



1/4" THICK x 4" HIGH x 18" LONG COPPER GROUND BUS WITH WALL MOUNTING BRACKETS & INSULATORS, HARGER LIGHTNING PROTECTION INC. CAT. NO. GBI 14418N, OR APPROVED EQUAL. LOCATE ON SOUTHWEST WALL OF HANGAR BAY BETWEEN THE FBO EMERGENCY PANEL & THE FBO MAIN DISTRIBUTION PANEL. CONFIRM MOUNTING LOCATION WITH AIRPORT MANAGER & RESIDENT ENGINEER. INSTALL APPROXIMATELY 6" ABOVE FINISHED FLOOR. ADJUST MOUNTING HEIGHT AS NECESSARY TO AVOID INTERFERENCES WITH EXISTING SITE CONDITIONS.

FBO HANGAR GROUND RISER

NOTES

- CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS, EXISTING EQUIPMENT LOCATIONS, AND CONDUIT & GROUND WIRE ROUTING.
- ALL CONNECTIONS TO GROUND BUS BARS SHALL BE WITH 2 HOLE TONGUE LONG BARREL COMPRESSION LUGS BOLTED TO THE BUS BAR. ALL GROUND CONDUCTORS, TERMINATED ON THE MAIN GROUND BAR, SHALL BE CLEARLY LABELED WITH PERMANENTLY STAMPED/ENGRAVED FIBER IDENTIFICATION TAGS TO INDICATE THEIR FUNCTION AND FAR END TERMINATING POINT AND SHALL BE EQUIPPED WITH BRASS TAGS WITH THE WORDS "DO NOT DISCONNECT" EMBOSSED.
- GROUNDING ELECTRODE CONDUCTORS, BONDING JUMPERS, & INDIVIDUAL GROUND WIRES SHALL NOT BE INSTALLED IN METAL CONDUIT.
- ALL CONNECTIONS SHALL BE COATED WITH A CORROSION PREVENTATIVE COMPOUND (SANCHEM INC. NO-OX-ID "A-SPECIAL" OR EQUAL) BEFORE JOINING. ALL COPPER BUS BARS SHALL BE CLEANED PRIOR TO MAKING CONNECTION TO REMOVE SURFACE OXIDATION. CLEAN SURFACES, OF RESPECTIVE DEVICES TO BE BONDED, TO BARE METAL, PER NEC 250-12.
- ALL CONNECTIONS TO GND RODS AND/OR BELOW GRADE SHALL BE EXOTHERMIC WELD, CADWELD, THERMOWELD, OR ULTRAWELD.
- INSULATED GROUND WIRES SHALL HAVE GREEN COLORED INSULATION, FOR ALL CONDUCTOR AWG.
- FURNISH & INSTALL COAXIAL IMPULSE SUPPRESSOR/ARRESTOR FOR THE UNICOM RADIO (123.00 MHz) ANTENNA CABLE. LOCATE AT THE RADIO. COAXIAL IMPULSE SUPPRESSOR SHALL BE INDUSTRIAL COMMUNICATION ENGINEERS, LTD. MODEL 304/N OR APPROVED EQUAL. MOUNT/BOND TO RADIO ROOM GROUND BAR. INSTALL PER MFR. DIRECTIONS. GROUND SHIELD OF COAXIAL CABLE TO GROUND TERMINALS ON SUPPRESSOR.
- FURNISH & INSTALL COAXIAL IMPULSE SUPPRESSOR/ARRESTOR FOR THE KANSAS CITY CENTER RADIO MONITOR (127.7 MHz) ANTENNA CABLE. LOCATE AT THE RADIO. COAXIAL IMPULSE SUPPRESSOR SHALL BE INDUSTRIAL COMMUNICATION ENGINEERS, LTD. MODEL 304/N OR APPROVED EQUAL. MOUNT/BOND TO RADIO ROOM GROUND BAR. INSTALL PER MFR. DIRECTIONS. GROUND SHIELD OF COAXIAL CABLE TO GROUND TERMINALS ON SUPPRESSOR.
- REMOVE ABANDONED ANTENNAS & ASSOCIATED CABLE MOUNTED ON THE LIGHT POLE. CONFIRM ABANDONED ANTENNAS WITH AIRPORT MANAGER & FBO PERSONNEL.
- UPON COMPLETION OF INSTALLATION OF NEW GROUND RODS AT THE APRON LIGHT POLE, REMOVE THE EXISTING GND ROD.
- WORK SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER ITEM AS109200.

WORK SHOWN ON THIS SHEET IS FOR BID ALTERNATE NO. 1

JAN 19, 2006 8:35 PM RAW
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BY	
REVISION	
DATE	

MT. VERNON AIRPORT

 MT. VERNON, ILLINOIS
 A.I.P. PROJ.: 3-17-0074-B12
 L. PROJ.: MW-3539

HEL Project No. 819-06RWYD	12/02/05
Drawn: E-611.DWG	12/02/05
Scale: NONE	12/16/05
Date: 12/16/05	12/14/05
LAYOUT: KNL	CAH
DRAWN: NY	
REVIEWED: CAH	

HANSON
 Hanson Professional Services Inc.
 1525 South Sixth Street
 Springfield, Illinois 62703-2886
 Offices Nationwide

RUNWAY 15-33
 P.F.C. OVERLAY
 FBO HANGAR
 GROUND RISER