

# DUPLEX PUMP STATION ELECTRICAL DRAWING INDEX

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## GENERAL NOTES:

- 1.) SITE SPECIFIC CONDITIONS DETERMINE THE CLASSIFICATION OF PUMP STATION IN ACCORDANCE WITH FDEP STANDARDS AND MUST BE DETERMINED BY THE DESIGN ENGINEER FOR EACH SPECIFIC PROJECT.
- 2.) A PUMP STATION THAT RECEIVES FLOW FROM MORE THAN 1 LOCATION WILL BE CLASSIFIED AS EITHER A REPUMP STATION OR A MASTER PUMP STATION. THE DETERMINATION OF PUMP STATION CLASSIFICATION IS VERY SITE SPECIFIC. ENGINEER, DEVELOPER AND/OR CONTRACTOR MUST COORDINATE WITH LEE COUNTY UTILITIES TO CORRECTLY CATEGORIZE THE STATION. PUMP STATION CLASSIFICATION DETERMINES WHICH STANDARD TO REFERENCE. REPUMP STATIONS CAN BE UP TO 77HP, 2 OR 3 PUMPS AND WILL BE EQUIPPED WITH ACROSS THE LINE STARTERS CONTROLLED BY SCADA-PAK. REFERENCE LCU STANDARD DUPLEX 3-PHASE PUMP STATION WITH GENERATOR OR LCU STANDARD TRIPLEX 3-PHASE PUMP STATION WITH GENERATOR FOR GENERAL CONSTRUCTION STANDARDS. SIZE ELECTRICAL SERVICE AND EQUIPMENT SITE SPECIFIC TO REPUMP STATION HORSEPOWER. MASTER PUMP STATIONS WILL BE 35HP AND GREATER, MOST LIKELY 3 PUMPS. THEY WILL BE EQUIPPED WITH VFDS WHICH ARE LEVEL CONTROLLED THROUGH A PLC. REFERENCE LCU MASTER PUMP STATION STANDARD DRAWINGS. SIZE ELECTRICAL SERVICE AND EQUIPMENT SITE SPECIFIC TO MASTER PUMP STATION HORSEPOWER.

## SUBMITTAL REQUIREMENT:

LEE COUNTY UTILITIES REQUIRES PUMP STATION SUBMITTALS BE PROVIDED FOR THEIR REVIEW TO ENSURE COMPLIANCE WITH THE LCU PUMP STATION STANDARDS.

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| LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARDS | ISSUED FOR:<br><b>RECORD</b> |
| ELECTRICAL DRAWING INDEX                               | DATE:<br><b>04/2026</b>      |
|  | SHEET NO. :<br><b>E-1</b>    |

# ABBREVIATIONS LIST

|                   |  |
|-------------------|--|
| A                 | AMPS   |
| AF                | AMP FRAME                                      |
| AIC               | AMPS INTERRUPTING CURRENT                      |
| ALUM              | ALUMINUM                                       |
| AT                | AMP TRIP                                       |
| ATS               | AUTOMATIC TRANSFER SWITCH                      |
| AVAIL             | AVAILABLE                                      |
| AWG               | AMERICAN WIRE GAUGE                            |
| C.                | CONDUIT  |
| CAB               | CABINET  |
| CAT               | CATEGORY                                       |
| CONV              | CONVERSION                                     |
| CRCC              | CELLULAR ROUTER COMMUNICATION CABINET          |
| CU                | COPPER   |
| D                 | DEPTH  |
| DIA               | DIAMETER                                       |
| DRGS              | DRAWINGS                                       |
| ENET              | ETHERNET                                       |
| EXT               | EXTERNAL                                       |
| FOCC              | FIBER OPTIC CONVERSION CABINET                 |
| FPL               | FLORIDA POWER AND LIGHT                        |
| GND OR GRD. OR G. | GROUND   |
| H                 | HEIGHT   |
| HZ                | HERTZ  |
| I&C               | INSTRUMENTATION AND CONTROLS                   |
| I/O               | INPUT/OUTPUT                                   |
| INST              | INSTRUMENT                                     |
| INT               | INTERNAL                                       |
| KVA               | KILOVOLT-AMPERES (1VA*10 <sup>-3</sup> )       |
| LCU               | LEE COUNTY UTILITIES                           |
| LT                | LIGHT  |
| MA                | MILLIAMPS (1A*10 <sup>-3</sup> )               |
| MCB               | MAGNETIC CIRCUIT BREAKER                       |
| MIN               | MINIMUM  |
| NA                | NOT APPLICABLE                                 |
| NEC               | NATIONAL ELECTRIC CODE                         |
| NEMA              | NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION    |
| NTS               | NOT TO SCALE                                   |
| P                 | POLE   |
| PH                | PHASE  |
| P&ID              | PROPORTIONAL INTEGRAL DERIVATIVE               |
| PLC               | PROGRAMMABLE LOGIC CONTROLLER                  |
| PW                | PRODUCTION WELL                                |
| MPZ               | MINI POWER ZONE                                |
| SCH               | SCHEDULE                                       |
| SE                | SERVICE ENTRANCE                               |
| SPD               | SURGE PROTECTION DEVICE                        |
| SS                | STAINLESS STEEL                                |
| TEMP              | TEMPERATURE OR TEMPORARY                       |
| TSP               | TWISTED SHIELDED PAIR                          |
| TYP               | TYPICAL  |
| U.G.              | UNDERGROUND                                    |
| UPS               | UNINTERRUPTIBLE POWER SOURCE                   |
| V                 | VOLTS  |
| VA                | VOLT-AMPERES (APPARENT POWER)                  |
| VAC               | VOLTS ALTERNATING CURRENT                      |
| VDC               | VOLTS DIRECT CURRENT                           |
| VFD               | VARIABLE FREQUENCY DRIVE                       |
| W                 | WATTS (REAL POWER)                             |
| PCP               | PUMP CONTROL PANEL                             |
| W/                | WITH   |
| XFMR              | TRANSFORMER                                    |
| "                 | INCHES   |
| ' OR FT           | FEET   |
| # OR NO.          | NUMBER   |
| E# OR I#          | 11"X17" SHEET                                  |
| ES-#              | 8.5"X11" SHEET                                 |
| FDEP              | FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION |

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LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARDS

ABBREVIATIONS LIST

# CONTROL/ELEMENTARY SYMBOLS

- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- LIMIT SWITCH, NORMALLY OPEN
- LIMIT SWITCH, NORMALLY CLOSED
- PRESSURE SWITCH, NORMALLY OPEN
- PRESSURE SWITCH, NORMALLY CLOSED
- FLOAT SWITCH, NORMALLY OPEN
- FLOAT SWITCH, NORMALLY CLOSED
- FLOW SWITCH, NORMALLY OPEN
- FLOW SWITCH, NORMALLY CLOSED
- TEMPERATURE SWITCH, NORMALLY OPEN
- TEMPERATURE SWITCH, NORMALLY CLOSED
- NORMALLY OPEN, TIMED TO CLOSE CONTACT
- NORMALLY CLOSED, TIMED TO OPEN CONTACT
- NORMALLY CLOSED, TIMED TO CLOSE CONTACT
- NORMALLY OPEN, TIMED TO OPEN CONTACT
- ANALYZER INDICATOR TRANSMITTER
- ALARM RELAY
- ALARM TIMER
- CONTROL RELAY
- FLOW INDICATOR TRANSMITTER (TOTALIZER)
- FLOW SWITCH HIGH/LOW
- LIQUID LEVEL SWITCH
- LEVEL INDICATOR TRANSMITTER
- LIMIT SWITCH OR LEVEL SWITCH
- MOTOR SWITCH MANUAL
- MOTOR STARTER
- PRESSURE GAUGE
- PROCESS FLOW TIMER
- PRESSURE SWITCH
- TEMPERATURE SWITCH
- TIMING RELAY
- SURGE SUPPRESSION DEVICE
- SOLENOID VALVE
- VIBRATION SWITCH
- TORQUE SWITCH
- ZERO SPEED SWITCH
- ALARM INDICATING LIGHT
- RUN INDICATING LIGHT
- MOMENTARY CONTACT PUSHBUTTON
- MOMENTARY BREAK PUSHBUTTON OR RESET
- KEYED SWITCH
- MAINTAINED CONTACT ON-OFF SWITCH
- START/STOP (S/S) CONTROL SWITCH
- MAINTAINED CONTACT
- FUSE
- MOLDED CASE CIRCUIT BREAKER
- CONTROL POWER TRANSFORMER
- REMOTE TERMINAL BLOCK POINT

# ELECTRICAL PLAN SYMBOLS

- WALL OUTLET BOX AND 20 AMP SINGLE POLE SWITCH ('a' INDICATES SWITCHES) 48" TO CENTERLINE
- WALL OUTLET BOX AND 20 AMP 3-WAY SWITCH ('a' INDICATES SWITCHES) 48" TO CTR LINE.
- MANUAL MOTOR STARTING SWITCH WITH OVERLOADS AND PILOT LIGHT. NEMA 4X TYPICAL
- WALL OUTLET BOX AND 20 AMP SWITCH WITH WEATHERPROOF COVER OR ENCLOSURE.
- WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTACLE 18" TO CENTERLINE
- WALL OUTLET BOX AND 20 AMP DUPLEX RECEPT MOUNTED 48" AFF OR AS NOTED.
- WALL OUTLET BOX AND 20 AMP GFCI DUPLEX RECEPTACLE AT 18" TO CENTERLINE. WP INDICATES WEATHERPROOF COVER PLATE.
- WALL OUTLET BOX AND 20 AMP GFCI RECEPTACLE MOUNTED 48" AFF OR AS NOTED.
- WALL OUTLET BOX AND DOUBLE 20 AMP DUPLEX RECEPTACLES 18" TO CENTERLINE
- FLUSH MOUNTED JUNCTION BOX ( SURFACE IN MECH/ELEC SPACES OR ABOVE CEILINGS).
- BRANCH CIRCUIT CONDUIT AND WIRE GENERALLY SURFACE MOUNTED, CONCEALED ABOVE CEILINGS SLASH MARKS INDICATE NUMBER OF CONDUCTORS; (MARKS SHOWN TO AID CONTRACTOR IN BIDDING, THE CONTRACTOR SHALL PROVIDE THE REQUIRED CONDUCTORS UNDER THE CONTRACT SUM WHETHER OR NOT SHOWN). SHORT SLASHES INDICATE PHASE CONDUCTOR OR SWITCH LEG, LONG INDICATE NEUTRAL CONDUCTOR. GREEN GROUND CONDUCTOR NOT SHOWN; ALL CONDUITS REQUIRE COPPER GROUND CONDUCTOR. TWO CONDUCTORS PLUS GROUND REQUIRED, MINIMUM.
- CONDUIT AND WIRE CONCEALED IN FLOOR SLAB OR UNDERGROUND.
- BRANCH CIRCUIT PANELBOARD AS NOTED; SEE PANEL SCHEDULES
- DISCONNECT SWITCH SIZE PER EQUIPMENT NAME PLATE OR AS NOTED: FOR DISCONNECTS SERVING MOTOR LOADS OF 10HP OR GREATER AND FOR ALL MOTOR LOADS SERVED THROUGH VARIABLE FREQUENCY DRIVES; PROVIDE SURGE SUPPRESSION DEVICE EQUAL TO SQ.-D. SDSA4040 OR EQUAL AT DISCONNECT.
- MOTOR CONNECTION
- MANUAL TRANSFER SWITCH OR REVERSING SWITCH

# LIGHTING FIXTURES SYMBOLS

- LED FIXTURE POLE MOUNTED SEE DETAIL
- COPPERWELD GRD. ROD
- HAND OFF REMOTE CONTROL STATION
- HAND OFF AUTO CONTROL STATION
- MOTOR STRIP HEATER

# SYSTEM SYMBOL LEGEND

- SYSTEMS CABINET AS NOTED OR MARKED.
- LIGHTNING PROTECTION AIR TERMINAL STREAMER RETARDING TYPE.
- STREAMER RETARDING AIR TERMINAL MOUNTED TO LIGHT POLE.

# SINGLE LINE DIAGRAM SYMBOLS

- VOLTMETER
- POWER FACTOR METER
- KILOWATT METER
- AMMETER
- THREE PHASE VOLT SWITCH
- THREE PHASE AMP SWITCH
- CURRENT TRANSMITTER
- KILOWATT TRANSMITTER
- POWER FACTOR TRANSMITTER
- LOCAL CONTROL PANEL
- GROUND FAULT INTERRUPTER
- WATT HOUR METER
- FUSE
- CAPACITOR
- DRAW-OUT CIRCUIT BREAKER
- MOULDED CASE CIRCUIT BREAKER
- TYPICAL STARTER CONTROL. SEE SWITCHGEAR CONTROL DIAGRAMS FOR EXACT TYPE.
- ELECTRIC A.C. MOTOR, NO. INDICATES HORSEPOWER.
- ELECTRIC D.C. MOTOR, NO. INDICATES HORSEPOWER.
- SERVICE OR EQUIPMENT GROUND.
- NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED.
- NON-FUSIBLE DISCONNECT SWITCH, 30A,3P UNLESS OTHERWISE INDICATED, WITH REMOTE CONTROL STATION AS REQUIRED BY ELEMENTARY DIAGRAMS OR SPECS.
- LIGHTING PANELBOARD
- POWER PANELBOARD
- KIRK KEY INTERLOCK
- CURRENT TRANSFORMERS
- POTENTIAL TRANSFORMERS
- MANUAL OR AUTOMATIC TRANSFER SWITCH

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FERNANDO E. FUENTES JR. P.E. #86514

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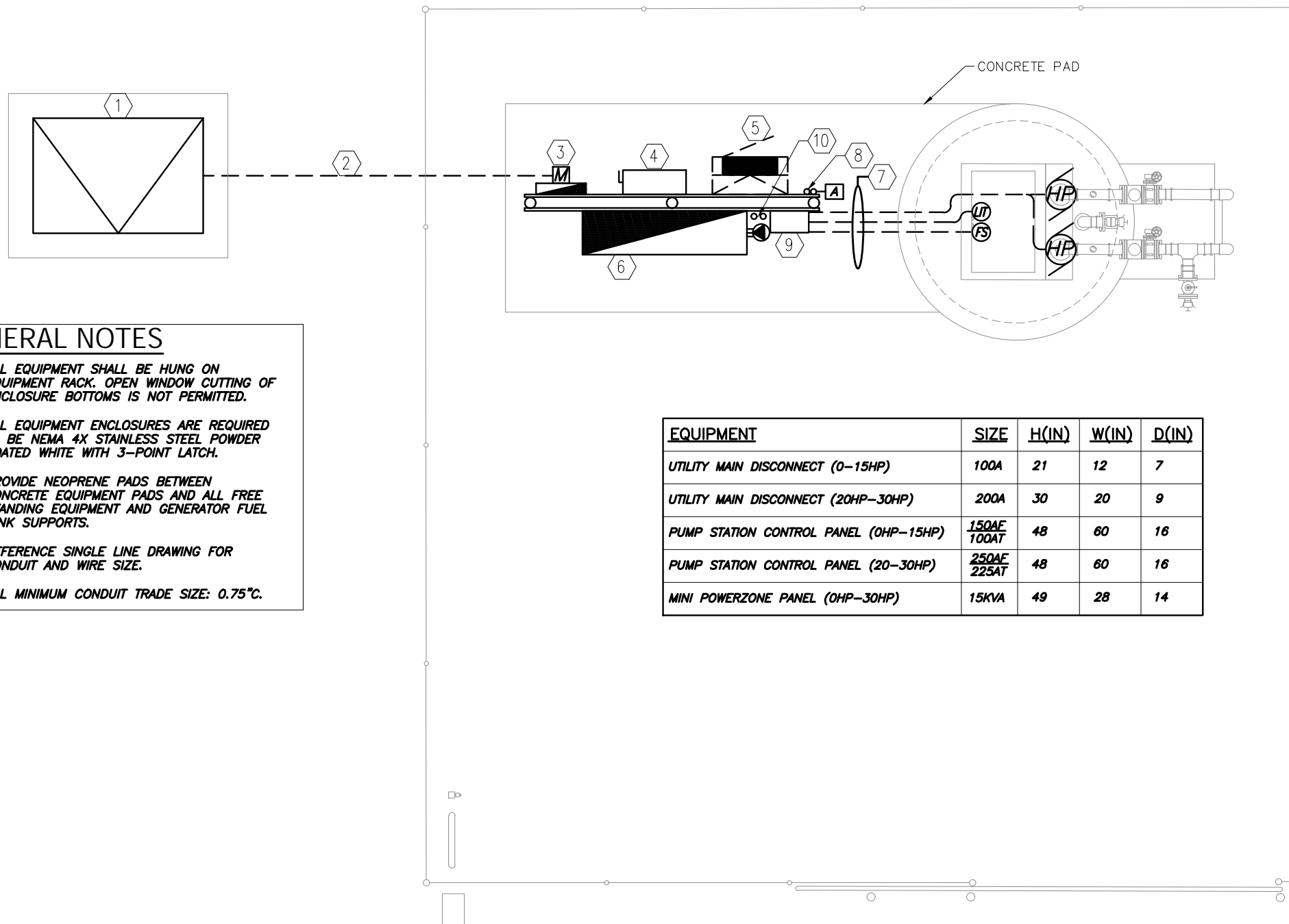
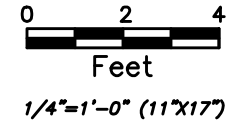
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LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARDS  
ELECTRICAL SYMBOLS LEGEND

ISSUED FOR:  
**RECORD**  
DATE: **04/2026**  
SHEET NO.: **E-3**

**MINIMUM EQUIPMENT RACK LAYOUT BASED ON THE FOLLOWING:**  
 ADJUST EQUIPMENT RATINGS AND DIMENSIONS FOR SPECIFIC PUMP STATION  
 HORSEPOWER AND SERVICE SIZE (MINIMUM 100A SERVICE SIZE). IN NO CASE  
 SHALL DIMENSIONS BE PERMITTED TO BE REDUCED IN SIZE.



**GENERAL NOTES**

- 1.) ALL EQUIPMENT SHALL BE HUNG ON EQUIPMENT RACK. OPEN WINDOW CUTTING OF ENCLOSURE BOTTOMS IS NOT PERMITTED.
- 2.) ALL EQUIPMENT ENCLOSURES ARE REQUIRED TO BE NEMA 4X STAINLESS STEEL POWDER COATED WHITE WITH 3-POINT LATCH.
- 3.) PROVIDE NEOPRENE PADS BETWEEN CONCRETE EQUIPMENT PADS AND ALL FREE STANDING EQUIPMENT AND GENERATOR FUEL TANK SUPPORTS.
- 4.) REFERENCE SINGLE LINE DRAWING FOR CONDUIT AND WIRE SIZE.
- 5.) ALL MINIMUM CONDUIT TRADE SIZE: 0.75"Ø.

| EQUIPMENT                             | SIZE           | H(IN) | W(IN) | D(IN) |
|---------------------------------------|----------------|-------|-------|-------|
| UTILITY MAIN DISCONNECT (0-15HP)      | 100A           | 21    | 12    | 7     |
| UTILITY MAIN DISCONNECT (20HP-30HP)   | 200A           | 30    | 20    | 9     |
| PUMP STATION CONTROL PANEL (0HP-15HP) | 150AE<br>100AT | 48    | 60    | 16    |
| PUMP STATION CONTROL PANEL (20-30HP)  | 250AE<br>225AT | 48    | 60    | 16    |
| MINI POWERZONE PANEL (0HP-30HP)       | 15KVA          | 49    | 28    | 14    |

**KEYNOTES**

- 1.) UTILITY PADMOUNT TRANSFORMER OR AERIAL TRANSFORMER BANK. COORDINATE SERVICE CHARACTERISTICS, EXACT LOCATION AND PRIMARY FEEDER DETAILS WITH UTILITY, PROVIDE GROUNDING, TRANSFORMER PAD AND CONDUIT ENTRY PER UTILITY REQUIREMENTS.
- 2.) UNDERGROUND SERVICE LATERAL.
- 3.) ALUMINUM DIRECT READING UTILITY METER.
- 4.) NEMA 4XSS MAIN SERVICE DISCONNECT.
- 5.) PROVIDE SPACE FOR FUTURE 120/208V 3PH-4WIRE MINI POWERZONE.
- 6.) DEP COMPLIANT, POWDER COATED WHITE, STAINLESS STEEL, PUMP CONTROL PANEL (PCP).
- 7.) (3) MINIMUM 2" CONDUITS INTO WETWELL. (2) FOR SUBMERSIBLE PUMP CABLES, (1) FOR FLOATS AND LIT CABLES. CORE DRILL NEW PENETRATIONS THROUGH WETWELL. PATCH ALL WITH HYDROCEMENT.
- 8.) DATA COLLECTOR AND MAST; INSTALL ALL CONDUIT AND WIRE AS SHOWN ON SITE, ELEMENTARY'S & SINGLE LINES.
- 9.) NEMA 4XSS JUNCTION BOX.
- 10.) (2)2" SPARES TO WETWELL.

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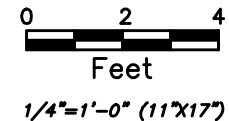
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LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARDS  
 STANDARD 480V-3Ø (0-30HP) DUPLEX PUMP STATION POWER, INSTRUMENTATION AND CONTROL PLAN

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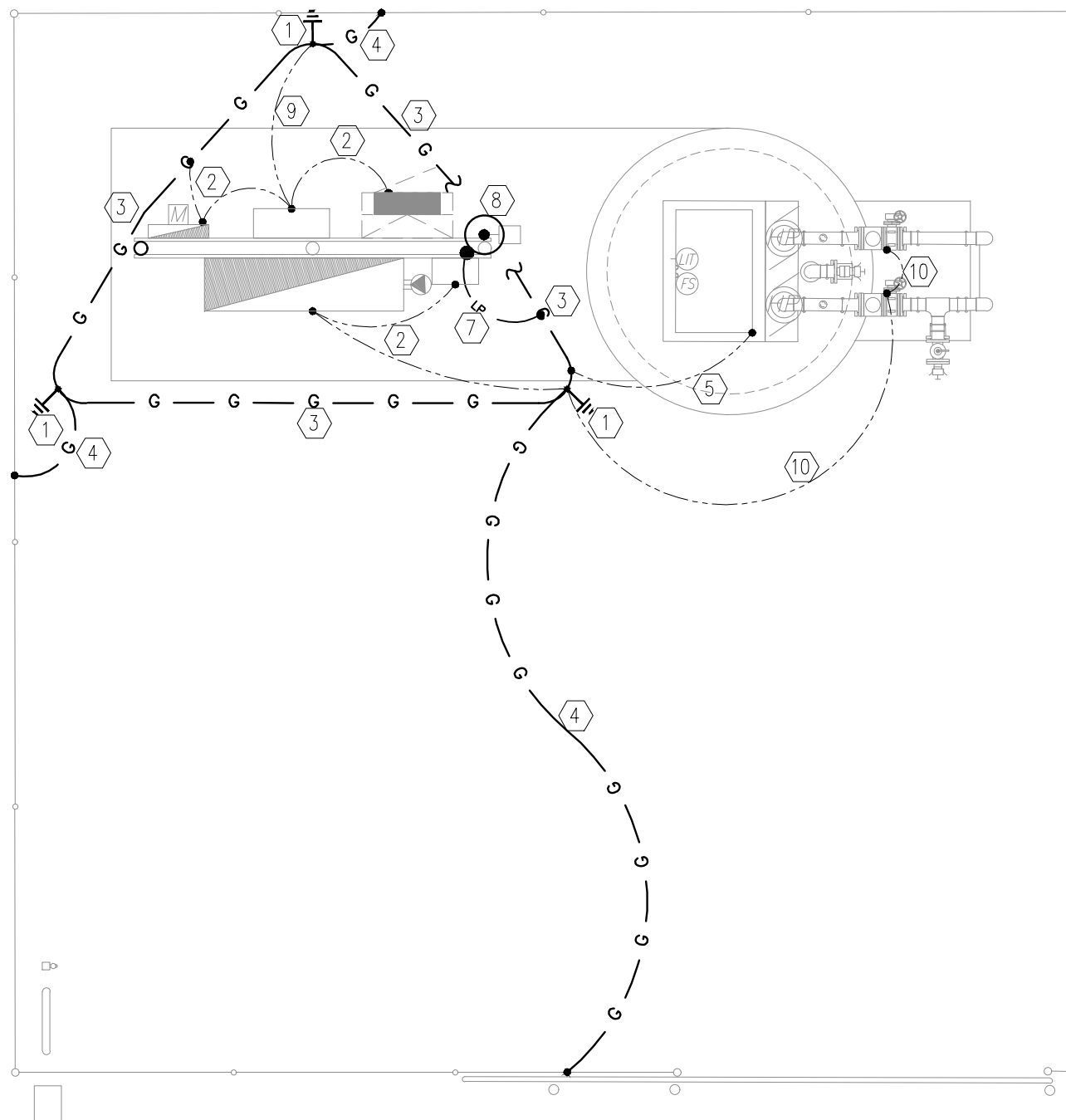


### GENERAL NOTES

- 1.) ALL U.G. CONNECTIONS TO BE VIA EXOTHERMIC WELD (CADWELD) UNLESS INDICATED OTHERWISE.
- 2.) ALL REQUIRED BONDS MAY NOT BE SHOWN; PROVIDE ADDITIONAL BONDS TO ALL DEVICES, INSTRUMENTS, CABINETS, CONTROL VALVES, ETC. AS REQUIRED TO COMPLY WITH UL AND NEC.

### KEYNOTES

- 1.) 20' DRIVEN GROUND ROD WITH INSPECTION TEST WELL (SEE DETAIL). TYPICAL.
- 2.) #2 TINNED SOLID COPPER BOND. TYPICAL.
- 3.) #2/0 TINNED STRANDED COPPER COUNTERPOISE LOOP GROUND. TYPICAL.
- 4.) #2/0 TINNED SOLID BARE BOND TO GROUND GRID.
- 5.) BOND TO HINGE CORNER OF HATCH FRAME. DRILL TAP AS REQUIRED.
- 6.) STREAMER RETARDING ROOF MOUNTED AIR TERMINAL. TYPICAL.
- 7.) ROOF DOWN CONDUCTOR TO GROUND GRID.
- 8.) STREAMER RETARDING LIGHT POLE MOUNTED AIR TERMINAL. TYPICAL.
- 9.) TINNED STRANDED COPPER ELECTRIC SERVICE MAIN GROUNDING ELECTRODE CONDUCTOR. SIZE PER SITE SPECIFIC SERVICE REQUIREMENTS.
- 10.) #2 TINNED SOLID COPPER BOND WHERE METALLIC DISCHARGE PIPING IS UTILIZED. OMIT FOR HDPE DISCHARGE PIPING.



### LIGHTNING PROTECTION LEGEND:

- LP — LP — MAIN ROOF/DOWN CONDUCTOR TYPICAL
- G — G — #2/0 TINNED BARE COPPER COUNTERPOISE LOOP GROUND.
- - - - #2 TINNED SOLID COPPER BOND TO EQUIPMENT/CABINETS ETC.

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LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARDS

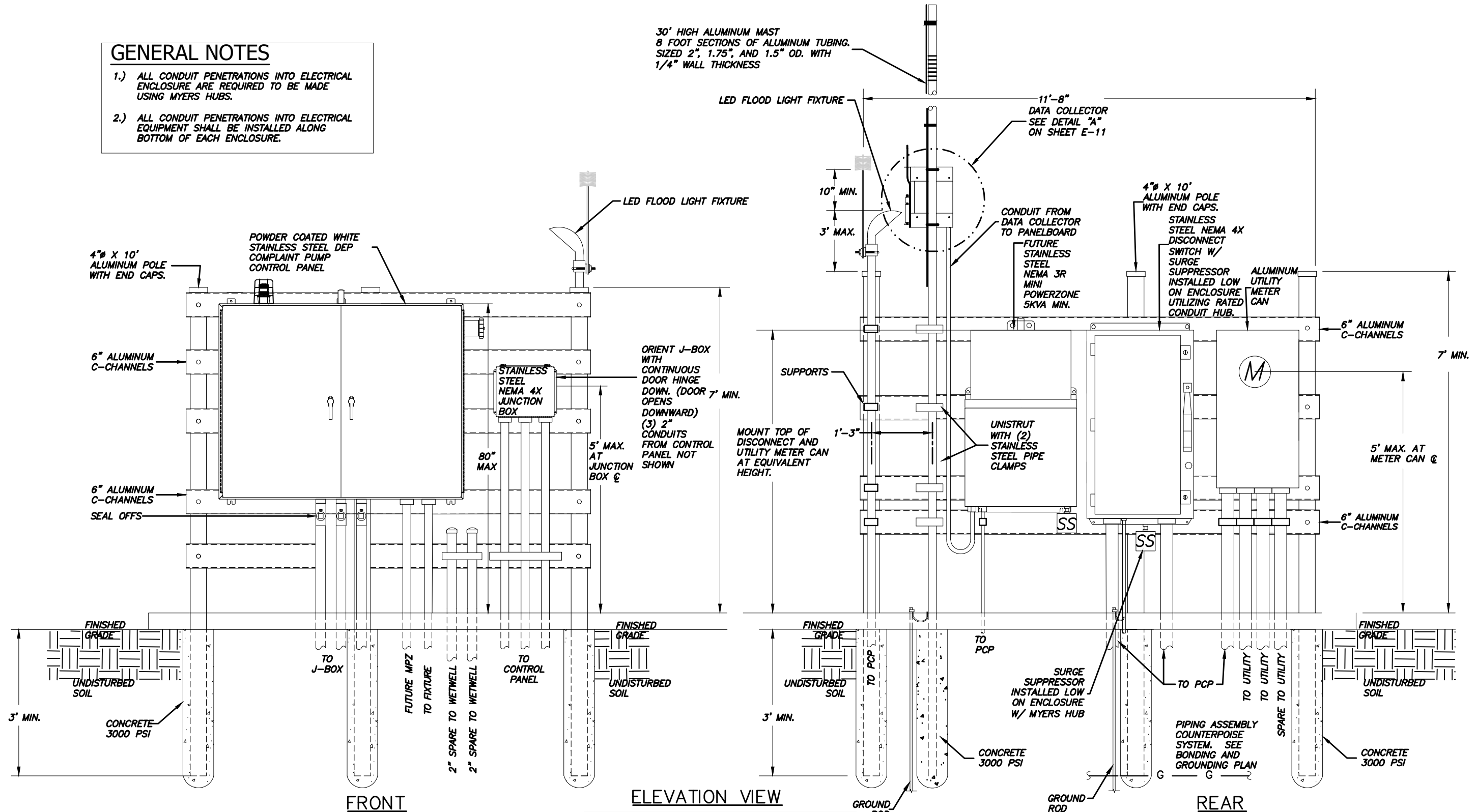
STANDARD 480V-3Ø (0-30HP) DUPLEX PUMP STATION LIGHTNING PROTECTION, BONDING & GROUNDING PLAN

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**GENERAL NOTES**

- 1.) ALL CONDUIT PENETRATIONS INTO ELECTRICAL ENCLOSURE ARE REQUIRED TO BE MADE USING MYERS HUBS.
- 2.) ALL CONDUIT PENETRATIONS INTO ELECTRICAL EQUIPMENT SHALL BE INSTALLED ALONG BOTTOM OF EACH ENCLOSURE.

30' HIGH ALUMINUM MAST  
8 FOOT SECTIONS OF ALUMINUM TUBING.  
SIZED 2", 1.75", AND 1.5" OD. WITH  
1/4" WALL THICKNESS



PROVIDE SHOP DRAWINGS FROM A FLORIDA REGISTERED PROFESSIONAL ENGINEER CERTIFYING THAT THE ALUMINUM POST FOUNDATION AND RACK MEET CURRENT FLORIDA BUILDING CODE AND WIND LOAD REQUIREMENTS.

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LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARDS  
STANDARD 480V-3Ø (0-30HP) DUPLEX PUMP STATION ELECTRICAL EQUIPMENT RACK ELEVATION

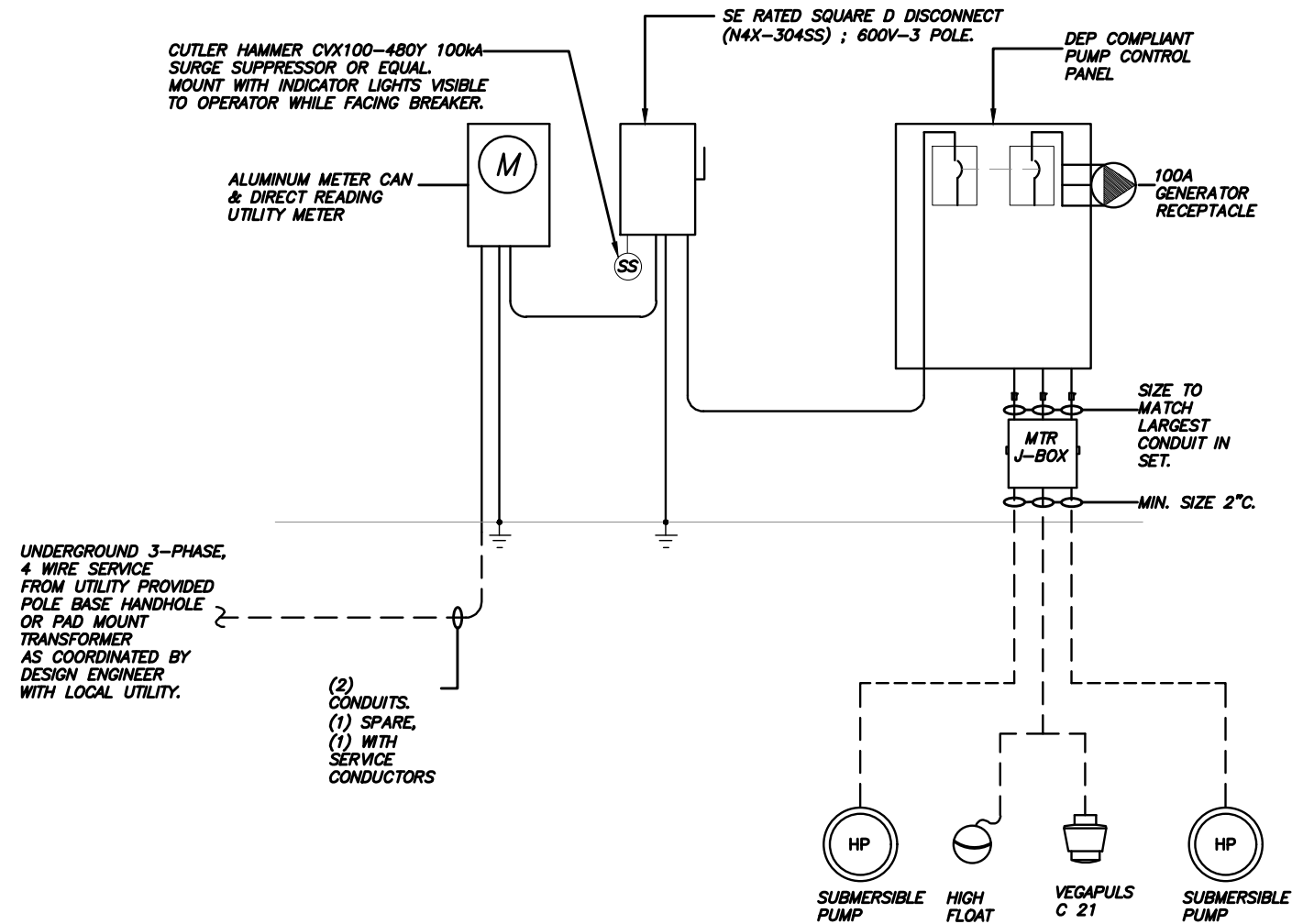
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PROVIDE MINIMUM SERVICES UTILITY SIZES AS FOLLOWS:

| SERVICE SIZE: | CONDUIT SIZE: | CONDUCTOR SIZE: | GROUND SIZE: |
|---------------|---------------|-----------------|--------------|
| 100A          | (1)2"         | (4)#3           | (1)#8        |
| 200A          | (1)2.5"       | (4)#3/0         | (1)#3        |

**GENERAL NOTES:**

- 1.) MINIMUM EQUIPMENT AIC RATINGS:  
 240V SERVICE 35,000AIC  
 480V SERVICE 65,000AIC  
 EQUIPMENT AIC RATINGS SHOWN TO ESTABLISH MINIMUM ACCEPTABLE RATING. DESIGNER TO COORDINATE REQUIRED AIC RATINGS WITH SITE SPECIFIC ELECTRICAL SERVICE CHARACTERISTICS AND IN NO CASE LOWER THEN ESTABLISHED MINIMUMS.
- 2.) THIS PLAN DOES NOT INDICATE ALL CONDUIT & WIRE REQUIRED; SEE ADDITIONAL REQUIREMENTS ON ELEMENTARY & PLAN DRAWINGS.



PANEL: FUTURE MPZ 15KVA POWER ZONE, MCB:INCLUDED VOLTAGE: 480V/208/120V,3P,4W

MOUNTING: WALL POLES: 18 25,000AIC MIN

LOCATION: EQUIPMENT RACK NEMA 3R SS ENCLOSURE

| CIR. NO. | DESCRIPTION              | TRIP | POLES | REMARKS |
|----------|--------------------------|------|-------|---------|
| 1        | SPARE                    | 20   | 1     |         |
| 2        | SPARE                    | 20   | 1     |         |
| 3        | SPARE                    | 20   | 1     |         |
| 4        | DATA COLLECTOR HUB (AMI) | 20   | 1     |         |
| 5        | SPACE                    | -    | 1     |         |
| 6        | SPACE                    | -    | 1     |         |
| 7        | SPACE                    | -    | 1     |         |
| 8        | SPACE                    | -    | 1     |         |
| 9-17     | SPACE                    | -    | 1     |         |
| 10-12    | SPACE                    | -    | 1     |         |
| 14,16,18 | SURGE SUPPRESSION        | 30   | 1     |         |

PROVIDE PANEL WITH 35KAIC RATING.  
 PROVIDE PANEL WITH EXTERNAL CUTLER HAMMER CVX100 SERIES SPD

**PANEL SCHEDULE**  
N.T.S.

GENERIC SINGLE LINE DRAWING- REVISE ACCORDINGLY TO PROVIDE SITE SPECIFIC DETAILS INCLUDING UTILITY COORDINATION, SERVICE SIZE AND GENERATOR SIZE. SIZE SERVICE, GENERATOR, CONDUIT AND WIRE PER SITE SPECIFIC WELL HORSEPOWER.

**ELECTRICAL RISER DIAGRAM (480/277V 3-PHASE)**  
N.T.S.

K:\LCU Wastewater PS Standards Update\Duplex WO Gen\480V\_3PH WO GEN\E-7.dwg Plotted: Apr 14, 2026 - 11:29am by fernandof

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 239.481.6775 | Certificate of Authorization #8212

FERNANDO E. FUENTES JR. P.E. #86514

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|     |      |             |    |

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|-------------|-----------|
| DESIGN BY:  | F.E.F.JR. |
| DRAWN BY:   | F.E.F.JR. |
| CHECKED BY: | F.E.F.JR. |
| CAD FILE:   | E-7.dwg   |



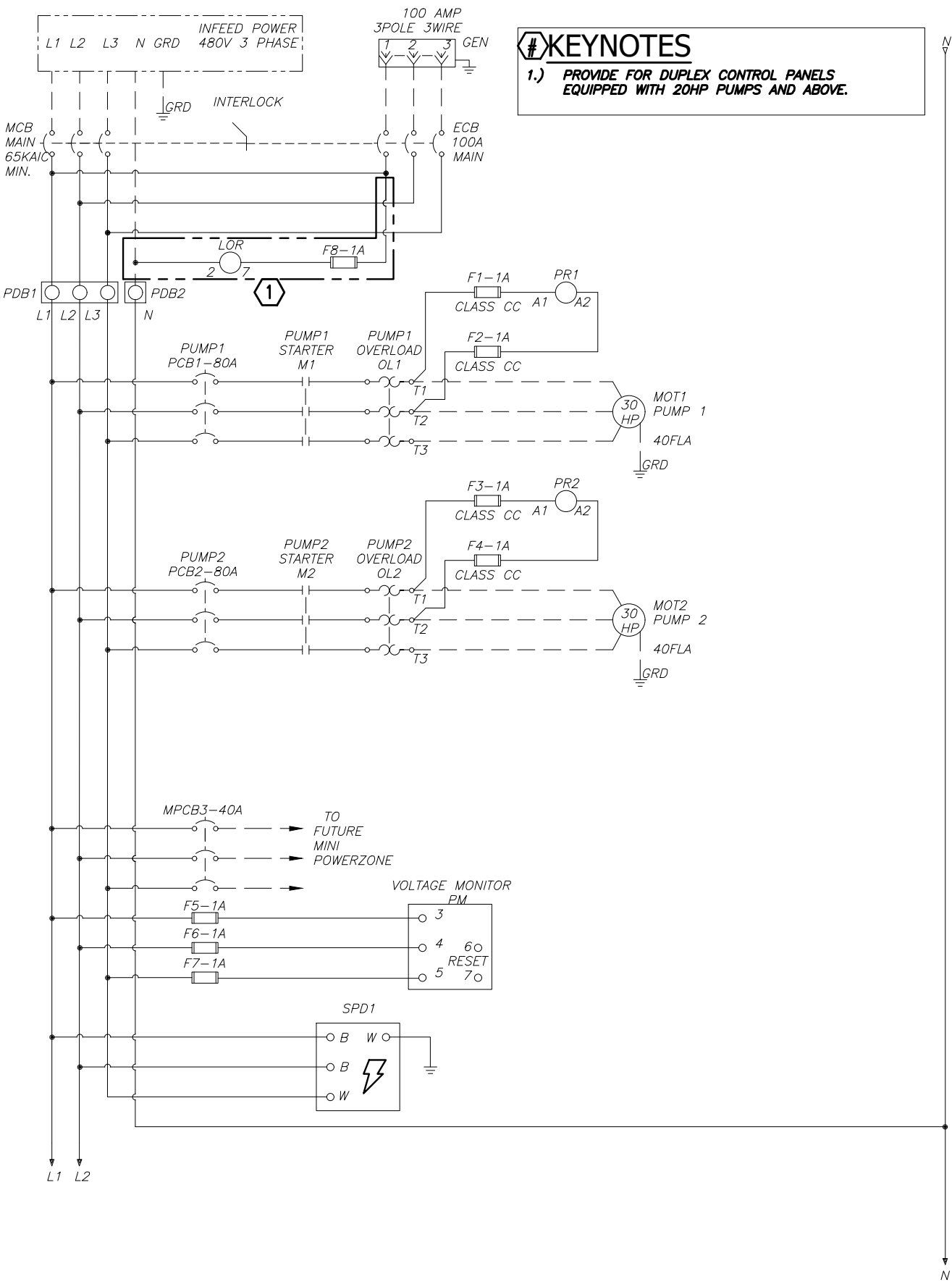
LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARDS

STANDARD 480V-3Ø (0-30HP) DUPLEX PUMP STATION ELECTRICAL RISER DIAGRAM & PANEL SCHEDULE

|             |         |
|-------------|---------|
| ISSUED FOR: | RECORD  |
| DATE:       | 04/2026 |
| SHEET NO.:  | E-7     |

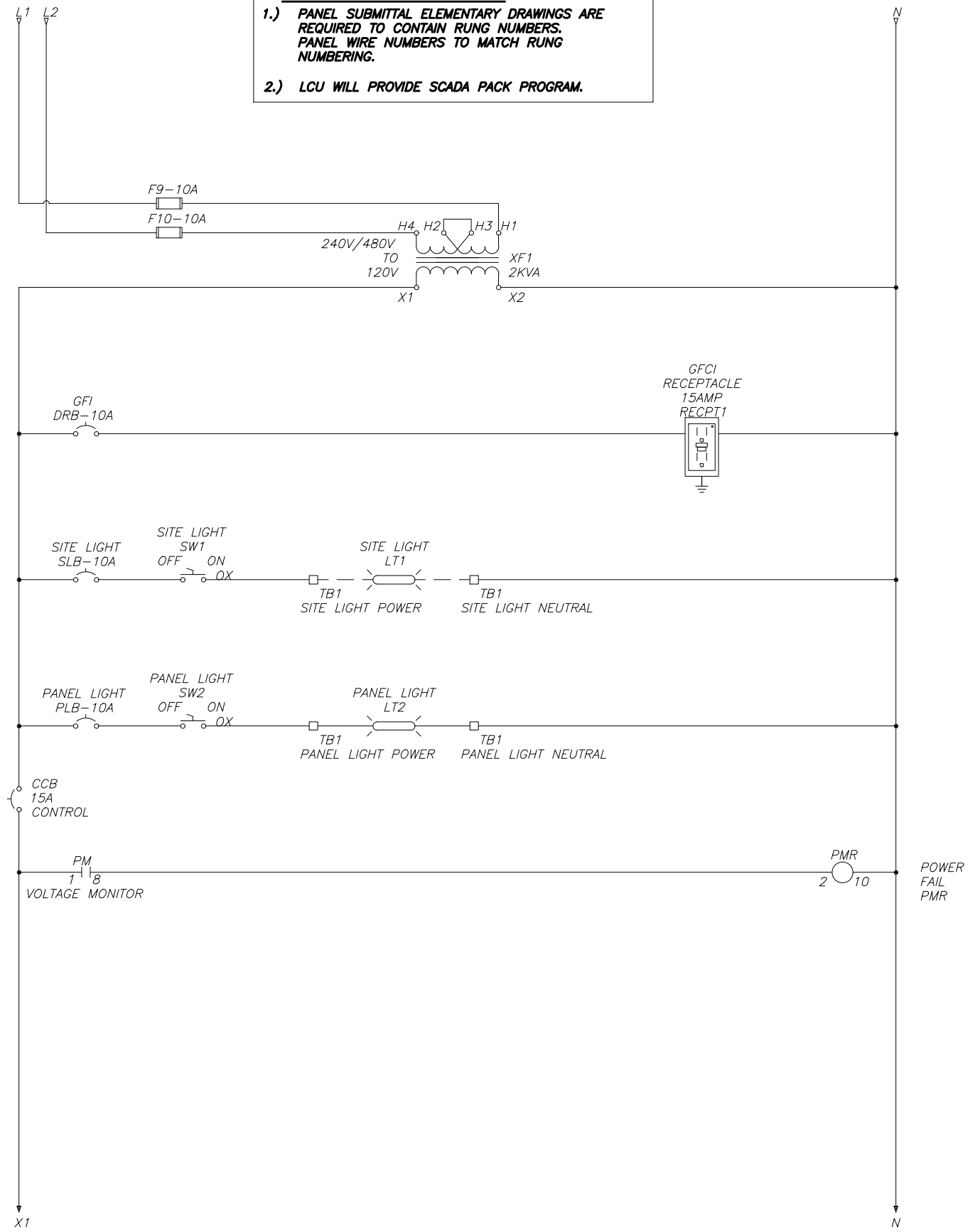


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**KEYNOTES**  
 1.) PROVIDE FOR DUPLEX CONTROL PANELS EQUIPPED WITH 20HP PUMPS AND ABOVE.

**GENERAL NOTES**  
 1.) PANEL SUBMITTAL ELEMENTARY DRAWINGS ARE REQUIRED TO CONTAIN RUNG NUMBERS. PANEL WIRE NUMBERS TO MATCH RUNG NUMBERING.  
 2.) LCU WILL PROVIDE SCADA PACK PROGRAM.



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 CHECKED BY: F.E.F.JR.  
 CAD FILE: E-9.dwg

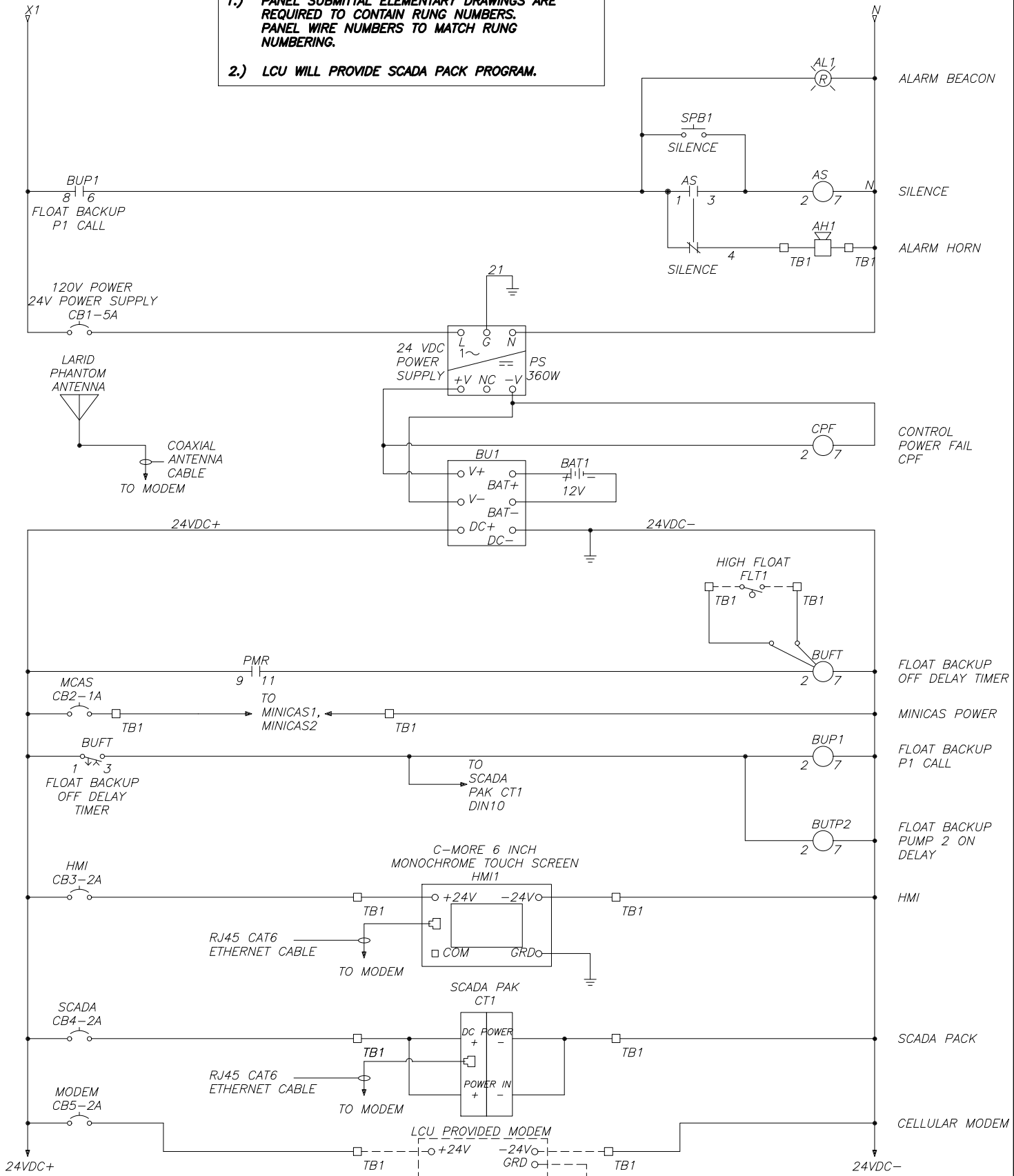
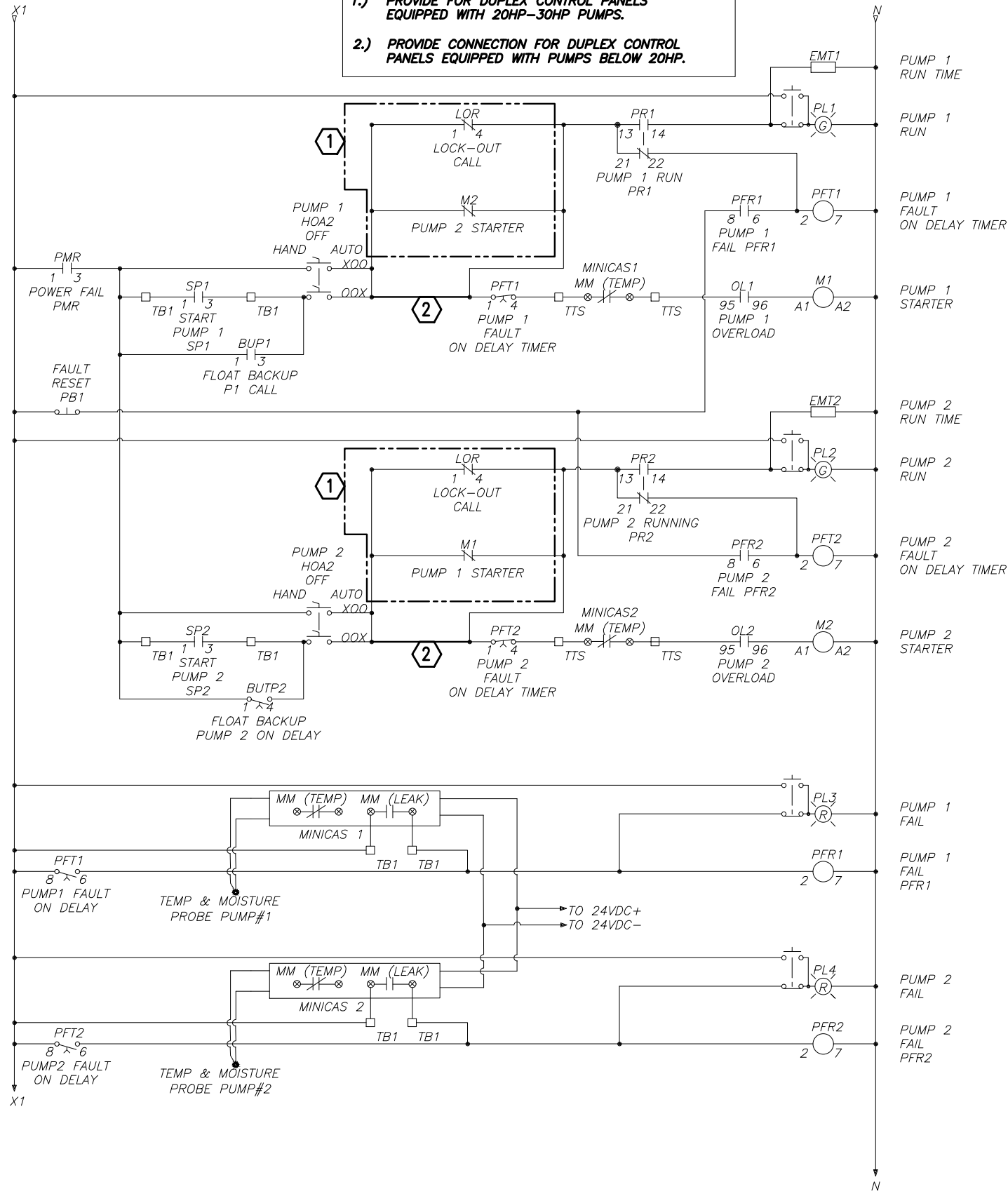


LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARDS  
 STANDARD 480V-3Ø (0-30HP) DUPLEX PUMP STATION CONTROL PANEL ELEMENTARY

ISSUED FOR:  
**RECORD**  
 DATE: **04/2026**  
 SHEET NO.: **E-9**

- KEYNOTES**
- 1.) PROVIDE FOR DUPLEX CONTROL PANELS EQUIPPED WITH 20HP-30HP PUMPS.
  - 2.) PROVIDE CONNECTION FOR DUPLEX CONTROL PANELS EQUIPPED WITH PUMPS BELOW 20HP.

- GENERAL NOTES**
- 1.) PANEL SUBMITTAL ELEMENTARY DRAWINGS ARE REQUIRED TO CONTAIN RUNG NUMBERS. PANEL WIRE NUMBERS TO MATCH RUNG NUMBERING.
  - 2.) LCU WILL PROVIDE SCADA PACK PROGRAM.



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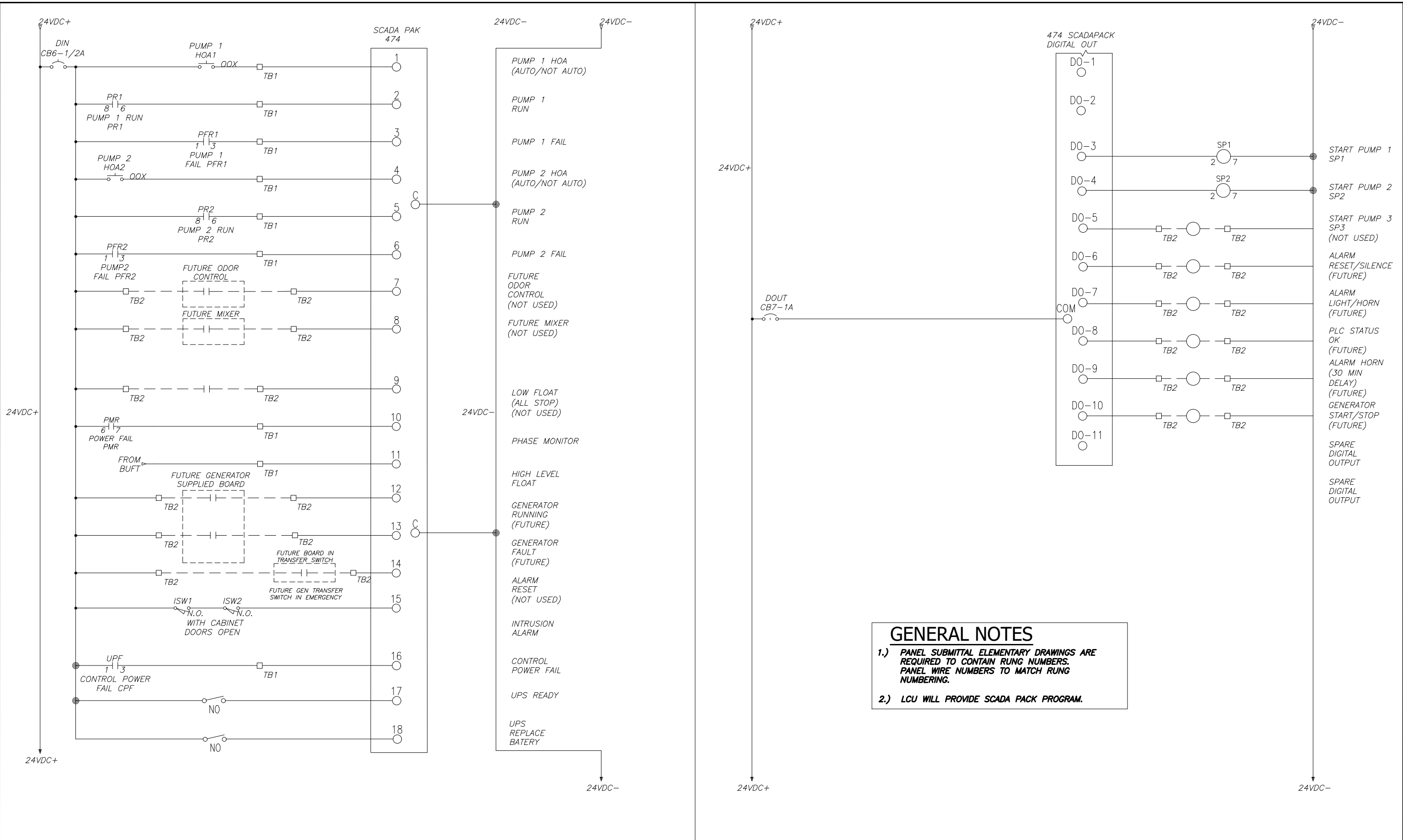
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LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARDS  
 STANDARD 480V-3Ø (0-30HP) DUPLEX PUMP STATION CONTROL PANEL ELEMENTARY



**GENERAL NOTES**

- 1.) PANEL SUBMITTAL ELEMENTARY DRAWINGS ARE REQUIRED TO CONTAIN RUNG NUMBERS. PANEL WIRE NUMBERS TO MATCH RUNG NUMBERING.
- 2.) LCU WILL PROVIDE SCADA PACK PROGRAM.

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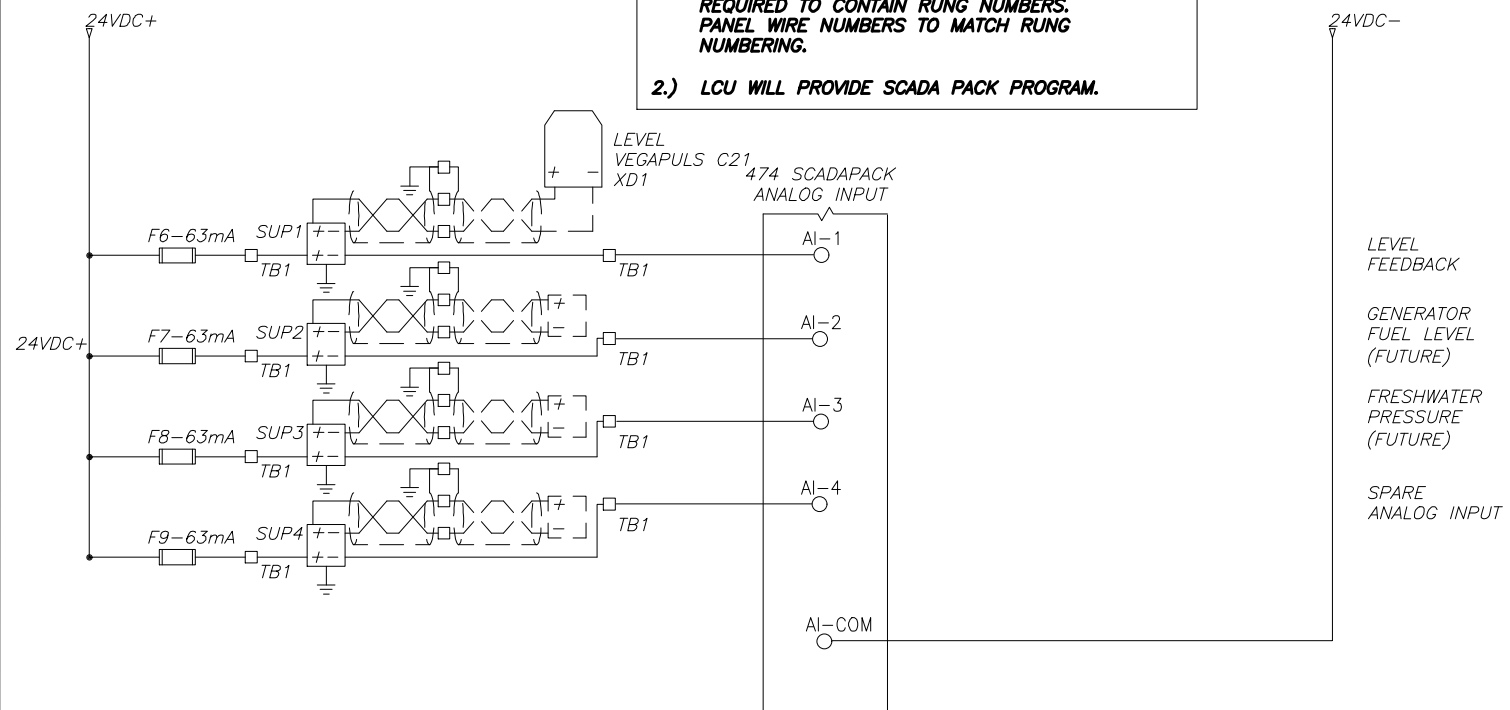


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 DATE: **04/2026**  
 SHEET NO.: **E-11**

LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARDS  
 STANDARD 480V-3Ø (0-30HP) DUPLEX PUMP STATION CONTROL PANEL ELEMENTARY

## GENERAL NOTES

- 1.) PANEL SUBMITTAL ELEMENTARY DRAWINGS ARE REQUIRED TO CONTAIN RUNG NUMBERS. PANEL WIRE NUMBERS TO MATCH RUNG NUMBERING.
- 2.) LCU WILL PROVIDE SCADA PACK PROGRAM.



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| DRAWN BY: F.E.F.JR.   |
| CHECKED BY: F.E.F.JR. |
| CAD FILE: E-12.dwg    |



LEE COUNTY UTILITIES WASTEWATER PUMP  
STATION STANDARDS  
STANDARD 480V-3Ø (0-30HP) DUPLEX PUMP  
STATION CONTROL PANEL ELEMENTARY

ISSUED FOR:  
**RECORD**  
DATE: **04/2026**  
SHEET NO.: **E-12**

IDEAL TERMINAL STRIPS #ITB-300 RATED AT 30A. REPLACE ALL SCREWS W/ STAINLESS STEEL SCREWS.

FLOAT CABLE TERMINAL STRIP

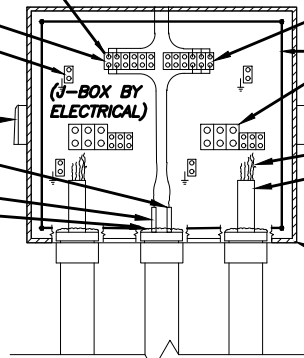
GROUND LUG

STAHLIN REBV4XKIT AIR VENT

LIT CABLES (TYP)

FLOAT CABLES (TYP)

DUCT SEAL AND APPLY THIN LAYER OF CHICCO



LIT CABLE TERMINAL STRIP

ALUMINUM BACK PLATE

PUMP CABLE POWER DISTRIBUTION BLOCKS SQ-D#LBA-361101 (3) BLOCK STRIP PER PUMP

STAHLIN REBV4XKIT AIR VENT

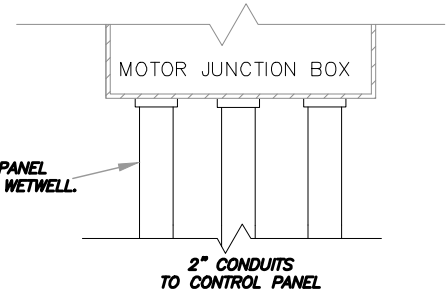
CONDUCTORS TO TERMINAL STRIPS

PUMP CABLE

14"x12"x8"D STAINLESS STEEL J-BOX HINGED AT BOTTOM

(3) 2" CONDUITS TO WETWELL IN FRONT OF CONTROL PANEL CONDUIT

DUPLEX JUNCTION BOX N.T.S.



(3) 2" C. TO CONTROL PANEL BEHIND CONDUITS TO WETWELL.

2" CONDUITS TO CONTROL PANEL

DUPLEX JUNCTION BOX AND TERMINAL STRIP INSTALLATION DETAIL N.T.S.

IDEAL TERMINAL STRIPS #ITB-300 RATED AT 30A. REPLACE ALL SCREWS W/ STAINLESS STEEL SCREWS.

FLOAT CABLE TERMINAL STRIP

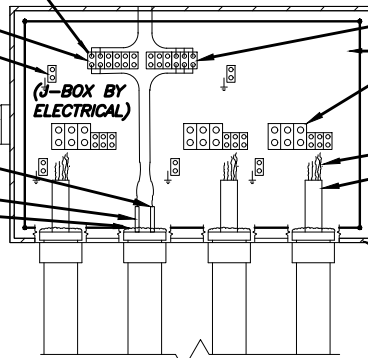
GROUND LUG

STAHLIN REBV4XKIT AIR VENT

LIT CABLES (TYP)

FLOAT CABLES (TYP)

DUCT SEAL AND APPLY THIN LAYER OF CHICCO



LIT CABLE TERMINAL STRIP

ALUMINUM BACK PLATE

PUMP CABLE POWER DISTRIBUTION BLOCKS SQ-D#LBA-361101 (3) BLOCK STRIP PER PUMP

STAHLIN REBV4XKIT AIR VENT

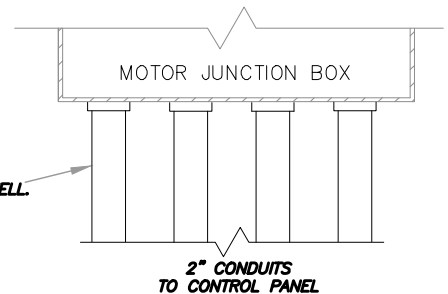
CONDUCTORS TO TERMINAL STRIPS

PUMP CABLE

16"x14"x8"D STAINLESS STEEL J-BOX HINGED AT BOTTOM

2" CONDUITS TO WETWELL.

TRIPLEX JUNCTION BOX N.T.S.



(4) 2" C. TO CONTROL PANEL BEHIND CONDUITS TO WETWELL.

2" CONDUITS TO CONTROL PANEL

TRIPLEX JUNCTION BOX AND TERMINAL STRIP INSTALLATION DETAIL N.T.S.

DATE: APRIL 2026



ELECTRICAL \* INSTRUMENTATION \* CONTROL DESIGN

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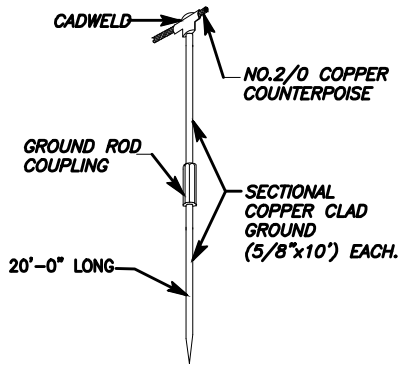
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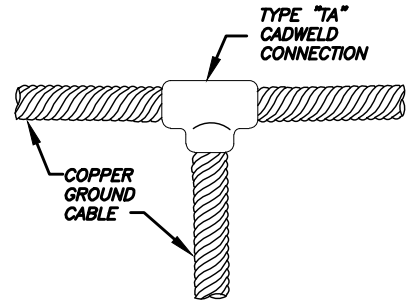
LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARD

JUNCTION BOX & TERMINAL STRIP INSTALLATION AT CONTROL PANEL LOCATION

ES-1

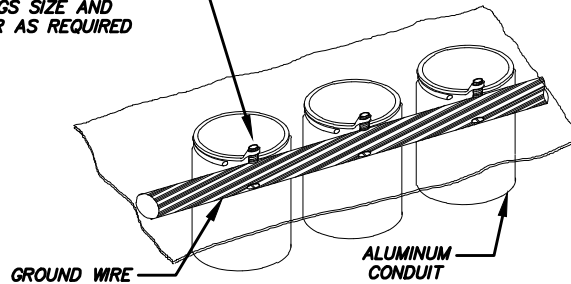


**TYPICAL GROUND ROD CONNECTION DETAIL**  
N.T.S



**GROUND CABLE CONNECTION**  
N.T.S

CONDUIT SHALL BE GROUNDED WITH INSULATED GROUNDING BUSHINGS SIZE AND NUMBER AS REQUIRED



**PANEL CONDUIT GROUNDING DETAIL**  
N.T.S

DATE: APRIL 2026

LEE COUNTY UTILITIES WASTEWATER  
PUMP STATION STANDARD

GROUNDING DETAILS

ES-2

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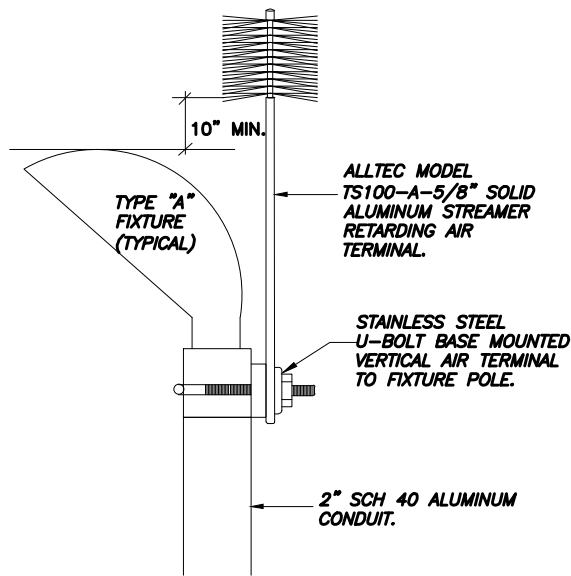
ELECTRICAL\*INSTRUMENTATION\*CONTROL DESIGN

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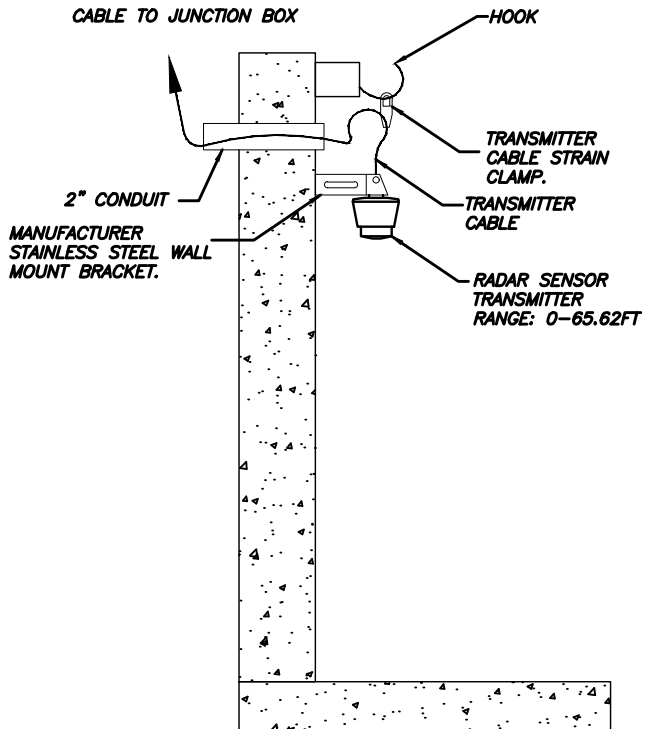
Date: \_\_\_\_\_  
 FERNANDO E. FUENTES JR. P.E. #88514



LEE COUNTY UTILITIES WASTEWATER  
 PUMP STATION STANDARD

STREAMER RETARDING AIR  
 TERMINAL FIXTURE POLE  
 MOUNTED

ES-3



DATE: APRIL 2026

LEE COUNTY UTILITIES WASTEWATER  
PUMP STATION STANDARD

LEVEL TRANSMITTER  
DETAIL

ES-4

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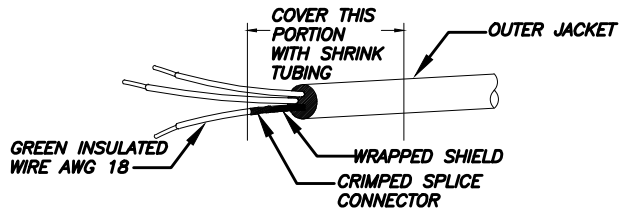
ELECTRICAL\*INSTRUMENTATION\*CONTROL DESIGN

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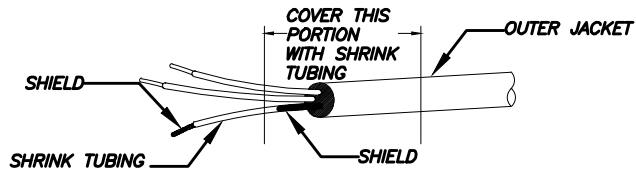
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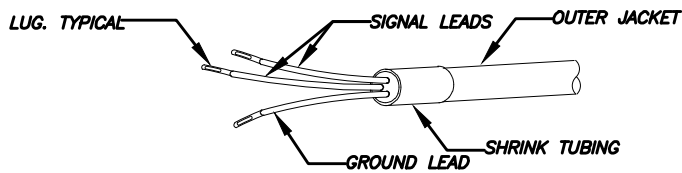




DIGITAL SIGNAL CABLE STRIPPING



ANALOG SIGNAL CABLE STRIPPING



NOTE: SHIELD GROUNDED AT TERMINATION

SIGNAL CABLE SHRINK TUBING

DATE: APRIL 2026

LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARD

TERMINATION OF SHIELDED INSTRUMENT CONTROL CABLE DETAIL

ES-5

**RIG CONSULTING ENGINEERS**

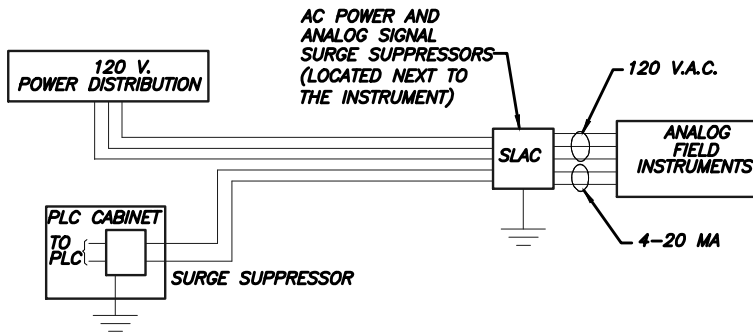
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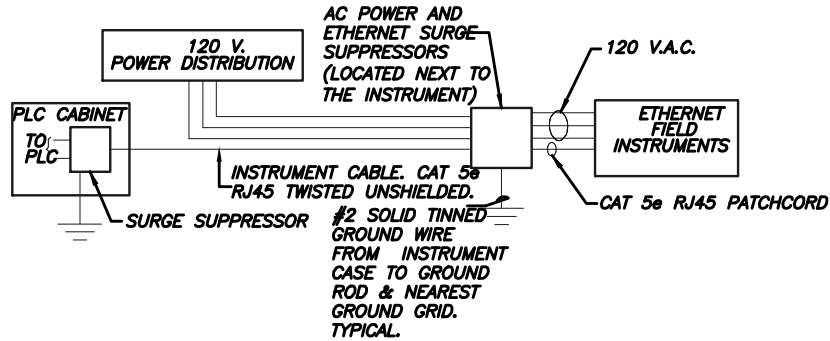
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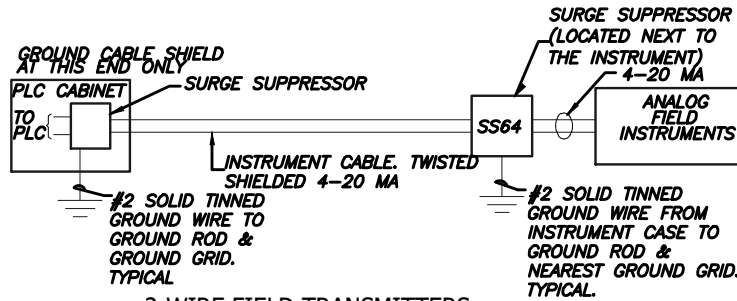




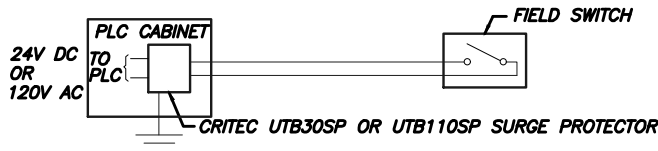
**4-WIRE FIELD TRANSMITTERS**  
N.T.S.



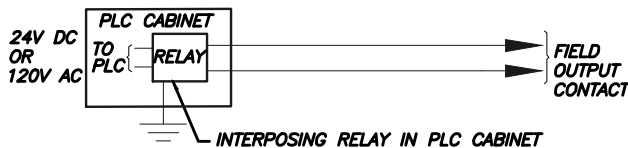
**ETHERNET FIELD TRANSMITTERS**  
N.T.S.



**2-WIRE FIELD TRANSMITTERS**  
N.T.S.



**DISCRETE PLC/INPUT CIRCUIT**  
N.T.S.



**DISCRETE PLC/OUTPUT CIRCUIT**  
N.T.S.

DATE: APRIL 2026



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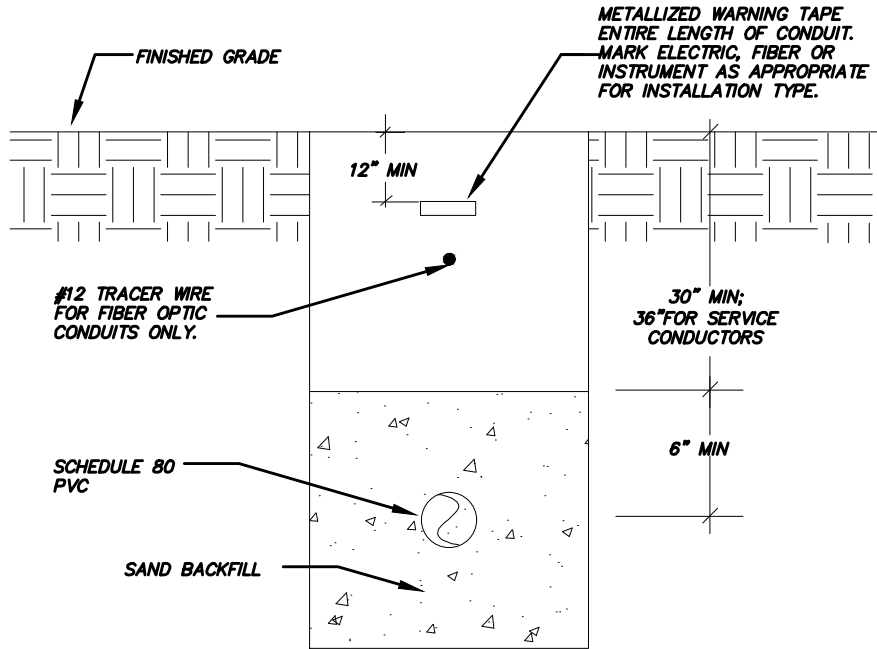


Date: \_\_\_\_\_  
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LEE COUNTY UTILITIES WASTEWATER  
PUMP STATION STANDARD

INSTRUMENTATION  
GROUNDING & SURGE  
PROTECTION DETAIL

ES-6



DATE: APRIL 2026

LEE COUNTY UTILITIES WASTEWATER  
PUMP STATION STANDARD

UNDERGROUND CONDUIT  
INSTALLATION DETAIL

ES-7



ELECTRICAL\*INSTRUMENTATION\*CONTROL DESIGN

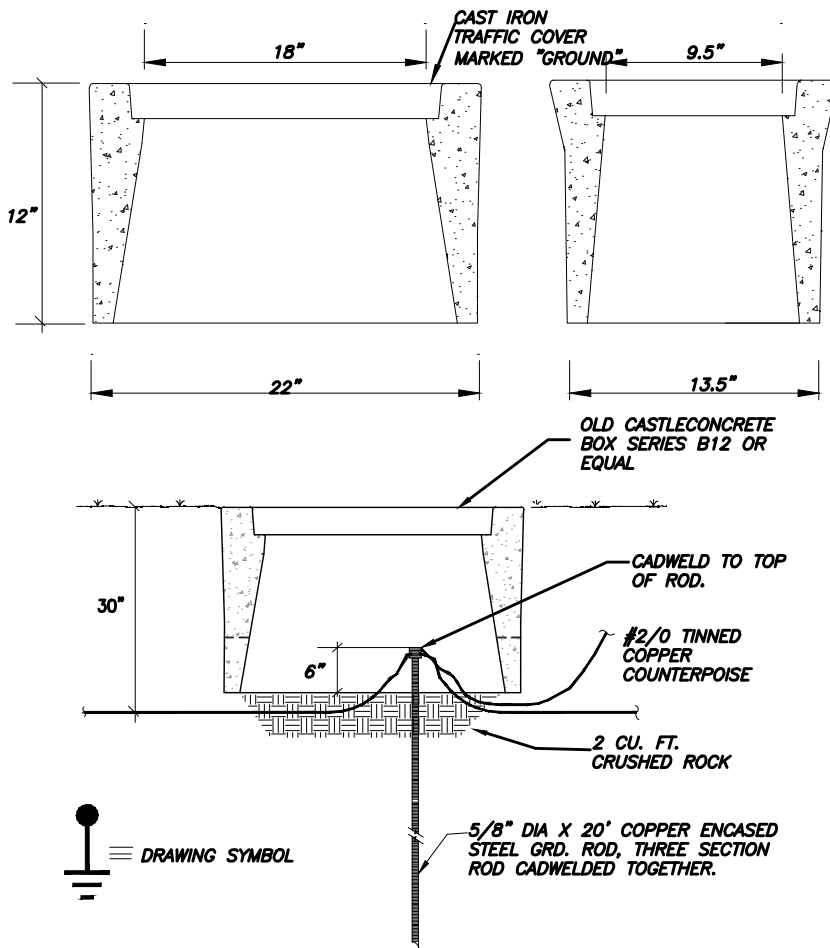
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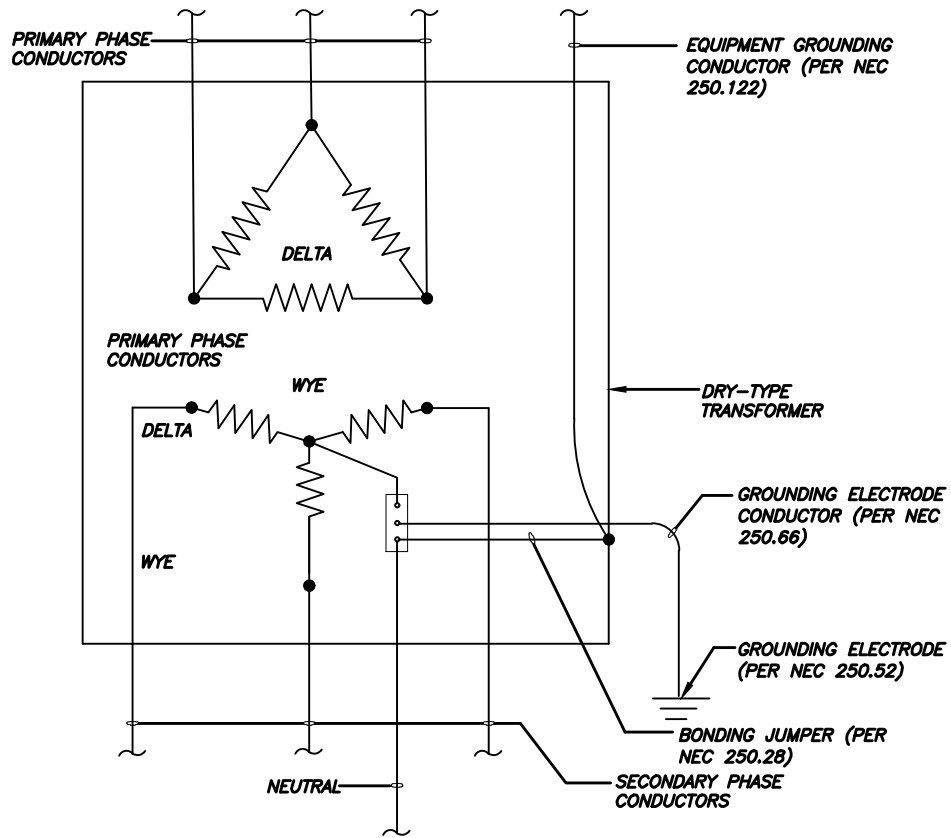


LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARD

GROUND ROD INSTALLATION DETAIL

ES-8

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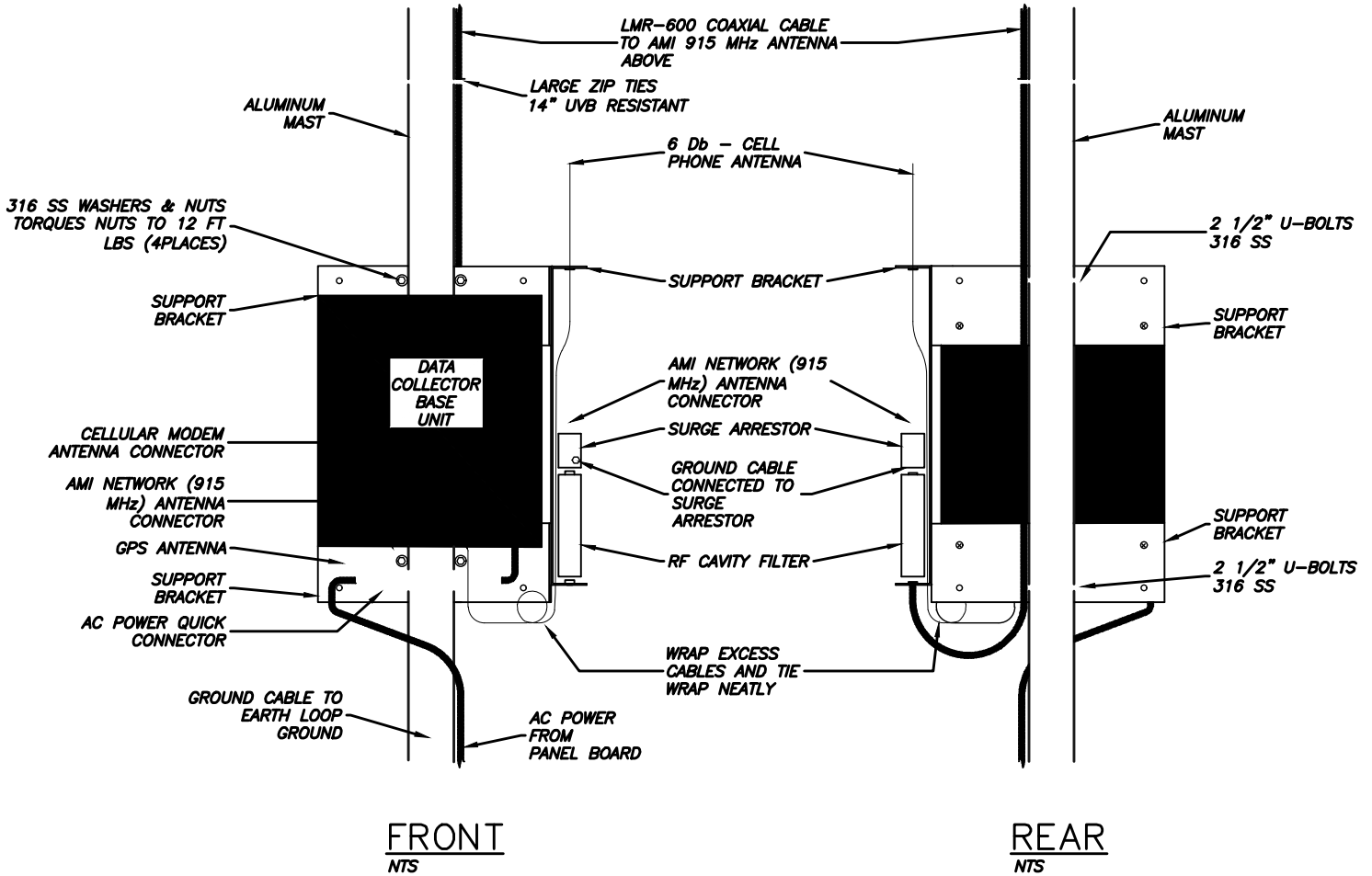
LEE COUNTY UTILITIES WASTEWATER PUMP STATION STANDARD

STEP DOWN XFMR GROUNDING FOR 3PH 3WIRE DELTA PRIMARY, 3PH 4WIRE WYE SECONDARY

ES-9

## GENERAL NOTES

- 1.) ALL CONNECTORS TO BE WRAPPED WITH MASTIC AND TAPE.



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LEE COUNTY UTILITIES WASTEWATER  
PUMP STATION STANDARD

DATA COLLECTOR  
INSTALLATION DETAIL "A"

ES-10