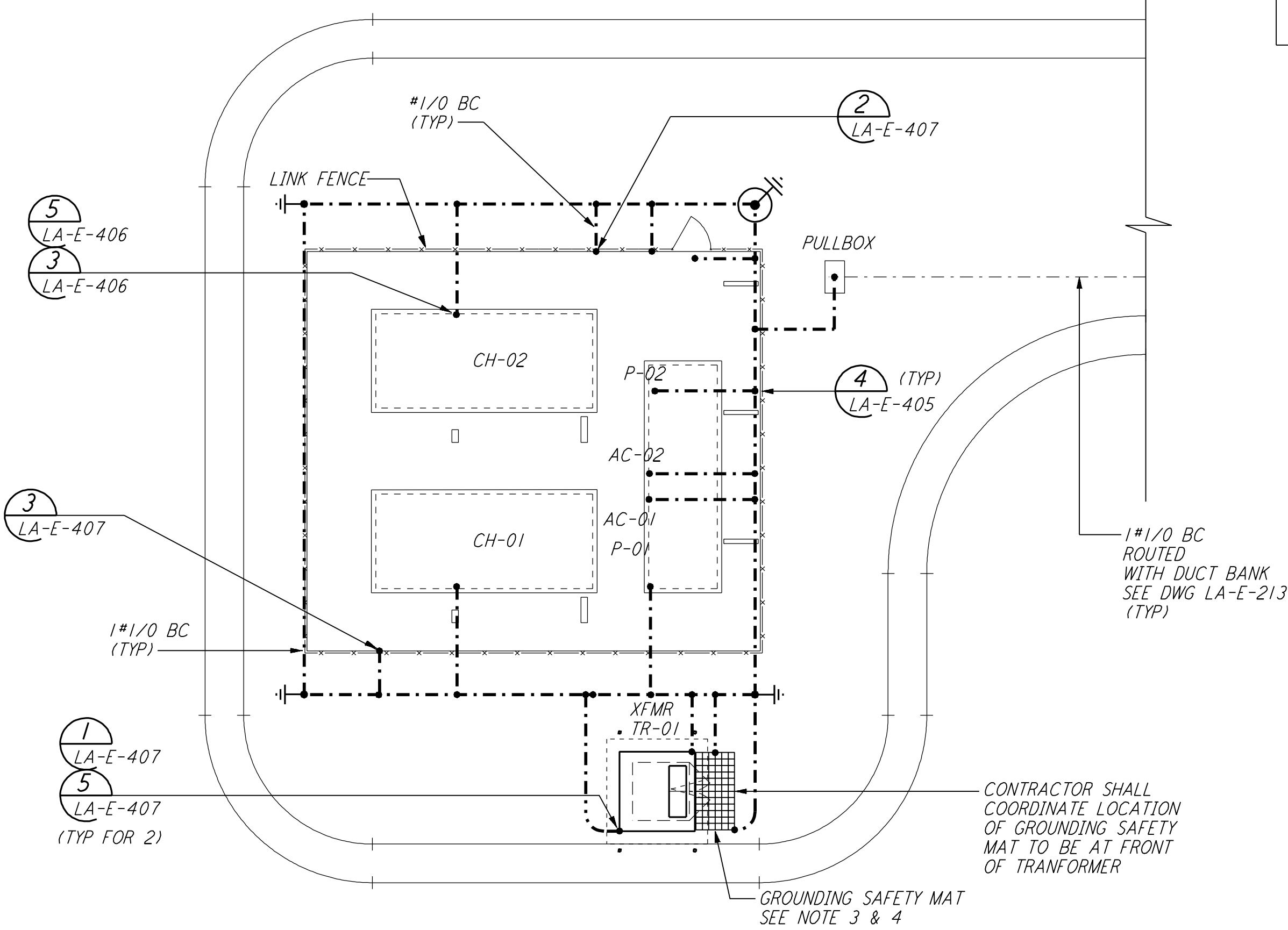
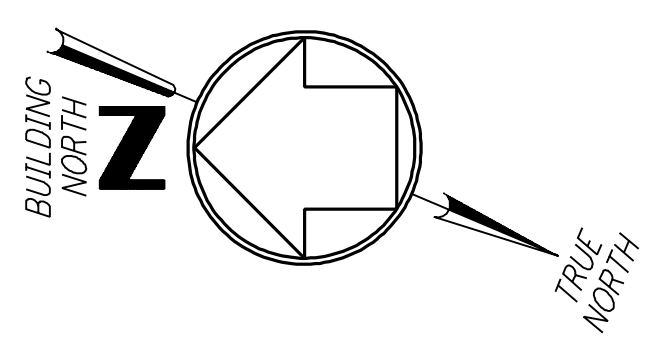
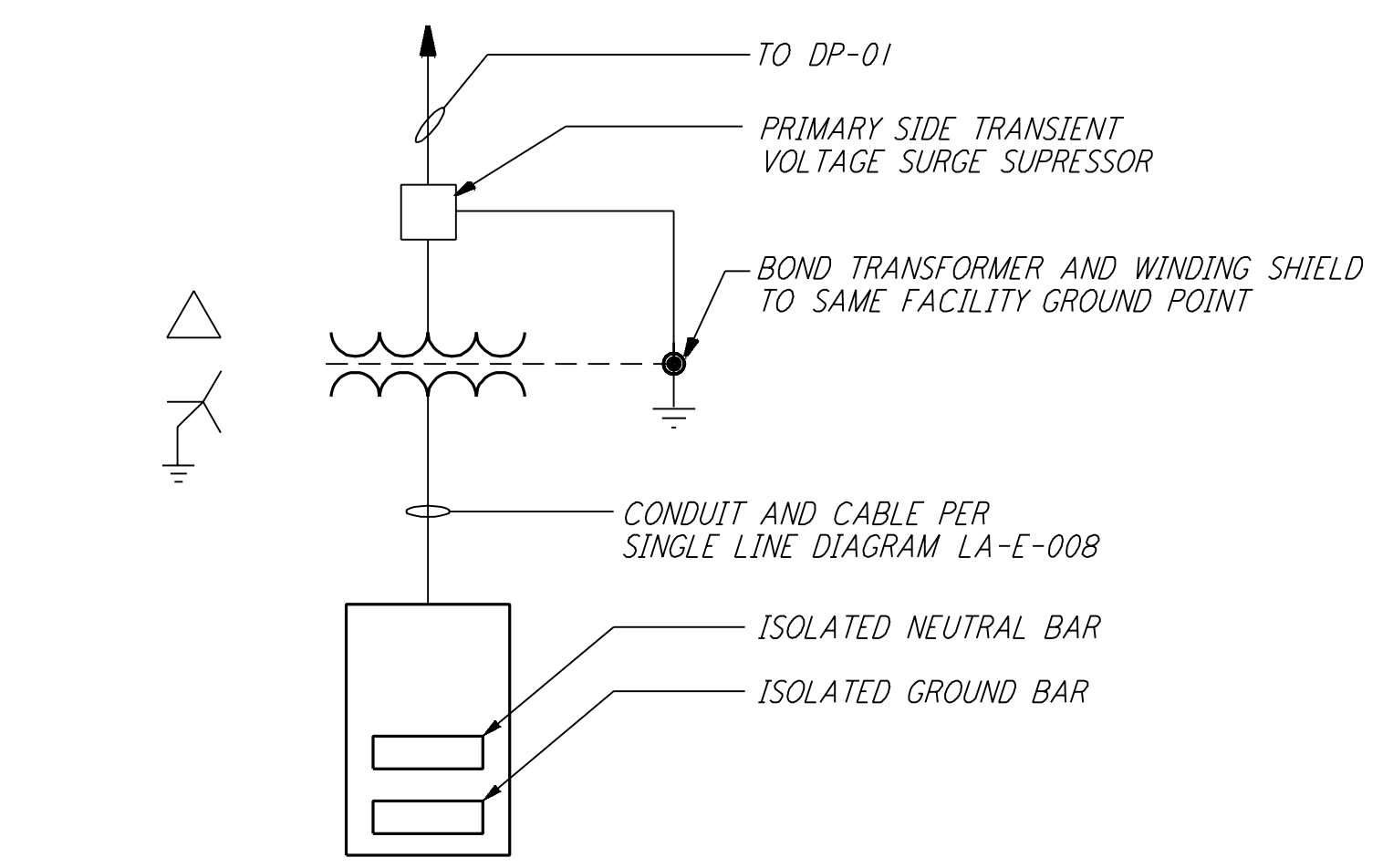
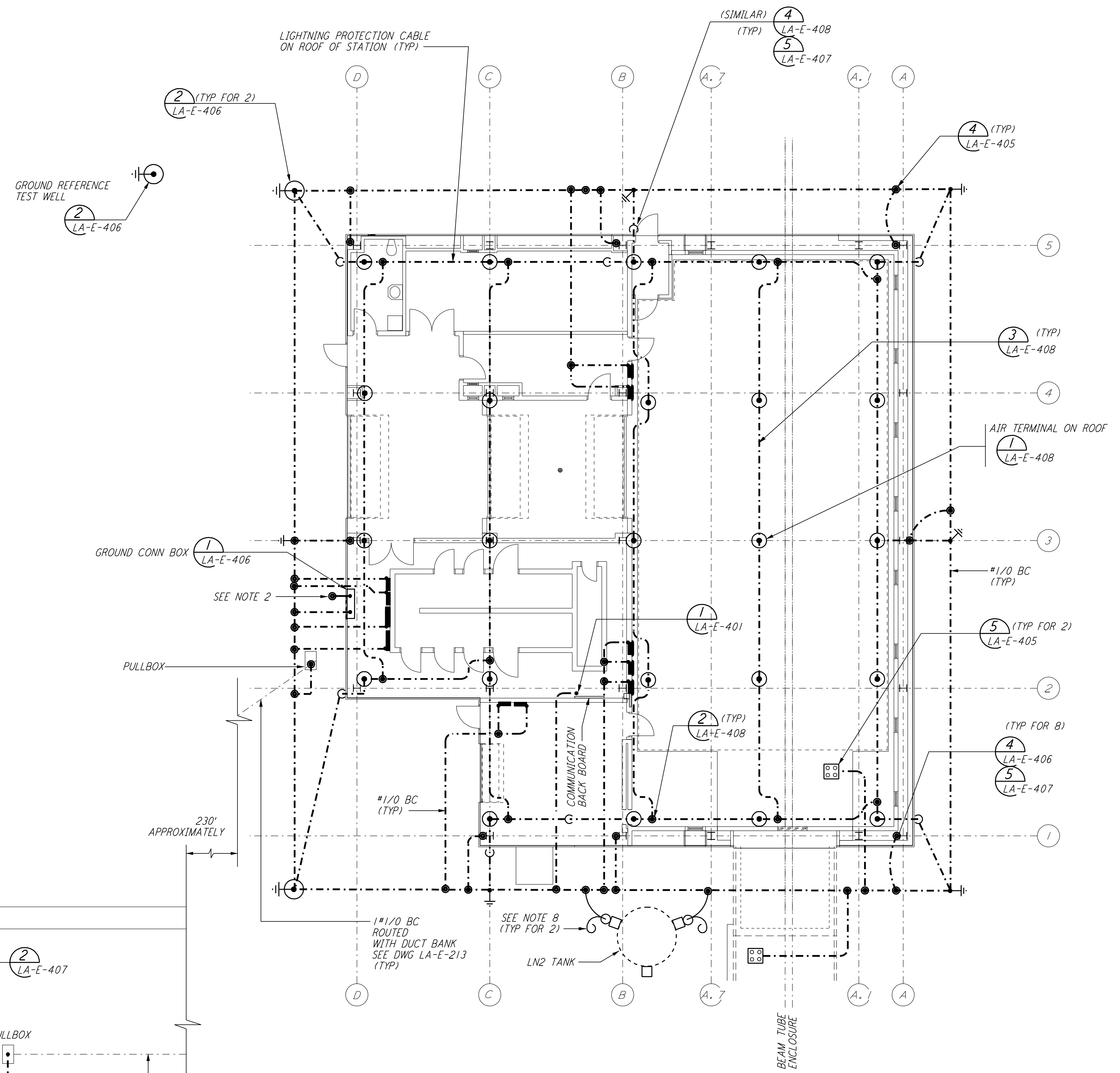


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GROUNDING CHILLER PLAN

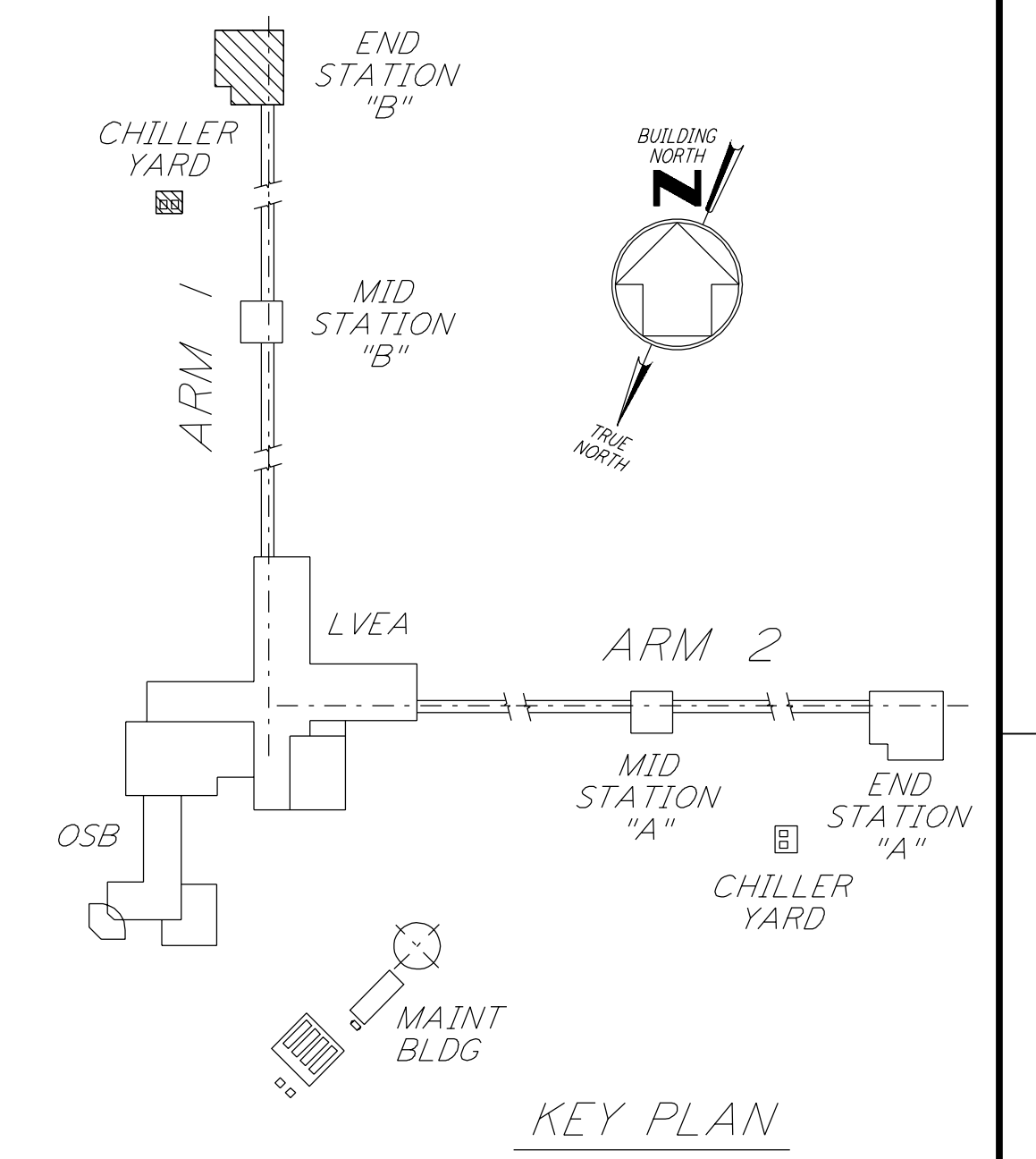
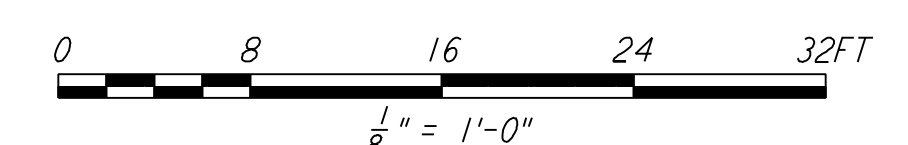


GROUNDING SCHEMATIC FOR RECEPTACLE PANEL RP-01

GROUNDING SCHEMATIC FOR CDSAC-01 PANEL

**NOTES:**

1. FOR GENERAL NOTES SEE DWG. LA-E-103.
2. CONNECT GROUNDING CONDUCTOR TO REBAR (BY OTHERS) AT BOTTOM OF FOUNDATION. REBAR SHALL BE AT LEAST 20 FEET LONG.
3. GROUNDING MAT FOR PERSONNEL PROTECTION SHALL BE A PREFABRICATED 4'-0" X 6'-0" MAT WITH A 6" X 6" GRID, 40% CONDUCTIVITY COPPERWELD, WITH CENTER WIRE # 1/0 AWG, ERICO MFR. CABLE TO MESH TYPE PT, MOLD PTC-1026, WELD METAL #65.
4. GROUNDING MAT SHALL BE INSTALLED 12" DEEP MIN. ADJACENT TO HIGH VOLTAGE PRIMARY SIDE.
5. SEE CIVIL DRAWING LA-C-021 FOR ACTUAL LOCATION OF CHILLERS, PUMPS AND TRANSFORMER.
6. SEE SPECIFICATION SECTION 16670 FOR LIGHTNING PROTECTION MATERIAL.
7. GROUND CONNECTION TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELD TYPE, AND APPROPRIATE FOR THE CABLE AND STRUCTURAL STEEL.
8. COIL AND TAPE GROUND CONDUCTOR AT TANK FOUNDATION, FOR FUTURE CONNECTION BY TANK VENDOR.



KEY PLAN

| NO. | DATE   | BY | CHKD | ENGR | PROJ | DESCRIPTION         |
|-----|--------|----|------|------|------|---------------------|
| 1   | 8-7-98 | JE |      |      |      | ISSUED FOR AS-BUILT |

| ISSUED FOR CONSTRUCTION |          |          |
|-------------------------|----------|----------|
| DRAWN                   | M. M.    | 11-15-96 |
| CHECKED                 | JCL      | 7-24-96  |
| ENGINEER                | KCR      | 10-25-96 |
| PROJ                    | T. D. M. | 11-15-96 |

**AS-BUILT DRAWINGS**

**PARSONS**  
 100 WEST WALNUT STREET  
 PASADENA, CALIFORNIA

**LIGO**  
 CALIFORNIA INSTITUTE OF TECHNOLOGY  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER  
 GRAVITATIONAL-WAVE OBSERVATORY  
 SITE NO. 2 - LIVINGSTON, LOUISIANA

|                                                              |           |                 |                |
|--------------------------------------------------------------|-----------|-----------------|----------------|
| TITLE                                                        | SCALE     | CONTRACT NUMBER | PROJECT NUMBER |
| ELECTRICAL<br>END STATION B<br>LIGHTNING & GROUNDING<br>PLAN | AS NOTED  | PP150969        | 8094           |
| SHEET NUMBER                                                 | REVISIONS |                 |                |
| <b>LA-E-212</b>                                              |           |                 |                |

*Note 1, LIGO, 02/12/99 10:10:15 AM*  
LIGO-D961033-01-O