

**ADDENDUM 4**

<b>Addendum #</b>	4	<b>Date Issued</b>	Aug 30, 2024
<b>Project Name   Job #</b>	Cass Rural Water District Kindred Office		20241810
<b>Bid Date   Time</b>	Thursday, Sep 5, 2024		2:00 PM

**THIS ADDENDUM AMENDS AND BECOMES PART OF THE CONTRACT DOCUMENTS FOR EAPC PROJECT 20241810 DATED 8/12/2024, RESPECTIVELY. EACH BIDDER SHALL ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY MARKING THE ADDENDUM NUMBER AND DATE ON THE BID FORM.**

**GENERAL****MECHANICAL****ELECTRICAL**

See attached sheets (E801 & E901) for revisions

**CLARIFICATIONS****Architectural:**

Exterior signage will be provided by owner. Install likely to be performed by signage company. Verify with owner.

-Electrical contractor required to provide power to exterior signage locations.

**SPECIFICATIONS****PRIOR APPROVALS****DRAWINGS**

E801	MOTOR & EQUIPMENT SCHEDULE & RISER & ONE-LINE DIAGRAM	See attached revisions
E901	SCHEDULES	See attached revisions



PLAN HOLDERS LIST  
 CRWD Kindred Office  
 971 Elm Street, Kindred, ND  
 EAPC Project 20241810

BID DATE: 09-05-2024  
 BID TIME: 2:00 PM CST

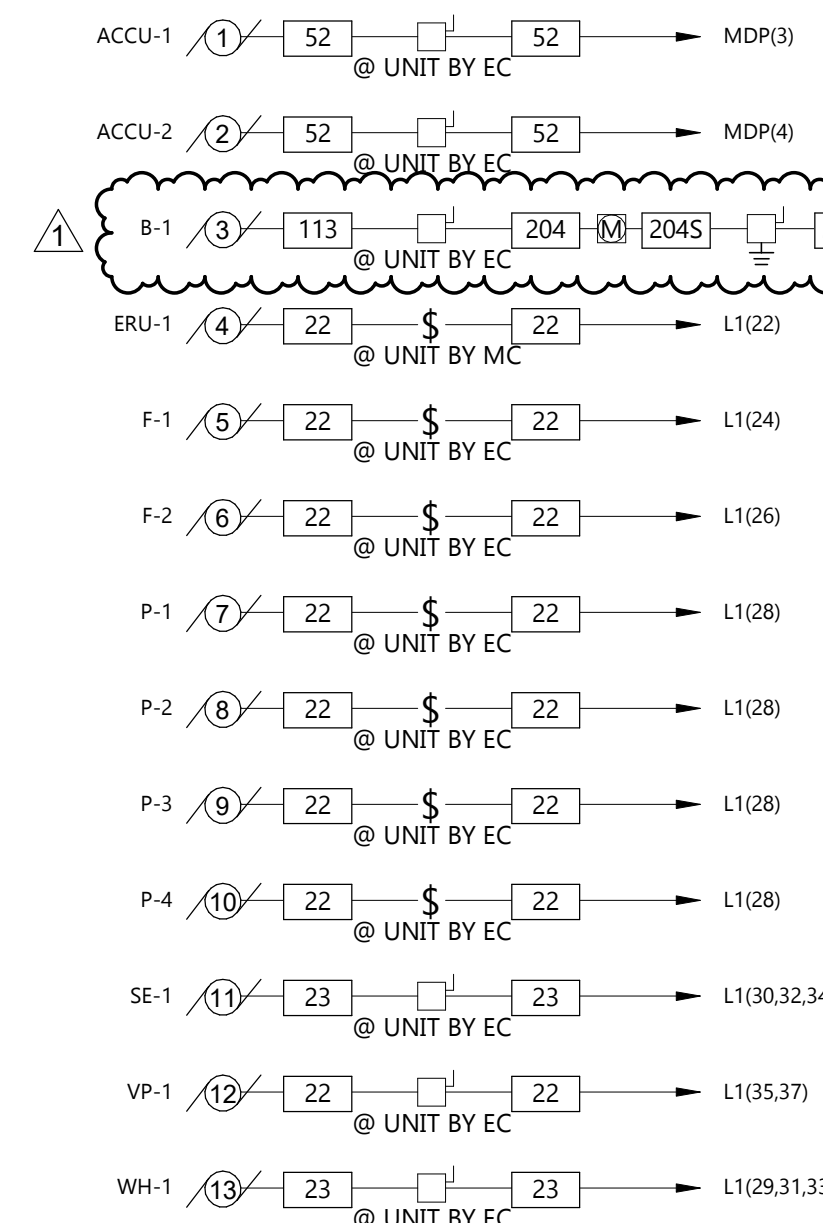
<b>PLAN HOLDER</b>	<b>CONTACT PERSON</b>	<b>ADDRESS</b>	<b>CITY</b>	<b>STATE</b>	<b>ZIP</b>	<b>PHONE</b>	<b>FAX</b>	<b>EMAIL</b>
Sentry	Brady Burghardt	1928 Calvin Dr	Watertown	SD	57201	605-868-7188		bradyb@sentryusa.com
Grafstrom	Nate Mankie	1809 43rd St. N - Unit A	Fargo	ND	58102	701-964-8300		nmankie@grafstrom.com
Border Construction	Dave Bartell	4321 14th Ave. N	Fargo	ND	58102	701-478-3113		dave@borderconstruction.net
Lee Jones & Son Construction	Mason Beier	2900 Fiechtner Dr.	Fargo	ND	58103	701-293-1845		masonbeier@leejonesandson.com
Diversified Contractors Inc.	Jesse Morrow	635 10th St. NE	West Fargo	ND	58078	701-232-6490		jesse@diversifiedcontractorsinc.net
Meinecke-Johnson	Sam Johnson	902 28th St.S, Suite 1	Fargo	ND	58103	701-552-0480		samjohnson@meineckejohnsoncompany.com
Dietrich Construction	Wes Nelson	4041 36th Ave. S	Fargo	ND	58104	701-430-2275		wnelson@dietrichfargo.com
Rice Lake	Brian Liska	22360 County Rd. 12 PO Box 296	Deerwood	MN	56444	218-670-1729		brian_liska@ricelake.org
Minko Construction	Marcus Livingston	3335 35th Ave. S	Fargo	ND	58104	651-353-7274		marcus@minko.com
Meridian Commercial Construction	Justin Shannon	6218 53rd Ave. S	Fargo	ND	58104	701-356-0397		justin.shannon@meridiancommercialconstruction.com
Northern Construction and Consulting	Ken Kuivenhoven					701-251-4220		bids.ncc@gmail.com
Valint Construction Services	Gina Bailey	3217 Fiechtner Drive S. Suite E	Fargo	ND	58103	218-454-0900		Gina@valintconstructionservices.com
<b>BUILDERS EXCHANGES</b>								
Aberdeen Builders Exchange		302 N. Jackson Street	Aberdeen	SD	57401	605-225-4733	605-225-4733	dakotabuild@midconetwork.com
Bismarck-Mandan Builders Exchange		P. O. Box 550	Mandan	ND	58554	701-667-4322	701-667-5217	bismanbldrex@gmail.com
Fargo-Moorhead Bldrs. Exchange		P. O. Box 10076	Fargo	ND	58106	701-237-6772	701-232-1653	upload
Grand Forks Builders Exchange		2211 S. Washington St. Ste D	Grand Forks	ND	58201	701-772-7798	701-772-0387	planroom@bntgf.com
Minnesota Builders Exchange		1123 Glenwood Avenue	Minneapolis	MN	55405	612-381-2620	612-381-2621	new project: <a href="mailto:jb@mbex.org">jb@mbex.org</a> addendums: <a href="mailto:addenda@mbex.org">addenda@mbex.org</a>
Minot Builders Exchange		2424 Burdick Expy East	Minot	ND	58701	701-838-5353	701-839-0638	mail or fax / <a href="mailto:mbe1@srt.com">mbe1@srt.com</a>
Plains Builders Exchange		220 N. Kiwanis Ave.	Sioux Falls	SD	57104-2530	605-334-8886	605-334-0112	info@plainsbuilders.com
Sioux Falls Builders Exchange		1418 "C" Avenue	Sioux Falls	SD	57104	605-357-8687	605-357-8655	info@sfbx.com
Dodge Construction Network		34 Crosby Dr Ste 202	Bedford	MA	01730	844-326-3826		dodge.docs@construction.com
Construction Industry Center		2771 Plant St.	Rapid City	SD	57702	605-343-5252		chrissy@constructionindustrycenter.com
<b>GENERAL CONTRACTOR</b>								
<b>MECHANICAL CONTRACTOR</b>								
<b>ELECTRICAL CONTRACTOR</b>								
<b>SUPPLIER</b>								

**KEYNOTE LEGEND:**

◊ <<< INDICATES KEYNOTE ON PLAN

- OFF PEAK METER SHALL BE LOCATED ON EXTERIOR OF BUILDING. COORDINATE WITH UTILITY ON ALL WIRING REQUIREMENTS AND COSTS FOR INSTALLATION OF METER.

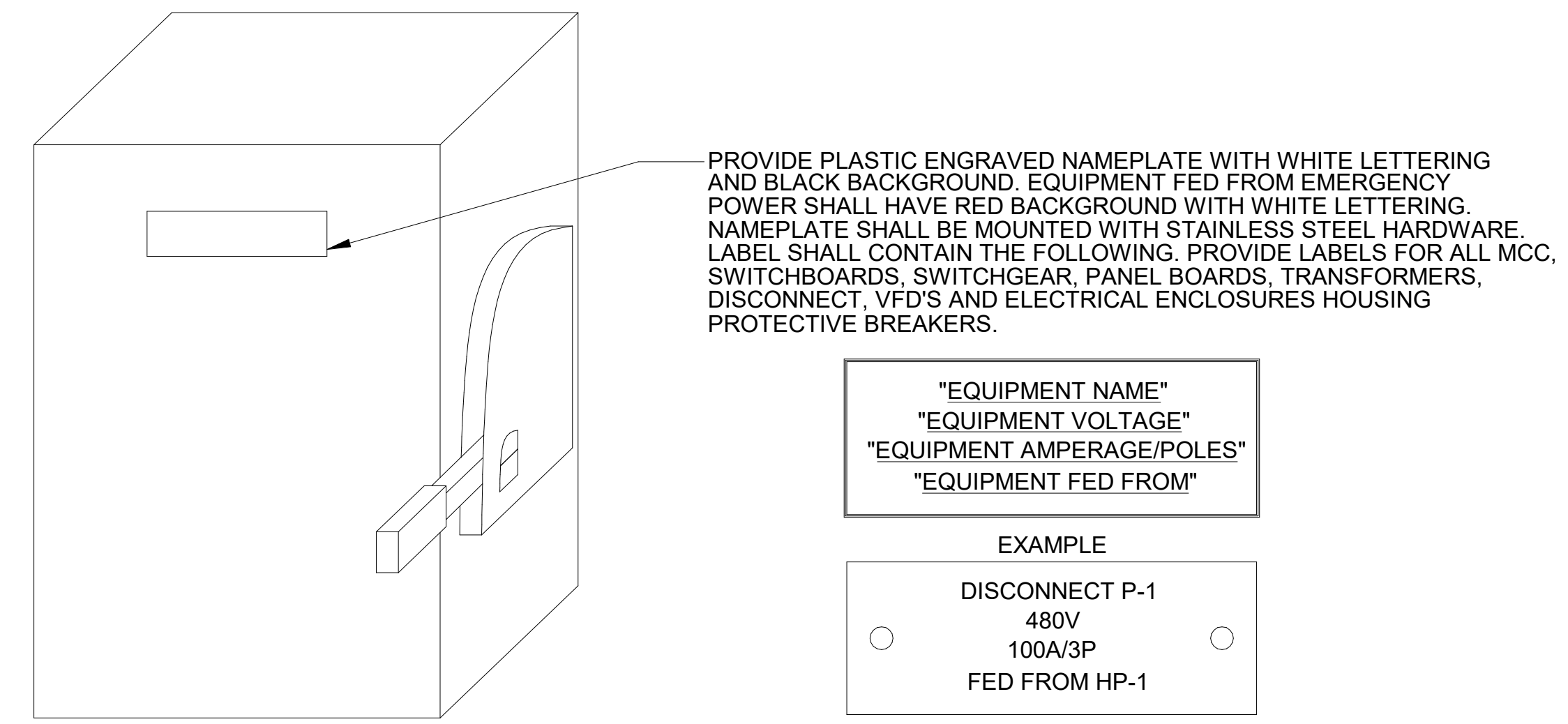
FEEDER SCHEDULE COPPER		
AMPACITY	FEEDER TAG	CONDUIT & THHN WIRE 75°C
20	22	3/4" C - 2 #12 & 1 #12 GND
20	23	3/4" C - 3 #12 & 1 #12 GND
30	33	3/4" C - 3 #10 & 1 #10 GND
50	52	1" C - 2 #6 & 1 #10 GND
110	113	1 1/2" C - 3 #2 & 1 #6 GND
200	204	2 1/2" C - 4 #3/0 & 1 #6 GND
200	204S	2" C - 2 #4/0 & 1 2/0
400	404	4" C - 4 #500KCMIL & 1 #3 GND
400	404S	4" C - 4 #500KCMIL



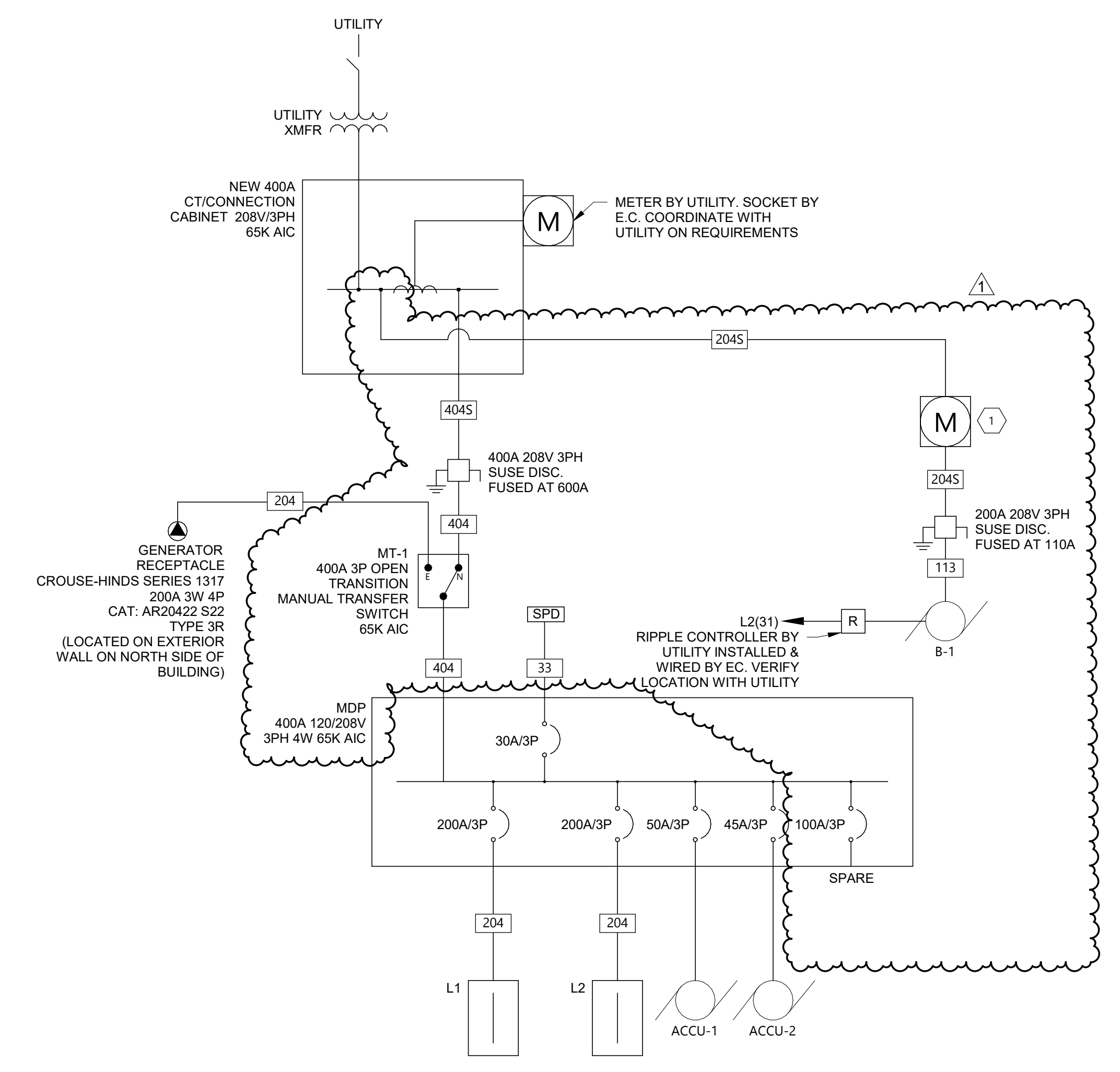
**1 MOTOR RISER**  
E801 NOT TO SCALE

MOTOR AND EQUIPMENT SCHEDULE																							
LEGEND:	DESCRIPTION	MOTOR #	FURN BY	LOCATION ROOM #	HP	KW	MCA	FLA	MOP	VOLTAGE	PH (Ø)	STARTER			CONTROL		POWER WIRING	INTERLOCKS		DISCONNECT		NOTES	
												TYPE	SIZE	BY	BY	WIRING		BY	TO	BY	SIZE/TYPER		NEMA
CM - COMBINATION	ACCU-1	1		OUTSIDE	MC		34.8		50	208 V	1						EC			EC	60/NF/3	3R	
CB - CIRCUIT BREAKER	ACCU-2	2		OUTSIDE	MC		28.3		45	208 V	1						EC			EC	60/NF/3	3R	
EC - ELECTRICAL CONTRACTOR	B-1	3		MECH 123	MC	31.5			110	120 V	3						EC			EC	200/NF/3P	1	1
EX - EXISTING	ERU-1	4		ATTIC	MC			5.6	20	120 V	1						EC			MC	TOGGLE	1	
F - FUSED	F-1	5		ATTIC	MC			13.7	15	120 V	1						EC			EC	TOGGLE	1	
	F-2	6		ATTIC	MC			9.6	15	120 V	1						EC			EC	TOGGLE	1	
	P-1	7		MECH 123	MC	FRAC				120 V	1						EC			EC	TOGGLE	1	
	P-2	8		MECH 123	MC	FRAC				120 V	1						EC			EC	TOGGLE	1	
	P-3	9		MECH 123	MC	FRAC				120 V	1						EC			EC	TOGGLE	1	
	P-4	10		MECH 123	MC	FRAC				120 V	1						EC			EC	TOGGLE	1	
	SE-1	11		MECH 123	MC	1/2				208 V	3	CM	1	EC			EC			EC	30/NF/3	1	
	VP-1	12		MECH 123	MC		3			208 V	1						EC			EC	30/NF/3	NOTE 2	2
	WH-1	13		MECH 123	MC		4.5			208 V	3						EC			EC	30/NF/3	1	

- NOTES:
- BOILER SHALL BE ON OFF PEAK METER. COORDINATE WITH UTILITY FOR CONNECTION REQUIREMENTS.
  - WIRING METHODS AND DISCONNECT SHALL BE RATED FOR HAZARDOUS CLASSIFICATION 1 DIVISION 1.



**3 EQUIPMENT NAMEPLATE DETAIL**  
E801 NOT TO SCALE



**2 ONE-LINE DIAGRAM**  
E801 NOT TO SCALE

CITY KINDRED  
STATE NORTH DAKOTA

PROJECT DESCRIPTION  
OFFICE BLDG & COLD STORAGE SHOP

CITY KINDRED  
STATE NORTH DAKOTA

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM #4	08/29/2024
CD	100% CONSTRUCTION DOCUMENTS	08/12/2024

PROJECT NO: 20241810  
DRAWN BY: ML  
CHECKED BY: BW

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STAMP



DRAWING TITLE  
MOTOR & EQUIPMENT SCHEDULE & RISER AND ONE-LINE DIAGRAM

**E801**

### NEW PANEL: L1

LOCATION: MECH 115  
SUPPLY FROM: MDP  
MOUNTING: SURFACE  
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye  
PHASING: 3  
WIRES: 4

A.I.C. RATING: 22K AIC  
CALCULATED A.I.C.:  
MAINS TYPE: MLO  
MAINS RATING: 200 A  
BUS RATING: 200 A

CKT	CIRCUIT DESCRIPTION	CODES	TRIP	POLES	A	B	C	POLES	TRIP	CODES	CIRCUIT DESCRIPTION	CKT		
1	RECEPT RM 109 & 110		20 A	1	1800 VA	659 VA		1	20 A		LIGHTING FIRST FLOOR	2		
3	RECEPT RM 111		20 A	1		900 VA	386 VA		1	20 A	LIGHTING FIRST FLOOR	4		
5	RECEPT RM 112		20 A	1			1080 VA	294 VA		1	20 A	LIGHTING FIRST FLOOR	6	
7	RECEPT RM 113		20 A	1	180 VA	378 VA				1	20 A	LIGHTING FIRST FLOOR	8	
9	RECEPT RM 114		20 A	1		180 VA	17 VA			1	20 A	EM LIGHTING	10	
11	RECEPT RM 115		20 A	1			360 VA	325 VA		1	20 A	LIGHTING SECOND FLOOR	12	
13	RECEPT RM 116		20 A	1	360 VA	100 VA				1	20 A	LIGHTING EXTERIOR	14	
15	RECEPT RM 116		20 A	1		720 VA	132 VA			1	20 A	LIGHTING EXTERIOR	16	
17	RECEPT RM 116		20 A	1			1080 VA	540 VA		1	20 A	RECEPT EXTERIOR	18	
19	RECEPT RM 116		20 A	1	1080 VA								20	
21	RECEPT RM SECOND FLOOR		20 A	1		1080 VA	672 VA			1	20 A	ERU-1 (#6)	22	
23	RECEPT RM SECOND FLOOR		20 A	1			540 VA	1644 VA		1	20 A	F-1 (#7)	24	
25	ELECTRIC HEATER		20 A	2	1000 VA	1152 VA				1	20 A	F-2 (#8)	26	
27	ELECTRIC HEATER		20 A	2		1000 VA	200 VA			1	20 A	P-1, P-2, P-3, P-4 (#9-12)	28	
29							1500 VA	300 VA					30	
31	WH-1 (#14)		20 A	3	1500 VA	300 VA				3	20 A	SE-1 (#13)	32	
33						1500 VA	300 VA						34	
35	VP-1 (#15)		20 A	2	1500 VA	750 VA		1500 VA	750 VA		2	20 A	ELECTRIC HEATER	36
37	SPARE		20 A	1			0 VA	0 VA					38	
39	SPARE		20 A	1			0 VA	0 VA					40	
41	SPARE		20 A	1			0 VA	0 VA					42	

<b>CONNECTED LOAD:</b>	10759 VA	7087 VA	9913 VA	
<b>EXISTING LOAD:</b>	0 VA	0 VA	0 VA	
<b>TOTAL LOAD:</b>	10759 VA	7087 VA	9913 VA	<b>HIGH PHASE</b>
<b>FEED THRU AMPS:</b>	0 A	0 A	0 A	10759 VA
<b>TOTAL AMPS:</b>	93 A	59 A	86 A	

**CODES:**

1	SEE DRAWINGS FOR CONDUIT & CONDUCTORS	6	EXISTING BREAKER ON, VERIFY SPARE	11	LSI TRIP UNIT
2	EXISTING BREAKER AND LOAD TO REMAIN	7	NEW BREAKER AND LOAD	12	PROVIDE LOCK ON DEVICE
3	EXISTING BREAKER AND NEW LOAD	8	GFCI BREAKER		
4	EXISTING BREAKER TO BECOME SPARE	9	DEDICATED BREAKER		
5	EXISTING BREAKER OFF, VERIFY SPARE	10	HANDLE TIED BREAKER		

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Heating	3500 VA	100.00%	3500 VA	
Lighting	2291 VA	125.00%	2864 VA	<b>TOTAL CONN. LOAD:</b> 27759 VA
Motor	12068 VA	100.00%	12068 VA	<b>TOTAL EST. DEMAND:</b> 28332 VA
Other	0 VA	0.00%	0 VA	<b>TOTAL CONN.:</b> 77 A
Power	360 VA	100.00%	360 VA	<b>TOTAL EST. DEMAND:</b> 79 A
Receptacle	9540 VA	100.00%	9540 VA	

**NOTES:**

### NEW PANEL: L2

LOCATION: MECH 115  
SUPPLY FROM: MDP  
MOUNTING: SURFACE  
ENCLOSURE: TYPE 1

VOLTS: 120/208 Wye  
PHASING: 3  
WIRES: 4

A.I.C. RATING: 22K AIC  
CALCULATED A.I.C.:  
MAINS TYPE: MLO  
MAINS RATING: 200 A  
BUS RATING: 200 A

CKT	CIRCUIT DESCRIPTION	CODES	TRIP	POLES	A	B	C	POLES	TRIP	CODES	CIRCUIT DESCRIPTION	CKT	
1	RECEPT RM 101, 108, 117 & 118		20 A	1	1180 VA	1260 VA				1	20 A	RECEPT RM 107	2
3	RECEPT RM 106		20 A	1		1440 VA	900 VA			1	20 A	RECEPT RM 105	4
5	RECEPT RM 105		20 A	1			720 VA	360 VA		1	20 A	RECEPT RM 105	6
7	RECEPT RM 105		20 A	1	360 VA	360 VA				1	20 A	RECEPT RM 105	8
9	RECEPT RM 105		20 A	1		360 VA	1000 VA			1	20 A	RECEPT RM 105 FRIDGE	10
11	RECEPT RM 105		20 A	1			360 VA	1000 VA		1	20 A	RECEPT RM 105 FRIDGE	12
13	RECEPT RM 105		20 A	1	540 VA	360 VA				1	20 A	RECEPT RM 104	14
15						1500 VA	360 VA			1	20 A	RECEPT RM 104	16
17	RECEPT RM 105 STOVE		30 A	2			1500 VA	1260 VA		1	20 A	RECEPT RM 102	18
19	RECEPT RM 103		20 A	1	180 VA	180 VA				1	20 A	RECEPT RM 103	20
21	RECEPT RM 102		20 A	1		1260 VA	360 VA			1	20 A	RECEPT RM 103	22
23	RECEPT RM 103		20 A	1			720 VA	200 VA		1	20 A	HOOD	24
25	RECEPT EXTERIOR		20 A	1	0 VA	100 VA				1	20 A	SIGNS	26
27	RECEPT RM 105		20 A	1		360 VA	0 VA			1	20 A	SPARE	28
29	RECEPT RM 105		20 A	1			360 VA	0 VA		1	20 A	SPARE	30
31	B-1 (#3) CONTROL		20 A	1	31500 VA	0 VA				1	20 A	SPARE	32
33	SPARE		20 A	1		0 VA	0 VA			1	20 A	SPARE	34
35	SPARE		20 A	1		0 VA	0 VA			1	20 A	SPARE	36
37	SPARE		20 A	1	0 VA	0 VA		0 VA	0 VA	1	20 A	SPARE	38
39	SPARE		20 A	1		0 VA	0 VA			1	20 A	SPARE	40
41	SPARE		20 A	1			0 VA	0 VA		1	20 A	SPARE	42

<b>CONNECTED LOAD:</b>	36020 VA	7540 VA	6480 VA	
<b>EXISTING LOAD:</b>	0 VA	0 VA	0 VA	
<b>TOTAL LOAD:</b>	36020 VA	7540 VA	6480 VA	<b>HIGH PHASE</b>
<b>FEED THRU AMPS:</b>	0 A	0 A	0 A	36020 VA
<b>TOTAL AMPS:</b>	302 A	64 A	54 A	

**CODES:**

1	SEE DRAWINGS FOR CONDUIT & CONDUCTORS	6	EXISTING BREAKER ON, VERIFY SPARE	11	LSI TRIP UNIT
2	EXISTING BREAKER AND LOAD TO REMAIN	7	NEW BREAKER AND LOAD	12	PROVIDE LOCK ON DEVICE
3	EXISTING BREAKER AND NEW LOAD	8	GFCI BREAKER		
4	EXISTING BREAKER TO BECOME SPARE	9	DEDICATED BREAKER		
5	EXISTING BREAKER OFF, VERIFY SPARE	10	HANDLE TIED BREAKER		

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Motor	31600 VA	100.00%	31600 VA	
Power	3660 VA	100.00%	3660 VA	<b>TOTAL CONN. LOAD:</b> 50040 VA
Receptacle	14780 VA	83.83%	12390 VA	<b>TOTAL EST. DEMAND:</b> 47650 VA
				<b>TOTAL CONN.:</b> 139 A
				<b>TOTAL EST. DEMAND:</b> 132 A

**NOTES:**

### NEW SWITCHBOARD: MDP

LOCATION: MECH 115  
SUPPLY FROM: UTILITY  
MOUNTING: WALL  
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye  
PHASES: 3  
WIRES: 4

A.I.C. RATING: 65K AIC  
MAINS TYPE: MLO  
MAINS RATING: 400 A  
MCB RATING: 400 A

CKT	CIRCUIT DESCRIPTION	POLES	RATING	A	B	C	CODE	REMARKS
1	L1	3	200 A	10759 VA	7087 VA	9913 VA		
2	L2	3	200 A	7540 VA	6480 VA	36020 VA		
3	ACCU-1 (#1)	2	50 A	3619 VA		3619 VA		
5	SPARE	3	200 A	0 VA	0 VA	0 VA		
7	SURGE SUPPRESSION DEVICE	3	30 A	0 VA	0 VA	0 VA		
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

<b>CONNECTED LOAD:</b>	24861 VA	16510 VA	49552 VA	
<b>EXISTING LOAD:</b>	0 A	0 A	0 A	
<b>TOTAL AMPS:</b>	218 A	138 A	424 A	

**CODE:**

1	SEE DRAWINGS FOR CONDUIT AND CONDUCTOR SIZES	5	EXISTING BREAKER OFF, VERIFY SPARE	9	DEDICATED BREAKER
2	EXISTING BREAKER AND LOAD TO REMAIN	6	EXISTING BREAKER ON, VERIFY SPARE	10	HANDLE TIED BREAKER
3	EXISTING BREAKER AND NEW LOAD	7	NEW BREAKER AND NEW LOAD	11	SHUNT-TRIP BREAKER
4	EXISTING BREAKER TO BECOME SPARE	8	GFCI BREAKER	12	PROVIDE LOCK ON DEVICE

CLIENT  
KINDRED CRWD

PROJECT DESCRIPTION  
OFFICE BLDG & COLD  
STORAGE SHOP

CITY KINDRED  
STATE NORTH DAKOTA

ISSUE DATES

1	ADDENDUM #4	08/29/2024
CD	100% CONSTRUCTION DOCUMENTS	08/12/2024
MARK	DESCRIPTION	DATE

PROJECT NO: 20241810  
DRAWN BY: ML  
CHECKED BY: BW

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DRAWING TITLE  
SCHEDULES

E901