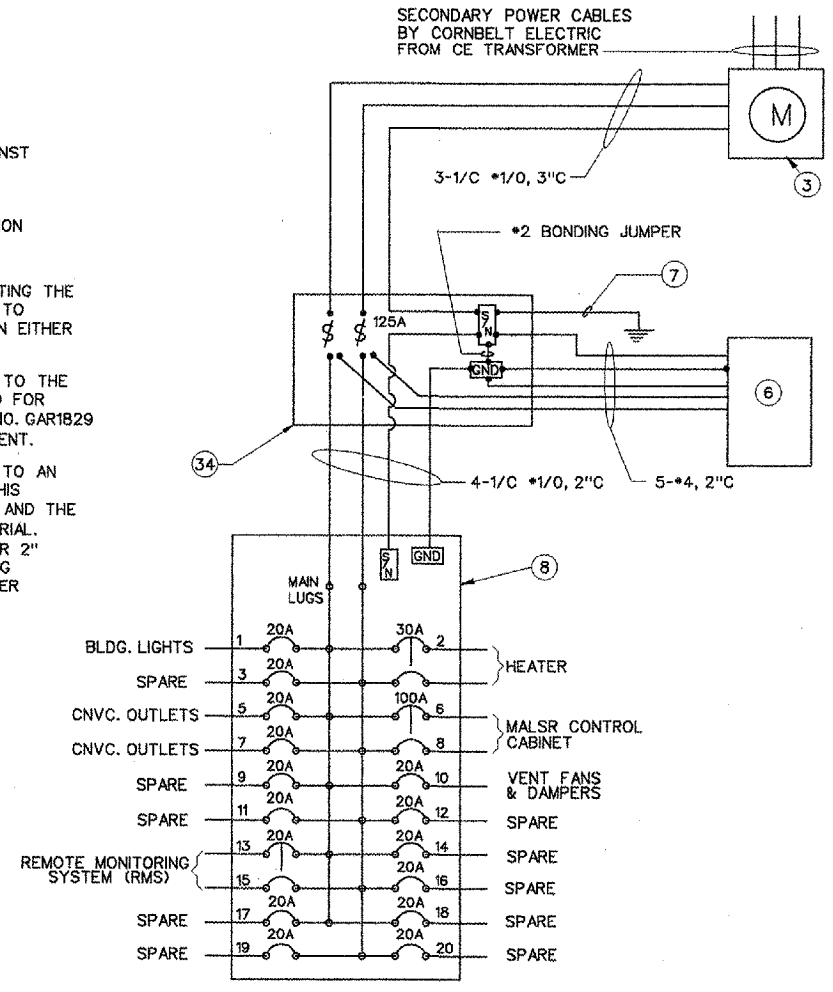


NUMBERED LEGEND

- INSTALL ① CONCRETE FOUNDATION AND 10' X 12' EQUIPMENT SHELTER.
- INSTALL ② CONTINUOUS 3" GRSC FROM TRANSFORMER PER I.P.C. REQUIREMENTS & NOTE 7. LEAVE A PULL WIRE IN CONDUIT. CORNBELT ELECTRIC WILL INSTALL SECONDARY CABLES IN CONDUIT.
- INSTALL ③ METER BASE. METER WILL BE PROVIDED BY CORNBELT ELECTRIC.
- INSTALL ④ 2" SHORT NIPPLE THROUGH WALL FROM METER BASE TO POWER PANEL ⑧. NIPPLE HAS GROUNDING BUSHING. SEE DETAIL "1".
- INSTALL ⑤ GALVANIZED RIGID STEEL FROST HEAVE COUPLING (APPLETON) WITH 8" MIN. TRAVEL AND BONDING JUMPER.
- INSTALL ⑥ SURGE ARRESTER, LIGHTNING PROTECTION CORP. *LPC 20206-7. THE SURGE ARRESTER IS DIRECTLY ABOVE ③.
- INSTALL ⑦ 1- *2 GREEN GROUNDING ELECTRODE CONDUCTOR FROM ③ IN 1" GALVANIZED RIGID STEEL CONDUIT WITH SWEEP ELBOW AND GROUNDING BUSHINGS.
- INSTALL ⑧ POWER PANEL, SQUARE "D" CAT. NO. NQOD30L225CU IN NEMA 1 ENCLOSURE WITH BOLT ON BREAKERS.
- INSTALL ⑨ NOT USED.
- INSTALL ⑩ WALL MOUNTED ELECTRIC HEATER, QMARK *AWH-4404 WITH SURFACE MOUNTING BOX (NOTE 1).
- ⑪ NOT USED.
- INSTALL ⑫ VENT HOOD WITH 200 SQ.IN. MINIMUM X 1" FIBERGLASS FILTER AND POWER DAMPER AND MOTOR PER ⑬ BELOW (NOTES 1 AND 4). VENT HOOD MATERIAL IS MIN. 20 GAUGE GALVANIZED STEEL.
- INSTALL ⑬ VENT FAN, GREENHECK MODEL GW-75-D, 1/25 H.P., 1550 RPM, 424 CFM @ 0" WITH POWER DAMPER-HONEYWELL D640A W/2 POSITION DAMPER MOTOR, HONEYWELL M436A116 (NOTE 1).
- INSTALL ⑭ VENT FAN THERMOSTAT, HONEYWELL *T651A.
- INSTALL ⑮ LIGHTING PROTECTION SYSTEM PER LIGHTNING PROTECTION DWG.
- INSTALL ⑯ 2" GALVANIZED RIGID STEEL PIPE DOOR STOP TO 4' BELOW GRADE. PIPE HAS A LATCHING HOOK AND DOOR HAS AN EYEBOLT.
- INSTALL ⑰ LIGHT FIXTURE, FLUORESCENT, SURFACE MOUNT, 120V, 2-32W, T8 BULBS, ENERGY EFFICIENT BALLASTS WITH RF SUPPRESSOR AND LOW TEMPERATURE STARTERS.
- INSTALL ⑱ OUTDOOR LIGHTING FIXTURE, 50W. HIGH PRESSURE SODIUM, HOLOPHANE, CAT *WP2A050HP12GRP WITH PHOTOCONTROL AND MOTION SENSOR.
- INSTALL ⑲ MALSR CONTROL CABINET, 30"H X 24"W X 8"D.
- INSTALL ⑳ 100A MALS DISCONNECT SWITCH.
- INSTALL ㉑ 15 KVA MALS TRANSFORMER.
- INSTALL ㉒ NOT USED.
- INSTALL ㉓ 8" SQUARE DUCT 7' LONG. CENTER 36" ABOVE FINISHED FLOOR
- INSTALL ㉔ REMOTE MONITORING SYSTEM CABINET.
- INSTALL ㉕ 2-12 PR#19 SHIELDED CONTROL CABLES TO MALSR DIST. & MONITORING RACK AND FLASHERS. SEE DWG. SYSTEM WIRING DIAGRAM - 1 & - 2.
- INSTALL ㉖ 3-1/2" *2 TYPE U.S.E. & 1-*6 GREEN GND TO RAIL FLASHER STA 133+20.
- INSTALL ㉗ 3-1/2" *2/0 TYPE U.S.E. TO INTERFACE JUNCTION BOX ON THE MALSR MONITORING RACK.
- INSTALL ㉘ 2" DIA GRS CONDUITS TRANSITIONING TO PVC BELOW GRADE & 5' BEYOND COUNTERPOISE.
- INSTALL ㉙ 1" GRS CONDUIT WITH SWEEP ELBOW AND GROUNDING BUSHING, CARRYING ⑦ TO ③.
- INSTALL ㉚ 3" DIA. - 36" GRS SWEEPS TRANSITIONING TO 3" DIA. SCH. 40 PVC CONDUIT. SEE CONTRACTOR COORDINATION NOTE ON 10' x 12' MALSR SHELTER DETAIL - 2.
- INSTALL ㉛ SALVAGED RADIO RCVR CONTROLLER RC-IT5A AND ASSOCIATED ROOF MOUNTED ANTENNA. CONTRACTOR SHALL SUPPLY AND INSTALL A NEW ANTENNA, CONTROL INDUSTRIES *ASP7A WITH COAX. RG-214/U CABLE CONNECTION. (SEE NOTE 6)
- INSTALL ㉜ MAIN GROUND PLATE PER GROUND PLATES AND COVERS DWG.
- INSTALL ㉝ BOND ALL UNDERGROUND CONDUIT ENDS TO *4/0 COUNTERPOISE AS REQUIRED BY NOTE 7.
- INSTALL ㉞ HEAVY DUTY, NEMA 1, 240V, 200A, 2 POLE, 3 WIRE SERVICE ENTRANCE DISCONNECT SWITCH SQUARE "D" CAT NO. H224A, WITH FIELD INSTALLABLE SOLID NEUTRAL ASSEMBLY CAT NO. H200 SN. INSTALL SEPARATE TERMINATING LUGS FOR SURGE ARRESTER.
- INSTALL ㉟ 1" CONDUIT
- INSTALL ㊱ SALVAGED REMOTE RADIO INTERFACE CONTROL UNIT
- INSTALL ㊲ SALVAGED REMOTE RADIO CONTROL GROUND-TO-GROUND (G-G) DECODER UNIT.
- INSTALL ㊳ SALVAGED REMOTE RADIO CONTROL GROUND-TO-GROUND (G-G) RECEIVER UNIT.

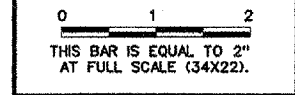
NOTES: CONSTRUCTION SHALL BE DONE SUCH THAT:

1. ALL HEATING AND VENTILATING COMPONENTS ARE INSTALLED AND CONNECTED PER HEATER & FAN VENTILATION WIRING DWG.
2. ALL CONDUIT, RECEPTACLES, LIGHT FIXTURES, HEATER, POWER PANEL, AND ENVIRONMENTAL PANEL ARE SURFACE MOUNTED.
3. ALL WALL PENETRATIONS ARE CAULKED WITH SILICONE CAULK.
4. INTAKE FILTER IS REMOVABLE WITHOUT TOOLS, IS STANDARD SIZE FILTERS AND IS TOTALLY PROTECTED BY THE HOOD AGAINST WATER RUNOFF.
5. LEAVE 15' CABLE TAILS OF 12 PR #19.
6. THE TOP OF THIS ANTENNA SUPPORT IS AT THE SAME ELEVATION AS THE SHELTER ROOF PEAK.
7. EACH GALVANIZED RIGID STEEL (GRS) CONDUIT ENTERING OR EXITING THE SHELTER, IS GROUNDED TO A SHELTER GROUND ELECTRODE OR TO THE *4/0 COUNTERPOISE. THE CONDUIT SHALL BE CONNECTED IN EITHER OF THE TWO FOLLOWING WAYS:
 - A. A GROUNDING CONNECTOR CONNECTED TO THE CONDUIT AND TO THE *4/0 COPPER COUNTERPOISE, SIZED FOR BOTH, AND DESIGNED FOR EARTH BURIAL. ACCEPTABLE CONNECTORS ARE BURNDY CAT. NO. GAR1829 FOR 2" CONDUIT OR GAR1929 FOR 1/2" CONDUIT, OR EQUIVALENT.
 - B. A GROUNDING CONNECTOR CONNECTED TO THE CONDUIT AND TO AN INTERMEDIATE *2 BARE COPPER GROUNDING CONDUCTOR. IN THIS CASE, THE CONNECTOR MUST BE SIZED TO FIT THE CONDUIT AND THE *2 GROUNDING CONDUCTOR, AND BE DESIGNED FOR EARTH BURIAL. ACCEPTABLE CONNECTORS ARE BURNDY CAT. NO. GAR1826 FOR 2" CONDUIT OR GAR1926 FOR 2 1/2" CONDUIT. THE *2 GROUNDING CONDUCTOR MUST BE EXOTHERMICALLY WELDED TO A SHELTER GROUNDING ELECTRODE OR TO THE *4/0 COUNTERPOISE. THE GROUNDING CONDUCTOR MAY PASS THROUGH ONE OR MORE GROUNDING CONNECTORS ON GRS CONDUITS.



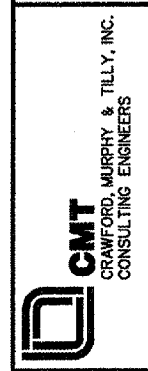
DETAIL "1" POWER PANEL
 (W/ 20,000 RMS RATED BREAKERS)

REVISIONS		
NUMBER	BY	DATE



BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS

10'X12' MALSR SHELTER - 3



DESIGN BY:	TM
DRAWN BY:	CMT
CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	12/25/2004
JOB No:	030850300

12/23/2004 K:\Bloomington\0308503\draw\sheets\1012_MALSR_SHELTER_3.dgn