



Addendum #	1	Date Issued	April 9, 2026
Project Name Job #	WC Park & Rec Shop		20262250
Bid Date Time	April 16 th , 2026		11:00am Local Time

THIS ADDENDUM AMENDS AND BECOMES PART OF THE CONTRACT DOCUMENTS FOR EAPC PROJECT 20262250 DATED MARCH 25th, 2026, RESPECTIVELY. EACH BIDDER SHALL ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY MARKING THE ADDENDUM NUMBER AND DATE ON THE BID FORM.

PRE-BID MEETING

PLAN HOLDERS LIST

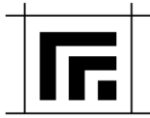
The current Plan Holders List is attached.

SPECIFICATIONS

00 3000	REPLACE Bid Form – see attached
00 1000	OMIT Instructions to Bidders
00 2200	ADD Entire Spec Section: Unit Prices
08 3613	REPLACE Sectional Doors section 2.6.A.3 to ¾ hp.
08 7100	REPLACE Panic Device Hardware Set #5 to – CDSI-98-L-KC with Electric Strike
22 0719	REVISE Domestic Hot Water Supply: Glass Fiber Insulation: Thickness: increase 1" to 1 1/2"

DRAWINGS

E050	REVISED Spec section 26 0526 to be in numerical order.
E301	REVISED Lighting control in Break Room 103.
E801	ADDED Energy monitoring system to meter.
	ADDED Separate meter for owner and utility.



ADDED Sheet notes for bypass lever and energy monitoring system.

E803 **REVISED** Fixture D no longer includes integral occupancy sensor.

E804 **REVISED** Single Door Card Reader Rough-in Detail for clarity.

E901 **REVISED** Panel schedules to show 22kA AIC Rating and calculated AIC value.

PRIOR APPROVALS

09 5100	Acoustical Ceilings	USG
22 1319	Cleanouts, Floor Drains	Watts Drainage Products
22 4000	Lavatory Faucets	American Standard
22 4000	Carriers	Watts Drainage Products

ATTACHMENTS

Specifications:

00 3000 *Bid Form*

Drawings:

E050 *Specifications*
 E301 *First Floor Lighting Plan*
 E801 *One-Line Diagram*
 E803 *Lighting Schedules & Details*
 E804 *Details, Schedules & Riser Diagrams*
 E901 *Schedules*

END ADDENDUM 1



PLAN HOLDERS LIST
 Watford City Park District - Park Shop
 Watford City, North Dakota
 EAPC Project: 20262250

BID DATE: Thursday, April 16, 2026
 BID TIME: 11:00 AM CST

PLAN HOLDER	CONTACT PERSON	ADDRESS	CITY	STATE	ZIP	PHONE	FAX	EMAIL
EAPC	Emily Kreil	313 Main St, Suite 200	Williston	ND	58801	701.609.5290		emily.kreil@eapc.net
BUILDERS EXCHANGES								
Aberdeen Builders Exchange		302 N. Jackson Street	Aberdeen	SD	57401	605-225-4733	605-225-4733	dakotabuild@midconetwork.com
Billings Builders Exchange		2050 Broadwater Avenue	Billings	MT	59102	406-652-1311	406-652-1391	bbx@billingsplanroom.com
Bismarck-Mandan Builders Exchange		P. O. Box 550	Mandan	ND	58554	701-667-4322	701-667-5217	bismanblderex@gmail.com
CMD (Construction Market Data)		Suite 500	Norcross	GA	30092	770-417-4000	800-508-5370	content@constructconnect.com
Construction Industry Center		Box 1227	Rapid City	SD	57709	605-343-5252	605-343-4591	cic@constructionindustrycenter.com or chrisv@constructionindustrycenter.com
Bismarck Builders Exchange		215 Airport Road	Bismarck	ND	58504	701-258-4215	701-258-1391	info@bbxnd.com
Dickinson Builders Exchange		Drawer C	Dickinson	ND	58601	701-225-5115	701-225-5116	team@dickinsonchamber.org
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
McGraw Hill Const./Dodge Plan Rm.		1401 Glenwood Avenue No.	Minneapolis	MN	55405	612-381-2290	612-381-2295	http://upload.construction.com
Minnesota Builders Exchange		1123 Glenwood Avenue	Minneapolis	MN	55405	612-381-2620	612-381-2621	new project: jb@mbex.org addendums: addenda@mbex.org
Minot Builders Exchange		2424 Burdick Expy East	Minot	ND	58701	701-838-5353	701-839-0638	mbe1@srt.com
Plains Builders Exchange		220 N. Kiwanis Ave.	Sioux Falls	SD	57104-2530	605-334-8886	605-334-0112	info@plainsbuilders.com
QuestCDN.com								www.questcdn.com
Sioux Falls Builders Exchange		1418 "C" Avenue	Sioux Falls	SD	57104	605-357-8687	605-357-8655	info@sfbx.com
Williston Builders Exchange		2108 - 4th Ave. West	Williston	ND	58801-3423	701-572-9460	701-572-2511	willistonbuildersexchange@gmail.com
Wyoming Builders Exchange		409 W Second St	Gillette	WY	82716	307-682-3673		frontoffice@gillettechamber.com
CONTRACTOR								
Corland Construction Llc.	Jon Kleinke	2730 Mission Canyon Dr. Unit B	Sidney	MT	59270	406.433.8158		jon@corlandconstruction.com
Prairie Winds Service/ On-Point Electric	Matt Clark	4983 Hatzenbiler Ln.	Williston	ND	58801	701.570.8433		matt@pw-services.com
JJJ Electric	Jamie Jellesed	3579 107th Ave NW	Keene	ND	58847	406.489.0047		jamie@jjelectricnd.com
Central Specialties Incorporated		6325 Co Rd 87 SW	Alexandria	MN	56308	320.762-7289		quotes@centralspecialties.com
SUPPLIER								
Strata Corporation	Rob Martens	1600 N 48th St	Grand Forks	ND	58203	701.775.4205		kmdsquotes@kniferiver.com
Core and Main LP	Heather Schumacher	1830 Craig Park Ct	St. Louis	MO	63146	314.432.4700		heather.schumacher@coreandmain.com
West River Specialties	Bill Erdman	217 11th Ave E	Mobridge	SD	57601	605-850-8368		bill@westriverspecialties.com

BID FORM

PROJECT: Watford City Park District – Park Shop

BID DUE DATE: Thursday, April 16th, 2026, 11 AM local time

BID OPENING DATE: Tuesday, April 21st, 2026, 8:30 AM local time

BID OPENING PLACE: Rough Rider Center
 2209 Wolves Den Parkway
 Room: TBD
 Watford City, ND 58854

BIDS DUE TO THE OWNER: Watford City Parks & Recreation
 2209 Wolves Den Parkway
 Watford City, ND 58854

I have received the Drawings and Specifications for the _____ (General, Mechanical, Electrical, or Single Combined Construction) Contract for EAPC Project No. **20262250, WC Park Shop** , to be erected at Watford City, North Dakota

I have also received Addenda Nos. _____ and have included their provisions in my Bid. I have examined both the documents and the site and submit the following Bid:

I will do the _____ Construction work for **WC Park Shop** for the lump sum price of _____ dollars (\$_____).

ALTERNATIVES.

I will include the following alternates as specified additions to or deductions from the above Base Bid, for changes in dollars and time listed:

Alternate No. 1, NONE

(Cross Out One) Add Deduct \$ _____
Add Deduct _____ Calendar Days.

UNIT COSTS.

I will include authorized unit cost work as specified to be added to or deducted from the above Base Bid, for changes in dollars and time listed:

Unit Cost A, General Fill, Fill Type 1

Add / Deduct \$ _____

Unit Cost B, Subgrade below Pavement Fill, Fill Type 2

Add / Deduct \$ _____

Unit Cost C, Structural Fill, Fill Type 3

Add / Deduct \$ _____

Unit Cost D, Aggregate Base, Fill Type 4A

Add / Deduct \$ _____

Unit Cost E, Rock, Fill Type 4B

Add / Deduct \$ _____

1. To hold my bid open for 60 calendar days after its' opening.
2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.
3. To enter into and execute a Contract, if awarded on the basis of this bid, and to furnish Guarantee Bonds in accord with the Instructions to Bidders.
4. To accomplish the work in accord with the Contract Documents.
5. To substantially complete the Work in the Base Bid according to the following schedule: (See Supplementary Conditions for Liquidated Damages.)
 - a) _____ sufficiently complete that the Owner can use it as specified in Section 01 1000 by _____ calendar days from date of Notice to Proceed.

I have attached the required Bid Security.

Official Address: _____ firm name

_____ signed by

_____ title

SECTION 01 2200 - UNIT PRICES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. List of unit prices, for use in preparing Bids.
- B. Measurement and payment criteria applicable to Work performed under a unit price payment method.
- C. Defect assessment and non-payment for rejected work.

1.2 RELATED REQUIREMENTS

- A. Document 00 1000 - Instructions to Bidders: Instructions for preparation of pricing for Unit Prices.
- B. Section 01 2000 - Price and Payment Procedures: Additional payment and modification procedures.

1.3 COSTS INCLUDED

- A. Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; demolition and removal; erection, application or installation of an item of the Work; fees, overhead and profit.

1.4 UNIT QUANTITIES SPECIFIED

- A. Quantities indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements of actual Work will determine the payment amount.

1.5 MEASUREMENT OF QUANTITIES

- A. Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.
- B. Take all measurements and compute quantities. Measurements and quantities will be verified by Architect.
- C. Assist by providing necessary equipment, workers, and survey personnel as required.
- D. Measurement Devices:
 - 1. Weigh Scales: Inspected, tested and certified by the applicable state Weights and Measures department within the past year.
 - 2. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.

3. Metering Devices: Inspected, tested and certified by the applicable state department within the past year.
- E. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness.
- F. Stipulated Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as a completed item or unit of the Work.
- G. Perform surveys required to determine quantities, including control surveys to establish measurement reference lines. Notify Architect prior to starting work.

1.6 PAYMENT

- A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Architect, multiplied by the unit price.
- B. Payment will not be made for any of the following:
 1. Products wasted or disposed of in a manner that is not acceptable.
 2. Products determined as unacceptable before or after placement.
 3. Products not completely unloaded from the transporting vehicle.
 4. Products placed beyond the lines and levels of the required Work.
 5. Products remaining on hand after completion of the Work.
 6. Loading, hauling, and disposing of rejected Products.

1.7 DEFECT ASSESSMENT

- A. Replace Work, or portions of the Work, not complying with specified requirements.
- B. If, in the opinion of Architect, it is not practical to remove and replace the Work, Architect will direct one of the following remedies:
 1. The defective Work may remain, but the unit price will be adjusted to a new unit price at the discretion of Architect.
 2. The defective Work will be partially repaired to the instructions of the Architect, and the unit price will be adjusted to a new unit price at the discretion of Architect.
- C. The authority of Architect to assess the defect and identify payment adjustment is final.

1.8 SCHEDULE OF UNIT PRICES

- A. Unit Price No. 1: Unsatisfactory Soil Material.
 1. Description: Excavate unsatisfactory soil and dispose off-site. Replace with satisfactory fill material or engineered fill from off-site, as required, in accordance with that specified in drawings and Division 31 Earthwork sections.
 2. Unit of Measurement: Cubic yard.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 01 2200

SECTION DIVISIONS 26, 27, AND 28

ELECTRICAL SPECIFICATIONS

26 0000 SCOPE OF WORK:

1.1 THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE PROJECT IN CONFORMITY WITH THE DRAWINGS, SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.

- a. MATERIALS FURNISHED SHALL INCLUDE, BUT NOT BE LIMITED TO RACEWAYS, CONDUCTORS, SWITCHES, RECEPTACLES, LIGHT FIXTURES, NECESSARY HANGERS AND SUPPORTS, SERVICE ENTRANCE, PANELS, ELECTRIC HEAT, ETC.
- b. LABOR SHALL INCLUDE THE INSTALLING AND CONNECTING OF MATERIALS NOTED IN PARAGRAPH (1.) AND AS SHOWN ON THE DRAWINGS.

1.2 THE INSTALLATION SHALL COMPLY WITH LOCAL, STATE AND NATIONAL ELECTRICAL CODES. THE ELECTRICAL CONTRACTOR SHALL SECURE AND PAY FOR FEES, PERMITS AND INSPECTIONS.

1.3 BEFORE SUBMITTING A PROPOSAL ON THE WORK CONTEMPLATED, EACH BIDDER SHALL VISIT THE SITE(S) AND FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS AND LIMITATIONS, NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S KNOWLEDGE OF ANY EXISTING CONDITIONS.

1.4 THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH ALL OTHER TRADES. CONTRACTOR TO COORDINATE SCHEDULING OF THE WORK AND TENANT'S SECURITY VENDOR.

1.5 SCOPE OF WORK IS COMPRISED OF THE FOLLOWING: ELECTRICAL FOR SHOP BUILDING.

26 0010 SUPPLEMENTAL REQUIREMENTS FOR ELECTRICAL:

1.1 SEQUENCING - CONDUCT AND SUBMIT RESULTS OF POWER SYSTEM STUDIES PRIOR TO SUBMITTING PRODUCT DATA AND SHOP DRAWINGS FOR ELECTRICAL EQUIPMENT.

1.2 CLOSE OUT SUBMITTALS — CONTRACTOR TO PROVIDE OPERATION AND EQUIPMENT MANUALS TO OWNER ON USB MEDIA WHICH IS CLEARLY AND PERMANENTLY LABELED.

26 0050 BASIC ELECTRICAL REQUIREMENTS

1.1 TEMPORARY POWER — THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY POWER AND LIGHTING AS MAY BE REQUIRED FOR CONSTRUCTION OR AS REQUIRED TO MAINTAIN CRITICAL OPERATIONS DURING CHANGEOVER OF FEEDERS OR SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL EQUIPMENT, MAKING ALL ARRANGEMENTS, AND MAKING ALL CONNECTIONS REQUIRED FOR TEMPORARY POWER AND LIGHTING OF ALL TRADES.

1.2 ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO UL OR NRTL STANDARDS AND BE CLEARLY IDENTIFIED WITH NRTL LABEL.

1.3 THE CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING UTILITIES AND TO THE BUILDING.

1.4 CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRICAL INSPECTION BY AN INDEPENDENTLY APPROVED INSPECTION AGENCY. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL ADJUST ALL EQUIPMENT AND TEST ALL SYSTEMS AT THE DIRECTION OF OWNER/ENGINEER.

1.5 ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND QUALIFIED PERSONNEL IN A NEAT AND WORKMANLIKE MANNER.

1.6 ALL CIRCUITING SHOWN IS DIAGRAMMATICAL. THE CONTRACTOR SHALL PROVIDE JUNCTION AND PULL BOXES AS REQUIRED BY NFPA 70, NATIONAL ELECTRICAL CODE CURRENT EDITION. ALL SYMBOLS AND ABBREVIATIONS SHOWN ON DRAWINGS ARE NOT NECESSARILY USED HEREIN.

1.7 THE CONTRACTOR SHALL REFER TO DIVISION 23 HVAC MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING OF HVAC MECHANICAL EQUIPMENT.

1.8 PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND TOOLS NECESSARY FOR A COMPLETE AND WORKABLE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL AND STATE CODES HAVING JURISDICTION AND APPLICABLE MANUFACTURER'S RECOMMENDATIONS.

1.9 IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO VERIFY THE ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR OR FURNISHED BY OTHERS, INCLUDING THE OWNER / TENANT. COORDINATE ANY INCOMPATIBLE ELECTRICAL CHARACTERISTICS WITH ENGINEER PRIOR TO INSTALLATION.

1.10 WHERE CONDUITS PASS THROUGH FIRE RESISTING PORTIONS OF THE STRUCTURE, THE ANNULAR SPACE BETWEEN THE STRUCTURE AND THE CONDUITS SHALL BE FILLED WITH AN APPROVED FIREPROOF MATERIAL.

1.11 THE ELECTRICAL CONTRACTOR SHALL FURNISH THE OWNER WITH A WRITTEN GUARANTEE FOR THE PERIOD OF ONE YEAR AGAINST THE FAILURE OF THE ELECTRICAL SYSTEM DUE TO FAULTY MATERIALS OR WORKMANSHIP. GUARANTEE PERIOD SHALL START AT THE DATE OF THE FINAL ACCEPTANCE BY THE ARCHITECT/ENGINEER. ALL SUCH DEFECTS MUST BE REPAIRED OR DEFECTIVE MATERIALS REPLACED BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

26 0519 LOW VOLTAGE — ELECTRICAL POWER CONDUCTORS AND CABLES

2.1 ALL CONDUCTORS AND CABLE SHALL BE DRAWN COPPER CURRENT — CARRYING CONDUCTOR WITH AN OVERALL INSULATION LAYER OR JACKET, OR BOTH RATED 600V OR LESS.

- a. LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND USE.
- b. CONDUCTOR AND CABLE MARKING: COMPLY WITH WIRE AND CABLE MARKING ACCORDING TO UL'S "WIRE AND CABLE MARKING AND APPLICATION GUIDE."
- c. THE MINIMUM WIRE SIZE SHALL NOT BE SMALLER THAN #12 AWG GAUGE CONDUCTOR, UNLESS OTHERWISE NOTED ON DRAWINGS. LARGER SIZES SHALL BE USED AS INDICATED ON THE DRAWINGS, BUT IN NO CASE SHALL THE CONDUCTOR BE SMALLER THAN THAT IS REQUIRED BY THE N.E.C.

2.2 CONDUCTOR INSULATION ON SIZE 4 AWG AND SMALLER SHALL BE TYPE THW, THHN, OR THWN-2. COMPLY WITH UL 83.

2.3 CONDUCTOR INSULATION ON SIZE 2 AWG AND LARGER SHALL BE XHHW-2. COMPLY WITH UL 44.

2.4 CONDUCTOR INSULATION FOR VFD BRANCH CIRCUITS SHALL BE XHHW-2.

2.5 CONDUCTORS INSTALLED IN DAMP AND WET LOCATIONS SHALL BE THW AND THW-2.

2.6 MANUFACTURERS — COPPER BUILDING WIRE:

- a. ALPHA WIRE COMPANY.
- b. BELDEN INC.
- c. GENERAL CABLE.
- d. OKONITE COMPANY.
- e. SOUTHWIRE COMPANY.

3.1 CONDUCTOR MATERIAL APPLICATIONS

- a. FEEDERS AND BRANCH CIRCUITS SHALL BE SOLID COPPER FOR 12 AWG AND SMALLER; STRANDED FOR 10 AWG OR LARGER.

3.2 CONDUCTOR INSULATION APPLICATIONS AND WIRING METHODS

- a. SERVICE ENTRANCE: TYPE XHHW-2, SINGLE CONDUCTORS IN RACEWAY
- b. EXPOSED FEEDERS: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY
- c. FEEDERS CONCEALED IN CEILINGS, WALLS, PARTITIONS, AND CRAWLSPACES: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY

d. FIRE ALARM: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RED RACEWAY.

26 0526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

1.1 THE MATERIALS OF EACH WIRING SYSTEM, METAL RACEWAY SYSTEM, METAL BOXES AND CABINETS, LOAD CENTERS, MOTOR FRAMES AND OTHER PERMANENTLY INSTALLED ELECTRICAL EQUIPMENT SHALL BE SOLIDLY GROUNDED AND BONDED TOGETHER IN ACCORDANCE WITH THE N.E.C.

1.2 ALL RACEWAY, EXCEPT RIGID STEEL CONDUIT, MUST CONTAIN AN INSULATED, CODE SIZED GROUNDING CONDUCTOR. CONDUCTORS SHALL BE INSULATED COPPER WITH THE SAME INSULATION TYPE AS THE OTHER CONDUCTORS CONTAINED WITHIN THE RACEWAY.

26 0533 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

1.1 CONDUIT FOR BRANCH CIRCUITS SHALL BE EMT WITH STEEL CONNECTORS AND FITTINGS, PROVIDE BUSHINGS AT BOXES AND CABINETS.

1.2 PROVIDE A GROUNDING CONDUCTOR IN EACH CONDUIT.

1.3 ALL WIRING CONCEALED UNLESS NOTED OTHERWISE.

26 0553 IDENTIFICATION FOR ELECTRICAL SYSTEMS

1.1 IDENTIFICATION OF PANELBOARD, DISCONNECTS, VFD, AND OTHER ELECTRICAL CONTRACTOR EQUIPMENT SHALL CONFORM TO EXISTING BUILDING STANDARDS.

1.2 FOR NEW CONSTRUCTION PANELBOARD, SWITCHBOARDS, DISCONNECTS, AND OTHER ELECTRICAL EQUIPMENT SHALL CONTAIN THE FOLLOWING INFORMATION:

- a. FIRST LINE SHALL CONTAIN PANEL NAME AS INDICATED ON DRAWINGS. EXAMPLE: MDP
- b. SECOND LINE SHALL CONTAIN PANEL/EQUIPMENT VOLTAGE AND PANEL/EQUIPMENT AMPACITY. EXAMPLE: 480/277V 3PH 4W 400A
- c. THIRD LINE SHALL CONTAIN PANEL AND CIRCUIT INFORMATION THAT PANEL/EQUIPMENT IS FED FROM. EXAMPLE: FED FROM MAIN PANEL WITH 400A BREAKER
- d. FOURTH LINE SHALL BE CALCULATED FAULT CURRENT AT DEVICE LOCATION. EXAMPLE: CALCULATED FAULT CURRENT 54,324A.

1.3 LABEL SHALL BE ENGRAVED 1/6" PLASTIC DUAL LAYER IMPACT ACRYLIC WITH MATTE SURFACE RATED FOR INDOOR AND OUTDOOR INSTALLATIONS. LABEL SHALL BE SIZED AT 1-1/2" X 3" TO ACCOMMODATE 4 LINES OF TEXT.

1.4 LABEL COLOR FOR NORMAL POWER SHALL BE BLACK WITH WHITE LETTERING. EMERGENCY PANELS SHALL BE RED WITH WHITE LETTERING.

26 0923 LIGHTING CONTROL DEVICES

2.1 PROVIDE LIGHTING CONTROL DEVICES AS NOTED ON DRAWINGS.

- 2.2 MANUFACTURERS:
- a. ACUITY BRANDS INC.
 - b. WATTSTOPPER
 - c. CRESTRON
 - d. OR APPROVED EQUAL

2.3 TIME SWITCHES

- a. ELECTRONIC TIME SWITCH SHALL BY INTERMATIC INC OR APPROVED EQUAL.
- b. SWITCHES SHALL BE LOCATED IN UL LISTED ENCLOSURE AS INDICATED ON DRAWINGS.

2.4 LIGHTING CONTACTORS SHALL BE MECHANICALLY OR ELECTRONICALLY HELD COMBINATION TYPE. SEE DRAWINGS FOR CONTACTOR RATING AND QUANTITY OF POLES.

3.1 INSTALLATION

- a. INSTALL AND AIM SENSORS IN LOCATIONS TO ACHIEVE NOT LESS THAN 90 PERCENT COVERAGE OF AREAS INDICATED. DO NOT EXCEED COVERAGE LIMITS SPECIFIED IN MANUFACTURER'S WRITTEN INSTRUCTIONS.
- b. OCCUPANCY ADJUSTMENTS: WHEN REQUESTED WITHIN 12-MONTHS FROM DATE OF SUBSTANTIAL COMPLETION PROVIDE ON-SITE ASSISTANCE IN ADJUSTING SENSOR TO SUIT ACTUAL OCCUPIED CONDITIONS. PROVIDE UP TO TWO VISITS TO PROJECT DURING OTHER-THAN-NORMAL OCCUPANCY HOURS FOR THIS PURPOSE.

3.2 FIELD QUALITY CONTROL

A. PERFORM THE FOLLOWING TESTS AND INSPECTIONS.

- 1. OPERATIONAL TEST: AFTER INSTALLING TIME SWITCHES AND SENSORS, AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER UNIT OPERATION.
- 2. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.

26 2416 PANELBOARDS:

1.1 PANELBOARD SHALL BE DEAD FRONT SAFETY TYPE EQUAL TO SQUARE 'D' NQOD SERIES.

1.2 PANEL SHALL BE EQUIPPED WITH NEUTRAL/GROUND BAR.

1.3 PANEL SHALL BE EQUIPPED WITH FLUSH MOUNT LATCH AND LOCK COMPLETE WITH SIX KEYS. ALL LOCKS SHALL BE KEYED ALIKE.

1.4 MOLDED CASE CIRCUIT BREAKERS SHALL HAVE OVER CENTER TOGGLE-TYPE MECHANISMS, PROVIDING QUICK-MAKE, QUICK-BREAK ACTION. BREAKERS SHALL BE CALIBRATED FOR OPERATION IN AN AMBIENT TEMPERATURE OF 40 DEGREES C. EACH CIRCUIT BREAKER SHALL HAVE TRIP INDICATION BY HANDLE POSITION AND SHALL BE TRIP-FREE. TWO AND THREE POLE BREAKERS SHALL BE COMMON TRIP. EACH CIRCUIT BREAKER SHALL HAVE A PERMANENT TRIP UNIT CONTAINING INDIVIDUAL THERMAL AND MAGNETIC TRIP ELEMENT. CIRCUIT BREAKERS SHALL BE SUITABLE FOR MOUNTING AND OPERATION IN ANY POSITION.

1.5 CONNECTIONS TO THE BUSS SHALL BE BOLT-ON.

26 2726 WIRING DEVICES

1.3 ALL LIGHT SWITCHES SHALL BE QUIET TYPE, 120/277 VOLT, 20 AMPERE SPECIFICATION GRADE, LEVITON OR EQUAL. RECEPTACLES SHALL BE 125 VOLT, 20 AMPERE, DUPLEX GROUNDING TYPE SPECIFICATION GRADE, LEVITON OR EQUAL. COLOR SHALL BE IVORY. PLATES SHALL BE .035" THICK STAINLESS STEEL.

1.4 GROUND FAULT INTERRUPTER CIRCUIT (GFCI) RECEPTACLE SHALL BE SPECIFICATION GRADE RATED 125 VOLTS, 20 AMPERES, NEMA 5-R20 CONFIGURATION.

1.5 EXTERIOR RECEPTACLES SHALL BE GFCI RATED WITH EXTRA DUTY DIE-CAST IN-USE ALUMINUM WEATHERPROOF COVER. INTERMATIC WP1250MVXD OR EQUAL.

1.6 BOILER E-STOP DEVICE SHALL BE STOPPER STATION WITH STOPPER STATION SHIELD SS2229ZA-EN OR APPROVED EQUAL.

26 2813 FUSES

1.1 FUSES 600 AMPERES AND BELOW, SHALL BE U.L. CLASS 'RK1' WITH SEPARATE OVERLOAD AND SHORT-CIRCUIT ELEMENTS. SHORT-CIRCUIT ELEMENT SHALL BE PURE SILVER FOR RATINGS ABOVE 60 AMPERES. THE FUSE MUST HOLD 500% OF RATED CURRENT FOR A MINIMUM OF 10 SECONDS AND HAVE AN INTERRUPTING RATING OF 200,000 AMPERES 'RMS' SYMMETRICAL. FUSES SHALL BE EQUAL TO BUSSMAN LOW-PEAK TYPE.

1.2 UNUSUAL MOTOR OR EQUIPMENT STARTING CONDITIONS NECESSITATING FUSE OVER SIZING SHALL BE REFERRED TO THE ELECTRICAL ENGINEER.

26 2816 ENCLOSED SWITCHES AND CIRCUIT BREAKERS

1.1 DISCONNECT SWITCHES SHALL MEET ALL REQUIREMENTS OF NEMA TYPE 'HD' WITH QUICK-MAKE MECHANISM AND FULL COVER INTERLOCK, RATED 600 OR 250 VOLTS AS REQUIRED. FUSIBLE SWITCHES SHALL BE EQUIPPED WITH A U.L. LISTED REJECTION FEATURE TO REFLECT ALL BUT CLASS 'R' FUSES.

26 2913 MOTOR STARTERS:

1.1 MANUAL STARTERS SHALL CONSIST OF A MANUALLY OPERATED TOGGLE SWITCH EQUIPPED WITH MELTING TYPE THERMAL OVERLOAD RELAY. ONE OR TWO POLE STARTERS SHALL BE FURNISHED AS REQUIRED TO DISCONNECT EACH UNGROUNDED CONDUCTOR. STARTERS SHALL BE INSTALLED IN GENERAL PURPOSE ENCLOSURES AND SHALL BE EQUIPPED WITH PILOT LIGHT. STARTERS SHALL BE EQUAL TO SQUARE 'D' CLASS #2510 UNLESS OTHERWISE DESIGNATED.

1.2 HEATERS SHALL BE FURNISHED BY THIS CONTRACTOR AND SIZED IN ACCORDANCE WITH EQUIPMENT OR MOTOR MANUFACTURER'S RECOMMENDATIONS. THREE POLE STARTERS SHALL BE PROVIDED WITH OVERLOAD PROTECTION ON EACH POLE.

26 5619 LED LIGHTING FIXTURES

1.1 THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHT FIXTURES AS INDICATED ON THE DRAWINGS.

1.2 LIGHT FIXTURES SHALL BE SECURELY FASTENED TO WALL OR CEILING.

27 1513 COMMUNICATIONS COPPER HORIZONTAL CABLING

1.1 CONTRACTOR SHALL PROVIDE TELEPHONE AND/OR DATA OUTLET BOXES, BLANK COVERS, AND CAT 6 PLENUM RATED WIRING FOR EACH JACK BACK TO THE TELEPHONE BACKBOARD.

1.2 TELEPHONE AND/OR DATA SYSTEM WIRING SHALL BE INSTALLED IN 1/4 INCH EMT, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL STUB ALL CONDUITS ABOVE SUSPENDED CEILING FOR WIRING TO TELEPHONE AND/OR DATA EQUIPMENT AREA. THE WIRING SHALL BE LOW VOLTAGE WIRING, NEC TYPE: CL3P. CAT 6 PLENUM RATED WIRING SHALL BE USED FOR ALL DATA OUTLETS AND ALL VOICE OUTLETS.

1.3 CONTRACTOR SHALL REFER TO DIVISION 0 FOR ADDITIONAL PHONE/DATA AND FIRE/SECURITY ALARM REQUIREMENTS.

1.4 THE CONTRACTOR SHALL LOCATE TELEPHONE AND/OR DATA OUTLETS AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH TENANT'S REQUIREMENTS.



Architecture Engineering
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112 No Roberts Street, Suite 300, Fargo ND 58102
www.eapc.net

CLIENT
WATFORD CITY PARK DISTRICT

PROJECT DESCRIPTION
WATFORD CITY PARK SHOP

CITY WATFORD CITY
STATE ND

ISSUE DATES

MARK	DESCRIPTION	DATE
1	ADDENDUM 1	04/09/2026
CD	100% CONSTRUCTION DOCUMENTS	03/25/2026

PROJECT NO: 20262250

DRAWN BY: TA

CHECKED BY: BW

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SPECIFICATIONS

E050

GENERAL NOTES

- A. LIGHTING ALL JUNCTION BOXES ABOVE ACCESSIBLE CEILING WITH INDELIBLE INK TO INDICATE PANEL AND CIRCUIT.
- B. LABEL ALL HOME RUNS WITH INDELIBLE INK TO INDICATE PANEL AND CIRCUIT.
- C. PROVIDE APPROVED FIRE PROOFING MATERIALS / METHODS FOR CABLE PASSING THROUGH FIRE WALLS AND FLOORS.
- D. LABEL ALL DEVICES INCLUDING SWITCHES, TO INDICATE PANEL AND CIRCUIT. USE ADHESIVE MYLAR TYPE.
- E. PROVIDE #10 CONDUCTORS THROUGHOUT ALL 120V, 20A BRANCH CIRCUIT OF 100'-0" OR GREATER IN LENGTH.
- F. PROVIDE ALL DEVICES AND ASSOCIATED WIRING AS SHOWN.
- G. MC CABLE SHALL BE USED IN WALLS FOR SINGLE CIRCUIT RUNS AND SWITCH LEGS. SWITCH LEGS SHALL CONTAIN ONE EXTRA CONDUCTOR. MC CABLE MAY NOT BE USED ABOVE CEILING IN ANY INSTANCE, AND MAY NOT BE USED IN WALLS OF ROOMS THAT DO NOT HAVE ACCESSIBLE CEILING. DO NOT USE THROUGH SMOKE / FIRE WALLS.
- H. OCCUPANCY SENSORS ARE SHOWN FOR INTENT PURPOSES ONLY. LOCATION, SPACING, AND QUANTITY WILL DEPEND ON SELECTED MANUFACTURER.

KEYNOTE LEGEND:

- <<< INDICATES KEYNOTE ON PLAN
- 1. COORDINATE EXACT LUMINAIRE LOCATION WITH MECHANICAL EQUIPMENT THIS ROOM PRIOR TO ROUGH-IN.
- 2. FIXTURES IN ROOM SHALL BE MOUNTED AT 9' FINISHED FLOOR.
- 3. PROVIDE FIXTURE AND SWITCH AND RECEPTACLE IN ATTIC SPACE. COORDINATE WITH ARCHITECTS.

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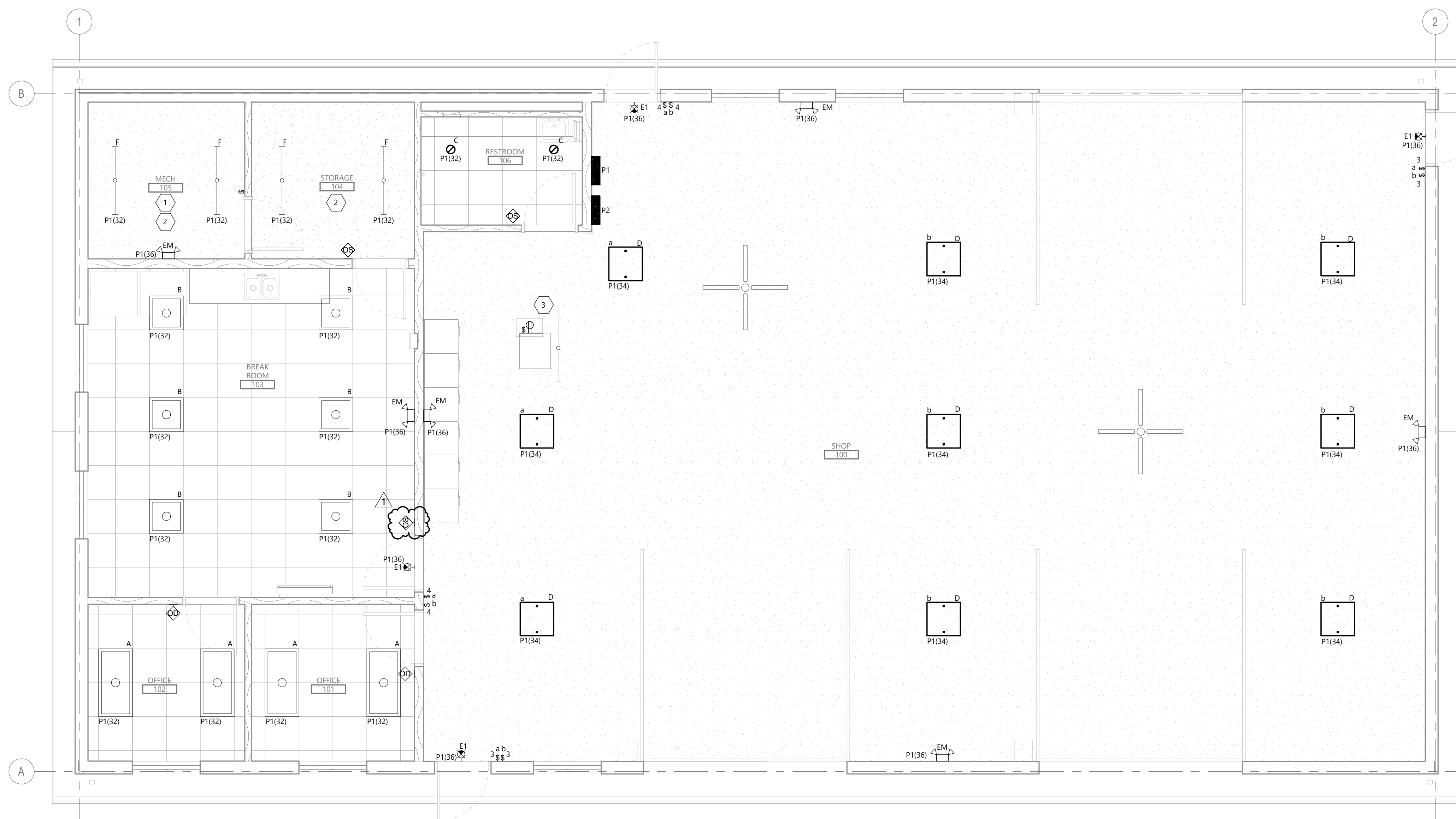
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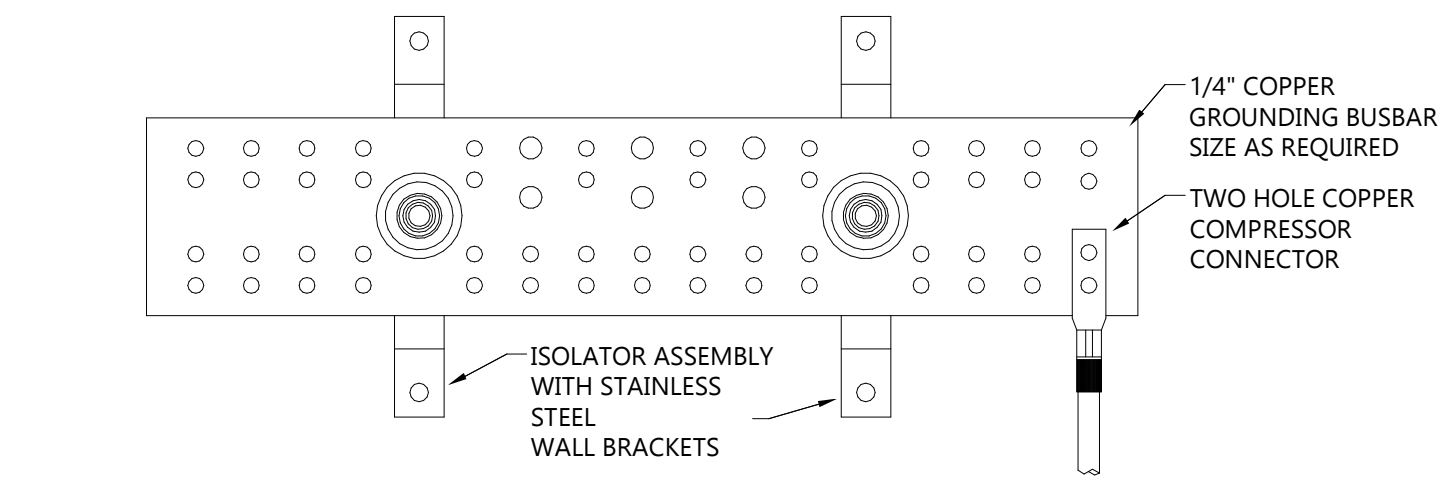
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FIRST FLOOR LIGHTING PLAN

E301

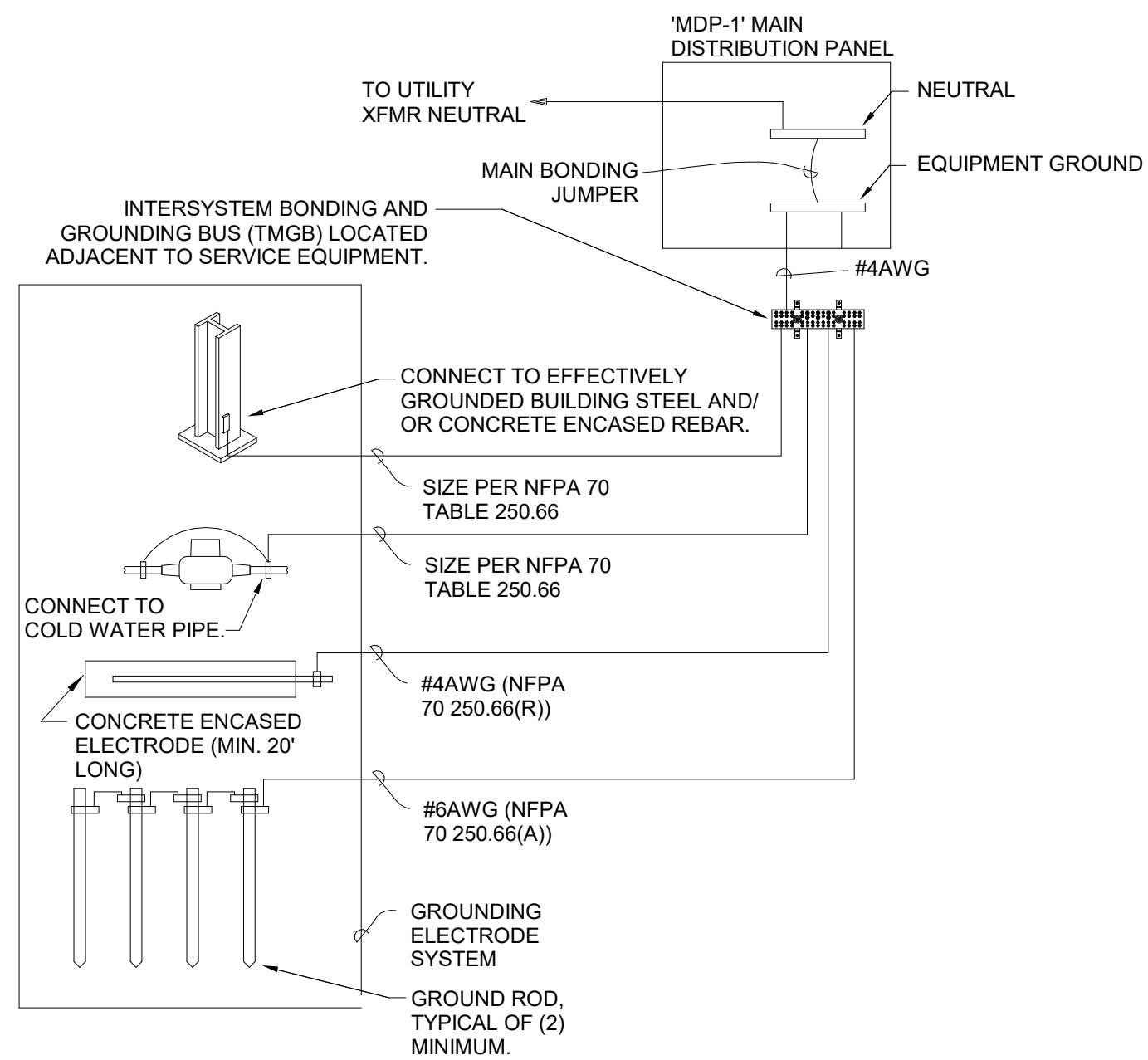


1 FIRST FLOOR LIGHTING PLAN
E301 1/4" = 1'-0"

Revised: 04/09/2026
Plot Date: 03/25/2026 1:52:38 PM



3 GROUND BAR DETAIL
E801 1/8" = 1'-0"

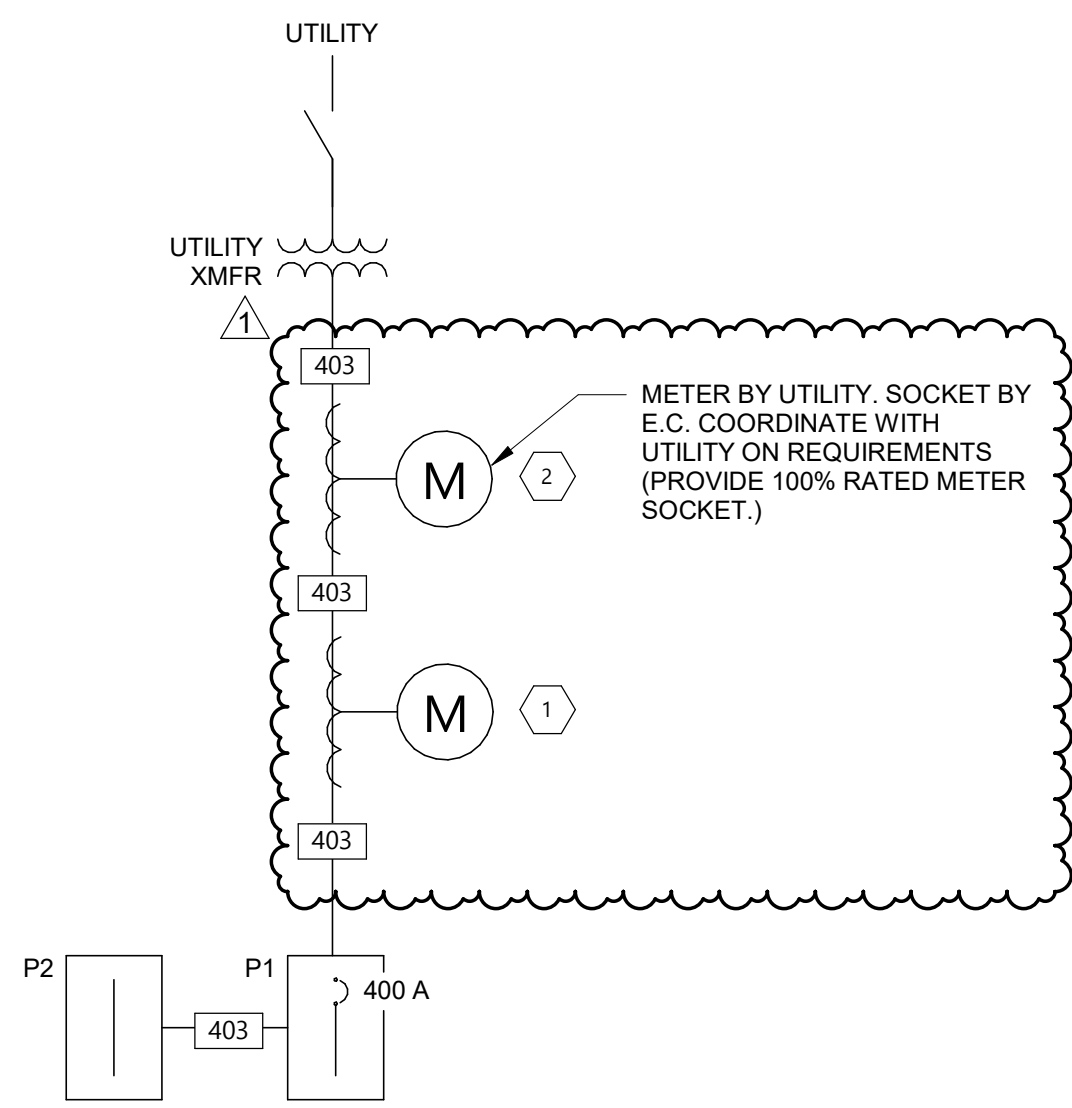


2 POWER SYSTEM GROUND DETAIL
E801 1/8" = 1'-0"

FEEDER SCHEDULE ALUMINUM		
AMPACITY	FEEDER TAG	CONDUIT & THHN WIRE 75°C
40	43A	1" C - 3 #6 & 1 #8 GND
200	204A	3" C - 4 #250KCMIL & 1 #4 GND

FEEDER SCHEDULE COPPER		
AMPACITY	FEEDER TAG	CONDUIT & THHN WIRE 75°C
20	22	3/4" C - 2 #12 & 1 #12 GND
400	403	(2) 2 1/2" C - 3 #3/0 & 1 #3 GND

- SHEET NOTES**
- ENERGY METER SHALL BE VERIS INDUSTRIES E5X OR APPROVED EQUAL. METER SHALL HAVE BACNET AND ETHERNET CARDS. METER SHALL BE SET UP BY EC FOR RECORDING PEAK DEMAND AND INSTANTANEOUS VALUES.
 - METER SOCKET SHALL BE EQUIPPED WITH LEVER BYPASS AND SHALL BE SELECTED FROM MDU APPROVED METER SOCKETS.



1 FEEDER RISER DIAGRAM
E801 NOT TO SCALE

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WATFORD CITY PARK DISTRICT

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DRAWING TITLE
ONE-LINE DIAGRAM

E801

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WATFORD CITY PARK DISTRICT

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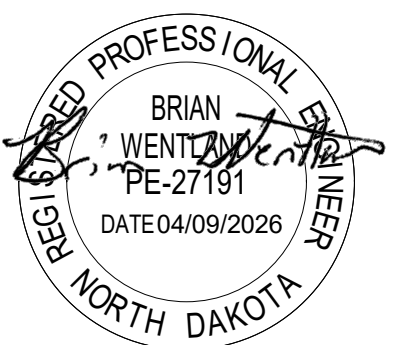
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DRAWING TITLE
LIGHTING SCHEDULES & DETAILS

E803

LIGHTING CONTROL SCHEDULE												
SYMBOL	MANUFACTURER	CATALOG NAME	MOUNTING			VOLTAGE		TYPE			NOTES	DESCRIPTION
			WALL	CLING	ABV. CLG	LINE	LOW	OCCUPANCY	VACANCY	OTHER		
OS	SENSOR SWITCH	CM PDT 9/10 R D		X			X	X			5	CEILING MOUNTED SENSOR, DUAL TECHNOLOGY, SMALL OR LARGE MOTION TO BE DETERMINED BY MANUFACTURER, LOW VOLTAGE RELAY, DIMMING OPTION
OD	SENSOR SWITCH	WSX PDT D	X				X	X				WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH INTEGRAL 0-10V DIMMING WITH ON/OFF BUTTON
OS	SENSOR SWITCH	WSX PDT	X				X	X				WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH ON/OFF SWITCH
S	NLIGHT	NPODMA	X					X				SWITCH SHALL BE MINIMUM TWO BUTTON FOR ON AND OFF UNLESS NOTED OTHERWISE ON THE DRAWINGS. CAT6 CONNECTION BETWEEN DEVICE AND POWER PACK.
D	NLIGHT	NPODMA DX	X					X				DIMMER SWITCH SHALL BE MINIMUM ON/OFF BUTTON WITH SEPERATE BUTTONS FOR DIMMING UP AND DIMMING DOWN UNLESS NOTED OTHERWISE ON DRAWINGS. CAT 6 CONNECTION BETWEEN DEVICE AND POWER PACK
Ø	LUTRON OR EQUAL	DIVA	X								4	120/277V 20A ROCKER SWITCH WITH 0-10V DIMMING. MULTI-WAY SWITCHING TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR FOR SPACE REQUIREMENTS.
S	LUTRON OR EQUAL	20A TOGGLE SWITCH	X								3	120/277V 20A TOGGLE SWITCH. MULTI-WAY SWITCHING TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR FOR SPACE REQUIREMENTS.

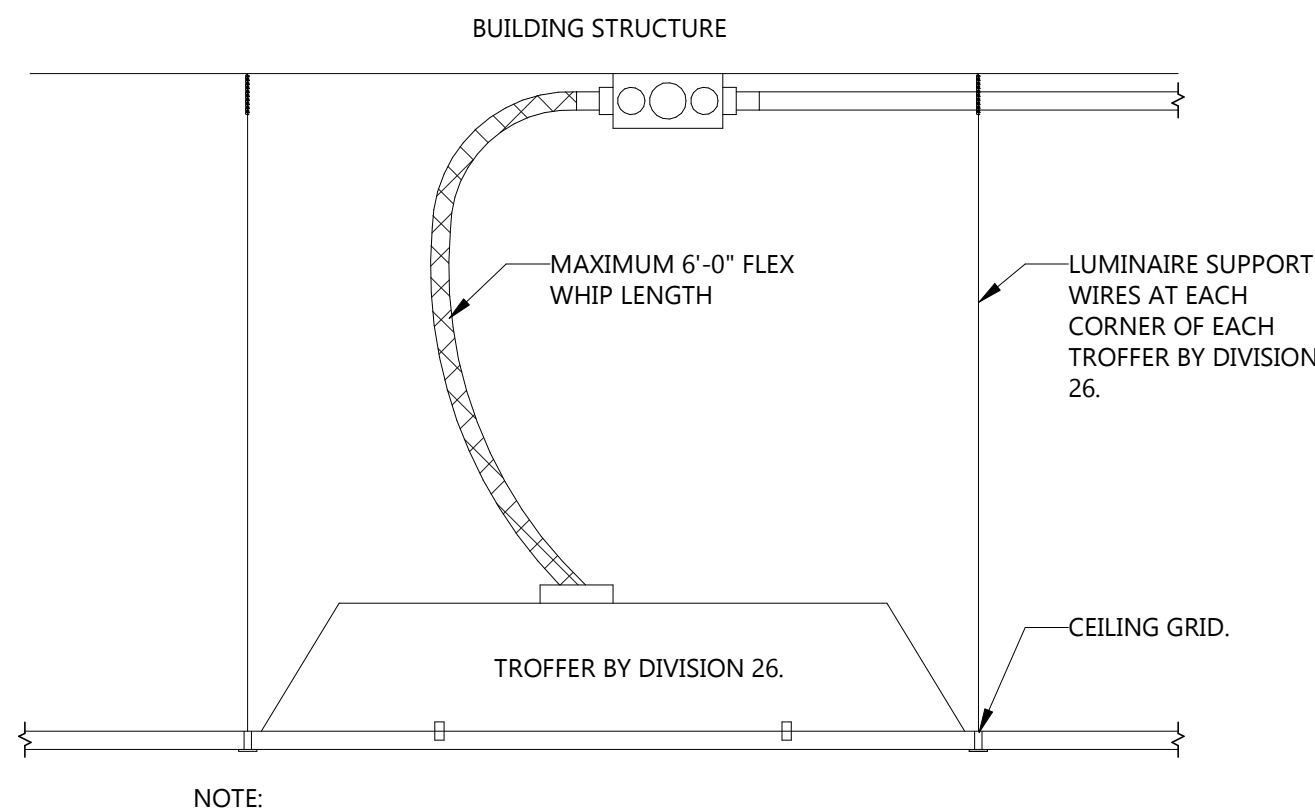
GENERAL NOTES:
A. ALL SENSORS ARE SHOWN FOR CONTROL PURPOSE ONLY; ADDITIONAL DEVICE/POWER MAY BE REQUIRED FOR A COMPLEX SYSTEM. VERIFY REQUIRED DEVICES WITH SYSTEM PROVIDER AND INSTALL COMPLETE SYSTEM.
B. WIRE LIGHTING CONTROL COMPONENTS PER MANUFACTURERS INSTRUCTIONS.
C. APPROVED MANUFACTURERS: WATTSTOPPER, CRESTRON, ACUITY BRANDS.
D. SEE SPECIFICATION SECTION 262726 OR ON DRAWINGS SPECIFICATIONS FOR FACEPLATE AND DEVICE COLOR.

NOTES:
1. NUMBER REPRESENTS QUANTITY OF RELAYS PER DEVICE. SEE LIGHTING SHEETS FOR NUMBER OF RELAYS AND CONTROL ZONES. MULTI-RELAY ROOM CONTROLLERS MAY BE USED IN LIEU OF SINGLE RELAY ROOM CONTROLLERS.
2. SEE SWITCH DETAILS FOR MORE INFORMATION ON SPECIFIC TIMECLOCK SWITCHES/DIMMERS BUTTON LAYOUT AND ENGRAVING.
3. FOR USE AT BACK OF HOUSE, UNFINISHED SPACES, AND 120V 20A MOTOR DISCONNECTS SHALL BE STANDARD TOGGLE SWITCHES. SEE SPECIFICATION SECTION 262726 OR ON DRAWINGS SPECIFICATION FOR ADDITIONAL INFORMATION.
4. A LINE VOLTAGE DIMMER SHALL ONLY BE USED IN RESIDENTIAL INSTALLATIONS OR WHERE THE LUMINAIRE SUPPORTS ONLY LINE VOLTAGE DIMMING.
5. MANUFACTURER SHALL DETERMINE IF SENSOR SHALL COME WITH INTEGRAL PHOTOCELL IN LIEU OF STAND ALONG DEVICE AS NEEDED FOR DEVICE.

LUMINAIRE SCHEDULE										
TYPE	MANUFACTURER	CATALOG NAME	MOUNTING	LOCATION	VOLTAGE	CCT	LUMENS	WATTS	NOTES	DESCRIPTION
A	METALUX	24ARS-L3C3-UNV-3500K-LOW	CEILING	ACT	UNV	3500	3400	25 W		2X4 LED TROFFER
B	METALUX	22ARS-L3C3-UNV-3500K-LOW	CEILING	ACT	UNV	3500	2700	21 W		2X2 LED TROFFER
C	METALUX	24ARS-L3C3-UNV-3500K-LOW	CEILING	ACT	UNV	3500	3400	25 W		2X4 LED TROFFER
D	METALUX	SPHB-155E-W-UNV-L840-U	SUSPENDED	CEILING	UNV	4000	12000	76 W		LED HIGH BAY LIGHT
E	SURE LITES	SP2S	SURFACE	WALL	UNV			1 W		WALL MOUNTED EXI LIGHT
EM	SURE LITES	SP2SLED30	SURFACE	WALL	UNV			1 W		EMERGENCY BUG-EYE LIGHT
F	METALUX	4SLSTP4040DD-120V	SUSPENDED	CEILING	120 V	4000	5000	23 W		4' LED STRIP LIGHT

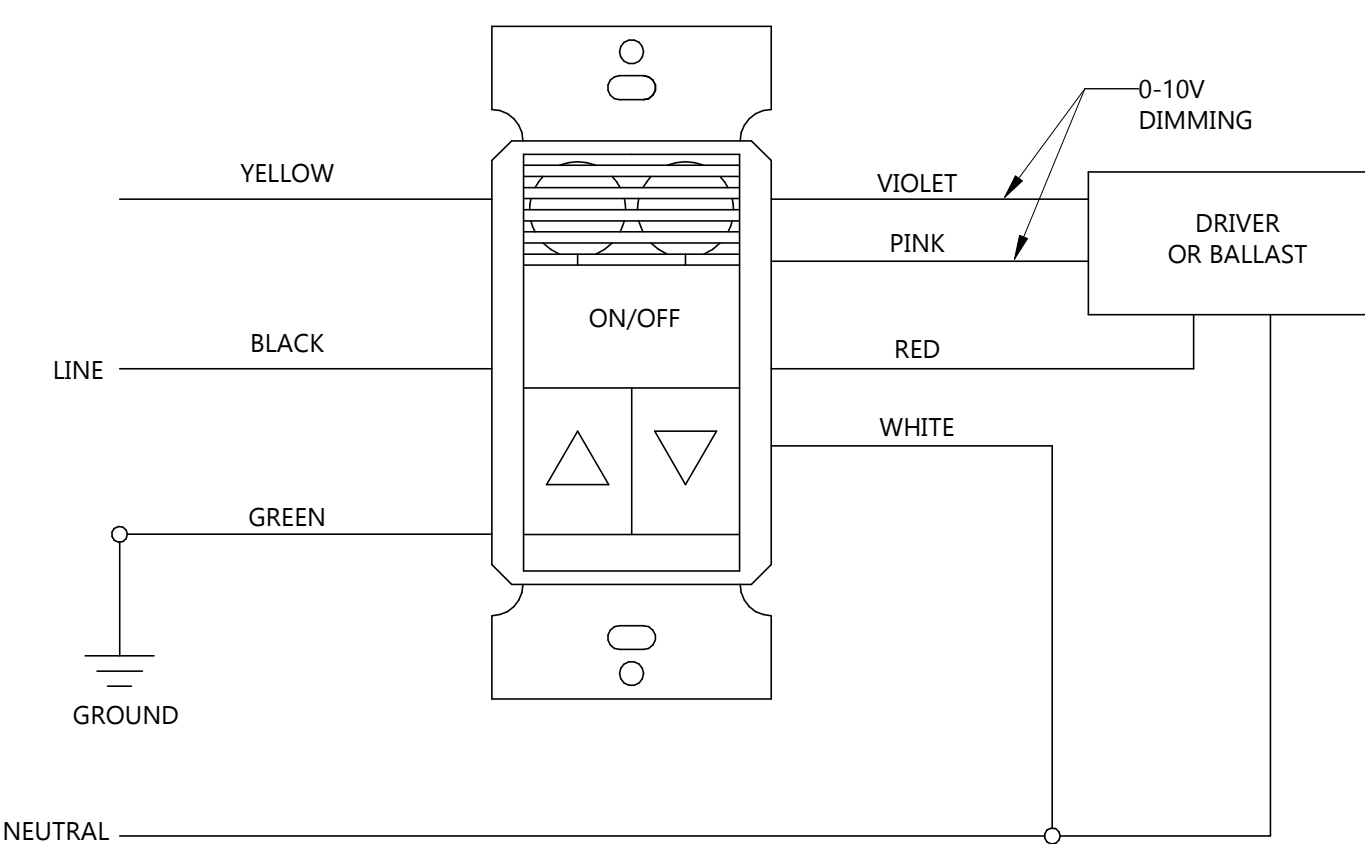
NOTES:
1. NOTE
2. NOTE
3. NOTE

LUMINAIRE SCHEDULE - EXTERIOR										
TYPE	MANUFACTURER	CATALOG NAME	MOUNTING	LOCATION	VOLTAGE	CCT	LUMENS	WATTS	NOTES	DESCRIPTION
AA	SLG	WV L570 G2 FSK-3000LM-40K MS-DCE-06-W-BT5.0	SURFACE	SITE	120V	4000	3000	18 W		EXTERIOR WEDGE LIGHT WITH INTEGRAL PHOTOCELL AND PIR SENSOR



- NOTE:
- DO NOT LOOP FLEX WHIPS FIXTURE-TO- FIXTURE. PROVIDE JUNCTION BOX AS SHOWN.
 - FLEX WHIP SHALL NOT REST ON CEILING GRID. PROVIDE ADDITIONAL SUPPORTS AS NEEDED.

2 TROFFER INSTALLATION DETAIL
E803 NOT TO SCALE



NOTE: REQUIRES CLASS 1 WIRING FOR 0-10V DIMMING

1 DUAL TECH SENSOR SWITCH OD WIRING DETAIL
E803 NOT TO SCALE

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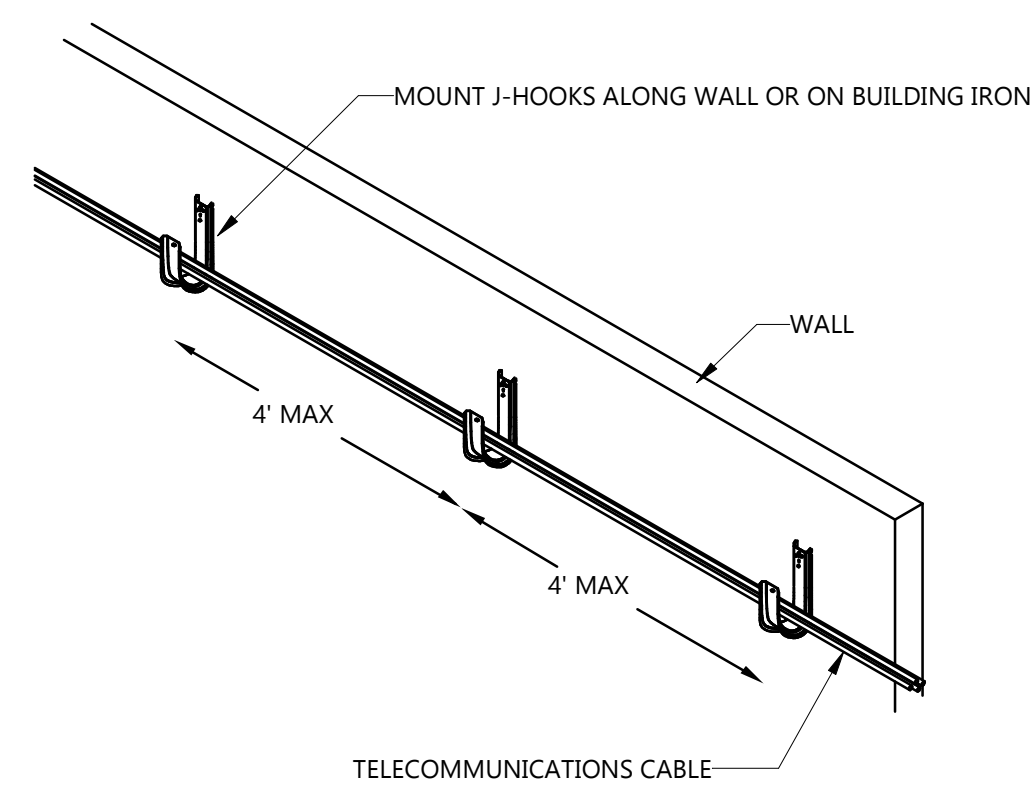
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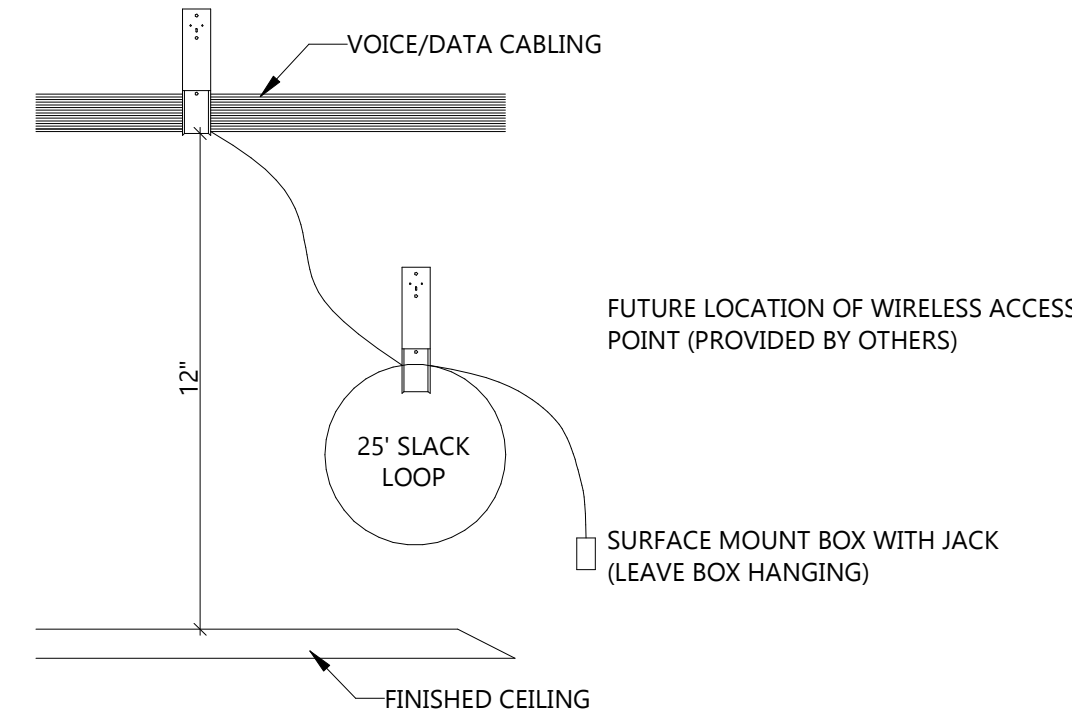


DRAWING TITLE
DETAILS, SCHEDULES & RISER DIAGRAMS

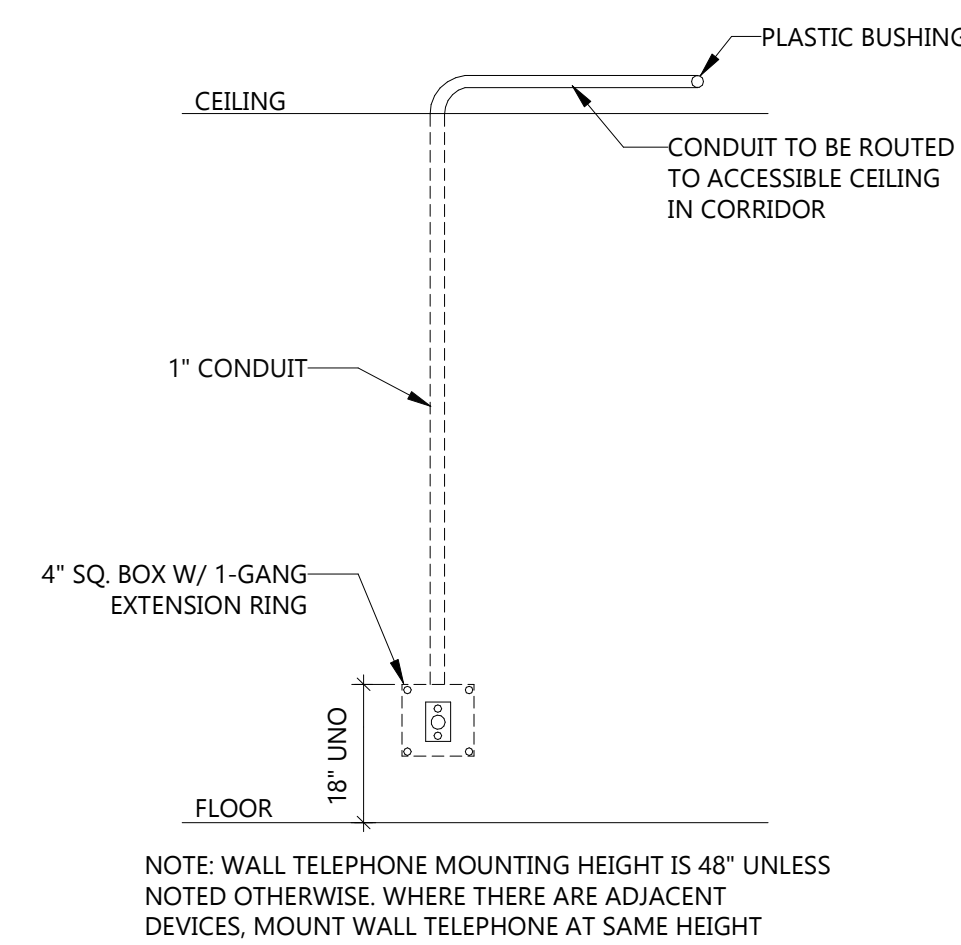
E804



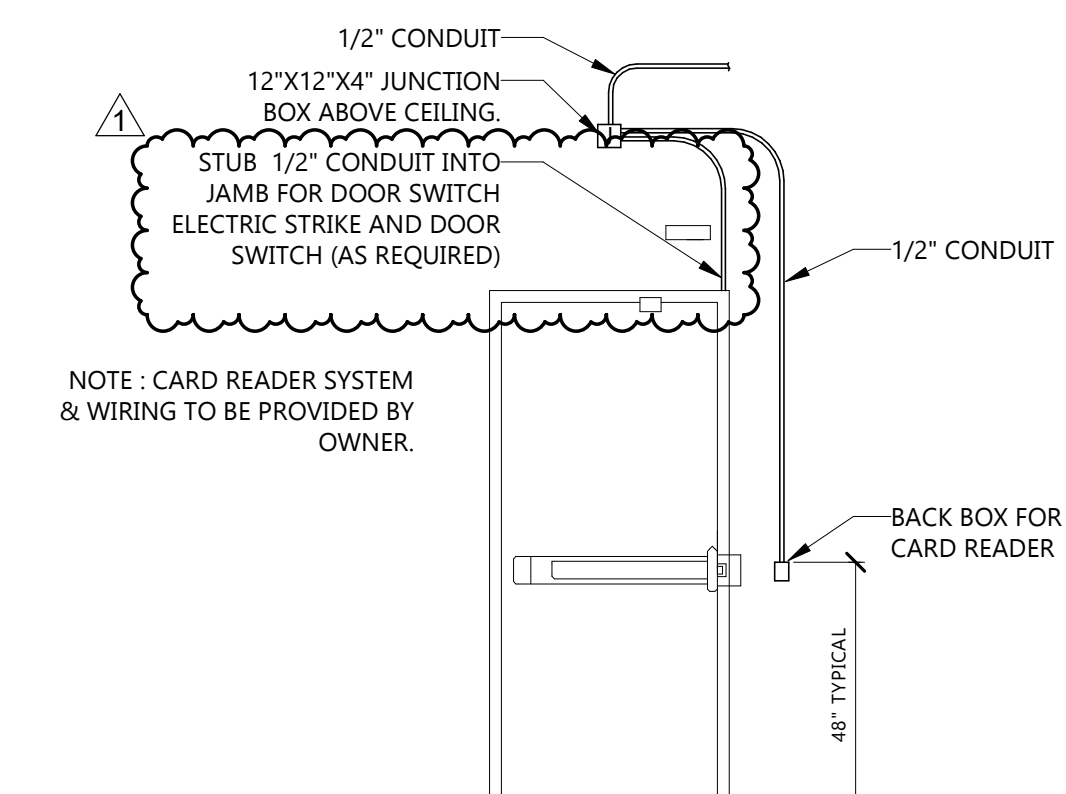
4 J-HOOK ROUTING DETAIL
NOT TO SCALE



3 TYPICAL WIRELESS ACCESS POINT DETAIL
NOT TO SCALE



2 DATA/TELEPHONE ROUGH-IN DETAIL
NOT TO SCALE



1 SINGLE DOOR CARD READER ROUGH-IN DETAIL
NOT TO SCALE

NEW PANEL: P2

LOCATION: SHOP 100
 SUPPLY FROM: P1
 MOUNTING: Surface
 ENCLOSURE: NEMA 1

VOLTS: 120/240 Single
 PHASING: 1
 WIRES: 3

A.I.C. RATING: 22kA
 CALCULATED A.I.C.: 19006 A
 MAINS TYPE: MLO
 MAINS RATING: 400 A
 BUS RATING: 400 A

CKT	CIRCUIT DESCRIPTION	CODES	TRIP	POLES	A	B	POLES	TRIP	CODES	CIRCUIT DESCRIPTION	CKT	
1	EXTERIOR LIGHTING		20 A	1	100 VA	648 VA	1	20 A		ERU-1 (M#5)	2	
3	WELDER RECEIPT		20 A	1		180 VA	1176 VA	1	20 A	EF-1 (M#6)	4	
5	F-1 (M#1)		15 A	1	936 VA	696 VA	1	20 A		GUH-1 (M#7)	6	
7	ACCU-1 (M#2)		20 A	2	1800 VA	600 VA	1	20 A		GUH-2 (M#8)	8	
9			20 A	2			1	20 A		WH-1 (M#9)	10	
11	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	12
13	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	14
15	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	16
17	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	18
19	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	20
21	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	22
23	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	24
25	SPACE		--	1	--	--	--	--	1	--	SPACE	26
27	SPACE		--	1	--	--	--	--	1	--	SPACE	28
29	SPACE		--	1	--	--	--	--	1	--	SPACE	30
31	SPACE		--	1	--	--	--	--	1	--	SPACE	32
33	SPACE		--	1	--	--	--	--	1	--	SPACE	34
35	SPACE		--	1	--	--	--	--	1	--	SPACE	36
37	SPACE		--	1	--	--	--	--	1	--	SPACE	38
39	SPACE		--	1	--	--	--	--	1	--	SPACE	40
41	SPACE		--	1	--	--	--	--	1	--	SPACE	42

CONNECTED LOAD:	4780 VA	3852 VA	
EXISTING LOAD:	0 VA	0 VA	
TOTAL LOAD:	4780 VA	3852 VA	HIGH PHASE
FEED THRU AMPS:	0 A	0 A	4780 VA
TOTAL AMPS:	40 A	32 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	13	AFCI 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	8352 VA	100.00%	8352 VA	TOTAL CONN. LOAD: 8632 VA
Other	100 VA	100.00%	100 VA	
Receptacle	180 VA	100.00%	180 VA	TOTAL EST. DEMAND: 8632 VA
				TOTAL CONN.: 36 A
				TOTAL EST. DEMAND: 36 A

NOTES:

1. CAN BE PROVIDED AS (1) 84-CIRCUIT PANEL

NEW PANEL: P1

LOCATION: SHOP 100
 SUPPLY FROM:
 MOUNTING: Surface
 ENCLOSURE: NEMA 1

VOLTS: 120/240 Single
 PHASING: 1
 WIRES: 3

A.I.C. RATING: 22kA
 CALCULATED A.I.C.: 20848 A
 MAINS TYPE: MCB
 MAINS RATING: 400 A
 BUS RATING: 400 A

CKT	CIRCUIT DESCRIPTION	CODES	TRIP	POLES	A	B	POLES	TRIP	CODES	CIRCUIT DESCRIPTION	CKT	
1	RECEPT MECH. RM 105		20 A	1	720 VA	180 VA	1	20 A		RECEPT RM 103	2	
3	RECEPT RM 104		20 A	1		720 VA	720 VA	1	20 A	RECEPT RM 103	4	
5	RECEPT RM 104		20 A	1	180 VA	720 VA	1	20 A		RECEPT RM 103	6	
7	FREZER RECEIPT		20 A	1		1000 VA	180 VA	1	20 A	RECEPT RM 103 TV	8	
9	RECEPT RM 103 FRIDGE		20 A	1	1000 VA	180 VA	1	20 A		RECEPT RM 103 MICROWAVE	10	
11	RECEPT RM 102		20 A	1		360 VA	540 VA	1	20 A	RECEPT RM 102	12	
13	RECEPT RM 101		20 A	1	360 VA	540 VA	1	20 A		RECEPT RM 101	14	
15	RECEPT RM 100		20 A	1		180 VA	1080 VA	1	20 A	RECEPT RM 100	16	
17	RECEPT RM 100		20 A	1	180 VA	180 VA	1	20 A		RECEPT RM 106	18	
19	RECEPT RM 100		20 A	1		540 VA	180 VA	1	20 A	RECEPT RM 100	20	
21	RECEPT RM 100		20 A	1	720 VA	360 VA	1	20 A		RECEPT RM 100	22	
23			20 A	1		588 VA	180 VA	1	20 A	RECEPT RM 100	24	
25	OH DOOR		20 A	2	588 VA	1260 VA	1	20 A		RECEPT RM 100	26	
27	OH DOOR		20 A	2		588 VA	588 VA	2	20 A	OH DOOR	28	
29			20 A	2	588 VA	588 VA	1	20 A			30	
31	RECEPT EXTERIOR		20 A	1	900 VA	687 VA	1	20 A		LIGHTING 101-106	32	
33	RECEPT EXTERIOR		20 A	1		1080 VA	340 VA	1	20 A	LIGHTING 100	34	
35	CEILING FAN RM 100		20 A	1		500 VA	80 VA	1	20 A	EMERGENCY LIGHTING	36	
37	CEILING FAN RM 100		20 A	1	500 VA	0 VA	1	20 A		SPARE	38	
39	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	40
41	SPARE		20 A	1	0 VA	0 VA	0 VA	0 VA	1	20 A	SPARE	42

CONNECTED LOAD:	15211 VA	13296 VA	
EXISTING LOAD:	0 VA	0 VA	
TOTAL LOAD:	15211 VA	13296 VA	HIGH PHASE
FEED THRU AMPS:	40 A	32 A	15211 VA
TOTAL AMPS:	127 A	111 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	13	AFCI 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
Lighting	1107 VA	125.00%	1383 VA	TOTAL CONN. LOAD: 28507 VA
Motor	11880 VA	100.00%	11880 VA	
Other	100 VA	100.00%	100 VA	TOTAL EST. DEMAND: 26573 VA
Power	1000 VA	100.00%	1000 VA	TOTAL CONN.: 119 A
Receptacle	14420 VA	84.67%	12210 VA	TOTAL EST. DEMAND: 111 A

NOTES:

1. PROVIDE WITH SUBFEED LUGS.
 2. CAN BE PROVIDED AS (1) 84-CIRCUIT PANEL.



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 Interior Design Industrial

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 SCHEDULES

PANEL INDEX E901

P2 P1

E901