



Law Enforcement
Public Safety & Fire
Justice
Municipal
Corporate/Commercial

Redstone Architects, Inc.

30700 Telegraph Road, Suite 1677, Bingham Farms, MI 48025

06/10/2025

Township Board
7525 Highland Road
White Lake, Michigan 48383

Township Board Members,

The enclosed PCO provided by McCarthy & Smith encompasses several electrical items addressed in bulletin #4R. Items addressed in bulletin #4R include submittal driven changes, contractor driven changes, DTE/Owner driven changes and electrical engineering changes for clarification.

The contractor (A.C.E.S.) has provided a 'Scope Summary' identifying the items in their quote. Redstone has taken the A.C.E.S. bullet list and created a spreadsheet to provide the Township board more information. The spreadsheet references the 'Scope Summary'.

Teffera Kowalske from Redstone Architects will attend the board meeting on June 17th to answer any questions if needed.

Thank you,

Teffera Kowalske
Redstone Architects

PCO Bulletin #4R
Summary

Bullet Point	Contractor Explanation	Explanation of Activity and Reason	Approximate Cost
Bullet #1	Added: Remove secondary wiring from Bulletin #1 and move it to Bulletin 4R.	Activity: Bulletin #1 revised the contents of the conduit from the Transformer to the CT Cabinet to contain wires in lieu of empty conduit. Reason: Electrical engineer unclear at time of design if DTE was to provide the wire from the transformer to the CT cabinet or only to the transformer. Once clarified the bulletin was issued. This would be cost to the owner either directly from DTE or as part of the PSB construction cost.	\$71,764.00
Bullet #2	Added: Cost for Motor Starter/Disconnect combo units per drawings.	Activity: The electrical drawings added a starter/disconnect in response to a mechanical submittal. Reason: The mechanical equipment submitted did not contain this necessary electrical piece. Some equipment comes with this and some does not. The engineer did not know what equipment would be submitted by the contractor until the shop drawing phase.	\$9,249.00
Bullet #3	Extended length of utility conduits (DTE & Telecom) to match drawing E004 and site location of conduit stubs from utility pole across Elizabeth Lake Rd.	Activity: Extended utility conduit (about 70') to the exact location across Elizabeth Lake Rd. Reason: At the time of design the exact location of the utility connections were not known. The drawings reflected an approximation.	\$4,085.56
Bullet #4	Primary switch conduit route extended to 200' from building per Drawing note on sheet E004.	Activity: The conduit route was modified to move it further from the road. Reason: DTE Request.	\$12,774.35
Bullet #5	Credit for shortened conduit route from Primary Switch Cabinet to SCC cabinet.	Activity: The SCC cabinet was relocated. Reason: DTE request.	(\$9,207.41)

PCO Bulletin #4R
Summary

Bullet Point	Contractor Explanation	Explanation of Activity and Reason	Approximate Cost
Bullet #6	Credit for shortened conduit route from SCC cabinet to PSB utility transformer.	Activity: The SCC cabinet was relocated. Reason: DTE request.	(\$18,817.96)
Bullet #7	Credit for shortened conduit route from PSB utility transformer to Township Hall utility transformer.	Activity: Transformer relocated Reason: DTE request.	(\$23,978.87)
Bullet #8	Credit for shortened conduit route from Township Hall utility transformer to future stub up location by library.	Activity: Transformer relocated. Reason: DTE request.	(\$2,849.91)
Bullet #9	Gate power conduit locations extended to cross drives for card readers and back to gates.	Activity: The gates for the secure PD lot were relocated to allow for a vehicle to approach the gate before using key card or allowed access. Reason: Owner driven change based on reconsideration of secure access operations.	\$86.39
Bullet #10	Added: Concrete encasement of sign power conduit across drive per RFI #41 response.	Activity: Relocation of the utility conduit (per bullet #3) puts the conduit under a drive and requires concrete encasement. Reason: Per bullet #3- the exact location of the utility was unknown at the time of design.	\$1,863.74
Bullet #11	Added: Provide future primary conduit and stub-up for Stanley Park.	Activity: Added conduit. Reason: Per Owner and Beckett and Raeder.	\$4,911.54

PCO Bulletin #4R
Summary

Bullet Point	Contractor Explanation	Explanation of Activity and Reason	Approximate Cost
Bullet #12	Added: Provide rigid sweeps for secondaries from the CT to ATS & sand backfill and compactions around conduits under parking lot & through approved window foundation chase instead of concrete per E004 revised drawings, RFI #41 and Sud Mitchell's email.	Activity: The CT cabinet was relocated to ease congestion at building. Reason: On-site contractors asked for the change due to ease of installation, better function, and better aesthetics.	\$16,648.76
Bullet #13	Added: Provide sand backfill and compaction of all conduits now routed below parking lots and roadways. Less in greenbelt areas.	Activity: Conduit was moved from other side of the stone wall to through the secure pd lot. Reason: Site conditions. The soils at the back of the sites were bad and would not accommodate the electrical systems. All of the conduit had to be moved closer to the building where there were better soils. Consequently this was under the pd parking lot and needs to be encased in sand fill and concrete.	\$36,181.19
Bullet #14	Added: Stockpiling of added spoils on site.	Activity: Soil removed from the conduit trenches needs to be moved to another location on site for storage. Reason: The soil removed from the conduit trenches can no longer be used for back fill since the conduit will be under a drive. Sand will be needed in lieu of the existing soils.	\$3,200.00
		Materials backup	\$ 25,703.55
		Equipment	\$ 1,452.00
		Bond	\$ 1,767.55
		Sales Tax	\$ 5,240.20
		Total	\$ 140,073.68

White Lake Charter Township Civic Center Development

CONTRACTOR QUOTATION - WORK ITEMS DETAIL

☐ = to be completed by Contractor
☐ = predetermined or automatic calculation

Date:	April 25, 2025	Project Name:	White Lake Charter Township Civic Center Development
Contractor:	Advance Contracting & Electrical Service	A/E / A/E Project #:	Redstone Architects
Check One ☐ Check if PRIME Contractor ☐ Check if Subcontractor		CM:	McCarthy & Smith, Inc.
BULLETIN NO:	4R	CCD NO:	
ASI NO:		Contractor CHANGE REQUEST NO:	

Description of Work:

Bulletin 4R changes per drawings E004,E301,E302,E503 Includes attached wire and starter/disconnect quotes

A. MATERIALS and PURCHASED EQUIPMENT		Enter negative quantity for deleted work items.		DO NOT INCLUDE State Sales Tax.		
Description	Quantity	Measure	Charge Price	Per	TOTAL	
1 - database Materials	1		\$ 79,339.31		\$79,339.31	
2 - Quoted materials for starters	1		\$ 8,325.00		\$8,325.00	
3 - Credits for disconnects	1		\$ (327.66)		-\$327.66	
4 -					\$0.00	
5 -					\$0.00	
8 - Shipping/Freight (when applicable)	1	LS	\$ -	LS	\$0.00	
** To add rows: COPY row, then INSERT COPIED CELLS, then re-number. **						Sub-Total Material Amount = \$87,336.65
						6% State Sales Tax Amount = \$5,240.20
						Sub-Total Material Amount = \$92,576.85
						10% Overhead & Profit Mark-up (0% if Credit) = \$9,257.68
						Total Material Amount = \$101,834.53

B. LABOR		On first quotation provide breakdown of rate for review by McCarthy & Smith. Rate to included burden and 10% OH&P per contract.									
		Approved HOURLY Straight Time RATE (a)	TOTAL Straight Time HOURS (b)	Approved Hourly 1-1/2 Time Rate (c)	TOTAL 1-1/2 Time HOURS (d)	Approved Hourly Double Time Rate (e)	TOTAL Double Time HOURS (f)		TOTAL Straight Time AMOUNT = a x b	TOTAL 1-1/2Time AMOUNT = c x d	TOTAL Double Time AMOUNT =e x f
Craft/Trade: Classification:	Foreman	\$ 120.00	106.12	\$ -		\$ -		=	\$ 12,734.40	\$ -	\$ -
Craft/Trade: Classification:	Journeyman	\$ 110.00	106.12	\$ -		\$ -		=	\$ 11,673.20	\$ -	\$ -
Craft/Trade: Classification:	Apprentice	\$ 100.00	106.12	\$ -		\$ -		=	\$ 10,612.00	\$ -	\$ -
Craft/Trade: Classification:		\$ -		\$ -		\$ -		=	\$ -	\$ -	\$ -
** To add rows: COPY row, then INSERT COPIED CELLS, then re-number. **								Sub-Totals =	\$ 35,019.60	\$ -	\$ -
** WHEN ADDING ROWS, LINK PROPERLY TO LABOR RATE SUMMARY TAB **								Sub-Total Field Labor Amount (Straight time + x1.5 time + x2 time) =	\$35,019.60		
								If net credit, reduction in credit to omit 10% Overhead & Profit in labor rate =	not applicable		
								Total Labor Amount =	\$35,019.60		

C. FIELD EQUIPMENT RENTALS		Enter negative quantity for deleted work items.				
Field Equipment Description (i.e. Backhoe, manlift, etc. - Not Job Vehicles)	Quantity	Measure	Charge Price	Per		
1 - Trencher	1		\$ 165.00		\$165.00	
2 - Skid Steer	3		\$ 190.00		\$570.00	
3 - Excvator	3		\$ 195.00		\$585.00	
** To add rows: COPY row, then INSERT COPIED CELLS, then re-number. **						Sub-Total Field Equipment Amount = \$1,320.00
						10% Overhead & Profit Mark-up (0% if Credit) = \$132.00
						Total Field Equipment Amount = \$1,452.00

D. UNIT PRICES: Include material, labor, all taxes other costs and fees		Enter negative quantity for deleted work items.				
Field Equipment Description (i.e. Backhoe, manlift, etc. - Not Job Vehicles)	Quantity	Measure	Charge Price	Per		
1 -					\$0.00	
2 -					\$0.00	
** To add rows: COPY row, then INSERT COPIED CELLS, then re-number. **						Total Unit Price Amount = \$0.00

E. SUBCONTRACTOR MARK-UP		
Name of Subcontractor		Amount
1 -		\$0.00
2 -		\$0.00
3 -		\$0.00
** To add rows: COPY row, then INSERT COPIED CELLS, then re-number. **		
Sub-Total Subcontractor Amounts =		\$0.00
5% Overhead & Profit Mark-up (0% if Credit) =		\$0.00
Total Subcontractor Amount =		\$0.00

TOTAL AMOUNT FOR WORK ITEM NO.				
BULLETIN NO.	4R	CCD NO.		ASI NO.
				Contractor CHANGE REQUEST NO.
				A. Total Material Amount = \$101,834.53
				B. Total Labor Amount = \$35,019.60
				C. Total Field Equipment Amount = \$1,452.00
				D. Total Unit Price Amount = \$0.00
				E. Total Subcontractor Mark-up Amount = \$0.00
				F. Bond Premium = \$1,767.55
				TOTAL AMOUNT FOR WORK ITEM = \$140,073.68
				Bond % 0%



Scope Summary for Bulletin 4R

April 30, 2025

McCarthy & Smith
24317 Indoplex Cir.
Farmington Hills, MI 48335

Re: White Lake Township Public Safety Building - Scope Description for Bulletin 4R

Scope: Bulletin #4R changes per drawings E004, E301, E302, E503 and RFI #34, RFI #40, RFI #41, RFI #42, RFI #43, responses

- Added: Remove secondary wiring from Bulletin #001 and move to Bulletin #004R as requested by Noah Steiner.
- Added: Cost for Motor Starter/Disconnect combo units per drawings. (Attached)
- Extend length of utility conduits (DTE and Telecom) to match drawing E004 and site location of conduit stubs from utility pole across Elizabeth Lake Rd. Includes concrete encasement across drives where noted per RFI 41 and requirements per Utility providers. (Drawings do not reflect intercept location from bored conduits for telecom)
- Primary switch conduit route extended to 200' from building per Drawing note on sheet E004.
- Credit for shortened conduit route from Primary Switch Cabinet to SCC cabinet.
- Credit for shortened conduit route from SCC cabinet to PSB utility transformer.
- Credit for shortened conduit route from PSB utility transformer to Township Hall utility transformer.

- Credit for shortened conduit route from Township Hall utility transformer to future stub up location by library.
- Gate power conduit locations extended to cross drives for card readers and back to gates.
- Added: Concrete encasement of sign power conduit across drive per RFI #41 response.
- Added: Provide Future Primary conduit and stub-up for Stanley Park.
- Added: Provide rigid sweeps for secondaries from CT to ATS & sand backfill and compaction around conduits under parking lot & through approved window foundation chase instead of concrete per E004 revised drawings, RFI #41 response, and S. Mitchell's email response to RFI #43 on 4/4/25.
- Added: Provide sand backfill and compaction of all conduits now routed below parking lots and roadways, less in greenbelt areas.
- Added: Stockpiling of added spoils on site.

Job ID: JOB-1963
Project: White Lake Bulletin #4



Takeoff

Vendor: KEELECTRIC 2 Jun 2025 19:25:21

Phase: FEEDERS

Item #	Qty	U/M	Q/M	Size	Description	Material Unit	Material Result	Labor Unit	Labor Result
175.00					UTIL TO CT SECONDARY CONDUITS				
70051	700.00	FT	M	600	THHN/THWN CU (STR)	17.9900	12,593.00	0.0480	33.60
70158	175.00	FT	M	4/0	GREEN THHN CU (GRD 1600A)	6.2500	1,093.75	0.0290	5.08
70051	700.00	FT	M	600	THHN/THWN CU (STR)	17.9900	12,593.00	0.0480	33.60
70158	175.00	FT	M	4/0	GREEN THHN CU (GRD 1600A)	6.2500	1,093.75	0.0290	5.08
70051	700.00	FT	M	600	THHN/THWN CU (STR)	17.9900	12,593.00	0.0480	33.60
70158	175.00	FT	M	4/0	GREEN THHN CU (GRD 1600A)	6.2500	1,093.75	0.0290	5.08
70051	700.00	FT	M	600	THHN/THWN CU (STR)	17.9900	12,593.00	0.0480	33.60
70158	175.00	FT	M	4/0	GREEN THHN CU (GRD 1600A)	6.2500	1,093.75	0.0290	5.08
Phase Totals:							54,747.00		154.70

Phase: DISTRIBUTION EQUIPMENT

Item #	Qty	U/M	Q/M	Size	Description	Material Unit	Material Result	Labor Unit	Labor Result
3.00					COMBO STARTER INSTALL				
200263	3.00	EA	M	SIZE 1 480V 3PH	FUSED COMBINATION NEMA-1 STARTER	0.0000	0.00	2.8000	8.40
Phase Totals:							0.00		8.40

Phase: SITE UTILITIES

Item #	Qty	U/M	Q/M	Size	Description	Material Unit	Material Result	Labor Unit	Labor Result
70.00					PRIMARY SWITCH TO UTILI POLE				
TITLE	70.00	EA	M		1-DUCT W/TRENCH & REBAR 5" PVC	0.0000	0.00	0.0000	0.00
10206	70.00	FT	M	5	PVC SCH 80	8.0000	560.00	0.2160	15.12
4000005	70.00	FT	E	24"W x 36"D	BACKHOE TRENCHING SANDY	0.0000	0.00	0.0811	5.68
4000061	70.00	FT	E	24"W 36"D	BACKHOE BACKFILL SANDY TRENCH	0.0000	0.00	0.0330	2.31
4000418	70.00	FT	M	24" WIDE	3" SAND BEDDING	0.0000	0.00	0.1200	8.40

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Phase: SITE UTILITIES

Item #	Qty	U/M	Q/M	Size	Description	Material Unit	Material Result	Labor Unit	Labor Result
4000245	74.00	FT	M	3"	RED TRENCH CAUTION TAPE	0.0312	2.31	0.0036	0.27
40043	14.00	OZ	M	OUNCE	PVC (GLUE) CEMENT	0.7825	10.96	0.0108	0.15
<i>1-DUCT W/TRENCH & REBAR 5" PVC Totals:</i>						<i>8.1894</i>	<i>573.26</i>	<i>0.4561</i>	<i>31.93</i>
0.00 INCOMING TO PRIMARY SWITCH									
TITLE	200.00	EA	M	5" PVC	1-DUCT W/TRENCHING & REBAR	0.0000	0.00	0.0000	0.00
10206	200.00	FT	M	5	PVC SCH 80	5.6300	1,126.00	0.1080	21.60
4000005	200.00	FT	E	24"W x 36"D	BACKHOE TRENCHING SANDY	0.0000	0.00	0.1298	25.95
4000061	200.00	FT	E	24"W 36"D	BACKHOE BACKFILL SANDY TRENCH	0.0000	0.00	0.0330	6.60
4000418	200.00	FT	M	24" WIDE	3" SAND BEDDING	0.0000	0.00	0.1200	24.00
4000245	210.00	FT	M	3"	RED TRENCH CAUTION TAPE	0.0312	6.54	0.0036	0.76
40043	40.00	OZ	M	OUNCE	PVC (GLUE) CEMENT	0.7825	31.30	0.0108	0.43
<i>1-DUCT W/TRENCHING & REBAR Totals:</i>						<i>5.8192</i>	<i>1,163.84</i>	<i>0.3967</i>	<i>79.34</i>
TITLE	1.00	EA	M	5	PVC SCH80 90D STUB-UP	0.0000	0.00	0.0000	0.00
31413	2.00	EA	M	5	PVC COUPLING	5.1955	10.39	1.0000	2.00
10206	5.00	FT	M	5	PVC SCH 80	5.6300	28.15	0.2160	1.08
40043	2.67	OZ	M	OUNCE	PVC (GLUE) CEMENT	0.7825	2.09	0.0108	0.03
31373	1.00	EA	M	5	PVC MALE ADAPTER	10.4004	10.40	1.0000	1.00
40265	1.00	EA	M	5	LOCKNUT	44.1773	44.18	0.6300	0.63
40242	1.00	EA	M	5	PLASTIC BUSHING	16.6181	16.62	0.6300	0.63
<i>PVC SCH80 90D STUB-UP Totals:</i>						<i>111.8262</i>	<i>111.83</i>	<i>5.3688</i>	<i>5.37</i>
20269	1.00	EA	M	5	PVC SCH 40 90-DEG ELBOW 48"R	45.4600	45.46	1.5000	1.50
20097	1.00	EA	M	5	GRC 90-ELBOW 48"R	481.0700	481.07	4.8000	4.80
10010	10.00	FT	M	5	GRC	40.0400	400.40	0.3800	3.80
31247	1.00	EA	M	5	HDPE COUPLING (O-RING TYPE)	117.3500	117.35	0.2300	0.23
-100.00 PRIMARY SWITCH TO SCC CABINET									
TITLE	-100.00	EA	M		1-DUCT W/TRENCH & REBAR 4" PVC	0.0000	0.00	0.0000	0.00
10205	-100.00	FT	M	4	PVC SCH 80	4.7900	-479.00	0.1680	-16.80
4000005	-100.00	FT	E	24"W x 36"D	BACKHOE TRENCHING SANDY	0.0000	0.00	0.0811	-8.11
4000061	-100.00	FT	E	24"W 36"D	BACKHOE BACKFILL SANDY TRENCH	0.0000	0.00	0.0330	-3.30
390362	-366.00	FT	M	#3	STEEL REBAR	0.0000	0.00	0.0240	-8.78
390370	-125.00	FT	M		STEEL TIE WIRE	0.0000	0.00	0.0600	-7.50
4000418	-100.00	FT	M	24" WIDE	3" SAND BEDDING	0.0000	0.00	0.1200	-12.00
390092	-20.00	EA	M	4 x 2	CARLON SNAP-LOC BASE SPACER	1.1856	-23.71	0.2000	-4.00
4000245	-105.00	FT	M	3"	RED TRENCH CAUTION TAPE	0.0312	-3.27	0.0036	-0.38

Advanced Contracting & Electrical

Phone:

Web:

Phase: SITE UTILITIES

Item #	Qty	U/M	Q/M	Size	Description	Material Unit	Material Result	Labor Unit	Labor Result
40043	-14.00	OZ	M	OUNCE	PVC (GLUE) CEMENT	0.7825	-10.96	0.0120	-0.17
					1-DUCT W/TRENCH & REBAR 4" PVC Totals:	5.1694	-516.94	0.6104	-61.04
31372	-2.00	EA	M	4	PVC MALE ADAPTER	5.2843	-10.57	0.8000	-1.60
31246	-1.00	EA	M	4	HDPE COUPLING (O-RING TYPE)	20.0000	-20.00	0.2000	-0.20
4000442	-1.50	YD	M	3500#	CONCRETE	175.0000	-262.50	9.0000	-13.50
	-275.00				SCC TO PUBLIC SAFETY BUILDING				
TITLE	-275.00	EA	M		1-DUCT W/TRENCH & REBAR 4" PVC	0.0000	0.00	0.0000	0.00
10205	-275.00	FT	M	4	PVC SCH 80	4.7900	-1,317.25	0.1680	-46.20
4000005	-275.00	FT	E	24"W x 36"D	BACKHOE TRENCHING SANDY	0.0000	0.00	0.0338	-9.30
4000061	-275.00	FT	E	24"W 36"D	BACKHOE BACKFILL SANDY TRENCH	0.0000	0.00	0.0279	-7.67
390362	-1,006.00	FT	M	#3	STEEL REBAR	0.0000	0.00	0.0240	-24.14
390370	-343.00	FT	M		STEEL TIE WIRE	0.0000	0.00	0.0600	-20.58
4000418	-275.00	FT	M	24" WIDE	3" SAND BEDDING	0.0000	0.00	0.1200	-33.00
390092	-55.00	EA	M	4 x 2	CARLON SNAP-LOC BASE SPACER	1.1856	-65.21	0.2000	-11.00
4000245	-288.00	FT	M	3"	RED TRENCH CAUTION TAPE	0.0312	-8.97	0.0036	-1.04
40043	-38.50	OZ	M	OUNCE	PVC (GLUE) CEMENT	0.7825	-30.13	0.0120	-0.46
					1-DUCT W/TRENCH & REBAR 4" PVC Totals:	5.1693	-1,421.56	0.5578	-153.39
4000442	-1.50	YD	M	3500#	CONCRETE	250.0000	-375.00	0.9000	-1.35
	-300.00				PUBLIC SAFETY BUILDING TRANSFORMER TO TOWN HALL TRANSFORMER				
TITLE	-300.00	EA	M		1-DUCT W/TRENCH & REBAR 4" PVC	0.0000	0.00	0.0000	0.00
10205	-300.00	FT	M	4	PVC SCH 80	4.7900	-1,437.00	0.1680	-50.40
4000005	-300.00	FT	E	24"W x 36"D	BACKHOE TRENCHING SANDY	0.0000	0.00	0.0338	-10.14
4000061	-300.00	FT	E	24"W 36"D	BACKHOE BACKFILL SANDY TRENCH	0.0000	0.00	0.0279	-8.37
390362	-1,098.00	FT	M	#3	STEEL REBAR	0.0000	0.00	0.0240	-26.35
390370	-375.00	FT	M		STEEL TIE WIRE	0.0000	0.00	0.0600	-22.50
4000418	-300.00	FT	M	24" WIDE	3" SAND BEDDING	0.0000	0.00	0.1200	-36.00
390092	-60.00	EA	M	4 x 2	CARLON SNAP-LOC BASE SPACER	1.1856	-71.14	0.2000	-12.00
4000245	-315.00	FT	M	3"	RED TRENCH CAUTION TAPE	0.0312	-9.81	0.0036	-1.13
40043	-42.00	OZ	M	OUNCE	PVC (GLUE) CEMENT	0.7825	-32.87	0.0120	-0.50
					1-DUCT W/TRENCH & REBAR 4" PVC Totals:	5.1694	-1,550.82	0.5580	-167.40
4000442	1.67	YD	M	3500#	CONCRETE	250.0000	416.67	0.9000	1.50
TITLE	-2.00	EA	M	4	GRC 90D STUB-UP	0.0000	0.00	0.0000	0.00
20096	-2.00	EA	M	4	GRC 90-ELBOW 48"R	481.0700	-962.14	3.6000	-7.20

Phase: SITE UTILITIES

Item #	Qty	U/M	Q/M	Size	Description	Material Unit	Material Result	Labor Unit	Labor Result
31360	-2.00	EA	M	4	PVC FEMALE ADAPTER	4.5530	-9.11	0.8000	-1.60
40043	-1.28	OZ	M	OUNCE	PVC (GLUE) CEMENT	0.7825	-1.00	0.0108	-0.01
10009	-10.00	FT	M	4	GRC	23.8400	-238.40	0.3000	-3.00
10568	-2.00	EA	M	4	CONDUIT CUT/THREAD/REAM	0.0000	0.00	1.0000	-2.00
30009	-2.00	EA	M	4	GRC/IMC COUPLING	44.4904	-88.98	0.5000	-1.00
40136	-2.00	EA	M	4	GRND BUSHING INSULATED	33.0947	-66.19	1.1000	-2.20
<i>GRC 90D STUB-UP Totals:</i>						<i>682.9089</i>	<i>-1,365.82</i>	<i>8.5069</i>	<i>-17.01</i>
20385	-1.00	EA	M	4	PVC SCH 80 90-DEG ELBOW	64.4000	-64.40	1.0000	-1.00
20433	-1.00	EA	M	4	PVC SCH 80 45-DEG ELBOW	42.5300	-42.53	1.0000	-1.00
31412	-5.00	EA	M	4	PVC COUPLING	2.0402	-10.20	0.8000	-4.00
UTIL TRANS TO FUTURE STUB									
TITLE	-100.00	EA	M	4	SCH 40 DIR-BURIED 1-DUCT W/TRENCH	0.0000	0.00	0.0000	0.00
10205	-100.00	FT	M	4	PVC SCH 80	4.7900	-479.00	0.1680	-16.80
40043	-9.00	OZ	M	OUNCE	PVC (GLUE) CEMENT	0.7825	-7.04	0.0108	-0.10
4000363	-100.00	FT	E	4">6"W 30"D	DITCH WITCH RT12 CLAY TRENCH	0.0000	0.00	0.0419	-4.19
4000245	-105.00	FT	M	3"	RED TRENCH CAUTION TAPE	0.0312	-3.27	0.0036	-0.38
<i>SCH 40 DIR-BURIED 1-DUCT W/TRENCH Totals:</i>						<i>4.8931</i>	<i>-489.31</i>	<i>0.2146</i>	<i>-21.46</i>
INCOMING DATA TO PUBLIC SAFETY									
TITLE	130.00	EA	M	4	SCH 80 DIRECT-BURIED 1-DUCT	0.0000	0.00	0.0000	0.00
10205	130.00	FT	M	4	PVC SCH 80	3.9619	515.05	0.0660	8.58
40043	18.20	OZ	M	OUNCE	PVC (GLUE) CEMENT	0.7825	14.24	0.0108	0.20
4000245	137.00	FT	M	3"	RED TRENCH CAUTION TAPE	0.0312	4.27	0.0036	0.49
390245	130.00	FT	M	12" WIDE	HAND TRIM SANDY TRENCH	0.0000	0.00	0.0200	2.60
<i>SCH 80 DIRECT-BURIED 1-DUCT Totals:</i>						<i>4.1043</i>	<i>533.56</i>	<i>0.0913</i>	<i>11.87</i>
4000005	130.00	FT	E	24"W x 36"D	BACKHOE TRENCHING SANDY	0.0000	0.00	0.0811	10.54
4000061	130.00	FT	E	24"W 36"D	BACKHOE BACKFILL SANDY TRENCH	0.0000	0.00	0.0330	4.29
4000418	130.00	FT	M	24" WIDE	3" SAND BEDDING	0.0000	0.00	0.1200	15.60
4000245	137.00	FT	M	3"	RED TRENCH CAUTION TAPE	0.0312	4.27	0.0036	0.49
4000442	10.50	YD	M	3500#	CONCRETE	250.0000	2,625.00	1.0800	11.34
20385	3.00	EA	M	4	PVC SCH 80 90-DEG ELBOW	64.4000	193.20	1.0000	3.00
20096	2.00	EA	M	4	GRC 90-ELBOW 48"R	481.0700	962.14	0.9000	1.80
31412	6.00	EA	M	4	PVC COUPLING	2.0402	12.24	0.8000	4.80
20502	4.00	EA	M	4	PVC EB/DB 90-DEG ELBOW 48"R	64.4000	257.60	0.4500	1.80
10009	10.00	FT	M	4	GRC	23.8400	238.40	0.3000	3.00

Advanced Contracting & Electrical

Phone:**Web:**

Phase: SITE UTILITIES

Item #	Qty	U/M	Q/M	Size	Description	Material Unit	Material Result	Labor Unit	Labor Result
21022	1.00	EA	M	4	PVC-CTD GRC 90-EL 48"R	593.4200	593.42	3.1200	3.12
	50.00				PP1 30.32.34				
TITLE	50.00	EA	M	1	SCH 80 DIR-BURIED 1-DUCT W/TRENCH	0.0000	0.00	0.0000	0.00
10199	50.00	FT	M	1	PVC SCH 80	0.8700	43.50	0.0479	2.39
40043	2.00	OZ	M	OUNCE	PVC (GLUE) CEMENT	0.7825	1.57	0.0108	0.02
4000363	50.00	FT	E	4">6"W 30"D	DITCH WITCH RT12 CLAY TRENCH	0.0000	0.00	0.0628	3.14
4000245	53.00	FT	M	3"	RED TRENCH CAUTION TAPE	0.0312	1.65	0.0036	0.19
					<i>SCH 80 DIR-BURIED 1-DUCT W/TRENCH Totals:</i>	<i>0.9343</i>	46.72	<i>0.1149</i>	5.75
70035	940.00	FT	M	8	THHN/THWN CU (STR)	0.5402	507.74	0.0090	8.46
70147	235.00	FT	M	12.	GREEN THHN CU (GRD 20A)	0.1903	44.71	0.0060	1.41
TITLE	50.00	EA	M	1 1/4	SCH 80 DIR-BURIED 1-DUCT W/TRENCH	0.0000	0.00	0.0000	0.00
10200	50.00	FT	M	1 1/4	PVC SCH 80	1.1400	57.00	0.0547	2.74
40043	2.00	OZ	M	OUNCE	PVC (GLUE) CEMENT	0.7825	1.57	0.0108	0.02
4000363	50.00	FT	E	4">6"W 30"D	DITCH WITCH RT12 CLAY TRENCH	0.0000	0.00	0.0419	2.09
4000245	53.00	FT	M	3"	RED TRENCH CAUTION TAPE	0.0312	1.65	0.0036	0.19
					<i>SCH 80 DIR-BURIED 1-DUCT W/TRENCH Totals:</i>	<i>1.2043</i>	60.22	<i>0.1008</i>	5.04
31360	1.00	EA	M	4	PVC FEMALE ADAPTER	4.5530	4.55	0.8000	0.80
	3.00				SIGN POWER CONCRETE				
4000442	2.78	YD	M	3500#	CONCRETE	250.0000	694.44	3.8250	10.63
	200.00				STUB TO FUTURE STANLEY PARK				
TITLE	200.00	EA	M	4	SCH 80 DIR-BURIED 1-DUCT W/TRENCH	0.0000	0.00	0.0000	0.00
10205	200.00	FT	M	4	PVC SCH 80	4.7900	958.00	0.0571	11.42
40043	180.00	OZ	M	OUNCE	PVC (GLUE) CEMENT	0.7825	140.86	0.0108	1.94
4000363	200.00	FT	E	4">6"W 30"D	DITCH WITCH RT12 CLAY TRENCH	0.0000	0.00	0.0419	8.37
4000245	210.00	FT	M	3"	RED TRENCH CAUTION TAPE	0.0312	6.54	0.0036	0.76
					<i>SCH 80 DIR-BURIED 1-DUCT W/TRENCH Totals:</i>	<i>5.5270</i>	1,105.40	<i>0.1125</i>	22.50
4000442	2.78	YD	M	3500#	CONCRETE	250.0000	694.44	0.9000	2.50
20502	3.00	EA	M	4	PVC EB/DB 90-DEG ELBOW 48"R	64.4000	193.20	0.4500	1.35
500271	20.00	EA	M	MISC	MATERIAL	1.0000	20.00	0.0000	0.00
	95.00				PUBLIC SAFETY CT TO ATS				
20385	4.00	EA	M	4	PVC SCH 80 90-DEG ELBOW	64.4000	257.60	1.0000	4.00
20096	4.00	EA	M	4	GRC 90-ELBOW 48"R	481.0700	1,924.28	3.6000	14.40
31360	8.00	EA	M	4	PVC FEMALE ADAPTER	4.5530	36.42	0.8000	6.40
10009	40.00	FT	M	4	GRC	23.8400	953.60	0.3000	12.00

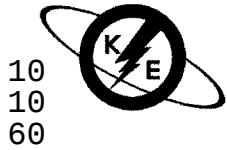
Advanced Contracting & Electrical

Phone:

Web:

Phase: SITE UTILITIES

Item #	Qty	U/M	Q/M	Size	Description	Material Unit	Material Result	Labor Unit	Labor Result
40241	8.00	EA	M	4	PLASTIC BUSHING	2.1911	17.53	0.5300	4.24
4000445	21.00	YD	M		SAND	50.0000	1,050.00	0.3000	6.30
31360	2.00	EA	M	4	PVC FEMALE ADAPTER	4.5530	9.11	0.9000	1.80
40241	4.00	EA	M	4	PLASTIC BUSHING	2.1911	8.76	0.5300	2.12
10009	10.00	FT	M	4	GRC	23.8400	238.40	0.3000	3.00
10568	14.00	EA	M	4	CONDUIT CUT/THREAD/REAM	0.0000	0.00	1.0000	14.00
30009	2.00	EA	M	4	GRC/IMC COUPLING	44.4904	88.98	0.5000	1.00
20160	4.00	EA	M	4	GRC 45-ELBOW 36"R	640.3700	2,561.48	3.6000	14.40
	160.00				COMPACTION				
500272	160.00	EA	M	MISC	LABOR HOURS	0.0000	0.00	1.0000	160.00
500271	800.00	EA	M	MISC	MATERIAL	1.0000	800.00	0.0000	0.00
4000445	213.33	YD	M		SAND	50.0000	10,666.67	0.3000	64.00
	32.00				STOCK PILE SPOILS ADJACENT TO WORK				
500272	32.00	EA	M	MISC	LABOR HOURS	0.0000	0.00	1.0000	32.00
Phase Totals:							24,584.31		155.26
Job Totals:							79,331.31		318.36



K/E Electric Supply Corp.

Corporate Office
146 North Groesbeck Hwy.
Mt. Clemens, MI 48043
Phone (586) 469-3005
Fax (586) 469-3006

1400 32nd St.
Port Huron, MI 48060
Phone (810) 989-9000
Fax (810) 989-9006

4040 Varsity Drive
Ann Arbor, MI 48108
Phone (734) 669-3000
Fax (734) 669-3001

35101 Schoolcraft Rd.
Livonia, MI 48150
Phone (734) 422-3005
Fax (734) 422-3707

8180 Grand River Avenue
Brighton, MI 48114
Phone (810) 227-7005
Fax (810) 227-7001

- Q U O T A T I O N -

Number: 985434

Date: 4/23/2025

PAGE 1

Customer PO#:
XHHW COPPER

TO
ADVANCE CONTRACTING & ELE
ELECTRICAL SERVICE
PO BOX 320123
FLINT MI 48532

SHIP TO
ADVANCE CONTRACTING & ELE
4055 S DYE ROAD
SWARTZ CREEK MI 48473

I192 Murphy	REQ'D BY	Ship After	Ship Via	F.O.B.	Payment Terms
192 MURPHY			Our Truck	Destination	NET 10TH
QUANTITY	DESCRIPTION				PRICE
1000	WIRE/XHHW	600 KCMIL XHHW-2 BLACK 1000 RL COPPER			17994.56M 17994.56
1000	WIRE/XHHW	4/0 STR XHHW-2 BLACK 1000 RL COPPER			6254.07M 6254.07
		STOCK IN TX FREIGHT CHARGES WILL APPLY			

Tax-Code: MI
Exemption#

* Taxable Amt: 24248.63
** Tax Amount: 1454.92

FIRM FOR ACCEPTANCE ON
OR BEFORE: 4/26/2025

By: T A Murphy

**** Amount: 25703.55



Project Name: White Lake Public Safety - Bulletin 4

Notes and Clarifications

Combo Starters are quoted as Size 1. Confirm prior to order.

Lead Time

Combination Starters: 8-15 Weeks

Loose Breakers: 15 Weeks

Fuses: Stock

Total Quote Price : 8325

Zach Turner | Power Distribution Specialist
1357 E. Lincoln Ave. Madison Heights, MI 48071
Office: 248-582-2379 | Cell: 248-881-0542
Email: turnerz@mc-mc.com

TERMS AND CONDITIONS:

THIS BOM IS OUR INTERPRETATION OF YOUR REQUEST. IT IS THE CUSTOMERS RESPONSIBILITY TO CONFIRM THE ACCURACY OF THIS BILL OF MATERIAL PRIOR TO ORDERING. THIS PROPOSAL IS LIMITED TO THE CONTENTS CONTAINED IN THIS BOM. START-UP SERVICES, TRAINING, FUSES, STORAGE, MINORITY PARTICIPATION, OR ANY OTHER ITEM NOT INCLUDED IN THIS BILL OF MATERIAL IS NOT INCLUDED IN FINAL PRICE. PRICE VALID FOR 30 DAYS.

1. Payment Terms Net 30
2. Quotes Vaild for 30 Days.
3. This BOM does not satisfy any Made in America Requirements unless specified prior. If Made in America is required for project quote, the Contractor must provide all documentation to verify compliance with the specified standards.
4. The sale of products and services by Seller is subject to Seller's general terms and conditions of sale ("Sellers's Terms") as attached to this document or as otherwise posted on Seller's website at <https://www.mc-mc.com/terms>. Seller objects to and rejects any terms or conditions that may appear on or are referenced in Customer's purchase order or other document that are in addition to or otherwise inconsistent with Seller's Terms. Customer's receipt or acceptance of delivery of any ordered item above will constitute its acceptance of Seller's Terms. The above link also includes Seller's Return Policy for customer reference.
5. McNaughton McKay and Caniff reserves the right to pro forma invoice for all materials that are staged and stored in our facilities upon receipt of materials.
6. McNaughton McKay and Caniff reserves the right to invoice for all Deposits or Pre-Payments as required by our Vendors.

Detail Bill of Material

Project Name: White Lake Public Safety Building
- Bulletin 4

Negotiation No: S04I0424X5K1

General Order No:

Alternate No: 0000

Item No.	Qty	Product	Description
	1	Enclosed Controls	ECN1811EKB-R63/CA29, NEMA - Freedom, NEMA 1 - General Purpose, 1 HP, 208V, Size 1, 120V/60 110V/50 Coil, Disconnect Switch - 30A 250v Class R, Drawing Number: 50-43604, LIST OF MATERIAL:, ECN1811EKB - FVNR Combo Starter, Disc. Switch, STD-SSOL OLR w/CPT

Catalog No ECN1811EKB-R63/CA29
Designation EF-3 Combo Starter

Catalog No	Qty	List of Materials
R63/C	1	R63/C-Solid State Overload, FLA 4-20
C1	1	C1 - Standard Size CPT, 120V/60HZ, 110V 50HZ secondary w/2 primary & 1 secondary fuse
A29	1	A29-1NO/1NC extra AUXCONT (Unwired without diagram)
P23	1	P23-PL - red RUN
P25	1	P25-PL - green OFF
S3	1	S3-HAND-OFF-AUTO Selector Switch

Item No.	Qty	Product	Description
	1	Enclosed Controls	ECN1811EKB-R63/BA29, NEMA - Freedom, NEMA 1 - General Purpose, .5 HP, 208V, Size 1, 120V/60 110V/50 Coil, Disconnect Switch - 30A 250v Class R, Drawing Number: 50-43604, LIST OF MATERIAL:, ECN1811EKB - FVNR Combo Starter, Disc. Switch, STD-SSOL OLR w/CPT

Catalog No ECN1811EKB-R63/BA29
Designation EF-4 Combo Starter

Catalog No	Qty	List of Materials
R63/B	1	R63/B-Solid State Overload, FLA 1-5
C1	1	C1 - Standard Size CPT, 120V/60HZ, 110V 50HZ secondary w/2 primary & 1 secondary fuse
A29	1	A29-1NO/1NC extra AUXCONT (Unwired without diagram)
P23	1	P23-PL - red RUN
P25	1	P25-PL - green OFF
S3	1	S3-HAND-OFF-AUTO Selector Switch

Item No.	Qty	Product	Description
	1	Enclosed Controls	ECN1811EKB-R63/BA29, NEMA - Freedom, NEMA 1 - General Purpose, .75 HP, 208V, Size 1, 120V/60 110V/50 Coil, Disconnect Switch - 30A 250v Class R, Drawing Number: 50-43604, LIST OF MATERIAL:, ECN1811EKB - FVNR Combo Starter, Disc. Switch, STD-SSOL OLR w/CPT

Catalog No ECN1811EKB-R63/BA29
Designation VF-1 Combo Starter

Catalog No	Qty	List of Materials
R63/B	1	R63/B-Solid State Overload, FLA 1-5
C1	1	C1 - Standard Size CPT, 120V/60HZ, 110V 50HZ secondary w/2 primary & 1 secondary fuse
A29	1	A29-1NO/1NC extra AUXCONT (Unwired without diagram)
P23	1	P23-PL - red RUN
P25	1	P25-PL - green OFF

Detail Bill of Material

Project Name: White Lake Public Safety Building
- Bulletin 4

Negotiation No: S04I0424X5K1

General Order No:

Alternate No: 0000

Catalog No S3 **Qty** 1 **List of Materials**
S3-HAND-OFF-AUTO Selector Switch

Item No.	Qty	Product	Description
	9	Non-Standard EC	FRNR15, FRNR15 Fuses
		Catalog No	FRNR15
		Designation	FRNR15

Item No.	Qty	Product	Description
	2	MCCB SERIES C	GHB CB 3P 15A 277/480VAC MAX 125/250VDC
		Catalog No	GHB3015
		Designation	GHB3015

Qty 2 **List of Materials**
GHB CB 3P 15A 277/480VAC MAX 125/250VDC

Item No.	Qty	Product	Description
	5	OEM	15 Amp 277 Volt 14 Ka
		Catalog No	GHQ1015
		Designation	GHQ1015

Qty 5 **List of Materials**
15 Amp 277 Volt 14 Ka

Eaton Selling Policy 25-000 applies.

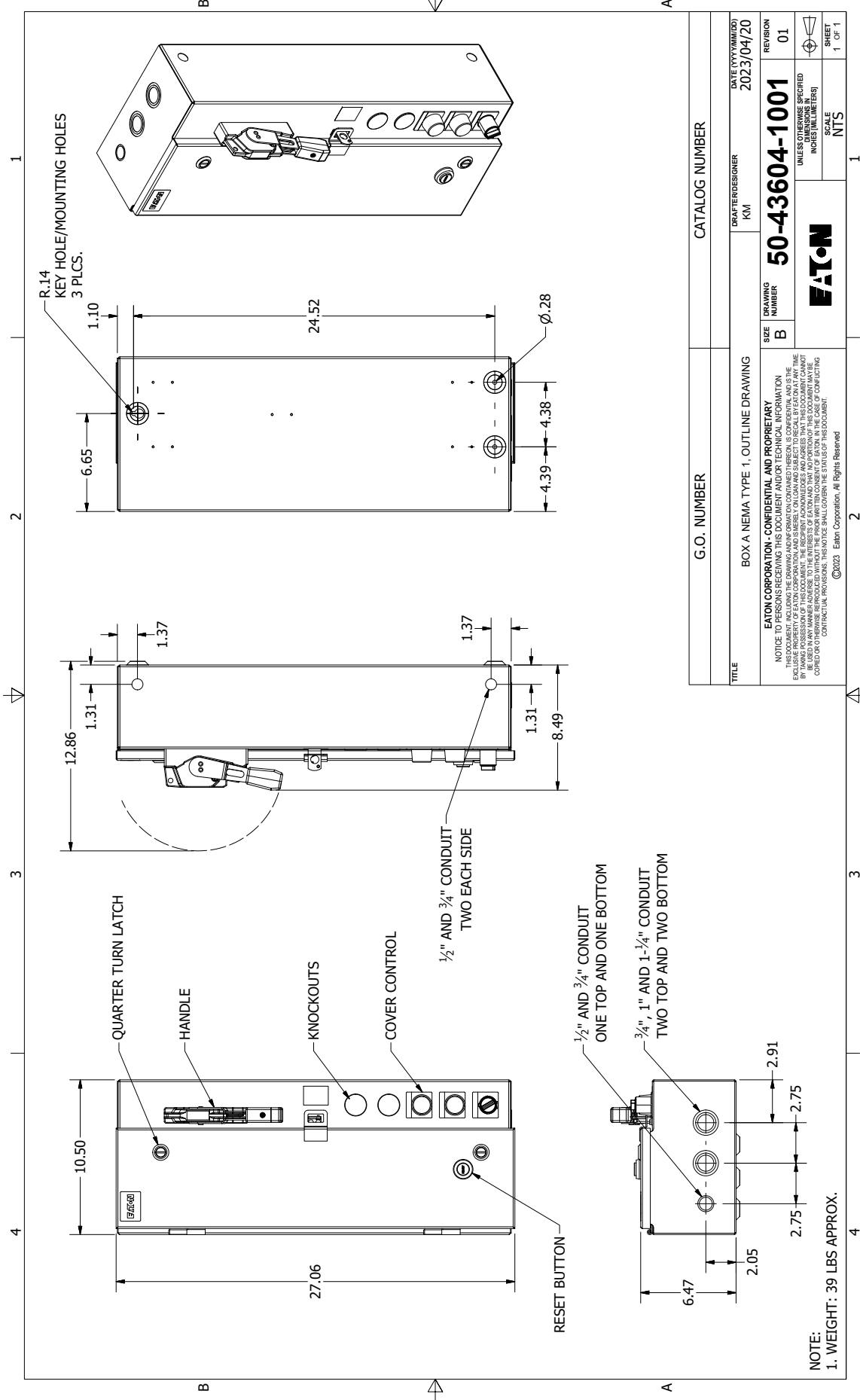
All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

General Information: ENCLOSC

Description	Value
=====	=====
PRODUCT INFORMATION	
CATALOG NUMBER:	ECN1811EAB-
COUNTRY:	USA Enclosed Control
LEAD TIME CODE:	D
LEAD TIME (BUSSINESS DAYS):	55 Days
QTY:	1
=====	=====
ENCLOSED CONTROL	
STARTER DESIGN:	NEMA - Freedom
STARTER/CONTACTOR TYPE:	Full Voltage Non-Rev.
=====	=====
STARTER CONFIGURATION	
MOTOR/LOAD VOLTAGE:	208V
COIL VOLTAGE:	120V/60 110V/50
CPT SELECTION:	C1 - Standard Size CPT, 120V/60HZ, 110V 50HZ secondary
-	w/2 primary & 1 secondary fuse
MAX HORSEPOWER RATING:	1
NOMINAL MOTOR / LOAD AMPS:	4.6 Amps
RESULTANT SIZE:	1
OVERLOAD TYPE:	SSOL - C440
OVERLOAD RANGE (AMPS, ONLY FOR SOLID STATE O/L):	4-20
=====	=====
ENCLOSURE	
DISCONNECT:	Disconnect Switch
DISCONNECT RATING (FUSE CLIP OR CIRCUIT BREAKER):	30A 250v Class R
ENCLOSURE TYPE:	NEMA 1 - General Purpose

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY ZACH TURNER		DATE 4/24/2025	 Powering Business Worldwide		
	APPROVED BY		DATE	JOB NAME White Lake Public Safety Building - Bulletin 4R		
	VERSION 1.0.5.1			DESIGNATION EF-3 Combo Starter		
			TYPE ENCLOSC	DRAWING TYPE Customer Appr.		
NEG-ALT Number S04I0424X5K1-0000	REVISION 0	DWG SIZE A	G.O.	ITEM	SHEET 1 of 1	

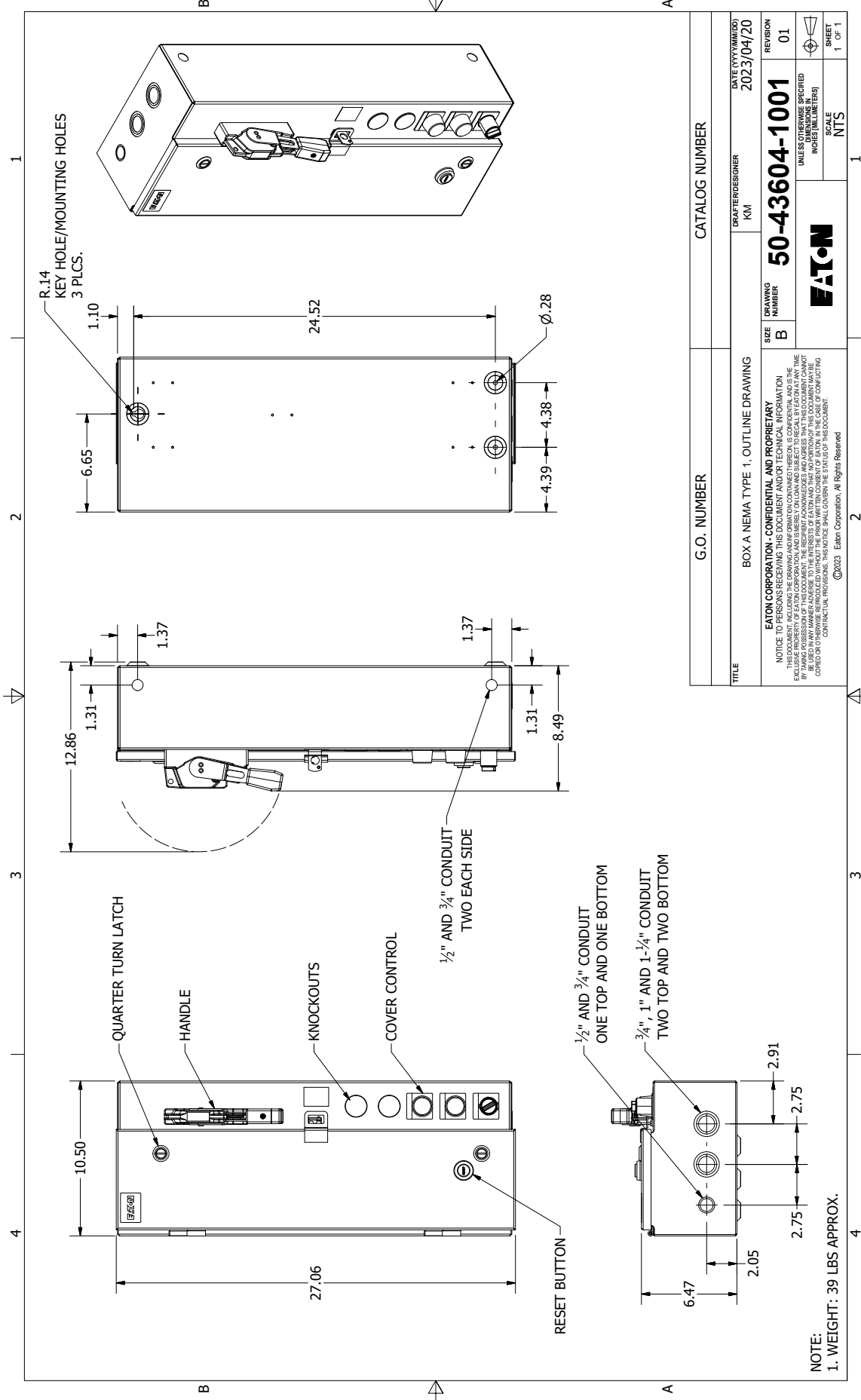


GO/NEG-Alt-Date: S04I0424X5K1-0000-4/24/2025		Job Name: White Lake Public Safety Building - Bulletin 4R
Item Number:	Catalog Number: ECN1811EKB-R63/CA29	Designation: EF-3 Combo Starter

General Information: ENCLOSC

Description	Value
=====	=====
PRODUCT INFORMATION	
CATALOG NUMBER:	ECN1811EAB-
COUNTRY:	USA Enclosed Control
LEAD TIME CODE:	D
LEAD TIME (BUSINESS DAYS):	55 Days
QTY:	1
=====	=====
ENCLOSED CONTROL	
STARTER DESIGN:	NEMA - Freedom
STARTER/CONTACTOR TYPE:	Full Voltage Non-Rev.
=====	=====
STARTER CONFIGURATION	
MOTOR/LOAD VOLTAGE:	208V
COIL VOLTAGE:	120V/60 110V/50
CPT SELECTION:	C1 - Standard Size CPT, 120V/60HZ, 110V 50HZ secondary
-	w/2 primary & 1 secondary fuse
MAX HORSEPOWER RATING:	.5
NOMINAL MOTOR / LOAD AMPS:	2.4 Amps
RESULTANT SIZE:	1
OVERLOAD TYPE:	SSOL - C440
OVERLOAD RANGE (AMPS, ONLY FOR SOLID STATE O/L):	1-5
=====	=====
ENCLOSURE	
DISCONNECT:	Disconnect Switch
DISCONNECT RATING (FUSE CLIP OR CIRCUIT BREAKER):	30A 250v Class R
ENCLOSURE TYPE:	NEMA 1 - General Purpose

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	APPROVED BY		DATE	JOB NAME White Lake Public Safety Building - Bulletin 4R		
	VERSION 1.0.5.1			DESIGNATION EF-4 Combo Starter		
			TYPE ENCLOSC	DRAWING TYPE Customer Appr.		
NEG-ALT Number S04I0424X5K1-0000	REVISION 0	DWG SIZE A	G.O.		ITEM	SHEET 1 of 1

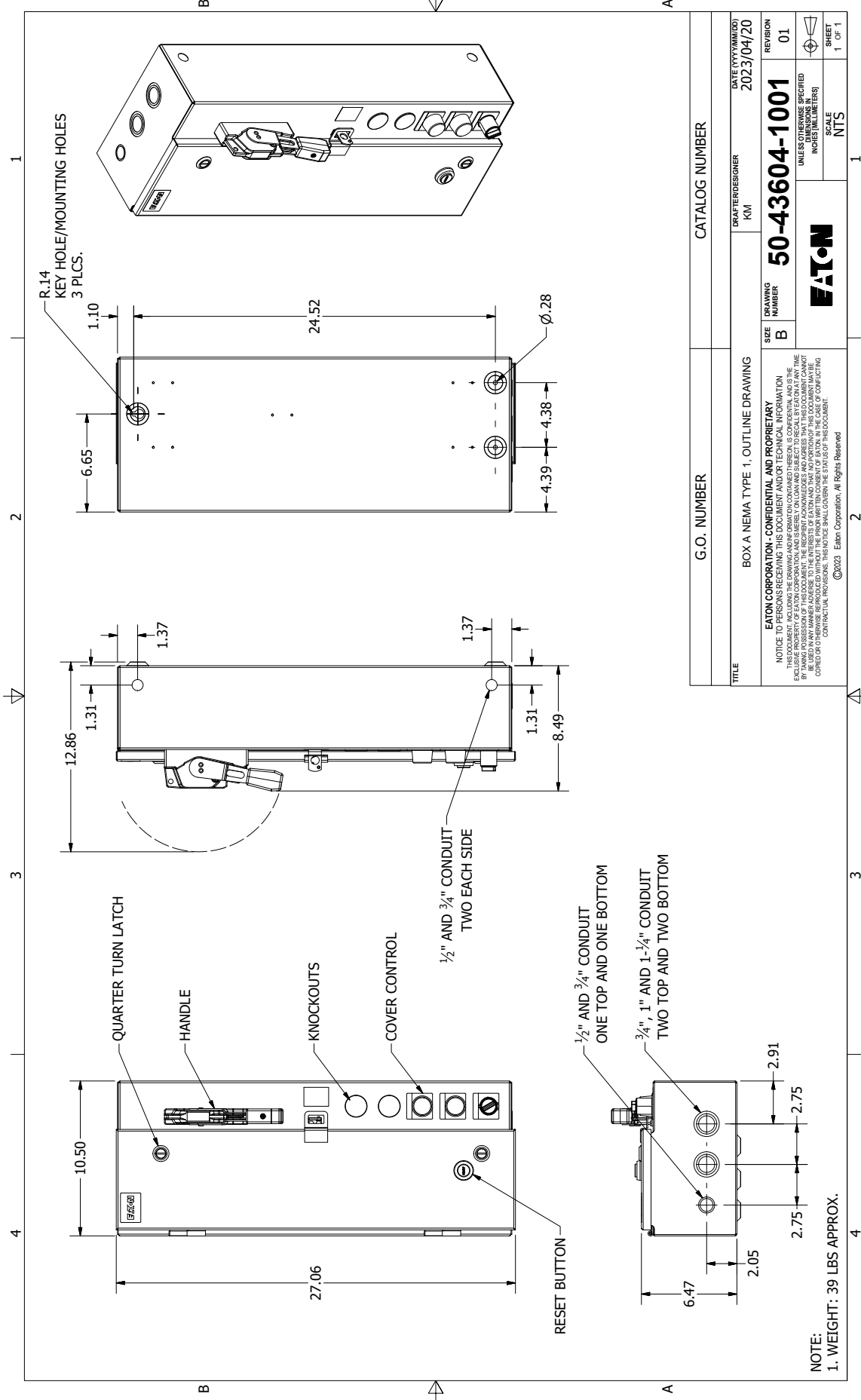


GO/NEG-Alt-Date: S04I0424X5K1-0000-4/24/2025		Job Name: White Lake Public Safety Building - Bulletin 4R
Item Number:	Catalog Number: ECN1811EKB-R63/BA29	Designation: EF-4 Combo Starter

General Information: ENCLOSC

Description	Value
=====	=====
PRODUCT INFORMATION	
CATALOG NUMBER:	ECN1811EAB-
COUNTRY:	USA Enclosed Control
LEAD TIME CODE:	D
LEAD TIME (BUSSINESS DAYS):	55 Days
QTY:	1
=====	=====
ENCLOSED CONTROL	
STARTER DESIGN:	NEMA - Freedom
STARTER/CONTACTOR TYPE:	Full Voltage Non-Rev.
=====	=====
STARTER CONFIGURATION	
MOTOR/LOAD VOLTAGE:	208V
COIL VOLTAGE:	120V/60 110V/50
CPT SELECTION:	C1 - Standard Size CPT, 120V/60HZ, 110V 50HZ secondary
-	w/2 primary & 1 secondary fuse
MAX HORSEPOWER RATING:	.75
NOMINAL MOTOR / LOAD AMPS:	3.5 Amps
RESULTANT SIZE:	1
OVERLOAD TYPE:	SSOL - C440
OVERLOAD RANGE (AMPS, ONLY FOR SOLID STATE O/L):	1-5
=====	=====
ENCLOSURE	
DISCONNECT:	Disconnect Switch
DISCONNECT RATING (FUSE CLIP OR CIRCUIT BREAKER):	30A 250v Class R
ENCLOSURE TYPE:	NEMA 1 - General Purpose

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	APPROVED BY		DATE		JOB NAME White Lake Public Safety Building - Bulletin 4R	
	VERSION 1.0.5.1		TYPE ENCLOSC		DRAWING TYPE Customer Appr.	
NEG-ALT Number S04I0424X5K1-0000	REVISION 0	DWG SIZE A	G.O.		ITEM	SHEET 1 of 1



GO/NEG-Alt-Date: S04I0424X5K1-0000-4/24/2025		Job Name: White Lake Public Safety Building - Bulletin 4R
Item Number:	Catalog Number: ECN1811EKB-R63/BA29	Designation: VF-1 Combo Starter

Comments & Clarifications

FRNR15 Fuses

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	APPROVED BY		DATE		
	VERSION 1.0.0.0		TYPE NSP2		DRAWING TYPE Customer Appr.
NEG-ALT Number S04I0424X5K1-0000	REVISION 0	DWG SIZE A		G.O.	ITEM SHEET 1 of 1