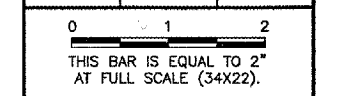


REVISIONS		
NUMBER	BY	DATE



**LANSING MUNICIPAL AIRPORT
 LANSING, ILLINOIS**

INSTALL RUNWAY 36 LOCALIZER

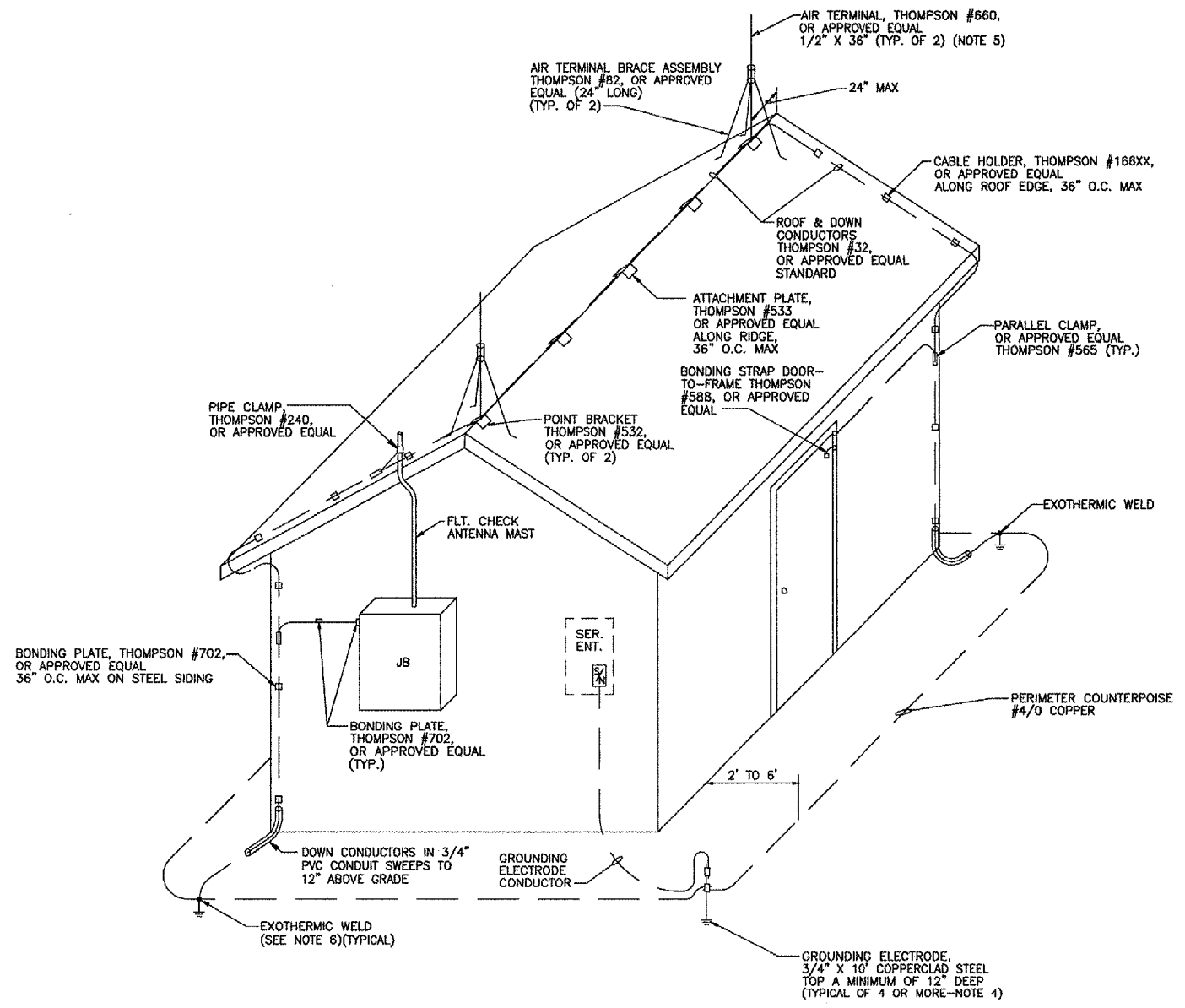
**SHELTER BUILDING LIGHTING
 PROTECTION/ELECTRICAL DETAILS**

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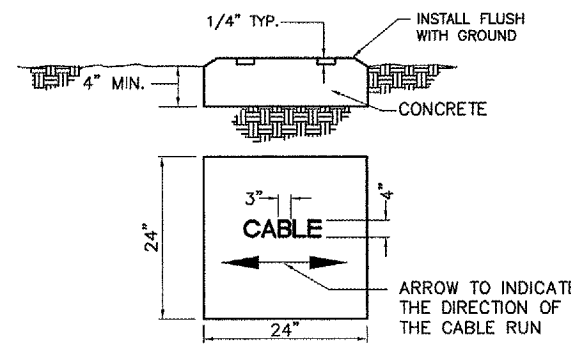
Lansing Municipal
airport

DESIGN BY:	AB
DRAWN BY:	JRO
CHECKED BY:	AB
APPROVED BY:	
DATE:	06/22/05
JOB No:	04297-03
IL PROJECT: IG0-3482 A.I.P. PROJECT: 3-17-0121-B23	
SHEET 16 OF 18 SHEETS	



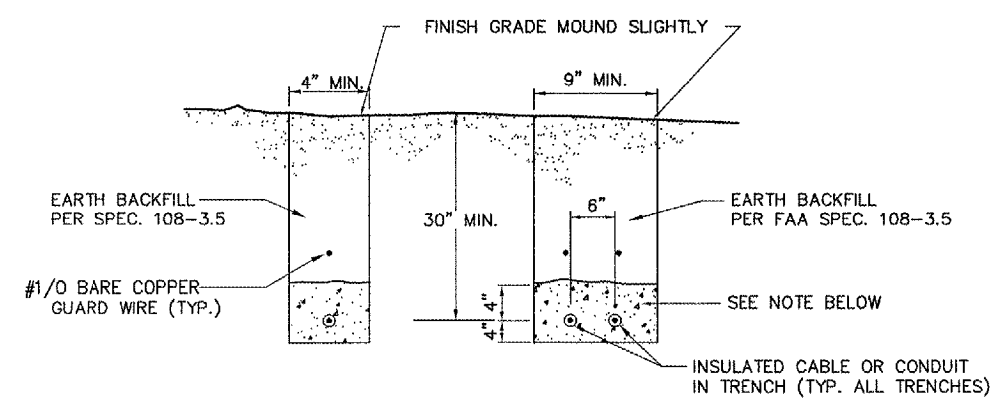
- NOTES:**
1. ALL CLAMPS AND BONDING DEVICES SHALL BE BRONZE, ALL CABLES AND STRAPS SHALL BE COPPER, AND ALL BOLTS, SCREWS, & FASTENING HARDWARE SHALL BE BRONZE OR BRASS UNLESS OTHERWISE SHOWN.
 2. BOND ENVIRONMENTAL CONTROL UNIT, FLT. CHECK ANT. MAST, DOOR FRAME, JUNCTION BOXES, & ANY MISC. EXTERIOR METAL OBJECTS TO DOWN CONDUCTORS WITH MIN. #6 BARE - THOMPSON #14X OR #509X, OR APPROVED EQUAL.
 3. NO CONDUCTOR SHALL BE BENT TO LESS THAN AN 8" RADIUS NOR SHALL BE BENT TO LESS THAN A 90° INCLUDED ANGLE.
 4. WHERE FACILITIES HAVE AN ANTENNA(S) WITHIN 20' OF THE BUILDING, THE PERIMETER COUNTERPOISE SHALL SURROUND THE BUILDING AND ANTENNA(S), WITH TWO ADDITIONAL GROUNDING ELECTRODES PROVIDED PER ANTENNA.
 5. BUILDINGS WITH FLAT ROOFS REQUIRE AN AIR TERMINAL AT EACH CORNER AND A PERIMETER ROOF CONDUCTOR (THOMPSON #32, OR APPROVED EQUAL) CONNECTING ALL TERMINALS IN PLACE OF RIDGE TERMINAL AND CONDUCTOR AS SHOWN.
 6. LIGHTING DOWN CONDUCTORS SHALL BE EXOTHERMICALLY WELDED TO 4/0 GROUND CONDUCTOR PRIOR TO ENTERING THE GROUND.

WHERE SPECIFIC MANUFACTURERS OF EQUIPMENT ARE GIVEN, THE CONTRACTOR MAY SUBMIT ALTERNATE EQUIPMENT EQUAL TO THAT PROPOSED FOR CONSIDERATION BY THE ENGINEER.



- NOTES:**
1. CABLE MARKERS SHALL BE INSTALLED AT ALL BENDS AND EVERY 200' ALONG THE CABLE RUN.
 2. ITEM 610 CONCRETE SHALL BE USED.
 3. ALL EXPOSED EDGES SHALL BE EDGED WITH A 1/4" RADIUS TOOL.
 4. THE COST OF FURNISHING AND INSTALLING NEW MARKERS SHALL BE INCIDENTAL TO THE ASSOCIATED CABLE ITEMS.
 5. 0.049 CU. YD. CONCRETE PER MARKER.

CABLE AND DUCT MARKER (TURF AREA)



SINGLE CABLE MULTIPLE CABLES

ELECTRICAL TRENCH DETAIL - TURF AREA

NOT TO SCALE

NOTE:
 IF BACKHOE OR COMPARABLE EQUIPMENT USED, SAND BACKFILL (IDOT FA-1 OR FA-2) SHALL BE REQUIRED. IF TRENCHER USED CABLE TAPE SHALL BE INCLUDED TO DELINEATE CABLE. COST OF FINE AGGREGATE OR TAPE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CABLE.