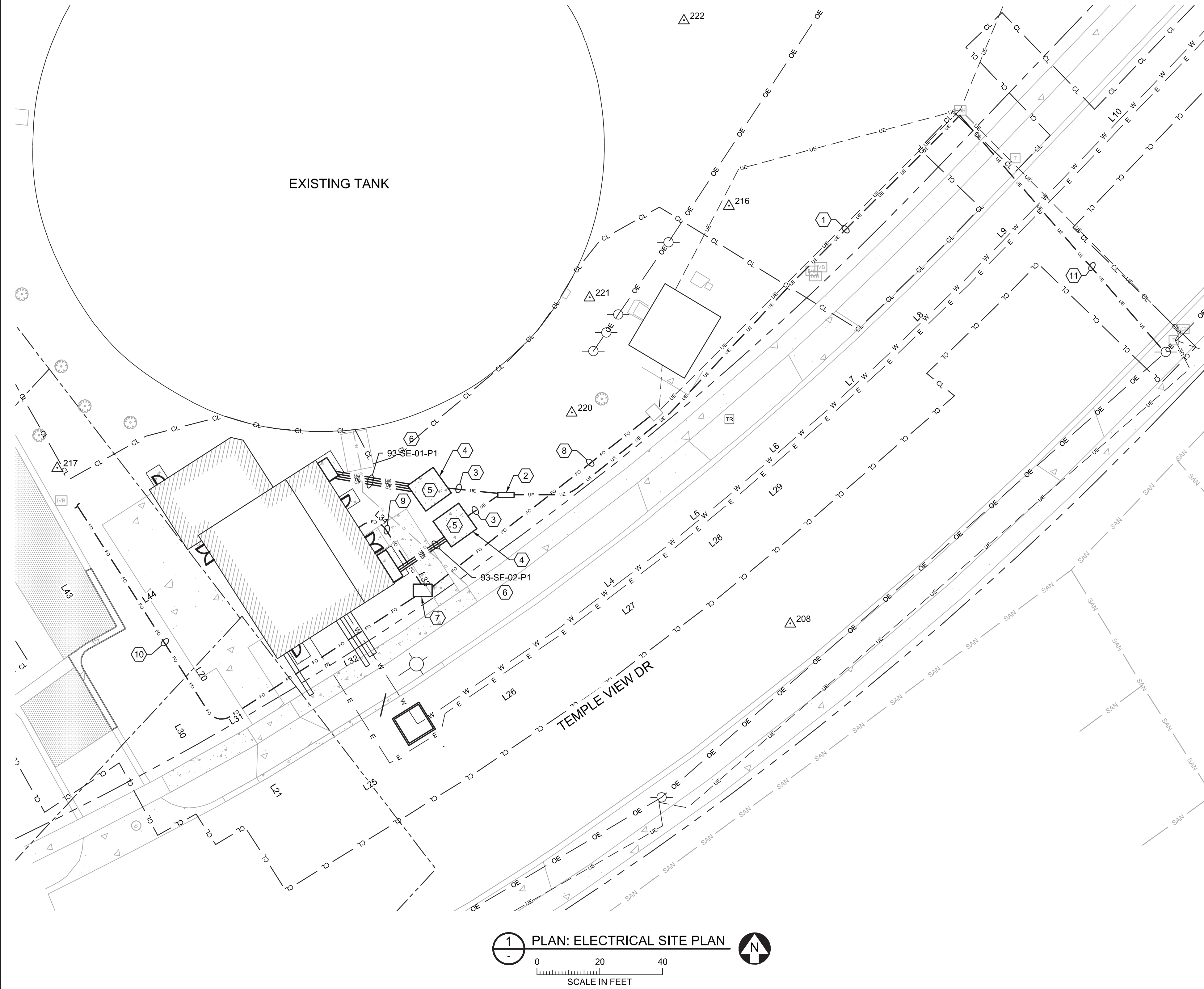


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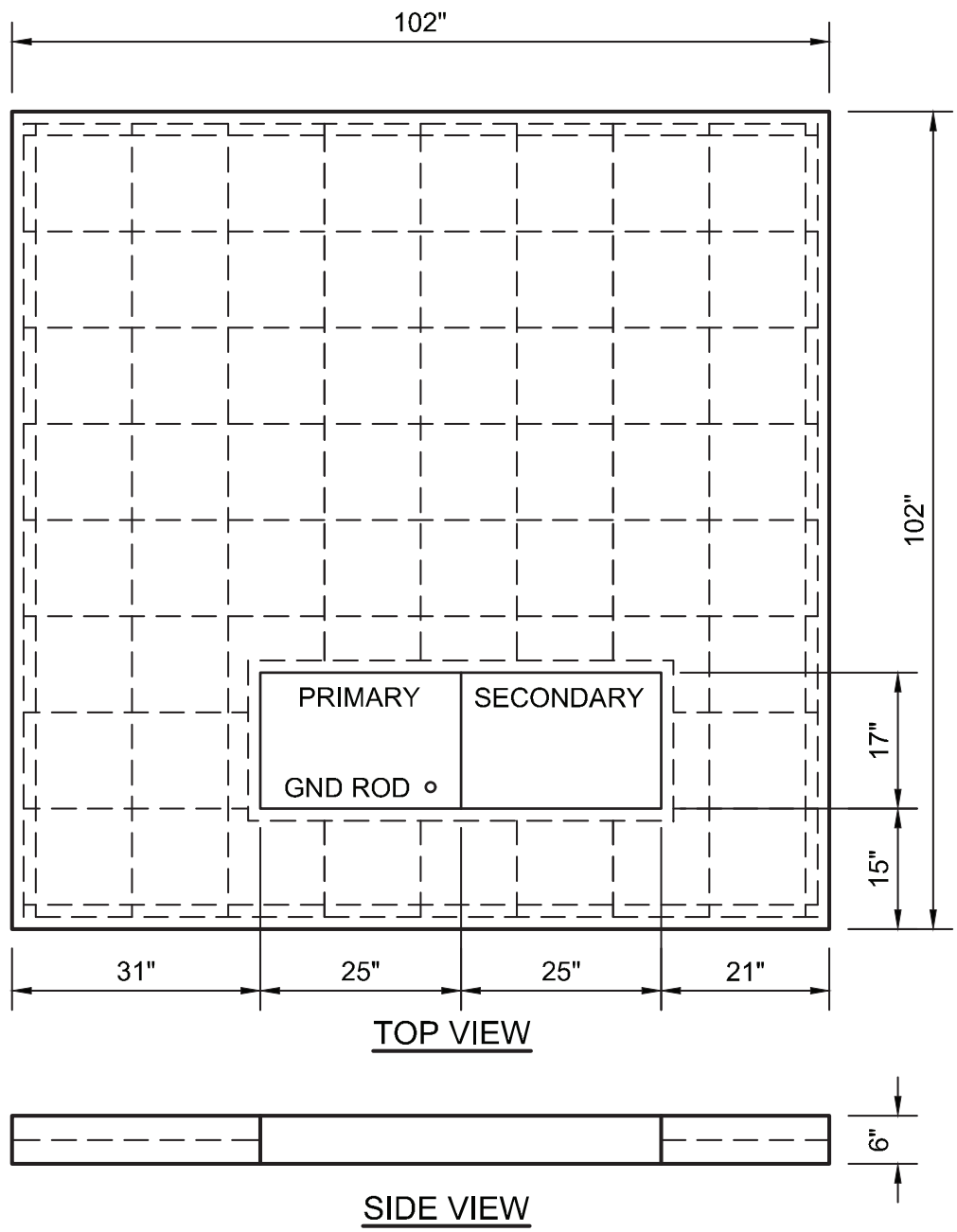


NUMBERED NOTES:

- 1 FURNISH AND INSTALL (1) 4" CONDUIT FROM EXISTING PROVO CITY POWER SECTIONALIZER TO NEW SECTIONALIZER (APPROX. 215'). COORDINATE EXACT ROUTE WITH PROVO CITY POWER AND VERIFY CONDUIT RUN LENGTH.
- 2 FURNISH AND INSTALL 3P UTILITY APPROVED SECTIONALIZER. SEE SHEET E-03 FOR STANDARD PROVO CITY POWER SECTIONALIZER DETAILS. COORDINATE EXACT LOCATION WITH PROVO CITY POWER.
- 3 FURNISH AND INSTALL 4" CONDUIT FROM SECTIONALIZER TO TRANSFORMER(S). VERIFY CONDUIT STUB UP LOCATIONS AT TRANSFORMER PADS AND SECTIONALIZER.
- 4 CONSTRUCT TRANSFORMER PAD(S). SEE DETAIL THIS SHEET.
- 5 TRANSFORMER(S) TO BE PROVIDED BY PROVO CITY POWER, COORDINATE EXACT SIZE AND LOCATION WITH PROVO CITY POWER. SEE SHEET E-03 FOR STANDARD PROVO CITY POWER TRANSFORMER AND SECTIONALIZER DETAILS.
- 6 FURNISH AND INSTALL BELOW GROUND CONDUIT FROM TRANSFORMERS TO SERVICE ENTRANCE PER NEC.
- 7 FURNISH AND INSTALL FIBER CONNECTION BOX. COORDINATE WITH PROVO CITY POWER AND SERVICE PROVIDER.
- 8 FURNISH AND INSTALL 2" CONDUIT FOR FIBER OPTIC CABLE FROM EXISTING TRANSFORMER TO NEW FIBER CONNECTION BOX. COORDINATE WITH PROVO CITY POWER AND SERVICE PROVIDER.
- 9 FURNISH AND INSTALL 2" CONDUIT FOR FIBER OPTIC CABLE FROM NETWORK CABINET IN ELECTRICAL ROOM TO FIBER CONNECTION BOX. COORDINATE WITH PROVO CITY POWER AND SERVICE PROVIDER.
- 10 FURNISH AND INSTALL 2" CONDUIT FOR FIBER OPTIC CABLE FROM FIBER CONNECTION BOX ON THE POWER POLE LOCATED ON THE WEST SIDE OF WATER TANK. APPROXIMATELY 300 FEET. COORDINATE EXACT ROUTING, LENGTH AND TERMINATION POINT WITH PROVO CITY AND SERVICE PROVIDER.
- 11 FURNISH AND INSTALL (1) 4" CONDUIT FROM POLE ACROSS THE STREET TO EXISTING SECTIONALIZER.

LEGEND

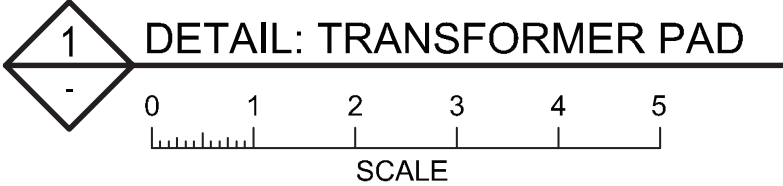
- PROPERTY BOUNDARY
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND ELECTRIC
- UNDERGROUND ELECTRIC
- UNDERGROUND FIBER OPTIC
- EXISTING BUILDING
- EXISTING BITUMINOUS PAVEMENT
- EXISTING CONCRETE PAVEMENT/SIDEWALK
- EXISTING GRAVEL PAVEMENT
- CONTROL POINT
- EXISTING POWER POLE
- EXISTING LIGHT POLE
- EXISTING ELECTRIC PEDESTAL
- EXISTING COMMUNICATIONS BOX
- EXISTING SIGN
- EXISTING BOLLARD
- PROPOSED BUILDING
- PROPOSED CONCRETE TRANSFORMER PAD



NOTE: 3 PHASE TRANSFORMER PAD SPECIFICATION AND REQUIREMENTS PER PROVO CITY POWER, PAGE 19, COMMERCIAL QUICK REFERENCE DATED NOVEMBER 2021.

TRANSFORMER PAD NOTES:

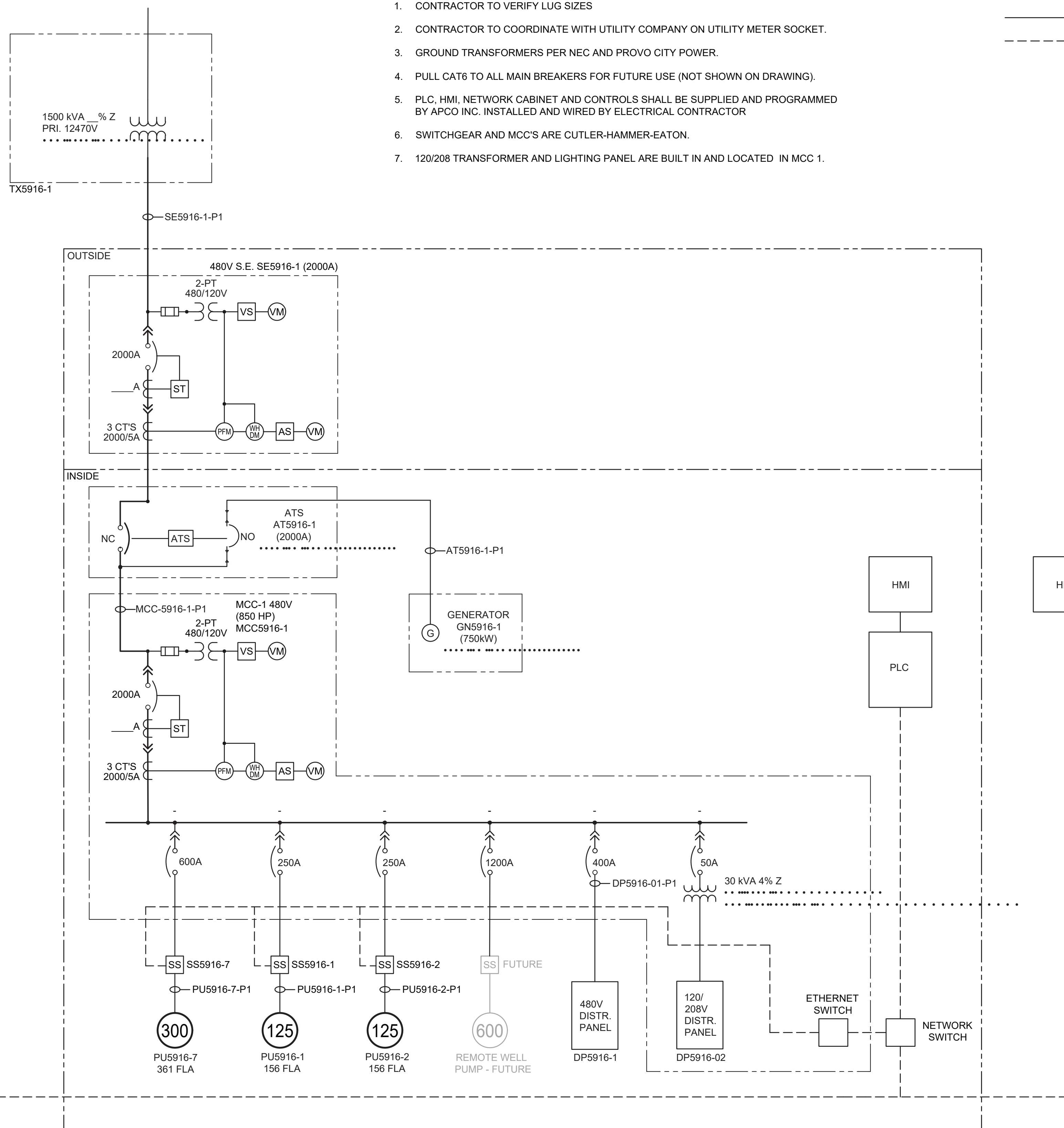
1. INSTALL #4 RE-BAR 12" OC ENTIRE PAD.
2. INSTALL 5/8" x 8' COPPER CLAD GROUND ROD WITHIN PRIMARY COMPARTMENT.
3. PROVO CITY POWER TO INSPECT PAD PRIOR TO POUR. CALL 801-852-6852.
4. 3' MINIMUM CLEARANCE FOR BOTH SIDES AND REAR OF PAD.



ISSUE FOR BID  
NOT FOR CONSTRUCTION

|  |  |  |  |  |        |  |  |  |  |                                                                                                                                                                                                                                                                                                                              |                   |          |                                                    |  |                                                                               |  |  |  |                    |  |                  |  |
|--|--|--|--|--|--------|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|----------------------------------------------------|--|-------------------------------------------------------------------------------|--|--|--|--------------------|--|------------------|--|
|  |  |  |  |  | CLIENT |  |  |  |  | <div><div></div><div><b>BARR</b></div><div>Corporate Headquarters:<br/>Minneapolis, Minnesota<br/>Ph: 1-800-632-2277</div></div> <div><div>Project Office:<br/>BARR ENGINEERING CO.<br/>170 S Main St<br/>Suite 500<br/>Salt Lake City, UT 84101<br/>Ph: 1-800-333-8400<br/>Fax: (801) 333-8401<br/>www.barr.com</div></div> | Scale<br>AS SHOWN |          | <div><div>provo</div><div>WELCOME HOME</div></div> |  | ROCK CANYON AQUIFER STORAGE<br>BOOSTER STATION & TRANSMISSION LINE, BID SCH 1 |  |  |  | BARR PROJECT No.   |  | 44251024.00      |  |
|  |  |  |  |  |        |  |  |  |  |                                                                                                                                                                                                                                                                                                                              |                   |          |                                                    |  |                                                                               |  |  |  |                    |  |                  |  |
|  |  |  |  |  |        |  |  |  |  |                                                                                                                                                                                                                                                                                                                              |                   |          |                                                    |  |                                                                               |  |  |  |                    |  |                  |  |
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|  |  |  |  |  |        |  |  |  |  | ELECTRICAL<br>SITE ELECTRICAL PLAN                                                                                                                                                                                                                                                                                           |                   |          |                                                    |  |                                                                               |  |  |  | CLIENT PROJECT No. |  | PROVOEN202320182 |  |
|  |  |  |  |  |        |  |  |  |  | DWG. No.                                                                                                                                                                                                                                                                                                                     |                   | REV. No. |                                                    |  |                                                                               |  |  |  |                    |  |                  |  |
|  |  |  |  |  |        |  |  |  |  | E-01                                                                                                                                                                                                                                                                                                                         |                   | A        |                                                    |  |                                                                               |  |  |  |                    |  |                  |  |





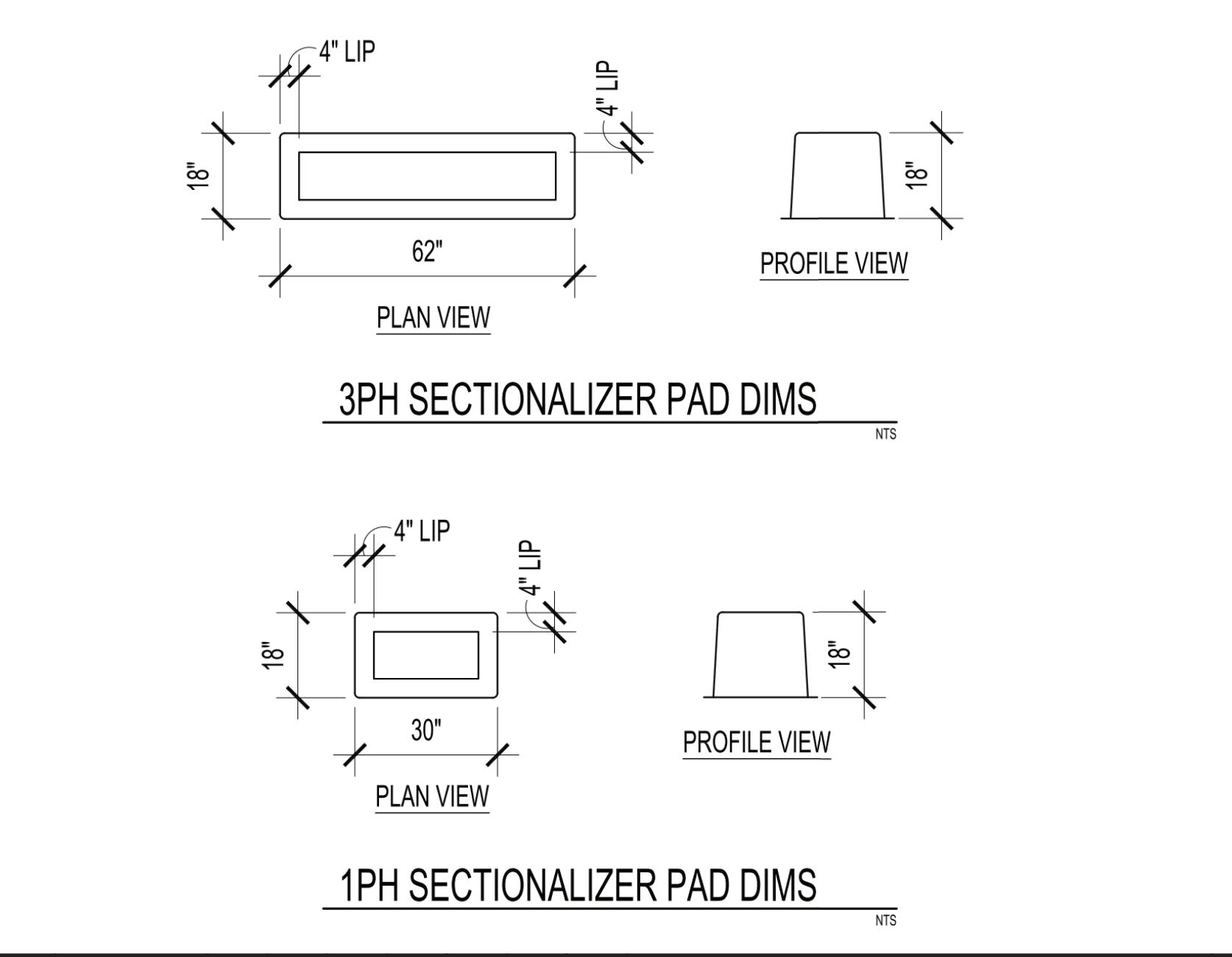
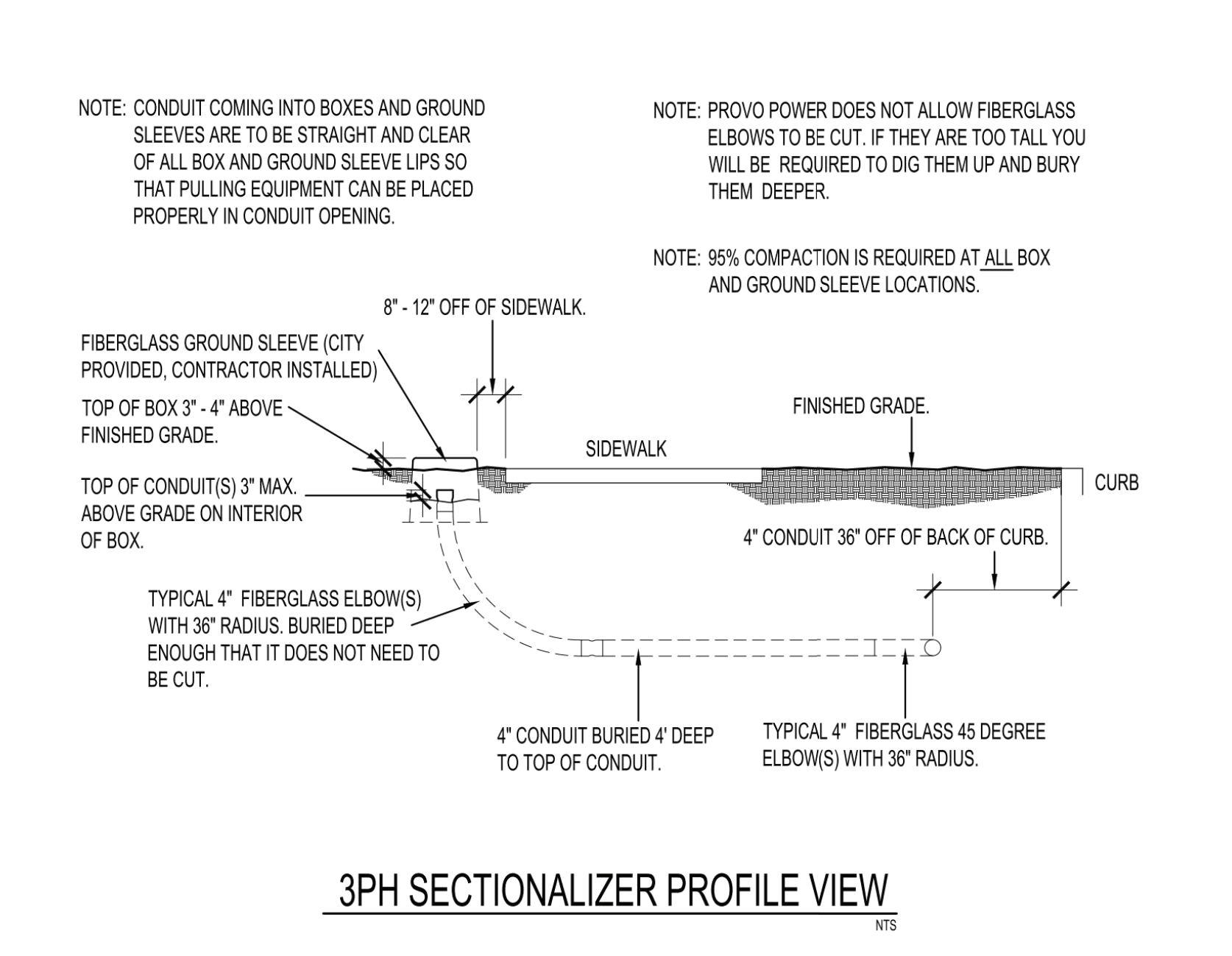
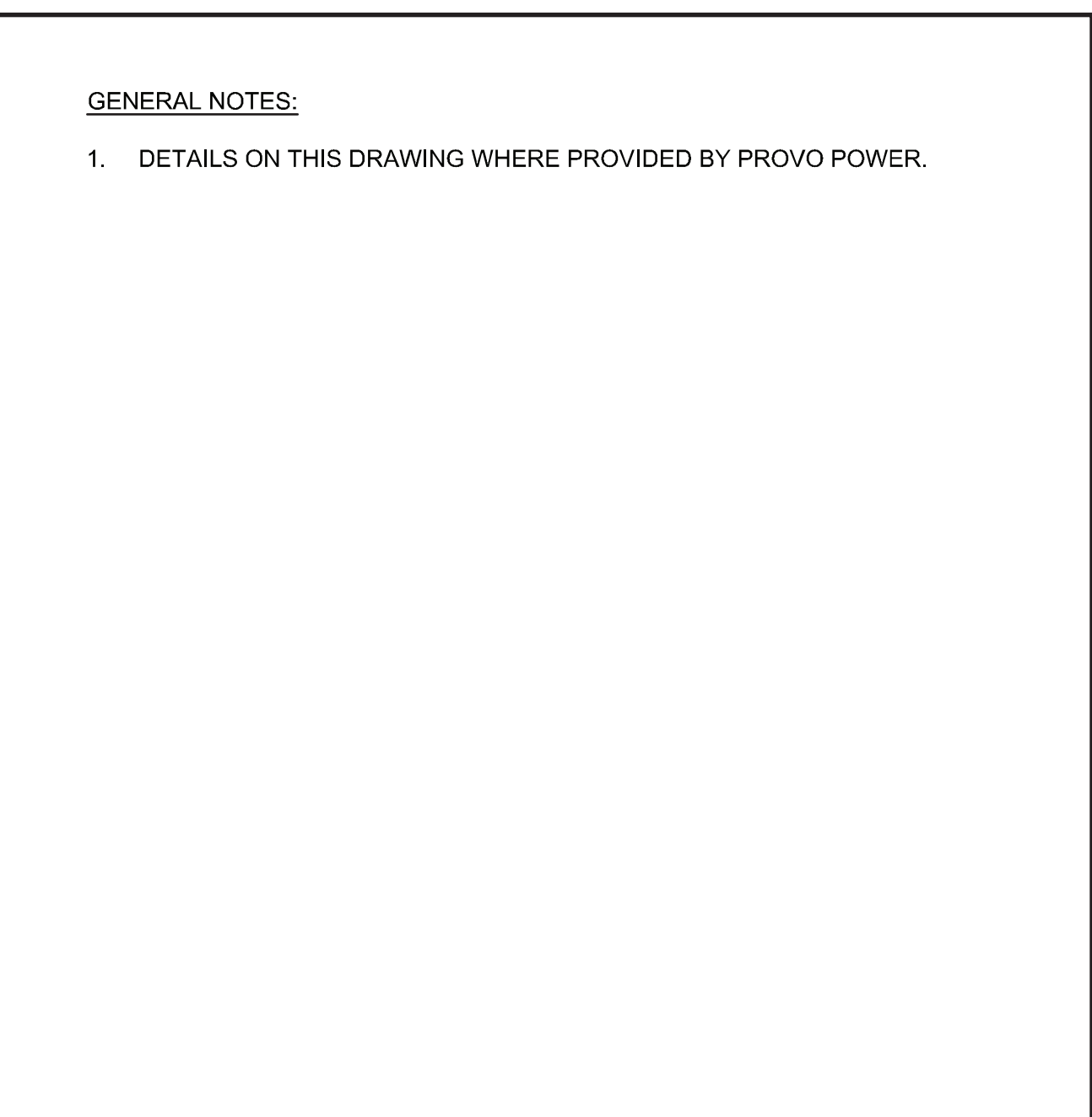
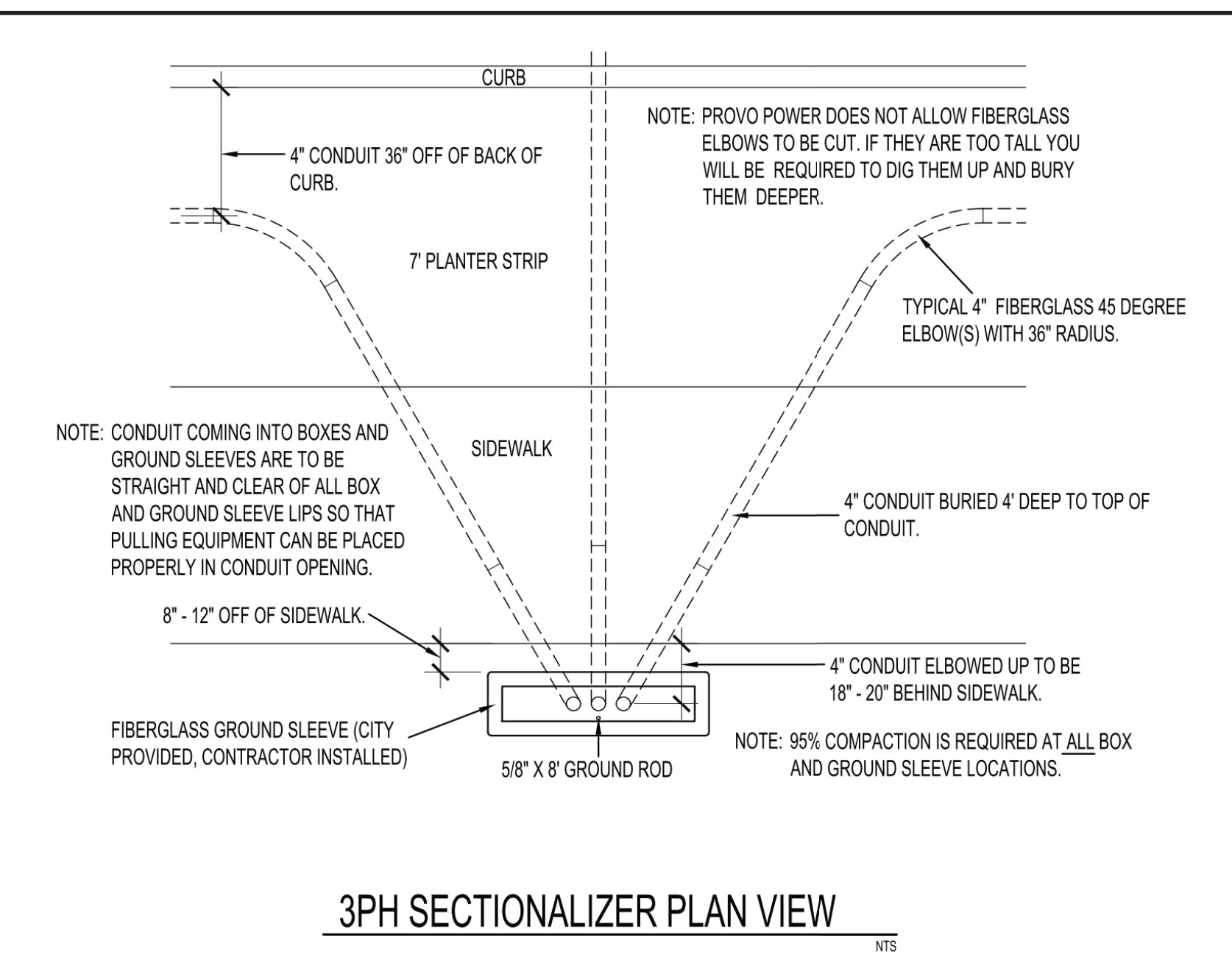
- LEGEND**
- POWER / CONTROL CABLES
- - - - - COMMUNICATION CABLES

PU5916-1, PU5916-2, PU5916-3, PU5916-4, PU5916-5, PU5916-6, PU5916-7, PU5916-8  
WATER PUMPS  
HP: 600 HP 3 EACH  
HP: 300 HP 1 EACH  
HP: 125 HP 3 EACH  
480VAC ON SS CONTROL  
SUMP PUMP 120 V  
LOCAL PLC AND HMI  
REMOTE MONITORING AND CONTROL AT A CENTRAL LOCATION

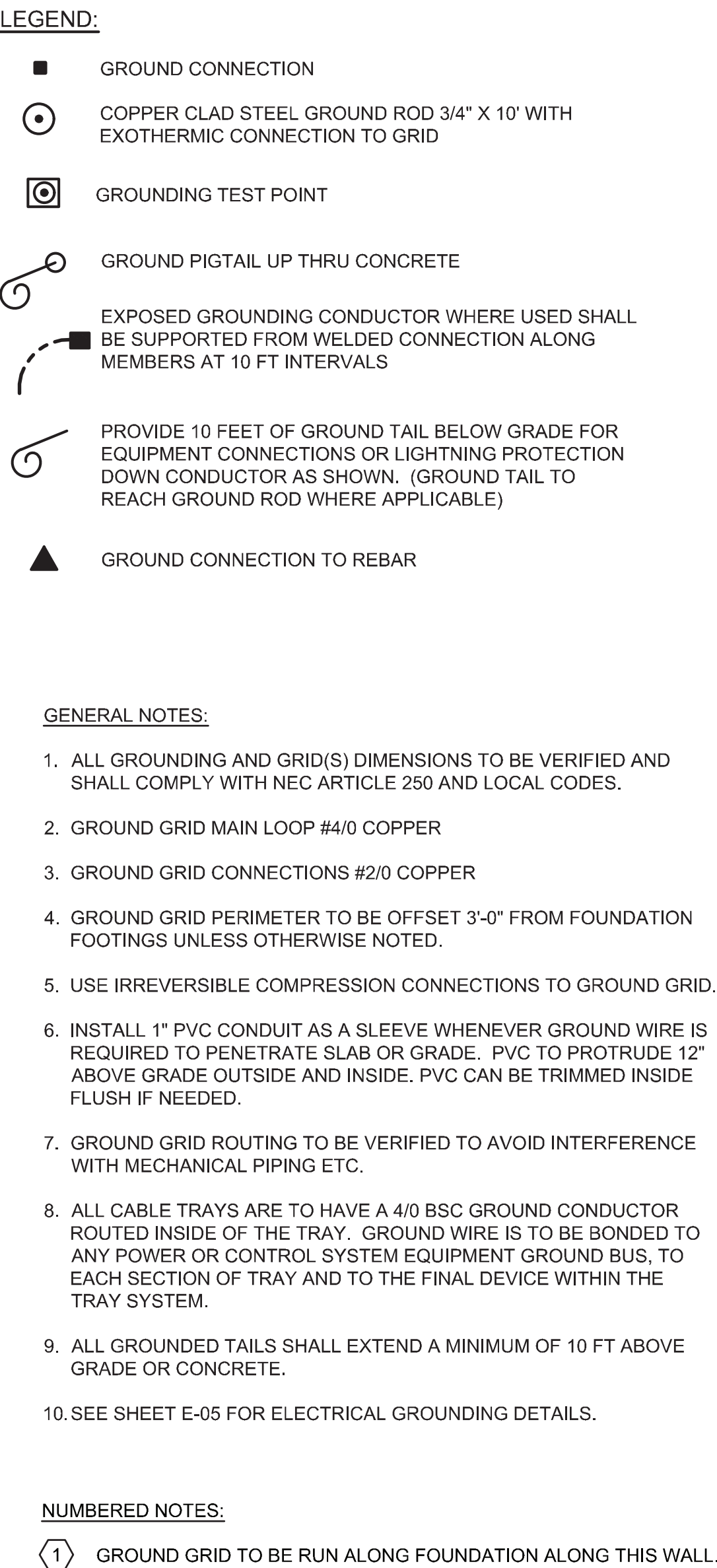
ISSUE FOR BID  
NOT FOR CONSTRUCTION

BAR M:\AutoCAD 2011\AutoCAD 2011 Support\enu\Template\Barr\_2011\_Template.dwt Plot at 1 10/05/2010 14:03:50  
CADD USER: Terri J. Toms FILE: M:\DESIGN\4425\024\_001\4425102400\_E-02.DWG PLOT SCALE: 1:2,0001 PLOT DATE: 5/10/2023 12:25 PM









ISSUE FOR BID  
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CADD USER: Terri J. Toms FILE: M:\DESIGN\44251024\_00\44251024.dwg PLOT SCALE: 1:2 PLOT DATE: 4/21/2023 6:12 PM  
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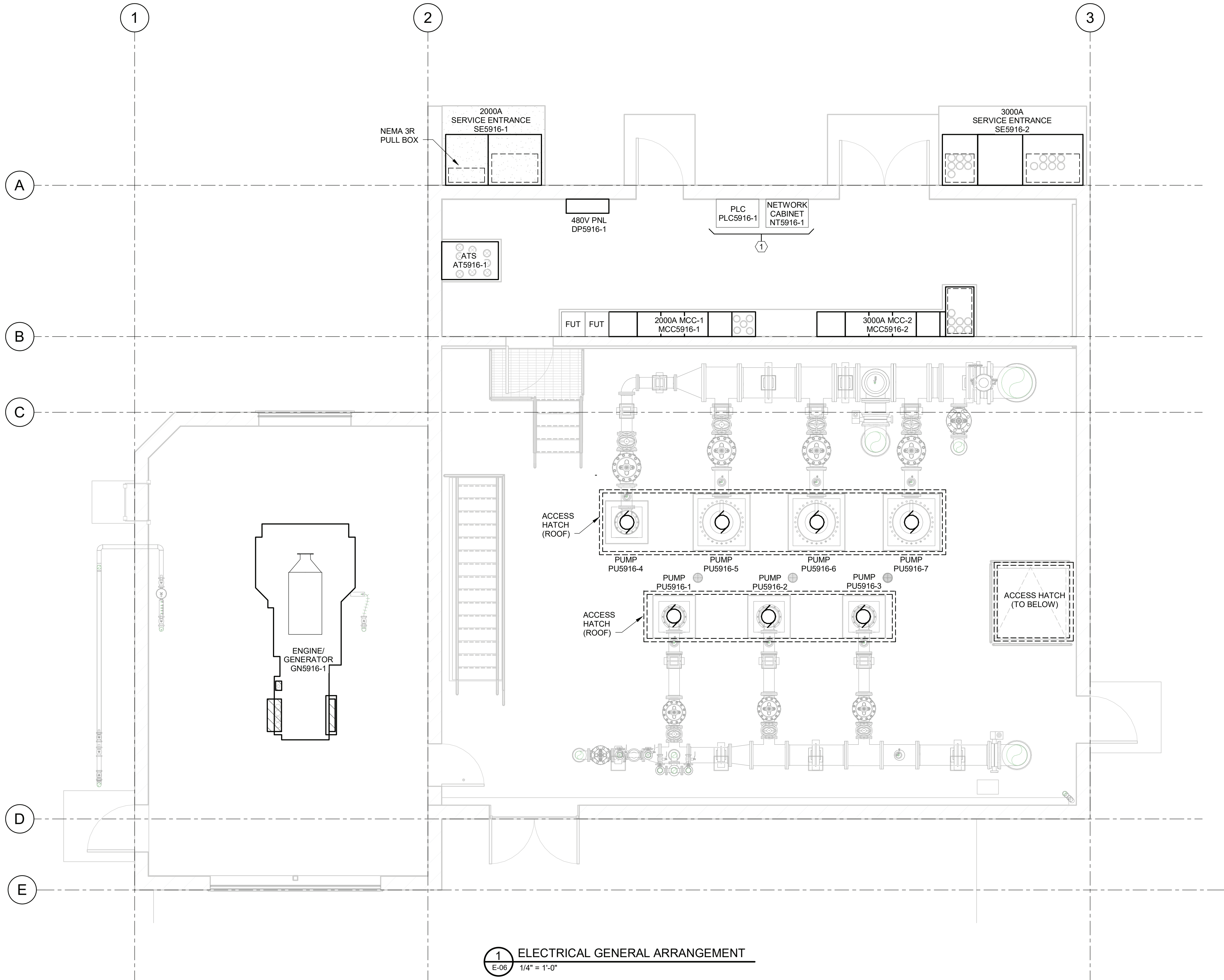
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4/21/2023 6:36:35 PM



1 ELECTRICAL GENERAL ARRANGEMENT  
E-06 1/4" = 1'-0"

GENERAL NOTES:

1. ALL OUTDOOR PANELS TO BE NEMA 3R.
2. THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES, REGULATIONS AND CODES. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) AS WELL AS ANY OTHER APPLICABLE CODES OR STANDARDS.
3. SERVICE ENTRANCE PULL BOX AND SERVICE ENTRANCE PANELS MUST BE COMPLETELY SEALED TO WATER PENETRATION ON ALL CONNECTIONS, USING MYERS HUBS, BUSHINGS OR OTHER COMPARABLE METHODS.

NUMBERED NOTES:

- ① PLC AND NETWORK CABINET WILL BE SUPPLIED BY APCO. TO BE INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SHOWN FOR REFERENCE ONLY.

ISSUED FOR BID  
NOT FOR CONSTRUCTION

| NO. | BY | CHK | DATE | REVISION DESCRIPTION |
|-----|----|-----|------|----------------------|
|     |    |     |      |                      |
|     |    |     |      |                      |
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| CLIENT          |         |  |  |  |  |  |  |  |  |
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| PERMIT          |         |  |  |  |  |  |  |  |  |
| BID             | 4/28/23 |  |  |  |  |  |  |  |  |
| CONSTRUCTION    |         |  |  |  |  |  |  |  |  |
| RECORD          |         |  |  |  |  |  |  |  |  |
| RELEASED TO/FOR |         |  |  |  |  |  |  |  |  |
| DATE RELEASED   |         |  |  |  |  |  |  |  |  |

**BARR**  
Corporate Headquarters:  
Minneapolis, Minnesota  
Ph: 1-800-632-2277

Project Office:  
BARR ENGINEERING CO.  
170 SOUTH MAIN STREET  
SUITE 500  
SALT LAKE CITY, UT 84101  
Ph: 1-800-632-2277  
Fax: (801) 333-8401  
www.barr.com

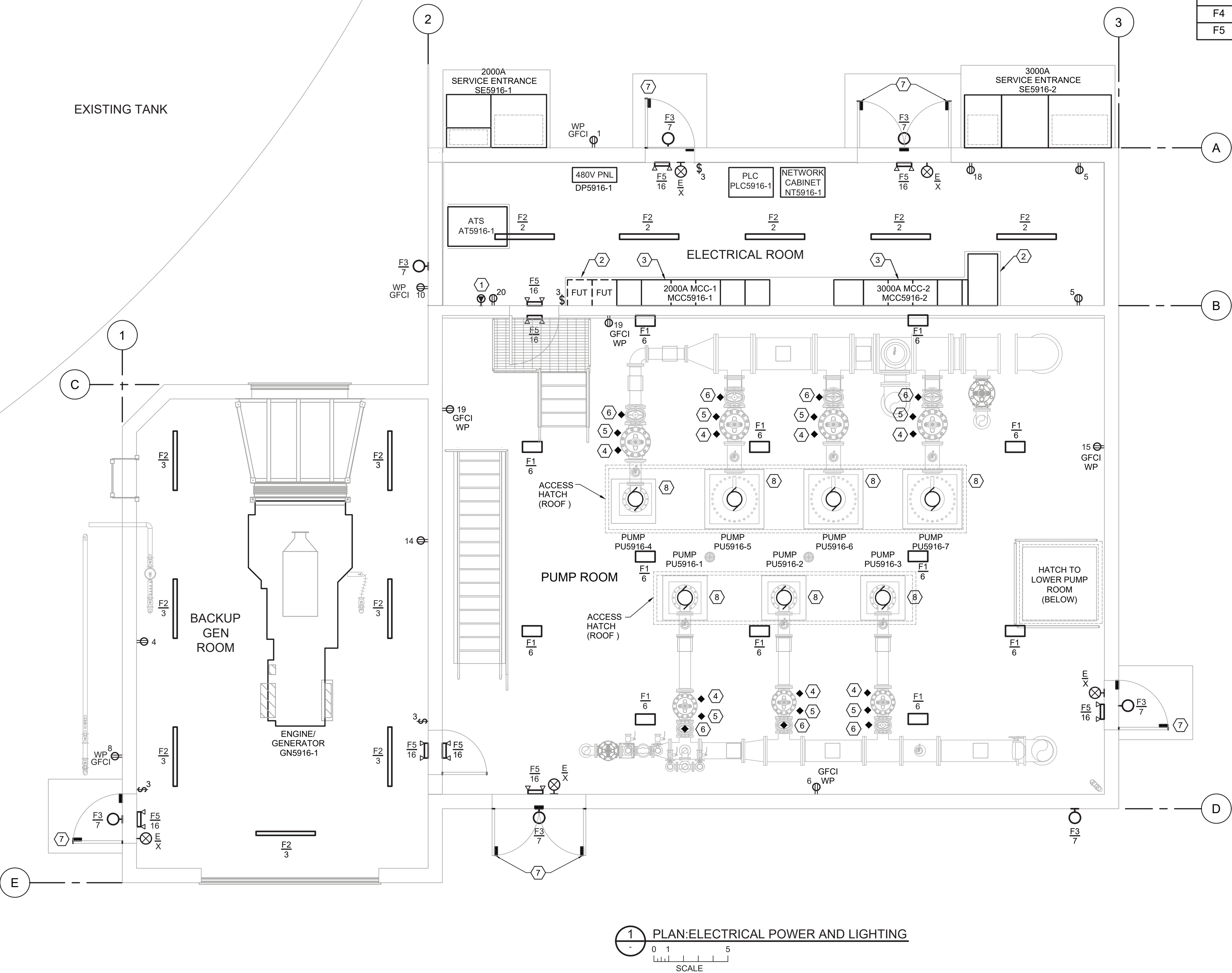
| Scale    | AS SHOWN   |
|----------|------------|
| Date     | 11/17/2021 |
| Drawn    | TJT2       |
| Checked  | RSH        |
| Designed | RSH        |
| Approved | JSV        |



|                                                                               |              |                                        |
|-------------------------------------------------------------------------------|--------------|----------------------------------------|
| ROCK CANYON AQUIFER STORAGE<br>BOOSTER STATION & TRANSMISSION LINE, BID SCH 1 |              | BARR PROJECT NO.<br>44251024.00        |
| ELECTRICAL<br>ELECTRICAL GENERAL ARRANGEMENT                                  |              | CLIENT PROJECT NO.<br>PROVOEN202320182 |
| DWG NO.<br>E-06                                                               | REV NO.<br>A |                                        |



CADD USER: TERRILLJ.TOMIS FILE: M:\DESIGN\44251024\00\4425102400\_E-07.DWG PLOT SCALE: 1:2.0002 PLOT DATE: 5/10/2023 12:34 PM



| BILL OF MATERIAL |     |                                    |              |                |             |
|------------------|-----|------------------------------------|--------------|----------------|-------------|
| ITEM             | QTY | DESCRIPTION                        | MANUFACTURER | MODEL NO.      | SUPPLIED BY |
| F1               | 23  | PENDANT MOUNTED LED HIGH / LOW BAY | LITETRONICS  | LHB112UR250DLP |             |
| F2               | 12  | LED STRIP FIXTURE                  | LITETRONICS  | SFS45050       |             |
| F3               | 11  | OUTDOOR WALL PACKS                 | EX-LITE      | WPC-60W-50K-EM |             |
| F4               | 5   | EXITS                              | NICOR        | EXL1           |             |
| F5               | 10  | EMERGENCY EXIT BUGEYES             | NICOR        | EML1           |             |

LETTER DESIGNATES  
FIXTURE TYPE.  
SEE FIXTURE  
SCHEDULE

NUMBER DESIGNATES  
BRANCH CIRCUIT

LEGEND:

8

3

STANDARD LED LIGHT W/BATTERY BACKUP FOR EMERGENCY

STANDARD LED LIGHT

7

7

BUGEYE EMERGENCY LIGHT

8

8

WELDING RECEPTACLE

8

8

EXIT SIGN

8

8

ELECTRIC MOTOR

8

8

ELECTRICAL OUTLET (DUPLEX GFCI) (WP WHERE LOCATED OUTSIDE)

8

8

EXTERIOR LED WALL PACK FIXTURE

8

8

PENDANT HIGH BAY LOWBAY

8

8

SERVICE DISCONNECT

8

8

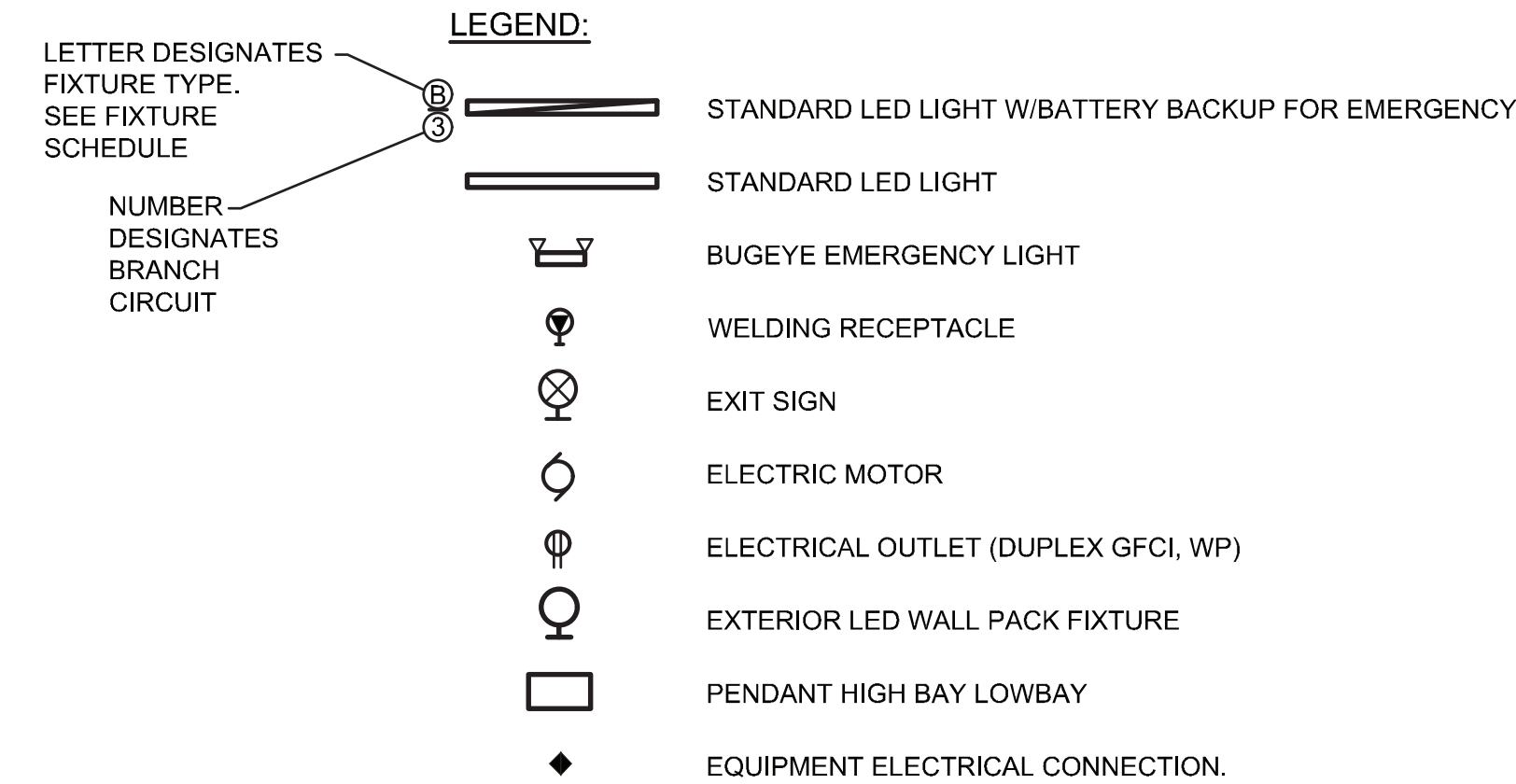
EQUIPMENT ELECTRICAL CONNECTION

- GENERAL NOTES:
- FURNISH AND INSTALL ALL ELECTRICAL EQUIPMENT AS SHOWN.
  - COORDINATE EXACT LOCATION OF ELECTRICAL EQUIPMENT WITH OWNER/ENGINEER.
  - ALL LIGHTING AND GENERAL POWER CIRCUITS SHOWN ON THIS PLAN ARE FED FROM PANEL LP5916-1 UNLESS OTHERWISE NOTED.
  - CABLE TRAYS WILL BE UTILIZED INSIDE PUMP ROOM, ELECTRICAL ROOM AND GENERATOR ROOM. SEE SHEET E-10 FOR CABLE TRAY LOCATIONS.
  - ALL CABLE IN THE SAME TRAY MUST HAVE THE SAME VOLTAGE RATING.
  - CABLES FOR 480V AND 120V CAN BE RUN IN THE SAME TRAY IF RATED FOR 600V AND SEPARATED BY A DIVIDER
  - 120 V SHALL BE FIELD ROUTED TO DEVICES IN CONDUIT.
  - PIPE SUPPORTS CAN BE USED FOR CONDUIT SUPPORTS.
  - INSTRUMENTATION CABLES SHALL BE INSTALLED IN CONDUIT AND ROUTING WILL BE FIELD FIT.
  - ALL ELECTRICAL ENCLOSURE PENETRATIONS MUST BE COMPLETELY SEALED TO PREVENT WATER FROM ENTERING ENCLOSURES, (INTERIOR AND EXTERIOR ENCLOSURES).
  - PLC AND NETWORK CABINET SHALL BE SUPPLIED BY APCO INC, TO BE INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
- NUMBERED NOTES:
- WELDING RECEPTACLE IS FED FROM PANEL DP5916-1, CIRCUITS 8,10,12.
  - HOUSEKEEPING PADS AND LOCATIONS WILL BE VERIFIED BY CONTRACTOR.
  - MCC LOCATIONS, SIZES AND LAYOUTS WILL BE VERIFIED BY CONTRACTOR, INCLUDING CONDUIT PENETRATIONS IN SLABS.
  - SOLENOID VALVE. MAKE ELECTRICAL CONNECTIONS.
  - LIMIT SWITCH, MAKE ELECTRICAL CONNECTIONS.
  - FLOW METER, MAKE ELECTRICAL CONNECTIONS.
  - FURNISH AND INSTALL DOOR SWITCHES ON ALL EXTERIOR DOORS.
  - FURNISH AND INSTALL UNISTRUT STAND FOR PUMP CONTROL PANEL.

ISSUE FOR BID  
NOT FOR CONSTRUCTION

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|     |  |  |  |  |  |  |  |  |  | CLIENT          |  |  |  |  |  |  |  |  |  | Project Office:          |  |  |  |  |  |  |  |  |  | Scale    |  |  |  |  |  |  |  |  |  | AS SHOWN   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ROCK CANYON AQUIFER STORAGE<br>BOOSTER STATION & TRANSMISSION LINE, BID SCH 1 |  |  |  |  |  |  |  |  |  | BARR PROJECT No.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |  |  | PERMIT          |  |  |  |  |  |  |  |  |  | BARR ENGINEERING CO.     |  |  |  |  |  |  |  |  |  | Date     |  |  |  |  |  |  |  |  |  | 12/22/2021 |  |  |  |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |                                                                               |  |  |  |  |  |  |  |  |  | 44251024.00        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |  |  | BID             |  |  |  |  |  |  |  |  |  | 170 SOUTH MAIN STREET    |  |  |  |  |  |  |  |  |  | Drawn    |  |  |  |  |  |  |  |  |  | TJT2       |  |  |  |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |                                                                               |  |  |  |  |  |  |  |  |  | CLIENT PROJECT No. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |  |  | CONSTRUCTION    |  |  |  |  |  |  |  |  |  | SUITE 500                |  |  |  |  |  |  |  |  |  | Checked  |  |  |  |  |  |  |  |  |  | RSH        |  |  |  |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |                                                                               |  |  |  |  |  |  |  |  |  | PROVOEN202320182   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |  |  | RECORD          |  |  |  |  |  |  |  |  |  | SALT LAKE CITY, UT 84101 |  |  |  |  |  |  |  |  |  | Designed |  |  |  |  |  |  |  |  |  | RSH        |  |  |  |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |                                                                               |  |  |  |  |  |  |  |  |  | DWG. No.           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |  |  | RELEASED TO/FOR |  |  |  |  |  |  |  |  |  | Corporate Headquarters:  |  |  |  |  |  |  |  |  |  | Approved |  |  |  |  |  |  |  |  |  | JSV        |  |  |  |  |  |  |  |  |  | REV. No.                                                                              |  |  |  |  |  |  |  |  |  |                                                                               |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |  |  | A B C D 0 1 2   |  |  |  |  |  |  |  |  |  | Minneapolis, Minnesota   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  | E-07       |  |  |  |  |  |  |  |  |  | A                                                                                     |  |  |  |  |  |  |  |  |  |                                                                               |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |  |  | DATE RELEASED   |  |  |  |  |  |  |  |  |  | Ph: 1-800-632-2277       |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |                                                                               |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  | Fax: (952) 832-2801      |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |                                                                               |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |  |  |                 |  |  |  |  |  |  |  |  |  | www.barr.com             |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |                                                                               |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NO. |  |  |  |  |  |  |  |  |  | BY              |  |  |  |  |  |  |  |  |  | CHK                      |  |  |  |  |  |  |  |  |  | APP      |  |  |  |  |  |  |  |  |  | DATE       |  |  |  |  |  |  |  |  |  | REVISION DESCRIPTION                                                                  |  |  |  |  |  |  |  |  |  |                                                                               |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |





- GENERAL NOTES:
1. ALL LIGHTING AND GENERAL POWER CIRCUITS SHOWN ON THIS PLAN ARE FED FROM PANEL LP5916-1 UNLESS OTHERWISE NOTED.
  2. ALL CONDUIT TO BE GALVANIZED RMC.
  3. CONDUIT ROUTING WILL BE FIELD FIT.

- NUMBERED NOTES:**
- ① WELDING RECEPTACLE IS FED FROM DP5916-1, CIRCUITS 14,16,18.
  - ② USE 120V WP GFCI FOR SUMP PUMP DISCONNECT.
  - ③ FLOOD SENSOR/LEVEL SWITCH. INSTALL ONE INCH ABOVE FLOOR AND MAKE ELECTRICAL CONNECTIONS. WIRE TO PLC CABINET IN ELECTRICAL ROOM.

ISSUE FOR BID  
NOT FOR CONSTRUCTION

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|     |  |  |  | CLIENT          |  |  |  |               |  |  |  |          |  |            |  <div>Project Office:<br/>BARR ENGINEERING CO.<br/>170 SOUTH MAIN STREET<br/>SUITE 500<br/>SALT LAKE CITY, UT 84101</div> <div>Corporate Headquarters:<br/>Minneapolis, Minnesota<br/>Ph: 1-800-632-2277<br/>Fax: (801) 333-6401<br/>www.barr.com</div> | Scale                                  |  | AS SHOWN |  |  <div>ROCK CANYON AQUIFER STORAGE<br/>BOOSTER STATION &amp; TRANSMISSION LINE, BID SCH 1</div> <div>ELECTRICAL<br/>ELECTRICAL ROOF PLAN</div> |  |  |  | BARR PROJECT NO.<br>44251024.00 |  |  |  |
|     |  |  |  | PERMIT          |  |  |  |               |  |  |  | Date     |  | 11/17/2021 |                                                                                                                                                                                                                                                                                                                                              | CLIENT PROJECT NO.<br>PROVOEN202320182 |  |          |  |                                                                                                                                                                                                                                    |  |  |  |                                 |  |  |  |
|     |  |  |  | BID             |  |  |  | 04/28/23      |  |  |  | Drawn    |  | TJT2       |                                                                                                                                                                                                                                                                                                                                              | DWG NO.<br>E-09                        |  |          |  |                                                                                                                                                                                                                                    |  |  |  | REV NO.<br>A                    |  |  |  |
|     |  |  |  | CONSTRUCTION    |  |  |  |               |  |  |  | Checked  |  | RSH        |                                                                                                                                                                                                                                                                                                                                              |                                        |  |          |  |                                                                                                                                                                                                                                    |  |  |  |                                 |  |  |  |
|     |  |  |  | RECORD          |  |  |  |               |  |  |  | Designed |  | RSH        |                                                                                                                                                                                                                                                                                                                                              |                                        |  |          |  |                                                                                                                                                                                                                                    |  |  |  |                                 |  |  |  |
|     |  |  |  | RELEASED TO/FOR |  |  |  | A B C D E 0 1 |  |  |  | Approved |  | JSV        |                                                                                                                                                                                                                                                                                                                                              |                                        |  |          |  |                                                                                                                                                                                                                                    |  |  |  |                                 |  |  |  |
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| NO. |  |  |  | BY              |  |  |  | CHK           |  |  |  | DATE     |  |            |                                                                                                                                                                                                                                                                                                                                              | REVISION DESCRIPTION                   |  |          |  |                                                                                                                                                                                                                                    |  |  |  |                                 |  |  |  |

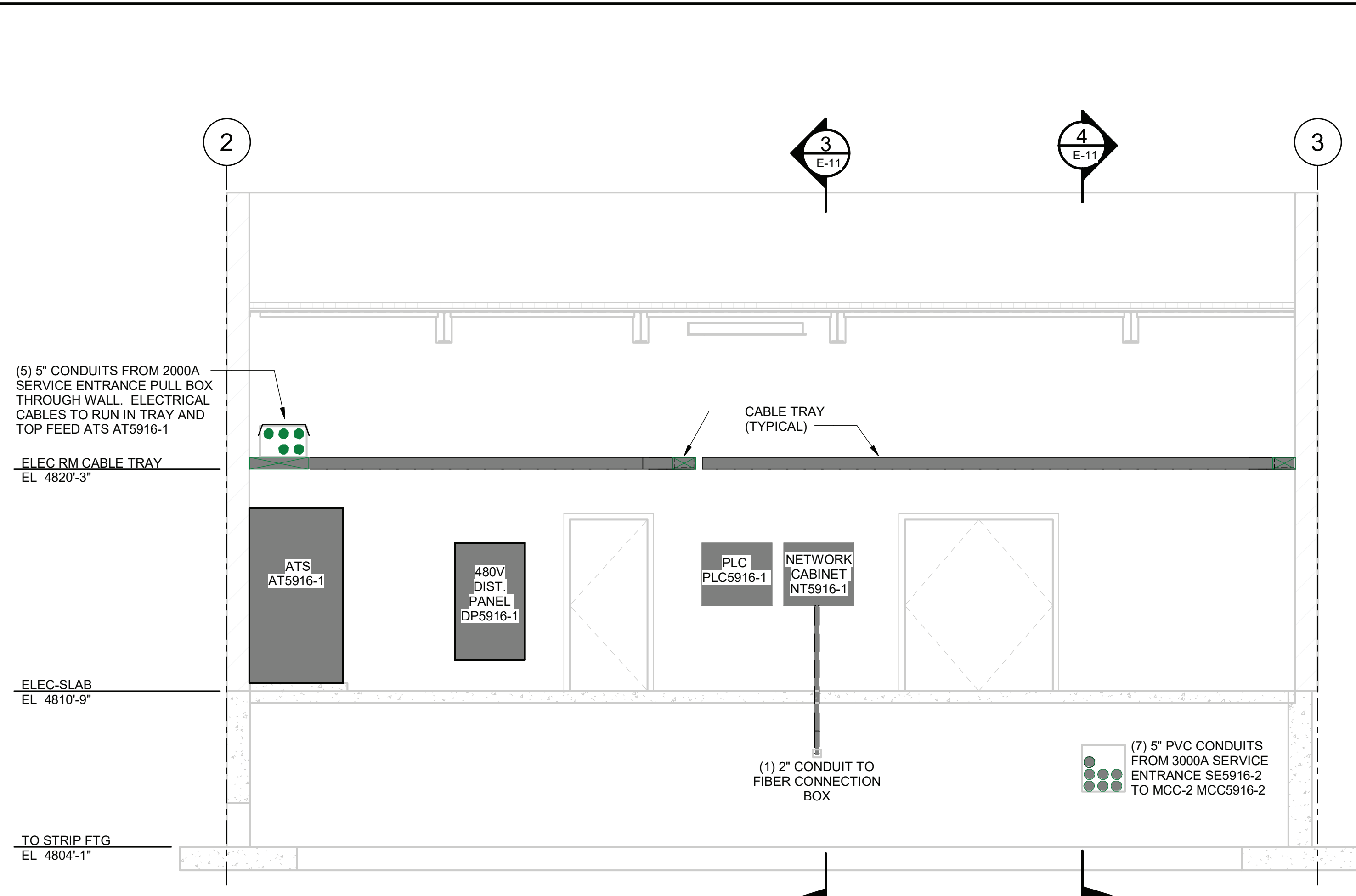




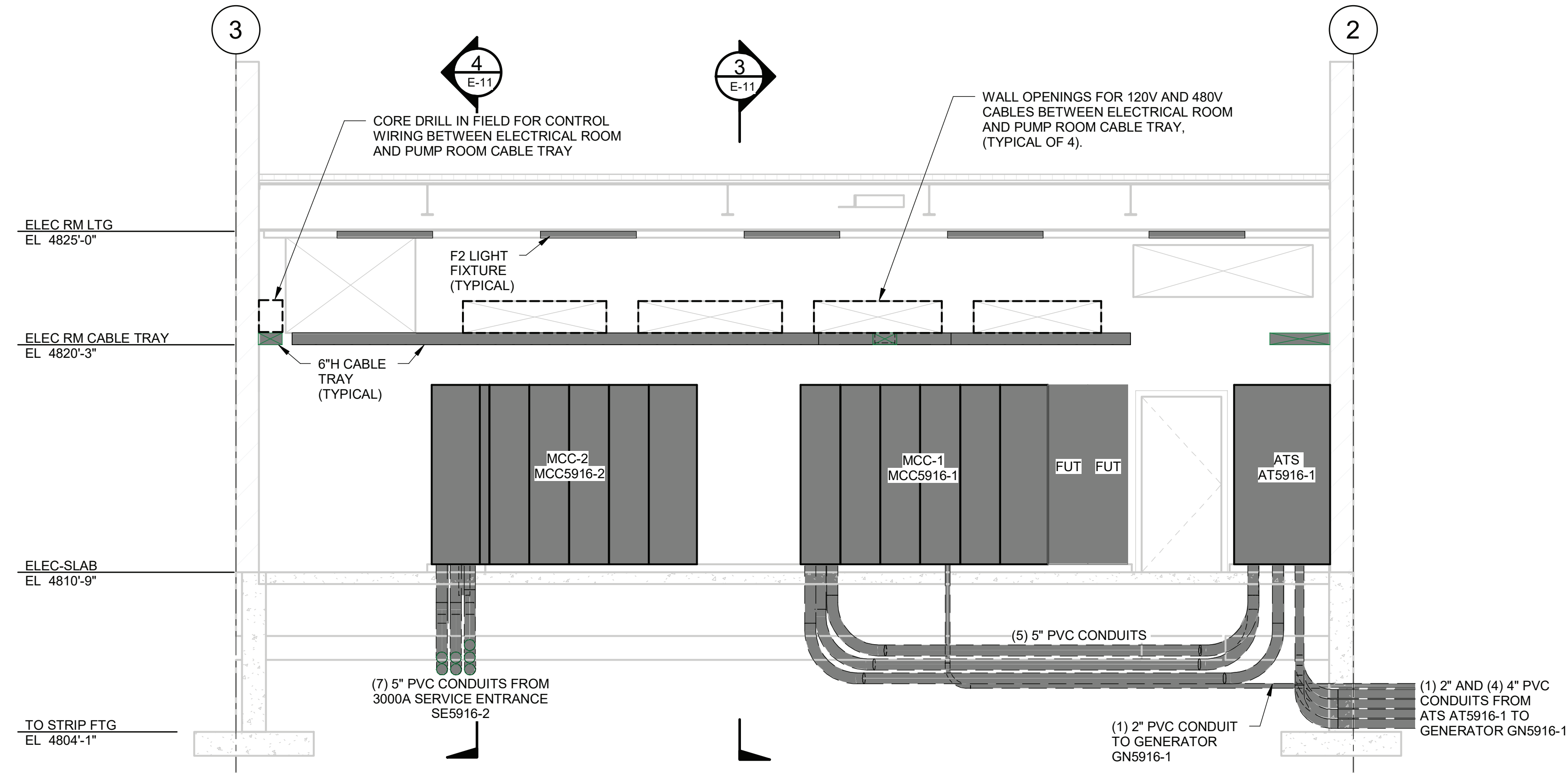


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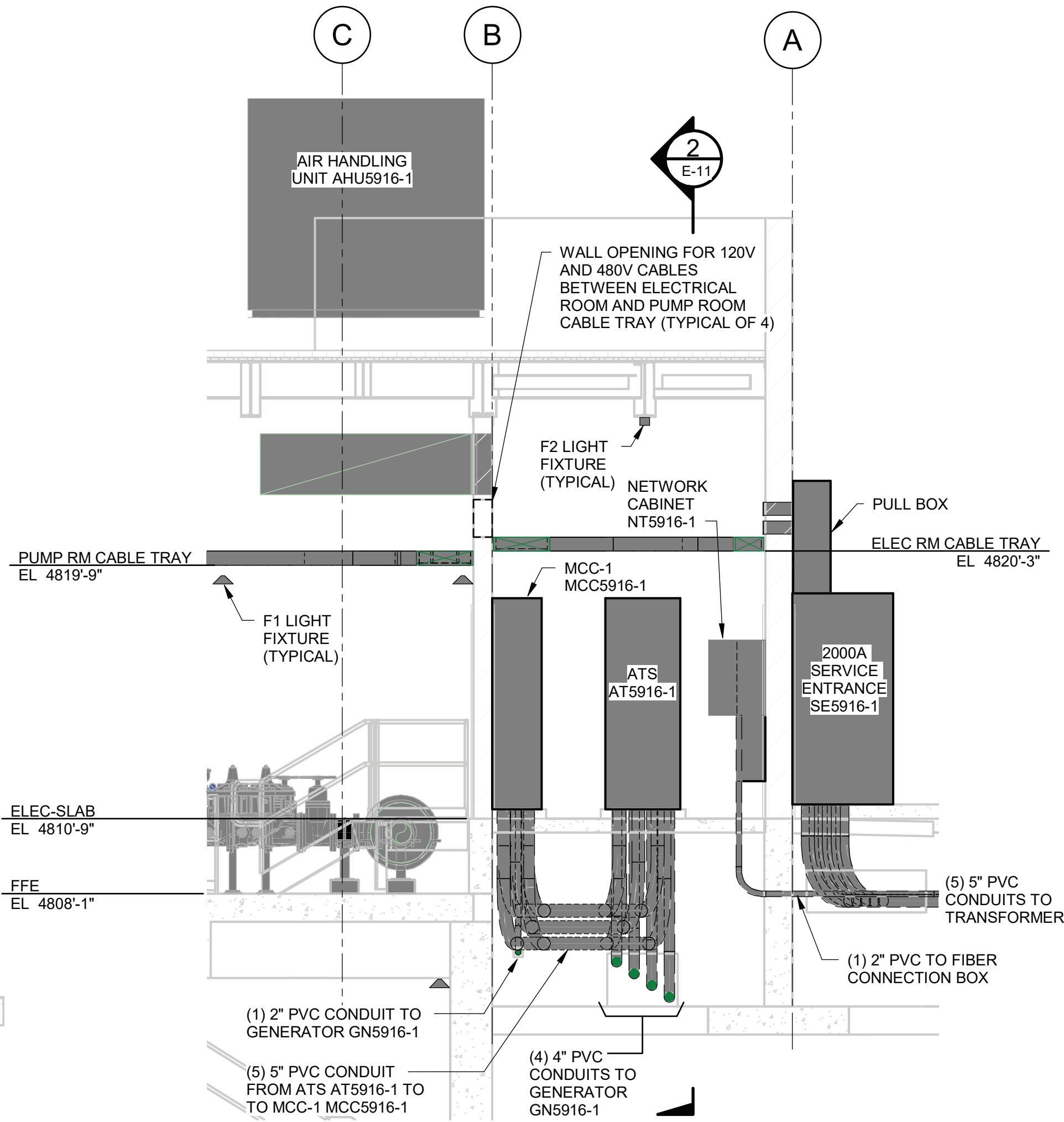
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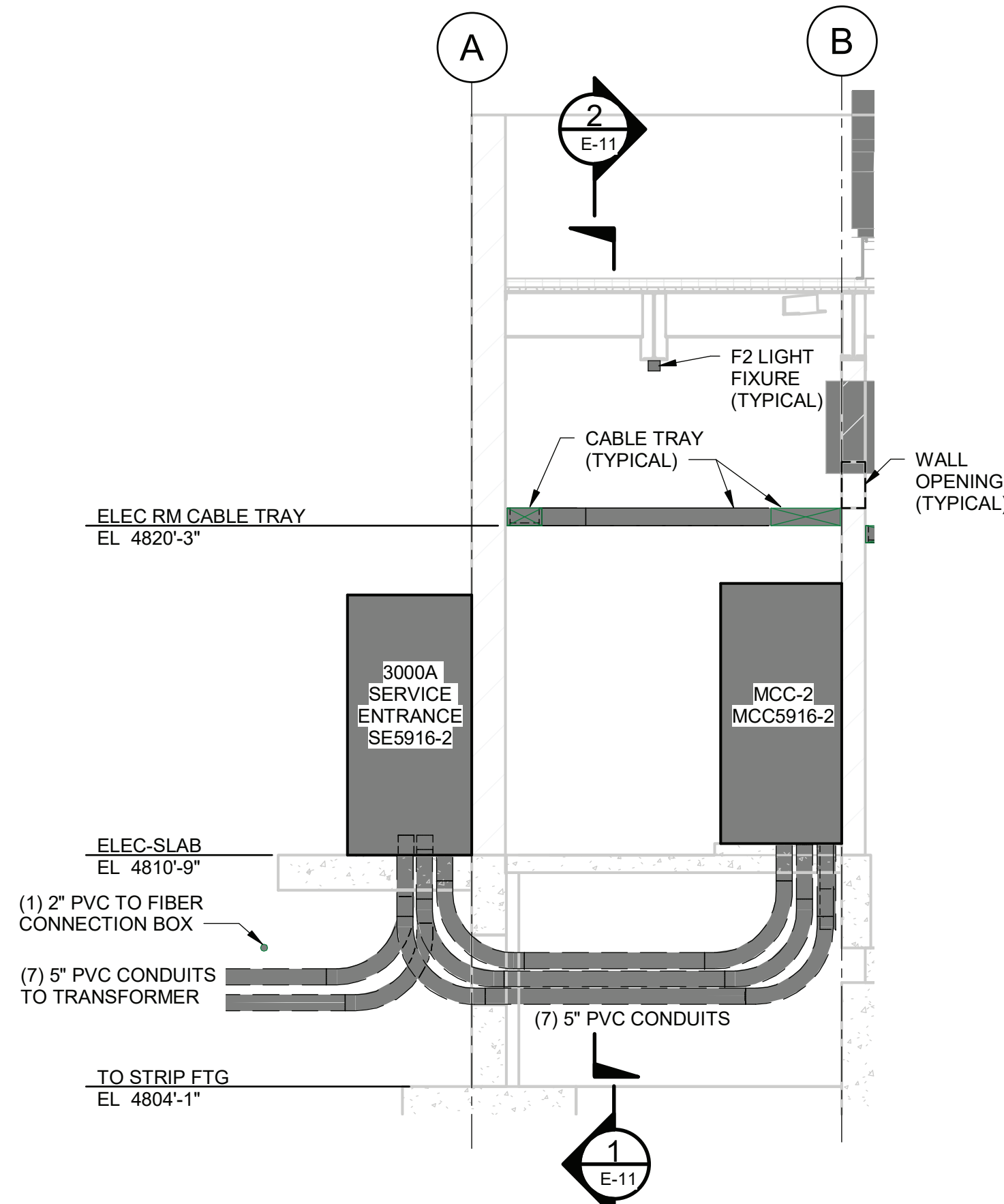
1 ELECTRICAL ROOM - NORTH WALL  
E-11 1/4" = 1'-0"



2 ELECTRICAL ROOM - SOUTH WALL  
E-11 1/4" = 1'-0"



3 ELECTRICAL ROOM - WEST WALL  
E-11 1/4" = 1'-0"



4 ELECTRICAL ROOM - MCC-2 INCOMING CONDUITS  
E-11 1/4" = 1'-0"

ISSUE FOR BID  
NOT FOR CONSTRUCTION

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|        |        | 04/28/23 |              |        |                 |   |   |   |   |   |   |   |

**BARR**  
Corporate Headquarters:  
Minneapolis, Minnesota  
Ph: 1-800-632-2277

Project Office:  
BARR ENGINEERING CO.  
170 SOUTH MAIN STREET  
SUITE 500  
SALT LAKE CITY, UT 84101  
Ph: 1-800-632-2277  
Fax: (801) 333-8401  
www.barr.com

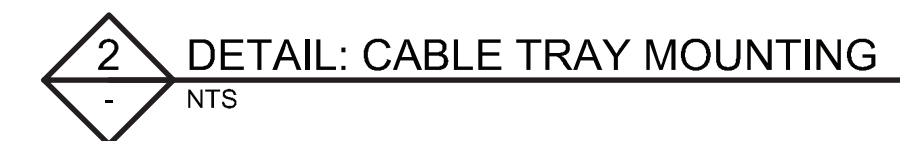
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| Date     | 11/17/2021 |
| Drawn    | TJT2       |
| Checked  | RSH        |
| Designed | RSH        |
| Approved | JSV        |



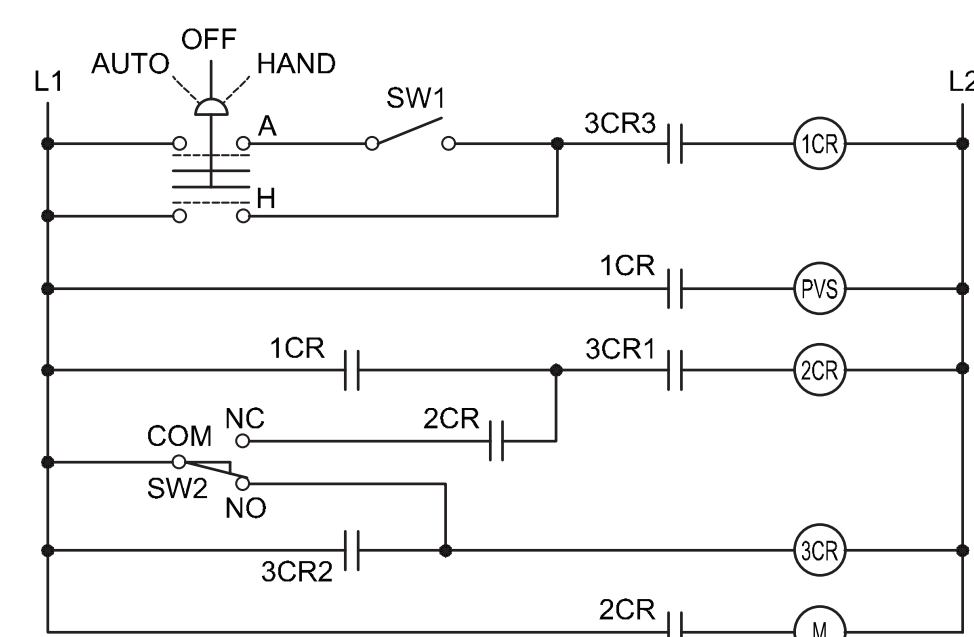
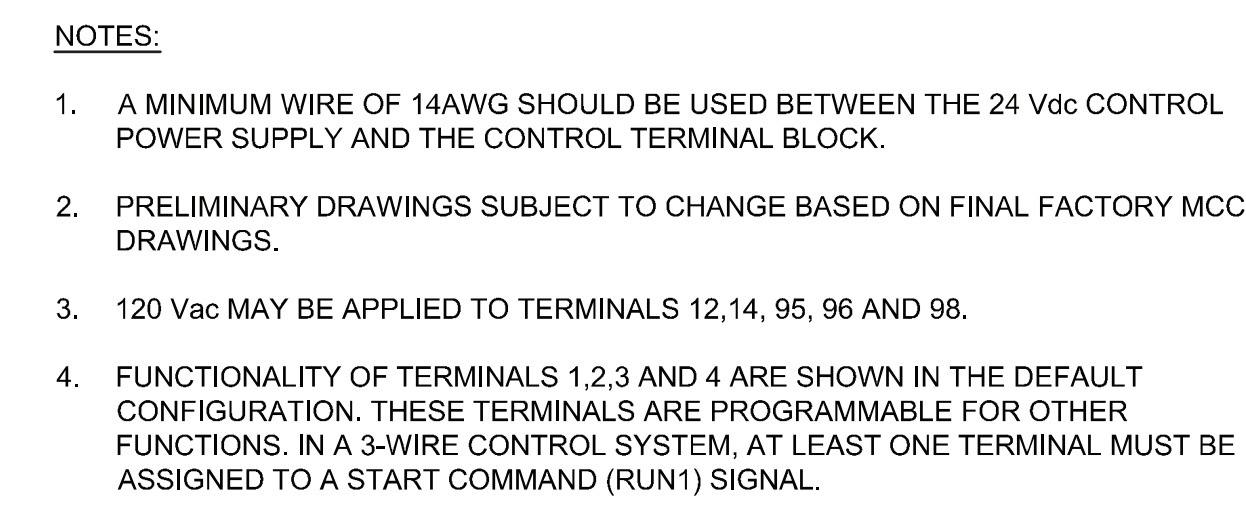
| ROCK CANYON AQUIFER STORAGE<br>BOOSTER STATION & TRANSMISSION LINE, BID SCH 1 |  | BARR PROJECT NO.<br>44251024.00        |              |
|-------------------------------------------------------------------------------|--|----------------------------------------|--------------|
| ELECTRICAL<br>ELECTRICAL ROOM SECTIONS AND ELEVATIONS                         |  | CLIENT PROJECT NO.<br>PROVOEN202320182 |              |
|                                                                               |  | DWG NO.<br>E-11                        | REV NO.<br>A |



1. CABLE TRAY MOUNTED NEXT TO A WALL CAN BE FASTENED USING B-LINE B494 OR EQUAL. BRACKET MUST BE DESIGNED TO HOLD ENTIRE WEIGHT OF CABLE TRAY AND CABLE OR A VERTICAL BRACKET MUST ALSO BE USED.
2. CABLE TRAY AND LIGHT FIXTURE MOUNTING IS FOR REFERENCE ONLY, CONTRACTOR TO FIELD VERIFY AND FIT.
3. ALL CABLE TRAY TO BE BONDED AND GROUNDED PER LATEST VERSION OF NEC.
4. USE B-LINE SB8712TG (OR COMPARABLE) WHERE CABLES EXIT CABLE TRAY.

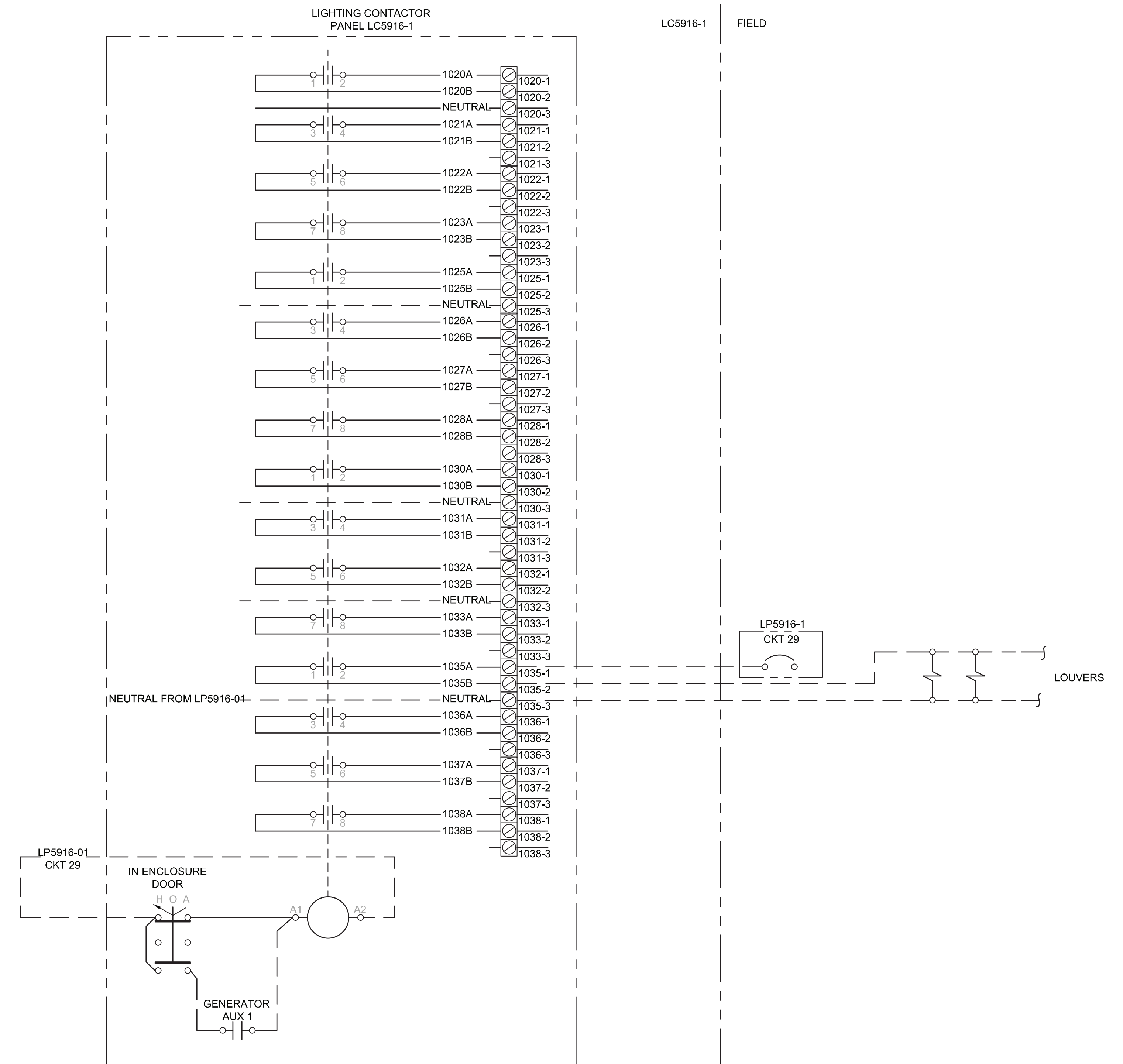
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AUTO-OFF-HAND = SELECTOR SWITCH  
1CR = RELAY, DPST NORMALLY OPEN  
2CR = RELAY, DPST NORMALLY OPEN  
3CR = RELAY, TPST NORMALLY OPEN  
SW1 = SWITCH, REMOTE START AUTOMATIC  
SW2 = SWITCH, SPDT, VALVE LIMIT SWITCH CONNECT TO NC TERMINAL  
PVS = PILOT VALVE SOLENOID  
M = PUMP MOTOR STARTER

- NOTES:**
1. SW2 AND PVS SUPPLIED BY Cla-Val. SW2 IS INCLUDED IN THE X105L SWITCH ASSEMBLY WHICH IS MOUNTED ON THE PUMP CONTROL VALVE COVER.
  2. DIAGRAM SHOWN IN PUMP OFF POSITION.
  3. DRAWINGS SUBJECT TO CHANGE BASED ON FINAL FACTORY DRAWINGS AND APCCO CONTROL DESIGN.
  4. VOLTAGE TO BE 120 V VERIFY VALVE VOLTAGE WHEN ORDERING



- NOTES:
1. ALL CIRCUITS SHALL INCLUDE GROUND WIRES - NOT SHOWN FOR CLARITY.

[illegible]



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| PROVO ASR PUMP STATION POWER CABLE SCHEDULE |                                       |               |                                           |               |                          |                  |                               |                    |            |       |            |         |              |              |                                                         |  |                                                                                                                                                                                          |
|---------------------------------------------|---------------------------------------|---------------|-------------------------------------------|---------------|--------------------------|------------------|-------------------------------|--------------------|------------|-------|------------|---------|--------------|--------------|---------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FROM                                        |                                       |               | TO                                        |               | CABLE DATA AND WIRE SIZE |                  |                               |                    |            |       |            |         |              |              |                                                         |  | NOTE: ALL CABLE SIZES ARE SHOWN BASED ON AVAILABLE INFORMATION AND DISTANCES AS OF THE DATE OF ISSUE OF THESE DRAWINGS. FUTURE LOCATION CHANGES OF EQUIPMENT MAY AFFECT CONDUCTOR SIZES. |
| CABLE \ CONDUIT ID NUMBER                   | DESCRIPTION                           | EQUIPMENT TAG | DESCRIPTION                               | EQUIPMENT TAG | IDENTIFIER               | NUMBER OF CABLES | NUMBER OF CONDUCTORS IN CABLE | SIZE AWG OR KC/MIL | CABLE TYPE | CU/AL | INSULATION | VOLTAGE | CONDUIT TYPE | CONDUIT SIZE |                                                         |  |                                                                                                                                                                                          |
| PLC5916-1-E1                                | NETWORK CABINET                       | NT5916-1      | PLC PANEL                                 | PLC5916-1     | E1                       | 1                | CAT 6                         | CAT 6              | CAT 6      | CAT 6 |            | CAT 6   | CABLE TRAY   |              | RUN CAT 6 TO EACH PC-22D PUMP CONTROLLER                |  |                                                                                                                                                                                          |
| GN5916-1-E1                                 | NETWORK CABINET                       | NT5916-1      | GENERATOR                                 | GN5916-1      | E1                       | 1                | CAT 6                         | CAT 6              | CAT 6      | CAT 6 |            | CAT 6   | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| MCC5916-1-E1                                | NETWORK CABINET                       | NT5916-1      | MCC-1                                     | MCC5916-1     | E1                       | 1                | CAT 6                         | CAT 6              | CAT 6      | CAT 6 |            | CAT 6   | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| MCC5916-2-E1                                | NETWORK CABINET                       | NT5916-1      | MCC-2                                     | MCC5916-2     | E1                       | 1                | CAT 6                         | CAT 6              | CAT 6      | CAT 6 |            | CAT 6   | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| VCM5916-1 - 7-E1                            | PLC CABINET                           | PLC5916-1     | PC-22D CONTROLLERS                        | VCM5916-1 - 7 | E1                       | 1                | CAT 6                         | CAT 6              | CAT 6      | CAT 6 |            | CAT 6   | CONDUIT      |              |                                                         |  |                                                                                                                                                                                          |
| NT5916-1-F1                                 | FIBER FROM SERVICE PROVIDER JBOX POLE | FB5916-1      | NETWORK CABINET PUMP HOUSE E ROOM         | NT5916-1      | F1                       | 1                | 12 pr.                        | Fiber              | FIBER      | CU    |            | FIBER   | PVC SCH 80   | 2"           |                                                         |  |                                                                                                                                                                                          |
| TX5916-4-F1                                 | FIBER FROM SERVICE PROVIDER JBOX POLE | FB5916-1      | EXISTING 750KVA TRANSFORMER               | TX5916-4      | F1                       | 1                | 12 pr.                        | Fiber              | FIBER      | CU    |            | FIBER   | PVC SCH 80   | 2"           |                                                         |  |                                                                                                                                                                                          |
| SE5916-1-P1                                 | 1.5MVA TRANSFORMER (GBU)              | TX5916-1      | 2000 AMP SERVICE ENTRANCE                 | SE5916-1      | P1                       | 5                | 4 WIRE + GND                  | 700                | DB 90C     | CU    | XLPE       | 600     | PVC SCH 80   | 5"           |                                                         |  |                                                                                                                                                                                          |
| AT5916-1-P1                                 | 2000 AMP SERVICE ENTRANCE             | SE5916-1      | TRANSFER SWITCH                           | AT5916-1      | P1                       | 5                | 3 WIRE + GND                  | 700                | TC 90C     | CU    | THHN       | 600     | CABLE TRAY   |              | BROWN ORANGE YELLOW                                     |  |                                                                                                                                                                                          |
| AT5916-1-P2                                 | GENERATOR 750KVA                      | GN5916-1      | TRANSFER SWITCH                           | AT5916-1      | P2                       | 4                | 3 WIRE + GND                  | 500                | TC 90C     | CU    | THHN       | 600     | PVC SCH 80   | 4"           | BROWN ORANGE YELLOW                                     |  |                                                                                                                                                                                          |
| MCC5916-1-P1                                | TRANSFER SWITCH                       | AT5916-1      | EATON MCC1 (2000 AMP)                     | MCC5916-1     | P1                       | 5                | 3 WIRE + GND                  | 700                | TC 90C     | CU    | THHN       | 600     | PVC SCH 80   | 5"           | BROWN ORANGE YELLOW                                     |  |                                                                                                                                                                                          |
| LP5916-1-P2                                 | TRANSFER SWITCH 208 CONTROL VOLTAGE   | AT5916-1      | 120 208 V PANEL                           | LP5916-1      | P2                       | 1                | 3 WIRE + GND                  | 10                 | TC         | CU    | THHN       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| -                                           |                                       |               |                                           |               |                          |                  |                               |                    |            |       |            |         |              |              |                                                         |  |                                                                                                                                                                                          |
| PU5916-1-P1                                 | EATON MCC1 SECTION 3F 156 A SS        | MCC5916-1     | P-201 (125 HP)                            | PU5916-1      | P1                       | 1                | 3 COND + GND                  | 3/0                | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              | WIRE SIZE TBD WHEN MOTOR SPECIFICATION IS AVAILABLE     |  |                                                                                                                                                                                          |
| PU5916-2-P1                                 | EATON MCC1 SECTION 3M 156 A SS        | MCC5916-1     | P-202 (125 HP)                            | PU5916-2      | P1                       | 1                | 3 COND + GND                  | 3/0                | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              | WIRE SIZE TBD WHEN MOTOR SPECIFICATION IS AVAILABLE     |  |                                                                                                                                                                                          |
| -                                           |                                       |               |                                           |               |                          |                  |                               |                    |            |       |            |         |              |              |                                                         |  |                                                                                                                                                                                          |
| PU5916-7-P1                                 | EATON MCC1 SECTION 5M 450 A SS        | MCC5916-1     | P-304 (300 HP)                            | PU5916-7      | P1                       | 2                | 3 COND + GND                  | 4/0                | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              | WIRE SIZE TBV WHEN MOTOR SPECIFICATION IS AVAILABLE     |  |                                                                                                                                                                                          |
| WD5916-1-P1                                 | EATON MCC1 2K 400 AMP BREAKER         | MCC5916-1     | 480 VOLT PANEL BOARD 400 AMP              | DP5916-1      | P1                       | 2                | 3 COND + GND                  | 3/0                | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| WD-01-P1                                    | 480 V DP5916-1 PANEL 60 AMP BREAKER   | DP5916-8      | WELDING OUTLET CKT 8,10,12                | WD-01         | P1                       | 1                | 3 COND + GND                  | 6                  | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| WD-02-P1                                    | 480 V DP5916-1 PANEL 60 AMP BREAKER   | DP5916-14     | WELDING OUTLET CKT 14,16,18               | WD-02         | P1                       | 1                | 3 COND + GND                  | 6                  | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| AHU5916-2-P1                                | 480 V DP-5916-1 PANEL 125 AMP BREAKER | DP5916-1      | HVAC UNIT 1 CKT 1,3,5                     | AHU5916-2     | P1                       | 1                | 3 COND + GND                  | 1/0                | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              | BREAKER AND WIRE SIZE TBD FROM HVAC SPECIFICATION       |  |                                                                                                                                                                                          |
| AHU5916-1-P1                                | 480 V DP-5916-1 PANEL 125 AMP BREAKER | DP5916-7      | HVAC UNIT 2 CKT 7,9,11                    | AHU5916-1     | P1                       | 1                | 3 COND + GND                  | 1/0                | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              | BREAKER AND WIRE SIZE TBD FROM HVAC SPECIFICATION       |  |                                                                                                                                                                                          |
| -                                           |                                       |               |                                           |               |                          |                  |                               |                    |            |       |            |         |              |              |                                                         |  |                                                                                                                                                                                          |
| UH5916-3-P1                                 | 480 V DP5916-1 PANEL 20 AMP BREAKER   | DP5916-25     | BASEMENT UNIT HEATER CKT 25,27,29         | UH5916-3      | P1                       | 1                | 3 COND + GND                  | 12                 | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| SE5916-2-P1                                 | 2MVA TRANSFORMER (ASR)                | TX5916-2      | EATON SERVICE ENTRANCE (3000 AMP)         | SE5916-2      | P1                       | 7                | 4 COND + GND                  | 700                | DB 90C     | CU    | XLPE       | 600     | PVC SCH 80   | 5"           |                                                         |  |                                                                                                                                                                                          |
| MCC5916-2-P1                                | EATON SERVICE ENTRANCE (3000 AMP)     | SE5916-2      | EATON MCC2 (3000 AMP)                     | MCC5916-2     | P1                       | 7                | 3 COND + GND                  | 700                | DB 90C     | CU    | XLPE       | 600     | PVC SCH 80   | 5"           |                                                         |  |                                                                                                                                                                                          |
| PU5916-4-P1                                 | EATON MCC2 4M 850 AMP SS              | MCC5916-2     | P-301 (600 HP)                            | PU5916-4      | P1                       | 3                | 3 COND + GND                  | 300                | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              | WIRE SIZE TBD WHEN MOTOR SPECIFICATION IS AVAILABLE     |  |                                                                                                                                                                                          |
| PU5916-5-P1                                 | EATON MCC2 5M 850 AMP SS              | MCC5916-2     | P-302 (600 HP)                            | PU5916-5      | P1                       | 3                | 3 COND + GND                  | 300                | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              | WIRE SIZE TBD WHEN MOTOR SPECIFICATION IS AVAILABLE     |  |                                                                                                                                                                                          |
| PU5916-6-P1                                 | EATON MCC2 6M 850 AMP SS              | MCC5916-2     | P-303 (600 HP)                            | PU5916-6      | P1                       | 3                | 3 COND + GND                  | 300                | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              | WIRE SIZE TBD WHEN MOTOR SPECIFICATION IS AVAILABLE     |  |                                                                                                                                                                                          |
| PU5916-3-P1                                 | EATON MCC2 3F 180 AMP SS              | MCC5916-2     | P-203 (125 HP)                            | PU5916-3      | P1                       | 1                | 3 COND + GND                  | 3/0                | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              | WIRE SIZE TBD WHEN MOTOR SPECIFICATION IS AVAILABLE     |  |                                                                                                                                                                                          |
| -                                           |                                       |               |                                           |               |                          |                  |                               |                    |            |       |            |         |              |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-1-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | E-ROOM OUTLETS CKT 1                      | LP5916-1      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-2-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | E-ROOM LIGHTS CKT 2                       | LP5916-2      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-3-P3                                 | 120 - 208 V PANEL                     | LP5916-1      | GEN-ROOM LIGHTS CKT 3                     | LP5916-3      | P3                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-4-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | GEN-ROOM OUTLETS CKT 4                    | LP5916-4      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-5-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | PUMP-ROOM OUTLETS CKT 5                   | LP5916-5      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-6-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | PUMP-ROOM OUTLETS CKT 6                   | LP5916-6      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-7-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | EXTERIOR-LIGHTS CKT 7                     | LP5916-7      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-8-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | EXTERIOR-GFCI CKT 8                       | LP5916-8      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-9-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | EXTERIOR-GFCI CKT 9                       | LP5916-9      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-10-P1                                | 120 - 208 V PANEL                     | LP5916-1      | EXTERIOR-GFCI CKT 10                      | LP5916-10     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-11-P1                                | 120 - 208 V PANEL                     | LP5916-1      | EXTERIOR-GFCI CKT 11                      | LP5916-11     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-12-P1                                | 120 - 208 V PANEL                     | LP5916-1      | PLC PANEL CKT 12                          | LP5916-12     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-13-P1                                | 120 - 208 V PANEL                     | LP5916-1      | NETWORK CABINET CKT 13                    | LP5916-13     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-14-P1                                | 120 - 208 V PANEL                     | LP5916-1      | GEN-ROOM OULET 2 GFCI WP CKT 14           | LP5916-14     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-15-P1                                | 120 - 208 V PANEL                     | LP5916-1      | PUMP-ROOM OULET 2 GFCI WP CKT 15          | LP5916-15     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-16-P1                                | 120 - 208 V PANEL                     | LP5916-1      | EMERGENCY LIGHTS CKT 16                   | LP5916-16     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-17-P1                                | 120 - 208 V PANEL                     | LP5916-1      | PUMP-ROOM OULET GFCI WP CKT 17            | LP5916-17     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-18-P1                                | 120 - 208 V PANEL                     | LP5916-1      | E-ROOM OULET CKT 18                       | LP5916-18     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-19-P1                                | 120 - 208 V PANEL                     | LP5916-1      | PUMP-ROOM OULET GFCI WP CKT 19            | LP5916-19     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-20-P1                                | 120 - 208 V PANEL                     | LP5916-1      | E-ROOM OULET CKT 20                       | LP5916-20     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-21-P1                                | 120 - 208 V PANEL                     | LP5916-1      | GENERATOR COOLANT H CKT 21,23,25          | LP5916-21     | P1                       | 1                | 3 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-22-P1                                | 120 - 208 V PANEL                     | LP5916-1      | BASEMENT LIGHTS CKT 22                    | LP5916-22     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-23-P1                                | 120 - 208 V PANEL                     | LP5916-1      | BASEMENT OUTLETS CKT 24                   | LP5916-23     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-24-P1                                | 120 - 208 V PANEL                     | LP5916-1      | BASEMENT OUTLETS CKT 26                   | LP5916-24     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| LP5916-27-P1                                | 120 - 208 V PANEL                     | LP5916-1      | ROOF TOP GFCI WP CKT 27                   | LP5916-27     | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| AT5916-1-P3                                 | 120 - 208 V PANEL                     | LP5916-1      | ATS CONTROL POWER                         | AT5916-1      | P3                       | 1                | 3 WIRE + GND                  | 12                 | TC         | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| VCM5916-1 - 3-P1                            | 120 - 208 V PANEL                     | LP5916-1      | PC-22D VALVE CONTROL MODULE               | VCM5916-1 - 3 | P1                       | 1                | 3 WIRE + GND                  | 12                 | ALPHA      | CU    |            |         | CABLE TRAY   |              | POWER CABLE FOR 3 INDIVIDUAL PC-22D PANELS              |  |                                                                                                                                                                                          |
| MCC5916-4 - 5-P2                            | 120 - 208 V PANEL                     | LP5916-1      | PC-22D VALVE CONTROL MODULE               | VCM5916-4 - 5 | P2                       | 1                | 3 WIRE + GND                  | 12                 | ALPHA      | CU    |            |         | CABLE TRAY   |              | POWER CABLE FOR 2 INDIVIDUAL PC-22D PANELS              |  |                                                                                                                                                                                          |
| VCM5916-6 - 7-P3                            | 120 - 208 V PANEL                     | LP5916-1      | PC-22D VALVE CONTROL MODULE               | VCM5916-6 - 7 | P3                       | 1                | 3 WIRE + GND                  | 12                 | ALPHA      | CU    |            |         | CABLE TRAY   |              | POWER CABLE FOR 2 INDIVIDUAL PC-22D PANELS              |  |                                                                                                                                                                                          |
| UH5916-1-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | PUMP ROOM UNIT HEATER CKT 33              | UH5916-1      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              | BREAKER AND WIRE SIZE TBD FROM FAN SPECIFICATION        |  |                                                                                                                                                                                          |
| UH5916-2-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | PUMP ROOM UNIT HEATER CKT 34              | UH5916-2      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              | BREAKER AND WIRE SIZE TBD FROM FAN SPECIFICATION        |  |                                                                                                                                                                                          |
| PC-22D-1-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | PUMP ROOM PU5916-1,2,3 PC-22D CONT. PANEL | PC-22D-1      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| PC-22D-2-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | PUMP ROOM PU5916-4,5 PC-22D CONT. PANEL   | PC-22D-2      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| PC-22D-3-P1                                 | 120 - 208 V PANEL                     | LP5916-1      | PUMP ROOM PU5916-6,7 PC-22D CONT. PANEL   | PC-22D-3      | P1                       | 1                | 2 WIRE + GND                  | 12                 | TC 90C     | CU    | XLPE       | 600     | CABLE TRAY   |              |                                                         |  |                                                                                                                                                                                          |
| -                                           |                                       |               |                                           |               |                          |                  |                               |                    |            |       |            |         |              |              |                                                         |  |                                                                                                                                                                                          |
| FM5916-1-C1                                 | PLC                                   | PLC5916-1     | FLOW METER 1                              | FM5916-1      | C1                       | 1                | 2 PAIR TS                     | 16                 | ALPHA      | CU    | XLPE       | 600     | RMC          | 0.75         | CABLES TO BE VERIFIED WITH APCO, TWISTED SHIELDED CABLE |  |                                                                                                                                                                                          |
| FM5916-2-C1                                 | PLC                                   | PLC5916-1     | FLOW METER 2                              | FM5916-2      | C1                       | 1                | 2 PAIR TS                     | 16                 | ALPHA      | CU    | XLPE       | 600     | RMC          | 0.75         | CABLES TO BE VERIFIED WITH APCO, TWISTED SHIELDED CABLE |  |                                                                                                                                                                                          |
| FM5916-3-C1                                 | PLC                                   | PLC5916-1     | FLOW METER 3                              | FM5916-3      | C1                       | 1                | 2 PAIR TS                     | 16                 | ALPHA      | CU    | XLPE       | 600     | RMC          | 0.75         | CABLES TO BE VERIFIED WITH APCO, TWISTED SHIELDED CABLE |  |                                                                                                                                                                                          |
| FM5916-4-C1                                 | PLC                                   | PLC5916-1     | FLOW METER 4                              | FM5916-4      | C1                       | 1                | 2 PAIR TS                     | 16                 | ALPHA      | CU    | XLPE       | 600     | RMC          | 0.75         | CABLES TO BE VERIFIED WITH APCO, TWISTED SHIELDED CABLE |  |                                                                                                                                                                                          |
| FM5916-5-C1                                 | PLC                                   | PLC5916-1     | FLOW METER 5                              | FM5916-5      | C1                       | 1                | 2 PAIR TS                     | 16                 | ALPHA      | CU    | XLPE       | 600     | RMC          | 0.75         | CABLES TO BE VERIFIED WITH APCO, TWISTED SHIELDED CABLE |  |                                                                                                                                                                                          |
| FM5916-6-C1                                 | PLC                                   | PLC5916-1     | FLOW METER 6                              | FM5916-6      | C1                       | 1                | 2 PAIR TS                     | 16                 | ALPHA      | CU    | XLPE       | 600     | RMC          | 0.75         | CABLES TO BE VERIFIED WITH APCO, TWISTED SHIELDED CABLE |  |                                                                                                                                                                                          |
| FM5916-7-C1                                 | PLC                                   | PLC5916-1     | FLOW METER 7                              | FM5916-7      | C1                       | 1                | 2 PAIR TS                     | 16                 | ALPHA      |       |            |         |              |              |                                                         |  |                                                                                                                                                                                          |



| 480V PANEL DP5916-1         |         |             |          |      |      |      |          |                |        |                         |
|-----------------------------|---------|-------------|----------|------|------|------|----------|----------------|--------|-------------------------|
| MOUNTING: SURFACE/WALL      |         | BUS AMPS:   |          | 400A |      |      |          | REMARKS        |        |                         |
| LOCATION: FED FROM MCC      |         | VOLTS:      |          | 480V |      |      |          | MAIN LUG ONLY  |        |                         |
|                             |         | PHASE/WIRE: |          | 3/3  |      |      |          | PROVO CITY ASR |        |                         |
| DESCRIPTION                 | BKR     | CKT. NO.    | LOAD KVA | PH A | PH B | PH C | LOAD KVA | CKT. NO.       | BKR.   | DESCRIPTION             |
| AHU5916-1 AIR HANDLING UNIT | 125A-3P | 1           |          |      |      |      |          | 2              | 20A-3P | SPARE                   |
|                             |         | 3           |          |      |      |      |          | 4              |        |                         |
|                             |         | 5           |          |      |      |      |          | 6              |        |                         |
| AHU5916-2 AIR MAKE-UP UNIT  | 125A-3P | 7           |          |      |      |      |          | 8              | 60A-3P | WELDING OUTLET          |
|                             |         | 9           |          |      |      |      |          | 10             |        |                         |
|                             |         | 11          |          |      |      |      |          | 12             |        |                         |
| SPARE                       | 15A-3P  | 13          |          |      |      |      |          | 14             | 60A-3P | WELDING OUTLET BASEMENT |
|                             |         | 15          |          |      |      |      |          | 16             |        |                         |
|                             |         | 17          |          |      |      |      |          | 18             |        |                         |
| SPARE                       | 15A-3P  | 19          |          |      |      |      |          | 20             | 15A-3P | SPARE                   |
|                             |         | 21          |          |      |      |      |          | 22             |        |                         |
|                             |         | 23          |          |      |      |      |          | 24             |        |                         |
| UH5916-1 UNIT HEATER #1     | 20A-3P  | 25          |          |      |      |      |          | 26             | 30A-3P | SPARE                   |
|                             |         | 27          |          |      |      |      |          | 28             |        |                         |
|                             |         | 29          |          |      |      |      |          | 30             |        |                         |
| SPARE                       | 30A-3P  | 31          |          |      |      |      |          | 32             | 30A-3P | SPARE                   |
|                             |         | 33          |          |      |      |      |          | 34             |        |                         |
|                             |         | 35          |          |      |      |      |          | 36             |        |                         |

[illegible]





Barr Engineering Co.

|                        |                |                     |
|------------------------|----------------|---------------------|
| <b>Project Name:</b>   | Provo City ASR | <b>By:</b> RSH      |
| <b>Project Number:</b> | 44251024       | <b>Checked:</b> JSV |
| <b>Date:</b>           | 3/11/2022      |                     |

**BOM**

| Equip. Name                                                         | AREA                | TAG#      | QTY       | Units | Schedule | COMMENTS                                                                                                                                                              |
|---------------------------------------------------------------------|---------------------|-----------|-----------|-------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.5 MVA Transformer                                                 | Exterior            | TX5916-1  | 1         | EA    |          | Supplied by Provo City Power                                                                                                                                          |
| 2 MVA Transformer                                                   | Exterior            | TX5916-2  | 1         | EA    |          | Supplied by Provo City Power                                                                                                                                          |
| Generator 750 kW SG750                                              | Pump House Gen R.   | GN5916-1  | 1         | EA    |          | GENERAC SG1000 Rexal Quote                                                                                                                                            |
| Auto Transfer Switch                                                | Electrical Room     | AT5916-1  | 1         | EA    |          | GENERAC 2000 Amp Rexal Quote                                                                                                                                          |
| Service Entrance Switch Gear 2000 AMP                               | Exterior Elec. Room | SE5916-1  | 1         | EA    |          | EATON SPECIFICATION 2000A TRIP                                                                                                                                        |
| Motor Control Center MCC1                                           | Electrical Room     | MCC5916-1 | 1         | EA    |          | EATON SPECIFICATION                                                                                                                                                   |
|                                                                     |                     |           |           |       |          | Wiegmann enclosure, NEMA 1/3R, 48 x 36 x 16in (HxWxD), wall mount, carbon steel, ANSI 61 gray, powder coat finish, screw cover with handles, padlock hasp and staple. |
| Service Entrance Pull box WCT483616                                 | Exterior Elec. Room | NA        | 1         | EA    |          |                                                                                                                                                                       |
| Service Entrance Switch Gear 3000 AMP                               | Exterior Elec. Room | SE5916-2  | 1         | EA    |          | EATON SPECIFICATION                                                                                                                                                   |
| Motor Control Center MCC2                                           | Electrical Room     | MCC5916-2 | 1         | EA    |          | EATON SPECIFICATION                                                                                                                                                   |
| 208/120 volt lighting panel main breaker 150 A (42 Circuit Panel)   | Electrical Room     | LP5916-1  | 1         | EA    |          | Included in MCC                                                                                                                                                       |
| 480V Primary 120/208 Secondary 60 kVA Transformer                   | Electrical Room     | TX5916-3  | 1         | EA    |          | Included in MCC                                                                                                                                                       |
| 480/277 Volt DP Panel MLO Bus 400 A                                 | Electrical Room     | DP5916-1  | 1         | EA    |          | EATON SPECIFICATION                                                                                                                                                   |
| In Ground Pull Box                                                  | Power               |           | 2         | EA    |          | As needed                                                                                                                                                             |
| Fiber In Ground Connection Box                                      | Power               |           | 2         | EA    |          | As needed                                                                                                                                                             |
| Cable: Transformer to Service Entrance 2000 AMP                     | Power               |           | 100       | LF    |          | See cable schedule Verify length before purchase                                                                                                                      |
| Cable: Transformer to Service Entrance 3000 AMP                     | Power               |           | 100       | LF    |          | See cable schedule Verify length before purchase                                                                                                                      |
|                                                                     |                     |           |           |       |          |                                                                                                                                                                       |
| Electrical Cable                                                    | Power               |           | Varies    |       |          | See cable schedule Verify length before purchase                                                                                                                      |
| Electrical Cable                                                    | Control / Instrum.  |           | Varies    |       |          | See cable schedule Verify length before purchase coordinate with APCO                                                                                                 |
| Fiber Optic Cable (24 Strand SM)                                    | Control / Instrum.  |           | TBV       | LF    |          | See cable schedule                                                                                                                                                    |
| CAT 6 Ethernet Cable                                                | Control / Instrum.  |           | 1000      | LF    |          | See cable schedule                                                                                                                                                    |
| Network Cabinet                                                     | Control / Instrum.  |           | 1         | EA    |          | Supplied by APCO                                                                                                                                                      |
| PLC Cabinet                                                         | Control / Instrum.  |           | 1         | EA    |          | Supplied by APCO                                                                                                                                                      |
| PC22D Electronic Pump Control Panel                                 | Control / Instrum.  |           | 7         | EA    |          | Scada control of pump outlet valves                                                                                                                                   |
| Cable Tray 24 X 6                                                   | Raceway             |           |           | LOT   |          | Lengths to be determined and supplied by contractor                                                                                                                   |
| Cable Tray 12 X 6                                                   | Raceway             |           |           | LOT   |          | Lengths to be determined and supplied by contractor                                                                                                                   |
|                                                                     |                     |           |           |       |          |                                                                                                                                                                       |
| Threaded rod, hangers, hardware, uni-strut                          | Raceway             |           | As Needed |       |          | Lengths to be determined and supplied by contractor                                                                                                                   |
| PVC Conduit SCH 80 5"                                               | Raceway             |           | TBD       | LF    |          | See cable schedule                                                                                                                                                    |
| PVC Conduit SCH 80 4"                                               | Raceway             |           | TBD       | LF    |          | See cable schedule                                                                                                                                                    |
| PVC Conduit SCH 80 2"                                               | Raceway             |           | TBD       | LF    |          | See cable schedule                                                                                                                                                    |
| RMC Conduit                                                         | Raceway             |           | TBD       | LF    |          | Size and lengths to be determined by contractor                                                                                                                       |
| Conduit Fittings, Nuts, Bushings                                    | Raceway             |           | As Needed | LF    |          | To be supplied by contractor                                                                                                                                          |
| Seal Tite Flexible Conduit                                          | Raceway             |           | As Needed | LF    |          | Size and lengths to be determined by contractor                                                                                                                       |
| Lights Interior E-ROOM                                              | Building            |           |           | EA    |          | See Drawings and Light Fixture Schedule                                                                                                                               |
| Lights Interior PUMP ROOM                                           | Building            |           |           | EA    |          | See Drawings and Light Fixture Schedule                                                                                                                               |
| Lights Interior UPSTAIRS ROOM                                       |                     |           |           | EA    |          | See Drawings and Light Fixture Schedule                                                                                                                               |
| Lights Exterior                                                     | Building            |           |           | EA    |          | See Drawings and Light Fixture Schedule                                                                                                                               |
| EXIT SIGNS                                                          | Building            |           |           | EA    |          | See Drawings and Light Fixture Schedule                                                                                                                               |
|                                                                     |                     |           |           |       |          |                                                                                                                                                                       |
| Boxes, fittings, covers (inside)                                    | Building            |           |           | EA    |          | See electrical drawings                                                                                                                                               |
| 120V Convenience Recept's (GFCI) WR inside                          | Building            |           |           | EA    |          | See electrical drawings                                                                                                                                               |
| 120V Convenience Recept's (GFCI) WR outside                         | Building            |           |           | EA    |          | See electrical drawings                                                                                                                                               |
| Boxes, fittings, covers (WP outside)                                | Building            |           |           |       |          | See electrical drawings                                                                                                                                               |
| 480V Welding Receptacles, Boxes, fittings, covers, Disconnects (WP) | Building            |           | 2         | EA    |          | See electrical drawings                                                                                                                                               |
|                                                                     |                     |           |           |       |          |                                                                                                                                                                       |
| Seal tight conduit                                                  | Building            |           | AS NEEDED | LF    |          | SUPPLIED BY CONTRACTOR                                                                                                                                                |
| Unistrut and Hardware                                               |                     |           | AS NEEDED |       |          | SUPPLIED BY CONTRACTOR                                                                                                                                                |
| Myers Hubs through bulk head fittings 4 INCH                        |                     |           | 10        | EA    |          | As needed for enclosure to enclosure water tight connections                                                                                                          |
|                                                                     |                     |           |           |       |          |                                                                                                                                                                       |
| <b>Grounding</b>                                                    |                     |           |           |       |          |                                                                                                                                                                       |
| #4/0 Ground Wire                                                    | Grounding           |           | 1000      | LF    |          | See Grounding Drawings and Details                                                                                                                                    |
| #2/0 Ground Wire                                                    | Grounding           |           | 500       | LF    |          | See Grounding Drawings and Details                                                                                                                                    |
| Compression Fittings                                                | Grounding           |           | TBD       | EA    |          | See Grounding Drawings and Details                                                                                                                                    |
| Ground Rods                                                         | Grounding           |           | 4         | EA    |          | See Grounding Drawings and Details                                                                                                                                    |
| Ground Test Well                                                    | Grounding           |           | 2         | EA    |          | See Grounding Drawings and Details                                                                                                                                    |
| CADWELD                                                             | Grounding           |           | TBD       | EA    |          | See Grounding Drawings and Details                                                                                                                                    |
|                                                                     |                     |           |           |       |          |                                                                                                                                                                       |
| PC-22D Electronic Pump Control Panel                                | Valves              | PC-22D    | 7         | EA    |          | See drawing verify valve voltage                                                                                                                                      |
| Lighting Contactor                                                  |                     | LC5916-1  | 1         | EA    |          | See drawing                                                                                                                                                           |
| Hubbell 30 Amp disconnect NEMA 4X                                   | Basement            |           | 1         | EA    |          | HBLS10RC Basement Heater                                                                                                                                              |
|                                                                     |                     |           |           |       |          |                                                                                                                                                                       |
| Door Switch                                                         | Exterior Doors      | DS5916-1  | 6         | EA    |          | Small Non-Contact Door Switch (D40A) (OMRON) (D40A-1C2)                                                                                                               |
| Flood Switch                                                        | Basement            | FS5916-1  | 1         | EA    |          | Small Float Switch to indicate basement flood 2" off floor                                                                                                            |

**Instructions:**

Complete this check list for all switch gear, MCC, Panel and electrical equipment

| Switchgear MCC Checklist                          |                    |            |  |
|---------------------------------------------------|--------------------|------------|--|
| Task / Work Description                           | Completed<br>(Y/N) | Contractor |  |
| <b>Documents:</b>                                 |                    |            |  |
| Lug sizes have been verified                      |                    | x          |  |
| Orientation of circuit breakers has been verified |                    | x          |  |
| Name Plate information has been verified          |                    | x          |  |
| Top or Bottom Entry has been verified             |                    | x          |  |
| Surface or Flush mount has been verified for all  |                    | x          |  |
| Shipping splits has been verified                 |                    | x          |  |
| Incoming Left or right has been verified          |                    | x          |  |
| Dimensions have been verified for                 |                    | x          |  |
| Applicable drawings have been approved by utility |                    | x          |  |
|                                                   |                    |            |  |

ISSUE FOR BID  
NOT FOR CONSTRUCTION

[illegible]