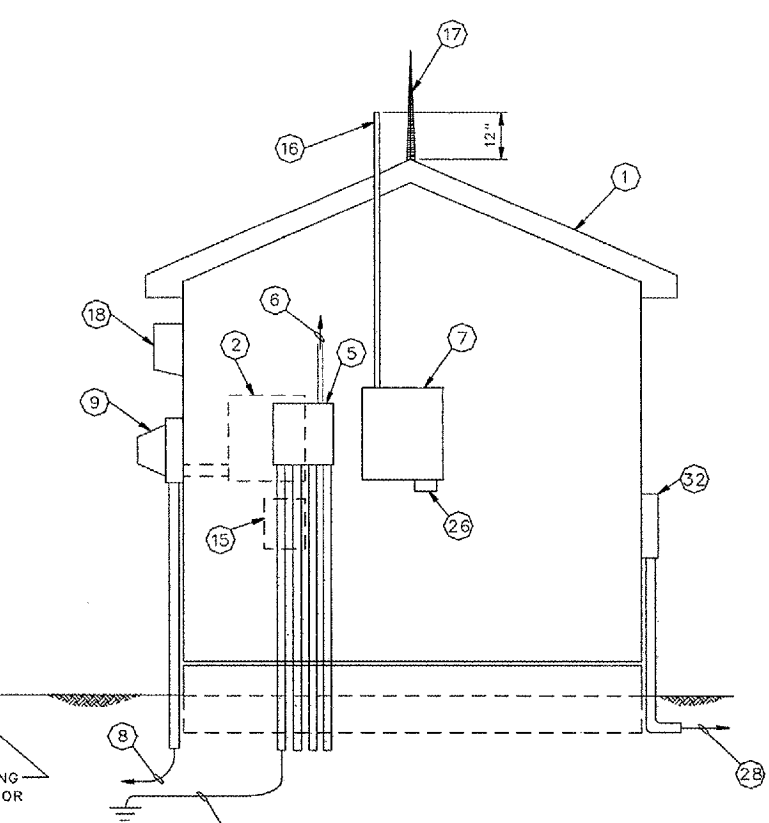
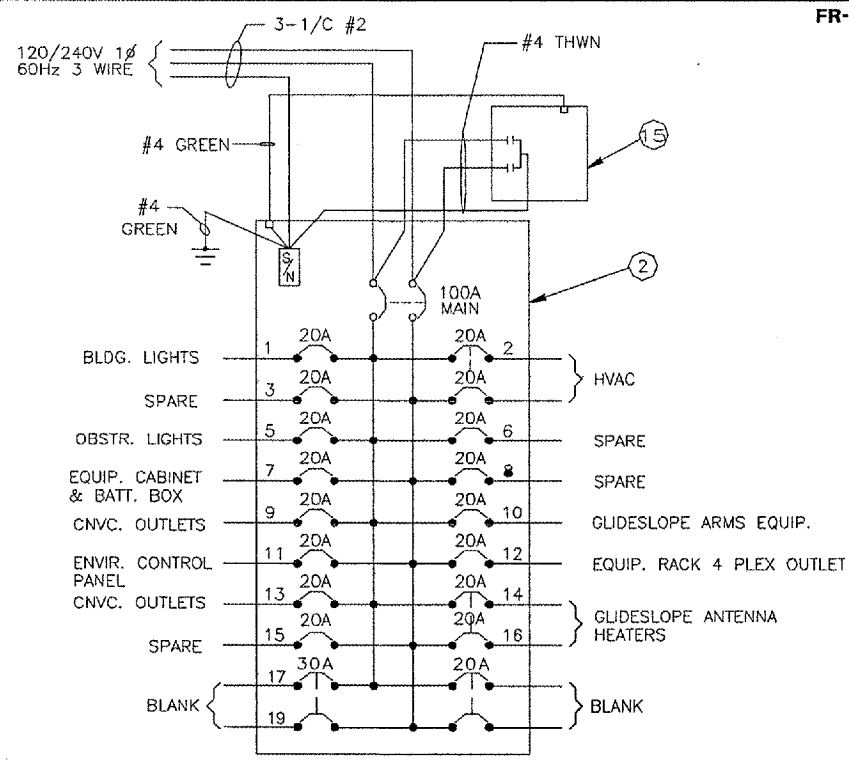


PLAN-ELECTRICAL LAYOUT

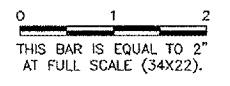


OUTSIDE ELEVATION

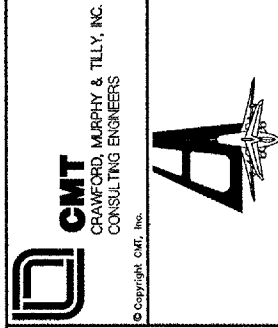


DETAIL "A"  
POWER PANEL

REVISIONS		
NUMBER	BY	DATE



**FREERPORT - ALBERTUS AIRPORT  
 FREERPORT, ILLINOIS**  
 ILLINOIS PROJECT, FEP-3132 / A.I.P. PROJECT, 3-17-0045-B16  
**GLIDESLOPE SHELTER  
 EQUIPMENT LAYOUT**



DESIGN BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
DATE:	06/17/05
JOB No:	02294-08

NUMBERED LEGEND

- ① CONCRETE FOUNDATION AND 12' X 16' EQUIPMENT SHELTER PER SHELTER BUILDING DETAILS.
- ② POWER PANEL, SQUARE "D" CAT NO NQD20M100CU OR APPROVED EQUAL IN NEMA 1 ENCLOSURE WITH BOLT ON BREAKERS. SEE DETAIL "A", THIS SHEET.
- ③ LIGHT FIXTURE, FLUORESCENT, SURFACE MOUNT, 120V, 2-40W BULBS, GUTH CAT. NO. ACR6596, WITH G.E. NO. 89G635 RF SUPPRESSOR AND LOW TEMPERATURE STARTERS. OR APPROVED EQUALS.
- ④ 2" GALVANIZED RIGID STEEL PIPE DOOR STOP TO 4' BELOW GRADE. PIPE SHALL HAVE A LATCHING HOOK AND DOOR SHALL HAVE AN EYEBOLT.
- ⑤ POWER INTERFACE JB, 16" X 16" X 6" NEMA 4X, HOFFMAN CAT. NO. A-16H16ALP OR APPROVED EQUAL WITH 1" NIPPLE THROUGH WALL.
- ⑥ 5-1/C #12 AND 1-#12 GREEN GROUND IN 1" CONDUIT OVERHEAD TO GLIDE SLOPE ANTENNA MAST PER NOTE 4 THIS SHEET TO ANTENNA HEATER AND OBSTRUCTION LIGHTS.
- ⑦ 24" X 20" X 8" R.F. AND CONTROL INTERFACE BOX, NEMA 4X, HOFFMAN CAT. NO. A-24H20BLP OR APPROVED EQUAL WITH A 2 1/2" NIPPLE THRU WALL.
- ⑧ POWER CABLES FROM TRANSFORMER TO METER BASE.
- ⑨ 100A METER BASE FURNISHED BY CONTRACTOR, AND 2" GALVANIZED RIGID STEEL CONDUIT TO 18" BELOW GRADE, WITH GROUNDING BUSHING.
- ⑩ WALL MOUNTED ENVIRONMENTAL CONTROL UNIT, 11,100 BTUH AIR CONDITIONER, 3.6KW HEATSTRIP, BARD CATALOG #WA121-A03EX4XXJ WITH SUPPLY AND RETURN GRILL AND 2-STAGE HEATING/COOLING THERMOSTAT.
- ⑭ NOT USED
- ⑮ SURGE SUPPRESSOR, LIGHTNING PROTECTION CORP. #LPC 20206-7, WITH 2 UL-RATED 60-A CLASS J TIME DELAY FUSES HAVING 200 KAIC INTERRUPTING CAPACITY.
- ⑯ FLIGHT CHECK ANTENNA SUPPORT, 1 1/4" RIGID GALVANIZED CONDUIT. CAP END. FOR USE BY OTHERS. THE TOP OF THIS ANTENNA SUPPORT SHALL BE 12" ABOVE THE ELEVATION OF THE SHELTER ROOF PEAK. THE ANTENNA SUPPORT SHALL HAVE A DOUBLE BEND TO AVOID PENETRATING THE ROOF. THE ANTENNA SUPPORT SHALL BE CLAMPED TO THE FASCIA AT THE END OF THE ROOF.

- ⑰ LIGHTNING PROTECTION PER SHELTER BUILDING LIGHTNING PROTECTION.
- ⑱ OUTDOOR LIGHTING FIXTURE, 50W. HIGH PRESSURE SODIUM HOLOPHANE CAT. #WP1A050HP12GR W/PHOTOCONTROL OR APPROVED EQUAL.
- ⑲ 3/4" GALVANIZED RIGID STEEL CONDUIT WITH GROUNDING BUSHING, WITH CABLE ⑳.
- ⑳ ILS EQUIPMENT GROUNDING CONNECTOR: 1-1/C #2 COPPER, GREEN WITH YELLOW STRIPE INSULATION. LEAVE A 15' FT. TAIL IN BOX ⑦, AND RUN DIRECTLY TO GROUNDING ELECTRODE. SEE NOTE 5.
- ㉑ INTR ILS JUNCTION BOX
- ㉒ 2-1/2" EMT CONDUIT (SEE NOTE #7)
- ㉓ 3/4" EMT CONDUIT (SEE NOTE #7)
- ㉔ EQUIPMENT CABINET
- ㉕ BATTERY RACK
- ㉖ 6 EACH STRAP TO ITEM #6 ANTENNA RF CABLES
- ㉗ 2" GRS CONDUIT WITH GROUND BUSHING.
- ㉘ NOT USED
- ㉙ 25 - PAIR #19 CONTROL CABLE (SEE CONTROL CABLING PLAN FOR ROUTING).
- ㉚ REMOTE RADIO CONTROL PANEL, 10" X 12" X 6" ENCLOSURE
- ㉛ NOT USED
- ㉜ 16" X 20" X 7" CONTROL CABLE INTERFACE BOX
- ㉝ 3/4" EMT CONDUIT, 9 CONDUCTORS TO BATTERY BOX

NOTES:

1. ALL CONDUIT, RECEPTACLES, LIGHT FIXTURES, HEATER, POWER PANEL, AND ENVIRONMENTAL PANEL SHALL BE SURFACE MOUNTED.
2. ALL WALL PENETRATIONS SHALL BE CAULKED WITH SILICONE CAULK.
3. CONNECT OBSTRUCTION LIGHTS WIRING AT POWER PANEL. LEAVE 25' CABLE TAILS OF ALL OTHER CABLES OF ITEM ⑥ COILED IN SHELTER.
4. SEE GLIDESLOPE SITE PLAN FOR LAYOUT.
5. ALL GROUNDING CONDUCTORS AND COUNTERPOISE, SHALL BE ATTACHED TO GROUNDING ELECTRODES WITH EXOTHERMIC WELDS PER SPECIFICATIONS.
6. CONTRACTOR SHALL COMPLY WITH APPLICABLE SECTIONS OF FAA STANDARD 19D.
7. CONTRACTOR SHALL PROVIDE CONDUCTORS OFF TYPE, SIZE, AND QUANTITY FOR THESE CONDUITS AS DIRECTED BY GLIDESLOPE SUPPLIER. CABLES SHALL BE COILED AND STORED WITH CONDUITS.
8. WHERE SPECIFIC MANUFACTURERS OF EQUIPMENT ARE GIVEN, THE CONTRACTOR MAY SUBMIT ALTERNATE EQUIPMENT EQUAL TO THAT PROPOSED FOR CONSIDERATION BY THE ENGINEER.