

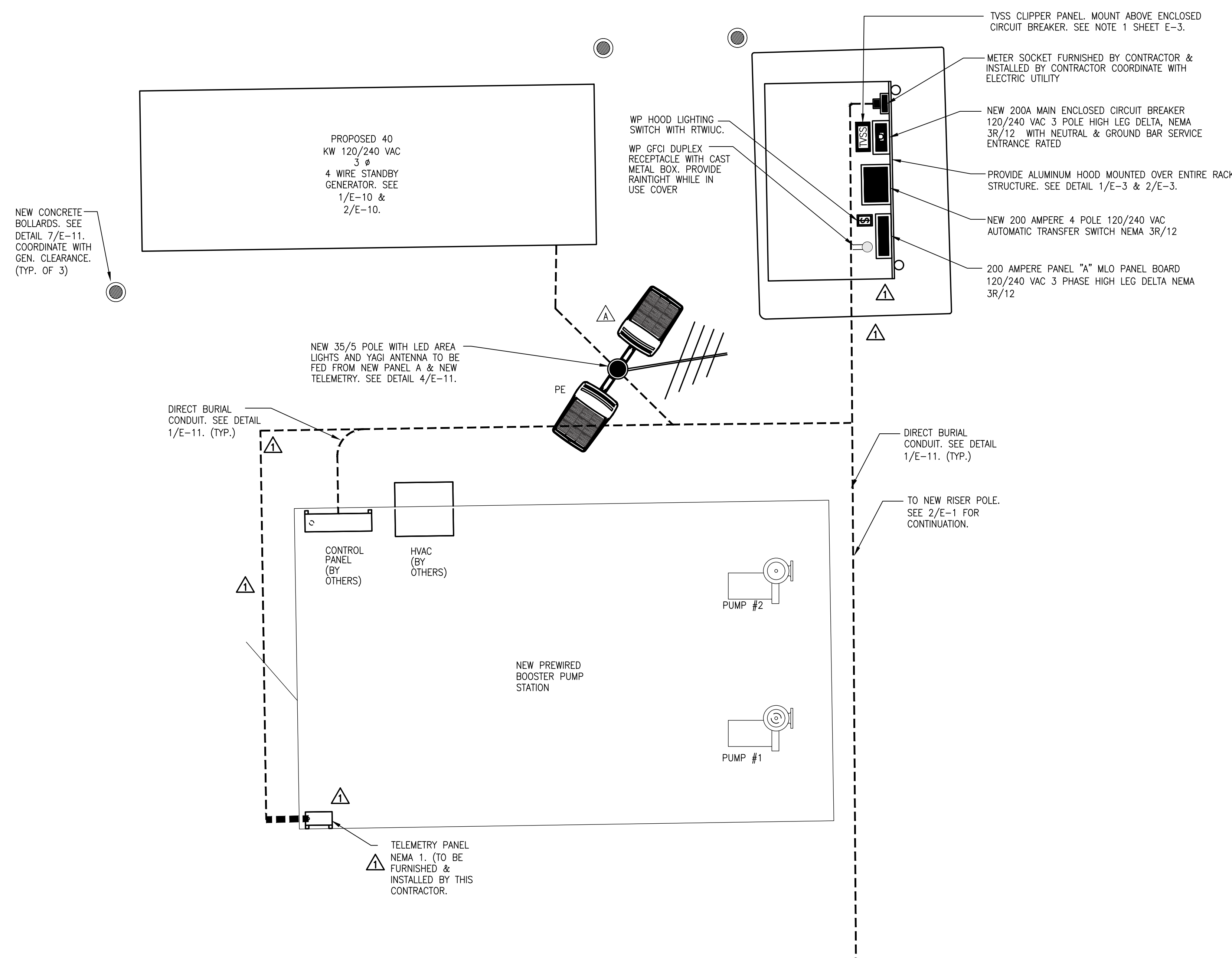
**GENERAL ELECTRICAL NOTES**

- ALL ELECTRICAL WORK SHALL CONFORM TO THE MOST CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE, NATIONAL ELECTRIC SAFETY CODE, OSHA, AND ALL APPLICABLE LOCAL AND STATE CODES.
- ELECTRICAL WORK SHALL BEGIN AT THE STUB OUT FOR UTILITY POWER SERVICE ENTRANCE INTO THE RACK. CONTRACTOR SHALL COORDINATE & PAY ALL DOMINION POWER CHARGES FOR NEW SERVICE ENTRANCE.
- DIRECT BURIAL CONDUIT SHALL BE SCHEDULE 40 PVC INSTALLED PER SPECIFICATIONS. TRANSITION TO SCH 80 PVC PRIOR TO TURNING UP ABOVE GRADE. ALL EXTERIOR CONDUIT ABOVE GRADE SHALL BE SCH 80 PVC UNLESS NOTED OTHERWISE. EXTERIOR CONDUITS TO HAVE EXPANSION COUPLINGS EVERY 15 FT.
- ALL GROUNDING SHALL BE IN ACCORDANCE WITH THE MOST CURRENT NATIONAL ELECTRIC CODE INCLUDING AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUIT RUNS. GROUND & BOND ALL METALLIC BOXES.
- REFER TO CIVIL DRAWINGS FOR ACTUAL STRUCTURE SIZES, DIMENSIONS, AND LAYOUTS.
- REFER TO CIVIL DRAWINGS FOR UNDERGROUND PIPING LAYOUT. AVOID CROSSINGS OR CONFLICTS AS MUCH AS POSSIBLE. WHERE UNAVOIDABLE, ROUTE DUCT BANK UNDER PIPING PROVIDING PROPER SEPARATION AND BACKFILL. REFER TO CIVIL SITE PLAN.
- ALL EXTERIOR MOUNTING HARDWARE SHALL BE 304 STAINLESS STEEL OR CAST METAL CORROSION RESISTANT. ALL BRACKETS, CHANNELS, OR PIPE TO BE STAINLESS STEEL.
- VOLTAGE AT SITE TO BE 120/240 VAC 3 PHASE 4 WIRE HIGH LEG DELTA.
- REVISE AND COORDINATE SPACE REQUIREMENTS AS NECESSARY TO SUIT EQUIPMENT ACTUALLY USED. NEW EQUIPMENT TO BE MOUNTED MAXIMUM 6 FT. 6 INCHES AFF.
- ENCLOSED CIRCUIT BREAKER INTERRUPTING RATINGS SHALL BE AS FOLLOWS:
  - UP TO 100 AMPERES 230 VAC 10,000
  - 100-200 AMPERES 230 VAC 25,000 AIC
- VERIFY LUGS IN ALL SAFETY SWITCHES, STARTER AND DEVICES FOR PROPER COORDINATION WITH CONDUIT AND CABLE SCHEDULES. PROVIDE ADAPTER LUGS OR OVERSIZE LUGS IF NECESSARY.
- PROVIDE TERMINAL STRIP FOR ALL SPLICES THAT ARE MADE IN ALL JUNCTION BOXES. MANUFACTURERS PUMP POWER & CONTROL CABLES SHALL BE CONTINUOUS, NO SPLICING.
- ELECTRICAL CONTRACTOR TO PROVIDE OVERSIZED STAINLESS STEEL JUNCTION BOXES ON MOTORS TO ADAPT TO FIT CONDUCTORS SPECIFIED IF NECESSARY.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION, EXACT CONFIGURATION AND REQUIREMENTS OF INSTRUMENTS AND EQUIPMENT BEING FURNISHED BY THE GENERAL CONTRACTOR AND THE OTHER CONTRACTORS PRIOR TO RUNNING ANY WIRING. VERIFY CONDUIT SIZE REQUIREMENT FOR CONNECTION TO INSTRUMENTS AND ADJUST INCOMING CONDUIT TO FIT REQUIREMENTS. LOCATION SHOWN FOR INSTRUMENTS, RTU'S AND CONTROL PANELS IS ONLY APPROXIMATE. THE OWNER HAS THE PREROGATIVE TO MOVE ANY OF THESE ITEMS ANYWHERE ON THE BUILDING AT NO EXTRA CHARGE IF IT IS DONE PRIOR TO RUNNING CONDUIT.
- ALL WIRE TO BE COPPER. ALL INSULATION TO BE THHN/THWN.
- MAINTAIN SEPARATION AND ISOLATE NEUTRAL AND EQUIPMENT GROUNDING CONDUCTORS BEYOND SERVICE ENTRANCE. BOND & GROUND NEW ELECTRICAL SERVICES TO THE SAME GROUND POTENTIAL. GROUND & BOND ALL METAL BOXES.
- VERIFY AND LABEL NEW PANELBOARD CIRCUITS WITH SPECIFIC AREA DESIGNATION.
- ALL LANDSCAPING DAMAGED DURING CONSTRUCTION MUST BE RESTORED BACK TO ORIGINAL CONDITION BY A LICENSED LANDSCAPE CONTRACTOR. GRASS MAY BE RESTORED WITH RESEEDING.
- CONTRACTOR MUST FURNISH REST ROOM FACILITIES FOR ITS PERSONNEL.
- CONTRACTOR SHALL COORDINATE & PROVIDE TELEPHONE SERVICE ENTRANCE TO EACH BPS. COORDINATE WITH LOCAL TELEPHONE SERVICE PROVIDER & PAY ALL SERVICE COSTS.

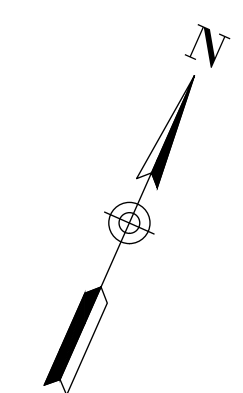
**LIGHTING FIXTURE SCHEDULE**  
(ALL NEW FIXTURES SHALL BE UL LABELED)  
(ALL FIXTURES SHALL BE SUPPLIED WITH LAMPS)

- A** DOUBLE SIDED (2) LED SHOEBOX SHARP CUTOFF LUMINAIRE. PROVIDE AS (2) LED VIPER AREA LIGHTS 4" SQUARE STRAIGHT ARM TO ATTACH TO BRACKET ARM. TYPE 4 WIDE LIGHT DISTRIBUTION. 122.1 WATTS, 15,574 LUMENS. 120 VAC 5,000K 700MA. PROVIDE SURGE PROTECTION, DARK BRONZE FINISH. PROVIDE (2) BRACKET ARMS TO ATTACH TO ROUND WOODEN POLE. USE BEACON VP MICROSTRIKE 1 160L 115 5K7 4W UNV-DB-A\_ OR EQUAL BY HUBBELL OR KIM.
- B** PROVIDE LED HOOD LIGHT 120 VAC, 30 WATTS. PROVIDE 4 FOOT LENGTH ACRYLIC LENS 6,200 LUMENS & WATER TIGHT HUBS. USE H.E. WILLIAMS 96-4-L62/830-H1AFR-WET1.
- C** SINGLE SIDED (1) LED SHOEBOX SHARP CUTOFF LUMINAIRE. PROVIDE AS (1) LED VIPER AREA LIGHTS 4" SQUARE STRAIGHT ARM TO ATTACH TO BRACKET ARM. TYPE 4 WIDE LIGHT DISTRIBUTION. 122.1 WATTS, 15,574 LUMENS. 120 VAC 5,000K 700MA. PROVIDE SURGE PROTECTION, DARK BRONZE FINISH. PROVIDE (2) BRACKET ARMS TO ATTACH TO ROUND WOODEN POLE. USE BEACON VP MICROSTRIKE 1 160L 115 5K7 4W UNV-DB-A\_ OR EQUAL BY HUBBELL OR KIM.

CONNECTED LOAD				
EQUIP.	LOAD	VOLTS/PH	KW	STARTER
PUMP #1	10 HP	230 V/3 φ	8.7 KW	VFD IN CONTROL PANEL
PUMP #2	10 HP	230 V/3 φ	8.7 KW	VFD IN CONTROL PANEL
A/C		230 V/1 φ	5.36 KW	IN BPS
MISC.			1 KW	
<b>TOTAL</b>	<b>20 HP</b>		<b>23.76 KW</b>	<b>IN CONTROL PANEL</b>



**1 SCRANTON BOOSTER PUMP STATION ENLARGED SITE PLAN**  
E-2  
3/8"=1'-0"



*Ronald E. Pledger*  
 NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER  
 SEAL C-0416  
 SEAL 11654  
 ROYAL E. PLEDGER, P.A.  
 #1676 LD6341

11/6/2025

**DP**  
 ELECTRICAL DESIGN BY:  
**DIBBLE & PLEDGER, P.A.**  
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RELEASED FOR CONSTRUCTION

REVISION	DATE	BY	DATE
ADDENDA #1 SCADA	3/19/25	REP	October 30, 2023

GRAPHIC SCALE  
 0 10 20  
 SCALE IN FEET

CLIENT CODE: XXXXX  
 JOB NUMBER: XX-XXX  
 FIELD BOOK: XXX  
 CADFILE: LD6341.dwg  
 ASCII FILE:  
 LAST MODIFIED: 30-Oct-23  
 MODIFIED BY: XXX

SHEET NO. **E-2** OF **11**

**GREEN ENGINEERING**  
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**HYDE COUNTY PUBLIC UTILITIES**  
**BOOSTER PUMP STATIONS**  
 TOWN / CITY NAME COUNTY, NORTH CAROLINA

**SCRANTON BOOSTER PUMP STATION ENLARGED PLAN**