



**GENERAL NOTES**

- A. LIGHTNING PROTECTION SYSTEM SHOWN FOR GENERAL INFORMATION ONLY. STRUCTURE TO BE PROVIDED WITH LIGHTNING PROTECTION SYSTEM DESIGNED AND INSTALLED IN ACCORDANCE WITH SPECIFICATION SECTION 13100. NFPA 780 AND UL STANDARD 96A.
- B. DUE TO PROPOSED HOIST/Crane ARRANGEMENTS FOR BUILDING, THE CEILING AREA MUST BE KEPT CLEAR, AND NO ELECTRICAL EQUIPMENT OR SUPPORTS CAN BE ATTACHED TO THE CEILING.

**KEYED NOTES**

- 1 PUMPING AND DISINFECTION (P&D) BUILDING FEEDER FROM EQUIPMENT AND MAINTENANCE (E&M) BUILDING: (3) 2.5" C. + (1) SPARE 2.5" C.
- 2 SCADA/COMM LINES FROM E&M BUILDING: (2) 2" C.
- 3 P&D FEEDER FROM GENSET #2: (2) 3" C. + (1) SPARE 3" C.
- 4 GENSET #2 CONTROL AND MONITORING, AND GROUNDING ELECTRODE: (4) 3/4" C.
- 5 GENSET #2 EPO AND REMOTE ANNUNCIATOR: (1) 3/4" C.
- 6 GENSET #2 AUXILIARY POWER SUPPLY: (1) 3/4" C.
- 7 DRILLED PIER PER STRUCTURAL DRAWINGS. SEE SHEET PD-3 FOR EXACT LOCATION.
- 8 SCADA SYSTEM RUNS TO PUMP ROOM (4) 2" C. EXTEND TO PUMP ROOM WALL SURFACE.
- 9 480V CIRCUITS TO PUMP ROOM: (8) 1" C. EXTEND TO PUMP ROOM WALL SURFACE.
- 10 120/208 CIRCUITS TO PUMP ROOM: (8) 1" C. EXTEND TO PUMP ROOM WALL SURFACE.
- 11 FEEDER AND CONTROLS TO WELL PUMP: (3) 3/4" C.
- 12 FEEDERS AND CONTROLS TO SECONDARY CLARIFIERS: (6) 3/4" C. AND (2) 1.5" C.
- 13 PROTECTIVE BOLLARD.
- 14 FEEDER FROM ATS TO PD-MCCA: (2) 3" C. EXTEND TO PUMP ROOM WALL SURFACE.
- 15 ALL WALL AND SLAB PENETRATIONS FOR CONDUIT/CONDUCTOR RUNS SHALL BE SLEEVED ACCORDING TO DETAILS ON THE STRUCTURAL FOUNDATION PLAN AND THE FOLLOWING SCHEDULE:

CONDUIT SIZE (IN.)	SLEEVE SIZE (IN.)
3/4"	2"
1"	2"
1.5"	3"
2"	3"
2.5"	4"
3"	4"
3.5"	6"
4"	6"

- 16 GENSET #2 GROUNDING ELECTRODE CONDUCTOR FROM GENSET TO GROUND BAR: 3/4" C.
- 17 APPROXIMATE LOCATION FOR HANDHOLE FOR P&D BUILDING FEEDER. SEE SHEET ESP1 FOR SPECIFICATIONS.
- 18 FEEDER FROM PD-MCCA TO SC-H1: (1) 1.5" C.
- 19 FEEDER FROM PD-MCCA TO PD-H1: (1) 1.5" C.
- 20 277/480V BRANCH CIRCUITS TO SECONDARY CLARIFIERS: (4) 3/4" C. EXTEND TO PUMP ROOM WALL SURFACE.
- 21 120/208V BRANCH CIRCUITS TO SECONDARY CLARIFIERS: (5) 3/4" C. EXTEND TO PUMP ROOM WALL SURFACE.

**CONSTRUCTION NOTE:**

- 1. ALL ELECTRICAL CONDUIT(S) SHALL BE RUN BELOW FOUNDATION WALLS AND SHALL NOT PENETRATE ANY FOUNDATION WALL. ONCE PAST THE FACE OF FOUNDATION WALL, THE CONDUIT(S) MAY BE DEFLECTED VERTICALLY TO ACHIEVE THE DEPTH OF COVER INDICATED ON THE TYPICAL TRENCH DETAILS LOCATED ON SHEET ESP-2.

**1 PUMPING AND DISINFECTION BUILDING ELECTRICAL FOUNDATION PLAN**

SCALE: SCALE: 1/4" = 1'-0"

REVISIONS		
NO.	DATE	DESCRIPTION
1	09/16/2011	ISSUED FOR CMO PREPARATION (PUMPING AND DISINFECTION BUILDING FOUNDATION)
2	09/22/2011	ISSUED FOR FOUNDATION PERMIT SUBMITTAL TO PPRBD (PUMPING AND DISINFECTION BLDG)
3	10/17/2011	ISSUED FOR CONSTRUCTION PER PPRBD FOUNDATION PERMIT #8993 (PUMP AND DISINFECTION BLDG)
4	11/22/2011	REVISE CONDUIT REQUIREMENTS INTO PUMP ROOM
5	01/29/2012	ISSUED FOR PD BUILDING VALUE ENGINEERING REVIEW AND COMMENTS
6	04/18/2012	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PPRBD (PUMPING AND DISINFECTION BLDG)
7	05/21/2012	ISSUED FOR CONSTRUCTION PER PPRBD BLDG PERMIT #8993 (PUMP AND DISINFECTION BLDG)

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<b>ELECTRICAL FOUNDATION PLAN</b> <b>PUMPING AND DISINFECTION BUILDING</b> HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT		<b>GMS, INC.</b> CONSULTING ENGINEERS 611 N. WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903	SHEET <b>EPD-4</b> OF -
DRAWN: XXXX DESIGNED: XXXX CHECKED: XXXX DATE: 2011 PROJECT NO.: 20166.330 GMS FILE NO.: 2599			

XREF FILENAME: G:\  
 BASE DWG: G:\  
 PLOT STYLE FILE: 10500.dwg  
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