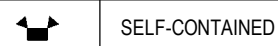
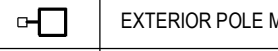
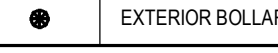
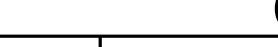
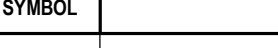
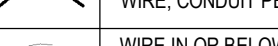
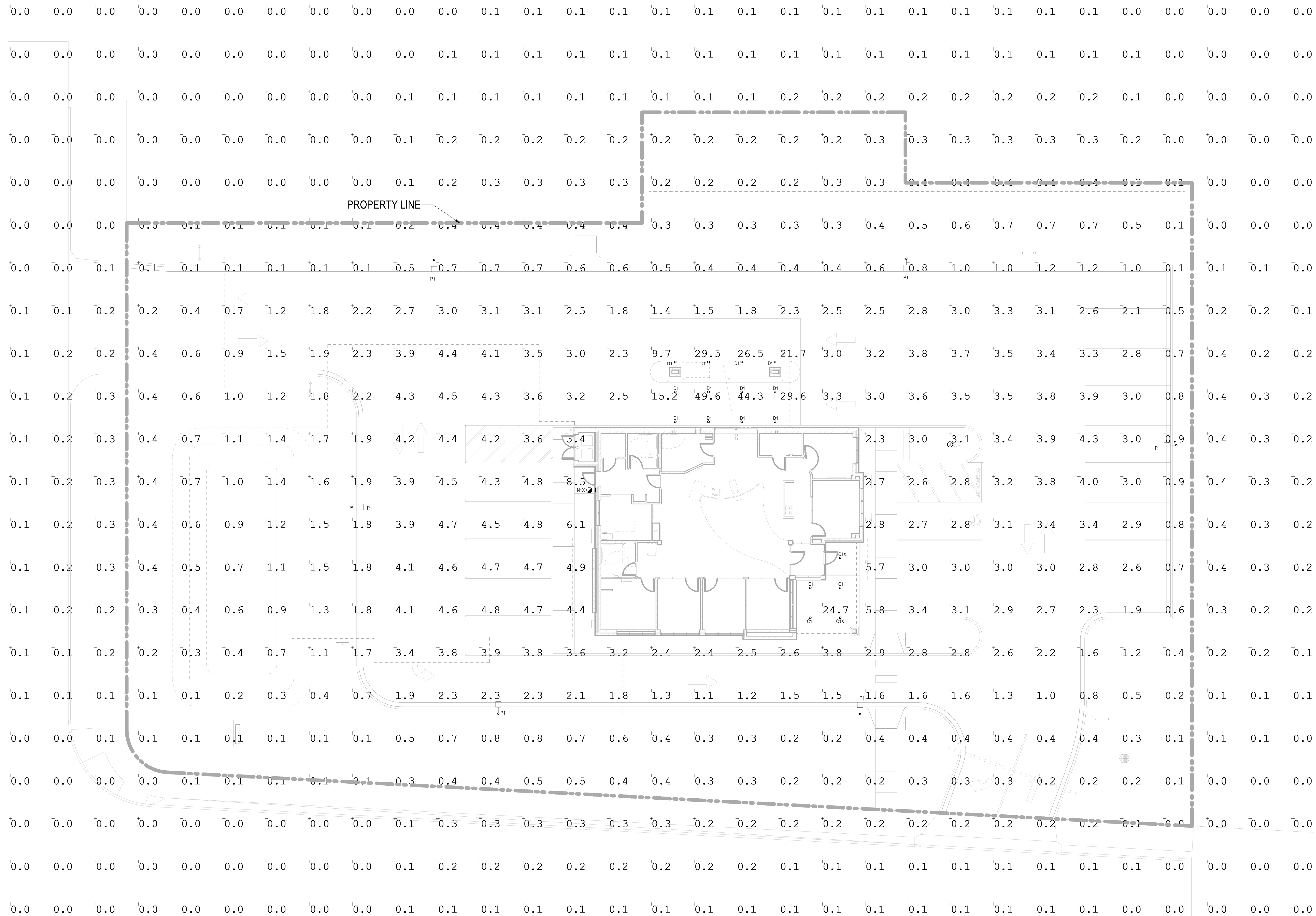


ELECTRICAL ABBREVIATIONS	
1P	1 POLE (NUMBER DENOTES QUANTITY)
1P1W	1 POLE, 1 WIRE (NUMBER DENOTES QUANTITY)
2W	2 WIRE (NUMBER DENOTES QUANTITY)
72"	MOUNTING HEIGHT (CENTERLINE TO FLOOR OR GRADE)
A	AMPERE
AC	ABOVE COUNTER
AF	AMP FRAME
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AEF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ARCH	ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BCE	BUILDING CONTROLLER ENCLOSURE
BLDG	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CD	CANDELA
CKT	CIRCUIT
CLG	CEILING
CONN	CONNECTION
CONT	CONTINUOUS (OUS) (ED) (ATION)
CONTR	CONTRACTOR
CP	CORD AND PLUG
CTE	CURRENT TRANSFORMER
CTE	CONNECT TO EXISTING
CJ	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DOWN	DOWN
DSD	DUCT SMOKE DETECTOR
DWG	DRAWING
Δ	DELTA
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
FA	FIRE ALARM
FBO	FURNISHED BY OTHERS
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METALLIC CONDUIT
FUSW	FUSE/SWITCH RATINGS (AMPS)
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFPE	GROUND FAULT PROTECTION EQUIPMENT
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
HOA	HAND-OFF-AUTO SWITCH
HP	HORSEPOWER
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HZ	HERTZ
IAM	INDIVIDUAL ADDRESSABLE MODULE
IG	ISOLATED GROUND
IMC	INTERMEDIATE METALLIC CONDUIT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS

ELECTRICAL ABBREVIATIONS	
KVA	KILOVOLT AMPERE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
LCT	LOAD CENTER TYPE
LFMC	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LTG	LIGHTING
MAG	MAGNETIC
MAX	MAXIMUM
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MAIN DISTRIBUTION PANEL
MIN	MINIMUM
MISC	MISCELLANEOUS
MOC	MAXIMUM OVERCURRENT PROTECTION
MTS	MANUAL TRANSFER SWITCH
#	NUMBER
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OL	OVERLOAD
P	POLE
PB	PULL BOX
PV	POST INDICATING VALVE
PWL	PANEL
PR	PAR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
PWR	POWER
Ø OR PH	PHASE
REQ	REQUIRED
RSC	RIGID STEEL CONDUIT
SCCR	SHORT CIRCUIT CURRENT RATING
SEC	SECONDARY
SIG	SIGNAL
SP	SPARE
SS	STAINLESS STEEL
SSNR	SOFT START NON-REVERSING
SSR	SOFT START REVERSING
STP	SHIELDED TWISTED PAIR
SW	SWITCH
SWBD	SWITCHBOARD
T-STAT	THERMOSTAT
TT	THERMAL TOGGLE
TYP	TYPICAL
UG	UNDERGROUND
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WP	WEATHERPROOF
XMR	TRANSFORMER
Y	WYE

POWER			LIGHTING CONTROLS			COMMUNICATIONS / DATA			FIRE ALARM		
SYMBOL	DESCRIPTION	MTG HT	SYMBOL	DESCRIPTION	MTG HT	SYMBOL	DESCRIPTION	MTG HT	SYMBOL	DESCRIPTION	MTG HT
	RECEPTACLE TYPE LEGEND WP = WEATHERPROOF SS = STAINLESS STEEL FACEPLATE GFCI = GROUND FAULT USB = USB TYPE RECEPTACLE T = TAMPERPROOF RECEPTACLE H = HOSPITAL GRADE RECEPTACLE	18"		LIGHTING CONTROL TYPE LEGEND X = SINGLE POLE SWITCH X DENOTES SWITCH LEG 2 = DOUBLE POLE SWITCH 3 = 3-WAY SWITCH 4 = 4-WAY SWITCH EP = EXPLOSION PROOF SWITCH E = EMERGENCY SWITCH LV = LOW VOLTAGE SWITCH PL = PILOT LIGHT SWITCH K = KEY OPERATED SWITCH L = LIGHTED TOGGLE SWITCH MC = MOMENTARY CONTACT SWITCH VS = WALL SENSOR VACANCY SWITCH OS = WALL SENSOR OCCUPANCY SENSOR	46"		TELEPHONE CABINET - SIZE AS INDICATED			FIRE ALARM CONTROL PANEL	
							RACK - SIZE AS INDICATED			REMOTE FIRE ALARM ANNUNCIATOR PANEL	
							COMMUNICATIONS BOARD - SIZE AS INDICATED			FIRE ALARM BATTERY CABINET	
							FLOOR BOX			FIRE ALARM AUXILIARY CABINET	
							TELEPHONE	18"		FIRE ALARM NAC PANEL	
	FOURPLEX RECEPTACLE	18"		LIGHTING CONTROL TYPE LEGEND X = SINGLE POLE SWITCH X DENOTES SWITCH LEG 2 = DOUBLE POLE SWITCH 3 = 3-WAY SWITCH 4 = 4-WAY SWITCH EP = EXPLOSION PROOF SWITCH E = EMERGENCY SWITCH LV = LOW VOLTAGE SWITCH PL = PILOT LIGHT SWITCH K = KEY OPERATED SWITCH L = LIGHTED TOGGLE SWITCH MC = MOMENTARY CONTACT SWITCH VS = WALL SENSOR VACANCY SWITCH OS = WALL SENSOR OCCUPANCY SENSOR	46"		TELEPHONE - WALL HUNG	46"		MAGNETIC DOOR HOLD OPEN	
	SIMPLEX RECEPTACLE	18"					COMBINATION PHONE/DATA OUTLET	18"		FIRE ALARM BELL AND LIGHT	90"
	CEILING MOUNTED DUPLEX RECEPTACLE	CEILING					DATA OUTLET	18"		FIRE ALARM HORN, WALL MOUNT	82"
	DUPLEX RECEPTACLE, LOWER SWITCHED	18"					DATA - CEILING MOUNTED	CLG		FIRE ALARM MINI HORN (M), LOW TONE (L), WALL MOUNT	82"
	DUPLEX RECEPTACLE, SWITCHED	18"					HANDSET			FIRE ALARM SPEAKER	82"
	HORIZONTAL MOUNT DUPLEX RECEPTACLE	18"		TYPE D: DIGITAL DIMMER TYPE P: DIGITAL 4-SCENE PRESET SWITCH W/ RAISE/LOWER CONTROL TYPE S: DIGITAL 2-BUTTON ON/OFF SWITCH LIGHTING CONTROL TYPE LEGEND X = SINGLE POLE SWITCH X DENOTES SWITCH LEG 2 = DOUBLE POLE SWITCH 3 = 3-WAY SWITCH 4 = 4-WAY SWITCH EP = EXPLOSION PROOF SWITCH E = EMERGENCY SWITCH LV = LOW VOLTAGE RELAY TS = TIME SWITCH C = CONTACTOR CL = CURRENT LIMITER VS = VACANCY SENSOR OS = OCCUPANCY SENSOR RC = ROOM CONTROLLER PS = PHOTOSENSOR ER = EMERGENCY BYPASS RELAY B = REMOTE BALLAST DRIVER BAT = REMOTE BATTERY	46"		SPEAKER - WALL MOUNTED			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	SPECIAL PURPOSE RECEPTACLE - LETTER INDICATES TYPE - SEE NOTE 3	18"					SPEAKER - CEILING MOUNTED	94"		FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	CEILING MOUNT SPECIAL PURPOSE RECEPTACLE - LETTER INDICATES TYPE - SEE NOTE 3	CEILING					SOUND REINFORCEMENT - CEILING MOUNTED			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	DUPLEX RECEPTACLE, EMERGENCY CIRCUIT	18"					WALL FLOOR COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	FOURPLEX RECEPTACLE, EMERGENCY CIRCUIT	18"					CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	RECESSED JUNCTION BOX W/ FLEX CONNECTION	CEILING		TYPE D: DIGITAL DIMMER TYPE P: DIGITAL 4-SCENE PRESET SWITCH W/ RAISE/LOWER CONTROL TYPE S: DIGITAL 2-BUTTON ON/OFF SWITCH LIGHTING CONTROL TYPE LEGEND X = SINGLE POLE SWITCH X DENOTES SWITCH LEG 2 = DOUBLE POLE SWITCH 3 = 3-WAY SWITCH 4 = 4-WAY SWITCH EP = EXPLOSION PROOF SWITCH E = EMERGENCY SWITCH LV = LOW VOLTAGE RELAY TS = TIME SWITCH C = CONTACTOR CL = CURRENT LIMITER VS = VACANCY SENSOR OS = OCCUPANCY SENSOR RC = ROOM CONTROLLER PS = PHOTOSENSOR ER = EMERGENCY BYPASS RELAY B = REMOTE BALLAST DRIVER BAT = REMOTE BATTERY	46"		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	RECESSED JUNCTION BOX - LETTER INDICATES TYPE - SEE NOTE 4	CEILING					WALL COMMUNICATIONS DEVICE SC = SCREEN CONTROLLER TV = TV OUTLET V = VOLUME CONTROL			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	SURFACE MOUNTED JUNCTION BOX - LETTER INDICATES TYPE - SEE NOTE 4	CEILING					CEILING COMMUNICATIONS DEVICE M = MICROPHONE OUTLET SC = SCREEN CONTROLLER TERMINATION BOX TV = TV OUTLET			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	SURFACE MOUNTED JUNCTION BOX, WALL - LETTER INDICATES TYPE - SEE NOTE 4	18"					CEILING COMMUNICATIONS DEVICE M = MICROPHONE OUTLET SC = SCREEN CONTROLLER TERMINATION BOX TV = TV OUTLET			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	FLOOR BOX WITH DEVICES INDICATED	FLOOR					CEILING COMMUNICATIONS DEVICE M = MICROPHONE OUTLET SC = SCREEN CONTROLLER TERMINATION BOX TV = TV OUTLET			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	PULLBOX SIZED AS REQUIRED OR NOTED						CEILING COMMUNICATIONS DEVICE M = MICROPHONE OUTLET SC = SCREEN CONTROLLER TERMINATION BOX TV = TV OUTLET			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
POWER DISTRIBUTION			LIGHTING			COMMUNICATIONS / DATA			FIRE ALARM		
SYMBOL	DESCRIPTION	MTG HT	SYMBOL	DESCRIPTION	MTG HT	SYMBOL	DESCRIPTION	MTG HT	SYMBOL	DESCRIPTION	MTG HT
	GENERATOR - SIZE VARIES			FIXTURE RECESSED MOUNTED	CEILING		WALL FLOOR COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	TRANSFORMER - SIZE VARIES			FIXTURE SURFACE MOUNTED	CEILING		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	PANELBOARD	WALL OR FLOOR		PENDANT MOUNTED STRIP FIXTURE			CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	SWITCHBOARD/DISTRIBUTION PANELBOARD	WALL OR FLOOR		WALL MOUNTED STRIP FIXTURE	WALL		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	GROUND			DOWN LIGHT FIXTURE	CEILING		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	METER			WALL MOUNTED FIXTURE	WALL		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	MANHOLE			PENDANT FIXTURE			CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	HANDHOLE			TRACK LIGHTING, HEADS SPACED AS INDICATED			CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	AUTOMATIC TRANSFER SWITCH			LIGHT FIXTURE ON EMERGENCY CIRCUIT			CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	EXIT LIGHT FACE DIRECTIONAL ARROWS AS INDICATED	WALL		EXIT LIGHT FACE DIRECTIONAL ARROWS AS INDICATED	WALL		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	EXIT LIGHT FACE DIRECTIONAL ARROWS AS INDICATED	CEILING		EXIT LIGHT FACE DIRECTIONAL ARROWS AS INDICATED	CEILING		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	EXIT LIGHT WITH EMERGENCY HEADS DIRECTIONAL ARROWS AS INDICATED	WALL		EXIT LIGHT WITH EMERGENCY HEADS DIRECTIONAL ARROWS AS INDICATED	WALL		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	EXIT LIGHT WITH EMERGENCY HEADS DIRECTIONAL ARROWS AS INDICATED	CEILING		EXIT LIGHT WITH EMERGENCY HEADS DIRECTIONAL ARROWS AS INDICATED	CEILING		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	SELF-CONTAINED EMERGENCY LIGHTING UNIT	WALL		SELF-CONTAINED EMERGENCY LIGHTING UNIT	WALL		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	SELF-CONTAINED EMERGENCY LIGHTING UNIT	CEILING		SELF-CONTAINED EMERGENCY LIGHTING UNIT	CEILING		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	EXTERIOR POLE MOUNTED FIXTURE	GRADE		EXTERIOR POLE MOUNTED FIXTURE	GRADE		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	EXTERIOR BOLLARD FIXTURE	GRADE		EXTERIOR BOLLARD FIXTURE	GRADE		CEILING COMMUNICATIONS DEVICE A = AUDIO OUTLET H = HORN IC = CALL STATION M = MICROPHONE MA = MICROPHONE REMOTE ANTENNA MM = MULTIMEDIA OUTLET P = PROJECTOR RS = ROOM SCHEDULER WM = WIRELESS MICROPHONE SYSTEM			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
MOTORS			CABLING			SECURITY			FIRE ALARM		
SYMBOL	DESCRIPTION	MTG HT	SYMBOL	DESCRIPTION	MTG HT	SYMBOL	DESCRIPTION	MTG HT	SYMBOL	DESCRIPTION	MTG HT
	PUSHBUTTON - SINGLE			WIRE, CONDUIT PER SPECIFICATIONS			SECURITY CALL BUTTON			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	PUSHBUTTON - DOUBLE			WIRE IN OR BELOW SLAB OR UNDER GROUND (UG), CONDUIT PER SPECIFICATIONS			SECURITY ALARM PUSHBUTTON (DURESS BUTTON)			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	PUSHBUTTON - TRIPLE			WIRE COUNTS WHEN MORE THAN 2 WIRES IN CONDUIT PLUS GROUND			ELECTRIC STRIKE			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	MOTOR RATED TOGGLE SWITCH			HOME RUN			ELECTRIC LATCH			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	SWITCH / FUSE ASSEMBLY			CONDUIT SLEEVE			SECURITY MAGNETIC CONTACT			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	SWITCH / THERMAL OVERLOAD			CONDUIT STUB			SECURITY MOTION SENSOR - REQUEST TO EXIT			FIRE ALARM STROBE ## DENOTES CANDELA RATING	82"
	COMBO MOTOR STARTER / DISCONNECT SWITCH	60"					FACILITY INTERCOM	46"			
	MOTOR						SECURITY KEYPAD	46"			
	EQUIPMENT W/ELECTRICAL CONNECTION. REFER TO MOTOR SCHEDULE. (MECHANICAL, FOOD SERVICE, ETC.)						SECURITY CARD READER	46"			
	NON-FUSED DISCONNECT SWITCH	54"					INDICATOR LIGHT - CEILING MOUNTED	46"			
	FUSED DISCONNECT SWITCH	54"					INDICATOR LIGHT - WALL MOUNTED				
	MOTOR STARTER	54"					PAGING HORN				
	MUSHROOM HEAD PUSHBUTTON						CCTV CAMERA - CEILING MOUNTED				
	EQUIPMENT CONNECTION						CCTV CAMERA - WALL MOUNTED				
							VIDEO MONITOR				
							EMERGENCY PHONE - WALL MOUNTED				
							EM				



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Tel: 952.278.8880

PROJECT

**MAYO EMPLOYEES
FEDERAL CREDIT UNION**

NEW BUILDING
605 WEST AVE S.
LA CROSSE, WI

[illegible]

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota

Matthew W. Fults

40887	2026-03-27
Req No.	Date



Emanuelson-Podas, Inc.
7706 Bush Lake Road
Edina, MN 55439
(952) 930-0060 | www.epinc.com

SITE PLAN - PHOTOMETRICS

Drawn By: FSB

Checked By: KDM

E0.2

3392.0002
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**MAYO EMPLOYEES
FEDERAL CREDIT UNION**

NEW BUILDING
105 WEST AVE S.
A CROSSE, WI

[illegible]

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota

Matthew W. Fults

0887

Reg No.

2026-03-27

Date _____



Manuelson-Podas, Inc.
205 Bush Lake Road
Plymouth, MN 55439
(763) 930-0060 | www.epinc.com

SITE PLAN - ELECTRICAL

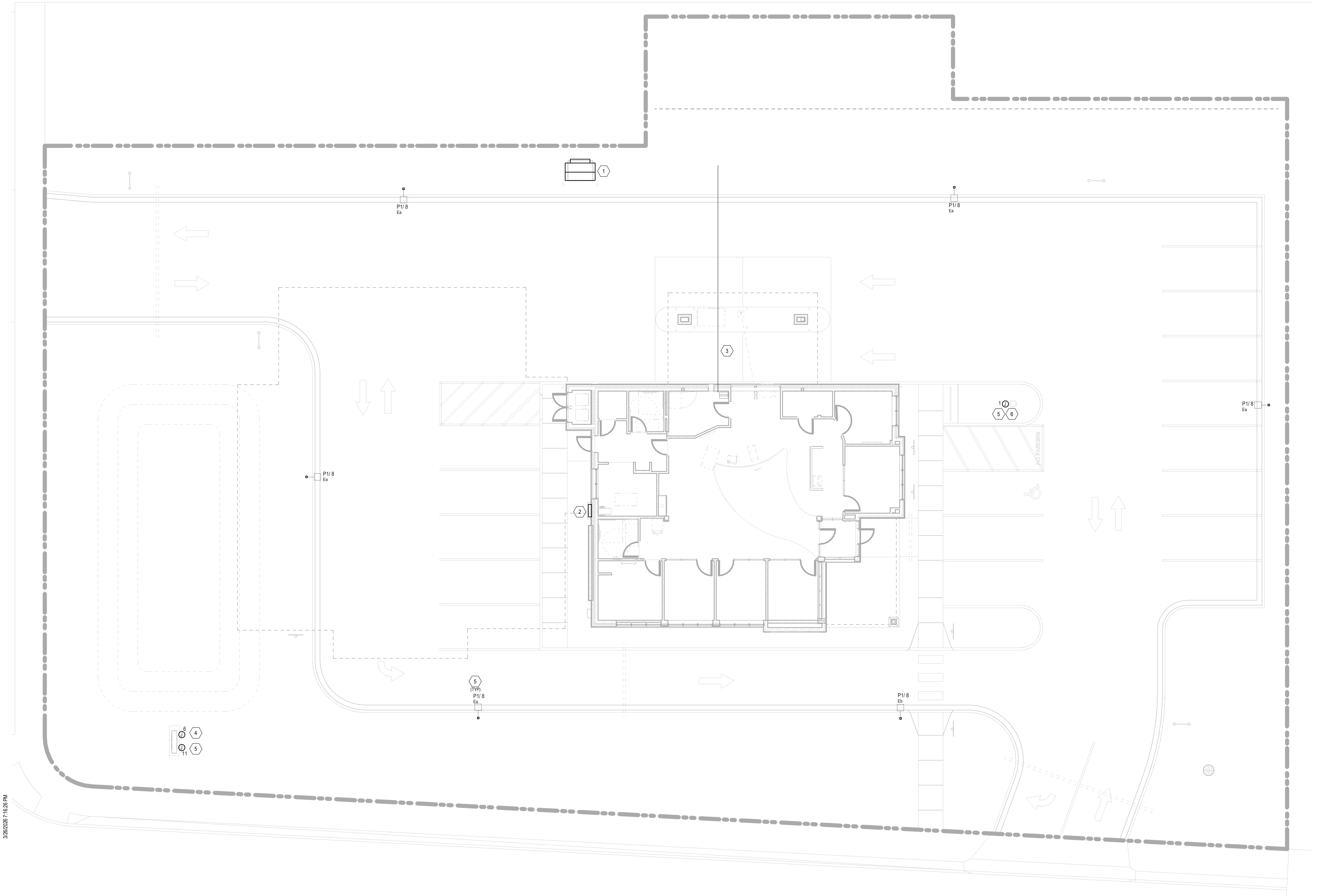
own By: FSB

Checked By: KDM

E0.4

92.0002

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1 ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"

SCALE: 1" = 10'-0"



PROJECT

MAYO EMPLOYEES
FEDERAL CREDIT UNION

NEW BUILDING
605 WEST AVE S.
LA CROSSE, WI

ISSUED SET 2026-03-27

REVISIONS

DATE NO

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Matthew W. Fuls

40887

Reg No.

2026-03-27

Date



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Edina, MN 55425
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MAIN LEVEL PLAN -
LIGHTING

Drawn By: FSB

Checked By: KDM

E1.1

GENERAL NOTES:

- ALL EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE FED FROM AN UNSWITCHED HOT CONDUCTOR.
- ALL NORMAL CIRCUITING TO BE FED FROM PANEL A UNLESS NOTED OTHERWISE. CONTRACTOR TO DETERMINE BEST ROUTE FOR CONDUIT AND WIRING.
- CONTRACTOR SHALL COMPLETE AND SUBMIT LIGHTING UTILITY REBATE APPLICATIONS IF AVAILABLE WITH UTILITY. COORDINATE ALL LIGHTING REBATES WITH OWNER.
- WHERE EXACT HEIGHTS ARE NOTED VERIFY WITH THE ARCHITECT PRIOR TO INSTALLATION.

KEY NOTES:

- SECURITY FIXTURE. DO NOT SWITCH. IN AREAS WITH DIMMING CONTROL CONNECT 0-10V CONTROL WIRES TO FIXTURE DRIVER FOR EQUAL LEVEL CONTROL. WHEN POWER IS OFF TO ASSOCIATED SWITCH-LEG THIS FIXTURE SHALL COME TO FULL ILLUMINATION. PROVIDE RELAY TO OPEN 0-10V CONTROL WIRES AS REQUIRED.
- ROUTE THROUGH LIGHTING CONTROL RELAYS.
- PROVIDE CONNECTION TO EXTERIOR BUILDING SIGNAGE. LETTERS WILL BE INDIVIDUALLY LIT. CONFIRM EXACT REQUIREMENTS AND LOCATIONS.
- PROVIDE (1) SPOT CENTER OFF SWITCHES (OCA) FOR CONTROL OF OPEN/CLOSE SIGN. PROVIDE ENGRAVED LABEL ON SWITCH PLATE WITH SPECIFIC LOAD.
- LIGHTING CONTROL PANEL. SEE CONTROL SCHEDULE AND SPECIFICATION FOR REQUIREMENTS.
- LIGHTING CONTROL STATION. EACH BUTTON SHALL HAVE PRINTED BLACK ON CLEAR LABEL WITH LOAD DESCRIPTION. AT MULTI-STATION LOCATIONS MOUNT ALL UNDER SHARED COVER PLATE.
- PROVIDE EMERGENCY INVERTER SURE-LITE #MM-M-350 OR EQUAL AND MOUNT IN ACCESSIBLE LOCATION FOR EMERGENCY OPERATION OF TYPE 'B' 1'X' LIGHT FIXTURES.
- PROVIDE DMX/RGBW CONTROLLER FOR EXTERIOR COLOR CHANGING TAPE LIGHTING 'J1' SWITCH-LEG "ch1". VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
- MOUNT LED TAPE IN BOTTOM SIDE OF ROOF EAVE TO WASH-DOWN SIDE OF BUILDING. CUT FIXTURE TO LENGTH. MOUNT POWER SUPPLY IN NEAREST CONCEALED ACCESSIBLE CEILING SPACE.
- PROVIDE OCCUPANCY SENSOR WITH AUXILIARY CONTACT TO CONTROL CONVENIENCE RECEPTACLES IN SPACE. REFER TO POWER PLAN FOR RECEPTACLE LOCATIONS.

LIGHTING CONTROL SUMMARY

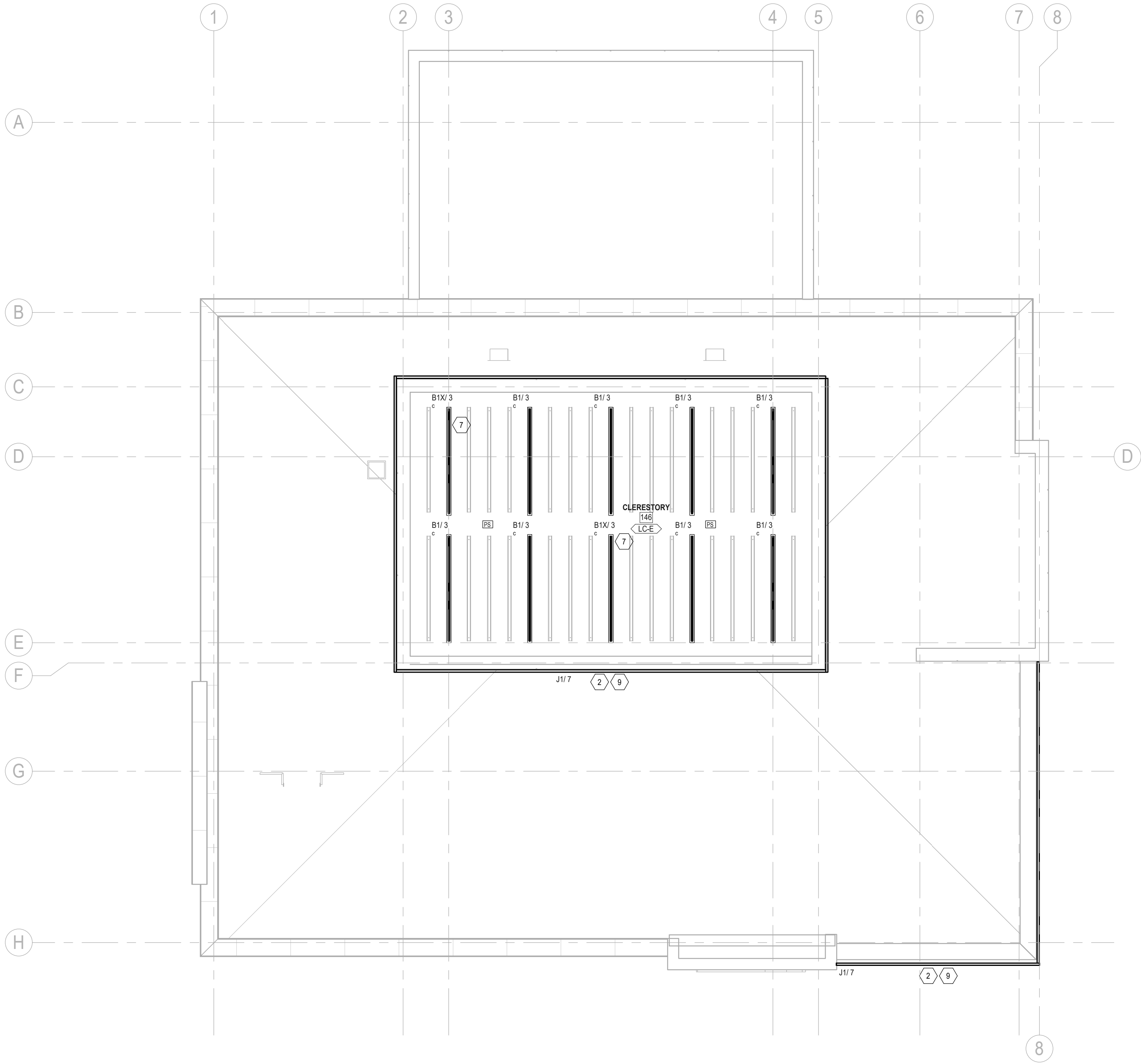
GENERAL NOTES:	
1.	IF NO CONTROL STRATEGY IS LISTED, LIGHTING CONTROLS SHALL BE MANUAL, LINE VOLTAGE (WITH 0-10 V DIMMING, WHERE SHOWN) AND CONTAIN NO AUTOMATIC FUNCTION.
2.	SEE PLANS FOR TYPE, LOCATION AND QUANTITY OF SENSORS.
3.	TIME SCHEDULES SHALL BE DEFINED BY THE OWNER. PROVIDE A COORDINATION MEETING WITH THE OWNER TO DETERMINE SCHEDULES.
4.	ALL LIGHTING CONTROLS SHALL BE COMMISSIONED. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5.	THE TYPICAL SPACES LISTED IN EACH SEQUENCE ARE NOT INTENDED TO BE ALL INCLUSIVE, OR EXCLUSIVE TO ANY SPACE AND ARE LISTED AS GENERAL REFERENCE ONLY.
6.	ADDITIONAL BUTTONS ARE PERMITTED TO COMPLY WITH THE CONTROL REQUIREMENTS LISTED BELOW.
LC-A	
OCC SENSOR FUNCTION:	OCCUPANCY, 100% ON / OFF
TIME-SWITCH FUNCTION:	NONE
MANUAL LTG CONTROL:	NONE
DAYLIGHT RESPONSE:	NONE
TYPICAL SPACES:	CORRIDOR
LC-B	
OCC SENSOR FUNCTION:	VACANCY, MANUAL ON / AUTO OFF (CEILING OR SWITCH MOUNT SENSOR AS SHOWN)
TIME-SWITCH FUNCTION:	NONE
MANUAL LTG CONTROL:	2-BUTTON ON / OFF
DAYLIGHT RESPONSE:	NONE
TYPICAL SPACES:	STORAGE ROOM / PRIVATE RESTROOM
LC-C	
OCC SENSOR FUNCTION:	VACANCY, MANUAL ON / AUTO OFF (CEILING OR SWITCH MOUNT SENSOR AS SHOWN)
TIME-SWITCH FUNCTION:	NONE
MANUAL LTG CONTROL:	2-BUTTON ON / OFF & RAISE / LOWER WITH 0-10V DIMMING
DAYLIGHT RESPONSE:	CLG MTD PHOTOCELL OR INTEGRAL TO WALL BOX DIMMER AS INDICATED, CONTINUOUS DIMMING
TYPICAL SPACES:	PRIVATE OFFICE WITH DAYLIGHT
LC-D	
OCC SENSOR FUNCTION:	VACANCY, MANUAL ON / AUTO OFF (CEILING OR SWITCH MOUNT SENSOR AS SHOWN)
TIME-SWITCH FUNCTION:	NONE
MANUAL LTG CONTROL:	2-BUTTON ON / OFF & RAISE / LOWER WITH 0-10V DIMMING
DAYLIGHT RESPONSE:	NONE
TYPICAL SPACES:	PRIVATE OFFICE WITHOUT DAYLIGHT
LC-E	
OCC SENSOR FUNCTION:	NONE
TIME-SWITCH FUNCTION:	SCHEDULE ON DURING BUSINESS HOURS
MANUAL LTG CONTROL:	PRESET STATION W/ RAISE/LOWER CONTROL, DIMMERS PER ZONE
DAYLIGHT RESPONSE:	CEILING MOUNTED PHOTOCELL, CONTINUOUS DIMMING IN DAYLIT ZONE (WHERE PRESENT)
TYPICAL SPACES:	TELLER, WAITING, WORK AREA, CLERESTORY
LC-F	
OCC SENSOR FUNCTION:	OCCUPANCY, AUTO ON TO 50% / AUTO OFF (CEILING OR SWITCH MOUNT SENSOR AS SHOWN)
TIME-SWITCH FUNCTION:	NONE
MANUAL LTG CONTROL:	PRESET STATION W/ RAISE/LOWER CONTROL, DIMMERS PER ZONE
DAYLIGHT RESPONSE:	NONE
TYPICAL SPACES:	CONFERENCE ROOM
LC-G	
OCC SENSOR FUNCTION:	OCCUPANCY, 100% ON / OFF
TIME-SWITCH FUNCTION:	SCHEDULE ON DURING BUSINESS HOURS AFTER FIRST OCCUPANCY ACTIVATION, OCCUPANCY FOR 20 MINUTES AFTER HOURS.
MANUAL LTG CONTROL:	PRESET STATION W/ RAISE/LOWER CONTROL, DIMMERS PER ZONE
DAYLIGHT RESPONSE:	CEILING MOUNTED PHOTOCELL, CONTINUOUS DIMMING IN DAYLIT ZONE (WHERE PRESENT)
TYPICAL SPACES:	VESTIBULE



1 MAIN LEVEL PLAN - LIGHTING

SCALE: 3/16" = 1'-0"

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1 CLERESTORY PLAN - LIGHTING
SCALE: 3/16" = 1'-0"

GENERAL NOTES:

- A. ALL EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE FED FROM AN UNSWITCHED HOT CONDUCTOR.
- B. ALL NORMAL CIRCUITING TO BE FED FROM PANEL A UNLESS NOTED OTHERWISE. CONTRACTOR TO DETERMINE BEST ROUTE FOR CONDUIT AND WIRING.
- C. CONTRACTOR SHALL COMPLETE AND SUBMIT LIGHTING UTILITY REBATE APPLICATIONS IF AVAILABLE WITH UTILITY. COORDINATE ALL LIGHTING REBATES WITH OWNER.
- D. WHERE EXACT HEIGHTS ARE NOTED VERIFY WITH THE ARCHITECT PRIOR TO INSTALLATION.

KEY NOTES:

1. SECURITY FIXTURE. DO NOT SWITCH. IN AREAS WITH DIMMING CONTROL CONNECT 0-10V CONTROL WIRES TO FIXTURE DRIVER FOR EQUAL LEVEL CONTROL. WHEN POWER IS OFF TO ASSOCIATED SWITCH-LEG THIS FIXTURE SHALL COME TO FULL ILLUMINATION. PROVIDE RELAY TO OPEN 0-10V CONTROL WIRES AS REQUIRED.
2. ROUTE THROUGH LIGHTING CONTROL RELAYS.
3. PROVIDE CONNECTION TO EXTERIOR BUILDING SIGNAGE. LETTERS WILL BE INDIVIDUALLY LIT. CONFIRM EXACT REQUIREMENTS AND LOCATIONS.
4. PROVIDE (1) SPOT CENTER OFF SWITCHES (OCs) FOR CONTROL OF OPEN/CLOSE SIGN. PROVIDE ENGRAVED LABEL ON SWITCH PLATE WITH SPECIFIC LOAD.
5. LIGHTING CONTROL PANEL. SEE CONTROL SCHEDULE AND SPECIFICATION FOR REQUIREMENTS.
6. LIGHTING CONTROL STATION. EACH BUTTON SHALL HAVE PRINTED BLACK ON CLEAR LABEL WITH LOAD DESCRIPTION. AT MULTI-STATION LOCATIONS MOUNT ALL UNDER SHARED COVER PLATE.
7. PROVIDE EMERGENCY INVERTER SURE-LITE #MM-350 OR EQUAL AND MOUNT IN ACCESSIBLE LOCATION FOR EMERGENCY OPERATION OF TYPE 'B1X' LIGHT FIXTURES.
8. PROVIDE DMX/RGBW CONTROLLER FOR EXTERIOR COLOR CHANGING COVE LIGHTING 'R1Y'SWITCH-LEG "ch1". VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.
9. MOUNT LED TAPE IN BOTTOM SIDE OF ROOF EAVE TO WASH-DOWN SIDE OF BUILDING. CUT FIXTURE TO LENGTH. MOUNT POWER SUPPLY IN NEAREST CONCEALED ACCESSIBLE CEILING SPACE.



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PROJECT

MAYO EMPLOYEES
FEDERAL CREDIT UNION

NEW BUILDING
605 WEST AVE S.
LA CROSSE, WI

ISSUED SET 2026-03-27

REVISIONS

DATE	NO

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota

Matthew W. Fuls

40887

Reg No.

2026-03-27

Date



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CLERESTORY LEVEL PLAN
- LIGHTING

Drawn By: FSB

Checked By: KDM

E1.2

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OF THE UNITED STATES ARCHITECTS

- A. FROM EACH VOICE/DATA AND TV OUTLET PROVIDE TWO GANG BOX W/ SINGLE GANG MIDDING AND (1) 1" CONDUIT STUBBED INTO CONCEALED ACCESSIBLE CEILING SPACE.
- B. FROM EACH ALARM ROUGH-IN PROVIDE J-BOX AND ROUTE (1) 3/4" CONDUIT TO ALARM HEADEND LOCATION. COORDINATE LOCATION WITH SECURITY VENDOR.
- C. SEE MOTOR CONNECTION SCHEDULE FOR MECHANICAL EQUIPMENT CONNECTIONS. SEE MECHANICAL PLANS FOR EXACT EQUIPMENT LOCATIONS.
- D. EXACT LOCATION OF ELECTRICAL DEVICES MUST BE VERIFIED WITH FURNITURE SYSTEMS ACTUALLY BEING SUPPLIED BY THE OWNER SO AS NOT TO OCCUR BEHIND BASE UNITS. DO NOT USE ELECTRICAL PLANS FOR DIMENSIONING. FURNITURE SYSTEM SUPPLIER TO PROVIDE DIMENSIONS/LOCATIONS. TYPICAL ALL FURNITURE LOCATIONS.

1. FAN PLATE PLUG TO ROUGH-IN. PROVIDE ARLINGTON MODEL, TVBS507 W/DRF30 BLANK COVER OR EQUAL. RECESSED BOX FOR POWER AND TV. PROVIDE BLANK COVER CONTINUOUS COVER PLATE FOR DEVICES. PROVIDE BLANK INSERTS IN ANY UNUSED SECTIONS. ROUTE (1) 1" CONDUIT INTO CONCEALED ACCESSIBLE CEILING SPACE FOR LOW VOLTAGE CABLING. COORDINATE EXACT LOCATION AND HEIGHT PRIOR TO ROUGH-IN. ADJACENT RECEPTACLE DENOTED "TV" SHALL BE MOUNTED WITHIN THE SAME BOX.
2. PROVIDE FLUSH TYPE STEEL ON-GRADE RATED FLOOR BOX. EXACT LOCATION OF FLOOR OUTLET SHALL BE VERIFIED WITH ARCHITECT. WIREMOLD RFB4803 W/FFRTPCxx COVER OR EQUAL. ARCHITECT SHALL CHOOSE ANY AVAILABLE FINISH DURING SHOP DRAWING REVIEW. PROVIDE (1) RECESSED BRACKETS FOR LOW VOLTAGE DEVICES. ROUTE (1) 1" BUSHED CONDUIT FOR DATA/TELEPHONE TO TV WALL BOX FOR CABLE PROVIDED BY OTHERS.
3. ELECTRICAL DROOP OPERATOR. WIRE TWO REMOTE PUSHBUTTONS AND CONTROLLER. VERIFY ALL LOCATIONS AND REQUIREMENTS WITH GENERAL CONTRACTOR/ARCHITECT.
4. CONFIRM EXACT ROOM LAYOUT WITH OWNER PRIOR TO INSTALLING ROUGH-INS.
5. PROVIDE CONNECTION TO ELECTRICAL DEAD DRAWER. COORDINATE EXACT REQUIREMENTS.
6. PROVIDE CONNECTION TO NIGHT DESK. CONFIRM EXACT REQUIREMENTS WITH BANK EQUIPMENT SUPPLIER.
7. RECEPTACLE FOR ELECTRIC WATER COOLER. MOUNT 50 RECEPTACLE IS CONCEALED BEHIND BOTTOM ACCESS PANEL. FEED FROM GFCI CIRCUIT BREAKER AND LABEL RECEPTACLE.
8. PROVIDE RECEPTACLES FOR DATA RACK. COORDINATE EXACT LOCATIONS WITH OWNER.
9. PROVIDE CONNECTION FOR TCR. VERIFY EXACT LOCATION.
10. MOUNT RECEPTABLES WITHIN CABINET. COORDINATE EXACT LOCATIONS WITH GENERAL CONTRACTOR.
11. CONDUIT FOR POWER AND LOW VOLTAGE CABLING AT MILLWORK SHALL BE CONCEALED. IF CONCEALED ROUTING IS NOT FEASIBLE CONDUIT SHALL BE EMIT. SURFACE ROUTED MC CABLE IS NOT ACCEPTABLE. PAINT CONDUIT AND BOXES TO MATCH SURFACE.
12. PROVIDE CONNECTION FOR OWNER VENDOR PROVIDED UPS. ROUTE #5 (1/2" CONDUIT). COORDINATE EXACT RECEPTACLE REQUIRED. MOUNT IN EQUIPMENT RACK.
13. PROVIDE GROUND BAR AT COMMUNICATIONS RACK 12"x24"x14" COPPER WITH ISOLATED STAND OFFS. ROUTE #5 COPPER CONDUCTOR BACK TO GROUNDING ELECTRODE SYSTEM. COORDINATE EXACT LOCATION. PROVIDE CONNECTIONS TO DATA RACKS AND CABLE TRAY.
14. PROVIDE POWER AND DATA CONNECTION FOR NIGHT DESK PROVIDED SAFE. CONFIRM EXACT LOCATION PRIOR TO ROUGH IN.
15. PROVIDE FOURPLEX RECEPTACLE AND ONE 6"x6"x4" JUNCTION BOX FOR OWNER'S VIDEO SURVEILLANCE SYSTEM. FROM JUNCTION BOX SUB (2) 1 1/2" CONDUITS INTO CEILING SPACE FOR CABLEING BY OTHERS. VERIFY LOCATIONS WITH SECURITY VENDOR PRIOR TO ROUGH-IN.
16. PROVIDE 120V STAND ALONE SMOKE DETECTOR.
17. ALARM / SECURITY SYSTEM CONTROL PANEL BY OTHERS. VERIFY LOCATION AND ALL REQUIREMENTS. PROVIDE 3/4" TO EACH ALARM AND CARD READER POINT SHOW. SUBIN (1) 1 1/2" CONDUIT INTO CEILING SPACE. COORDINATE EXACT REQUIREMENTS WITH BANK EQUIPMENTS DRAWINGS.
18. REFER TO MOTOR CONNECTION SCHEDULE FOR DUCT SMOKE DETECTOR REQUIREMENTS.
19. JUNCTION BOXES ABOVE CEILING. SEE DETAIL (3E3.1). COORDINATE EXACT LOCATION
20. JUNCTION BOXES UNDER COUNTER. SEE DETAIL (3E3.1)
21. PROVIDE CONNECTION ABOVE CEILING FOR BLOWER UNIT. SEE DETAIL 1E3.1. VERIFY CONNECTION LOCATION
22. DRIVE UP CUSTOMER UNIT. PROVIDE WIRING AS PER RISER DIAGRAM. VERIFY WITH BANK EQUIPMENT SUPPLIER. SEE DETAIL 1E3.1.
23. DRIVE UP VIDEO UNIT. PROVIDE WIRING AS PER DIAGRAM. VERIFY WITH BANK EQUIPMENT SUPPLIER. SEE DETAIL 3E3.1.
24. COMMUNICATION UTILITY MPOF. ROUTE UTILITY CONDUITS FROM PROPERTY LINE TO THIS LOCATION. PROVIDE 3/4" PLYWOOD FROM FLOOR TO EQUIPMENT MOUNTING. PAINT WITH FIRE RETARDANT GRAY PAINT.
25. PROVIDE CONNECTION CONTRACTOR TO PROVIDE AUTOMATIC FUSELARD AND LOW VOLTAGE TRANSFORMER. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOXES AND MAKE ALL CONNECTIONS. COORDINATE BOX LOCATIONS AND ALL REQUIREMENTS WITH MECHANICAL CONTRACTOR.
26. PROVIDE CONNECTION FOR COIN COUNTER. CONFIRM EXACT REQUIREMENTS AND LOCATION WITH BANK EQUIPMENT SUPPLIER.
27. PROVIDE ALARM ROUGH-IN FOR SAFE AS REQUIRED. COORDINATE WITH SECURITY AND BANK EQUIPMENT VENDORS.
28. PROVIDE 120V STAND-ALONE DUCT SMOKE DETECTOR FOR FURNACE SHUTDOWN. PROVIDE ANY RELAYS NECESSARY FOR A COMPLETE CONNECTION. PROVIDE SPACE AGE TECHNOLOGIES RSM-5000 OR APPROVED ALIKE.
29. PROVIDE CONNECTION FOR SECURITY MONITOR. CONFIRM EXACT LOCATION.
30. PROVIDE ROUGH-IN FOR FUTURE ATM. ROUTE (3) #10 AND (1) #10 GND IN 1 1/4" CONDUIT. PROVIDE (2) 1" CONDUITS TO ROOM 106 FOR COMMUNICATIONS AND ALARM. CONFIRM EXACT SIZE AND TO COVER CONNECTIONS.
31. PROVIDE CONNECTION TO FIREPLACE. CONFIRM EXACT REQUIREMENTS. PROVIDE CONDUIT ROUGH-IN AT REMOTE LOCATION AS DIRECTED BY GC.
32. PROVIDE CONNECTION TO WATER SOFTENER PROVIDED BY MECHANICAL.
33. PROVIDE ELECTRIC HEAT TAP IN ROOFDRAIN TO OUTLET. RAYCHEM RGM-1X (120V) OR EQUAL. PROVIDE RAYCHEM AMCP-FS T-STAY FOR OUTLET. RAYCHEM RGM-1X ON ROOF. MOUNT CONDUIT BOX IN ACCESSIBLE CEILING SPACE NEAR T-STAY. PROVIDE RAYCHEM E304 CONTRACTOR FOR CONTROL OF MULTIPLE CIRCUIT AS REQUIRED. APPROXIMATELY 20' OF TAPE.
34. ALL RECEPTABLES IN SPACE SHALL BE SPLIT RECEPTABLES WITH TOP RECEPTACLE BEING CONTROLLED WITH ROOM OCCUPANCY SENSOR. OCCUPANCY SENSOR SHALL TURN OFF CONTROLLED RECEPTACLE 20 MINUTES AFTER NO OCCUPANCY HAS BEEN SEEN IN SPACE.

(2) SCALE: 3/8" = 1'-0"

SCALE: 3/16" = 1'-0"

PROJECT

MAYO EMPLOYEES FEDERAL CREDIT UNION

NEW BUILDING

605 WEST AVE S. LA CROSSE, WI

ISSUED SET 2026-03-27

REVISIONS

DATE NO

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota

Matthew W. Pulas

40887 2026-03-27
Reg No. Date



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ELECTRICAL DETAILS

Drawn By: FSB

Checked By: JDM

E3.1

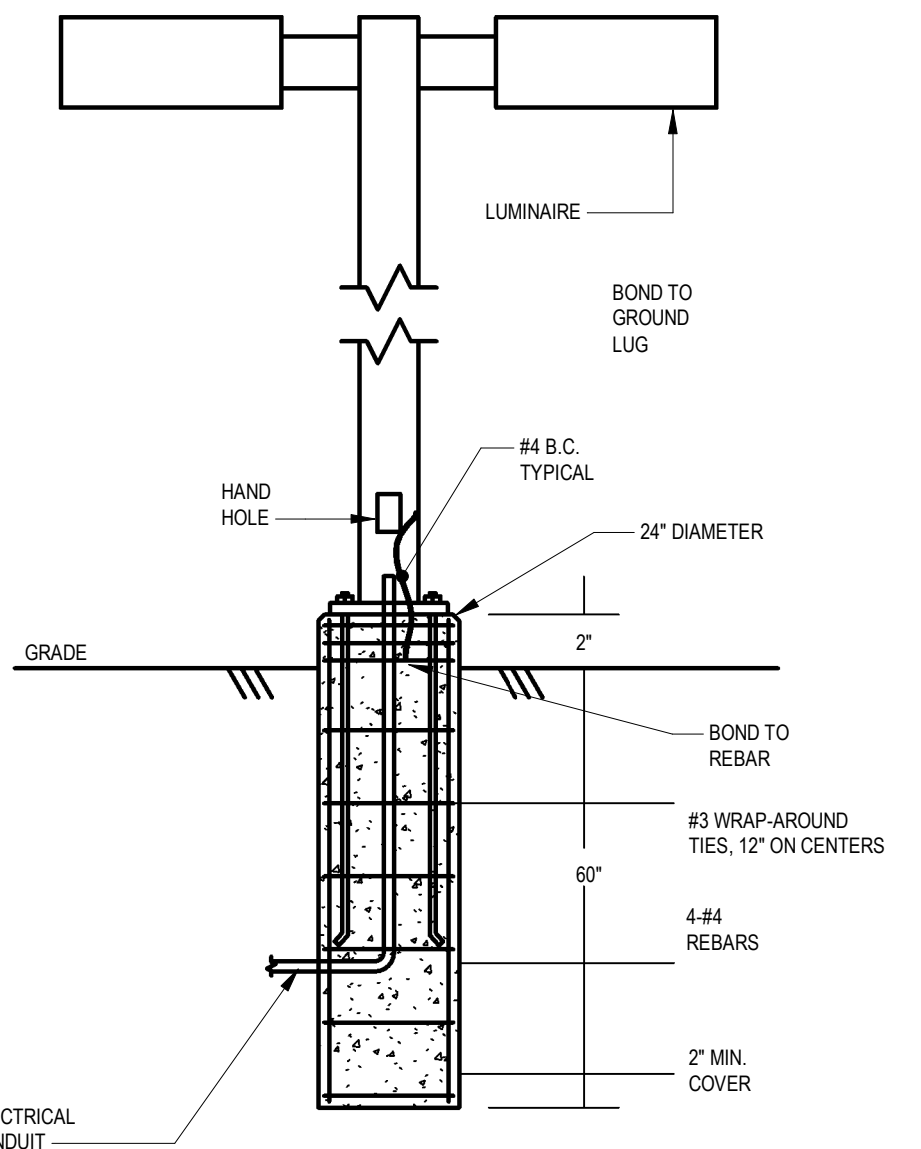
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3Ø FEEDER SCHEDULE

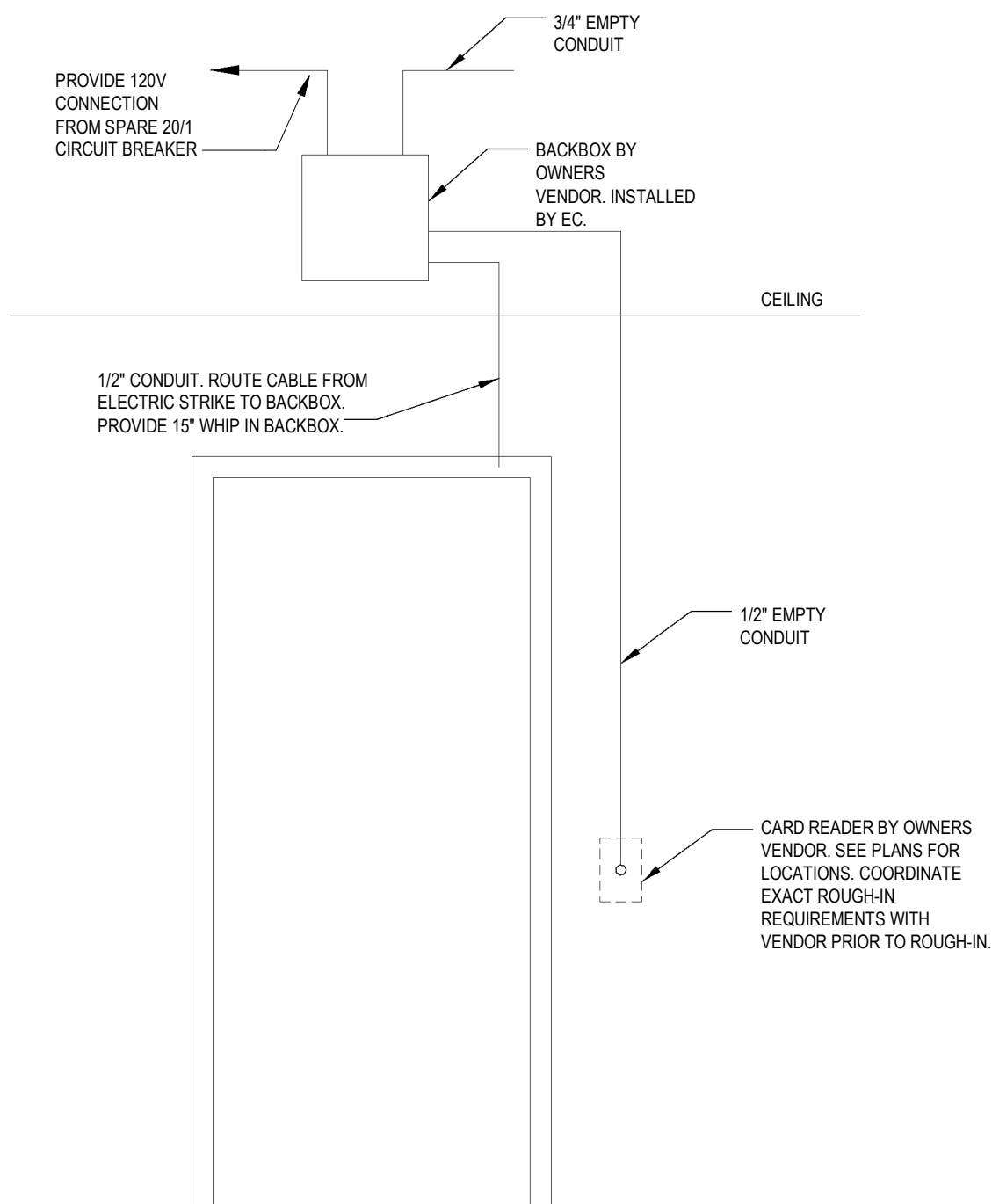
GENERAL NOTES:

- A. APPROVED CONDUCTOR INSULATIONS: THHN/THWN, THHN/THWN-2, XHHW-2. REFER TO PROJECT SPECIFICATIONS FOR INSULATION TYPE REQUIRED WITH VARYING CONDUCTOR SIZES AND...
B. CONDUIT TYPE REQUIREMENTS VARY DEPENDING ON APPLICATION AND LOCATION OF FEEDER. REFER TO PROJECT SPECIFICATIONS FOR REQUIREMENTS.
C. NEUTRAL SHALL BE THE SAME SIZE AS THE PHASE CONDUCTOR UNLESS OTHERWISE NOTED.

MARK (AMPACITY)	COPPER		COMPACT STRAND ALUMINUM ALLOY		MARK (AMPACITY)
	FEEDER 3W (NO NEUTRAL) PH-GND-C	FEEDER 4W (W NEUTRAL) PH-GND-C	FEEDER 3W (NO NEUTRAL) PH-GND-C	FEEDER 4W (W NEUTRAL) PH-GND-C	
20	3#12 - 1#12 GND - 3/4"C	4#12 - 1#12 GND - 3/4"C	---	---	20
30	3#10 - 1#10 GND - 3/4"C	4#10 - 1#10 GND - 3/4"C	---	---	30
40	3#8 - 1#10 GND - 3/4"C	4#8 - 1#10 GND - 1"C	---	---	40
50	3#6 - 1#10 GND - 1"C	4#6 - 1#10 GND - 1"C	---	---	50
50T	---	4#6 - 1#6 GND (SSBJ) - 1"C	---	---	50T
60	3#4 - 1#10 GND - 1"C	4#4 - 1#10 GND - 1 1/4"C	---	---	60
70	3#4 - 1#6 GND - 1 1/4"C	4#4 - 1#6 GND - 1 1/4"C	---	---	70
80	3#3 - 1#6 GND - 1 1/4"C	4#3 - 1#6 GND - 1 1/4"C	---	---	80
90	3#2 - 1#6 GND - 1 1/4"C	4#2 - 1#6 GND - 1 1/2"C	---	---	90
100	3#1 - 1#6 GND - 1 1/2"C	4#1 - 1#6 GND - 1 1/2"C	3#10 - 1#6 GND - 1 1/2"C	4#10 - 1#6 GND - 2"C	100
100P	3#3 - 1#6 GND - 1 1/4"C	4#3 - 1#6 GND - 1 1/4"C	3#1 - 1#6 GND - 1 1/2"C	4#1 - 1#6 GND - 1 1/2"C	100P
100T	---	4#3 - 1#6 GND (SSBJ) - 1 1/4"C	---	4#1 - 1#6 GND (SSBJ) - 1 1/2"C	100T
125	3#1 - 1#6 GND - 1 1/2"C	4#1 - 1#6 GND - 1 1/2"C	3#20 - 1#4 GND - 2"C	4#20 - 1#4 GND - 2"C	125
150	3#10 - 1#6 GND - 2"C	4#10 - 1#6 GND - 2"C	3#30 - 1#4 GND - 2"C	4#30 - 1#4 GND - 2 1/2"C	150
150T	---	4#10 - 1#6 GND (SSBJ) - 2"C	---	4#30 - 1#4 GND (SSBJ) - 2 1/2"C	150T
175	3#20 - 1#6 GND - 2"C	4#20 - 1#6 GND - 2"C	3#40 - 1#4 GND - 2"C	4#40 - 1#4 GND - 2 1/2"C	175
200	3#30 - 1#6 GND - 2"C	4#30 - 1#6 GND - 2"C	3#250 - 1#4 GND - 2 1/2"C	4#250 - 1#4 GND - 3"C	200
225	3#40 - 1#4 GND - 2"C	4#40 - 1#4 GND - 2 1/2"C	3#300 - 1#2 GND - 2 1/2"C	4#300 - 1#2 GND - 3"C	225
225T	---	4#40 - 1#2 GND (SSBJ) - 2 1/2"C	---	4#300 - 1#10 GND (SSBJ) - 3"C	225T
250	3#250 - 1#4 GND - 2 1/2"C	4#250 - 1#4 GND - 3"C	3#350 - 1#2 GND - 3"C	4#350 - 1#2 GND - 3"C	250
300	3#350 - 1#4 GND - 3"C	4#350 - 1#4 GND - 3"C	3#500 - 1#2 GND - 3"C	4#500 - 1#2 GND - 3 1/2"C	300
400	3#500 - 1#3 GND - 3"C	4#500 - 1#3 GND - 3 1/2"C	3#750 - 1#1 GND - 3 1/2"C	4#750 - 1#1 GND - 4"C	400
400P	(2 SETS) 3#30 - 1#3 GND - 2"C	(2 SETS) 4#30 - 1#3 GND - 2 1/2"C	(2 SETS) 3#250 - 1#1 GND - 2 1/2"C	(2 SETS) 4#250 - 1#1 GND - 3"C	400P
400T	---	(2 SETS) 4#30 - 1#10 GND (SSBJ) - 2 1/2"C	---	(2 SETS) 4#250 - 1#10 GND (SSBJ) - 3"C	400T
500	(2 SETS) 3#250 - 1#2 GND - 2 1/2"C	(2 SETS) 4#250 - 1#2 GND - 3"C	(2 SETS) 3#350 - 1#10 GND - 3"C	(2 SETS) 4#350 - 1#10 GND - 3"C	500
500T	---	(2 SETS) 4#250 - 1#10 GND (SSBJ) - 3"C	---	(2 SETS) 4#350 - 1#30 GND (SSBJ) - 3"C	500T
600	(2 SETS) 3#350 - 1#1 GND - 3"C	(2 SETS) 4#350 - 1#1 GND - 3"C	(2 SETS) 3#500 - 1#20 GND - 3"C	(2 SETS) 4#500 - 1#20 GND - 3 1/2"C	600
800	(2 SETS) 3#500 - 1#10 GND - 3"C	(2 SETS) 4#500 - 1#10 GND - 3 1/2"C	(2 SETS) 3#750 - 1#30 GND - 3 1/2"C	(2 SETS) 4#750 - 1#30 GND - 4"C	800
800P	(3 SETS) 3#300 - 1#10 GND - 2 1/2"C	(3 SETS) 4#300 - 1#10 GND - 3"C	(3 SETS) 3#400 - 1#30 GND - 3"C	(3 SETS) 4#400 - 1#30 GND - 3 1/2"C	800P
800T	---	(3 SETS) 4#300 - 1#20 GND (SSBJ) - 3"C	---	(3 SETS) 4#400 - 1#40 GND (SSBJ) - 3 1/2"C	800T
1000	(3 SETS) 3#400 - 1#20 GND - 3"C	(3 SETS) 4#400 - 1#20 GND - 3"C	(3 SETS) 3#600 - 1#40 GND - 3 1/2"C	(3 SETS) 4#600 - 1#40 GND - 4"C	1000
1000T	---	(3 SETS) 4#400 - 1#30 GND (SSBJ) - 3 1/2"C	---	(3 SETS) 4#600 - 1#250 GND (SSBJ) - 4"C	1000T
1200	(4 SETS) 3#300 - 1#30 GND - 3"C	(4 SETS) 4#300 - 1#30 GND - 3"C	(4 SETS) 3#500 - 1#250 GND - 3"C	(4 SETS) 4#500 - 1#250 GND - 3 1/2"C	1200
1600	(5 SETS) 3#400 - 1#40 GND - 3"C	(5 SETS) 4#400 - 1#40 GND - 3 1/2"C	(5 SETS) 3#600 - 1#30 GND - 3 1/2"C	(5 SETS) 4#600 - 1#30 GND - 4"C	1600
1600T	---	(5 SETS) 4#400 - 1#250 GND (SSBJ) - 3 1/2"C	---	(5 SETS) 4#600 - 1#400 GND (SSBJ) - 4"C	1600T
2000	(6 SETS) 3#400 - 1#250 GND - 3"C	(6 SETS) 4#400 - 1#250 GND - 3 1/2"C	(6 SETS) 3#600 - 1#400 GND - 3 1/2"C	(6 SETS) 4#600 - 1#400 GND - 4"C	2000



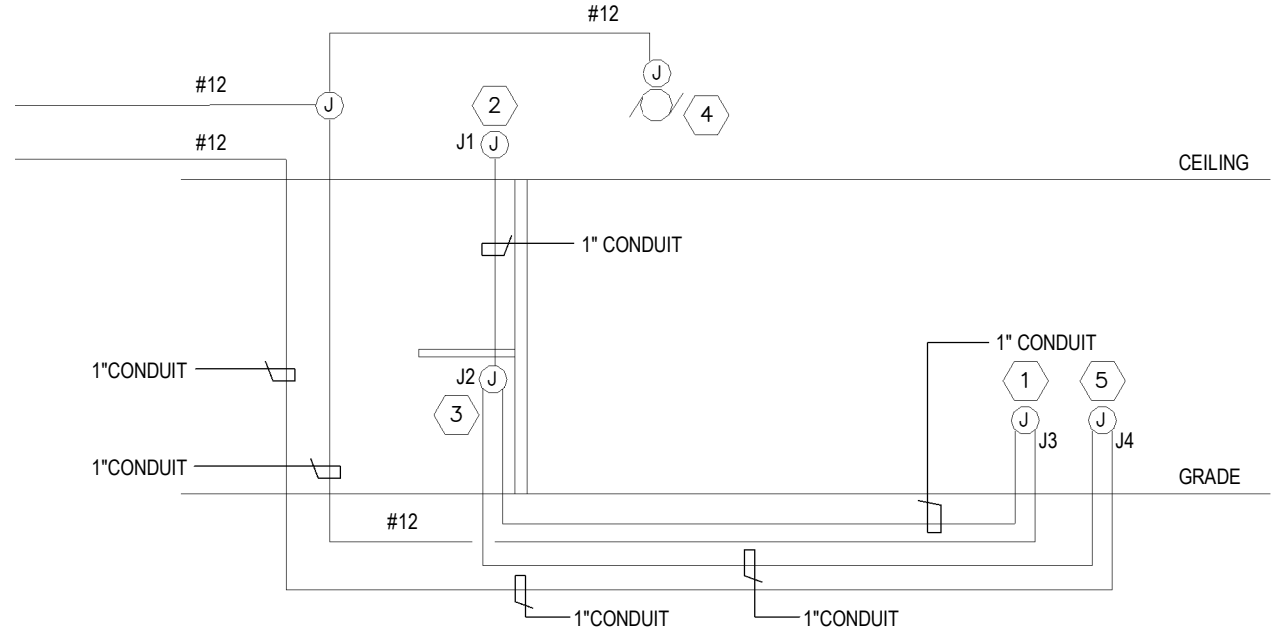
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NO SCALE



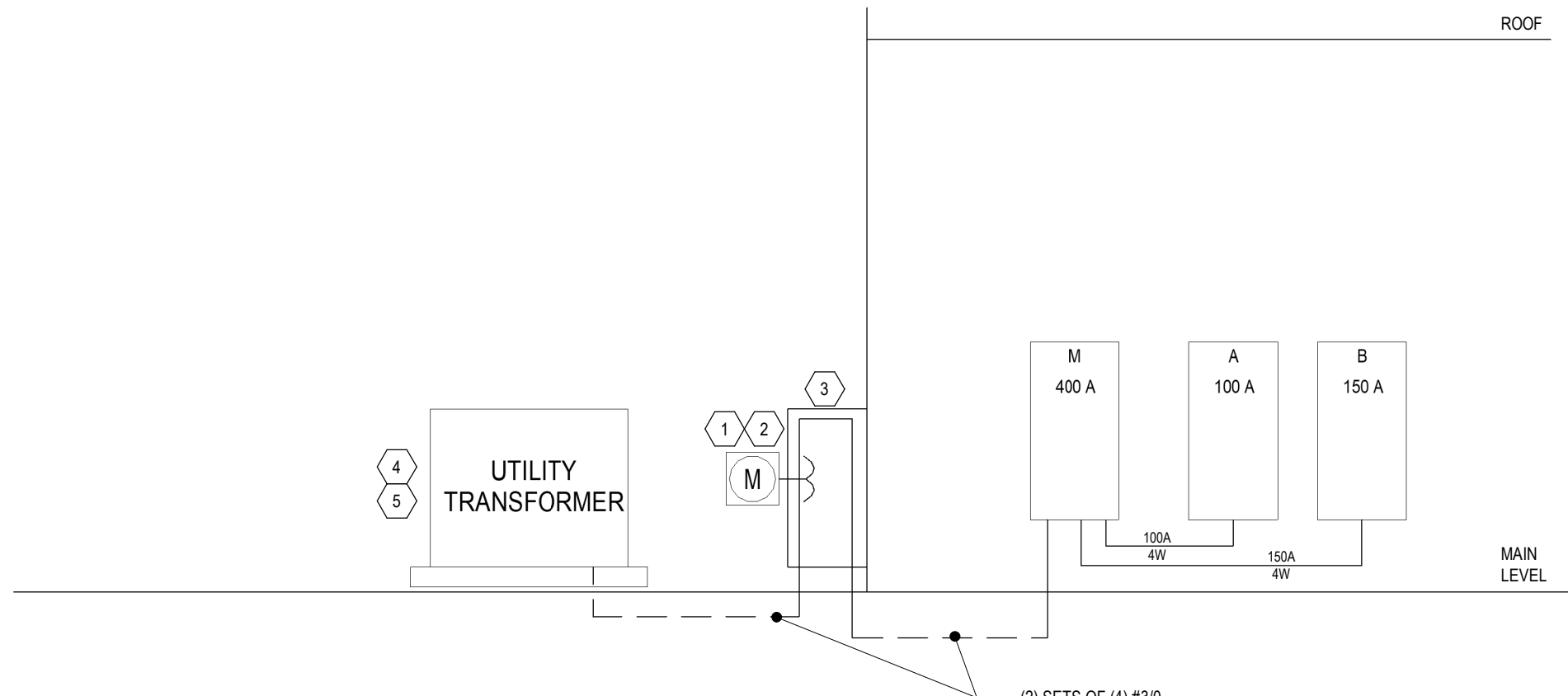
1 CARD READER DETAIL
NO SCALE

DETAIL KEY NOTES:

1. DRIVE UP CUSTOMER UNIT, PROVIDE WIRING AS PER RISER DIAGRAM. VERIFY WITH BANK EQUIPMENT SUPPLIER.
2. JUNCTION BOXES ABOVE CEILING.
3. JUNCTION BOXES UNDER COUNTER.
4. PROVIDE CONNECTION ABOVE CEILING FOR BLOWER UNIT.
5. DRIVE UP VIDEO UNIT, PROVIDE WIRING AS PER RISER DIAGRAM. VERIFY WITH BANK EQUIPMENT SUPPLIER.



3 DRIVE UP EQUIPMENT RISER DETAIL
NO SCALE



4 ELECTRICAL RISER DIAGRAM
NO SCALE

RISER GENERAL NOTES:

- A. FEEDERS SHALL BE 4 WIRE (4W) UNLESS DENOTED WITH "3W" WHICH SHALL BE 3 WIRE (3W) ALL FEEDERS SHALL HAVE EQUIPMENT GROUND CONDUCTOR.

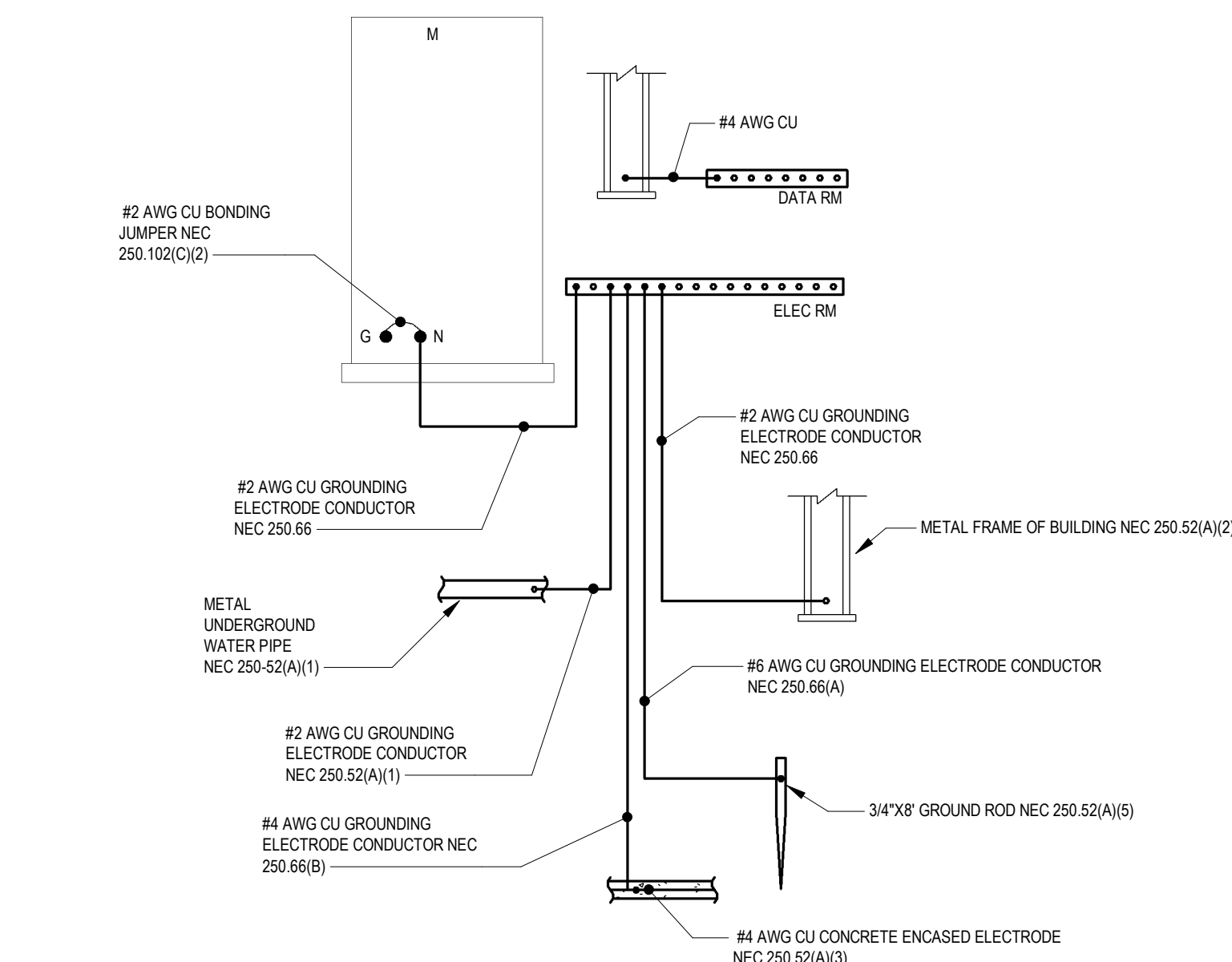
- B. VERIFY ALL UTILITY REQUIREMENTS WITH UTILITY PRIOR TO INSTALLATION

KEY NOTES:

1. METER SOCKET, ENCLOSURE AND CONDUIT FOR CT WIRING PROVIDED BY CONTRACTOR.
2. METER CTS AND CT WIRING PROVIDED BY THE ELECTRICAL UTILITY.
3. PROVIDE WALL MOUNT CT CABINET. VERIFY REQUIREMENTS WITH UTILITY.
4. TRANSFORMER PROVIDED BY UTILITY.
5. TRANSFORMER CONCRETE PAD AND BOLLARDS PROVIDED BY THE CONTRACTOR.

GENERAL NOTES:

- A. ALL GROUNDING ELECTRODE CONDUCTORS PENETRATING THROUGH FOUNDATION WALL OR BASEMENT INTERIOR FLOOR SLAB SHALL BE TRANSITIONED TO SOLID ROD A MINIMUM OF 2'-0" TO EITHER SIDE OF WATERPROOFING MEMBRANE TO ALLOW FOR HEAT WELD BY WATERPROOFING CONTRACTOR.



5 MAIN BUILDING GROUNDING ELECTRODE SYSTEM
NO SCALE



Compliance Certificate

Project Information

Energy Code:	2021 IECC	Designer/Contractor:
Project Title:	MAYO EMPLOYEES FEDERAL CREDIT UNION	
Location:	La Crosse, Wisconsin	
Climate Zone:	5a	
Project Type:	New Construction	
Project No:	93449	
All Electric:	false	
Is Renewable:	false	
Has Battery:	false	
Has Charger:	false	
Has Heat Pump:	false	
Construction Site:	Owner/Agent:	
605 West Ave S,	Mayo Employees Federal Credit Union	
La Crosse , Wisconsin 54601	Wisconsin	
	Felipe Soares	
	Emanuelson-Podas, Inc	
	Edina , Minnesota 55439	
	952-930-0050	
	fsoares@epinc.com	

Notes:

Building Area

Description	Floor Area
1- Office (Office) - Nonresidential	2785



Project Information

Energy Code:	2021 IECC	Designer/Contractor:
Project Title:	MAYO EMPLOYEES FEDERAL CREDIT UNION	
Location:	La Crosse, Wisconsin	
Climate Zone:	5a	
Project Type:	New Construction	
Exterior Lighting Zone:	High activity metropolitan commercial district (LZ4)	
Construction Site:	Owner/Agent:	
605 West Ave S,	Mayo Employees Federal Credit Union	
La Crosse , Wisconsin 54601	Wisconsin	
	Felipe Soares	
	Emanuelson-Podas, Inc	
	Edina , Minnesota 55439	
	952-930-0050	
	fsoares@epinc.com	

Allowed Exterior Lighting Power

A	B	C	D	E
Area/Surface Category	Quantity	Allowed Watts / ft2	Tradable Wattage	Allowed Watts (B X C)
Ext Area - Parking Lot (Parking area)	15910 ft2	0.08	No	1272.8
Ext Area - Drive Lane (ATM/Night depository location) (c)	2 machines	45.00	No	90.0
Ext Area - Emp Entrance (Illuminated area of facade wall or surface)	30 ft2	0.15	No	4.5
Ext Area - Main Entry (Entry canopy)	253 ft2	0.40	No	101.2
Total Tradable Watts (a):				1374
Base Site Allowance (b):				900
Total Allowed Watts:				2400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A base site allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/Fixture	# of Fixture	Fixture Watt.	(C X D)
Ext Area - Parking Lot (Parking area -15910 ft2): Tradable Wattage				
P1: P1: LED:	0	6	170	1020
Ext Area - Drive Lane (ATM/Night depository location - 2 machines): Tradable Wattage				
D1: D1: LED:	0	12	26	312
Ext Area - Emp Entrance (Illuminated area of facade wall or surface -30 ft2): Tradable Wattage				
N1X: N1X: LED:	0	1	21	21
Ext Area - Main Entry (Entry canopy -253 ft2): Tradable Wattage				
C1: C1: LED:	0	3	15	45
C1X: C1X: LED:	0	2	15	30



Project Information

Energy Code:	2021 IECC	Designer/Contractor:
Project Title:	MAYO EMPLOYEES FEDERAL CREDIT UNION	
Location:	La Crosse, Wisconsin	
Climate Zone:	5a	
Project Type:	New Construction	
Construction Site:	Owner/Agent:	
605 West Ave S,	Mayo Employees Federal Credit Union	
La Crosse , Wisconsin 54601	Wisconsin	
	Felipe Soares	
	Emanuelson-Podas, Inc	
	Edina , Minnesota 55439	
	952-930-0050	
	fsoares@epinc.com	

Allowed Interior Lighting Power

A	B	C	D
Area Category	Floor Area (ft2)	Allowed Watts / ft2	Allowed Watts
1-Bank Building (Bank/Banking Activity Area)	2785	0.61	
Total Allowed Watts:			1782

Proposed Interior Lighting Power

A	B	C	D
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	# of Fixture	Fixture Watt.	(B X C)
1-Bank Building (Bank/Banking Activity Area)			
A1: A1: LED:	31	16	496
A1X: A1X: LED:	9	16	144
B1: B1: LED:	8	48	384
B1X: B1X: LED:	2	48	96
C2: C2: LED:	1	15	15
E1: E1: LED:	2	2	4
F1: F1: LED:	3	25	75
G1: G1: LED:	1	35	35
G1X: G1X: LED:	1	35	35
Total Proposed Watts:			1284

Proposed Interior Lighting Controls

Fixture	Lighting Control
1-Bank Building (Bank/Banking Activity Area)	
A1: A1: LED:	Local Control, Restricted Manual On, Auto Full Off(50%)
A1X: A1X: LED:	Local Control, Restricted Manual On, Auto Full Off(50%)
B1: B1: LED:	Local Control, Restricted Manual On, Auto Full Off(50%)

A	B	C	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/Fixture	# of Fixture	Fixture Watt.	(C X D)
Total Tradable Proposed Watts:				1095

Proposed Exterior Lighting Controls

Fixture	Lighting Control
Ext Area - Parking Lot (Parking area -15910 ft2)	
P1: P1: LED:	Daylight Shutoff, Facade or Landscape
Ext Area - Drive Lane (ATM/Night depository location - 2 machines)	
D1: D1: LED:	Daylight Shutoff, Facade or Landscape
Ext Area - Emp Entrance (Illuminated area of facade wall or surface -30 ft2)	
N1X: N1X: LED:	Daylight Shutoff, Facade or Landscape
Ext Area - Main Entry (Entry canopy -253 ft2)	
C1: C1: LED:	Daylight Shutoff, Facade or Landscape
C1X: C1X: LED:	Daylight Shutoff, Facade or Landscape

Exterior Lighting PASSES: Design 50% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Felipe Soares - Electrical Designer *Felipe Soares* 03/27/2026

Name - Title Signature Date

Fixture	Lighting Control
B1X: B1X: LED:	Local Control, Restricted Manual On, Auto Full Off(50%)
C2: C2: LED:	Local Control, Restricted Manual On, Auto Full Off(50%)
E1: E1: LED:	Local Control, Restricted Manual On, Auto Full Off(50%)
F1: F1: LED:	Local Control, Restricted Manual On, Auto Full Off(50%)
G1: G1: LED:	Local Control, Restricted Manual On, Auto Full Off(50%)
G1X: G1X: LED:	Local Control, Restricted Manual On, Auto Full Off(50%)

Interior Lighting PASSES: Design 28% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Felipe Soares - Electrical Designer *Felipe Soares* 03/27/2026

Name - Title Signature Date



Energy Code: 2021 IECC

Requirements: 100% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Plan Review

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C406 (PR9) ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐ Complies ☒ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E1.1, E1.2, E3.2, E3.3, E3.4
C103.2 (PR4) ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐ Complies ☒ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E1.1, E1.2, E3.2, E3.3, E3.4
C103.2 (PR6) ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐ Complies ☒ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E1.1, E1.2, E3.2, E3.3, E3.4

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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PROJECT

MAYO EMPLOYEES
FEDERAL CREDIT UNION

NEW BUILDING

605 WEST AVE S.
LA CROSSE, WI

ISSUED SET 2026-03-27

REVISIONS

DATE NO

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota

Matthew W. Fuls

40887 2026-03-27
Reg No. Date



Emanuelson-Podas, Inc.
7705 East Lake Road
Edina, MN 55439
(952) 930-0050 | www.epinc.com

ENERGY COMPLIANCE
FORMS

Drawn By: FSB Checked By: JDM

E3.2

3392.0002
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Section & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL.22]	Spaces required to have light-tight enclosures have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E1, E1.2, E3.2, E3.3, E3.4
C405.3.7 [EL.28]	Automatic lighting controls for exterior lighting installations will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting = 30%.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E1, E1.2, E3.2, E3.3, E3.4
C405.7 [EL.26]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.8 [EL.27]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7.4. Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E2.1, E2.2, E4.1
C405.9.1 C405.9.2 [EL.28]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.10 [EL.29]	Total voltage drop across the combination of feeders and branch circuits = 5%.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E2.1, E2.2
C405.1.1 [EL.30]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.11 C405.11.1 [EL.31]	50% of 15/20 amp receptacles installed in warehouses, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E2.1, E2.2
C405.2.1 C405.2.1.1 [EL.18]	Occupancy sensors installed in warehouses, training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounge/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sq ft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E1.1, E1.2, E3.2, E3.3, E3.4
C405.2.1.2 [EL.19]	Occupancy sensors control function in warehouses. In warehouses, the lighting in aislesways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.

Section & Req. ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1.3 [EL20]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 500 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on/occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Exception: Requirement does not apply.
C405.2.2, C405.2.2.1 [EL21]	Each area not served by occupancy sensors per (C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E1.1, E1.2, E3.2, E3.3, E3.4
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23]	Daylight zones provided with individual controls that control the lights independent of general lighting. See code, and spec. C405.2.3 Daylight-responsive controls for applicable spaces. C405.2.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E1.1, E1.2, E3.2, E3.3, E3.4
C405.2.5 [EL27]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E1.1, E1.2, E3.2, E3.3, E3.4

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [F17.7]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.5.1 [F19.1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	See the Exterior Lighting fixture schedule for values
C408.1.1 [F15.7]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.5 [F16.1]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.3 [F13.3]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	Location on plans/spec: E1.1, E1.2, E3.2, E3.3, E3.4

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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**MAYO EMPLOYEES
FEDERAL CREDIT UNION**

605 WEST AVE S.
LA CROSSE, WI

ISSUED SET 2026-03-27

REVISIONS

DATE NO

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota

Matthew W. Fults

4088

Reg No

2026-03-27

Reg No

Date _____



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(952) 930-0060 | www.epinc.com

ENERGY COMPLIANCE FORMS

Drawn By: FSB

Checked By: KDM

E3.3

392.0002

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TECHNOLOGY SYMBOLS	
SYMBOL	DESCRIPTION
# OF DATA CABLES	DATA/TELEPHONE OUTLET - PROVIDE # OF TERMINATED CAT6 CABLES INDICATED BY "N" BACK TO PATCH PANELS IN IT ROOM. CABLES AND OUTLETS SHALL BE LABELED AT BOTH ENDS.
# OF DATA CABLES	TELEVISION OUTLET - PROVIDE # OF TERMINATED CAT6 CABLES INDICATED BY "TV" BACK TO PATCH PANELS IN IT ROOM. CABLES AND OUTLETS SHALL BE LABELED AT BOTH ENDS.

LOW VOLTAGE RESPONSIBILITY SCHEDULE								
ITEM	FURNISHED BY			INSTALLED BY			N/A	REMARKS
	OWNER	VENDOR	DIV 26	OWNER	VENDOR	DIV 26		
DATA CABLE CONDUITS / ROUGH-IN BOXES WITH PULLWIRE			o			o		
DATA ROOM HARDWARE (DATA RACKS, LADDER RACK, ETC)		o			o			
DATA CABLING AND JACKS			o			o		
DATA ROOM ELECTRONICS		o			o			

2 CASH WORK ROOM / IT - TECHNOLOGY

SCALE: 3/8" = 1'-0"

GENERAL NOTES:

- PROVIDE BLANK COVERPLATES ON UNUSED ROUGH-INS.
- PROVIDE CABLE DISTRIBUTION J-HOOKS AS NECESSARY TO ROUTE AND SUPPORT CABLES. ALL CABLES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT LIE ON CEILING GRID. J-HOOKS SHALL BE SPACED NO MORE THAN FIVE FEET ON CENTER.

KEY NOTES:

- PROVIDE CAT-6 CABLE FROM WIRELESS ACCESS POINT IN CEILING TO SERVER ROOM FOR WIFI. COORDINATE EXACT LOCATION AND REQUIREMENTS.
- TWO-POST DATA RACK PROVIDED BY OWNERS VENDOR.
- PROVIDE TELEPHONE LINES TO SECURITY/ALARM CONTROL PANELS. ASSUME (2) LINES ARE REQUIRED. COORDINATE EXACT REQUIREMENTS WITH ASSOCIATED VENDORS.
- PROVIDE (1) TELEPHONE LINE TO LIGHTING CONTROL PANEL.
- FLOOR BOX PROVIDED BY ELECTRICAL. PROVIDE JACKS AND TERMINATION PLATES AS NECESSARY.
- PROVIDE HDMI CABLE BETWEEN FLOOR BOX AND TV TERMINATE ON BOTH ENDS.
- COORDINATE EXACT ROOM LAYOUT WITH OWNER.



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PROJECT

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FEDERAL CREDIT UNION**

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REVISIONS

DATE NO

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota

Matthew W. Fuls

40887

Reg No.

2026-03-27

Date



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MAIN LEVEL PLAN - TECHNOLOGY

Drawn By: FSB

Checked By: KDM

T1.1

3392.0002
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1 MAIN LEVEL PLAN - TECHNOLOGY

SCALE: 3/16" = 1'-0"

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3/26/2026 7:16:52 PM