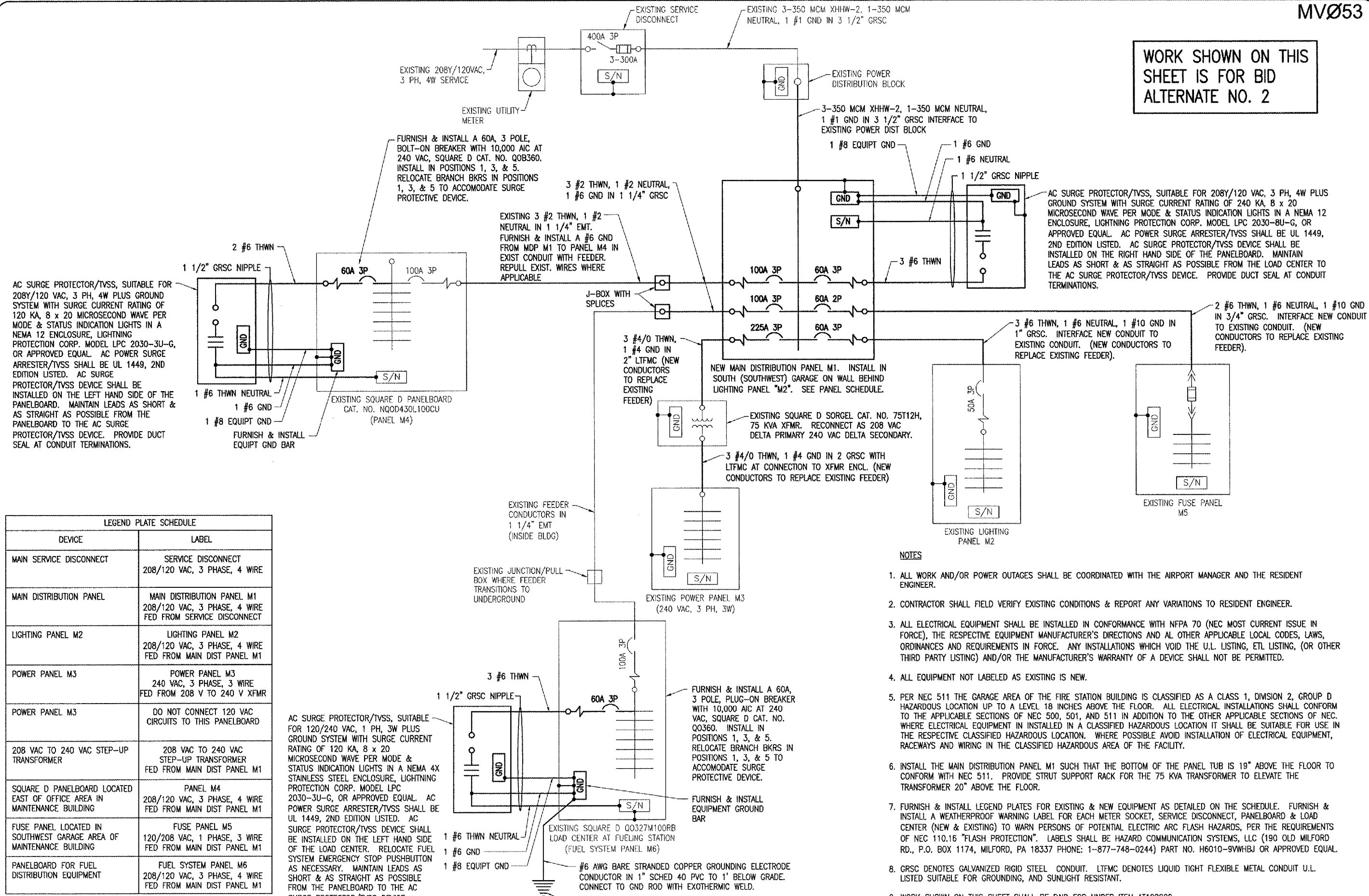


WORK SHOWN ON THIS SHEET IS FOR BID ALTERNATE NO. 2



LEGEND PLATE SCHEDULE	
DEVICE	LABEL
MAIN SERVICE DISCONNECT	SERVICE DISCONNECT 208/120 VAC, 3 PHASE, 4 WIRE
MAIN DISTRIBUTION PANEL	MAIN DISTRIBUTION PANEL M1 208/120 VAC, 3 PHASE, 4 WIRE FED FROM SERVICE DISCONNECT
LIGHTING PANEL M2	LIGHTING PANEL M2 208/120 VAC, 3 PHASE, 4 WIRE FED FROM MAIN DIST PANEL M1
POWER PANEL M3	POWER PANEL M3 240 VAC, 3 PHASE, 3 WIRE FED FROM 208 V TO 240 V XFMR
POWER PANEL M3	DO NOT CONNECT 120 VAC CIRCUITS TO THIS PANELBOARD
208 VAC TO 240 VAC STEP-UP TRANSFORMER	208 VAC TO 240 VAC STEP-UP TRANSFORMER FED FROM MAIN DIST PANEL M1
SQUARE D PANELBOARD LOCATED EAST OF OFFICE AREA IN MAINTENANCE BUILDING	PANEL M4 208/120 VAC, 3 PHASE, 4 WIRE FED FROM MAIN DIST PANEL M1
FUSE PANEL LOCATED IN SOUTHWEST GARAGE AREA OF MAINTENANCE BUILDING	FUSE PANEL M5 120/208 VAC, 1 PHASE, 3 WIRE FED FROM MAIN DIST PANEL M1
PANELBOARD FOR FUEL DISTRIBUTION EQUIPMENT	FUEL SYSTEM PANEL M6 208/120 VAC, 3 PHASE, 4 WIRE FED FROM MAIN DIST PANEL M1

AC SURGE PROTECTOR/TVSS, SUITABLE FOR 120/240 VAC, 1 PH, 3W PLUS GROUND SYSTEM WITH SURGE CURRENT RATING OF 120 KA, 8 x 20 MICROSECOND WAVE PER MODE & STATUS INDICATION LIGHTS IN A NEMA 4X STAINLESS STEEL ENCLOSURE, LIGHTNING PROTECTION CORP. MODEL LPC 2030-3U-G, OR APPROVED EQUAL. AC POWER SURGE ARRESTER/TVSS SHALL BE UL 1449, 2ND EDITION LISTED. AC SURGE PROTECTOR/TVSS DEVICE SHALL BE INSTALLED ON THE LEFT HAND SIDE OF THE LOAD CENTER. RELOCATE FUEL SYSTEM EMERGENCY STOP PUSHBUTTON AS NECESSARY. MAINTAIN LEADS AS SHORT & AS STRAIGHT AS POSSIBLE FROM THE PANELBOARD TO THE AC SURGE PROTECTOR/TVSS DEVICE. PROVIDE DUCT SEAL AT CONDUIT TERMINATIONS.

NOTES

- ALL WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER AND THE RESIDENT ENGINEER.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & REPORT ANY VARIATIONS TO RESIDENT ENGINEER.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (NEC MOST CURRENT ISSUE IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
- ALL EQUIPMENT NOT LABELED AS EXISTING IS NEW.
- PER NEC 511 THE GARAGE AREA OF THE FIRE STATION BUILDING IS CLASSIFIED AS A CLASS 1, DIVISION 2, GROUP D HAZARDOUS LOCATION UP TO A LEVEL 18 INCHES ABOVE THE FLOOR. ALL ELECTRICAL INSTALLATIONS SHALL CONFORM TO THE APPLICABLE SECTIONS OF NEC 500, 501, AND 511 IN ADDITION TO THE OTHER APPLICABLE SECTIONS OF NEC. WHERE ELECTRICAL EQUIPMENT IS INSTALLED IN A CLASSIFIED HAZARDOUS LOCATION IT SHALL BE SUITABLE FOR USE IN THE RESPECTIVE CLASSIFIED HAZARDOUS LOCATION. WHERE POSSIBLE AVOID INSTALLATION OF ELECTRICAL EQUIPMENT, RACEWAYS AND WIRING IN THE CLASSIFIED HAZARDOUS AREA OF THE FACILITY.
- INSTALL THE MAIN DISTRIBUTION PANEL M1 SUCH THAT THE BOTTOM OF THE PANEL TUB IS 19" ABOVE THE FLOOR TO CONFORM WITH NEC 511. PROVIDE STRUT SUPPORT RACK FOR THE 75 KVA TRANSFORMER TO ELEVATE THE TRANSFORMER 20" ABOVE THE FLOOR.
- FURNISH & INSTALL LEGEND PLATES FOR EXISTING & NEW EQUIPMENT AS DETAILED ON THE SCHEDULE. FURNISH & INSTALL A WEATHERPROOF WARNING LABEL FOR EACH METER SOCKET, SERVICE DISCONNECT, PANELBOARD & LOAD CENTER (NEW & EXISTING) TO WARN PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS, PER THE REQUIREMENTS OF NEC 110.16 "FLASH PROTECTION". LABELS SHALL BE HAZARD COMMUNICATION SYSTEMS, LLC (190 OLD MILFORD RD., P.O. BOX 1174, MILFORD, PA 18337 PHONE: 1-877-748-0244) PART NO. H6010-9VWHBJ OR APPROVED EQUAL.
- GRSC DENOTES GALVANIZED RIGID STEEL CONDUIT. LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT U.L. LISTED SUITABLE FOR GROUNDING, AND SUNLIGHT RESISTANT.
- WORK SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER ITEM AT109200.

NOTE: LEGEND PLATES SHALL BE WEATHERPROOF ENGRAVED PLASTIC OR PHENOLIC MATERIAL, 1/4" HIGH BLACK LETTERS ON A WHITE BACKGROUND. SECURE WITH WEATHERPROOF ADHESIVE AND MACHINE SCREWS.

NEW ELECTRICAL ONE LINE DIAGRAM FOR MAINTENANCE BUILDING

BY	
REVISION	
DATE	
MT. VERNON AIRPORT MT. VERNON, ILLINOIS A.I.P. PROJ.: 3-17-00XX-XX I.L. PROJ.: MW-XXXX	
H.E. Project No. 819-05RWD 0800 Designer: E-605.DWG Scale: NONE Date:	KNL 12/13/04 MW 12/13/04 CAH 01/14/05
HANSON Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide	
REHABILITATE RUNWAY 5-23 NEW ELECTRICAL ONE LINE DIAGRAM FOR MAINTENANCE BUILDING	
22 22 of 27 sheets	