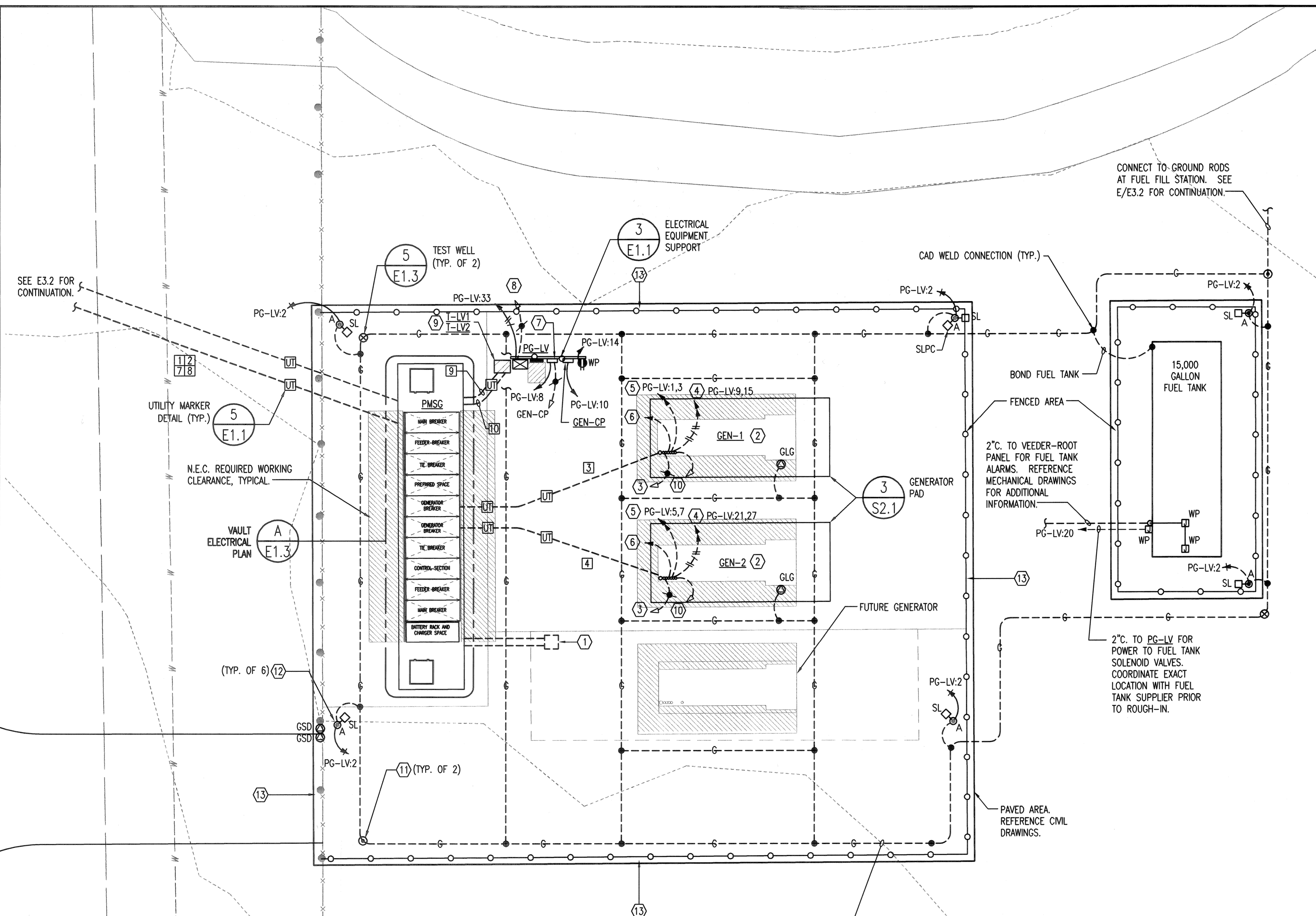


ELECTRICAL SITE PLAN NOTES:

- UNLESS OTHERWISE NOTED, ALL CONDUIT ROUTED ON SITE SHALL BE 1" MINIMUM.
- ALL RISERS SHALL BE PVC COATED RIGID GALVANIZED STEEL (RGS) ALL ELLS BELOW GRADE SHALL BE PVC COATED RIGID GALVANIZED STEEL (RGS), PROVIDE WITH PVC TO STEEL ADAPTER(S) AS NECESSARY. (THIS REQUIREMENT SHALL NOT APPLY TO FIXTURE POLE BASES)
- ALL ELECTRICAL WORK AND FEES ASSOCIATED WITH UTILITIES SHALL BE VERIFIED AND COORDINATED WITH LOCAL SERVICE PROVIDER PRIOR TO BID.
- CONTRACTOR SHALL REFERENCE ALL RELATED CONTRACT DOCUMENTS, SITE SURVEY, AND OTHER RESOURCES FOR POSSIBLE CONFLICTS WITH OTHER UNDERGROUND UTILITIES. AT UTILITY CROSSINGS, CONTRACTOR SHALL VERIFY UTILITY DEPTHS AND COORDINATE CONDUIT ROUTING AS NECESSARY.
- CONTRACTOR SHALL VERIFY AND COORDINATE EXISTING CONDITIONS OF PROJECT SITE PRIOR TO BID.
- ALL ELECTRICAL EQUIPMENT SHALL BE BONDED TO THE GROUNDING GRID.

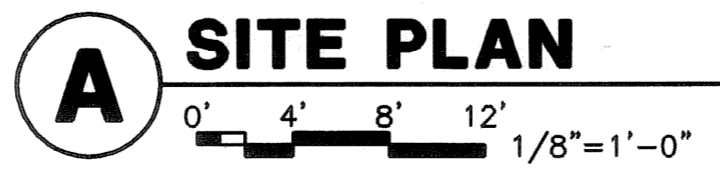
KEYED NOTES:

- PROVIDE IN-GRADE WEATHERPROOF JUNCTION BOX IN UNPAVED AREA FOR CONNECTION TO FUTURE GENERATOR. PROVIDE (1) SPARE 4", (1) SPARE 2", AND (6) SPARE 1" CONDUITS WITH PULL ROPES FROM JUNCTION BOX TO PAD-MOUNTED SWITCHGEAR VAULT. CAP BOTH ENDS.
- VERIFY EXACT LOCATION OF ALL CONDUITS BEING STUBBED UP FROM BELOW GENERATOR WITH GENERATOR MANUFACTURER PRIOR TO ROUGH-IN.
- 2" C. FROM GENERATOR CONTROLLER TO PMSG CONTROLS FOR CONTROL AND MONITORING OF GENERATOR. VERIFY EXACT CONDUIT AND CABLING REQUIREMENTS WITH GENERATOR MANUFACTURER PRIOR TO ROUGH-IN.
- 6#12,#12IG IN 1" C. FOR BLOCK HEATER. VERIFY CONDUCTOR, CONDUIT, AND OVERCURRENT SIZE WITH EQUIPMENT PROVIDED.
- 4#12,#12IG IN 1" C. FOR BATTERY CHARGERS. VERIFY CONDUCTOR, CONDUIT, AND OVERCURRENT SIZE WITH EQUIPMENT PROVIDED.
- 1" SPARE CONDUIT TO PG-LV.
- VEEDER-ROOT TANK AND PIPING MONITORING CONTROL PANEL IN NEMA 4 ENCLOSURE. PROVIDE ALL CONDUIT AND WIRING REQUIRED FROM CONTROL PANEL TO THE 15,000 GALLON ABOVE GROUND DIESEL FUEL STORAGE TANK FOR MONITORING AND CONTROLS. CONTROL PANEL SHALL PROVIDE CONTINUOUS LEAK SENSING FOR INTERSTITIAL SPACE, PIPING SUMP, LEAK, OVERFILL, LOW LEVEL, SUDDEN LOSS, HIGH WATER, DELIVERY NEEDED, TEST FAILURE, TANK TEST NOT PERFORMED, AND LEVEL SENSING. UNIT SHALL COMMUNICATE WITH GEN-CP VIA MODBUS TCP/IP COMMUNICATION INTERFACE. COORDINATE COMMUNICATIONS INTERFACE WITH SYSTEMS INTEGRATOR.
- 1" C. FROM ATS TO PMSG CONTROLS FOR CONTROL AND MONITORING OF HOUSE PANEL ATS. VERIFY EXACT CONDUIT AND CABLING REQUIREMENTS WITH ATS MANUFACTURER PRIOR TO ROUGH-IN.
- T-LV1 MOUNTED ABOVE T-LV2. PROVIDE ALUMINUM OR STAINLESS STEEL EQUIPMENT STAND WITH 3-1/2" HOUSEKEEPING PAD.
- 1" C. FROM GENERATOR CONTROLLER TO GEN-CP FOR MONITORING OF GENERATOR.
- 3/4" X 20' COPPER CLAD GROUND ROD. CADWELDED TO GROUND LOOP.
- 'A': 25' RTS POLE WITH SOLID COPPER AIR TERMINAL AND BARE COPPER GROUND TO GROUND LOOP. SEE DETAIL 1/E1.2 FOR ADDITIONAL INFORMATION. VERIFY ALL REQUIREMENTS AND QUANTITIES WITH LIGHTNING PROTECTION DESIGNER PRIOR TO BID. PROPOSED LAYOUT DESIGNED AROUND THOMPSON LIGHTNING PROTECTION.
- CAUTION SIGN PER 263213.



#4/0 BARE CU GROUNDING GRID. ROUTE CONDUCTOR AROUND PERIMETER OF GENERATOR STATION APPROXIMATELY 3'-4" FROM FOUNDATION APPROXIMATELY 24"-36" DEEP. PROVIDE 20'-0" COPPER CLAD GROUND RODS AT LOCATIONS AS SHOWN. ALL CONNECTIONS SHALL BE CAD WELDED. PROVIDE TEST WELLS AT LOCATIONS AS SHOWN TO BE USED TO TEST SYSTEM.

ENLARGED ELECTRICAL SITE PLAN



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 Rev. Scale 1/2"=1'-0" 10:43:41 AM by CHRIS WALL
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	Revision		By	Date
	CITY OF WICHITA, KANSAS			
	ENLARGED ELECTRICAL SITE PLAN			
	WWP #2 EMERGENCY POWER PROJECT C.O.W. PROJECT NO. 468-84956			
	PROFESSIONAL ENGINEERING CONSULTANTS, P.A. 303 SOUTH TOPEKA WICHITA, KS 67202 316-262-2691 www.pec1.com			
	Designed by	RWW	Job No. 34-14229-001-0042	Sht. E3.3 of 36
Drawn by	CJV	Date 2/23/15		