



GENERAL NOTES

1. CONDUIT IN THE PROCESS AREA SHALL BE RIGID ALUMINUM SUITABLE FOR INSTALLATIONS IDENTIFIED AS CLASS 1, DIVISION 2. PVC COATED RIGID GALVANIZED STEEL MAY BE USED, RIGID GALVANIZED STEEL CONDUIT IS NOT ACCEPTABLE FOR THIS AREA. IN ADDITION TO SUITABILITY FOR CLASS 1 DIVISION 2 CODE COMPLIANCE, ALL CONDUIT AND DEVICES SHALL BE CORROSION RESISTANT TO A MOIST HYDROGEN SULFIDE ATMOSPHERE.
2. LUMINAIRES SHALL BE RIGIDLY SUPPORTED AND CROSS-BRACED TO MINIMIZE SWAY.
3. WIRING IN THE PROCESS AREA SHALL CONFORM TO THE NEC REQUIREMENTS FOR CLASS 1, DIVISION 2 GROUP C AREAS. WIRING IN THE ELECTRICAL AND CONTROL ROOM IS UNCLASSIFIED.
4. WHERE INDICATED ON PLAN, FIXTURES SHALL BE HUNG TO THE GIVEN MOUNTING HEIGHT ABOVE FINISH FLOOR.

KEYED NOTES

1. PRELIMINARY TREATMENT AREA IS CLASS 1, DIVISION 2, GROUP C, D LOCATIONS. ALL ELECTRICAL EQUIPMENT AND WIRING METHODS SHALL COMPLY WITH NEC REQUIREMENTS.
2. LOCKABLE EMERGENCY POWER-OFF BUTTONS FOR EQUIPMENT IN PRELIMINARY TREATMENT AREA SUITABLE FOR CLASS 1, DIV. 2 ENVIRONMENT. INTERLOCK WITH CORRESPONDING CONTROLLERS IN ELECTRICAL AND CONTROL ROOM. UNO. THE LCP ASSOCIATED WITH THE MOTOR SHALL BE PROVIDED WITH A LOCKABLE DISCONNECTING MEANS CONFORMING TO THE REQUIREMENTS OF NEC-430.102(A) AND 430.102(B).
3. PANEL HW-H1
4. TRANSFORMER
5. PANEL HW-L1
6. SCADA/DATA PANEL
7. LCP SC-1 (SCREEN NO. 1)
8. LCP SW-1 (SCREENINGS WASHER/COMPACTOR NO. 1)
9. LCP SC-2 (SCREEN NO. 2)
10. LCP SW-2 (SCREENINGS WASHER/COMPACTOR NO. 2)
11. LCP GC-1 (GRIT COLLECTOR NO. 1)
12. LCP GC-2 (GRIT COLLECTOR NO. 2)
13. LCP GP-1 (GRIT PUMP NO. 1)
14. LCP GP-2 (GRIT PUMP NO. 2)
15. LCP GW-1 (GRIT WASHER/CLASSIFIER)
16. LCP CV-1 (SCREENINGS CONVEYOR)
17. MAIN GROUND BAR, 12"L X 2"W X 1/4"THK COPPER. MOUNTED WITH INSULATED STAND-OFFS.
18. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR INTERCONNECTING WIRING BETWEEN DSCU-1 AND DSCF-1.
19. IN-CHANNEL DOWNSTREAM ULTRASONIC LEVEL SENSOR FOR SCREEN.
20. IN-CHANNEL UPSTREAM ULTRASONIC LEVEL SENSOR FOR SCREEN.
21. IN-CHANNEL HIGH WATER LEVEL ALARM FLOAT.
22. OXYGEN SENSOR, MOUNTING HEIGHT AS INDICATED.
23. HYDROGEN SULFIDE SENSOR w/ SPLASH GUARD, MOUNTING HEIGHT AS INDICATED.
24. METHANE/LEL SENSOR, MOUNTING HEIGHT AS INDICATED.
25. IN-CHANNEL ULTRASONIC LEVEL SENSOR FOR INFLUENT FLOW MEASUREMENT.
26. INFLUENT FLOW INDICATOR
27. INFLUENT COMPOSITE SAMPLER
28. EXTERIOR LUMINAIRES TO BE CONTROLLED BY COMBINATION OF MANUAL SWITCH AND PHOTOCELL. PHOTOCELL TO ALLOW ILLUMINATION ONLY DURING NIGHTTIME HOURS.
29. LOCATE LUMINAIRE NOTED CLEAR OF OVERHEAD DOOR TRAVEL PATH.
30. CONNECT HEAT DETECTORS IN PRELIMINARY TREATMENT AREA AND SMOKE DETECTOR IN ELECTRICAL AND CONTROL ROOM TO SCADA PANEL. 24VDC POWER TO DETECTORS SUPPLIED FROM SCADA PANEL. HEAT DETECTORS SPACING SHALL COMPLY WITH NFPA-72, NATIONAL FIRE ALARM CODE, 2010 EDITION.

HEADWORKS BUILDING LIGHTING AND POWER PLAN

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

REVISIONS		
NO.	DATE	DESCRIPTION
1	02/26/2010	ISSUED FOR ELECTRICAL SUBCONTRACTOR SELECTION
2	05/17/2011	ISSUED FOR PREPARATION OF CMO
3	06/20/2011	ISSUED FOR BUILDING PERMIT SUBMITTAL TO PRBDO (HEADWORKS BUILDING)
4	08/05/2011	ISSUED FOR CONSTRUCTION PER PRBDO BUILDING PERMIT #68510 (HEADWORKS BLDG)

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LIGHTING AND POWER PLAN AND SCHEDULE

HEADWORKS BUILDING

HAROLD D. THOMPSON REGIONAL WATER RECLAMATION FACILITY
LOWER FOUNTAIN METROPOLITAN SEWAGE DISPOSAL DISTRICT

DRAWN: GLY
DESIGNED: AFS
CHECKED: MR
DATE: 2010
PROJECT NO.: 20166.330
GMS FILE NO.: 2599

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