

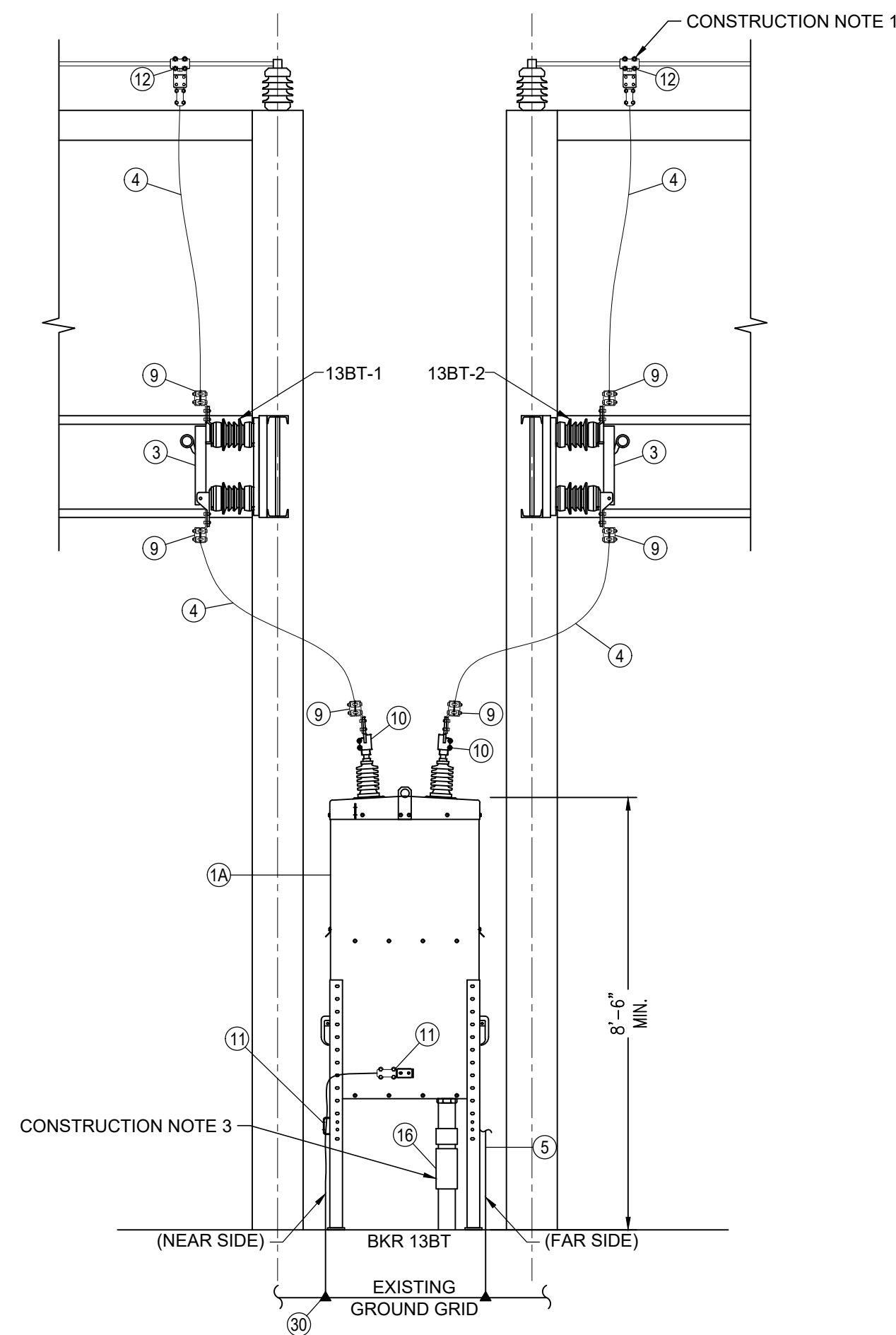
2/23/2026 2:59 PM - RYAND - N:\ACTIVE PROJECTS\25337_IPSWITCH_ELECTRIC_FOWLER'S LANE_#5_CONTROL_HOUSE\6-DRAFTING\WORKING DRAWINGS\SUBSTATION\919506-E113.DWG

NOTES:

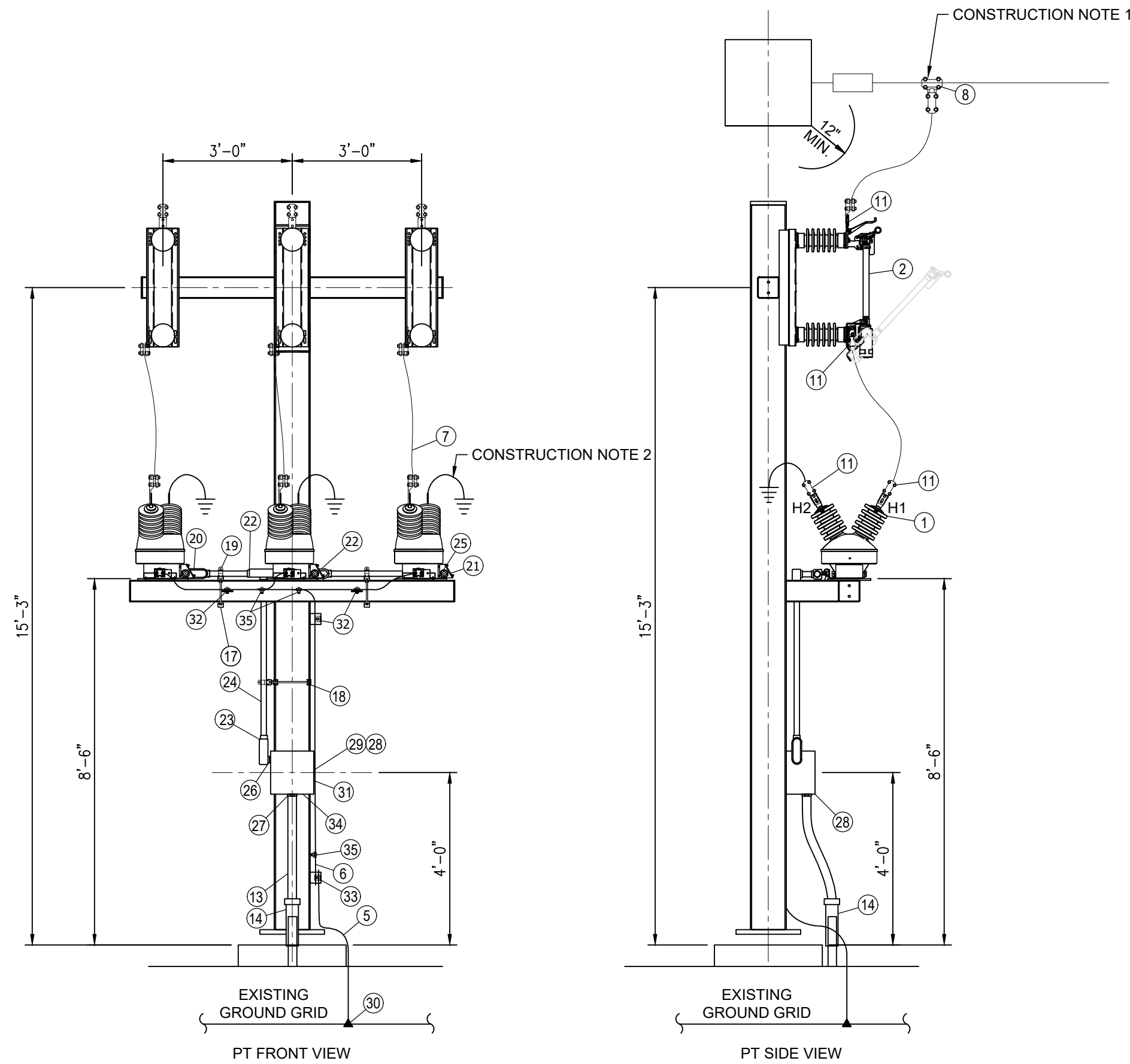
- 27 KV ELECTRICAL BUS & CONDUCTOR CLEARANCES FOR THIS INSTALLATION SHALL NOT BE LESS THAN THE FOLLOWING VALUES PER ANSI C37.32 TABLE 5:
 *PHASE - PHASE (L TO L) = 30"
 *PHASE - PHASE (METAL TO METAL) = 15"
 *PHASE - GROUND = 12"
- 15 KV ELECTRICAL BUS & CONDUCTOR CLEARANCES FOR THIS INSTALLATION SHALL NOT BE LESS THAN THE FOLLOWING VALUES PER ANSI C37.32 TABLE 5:
 *PHASE - PHASE (L TO L) = 24"
 *PHASE - PHASE (METAL TO METAL) = 12"
 *PHASE - GROUND = 10"
- WIRE CONDUCTOR MINIMUM BEND RADIUS TO BE INSTALLED AT A RADIUS NO LESS THAN:
 *250 KCMIL BARE COPPER 9"
 *4/0 AWG BARE COPPER 8"
 *1/0 AWG BARE COPPER 6"
- MINIMUM CLEARANCE ABOVE ANY PERMANENT SUPPORTING SURFACE FOR PERSONNEL TO THE LOWEST UNGROUNDED PART OF A HIGH VOLTAGE APPARATUS SHALL BE 8'-6" PER NESC RULE 124.

CONSTRUCTION NOTES:

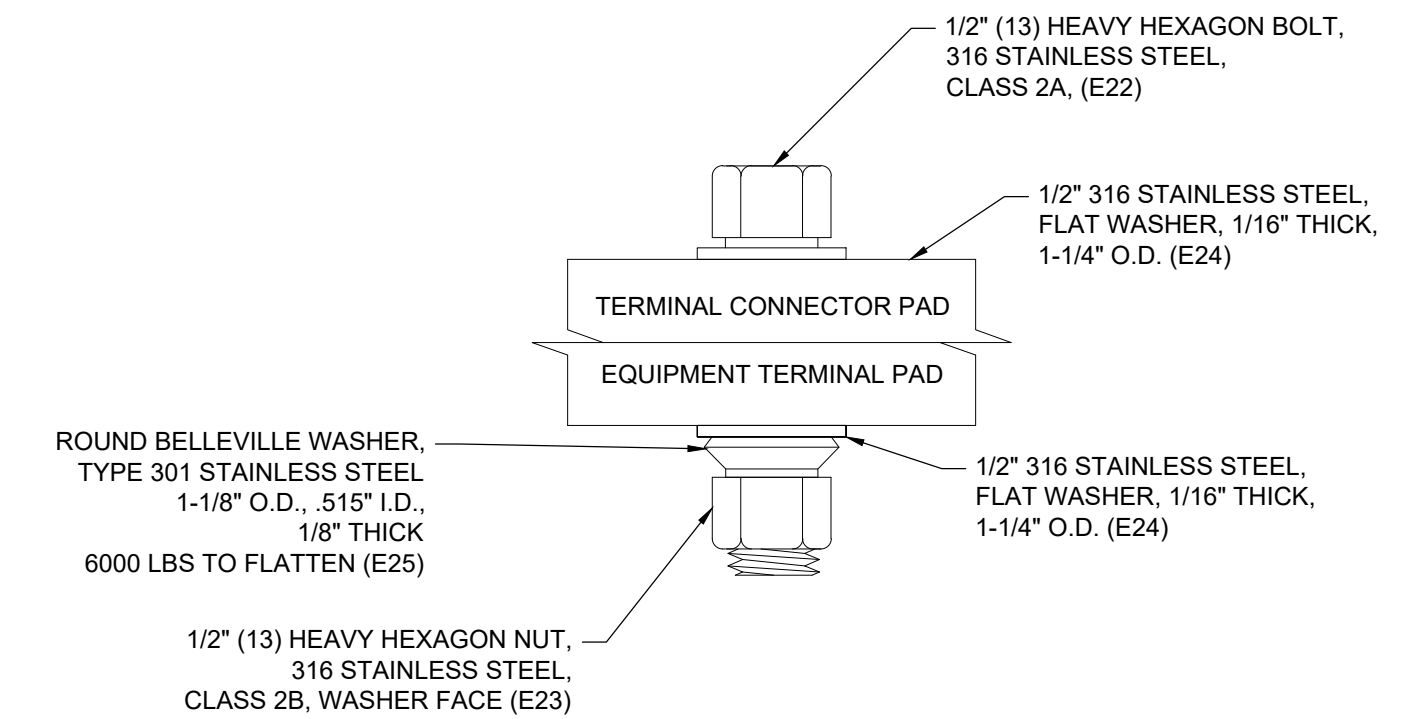
- EXISTING RIGID BUS AND STRAIN BUS SIZES WERE NOT ABLE TO BE IDENTIFIED THEREFORE THE SPECIFIED CONNECTORS SHALL BE VERIFIED IN THE FIELD BY THE CONSTRUCTOR PRIOR TO BEGINNING WORK. CONSTRUCTOR SHALL NOTIFY RLC ENGINEERING OF ANY CHANGES REQUIRED TO THE SPECIFIED CONNECTORS.
- CONTRACTOR TO BOND H2 BUSHING TO GROUND.
- RISERS ARE LOCATED ON BOTH ENDS OF THE 15 KV CIRCUIT BREAKER.



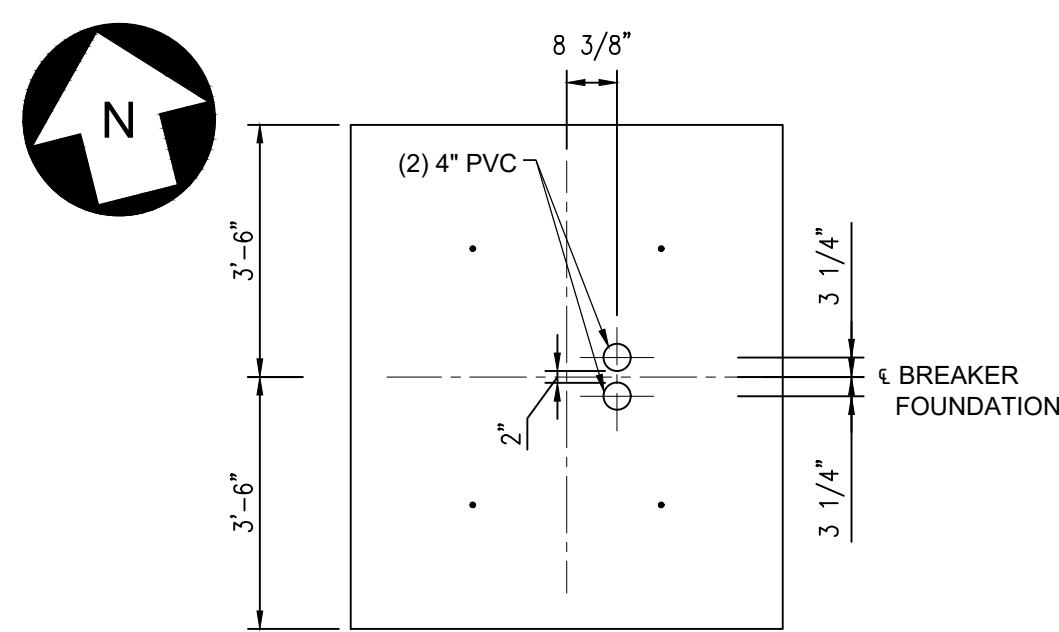
1 15 KV CIRCUIT BREAKER & DISCONNECT SWITCH - DETAIL
 E112 SCALE: 3/8"=1'-0"



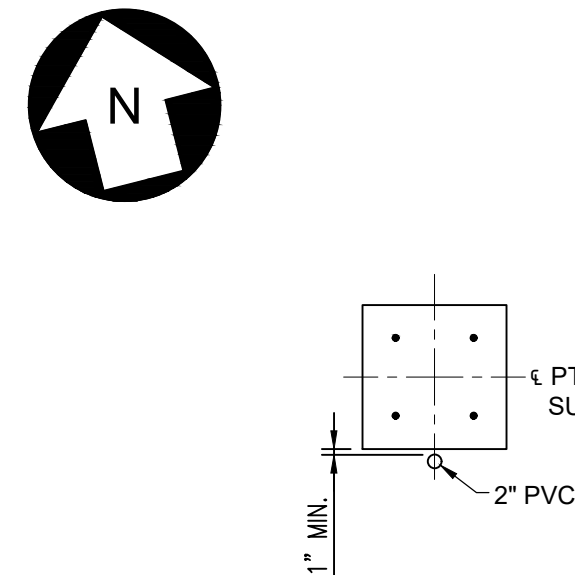
2 23 KV PT - DETAIL
 E111 SCALE: 3/8"=1'-0"



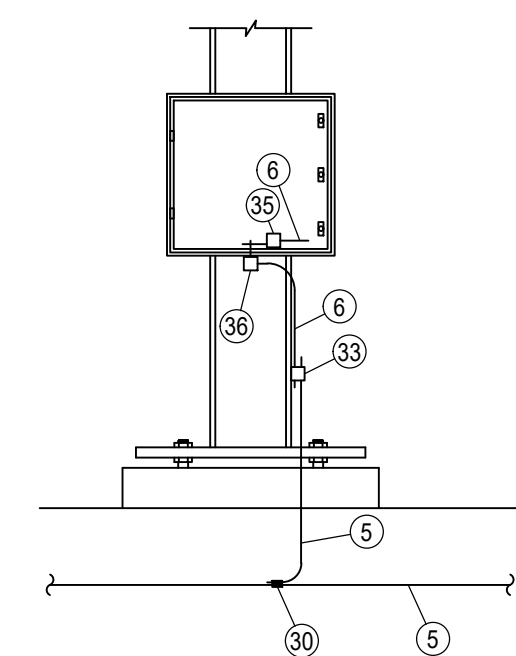
3 TERMINAL CONNECTOR PAD ASSEMBLY - DETAIL
 SCALE: 3/8"=1'-0"



4 15 KV CIRCUIT BREAKER RISER - DETAIL
 E450-2 SCALE: 3/8"=1'-0"

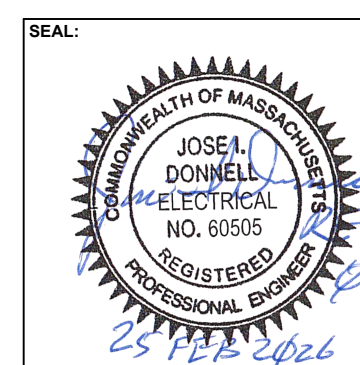
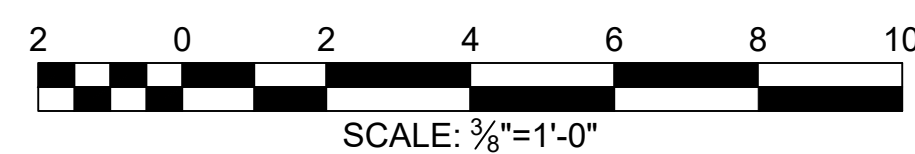


5 23 KV PT RISER - DETAIL
 E450-2 SCALE: 3/8"=1'-0"



6 JUNCTION BOX GROUNDING - DETAIL
 E110-1 SCALE: NTS

NEW DRAWING



REV	DESCRIPTION	DATE	JPR	CEH	JID
0	ISSUED FOR CONSTRUCTION	02/20/26			



**FOWLERS LANE SUBSTATION No.5
 LIGHTSHIFT BESS UPGRADES
 IPSWICH ELECTRIC LIGHT DEPT
 IPSWICH, MASSACHUSETTS**
 SCALE: 3/8" = 1'-0"
 SIZE: ANSI D
**ELECTRICAL ARRANGEMENT
 DETAILS
 SHEET 1 OF 1**

DATE:	10/27/25
DRAWN BY:	RDO
ENGINEER BY:	CEH
PROJECT #:	25337
DRAWING #:	919506-E113