer, and model number.
  2. Schematic flow diagrams showing fans, pumps, coils, dampers, valves, and control devices.
  3. Wiring Diagrams: Power, signal, and control wiring.
  4. Details of control panel faces, including controls, instruments, and labeling.
  5. Written description of sequence of operation.
  6. Schedule of dampers including size, leakage, and flow characteristics.
  7. Schedule of valves including flow characteristics.
  8. DDC System Hardware:
    a. Wiring diagrams for control units with termination numbers.
    b. Schematic diagrams and floor plans for field sensors and control hardware.
    c. Schematic diagrams for control, communication, and power wiring, showing trunk data conductors and wiring between operator workstation and control unit locations.
  9. Control System Software: List of color graphics indicating monitored systems, data (connected and calculated) point addresses, output schedule, and operator notations.
  10. Controlled Systems:
    a. Schematic diagrams of each controlled system with control points labeled and control elements graphically shown, with wiring.
    b. Scaled drawings showing mounting, routing, and wiring of elements including bases and special construction.
    c. Written description of sequence of operation including schematic diagram.
    d. Points list.

C. Data Communications Protocol Certificates: Certify that each proposed DDC system component complies with ASHRAE 135.

D. Software and Firmware Operational Documentation: Include the following:
  1. Software operating and upgrade manuals.
  2. Program Software Backup: On a magnetic media or compact disc, complete with data files and points tables.
  3. Device address list.
  4. Printout of software application and graphic screens.
  5. Software license required by and installed for DDC workstations and control systems.

E. Software Upgrade Kit: For Owner to use in modifying software to suit future systems revisions or monitoring and control revisions.

F. Qualification Data: For installer.

G. Field quality-control test reports: Provide standard commissioning report for all systems.

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H. Operation and Maintenance Data: For HVAC instrumentation and control system to include in emergency, operation, and maintenance manuals. In addition to items specified in Division 01 Section "Operation and Maintenance Data," include the following:
   1. Maintenance instructions and lists of spare parts for each type of control device and compressed-air station.
   2. Interconnection wiring diagrams with identified and numbered system components and devices.
   3. Keyboard illustrations and step-by-step procedures indexed for each operator function.
   4. Inspection period, cleaning methods, cleaning materials recommended, and calibration tolerances.
   5. Calibration records and list of set points.

I. Project Record Documents: Record actual locations of control components, including control units, thermostats, and sensors.
   1. Revise shop drawings to reflect actual installation and operating sequences.

1.08 QUALITY ASSURANCE

A. Installer Qualifications: Automatic control system manufacturer's authorized representative who is trained and approved for installation of system components required for this Project.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

C. All technician’s labor shall be by Tridium N4 certified and factory trained employees with 5 or more years of experience on the new and existing systems. Subcontracting of technician’s labor is unacceptable. All electrical installation shall be by Building Automation specialty electrical contractors directly employed and managed by the BAS contractor.

D. All line voltage devices shall be UL or ETL listed

E. Comply with ASHRAE 135 for DDC system components.
   1. All new devices shall be BACnet MSTP
   2. All new devices must BTL listed. No exception or substitutions

1.09 WARRANTY

A. Warranty: Provide 2 Year Parts and Labor Factory Authorized Warranty Service for all new components and all labor provided on the project. Update all software to latest version available during warranty period at no additional cost to owner.

1.10 PROTECTION OF SOFTWARE RIGHTS

A. Prior to delivery of software, the Owner and the party providing the software will enter into a software license agreement with provisions for the following:
   1. Limiting use of software to equipment provided under these specifications.
   2. Limiting copying.
   3. Preserving confidentiality.
   4. Prohibiting transfer to a third party.

B. Provide Owner administrative rights after warranty period expires.

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1.11 DELIVERY, STORAGE, AND HANDLING

A. Factory-Mounted Components: Where control devices specified in this Section are indicated to be factory mounted on equipment, arrange for shipping of control devices to equipment manufacturer.

B. System Software: Update to latest version of software at Project completion.

1.12 COORDINATION

A. Coordinate location of thermostats, humidistats, and other exposed control sensors with plans and room details before installation.

B. Coordinate equipment with Division 23 Sections for compatibility. Control contractor to provide all necessary devices for a complete and fully operational system for all equipment.

C. Coordinate supply of conditioned electrical branch circuits for control units and operator workstation.

D. Coordinate equipment with Division 26 achieve compatibility of communication interfaces.

E. Coordinate equipment with Division 26 to achieve compatibility with starter coils and annunciation devices.

F. Coordinate equipment with Division 26 to achieve compatibility with motor starters and annunciation devices.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Controllers:
   1. Manufacturers:
      a. Johnson - FX-PC series, BTL Listed, BACnet MSTP devices. Proprietary controllers (Metasys) will not be allowed.
   2. Software required to program the supervisory & field level controllers shall be made available to the Owner, and left on the BAS Server at project completion by the BAS Contractor.
   3. Controllers to have 10% spare IO for future use.

B. End Devices
   1. All end devices shall be by manufacturers as specified below.

2.02 SYSTEM DESCRIPTION

A. Control System
   1. Manufacturers:
      a. Johnson Facility Explorer (Tridium Niagara 4) BACnet Open Protocol Web Based System with server (N4 Supervisor). Proprietary systems (Metasys) will not be allowed.
   2. Installers:
      a. F.E. Moran. Contact Kevin: 224-45-7702.
   3. Control system shall consist of sensors, indicators, actuators, final control elements, interface equipment, other apparatus, accessories, and software connected to distributed controllers operating in multiuser, multitasking environment to provide a complete and fully operational system of controls for all new and existing equipment shown on the plans and described in the

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specifications.

4. All graphics shall be web based using HTML5 over TCP/IP. Provide a free Android or iPhone APP with custom scaled graphics for all equipment. App shall be free with no user subscription fees and have scaled custom graphics for all HVAC systems & associated features.

B. Install a new controller for each existing piece of equipment communicating to the web server over BACnet MSTP protocol using RS485 wiring

C. Non-critical equipment (exhaust fans, unit heaters, etc.) may be connected to nearby controllers or grouped logically into a dedicated controller for multiple units.

D. Install all new sensors and actuators for all equipment, wired to new controllers. Include all necessary relays, transformers and enclosures for a complete and fully operational system.

E. Install all field wiring per NEC and install all wiring in conduit if it is in an exposed area or mechanical space.

F. Provide stand-alone wiring and interlocks for all equipment and controls as necessary for a complete and fully operational system.

G. Provide spring return actuators for all dampers or valves that could be subject to freezing or create an unsafe condition.

H. System shall include controls and programming to meet energy code including demand control ventilation and critical zone reset of fan speed for VAV systems.

I. The owner shall provide VPN access for service to provide ongoing user support, warranty and maintenance.

J. Include installation and calibration, supervision, adjustments, and fine tuning necessary for complete and fully operational system.

2.03 GRAPHICS DISPLAY

A. Operator's workstation shall display all data associated with project as called out on drawings and/or object type list supplied. Graphic files shall be created using digital, full color photographs of system installation, AutoCAD, GraphICS or Visio drawing files of field installation drawings and wiring diagrams from as-built drawings. Operator's workstation shall display all data using three-dimensional graphic representations of all mechanical equipment. System shall be capable of displaying graphic file, text, and dynamic object data together on each display and shall include animation. Information shall be labeled with descriptors and shall be shown with the appropriate engineering units. All information on any display shall be dynamically updated without any action by the user. Workstation shall allow user to change all field-resident EMCS functions associated with the project, such as setpoints, weekly schedules, exception schedules, etc. from any screen no matter if that screen shows all text or a complete graphic display. This shall be done without any reference to object addresses or other numeric/mnemonic indications.

B. Provide complete and easy to use color graphics user interface, including:
   1. A unique graphical representation or all equipment with adjustable setpoints and alarms
   2. 3D Floor Plans with zones identified and color coding of alarm conditions (flood fill red for above setpoint, blue for below setpoint).
   3. Provide room numbers and equipment tags for all equipment on plans.

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4. Navigation tree for access to all equipment and plans.
5. Clicking on any floor plan equipment tag will navigate to unique equipment graphic.
6. All setpoints shall have user adjustable alarm ranges.
7. Time of day scheduling for all equipment easily adjustable by the user.
8. Adjustable Alarm ranges and alarm history page.

C. Binary objects shall be displayed as ACTIVE/INACTIVE/NULL or with customized text. Text shall be justified left, right or center as selected by the user. Also, allow binary objects to be displayed as individual change-of-state graphic objects on the display screen such that they overlay the system graphic. Each binary object displayed in this manner shall be assigned up to three graphic files for display when the point is ON, OFF or in alarm. For binary outputs, toggle the object's commanded status when the graphic item is selected with the system mouse. Similarly, allow the workstation operator to toggle the binary object's status by selecting with the mouse a graphic of a switch or light, for example, which then displays a different graphic (such as an "ON" switch or lighted lamp). Additionally, allow binary objects to be displayed as an animated graphic. Animated graphic objects shall be displayed as a sequence of multiple graphics to simulate motion. For example: when a pump is in the OFF condition, display a stationary graphic of the pump. When the operator selects the pump graphic with the mouse, the represented object's status is toggled and the graphic of the pump's impeller rotates in a time-based animation. The operator shall be able to click on an animated graphical object or switch it from the OFF position to ON, or ON to OFF. Allow operator to change graphic file assignment and also create new and original graphics online. System shall be supplied with a library of standard graphics, which may be used unaltered or modified by the operator. Systems that do not allow customization or creation of new graphic objects by the operator (or with third-party software) shall not be allowed.

D. Analog objects shall be displayed with operator modifiable units. Analog input objects may also be displayed as individual graphic items on the display screen as an overlay to the system graphic. Each analog input object may be assigned a minimum of five graphic files, each with high/low limits for automatic selection and display of these graphics. As an example, a graphic representation of a thermometer would rise and fall in response to either the room temperature or its deviation from the controlling setpoint. Analog output objects, when selected with the mouse, shall be displayed as a prompted dialog (text only) box. Selection for display type shall be individual for each object. Analog object values may be changed by selecting either the "increase" or "decrease" arrow in the analog object spinner box without using the keypad. Pressing the button on the right side of the analog object spinner box allows direct entry of an analog value and accesses various menus where the analog value may be used, such as trend logs.

E. Analog objects may also be assigned to an area of a system graphic, where the color of the defined area changes based on the analog object's value. For example, an area of a floor-plan graphic served by a single control zone would change color with respect to the temperature of the zone or its deviation from setpoint. All editing and area assignment shall be created or modified online using simple icon tools.

F. A customized menu label (push-button) shall be used for display selection. Menu items on a display shall allow penetration to lower level displays or additional menus. Dynamic point information and menu label push buttons may be mixed on the same display to allow sub- displays to exist for each item. Each display may be protected from viewing unless operator has appropriate security level. A security level may be assigned to each display and system object. The menu label

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shall not appear on the graphic if the operator does not have the appropriate security level.

G. G. A mouse shall be used to move the pointer arrow to the desired item for selection of new display or to allow the operator to make changes to object data.

2.04 WEB INTERFACE

A. General
   1. BAS supplier shall provide web-based access to the system as part of standard installation. User shall be able to access all displays of real-time data that are part of the BAS via a standard Web browser. Web browser shall tie into the network via owner- supplied Ethernet network connection. The web-page software shall not require a per user licensing fee or annual fees. The web-page host must be able to support on average 50 simultaneous users with the ability to expand the system to accommodate an unlimited number of users.

B. Browser Technology
   1. Browser shall be standard version of Microsoft Internet Explorer, Google Chrome, or Mozilla Firefox. No special vendor-supplied software shall be needed on computers running browser. All displays shall be viewable and the Web-page host shall directly access real-time data from the BAS BACnet network. Data shall be displayed in real time and update automatically without user interaction. User shall be able to change data on displays if logged in with the appropriate user name and password.

C. Communications
   1. Web-page host shall include two Ethernet network connections. One network connection shall be dedicated to BAS BACnet network and shall be used to gather real-time data from all the BACnet devices that form the BAS. This network shall communicate via BACnet, allowing the Web-page host to gather data directly from units on the local LAN or from other projects connected over a WAN. This network shall also provide the connection to the BAS server for Web page generation.
   2. The second Ethernet connection shall provide the physical connection to the Internet or an IP-based WAN. It shall be the port that is used for the browser to receive Web pages and data from the Web-page host. The Web-page host shall act as a physical barrier between the BAS network and the WAN or Internet connection that allows the browser to receive web pages and data. The two separate network connections provide for a physical barrier to prevent raw BACnet traffic being exposed on the IP network.
   3. The Web-page host shall provide for complete isolation of the IP and BACnet networks by not routing networking packets between the two networks.
   4. BAS BACnet Ethernet network shall be provided and installed by the BAS supplier. Owner shall provide and incur any monthly charges of WAN/Internet connection.

D. Display of Data
   1. Web page graphics shown on browser shall be replicas of the BAS displays. User shall need no additional training to understand information presented on Web pages when compared to what is shown on BAS displays. Web page displays shall include animation just as BAS displays. Fans shall turn, pilot lights shall blink, coils shall change colors, and so on.
   2. Real-time data shall be shown on all browser Web pages. This data must be directly gathered via the BACnet network and automatically updated on browser Web page displays without any user action. Data on the browser shall automatically refresh as changes are detected without

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re-drawing the complete display.

3. It shall be possible for user from browser Web page to change data if the user is logged on with the appropriate password. Clicking on a button or typing in a new value shall change digital data. Using pull-down menus or typing in a new value shall change analog data.
4. Data displays shall be navigated using pushbuttons on the displays that are simply clicked on with the mouse to select a new display. Alternatively, the standard back and forward buttons of the browser can be used for display navigation.

E. Time Schedule Adjustment
1. Web access shall allow user to view and edit all schedules in the system. This includes standard, holiday and event schedules as described in BAS specification. Display of schedules shall show interaction of all schedules on a single display so user sees an overview of how all work together. User shall be able to edit schedules from this display.
2. Display of all 3 schedules must show all ON times for standard, holiday and event schedules in different colors on a given day. In addition, OFF times for each must also be shown in additional colors. User shall be able to select from standard calendar what days are to be scheduled and same display shall show all points and zones affected. User shall be able to set time for one day and select all days of the week that shall be affected as a recurrence of that same schedule for that given day.
3. Schedule list shall show all schedules currently defined. This list shall include all standard, holiday and event schedules. In addition, user shall be able to select a list that shows all scheduled points and zones.

F. Logging of Information
1. User shall use standard browser technology to view all trend logs in system. User shall be able to view logged data in tabular form or graphical format. User shall be able to adjust time interval of logged data viewed and shall be able to adjust y axis of data viewed in graphical format. User shall also be able to down-load data through the web interface to local computer. Data shall be in CSV format.

G. Alarm Handling
1. Web interface shall display alarms as they occur. User shall be able to acknowledge alarms using browser technology. In addition, user shall be able to view history of alarm occurrence over a user selected time frame. In addition, those alarms may be filtered for viewing per user selected options. A single selection shall display all alarms that have not been acknowledged.

H. Web Page Generation
1. Web pages shall be generated automatically from the BAS displays that reside on the BAS server. User shall access Web-page host via the network and shall initiate a web page generation utility that automatically takes the BAS displays and turns them into Web pages. The Web pages generated are automatically installed on the Web page host for access via any computer's standard browser.

I. Password Security and Activity Log
1. Access via Web browser shall utilize the same hierarchical security scheme as BAS system. User shall be asked to log in once the browser makes connection to Web-page host. Once the user logs in, any and all changes that are made shall be tracked by the BAS system. The user shall be able to change only those items that the user has authority to change. A user activity report shall show any and all activity of the users that have logged in to the system regardless

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of whether those changes were made using a browser or via the BAS workstation.

J. BACnet Communication
   1. Web server shall directly communicate to all devices on the BAS network using BACnet protocol. No intermediate devices shall be necessary for BACnet communication.

2.05 UNITARY CONTROLLERS

A. Unitized, capable of stand-alone operation with sufficient memory to support its operating system, database, and programming requirements, and with sufficient I/O capacity for the application.
   1. Configuration: Local keypad and display; diagnostic LEDs for power, communication, and processor; wiring termination to terminal strip or card connected with ribbon cable; memory with bios; and 72-hour battery backup.
   2. Operating System: Manage I/O communication to allow distributed controllers to share real and virtual object information and allow central monitoring and alarms. Perform automatic system diagnostics; monitor system and report failures.
   3. ASHRAE 135 Compliance: Communicate using read (execute and initiate) and write (execute and initiate) property services defined in ASHRAE 135. Reside on network using MS/TP datalink/physical layer protocol and have service communication port for connection to diagnostic terminal unit.
   4. Enclosure: Dustproof rated for operation at 32 to 120 deg F.
   5. Enclosure: Waterproof rated for operation at 40 to 150 deg F.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that conditioned power supply is available to the control units and to the operator work station. Verify that field end devices, wiring, and pneumatic tubing is installed prior to installation proceeding.

3.02 INSTALLATION

A. Install control units and other hardware in position on permanent walls where not subject to excessive vibration.

B. Install software in control units and in operator work station. Implement all features of programs to specified requirements and appropriate to sequence of operation.

C. Provide conduit and electrical wiring in accordance with division 26. Electrical material and installation shall be in accordance with appropriate requirements of Division 26.
   1. Provide conduit for all control wiring exposed to view. This includes but is not limited to all storage rooms, mechanical rooms, and similar spaces.
   2. Provide conduit for all control wiring concealed in inaccessible spaces. This includes but is not limited to wiring above/behind drywall and plaster ("hard") ceilings or soffits, and wiring within vertical chase spaces, regardless of whether access doors are provided or not.
   3. Control wiring that is concealed above readily accessible ceilings such as acoustical lay-in ceilings, need not be run in conduit.

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D. All exposed conduit wiring that is not located above an accessible ceiling shall be installed in conduit. This includes all storage room, mechanical rooms, etc.

3.03 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust field-assembled components and equipment installation, including connections, and to assist in field testing. Report results in writing.

B. Perform the following field tests and inspections and prepare test reports:
   1. Operational Test: After electrical circuitry has been energized, start units to confirm proper unit operation. Remove and replace malfunctioning units and retest.
   2. Test and adjust controls and safeties.
   3. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
   4. Pressure test control air piping at 30 psig or 1.5 times the operating pressure for 24 hours, with maximum 5-psig loss.
   5. Pressure test high-pressure control air piping at 150 psig and low-pressure control air piping at 30 psig for 2 hours, with maximum 1-psig loss.
   6. Test calibration of electronic controllers by disconnecting input sensors and stimulating operation with compatible signal generator.
   7. Test each point through its full operating range to verify that safety and operating control set points are as required.
   8. Test each control loop to verify stable mode of operation and compliance with sequence of operation. Adjust PID actions.
   9. Test each system for compliance with sequence of operation.
   10. Test software and hardware interlocks.

C. DDC Verification:
   1. Verify that instruments are installed before calibration, testing, and loop or leak checks.
   2. Check instruments for proper location and accessibility.
   3. Check instrument installation for direction of flow, elevation, orientation, insertion depth, and other applicable considerations.
   4. Check instrument tubing for proper fittings, slope, material, and support.
   5. Check installation of air supply for each instrument.
   6. Check flow instruments. Inspect tag number and line and bore size, and verify that inlet side is identified and that meters are installed correctly.
   7. Check pressure instruments, piping slope, installation of valve manifold, and self-contained pressure regulators.
   8. Check temperature instruments and material and length of sensing elements.
   9. Check control valves. Verify that they are in correct direction.
   10. Check air-operated dampers. Verify that pressure gages are provided and that proper blade alignment, either parallel or opposed, has been provided.
   11. Check DDC system as follows:
      a. Verify that DDC controller power supply is from emergency power supply, if applicable.
      b. Verify that wires at control panels are tagged with their service designation and approved tagging system.
      c. Verify that spare I/O capacity has been provided.

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d. Verify that DDC controllers are protected from power supply surges.

D. Replace damaged or malfunctioning controls and equipment and repeat testing procedures.

3.04 ADJUSTING

A. Calibrating and Adjusting:
   1. Calibrate instruments.
   2. Make three-point calibration test for both linearity and accuracy for each analog instrument.
   3. Calibrate equipment and procedures using manufacturer's written recommendations and instruction manuals. Use test equipment with accuracy at least double that of instrument being calibrated.
   4. Control System Inputs and Outputs:
      a. Check analog inputs at 0, 50, and 100 percent of span.
      b. Check analog outputs using milliampere meter at 0, 50, and 100 percent output.
      c. Check digital inputs using jumper wire.
      d. Check digital outputs using ohmmeter to test for contact making or breaking.
      e. Check resistance temperature inputs at 0, 50, and 100 percent of span using a precision-resistant source.
   5. Flow:
      a. Set differential pressure flow transmitters for 0 and 100 percent values with 3-point calibration accomplished at 50, 90, and 100 percent of span.
      b. Manually operate flow switches to verify that they make or break contact.
   6. Pressure:
      a. Calibrate pressure transmitters at 0, 50, and 100 percent of span.
      b. Calibrate pressure switches to make or break contacts, with adjustable differential set at minimum.
   7. Temperature:
      a. Calibrate resistance temperature transmitters at 0, 50, and 100 percent of span using a precision-resistance source.
      b. Calibrate temperature switches to make or break contacts.
   8. Stroke and adjust control valves and dampers without positioners, following the manufacturer's recommended procedure, so that valve or damper is 100 percent open and closed.
   9. Stroke and adjust control valves and dampers with positioners, following manufacturer's recommended procedure, so that valve and damper is 0, 50, and 100 percent closed.
   10. Provide diagnostic and test instruments for calibration and adjustment of system.
   11. Provide written description of procedures and equipment for calibrating each type of instrument. Submit procedures review and approval before initiating startup procedures.

B. Adjust initial temperature and humidity set points.

3.05 MANUFACTURER'S FIELD SERVICES

A. Start and commission systems. Allow sufficient time for start-up and commissioning prior to placing control systems in permanent operation.

B. Provide service engineer to instruct Owner's representative in operation of systems plant and equipment for 1/2 day period.

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C. Provide basic operator training for unlimited persons on data display, alarm and status descriptors, requesting data, execution of commands and request of logs. Include a minimum of 4 hours dedicated instructor time. Provide training on site.

3.06 DEMONSTRATION AND INSTRUCTIONS

A. Demonstrate complete and operating system to Owner.

END OF SECTION

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SECTION 23 31 00
HVAC DUCTS AND CASINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Metal ducts.

B. Flexible ducts.

1.02 RELATED REQUIREMENTS

A. Section 23 07 13 - Duct Insulation: External insulation and duct liner.

B. Section 23 33 00 - Air Duct Accessories.

C. Section 23 36 00 - Air Terminal Units.

D. Section 23 37 00 - Air Outlets and Inlets: Fabric air distribution devices.

1.03 REFERENCE STANDARDS

A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process 2022.

B. NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilating Systems 2021.

C. SMACNA (DCS) - HVAC Duct Construction Standards Metal and Flexible 2021.

D. UL 181 - Standard for Factory-Made Air Ducts and Air Connectors Current Edition, Including All Revisions.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data for flexible duct materials.

C. Shop Drawings: Indicate duct fitting types, gauges, sizes, welds, and configuration.

D. Project Record Documents: Record actual locations of ducts and duct fittings. Record changes in fitting location and type. Show additional fittings used.

1.05 REGULATORY REQUIREMENTS

A. Construct ductwork to NFPA 90A standards.

1.06 FIELD CONDITIONS

A. Do not install duct sealants when temperatures are less than those recommended by sealant manufacturers.

B. Maintain temperatures within acceptable range during and after installation of duct sealants.

PART 2 PRODUCTS

2.01 METAL DUCTS

A. Material Requirements:

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1. Galvanized Steel: Hot-dipped galvanized steel sheet, ASTM A653/A653M FS Type B, with G60/Z180 coating.

2.02 FLEXIBLE DUCTS

A. Flexible Ducts: UL 181, Class 1, polyethylene film, mechanically fastened and rolled using galvanized steel to form a spiral helix.
   1. Insulation: R6 insulation with aluminized vapor barrier film.
   2. Pressure Rating: 10 in-wc positive and 5 in-wc negative.
   3. Maximum Velocity: 5500 fpm.
   4. Temperature Range: Minus 20 degrees F to 250 degrees F.
   5. Manufacturers:
      a. Flexmaster USA, a brand of Masterduct, Inc; Type 1.

B. Acoustic Flexible Ducts: UL 181, Class 1, spun-bond nylon, mechanically fastened and rolled using galvanized steel to form a spiral helix.
   1. Insulation: R6 insulation with aluminized vapor barrier film.
   2. Pressure Rating: 6 in-wc positive and 5 in-wc negative.
   3. Maximum Velocity: 4000 fpm.
   4. Temperature Range: Minus 20 degrees F to 250 degrees F.
   5. Accessories;
      a. Flex Duct kit. Maximum length 5 feet.
   6. Manufacturers:
      a. Flexmaster USA, a brand of Masterduct, Inc; Type 6.
      b. Substitutions: Not permitted.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install, support, and seal ducts in accordance with SMACNA (DCS).

B. Install products following the manufacturer's instructions.

C. During construction, provide temporary closures of metal or taped polyethylene on open ductwork to prevent construction dust from entering the ductwork system.

D. Increase duct sizes gradually, not exceeding 15 degrees divergence wherever possible; maximum 30 degrees divergence upstream of equipment and 45 degrees convergence downstream.

E. Flexible Ducts: Connect to metal ducts with mechanical fastener.

F. Install acoustical flexible duct downstream of VAV boxes.

G. Duct sizes indicated are inside precise dimensions. For lined ducts, maintain sizes inside lining.

H. Duct sizes indicated shall be of sizes indicated. However, necessary changes in shape offsets or crossovers to clear piping, lighting, building construction obstructions, etc. shall be made without additional cost.

I. Provide openings in ductwork as indicated to accommodate thermometers and controllers. Provide pilot tube openings as indicated for testing of systems, complete with metal can with spring device

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or screw to insure against air leakage. For openings, insulate ductwork and install insulation material inside a metal ring.

J. Locate ducts with sufficient space around equipment to allow normal operating and maintenance activities.

K. Use double nuts and lock washers on threaded rod supports.

L. Connect terminal units to supply ducts directly or with 1 feet maximum length of flexible duct. Do not use flexible duct to change direction.

M. Connect diffusers or light troffer boots to low-pressure ducts directly or with 5 feet maximum length of flexible duct held in place with strap or clamp.

END OF SECTION

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SECTION 23 33 00
AIR DUCT ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Air turning devices/extractors.

B. Return air canopy.

C. Duct test holes.

D. Flexible duct connectors.

E. Flexible duct forming brace.

F. Volume control dampers.

G. Miscellaneous products:
   1. Internal strut end plugs.
   2. Duct opening closure film.

1.02 RELATED REQUIREMENTS

A. Section 23 31 00 - HVAC Ducts and Casings.

B. Section 23 36 00 - Air Terminal Units: Pressure regulating damper assemblies.

1.03 REFERENCE STANDARDS

A. NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilating Systems 2021.

B. SMACNA (DCS) - HVAC Duct Construction Standards Metal and Flexible 2021.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide for shop fabricated assemblies including volume control dampers. Include electrical characteristics and connection requirements.

C. Shop Drawings: Indicate for shop fabricated assemblies including volume control dampers.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Protect dampers from damage to operating linkages and blades.

PART 2 PRODUCTS

2.01 AIR TURNING DEVICES/EXTRACTORS

A. Multi-blade device with blades aligned in short dimension; steel construction; with individually adjustable blades, mounting straps.

2.02 RETURN AIR CANOPY

A. Manufacturer's:
   1. Titus; Model RCP.

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2. Price; Model RAC.

B. Performance:
   1. Return air canopy performance characteristics, including noise reduction and pressure drop, shall be attained through testing using modified ASTM Standard E477.
   2. Laboratory performance verification in the manufacturer's test facility may be requested, in which case a comparative test report shall be made available to the engineer.

C. Construction:
   1. Return air canopies shall be constructed in accordance with ASHRAE and SMACNA Standards for the pressure and velocity classification specified for the air distribution system in which it is installed.
   2. Return air canopies shall be constructed of:
      a. 20-gauge solid steel casing
   3. Acoustic media:
      a. Absorptive acoustic fiberglass media.
   4. Acoustic media:
      a. Fiberglass media:
         1) Acoustic media shall be shot-free inorganic glass fiber with long, resilient fibers, bonded with thermosetting resin.
         2) Glass fiber shall be in accordance with erosion requirements of UL 181 and shall conform to the physical properties and requirements of ASTM C1071.

D. Fire-Performance Characteristics:
   1. Air transfer silencer assemblies, including acoustic media fill, sealants, and acoustical spacers shall have combustion rating equal to or less than shown below when tested according to ASTM E84, NFPA 255 or UL 723:
   2. Flame-spread index not exceeding 25
   3. Smoke-developed index not exceeding 50

2.03 DUCT TEST HOLES

A. Temporary Test Holes: Cut or drill in ducts as required. Cap with neat patches, neoprene plugs, threaded plugs, or threaded or twist-on metal caps.

B. Permanent Test Holes: Factory fabricated, air tight flanged fittings with screw cap. Provide extended neck fittings to clear insulation.

2.04 FLEXIBLE DUCT CONNECTORS

A. Fabricate in accordance with SMACNA (DCS) and as indicated.

B. Flexible Duct Connections: Fabric crimped into metal edging strip.
   1. Fabric: UL listed fire-retardant neoprene coated woven glass fiber fabric to NFPA 90A, minimum density 30 oz/sq yd.

2.05 FLEXIBLE DUCTS FORMING BRACE

A. Manufacturers:
   1. Titus; Model FlexRight.
   2. Thermaflex; Model FlexFlow Elbow.
   3. Substitutions: See Section 01 60 00 - Product Requirements.

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B. UL Listed. Radius forming brace to hold flexible duct into a 90 degree elbow. Fits flexible duct sizes and diffuser inlets from 4 inches to 16 inches in diameter. Manufactured from copolymer polyproylene.

2.06 VOLUME CONTROL DAMPERS

A. Manufacturers:
   1. Ruskin Company.
   2. Pottorff.
   3. Greenheck.

B. Fabricate in accordance with SMACNA (DCS) and as indicated.

C. End Bearings: Except in round ducts 12 inches and smaller, provide end bearings. On multiple blade dampers, provide oil-impregnated nylon, thermoplastic elastomer, or sintered bronze bearings.

D. Quadrants:
   1. Provide locking, indicating quadrant regulators on single and multi-blade dampers.
   2. On insulated ducts mount quadrant regulators on stand-off mounting brackets, bases, or adapters.

2.07 MISCELLANEOUS PRODUCTS

A. Internal Strut End Plugs: Combination end-mounting and sealing plugs for metal conduit used as internal reinforcement struts for metal ducts; plug crimped inside conduit with outside gasketed washer seal.

B. Duct Opening Closure Film: Mold-resistant, self-adhesive film to keep debris out of ducts during construction.
   1. Thickness: 2 mils.
   2. High tack water based adhesive.
   3. UV stable light blue color.
   4. Elongation Before Break: 325 percent, minimum.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install accessories in accordance with manufacturer's instructions, NFPA 90A, and follow SMACNA (DCS). See Section 23 31 00 for duct construction and pressure class.

B. Provide duct test holes where indicated and required for testing and balancing purposes.

C. At fans and motorized equipment associated with ducts, provide flexible duct connections immediately adjacent to the equipment.

D. At equipment supported by vibration isolators, provide flexible duct connections immediately adjacent to the equipment.

E. Provide balancing dampers at points on supply, return, and exhaust systems where branches are taken from larger ducts as required for air balancing. Install minimum 2 duct widths from duct take-off.

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F. Provide balancing dampers on duct take-off to diffusers, grilles, and registers, regardless of whether dampers are specified as part of the diffuser, grille, or register assembly.

END OF SECTION

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SECTION 23 34 23
HVAC POWER VENTILATORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Ceiling exhaust fans.

1.02 REFERENCE STANDARDS

A. AMCA 99 - Standards Handbook 2016.

B. AMCA 204 - Balance Quality and Vibration Levels for Fans 2020.

C. AMCA 210 - Laboratory Methods of Testing Fans for Certified Aerodynamic Performance Rating 2016.

D. AMCA 300 - Reverberant Room Method for Sound Testing of Fans 2014.

E. AMCA 301 - Methods for Calculating Fan Sound Ratings from Laboratory Test Data 2022.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on fans and accessories, including fan curves with specified operating point plotted, power, rpm, sound power levels at rated capacity, and electrical characteristics and connection requirements.

C. Maintenance Data: Include instructions for lubrication, motor and drive replacement, spare parts list, and wiring diagrams.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section, with minimum three years of documented experience.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Greenheck.

B. Loren Cook Company; Model ACE-B.

C. Twin City Fan & Blower.

2.02 POWER VENTILATORS - GENERAL

A. Static and Dynamically Balanced: Comply with AMCA 204.

B. Performance Ratings: Comply with AMCA 210, bearing certified rating seal.

C. Sound Ratings: Comply with AMCA 301, tested to AMCA 300, bearing certified sound ratings seal.

D. Fabrication: Comply with AMCA 99.

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E. Electrical Components: Listed and classified by Underwriters Laboratories Inc. as suitable for the purpose specified and indicated.

2.03 CEILING EXHAUST FANS

A. Centrifugal Fan Unit: Direct driven with galvanized steel housing lined with acoustic insulation, resiliently mounted motor, gravity backdraft damper in discharge.

B. Disconnect Switch: Cord and plug-in housing for thermal overload protected motor.

C. Grille: Aluminum with baked white enamel finish.

D. Outlet: Round duct connection.

E. Accessories:
   1. Pre-wired speed controller.
   2. Curb mounted roof cap.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install backdraft dampers on inlet to roof and wall exhausters.

END OF SECTION

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SECTION 23 36 00
AIR TERMINAL UNITS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Single-duct terminal units.
   1. Variable-volume units.

1.02 RELATED REQUIREMENTS

A. Section 23 09 23 - Direct-Digital Control System for HVAC.

B. Section 23 31 00 - HVAC Ducts and Casings.

1.03 REFERENCE STANDARDS

A. AHRI 880 (I-P) - Performance Rating of Air Terminals 2017.

B. ASHRAE Std 130 - Laboratory Methods of Testing Air Terminal Units 2016.

C. ASTM C1071 - Standard Specification for Fibrous Glass Duct Lining Insulation (Thermal and Sound Absorbing Material) 2019.

D. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum) 2020.

E. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

F. NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilating Systems 2021.

G. UL 181 - Standard for Factory-Made Air Ducts and Air Connectors Current Edition, Including All Revisions.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data indicating configuration, general assembly, and materials used in fabrication. Include catalog performance ratings that indicate airflow, static pressure, and NC designation. Include electrical characteristics and connection requirements.

C. Shop Drawings: Indicate configuration, general assembly, and materials used in fabrication, and electrical characteristics and connection requirements.
   1. Include schedules listing discharge and radiated sound power level for each of the second through sixth-octave bands at inlet static pressures of 1 to 4 in-wc.

D. Project Record Documents: Record actual locations of units and controls components and locations of access doors required for access of valving.

E. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, maintenance and repair data, and parts lists. Include directions for resetting constant-volume regulators.

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1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section, with minimum three years of documented experience.

PART 2 PRODUCTS

2.01 SINGLE-DUCT, VARIABLE-VOLUME UNITS

A. Manufacturers:
   1. Titus.
   2. Price Industries, Inc.
   3. Nailor.
   4. Substitutions: See Section 01 60 00 - Product Requirements.

B. General:
   1. Factory-assembled, AHRI 880 (I-P) rated and bearing the AHRI seal, air volume control terminal with damper assembly, flow sensor, externally mounted volume controller, duct collars, and all required features.
   2. Control box bearing identification, including but not necessarily limited to nominal cfm, maximum and minimum factory-set airflow limits, coil type and coil (right or left hand) connection, where applicable.

C. Unit Casing:
   1. Minimum 22 gauge, 0.0299 inch galvanized steel.
      a. Assembled with longitudinal lock seam construction.
      b. Casing leakage to meet ASHRAE Std 130.
   2. Air Inlet Collar: Provide round, suitable for standard flexible duct sizes.
   3. Unit Discharge: Rectangular, with slip-and-drive connections.
   4. Acceptable Liners:
      a. 1/2 inch thick, coated, fibrous-glass complying with ASTM C1071.
         1) Secure with adhesive.
         2) Coat edges exposed to airstream with NFPA 90A approved sealant.
         3) Cover liner with non-porous foil.
      b. Liner not to contain pentabrominated diphenyl ether (CAS #32534-81-9) or octabrominated diphenyl ether.

D. Damper Assembly:
   1. Heavy-gauge, galvanized steel, or extruded aluminum construction with solid steel, nickel-plated shaft pivoting on HDPE, self-lubricating bearings.
   2. Provide integral position indicator or alternative method for indicating damper position over full range of 90 degrees.
   3. Incorporate low leak damper blades for tight airflow shutoff.

E. Electric Heating Coil:
   1. Listed and provided by the terminal unit manufacturer.
   2. Coil Casing: 20 gauge, 0.0359 inch galvanized steel.
   3. Heating Elements: Nickel chrome, supported by ceramic insulators.
   4. Integral Control Panel: NEMA 250, Type 2 enclosure with hinged access door for access to all controls and safety devices.

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5. Furnish a primary automatic reset thermal cutout and differential pressure airflow switch for proof of airflow.
6. Provide the following additional components, mounted and/or wired within the control enclosure:
   a. Fused or non-fused door interlocking disconnect switch.
   b. Mercury contactors.
   c. Fuse block.
7. Factory wired, including all limit switches and steps of control as indicated on the equipment schedule, with the SSR (solid-state relay) proportional heat control.
8. Provide SCR (Silicon Controlled Rectifier) controller.

F. Electrical Requirements:
   1. Single-point power connection.
   2. Equipment wiring to comply with requirements of NFPA 70.

G. Controls:
   1. DDC (Direct-Digital Controls):
      a. Include a factory-installed, unit-mounted, direct-digital controller.
      b. Bi-directional Damper Actuator: 24 volt, powered closed, spring return open.
      c. Microprocessor-Based Controller: Air volume controller, pressure-independent with electronic airflow transducers, factory-calibrated maximum and minimum CFMs.
         1) Occupied and unoccupied operating mode.
         2) Remote reset of temperature or CFM set points.
         3) Proportional, plus integral control of room temperature.
         4) Monitoring and adjusting with portable terminal.
      d. See Section 23 09 23.
   2. Airflow Sensor: Differential pressure airflow device measuring total, static, and wake pressures.
      a. Signal accuracy: Plus/minus five percent throughout terminal operating range.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that conditions are suitable for installation.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install the inlets of air terminal units and air flow sensors a minimum of four duct diameters from elbows, transitions, and duct takeoffs.

C. See drawings for the size(s) and duct location(s) of the air terminal units.

D. Provide ceiling access doors or locate units above easily removable ceiling components.

E. Do not support from ductwork.

F. Connect to ductwork in accordance with Section 23 31 00.

G. Check and verify location of thermostats with plans and room details before installation. Locate 48 inches above floor. Align with lighting switches.

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3.03 ADJUSTING

A. Reset volume with damper operator attached to assembly allowing flow range modulation from 100 percent of design flow to scheduled percent full flow. Set units with heating coils for minimum scheduled percent full flow.

3.04 CLEANING

A. Vacuum clean coils and inside of units.

END OF SECTION

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SECTION 23 37 00
AIR OUTLETS AND INLETS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Diffusers:

B. Slot ceiling diffusers.

C. Registers/grilles:

1.02 REFERENCE STANDARDS

A. NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilating Systems 2021.

B. SMACNA (ASMM) - Architectural Sheet Metal Manual 2012.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data for equipment required for this project. Review outlets and inlets as to size, finish, and type of mounting prior to submission. Submit schedule of outlets and inlets showing type, size, location, application, and noise level.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this section, with minimum three years of documented experience.

PART 2 PRODUCTS

2.01 SQUARE CEILING DIFFUSERS

A. Manufacturers:
   1. Titus; Model TMS.
   2. Price Industries; Model SCD.
   3. Nailor Industries; Model RNS3.

B. Type: Provide square, stamped, multi-core diffuser to discharge air in four way pattern..

C. Connections: Round.

D. Frame: Provide inverted T-bar type. In plaster ceilings, provide plaster frame and ceiling frame.

E. Fabrication: Steel with baked enamel finish.

F. Color: As selected by Architect/Engineer from manufacturer's standard range.

G. Accessories: Provide radial opposed blade volume control damper; removable core with damper adjustable from diffuser face.

2.02 CEILING SLOT DIFFUSERS

A. Manufacturers:
   1. Titus; Model EOSI.

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2. Price.
3. Nailor

B. Auto-changeover diffuser with a bi-directional air pattern for cooling and heating applications

C. Type: Continuous 2-inch wide slot, 1 slots wide.

D. Unit casing shall be constructed of 24-gauge steel and pattern controller blade constructed of extruded aluminum.

E. The standard finish shall be black on the face of the diffuser and the pattern controller.

F. White ceiling T-Bars shall be a factory mounted.

G. Fabrication: Steel with factory baked enamel finish.

H. The supply diffusers shall have a single inlet and single discharge slot that uses a vertically-oriented extruded aluminum pattern controller with a tight sealing gasket at the top of the blade which seals against the inside plenum wall and provides full horizontal airflow in cooling mode or vertical airflow in heating mode. Supply diffusers shall have an internally-mounted self-powered actuator/motor assembly controlled by printed circuit board controller with logic programming. Supply diffusers shall have a solar cell mounted on the face to collect light energy to power the electronic controls and actuator assembly to provide bi-directional airflow. Actuators using bi-metal spring assembly or thermal wax mechanism are not acceptable. Actuators shall have electronic temperature sensors that sense the supply air temperature and move the pattern controller blade to a horizontal position for cooling when supply air temperature reaches the cooling set point and to a vertical position for heating when supply air temperature reaches the heating set point. Supply diffusers shall contain dip switches to adjust the cooling and heating temperature set points. Diffuser shall be equipped with a connector port that allows for connection of a secondary unit via control cable. The control switches and interconnect cable shall be accessible from the inlet side of the plenum.

I. For rooms with multiple quantities of the same diffuser, provide one standard unit (master). All others within same room shall be secondary (slave) units. Connect secondary units to master unit.

J. Plenum: Integral, galvanized steel, insulated.

2.03 PERFORATED FACE CEILING RETURN REGISTERS/GRILLES

A. Manufacturers:
1. Titus; Model PAR.
2. Price Industries; Model PDDR.
3. Nailor Industries; Model 4360.

B. Type: Perforated face, removable from the grille face and shall be hinged for ease of removal of the screen.

C. Frame: Inverted T-bar type. In plaster ceilings, provide plaster frame and ceiling frame.

D. Fabrication: Steel with steel frame and baked enamel finish.

E. Color: As selected by Architect with manufacturer's standard range.

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PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Comply with SMACNA (ASMM) for flashing/counter-flashing of roof penetrations and supports for roof curbs and roof mounted equipment.

C. Check location of outlets and inlets and make necessary adjustments in position to comply with architectural features, symmetry, and lighting arrangement.

D. Install diffusers to ductwork with air tight connection.

E. Provide balancing dampers on duct take-off to diffusers, and grilles and registers, despite whether dampers are specified as part of the diffuser, or grille and register assembly.

END OF SECTION

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SECTION 26 05 00
BASIC ELECTRICAL REQUIREMENTS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SECTION INCLUDES

A. Basic Electrical Requirements and materials specifically applicable to Division 26 Sections, in addition to Division 1 - General Requirements. Section includes:
   1. Electrical Identification.
   2. Minor Demolition.
   3. Conductors.
   4. Raceways and Boxes.
   5. Supporting Devices.

1.03 REGULATORY REQUIREMENTS

A. Conform to NFPA 70 - National Electrical Code, 2014 edition with amendments as adopted by the City of St. Charles, IL.

B. Conform to building codes as adopted by the City of St. Charles, IL.

C. Install electrical Work in accordance with the NECA Standard of Installation.

1.04 DELIVERY, STORAGE AND HANDLING

A. Store and protect all materials as specified under the provisions of Section 01 60 00 and as specified herein.

B. Deliver products to the project properly identified with names, model numbers, types, grades, compliance labels, and other information needed for identification.

C. Ship products to the job site in their original packaging. Receive and store products in a suitable manner to prevent damage or deterioration. Keep equipment upright at all times.

D. Investigate the spaces through which equipment must pass to reach its final destination. Coordinate with the manufacturer to arrange delivery at the proper stage of construction and to provide shipping splits where necessary.

1.05 PROJECT/SITE CONDITIONS

A. Install work in locations shown on Drawings, unless prevented by Project conditions. Drawings have omitted certain branch circuitry in areas for ease of reading. All branch circuitry is to be provided by Contractor.

B. Prepare drawings showing proposed rearrangement of Work to meet Project conditions, including changes to Work specified in other Sections. Obtain permission from Architect/Engineer before proceeding as specified under modification procedures.

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1.06 QUALITY ASSURANCE

A. Provide Work as required for a complete and operational electrical installation.

B. All products shall be designed, manufactured, and tested in accordance with industry standards. Standards, organizations, and their abbreviations as used hereafter, include the following:
   1. American National Standards Institute, Inc (ANSI).
   2. American Society for Testing and Materials (ASTM).
   3. National Electrical Manufacturers Association (NEMA).
   4. Underwriters Laboratories, Inc. (UL).

C. Install all Work in accordance with the NECA Standard of Installation.

1.07 SUBMITTALS

A. Submit all requested items in Division 26 Sections under provisions of Section 01 30 00.

1.08 SUBSTITUTIONS

A. Substitutions will be considered only as allowed within the provisions of Section 01 60 00.

1.09 PROJECT RECORD DOCUMENTS

A. Cooperate and assist in the preparation of project record documents under the provisions of Section 01 78 00.

1.10 TEMPORARY UTILITIES

A. Arrange with utility company and provide temporary lighting and power necessary for building construction and temporary structures. Perform work in accordance with Section 01 51 00 requirements.

1.11 PROJECT MANAGEMENT AND COORDINATION

A. Proper project management and coordination is critical for a successful project. Manage and coordinate the Work with all other trades in accordance with Section 01 30 00 requirements. Reliance on the Drawings and Specifications only for exact project requirements is insufficient for proper coordination.

PART 2 PRODUCTS

2.01 WIRING METHODS

A. All locations: Building wire in raceway.

B. Use no wire smaller than 12 AWG for power and lighting circuits, and no smaller than 14 AWG for control wiring.
   1. Use 10 AWG conductor for 20 ampere, 120 volt branch circuit home runs longer than 100 feet. Use minimum #10 AWG conductor wire in all the following locations:
      a. All emergency lighting and exit branch circuits.

2.02 WIRE AND CABLE

A. Manufacturers:
   1. Okonite.
   2. Southwire.

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3. Collyer.

B. Building Wire:
   1. Feeders and Branch Circuits Larger Than 6 AWG: Copper, stranded conductor, 600 volt insulation.
   2. Feeders and Branch Circuits 6 AWG and Smaller: Copper conductor, 600 volt insulation. 6 and 8 AWG, stranded conductor; smaller than 8 AWG, stranded conductor (solid for device terminations).
   3. Control Circuits: Copper, stranded conductor, 600 volt insulation.
   4. Use 10 AWG conductors for 20 ampere, 120 volt branch circuits longer than 75 feet.
   5. Use 10 AWG conductors for 20 ampere, 277 volt branch circuits longer than 200 feet.
   6. Use conductor not smaller than 12 AWG for power and lighting circuits.
   7. Use conductor not smaller than 16 AWG for control circuits.

C. Locations:
   1. Concealed Dry Interior Locations: Use only building wire with Type THHN insulation in raceway.
   2. Exposed Dry Interior Locations: Use only building wire with Type THHN insulation in raceway.
   3. Above Accessible Ceilings: Use only building wire with Type THHN insulation in raceway.
   4. Wet or Damp Interior Locations: Use only building wire with Type THWN insulation in raceway.
   5. Exterior Locations: Use only building wire with Type XHHW insulation in raceway.

2.03 RACEWAY REQUIREMENTS

A. Use only specified raceway in the following locations:
   1. Branch Circuits and Feeders:
      a. Concealed Dry Interior Locations: Electrical metallic tubing.
      b. Exposed Dry Interior Finished Locations: Electrical metallic tubing.
      c. Exposed Dry Interior Unfinished Locations: Electrical metallic tubing.
      d. All other locations: Galvanized Rigid Metallic Conduit.

B. Size raceways for conductor type installed.
   1. Minimum Size Conduit Homerun to Panelboard: 3/4-inch.

2.04 METALLIC CONDUIT AND FITTINGS

A. Conduit:
   1. Rigid Steel Conduit: ANSI C80.1.
   2. Electrical metallic tubing: ANSI C80.3.
   3. Flexible Conduit: UL 1, zinc-coated steel.
      a. Liquidtight Flexible Conduit: UL360. Fittings shall be specifically approved for use with this raceway.

B. Conduit Fittings:
   1. Metal Fittings and Conduit Bodies: NEMA FB 1.
      a. EMT fittings: Use set-screw indentor-type fittings.

2.05 CONDUIT HANGERS

A. Manufacturers:
   1. Minerrallac Electric Company.
   2. Substitutions: Or Approved Equal.

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B. Description:
   1. Standard conduit hanger, zinc-plated steel with bolts.
   2. Threaded rod and hardware: Plated finish, size and length as required for loading and conditions.

2.06 BEAM CLAMPS

A. Manufacturers:
   1. Appleton.
   2. Midwest.
   3. Raco.

B. Description: Malleable beam clamp, zinc plated steel.

2.07 ELECTRICAL BOXES

A. Manufacturers:
   1. Raco.
   2. Steel City.
   3. Appleton.
   4. Substitutions: Or Approved Equal.

B. Sheet Metal Outlet Boxes: ANSI/NEMA OS 1, galvanized steel, suitable for installation in masonry:

C. Equipment Support Boxes: Rated for weight of equipment supported; include 2 inch male fixture studs where required.

D. Wet Location Outlet Boxes: Cast aluminum: Cast alloy, deep type, gasket cover, threaded hubs.

2.08 PENETRATION SEALANTS

A. Thermal and Moisture Protection: Provide thermal and moisture protection made by Work under this Contract of all exterior wall, floor and roof penetrations in accordance with Division 7 requirements.

2.09 NAMEPLATES AND LABELS

A. Nameplates: Engraved three-layer laminated plastic, black letters on white background.

B. Locations:
   1. Each electrical distribution and control equipment enclosure.

C. Letter Size:
   1. Use 1/8 inch letters for identifying individual equipment and loads.
   2. Use 1/4 inch letters for identifying grouped equipment and loads.

D. Labels: Embossed adhesive tape, with 3/16 inch white letters on a black background. Use only for identification of individual wall switches and receptacles and control device stations.

2.10 WIRE AND CABLE MARKERS

A. Manufacturers:
   1. Brady Model PCPS.
   2. Panduit Model PCM.
   3. T & B Model WM.

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B. Description: Cloth type wire markers.

C. Locations: Each conductor at panelboard gutters, pull boxes, and each load connection.

D. Legend:
   1. Power and Lighting Circuits: Branch circuit or feeder number indicated on drawings.

2.11 CONDUIT MARKERS

A. Location: Furnish markers for each conduit longer than 6 feet.

B. Spacing: 20 feet on center.

C. Color:
   1. 480 Volt System: Orange
   2. 208 Volt System: Black
   3. Fire Alarm System: Red.

PART 3 EXECUTION

3.01 EXAMINATION AND PREPARATION

A. Demolition Drawings are based on casual field observation and are intended to identify the limits of the construction site. Remove all electrical systems in their entirety in proper sequence with the Work.

B. Disconnect electrical systems in walls, floors, and ceilings for removal.

C. Provide temporary wiring and connections to maintain existing systems in service during construction. When work must be performed on energized equipment or circuits, use personnel experienced in such operations.

D. Existing Electrical Service and Emergency Electrical Service: Maintain existing system in service. Disable system only to make switchovers and connections. Obtain permission from Owner and Architect at least 24 hours before partially or completely disabling system. Minimize outage duration. Make temporary connections to maintain service in areas adjacent to work area.

E. Existing Fire Alarm System: Maintain existing system in service. Disable system only to make switchovers and connections. Notify Owner, Architect/Engineer and local fire service at least 24 hours before partially or completely disabling system. Minimize outage duration. Make temporary connections to maintain service in areas adjacent to work area.

F. Beginning of demolition means installer accepts existing conditions.

G. Verify that supporting surfaces are ready to receive work.

H. Electrical boxes are shown on Drawings, in approximate locations, unless dimensioned.
   1. Obtain verification from Architect/Engineer for locations of outlets throughout prior to rough-in.

I. Degrease and clean surfaces to receive wire markers.

J. Verify that interior of building is physically protected from weather.

K. Verify that mechanical work which is likely to injure conductors has been completed.

L. Completely and thoroughly swab raceway system before installing conductors.

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3.02 DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK

A. Remove, relocate, and extend existing installations to accommodate new construction.

B. Remove abandoned wiring to source of supply.

C. Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with walls and floors, and patch surfaces.

D. Relocate existing fire alarm devices affected by wall, ceiling and floor demolition.

E. Repair adjacent construction and finishes damaged during demolition and extension work.

F. Properly dispose of all ballast to approved ballast recycler. Do not land fill ballasts.

3.03 APPLICATION

A. Install nameplate and label parallel to equipment lines.

B. Secure nameplate to equipment front using screws.

C. Secure nameplates to inside surface of door on panelboard that is recessed in finished locations.

D. Identify underground conduits using underground warning tape. Install one tape per trench at 3 inches below finished grade.

E. Neatly train and secure wiring inside boxes, equipment, and panelboards.

F. Use wire pulling lubricant for pulling 4 AWG and larger wires.

G. Route wire and cable as required to meet project conditions.
   1. Wire and cable routing indicated is approximate unless dimensioned.
   2. Where wire and cable destination is indicated and routing is not shown, determine exact routing and lengths required.

H. Pull all conductors into raceway at same time.

I. Protect exposed cable from damage.

J. Neatly train and lace wiring inside boxes, equipment and panelboards.

K. Support cables above accessible ceilings to keep them from resting on ceiling tiles.

L. Make splices, taps, and terminations to carry full ampacity of conductors without perceptible temperature rise.

M. Use split bolt connectors for copper conductor splices and taps, 6 AWG and larger. Tape uninsulated conductors and connector with electrical tape to 150 percent of insulation rating of conductor.

N. Provide anchors, fasteners, and supports in accordance with NECA "Standard of Installation".

O. Do not fasten supports to pipes, ducts, mechanical equipment, and conduit.

P. Do not use powder-actuated anchors.

Q. Do not drill or cut structural members.

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R. Fabricate supports from structural steel or steel channel. Rigidly weld members or use hexagon head bolts to present neat appearance with adequate strength and rigidity. Use spring lock washers under all nuts.

S. Install surface-mounted cabinets and panelboards with minimum of four anchors.

T. In wet and damp locations use steel channel supports to stand cabinets and panelboards one inch off wall.

U. Use sheet metal channel to bridge studs above and below cabinets and panelboards recessed in hollow partitions.

V. Terminate spare conductors with electrical tape.

W. Do not share neutral conductor on load side of dimmers.

END OF SECTION

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SECTION 26 05 83
WIRING CONNECTIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Electrical connections to equipment and devices not and integral part of the electrical distribution system.

1.02 REFERENCE STANDARDS

A. NEMA WD 1 - General Color Requirements for Wiring Devices 1999 (Reaffirmed 2020).

B. NEMA WD 6 - Wiring Devices - Dimensional Specifications 2021.

C. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Provide conduit rough-in and electrical connection to powered equipment and devices identified in the Project Manual and on the Drawings. Refer specifically, but not limited to, these Specification Sections for further information:
   1. Section 08 71 00 - Door Hardware: Components electrically operated and/or controlled.
   2. Section 08 88 36.16 - Electronically Controlled Switchable Glass
   3. Section 28 46 00 - Fire Detection and Alarm.
   4. Section 23 34 23 - HVAC Power Ventilators.
   5. Section 23 36 00 - Air Terminal Units.

B. Coordination: Determine connection locations and requirements for furniture, equipment and devices furnished or provided under other sections.
   1. Do not rely solely on the Drawings and Project Manual for execution of the Work of this Section.
   2. Obtain and review shop drawings, product data, manufacturer's wiring diagrams, and manufacturer's instructions.
   3. Include necessary field evaluation time to inspect connection requirements.
   4. Coordinate with other trades to determine exact rough-in requirements.

C. Sequencing:
   1. Install rough-in of electrical connections before installation of furniture and equipment is required.
   2. Make electrical connections before required start-up of equipment.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide wiring device manufacturer’s catalog information showing dimensions, configurations, and construction.

C. Manufacturer's Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, and installation of product.

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1.05 QUALITY ASSURANCE

A. Comply with requirements of NFPA 70.

B. Products: Listed, classified, and labeled as suitable for the purpose intended.

PART 2 PRODUCTS

2.01 MATERIALS

A. Cords and Caps: NEMA WD 6; match receptacle configuration at outlet provided for equipment.
   1. Colors: Comply with NEMA WD 1.
   2. Cord Construction: NFPA 70, Type SO, multiconductor flexible cord with identified equipment grounding conductor, suitable for use in damp locations.
   3. Size: Suitable for connected load of equipment, length of cord, and rating of branch circuit overcurrent protection.
   4. Product: Carol.
   5. Substitutions: See Section 01 60 00 - Product Requirements.

B. Wiring Devices: As specified in Section 26 27 26.

C. Flexible Conduit: As specified in Section 26 05 00.

D. Wire and Cable: As specified in Section 26 05 00.

E. Boxes: As specified in Section 26 05 00.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that equipment is ready for electrical connection, wiring, and energization.

3.02 ELECTRICAL CONNECTIONS

A. Make electrical connections in accordance with equipment manufacturer's instructions.

B. Make conduit connections to equipment using flexible conduit. Use liquidtight flexible conduit with watertight connectors in damp or wet locations.

C. Connect heat producing equipment using wire and cable with insulation suitable for temperatures encountered.

D. Provide receptacle outlet to accommodate connection with attachment plug.

E. Provide cord and cap where field-supplied attachment plug is required.

F. Install suitable strain-relief clamps and fittings for cord connections at outlet boxes and equipment connection boxes.

G. Install disconnect switches, controllers, control stations, and control devices to complete equipment wiring requirements.

H. Install terminal block jumpers to complete equipment wiring requirements.

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I. Install interconnecting conduit and wiring between devices and equipment to complete equipment wiring requirements.

END OF SECTION

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SECTION 26 27 26
WIRING DEVICES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Wall switches.

B. Wall dimmers.

C. Receptacles.

D. Wall plates.

E. Motion Sensors.

1.02 REFERENCE STANDARDS

A. FS W-C-596 - Connector, Electrical, Power, General Specification for 2014h, with Amendments (2017).

B. FS W-S-896 - Switches, Toggle (Toggle and Lock), Flush Mounted (General Specification) 2014g, with Amendment (2017).

C. NECA 1 - Standard for Good Workmanship in Electrical Construction 2015.

D. NECA 130 - Standard for Installing and Maintaining Wiring Devices 2016.

E. NEMA WD 1 - General Color Requirements for Wiring Devices 1999 (Reaffirmed 2020).

F. NEMA WD 6 - Wiring Devices - Dimensional Specifications 2021.

G. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

H. UL 20 - General-Use Snap Switches Current Edition, Including All Revisions.

I. UL 498 - Attachment Plugs and Receptacles Current Edition, Including All Revisions.

J. UL 514D - Cover Plates for Flush-Mounted Wiring Devices Current Edition, Including All Revisions.

K. UL 943 - Ground-Fault Circuit-Interrupters Current Edition, Including All Revisions.

L. UL 1472 - Solid-State Dimming Controls Current Edition, Including All Revisions.

1.03 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Coordinate the placement of outlet boxes with millwork, furniture, equipment, etc. installed under other sections or by others.
   2. Coordinate wiring device ratings and configurations with the electrical requirements of actual equipment to be installed.
   3. Coordinate the placement of outlet boxes for wall switches with actual installed door swings.
   4. Coordinate the installation and preparation of uneven surfaces, such as split face block, to provide suitable surface for installation of wiring devices.

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5. Notify Architect/Engineer of any conflicts or deviations from Contract Documents to obtain direction prior to proceeding with work.

B. Sequencing:
   1. Do not install wiring devices until final surface finishes and painting are complete.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide manufacturer's catalog information showing dimensions, colors, and configurations.

C. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, and installation of product.

D. Operation and Maintenance Data:
   1. Wall Dimmers: Include information on operation and setting of presets.
   2. GFCI Receptacles: Include information on status indicators.

E. Project Record Documents: Record actual installed locations of wiring devices.

1.05 QUALITY ASSURANCE

A. Comply with requirements of NFPA 70.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

C. Products: Listed, classified, and labeled as suitable for the purpose intended.

1.06 DELIVERY, STORAGE, AND PROTECTION

A. Store in a clean, dry space in original manufacturer's packaging until ready for installation.

PART 2 PRODUCTS

2.01 APPLICATIONS

A. Provide wiring devices suitable for intended use and with ratings adequate for load served.

B. For single receptacles installed on an individual branch circuit, provide receptacle with ampere rating not less than that of the branch circuit.

C. Provide tamper resistant receptacles for receptacles installed in dwelling units.

D. Provide GFCI protection for receptacles installed within 6 feet of sinks.

E. Provide GFCI protection for receptacles installed in kitchens.

F. Provide GFCI protection for receptacles serving electric drinking fountains.

G. Unless noted otherwise, do not use combination switch/receptacle devices.

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2.02 ALL WIRING DEVICES

A. Provide products listed and classified by Underwriters Laboratories Inc. as suitable for the purpose specified and indicated.

B. Finishes:
   1. All Wiring Devices: Ivory with stainless steel wall plate unless otherwise indicated.
   2. Wiring Devices Installed in Finished Spaces: Ivory with stainless steel wall plate unless otherwise indicated.
   3. Wiring Devices Installed in Unfinished Spaces: Gray with galvanized steel wall plate unless otherwise indicated.
   4. Wiring Devices Installed in Wet or Damp Locations: Ivory with specified weatherproof cover unless otherwise indicated.
   5. Wiring Devices Connected to Emergency Power: Redwith red aluminum wall plate.

2.03 WALL SWITCHES

A. Manufacturers:
   1. Hubbell Incorporated: www.hubbell.com/#sle.
   2. Leviton Manufacturing Company, Inc: www.leviton.com/#sle.
   3. Pass & Seymour, a brand of Legrand North America, Inc: www.legrand.us/#sle.
   4. Substitutions: See Section 01 60 00 - Product Requirements.

B. Wall Switches - General Requirements: AC only, quiet operating, general-use snap switches with silver alloy contacts, complying with NEMA WD 1 and NEMA WD 6, and listed as complying with UL 20 and where applicable, FS W-S-896; types as indicated on the drawings.
   1. Wiring Provisions: Terminal screws for side wiring and screw actuated binding clamp for back wiring with separate ground terminal screw.

C. Standard Wall Switches: Industrial specification grade, 20 A, 120/277 V with standard toggle type switch actuator and maintained contacts; single pole single throw, double pole single throw, three way, or four way as indicated on the drawings.

2.04 WALL DIMMERS

A. Manufacturers:
   1. Leviton Manufacturing Company, Inc: www.leviton.com/#sle.
   2. Lutron Electronics Company, Inc: www.lutron.com/#sle.
   3. Pass & Seymour, a brand of Legrand North America, Inc: www.legrand.us/#sle.
   4. Substitutions: See Section 01 60 00 - Product Requirements.

B. Wall Dimmers - General Requirements: Solid-state with continuous full-range even control following square law dimming curve, integral radio frequency interference filtering, power failure preset memory, air gap switch accessible without removing wall plate, complying with NEMA WD 1 and NEMA WD 6, and listed as complying with UL 1472; types and ratings suitable for load controlled as indicated on the drawings.

C. Power Rating, Unless Otherwise Indicated or Required to Control the Load Indicated on the Drawings:

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2.05 RECEPTACLES

A. Manufacturers:
   1. Hubbell Incorporated: www.hubbell.com/#sle.
   2. Leviton Manufacturing Company, Inc: www.leviton.com/#sle.
   3. Lutron Electronics Company, Inc; Designer Style: www.lutron.com/#sle.
   4. Pass & Seymour, a brand of Legrand North America, Inc: www.legrand.us/#sle.
   5. Substitutions: See Section 01 60 00 - Product Requirements.

B. Receptacles - General Requirements: Self-grounding, complying with NEMA WD 1 and NEMA WD 6, and listed as complying with UL 498, and where applicable, FS W-C-596; types as indicated on the drawings.
   1. Wiring Provisions: Terminal screws for side wiring or screw actuated binding clamp for back wiring with separate ground terminal screw.
   2. NEMA configurations specified are according to NEMA WD 6.

C. Convenience Receptacles:
   1. Standard Convenience Receptacles: Industrial specification grade, 20A, 125V, NEMA 5-20R; single or duplex as indicated on the drawings.

D. GFCI Receptacles:
   1. GFCI Receptacles - General Requirements: Self-testing, with feed-through protection and light to indicate ground fault tripped condition and loss of protection; listed as complying with UL 943, class A.
      a. Provide test and reset buttons of same color as device.
   2. Standard GFCI Receptacles: Industrial specification grade, duplex, 20A, 125V, NEMA 5-20R, rectangular decorator style.

2.06 WALL PLATES

A. Manufacturers:
   1. Hubbell Incorporated: www.hubbell-wiring.com/#sle.
   2. Leviton Manufacturing Company, Inc: www.leviton.com/#sle.
   3. Lutron Electronics Company, Inc: www.lutron.com/#sle.
   4. Pass & Seymour, a brand of Legrand North America, Inc: www.legrand.us/#sle.

B. Wall Plates: Comply with UL 514D.
   1. Configuration: One piece cover as required for quantity and types of corresponding wiring devices.
   2. Size: Standard.
   3. Screws: Metal with slotted heads finished to match wall plate finish.
   4. Paintable metallic.

C. Stainless Steel Wall Plates: Brushed satin finish, Type 302 stainless steel.

2.07 MOTION SENSORS

A. Manufacturers:
   1. Leviton
   2. Hubbell
   3. Lutron

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4. Approved Equal

B. Combination Wall Switch/Occupancy Sensor
   1. Dual technology (passive infrared and ultrasonic), 277V sensor with 180degree field-of-view and maximum coverage of 2400 square feet.
   2. Manual push button for ON/OFF light switching.
   3. Time delay settings: 30 seconds, 10, 20 or 30 minutes).
   4. Adjustable Integral blinders.
   5. Sensor shall continuously monitor space to identify usage patterns. Unit shall automatically adjust time delay and sensitivity settings for optimal performance and energy efficiency.

C. Ceiling Mounted.
   1. Dual technology (passive infrared and ultrasonic), 24VDC sensor with unobtrusive appearance and 360 degrees of coverage.
      a. Provide type/quantity of motion sensors to meet square foot coverage requirements.
   2. Provide power pack for 24VDC controls and switching of 120/277V circuits. Minimum quantity of sensors per power pack: 2.
   3. Sensor shall continuously monitor space to identify usage patterns. Unit shall automatically adjust time delay and sensitivity settings for optimal performance and energy efficiency.
   4. Time delay settings: Auto, fixed (5,10,15,20 or 30 minutes).
   5. Sensitivity settings: Auto, reduced sensitivity (passive infrared) variable (ultrasonic).
   6. (1) N/O and (1) N/C output.

2.08 SINGLE-POLE MOTOR RATED SWITCHES

A. Manufacturers:
   1. Square D.
   2. General Electric.
   3. Siemens.
   4. Substitutions: Or Approved Equal.

B. NEMA ICS 2; AC general purpose Class A manually operated, full-voltage controller for fractional horsepower induction motors, with thermal overload unit, toggle operator.
   1. Voltage: 120 Volt.

C. Enclosure: NEMA 1, suitable for use in return air plenum where applicable.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that outlet boxes are installed in proper locations and at proper mounting heights and are properly sized to accommodate devices and conductors in accordance with NFPA 70.

C. Verify that wall openings are neatly cut and will be completely covered by wall plates.

D. Verify that final surface finishes are complete, including painting.

E. Verify that branch circuit wiring installation is completed, tested, and ready for connection to wiring devices.

F. Verify that conditions are satisfactory for installation prior to starting work.

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3.02 PREPARATION

A. Provide extension rings to bring outlet boxes flush with finished surface.

B. Clean dirt, debris, plaster, and other foreign materials from outlet boxes.

3.03 INSTALLATION

A. Perform work in accordance with NECA 1 (general workmanship) and, where applicable, NECA 130, including mounting heights specified in those standards unless otherwise indicated.

B. Coordinate locations of outlet boxes provided under Section 26 05 00 as required for installation of wiring devices provided under this section.
   1. Mounting Heights: Unless otherwise indicated, as follows:
      a. Wall Switches: 48 inches above finished floor.
      b. Wall Dimmers: 48 inches above finished floor.
      c. Receptacles: 18 inches above finished floor or 6 inches above counter.
   2. Orient outlet boxes for vertical installation of wiring devices unless otherwise indicated.
   3. Where multiple receptacles, wall switches, or wall dimmers are installed at the same location and at the same mounting height, gang devices together under a common wall plate.
   4. Locate wall switches on strike side of door with edge of wall plate 3 inches from edge of door frame. Where locations are indicated otherwise, notify Architect/Engineer to obtain direction prior to proceeding with work.

C. Install wiring devices in accordance with manufacturer's instructions.

D. Install permanent barrier between ganged wiring devices when voltage between adjacent devices exceeds 300 V.

E. Where required, connect wiring devices using pigtails not less than 6 inches long. Do not connect more than one conductor to wiring device terminals.

F. Connect wiring devices by wrapping conductor clockwise 3/4 turn around screw terminal and tightening to proper torque specified by the manufacturer. Where present, do not use push-in pressure terminals that do not rely on screw-actuated binding.

G. Unless otherwise indicated, connect wiring device grounding terminal to branch circuit equipment grounding conductor and to outlet box with bonding jumper.

H. Unless otherwise indicated, GFCI receptacles may be connected to provide feed-through protection to downstream devices. Label such devices to indicate they are protected by upstream GFCI protection.

I. Install wiring devices plumb and level with mounting yoke held rigidly in place.

J. Install wall switches with OFF position down.

K. Install wall dimmers to achieve full rating specified and indicated after derating for ganging as instructed by manufacturer.

L. Do not share neutral conductor on branch circuits utilizing wall dimmers.

M. Install vertically mounted receptacles with grounding pole on top and horizontally mounted receptacles with grounding pole on left.

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N. Install wall plates to fit completely flush to wall with no gaps and rough opening completely covered without strain on wall plate. Repair or reinstall improperly installed outlet boxes or improperly sized rough openings. Do not use oversized wall plates in lieu of meeting this requirement.

O. Install blank wall plates on junction boxes and on outlet boxes with no wiring devices installed or designated for future use.

3.04 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements, for additional requirements.

B. Inspect each wiring device for damage and defects.

C. Operate each wall switch and wall dimmer with circuit energized to verify proper operation.

D. Test each receptacle to verify operation and proper polarity.

E. Test each GFCI receptacle for proper tripping operation according to manufacturer's instructions.

F. Correct wiring deficiencies and replace damaged or defective wiring devices.

3.05 ADJUSTING

A. Adjust devices and wall plates to be flush and level.

B. Adjust presets for wall dimmers according to manufacturer's instructions as directed by Architect/Engineer.

3.06 CLEANING

A. Clean exposed surfaces to remove dirt, paint, or other foreign material and restore to match original factory finish.

END OF SECTION

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SECTION 26 51 00
INTERIOR LUMINAIRES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Interior luminaires.

B. Emergency lighting units.

C. Exit signs.

D. Accessories.

1.02 RELATED REQUIREMENTS

A. Section 26 27 26 - Wiring Devices: Manual wall switches and wall dimmers.

1.03 REFERENCE STANDARDS

A. 47 CFR 15 - Radio Frequency Devices current edition.

B. IESNA LM-63 - ANSI Approved Standard File Format for Electronic Transfer of Photometric Data and Related Information 2002 (Reaffirmed 2008).

C. IES LM-79 - Approved Method: Optical and Electrical Measurements of Solid-State Lighting Products 2019.

D. IES LM-80 - Approved Method: Measuring Maintenance of Light Output Characteristics of Solid-State Light Sources 2021.

E. NECA 1 - Standard for Good Workmanship in Electrical Construction 2015.

F. NECA/IESNA 500 - Standard for Installing Indoor Lighting Systems 2006.

G. NECA/IESNA 502 - Standard for Installing Industrial Lighting Systems 2006.

H. NEMA LE 4 - Recessed Luminaires, Ceiling Compatibility 2012 (Reaffirmed 2018).

I. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

J. NFPA 101 - Life Safety Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

K. UL 924 - Emergency Lighting and Power Equipment Current Edition, Including All Revisions.

L. UL 1598 - Luminaires Current Edition, Including All Revisions.

M. UL 8750 - Light Emitting Diode (LED) Equipment for Use in Lighting Products Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Coordinate the installation of luminaires with mounting surfaces installed under other sections or by others. Coordinate the work with placement of supports, anchors, etc. required for

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mounting. Coordinate compatibility of luminaires and associated trims with mounting surfaces at installed locations.
2. Coordinate the placement of luminaires with structural members, ductwork, piping, equipment, diffusers, fire suppression system components, and other potential conflicts installed under other sections or by others.
3. Coordinate the placement of exit signs with furniture, equipment, signage or other potential obstructions to visibility installed under other sections or by others.
4. Notify Architect/Engineer of any conflicts or deviations from Contract Documents to obtain direction prior to proceeding with work.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Shop Drawings:
1. Provide photometric calculations where luminaires are proposed for substitution upon request.
2. Indicate construction, installation and mounting details for products.
3. Wiring Diagrams: Submit wiring diagrams for all exit sign, night light, self-contained back-up battery lighting, battery ballasts and associated circuit breakers, programmable circuit breakers and/or emergency circuit breakers.

C. Product Data: Provide manufacturer's standard catalog pages and data sheets including detailed information on luminaire construction, dimensions, ratings, finishes, mounting requirements, listings, service conditions, photometric performance, installed accessories, and ceiling compatibility; include model number nomenclature clearly marked with all proposed features.
1. LED Luminaires:
a. Include estimated useful life, calculated based on IES LM-80 test data.
2. Lamps: Include rated life, color temperature, color rendering index (CRI), and initial and mean lumen output.
3. Wiring diagrams: Provide wiring diagrams for dimmable ballasts and dimmable switches.

D. Certificates for Dimming Ballasts: Manufacturer's documentation of compatibility with dimming controls to be installed.

E. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, and installation of product.

F. Operation and Maintenance Data: Instructions for each product including information on replacement parts.

G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
1. See Section 01 60 00 - Product Requirements, for additional provisions.

H. Project Record Documents: Record actual connections and locations of luminaires and any associated remote components.

1.06 QUALITY ASSURANCE

A. Comply with requirements of NFPA 70.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

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1.07 DELIVERY, STORAGE, AND PROTECTION

A. Receive, handle, and store products according to NECA/IESNA 500 (commercial lighting), NECA/IESNA 502 (industrial lighting), and manufacturer's written instructions.

B. Keep products in original manufacturer's packaging and protect from damage until ready for installation.

1.08 FIELD CONDITIONS

A. Maintain field conditions within manufacturer's required service conditions during and after installation.

1.09 WARRANTY

A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.

B. Provide three year manufacturer warranty for LED luminaires, including drivers.

PART 2 PRODUCTS

2.01 LUMINAIRE TYPES

A. Furnish products as indicated in luminaire schedule included on the drawings.

B. Substitutions: See Section 01 60 00 - Product Requirements except where individual luminaire types are designated with substitutions not permitted.

2.02 LUMINAIRES

A. Manufacturers:
   1. Acuity Brands, Inc: www.acuitybrands.com/#sle.
   2. Cooper Lighting, a division of Cooper Industries: www.cooperindustries.com/#sle.
   3. Hubbell Lighting, Inc: www.hubbelllighting.com/#sle.

B. Provide products that comply with requirements of NFPA 70.

C. Provide products that are listed and labeled as complying with UL 1598, where applicable.

D. Provide products listed, classified, and labeled as suitable for the purpose intended.

E. Provide products complying with Federal Energy Management Program (FEMP) requirements.

F. Unless otherwise indicated, provide complete luminaires including lamp(s) and all sockets, ballasts, reflectors, lenses, housings and other components required to position, energize and protect the lamp and distribute the light.

G. Unless specifically indicated to be excluded, provide all required conduit, boxes, wiring, connectors, hardware, supports, trims, accessories, etc. as necessary for a complete operating system.

H. Provide products suitable to withstand normal handling, installation, and service without any damage, distortion, corrosion, fading, discoloring, etc.

I. Recessed Luminaires:
   1. Ceiling Compatibility: Comply with NEMA LE 4.

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2. Luminaires Recessed in Insulated Ceilings: Listed and labeled as IC-rated, suitable for direct contact with insulation and combustible materials.
3. Luminaires Recessed in Sloped Ceilings: Provide suitable sloped ceiling adapters.

J. LED Luminaires:
1. Components: UL 8750 recognized or listed as applicable.
2. Tested in accordance with IES LM-79 and IES LM-80.
3. LED Estimated Useful Life: Minimum of 50,000 hours at 70 percent lumen maintenance, calculated based on IES LM-80 test data.

K. LED Luminaire Components: UL 8750 recognized or listed as applicable.

2.03 EMERGENCY LIGHTING UNITS

A. Description: Emergency lighting units complying with NFPA 101 and all applicable state and local codes, and listed and labeled as complying with UL 924.

B. Operation: Upon interruption of normal power source or brownout condition exceeding 20 percent voltage drop from nominal, solid-state control automatically switches connected lamps to integral battery power for minimum of 90 minutes of rated emergency illumination, and automatically recharges battery upon restoration of normal power source.

C. Battery:
1. Sealed maintenance-free lead calcium unless otherwise indicated.
2. Size battery to supply all connected lamps, including emergency remote heads where indicated.

D. Diagnostics: Provide power status indicator light and accessible integral test switch to manually activate emergency operation.

E. Provide low-voltage disconnect to prevent battery damage from deep discharge.

F. Accessories:
1. Provide compatible accessory mounting brackets where indicated or required to complete installation.
2. Provide compatible accessory high impact polycarbonate vandal shields where indicated.
3. Provide compatible accessory wire guards where indicated.
4. Where indicated, provide emergency remote heads that are compatible with the emergency lighting unit they are connected to and suitable for the installed location.

2.04 EXIT SIGNS

A. Description: Exit signs complying with NFPA 101 and applicable state and local codes, and listed and labeled as complying with UL 924.
1. Number of Faces: Single- or double-face as indicated or as required for installed location.
2. Directional Arrows: As indicated or as required for installed location.

B. Powered Exit Signs: Internally illuminated with LEDs unless otherwise indicated.
1. Self-Powered Exit Signs:
a. Operation: Upon interruption of normal power source or brownout condition exceeding 20 percent voltage drop from nominal, solid-state control automatically switches connected lamps to integral battery power for minimum of 90 minutes of rated emergency illumination, and automatically recharges battery upon restoration of normal power source.

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b. Diagnostics: Provide power status indicator light and accessible integral test switch to manually activate emergency operation.
c. Provide low-voltage disconnect to prevent battery damage from deep discharge.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that outlet boxes are installed in proper locations and at proper mounting heights and are properly sized to accommodate conductors in accordance with NFPA 70.

C. Verify that suitable support frames are installed where required.

D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to luminaires.

E. Verify that conditions are satisfactory for installation prior to starting work.

F. Examine substrate and supporting grids for luminaires.

G. Examine each fixture to determine suitability for lamps specified.

3.02 PREPARATION

A. Provide extension rings to bring outlet boxes flush with finished surface.

B. Clean dirt, debris, plaster, and other foreign materials from outlet boxes.

3.03 INSTALLATION

A. Coordinate locations of outlet boxes provided under Section 26 05 00 as required for installation of luminaires provided under this section.

B. Install products in accordance with manufacturer's instructions.

C. Install luminaires securely, in a neat and workmanlike manner, as specified in NECA 500 (commercial lighting) and NECA 502 (industrial lighting).

D. Install luminaires plumb and square and aligned with building lines and with adjacent luminaires.

E. Locate recessed ceiling luminaires as indicated on reflected ceiling plan.

F. Install wall mounted luminaires, emergency units and exit signs at height as indicated on Drawings and directed in the field by Architect. Obtain final approval from Architect prior to commencement of this portion of work.

G. Install accessories furnished with each luminaire.

H. Make wiring connections to branch circuit using building wire with insulation suitable for temperature conditions within luminaire.

I. Suspended Ceiling Mounted Luminaires:
1. Do not use ceiling tiles to bear weight of luminaires.
2. Support luminaires larger than 2 foot by 4 foot size independent of ceiling framing.
3. Secure lay-in luminaires to ceiling support channels using listed safety clips at four corners.

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4. See appropriate Division 9 section where suspended grid ceiling is specified for additional requirements.

J. Recessed Luminaires:
   1. Install trims tight to mounting surface with no visible light leakage.
   2. Install recessed luminaires to permit removal from below.
   3. Install recessed luminaires using accessories and firestopping materials to meet regulatory requirements for fire rating.
   4. Install clips to secure recessed grid-supported luminaires in place.

K. Install accessories furnished with each luminaire.

L. Bond products and metal accessories to branch circuit equipment grounding conductor.

M. Emergency Lighting Units:
   1. Unless otherwise indicated, connect unit to unswitched power from circuit indicated. Bypass local switches, contactors, or other lighting controls.

N. Exit Signs:
   1. Unless otherwise indicated, connect unit to unswitched power from circuit indicated. Bypass local switches, contactors, or other lighting controls.

O. Fluorescent Emergency Power Supply Units:
   1. Unless otherwise indicated, connect unit to unswitched power from same circuit feeding normal ballast(s) in luminaire. Bypass local switches, contactors, or other lighting controls.

P. Install lamps in each luminaire.

Q. Lamp Burn-In: Operate lamps at full output for prescribed period per manufacturer's recommendations prior to use with any dimming controls. Replace lamps that fail prematurely due to improper lamp burn-in.

3.04 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements, for additional requirements.

B. Inspect each product for damage and defects.

C. Operate each luminaire after installation and connection to verify proper operation.

D. Test self-powered exit signs, emergency lighting units, and fluorescent emergency power supply units to verify proper operation upon loss of normal power supply.

E. Correct wiring deficiencies and repair or replace damaged or defective products. Repair or replace excessively noisy ballasts as determined by Architect/Engineer.

F. Energy Code Commissioning: The electrical contractor shall program, test, calibrate and confirm the proper operation and placement of all lighting controls in accordance with the International Energy Code, 2018 Edition Paragraph C408.3 "Functional testing of lighting controls".

3.05 ADJUSTING

A. Aim and position adjustable luminaires to achieve desired illumination as indicated or as directed by Architect/Engineer. Secure locking fittings in place.

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B. Aim and position adjustable emergency lighting unit lamps to achieve optimum illumination of egress path as required or as directed by Architect/Engineer or authority having jurisdiction.

C. Exit Signs with Field-Selectable Directional Arrows: Set as indicated or as required to properly designate egress path as directed by Architect/Engineer or authority having jurisdiction.

D. Relamp luminaires which have failed lamps at completion of work.

3.06 CLEANING

A. Clean surfaces according to NECA 500 (commercial lighting), NECA 502 (industrial lighting), and manufacturer's instructions to remove dirt, fingerprints, paint, or other foreign material and restore finishes to match original factory finish.

3.07 CLOSEOUT ACTIVITIES

A. See Section 01 78 00 - Closeout Submittals, for closeout submittals.

B. Demonstration: Demonstrate proper operation of luminaires to Architect/Engineer, and correct deficiencies or make adjustments as directed.

C. Just prior to Substantial Completion, replace all lamps that have failed.

D. Project record documents: Accurately record location of each luminaire.

3.08 PROTECTION

A. Protect installed luminaires from subsequent construction operations.

END OF SECTION

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SECTION 27 05 28.29
HANGERS AND SUPPORTS FOR COMMUNICATIONS SYSTEMS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Cable Hangers.
   2. Ladder Rack.
   3. Support Hardware.

1.02 REFERENCES

A. NECA - National Contractors Association.

B. ANSI/NFPA 70 - National Electrical Code.

C. EIA/TIA 569: Commercial building Standard for Pathways and Spaces.

D. NEMA VE1 - Metallic Cable Tray Systems.

E. NEMA VE2 - Metal Cable Tray Installation Guidelines.

1.03 SUBMITTALS

A. Shop Drawings: Provide shop drawings for riser cable hanger (multi-tier tray system). Indicate all construction details with cross section of all proposed systems indicated.
   1. Design Requirements: Provide conductor fill requirements for cable tray fill after all low voltage system shop drawings have been prepared.

B. Product Literature: Provide product literature for all system components.

PART 2 PRODUCTS

2.01 PRODUCT REQUIREMENTS

A. Materials and Finishes: Provide adequate corrosion resistance.

B. Provide materials, sizes, and types of anchors, fasteners and supports to carry the loads of equipment and conduit. Consider weight of wire in conduit when selecting products.

C. Anchors and Fasteners:
   1. Concrete Structural Elements: Use expansion anchors.
   2. Steel Structural Elements: Use beam clamps.
   3. Concrete Surfaces: Use self-drilling anchors and expansion anchors.
   4. Hollow Masonry, Plaster, and Gypsum Board Partitions: Use toggle bolts.
   5. Solid Masonry Walls: Use expansion anchors and preset inserts.
   6. Sheet Metal: Use sheet metal screws.
   7. Wood Elements: Use wood screws.

2.02 LADDER RACK

A. Manufacturers:
   1. Square D.

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2. B-Line.

B. Description: NEMA VE-1 Class 8A, ladder cable tray, aluminum, 6" rung spacing, 18" width.
   1. Accessories: Grounding clamp, ladder drop-out bushing, cable ties, conduit to tray adapter.
   2. Support: Wall-bracket and trapeze with threaded rod and clamps.

2.03 CABLE HANGERS - HORIZONTAL CABLING

A. Manufacturers:
   1. Caddy.
   2. Panduit.
   3. Saunder.

B. Description: EIA/TIA 569-A compliant, wall-mount, j-hook type fastener. Size per intended cable installation plus 50% spare capacity.

2.04 CABLE HANGERS - RISER CABLING

A. Manufacturers:
   1. B-Line Multi-Tier Half Track System or equal.

B. Description:
   1. Load Depth: 3 (three) inches
   2. Material: Aluminum.
   3. Rung Spacing: 18 (eighteen) inches.
   4. Rung Width:
      a. Top Two Rungs: 3 (three) inches.
      b. Bottom Two Rungs: 9 (nine) inches.
   5. Type: Four tier.
   6. Length: Continuous for length of corridor, as indicated.
   7. Mounting: Wall mount, expansion anchor.
   8. Accessories: Cable Drop Outs, plastic rail end caps, couplings. Blind end plates, horizontal barriers with clips (between systems).

2.05 BEAM CLAMPS

A. Manufacturers:
   1. Appleton.
   2. Midwest.
   3. Raco.

B. Description: Malleable beam clamp, zinc plated steel.

2.06 BACKBOARDS

A. Material: Plywood.

B. Description: 4'x8'x3/4" AC fire rated plywood. Cut to fit.

END OF SECTION

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SECTION 27 05 53
IDENTIFICATION FOR COMMUNICATIONS SYSTEMS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Labels.
   2. Color Coding.
   3. Nomenclature.

1.02 REFERENCES

A. ANSI/NFPA 70 - National Electrical Code.

B. EIA/TIA 606 - The Administrative Standard for the Telecommunications Infrastructure of Commercial Buildings.

PART 2 PRODUCTS

2.01 COLOR CODING

A. Wire and Cable shall be factory color-coded by integral pigmentation with a separate color as scheduled hereafter.

B. Color Coding Schedule:
   1. Horizontal Data Cable and Jacks (UTP): Blue.
   2. Backbone Data Cable (UTP): White.
   3. Backbone Fiber Optic Cable: Orange
   4. Horizontal Phone Cable and Jacks: Beige/Brown.
   5. Backbone Phone Cable: Grey.

2.02 LABELS

A. Manufacturers:
   1. Panduit.
   2. Leviton.
   3. Siecor

B. Cable and patch panel labels: Self-laminating adhesive polyester laser printer label. White background with black lettering. Nomenclature as specified hereafter.

C. Cable Bundles: Non adhesive polyester laser labels with cable ties. White background with black lettering. Nomenclature as specified hereafter.

D. Punch Down Blocks: Non-adhesive laser printer label. White background with black lettering.

2.03 NOMENCLATURE

A. Outlets: Arrangement and inscriptions as specified herein and indicated on Drawings.
   1. Faceplate Label: Room Number-Outlet Tag (e.g. 202S1)
   2. Jack: Jack type- above (e.g. "Data", "Phone", "Video"), Port designation-below (e.g. "A").

B. Horizontal Cable: IDF Closet-Room Number-Outlet Tag-Port Designation (e.g. "M-202-S1-A")

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1. Cable bundles: IDF Closet-Room Numbers (e.g. M-202,6,8,12,14,18)

C. Rack: Sequentially by number (e.g. "1")

D. Rack Ports and Punch Down Blocks: Room Number-Outlet Tag-Port Designation (e.g. "202-S1-A").

E. Backbone and Fiber Optic Cable: DF Closet(from)-IDF Closet(to)-pair number (e.g. M-1-1).

2.04 WARNING LABELS

A. Manufacturers:
1. Panduit.
2. Brady.
3. Siecor.

B. Fiber Optic Cable: Vinyl, black lettering with yellow background label as "FIBER OPTIC".

C. Fiber Optic Cable Terminations: Polyester, red and black lettering, silver background danger label conforming with TIA/EIA Section 6.2.4.

PART 3 EXECUTION

3.01 PREPARATION

A. Degrease and clean surfaces to receive nameplates and labels.

3.02 APPLICATION

A. Install labels parallel to equipment lines.

B. Locate labels at each cable end and bundle. Locate additional label at midpoint of each cable bundle and each cable pull location.

C. Pre-print all labels at minimum 600 dpi resolution .

D. Replace illegible or missing labels (for any reason) at contractor's sole expense up to final payment.

E. Label all components in conformance with EIA/TIA 606 standard.

F. Locate fiber optic warning label at twenty foot intervals along the length of the cable run.
1. Locate fiber optic danger labels at each termination hardware location.

G. Cable Schedule: Full size (Sheet E---) Post in prominent location at each wiring closet and cabinet. List incoming and outgoing cables and their designations, origins, and destinations. Protect with rigid frame and clear plastic cover.
1. Provide electronic and paper copy of final comprehensive schedules for Project. Utilize software with full OLE capabilities to interface with Owner's available software. At Contractor's option, purchase software and license for Owner in lieu of OLE requirement.

END OF SECTION

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SECTION 27 10 00
STRUCTURED CABLING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Communications system design requirements.

B. Copper cable and terminations.

C. Communications equipment room fittings.

D. Communications outlets.

1.02 RELATED REQUIREMENTS

1.03 REFERENCE STANDARDS

A. BICSI N1 - Installation Practices for Telecommunications and ICT Cabling and Related Cabling Infrastructure, 1st Edition 2019.

B. EIA/ECA-310 - Cabinets, Racks, Panels, and Associated Equipment 2005e.

C. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

D. TIA-569 - Telecommunications Pathways and Spaces 2019e.

E. TIA-568-C.2 - Balanced Twisted-Pair Telecommunications Cabling and Components Standards 2009, with Addendum (2016).

F. TIA-569-D - Telecommunications Pathways and Spaces 2015d, with Addendum (2016).

G. TIA-606 - Administration Standard for Telecommunications Infrastructure 2021d.

H. TIA-607-C - Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises 2015c, with Addendum (2017).

I. UL 514C - Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers Current Edition, Including All Revisions.

J. UL 1863 - Communications-Circuit Accessories Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Coordinate requirements for service entrance and entrance facilities with Communications Service Provider.
   2. Coordinate the work with other trades to avoid placement of other utilities or obstructions within the spaces dedicated for communications equipment.
   3. Coordinate arrangement of communications equipment with the dimensions and clearance requirements of the actual equipment to be installed.
   4. Notify Architect/Engineer of any conflicts with or deviations from the contract documents. Obtain direction before proceeding with work.

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1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide manufacturer's standard catalog pages and data sheets for each product.

C. Field Test Reports.

PART 2 PRODUCTS

2.01 SYSTEM DESIGN

A. Provide a complete permanent system of cabling and pathways for voice and data communications, including cables, conduits and wireways, pull wires, support structures, enclosures and cabinets, and outlets.
   1. Provide connection devices that are rated for operation under conditions of 32 to 140 degrees F at relative humidity of 0 to 95 percent, noncondensing.
   2. In this project, the term plenum is defined as return air spaces above ceilings, inside ducts, under raised floors, and other air-handling spaces.

B. Intermediate Distribution Frames (IDF): Support structures for terminating horizontal cables that extend to telecommunications outlets.
   1. Locate intermediate distribution frames as indicated on the drawings.

C. Cabling to Outlets: Specified horizontal cabling, wired in star topology to distribution frame located at center hub of star; also referred to as "links".

2.02 COPPER CABLE AND TERMINATIONS

A. Manufacturers:
   1. CommScope: www.commscope.com/#sle.
   2. General Cable Technologies Corporation: www.generalcable.com/#sle.
   3. Siemon Company: www.siemon.com/#sle.
   4. Hubbell Premise Wiring : www.hubbell.com.
   5. Substitutions: See Section 01 60 00 - Product Requirements.

B. Copper Horizontal Cable:
   1. Description: 100 ohm, balanced twisted pair cable complying with TIA-568-C.2 and listed and labeled as complying with UL 444.
   2. Cable Type - Data: TIA-568-C.2 Category 6 UTP (unshielded twisted pair); 23 AWG.
   3. Cable Capacity: 4-pair.
   4. Cable Applications: Use listed NFPA 70 Type CMP plenum cable unless otherwise indicated.
   5. Cable Jacket Color -Data Cable: Blue.
   6. Product(s):
      a. CommScope; SYSTIMAX Twisted Pair Cables; GigaSPEED XL Category 6 U/UTP Cable: www.commscope.com/#sle.
      b. General Cable Technologies Corporation; GenSPEED Cables: www.generalcable.com/#sle.
      c. Hubbell Premise Wiring; NEXTSPEED Link 6 UTP Cables: www.hubbell.com.

C. Copper Cable Terminations: Insulation displacement connection (IDC) type using appropriate tool; use screw connections only where specifically indicated.

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D. Jacks and Connectors: Modular RJ-45, non-keyed, terminated with 110-style insulation displacement connectors (IDC); high impact thermoplastic housing; suitable for and complying with same standard as specified horizontal cable; UL 1863 listed.
   1. Performance: 500 mating cycles.
   2. Voice and Data Jacks: 8-position modular jack, color-coded for both T568A and T568B wiring configurations.
   3. Product(s):
      a. Hubbell Premise Wiring; Xcelerator Category 6 Jack: www.hubbell.com.

2.03 COMMUNICATIONS EQUIPMENT ROOM FITTINGS

A. Copper Cross-Connection Equipment:
   1. Manufacturers:
      a. Hubbell Premise Wiring: www.hubbell.com.
      b. Substitutions: See Section 01 60 00 - Product Requirements.
   2. Patch Panels for Copper Cabling: Sized to fit EIA/ECA-310 standard 19 inch wide equipment racks; 0.09 inch thick aluminum; cabling terminated on Type 110 insulation displacement connectors; printed circuit board interface.
      a. Jacks: Non-keyed RJ-45, suitable for and complying with same standard as cable to be terminated; maximum 24 ports per standard width panel.
      b. Labels: Factory installed laminated plastic nameplates above each port, numbered consecutively; comply with TIA-606.
      c. Provide incoming cable strain relief and routing guides on back of panel.
   3. Product(s):
      a. Hubbell Premise Wiring; iStation HDPJ High Density Jack Panels: www.hubbell.com.

2.04 COMMUNICATIONS OUTLETS

A. Manufacturers:
   1. Hubbell Premise Wiring: www.hubbell.com.

B. Outlet Boxes:
   1. Provide depth as required to accommodate cable manufacturer's recommended minimum conductor bend radius.

C. Wall Plates:
   1. Comply with system design standards and UL 514C.
   2. Accepts modular jacks/inserts.
   3. Capacity:
      a. Data or Combination Voice/Data Outlets: 2 ports.
   4. Wall Plate Material/Finish - Flush-Mounted Outlets: High impact thermoplastic, color to be selected.
   5. Product(s):
      a. Hubbell Premise Wiring; netSELECT Wallplates: www.hubbell.com.

2.05 IDENTIFICATION PRODUCTS

A. Comply with TIA-606.

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PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Comply with latest editions and addenda of TIA-568 (SET) (cabling), TIA-569-D (pathways), TIA-607-C (grounding and bonding), NECA/BICSI 568, NFPA 70, and SYSTEM DESIGN as specified in PART 2.

B. Comply with Communication Service Provider requirements.

3.02 INSTALLATION OF EQUIPMENT AND CABLING

A. Cabling:
   1. Do not bend cable at radius less than manufacturer's recommended bend radius; for unshielded twisted pair use bend radius of not less than 4 times cable diameter.
   2. Do not over-cinch or crush cables.
   3. Do not exceed manufacturer's recommended cable pull tension.
   4. When installing in conduit, use only lubricants approved by cable manufacturer and do not chafe or damage outer jacket.

B. Service Loops (Slack or Excess Length): Provide the following minimum extra length of cable, looped neatly:
   1. At Distribution Frames: 120 inches.
   2. At Outlets - Copper: 12 inches.

C. Copper Cabling:
   1. For 4-pair cables in conduit, do not exceed 25 pounds pull tension.
   2. Use T568B wiring configuration.

D. Identification:
   1. Use wire and cable markers to identify cables at each end.
   2. Use manufacturer-furnished label inserts, identification labels, or engraved wallplate to identify each jack at communications outlets with unique identifier.
   3. Use identification nameplate to identify cross-connection equipment, equipment racks, and cabinets.

3.03 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements, for additional requirements.

B. Comply with inspection and testing requirements of specified installation standards.

C. Visual Inspection:
   1. Inspect cable jackets for certification markings.
   2. Inspect cable terminations for color coded labels of proper type.
   3. Inspect outlet plates and patch panels for complete labels.

D. Testing - Copper Cabling and Associated Equipment:
   1. Test backbone cables after termination but before cross-connection.
   2. Test backbone cables for DC loop resistance, shorts, opens, intermittent faults, and polarity between connectors and between conductors and shield, if cable has overall shield.
   3. Category 5e and Above Links: Perform tests for wire map, length, attenuation, NEXT, and propagation delay.

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E. Final Testing: After all work is complete, including installation of telecommunications outlets, and telephone dial tone service is active, test each voice jack for dial tone.

END OF SECTION

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SECTION 28 10 00
ACCESS CONTROL

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Access control system requirements.

B. Security Management System (SMS).

C. Security field controllers.

1.02 RELATED REQUIREMENTS

A. Section 08 11 13 - Hollow Metal Doors and Frames.

B. Section 08 43 13 - Aluminum-Framed Storefronts.

C. Section 08 71 00 - Door Hardware: Electrically operated door hardware, for interface with access control system.

D. Section 23 09 23 - Direct-Digital Control System for HVAC: Building automation system.

E. Section 26 05 83 - Wiring Connections

1.03 REFERENCE STANDARDS

A. NECA 1 - Standard for Good Workmanship in Electrical Construction 2015.

B. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

C. UL 294 - Access Control System Units Current Edition, Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Coordinate the work with other installers to provide suitable door hardware as required for both access control functionality and code compliance.
   2. Coordinate the placement of readers with millwork, furniture, equipment, etc. installed under other sections or by others.
   3. Coordinate the work with other installers to provide power for equipment at required locations.

B. Preinstallation Meetings:
   1. Conduct meeting with facility representative to review reader and equipment locations.
   2. Conduct meeting with facility representative and other related equipment manufacturers to discuss access control system interface requirements.

1.05 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Include plan views indicating locations of system components and proposed size, type, and routing of conduits and/or cables. Include elevations and details of proposed equipment arrangements. Include system interconnection schematic diagrams. Include requirements for interface with other systems.

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C. Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.

D. Test Reports: Indicate satisfactory completion of required tests and inspections.

E. Certification: The installer shall Furnish, in writing, proof of compliance with system manufacturer's service and installation certification programs.

F. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and starting of system.

G. Project Record Documents: Record actual locations of system components and installed wiring arrangements and routing.

H. Operation Data: Operating instructions.

I. Maintenance Data: Maintenance and repair procedures.

J. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 60 00 - Product Requirements, for additional provisions.
   2. One (1) credential (key card or fob as directed by Owner) per authorized employee plus 50 additional credentials, preprogrammed to be fully functional within the SMS.
      a. Deliver blank credentials to Owner as directed.

1.06 QUALITY ASSURANCE

A. Comply with the following:
   1. NFPA 70.
   2. The requirements of the local authorities having jurisdiction.
   3. Applicable TIA/EIA standards.

B. Conform to requirements of NFPA 70.

C. Manufacturer Qualifications: Firms with a minimum of 5 years experience in manufacturing equipment of the type and capacities indicated that have a record of successful in-service performance. The prime system manufacturer shall maintain a service center capable of providing training, parts, and emergency maintenance and repairs for the overall system.

D. Manufacturer's Field Representative: Factory representative to be fully certified for all system components and possess minimum 2 years document system design / application experience.

E. Installer Qualifications: Factory authorized sales and service representative for the system submitted. Installer must be capable of providing emergency maintenance and repairs of the overall system at the project site within 24 hours maximum response time. The installer shall have a local office staffed with factory trained technicians, fully capable of supervising installation, system start-up, providing training and servicing of both hardware and software for systems of similar complexity and function as the system described in this specification.
   1. Installing contractor shall be licensed in the State of Illinois to provide the service and equipment described herein. Proof of license(s) must be submitted to the architect prior to award of contract.

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F. Products: Furnish products listed and classified by Underwriters Laboratories Inc. as suitable for purpose specified and indicated.

G. Within six (6) months of substantial completion, provide optional maintenance contract for ongoing service and maintenance of SMS to Owner. Contract acceptance shall be at the sole discretion of the Owner.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Access Control Units - Basis of Design: HONEYWELL PROWATCH 3000 SYSTEM.

B. Readers and Keypads - Basis of Design: HID Global.

C. Basis of Design:

2.02 ACCESS CONTROL SYSTEM REQUIREMENTS

A. Provide products listed, classified, and labeled as suitable for the purpose intended.
   1. Access Control Units and Readers: Listed and labeled as complying with UL 294.

2.03 ACCESS CONTROL POINT PERIPHERALS

A. Door Locking Devices (Electric Strikes and Magnetic Locks): Comply with Section 08 71 00.

2.04 COMPONENTS (BASIS OF DESIGN)

A. Products: Provide products listed and classified by Underwriters Laboratories Inc. (UL 294) as suitable for purpose specified and indicated.

B. Encoded Readers:
   1. Manufacturer: HID Global: www.hidglobal.com.
   2. Product: iCLASS SE R40.
      a. Provide manufacturer's standard kit for glazed side lite mounting applications where indicated on drawings.
      b. Provide R for mullion mount applications where indicated on drawings.

C. Encoded Controllers:
   1. Product: HONEYWELL PROWATCH PW5K1R2 PW-5000 SERIES DUAL READER MODULES.

D. Electric Strikes:
   1. As specified in Section 08 71 00.

E. Door Contacts: Concealed type, unless noted otherwise.
   1. Manufacturer: General Electric Company: www.gesecurity.com.
   2. Product: Sentrol 1078 Series.
      a. Manufacturer's standard finish matched as closely as possible to final frame color.
   3. Provide Sentrol Series 2300 for overhead doors.

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PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that ratings and configurations of system components are consistent with the indicated requirements.

C. Verify that mounting surfaces are ready to receive system components.

D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to system.

E. Verify that conditions are satisfactory for installation prior to starting work.

3.02 COORDINATION OF TRADES

A. Coordinate system installation with related trades including, but not limited to, electrical contractor and carpentry contractor.
   1. Coordinate installation of electrified door hardware.
   2. Coordinate acquisition of electrical installation instructions with carpentry contractor and electrical contractor.

B. SMS contractor to be in attendance at project meetings to arrange coordination of related trades prior to construction of masonry walls.

C. Prior to construction of masonry walls, coordinate location of conduit stubs and related electrical rough-in components for SMS installed by electrical contractor.

D. Obtain electrical instructions and related electrical door hardware components to ensure coordination of electrified door hardware with electrical systems.

E. Act as liaison between trades performing work in Related Section to ensure all documents and accessories related to the SMS are provided in such a manner as to ensure smooth installation and commissioning of the SMS.

3.03 INSTALLATION

A. Install access control system in accordance with NECA 1 (general workmanship).

B. Install components and commission system in accordance with manufacturer's specifications, recommendations and instructions.

C. Wiring Method: Unless otherwise indicated, use cables (not in conduit).
   1. Use suitable listed cables in wet locations, including underground raceways.
   2. Use suitable listed cables for vertical riser applications.
   3. Use listed plenum rated cables in spaces used for environmental air.
   4. Use power transfer hinges complying with Section 08 71 00 for concealed connections to door hardware.
   5. Route exposed cables parallel or perpendicular to building structural members and surfaces.
   6. Do not exceed manufacturer's recommended maximum cable length between components.

D. Install low voltage wire and make low voltage wiring connections to electrified door hardware devices.

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1. Conduit within doors to be provided by door manufacturer.

E. Provide wire sized according to component manufacturer's requirements and recommendations, including those for electrified locking hardware.

F. Install power supplies for electrified door hardware.

3.04 FIELD QUALITY CONTROL

A. See Section 01 40 00 - Quality Requirements, for additional requirements.

B. Manufacturer Services: Furnish services of technician to supervise installation, adjustments, final connections, system testing and commissioning, and to train Owner personnel.

C. Prepare and start system in accordance with manufacturer's instructions.

D. Program system parameters according to requirements of Owner.

E. Test for proper interface with other systems.

3.05 CLOSEOUT ACTIVITIES

A. See Section 01 78 00 - Closeout Submittals, for closeout submittals.

END OF SECTION

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SECTION 28 46 00
FIRE DETECTION AND ALARM

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Modifications to existing fire alarm system, including all components, wiring, and conduit.

B. Replacement and removal of existing fire alarm system components, wiring, and conduit indicated.

1.02 RELATED REQUIREMENTS

A. Section 08 71 00 - Door Hardware: Electrically operated locks and door holder devices to be monitored and released by fire alarm system.

B. Section 21 13 00 - Fire-Suppression Sprinkler Systems: Supervisory, alarm, and actuating devices installed in sprinkler system.

1.03 REFERENCE STANDARDS

A. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines current edition.

B. ADA Standards - 2010 ADA Standards for Accessible Design 2010.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

B. Evidence of designer qualifications.

C. Shop Drawings: Submit all information required for plan review and permitting by authorities having jurisdiction, including but not limited to floor plans, riser diagrams, and description of operation:
   1. Shop drawing submitted to Architect/Engineer shall be approved and signed by the authority having jurisdiction.
   2. Submit point-to-point and single line wiring diagrams showing the point of connection and terminals used for all field connections.
   3. Submit diagrams showing all connections from field devices to control panel.
      a. Include a detailed description of the control panel as it shall operate for this specific installation.
   4. Submit field wiring color-coding legend.
   5. Submit control panel interior wiring diagram.
   6. Indicate existing wiring arrangements and locations of devices and wiring routing.
   7. Copy (if any) of list of data required by authority having jurisdiction.
   8. NFPA 72 "Record of Completion", filled out to the extent known at the time.
   9. Location of all components, circuits, and raceways; mark components with identifiers used in control unit programming.
   10. Manufacturer's detailed data sheet for each component, including wiring diagrams, installation instructions, circuit length limitations, dimensions, ratings, layouts and complete catalog numbers.
      a. Submit UL listings with cross-listing substantiation for each system component clearly marked.

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11. Description of power supplies; if secondary power is by battery include calculations demonstrating adequate battery power.
12. Certification by either the manufacturer of the control unit or by the manufacturer of each other component that the components are compatible with the control unit.
13. Certification by the manufacturer of the control unit that the system design complies with Contract Documents.
14. Certification by Contractor that the system design complies with Contract Documents.
15. Do not show existing components to be removed.

D. Evidence of installer qualifications.

E. Evidence of instructor qualifications; training lesson plan outline.

F. Evidence of maintenance contractor qualifications, if different from installer.

G. Inspection and Test Reports:
   1. Submit inspection and test plan prior to closeout demonstration.
   2. Submit documentation of satisfactory inspections and tests.
   3. Submit NFPA 72 "Inspection and Test Form," filled out.

H. Project Record Documents: See Section 01 78 00 for additional requirements; have one set available during closeout demonstration:
   1. Complete set of floor plans showing actual installed locations of components, conduit, and zones.
   2. "As installed" wiring and schematic diagrams, with final terminal identifications.
   3. "As programmed" operating sequences, including control events by device, updated input/output chart, and voice messages by event.

I. Closeout Documents:
   1. Certification by manufacturer that the system has been installed in compliance with manufacturer's installation requirements, is complete, and is in satisfactory operating condition.
   2. NFPA 72 "Record of Completion", filled out completely and signed by installer and authorized representative of authority having jurisdiction.

1.05 QUALITY ASSURANCE

A. Designer: Qualified employee of fire alarm control panel manufacturer, Contractor, or installer , with experience designing fire alarm systems in the jurisdictional area of the authorities having jurisdiction.
   1. Delegated Engineering Responsibility: Provide design services necessary to modify initiating device circuits, notification circuits and affected control panels and power supplies. Provide all necessary drawings and specification to local authority having jurisdiction for approval to modify this existing system as intended.

B. Manufacturer: Qualified company specializing in smoke detection and fire alarm systems with five years documented experience.

C. Installer: Qualified firm with minimum 5 years documented experience installing fire alarm systems of the specified type and providing contract maintenance service as a regular part of their business.
   1. Authorized representative of control unit manufacturer; submit manufacturer's certification that installer is authorized; include name and title of manufacturer's representative making certification.

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2. Installer Personnel: At least 2 years of experience installing fire alarm systems.
3. Supervisor: NICET level III or IV (3 or 4) certified fire alarm technician; furnish name and address.

D. Maintenance Contractor: Same entity as installer or different entity with specified qualifications.

E. Instructor Qualifications: Experienced in technical instruction, understanding fire alarm theory, and able to provide the required training; trained by fire alarm control unit manufacturer.

F. Qualified personnel includes those persons that are:
1. Factory trained and certified; OR
2. NICET Level III or IV (3 or 4) Fire Alarm certified; OR
3. International Municipal Signal Association Fire Alarm certified; OR
4. Certified by state (Illinois Department of Professional Regulation); OR
5. Trained, qualified, and employed by an organization listed by a national testing laboratory.

1.06 WARRANTY

A. Provide control panel manufacturer's warranty that system components other than wire and conduit are free from defects and will remain so for 1 year after date of Substantial Completion.

B. Provide installer's warranty that the installation is free from defects and will remain so for 1 year after date of Substantial Completion.

C. Contractor shall, as condition precedent to final payment, execute a written guaranty to the Owner. Materials and equipment furnished by him under this Contract shall remain in satisfactory operating condition for a period of one year from the date of the final acceptance of the Work by the Owner. The guaranty shall also include prompt emergency service. All defects or damages due to faulty materials or workmanship shall be repaired or replaced without delay to the Owner's satisfaction and at the Contractor's expense.

1.07 MAINTENANCE

A. Submit Under Provisions of Section 01 78 00.

B. Include operating instructions, and maintenance and repair procedures.

C. Provide a one year full maintenance and inspection service from date of Final Acceptance. Conform to maintenance and inspection service requirements of NFPA 72.

D. Provide a one year supervising station monitoring service from date of Final Acceptance.

1.08 EXISTING CONDITIONS

A. The existing fire alarm system control panel is a SimplexGrinell 4100U Addressable System.
1. The existing control panel will be modified and expanded to feed new devices as shown on the floor plans.
2. Provide new equipment compatible with existing devices and system at site.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Initiating Devices and Notification Appliances:
1. Same manufacturer as control units.

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2. Provide initiating devices and notification appliances made by the same manufacturer, where possible.

B. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 FIRE ALARM SYSTEM

A. Fire Alarm System: Provide modifications and extensions to the existing automatic fire detection and alarm system:
   1. Provide all components necessary, regardless of whether shown in Contract Documents or not.
   2. Protected Premises: Areas denoted on the drawings.
   3. Comply with the following; where requirements conflict, order of precedence of requirements is as listed:
      a. ADA Standards.
      b. The requirements of the local authority having jurisdiction which is City of Geneva.
      c. Applicable local codes.
      d. Contract Documents (drawings and specifications).
      e. NFPA 72; where the word "should" is used consider that provision mandatory; where conflicts between requirements require deviation from NFPA 72, identify deviations clearly on design documents.
   4. Evacuation Alarm: Single smoke zone; general evacuation of entire premises.
   5. Zoning: Point addressable system with initiating devices being individually zoned.
   6. Existing Control Panel: Make modifications to the existing panel:
      a. Additional Power Supplies: Adequate to serve control panel modules, remote detectors, keypads, door holders, relays and alarm signaling devices. Include battery-operated emergency power supply with capacity for operating system in standby mode for 60 hours followed by alarm mode for 5 minutes.

B. Supervising Stations and Fire Department Connections:
   1. Existing connections to remain.

C. Circuits:
   1. Initiating Device Circuits (IDC): Class B, Style A.
   2. Signaling Line Circuits (SLC) Within Single Building: Class B, Style 0.5.
   3. Notification Appliance Circuits (NAC): Class B, Style W.
   4. All cabling shall be plenum rated.

D. Spare Capacity:
   1. Initiating Device Circuits: Minimum 25 percent spare capacity.
   2. Notification Appliance Circuits: Minimum 25 percent spare capacity.
   3. Fire Alarm Control Units: Capable of handling all circuits utilized to capacity without requiring additional components other than plug-in control modules.

E. Power Sources:
   1. Primary: Dedicated branch circuits of the facility power distribution system.
   2. Secondary: Storage batteries.
   3. Capacity: Sufficient to operate entire system for period specified by NFPA 72.
   4. Each Computer System: Provide uninterruptible power supply (UPS).

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2.03 EXISTING COMPONENTS

A. Clearly label components that are "Not In Service."

B. Remove unused existing components and materials from site and dispose of properly.

2.04 FIRE SAFETY SYSTEMS INTERFACES

A. HVAC:
   1. Duct Smoke Detectors: Close dampers indicated; shut down air handlers indicated.

2.05 COMPONENTS

A. General:
   1. Provide flush mounted units where installed in finish areas; in unfinished areas, surface mounted unit are acceptable.
   2. Provide legible, permanent labels for each control device, using identification used in operation and maintenance data.

B. Fire Alarm Power Supplies, Initiating Devices, and Notification Appliances: Analog, addressable type; listed by Underwriters Laboratories as suitable for the purpose intended.

C. Notification Appliances:
   1. Combination Horn/Strobes: NFPA 72 and UL 1971; electronic horn rated 90 dBA average at 10 feet. Provide integral 110 candela strobe lamp and flasher. Provide red trim ring for semi-flush mounting. Synchronize strobes within site of each other. Compatible with control panel.
   2. Strobes: NFPA 72 and UL 1971; Provide integral 110 candela strobe lamp and flasher. Provide red trim ring for semi-flush mounting. Synchronize strobes within site of each other. Compatible with control panel.

D. Zone Module Interface:
   1. Single zone interface module shall provide an addressable input interface to the control panel for monitoring normally open contact devices. Mount inside NEMA 1 enclosure within 10 feet of first monitored device of zone. Compatible with control panel.

E. Control Relay Module:
   1. Programmable control relay shall be located within 10' of device to be controlled. Temporal sound pattern. Audio shall be synchronized.

F. Circuit Conductors: Copper or optical fiber; provide 200 feet extra; color code and label.

PART 3 EXECUTION

3.01 EXAMINATION AND PREPARATION

A. Field inspect existing fire alarm system installation to determine all required interface components necessary for fire alarm system replacement and relocation.

B. Perform repair work on existing system to eliminate trouble conditions.

3.02 INSTALLATION

A. Install in accordance with applicable codes, NFPA 72, NFPA 70, and Contract Documents.

B. Install fire alarm system in accordance with manufacturer's instructions.

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1. Install manual station with operating handle 4 feet above floor. Install horn strobe units 7.5 feet above floor.

C. Conceal all wiring, conduit, boxes, and supports where installed in finished areas.

D. Obtain Owner's approval of locations of devices, before installation.

E. Install instruction cards and labels.

3.03 INSPECTION AND TESTING FOR COMPLETION

A. Perform field inspection and testing of fire alarm system in accordance with Section 01 78 00.

B. Notify Owner 7 days prior to beginning completion inspections and tests.

C. Notify authorities having jurisdiction and comply with their requirements for scheduling inspections and tests and for observation by their personnel.

D. Provide the services of the installer's supervisor or person with equivalent qualifications to supervise inspection and testing, correction, and adjustments.

E. Prepare for testing by ensuring that all work is complete and correct; perform preliminary tests as required.

F. Provide all tools, software, and supplies required to accomplish inspection and testing.

G. Perform inspection and testing in accordance with NFPA 72 and requirements of local authorities; document each inspection and test.
   1. Include description of testing and results in test report.
   2. Perform 100 percent acceptance test to NFPA 72 standards on system.

H. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

3.04 MANUFACTURER'S FIELD SERVICES

A. Include services of technician to supervise installation, adjustments, final connections, and system testing.

3.05 CLOSEOUT

A. Closeout Demonstration: Demonstrate proper operation of all functions to Owner.
   1. Be prepared to conduct any of the required tests.
   2. Have at least one copy of operation and maintenance data, preliminary copy of project record drawings, input/output matrix, and operator instruction chart(s) available during demonstration.
   3. Have authorized technical representative of control unit manufacturer present during demonstration.
   4. Demonstration may be combined with inspection and testing required by authority having jurisdiction; notify authority having jurisdiction in time to schedule demonstration.
   5. Repeat demonstration until successful.

B. Substantial Completion of the project cannot be achieved until inspection and testing is successful and:
   1. Approved operating and maintenance data has been delivered.
   2. Spare parts, extra materials, and tools have been delivered.

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3. All aspects of operation have been demonstrated to Owner.
4. Final acceptance of the fire alarm system has been given by authorities having jurisdiction.

C. Perform post-occupancy instruction within 3 months after Substantial Completion.

END OF SECTION

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Notice

[Closed Bid]

Project Number 23-037 KC Sheriff's Office Renovation Project
Title Bid 23-037 Sheriff's Office Renovation Project

Basic Information

Reference Number 0000323432
Issuing Organization Kane County
Owner Organization
Project Type IFB - Invitation for Bid (Formal)
Project Number 23-037 KC Sheriff's Office Renovation Project
Title Bid 23-037 Sheriff's Office Renovation Project
Source ID PU.AG.USA.1985140.C12442026
Piggyback Solicitation No

Details

Location Kane County, Illinois

Dates

Publication 06/22/2023 08:57 AM CDT
Bid Intent Not Available
Question Acceptance Deadline 07/12/2023 03:00 PM CDT
Questions are submitted online No
Closing Date 07/20/2023 03:30 PM CDT

Prebid Conference 07/11/2023 10:30 AM CDT

Contact Information

Tim Keovongsak
630-232-5929
keovongsaktimothy@co.kane.il.us

Description

The County of Kane is accepting competitive sealed bids from qualified and experienced General Contractor(s) for the Kane County Sheriff's Office Administration wing improvement and renovation project in accordance with the architectural outline specifications, plans, drawings, and requirements.

The Project consists of the construction of selective demolition, masonry work, steel lintels, doors and glazing, drywall, painting, flooring, ceilings, electrical, plumbing, HVAC, fire suppression, and specialties equipment. This is a prevailing wage project.

Bonding Requirements

- Bid Bond 5.00 %
- Performance Bond 100.00 %
- Labor and Materials Bond 100.00 %
- Payment Bond 100.00 %

Pre-Bidding Events

Event Type Prebid Conference
Attendance Recommended
Event date 07/11/2023 10:30 AM CDT
Location Kane County Sheriff's Office - 37W755 IL. Route 38. St. Charles, IL 60175
Event Note Lobby Entrance

Bid Submission Process

Bid Submission Type Electronic or Physical Bid Submission
Pricing In attached document
Pricing In attached document
Bid Documents List

Item Name	Description	Mandatory	Limited to 1 file
Bid Documents	Documents defining the proposal	Yes	No

Additional Bidding Instructions

PRE-BID SITE MEETING: **10:30 a.m., Tuesday, July 11, 2023**
Kane County Kane County Sheriff's Office

37W755 IL-38
St. Charles, IL 60175

All questions pertaining to this bid and/or the scope of services should be directed to the Purchasing Office as listed on the cover sheet NO LATER THAN, July 12, 2023 at 3:00 p.m., FAX AND E-MAIL ACCEPTED. FAX to (630) 208-5107 or
E-mail:purchasing@co.kane.il.us

ATTACHMENTS:
PROJECT MANUAL FOR NEW ADMINISTRATION WING
PROJECT NO. 23-471-1466 (Dated May 5, 2023) & DRAWING.

ARCHITECT / ENGINEER:
KLUBER, INC.
41 W. BENTON STREET
AURORA, ILLINOIS 60506

Categories

Selected Categories

NIGP Categories (5)	
909	**BUILDING CONSTRUCTION SERVICES, NEW (INCL. MAINTENANCE AND REPAIR SERVICES)**
90924	**Building Construction, Commercial and Institutional** Building Construction, Commercial and Institutional
90900	**BUILDING CONSTRUCTION SERVICES, NEW (INCL. MAINTENANCE AND REPAIR SERVICES)**
90922	**Building Construction, Non-Residential (Office Bldg., etc.)** Building Construction, Non-Residential (Office Bldg., etc.)
90921	**Building Construction, Industrial (Warehouse, etc.)** Building Construction, Industrial (Warehouse, etc.)
906	**ARCHITECTURAL SERVICES, PROFESSIONAL**
90638	**General Construction - Architectural** General Construction - Architectural

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Document Request List

Plan Holders List

Organization Name	Main Contact	Download Date	City	Province/State
Main Architecture	Jean Pluta	07/14/2023 01:53 PM CDT	Chicago	Illinois
Intelligent Conservation Systems, Inc.	Michael Campbell	07/14/2023 01:02 PM CDT	Oviedo	Florida
CCC Holdings, Inc.	Tina Royse	07/12/2023 11:01 AM CDT	Tinley Park	Illinois
Kluber Architects + Engineers	Kelsey Skager	07/11/2023 12:45 PM CDT	Aurora	Illinois
kane county	Michele Matuszak	07/10/2023 08:39 PM CDT	Geneva	Illinois
Doherty Construction, INc.	Cory Entzminger	07/10/2023 03:11 PM CDT	Woodstock	Illinois
Benton Plumbing	Thomas Benton	07/10/2023 01:24 PM CDT	Atlanta	Georgia
Government Services Exchange	Alec Saputo	07/03/2023 08:26 AM CDT	Clearwater	Florida
Metalmaster Roofmaster	Estimating Department	06/29/2023 05:29 PM CDT	McHenry	Illinois
Chicagoland	Bo Kim	06/29/2023 01:04 PM CDT	Peoria	Illinois
Kandu Construction Inc.	Jacob Kandu	06/29/2023 10:16 AM CDT	Skokie	Illinois
Securitas Technology	Mickey Wydick	06/29/2023 09:22 AM CDT	Fishers	Indiana
Drill Tech Drilling & Shoring Inc	Chyenne Creson	06/28/2023 10:47 AM CDT	Antioch	California
Jojalis Corporation	Charlie Rosenstein	06/27/2023 02:41 PM CDT	Plainview	New York
DataBid	Kristan Nalley	06/26/2023 07:15 PM CDT	Newtown	Pennsylvania
RoMAAS, Inc.	Alexandru Mihailescu	06/26/2023 06:19 PM CDT	Glen Ellyn	Illinois
Axent Solutions	Jon Wahler	06/26/2023 12:09 PM CDT	Lisle	Illinois
G. Fisher Commercial Construction	Heather Bownes	06/26/2023 11:10 AM CDT	Montgomery	Illinois
Commercial Mechanical Inc	Rachel Baker	06/26/2023 10:37 AM CDT	Dunlap	Illinois
Straub Builders Inc dba Hargrave Builders Inc	Mary Comiskey	06/26/2023 09:32 AM CDT	South Elgin	Illinois
School Wholesale Supplies LLC	JP DAS	06/26/2023 04:49 AM CDT	Nashville	Tennessee
MRRW Construction	Michael Russ	06/23/2023 02:22 PM CDT	Montgomery	Illinois
Leopardo Companies	Colm Hughes	06/23/2023 09:05 AM CDT	Hoffman Estates	Illinois
Ostrander Construction, Inc.	Connor Ostrander	06/23/2023 06:28 AM CDT	Downers Grove	Illinois
Construction Journal	Construction Journal	06/23/2023 12:06 AM CDT	Stuart	Florida
ePlan	ePlan Reporter	06/22/2023 03:04 PM CDT	Columbia	Missouri
R.L. Sohol General Contractor, Inc.	Dan Matzen	06/22/2023 12:51 PM CDT	Plainfield	Illinois
Allied Solutions	Jason Collier	06/22/2023 11:23 AM CDT	Carmel	Indiana
Lite Construction Inc.	John Campbell	06/22/2023 10:28 AM CDT	Montgomery	Illinois
Reed Construction	Raymond Lefebvre	06/22/2023 10:21 AM CDT	Chicago	Illinois
Manusos General Contracting, Inc.	Estimating Department	06/22/2023 10:01 AM CDT	Fox Lake	Illinois

Organization Name	Main Contact	Download Date	City	Province/State
North America Procurement Council, Inc. PBC	Tim Loncarich	06/22/2023 10:01 AM CDT	Grand Junction	Colorado
John Keno & Construction Inc	Riley Barron	06/22/2023 09:14 AM CDT	Chicago	Illinois
Industria, Inc	Neil Francis	06/22/2023 09:05 AM CDT	Des Plaines	Illinois

Thank you for your interest in our bid opportunities and we welcome you to submit a response. Please be sure to review and comply with all specifications and requirements.

June 12, 2023

Edward Catich
Kane County Sheriff's Office
37W755 IL- 38
Suite A
St. Charles, IL 60175

Re: Kane County Sheriff – Office Renovation – Construction Administration Services
Kluber, Inc. Proposal No. 230612.01

Dear Mr. Catich:

Thank you for the opportunity to present this Proposal for Professional Services for the above referenced Project. It is our understanding that Kane County Sheriff desires to hire Kluber to perform Bidding/Negotiation and Construction Administration Phase Basic Services for the Sheriff's office renovation project.

OVERVIEW OF PROJECT SCOPE
The Project consists of the management of the Basic Service phases of the Bidding/Negotiations and the Construction Administration phases of the Project which Kluber has completed and prepared the Construction Documents for the interior modifications.

INITIAL INFORMATION
- The anticipated Project schedule is to be determined as mutually agreed, but it is Kluber's understanding that the total duration of the Bidding/Negotiation and Construction phase of the project will take approximately 7 months.
- The intended Project delivery method is a single contract for General Construction; single bid package.
- The Owner's representative for the Project will be Edward Catich.
- Kluber, Inc.'s representative for the Project will be Charli Johnsos.

The foregoing is based on our conversations with you over the past few weeks and the recently completed Construction Documents prepared by our office dated 05/05/2023.

BASIC SERVICES
Kluber, Inc. proposes to provide usual and customary architectural and engineering Basic Services for the Project as set forth in the standardized *AIA B101 - 2017 Standard Form of Agreement between Owner and Architect*, and in accordance with the general understandings applicable to our relationship with you, with limitations as follows:

Bidding Phase: (Assumption is 2 month duration)

- Assist Owner in contacting potential bidders for Project.
- Prepare agenda and attend pre-bid meeting.
- Respond to contractor questions during bidding.
- Issue addenda (if required).
- Attend bid opening.
- Perform contractor bid review evaluations.
- Prepare and issue contractor bid results letter.

Construction Administration Phase: (Assumption is 5 month duration)

- Prepare agenda and attend pre-construction meeting.
- Respond to Contractor questions.
- Review progress pay requests if requested.
- Perform a maximum of two (2) site visits per month for progress meetings, to address contractor questions and to observe the work is proceeding in general conformance with the contract documents with a maximum of 10 visits.
- Perform up to two (2) reviews of each construction submittal.
- Perform one (1) site visit to confirm Substantial Completion and identify punch list items.
- Perform one (1) site visit to verify completion of punch list items and confirm Final Completion of the Work.

ADDITIONAL SERVICES

Additional Services are not included in the Basic Services described above, but may be required for the Project or specifically requested by Kane County Sheriff.

COMPENSATION

Kluber, Inc. proposes to provide the Basic Services described above for a lump sum fee of $19,950.00.

Kluber, Inc. proposes to provide the Additional Services described above for the fees scheduled below.

Compensation for Basic and Additional Services does not include the services of other independent professionals, associates, or other consultants. If they are required, our fee will be increased by the direct costs of those services multiplied by a factor of 1.15 for overhead, coordination and management of the delivery of those services.

Our billing for Services will be based on progress of the work performed and is outlined as follows:

Basic Services:
Bidding/Negotiation Phase $2,450.00
Construction Administration Phase $17,500.00

Total Basic Services Fee:..... $19,950.00

Additional Services:
As requested ..... At Hourly Rates listed below
Each Additional Site Visit.....$550.00 per visit

Reimbursable Expenses incurred in connection with our services will be charged on the basis of cost, without additional markup. Anticipated reimbursable expenses for this project include expedited courier services, printing and plotting, document reproduction, premiums for professional liability insurance in excess of usual and customary coverage and models, renderings or professional photography, and are anticipated not to exceed $250.00.

Changes in services, when authorized, will be charged on an hourly rate as scheduled hereafter and amended annually in accordance with our hourly rate schedule (2023):

Kluber Architects + Engineers Staff	Hourly Rate
Principal	$225.00
Project Manager	$175.00
Project Mechanical Engineer III	$165.00
Project Mechanical Engineer II	$140.00
Project Mechanical Engineer I	$115.00
Project Electrical Engineer III	$165.00
Project Electrical Engineer II	$140.00
Project Electrical Engineer I	$115.00
Project Structural Engineer III	$165.00
Project Structural Engineer II	$140.00
Project Structural Engineer I	$115.00
Project Technologist	$165.00
Project Architect III	$135.00
Project Architect II	$115.00
Project Architect I	$95.00
Interior Designer III	$115.00
Interior Designer II	$95.00
Interior Designer I	$75.00
Construction Observer	$95.00
Senior Project Coordinator	$75.00
Project Coordinator	$55.00
Mark-up for hourly Projects (indirect costs, OH & P)	20.0%

Limitation of Liability: Notwithstanding any other provision of this Agreement, and to the fullest extent permitted by law, the total liability, in the aggregate, of Kluber, Inc.'s officers, directors, partners, employees, agents, and Kluber's Consultants, and any of them to Owner/Client and anyone claiming by, through, or under Owner/Client for any and all claims, losses, costs, or damages whatsoever arising out of, resulting from, or in any way related to the Project or the Subagreement from any cause or causes, including but not limited to the negligence, professional errors or omissions, strict liability or breach of contract, or warranty express or implied of Kluber's officers, directors, partners, employees, agents, or Kluber's Consultants, or any of them shall not exceed the total amount of two times fee, excluding reimbursable expenses. The services provided herein are governed solely with regards to permanent building codes only, compliance with OSHA regulations is specifically excluded.

TIMING

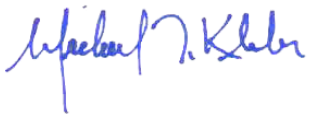
All services contemplated within this proposal shall be completed within 7 months after the acceptance date. Services performed after closure of that window will be billed hourly in accordance with the rates set forth above. This proposal is valid for a period of up to 45 days from the date noted on this proposal.

FINAL NOTE

If this proposal satisfactorily sets forth your understanding of our agreement, we would appreciate your authorization to proceed with this Work. We are available to discuss any aspect of this proposal with you at your convenience.

Kluber, Inc. appreciates the interest expressed in our firm and we look forward to serving your needs in the future.

Sincerely,



Michael T. Kluber, P.E.
President
Kluber, Inc.

Accepted (Signature) Date

By (printed name and title)

Confidentiality Notice: The contents of this proposal are confidential and may not be distributed to persons other than Kane County Sheriff.

BID BOND:

All bids must be accompanied by a Bank Cashier's Check, Bank Draft, Certified Check, or Bid Bond for not less than Five Thousand Dollars ($5,000.00), or 5% of the total base bid.

Accompanying this Bid is a Bank Cashier's Check, Bank Draft, Certified Check, or Bid Bond, complying with the requirements of the specifications, made payable to the **KANE COUNTY.**

The amount of the check, draft or bond is five percent of total base bid ($ 5% (of total bid)).

****

Attach Bank Draft, Bank Cashier's Check, Certified Check or Bid Bond Here.

****

In the event that one check, draft or bond is intended to cover two or more bids, the amount must be equal to the sum of the bid guarantees of the individual sections covered.

SURETY: I have notified a Surety Company that I am submitting a bid for work to be performed on the project. The Surety Company has agreed to issue a performance and labor and material payment bond for my work, if my bid is accepted and the contract awarded to me.

NO-BID/RFP/RFQ RESPONSE

BID 23-037

KC- Sheriff's New Administration Wing Renovation

In the event that your organization chooses not to submit a response to this solicitation, the Kane County Purchasing Department is interested in the reasons why vendors/consultants have chosen not to submit a bid or proposal response in order to better serve the taxpayers of Kane County. Please indicate your reason(s) by checking all applicable items below and return this form to the address shown below.

- ☐ Could not meet the specifications.
- ☐ Items or materials requested not manufactured by us or not available to our company.
- ☐ Insurance requirements too restricting.
- ☐ Bond requirements too restricting.
- ☐ Scope of services not clearly understood or applicable (too vague, too rigid, etc.).
- ☐ Project not suited to our organization.
- ☐ Quantities too small.
- ☐ Insufficient time allowed for preparation of bid/proposal response.
- ☒ Other (please specify): We are Bidding this project

Vendor Name: Lite Construction, Inc

Contact Person: James E Campbell

Telephone: 630/896/7220

Email: timc@liteconstruction.com

Please send your response to: purchasing@co.kane.il.us

KANE COUNTY
OFFER TO CONTRACT FORM
BID 23-037
Kane County Sheriff – New Administration Wing Renovation

Bid Due Date & Time: Thursday, July 20, 2023 at 3:30 p.m. CST

Bid response must submit electronically to https://www.bidnetdirect.com/illinois/kanecounty

To: County of Kane Purchasing Department
Kane County Government Center
Bldg. A, Room 214 719 S. Batavia Ave., Geneva, IL 60134

The following offer is hereby made to the County of Kane, Illinois, hereafter called the Owner.

Submitted By: Lite Construction, Inc

I. The undersigned Vendor proposes and agrees, after having examined the specifications, quantities, and other contract documents, to irrevocably offer to furnish the materials, equipment, and services in compliance with all terms, conditions, specifications, and amendments contained in the bid solicitation documents. The items in this Invitation to Bid, including, but not limited to, all required certificates, are fully incorporated herein as a material and necessary part of the contract.

A. *The Vendor shall also include with his bid any necessary literature, samples, etc., as required within the Invitation to Bid, Instructions to Bidders, and specifications.*

1. *the Vendor has examined the Contractor Disclosure (Section 28) of the Instruction to Bidders and has included or provided a certified document listing all cumulative campaign contributions made within the past twelve months, to any current or county-wide elected officer, and ownership interest in entity greater than five percent.*

B. For purposes of this offer, the terms Offeror, Bidder, General Contractor, Contractor, and Vendor are used interchangeably.

II. In submitting this Offer, the Vendor acknowledges:

A. All bid documents have been examined: Instructions to Bidder, Statement of Work, including the Specifications, and the following addenda:

No. 1 , No. _____, No. _____, No. _____, No. _____, (Contractor to acknowledge addenda here.)

B. The site(s) and locality have been examined by the Vendor where the service is to be performed, the legal requirements (federal, state, and local laws, ordinances, rules, and regulations), and the conditions affecting the cost, progress, or performance of the work and has made such independent investigations, as Vendor deems necessary.

C. To be prepared to execute a contract with the Owner within ten (10) calendar days after acceptance of the bid by the Owner.

III. BASE BIDS: Project #23-471-1466

The Undersigned agrees to furnish all labor, materials, and equipment necessary for the completion of the Administration Wing Renovation Project in accordance with the architectural outline specifications, drawings, and contract requirements for the Kane County Sheriff's Office. Prevailing wage rates apply to this project.

TOTAL COMPLETE PROJECT COST OF $ 649,674.00
Six hundred forty nine thousand six hundred & seventy four dollars

PROJECT TIMEFRAME & GUARANTEE:
The Undersigned attests that he is able to perform the Work of the Contract within the parameters of the following construction timeframe, and further agrees to adhere to that schedule as a provision of the Contract Agreement.

Guaranteed delivery and completion of the project per specifications will be (180) calendar days or earlier from the receipt of the Purchase Order from the Kane County Sheriff's Office. ***Bidder shall fill in the above number of days to deliver and complete the project.*** **(The Overall Project Completion Deadline must be December 31, 2023).** Unless otherwise negotiated with the Kane County Sheriff's Office or the designated project manager.

By signing this Bid, the Offeror hereby certifies that they are not barred from bidding on this contract as a result of a violation of either Section 33E-3 or 33E-4 of the Illinois Criminal Code of 1961, as amended. The awarding of any contract resulting from this Bid will be based upon the funding available to Kane County, which may award all or part of this project. The terms of the Bid and the response shall be incorporated by this reference as though fully set forth into the Contract notwithstanding any language in the contract to the contrary. In the event of any conflict between the terms of the Contract and the terms of the Bid and the response, the terms of the Bid and the response shall govern. Every element or item of the Bid and the response shall be deemed a material and a severable item or element of the contract. **AN AUTHORIZED REPRESENTATIVE OF THE COMPANY OR ENTITY RESPONDING TO THE BID AND THE RESPONSE SHALL SIGN THIS SECTION.**

Signature _____ Typed Signature James E Campbell

Company Life Construction, Inc

Address/City/State 711 S! Lake St. Montgomery IL 60538

Phone # 630/896/7220 Fax # 630/896/1304

Federal I.D./Social Security # 36-3118974 Date 7/20/23

ACCEPTANCE

The Offer is hereby accepted for ***KANE COUNTY SHERIFF – NEW ADMINISTRATION WING RENOVATION***

The Vendor is bound to provide the services and materials listed by the attached contract and based upon the Invitation to Bid, including all terms, conditions, specifications, and amendments, and the Vendor's offer is accepted by the County of Kane.

This contract shall henceforth be referred to as Contract Number 23-037. The Vendor has been cautioned not to commence any billable work or to provide any supplies or services until said vendor receives a purchase order and or notice to proceed.

_____ _____
Corinne M. Pierog MA, MBA Date
Chairman, County Board
Kane County, Illinois

VENDOR CERTIFICATION

This information is collected for reporting purposes only and will not have any influence on vendor selection. It is required by the State of Illinois. Please check any of the following boxes that apply to the ownership of your firm.

- ☐ Minority-owned Business (MBE)
- ☐ Woman-owned Business (WBE)
- ☐ Business Enterprise Program (BEP)
- ☐ Small Disadvantaged Business (SDB)
- ☒ Kane County Local Business
- ☐ Veteran-owned Business Enterprise (VBE)
- ☐ Service-Disabled Veteran-owned Business Enterprise (SDVBE)
- ☐ Veteran-owned Small Business (VOSB)
- ☐ Persons with Disabilities-owned Business Enterprises (PDBE)
- ☐ N/A – These categories do not apply to my business

Please Note: It is required that you check at least one box.

REFERENCES
SHERIFF'S NEW ADMINISTRATION WING RENOVATION
For
KANE COUNTY BOARD, Geneva, Illinois

List below businesses or other organizations for which you have provided comparable services within the last three years:
Offeror's Name: Lite Construction, Inc

1. Organization: See Attached AIA A305
   Address: _____
   City, State, Zip Code: _____
   Telephone Number: _____
   Contact Person: _____
   Date of Project: _____
   E-mail Address: _____
2. Organization: _____
   Address: _____
   City, State, Zip Code: _____
   Telephone Number: _____
   Contact Person: _____
   Date of Project: _____
   E-Mail Address: _____
3. Organization: _____
   Address: _____
   City, State, Zip Code: _____
   Telephone Number: _____
   Contact Person: _____
   Date of Project: _____
   E-Mail Address: _____
4. Organization: _____
   Address: _____
   City, State, Zip Code: _____
   Telephone Number: _____
   Contact Person: _____
   Date of Project: _____
   E-Mail Address: _____

REQUIRED CONTACT INFORMATION

The vendor shall provide the following contact information.

Customer Service/General Information: Ph: 630/896/7220

To place an order: Name: Tim Campbell

Ph: 630-896-7220 Fax: 630/896/1304

E-mail: timc@liteconstruction.com

Billing & Invoicing question:

Name: Tim Campbell

Ph: 630-896-7220

E-mail: timc@liteconstruction.com

Operation: Supervisor

Name: Tim Campbell

Ph: 630-896-7220

E-mail: timc@liteconstruction.com

24-hours answering service:

Ph: 630-896-7220

BID SUBMITTAL CHECK LIST

The undersigned Vendor acknowledged and verified that all required documents, statements, and all certificates meeting County's requirements are included in their bid response. The vendor shall check the following required submittal items checklist to assure the completeness and in order for assembling of their bid response.

X: SIGNED BID OFFER TO CONTRACT FORM with all supporting documents (pages 24-27).

X: VENDORS DISCLOSURE STATEMENT (See attached sample, a mandatory submittal if award of the contract)

X: VENDORS FAMILIAL RELATIONSHIP DISCLOSURE STATEMENT (See attached sample, a mandatory submittal if award of the contract)

X: PROOF OF CURRENT CERTIFICATE OF INSURANCE (Submit current coverages with bid response). The actual certificate of insurance that meets the County's requirements including naming the County of Kane, as a certificate holder and additional name insured with required policy endorsements shall be submitted before issuing of award and contract execution. (See attached sample, a mandatory submittal if award of the contract)

X: REFERENCES & CONTACT INFORMATION

X: ONE (1) ORIGINAL BID, MUST BE SUBMITTED ELECTRONICALLY THROUGH BIDNET DIRECT.

X: *Bid Bond (5%) required with bid submittal. The awarded Vendor must furnish a Performance Bond if awarding the contract.*

Vendor/Agency: Lite Construction, Inc

Address/City/State: 711 S. Lake St. Montgomery IL 60538

Phone # 630/896/7220 Fax # 630/896/1304

SECTION 01 61 16.01
ACCESSORY MATERIAL VOC CONTENT CERTIFICATION FORM

1.01 PRODUCT CERTIFICATION

A. I certify that the installation work of my firm on this project:
   1. [HAS] [HAS NOT] required the use of any ADHESIVES.
   2. [HAS] [HAS NOT] required the use of any JOINT SEALANTS.
   3. [HAS] [HAS NOT] required the use of any PAINTS OR COATINGS.
   4. [HAS] [HAS NOT] required the use of any COMPOSITE WOOD or AGRIFIBER PRODUCTS.

B. Product data and MSDS sheets are attached.

2.01 CERTIFIED BY: (INSTALLER/MANUFACTURER/SUPPLIER FIRM)

A. Firm Name: Lite Construction, Inc

B. Print Name: James E Campbell

C. Signature: _____

D. Title: President (officer of company)

E. Date: 7/20/23

END OF SECTION

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SECTION 00 43 23
BID FORM SUPPLEMENT - LIST OF ALTERNATES

1.01 PARTICULARS

A. The following is the list of Alternates referenced in the bid submitted by:

(Bidder) Lite Construction, Inc

Dated 7/20/23 and which is an integral part of the Bid Form.

1.02 ALTERNATES LIST

A. The following amounts shall be added to or deducted from the Bid Amount. Refer to Section 01 23 00 - Alternates: Schedule of Alternates.

1. Alternate # 1: (Add) (Deduct) $ 0.00

END OF DOCUMENT

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LITE CONSTRUCTION, INC.
711 S. Lake St. • P.O. Box 135
Montgomery, IL 60538

Phone (630) 896-7220
FAX (630) 896-1304

Contractor Disclosure

As of 7/20/2023, Lite Construction, Inc. to the best of our knowledge the Owners, Officers or Executives have not made any political campaign contributions to any Kane County Elected Official Countywide in the last 12-month period.

Below is a list of shareholders or owners, with at least 5% holding in Lite Construction, Inc.

James E Campbell 701 E. Abe St. Plano IL 60545	49.92%
Tim Campbell 330 Old Mill Rd. Plano IL 60545	26.04%
Tammi Campbell 330 Old Mill Rd. Plano IL 60545	24.04%

Officer
Title President

7/20/2023
Date

Subscribed and sworn this 20 day of July, 2023.

Notary Public

"OFFICIAL SEAL"
DAWN L KANTORSKI
NOTARY PUBLIC, STATE OF ILLINOIS
My Commission Expires 07/11/2026

LITE CONSTRUCTION, INC.
711 S. Lake St. • P.O. Box 135
Montgomery, IL 60538

Phone (630) 896-7220
FAX (630) 896-1304

FAMILIAL RELATIONSHIP DISCLOSURE

As of 7/20/2023, Lite Construction, Inc. to the best of our knowledge the Owners, Officers or Executives do not have a familial relationship with any County Elected Official or County Department Director within the last 12-month period. "Familial Relationship" is defined in the public Act 101-0544.

The County may deny, suspend, or terminate the eligibility of a person, firm, corporation, association, agency, institution, or other legal entity to participate as a vendor for goods or services to the County, if the vendor, for contracts greater that $30,000.00, fails to disclose to the County a familial relationship between a County Elected Official or County Department Director.

Officer

Title President

7/20/2023
Date

Subscribed and sworn this 20 day of July, 2023.

Notary Public

"OFFICIAL SEAL"
DAWN L KANTORSKI
NOTARY PUBLIC, STATE OF ILLINOIS
My Commission Expires 07/11/2026

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 7/20/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: GREG S LEBEAU	
GREG S LEBEAU (03379) 1921 W WILSON ST BATAVIA, IL 60510-0000	PHONE (A/C, No, Ext): 630-406-6900	FAX (A/C, No): 630-406-6994
	E-MAIL ADDRESS: GREG.LEBEAU@COUNTRYFINANCIAL.COM	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : COUNTRY Mutual Insurance Company	20990
INSURED 2888275 LITE CONSTRUCTION INC 711 S LAKE ST PO BOX 135 MONTGOMERY, IL 60538	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	GENERAL LIABILITY ✓ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ✓ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ✓ PRO-JECT ☐ LOC	✓		AB2157170	7/1/2023	7/1/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 2,000,000 $ 100,000 $ 10,000 $ 2,000,000 $ 4,000,000 $ 4,000,000
A	AUTOMOBILE LIABILITY ☐ ANY AUTO ✓ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ✓ HIRED AUTOS ✓ NON-OWNED AUTOS	✓		AB2157170	7/1/2023	7/1/2024	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	✓ UMBRELLA LIAB ✓ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE ☐ DED ✓ RETENTION $ 10,000	✓		AU2157170	7/1/2023	7/1/2024	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: Y If yes, describe under DESCRIPTION OF OPERATIONS below	N/A		AW2157170	7/1/2023	7/1/2024	✓ WC STATU-TORY LIMITS ☐ OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

JOB NAME:
KANE COUNTY SHERIFF'S OFFICE RENOVATION PROJECT

REMARKS:
(CONTINUED)

CERTIFICATE HOLDER

KANE COUNTY SHERIFF'S OFFICE
37W755 IL-38 SUITE A
ST CHARLES, IL 60175

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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AIA® Document A310™ – 2010

Bid Bond

CONTRACTOR:
(Name, legal status and address)
Lite Construction, Inc.
711 S. Lake Street
Montgomery, IL 60538

SURETY:
(Name, legal status and principal place of business)
Travelers Casualty and Surety Company of America
One Tower Square
Hartford, CT 06183

OWNER:
(Name, legal status and address)
County Of Kane
719 S Batavia Ave, Bldg A
Geneva, IL 60134

BOND AMOUNT: Five Percent of Accompanying Bid

PROJECT:
(Name, location or address, and Project number, if any)
23-037 Kane County Sheriff's Office Renovation Project

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

LITE CONSTRUCTION, INC. CORPORATE SEAL ILLINOIS

Signed and sealed this 20th day of July, 2023

Tammi Campbell
(Witness)

Lite Construction, Inc.
(Principal) *(Seal)*

James E Campbell - President
(Title)

Travelers Casualty and Surety Company of America
(Surety) *(Seal)*

(Witness)

David Kotula, Attorney-in-Fact
(Title)

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

Init.
/

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061110

G-23208-B ss.

STATE OF IL

COUNTY OF WILL

I, Brandie Catlin, Notary Public of Will County, in the State of Illinois, do hereby certify that David Kotula Attorney-in-fact, of the Travelers Casualty and Surety Company of America, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person, and acknowledged that he signed, sealed and delivered said instrument, for and on behalf of the Travelers Casualty and Surety Company of America, for the uses and purposes therein set forth.

Given under my hand and notarial seal at my office in the City of Lockport in said County, this 20th day of July A.D. 2023.

Brandie Catlin Notary Public

TRAVELERS

Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint DAVID KOTULA of GENEVA , Illinois , their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **21st** day of **April, 2021.**

State of Connecticut

City of Hartford ss.

By: _____
Robert L. Raney, Senior Vice President

On this the **21st** day of **April, 2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2026**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 20th day of July ,2023

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

AIA® Document A305™ – 1986

Contractor's Qualification Statement

The Undersigned certifies under oath that the information provided herein is true and sufficiently complete so as not to be misleading.

SUBMITTED TO: Kluber Architects
ADDRESS: 719 S. Batavia Ave. Bldg. A
Geneva IL 60134

SUBMITTED BY: James E Campbell
NAME: Lite Construction Inc.
ADDRESS: 711 S. Lake St. Montgomery IL 60538

PRINCIPAL OFFICE:

[X] Corporation
[ ] Partnership
[ ] Individual
[ ] Joint Venture
[ ] Other

NAME OF PROJECT *(if applicable)*: Kane County Sheriffs Office Reno.

TYPE OF WORK (file separate form for each Classification of Work):

[X] General Construction
[ ] HVAC
[ ] Electrical
[ ] Plumbing
[ ] Other (please specify)

§ 1. ORGANIZATION

§ 1.1 How many years has your organization been in business as a Contractor? 42yrs

§ 1.2 How many years has your organization been in business under its present business name? 42yrs

§ 1.2.1 Under what other or former names has your organization operated? none

§ 1.3 If your organization is a corporation, answer the following:

§ 1.3.1 Date of incorporation: 1980

§ 1.3.2 State of incorporation: Illinois

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

This form is approved and recommended by the American Institute of Architects (AIA) and The Associated General Contractors of America (AGC) for use in evaluating the qualifications of contractors. No endorsement of the submitting party or verification of the information is made by AIA or AGC.

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User Notes: (2632444087)

§ 1.3.3 President's name: James E Campbell
§ 1.3.4 Vice-president's name(s) Tim Campbell

§ 1.3.5 Secretary's name: Tammi Campbell
§ 1.3.6 Treasurer's name: Tammi Campbell

§ 1.4 If your organization is a partnership, answer the following:
§ 1.4.1 Date of organization:
§ 1.4.2 Type of partnership (if applicable):
§ 1.4.3 Name(s) of general partner(s)

§ 1.5 If your organization is individually owned, answer the following:
§ 1.5.1 Date of organization:
§ 1.5.2 Name of owner:

§ 1.6 If the form of your organization is other than those listed above, describe it and name the principals:

§ 2 LICENSING
§ 2.1 List jurisdictions and trade categories in which your organization is legally qualified to do business, and indicate registration or license numbers, if applicable.

Fox Valley General Contractors Association

§ 2.2 List jurisdictions in which your organization's partnership or trade name is filed.

N/A

§ 3. EXPERIENCE
§ 3.1 List the categories of work that your organization normally performs with its own forces.

Concrete, Carpentry, Bricklayer

§ 3.2 Claims and Suits. (If the answer to any of the questions below is yes, please attach details.)
§ 3.2.1 Has your organization ever failed to complete any work awarded to it?

NO

§ 3.2.2 Are there any judgments, claims, arbitration proceedings or suits pending or outstanding against your organization or its officers?

NO

§ 3.2.3 Has your organization filed any law suits or requested arbitration with regard to construction contracts within the last five years?

NO

§ 3.3 Within the last five years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction contract? (If the answer is yes, please attach details.)

NO

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User Notes: (2632444087)

§ 3.4 On a separate sheet, list major construction projects your organization has in progress, giving the name of project, owner, architect, contract amount, percent complete and scheduled completion date.

See Attached

§ 3.4.1 State total worth of work in progress and under contract:

4 Million

§ 3.5 On a separate sheet, list the major projects your organization has completed in the past five years, giving the name of project, owner, architect, contract amount, date of completion and percentage of the cost of the work performed with your own forces.

See Attached

§ 3.5.1 State average annual amount of construction work performed during the past five years:

9 Million

§ 3.6 On a separate sheet, list the construction experience and present commitments of the key individuals of your organization.

See Attached

§ 4 REFERENCES

§ 4.1 Trade References:

See Attached

§ 4.2 Bank References:

Harris Bank - Diana Berndit - P 630-420-3571

Old Second - Will Garzia - P 630-906-5502

§ 4.3 Surety:

§ 4.3.1 Name of bonding company:

Travelers Casualty & Surety Company of America

215 Shuman Blvd Naperville IL 60563

§ 4.3.2 Name and address of agent:

Kotula Group
225 N Green St. Chicago IL 60607

§ 5 FINANCING

§ 5.1 Financial Statement.

§ 5.1.1 Attach a financial statement, preferably audited, including your organization's latest balance sheet and income statement showing the following items: See Attached

Current Assets (e.g., cash, joint venture accounts, accounts receivable, notes receivable, accrued income, deposits, materials inventory and prepaid expenses);

Net Fixed Assets;

Other Assets;

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User Notes: (2632444087)

Current Liabilities (e.g., accounts payable, notes payable, accrued expenses, provision for income taxes, advances, accrued salaries and accrued payroll taxes);

Other Liabilities (e.g., capital, capital stock, authorized and outstanding shares par values, earned surplus and retained earnings).

§ 5.1.2 Name and address of firm preparing attached financial statement, and date thereof:

Weber & Associates 630-897-4500

314 N Lake St Aurora IL 60506

§ 5.1.3 Is the attached financial statement for the identical organization named on page one?

YES

§ 5.1.4 If not, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g., parent-subsidiary).

§ 5.2 Will the organization whose financial statement is attached act as guarantor of the contract for construction?

YES

§ 6 SIGNATURE

§ 6.1 Dated at this 20th day of July 2023

Name of Organization: Lite Construction, Inc.

By:

Title: President

LITE CONSTRUCTION, INC. CORPORATE SEAL ILLINOIS

§ 6.2

M. S. being duly sworn deposes and says that the information provided herein is true and sufficiently complete so as not to be misleading.

Subscribed and sworn before me this 20th day of July 2023

Notary Public:

My Commission Expires: 7/11/26

"OFFICIAL SEAL" DAWN L KANTORSKI NOTARY PUBLIC, STATE OF ILLINOIS My Commission Expires 07/11/2026

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ILLINOIS DEPARTMENT OF

Human Rights

JB Pritzker, Governor
James L. Bennett, Director

IDHR #: 95652-00
Date Eligible: 02/04/2020
Expires on: 02/04/2025

TIM CAMPBELL
VICE PRESIDENT
LITE CONSTRUCTION INC
711 S. LAKE ST.
MONTGOMERY, IL 60538

CONFIRMATION OF EXISTING/RENEWAL REGISTRATION

The Illinois Department of Human Rights, Public Contracts Unit, acknowledges receipt of an Employer Report form (PC-1) filed by your organization.

Review of our records indicates that your organization previously registered with the Department of Human Rights and has been assigned the IDHR Number appearing above. This registration remains in effect until the expiration date appearing above. It is not necessary to submit a new form each time you bid on a state contract.

DO NOT LOSE THIS NOTICE. KEEP IT WITH OTHER IMPORTANT ORGANIZATIONAL DOCUMENTS. Also, please keep the following in mind:

1. The IDHR Bidder Eligibility Number is valid for all bids submitted to any agency of the State of Illinois or other contracting agency that has adopted our registration requirement.
2. An eligible bidder's registration remains in effect until the expiration date unless it is revoked by the Department upon finding that the eligible bidder has committed a civil rights violation.
3. An eligible bidder may relinquish its eligibility by notifying the Department in writing at the above address.
4. The Department must be notified in writing of any change to the eligible bidder's name, address, telephone number, or form of organization. Such changes may render the bidder's registration invalid and may require the filing of a new Employer Report Form with the Department. The Number is not transferable and becomes invalid upon dissolution of the business.

Should you have any questions concerning this notice, please contact the Public Contracts Unit at the above address or telephone at 312-814-2431.

100 West Randolph Street, Suite 10-100, Chicago, IL 60601, (312) 814-6200, TTY (866) 740-3953, Housing Line (800) 662-3942
535 West Jefferson Street, 1st Floor, Springfield, IL 62702, (217) 785-5100
2309 West Main Street, Marion, IL 62959 (618) 993-7463
www.state.il.us/dhr

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Job Reference List

Name	DeKalb HVAC Renovations
Year Construction	11/2021-8/2022
Cost	2,894,736.00
Owner	DeKalb CUSD 428
Location	901 S. 4th St. DeKalb IL 60115
Owner's Contact	Tammy Carson - 815-754-2350
Architect	Richard L Johnson-Scott -815-398-1231

Name	Northwest Elementary School
Year Construction	1/2022 - 8/2022
Cost	2,050,504.00
Owner	LaSalle Board of Education District #122
Location	1735 Malcom Ave. LaSalle IL 61301
Owner's Contact	Brian DeBernardi - 815-223-0786
Architect	BCA Architects - Matt Lamps 815-434-0108

Name	Dimmick School Summer 2021 Reno.
Year Construction	3/2021-8/2021
Cost	$1,094,569.00
Owner	Dimmick CCSD #175
Location	297 N 33rd Rd. LaSalle IL 61301
Owner's Contact	Ryan Linning - 815-223-2933
Architect	Larson & Darby -Andrew M. 815-484-0739

Name	Kaneland Summer Work 2021
Year Construction	3/2021-8/2021
Cost	$536,700.00
Owner	Kaneland CUSD #302
Location	47W326 Keslinger Rd. Maple Park Il 60151
Owner's Contact	Mark Payton 630-365-5111
Architect	Wold Arch.-Tim Woolever 847-241-6100

Name	Coal City 2021 Mechanical Improvements
Year Construction	3/2021-8/2021
Cost	$960,437.00
Owner	Coal City CUSD #1
Location	550 Carbon Hill Rd. Coal City IL 60416
Owner's Contact	Denny Wickiser - 815-634-2287
Architect	Cordogan Clark-Alex L.-630-896-4678

Name	St Charles Compass Academy Improvements
Year Construction	4/2021-8/2021
Cost	$322,397.00
Owner	St Charles CUSD 303
Location	201 S. 7th St St Charles Il 60174
Owner's Contact	John Baird - 331-228-5197
Architect	Wold Arch. Jessalyn K. 847-241-6100

Name	East Aurora HS Sprinkler Phase 2
Year Construction	2/2021-8/2021
Cost	$819,713.00
Owner	East Aurora CUSD #131
Location	500 Tomcat Ln. Aurora IL 60505
Owner's Contact	Jessie Vargas 630-299-5550
Architect	Cordogan Clark-Mark S.630-896-4678

Name	West Aurora Servery Renovation
Year Construction	5/2021-8/2021

Cost	$454,759.00
Owner	West Aurora School District 129
Location	1870 W Galena Blvd. Aurora IL 50605
Owner's Contact	Pat Dacy 630-301-5022
Architect	StudioGC-Cory Boaz-312-253-3400

Name	West Aurora Geothermal
Year Construction	1/2021-8/2021
Cost	$2,798,000.00
Owner	West Aurora School District 129
Location	1870 W Galena Blvd. Aurora IL 50605
Owner's Contact	Pat Dacy 630-301-5022
Architect	StudioGC-Cory Boaz-312-253-3400

Name	Waubonsee CC Von Ohlen Hall
Year Construction	5/2020-8/2020
Cost	$3,075,888.00
Owner	Waubonsee Community College
Location	Rt.47 & Waubonsee Dr Sugar Grove IL60554
Owner's Contact	Pete Adams 630-466-2912
Architect	Cordogan Clark Cayce H. 630-896-4678

Name	Lisle Park District - Storage Building
Year Construction	9/2019-7/2020
Cost	$1,386,392.00
Owner	Lisle Park District
Location	1925 Ohio St Lisle IL 60532
Owner's Contact	Aaron Cerutti - 630-353-4381
Architect	Williams Arch. Andreas S. 630-221-1212

Name	East Aurora Sprinkler Phase 1
Year Construction	4/2020-8/2020
Cost	$1,128,661.00
Owner	East Aurora CUSD 131
Location	500 Tomcat LN Aurora IL 60505
Owner's Contact	Jessie Vargas 630-299-5550
Architect	Cordogan Clark - Mark S. 630-896-4678

Name	Naperville CHS Varsity Softball Field Renovations
Year Construction	3/2019-3/2020
Cost	1,050,700.00
Owner	Naperville CUSD 203
Location	440 Aurora Ave Naperville IL 60540
Owner's Contact	Pat Dollan 630-420-6300
Architect	Healy Bender - Lucas V. 630-904-4300

Name	Groot Industries
Year Construction	7/2019-12/2019
Cost	688,811.00
Owner	Groot Industries
Location	1565 Aurora Ave Ln. Aurora IL 60505
Owner's Contact	Kiel Pennington - 815-790-3205
Architect	Temple Architects - 630-443-0917

Name	West Aurora Early Childhood Renovation
Year Construction	1/2018-10/2018
Cost	4,337,000.00
Owner	West Aurora School District 129
Location	1870 W Galena Blvd. Aurora IL 50605
Owner's Contact	Pat Dacy 630-301-5022
Architect	Cordogan Clark Architect - Tim Weber 630-896-4678

Tim Campbell
330 Old Mill Rd.
Plano Il 60545

Birth date: 7/5/63

Education:
1981-1985 Oliver Nazarene University BA
1978-1981 Plano High School

Employment:
1978-Present Lite Construction, Inc.
Vice President – Project Manager
Ensure project is on Schedule & within budget

Work Experience and Accomplishments:

9/2019-Current Lisle Park District
Cost $ 1,387,800.00
Addition / Renovations
Type of Construction: Pre-Engineered Building

3/2019-3/2020 Naperville CHS Varsity Softball Field
Cost $ 1,126,700.00
Addition / Renovation
Type of Construction Masonry, Bar Joist

7/2019-12/2019 Groot Industries
Cost $ 688,811.00
Renovations / Addition
Type of Construction: Pre-Engineered Building

4/2019-8/2019 Rotolo Middle School
Cost $ 488,919.00
Renovations
Type of Construction: Masonry, Bar Joist

3/2019-8/2019 St Charles Schools
Cost $ 1,201,900.00
Renovations
Type of Construction: Masonry, Bar Joist

3/2019-8/2019 Mount St Mary's
Cost $ 402,952.00
Addition
Type of Construction: Wood Framed

1/2017-12/2019 Fox Metro Water Reclamation
Cost $ 3,000,000.00
Additions / Renovations
Type of Construction: Masonry, Bar Joist

1/2018-10/2018 West Aurora Early Childhood
Cost $ 4,337,000.00
Additions/Renovations
Type of Construction: Masonry, Bar Joist

10/2016-9/2018 East Aurora HS & Stadium
Cost $ 11,020,298.00
Additions / Renovations
Type of Construction: Masonry, Bar Joist

1/2016-12/2016 West Aurora Schools
Cost $7,875,862.00
Additions / Geo-Installations
Type of Construction: Masonry, Bar Joist

8/2013-11/2014 Sandwich Library
Cost $ 3,361,890.00
New Building
Type of Construction: Wood Framed

3/2009-6/2010 St Mary's Parish
Cost $ 2,021,240.00
Additions / Renovations
Type of Construction: Pre-Engineered Building

2015-2015 West Chicago HS
Cost $ 1,912,900.0
Additions / Renovations
Type of Construction: Masonry, Bar Joist

2013-2015 Yorkville HS
Cost $ 9,700,800.00
Additions / Renovations
Type of Construction: Masonry, Bar Joist

2012-2013 Oswego HS
Cost $ 7,530,853.00
Additions / Renovations
Type of Construction: Masonry, Bar Joist

2011-2011 Lockport HS
Cost $ 2,362,627.00
Additions / Renovations
Type of Construction: Masonry,

Jeff Futrell
1074 Linda Lane
Sandwich Il 60548

Birth date: 5/23/68

Education:
1985-1989 Fox Valley Carpentry Apprenticeship Program
1981-1985 Somonauk Baptist School

Employment:
1991-Present Lite Construction, Inc.
Journeyman Carpenter – Superintendent – Union Member Local #916
Supervise work crews; coordinate subcontractors; blueprint reading;
Coordinate ordering of materials; coordinate work crews; weekly progress
Meeting to ensure project is on schedule and within budget

Work Experience and Accomplishments

7/2019-12/2019 Groot Industries
Cost $ 688,811.00
Renovations
Type of Construction: Pre- Engineered Building

4/2019-8/2019 Rotolo Middle School
Cost $ 488,919.00
Renovations
Type of Construction: Masonry, Bar Joist

3/2019-8/2019 Mount St. Mary's
Cost $ 402,952.00
Addition
Type of Construction: Wood Framed

1/2017-12/2019 Fox Metro Water Reclamation
Cost $ 2,500,000.00
Renovations / Additions
Type of Construction: Masonry, Bar Joist

8/2013-11/2014 Sandwich Library
Cost $ 3,361,890.00
New Building
Type of Construction: Wood Framed

3/2009-6/2010 St Mary's Parish
Cost $ 2,021,240.00
Additions / Renovations
Type of Construction: Pre-Engineered Building

Jason Heeg
2266 Garden Rd
Aurora Il 60506

Birth date: 10/31/70

Employment:
1989-Present Lite Construction, Inc.
Journeyman Carpenter – Superintendent – Union Member Local #916
Supervise work crews; coordinate subcontractors; blueprint reading;
Coordinate ordering of materials; coordinate work crews; weekly progress
Meeting to ensure project is on schedule and within budget

Work Experience and Accomplishments:

11/2018-5/2019 Peck Farm – Restroom
Cost $352,879.00
Addition
Type of Construction: Wood Framed

4/2019-9/2019 Thompson Jr. High School
Cost $361,840.00
Renovations
Type of Construction: Masonry, Bar Joist

9/2018-11/2018 VNA Healthcare Phase 2
Cost $377,637.00
Renovations
Type of Construction: Wood Framed

10/2016-8/2017 East Aurora HS & Stadium
Cost $8,532,417.00
Additions / Renovations
Type of Construction: Masonry, Bar Joist

1/2016-10/2016 Fearn Elementary
Cost $1,627,000.00
Additions / Geo-Installations
Type of Construction: Masonry, Bar Joist

9/2015-8/2016 Norridge Park District
Cost $2,065,894.00
Renovations
Type of Construction: Wood Framed

WORKERS COMPENSATION EXPERIENCE RATING

Risk Name: LITE CONSTRUCTION INC — Risk ID: 127167435

Rating Effective Date: 07/01/2022 — Production Date: 02/07/2022 — State: ILLINOIS

State	Wt	Exp Excess Losses	Expected Losses	Exp Prim Losses	Act Exc Losses	Ballast	Act Inc Losses	Act Prim Losses
IL	.09	43,594	54,703	11,109	0	43,750	0	0

(A) Wt	(B)	(C) Exp Excess Losses (D - E)	(D) Expected Losses	(E) Exp Prim Losses	(F) Act Exc Losses (H - I)	(G) Ballast	(H) Act Inc Losses	(I) Act Prim Losses
.09		43,594	54,703	11,109	0	43,750	0	0

	Primary Losses	Stabilizing Value	Ratable Excess	Totals
Actual	(I) 0	C * (1 - A) + G 83,421	(A) * (F) 0	(J) 83,421
Expected	(E) 11,109	C * (1 - A) + G 83,421	(A) * (C) 3,923	(K) 98,453

	ARAP	FLARAP	SARAP	MAARAP	Exp Mod
Factors	1.00				(J) / (K) .85

WORKERS COMPENSATION EXPERIENCE RATING

Risk Name: LITE CONSTRUCTION INC — Risk ID: 127167435

Rating Effective Date: 07/01/2021 — Production Date: 02/04/2021 — State: ILLINOIS

State	Wt	Exp Excess Losses	Expected Losses	Exp Prim Losses	Act Exc Losses	Ballast	Act Inc Losses	Act Prim Losses
IL	.10	78,839	100,516	21,677	0	51,450	0	0

(A) Wt	(B)	(C) Exp Excess Losses (D - E)	(D) Expected Losses	(E) Exp Prim Losses	(F) Act Exc Losses (H - I)	(G) Ballast	(H) Act Inc Losses	(I) Act Prim Losses
.10		78,839	100,516	21,677	0	51,450	0	0

	Primary Losses	Stabilizing Value	Ratable Excess	Totals
Actual	(I) 0	C * (1 - A) + G 122,405	(A) * (F) 0	(J) 122,405
Expected	(E) 21,677	C * (1 - A) + G 122,405	(A) * (C) 7,884	(K) 151,966

	ARAP	FLARAP	SARAP	MAARAP	Exp Mod
Factors	1.00				(J) / (K) .81

WORKERS COMPENSATION EXPERIENCE RATING

Risk Name: LITE CONSTRUCTION INC — Risk ID: 127167435

Rating Effective Date: 07/01/2020 — Production Date: 12/04/2020 — State: ILLINOIS

State	Wt	Exp Excess Losses	Expected Losses	Exp Prim Losses	Act Exc Losses	Ballast	Act Inc Losses	Act Prim Losses
IL	.09	49,905	63,580	13,675	0	42,250	0	0

(A) Wt	(B)	(C) Exp Excess Losses (D - E)	(D) Expected Losses	(E) Exp Prim Losses	(F) Act Exc Losses (H - I)	(G) Ballast	(H) Act Inc Losses	(I) Act Prim Losses
.09		49,905	63,580	13,675	0	42,250	0	0

	Primary Losses	Stabilizing Value	Ratable Excess	Totals
Actual	(I) 0	C * (1 - A) + G 87,664	(A) * (F) 0	(J) 87,664
Expected	(E) 13,675	C * (1 - A) + G 87,664	(A) * (C) 4,491	(K) 105,830

	ARAP	FLARAP	SARAP	MAARAP	Exp Mod
Factors	1.00				(J) / (K) .83

WORKERS COMPENSATION EXPERIENCE RATING

Risk Name: LITE CONSTRUCTION INC — Risk ID: 127167435

Rating Effective Date: 07/01/2020 — Production Date: 02/12/2020 — State: ILLINOIS

State:	Wt	Exp Excess Losses	Expected Losses	Exp Prim Losses	Act Exc Losses	Ballast	Act Inc Losses	Act Prim Losses
IL	.10	81,060	103,232	22,172	0	50,700	0	0

(A)	(B)	(C) Exp Excess Losses (D - E)	(D) Expected Losses	(E) Exp Prim Losses	(F) Act Exc Losses (H - I)	(G) Ballast	(H) Act Inc Losses	(I) Act Prim Losses
.10		81,060	103,232	22,172	0	50,700	0	0

	Primary Losses	Stabilizing Value	Ratable Excess	Totals
Actual	(I) 0	C * (1 - A) + G 123,654	(A) * (F) 0	(J) 123,654
Expected	(E) 22,172	C * (1 - A) + G 123,654	(A) * (C) 8,106	(K) 153,932

	ARAP	FLARAP	SARAP	MAARAP	Exp Mod
Factors	1.00				(J) / (K) .80

Vendor Reference

COMPANY & ADDRESS	Phone & Fax	CONTACTS	Product Line	Line of Credit
Hall and One Services Inc P O Box 703 Hinckley Il 60520	P-630-277-0675	Lenny	Plumbing	Open
Malcor Roofing 1850 Dean St. St Charles Il 60174	P-630/896/6479 F-630/896/6597	Scott	Roofing	Open
Lassiwell Masonry Inc 430 Prairie View Ln Hinckley Il 60520	P-815-286-8015	Kevin	Masonry	Open
Menards 1600 Marketview Dr Yorkville Il 60560	P-630/201/7879	Mail	Everything	Open
Volt Electric Inc 9 S 500 Bushenll Rd Big Rock Il 60511	P-630-552-1600	Ken	Electric	Open
Built-Rite Construction 1001 Aucuit Rd. Montgomery Il 60538	P-630-299-3374	Ralph	Casework	Open
The Flooring Guys of Illinois 700 B South Lake St.Montgomery Il 60538	P-630-844-8510	Brian	Flooring	Open

LITE CONSTRUCTION, INC.

FINANCIAL STATEMENTS
with
INDEPENDENT ACCOUNTANTS' REVIEW REPORT
for the year ended September 30, 2022

Weber & Associates CPAs, LLC
Certified Public Accountants

LITE CONSTRUCTION, INC.

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Weber & Associates CPAs, LLC
Certified Public Accountants
Thomas A. Weber
Michael Coakley
Gabriela Fedmasu

Suite 1B, 314 N. Lake St. Aurora, IL 60506
630 897-4500
Fax: 630-897-4951

Independent Accountants' Review Report

To the Management
Lite Construction, Inc.
Montgomery, Illinois

We have reviewed the accompanying financial statements of Lite Construction, Inc. (a corporation) which comprise the statement of financial position as of September 30, 2022, and the related statement of operations and retained earnings and cash flows for the year then ended, and the related notes to the financial statements. A review includes primarily applying analytical procedures to management's financial data and making inquiries of Company management. A review is substantially less in scope than an audit, the objective of which is the expression of an opinion regarding the financial statements as a whole. Accordingly, we do not express such an opinion.

Management's Responsibility for the Financial Statements
Management is responsible for the preparation and fair presentation of these financial statements in accordance with the *Financial Reporting Framework for Small- and Medium-Sized Entities* issued by the American Institute of Certified Public Accountants; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement whether due to fraud or error.

Accountant's Responsibility
Our responsibility is to conduct the review engagement in accordance with Statements on Standards for Accounting and Review Services promulgated by the Accounting and Review Services Committee of the AICPA. Those standards require us to perform procedures to obtain limited assurance as a basis for reporting whether we are aware of any material modifications that should be made to the financial statements for them to be in accordance with the *Financial Reporting Framework for Small- and Medium-Sized Entities* issued by the AICPA. We believe that the results of our procedures provide a reasonable basis for our conclusion.

Accountant's Conclusion
Based on our review, we are not aware of any material modifications that should be made to the accompanying financial statements in order for them to be in accordance with the *Financial Reporting Framework for Small- and Medium-Sized Entities.*

Basis of Accounting
We draw attention to Note 1 of the financial statements, which describes the basis of accounting. The financial statements are prepared in accordance with the *Financial Reporting Framework for Small- and Medium-Sized Entities*, which is a basis of accounting other than accounting principles generally accepted in the United States of America. Our conclusion is not modified with respect to this matter.

Supplementary Information
The supplementary information included in the accompanying schedules on pages 13 through 16 is presented for purposes of additional analysis and is not a required part of the basic financial statements. Such information is the responsibility of management and was derived from, and relates directly to, the underlying accounting and other records used to prepare the financial statements. The supplementary information has been subjected to the review procedures applied in our review of the basic financial statements. We are not aware of any material modifications that should be made to the supplementary information. We have not audited the supplementary information and do not express an opinion on such information.

Weber & Associates

Aurora, Illinois
January 13, 2023

LITE CONSTRUCTION, INC.
STATEMENT OF FINANCIAL POSITION
(FRF for SMEs Accounting Framework Basis)
as of September 30, 2022

Assets	
Current assets:	
Cash and cash equivalents	$ 2,350,040
Certificates of deposit	777,531
Accounts receivable	2,610,171
Retention receivable	2,138,439
Credits due from vendors	4,520
Due from shareholder	114,660
Costs and estimated earnings in excess of billings on uncompleted contracts	585,447
Income taxes refundable	20,888
Total current assets	8,601,696
Fixed assets:	
Land	268,314
Leasehold improvements	88,600
Equipment and vehicles	1,439,894
Total fixed assets	1,796,808
Less accumulated depreciation	(1,416,339)
Net fixed assets	380,469
Total assets	$ 8,982,165

LITE CONSTRUCTION, INC.
STATEMENT OF FINANCIAL POSITION
(FRF for SMEs Accounting Framework Basis)
as of September 30, 2022

Liabilities and Stockholders' Equity	
Liabilities:	
Current liabilities:	
Accounts payable	$ 6,663,163
Accrued liabilities	28,537
Billings in excess of costs and estimated earnings on uncompleted contracts	611,138
Current portion of long-term debt	12,742
Total current liabilities	7,315,580
Long-term liabilities:	
Noncurrent portion of long-term debt	53,938
Total liabilities	7,369,518
Stockholders' equity:	
Capital stock (70,000 shares authorized, issued and outstanding)	70,000
Retained earnings	1,542,647
Total stockholders' equity	1,612,647
Total liabilities and stockholders' equity	$ 8,982,165

LITE CONSTRUCTION, INC.
STATEMENT OF OPERATIONS AND RETAINED EARNINGS
(FRF for SMEs Accounting Framework Basis)
for the year ended September 30, 2022

Contract revenues earned	$ 24,984,760
Contract costs	23,944,000
Gross profit	1,040,760
General and administrative expenses	987,943
Net operating income	52,817
Other income:	
Interest income	1,495
Miscellaneous income	3,457
Total other income	4,952
Income before income taxes	57,769
Provision for income taxes	16,479
Net income	41,290
Retained earnings- beginning of year	1,501,357
Retained earnings- end of year	$ 1,542,647

LITE CONSTRUCTION, INC.
STATEMENT OF CASH FLOWS
(FRF for SMEs Accounting Framework Basis)
for the year ended September 30, 2022

Cash flows from operating activities:	
Net income	$ 41,290
Adjustments to reconcile net income to net cash from operating activities:	
Depreciation	338,627
Changes in operating assets and liabilities:	
Accounts receivable	(6,210)
Retention receivable	(1,697,514)
Credits due from vendors	4,631
Costs and estimated earnings in excess of billings on uncompleted contracts	(452,737)
Billings in excess of costs and estimated earnings on uncompleted contracts	318,229
Income taxes refundable	16,479
Accounts payable	3,560,120
Accrued expenses	19,180
Net cash provided by operating activities	2,142,095
Cash flows from investing activities:	
Capital expenditures	(645,385)
Due from shareholder	(10,214)
Certificates of deposit	(732)
Net cash used in investing activities	(656,331)
Cash flows from financing activities:	
Repayment of long-term debt	(8,239)
Net cash used in financing activities	(8,239)
Net increase in cash and cash equivalents	1,477,525
Cash and cash equivalents, beginning of year	872,515
Cash and cash equivalents, end of year	$ 2,350,040

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting
The accompanying financial statements have been prepared in accordance with the *Financial Reporting Framework for Small- and Medium-Sized Entities* (FRF for SMEs) issued by the American Institute of Certified Public Accountants, which is a special purpose framework and not U.S. generally accepted accounting principles (U.S. GAAP). The accounting principles that compose the framework are appropriate for the preparation and presentation of small- and medium-sized entity financial statements, based on the needs of the financial statements users and cost and benefit consideration. This special purpose framework, unlike U.S. GAAP, recognizes revenue from the performance of services under long term contracts using the percentage of completion method.

Nature of Operations
Lite Construction, Inc. (the Company), an Illinois Corporation, is engaged in the business of performing general construction contract work in the Chicago, Illinois Metropolitan area. A substantial portion of the revenue and contracts receivable reflected in the financial statements result from contracts in these market sectors. Revenues from construction contracts represent a substantial portion of the Company's total recognized revenue.

Use of Estimates
The preparation of financial statements in conformity with the *Financial Reporting Framework for Small- and Medium-Sized Entities* requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosures of contingent assets and liabilities at the date of the financial statements and reported amounts of revenues and expenses during the reporting period. Actual results could differ from these estimates.

Revenue and Cost Recognition
Revenues from contracts are recognized for financial reporting purposes on the basis of the Company's estimate of the percentage of completion of individual contracts. That portion of the total contract price is accrued which is allocable to the contract costs incurred to date when compared to the estimated total contract costs to be incurred. At the time a loss on a contract becomes known, the entire amount of the estimated loss is recognized.

Contract costs include subcontractor, direct material and labor costs and those indirect costs related to contract performance, such as indirect labor, supplies, tools, repairs, and depreciation costs. General and administrative costs are charged to expense as incurred. Changes in job performance, job conditions, and estimated profitability may result in revisions to costs and income and are recognized in the period in which revisions are determined.

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

Revenue and Cost Recognition (continued)
The asset, "Costs and estimated earnings in excess of billings on uncompleted contracts," represents revenues recognized in excess of amounts billed. The liability, " Billings in excess of costs and estimated earnings on uncompleted contracts," represents billings in excess of revenues recognized.

Accounts receivable includes billings under contracts less billings collected on these contracts.

Cash and Cash Equivalents
Cash is defined as currency on hand, in demand deposits, and short-term highly liquid investments readily convertible to cash with a maturity of less than three months when acquired.

Accounts Receivable
Accounts receivable are presented at face value, net of the allowance for doubtful accounts. The allowance for doubtful accounts is established through provisions charged against income and is maintained at a level believed adequate by management to absorb estimated bad debts based on current economic conditions and consideration of each receivable balance. As of September 30, 2022, management has evaluated each receivable and considers all amounts to be fully collectible.

Fixed Assets
Fixed assets are recorded at cost. Depreciation is computed using straight-line and accelerated methods over the estimated useful lives of the assets. Depreciation expense for the year ended September 30, 2022 was $338,627.

Advertising Expense
The Company expenses advertising costs as incurred. Advertising expense for the year ended September 30, 2022 was $595.

2. COSTS AND ESTIMATED EARNINGS ON UNCOMPLETED CONTRACTS

Work in process at September 30, 2022 consists of the following:

Costs incurred on uncompleted contracts	$ 24,306,204
Estimated earnings	1,033,315
	25,339,519
Less billings to date	(25,365,210)
	$ (25,691)

2. COSTS AND ESTIMATED EARNINGS ON UNCOMPLETED CONTRACTS (continued)

Included in the accompanying statement of financial position under the following captions:

Costs and estimated earnings in excess of billings on uncompleted contracts	$ 585,447
Billings in excess of costs and estimated earnings on uncompleted contracts	(611,138)
	$ (25,691)

3. CONTRACT INCOME

Contract income at September 30, 2022 consists of the following:

Open contracts	$ 25,339,519
Closed contracts	7,660,906
Less revenues reported in previous years	(8,015,665)
	$ 24,984,760

4. CONCENTRATIONS OF CREDIT RISK

The Company maintains cash and certificate of deposit balances at various financial institutions located in the communities surrounding Montgomery, Illinois. The Company's uninsured cash balance for the year ended September 30, 2022 was $3,185,710.

Concentrations of credit risk with respect to construction contract receivables are limited due to the Company's customer base. Most of the Company's business activity is with customers located within the State of Illinois. The Company requires no collateral.

At September 30, 2022, receivables from three customers, each exceeding 10% of total receivables, accounted for 63% of total receivables. Sales during the year to three customers exceeded 10% of total sales and accounted for 50% of total contract revenue. The Company considers accounts receivable to be fully collectible at September 30, 2022.

5. LINES OF CREDIT

The Company has a line of credit with First National Bank - Yorkville, Illinois which provides for borrowings up to $200,000 with interest at the prime rate plus 0.50% with a floor of 5.00% (6.25% at September 30, 2022), and expires on October 13, 2022. The line of credit is secured by two certificates of deposit held at the bank.

5. LINES OF CREDIT (continued)

The Company has a line of credit with Old Second National Bank - North Aurora, Illinois which provides for borrowings up to $400,000 with interest at the prime rate (6.25% at September 30, 2022), and expires on April 28, 2024. The line of credit is secured by three certificates of deposit held at the bank.

There were no borrowings under the lines of credit as of September 30, 2022.

6. LONG-TERM DEBT

Long-term debt at September 30, 2022 consists of the following:

Vehicle loan with monthly installments of $494 including interest at 6.90% through December 2027	$ 25,987
Vehicle loan with monthly installments of $821 including interest at 3.74% through March 2027	40,693
	66,680
Less current maturities	12,742
	$ 53,938

Scheduled principal repayments for the years ended September 30, are as follows:

2023	$ 12,742
2024	13,368
2025	14,028
2026	14,724
2027	10,406
Thereafter	1,412
	$ 66,680

7. COMPENSATED ABSENCES

Employees of the Company are entitled to paid vacation depending on job classification, length of service, and other factors. It is impracticable to estimate the amount of compensation for future absences, and accordingly, no liability has been recorded in the accompanying financial statements. The Company's policy is to recognize the costs of compensated absences when actually paid to employees.

8. EMPLOYEE BENEFIT PLAN

The Company's employees participate in a Simple 401(k) plan. The employer matches 3% of eligible employee's compensation. The amount contributed by the Company and charged to expense for the year ended September 30, 2022 was $33,585.

9. INCOME TAXES

Income taxes are provided for the tax effects of transactions reported in the financial statements and consist of taxes currently due. The Company has not reported deferred taxes for temporary timing differences and carryforwards and believes there are no material differences between the amounts reported on the financial statements and current income tax laws.

The provision for income taxes at September 30, 2022 consists of the following:

Current federal income tax	$	10,887
Current state income tax		5,592
	$	16,479

The Company files income tax returns in the U.S. federal jurisdiction and the state of Illinois. The Company is no longer subject to U.S. federal or state income tax examinations by tax authorities for tax years before 2019.

The Company has adopted guidance issued by the Financial Accounting Standards Board (FASB) relating to uncertain tax positions. The Company's policy is to classify income tax related interest and penalties in interest expense and other expenses, respectively. The Company has analyzed tax positions taken and believes that income tax filing positions would be sustained upon examination and does not anticipate any adjustments that would have a material adverse affect on the Company's financial condition, results of operations or cash flows. Accordingly, there were no interest or penalties recognized for uncertain tax positions during the year ended September 30, 2022 and there were no accruals for interest and penalties at September 30, 2022.

10. COLLECTIVE BARGAINING AGREEMENTS AND UNION PENSION PLAN

Substantially the entire labor force is subject to collective bargaining agreements which are renewed periodically. In connection with its collective bargaining agreements with various unions, the Company participates with other companies in the unions' multiemployer pension plans the most significant of which are the Carpenters Benefit Fund, Chicago Carpenters Trust Funds and the Fox Valley Laborers Funds. These plans cover all of the Company's employees who are members of such unions. Total contributions to the plans were $611,973 for the year ended September 30, 2022.

LITE CONSTRUCTION, INC.
NOTES TO FINANCIAL STATEMENTS
September 30, 2022

11. RELATED PARTY TRANSACTIONS

Leases

The Company leases certain property from James and Linda Campbell under three operating leases each expiring on December 31, 2022 and requiring monthly rental amounts of $1,000. James Campbell is the principal shareholder of Lite Construction, Inc.

Related party rent expense for the year ended September 30, 2022 consists of the following:

Land and building for storage	$	12,000
Land for storage		12,000
Office		12,000
	$	36,000

Due from shareholder

Periodically the shareholders have borrowed money from the Company. At September 30, 2022 the shareholders had $114,660 due to the Company without stated repayment terms or interest rate.

12. SUPPLEMENTAL DISCLOSURES OF CASH FLOW INFORMATION

Cash paid during the year ended September 30, 2022 for:

Interest	$	5,228

13. SUBSEQUENT EVENTS

Management has evaluated subsequent events through January 13, 2023 the date the financial statements were available to be issued.

SUPPLEMENTARY INFORMATION

LITE CONSTRUCTION, INC.
SCHEDULE OF CONTRACT COSTS
for the year ended September 30, 2022

Contract costs:	
Materials and supplies	$ 2,580,453
Subcontractors	18,981,321
Direct labor	807,906
Payroll taxes and union benefits	682,857
Rent	36,000
Rental equipment	1,845
Repairs and maintenance	4,150
Telephone	25,801
Truck expenses	179,941
Other indirect cost	643,726
	$ 23,944,000

LITE CONSTRUCTION, INC.
SCHEDULE OF GENERAL AND ADMINISTRATIVE EXPENSES
for the year ended September 30, 2022

General and administrative expense:	
Advertising	$ 595
Contributions	8,404
Depreciation	338,627
Miscellaneous	5,279
Office expense	34,823
Payroll taxes	33,748
Employee benefit plan	33,585
Professional fees	43,402
Insurance	73,072
Interest	5,228
Travel and entertainment	40,296
Utilities	5,003
Wages - office	147,081
Wages - officers	218,800
	$ 987,943

LITE CONSTRUCTION, INC.
Job Cost Summary
as of and for the year ended September 30, 2022

Project	Adjusted Contract Amount (1)	Estimated Cost (2)	Estimated Gross Profit on Completion $ (3)	Estimated Gross Profit on Completion %	Total Costs Incurred to Date (4)	Estimated Percentage Completion (5)	Gross Profit (Loss) on Contract to Date (6)	Total Revenues Earned to Date (7)	Billings to Date (8)	Billings (Over) Under Costs and Profit Recognized (9)	Billings (Over) Under Costs and Profit Recognized (10)	Estimated Cost to Complete (11)	Contract Balance (12)
Open:													
Batavia HS Stadium	$ 2,167,000	$ 2,155,000	$ 12,000	0.6%	$ 2,031,236	97.1%	$ 11,645	$ 2,103,344	$ 2,054,507	$ -	$ 48,837	$ 83,264	$ 112,493
Bowes Creek CC Park	244,605	234,369	14,236	5.7%	233,228	95.2%	13,359	236,787	248,603	(11,818)	-	11,141	-
DeKalb Ext Clyrd Renov	151,614	133,200	18,414	10.8%	133,561	99%	16,191	149,532	141,579	-	7,573	1,839	10,035
DeKalb HVAC	2,861,856	2,698,000	163,856	5.7%	2,668,464	98.9%	162,062	2,830,526	2,812,740	-	17,786	29,536	49,116
DeKalb Renov Ed Center	1,614,400	1,524,904	89,496	5.5%	214,438	14.1%	12,565	227,044	267,654	(40,610)	-	1,310,446	1,346,746
EASD Donnice	260,890	245,263	15,327	6.0%	8,710	3.5%	511	8,261	18,000	(9,739)	-	238,653	241,890
EASD Sprinkler Phase 3	980,165	947,068	33,097	3.4%	805,464	85.0%	28,148	833,612	980,165	(146,553)	-	141,604	-
EASD 2022 Window Repl	1,259,156	1,145,014	114,132	9.1%	978,698	85.5%	97,553	1,076,251	1,223,109	(146,858)	-	166,326	36,047
Illinois Veterans Home	234,200	198,230	35,930	15.4%	35,062	17.7%	6,338	41,400	27,500	-	13,900	163,188	206,700
Kaneland HS Theater	1,227,000	1,096,313	130,687	10.7%	12,093	1.1%	1,442	13,535	43,400	(29,865)	-	1,064,220	1,183,600
2022 Mechanical System Impr	3,855,678	3,315,211	490,465	8.4%	3,166,116	97.2%	476,707	3,642,823	3,526,837	-	115,986	149,093	278,839
Museum Interior Impr	988,132	940,231	47,901	4.8%	936,621	99.6%	47,737	984,358	988,132	(3,774)	-	3,610	-
Mutual Ground	380,374	378,348	2,026	0.5%	349,102	92.2%	1,851	350,953	380,374	(29,421)	-	29,266	-
Northwest Elementary	2,030,504	1,914,617	115,887	6.6%	1,781,778	93.6%	127,169	1,918,947	1,999,013	(80,066)	-	132,839	51,491
Prairie Trail Public Library	631,102	589,900	41,602	9.5%	585,124	99.3%	61,145	646,269	643,111	-	3,158	4,378	7,991
Spring Valley JHC	181,186	165,656	15,530	8.6%	164,525	99.3%	15,414	179,939	181,186	(1,247)	-	1,131	-
St Charles Campus Acd.	349,755	309,253	40,503	11.6%	308,837	99.9%	40,449	349,286	349,756	(470)	-	416	-
St Mary - Plano	2,321,879	2,549,749	(227,870)	-9.8%	2,541,938	99.7%	(227,175)	2,314,763	2,321,317	(6,754)	-	7,811	362
Sugar Grove Public Library	143,000	138,870	6,130	4.3%	138,633	99.8%	6,120	144,753	145,000	(245)	-	233	-
Township of Lyons Admin	57,777	45,189	12,588	21.8%	38,284	84.7%	10,663	48,949	57,777	(8,828)	-	9,005	-
VNA - Joliet	-	-	-	-	2,307	0.1%	230	2,537	-	-	2,537	2,038,347	2,743,700
Yorkville City Hall	5,189,000	5,765,141	123,859	2.1%	4,224,058	73.3%	90,750	4,314,808	3,939,558	-	375,250	1,341,083	1,949,402
WASD Window & Door	1,187,009	1,145,515	41,485	3.5%	887,605	77.5%	32,145	919,750	1,014,630	(94,880)	-	227,010	172,379
	33,255,992	31,677,445	1,578,547	4.7%	24,306,304	76.7%	1,033,315	25,339,519	25,365,210	$ (611,138)	$ 583,647	$ 7,371,241	$ 7,190,783
Closed:													
Coal City Mech	$ 960,437	$ 909,707	$ 50,730	5.3%	$ 909,707	100.0%	$ 50,730	$ 960,437	$ 960,437				
Dimmick 2021	1,097,309	1,094,008	3,301	0.3%	1,094,008	100.0%	3,301	1,097,309	1,097,309				
EASD Sprinkler Ph 2	719,713	653,173	66,540	9.2%	653,173	100.0%	66,540	719,713	719,713				
Kaneland Summer 2021	536,700	516,182	20,518	3.8%	516,182	100.0%	20,518	536,700	536,700				
New York Street	132,037	109,252	22,805	17.3%	109,252	100.0%	22,805	132,057	132,037				
Sandwich High School	116,711	104,542	12,169	10.4%	104,542	100.0%	12,169	116,711	116,711				
Salt Creek Sanitary	17,930	12,255	5,695	31.7%	12,255	100.0%	5,695	17,950	17,930				
Sesame HS	200,971	174,483	26,488	13.2%	174,483	100.0%	26,488	200,971	200,971				
St Charles Baker CC	216,233	179,479	36,754	17.0%	179,479	100.0%	36,754	216,233	216,233				
Simmons Park	237,000	218,041	18,959	8.0%	218,041	100.0%	18,959	237,000	237,000				
WASD Gen.	2,782,789	2,697,047	85,742	3.1%	2,697,047	100.0%	85,742	2,782,789	2,782,789				
WASD Scevery	463,062	428,784	34,278	7.4%	428,784	100.0%	34,278	463,062	463,062				
Other Closed Jobs	179,974	161,514	18,460	10.3%	161,514	100.0%	18,460	179,974	179,974				
	7,660,906	7,258,467	402,439	5.3%	7,258,467	100.0%	402,439	7,660,906	7,660,906				
	$ 40,916,898	$ 38,935,912	$ 1,980,986	4.8%	31,564,771	81.1%	1,435,754	33,000,425	$ 33,026,116				
Amounts recognized in previous years					7,610,671		394,994	8,015,665					
					$ 23,954,100		$ 1,040,760	$ 24,984,760					

LITE CONSTRUCTION, INC.
SCHEDULE OF BACKLOG
September 30, 2022

Project	Adjusted Contract Amount
Contracts on which work has not yet begun:	
West Aurora Geothermal	$ 6,394,700
Joliet Carl Sandburg HVAC	2,657,000
City of Batavia	2,315,757
Ken Pickerel House	1,192,700
CDB LaSalle Veterans Doors	234,200
WAHS Door Project	181,700
	12,976,057
Uncompleted portion of jobs in progress	7,890,782
	$ 20,866,839

Backlog represents the amount of revenue on contracts the Company expects to realize from work to be performed on uncompleted contracts in process at year end and from contractual agreements on which work has not yet begun.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1266

AUTHORIZING GYMNASIUM FLOOR REPLACEMENT AT THE JUVENILE JUSTICE CENTER

WHEREAS, Pursuant to 730 ILCS 5/3-15-2 (b), the Illinois Department of Juvenile Justice (IDJJ) is responsible for establishing minimum standards for juvenile detention centers in the state. Section 2602.260 of IDJJ's County Juvenile Detention Standards required any facility with a rated capacity of 60 or more to have a standard size gymnasium and requires at least one hour of physical recreation be scheduled each day; and

WHEREAS, The Kane County Juvenile Justice Center opened in 1997. The gymnasium is used every day, multiple times a day. Numerous gymnasium floor tiles are broken and no longer adhering to the floor. The gymnasium floor is 26 years old and has never been replaced; and

WHEREAS, Kane County Building Management has secured three estimates to replace the gymnasium floor at the Kane County Juvenile Justice Center (herein collectively referred to as the "Project"). Sport Court Midwest is able to meet the specifications required by the Kane County Juvenile Justice Center and were the most cost effect estimate.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that a contract for construction be awarded to Sport Court Midwest in the amount of $43,200 for the Project is hereby approved and the Chairman thereof is hereby authorized to execute an agreement therefor.

BE IT FURTHER RESOLVED that the Kane County Board appropriate the amount of Forty Three Thousand Two Hundred Dollars ($43,200) from the Capital Projects Fund #500, Line Item #72010 (Building Improvements) to pay for said Project.

Line Item: 500.800.805.72010
Line Item Description: Building Improvements
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? No
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

AUTHORIZING GYMNASIUM FLOOR REPLACEMENT AT THE JUVENILE JUSTICE CENTER

Committee Flow:
Judicial Public Safety Committee, Finance and Budget Committee, Executive Committee, County Board

Contact:
Lisa Aust 630-232-5805

Budget Information:

Was this item budgeted? No	Appropriation Amount: $43,200
If not budgeted, explain funding source: Due to turnover, Kane County Court Services is under budget. Having increased the detention services per diem rate in 2023, the Kane County Juvenile Justice Center is projecting to out pace last year's detention services billing.	

Summary:

Pursuant to 730 ILCS 5/3-15-2 (b), the Illinois Department of Juvenile Justice (IDJJ) is responsible for establishing minimum standards for juvenile detention centers in the state. Section 2602.260 of IDJJ's County Juvenile Detention Standards required any facility with a rated capacity of 60 or more to have a standard size gymnasium and requires at least one hour of physical recreation be scheduled each day. The Kane County Juvenile Justice Center opened in 1997. The gymnasium is used every day, multiple times a day. Numerous gymnasium floor tiles are broken and no longer adhering to the floor. The gymnasium floor is 26 years old and has never been replaced. Kane County Building Management has secured three estimates to replace the gymnasium floor at the Kane County Juvenile Justice Center. Sports Court Midwest is able to meet the specifications required by the Kane County Juvenile Justice Center and were the most cost effect estimate, at a cost of Forty Three Thousand, Two Hundred ($43,200).

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1294

AUTHORIZING CREATION OF BOYER ROAD SPECIAL SERVICE AREA FUND #5315

WHEREAS, the Boyer Road Special Service Area SW 57 was established on May 9, 2023 as Ordinance 23-187 for the purpose of funding drainage improvements and long term maintenance of those improvements in the area; and

WHEREAS, the most appropriate means of accounting for the expenditures and revenue is through the use of special revenue funds into which the tax levy may be deposited and funds transferred for repayment of loans and fees.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board establish the Boyer Road Special Service Area SW 57 Fund #5315 for the FY 2024 budget and future budget years.

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing Creation of Boyer Road Special Service Area Fund #5315

Committee Flow:
Finance and Budget Committee, Executive Committee, County Board

Contact:
Kathleen T. Hopkinson, 630.208.5132

Budget Information:

Was this item budgeted? No	Appropriation Amount: $N/A
If not budgeted, explain funding source: N/A	

Summary:

On May 9, 2023, the County Board approved Ordinance 23-187 for the purpose of funding drainage improvements and long term maintenance of those improvements in the Boyer Road Special Service Area. In order to properly account for the tax levy revenue, the related expenditures, and the repayment of loans and fees, the County will establish a separate special revenue fund - #5315.

Staff recommends approval to create Fund 5315 for the Boyer Road Special Service Area.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

ORDINANCE NO. 23-187

AN ORDINANCE ESTABLISHING THE BOYER ROAD SPECIAL SERVICE AREA (OR SPECIAL SERVICE AREA NO. SW-57) OF KANE COUNTY, ILLINOIS, AND THE LEVY OF TAXES FOR THE PURPOSE OF PAYING THE COST OF PROVIDING SPECIAL SERVICES IN AND FOR SUCH AREA

WHEREAS, the parcels at 19N312, 19N310 and 19N374 Boyer Road have been subjected to long standing drainage problems due to a failed drainage / drain tile system; and

WHEREAS, a plan has been developed by the County and agreed to by the parcel owners to implement drainage improvements; and

WHEREAS, pursuant to the provisions of Article VII, Section 7, Part (6) of the 1970 Constitution of the State of Illinois (the "Constitution"), the County of Kane is authorized to create special service areas in and for the unincorporated areas of the County; and

WHEREAS, pursuant to the "Special Service Area Tax Law", 35 ILCS 200/27-5, et seq. (2017), the County is authorized to levy and impose taxes upon property within special service areas for the provision of special services to those areas and for the payment of debt incurred in order to provide those services; and

WHEREAS, it is in the public interest that the establishment of the area hereinafter described as a special service area for the purpose of paying the construction of a new stormwater drain tile to resolve a long standing drainage problem and to be designated as the Boyer Road Special Service Area (or Special Service Area No. SW-57), of the County; and

WHEREAS, the Area is contiguous and totally within the boundaries of the unincorporated area of the County; and

WHEREAS, the purpose of establishing the Area is to provide certain special governmental services (the "Services"), to the Area, which are unique and in addition to the services generally provided to the County as a whole. The Long Term Maintenance Services to be provided may include, but are not limited to the following: the operation, maintenance, repair, rehabilitation, replacement and reconstruction of any storm water detention and/or retention area, drainageway, ditch swale, storm sewer or other stormwater facility; costs of design, engineering and other consulting services, surveying and permits, public liability insurance, and all administrative, legal and other costs or expenses incurred in connection therewith and with the administration of the Area, including the repayment of any loan or debt incurred for the provision of any such Services. The maximum long term maintenance levy amount shall increase each year the Special Service Area is active by 1% to account for inflation and shall be available indefinitely; and

WHEREAS, a Construction Project is to be built through the County's Cost-Share Drainage program. The loan program outlines a ten (10) year term at a zero (0) percent interest rate. The Construction Project is defined as the replacement of the subsurface drainage system through the properties of 19N374 Boyer Road, 19N312 Boyer Road and 19N310 Boyer Road. The Boyer Road SSA property owner's share of the construction cost is 66% of the construction cost to a maximum of $10,000 (other 33% is Kane County Cost-Share funds). Lot owners on whose property the construction occurs will be responsible for 100% of the cost of fine grading, topsoil spreading (if required), seeding and watering. The administration of the non-ad valorem special service area shall be added to each levy per Resolution 20-60 that is the lesser of $400 or 5% of each levy. The Boyer Road loan amount shall be collected over a 10 year period after which time the Construction Project levy shall expire. Payments shall be made each year in accordance with the repayment schedule by the property owners in the maximum amount as shown on Exhibit A for the 10 year period. The Cost-Share funding is subject to approval by the Development Committee. If the Cost-Share percentage is denied or funding sources are unavailable for any other reasons, the passage of the SSA by the County Board does not obligate Kane County to move forward with the project; and

WHEREAS, it is in the public interest that the levy of a non-ad valorem annual tax upon all taxable property within the Area be considered for the purpose of paying the cost of providing the Services; and

WHEREAS, the revenue from such tax shall be used solely for Services for which the County is authorized under law to levy taxes or special assessments or to appropriate funds of the County, all of the Services to be in and for the Area; and

WHEREAS, said tax for Long Term Maintenance Services shall be available for an indefinite period of time in an amount sufficient to produce revenues required to provide the Services, and such amount shall not exceed the amount as shown on Exhibit A plus 1% for each year the SSA is active and shall be in addition to all other taxes permitted by law. The Long Term Maintenance Services levy will only be activated if the property owners in the SSA provide a written request to Kane County specifying the project, project cost and duration for which they are requesting that the Long Term Maintenance Services levy be activated. The Long Term Maintenance Services levy request will be subject to County Board approval; and

WHEREAS, said tax shall be levied upon all taxable property within the Area for the Construction Project for 10 years beginning for the tax year that coincides with the first loan payment, in an amount sufficient to produce revenues required to provide the Services, and such amount shall not exceed the amount as shown on Exhibit A and shall be in addition to all other taxes permitted by law; and

WHEREAS, the establishment of the Area was proposed by the Board of the County of Kane (the "County Board") pursuant to Ordinance No. 23-81, entitled: AN ORDINANCE PROPOSING THE ESTABLISHMENT OF THE BOYER ROAD SPECIAL SERVICE AREA (OR SPECIAL SERVICE AREA NO. 57) OF KANE COUNTY, ILLINOIS AND THE LEVY OF TAXES FOR THE PURPOSE OF PAYING THE COST OF PROVIDING SPECIAL SERVICES

IN AND FOR SUCH AREA (the "Proposing Ordinance"), duly adopted on March 14, 2023, and was considered at a public hearing (the "Hearing") held by the County Board on April 11, 2023; and

WHEREAS, notice of the Hearing was given by publication at least once not less than 15 days prior to the Hearing in Kane County Chronicle, the same being a newspaper of general circulation within the County (a copy of the notice and affidavit of publication is on file with the County Clerk as Exhibit B and is incorporated herein); and

WHEREAS, notice of the Hearing was given to the person or persons in whose name the general taxes for the last preceding year were paid on each lot, block, tract or parcel of land lying within the Area. A copy of the notice is on file with the County Clerk as Exhibit C and is incorporated herein; and

WHEREAS, at the Hearing, all interested persons, including persons owning taxable real property located within the Area, were given the opportunity to be heard regarding any issue embodied within the notice, including the establishment of the Area and the levy of taxes, and to file with the County Clerk written objections to the same (a copy of the transcript of the hearing [and the written objections, if any,] are on file with the County Clerk as Exhibit D); and

WHEREAS, the County Board does hereby determine that it is in the public interest and in the interest of the County and Area that the Area be established and the taxes described herein be levied;

NOW, THEREFORE, BE IT RESOLVED by the County Board of the County of Kane, Illinois, as follows:

§1. Incorporation of preambles
The preambles of this Ordinance are hereby incorporated into this text as if set out herein in full as the findings of the County Board.

§2. Final adjournment of Hearing
The Hearing was adjourned on April 11, 2023.

§3. Establishment of Area
(a) The Boyer Road Special Service Area (or Special Service Area No. SW-57) of Kane County, Illinois is hereby established in and for the County and shall consist of the territory legally described in Exhibit E on file with the County Clerk and made a part hereof.

(b) Said territory consists of approximately 15.0 acres lying west of Boyer Road and north of Huntley Road. An accurate map of the Area is on file with the County Clerk as Exhibit F and made a part hereof.

§4. Purpose of the establishing the Area
The purpose of establishing the Area is to provide certain special governmental services (the

"Services"), to the Area, which are unique and in addition to the services generally provided to the County as a whole. The Long Term Maintenance Services to be provided may include, but are not limited to the following: the operation, maintenance, repair, rehabilitation, replacement and reconstruction of any storm water detention and/or retention area, drainageway, ditch swale, storm sewer or other stormwater facility; costs of design, engineering and other consulting services, surveying and permits, public liability insurance, and all administrative, legal and other costs or expenses incurred in connection therewith and with the administration of the Area, including the repayment of any loan or debt incurred for the provision of any such Services.

§5. Tax Levy
The cost of the Services shall be paid by the revenue from the levy of a direct annual tax upon all taxable property within the Area for an indefinite period of time beginning for the 2023 tax bill (payable in 2024) and shall be as described in the SSA document, and shall be in addition to all other taxes permitted by law.

§6. Filing
The Water Resources Department is hereby directed to file and record, certified copy of this Ordinance, including a description of the territory and an accurate map of the Area, and all exhibits, with the Kane County Clerk's Tax Extension Department within 60 days after its adoption and approval.

§7. Repealer
All ordinances, orders and resolutions and parts thereof in conflict herewith be and the same are hereby repealed, and this ordinance be in full force and effect forthwith upon its adoption.

Passed by the Kane County Board on May 9, 2023

John A. Cunningham
Clerk, County Board
Kane County, Illinois

Corinne M. Pierog MA, MBA
Chairman, County Board
Kane County, Illinois

Vote:

PASSED

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1315

AUTHORIZING THE FINANCE DEPARTMENT TO CONTRACT WITH JP MORGAN CHASE BANK, N.A. OF CHICAGO, IL FOR THE PROCUREMENT CREDIT CARD PROGRAM

WHEREAS, a Request for Proposal was sent to banking institutions to serve as the County of Kane credit card provider; and

WHEREAS, it was determined the JP Morgan Chase Bank, N.A. of Chicago, IL is the most suitable vendor to provide credit cards for the County of Kane to purchase miscellaneous items and travel expenditures.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Finance Department is authorized to enter into an agreement with JP Morgan Chase Bank, N.A. of Chicago, IL to serve as the County of Kane credit card provider.

Line Item: Various
Line Item Description: Various
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? N/A
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available?
N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing the Finance Department to Contract with JP Morgan Chase Bank, N.A. of Chicago, IL for the Procurement Credit Card Program

Committee Flow:
Finance and Budget Committee, Executive Committee, County Board

Contact:
Kathleen T Hopkinson, 630.208.5132

Budget Information:

Was this item budgeted? No	Appropriation Amount: $
If not budgeted, explain funding source: ARPA Fund	

Summary:

The Finance Department issued RFP 23-034 for Procurement Card Services. Staff evaluated five (5) proposals and selected JP Morgan Chase Bank, N.A. – Chicago, IL to provide the County with procurement card services.

Staff recommends approval..

County of Kane
PURCHASING DEPARTMENT
KANE COUNTY GOVERNMENT CENTER

719 S. Batavia Avenue, Bldg. A
Geneva, Illinois 60134

Telephone: (630) 208-3803
Fax: (630) 208-5107

September 13, 2023

PROCUREMENT SYNOPSIS

Requesting Department:	Finance Department
Procurement Name:	RFP 23-034 Procurement Card Services
Recommended Vendors:	JP Morgan Chase Bank, N.A.

NOTIFICATION AND RESPONSE

Public Notices: Bidnet Direct and The Daily Herald

Advertising Date:	May 30, 2023	Notices sent/Plan Holders: 83/27
Proposal Due Date:	June 20, 2023	Proposals Received: 5

PURPOSE

This contract will provide Procurement Card Services for Kane County.

Staff evaluators reviewed all proposals received and invited the three top-scoring companies for interviews/demonstrations. The companies that interviewed were FNBO, JP Morgan Chase, and the Kane County Teachers Credit Union. After the interviews/demonstrations, the evaluators rescored and determined that JP Morgan Chase Bank, N.A. of Chicago, IL should provide these services.

Rank	Vendor	Total Average Score
1	**JP Morgan Chase Bank, N.A. – Chicago, IL**	**83.15**
2	Kane County Teachers Credit Union – Elgin, IL	81.79
3	FNBO	73.39
4	Fifth Third Bank – Oak Brook, IL	64.67
5	US Bank – Minneapolis, MN	38.08

The Finance Department recommends that the award for P-card Services go to JP Morgan Chase Bank, N.A. of Chicago, Illinois pending approval by Committee and County Board.

Submitted By:
Karin Kietzman
Karin Kietzman, CPPB
Assistant Director of Purchasing

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1198

AUTHORIZATION OF A CONTRACT FOR KANE COUNTY GENERATOR MAINTENANCE SERVICES

WHEREAS, bids have been solicited for the 2023 Kane County Generator Maintenance Services Bid (BID #23-046) for facilities maintained by Building Management throughout the County of Kane. A total of seven (7) bids were received by the July 27, 2023 at 2:30 p.m. deadline; and

WHEREAS, Building Management outsources all Generator Maintenance Services which cannot be performed in-house by County staff; and

WHEREAS, the contracts cover Generator Maintenance Services at Kane County Government facilities, and Building Management anticipates service and project needs up to Two Hundred Thousand Dollars ($200,000) per fiscal year; and

WHEREAS, the responsive and responsible bidder for Generator Maintenance Services is Midwest Power Incorporated of Ringwood, IL; and

WHEREAS, Midwest Power Incorporated will be used on a preventative maintenance and project by project basis; and

WHEREAS, this will be a two (2) year contract, which will begin on the date of contract execution by the County Board and will have three (3) one (1) year extensions, if mutually agreed upon and the Kane County Board approves. Kane County reserves the right to change the commencement and/or end of the contract periods; and

WHEREAS, accordingly, appropriate funds have been budgeted for the FY2023, Building Managements budget; and

WHEREAS, the Contracts call for the use of funds beyond the present budget year and the County of Kane acknowledges the necessity of the appropriation of such funds.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the chairman thereof is hereby authorized and directed to execute contracts with Midwest Power Incorporated at 4833 Prime Parkway, McHenry, IL 60050 for Generator Maintenance Services on a preventative maintenance and project by project basis for an approved two (2) year term in an amount not to exceed Two Hundred Thousand Dollars ($200,000) per fiscal year.

Line Item Description: Various Budgeted Line Items - Contractual
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No.

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Henry Thompson, 630-762-2174

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $200,000
If not budgeted, explain funding source:	

Summary:

Authorizing a contract for Kane County Generator Maintenance Services for Midwest Power Incorporated for preventative maintenance and on a project by project basis. An amount not to exceed Two Hundred Thousand Dollars ($200,000) per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1202

AUTHORIZING A CONTRACT EXTENSION FOR A WATER TESTING FIRM FOR THE JUDICIAL CENTER CAMPUS WITH PHIGENICS INDEPENDENT WATER MANAGEMENT OF WARRENVILLE, IL

WHEREAS, the County contracted with BRIC to develop a Water Management Plan for the Adult and Juvenile Justice Center buildings; and

WHEREAS, the Water Management Plan outlines both standard water testing and reporting requirements as well as emergency response procedures; and

WHEREAS, the Purchasing Department issued a Request for Qualifications (22-009) to solicit qualified Professional Services for Potable Water Testing Services with one response being received; and

WHEREAS, the County requests and Phigenics agrees to the extension of the contract for an additional one (1) year of services. This is the first authorized one (1) year renewal; and

WHEREAS, Phigenics has been working with County staff on initial testing and the chlorine flushing system and they are both qualified for the work and were incredibly responsive when testing services and flushing equipment was specified with very short notice.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman thereof is hereby authorized and directed to execute a one year contract extension with Phigenics of Warrenville, IL for a Water Testing Firm for the Judicial Center Campus in a not to exceed amount of Sixty Thousand Dollars ($60,000) per fiscal year.

Line Item: 001.080.080.52110, 500.800.805.72010, Various
Line Item Description: Repairs and Maintenance Buildings, Capital, Various
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois
Vote:	

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. **AUTHORIZING THE EXTENSION FOR A WATER TESTING FIRM FOR THE JUDICIAL CENTER CAMPUS WITH PHIGENICS INDEPENDENT WATER MANAGEMENT OF WARRENVILLE, IL**

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Henry Thompson, 630-762-2174

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $60,000
If not budgeted, explain funding source:	

Summary:

Authorizing a one year contract extension for the Judicial Center Campus with Phigenics Independent Water Management. The contract is authorized for an amount not to exceed $60,000 per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1210

AUTHORIZING A CONTRACT EXTENSION FOR A WATER OPERATOR FOR THE JUDICIAL CENTER CAMPUS WITH SHEAFFER AND ROLAND OF GENEVA, IL

WHEREAS, the County owns a watermain system on the Judicial Center campus that requires a Class D operator to provide maintenance through proper flushing, hydrant maintenance and bacteria testing; and

WHEREAS, the County maintains large mechanical systems within the buildings on the campus and wants to ensure the longevity of this equipment by verifying water treatment systems are in place to mitigate the impacts of water chemistry on these systems; and

WHEREAS, the Purchasing Department issued a Request for Qualifications (56-021) to solicit qualified Professional Services for the Water Operator on the Judicial Center Campus with one response being received; and

WHEREAS, the County requests and Sheaffer and Roland agrees to the extension of the contract for an additional one (1) year of services at the same unit cost as the original agreement. This is the first authorized one (1) year renewal; and

WHEREAS, Sheaffer and Roland has been operating the watermain system on the Judicial campus since earlier this year and they are both qualified for the work and were incredibly responsive when flushing services were required with very short notice.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman thereof is hereby authorized and directed to execute a one year contract extension with Sheaffer and Roland of Geneva, IL for a Water Operator for the Judicial Center Campus in a not to exceed amount of Twenty-one Thousand Eight Hundred dollars ($21,800) per fiscal year.

Line Item: 001.080.080.52110
Line Item Description: Repairs and Maintenance Buildings
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. **AUTHORIZING THE EXTENSION FOR A WATER OPERATOR FOR THE JUDICIAL CENTER CAMPUS WITH SHEAFFER AND ROLAND OF GENEVA, IL**

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Henry Thompson, 630-762-2174

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $21,800
If not budgeted, explain funding source:	

Summary:

Authorizing a one year contract extension for a water operator for the judicial center campus with Sheaffer and Roland. The contract authorizes that the Judicial Center Campus is not to exceed $21,800 per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1211

AUTHORIZING A CONTRACT FOR BUILDING MANAGEMENT SNOW PLOWING SERVICES

WHEREAS, Kane County has solicited and received six (6) bids (BID#23-028) for snow removal services at the following properties: Government Center, Bldg C, Judicial Center, Juvenile Justice Center, Sheriff's Office and Jail, Animal Control, Gas Pumps and OEM; and,

WHEREAS, the lowest responsive, responsible bidder, as per bid documents and specifications was Santa's Village Enterprises 601 Dundee Avenue East Dundee, IL 60118; and

WHEREAS, this is a three (3) year "Zero Tolerance Accumulation" contract, with two (2) optional mutually agreed upon one (1) year extensions as outlined in the bid specifications; and

WHEREAS, the cost of the Building Management snow plowing will be not to exceed Two Hundred and Fifty Thousand Dollars ($250,000) per fiscal year; and

WHEREAS, funds have been budgeted and will be paid from the Building Management Repairs Maintenance- Roads fund (001.080.080.52020); and

WHEREAS, the Contract calls for the use of funds beyond the present budget year and the County of Kane acknowledges the necessity of the appropriation of such funds.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman is hereby authorized and directed to execute a three (3) year contract with Santa's Village Enterprises, 601 Dundee Avenue, East Dundee, IL 60118 for snow removal and salting services for six months seasonally for Building Management, in the amount of and not to exceed Two Hundred and Fifty Thousand Dollars ($250,000) per fiscal year.

Line Item: 001.080.080.52020
Line Item Description: Repairs Maintenance- Roads
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. **AUTHORIZING A CONTRACT FOR BUILDING MANAGEMENT SNOW PLOWING SERVICES**

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Henry Thompson, 630-762-2174

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $250,000
If not budgeted, explain funding source:	

Summary:

The resolution is authorizing a three year "Zero Tolerance Accumulation" contract for snow removal services through Santa's Village. The contract authorizes for an amount of and not to exceed $250,000 per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1216

AUTHORIZING A CONTRACT FOR KANE COUNTY ELECTRICIAN SERVICES

WHEREAS, bids have been solicited for the Electrician Services (BID#23-048) for facilities maintained by Building Management throughout the County of Kane and the Mill Creek SSA. A total of three (3) bids were received by the July 27, 2023 at 2:30 p.m. deadline; and

WHEREAS, the contract covers Electrician Services on a project by project basis at Kane County Government facilities and the Mill Creek SSA, and Building Management anticipates services needs up to Two Hundred and Fifty Thousand Dollars ($250,000) per fiscal year; and

WHEREAS, the responsive and responsible bidders for the Electrician Services are 1.) Gatza Electric of Plano, 2.) Kellenberger Electric of Elgin, and 3.) Rehm Electric Shop of St. Charles; and

WHEREAS, Gatza Electric, Kellenberger Electric, Inc., and Rehm Electric Shop, Inc. will be used on a project by project basis, at the per hour rates cited in their contract; and

WHEREAS, this will be a two (2) year contract, which will begin on the date of contract execution by the Kane County Board and will have three (3) one (1) year extensions, if mutually agreed upon and the Kane County Board approves. Kane County reserves the right to change the commencement and/or end of the contract periods; and

WHEREAS, accordingly, appropriate funds have been budgeted for the FY2023 Building Management budget and the Mill Creek SSA budget; and

WHEREAS, the contract calls for the use of funds beyond the present budget year and the County of Kane acknowledges the necessity of the appropriation of such funds.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman thereof is hereby authorized and directed to execute a contract with 1.) Gatza Electric, 303 Rosewood Street, Plano, IL 60545, 2.) Kellenberger Electric, Inc.,1540 Fleetwood Drive, Elgin, IL 60123, and 3.) Rehm Electric Shop, Inc., 215 West Main Street, St. Charles, IL 60174 for Electrician Services on a project by project basis for facilities maintained by Building Management throughout the County of Kane and the Mill Creek SSA for an approved two (2) year term in an amount not to exceed Two Hundred and Fifty Thousand Dollars ($250,000) per fiscal year.

Line Item: 001.080.080.52110, 500.800.805.72010, 520.690.730.52120 various
Line Item Description: Repairs and Maint.- Buildings/grounds, Capital, Various
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. **AUTHORIZING A CONTRACT FOR KANE COUNTY ELECTRICIAN SERVICES**

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Henry Thompson, 630-762-2174

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $250,000
If not budgeted, explain funding source:	

Summary:

Authorizing a two year contract for Kane County Electrician Services for 3 vendors (Gatza Electric, Kellenberger Electric and Rehm Electric) on a project by project bases. Authorizing an amount not to exceed Two Hundred and Fifty Thousand Dollars ($250,000) per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1219

AUTHORIZING A CONTRACT FOR FIRE PROTECTION SERVICES

WHEREAS, bids have been solicited for Fire Protection Services (BID#23-043) for facilities maintained by Building Management throughout the County of Kane. A total of four (4) bids were received by the July 18, 2023 deadline; and

WHEREAS, the contract covers fire suppression device and alarm detection device testing and inspection, and fire alarm detection system repair services, and sprinkler system repair services; and

WHEREAS, the responsive and responsible bidder for the fire suppression device and alarm detection device testing and inspection, and fire alarm detection system repair services (Section #1, #2, and #4) was Alarm Detection Systems, Inc. of Aurora, Illinois; and

WHEREAS, the responsive and responsible bidders for the sprinkler system repair services (Section #3) were ADT Commercial, LLC of Burr Ridge, Illinois, Alert Fire Protection of Mokena, Illinois and F.E. Moran Inc. of Northbrook, Illinois; and

WHEREAS, Alarm Detection Systems will be used based on Building Management's needs and the fees cited in their contract; and

WHEREAS, ADT Commercial, LLC, Alert Fire Protection, and F.E. Moran will be used on a project by project basis, at the per hour rates cited in their contract; and

WHEREAS, these will be three (3) year contracts, which will begin on the date of contract execution by the Kane County Board and will have two (2) one (1) year extensions, if mutually agreed upon and the Kane County Board approves. Kane County reserves the right to change the commencement and/or end of the contract periods; and

WHEREAS, accordingly, appropriate funds have been budgeted for the FY2023 Building Management budget; and

WHEREAS, the contracts call for the use of funds beyond the present budget year and the County of Kane acknowledges the necessity of the appropriation of such funds.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman thereof is hereby authorized and directed to execute a contract with Alarm Detection Systems Inc. of Aurora Illinois, ADT Commercial, LLC of Burr Ridge, Illinois, Alert Fire Protection of Mokena, Illinois and F.E. Moran Inc. of Northbrook, Illinois on a as needed, project by project basis, for an approved three (3) year term for a total not to exceed amount of Five Hundred Thousand Dollars ($500,000) per fiscal year.

Line Item: 001.080.080.52110, 500.800.805.72010, various
Line Item Description: Repairs and Maint- Buildings, Capital, Various
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. **AUTHORIZING A CONTRACT FOR FIRE PROTECTION SERVICES**

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Henry Thompson, 630-762-2174

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $500,000
If not budgeted, explain funding source:	

Summary:

The resolution is authorizing a three year contract for fire protection services with Alarm Detection Systems, Inc. of Aurora, ADT Commercial, LLC of Burr Ridge, Alert Fire Protection of Mokena, Illinois and F.E. Moran Inc. The resolution authorizes an amount not to exceed $500,000 per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1289

AUTHORIZING A CONTRACT FOR CLOUD BASED COMMUNITY COMMUNICATION CENTER - TTEC DIGITAL SERVICES

WHEREAS, one of the essential public health functions is to communicate effectively with the community to inform and educate about health and safety, factors that influence it, and how to improve it; and

WHEREAS, the pandemic exposed the critical need for Kane County Health Department to better coordinate information flow in times of crisis whether it is as a result of a health hazard or an outbreak of a communicable disease; and

WHEREAS, a call center will promptly respond to county residents and provide pertinent information to them to address their immediate needs; and

WHEREAS, a call center will address the critical need to promptly increase resources to handle both ongoing communication needs and a surge in calls due to a crisis; and

WHEREAS, TTEC Digital Services has effectively provided the call center during the crisis; the Health Department is transiting to a cloud-based community communication center solution; and

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board that the Chairman is authorized to execute a contract for TTEC Digital Services for a one-year term in an amount not exceed Forty-One Thousand Eight Hundred Dollars ($41,800.00).

Line Item: 350.580.66813.50150
Line Item Description: Contractual Services
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois
Vote:	

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

AUTHORIZING A CONTRACT FOR CLOUD BASED COMMUNITY COMMUNICATION CENTER -TTEC DIGITAL SERVICES

Committee Flow:
Public Health Committee, Finance and Budget Committee, Executive Committee, County Board

Contact:
Michael Isaacson

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $41,800.00
If not budgeted, explain funding source: N/A	

Summary:

One of the essential public health functions is to communicate effectively to inform and educate about health and safety, factors that influence it, and how to improve it. The pandemic exposed the critical need for Kane County Health Department to better coordinate information flow in times of crisis resulting from a health hazard or outbreak of a communicable disease. Transition to a cloud-based community communication center will promptly respond to county residents to provide pertinent information to them and address their immediate needs. The Kane County Health Department's call center will address the critical need to promptly increase resources to handle both ongoing communication needs and a surge in calls due to a crisis.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1197

AUTHORIZING AN AGREEMENT FOR MILL CREEK SPECIAL SERVICE AREA SNOW PLOWING SERVICES

WHEREAS, the fiscal agent for the Mill Creek Special Service Area (SSA), Kane County has solicited and received bids (BID#23-050) for the snow plowing and salting services; and

WHEREAS, the lowest responsible bidder, as per bid documents and specifications was Countywide Landscaping, Inc., 42W892 Beith Road Elburn, IL 60119; and

WHEREAS, the proposed agreement is a three-year "Zero Tolerance Accumulation" contract, with two optional, mutually agreed upon one-year extensions as outlined in the bid specifications; and

WHEREAS, the cost of the Mill Creek SSA snow plowing is not to exceed One Hundred and Sixty-One Thousand Dollars ($161,000) per fiscal year; and

WHEREAS, funds have been budgeted and will be paid from the Mill Creek SSA repairs and Maintenance-Roads fund (520.690.730.52020); and

WHEREAS, the Contract calls for the use of funds beyond the present budget year and the County of Kane acknowledges the necessity of the appropriation of such funds.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman thereof is hereby authorized and directed to execute a three-year contract with Countywide Landscaping, Inc, 42W892 Beith Road Elburn, IL 60119 for snow removal and salting services for the Mill Creek SSA in an amount not to exceed One Hundred and Sixty-One Thousand Dollars ($161,000) per fiscal year.

Line Item: 520.690.730.52020
Line Item Description: Repairs Maintenance Roads
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. **AUTHORIZING A CONTRACT FOR MILL CREEK SSA SNOW PLOWING**

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board

Contact: Roger Fahenstock, 630-232-3571

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $161,000
If not budgeted, explain funding source:	

Summary:

Resolution authorizing a contract for Mill Creek SSA Snow Plowing through Countywide Landscaping, Inc. Authorizing a three (3) year "Zero Tolerance Accumulation" contract for an amount not to exceed $161,000 per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1191

AUTHORIZATION FOR MILL CREEK PARKWAY TREE INSTALLATION SERVICES CONTRACT EXTENSION

WHEREAS, Kane County Board resolution 20-76 authorized an agreement with Langton Group of Woodstock, IL for parkway tree installation services for the Mill Creek Special Service Area (SSA) for a two-year term with an option for three, one-year renewals; and

WHEREAS, the Kane County Board authorized a one-year extension with resolution 23-16 and Langton Group agrees to the second extension of the agreement for an additional one-year of services at the same unit cost as the original agreement; and

WHEREAS, the County has the continuous need to use Langton Group for additional services for the Mill Creek SSA; and

WHEREAS, the Mill Creek SSA has increased demand for tree installation services and is requesting authorization to spend Sixty Thousand Dollars ($60,000) per fiscal year with Langton Group of Woodstock.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman thereof is hereby authorized and directed to execute a one-year contract extension with Langton Group of Woodstock for Parkway Tree Installation Services in an amount not to exceed Sixty Thousand Dollars ($60,000) per fiscal year.

Line Item: 520.690.730.52120
Line Item Description: Repairs and Maintenance Grounds
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. **AUTHORIZING THE EXTENSION FOR MILL CREEK SSA PARKWAY TREE & STUMP REMOVAL SERVICES**

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Roger Fahnestock, 630-232-3571

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $60,000
If not budgeted, explain funding source:	

Summary:

Resolution authorizing a contract extension for Mill Creek SSA Parkway tree and stump removal through Langton Group. Authorized for an amount not to exceed $60,000 per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1326

AUTHORIZING CONTRACT EXTENSION FOR BOTTLED WATER SERVICE

WHEREAS, Proposals were solicited and received and the County of Kane has entered into a bottled water service contract, approved by Resolution No. 19-315, with an option to extend the contract for three (3) one-year terms for the sale and bulk delivery of bottled water and cooler rentals to various County facilities; and

WHEREAS, Resolution No. 21-392 approved the first option year for a two-year term which is set to expire on October 31, 2023. Century Spring of P.O. Box 275 Genesee Depot, WI agreed to extend the current contract under the same terms and conditions, with a cost increase of $.60 for 9 oz. cup. This is the final option year period, at the following costs;

- 5 Gal. Century Spring Purified Bottled Water $4.29
- Cooler Hot/Cold Rental per Month $2.99
- Delivery Fee per Each Account per Delivery $2.00
- 9 oz. Cup (100/Sleeve) $3.00

WHEREAS, bottled water and coolers shall be delivered on an as-needed basis by Century Spring based on a pre-arranged delivery schedule or upon request by County Offices and Departments.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board by the Kane County Board that the Chairman is hereby authorized to execute the Service Riders for a contract extension for the bottled water service program with Century Springs. The option year period commences November 1, 2023 to October 31, 2024.

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Approving of a contract extension for the County-wide Bottled Water Service Program.

Committee Flow:
Finance and Budget Committee, Executive Committee, County Board

Contact:
Karin Kietzman, 630-444-1071

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $ Various
If not budgeted, explain funding source: n/a	

Summary:

This is a final year contract extension for the bottled water service program for various Kane County Offices for the Kane County Purchasing Department.

The previous contract was competitively solicited and awarded by the County Board on September 10, 2019 per Res. 19-315, to Century Spring of Genesee Depot, WI for a two (2) year term with a mutual option for three (3) one (1) year renewals upon agreed by both parties. Resolution 21-292 approved a two (2) year contract extension which will expire on October 30, 2023.

The County hereby requests that Century Spring agree and offer to extend the current bottled water service program for the final one-year terms with a minimal cost adjustment on the 9 oz., cup due to manufacturer cost increase. The new contract period is to commence from November 1, 2023 through October 30, 2024 or upon approval by the full Kane County Board. This is the final contract renewal as allowed per RFP 36-019.

County of Kane
PURCHASING DEPARTMENT
KANE COUNTY GOVERNMENT CENTER

719 S. Batavia Avenue, Bldg. A.
Geneva, Illinois 60134

Telephone: (630) 232-5929
Fax: (630) 208-5107

September 11, 2023

OPTION YEAR
CONTRACT SYNOPSIS

Requesting Department:	Kane County Purchasing Department
Procurement Name:	**RFP 36-019 Bottled Water Service Program**
Recommended Vendor:	Century Spring

PURPOSE:
This is a final year contract extension for the bottled water service program for various Kane County offices for the Kane County Purchasing Department.

The previous contract was competitively solicited and awarded by the County Board on September 10, 2019 per Res. 19-315, to Century Spring of Genesee Depot, WI for a two (2) year term with a mutual option for three (3) one (1) year renewals upon agreed by both parties. Resolution 21-292 approved a two (2) year contract extension which will expire on October 30, 2023.

The County hereby requests that Century Spring agree and offer to extend the current bottled water service program for the final one-year terms with a minimal cost adjustment of $.60 on the 9 oz., cup due to manufacturer cost increase. The new contract period is to commence from November 1, 2023 through October 30, 2024 or upon approval by the full Kane County Board. This is the final contract renewal as allowed per RFP 36-019.

Scoring Summary

VENDOR	TOTAL AVERAGE SCORES
Century Spring, Genesee, WI	89%
DS Services of America, Inc., Atlanta, GA	78%
Nestle Water North America, Inc., Woodridge, IL	77%

Based on the following criteria, the Purchasing Department recommends approval and award of a contract extension for the County bottled water service and delivery program to Century Spring of Geneses Depot, WI pending the Kane County Board approval:

- County Offices and staff have been very happy and satisfied with the services that they have been providing.
- Contract compliance, and no other issues with services, delivery, report, and billing.
- Continuing to yield an annual cost saving when compared to other proposals.
-

Submitted By:
Tim Keovongsak, CPPB
Purchasing Department

CENTURY®
SPRINGS
100 YEARS PURE

CENTURY SPRINGS
PO BOX 275
GENESEE DEPOT WI 53127
WWW.CENTURYSPRINGS.COM
1-800-825-7873

Tim Keovongsak, CPPB
Assistant Director of Purchasing
Kane County Purchasing Department
719 S. Batavia Ave. Bldg. A, Geneva, IL 60134

August, 17, 2023

Dear Tim:

Century Spring is interested in continuing to provide services for the remaining year and through October of 2024.

The service terms and conditions will remain the same as well as the current cost with the exception of the sleeves of cups they will now be $3.00 per sleeves due to manufacturing cost increases. Please reference the attached contract price sheet.

Thank you,

Jeff Saeger | Route Manager
Century Springs

Bottled Water Contract

CENTURY SPRINGS

Contract Period (November 1, 2023 - October 31, 2024)

PRODUCTS DESCRIPTIONS	CONTRACT PRICE
5 Gal Century Springs Purified Drinking Water (with handle)	**$4.29**
Water Coolers Hot/Cold Dispenser Rental per Month	**$2.99**
Delivery Fee per each Acct., per Delivery	**$2.00**
OPTIONAL ITEMS	
Bottleless Filtration System per Month. Based cost starting at:	$25.00
5 Gal Century Spring Distilled Water	$4.29
5 Gal Century Springs Spring Water	$4.29
5 Gal Century Springs Fluoridated Water	$4.29
.5 Liter – Ice Mountain Springs Small Bottles – 24/Case	$4.25
9 oz. cups (100/sleeve)	$3.00
10 oz. Hot Cups	$3.00
Room Temp/Cold Water Cooler Dispenser Renal per Month	$2.99

Please send all request and question into ***INFO@CENTURYSPRINGS.COM*** *as it is monitor by Century Springs's central customer service during business hour and you will get your needs handled quickly.*

ACCOUNT INFORMATION & BILLING
Kathleen Pugh-Sepsakos
PO Box 275 Genesee Depot, WI 53127
Office# 800-825-7873 Ext. 207
kathleen@centurysprings.com

Carmen Barwick
Office# 262-968-2112
carmen@centurysprings.com

ACCOUNT REPRESENTATIVE
Jeff Saeger
Sales & Service Manager
Century Springs
Direct Cell# 224-230-1413 Office# 800-825-7873
Jeff.saeger@centurysprings.com

NOTE: THIS IS A TWO-YEAR CONTRACT EFFECTIVE FROM November 1, 2023 - October 31, 2024 *WITH ONE (1) ONE-YEAR EXTENSIONS.*

STATE OF ILLINOIS

COUNTY OF KANE

RESOLUTION: NO. 21 - 392

AUTHORIZING CONTRACT EXTENSION BOTTLED WATER SERVICE

WHEREAS, Proposals were solicited and received and the County of Kane has entered into a bottled water service contract, approved by Resolution No. 19-315, with an option to extend the contract for three (3) one-year terms for the sale and bulk delivery of bottled water and cooler rentals to various County facilities; and

WHEREAS, Century Spring of P.O. Box 275 Genesee Depot, WI agreed and offered a two (2) year contract extension for bottled water services under the same terms and conditions, with a minimal cost increase as specified and allowed for in RFP 36-019. The option year period to commence on November 1st 2021 to October 30, 2023 with following cost;

- 5 Gal. Century Spring Purified Bottled Water	$4.29
- Cooler Hot/Cold Rental per Month	$2.99
- Delivery Fee per Each Account per Delivery	$2.00

WHEREAS, bottled water and coolers shall be delivered on as per-need basis by Century Spring based on a pre-arrange delivery schedules or upon request by County's facilities; and

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman is hereby authorized to execute the Service Riders for the two-year contract extension for bulk purchase and delivery of bottled water and cooler rental with Century Spring of Genesee Depot, WI. The option year period commencing November 1, 2021 to October 31, 2023.

Passed by the Kane County Board on September 14, 2021.

John A. Cunningham
Clerk, County Board
Kane County, Illinois

Corinne M. Pierog MA, MBA
Chairman, County Board
Kane County, Illinois

Vote:
[Unanimous]

Authorizing Contract Extension for Bottled Water Service

STATE OF ILLINOIS

COUNTY OF KANE

RESOLUTION: NO. 19 - 315

AUTHORIZING BOTTLED WATER SERVICES CONTRACT

WHEREAS, Kane County provides bottled water service to employees at all County facilities and visitors to the Third Street Courthouse since the water fountains were removed due to plumbing issues; and

WHEREAS, due to the current contract term expiring the end of October 2019 with Purchasing Staff anticipating a cost increase with a potential contract renewal, Purchasing Staff issued a request for Proposals in order to provide cost savings for this service; and

WHEREAS, three proposals were submitted, one of which was from the current vendor, Nestle Waters North America of Woodridge, IL which included a product cost increase of approximately 5.7% and delivery fee increase of approximately 76%; and

WHEREAS, the proposals were reviewed and scored, with a new vendor, Century Springs of Genessee Depot, WI, with a warehouse in Cary, IL offering a significant cost savings of approximate 25% with price guaranteed for a new two-year contract that includes three (3) one year extensions to be mutually agreed upon; and

WHEREAS, this contract calls for the use of funds beyond the current budget year and the County of Kane acknowledges the necessity of the appropriation of such funds; and

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the County Board Chairman is authorized to execute a two-year contract with Century Springs of Genessee Depot, WI, for an amount not to exceed $20,000 per year for a total not to exceed $40,000 and includes three one-year options for renewal, to be mutually agreed upon, to be charged to the appropriate budgeted accounts.

Line Item	Line Item Description	Was Personnel/Item/Service approved in original budget or a subsequent budget revision?	Are funds currently available for this Personnel/Item/Service in the specific line item?	If funds are not currently available in the specified line item, where are the funds available?
Various Budget Accts	Commodities	Yes	Yes	N/A

Passed by the Kane County Board on September 10, 2019.

John A. Cunningham
Clerk, County Board
Kane County, Illinois

Christopher J. Lauzen
Chairman, County Board
Kane County, Illinois

Vote:
[Unanimous]

19-09 Bottled Water Services

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1190

AUTHORIZING THE EXTENSION FOR LANDSCAPE MAINTENANCE SERVICE FOR THE MILL CREEK SPECIAL SERVICE AREA

WHEREAS, Kane County Board resolution 21-153 authorized an agreement with Cornerstone Partners Horticultural Services Company of St. Charles to provide landscape maintenance services for the Mill Creek Special Service Area (SSA) for a two-year term with an option for three, one-year renewals; and

WHEREAS, Kane County Board resolution 23-17 authorized the first one-year extension with Cornerstone Partners Horticultural Services Company; and

WHEREAS, Cornerstone Partners Horticultural Services Company agrees to a second one-year extension of the contract for an additional one-year of services at the same unit cost as the original agreement; and

WHEREAS, the County has the need to use Cornerstone Partners Horticultural Services Company for additional services for the Mill Creek SSA; and

WHEREAS, the original Resolution authorized an agreement with Cornerstone Partners Horticultural Services for landscape maintenance service at a cost of One Hundred Thirty-Nine Thousand, Eight Hundred Dollars and Seventy-Two Cents ($139,800.72) and;

WHEREAS, the Mill Creek SSA requires additional services from Cornerstone Partners Horticultural Services for landscape maintenance service at a cost of Fifty Thousand Dollars ($50,000) totaling One Hundred Eighty-Nine Thousand, Eight Hundred Dollars and Seventy-Two cents ($189,800.72) per fiscal year.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman thereof is hereby authorized and directed to execute a one-year contract extension with Cornerstone Partners Horticultural Services of St. Charles for Landscape Maintenance Services for the Mill Creek SSA; and

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Kane County Board that the Mill Creek SSA is hereby authorized to expend up to One Hundred Eighty-Nine Thousand, Eight Hundred Dollars and Seventy-Two cents ($189,800.72) per fiscal year with Cornerstone Partners Horticultural Services of St. Charles for Landscape Maintenance Services.

Line Item: 520.690.730.52120
Line Item Description: Repairs and Maintenance Grounds
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. **AUTHORIZING THE EXTENSION FOR LANDSCAPE MAINTENANCE SERVICE FOR THE MILL CREEK SSA**

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Roger Fahnestock, 630-232-3571

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $189,800.72
If not budgeted, explain funding source:	

Summary:

Resolution authorizing the one-year extension for landscape maintenance service for the Mill Creek SSA with Cornerstone Partners Horticultural Services Company. The Kane County board is authorizing that Mill Creek SSA is authorized to expend up to $189,800.72 per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1192

AUTHORIZING AN EXTENSION OF CONCRETE LIFTING AND REPAIR SERVICES AGREEMENT FOR THE MILL CREEK SPECIAL SERVICE AREA

WHEREAS, bids were solicited for Concrete Lifting and Repair Services for the Mill Creek Special Service Area (SSA) (BID#09-020); and

WHEREAS, the lowest responsive and responsible bidder, as per bid documents and specifications was Raise-Rite Concrete Lifting, of Carol Stream, IL; and

WHEREAS, this is the second renewal of three (3) additional one (1) year renewal periods. Kane County reserves the right to renegotiate the scope of the work to meet its budgetary demands and the right to add additional services; an

WHEREAS, appropriate funds have been budgeted and are available in the FY2023 Mill Creek SSA operating budget; and

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman thereof is hereby authorized and directed to execute a one-year contract extension with Raise-Rite Concrete Lifting, Inc. 195 Kehoe Boulevard #5, Carol Stream, IL 60188 in a not to exceed amount of Thirty Thousand Dollars ($30,000) per fiscal year.

Line Item: 520.690.730.52120
Line Item Description: Repairs and Maintenance Grounds
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. **AUTHORIZING A CONTRACT EXTENSION FOR MILL CREEK SSA CONCRETE LIFTING & REPAIR SERVICES**

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Roger Fahnestock, 630-232-3571

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $30,000
If not budgeted, explain funding source:	

Summary:

Authorizing the contract extension of one year for Mill Creek SSA concrete lifting & repair services through Raise-Rite Concrete Lifting for a not to exceed amount of $30,000 per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1168

AUTHORIZING THE CHILD PROTECTION DATA COURTS GRANT

WHEREAS, Kane County on behalf of the Sixteenth Judicial Circuit, Kane County, in collaboration with the Administrative Office of the Illinois Courts agree to participate in the implementation of the Child Protection Data Courts project; and

WHEREAS, the Child Protection Data Courts project was created as part of the Omnibus Budget Reconciliation Act of 1993 which provides a portion of federal funds to state court systems to conduct assessments of their foster care and adoptions laws and judicial processes, and to develop and implement a plan for system improvement; and

WHEREAS, the Kane County Judiciary has been notified by the Administrative Office of Illinois Courts that one hundred percent of the cost of the project $4,150.00 (Four Thousand One Hundred Fifty Dollars) will pass through Kane County and are to be disbursed to the appropriate vendors conducting the study; and

WHEREAS, the budget amounts need to be reflected in the revenue and expense General Ledger accounts;

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman thereof and hereby is authorized to accept the Child Protection Data Courts grant and authorize the necessary expenditures to implement the project.

Line Item: 001.240.000.33700
Line Item Description: Child Protection Data Court Grant $4,150.00
Line Item: 001.240.240.55000
Line Item Description: Miscellaneous Contractual Expense $4,150.00
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing the Child Protection Data Courts Grant

Committee Flow:
Judicial Public Safety Committee, Finance and Budget Committee, Executive Committee, County Board

Contact:
Jason W. Mathis, 630-208-5145

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $4,150.00
If not budgeted, explain funding source: N/A	

Summary:

To authorize acceptance of the Child Protection Data Courts grant in the amount of $4,150.00.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1222

AUTHORIZING ADDITIONAL EXPENDITURE OF FUNDS FOR ONLINE MARKETPLACE AND MAINTENANCE, REPAIR, AND OPERATIONS (MRO) SUPPLIES & EQUIPMENT

WHEREAS, Pursuant to article VII, section 10, of the Illinois Constitution of 1970, and the Intergovernmental Cooperation Act, 5 ILCS 220/1, et seq., the County is permitted to procure materials, services, supplies, equipment, construction and construction-related services through other governmental agencies, provided certain conditions are satisfied; a

WHEREAS, Article VI, Division 3, Section 2-221 of the Kane County Code permits joint purchasing when the procurements are made pursuant to a written agreement, competitive selection procedures were used, the intent is not to circumvent competitive bidding, and the county is authorized under law or regulation to contract with another government agency; and

WHEREAS, OMNIA Partners is a cooperative purchasing organization that aggregates the purchasing power of governmental entities nationwide; and

WHEREAS, OMNIA Partners offers access to cooperative purchasing agreements that have been awarded through a request for proposal competitive solicitation issued by a governmental entity, also known as a principal procurement agency; and

WHEREAS, in order for another governmental entity, also known as a participating public agency, to utilize agreements available through OMNIA Partners, the participating agency may execute a Master Intergovernmental Cooperative Purchasing Agreement (“MICPA”); and

WHEREAS, the MICPA is an agreement between the principal procurement agencies and the participating public agencies that permits the participating public agencies to purchase products pursuant to the master agreements executed by the principal procurement agencies and the third-party businesses; and

WHEREAS, the Purchasing Department of Kane wishes to execute the MICPA in order to cooperatively utilize master agreements made available through OMNIA Partners in accordance with Article VI, Division 3, Section 2-221 of the Kane County Code.

WHEREAS, the Kane County Building Management Department desires to utilize the Omnia Partners Cooperative with Grainger to purchase from the Grainger Online Marketplace and Maintenance, Repair and Operations (MRO) Supplies & Equipment; and

WHEREAS, the Omnia Partners contract was publicly bid by Region 4 Education Service Center (ESC) of Houston, Texas and is available under Contract Number: R192002; and

WHEREAS, the Omnia Partners contract was awarded from April 1, 2020 through March 31, 2023 with the option to renew for two (2) additional one (1) year periods through March 31, 2025; and

WHEREAS, the Omnia Partners contract was publicly bid by Region 4 Education Service Center (ESC) of Houston, Texas and is available under Contract Number: MA3461; and

WHEREAS, the Omnia Partners contract was awarded from May 6, 2020 through May 5, 2025 with no renewal options; and

WHEREAS, Kane County has used the Omnia Partners contract in the past; and

WHEREAS, this purchase calls for the use of funds during multiple budget years; and

WHEREAS, the Building Management Department has had additional needs throughout the County Offices and Departments to purchase online marketplace and maintenance, repair and operations (MRO) supplies & equipment through Grainger. Due to the additional needs, Building Management has the need to add One Hundred Thousand Dollars $100,000 to the per fiscal year amount making the total Four Hundred Thousand Dollars $400,000 per fiscal year; and

WHEREAS, Kane County acknowledges the necessity of the appropriation of such funds from multiple County funds and line items at a cost not to exceed $400,000 per year.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Building Management Department is hereby authorized and directed to expend a not to exceed Four hundred thousand ($400,000) per year utilizing the Omnia Partners Cooperative to purchase Online Marketplace and Maintenance, Repair and Operations (MRO) Supplies & Equipment through Grainger contract #MA3461 through May 5, 2025 and Grainger contract #R192002 to be paid from various line items as needed for departments and offices.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the Kane County Board Chairman and the Building Management Department are authorized and directed to purchase and enter into joint purchasing agreements with OMNIA Partners, Region 4 Education Service Center (ESC) of Houston, Texas (Contract R192002) and Grainger for the purchase of building materials, tools, and supplies.

Line Item: 001.080.080.52110, 001.080.080.52160, various
Line Item Description: Repairs and Maint- Buildings/equipment, Various
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. **AUTHORIZING ADDITIONAL EXPENDITURE OF FUNDS FOR ONLINE MARKETPLACE AND MAINTENANCE, REPAIR AND OPERATIONS (MRO) SUPPLIES AND EQUIPMENT**

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Henry Thompson, 630-762-2174

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $400,000
If not budgeted, explain funding source:	

Summary:

This resolution is authorizing an additional expenditure of funds for Grainger for the purchase of building materials, tools and supplies. This resolution authorizes an extra $100,000 to make it for an amount not to exceed $400,000 per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1183

AUTHORIZING EXPENDITURE OF FUNDS FOR MULTI-FUNCTION COPIER DEVICES, SERVICE SOLUTIONS, PRINT GOODS, AND SERVICE RENEWAL

WHEREAS, Pursuant to article VII, section 10, of the Illinois Constitution of 1970, and the Intergovernmental Cooperation Act, 5 ILCS 220/1, et seq; the County is permitted to procure materials, services, supplies, equipment, construction, and construction-related services through other governmental agencies, provided certain conditions are satisfied; and

WHEREAS, Article VI, Division 3, section 2-221 of the Kane County Code permits joint purchasing when the procurements are made pursuant to a written agreement, competitive selection procedures were used, the intent is not to circumvent competitive bidding, and the county is authorized under law or regulation to contract with another government agency; and

WHEREAS, OMNIA Partners is a cooperative purchasing organization that aggregates the purchasing power of governmental entities nationwide; and

WHEREAS, OMNIA Partners offers access to cooperative purchasing agreements that have been awarded through a request for proposal competitive solicitation issued by a governmental entity, also known as a principal procurement agency; and

WHEREAS, in order for another governmental entity, also known as a participating public agency, to utilize agreements available through OMNIA Partners, the participating agency may execute a Master Intergovernmental Cooperative Purchasing Agreement (“MICPA)”; and

WHEREAS, the MICPA is an agreement between the principal procurement agencies and the participating public agencies that permits the participating public agencies to purchase products pursuant to the master agreements executed by the principal procurement agencies and the third party businesses; and

WHEREAS, the Purchasing Department of Kane wishes to execute the MICPA in order to cooperatively utilize master agreements made available through OMNIA Partners in accordance with Article VI, Division 3, Section 2-221 of the Kane County Code; and

WHEREAS, the Kane County Information Technologies Department desires to utilize the OMNIA Partners Cooperative with Toshiba to purchase copiers, printers, and related services; and

WHEREAS, The Omnia Partners contract was publicly bid by University of California of California and is available under Contract Number 2020002755; and

WHEREAS, The Omnia Partners contract number 2020002755 was awarded from December 16, 2020 through December 15, 2025 with the option to renew for five (5) additional one (1) year periods through December 15, 2030; and

WHEREAS, The Omnia Partners contract was publicly bid by County of DuPage of Illinois and is available under Contract Number FI-R-0251-18; and

WHEREAS, The Omnia Partners contract number FI-R-0251-18 was awarded from October 1, 2018 through September 30, 2023 and has been extended to March 31, 2024; and

WHEREAS, Kane County has used the Omnia Partners contract in the past; and

WHEREAS, these purchases call for the use of funds during multiple budget years; and

WHEREAS, Kane County acknowledges the necessity of the appropriation of such funds from multiple County funds and line items at a cost not to exceed $150,000 per year.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Information Technologies Department is hereby authorized to expend not to exceed One Hundred and Fifty Thousand Dollars ($150,000) per year utilizing the OMNIA Partners Cooperative to purchase copiers, printers, and related services through Canon through March 31, 2024 to be paid from various line items as needed for departments and offices.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the Kane County Board Chairman and the Information Technologies Department are authorized to purchase and enter into joint purchasing agreements with OMNIA Partners, University of California (Contract # 2020002755), and County of DuPage (Contract # FI-R-0251-18), and Canon for the purchase and lease of copiers, multi-function printers, scanners, parts, services, maintenance, and supplies.

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. Authorizing Expenditure of Funds for Multi-Function Copier Devices and Service Solutions and Print Goods and Service Renewal

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Charles Lasky, 630-232-5827

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $150,000
If not budgeted, explain funding source:	

Summary:

Resolution authorizing $150,000 per fiscal year for copiers, printers, and related services. This resolution also renews the OMNIA agreement with Canon through March of 2024.

Each year the Information Technologies Department purchases replacement and/or new copiers and printers and related services on behalf of the County offices and departments. By utilizing the joint purchase capabilities of the OMNIA Partners Cooperative with Canon, we can receive favorable pricing for these purchases and are able to find additional items that are in stock and ready to ship.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1187

AUTHORIZING EXPENDITURE OF FUNDS FOR COPIERS, PRINTERS, AND RELATED SERVICES RENEWAL

WHEREAS, Pursuant to article VII, section 10, of the Illinois Constitution of 1970, and the Intergovernmental Cooperation Act, 5 ILCS 220/1, et seq; the County is permitted to procure materials, services, supplies, equipment, construction and construction-related services through other governmental agencies, provided certain conditions are satisfied; and

WHEREAS, Article VI, Division 3, section 2-221 of the Kane County Code permits joint purchasing when the procurements are made pursuant to a written agreement, competitive selection procedures were used, the intent is not to circumvent competitive bidding, and the county is authorized under law or regulation to contract with another government agency; and

WHEREAS, OMNIA Partners is a cooperative purchasing organization that aggregates the purchasing power of governmental entities nationwide; and

WHEREAS, OMNIA Partners offers access to cooperative purchasing agreements that have been awarded through a request for proposal competitive solicitation issued by a governmental entity, also known as a principal procurement agency; and

WHEREAS, in order for another governmental entity, also known as a participating public agency, to utilize agreements available through OMNIA Partners, the participating agency may execute a Master Intergovernmental Cooperative Purchasing Agreement (“MICPA)”; and

WHEREAS, the MICPA is an agreement between the principal procurement agencies and the participating public agencies that permits the participating public agencies to purchase products pursuant to the master agreements executed by the principal procurement agencies and the third party businesses; and

WHEREAS, the Purchasing Department of Kane wishes to execute the MICPA in order to cooperatively utilize master agreements made available through OMNIA Partners in accordance with Article VI, Division 3, Section 2-221 of the Kane County Code; and

WHEREAS, the Kane County Information Technologies Department desires to utilize the OMNIA Partners Cooperative with Toshiba to purchase copiers, printers, and related services; and

WHEREAS, the Omnia Partners contract was publicly bid by Region 4 Education Service Center (ESC) of Houston, Texas and is available under Contract Number R191103; and

WHEREAS, the Omnia Partners contract was awarded from June 1, 2020 through May 31, 2023 with the option to renew for two (2) additional one (1) year periods through May 31, 2025; and

WHEREAS, Kane County has used the Omnia Partners contract in the past; and

WHEREAS, these purchases call for the use of funds during multiple budget years; and

WHEREAS, Kane County acknowledges the necessity of the appropriation of such funds from multiple County funds and line items at a cost not to exceed $150,000 per year.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Information Technologies Department is hereby authorized to expend a not to exceed One Hundred and Fifty Thousand Dollars ($150,000) per year utilizing the OMNIA Partners Cooperative to purchase copiers, printers, and related services through Toshiba through May 31, 2024 to be paid from various line items as needed for departments and offices.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the Kane County Board Chairman and the Information Technologies Department are authorized to purchase and enter into joint purchasing agreements with OMNIA Partners, Region 4 Education Service Center (ESC) of Houston, Texas (Contract # R191103), and Toshiba for the purchase and lease of copiers, multi-function printers, scanners, parts, services, maintenance, and supplies.

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. Authorizing Expenditure of Funds for Copiers, Printers, and Related Services Renewal

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Charles Lasky, 630-232-5827

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $150,000
If not budgeted, explain funding source:	

Summary:

Resolution authorizing $150,000 per fiscal year for copiers, printers, and related services. This resolution also renews the OMNIA agreement with Toshiba through May of 2024.

Each year the Information Technologies Department purchases replacement and/or new copiers and printers and related services on behalf of the County offices and departments. By utilizing the joint purchase capabilities of the OMNIA Partners Cooperative with Toshiba, we can receive favorable pricing for these purchases and are able to find additional items that are in stock and ready to ship.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1188

AUTHORIZING EXPENDITURE OF FUNDS FOR COPIERS, PRINTERS, AND RELATED SERVICES RENEWAL

WHEREAS, Pursuant to article VII, section 10, of the Illinois Constitution of 1970, and the Intergovernmental Cooperation Act, 5 ILCS 220/1, et seq; the County is permitted to procure materials, services, supplies, equipment, construction and construction-related services through other governmental agencies, provided certain conditions are satisfied; and

WHEREAS, Article VI, Division 3, section 2-221 of the Kane County Code permits joint purchasing when the procurements are made pursuant to a written agreement, competitive selection procedures were used, the intent is not to circumvent competitive bidding, and the county is authorized under law or regulation to contract with another government agency; and

WHEREAS, OMNIA Partners is a cooperative purchasing organization that aggregates the purchasing power of governmental entities nationwide; and

WHEREAS, OMNIA Partners offers access to cooperative purchasing agreements that have been awarded through a request for proposal competitive solicitation issued by a governmental entity, also known as a principal procurement agency; and

WHEREAS, in order for another governmental entity, also known as a participating public agency, to utilize agreements available through OMNIA Partners, the participating agency may execute a Master Intergovernmental Cooperative Purchasing Agreement (“MICPA)”; and

WHEREAS, the MICPA is an agreement between the principal procurement agencies and the participating public agencies that permits the participating public agencies to purchase products pursuant to the master agreements executed by the principal procurement agencies and the third party businesses; and

WHEREAS, the Purchasing Department of Kane wishes to execute the MICPA in order to cooperatively utilize master agreements made available through OMNIA Partners in accordance with Article VI, Division 3, Section 2-221 of the Kane County Code; a

WHEREAS, the Kane County Information Technologies Department desires to utilize the OMNIA Partners Cooperative with Xerox to purchase copiers, printers, and related services; and

WHEREAS, the Omnia Partners contract was publicly bid by Region 4 Education Service Center (ESC) of Houston, Texas and is available under Contract Number R191104; and

WHEREAS, the Omnia Partners contract number R191104 was awarded from June 1, 2020 through May 31, 2023 with the option to renew for two (2) additional one (1) year periods through May 31, 2025; and

WHEREAS, Kane County has used the Omnia Partners contract in the past; and

WHEREAS, these purchases call for the use of funds during multiple budget years; and

WHEREAS, Kane County acknowledges the necessity of the appropriation of such funds from multiple County funds and line items at a cost not to exceed $150,000 per year.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Information Technologies Department is hereby authorized to expend a not to exceed One Hundred and Fifty Thousand Dollars ($150,000) per year utilizing the OMNIA Partners Cooperative to purchase copiers, printers, and related services through Xerox through May 31, 2024 to be paid from various line items as needed for departments and offices.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the Kane County Board Chairman and the Information Technologies Department are authorized to purchase and enter into joint purchasing agreements with OMNIA Partners, Region 4 Education Service Center (ESC) of Houston, Texas (Contract # R191104), and Xerox for the purchase and lease of copiers, multi-function printers, scanners, parts, services, maintenance, and supplies.

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. Authorizing Expenditure of Funds for Copiers, Printers, and Related Services Renewal

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Charles Lasky, 630-232-5827

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $150,000
If not budgeted, explain funding source:	

Summary:

Resolution authorizing $150,000 per fiscal year for copiers, printers, and related services. This resolution also renews the OMNIA agreement with XEROX through May of 2024.

Each year the Information Technologies Department purchases replacement and/or new copiers and printers and related services on behalf of the County offices and departments. By utilizing the joint purchase capabilities of the OMNIA Partners Cooperative with XEROX, we can receive favorable pricing for these purchases and are able to find additional items that are in stock and ready to ship.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1224

AUTHORIZING EXPENDITURE OF FUNDS FOR NETWORK STORAGE AND SERVICES

WHEREAS, Pursuant to article VII, section 10, of the Illinois Constitution of 1970, and the Intergovernmental Cooperation Act, 5 ILCS 220/1, et seq., the County is permitted to procure materials, services, supplies, equipment, construction and construction-related services through. other governmental agencies, provided certain conditions are satisfied; and

WHEREAS, Article VI, Division 3, Section 2-221 of the Kane County Code permits joint purchasing when the procurements are made pursuant to a written agreement, competitive selection procedures were used, the intent is not to circumvent competitive bidding, and the county is authorized under law or regulation to contract with another government agency; and

WHEREAS, OMNIA Partners is a cooperative purchasing organization that aggregates the purchasing power of governmental entities nationwide; and

WHEREAS, OMNIA Partners offers access to cooperative purchasing agreements that have been awarded through a request for proposal competitive solicitation issued by a governmental entity, also known as a principal procurement agency; and

WHEREAS, in order for another governmental entity, also known as a participating public agency, to utilize agreements available through OMNIA Partners, the participating agency may execute a Master Intergovernmental Cooperative Purchasing Agreement ("MICPA"); and

WHEREAS, the MICPA is an agreement between the principal procurement agencies and the participating public agencies that permits the participating public agencies to purchase products pursuant to the master agreements executed by the principal procurement agencies and the third-party businesses; and

WHEREAS, the Purchasing Department of Kane wishes to execute the MICPA in order to cooperatively utilize master agreements made available through OMNIA Partners in accordance with Article VI, Division 3, Section 2-221 of the Kane County Code.

WHEREAS, the Kane County Information Technologies Department desires to utilize the Omnia Partners Cooperative to purchase Network Storage and services from Insight Public Sector, Inc; and

WHEREAS, the OMNIA Partners contract was publicly bid by Cobb County, GA and is available under Contract Number: 23-6692-03; and

WHEREAS, the OMNIA Partners Contract was awarded from May 1, 2023 through April 30, 2026 with the option to renew for two (2) additional one (1) year periods through April 30, 2028; and

WHEREAS, Kane County has used the Omnia Partners contract in the past; and

WHEREAS, this purchase calls for the use of funds during multiple budget years; and

WHEREAS, Kane County acknowledges the necessity of the appropriation of such funds from multiple County funds and line items at a cost not to exceed Eight Hundred and Twenty Thousand Dollars ($820,000) per fiscal year.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman thereof is hereby authorized and directed to enter into contract with Insight Public Sector through Omnia Partners Contract Number: 23-6692-03.

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Kane County Board that the Information Technologies Department is hereby authorized to expend a not to exceed amount of Eight Hundred and Twenty Thousand Dollars ($820,000) for network storage and services per fiscal year through April 30, 2026 to be paid from various line items as needed for departments and offices.

Line Item: 500.800.801.70000, various
Line Item Description: Capital Computer Equipment Various
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. AUTHORIZING EXPENDITURE OF FUNDS FOR NETWORK STORAGE AND SERVICES

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Charles Lasky, 630-232-5827

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $820,000
If not budgeted, explain funding source:	

Summary:

This resolution is authorizing the expenditure of funds for network storage and services through OMNIA for Insight Public Sector, Inc until April 30th, 2026. The resolution authorizes an amount not to exceed $820,000 per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1225

AUTHORIZING EXPENDITURE OF FUNDS FOR COMPUTER HARDWARE, SOFTWARE, AND SERVICES

WHEREAS, Pursuant to article VII, section 10, of the Illinois Constitution of 1970, and the Intergovernmental Cooperation Act, 5 ILCS 220/1, et seq., the County is permitted to procure materials, services, supplies, equipment, construction and construction-related services through. other governmental agencies, provided certain conditions are satisfied; and WHEREAS, Click or tap here to enter text.

WHEREAS, Article VI, Division 3, Section 2-221 of the Kane County Code permits joint purchasing when the procurements are made pursuant to a written agreement, competitive selection procedures were used, the intent is not to circumvent competitive bidding, and the county is authorized under law or regulation to contract with another government agency; and

WHEREAS, OMNIA Partners is a cooperative purchasing organization that aggregates the purchasing power of governmental entities nationwide; and

WHEREAS, OMNIA Partners offers access to cooperative purchasing agreements that have been awarded through a request for proposal competitive solicitation issued by a governmental entity, also known as a principal procurement agency; and

WHEREAS, in order for another governmental entity, also known as a participating public agency, to utilize agreements available through OMNIA Partners, the participating agency may execute a Master Intergovernmental Cooperative Purchasing Agreement ("MICPA"); and

WHEREAS, the MICPA is an agreement between the principal procurement agencies and the participating public agencies that permits the participating public agencies to purchase products pursuant to the master agreements executed by the principal procurement agencies and the third-party businesses; and

WHEREAS, the Purchasing Department of Kane wishes to execute the MICPA in order to cooperatively utilize master agreements made available through OMNIA Partners in accordance with Article VI, Division 3, Section 2-221 of the Kane County Code.

WHEREAS, the Kane County Information Technologies Department desires to utilize the Omnia Partners Cooperative to purchase computer hardware, software and services from Insight Public Sector, Inc; and

WHEREAS, the OMNIA Partners contract was publicly bid by Cobb County, GA and is available under Contract Number: 23-6692-03; and

WHEREAS, the OMNIA Partners Contract was awarded from May 1, 2023 through April 30, 2026 with the option to renew for two (2) additional one (1) year periods through April 30, 2028; and

WHEREAS, Kane County has used the Omnia Partners contract in the past; and

WHEREAS, this purchase calls for the use of funds during multiple budget years; and

WHEREAS, Kane County acknowledges the necessity of the appropriation of such funds from multiple County funds and line items at a cost not to exceed Nine Hundred Thousand Dollars ($900,000) per fiscal year.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman thereof is hereby authorized and directed to enter into contract with Insight Public Sector through Omnia Partners Contract Number: 23-6692-03.

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Kane County Board that the Information Technologies Department is hereby authorized to expend a not to exceed amount of Nine Hundred Thousand Dollars ($900,000) for computer hardware, software and services per fiscal year through April 30, 2026 to be paid from various line items as needed for departments and offices.

Line Item: 500.800.801.70000,001.800.801.50340 various
Line Item Description: Capital Computer Equipment, Computer Software, Various
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No. AUTHORIZING EXPENDITURE OF FUNDS FOR COMPUTER HARDWARE, SOFTWARE AND SERVICES

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Charles Lasky, 630-232-5827

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $900,000
If not budgeted, explain funding source:	

Summary:

This resolution is authorizing the expenditure of funds for computer hardware, software and services through OMNIA for Insight Public Sector, Inc. until April 30th, 2026. The resolution authorizes an amount not to exceed $900,000 per fiscal year.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1149

AUTHORIZING THE KANE COUNTY SHERIFF'S OFFICE PURCHASE OF A BOMB SQUAD X-RAY MACHINE

WHEREAS, the Kane County Sheriff's Office Bomb Squad responds to emergency situations throughout Kane County and Illinois; and

WHEREAS, the Sheriff's Office is in need of an additional X-ray machine due to the large response area ; and

WHEREAS, three quotes have been solicited and received for the purchase of a new Bomb Squad x-ray machine. Staff has reviewed the quotes and recommends the Cuattro Tactical EOD System for a total not to exceed Forty-Two Thousand, Eight Hundred Thirty-Three Thousand Dollars and 00/100 ($42,833.00) through Cuattro Imaging Device R&D, 150 Capital Drive, Suite 280, Golden, CO 80401; and

WHEREAS, the Cuattro Tactical EOD System utilizes the latest technology and permits the Bomb Squad technicians to scan oversized items, therefore enabling them to clear a scene more quickly and efficiently.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board that the Chairman of the Board is authorized and directed to purchase from Cuattro Imaging Device R&D, 150 Capital Drive, Suite 280, Golden, CO 80401, be accepted for the purchase of Cuattro Tactical System in the amount of Forty-Two Thousand, Eight Hundred Thirty-Three Thousand Dollars and 00/100 ($42,833.00), which sum shall be paid from the Bomb Squad Supplies Fund and the Chairman are hereby authorized to enter into an agreement to purchase said equipment at the above-stated price.

Line Item: 001.380.380.60190
Line Item Description: Bomb Squad Supplies
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Authorizing the Kane County Sheriff's Office Purchase of a Bomb Squad X-ray Machine

Committee Flow:
Judicial Public Safety Committee, Finance and Budget Committee, Executive Committee, County Board

Contact:
Christie Duffy 630.208.2001

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $42,833.00
If not budgeted, explain funding source: 001.380.380.60190 Bomb Squad Supplies	

Summary:

This resolution authorizes the Kane County Sheriff's Office purchase of an additional X-ray machine for the Bomb Squad. Over the last year, the Kane County Sheriff's Bomb Squad has been deployed to just under 100 calls in Kane County and throughout Illinois. Due to the large response area, the additional unit will allow the unit to respond to two locations at the same time.

The Bomb Squad X-ray machine will be purchased from the FY24 budget through the Bomb Squad Supplies Fund 001.380.380.60190 for an amount not to exceed $42,833.00.

cuattro DR

wireless

NEW

Tactical EOD System

Introducing the intuitive ultra-portable tactical digital radiography system designed by Cuattro **with** bomb techs, **for** bomb techs.

Product Features:

Automatic Exposure control that works
- Proprietary (patented) AED function with reliable performance even on dense objects
- Fast and Superior Sensitivity (lower noise, higher signal)
- Nearly Zero EMI emissions for safe field operations

Latest Detector Technologies
- Flexible Non-Glass Substrate for substantial increase in durability and ruggedness
- Lightweight (1.7kg with internal batteries))
- Highspeed onboard calibrations (Displayed image in 2-3secs)
- HD resolution (99micron, 5.0 lpm, 16bit grayscale)
- Water and Dust (IP 67 rating with 30 mins of submersion at up to a meter of water)
- Onboard image storage (250 images) in detector memory
- Thin bezel edges (4mm or less on two sides)

Exposure Anytime Technology
- Offline image capture and onboard (in-detector) storage
- Power on detector and expose (with or without acquire device-software)
- No need to be connected to tablet to capture images
- Automatically pushes images to tablet when available

Long Range Wireless Control and Data
- Long Range wireless technologies
- Control the Generator and the Detector
- Fast Image transfer and display (2-3secs)

Best Image Quality
- HD Image with 99micron pixels giving 5 lpm resolution
- 16 Bit Dynamic range
- Very low dose capable
- High sensitive mode to view very dense objects
- Target-specific multi-frequency image tuning algorithms

When time is not on your side, a reliable, instant, better image can be the difference between life or death. CuattroDR delivers with confidence.

cuattro DR

Tactical EOD Software Features:

Full XTK Integration
- Can be configured on any Windows tablet or laptop but Optimized for SurfaceGO2 Tablets
- Seamless workflow within XTK with downloaded Cuattro Scanner driver
- Full featured Standalone application as well
- Mosaic integration with XTK
- Advance manipulation of images in application before sending to XTK

Generator Integration
- Automatically adjust the exposure window time of detector based on settings
- All models of Golden Engineering Generators
- 5pin and 7pin versions
- 12volt and 20volt versions
- Wireless and wired control from Software
  - Pulse, Trains, Delays, Exposure Control
- System Feedback from 7pin generators
  - Battery, current settings, error codes etc

Quick Set and Shoot workflow
- Super simple and super fast setup
- Only need to hit one button and it is ready
- Programmable User Interrogation presets
- User selects a Device type and the software sets up everything
  - Generator settings, Detector exposure window time and gain, filter type, etc

OnePulse Mode
- Operator can hit one button to take a single pulse survey image
- Detector uses a high sensitivity mode while the generator is set to a single pulse and the image is processed with special filters
- Reduce risk of accidental triggers with low energy exposures

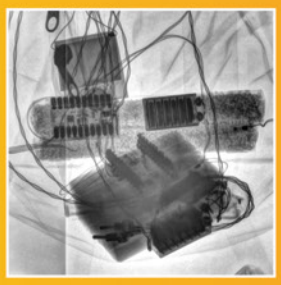
Complete set of Image tools
- Advance Multi-Frequency Image processing tools
- User configurable 5 preset filters
- Hundreds of variations of filters can be achieved depending on the device
- Measurements, Annotations, ROI window level tools

Manage Multiple Detectors in an organization
- Internal Calibration data allows detectors to move between tablets
- Tablets can be pre-configured to utilize all detectors in an organization
- User just selects the detector from a drop-down menu

10x12" Wireless Detector Specifications:
- Model Name SEC-1012
- Detector TFT Type ..... Flexible, Non-Glass Substrate
- Scintillator ..... GadOx
- Pixel Pitch 99micron
- Pixel Matrix ..... 2524 x 3036 pixels
- Image Size ..... 10" x 12" (25.4cm x 31.7cm)
- Grayscale ..... 16bits, 65,355 level of grays
- Image Acquisition Time ..... Wired: 1.5 secs, Wireless: 3secs
- Offline Image Storage ..... 250 Images
- Dimensions ..... 28.7cm x 35.0cm x 1.5cm
- Weight ..... 1.7kg with (Battery installed)
- Water/Dust Intrusion Rating ..... IP 67 (30mins of submersion at 1 meter of depth of water)
- Battery ..... 8hr Internal Lithium 3100 mAh
- Charging Options ..... USB-C Cable or Wireless Charger
- AED (Automatic Exposure Control) ..... Zero EMI Optical trigger
- Dead Space Margins (Bezel thickness) .. 4mm on two sides
- Other Features ..... Accelerometer, Auto-orientation

Microsoft Surface GO2 Tablet Specifications:
- Display ..... 10.5" (1920x1280) Pixel Sense
High Contrast, Superbright
Multi-Touch Screen
Corning Gorilla Glass 3
- Memory ..... 8GB Ram
- Storage ..... 128GB SSD, 64GB eMMC
- Battery Life ..... 10hours with typical use
- Weight ..... 553 grams (1.22 pounds)
- Dimensions ..... 9.65" x 6.9" x 0.33"
- Cameras, Audio, Video ..... 5.0MP front facing, 8MP rear facing, with Dual Mics and 2W Dolby Audio
- Operating System ..... Windows 10 IoT
- Wireless ..... WiFi:IEEE 802.11 a/b/g/n/ac/ax
Bluetooth 3.0
4g LTE Advance (Qualcomm)
GPS

Included Tactical EOD System Accessories:
- Keyboard Protective Cover
- Wireless Mouse and TouchPEN
- Military Grade Protective Tablet Cover
- Generator Serial Cable (5 and 7 pin)
- Detector Cable and System Control Unit
- Carbon Protective Box (tablet and detector) for Tactical Back Pack
- 3 Year Warranty



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Duffy, Christie

From: Wolf, David
Sent: Tuesday, September 5, 2023 3:36 PM
To: Duffy, Christie
Subject: FW: Cuattro Tactical systems
Attachments: 21LT0501_001_CuattroDR_Tactical_EOD_SellSheet_Draft01.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Commander David Wolf #867
Public Safety
S.W.A.T. Commander
630.208.2030
wolfdave@co.kane.il.us
Kane County Sheriff's Office
37W755 Illinois Route 38, Suite A
Saint Charles, IL 60175

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From: Mark Skeels <mskeels@cuattro.com>
Sent: Thursday, July 13, 2023 3:33 PM
To: Wolf, David <WolfDave@KaneCountyIL.gov>
Subject: EX: Cuattro Tactical systems

Good talking with you today. From what I understand you are interested in a Tactical system similar to what the FBI is using now. This is a 10x12 panel, We also have larger ones like the 14x17inch and even much larger than that.

Attached is the brochure for the 10x12 tactical system as well as a quote to start you out. If you decide to go forward with this then I would make you a formal quote and supply a "Sole Source Letter", The system comes with a full day of

training by retired FBI Bomb tech (CAT-A Training), 2 year full support and warranty and extended Loss Warranty on the tablet.

There is also a link for you to see photos of the system Tactical CAse

Call me any time you have any questions.

QTY. (EA)	Family / Type	Mfr Part#		Item Name
1	Software	SEC	003	Cuattro Tactical / Bomb Tech Software
1	Detector	SEC	002	Tactical Wireless, Glass - Free Flat Panel Detector, 25cmx30cm (GOS)
1	Console	SEC	001	Tactical Windows GO3 tablet
1	Accessories	SEC	004G	Tactical Case for 1012 detector and SurfaceGO
1	Accessories	MISC		USB-A to Ethernet, USB-A to USB-C, USB-C Wi-Fi, etc
1	Onsite Training	SEC	027	Onsite Training
1	Warranty	SEC	027	Tablet Extended Warranty
1	Shipping	Shipping		UPS Shipping
	Total	**$42,833.20**		

cuattro

Mark Skeels
Imaging Device R&D
150 Capital Drive, Suite 280
Golden, CO 80401
C: 973.294.4363
mskeels@cuattro.com

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1171

RATIFYING AN EMERGENCY PURCHASE AFFIDAVIT TO PURCHASE A 2023 FORD ESCAPE HYBRID FOR THE BUILDING MANAGEMENT DEPARTMENT

WHEREAS, the Building Management Department has requested and received emergency purchase authorization from the Kane County Board Chairman, pursuant to Kane County Code Chapter 2, Article VI, Division 3, Section 2-217 (A); and

WHEREAS, there is a global supply chain issue impacting the availability, price and ability to purchase vehicles pursuant to the bidding requirements of the Kane County Purchasing Ordinance; and

WHEREAS, the Building Management Department has located one Ford Escape Hybrid at Hennessy's River View Ford of Oswego, Illinois for the amount of $46,733.00.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Emergency Purchase Affidavit, submitted by the Kane County Building Management Department and authorized by the County Board Chairman, is hereby ratified for the purchase of one Ford Escape Hybrid in the amount of Forty-Six Thousand, Seven Hundred and Thirty-Three Dollars ($46,733) from Hennessy's River View Ford 2200 US Highway 30, Oswego, IL 60543.

Line Item: 500.800.805.70070
Line Item Description: Capital Projects. Automotive Equipment
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No.

Ratifying an Emergency Purchase Affidavit to Purchase a 2023 Ford Escape Hybrid for the Building Management Department

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board

Contact: Henry Thompson, 630-762-2174

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $46,733
If not budgeted, explain funding source:	

Summary:

Ratifying an Emergency Purchase Affidavit to purchase a 2023 Ford Escape Hybrid from Hennessy's River View Ford of Oswego in the amount of $46,733.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1170

RATIFYING AN EMERGENCY PURCHASE AFFIDAVIT TO PURCHASE A 2023 FORD ESCAPE HYBRID FOR THE INFORMATION TECHNOLOGIES DEPARTMENT

WHEREAS, the Information Technologies Department has requested and received emergency purchase authorization from the Kane County Board Chairman, pursuant to Kane County Code Chapter 2, Article VI, Division 3, Section 2-217 (A); and

WHEREAS, there is a global supply chain issue impacting the availability, price and ability to purchase vehicles pursuant to the bidding requirements of the Kane County Purchasing Ordinance; and

WHEREAS, the Information Technologies Department has located one Ford Escape Hybrid at Hennessy's River View Ford of Oswego, Illinois for the amount of $43,376.00.

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Emergency Purchase Affidavit, submitted by the Kane County Information Technologies Department and authorized by the County Board Chairman, is hereby ratified for the purchase of one Ford Escape Hybrid in the amount of Forty-Three Thousand, Three Hundred and Seventy-Six Dollars ($43,376) from Hennessy's River View Ford 2200 US Highway 30, Oswego, IL 60543.

Line Item: 500.800.805.70070
Line Item Description: Capital Projects. Automotive Equipment
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution: No.

Ratifying an Emergency Purchase Affidavit to Purchase a 2023 Ford Escape Hybrid for the Information Technologies Department

Committee Flow: Administration Committee, Finance and Budget Committee, Executive Committee, County Board
Contact: Charles Lasky, 630-232-5827

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $43,376
If not budgeted, explain funding source:	

Summary:

Ratifying an Emergency Purchase Affidavit to purchase a 2023 Ford Escape Hybrid from Hennessy's River View Ford of Oswego in the amount of $43,376.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1184

APPROVING THE 2024 HOLIDAY SCHEDULE FOR KANE COUNTY OFFICES

WHEREAS, the proposed 2024 Holiday Schedule for County Offices is attached; and

WHEREAS, the proposed calendar mirrors the calendar adopted by the Chief Judge for the Sixteenth Circuit.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board that the attached holiday calendar for 2024 is hereby adopted for all County offices. County offices will be closed and all business will be handled on the next business date.

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Approving the 2024 Holiday Schedule for Kane County Offices

Committee Flow:
Human Services Committee, Executive Committee, County Board

Contact:
Jamie Lobrillo, 630.208.3836

Budget Information:

Was this item budgeted? N/A	Appropriation Amount: $N/A
If not budgeted, explain funding source: N/A	

Summary:

This resolution approves the 2024 holiday calendar for Kane County Offices.

2024 HOLIDAY SCHEDULE

KANE COUNTY GOVERNMENT

COURT RELATED & NON-COURT RELATED

HOLIDAY:	**OBSERVED ON:**
New Year's Day	Monday, January 1
Martin Luther King, Jr. Day	Monday, January 15
Lincoln's Birthday	Monday, February 12
Washington's Birthday *(OBSERVED)*	Monday, February 19
Spring Holiday	Friday, March 29
Memorial Day	Monday, May 27
Juneteenth Independence Day	Wednesday, June 19
Independence Day	Thursday, July 4
Labor Day	Monday, September 2
Columbus Day *(OBSERVED)*	Monday, October 14
2024 General Election Day	Tuesday, November 5
Veterans' Day	Monday, November 11
Thanksgiving Day	Thursday, November 28
Day Following Thanksgiving Day	Friday, November 29
Christmas Day	Wednesday, December 25

IN THE SIXTEENTH JUDICIAL CIRCUIT
GENERAL ORDER 23-22

Theresa E. Barreiro
Clerk of the Circuit Court
Kane County, IL
AUG 14 2023
FILED 58
ENTERED

IN THE MATTER OF)
AMENDING G.O. 23-19)
2024 COURT LEGAL HOLIDAY)
SCHEDULE)

WHEREAS, the Supreme Court of the State of Illinois having entered an order regarding the court holiday calendar for 2024, and this Court having followed County of Kane established protocol in confirming the anticipated 2024 County holiday schedule;

WHEREFORE IT IS HEREBY ORDERED:

A. The Circuit Court for the Sixteenth Judicial Circuit of the State of Illinois shall adjourn, and the Office of the Clerk of the Circuit Court of the County of Kane shall be closed on the following legal holidays for the year of 2024:

HOLIDAY:	OBSERVED ON:
New Year's Day	Monday, January 1
Martin Luther King, Jr. Day	Monday, January 15
Lincoln's Birthday	Monday, February 12
Washington's Birthday (observed)	Monday, February 19
Spring Holiday	Friday, March 29
Memorial Day	Monday, May 27
Juneteenth Independence Day	Wednesday, June 19
Independence Day	Thursday, July 4
Labor Day	Monday, September 2
Columbus Day (observed)	Monday, October 14
2024 General Election Day	Tuesday, November 5
Veterans' Day	Monday, November 11
Thanksgiving Day	Thursday, November 28
Day Following Thanksgiving Day	Friday, November 29
Christmas Day	Wednesday, December 25

A true copy of the original of this document is on file in my office
Attest: August 14 20 23
Theresa E. Barreiro
Circuit Court Clerk, Kane County, Illinois
By: RMG 158
Deputy Clerk

B. All matters returnable on said legal holidays shall be continued to the next business day of said Court.

C. The time for filing all motions and pleadings shall be extended to the next business day of this Court.

Entered this 14th day of July 2023.

Clint Hull, Chief Judge

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1215

AMENDING FAMILY BEREAVEMENT LEAVE AND CHILD EXTENDED BEREAVEMENT LEAVE POLICY WITHIN THE KANE COUNTY PERSONNEL POLICY HANDBOOK

WHEREAS, the Human Service Committee from time to time recommends that changes be made to the Kane County Personnel Policy Handbook to update policies and guidelines and stay compliant with applicable laws and regulations; and

WHEREAS, This is in response to a legislative change. The Child Bereavement Act was updated to the Family Bereavement Act.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board that the Family Bereavement Leave Policy in the Kane County Policy Handbook is amended as set forth below effective December 1, 2023.

FAMILY BEREAVEMENT LEAVE AND CHILD EXTENDED BEREAVEMENT LEAVE

POLICY

It is the policy of Kane County to provide employees the leave needed for bereavement in compliance with the Illinois Family Bereavement Leave Act, 820 ILCS 154/1, *et seq*. This policy is not intended to provide leave in addition to what that Act requires.

FAMILY BEREAVEMENT LEAVE

ELIGIBILTY

All full-time and part-time employees who have worked at least 1,250 hours during the twelve (12) months preceding the leave and who have completed twelve (12) months of service are eligible to take Family Bereavement Leave.

GUIDELINES

A. Use: Eligible employees are entitled to a maximum of 2 weeks (10 workdays) of unpaid leave to:
   1. Grieve;
   2. Attend the funeral or alternative to a funeral of a covered family member;
   3. Make arrangements necessitated by the death of the covered family member; or
   4. Be absent from work due to:
      i. A miscarriage;
      ii. An unsuccessful round of intrauterine insemination or of an assisted reproductive technology procedure;
      iii. A failed adoption match or an adoption that is not finalized because it is contested by another party;
      iv. A failed surrogacy agreement;
      v. A diagnosis that negatively impacts pregnancy or fertility;
      vi. A stillbirth.

B. A "covered family member" is defined as an employee's child, stepchild, spouse, domestic partner, sibling, parent, mother-in-law, father-in-law, grandchild, grandparent, or stepparent.

C. Family Bereavement Leave time must be completed within 60 days after the date the employee receives notice of the event specified in Paragraph A. Employees must give at least 48 hours' notice to their supervisor or department head before taking Family Bereavement Leave, unless not reasonable or practicable. In order to be granted Family Bereavement Leave, the employee must complete a leave of absence request form and be approved by their Department Head.

D. Employees are entitled to a maximum of 6 weeks of Family Bereavement Leave if they experience more than one event as specified in Paragraph A during a 12-month period. An employee may not take Family Bereavement Leave that exceeds the leave time allowed under, nor in excess of, the leave time permitted by the Family and Medical Leave Act.

E. The County may require reasonable documentation to support the need for Family Bereavement Leave. Reasonable documentation may include but it not limited to:

- Death Certificate;
- Published Obituary;
- Written verification of death, burial, or memorial services from a mortuary, funeral home, burial society, crematorium, religious institution, or government agency;
- Family Bereavement Leave Act 10(a)(4) Leave Form

F. Employees eligible to use accrued paid benefit time such as sick, personal, vacation, and funeral time may elect to substitute any period of such paid leave for an equal period of unpaid leave as provided for in this policy.

CHILD EXTENDED BEREAVEMENT LEAVE

ELIGIBILTY

All active full-time employees who have worked for the County for at least two weeks.

GUIDELINES

A. Use: Eligible employees are entitled to a maximum of 12 weeks in the event of the death by homicide or suicide of the employee's: biological, adopted, or foster child; stepchild; legal ward; or child of an employee standing in loco parentis.

B. Leave taken under this section may be taken in a single continuous period or intermittently in increments of no less than 4 hours, but leave must be completed within one year after the employee notifies the County of the loss.

C. The County requests reasonable notice advance notice of the employee's intention to take leave, unless providing such notice is not reasonable and practicable.

D. The County may require reasonable documentation to support the need for Child Extended Bereavement Leave. Reasonable documentation must include cause of death and may include but it not limited to:

- Death Certificate;
- Published Obituary;
- Written verification of death, burial, or memorial services from a mortuary, funeral home, burial society, crematorium, religious institution, or government agency;

E. An employee who is entitled to take paid or unpaid leave (sick, vacation, personal, or similar leave) from employment, pursuant to federal, State, or local law, a collective bargaining agreement, or an employment benefits program or plan may elect to substitute any period of such paid leave for an equivalent period of leave provided under this section.

Passed by the Kane County Board on October 10, 2023

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Amending Family Bereavement Leave Policy Within The Kane County Personnel Policy Handbook

Committee Flow:
Human Services Committee, Executive Committee, County Board

Contact:
Jamie Lobrillo, 630.208.3836

Budget Information:

Was this item budgeted? N/A	Appropriation Amount: $N/A
If not budgeted, explain funding source: N/A	

Summary:

Amending the Family Bereavement Leave and Child Extended Bereavement Leave Policy within the Personnel Policy Handbook in response to a statutory change.

General LOA Policy	Family Bereavement Leave and Child Extended Bereavement Leave
Effective Date: December 1, 2023 **Last Amended Date:** December 10, 2019	**Applicable Law/Statute:** Family Bereavement Leave Act 820 ILCS 154/ Family and Medical Leave Act of 1993 Child Extended Bereavement Act 820 ILCS 154/35

FAMILY BEREAVEMENT LEAVE AND CHILD EXTENDED BEREAVEMENT LEAVE

POLICY

It is the policy of Kane County to provide employees the leave needed for bereavement in compliance with the Illinois Family Bereavement Leave Act, 820 ILCS 154/1, *et seq*. This policy is not intended to provide leave in addition to what that Act requires.

FAMILY BEREAVEMENT LEAVE

ELIGIBILTY

All full-time and part-time employees who have worked at least 1,250 hours during the twelve (12) months preceding the leave and who have completed twelve (12) months of service are eligible to take Family Bereavement Leave.

GUIDELINES

A. Use: Eligible employees are entitled to a maximum of 2 weeks (10 workdays) of unpaid leave to:
   1. Grieve;
   2. Attend the funeral or alternative to a funeral of a covered family member;
   3. Make arrangements necessitated by the death of the covered family member; or
   4. Be absent from work due to:
      i. A miscarriage;
      ii. An unsuccessful round of intrauterine insemination or of an assisted reproductive technology procedure;
      iii. A failed adoption match or an adoption that is not finalized because it is contested by another party;
      iv. A failed surrogacy agreement;
      v. A diagnosis that negatively impacts pregnancy or fertility;
      vi. A stillbirth.

B. A "covered family member" is defined as an employee's child, stepchild, spouse, domestic partner, sibling, parent, mother-in-law, father-in-law, grandchild, grandparent, or stepparent.

C. Family Bereavement Leave time must be completed within 60 days after the date the employee receives notice of the event specified in Paragraph A. Employees must give at least 48 hours' notice to their supervisor or department head before taking Family Bereavement Leave, unless not reasonable or practicable. In order to be granted Family Bereavement Leave, the employee must complete a leave of absence request form and be approved by their Department Head.

D. Employees are entitled to a maximum of 6 weeks of Family Bereavement Leave if they experience more than one event as specified in Paragraph A during a 12-month period. An employee may not take Family Bereavement Leave that exceeds the leave time allowed under, nor in excess of, the leave time permitted by the Family and Medical Leave Act.

E. The County may require reasonable documentation to support the need for Family Bereavement Leave. Reasonable documentation may include but it not limited to:
   - Death Certificate;
   - Published Obituary;
   - Written verification of death, burial, or memorial services from a mortuary, funeral home, burial society, crematorium, religious institution, or government agency;

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- Family Bereavement Leave Act 10(a)(4) Leave Form

F. Employees eligible to use accrued paid benefit time such as sick, personal, vacation, and funeral time may elect to substitute any period of such paid leave for an equal period of unpaid leave as provided for in this policy.

CHILD EXTENDED BEREAVEMENT LEAVE

ELIGIBILTY

All active full-time employees who have worked for the County for at least two weeks.

GUIDELINES

A. Use: Eligible employees are entitled to a maximum of 12 weeks in the event of the death by homicide or suicide of the employee's: biological, adopted, or foster child; stepchild; legal ward; or child of an employee standing in loco parentis.

B. Leave taken under this section may be taken in a single continuous period or intermittently in increments of no less than 4 hours, but leave must be completed within one year after the employee notifies the County of the loss.

C. The County requests reasonable notice advance notice of the employee's intention to take leave, unless providing such notice is not reasonable and practicable.

D. The County may require reasonable documentation to support the need for Child Extended Bereavement Leave. Reasonable documentation must include cause of death and may include but it not limited to:
   - Death Certificate;
   - Published Obituary;
   - Written verification of death, burial, or memorial services from a mortuary, funeral home, burial society, crematorium, religious institution, or government agency;

E. An employee who is entitled to take paid or unpaid leave (sick, vacation, personal, or similar leave) from employment, pursuant to federal, State, or local law, a collective bargaining agreement, or an employment benefits program or plan may elect to substitute any period of such paid leave for an equivalent period of leave provided under this section.

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Illinois Department of Labor
Conciliation and Mediation Division
160 N. LaSalle St., Suite #C-1300
Chicago, Illinois 60605
312-793-6797

Family Bereavement Leave Act 10(a)(4) Leave Form

FAMILY BEREAVEMENT LEAVE ACT (820 ILCS 154)
10(a)(4) LEAVE FORM

Section 10(a)(4) of the Family Bereavement Leave Act (820 ILCS 154/10(a)(4)) provides eligible employees up to 10 days of unpaid leave time for events related to pregnancy, adoption, and surrogacy. An employer may request reasonable documentation certifying that the employee, the employee's spouse or domestic partner, or the employee's surrogate experienced an event that qualifies for leave under Section 10(a)(4) of the Act; however, an employer *may not* require the employee to identify which category of event the leave pertains to as a condition of exercising rights under the Act. In accordance with 820 ILCS 154/10(d), this form is provided by the Illinois Department of Labor for documentation of 10(a)(4) bereavement leave.

Employee Information (*This section to be completed by employee*)

Employee Name: _____

Employer Name: _____

This form is to serve as certification for (*check one*):
☐ **Myself**
☐ **My Spouse / Domestic Partner / Surrogate**

CERTIFICATION

Instructions: This section is to be filled out by a health care practitioner or a representative from an adoption or surrogacy organization. Please ***do not*** indicate which event the individual has experienced.

Certification For: _____
(Name of Individual)

I, the undersigned, am (*check one*):

☐ A health care practitioner; I treated the above-named individual for a qualifying event under Section 10(a)(4).
☐ A representative from an adoption or surrogacy organization; I worked with the above-named individual related to a qualifying event under Section 10(a)(4).

I certify that the above-named individual experienced a qualifying event under Section 10(a)(4) of the Family Bereavement Leave Act (Public Act 102-1050).[1]

Date Qualifying Event Began: _____/_____/_____ (*If exact date is unknown, provide approximate date based on your professional opinion*)
Month Day Year

_____ _____
Signature of Health Care Practitioner /Representative from Adoption or Surrogacy Organization — Date

_____ _____
Printed Name — Entity/Organization Name

[1] The following events qualify for bereavement leave under 820 ILCS 154/10(a)(4): (i) miscarriage, (ii) unsuccessful intrauterine insemination or assisted reproductive technology procedure; (iii) failed adoption match or adoption not finalized because it is contested; (iv) failed surrogacy agreement; (v) a diagnosis that negatively impacts pregnancy or fertility; or (vi) stillbirth.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1242

ADOPTING THE COMPENSATION AND POSITION MANAGEMENT POLICY WITHIN THE KANE COUNTY PERSONNEL POLICY HANDBOOK

WHEREAS, the Human Service Committee from time to time recommends that additions be made to the Kane County Personnel Policy Handbook to provide guidance and establish procedures for County departments to ensure compliance with all applicable regulations; and

WHEREAS, a policy is needed to establish and maintain competitive salary ranges consistent with the economic/budgetary requirements of the County which will allow the County to effectively compete for qualified personnel, retain productive employees, and ensure that salaries are transparent, equitable, and commensurate with the duties performed by each employee.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board that the Compensation and Position Management Policy as set forth as “Exhibit A” is hereby added to the Kane County Personnel Policy Handbook.

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Adopting The Compesensation And Position Management Policy Within The Kane County Personnel Policy Handbook

Committee Flow:
Human Services Committee, Executive Committee, County Board

Contact:
Jamie Lobrillo, 630.208.3836

Budget Information:

Was this item budgeted? N/A	Appropriation Amount: $N/A
If not budgeted, explain funding source: N/A	

Summary:

Adopting the Compsendation and Position Management Policy within the Personnel Policy Handbook to establish and maintain competitive salary ranges.

Compensation Policy			
Effective Date: TBD **Last Amended Date:** N/A	**Applicable Law/Statute:**	**Source Doc/Dept.:**	**Authorizing I.C. Sec:**

Compensation and Position Management

Policy

It is the policy of Kane County to establish and maintain competitive salary ranges consistent with the economic/budgetary requirements of the County which will allow the County to effectively compete for qualified personnel, retain productive employees, and ensure that salaries are transparent, equitable, and commensurate with the duties performed by each employee.

Eligibility

This policy applies to all regular, full-time and part-time employees under the jurisdiction of the County Board not covered by a collective bargaining agreement, statute, ordinance, or employment contract.

This policy does not apply to appointed or elected officials with internal control or their employees unless the official has opted into the County's salary and grade system and adopted this policy in writing prior to the adoption of the annual budget, and such option is effective for the duration of the budget year.

Guidelines

A. Position Analysis: For each position, the appropriate Position Analysis form will be completed describing all the pertinent factors relating to the position. The department head or participating elected official must sign the form and submit it to the Human Resources Department, where it will be evaluated using an assigned grade pursuant to Kane County's job classification system. The Human Resources Director will notify the department head or participating elected official of the final rating.

B. Job Descriptions: Job descriptions shall be maintained by the Human Resources Department for all positions (full-time, part-time, seasonal and temporary). Job descriptions will be developed by the Human Resources Department, in consultation with the department head, from the completed Position Analysis form. Participating elected officials shall forward complete job descriptions to the Human Resource Department.
    1. Job descriptions will contain a summary description of the position and essential duties performed by incumbents, as well as list the knowledge, skills, and abilities an employee should have in order to successfully complete the essential duties of the position. Relevant working conditions of the position shall also be included. Examples of duties listed in the job description are intended only as illustrations of the various types of work performed. The omission of specific duties does not exclude them from the job if the work is similarly related or a logical assignment to the position.
    2. The job description does not constitute an employment agreement between the County and the employee and is subject to change as the needs of the County and

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the requirements of the position change.

C. New Positions:
   1. All new positions should be planned for and submitted to the Human Resources Director and the Finance Director during the budget process. Priority will be given to requests responding to new mandated service or presented in the context of a reorganization that enhances customer service and/or reduces the overall cost of doing business.
   2. Mid-year requests for new positions will be considered on a case-by-case basis, and must have a position analysis or completed job description and grading prior to being presented to the Board or its Committees for approval. New positions must be approved by the standing committee to which the department reports, the Human Services Committee, the Finance and Budget Committee, Executive Committee, and the County Board.
   3. New position and reclassification requests submitted during the budget process must be position specific to be considered for funding. If funding is approved during the budget process and the department or participating office wishes to use the funding in any manner other than the position requested and approved, a resolution authorizing the change will be required by the County Board prior to the change taking place.

D. Grade and Salary Range System: The Human Resources Department shall maintain a job grade and salary range system which contains an inventory of jobs, designated by title, within the various classifications existing at the County. The Classification System consists of a grouping of similar positions into categories of substantially similar complexity and responsibility and general qualifications. All positions will be evaluated and classified in order of their relative value. The following factors will be used in the establishment and maintenance of the County's classification system:
   1. The County is committed to maintaining a salary structure, consisting of position grades and salary ranges that will allow the County to ensure that salaries/wages are equitable and commensurate with the duties performed by employees.
   2. All position grades will have a salary/wage range that indicates their minimum, midpoint, and maximum monetary value. Salary ranges should be broad enough to provide salary/wage growth for competent personnel.
   3. Salary Ranges will be reviewed by the Human Services Committee from a competitive standpoint based on prevailing trends (salary survey data and economic indicators) and the County's ability to pay on an annual basis. Market trends and comparisons will be provided by the Human Resources Department and appropriate changes will be recommended by the Human Services Committee and approved by the County Board.
   4. All new employees will normally be paid the minimum rate in the appropriate salary range. However, the County recognizes that department heads and participating elected officials may need flexibility during the hiring process to recruit qualified candidates. The recognition of extraordinary experience or qualifications, labor market demands, or other qualifications of the candidate may justify a higher rate of pay, subject to the following conditions:

Hiring Range	**Approval Required**
Minimum to 1st Quartile	Department Head/Elected Official
1st Quartile to Midpoint	Human Resources Department

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Over Midpoint	Human Services Committee

Salary increases for new hires planned upon completion of a probationary period or achievement of a certification or other required element are permitted as long as such arrangement is put in writing at hire and the total salary including planned increase is within budget and follows the starting wage guidelines as indicated in the table above.

E. Vacant Positions:
   1. If a position becomes vacant, steps must be taken to fill the position as soon as practical. If a department or participating office has a bona fide reason to delay hire, such reason must be submitted to the Human Resource Department in writing within 30 days of the position being vacated and must include a description of how the duties will be maintained during the vacancy.
   2. If a department or participating office has difficulties filling a vacant position due to a lack of qualified candidates after 90 days of advertisement, the department or participating office shall inform Human Resources in writing, so that Human Resources may expand the recruitment efforts and, if needed, re-evaluate the salary and/or grade for the position.
   3. If any vacancy in a department or participating office exists in excess of 180 days and the aforementioned recruitment steps have not been taken by the department or participating office, the position will be subject to review in the next budget process.
   4. Budget is allocated based on position, and not the employee in the position. If budget savings from a vacant position occurs and the department or participating office uses that savings in any manner other than outlined in this policy without prior County Board approval, the unfilled position may be re-evaluated in the next budget process.

F. Promotions: For purposes of this policy, promotion is considered movement into a job classification that is at least one salary grade higher than the employee's current position. At the time of promotion, an employee is normally eligible for a salary adjustment based upon the following considerations:
   1. The employee's performance history. If the employee is transferring departments, a completed performance appraisal should be completed by the former department for file and submission to the new department;
   2. The experience level of the employee with the duties of the new position;
   3. The amount of additional responsibility, including education and training required for the new position;
   4. The location of the employees' current salary in the new salary range;
   5. Equal pay within the County to ensure that employees with similar positions, skill sets, and experience are paid similarly;
   6. The budgetary constraints of the department;
   7. A one-grade promotion normally results in a salary increase 5% of the employee's current salary. If the minimum of the new salary range is higher than the proposed increase, the employee shall be moved to at least the new minimum of the salary range and not more than the first quartile of the new salary range. In no case can the increase exceed the budgeted amount of the position the employee is being promoted into without approval of the County Board.
   8. In the event the promotion is into a position that is two grades or more above the

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employee's current position, salary will be determined by the department head or participating elected official in consultation with the Human Resources Department, and in no case be less than the minimum salary for the range or more than the budgeted salary for the position without approval of the County Board.

9. In accordance with County Code 2-48, all Department Head salaries must be set and approved by the County Board.
10. In the event of internal promotion is due to receipt of licensure or certification into a professional position requiring same licensure or certification, the annual salary may be allowed over the normal increase as set forth in Section F6, but not to exceed the first (1st) quartile of the new salary grade. The salary will be determined by the department head or participating elected official in consultation with the Human Resource Department.
11. Employees who receive a promotional increase (mid-year adjustment) during the current fiscal year will not be eligible for a merit increase for the following year unless they have completed at least 6 months in the new position as of December 1st.

G. Transfers: A transfer is defined as a reassignment of an employee from a position in one pay range to another position in the same pay range. The employee will retain the same rate of pay regardless if the transfer entails a change of departments, unless the new position is covered by a collective bargaining agreement, in which case the collective bargaining agreement will determine the new salary. A completed performance appraisal will be required anytime an employee is transferred.

H. Demotion: A demotion is defined as an assignment to a position in a lower salary range regardless of the reasons for the change. A completed performance appraisal will be required anytime an employee is demoted. If the demotion is not voluntary, every effort will be made to maintain the current salary of the employee, subject to the budgetary constraints of the new position. If the demotion is voluntary, the salary adjustment will never be less than the minimum of the new range assignment nor be greater than the salary before demotion. The appropriate salary will be determined by the department head or participating elected official in consultation with the Director of Human Resources.

I. Trainee Status: If an applicant does not fully meet the minimum educational or certification requirements (but will within six (6) months of hire), the applicant may be hired at up to 10% below the minimum of the salary range. Once the applicant has met the minimum requirements, they will be brought to the minimum of the salary range. The applicant will not be eligible for a merit increase during the trainee status period.

J. Reclassification: A position that is reevaluated (following the job evaluation protocol as established in Section A) and moves into a higher salary grade will be considered a promotion and normally results in a salary increase not to exceed 6% of the employee's current salary. If the minimum of the new salary range is higher than the proposed promotional increase, the employee shall be moved to the new minimum of the salary range. A position that is reevaluated (following the job evaluation protocol as established in Section A) and moved into a lower salary grade will not be considered a demotion, but the incumbent employee's salary will be limited by the salary range of that grade.
    1. In accordance with established practice, all requests for position reclassifications (following the job evaluation protocol as established in Section A) should be planned for and submitted to the Executive Director of Human Resources

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Management and the Executive Director of the Finance Department during the budget process.

2. Mid-year requests for reclassifications must follow the following the job evaluation protocol as established in Section A and any resulting reclassifications must be approved by the Human Services Committee, The Finance and Budget Committee, Executive Committee, and the County Board.

K. Salary Adjustments, Stipends, and Lump-Sum Distributions: Salary increases must not be presented or promised to employees until they have been approved as processed in accordance with the guidelines established in this policy. For department heads and participating elected officials who wish to seek a salary adjustment, stipend, or lump sum distribution outside of the guidelines established in this policy during the fiscal year, a resolution will be required to be presented to the Human Services Committee, the Finance and Budget Committee, Executive Committee, and the County Board requesting said adjustment, stipend, or lump sum distribution. Once board approved, the department head or participating elected official should submit a payroll action form to the Human Resources Department with a copy of the approved resolution.

L. Temporary Assignment Pay: In the event of a vacancy, employees may receive a temporary assignment pay in the form of temporary salary increase to cover increased duties of the vacant position when such coverage is documented as to the bona fide increased workload or responsibility. Total temporary assignment pay increase shall not exceed the budget savings from the vacancy, and shall terminate when the position is no longer vacant. Documentation supporting the additional workload and/or responsibility and the amount of the temporary assignment pay must accompany the Payroll Action Form and shall be retained in the employee file maintained by Human Resources.

M. Performance appraisals: The County established performance appraisal system is a mechanism to document and measure individual job performance, to promote individual job knowledge, and skill development for career advancement and are subject to the following provisions:

1. A formal performance appraisal shall be conducted for all employees on an annual basis. However, management staff is encouraged to provide both positive and corrective feedback on an ongoing basis to the employees they supervise.
2. A completed performance appraisal will be required in the submission of any employee promotion, transfer, demotion, or mid-year salary adjustment.
3. The completed performance appraisal document will become a part of the employees permanent personnel file maintained in the Human Resources Department.

N. Merit increase system: The County has adopted a merit increase system to implement a pay-for-performance policy subject to the following provisions:

1. While position evaluation determines the relative value of the position to the organization, and while performance appraisal determines the level of employee job performance, the merit system determines the level of employee reward for performance. Merit increase pools will be established annually as a part of the budgetary process.
2. The merit pool amount will be recommended by the Executive Director of the Finance Department in consultation with the Executive Director of Human Resources Management for the approval of the County Board based first on

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budget considerations and then on competitive market conditions. Merit pools will be calculated and distributed based on salaries and/or headcount eligible for a merit increase within the department or participating elected office.

3. To eliminate confusion in the calculation of merit dollars for departments or participating offices, reclassifications and associated salary adjustments will not be considered during October and November of each year.
4. Merit pool may be distributed to eligible staff pursuant to the following guidelines:
    a. Performance appraisals for all departmental staff must be conducted and sent to the Human Resources Department along with or prior to any merit increases.
    b. Participating elected offices must conduct and retain a performance appraisal for employees to give a merit increase, but may elect to provide the Human Resources Department with a memo indicating appraisal was completed in lieu of a copy of the appraisal. Offices electing this option must retain the appraisals in their internal files and comply with all applicable laws and regulations regarding retention and review of personnel files.
    c. Merit increases may be effective at any time during the fiscal year, however annualized merit increases must not exceed the annual merit increase pool provided to the department or participating office.
    d. Employees who have reached the top of their position's salary range are still eligible for merit-based performance recognition. The amount of such recognition will be established by the department head or participating elected official, taking into consideration that the expectations of an employee with a long tenure at the top of their range are greater. Any amount of merit recognition assigned will be paid to the employee in two equal lump sums at the one-month and seven-month point in the fiscal year.

O. Job Grade Review Process: Department heads or participating elected officials may request the Human Resources Department re-evaluate the grade of a position if, in their opinion, there has been a significant change in job duties, responsibilities and/or qualifications of the position. However, the same position will not be evaluated more than once in any 12-month period. The job evaluation process is as follows:

1. The department head or participating elected official will review the current job description form to ensure that the duties and responsibilities are accurately described.
2. Minor additions/revisions can be written in the margin of the existing Job Description.
3. Major revisions require a supplemental sheet or the completion of a new Position Analysis Form.
4. Department head or participating elected official shall submit the revised analysis and supporting comments and recommendations to the Human Resources Department.
5. The Human Resources Department will collaborate with department or office staff as needed to establish and communication appropriate new grade and range.

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STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1148

AUTHORIZING THE RE-APPOINTMENT OF TODD ZIES TO THE KANE COUNTY SHERIFF'S OFFICE MERIT COMMISSION

WHEREAS, the Kane County Sheriff's Office Merit Commission was created in the county of Kane, Illinois, to be known as the Kane County Sheriff's Office Merit Commission. (Ord. 66-23, § I, 2-8-1966; Ord. 06-324, § 2, 8-8-2006); and

WHEREAS, the Sheriff's Merit Commission has the authority and responsibility to promulgate rules, regulations, and procedures for the operation of the merit system and is hereby authorized to provide in said rules, regulations, and procedures for the orderly appointment of Sheriff's deputies and officers; and

WHEREAS, the Commission shall consist of three (3) members appointed for terms of six (6) years each; and

WHEREAS, Merit Commission member Todd Zies has recently completed a term on said Commission, and the Sheriff would like to re-appoint Mr. Zies to another term.

NOW, THEREFORE, BE IT RESOLVED that the Kane County Board authorizes the re-appointment of Todd Zies to the Kane County Sheriff's Office Merit Commission to complete a six-year term expiring August 1, 2028.

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

AUTHORIZING THE RE-APPOINTMENT OF TODD ZIES TO THE KANE COUNTY SHERIFF'S OFFICE MERIT COMMISSION

Committee Flow:
Judicial Public Safety Committee, Executive Committee, County Board

Contact:
Elizabeth Richards, 630.444.1137

Budget Information:

Was this item budgeted? N/A	Appropriation Amount: $N/A
If not budgeted, explain funding source: N/A	

Summary:

Requesting the authorization of the re-appointment of Todd Zies to the Kane County Sheriff's Office Merit Commission for an additional six-year term ending August 1, 2028.

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1261

APPROVING A CONTRACT FOR PURCHASE OF WETLAND MITIGATION CREDITS WITH V3 WETLAND RESTORATION, LLC OF WOODRIDGE, ILLINOIS FOR BUNKER ROAD EXTENSION, KANE COUNTY SECTION NO. 14-00275-01-PV

WHEREAS, it is deemed to be in the best interest of the County of Kane and the motoring public to undertake a project to extend Bunker Road (hereinafter the "Improvement"); and

WHEREAS, approximately 1.367 acres of existing wetlands will be disturbed by the construction of the improvement; and

WHEREAS, in order to mitigate the impact of the disturbed wetlands the US Army Corp of Engineers' (USACE), requires the replacement of the 1.367 acres of disturbed wetlands by the County of with 2.05 acres of new wetland (hereinafter the "wetland credit") to be purchased from a USACE approved wetland mitigation bank; and

WHEREAS, V3 Wetland Restoration, LLC, ("V3") operates an USACE approved wetland mitigation bank, with at least 2.05 acres of available wetland credits appropriate for the mitigation of wetland impacts caused by the Improvement, which V3 desires to sell and the County desires to purchase for an amount not to exceed Three Hundred Forty Eight Thousand Five Hundred Dollars ($348,500.00) as set forth in the Wetland Credit Purchase Agreement (on file in the office of the County Clerk).

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Wetland Credit Purchase Agreement is hereby approved and the Chairman thereof is hereby authorized to execute an agreement with V3 Wetland Restoration, LLC for the purchase of the wetland credits for the mitigation of disturbed wetlands caused by the construction of the Improvement.

BE IT FURTHER RESOLVED that the Kane County Board appropriates a not to exceed sum of Three Hundred Forty Eight Thousand Five Hundred Dollars ($348,500.00) to pay for said wetland credits and that said funds be paid from Central Impact Fee Fund #559, Line Item #73000 Road Construction.

Line Item: 559.520.559.73000
Line Item Description: Road Construction
Was Personnel/Item/Service approved in original budget or a subsequent budget revision? Yes
Are funds currently available for this Personnel/Item/Service in the specific line item? Yes
If funds are not currently available in the specified line item, where are the funds available? N/A

Passed by the Kane County Board on October 10, 2023.

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois

Vote:

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Approving a Contract for Purchase of Wetland Mitigation credits with V3 Wetland Restoration, LLC of Woodridge, Illinois for Bunker Road Extension, Kane County Section No. 14-00275-01-PV

Committee Flow:
Transportation Committee, Executive Committee, County Board

Contact:
Jennifer O'Connell, 630.406.7333

Budget Information:

Was this item budgeted? Yes	Appropriation Amount: $348,500.00
If not budgeted, explain funding source: N/A	

Summary:

As with any roadway or bridge improvement, design alternatives are considered to avoid and minimize impacts to adjacent existing wetlands. If wetland impacts are unavoidable, a permit from the United States Army Corps of Engineers (USACE) is required and wetland mitigation is necessary. For the Bunker Road Extension project, the wetland impacted by the project must be mitigated and the USACE has required jurisdictional mitigation credits at a ratio of 1.5:1 for this project as follows:

- 1.367 acres of impact at a 1.5:1 mitigation ratio = 2.05 wetland credits (acres)

A total of 2.05 credits (or acres) must be purchased at a price of $170,000 per acre to mitigate for the 1.367 acres of wetlands that are impacted by this project. The Gray Willows Mitigation Bank is building a waitlist for projects for when they will have credits that will become available for purchase later this fall. Staff recommends approval of an agreement and appropriation request in the amount of $348,500.00 in order to purchase the necessary wetland mitigation credits.

Staff recommends approval.

GRAY WILLOWS WETLAND MITIGATION BANK
WETLAND CREDIT PURCHASE AGREEMENT

THIS CREDIT PURCHASE AGREEMENT ("Agreement") is made as of this 25th day of October, 2023, by and between V3 Wetland Restoration, L.L.C., an Illinois limited liability company ("Seller") and the County of Kane ("Buyer"). The Buyer and the Seller are collectively referred to as the "Parties" and each individually as a "Party".

WHEREAS, the Chicago District of the United States Army Corps of Engineers (the "USACE"), United States Environmental Protection Agency, and United States Fish and Wildlife Services (collectively, the "Federal Regulatory Agencies") have signed the June 2008 Interagency Coordination Agreement on Wetland Mitigation Banking within the Regulatory Boundaries of the Chicago District, Corps of Engineers (the "ICA") providing for the issuance of permits in northeast Illinois to establish wetland mitigation banks to mitigate for the filling, flooding, excavating or draining of specific waters of the United States; and

WHEREAS, Seller received the approval for the Gray Willows Wetland Mitigation Bank in Kane County (the "V3 Mitigation Bank") in accordance with the ICA and the COE permit issued in connection with said ICA, USACE Permit No. LRC-2016-183 (the "Bank Permit"), which permit approved the release of wetland mitigation credits for sale;

WHEREAS, Buyer requires a permit from the US Army Corps of Engineers (the "Permitting Agency") for the Bunker Road Extension Project (the "Project"), located in Kane County, which will result in impacts to 1.367 acres of wetland and which requires the purchase of 2.05 acres of wetland mitigation credits ("Credits");

WHEREAS, Buyer desires to commit to the purchase 2.05 acres of Credits from the V3 Mitigation Bank in accordance with the terms of the Agreement;

NOW, THEREFORE, in consideration of the foregoing recitals for the mutual promises contained herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Seller and Buyer hereby agree as follows:

1. The Parties acknowledge and agree that the above stated preambles are incorporated into this Agreement and made a part hereof.

2. Seller warrants that it has constructed and will monitor the V3 Mitigation Bank in accordance with the terms of the ICA and Bank Permit. Seller hereby further represents and warrants to Buyer as follows:

    (a) Seller is currently in compliance with the terms of the ICA and the Bank Permit;

    (b) Seller has the pending release of up to 18.488 Credits available for sale later in 2023 that will satisfy the requirements of the Permitting Agency; and

    (c) Seller may sell such Credits to Buyer pursuant to the terms of the ICA and the Bank Permit.

3. Seller agrees to sell and Buyer agrees to purchase the Credits as pursuant to the following terms:

(a)	Price Per Credit:	$170,000.00
(b)	Acres Impacted:	1.367
(c)	Mitigation Ratio:	1:1.5
(d)	Total Credits Purchased:	2.05
(e)	Total Purchase Price:	$348,500.00
(f)	Agency Permit No.:	LRC-2016-489
(g)	Mitigation Bank:	V3 Mitigation Bank

4. It is understood and acknowledged that once approved by both Parties, this Agreement constitutes an irrevocable commitment on the part of the Buyer to purchase and an irrevocable commitment on the part of Seller to sell, 2.05 Credits to the Buyer at the purchase price set forth above in paragraph No. 3 for Project wetland mitigation. Upon receipt of payment, the number of Seller's credits available for sale shall be forever reduced by 2.05.

4. A deposit Option if required to hold wetland credits**.** Buyer acknowledges and understands that the Seller has expended substantial sums in connection with the formation and construction of the V3 Mitigation Bank. As an inducement to Seller to proceed, Buyer shall pay to Seller a non-refundable earnest money deposit ("Earnest Money") of 10% of Total Purchase Price, ($34,850.00), within 45 days of the execution of this Agreement. Said deposit shall be applied to the purchase price ($348,500) if the purchase of Credits by Buyer, as contemplated by the Agreement, is consummated. If said purchase is not consummated by the Expiration Date (as defined below), Seller shall be free to retain said deposit as liquidated damages. In the event of a default by Seller, Buyer shall be entitled to the return of the Earnest Money.

5. Upon notification from the Permitting Agency that the mitigation credits have been released and are acceptable for the Project, Buyer shall pay Seller the remaining 90% of the Purchase Price, ($313,650.00).

6. Within fifteen (15) days of receipt of payment from Buyer, Seller will provide to Buyer a Payment Verification Letter and the Mitigation Bank Credit Sales Form which can be provided directly to the Agency.

7. If within forty-five (45) days of the date of execution of this Agreement as provided in the signature block of this Agreement, the Buyer has not paid the purchase price to Seller, at any time thereafter either party may terminate this Agreement by written notice to the other party. Upon receipt of said written notice, the Buyer shall have fifteen days thereafter to tender payment to the Seller. Thereafter either party shall have right to terminate this Agreement. This Agreement may be extended upon approval of both parties.

8. By execution of the Agreement, Seller and Buyer agree to comply with all rules and regulations of the regulatory bodies in connection with the Credits purchased pursuant to this Agreement.

9. The rights of Buyer under this Agreement shall not be assigned, conveyed, transferred, pledged, encumbered or in any way restricted without consent of Seller; provided, however, that Buyer may assign its rights hereunder, without the consent of, but with notice to, Seller, to any entity which is directly or indirectly controlled or under common control with Buyer, or to any entity which shall engage Buyer to develop the Project, or to any entity which is the ultimate intended user or operator of the Project as developed.

10. All notices to the parties pursuant to this Agreement shall be personally delivered, sent by facsimile transmission or sent by certified mail, return receipt requested, to the following addresses:

If to Seller:	V3 Wetland Restoration, L.L.C. 7325 Janes Avenue Woodridge, Illinois 60517 Attention: Tom Slowinski Phone: 630-724-9200 Email: tslowinski@v3co.com
If to Buyer:	Kane County Engineer Kane County Division of Transportation C/O Attention: Jennifer O'Connell 41W011 Burlington Road St. Charles, Illinois 60175 Phone: 847-931-6152 Email: oconnelljennifer@co.kane.il.us

If any such notice is given by personal delivery, said notice shall be effective upon the date of delivery. If any such notice is sent by email transmission, said notice shall be effective as of the date of proper transmission of said notice. Any email notice shall be followed by a telephone call verifying actual receipt of said email. If any such notice is sent by certified mail, said notice shall be effective on the third business day following the date of mailing. The parties may change the address to which notices are to be sent under this Agreement by written notice to the other party.

11. This Agreement shall inure to the benefit of and be binding upon the parties and their respective successors, representatives and permitted assigns.

12. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same agreement. This Agreement may be executed by a party's signature transmitted by email, and copies of this Agreement executed and delivered by means of emailed copies of signatures shall have the same force and effect as copies hereof executed and delivered with original signatures. All parties hereto may rely upon emailed signatures as if such signatures were original signatures. Any party executing and delivering this Agreement by email shall promptly thereafter deliver a counterpart signature page of this Agreement containing said party's original signature, but the failure to deliver a manually executed counterpart shall not affect the validity, enforceability and binding effect of this Agreement.

[SIGNATURE PAGE FOLLOWS]

GRAY WILLOWS WETLAND MITIGATION BANK
WETLAND CREDIT PURCHASE AGREEMENT

IN WITNESS WHEREOF, the parties have executed this Agreement to become effective as of the day and year first written above.

SELLER:

V3WETLAND RESTORATION, L.L.C.,
An Illinois Limited Liability Company

By: _____

Michael Famiglietti, P.E.
President

BUYER:

County of Kane

By: _____

Corinne M. Pierog, MA, MBA
Chairman, Kane County Board

Attest:

_____
John A. Cunningham
Kane County Clerk

STATE OF ILLINOIS)
SS.
COUNTY OF KANE)

RESOLUTION NO. TMP-23-1262

APPROVING AN AMENDED & RESTATED INTERAGENCY GROUP RECIPROCITY AGREEMENT WITH E-ZPASS INTERAGENCY GROUP OF NEWARK, DELAWARE

WHEREAS, certain toll bridge operations and maintenance services for transponder compatibility are required to operate the Kane County Highway No. 86, ("Longmeadow Parkway") Toll Bridge (herein referred to as the "Project"); and

WHEREAS, the E-ZPass Interagency Group (IAG) is a national organization comprised of 39 member agencies that utilize compatible technology to operate automatic electronic toll collection systems on the vast majority of the tolled roads, bridges, and tunnels (hereinafter "tolled facilities") east of the Mississippi River in seventeen of the United States. The technology utilized allows automobile travelers to use compatible transponders on tolled facilities throughout the entire E-ZPass highway network. The Illinois Toll Highway Authority and the Chicago Skyway are members of the IAG; and

WHEREAS, the IAG Executive Management Committee unanimously approved Kane County as a full member of the IAG on April 16, 2020, and pursuant to Resolution No. 20-268 the County entered into the Operations Agreement with IAG (the "Agreement'); and

WHEREAS, the IAG Executive Management Committee has approved an Amended and Restated IAG Reciprocity Agreement that establishes: a) confidentiality of customer account information, b) account settlement processes and procedure, c) violations , d) marketing and e) discount programs, collectively hereinafter the Amended and Restated IAG Reciprocity Agreement , (a copy of which is file in the office of the Kane County Clerk).

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Amended and Restated IAG Reciprocity Agreement with E-ZPass Interagency Group, (IAG) is hereby approved and the Chairman thereof is hereby authorized to execute the Amended and Restated IAG Reciprocity Agreement with the E-ZPass Interagency Group for the Project.

Passed by the Kane County Board on October 10, 2023

_____	_____
John A. Cunningham, MBA, J.D.	Corinne M. Pierog MA, MBA
Clerk, County Board	Chairman, County Board
Kane County, Illinois	Kane County, Illinois
Vote:	

RESOLUTION / ORDINANCE EXECUTIVE SUMMARY ADDENDUM

Title

Approving an Amended & Restated Interagency Group Reciprocity Agreement with E-ZPass Interagency Group of Newark, Delaware

Committee Flow:
Transportation Committee, Executive Committee, County Board

Contact:
Steve Coffinbargar (630) 406-7170

Budget Information:

Was this item budgeted? N/A	Appropriation Amount: $N/A
If not budgeted, explain funding source: N/A	

Summary:

In 2020, the County of Kane become a Full Member of the E-ZPass Interagency Group (IAG). More recent, the Executive Management Committee of IAG approved an Amended and Restated IAG Reciprocity Agreement, which establishes the following:

- Confidentiality of customer account information
- Account settlement
- Violations
- Marketing
- And discount programs

Staff recommends approval of the Amended and Restated IAG Reciprocity Agreement.

AMENDED AND RESTATED IAG RECIPROCITY AGREEMENT

This Amended and Restated IAG Reciprocity Agreement (this "Agreement") is made as of the ___ day of _____, 2023 by and among the Full Member Agencies and expires when terminated or amended as provided herein. This Agreement amends and restates that certain Reciprocity Agreement dated as of July 30, 1998 among the Full Member Agencies (the "Initial Reciprocity Agreement").

WHEREAS, the Full Member Agencies are parties to the E-ZPass Interagency Group ("IAG") Second Amended and Restated Operations Agreement dated as of October 14, 2021 (as amended from time to time in accordance with its terms, the "Operating Agreement"). Any capitalized terms not specifically defined in this Agreement will have the same meaning as assigned to such term in the Operating Agreement; and

WHEREAS, E-ZPass® is a regional system of electronic toll collection operated by the Members pursuant to the Operating Agreement; and

WHEREAS, in order to implement the operation of the regional electronic toll collection system, the signatories to this Agreement recognize the practical necessity of their joint and cooperative effort; and

WHEREAS, the parties acknowledge that the goal of the IAG is to offer interoperability to their customers to the fullest extent, including the ability to provide a single account statement to each customer setting forth their transaction activities on all participating Members' toll facilities; and

WHEREAS, agreement of the principles set forth is essential to commence development of more elaborated plans to achieve reciprocity among Members employing electronic toll collection; and

WHEREAS, the parties agree and acknowledge that this Agreement shall be considered an extension of, and intended to implement in part, the Operating Agreement; and

WHEREAS, the parties desire to amend and restate the Initial Reciprocity Agreement on the terms hereinafter set forth.

NOW, THEREFORE, in consideration of the covenants herein contained, the Members agree as follows:

AMENDED AND RESTATED IAG RECIPROCITY AGREEMENT

I. DEFINITIONS

Away Member	Any Member that is not the customer's Home Member.
Conditional Settlement	An interim Settlement between Members prior to final settlement.
Customer License Plate File	A file maintained by each Member containing the license plates associated with the customer accounts of that Member and which denotes the status of each license plate consistent with the IAG Technical Specifications.
Final Settlement	A Settlement between Members after Reconciliation has been completed and accepted by the two Members.
Full Member Agency	A Full Member Agency as defined in the Operating Agreement.
Guaranteed Plate	A license plate that is used for a toll transaction for which the Home Member guarantees payment of the toll.
Guaranteed Plate Transaction	The passage of a Guaranteed Plate through a lane on a Member facility.
Home Member	The Member that establishes and/or maintains a customer's account and issues a tag(s).
IAG Technical Specifications	The IAG Inter-Customer Service Center Interface File and Reporting Specifications, approved and in effect, and any other technical guidelines established by IAG, in each case, as may be amended from time to time. Also referred to as "Inter-CSC Interface File Specifications" and "Inter-Customer Service Center Interface File Specifications."
Invalid Tag	A tag that is denoted by a Home Member as not being a Valid Tag; the Home Member does not guarantee payment of toll transactions utilizing an Invalid Tag.
Invalid Tag Transaction	The passage of an Invalid Tag through a lane.
Member	A Member as defined in the Operating Agreement.

Non-Guaranteed Plate	A license plate which is used for a toll transaction on a Member facility for which the Home Member does not guarantee payment of the toll. Payment would only be made if funds are available at the time of Posting.
Non-Guaranteed Plate Transaction	The passage of a Non-Guaranteed Plate through a lane on a Member facility.
Posting or Posted	The recording of a toll transaction against a customer's account and deducting the toll charge from the customer's account balance.
Pre-Paid Accounts	Member customer accounts that require money be on deposit in advance for their toll transaction to be accepted as valid.
Reconciliation	The process whereby a Home Member and an Away Member resolve any discrepancies in arriving at Final Settlement.
Settlement	The transfer by a Home Member of United States dollars representing the gross toll revenues due to an Away Member for Valid Tag Transactions, Guaranteed Plate Transactions and posted Non-Guaranteed Plate Transactions incurred on the Away Member's facilities by the Home Member's customers.
Tag Validation File	A file maintained by each Member of tags issued by that Member which denotes the status of each tag issued as having one of three values (valid, low balance, and invalid) consistent with IAG Technical Specifications.
Valid Tag	A tag which is used for a toll transaction for which the Home Member guarantees payment of the toll.
Valid Tag Transaction	The passage of a Valid Tag through a lane on a Member facility.

II. Confidentiality

(1) (a) As used in this section, the term "Confidential Information" shall include any research, development and trade secrets, business affairs, and other information of the Members and their contractors, their representatives, employees, subsidiaries, affiliates and agents, which is designated in writing as Confidential Information. Information shall not be considered Confidential Information to the extent that it (i) is or becomes a part of

the public domain, or (ii) is already known free of any confidentiality obligation, or (iii) is independently developed without access to the Confidential Information, or (iv) is disclosed under proper judicial or governmental process, or (v) is approved for release by written authorization.

(b) Members agree to treat any Confidential Information as confidential to the extent permitted by applicable United States, State and local law and Member policy. Each Member agrees to request the other Members to treat as exempt from disclosure any information and documents it believes might be exempt from disclosure pursuant to the provisions of the State laws applicable to the Members and their policies on confidentiality.

(c) Subject to the provision of subparagraph (b) of this paragraph, Members agree that they shall hold Confidential Information of an Away Member in confidence, and shall safeguard the Confidential Information with at least the same level of care and security, using all reasonable and necessary security measures, devices and procedures, that they use to maintain their own Confidential Information.

(2) (a) As used in this section, the term "customer account information" shall include all information about an account holder and the vehicles utilizing that account, including but not limited to: the account holder's name, address, and any other identifying characteristics; the make, model, year and plate number of such vehicles; all photographs, microphotographs, videotapes and other recorded images of such vehicles created by E-ZPass® equipment; and itemized statements of account deductions for the use of such system. Nothing in this section shall be construed as prohibiting the use of customer account information for Member traffic and facility management purposes and the reporting thereof, provided that such use does not identify an individual person or vehicle.

(b) The Members agree that when a Member is in receipt of individual or aggregate customer account information relative to the customer of another Member, the receiving Member will not make such information available to the public unless required to do so by the State law of such receiving Member or by the order of a court of competent jurisdiction, or, in the case of a multi-jurisdictional Member where there is no applicable law, by Member policy. When a Home Member is in receipt of customer account information from an Away Member, unless that Home Member and Away Member have agreed otherwise, the Home Member will release that information to another governmental entity only as required by law. Further, the Members agree that when a Member is in receipt of

customer account information relative to the customer of another Member, the receiving Member may utilize such information solely for the following purposes: billing an account holder or deducting toll charges from the account holder's account; enforcement of toll collection and related regulations or violations of the account holder's customer agreement; in a judicial or administrative action or discovery proceeding to which the Member is a party; the operation of commercial vehicle operation programs; or as otherwise permitted by the Away Member. In particular, with respect to: (i) fund raising or (ii) commercial purposes not involving use of a Valid Tag, Invalid Tag, Guaranteed Plate or Non-Guaranteed Plate, Members will not sell, distribute or make available in any way the names and addresses of Away Member account holders for such purposes.

(c) The Members agree that each Member shall formally adopt the provisions of subparagraph (b) of this paragraph as its formal policy on the use of customer account information relative to the customers of another Member. The phrase "toll policies" as utilized in paragraph (4) of section X of this Agreement shall include the policy required by this section.

(d) The Members agree that each Member shall enter into a customer agreement with each of its customers. Such customer agreement shall contain a provision whereby the customer acknowledges that: customer account information may be disclosed to other Members for the purposes set forth in this paragraph; and such information may be subject to disclosure to the public if such disclosure is required by the law of the State in which toll charges were incurred or by the order of a court of competent jurisdiction, or, in the case of a multi-jurisdictional Member where there is no applicable law, by Member policy.

(e) No Member shall be required to disclose customer account information to another Member or to any other entity as part of a non-toll business opportunity agreement pursuant to which such information will be sold, distributed, or made available in any way for: (i) fund raising or (ii) commercial purposes not involving use of a Valid Tag, Invalid Tag, Guaranteed Plate or Non-Guaranteed Plate.

(f) The Members agree that each Member shall treat Home Member customer account information in the same manner that they are required to treat Away Member customer account information pursuant to paragraph (2) (b) of this section. Provided, however, that a Home Member may, when permitted by the law of the State where it is located or, in the case of a multi-jurisdictional Member where there is no applicable law,

by Member policy: disclose its own Home Member customer account information for commercial or fundraising purposes provided the written consent of the account holder is obtained; and/or provide its own Home Member customer account information to a law enforcement agency in accordance with the applicable policy of the Home Member.

(3) If any Member ascertains that an unauthorized third party has obtained Confidential Information or customer account information, upon discovery of such occurrence it shall notify the affected Member.

III. Notices

Any notice required pursuant to the provision of this Agreement shall be sent by first class mail or by overnight delivery service addressed to the IAG Executive Director. It may also be sent by electronic mail as a secondary form of delivery. Transmission by electronic mail does not constitute legal notice.

The Members agree to notify the IAG Executive Director and the appropriate EMC Committee Chair, of all inter-agency agreements and of all programs, system or operational changes in programs (including the agreements referenced in Article XII (2)).

IV. Modification

This Agreement shall not be subject to oral modification. Any change in the terms hereof shall be in writing and signed by the party or parties to be charged therewith. The forgiveness by any party of the terms or conditions hereof shall not constitute a waiver thereof unless such party so specifies in writing.

V. Rights and Benefits

This Agreement is solely for the benefit of the Full Member Agencies and is not intended to, nor should it be construed to, create any rights in any other party. A Full Member Agency may not assign any portion of this Agreement. The Members shall be subject to the terms and conditions of this Agreement as applicable to the Members' class of membership, as described in the Operating Agreement.

VI. Entire Agreement

This Agreement sets forth the entire agreement between the parties, and, except as set forth in Section IV, may be amended only by a written instrument executed by the parties hereto.

VII. Choice of Law and Severability

It is the desire and intention of the parties that the provisions of this Agreement shall be governed and enforced to the fullest extent permissible under the laws and public policies of the respective States of the Members. Accordingly, if any particular provisions of this Agreement shall be adjudicated to be invalid or unenforceable without affecting the binding force of the Agreement, the remaining provisions shall remain in full force and effect after deleting such provision.

VIII. Dispute Resolution

Any dispute or disagreement that arises from this Agreement shall be settled in the same manner as any dispute arising under the Operating Agreement.

IX. Account Settlement Process

(1) *Data File Transfers*

Members will provide for timely transmissions, receipt, and acknowledgment for all data file transfers pursuant to this Agreement and in accordance with the IAG Technical Specifications.

(2) *Exchange of Tag Validation Files and Customer License Plate Files*

(a) The Members agree to electronically exchange all tag status data and Customer License Plate File data on a regular schedule, at least once per day, or more frequently, as determined by agreement between two Members. The Home Member shall provide to other Members its Tag Validation File and Customer License Plate File. The Away Members will, as soon as practicable (but at least once per day, or as otherwise agreed by separate agreement between an Away Member and a Home Member), download the most current Tag Validation Files and Customer License Plate Files to their toll lanes or other system, as applicable, and shall use such files for any internal processing.

(b) The Home Member will determine the tag status by creation of a Tag Validation File denoting the status of each tag as having one of three values (valid (1), low balance (2), or invalid (3) consistent with the IAG Technical Specifications. The Home Member will transmit the Tag Validation File to the Away Members. A fourth value for lost/stolen (4) does exist, but is not included in the Tag Validation file sent to Away Members.

(c) The Home Member will create and maintain a Customer License Plate File denoting the status of each license plate consistent with the IAG Technical Specifications. The Home Member will transmit the Customer License Plate File to the Away Members.

(d) An Away Member may deny E-ZPass® use on its facilities for a tag that was reported as a Valid Tag by the Home Member, or for a Guaranteed Plate or Non-Guaranteed Plate, for an infraction of the Away Member's administrative or operating policies.

(3) *Valid Tag Transactions, Guaranteed Plate Transactions and Non-Guaranteed Plate Transactions*

(a) Members agree to electronically exchange all Valid Tag Transactions, Guaranteed Plate Transactions and Non-Guaranteed Plate Transactions data consistent with the IAG Technical Specifications on a regular schedule, at least once a day, or more frequently, or as otherwise determined by agreement between two Members.

(b) All Valid Tag Transactions, Guaranteed Plate Transactions and Non-Guaranteed Plate Transactions will be recorded and transmitted by the Away Member to the Home Member at least once per day or as otherwise determined by agreement between two Members.

(c) Upon receipt of transaction records, the Home Member will post transactions to the proper accounts. Settlement of a Valid Tag Transaction and Guaranteed Plate Transaction shall not be dependent on transaction Posting; i.e., the Home Member's obligation to pay the Away Member is not contingent upon the Home Member Posting the transactions to the customer's account. Settlement of a Non-Guaranteed Plate Transaction shall be dependent on transaction Posting. The class as determined by the Away Member (e.g. from the tag, AVC system, collector determination) will be used to determine the amount of toll to be posted and honored by the Home Member for settlement purposes.

(d) (i) So long as the Away Member transfers Valid Tag Transactions and Guaranteed Plate Transactions to the Home Member within 60 days, the Home Member will honor same if the account is open.

(ii) Notwithstanding any reference in this Agreement, the Home Member is not responsible to honor the Valid Tag Transaction or Guaranteed Plate

Transaction if the transaction is received more than 10 days after the transaction occurred and the account is closed.

(e) For those Members where a manual transaction is recorded in the lane due to a "no read", that transaction will be converted into an electronic Valid Tag Transaction as detailed in the IAG Technical Specifications.

(4) *Invalid Tag Transactions*

Away Members will not transfer Invalid Tag Transactions to the Home Member for payment unless otherwise agreed upon by those Members.

(a) *Infraction of Away Member's Operating or Administrative Policies*

(i) The Away Member will notify the Home Member electronically that its customer's Valid Tag, Guaranteed Plate or Non-Guaranteed Plate will be denied E-ZPass® use on that Away Member's facilities because of an infraction of its operating or administrative policies.

(ii) The Home Member will provide the data needed to the Away Member for customer notification according to (iii) below.

(iii) The Away Member will notify the customer that his/her tag or license plate will no longer be valid on its facilities.

(b) *Lost and Stolen*

(i) The Home Member will notify the Members of a lost or stolen tag.

(ii) The Away Member will process these Lost or Stolen Tags as violations according to the rules and regulations of the Away Member.

(5) *Customer Disputed Transactions*

(a) Each Member will inform the other Members of its guidelines for handling customer disputed transactions. When, due to cost/benefit or other considerations, customer accounts are credited for the disputed amount without further research, such credits will not affect Settlement or Reconciliation between Members.

(b) When a customer disputes a transaction that occurred on an Away Member's facility, and such transactions are researched, acknowledged and agreed to be an error of the Away Member, the resulting adjustment will become part of the Reconciliation and

Settlement between the two Members and no payments will be made for such transactions.

(c) In order to enable proper researching of customer complaints, all Members will maintain records related to toll transactions for a minimum period of 120 days.

(6) *Settlement & Revenue Reconciliation*

(a) The Home Member will transfer the gross toll amount due for Valid Tag Transactions, Guaranteed Plate Transactions and Posted Non-Guaranteed Plate Transactions as reported by an Away Member in United States dollars. All transfers will be calculated on a gross basis.

(b) The Home Member will settle in a manner and frequency as determined by agreement between the Home and Away Member, but at least monthly. Final settlement will be based on Valid Tag Transactions and Guaranteed Plate Transactions as reported by the Away Member regardless of account status at time of Posting as well as Posted Non-Guaranteed Plate Transactions as reported by the Away Member.

(c) Actual or estimated revenue as reported by the Away Member may be used as a basis for Conditional Settlement as agreed between the Home and Away Members.

(d) Valid Tag Transactions and Guaranteed Plate Transactions obligate the Home Member to remit the correct toll to the Away Member at the time of Settlement regardless of the status of the Home Member account at the time of Posting. In the case of lost, stolen, or otherwise invalid tags, the Home Member is no longer obligated for transactions that occur after notification to the Away Member.

(e) A Member which does not act as a Home Member may notify the other Members that all transactions relating to such Member's facilities shall be transmitted to and settled with a Home Member designated by such Member.

(7) *Tag and Account Policies*

(a) Current fees, deposits, and policies of Members are set forth in the Interagency E-ZPass Policy Matrix, which may be amended from time to time, and is maintained by the IAG Executive Director. Members may use this Matrix as a resource for their policies in an effort to avoid influencing customer enrollment patterns.

(b) The Members agree to follow the Vehicle Classification protocol of the IAG in their tag distribution programs.

(c) A Home Member may determine that its valid non-revenue Accounts may be invalid at an Away Member.

X. Violations

(1) Processing of E-ZPass® customer violations at the Away Member when the tag is reported as lost/stolen by the Home Member will be pursuant to the rules and regulations of the Away Member.

(2) If cash is collected at the Away Member for any transaction, the Away Member will not transfer any such transactions to the Home Member.

(3) The Members agree to facilitate the identification of violators by the sharing of appropriate information or files to the extent permitted by law.

(4) The Members will share customer account information only for the purpose of collecting tolls, the enforcement of toll policies or as otherwise required by law.

(5) The Members will process toll evasion violation images in such a manner as to identify customers' accounts in good standing and thereby create a Valid Tag Transaction, a Guaranteed Plate Transaction or a Non-Guaranteed Plate Transaction.

(6) Non-customer toll evasion violators will be processed pursuant to the rules and regulations of the Member where the violation occurred.

(7) Participating Members may establish a procedure for grouping toll plaza speeding violations among Members which may result in a Home Member suspending an account because of violations on Away Member facilities.

XI. Marketing

Members will provide advance notification of E-ZPass® marketing activities to the Public Relations and Marketing Committee of the IAG.

XII. Miscellaneous

(1) The parties acknowledge and agree that any Member posting an E-ZPass® sign will accept all Valid Tags.

(2) The parties acknowledge and agree that this Reciprocity Agreement is subject to each Member implementing interoperability and reciprocity agreements with the other Members regarding provisions in Article IX of this Agreement. Each Member is obligated to

proactively resolve issues and define agreements to achieve interoperability and reciprocity with each of the other Members in the IAG in a timely manner.

(3) *Discount Programs*

A Member that wants its discount program(s) offered in another Member's Customer Service Center (CSC) shall fund the expense of the program(s). Such arrangement shall be subject to auditing processes. Furthermore, if a Member wants to offer another Member's discount program(s) through its CSC, it may do so at its own expense, not to include foregone toll revenue. The Members agree to cooperate in any such efforts. Expenses referred to herein include, but are not limited to, all expenses, such as programming and CSC training and materials including increased expenses to the Member whose discount program is being offered. Two or more Members may agree to a different allocation of expenses.

(4) *Non-Toll Business Opportunities*

All E-ZPass® tag holders meeting the criteria for participation in a non-toll business opportunity application shall be eligible to participate.

(5) The parties agree that an acceptable electronic signature or facsimile transmission of a signature shall be an original signature for all purposes provided herein facilitating the signing of this Agreement.

AMENDED AND RESTATED IAG RECIPROCITY AGREEMENT

This Amended and Restated Reciprocity Agreement has been duly authorized and executed as of the date first above written.

New Jersey Turnpike Authority
By: _____
Name: _____
Its: _____

New York State Thruway Authority
By:_____
Name: _____
Its: _____

Pennsylvania Turnpike Commission
By: _____
Name: _____
Its: _____

The Port Authority of New York and New Jersey
By: _____
Name: _____
Its: _____

South Jersey Transportation Authority
By: _____
Name: _____
Its: _____

Triborough Bridge and Tunnel Authority
By: _____
Name: _____
Its: _____

Delaware River Port Authority
By: _____
Name: _____
Its: _____

Delaware Department of Transportation
By: _____
Name: _____
Its: _____

New York State Bridge Authority
By: _____
Name: _____
Its: _____

Maryland Transportation Authority
By: _____
Name: _____
Its: _____

Massachusetts Department of Transportation
By: _____
Name: _____
Its: _____

Delaware River and Bay Authority
By: _____
Name: _____
Its: _____

Delaware River Joint Toll Bridge Commission
By: _____
Name: _____
Its: _____

Maine Turnpike Authority
By: _____
Name: _____
Its: _____

New Hampshire Department of Transportation
By: _____
Name: _____
Its: _____

Virginia Department of Transportation
By: _____
Name: _____
Its: _____

Illinois State Toll Highway Authority
By: _____
Name: _____
Its: _____

The Burlington County Bridge Commission
By: _____
Name: _____
Its: _____

Buffalo and Fort Erie Public Bridge Authority
By: _____
Name: _____
Its: _____

Ohio Turnpike and Infrastructure Commission
By: _____
Name: _____
Its: _____

Niagara Falls Bridge Commission
By: _____
Name: _____
Its: _____

Central Florida Expressway Authority
By: _____
Name: _____
Its: _____

Thousand Islands Bridge Authority
By: _____
Name: _____
Its: _____

County of Kane (IL)
By: _____
Name: _____
Its: _____

The State Road and Tollway Authority (GA)
By: _____
Name: _____
Its: _____

West Virginia Parkway Authority
By: _____
Name: _____
Its: _____

Rhode Island Turnpike and Bridge Authority
By: _____
Name: _____
Its: _____

North Carolina Turnpike Authority
By: _____
Name: _____
Its: _____

Kentucky Public Transportation Infrastructure Authority
By: _____
Name: _____
Its: _____

Florida Department of Transportation
By: _____
Name: _____
Its: _____

Minnesota Department of Transportation
By: _____
Name: _____
Its: _____