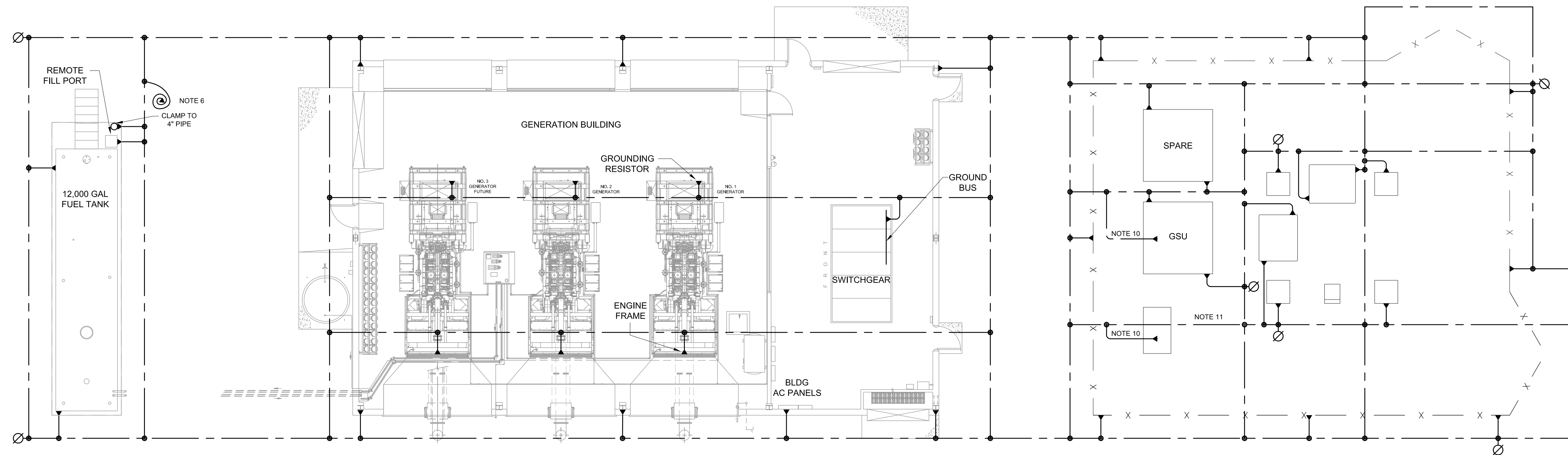


NOTES:

1. ABOVE GRADE SUBSTATION GROUNDING MATERIALS SHALL BE SUPPLIED BY OVERHEAD STRUCTURES AND EQUIPMENT CONTRACTOR AND INSTALLED BY THE SUBSTATION CONSTRUCTION CONTRACTOR. THE GENERAL CONSTRUCTION CONTRACTOR SHALL FURNISH AND INSTALL ALL OTHER GROUNDING MATERIALS, INCLUDING GROUND RODS; BELOW GRADE CONDUCTOR AND CONNECTIONS; EQUIPMENT STINGERS; AND CONNECTIONS TO FENCE, FUEL TANK, AND BUILDING. GENERAL CONSTRUCTION CONTRACTOR TO COIL 5' OF 4/0 CU AT EACH STEEL COLUMN, POWER TRANSFORMER, AND CIRCUIT BREAKERS AT LOCATIONS SHOWN BY STINGERS.
2. LOOP GROUND CONDUCTOR UP COLUMN, ACROSS BEAM, CONNECTING TO SURGE ARRESTERS AND VTS, AND DOWN OPPOSITE COLUMN.
3. OUTSIDE BELOW GRADE GROUND CONDUCTOR TO BE LOCATED 3' INSIDE AND OUTSIDE FENCE LINE, AND 3' OUTSIDE BUILDING FOUNDATION.
4. ALL GROUND GRID CONDUCTORS SHALL BE 18" MIN. BELOW GRADE, NOT INCLUDING CRUSHED ROCK.
5. FENCE GROUND CONNECTIONS SHOULD BE AT APPROXIMATELY 40' INTERVALS.
6. COIL 30' OF NO. 4 AWG SUPER-FLEX ARC WELD CABLE WITH NEOPRENE JACKET. TERMINATE WITH TRUCK GROUNDING CLAMP BURNDY TYPE GIE-G OR ACCEPTABLE EQUAL. PROVIDE A STANCHION WITH PEG TO HANG COILED CABLE WHEN NOT IN USE.
7. ALL STINGERS ARE TO HAVE 5'-0" LENGTH OF CONDUCTOR ABOVE FINAL GRADE COILED UP AND LAID ON FOUNDATION. STINGERS FOR FUTURE EQUIPMENT SHALL BE COVERED WITH WARNING CONES PAINTED SAFETY ORANGE OR YELLOW.
8. STINGERS THROUGH CONCRETE FLOOR TO RUN THROUGH 6" LONG PVC "KICK-SLEEVE" CAST IN FLOOR SURFACE. COORDINATE INSTALLATION WITH FOUNDATION EXCAVATION AND FORMING.
9. EQUIPMENT GROUNDING CONNECTIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL EQUIPMENT GROUNDING LOCATIONS.
10. EXTEND STINGER THROUGH PAD STUB-UP AREA. CONNECT CABLE SHIELD TO GROUND GRID.
11. INSTALL GROUND GRID UNDER OIL CONTAINMENT AREA BEFORE INSTALLING TRANSFORMER PADS AND OIL CONTAINMENT.

LEGEND:

- Ø 3/4" x 10' GROUND ROD
- EXOTHERMIC WELD
- — — NO. 4/0 AWG BARE STRANDED S.D. COPPER
- — — NO. 4/0 AWG CU STINGER TO BE BOLTED TO STEEL, EQUIPMENT OR GROUNDING PLATFORM
- x - FENCE
- — — FOUNDATIONS



GROUND PLAN
SCALE: 1/8"=1'-0"

Feb 22, 2017 - 1:39pm \\192.168.1.3\Company\Directory\CAD-Data\Georgetown\Generation Plant\E13 Generation Grounding Plan.dwg Layout: E13

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION REVISION 2/22/17			CITY OF GEORGETOWN SOUTH CAROLINA PEAK SHAVING GENERATION PLANT GROUNDING PLAN		
UTEC UTILITY TECHNOLOGY ENGINEERS - CONSULTANTS P.O. Box 2629 • Asheboro, North Carolina • 27204			DWN: SFLMNG DATE: 2/22/17 DWG. NO.: E13 SCALE: NOTED JOB NO.: 13101 SHEET NO.: 1 OF 1		
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NO.	REVISIONS	DATE			