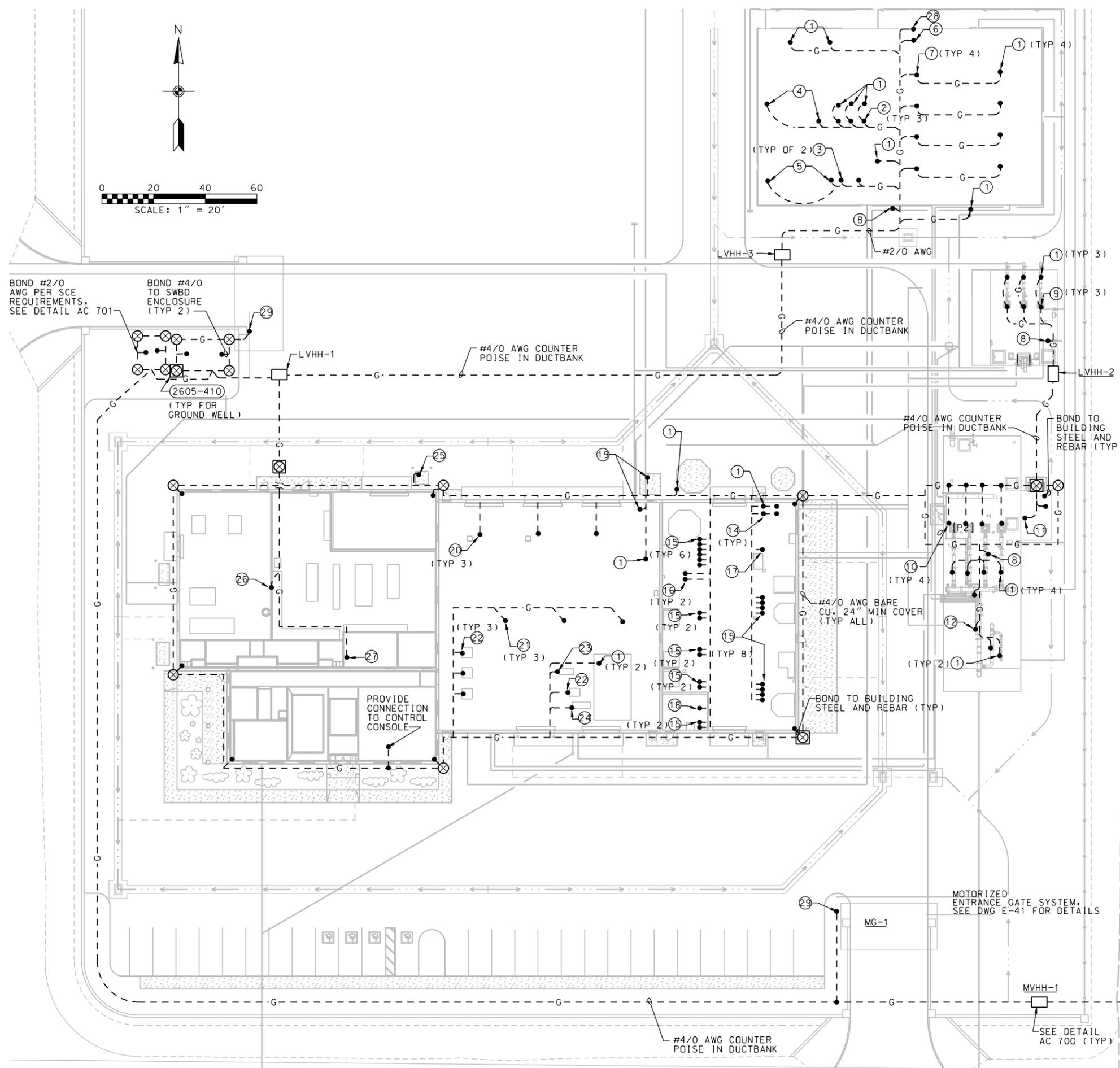
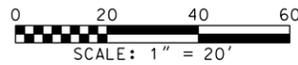


PLOT DATE: 2/19/2010 PLOT TIME: 11:06:51 AM

NDM-SCO-EMWD USACE PERRIS II/ PDF.e120d.dgn

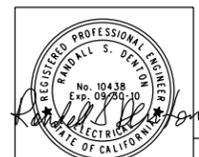


NOTES:

1. ALL GROUNDING PIGTAIL LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH EQUIPMENT TO BE INSTALLED.
2. ALL GROUNDING PIGTAILS SHALL BE COILED AND PROTECTED UNTIL FINAL BONDING TO THE DESIGNATED EQUIPMENT IS COMPLETE.
3. GROUNDING PIGTAIL LENGTHS ABOVE FINISHED GRADE WILL BE MINIMIZED TO THE EXTENT POSSIBLE TO PREVENT TRIPPING HAZARDS.
4. ALL LOOSE PIGTAIL LENGTHS SHALL BE SECURED AND ATTACHED BY STRAPS OR OTHER MEANS AT INTERVALS NOT TO EXCEED 12 INCHES ON CENTER.
5. CONTRACTOR SHALL FIELD VERIFY ALL GROUNDING AND BONDING METHODS TO SUIT SPECIFIC EQUIPMENT REQUIREMENTS AND LIMITATIONS.
6. REFER TO SPECIFICATION SECTION 28 05 26.00 40 - GROUNDING AND BONDING FOR ELECTRONIC SAFETY AND SECURITY.
7. REFER TO SPECIFICATION SECTION 26 41 00.00 40 FACILITY LIGHTNING PROTECTION FOR ADDITIONAL GROUNDING REQUIREMENTS.

EQUIPMENT GROUNDING IDENTIFICATION:

- ① MAGNETIC FLOW METER. BOND TO GROUNDING RINGS. REFER TO DETAIL 4091-211 - MAGNETIC FLOW METER INSTALLATION.
- ② RECLAIM PUMPS.
- ③ BACKWASH PUMPS.
- ④ RECLAIM TANK. BOND PER MANUFACTURERS SPECIFICATIONS.
- ⑤ BACKWASH TANK. BOND PER MANUFACTURERS SPECIFICATIONS.
- ⑥ MCP-900. BOND TO CONTROL PANEL ENCLOSURE.
- ⑦ IRON MANGANESE FILTER VESSEL. BOND AS PER MANUFACTURER'S REQUIREMENT.
- ⑧ BOTTOM REBAR MAT.
- ⑨ CONCENTRATE PUMPS.
- ⑩ FINISHED WATER PUMPS.
- ⑪ SWITCHBOARD SB-DS3 GROUND BUS IN FWPS ELECTRICAL ROOM.
- ⑫ STATIC MIXER.
- ⑬ SODIUM HYPOCHLORITE GENERATORS.
- ⑭ SODIUM HYPOCHLORITE RECTIFIERS.
- ⑮ CHEMICAL FEED PUMPS.
- ⑯ SODIUM HYPOCHLORITE BLOWERS
- ⑰ RIO-240. BOND TO CONTROL PANEL ENCLOSURE.
- ⑱ SULFURIC ACID TANK FUTURE. GROUNDING AND BONDING TO THE BACKWASH TANK SHALL BE ACCOMPLISHED WITH A THREADED BOLT TO THE TANK SUPPORT SADDLE.
- ⑲ DECARBONATOR.
- ⑳ RO TRAIN SKIDS. COORDINATE BONDING LOCATION WITH RO TRAIN SKID SUPPLIER.
- ㉑ RO FEED PUMPS
- ㉒ CARTRIDGE FILTER VESSEL. BOND AS PER MANUFACTURER'S REQUIREMENT.
- ㉓ RO FLUSH PUMP.
- ㉔ CLEANING PUMP.
- ㉕ ANTENNA FOR RTU.
- ㉖ SWITCHBOARD SB-DS2 GROUND BUS IN OPS BLDG ELECTRICAL ROOM.
- ㉗ GROUND BUS IN OPS BLDG COMMUNICATION ROOM.
- ㉘ FE/MN AREA CANOPY COLUMN.
- ㉙ MOTORIZED GATE OPERATOR.



DATE: 10/05/09

E-2 SHEET 147 OF 226 SHEETS

DESIGNED BY: A. MATHEWS
 DRAWN BY: J. HAWKER
 CHECKED BY: R. DENTON

U.S. ARMY ENGINEER DISTRICT
 LOS ANGELES
 CORPS OF ENGINEERS

EASTERN MUNICIPAL WATER DISTRICT
 PERRIS II DESALINATION FACILITY
 PERRIS, CALIFORNIA

SUBMITTED BY: ART JUNG, P.E.
CHEF, DESIGN BRANCH

L.A. DISTRICT FILE NO. XXX-XXXX SPEC. NO. : NOT APPLICABLE CADD FILE NAME: PDF.e120d.dgn

SYMBOL	DESCRIPTIONS	REVISIONS

DATE	APPROVAL

GROUNDING PLAN