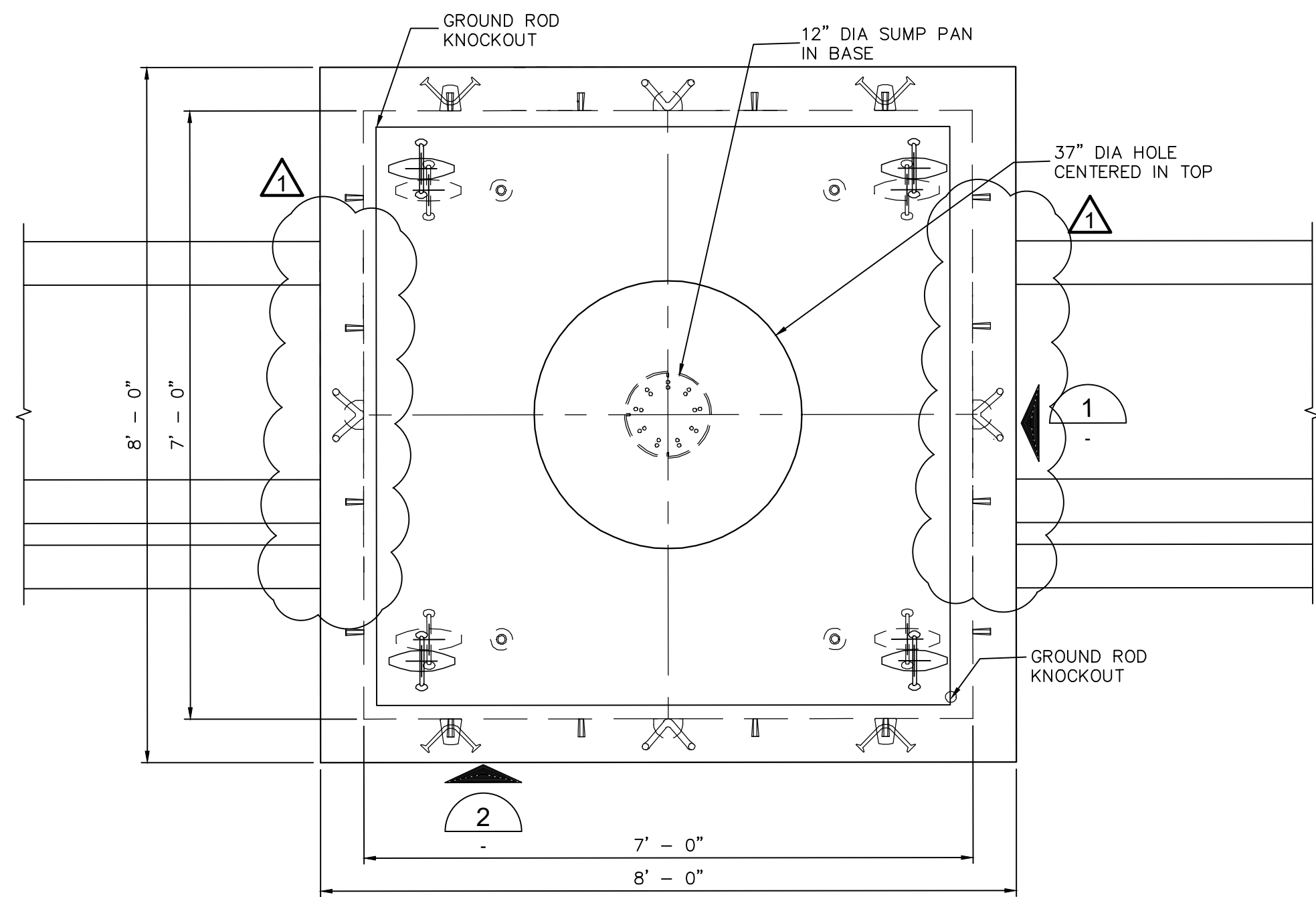
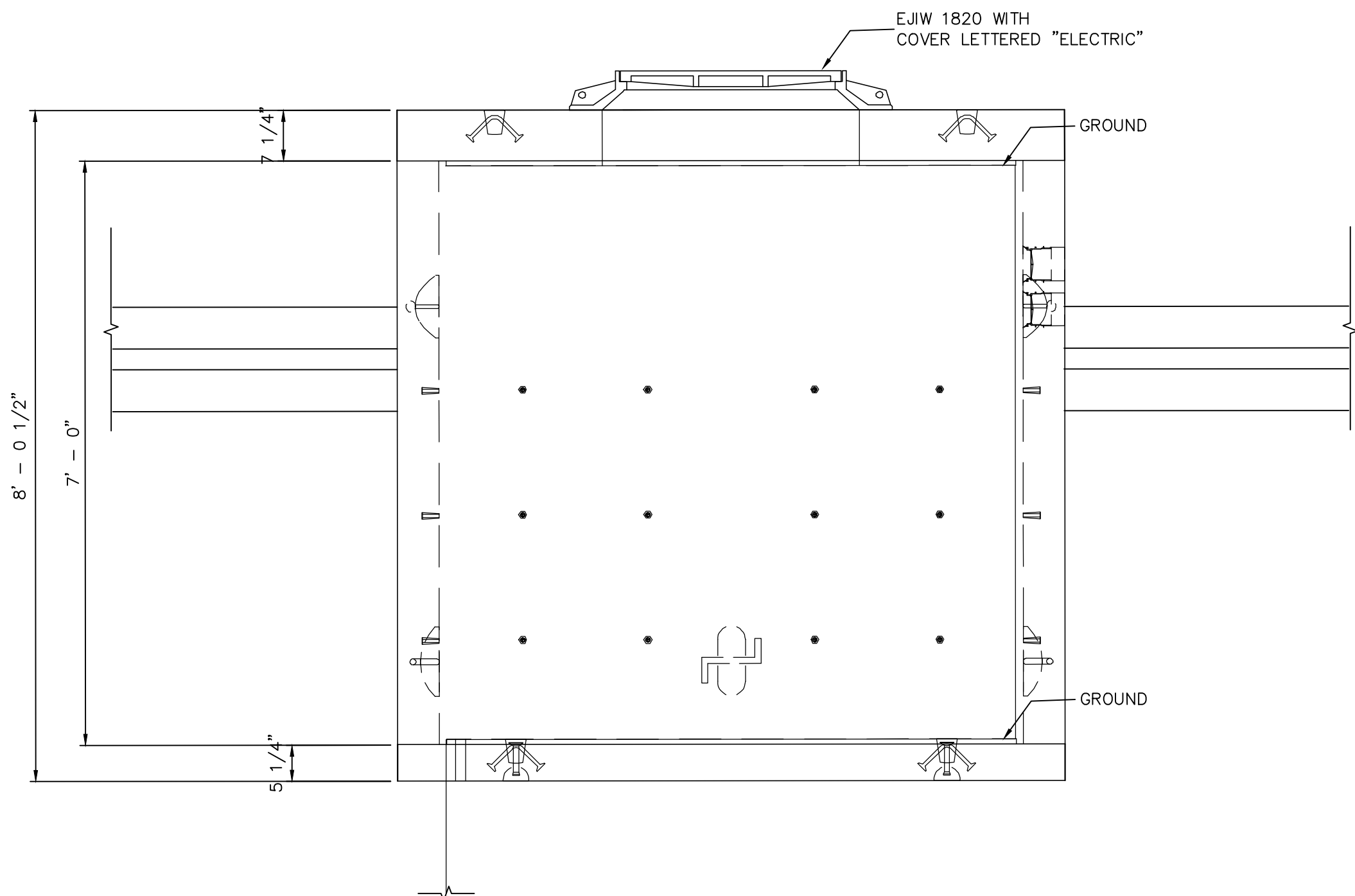


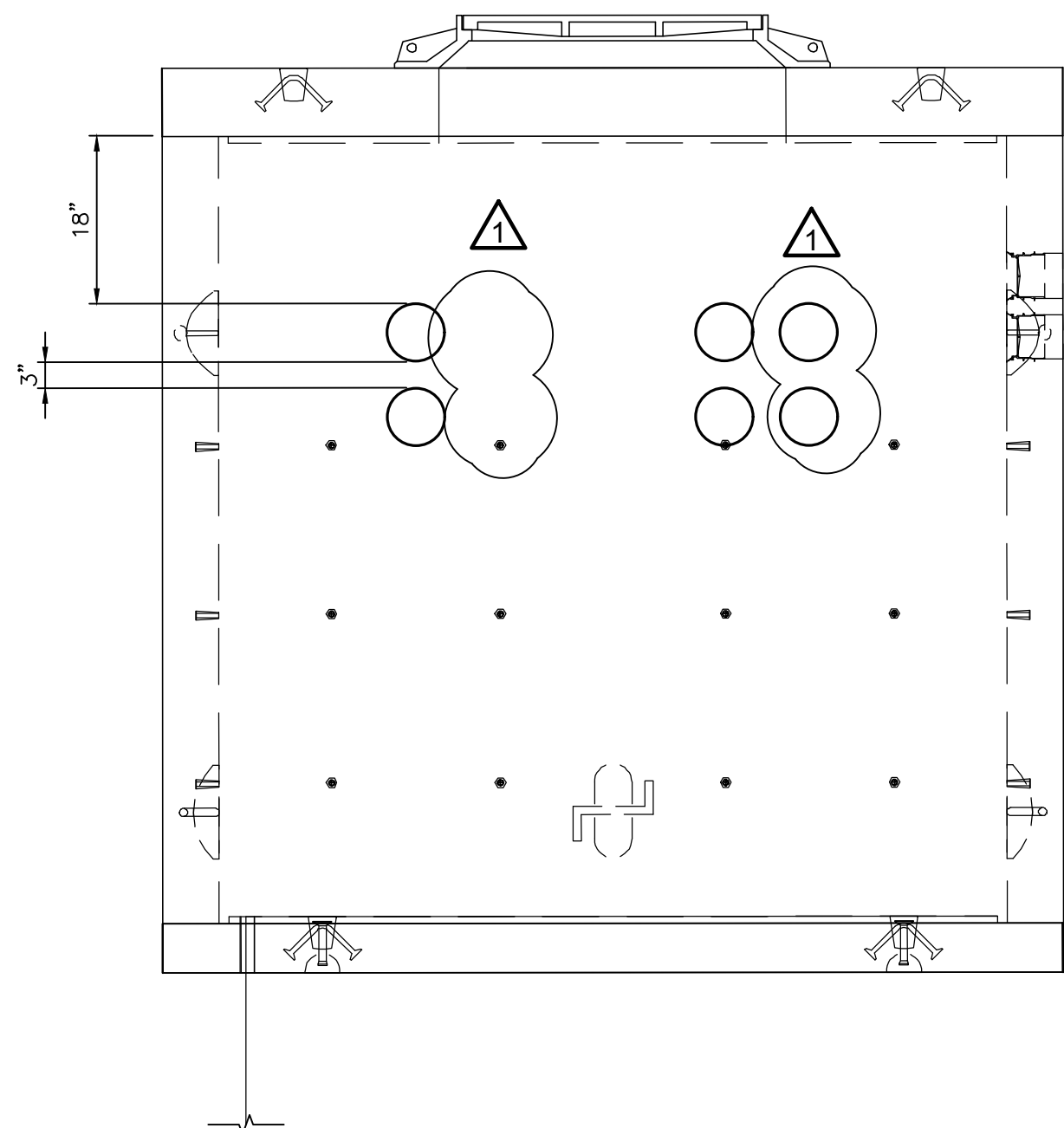


ELECTRICAL VAULT (A)

NOTE:  
1. OUTGOING DUCT SHOWN BUT CABLE WILL NOT BE INSTALLED AT THIS TIME

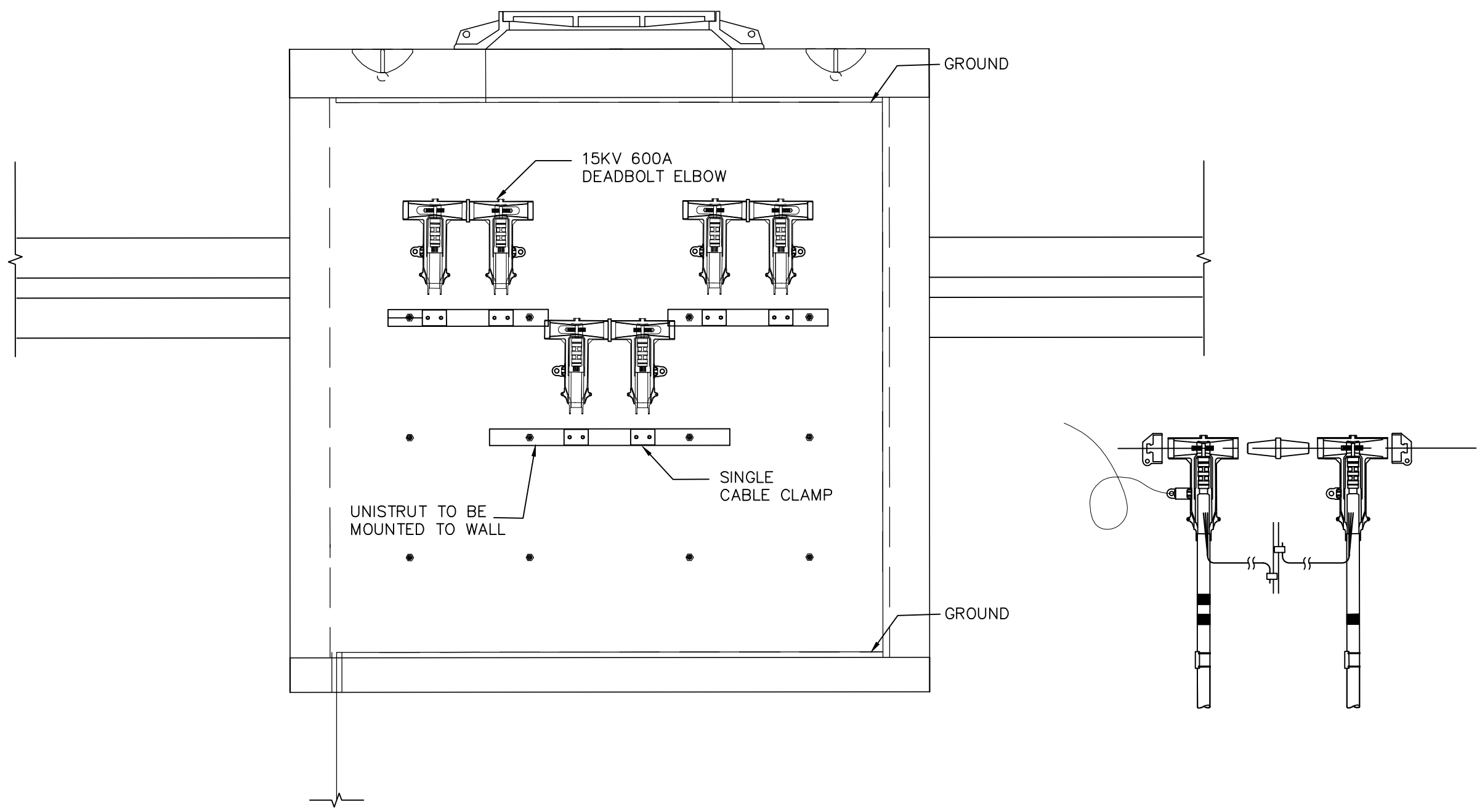


ELECTRICAL VAULT SECTION (1A)



ELECTRICAL VAULT SECTION (2)

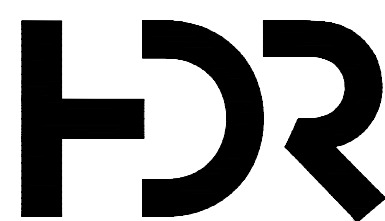
NOTE:  
1. OUTGOING DUCT SHOWN BUT CABLE WILL NOT BE INSTALLED AT THIS TIME



ELBOW TERMINATIONS (1B)

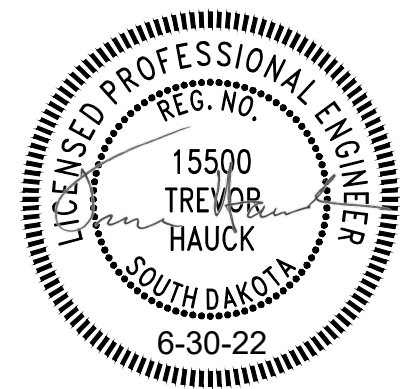
NOTE:  
1. COIL ONE LOOP OF CABLE SLACK FOR RETERMINATION IN THE MANHOLE BASEMENT.  
2. SHIELDS AT EACH ELBOW SHOULD BE BONDED TO THE GROUND WIRE.  
3. UNISTRUT MOUNTED TO MANHOLE WALL TO MONT CABLE SUPPORT BRACKETS. CABLE SUPPORTS WILL BE USED TO SUPPORT ELBOWS.  
4. DO NOT EXCEED MINIMUM BENDING RADIUS OF CABLE.

NOTES:  
1. DESIGN CODE: ACI 318-11  
2. CONCRETE: 28 DAY COMPRESSIVE STRENGTH  $f_c=6000$   
3. REBAR: ASTM A-615 GRADE 60  
4. CEMENT: ASTM C-150 SPECIFICATIONS  
5. LOADS:  
5.1. AASHTO HS-20-44, W/ IMPACT  
5.2. SOIL WEIGHT = 120 PCF  
5.3. CONCRETE WEIGHT = 150 PCF  
5.4. DESIGN FILL RANGE 0' MIN, 5' MAX  
5.5. ASSUMED WATER TABLE: 5' BELOW FINISHED GRADE  
5.6. EQUIVALENT FLUID PRESSURE = 40 PCF  
5.7. LIVE LOAD SURCHARGE = 80 OSF  
6. JOINT SEALANT: ASTM C-990  
7. VAULT FOUNDATION TO BE AS SPECIFIED BY MANUFACTURER

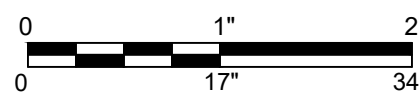


| ISSUE | DATE    | DESCRIPTION            |
|-------|---------|------------------------|
| 1     | 6/30/22 | TRANSITION DETAIL      |
| 0     | 6/8/22  | ISSUE FOR CONSTRUCTION |

|                 |              |
|-----------------|--------------|
| PROJECT MANAGER | Trevor Hauck |
| PROJECT NUMBER  | 10333743     |



EAST SUBSTATION CABLE REPLACEMENT  
MANHOLE DETAILS



FILENAME | SURF\_E112  
SCALE | SCALE

SHEET  
E112