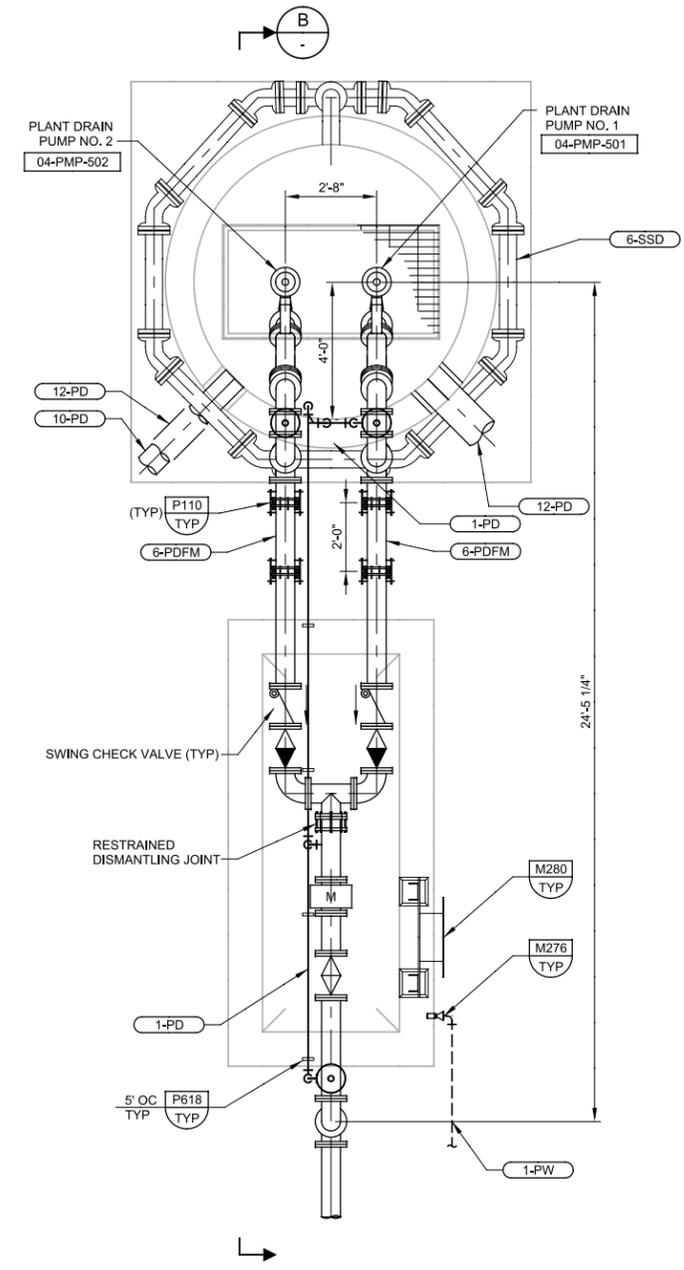


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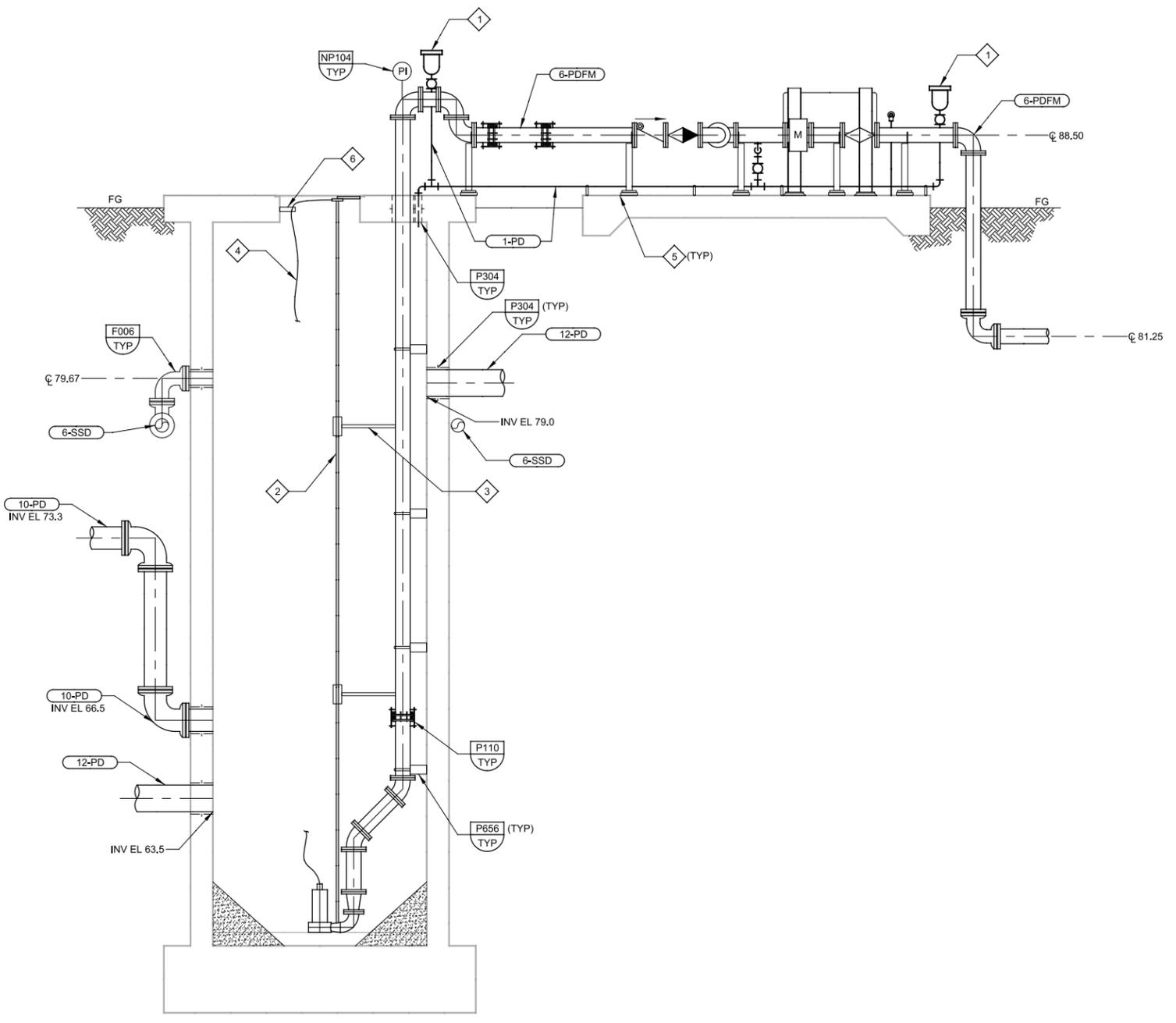
User: DDunk

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: ngriffith



**A PLAN**  
SCALE: 3/8" = 1'-0"  
FILE: 8930A1104M0101



**B SECTION**  
SCALE: 3/8" = 1'-0"  
FILE: 8930A1104M0301

- GENERAL NOTES**
- FOR GENERAL MECHANICAL NOTES, SEE SHEET 00G06.
  - FOR YARD PIPING CONTINUATION, SEE CIVIL DRAWINGS.
  - REFER TO ELECTRICAL DRAWINGS FOR INSTALLATION OF INSTRUMENTATION.

- KEY NOTES**
- 1-INCH SEWAGE COMBINATION AIR VALVE PER TYPICAL DETAIL P240, ROUTE SST VENT LINE ALONG DISCHARGE PIPE TO WET WELL.
  - GUIDE RAIL.
  - INTERMEDIATE RAIL SUPPORT AS REQUIRED PER 11312K.
  - SST LIFT CHAIN.
  - PIPE SUPPORT PER P624 OR P626.
  - CABLE/CHAIN HOLDER.

REV	DATE	BY	DESCRIPTION

DESIGNED  
ADW  
DRAWN  
DBJ  
CHECKED  
TPY  
DATE  
SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
LOS OSOS WATER RECYCLING FACILITY PROJECT  
MECHANICAL  
PLANT DRAIN PUMP STATION  
PLAN AND SECTION

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

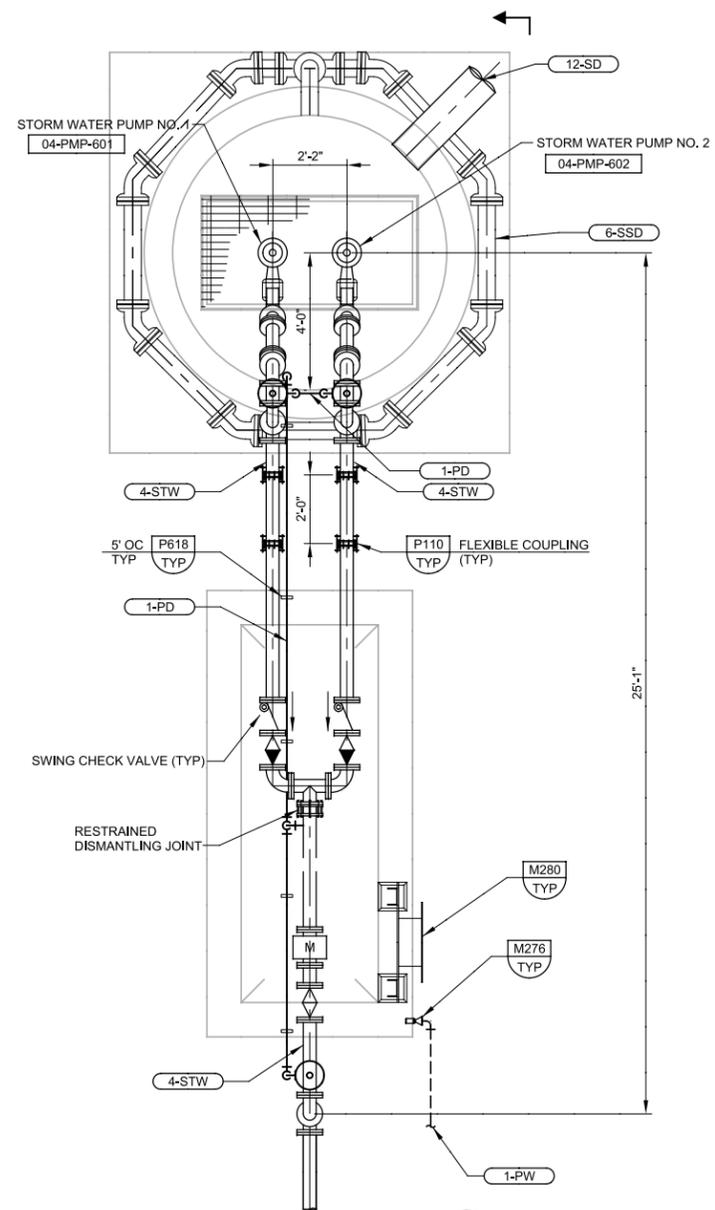
JOB NO.  
8930A.11  
DRAWING NO.  
**04M01**  
SHEET NO.  
OF 549

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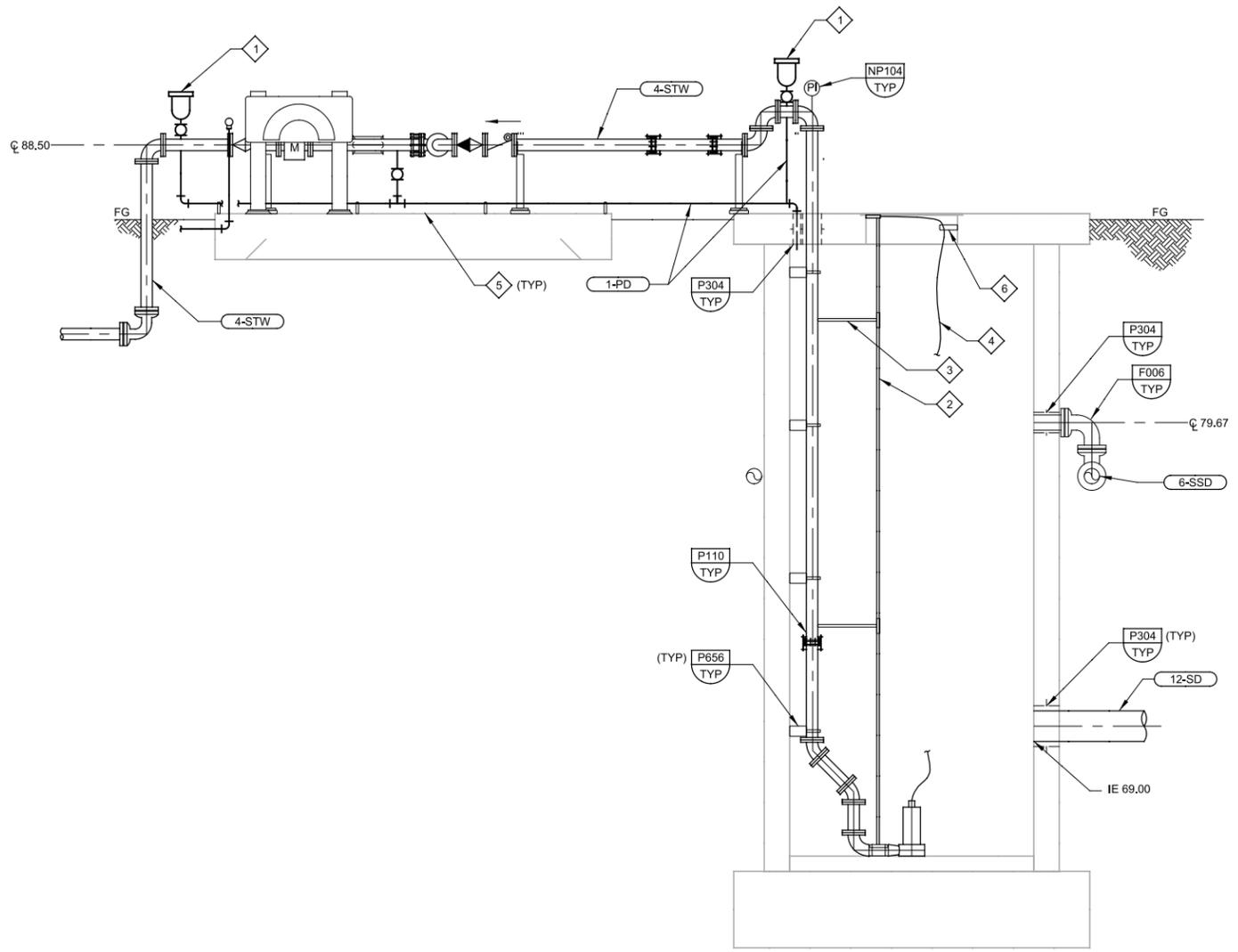
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LAST SAVED BY: ddonk



**A PLAN**  
 SCALE: 3/8" = 1'-0"  
 FILE: 8930A1104M0101



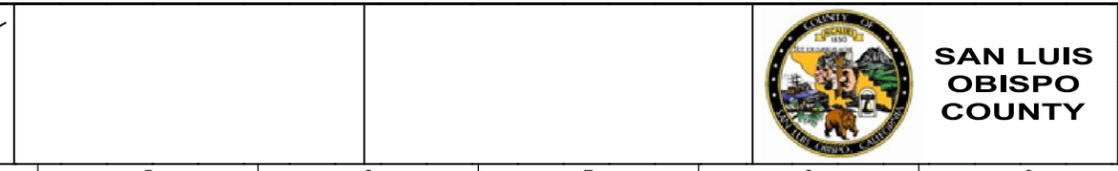
**B SECTION**  
 SCALE: 3/8" = 1'-0"  
 FILE: 8930A1104M0303

- GENERAL NOTES**
- FOR GENERAL MECHANICAL NOTES, SEE SHEET 00G06.
  - FOR YARD PIPING CONTINUATION, SEE CIVIL DRAWINGS.
  - REFER TO ELECTRICAL DRAWINGS FOR INSTALLATION OF INSTRUMENTATION.

- KEY NOTES**
- 1-INCH SEWAGE COMBINATION AIR VALVE PER TYPICAL DETAIL P240. ROUTE SST VENT LINE ALONG DISCHARGE PIPE TO WET WELL.
  - GUIDE RAIL.
  - INTERMEDIATE RAIL SUPPORT AS REQUIRED PER 11312K.
  - SST LIFT CHAIN.
  - PIPE SUPPORT PER P624 OR P626.
  - CABLE/CHAIN HOLDER.

REV	DATE	BY	DESCRIPTION

DESIGNED  
ADW  
 DRAWN  
DBJ  
 CHECKED  
TPY  
 DATE  
SEPT 2013



SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
 STORM WATER PUMP STATION  
 PLAN AND SECTION

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
8930A.11  
 DRAWING NO.  
**04M02**  
 SHEET NO.  
OF 549

Plot Date: 16-SEP-2013 7:17:54 PM  
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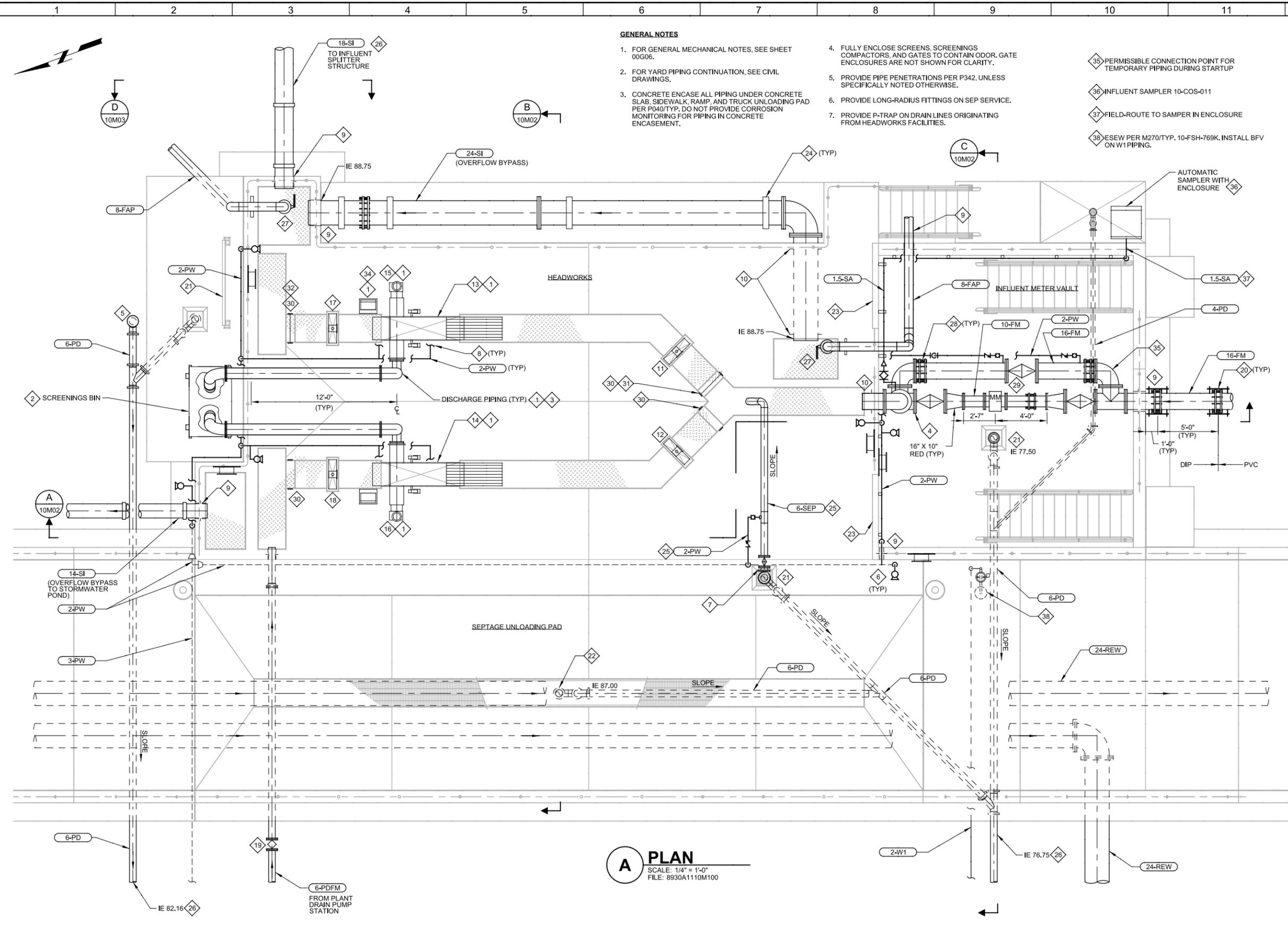
**GENERAL NOTES**

- FOR GENERAL MECHANICAL NOTES, SEE SHEET 00G06.
- FOR YARD PIPING CONTINUATION, SEE CIVIL DRAWINGS.
- CONCRETE ENCASE ALL PIPING UNDER CONCRETE SLAB, SIDEWALK, RAMP, AND TRUCK UNLOADING PAD PER P040/TYP. DO NOT PROVIDE CORROSION MONITORING FOR PIPING IN CONCRETE ENCASEMENT.
- FULLY ENCLOSE SCREENS, SCREENINGS COMPACTORS, AND GATES TO CONTAIN ODOR. GATE ENCLOSURES ARE NOT SHOWN FOR CLARITY.
- PROVIDE PIPE PENETRATIONS PER P342, UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE LONG-RADIUS FITTINGS ON SEP SERVICE.
- PROVIDE P-TRAP ON DRAIN LINES ORIGINATING FROM HEADWORKS FACILITIES.

**KEY NOTES**

- ITEMS SUPPLIED BY SINGLE EQUIPMENT SUPPLIER.
- TO BE PROVIDED BY OTHERS. APPROX. 5'-9"(L) X 3'-6"(W) X 5" (H).
- DIAMETER, LENGTH, HEIGHT, FITTINGS, AND TRANSITIONS AS REQUIRED TO DISCHARGE SCREENINGS INTO ONE BIN.
- 16" FLANGED SIDE OUTLET 90 BEND.
- CO, TYPE 1, PER P004/TYP
- INSTALL HOSE VALVE AND RACK PER M276/TYP & M280/TYP. MOUNT ON WALL OR GUARD RAIL WHEREVER FEASIBLE.
- 6" ALUMINUM QUICK DISCONNECT ON BF
- FIELD-ROUTE 1.5-PW FROM 2-PW HEADER TO EACH SCREEN AND EACH SCREENINGS COMPACTOR AND. SUPPORT PIPING AS REQUIRED.
- PIPE PENETRATION PER P304/TYP.
- PIPE PENETRATION PER P312/TYP.
- SCREEN INLET GATE NO. 1, 10-GAT-041
- SCREEN INLET GATE NO. 2, 10-GAT-051
- SCREEN NO. 1, 10-MBS-043
- SCREEN NO. 2, 10-MBS-053
- SCREENINGS COMPACTOR NO. 1, 10-CMP-044
- SCREENINGS COMPACTOR NO. 2, 10-CMP-054
- SCREEN OUTLET GATE NO. 1, 10-GAT-042
- SCREEN OUTLET GATE NO. 2, 10-GAT-052
- BURIED VALVE IN VALVE BOX PER P022/TYP
- FLEX COUPLING PER P110/TYP
- FLOOR SINK PER P420/TYP
- FLOOR DRAIN PER P410/TYP.
- RESERVE WALL SPACE FOR MOUNTING CONTROL PANELS. REFER TO ELECTRICAL DWGS FOR THE PANELS.
- PIPE SUPPORT PER P602/TYP.
- SUPPORT PIPE PER P624/TYP.
- CORROSION MONITORING FOR DIP PIPE PER D301/TYP. PROVIDE CORROSION MONITORING OF PIPE OUT OF CONCRETE ENCASEMENT.
- PROVIDE ISOLATION DAMPER ON VERTICAL RUN OF FOUL AIR PIPING.
- DISMANTLING JOINT
- SUPPORT PV PER P626/TYP ON BOTH SIDES OF VALVE
- STOP PLATE GROOVE
- STOP PLATE 10-MK-01
- STOP PLATE 10-MK-02
- STORAGE AREA FOR KEY NOTES 31 & 32
- COMMON ELECTRICAL TERMINATION BOX

**A PLAN**  
 SCALE: 1/4" = 1'-0"  
 FILE: 8930A11-10M01



REV	DATE	BY	DESCRIPTION

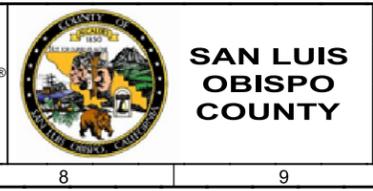
DESIGNED  
HGK

DRAWN  
DBJ

CHECKED  
TMB

DATE  
SEPT 2013

9/16/2013



SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**HEADWORKS PLAN**

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 8930A.11
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. <b>10M01</b>
	SHEET NO. OF 549

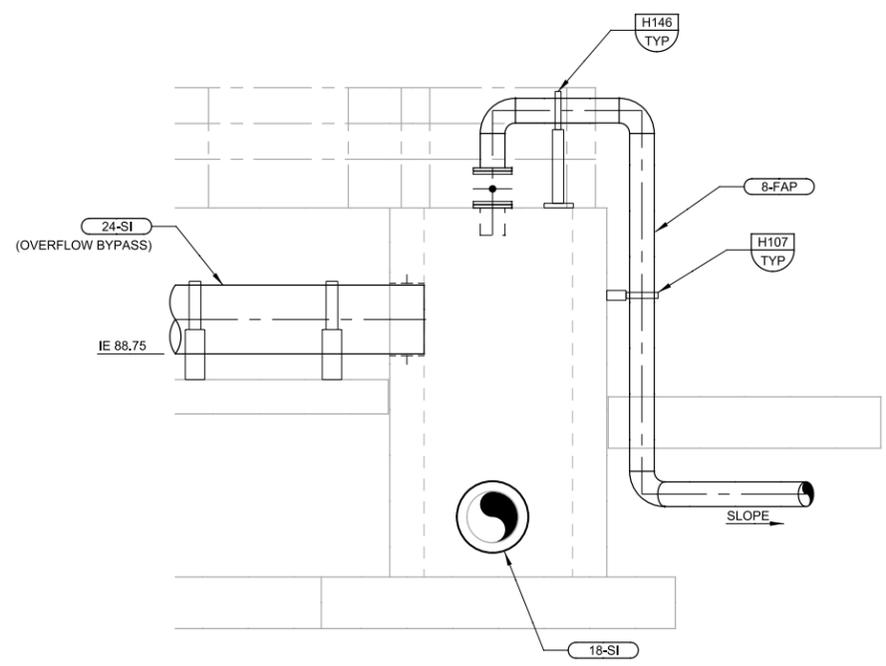


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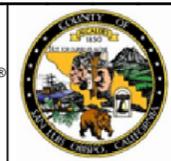
LAST SAVED BY: ddonk



**D SECTION**  
 10M01 SCALE: 3/8" = 1'-0"  
 FILE: 8930A11\_10\_M\_0304

REV	DATE	BY	DESCRIPTION

DESIGNED  
HGK  
 DRAWN  
DBJ  
 CHECKED  
DLM  
 DATE  
SEPT 2013



**SAN LUIS  
OBISPO  
COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**HEADWORKS  
SECTIONS**

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
8930A.11  
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**10M03**  
 SHEET NO.  
OF 549

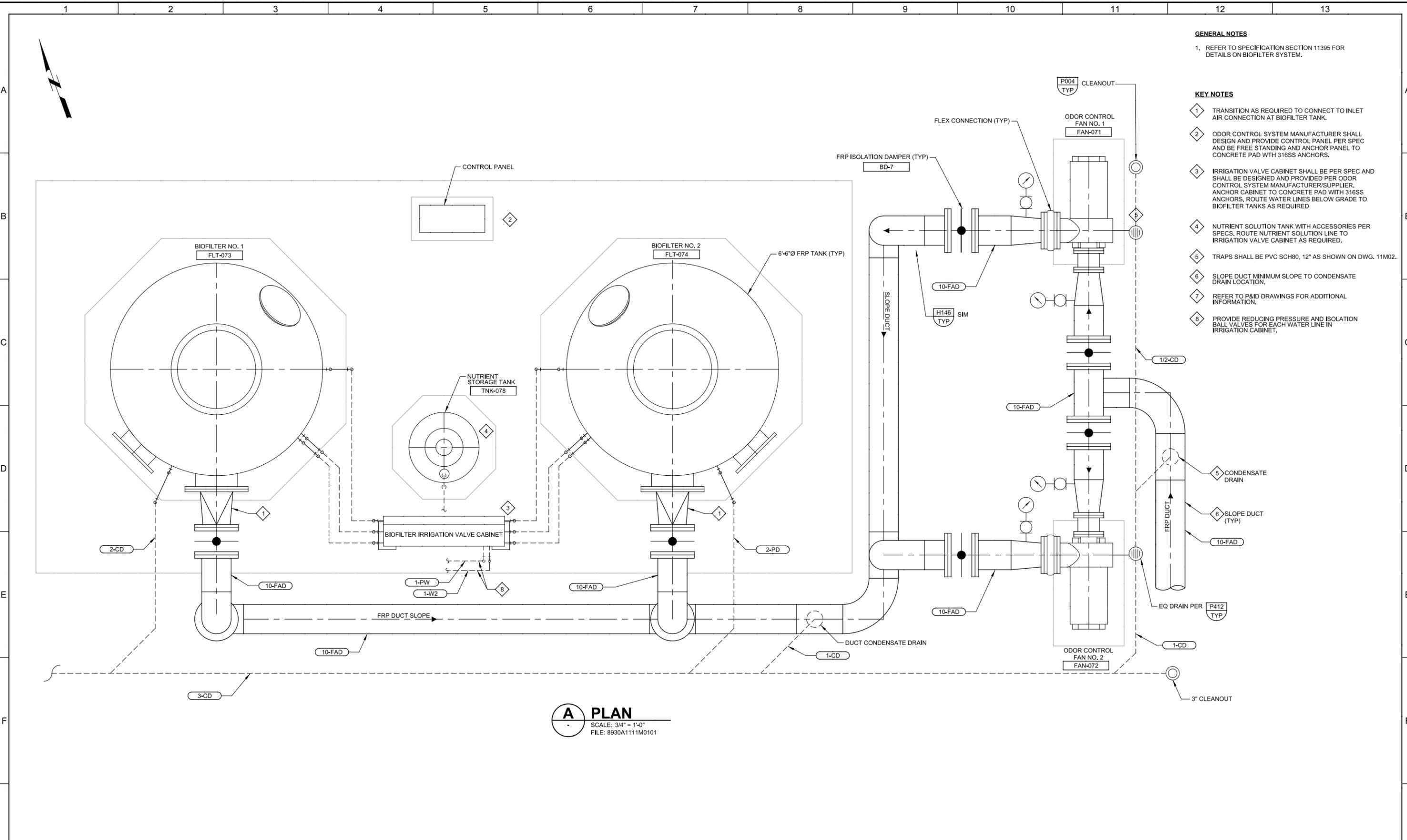
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User: DDunk

PlotScale: 2:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0805.pen

LAST SAVED BY: ddunk



**GENERAL NOTES**

- REFER TO SPECIFICATION SECTION 11395 FOR DETAILS ON BIOFILTER SYSTEM.

**KEY NOTES**

- TRANSITION AS REQUIRED TO CONNECT TO INLET AIR CONNECTION AT BIOFILTER TANK.
- ODOR CONTROL SYSTEM MANUFACTURER SHALL DESIGN AND PROVIDE CONTROL PANEL PER SPEC AND BE FREE STANDING AND ANCHOR PANEL TO CONCRETE PAD WITH 316SS ANCHORS.
- IRRIGATION VALVE CABINET SHALL BE PER SPEC AND SHALL BE DESIGNED AND PROVIDED PER ODOR CONTROL SYSTEM MANUFACTURER/SUPPLIER. ANCHOR CABINET TO CONCRETE PAD WITH 316SS ANCHORS. ROUTE WATER LINES BELOW GRADE TO BIOFILTER TANKS AS REQUIRED.
- NUTRIENT SOLUTION TANK WITH ACCESSORIES PER SPECS. ROUTE NUTRIENT SOLUTION LINE TO IRRIGATION VALVE CABINET AS REQUIRED.
- TRAPS SHALL BE PVC SCH80, 12" AS SHOWN ON DWG. 11M02.
- SLOPE DUCT MINIMUM SLOPE TO CONDENSATE DRAIN LOCATION.
- REFER TO P&ID DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE REDUCING PRESSURE AND ISOLATION BALL VALVES FOR EACH WATER LINE IN IRRIGATION CABINET.

**A PLAN**  
 SCALE: 3/4" = 1'-0"  
 FILE: 8930A1111M0101

REV	DATE	BY	DESCRIPTION

DESIGNED KAK	
DRAWN DBJ	
CHECKED TMB	
DATE SEPT 2013	



**SAN LUIS OBISPO COUNTY**

**SAN LUIS OBISPO COUNTY**  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**ODOR CONTROL FACILITY PLAN**

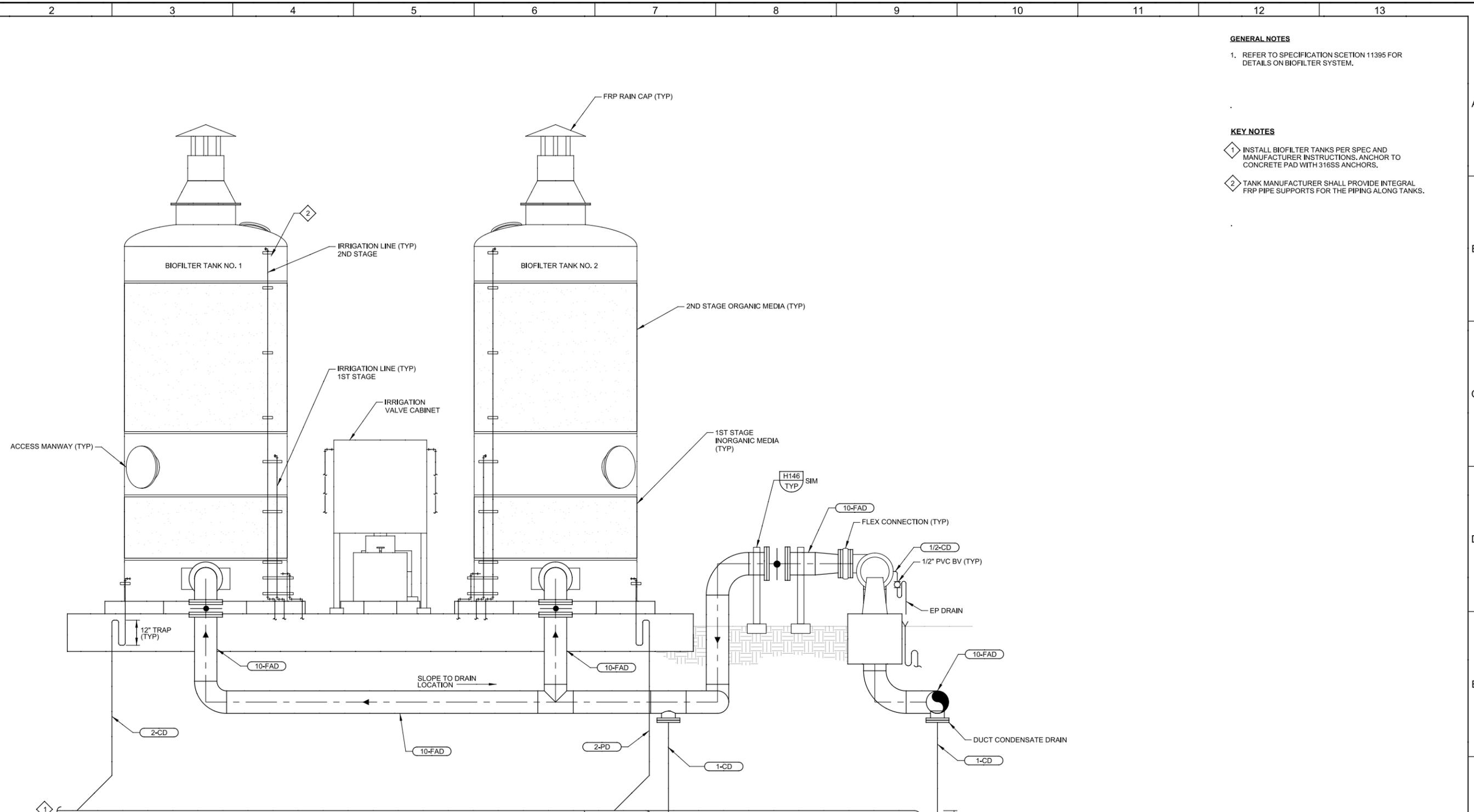
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Plot Date: 16-SEP-2013 7:18:57 PM

User: DDonk

PlotScale: 2:1

LAST SAVED BY: ddonk



**GENERAL NOTES**

1. REFER TO SPECIFICATION SECTION 11395 FOR DETAILS ON BIOFILTER SYSTEM.

**KEY NOTES**

1. INSTALL BIOFILTER TANKS PER SPEC AND MANUFACTURER INSTRUCTIONS. ANCHOR TO CONCRETE PAD WITH 316SS ANCHORS.
2. TANK MANUFACTURER SHALL PROVIDE INTEGRAL FRP PIPE SUPPORTS FOR THE PIPING ALONG TANKS.

**B SECTION**  
 11M01 SCALE: 1/2" = 1'-0"  
 FILE: 8930A1111M0301

REV	DATE	BY	DESCRIPTION

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KAK  
 DRAWN  
DBJ  
 CHECKED  
TMB  
 DATE  
SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**ODOR CONTROL FACILITY SECTION**

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

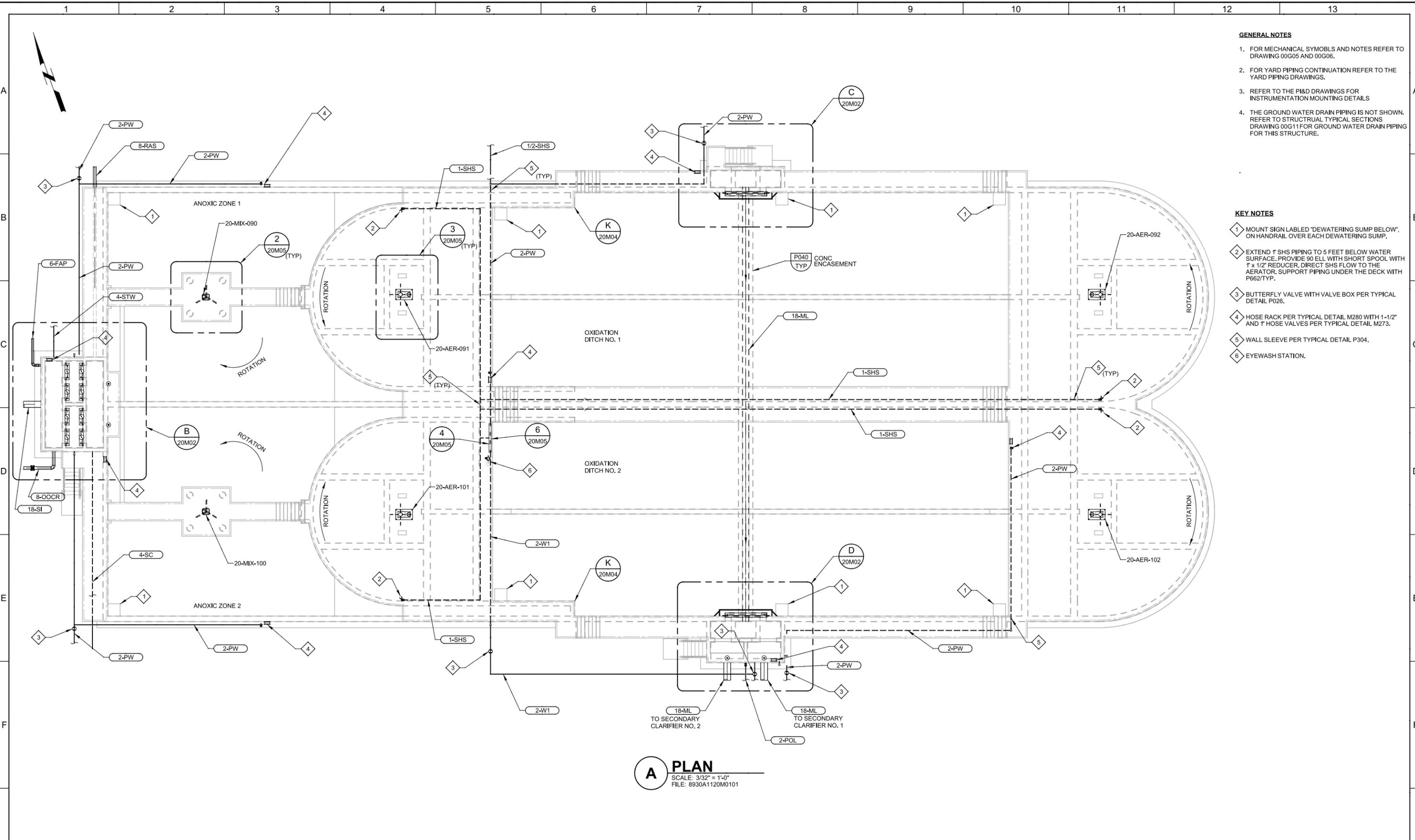
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8930A.11  
 DRAWING NO.  
**11M02**  
 SHEET NO.  
OF 549

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User: DDonk

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0805.pen PlotScale: 2:1

LAST SAVED BY: djacobs



- GENERAL NOTES**
- FOR MECHANICAL SYMBOLS AND NOTES REFER TO DRAWING 00G05 AND 00G06.
  - FOR YARD PIPING CONTINUATION REFER TO THE YARD PIPING DRAWINGS.
  - REFER TO THE P&ID DRAWINGS FOR INSTRUMENTATION MOUNTING DETAILS
  - THE GROUND WATER DRAIN PIPING IS NOT SHOWN. REFER TO STRUCTURAL TYPICAL SECTIONS DRAWING 00G11 FOR GROUND WATER DRAIN PIPING FOR THIS STRUCTURE.

- KEY NOTES**
- MOUNT SIGN LABELED "DEWATERING SUMP BELOW", ON HANDRAIL OVER EACH DEWATERING SUMP.
  - EXTEND 1" SHS PIPING TO 5 FEET BELOW WATER SURFACE. PROVIDE 90 ELL WITH SHORT SPOOL WITH 1" x 1/2" REDUCER. DIRECT SHS FLOW TO THE AERATOR. SUPPORT PIPING UNDER THE DECK WITH P662/TYP.
  - BUTTERFLY VALVE WITH VALVE BOX PER TYPICAL DETAIL P026.
  - HOSE RACK PER TYPICAL DETAIL M280 WITH 1-1/2" AND 1" HOSE VALVES PER TYPICAL DETAIL M273.
  - WALL SLEEVE PER TYPICAL DETAIL P304.
  - EYEWASH STATION.

**A PLAN**  
 SCALE: 3/32" = 1'-0"  
 FILE: 8930A1120M0101

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED  
JBG  
 DRAWN  
NRG  
 CHECKED  
SGS  
 DATE  
SEPT 2013

*James B. Gish*  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 28212  
 9/16/2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**OXIDATION DITCH PLAN**

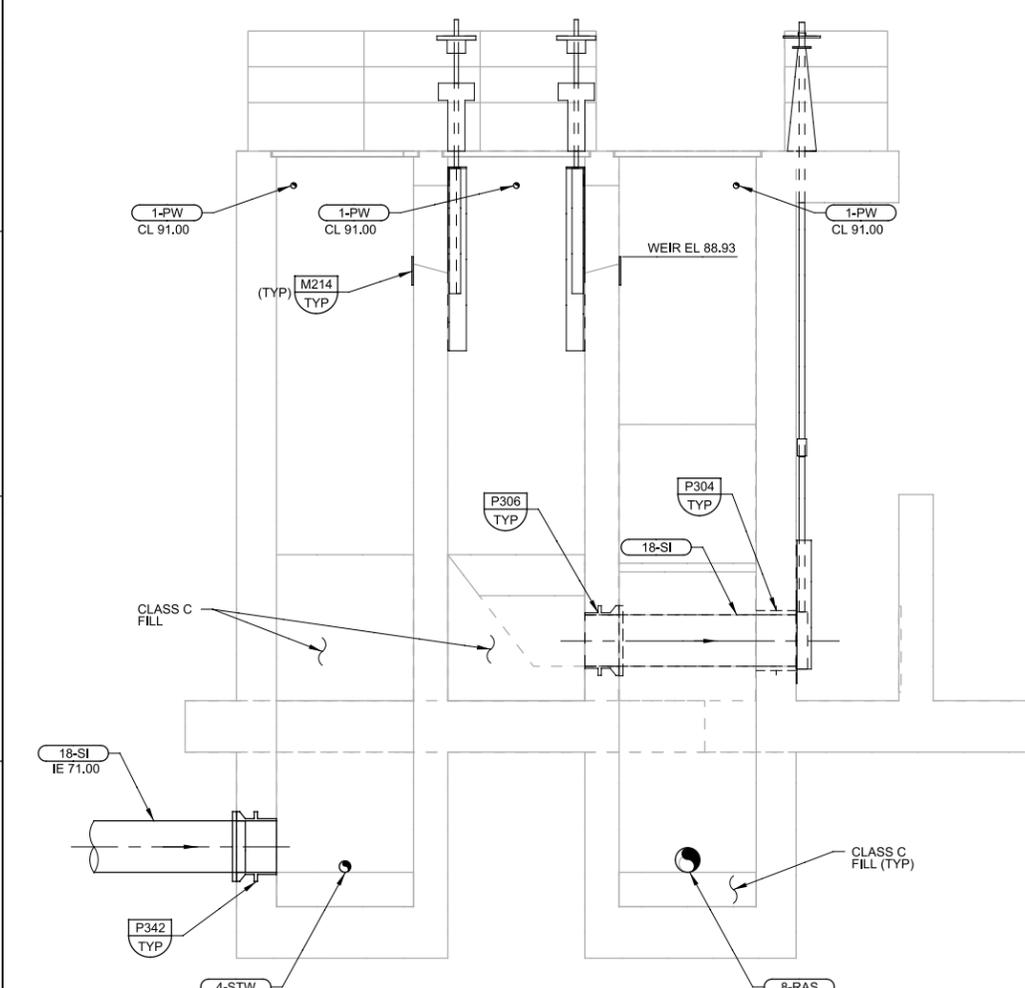
VERIFY SCALES  
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
8930A.11  
 DRAWING NO.  
**20M01**  
 SHEET NO.  
OF 549

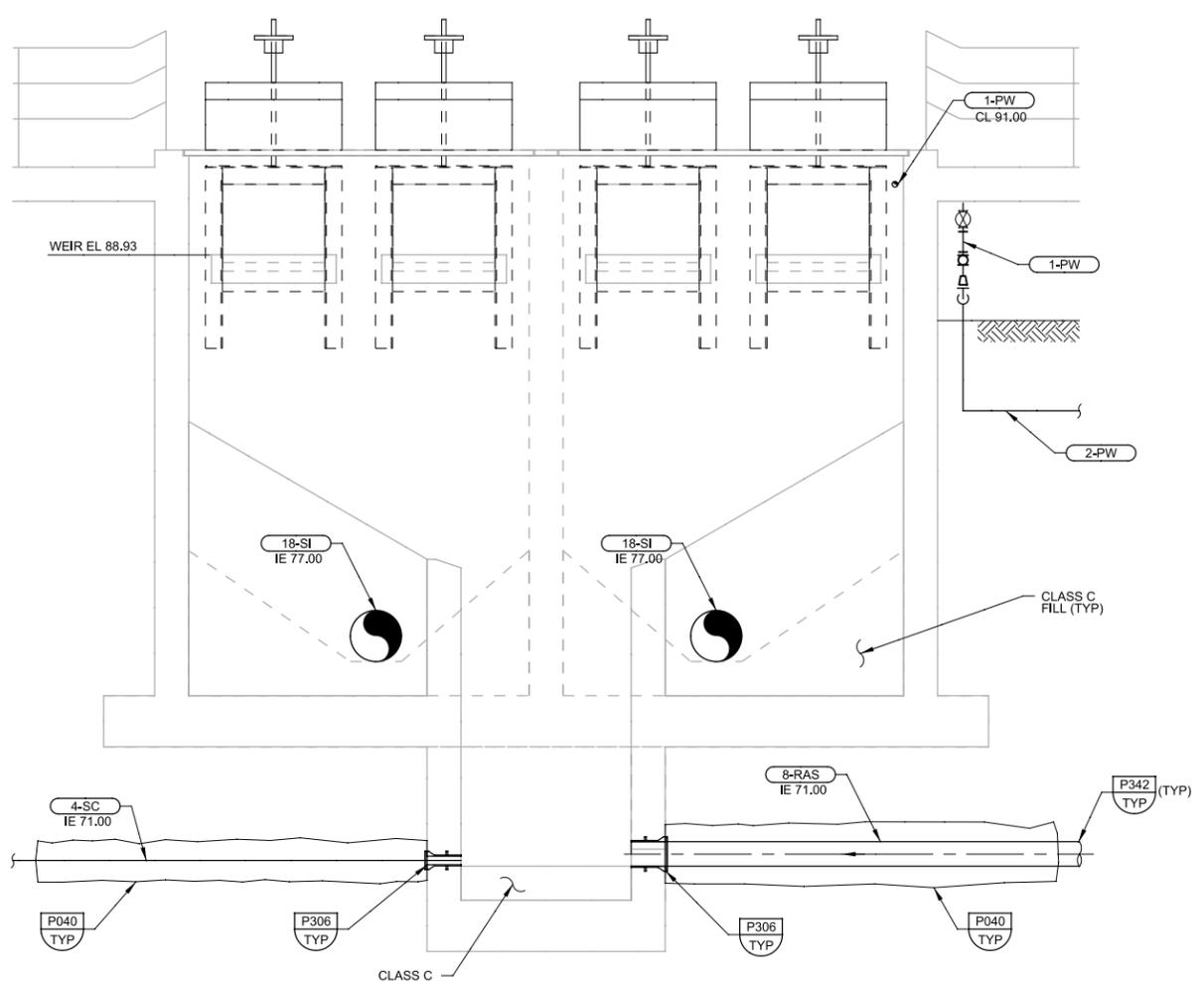


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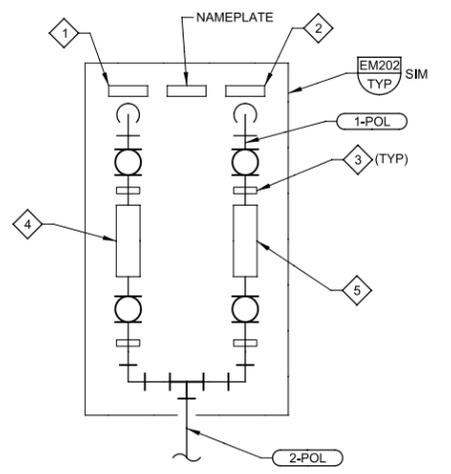
1 2 3 4 5 6 7 8 9 10 11 12 13



**E SECTION**  
 20M02 SCALE: 3/8" = 1'-0"  
 FILE: 8930A1120M0302



**F SECTION**  
 20M02 SCALE: 3/8" = 1'-0"  
 FILE: 8930A1120M0303



**5 DETAIL**  
 20M02 SCALE: NTS  
 FILE: 8930A1120M0401

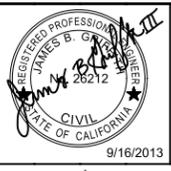
**GENERAL NOTES**  
 1. REFER TO DRAWING 20M01 FOR ADDITIONAL GENERAL NOTES

**KEY NOTES**

- 1 PROVIDE SIGN: SECONDARY CLARIFIER NO. 1
- 2 PROVIDE SIGN: SECONDARY CLARIFIER NO. 2
- 3 SUPPORT PIPE PER TYPICAL DETAIL 662.
- 4 20F1453B
- 5 20F1453C

REV	DATE	BY	DESCRIPTION

DESIGNED  
JBG  
 DRAWN  
NRG  
 CHECKED  
SGS  
 DATE  
SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
 OXIDATION DITCH SECTIONS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
8930A.11  
 DRAWING NO.  
**20M03**  
 SHEET NO.  
OF 549

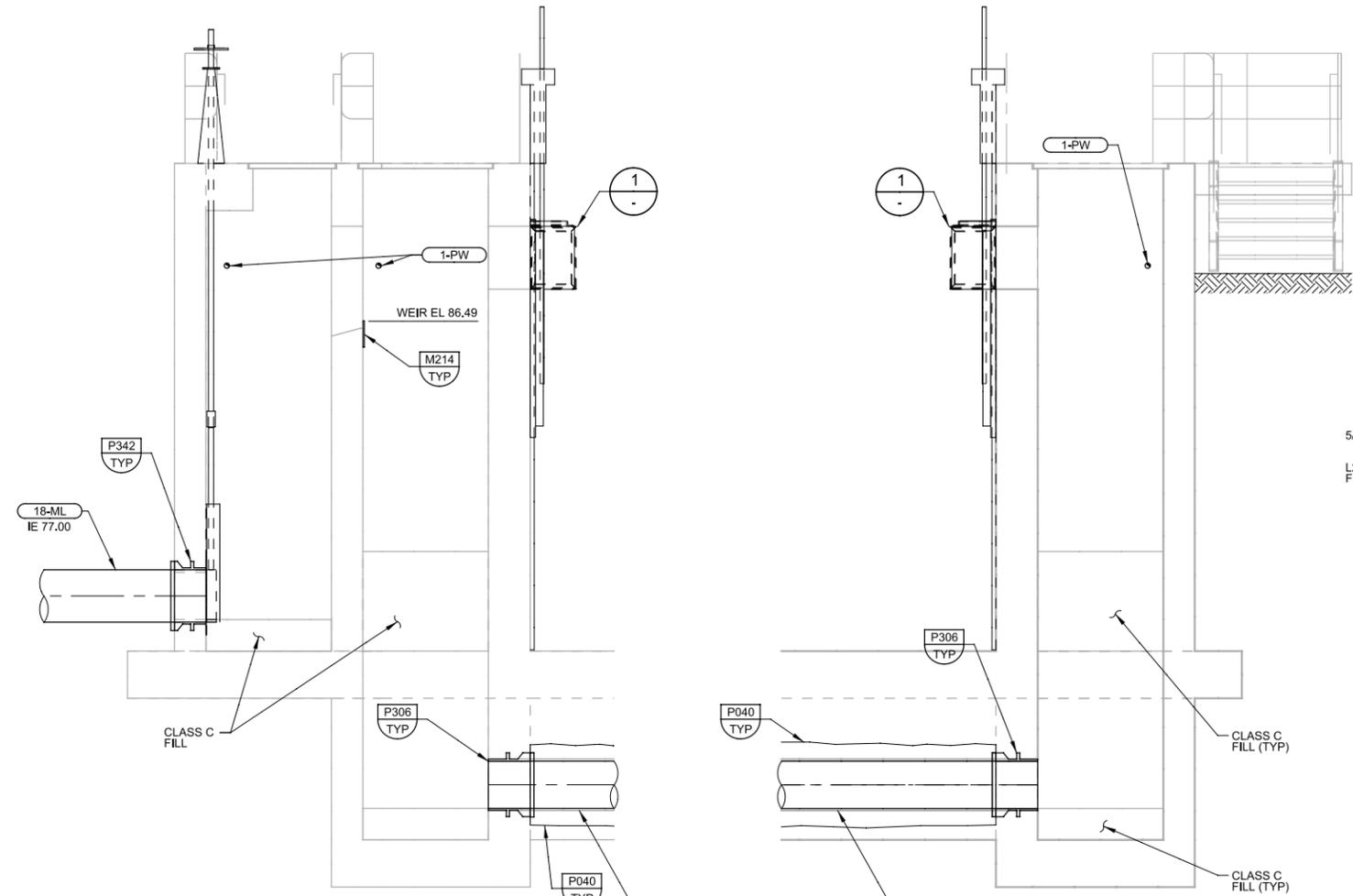
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Plot Date: 16-SEP-2013 7:19:54 PM

User: DDunk

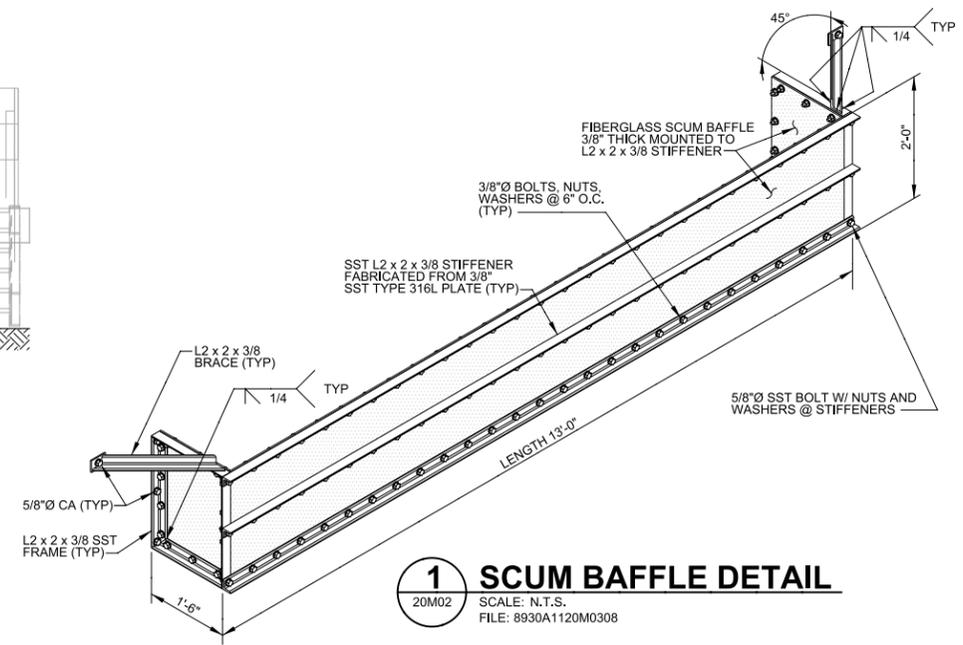
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LAST SAVED BY: imorris

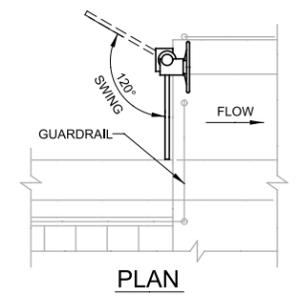


**G SECTION**  
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 FILE: 8930A1120M0305

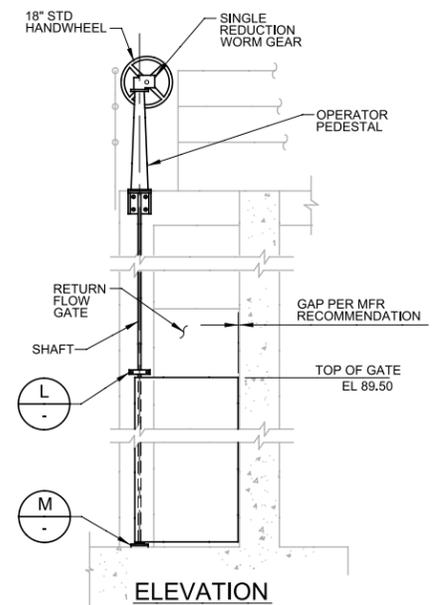
**H SECTION**  
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 FILE: 8930A1120M0304



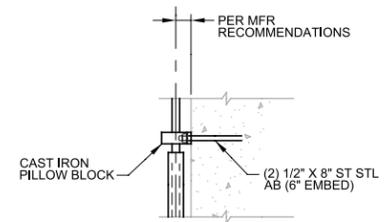
**1 SCUM BAFFLE DETAIL**  
 20M02 SCALE: N.T.S.  
 FILE: 8930A1120M0308



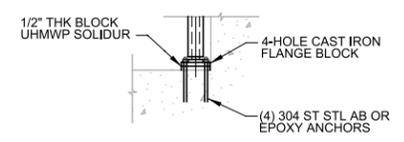
**PLAN**



**K RETURN FLOW GATE DETAIL**  
 20M01 SCALE: NTS  
 FILE: 8930A11\_20-M-0402



**L DETAIL**  
 SCALE: NTS  
 FILE: 8930A11\_20-M-0402



**M DETAIL**  
 SCALE: NTS  
 FILE: 8930A11\_20-M-0402

**GENERAL NOTES**  
 1. REFER TO DRAWING 20M01 FOR ADDITIONAL GENERAL NOTES

REV	DATE	BY	DESCRIPTION

DESIGNED	JBG
DRAWN	NRG
CHECKED	SGS
DATE	SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
 OXIDATION DITCH SECTIONS / DETAILS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 8930A.11  
 DRAWING NO. 20M04  
 SHEET NO. OF 549

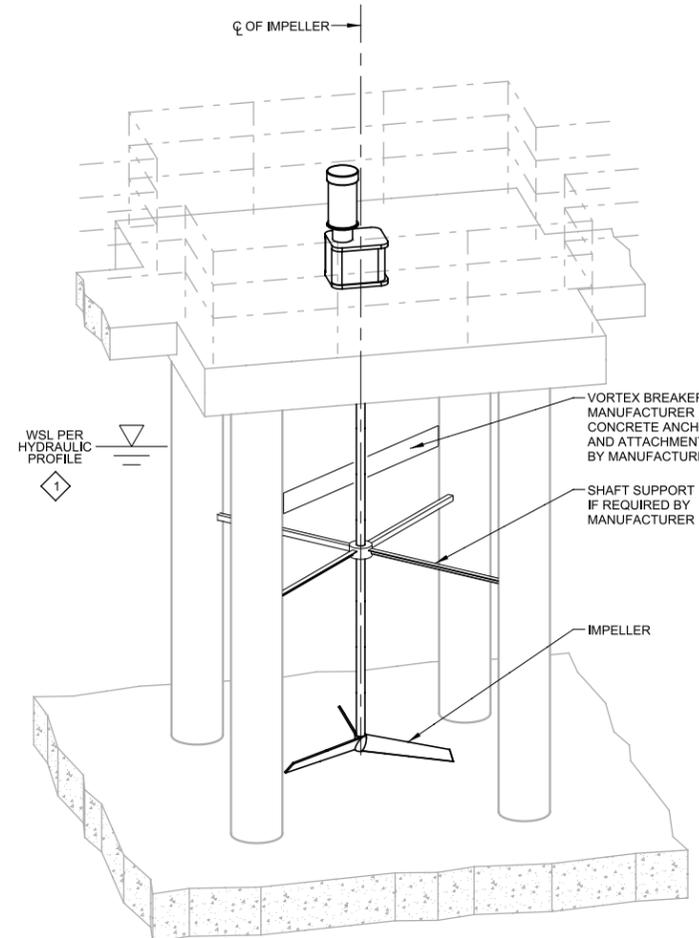
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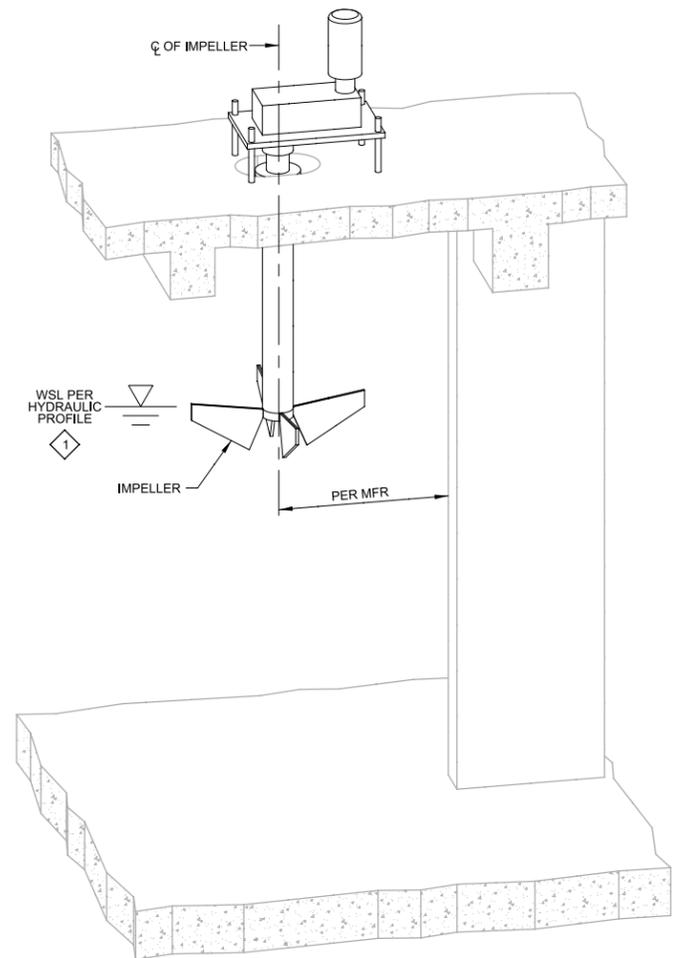
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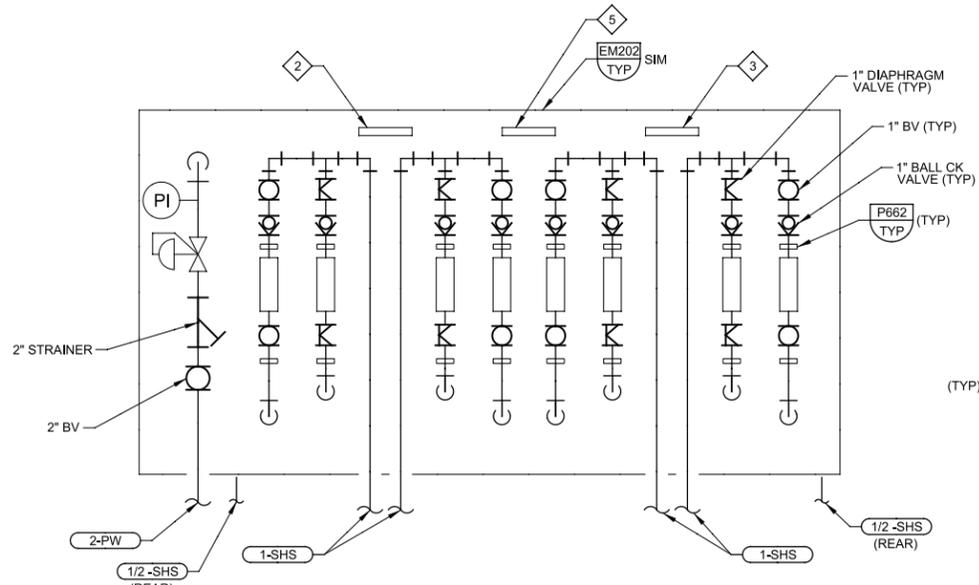
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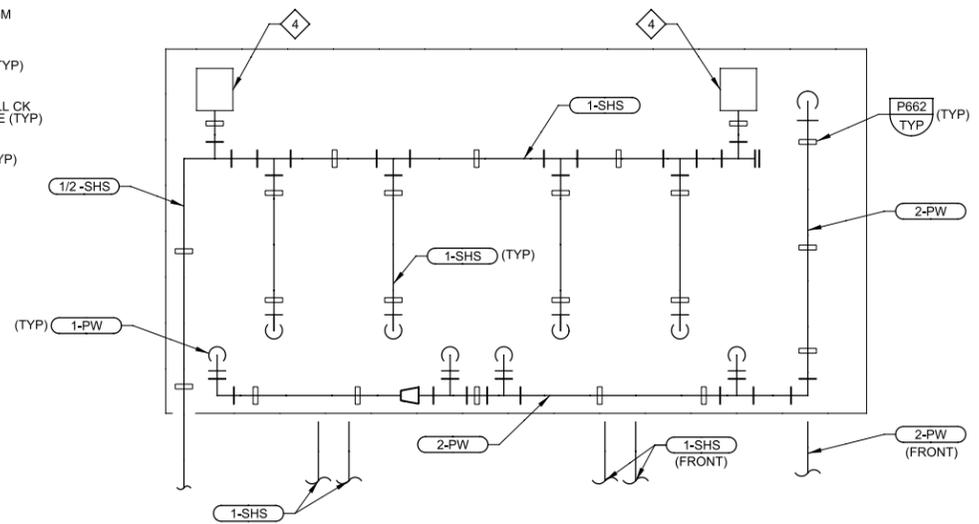
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20M01 SCALE: N.T.S.  
FILE: 8930A1120M0306



**3 DETAIL**  
20M01 SCALE: N.T.S.  
FILE: 8930A1120M0307



**4 DETAIL-FRONT VIEW**  
20M01 SCALE: N.T.S.  
FILE: 8930A1120M0401



**6 DETAIL-REAR VIEW**  
20M01 SCALE: N.T.S.  
FILE: 8930A1120M0401

**GENERAL NOTES**

1. REFER TO DRAWING 20M01 FOR ADDITIONAL GENERAL NOTES.

**KEY NOTES**

- 1 DURING STORAGE MODE THE WATER SURFACE WILL RISE AN ADDITIONAL 7 INCHES OVER THE WSL SHOWN IN THE HYDRAULIC PROFILE.
- 2 PROVIDE SIGN: CHLORINE FEED: OXIDATION DITCH 1.
- 3 PROVIDE SIGN: CHLORINE FEED: OXIDATION DITCH 2.
- 4 SODIUM HYPOCHLORITE DEGASSING VALVE. ROUTE 1/8" SCH 80 CPVC PIPE FROM OUTLET VENT TO 2' CLEAR OF TOP SLAB.
- 5 OXIDATION DITCH CHLORINE FEED PANEL.

REV	DATE	BY	DESCRIPTION

DESIGNED	JBG
DRAWN	NRG
CHECKED	SGS
DATE	SEPT 2013



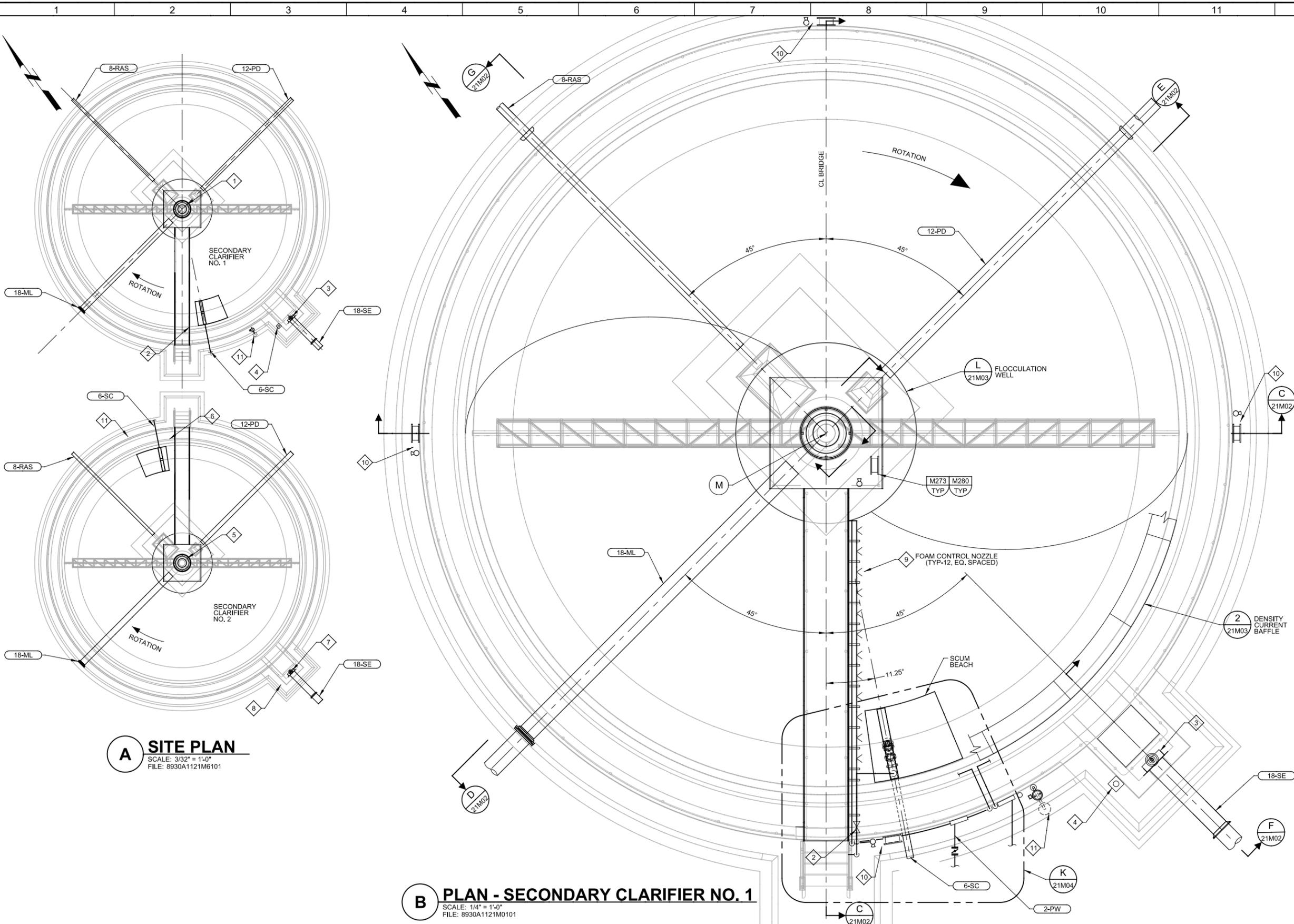
**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
LOS OSOS WATER RECYCLING FACILITY PROJECT  
MECHANICAL  
OXIDATION DITCH  
SECTIONS / DETAILS

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
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JOB NO. 8930A.11  
DRAWING NO. 20M05  
SHEET NO. OF 549

Pldt Date: 16-SEP-2013 7:20:27 PM  
 User: DDonk  
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PldtScale: 2:1  
 LAST SAVED BY: ddonk



**A SITE PLAN**  
 SCALE: 3/32" = 1'-0"  
 FILE: 8930A1121M6101

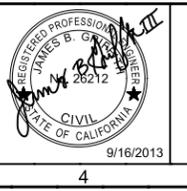
**B PLAN - SECONDARY CLARIFIER NO. 1**  
 SCALE: 1/4" = 1'-0"  
 FILE: 8930A1121M0101

- GENERAL NOTES**
- FOR MECHANICAL SYMBOLS AND NOTES REFER TO DRAWING 00G05 AND 00G06.
  - FOR YARD PIPING CONTINUATION REFER TO THE YARD PIPING DRAWINGS.
  - REFER TO THE P&ID DRAWINGS FOR INSTRUMENTATION MOUNTING DETAILS.
  - THE GROUND WATER DRAIN PIPING IS NOT SHOWN. REFER TO STRUCTURAL TYPICAL SECTIONS DRAWING 00G11 FOR GROUND WATER DRAIN PIPING FOR THIS STRUCTURE.
  - CONCRETE ENCASE ALL PIPING UNDER CONCRETE SLAB PER TYPICAL DETAIL P040 TO A DISTANCE OUTSIDE OF THE STRUCTURE TO BE DETERMINED BY A 45° ANGLE FROM THE OUTSIDE OF THE FOOTING TO THE PIPE. PROVIDE PIPE CONNECTION PER TYPICAL DETAIL P342 FOR DIP AND AS SHOWN ON THE YARD PIPING DRAWINGS.
  - SECONDARY CLARIFIER NO. 2 IS SIMILAR TO SECONDARY CLARIFIER NO. 1. REFER TO PLAN A SITE PLAN FOR ORDNATION.

- KEY NOTES**
- SECONDARY CLARIFIER NO. 1 DRIVE: 21-CLR-111.
  - SECONDARY CLARIFIER NO. 1 SCUM BEACH SPRAY WATER SOLENOID VALVE: 21-SOL-111.
  - SECONDARY CLARIFIER NO. 1 EFFLUENT GATE: 21-GAT-111.
  - BASKET HOIST 21-HOI-111
  - SECONDARY CLARIFIER NO. 2 DRIVE: 21-CLR-112.
  - SECONDARY CLARIFIER NO. 2 SCUM BEACH SPRAY WATER SOLENOID VALVE: 21-SOL-112.
  - SECONDARY CLARIFIER NO. 2 EFFLUENT GATE: 21-GAT-112
  - BASKET HOIST 21-HOI-112
  - SUPPORT PIPE FROM BRIDGE AT 5'-0" ON CENTER. PIPE SUPPORT SHALL BE PROVIDED BY THE CLARIFIER MANUFACTURE. ALL SUPPORTS AND FASTENERS SHALL BE 316 SST. FIELD ADJUST SPRAY NOZZLES TO CONTAIN SCUM BETWEEN THE SCUM SKIMMER AND SPRAY BAR.
  - PROVIDE HOSE VALVE AND HOSE RACK PER TYPICAL DETAILS M273 AND M280. RUN 2" PW FROM 4" PW. PROVIDE 2" BURIED ISOLATION BUTTERFLY VALVE PER TYPICAL DETAIL P026 AT EACH HOSE CONNECTION.
  - EYE WASH SHOWER PER TYPICAL DETAIL M270.

REV	DATE	BY	DESCRIPTION

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 DRAWN  
 DBJ  
 CHECKED  
 SGS  
 DATE  
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**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**SECONDARY CLARIFIER NO. 1**  
**PLAN**

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JOB NO.  
 8930A.11  
 DRAWING NO.  
**21M01**  
 SHEET NO.  
 OF 549

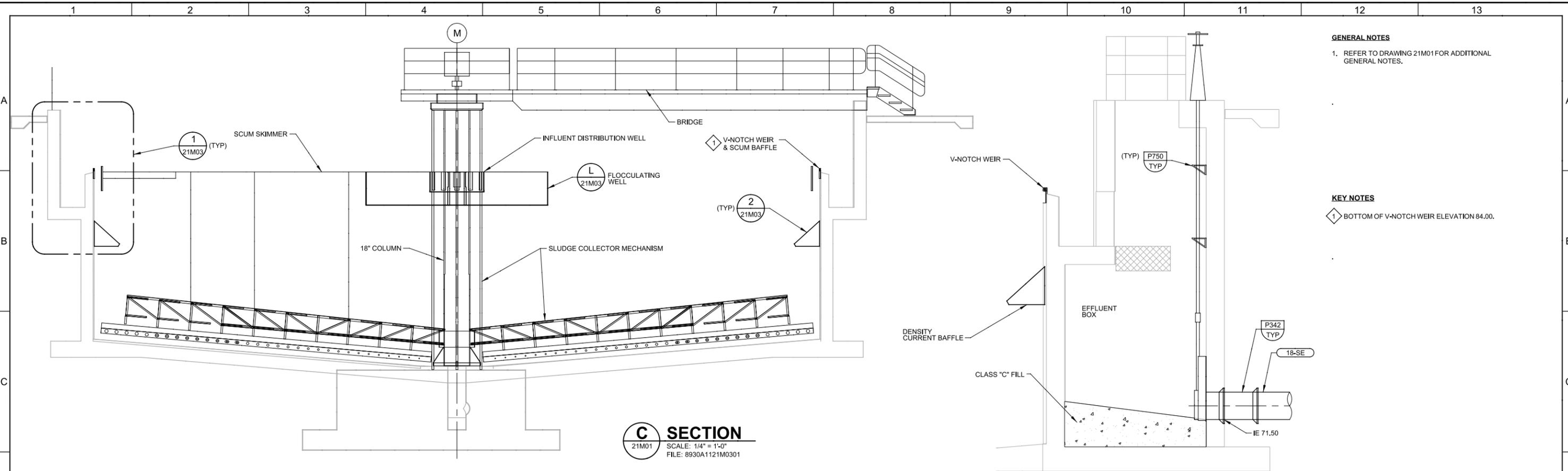
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User: DDonk

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LAST SAVED BY: ddonk

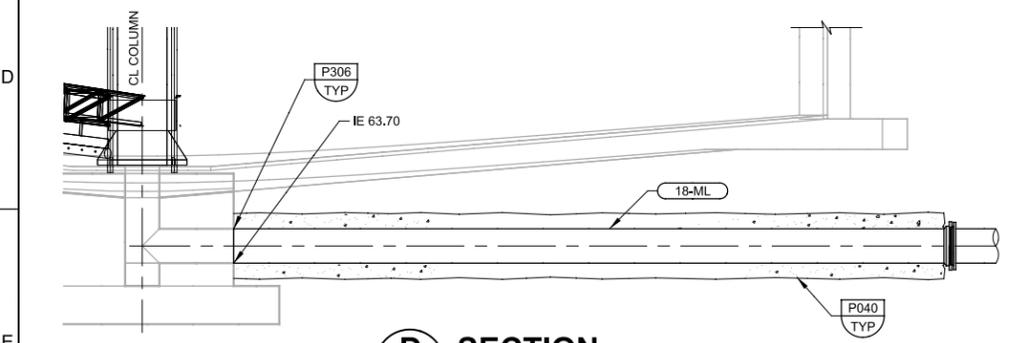


**GENERAL NOTES**  
 1. REFER TO DRAWING 21M01 FOR ADDITIONAL GENERAL NOTES.

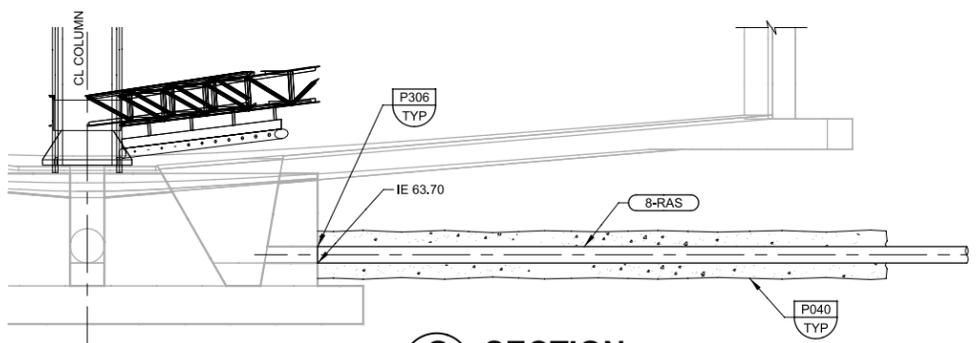
**KEY NOTES**  
 1. BOTTOM OF V-NOTCH WEIR ELEVATION 84.00.

**C SECTION**  
 21M01  
 SCALE: 1/4" = 1'-0"  
 FILE: 8930A1121M0301

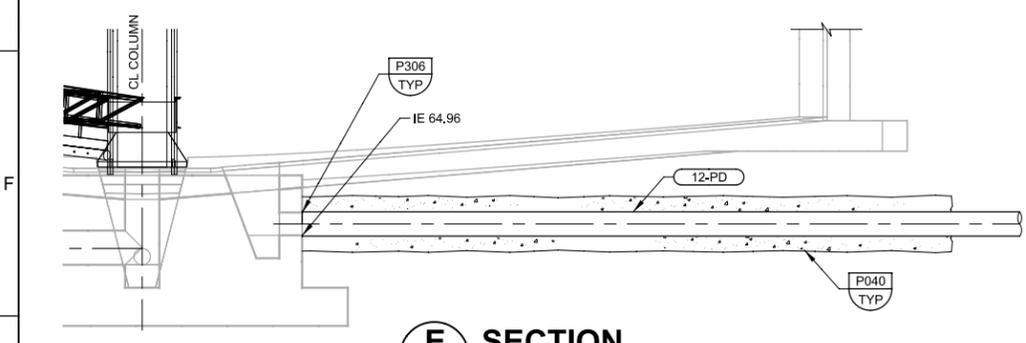
**F SECTION**  
 21M01  
 SCALE: 3/8" = 1'-0"  
 FILE: 8930A1121M0302



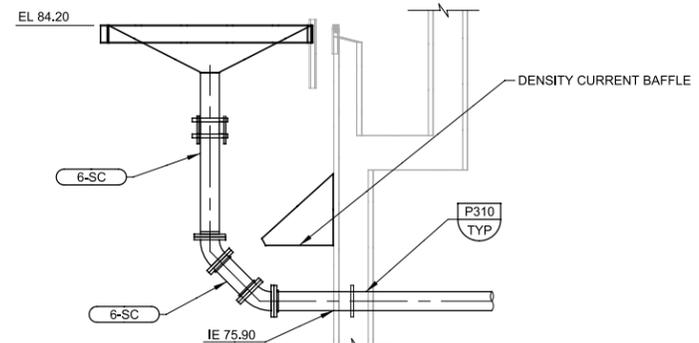
**D SECTION**  
 21M01  
 SCALE: 1/4" = 1'-0"  
 FILE: 8930A1121M0315



**G SECTION**  
 21M01  
 SCALE: 1/4" = 1'-0"  
 FILE: 8930A1121M0317



**E SECTION**  
 21M01  
 SCALE: 1/4" = 1'-0"  
 FILE: 8930A1121M0316



**H SECTION**  
 21M04  
 SCALE: 3/8" = 1'-0"  
 FILE: 8930A1121M0318

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DJJ  
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SGS  
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SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**SECONDARY CLARIFIER NO. 1**  
 SECTIONS AND DETAIL

VERIFY SCALES  
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JOB NO.  
8930A.11  
 DRAWING NO.  
**21M02**  
 SHEET NO.  
OF 549

Plot Date: 16-SEP-2013 7:21:16 PM

User: DDonk

PlotScale: 2:1

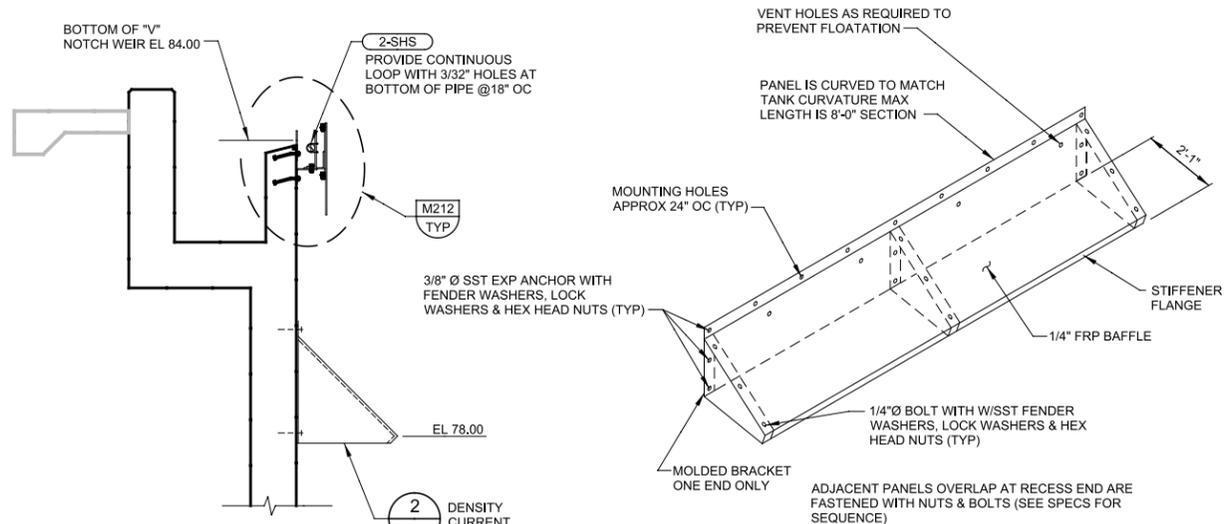
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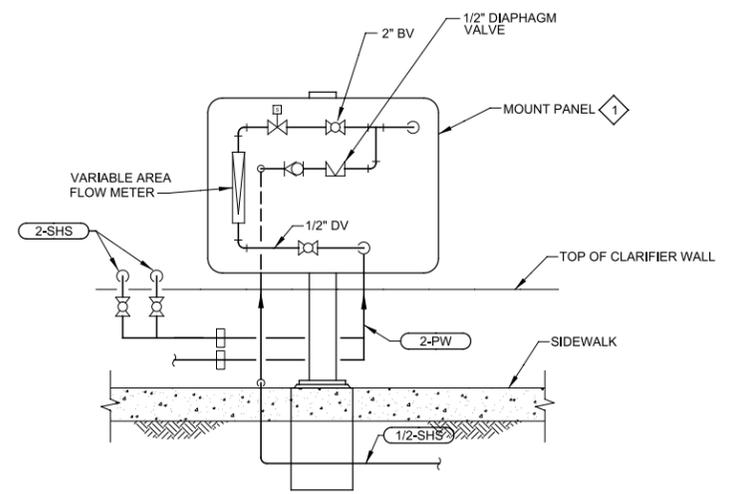
**GENERAL NOTES**  
1. REFER TO DRAWING 21M01 FOR ADDITIONAL GENERAL NOTES.

**KEY NOTES**  
1 MOUNT ON PANEL SIMILAR TO TYPICAL DETAIL EM202. SUPPORT PIPE PER TYPICAL DETAIL P662.  
2 SUPPORT PIPE ON WALL OF SECONDARY CLARIFIER PER TYPICAL DETAIL P662.

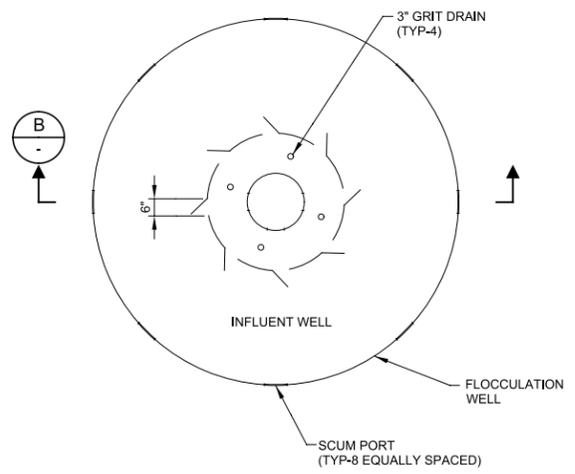


**1 DETAIL**  
21M02 SCALE: NTS  
FILE: 21-M-0401

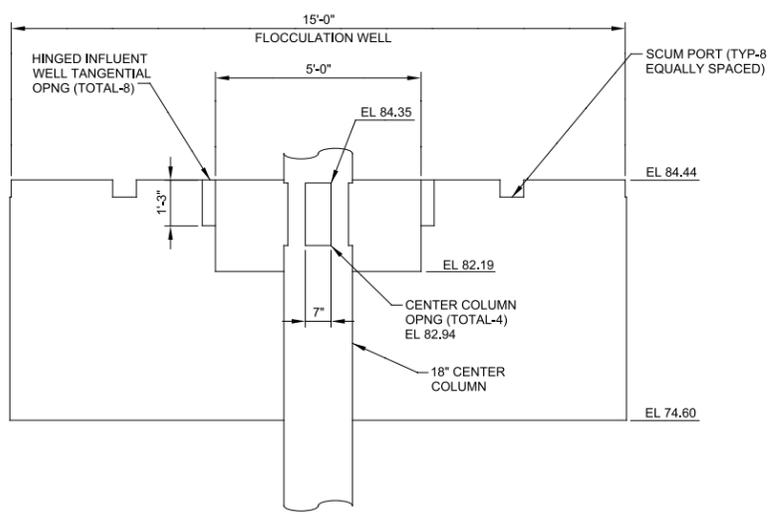
**2 DETAIL-DENSITY CURRENT BAFFLE**  
21M02 SCALE: NTS  
FILE: 21-M-0401



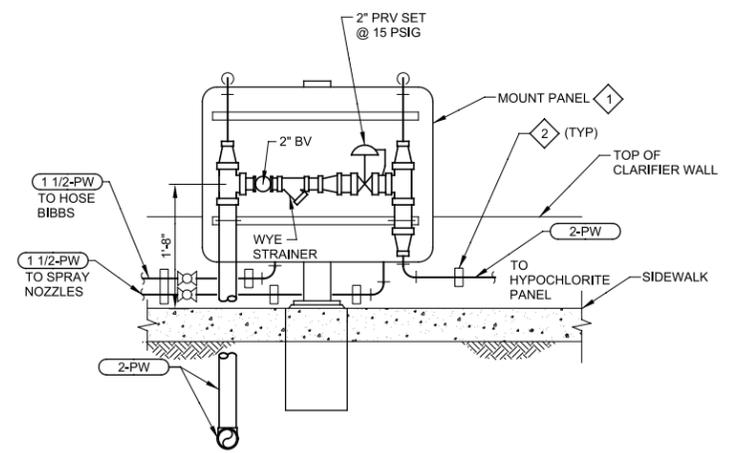
**M SECTION**  
21M04 SCALE: NTS  
FILE: 21-M-0401



**L PLAN-FLOCCULATION WELL DETAIL**  
21M01 SCALE: NTS  
FILE: 21-M-0401



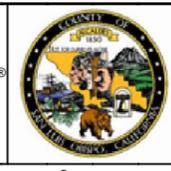
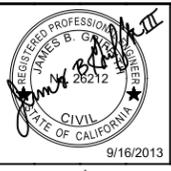
**B SECTION**  
SCALE: NTS  
FILE: 21-M-0401



**N SECTION**  
21M04 SCALE: NTS  
FILE: 21-M-0401

REV	DATE	BY	DESCRIPTION
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**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
LOS OSOS WATER RECYCLING FACILITY PROJECT  
MECHANICAL  
SECONDARY CLARIFIER NO. 1 & 2  
PLAN, SECTIONS AND DETAILS

VERIFY SCALES  
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0 1"  
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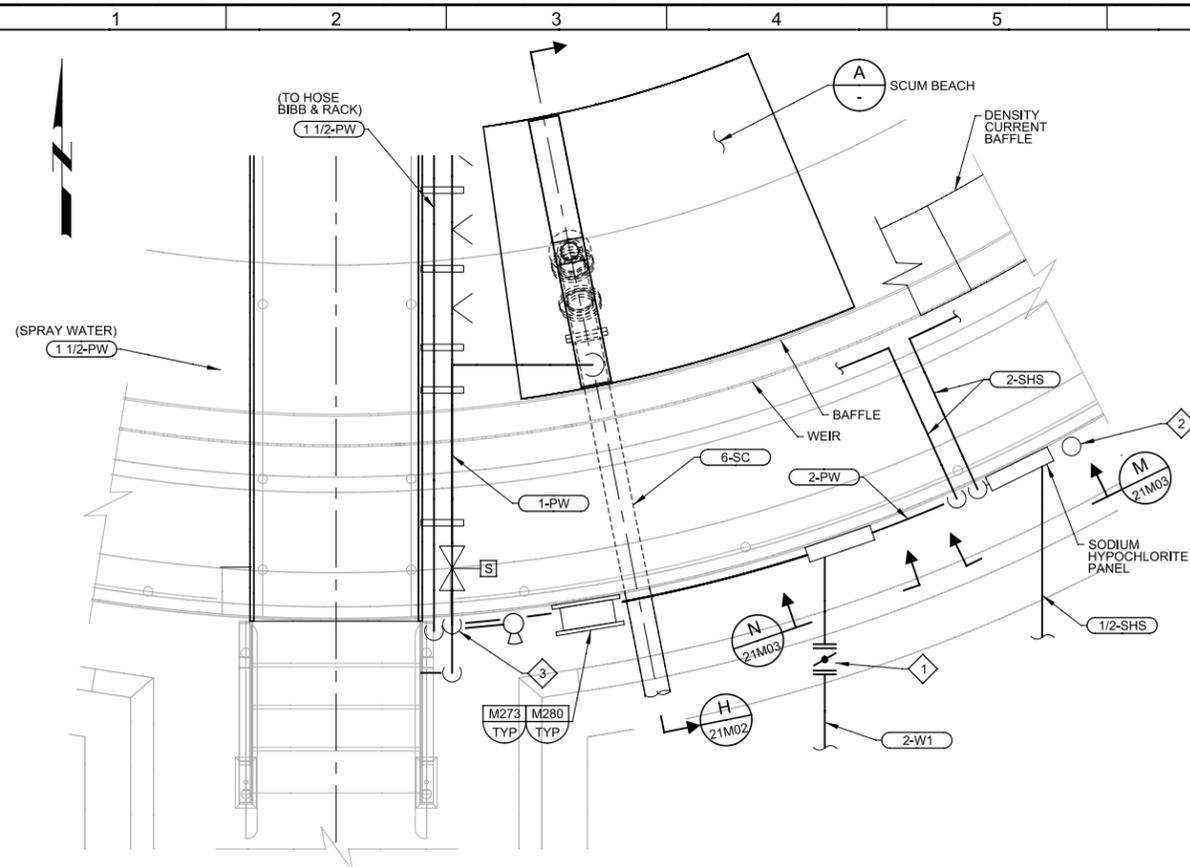
JOB NO.  
8930A.11  
DRAWING NO.  
**21M03**  
SHEET NO.  
OF 549

Plot Date: 16-SEP-2013 7:21:27 PM

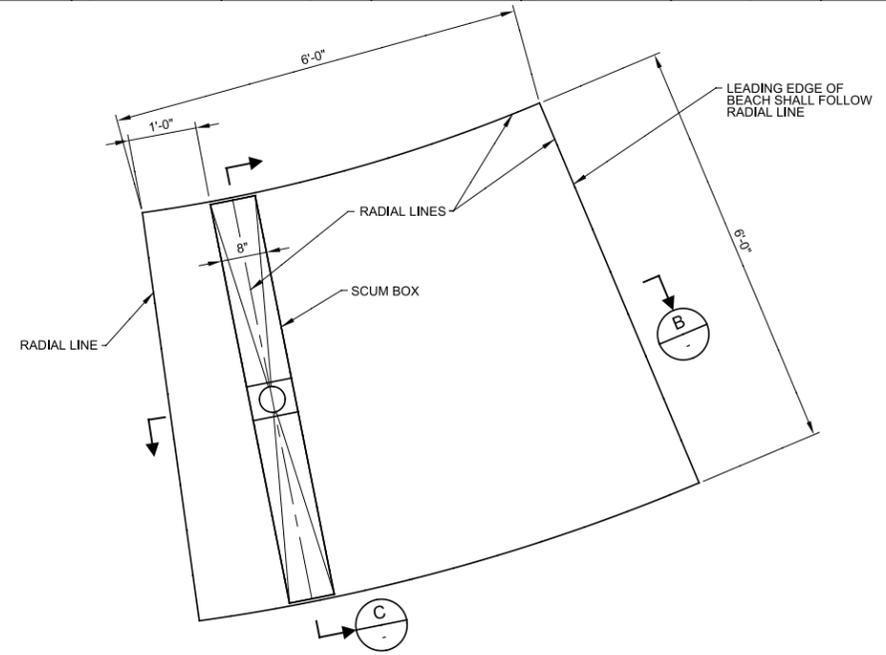
User: DDonk

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

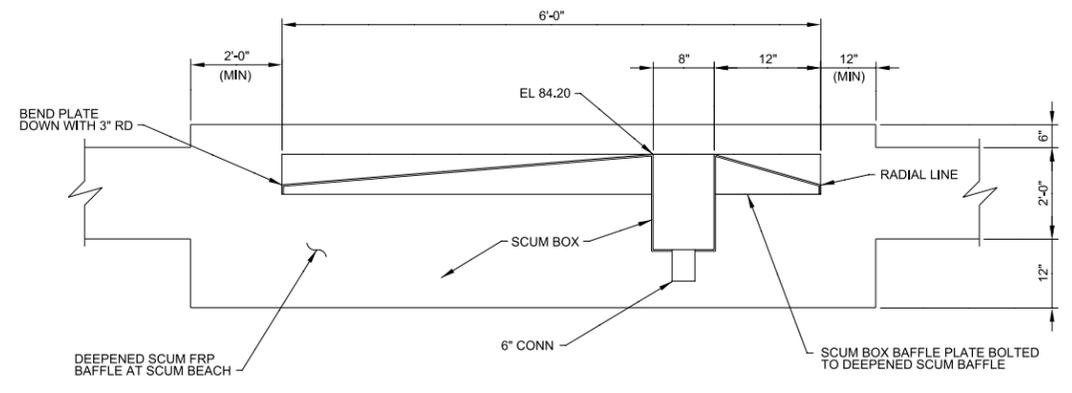
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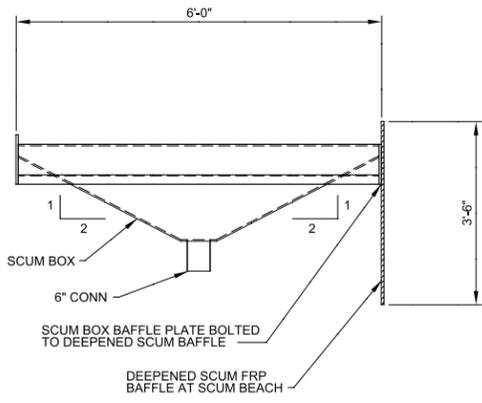
**K PARTIAL PLAN SC NO.1 (SIM SC NO.2)**  
 21M01 SCALE: 1/2"=1'-0"  
 FILE: 21M3101



**A DETAIL-SCUM BEACH**  
 SCALE: 3/4"=1'-0"  
 FILE: -



**B SECTION**  
 SCALE: NTS  
 FILE: 21-M-0204

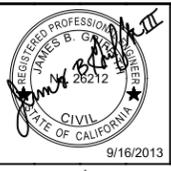


**C SECTION**  
 SCALE: NTS  
 FILE: 21-M-0204

- GENERAL NOTES**
- REFER TO DRAWING 21M01 FOR ADDITIONAL GENERAL NOTES.
- KEY NOTES**
- BURIED BUTTERFLY VALVE PER TYPICAL DETAIL P026.
  - EYE WASH SHOWER PER TYPICAL DETAIL M270.
  - CONNECT SCUM SPRAY WATER TO SPRAY WATER HEADER. PROVIDE BUTTERFLY ISOLATION VALVE.

REV	DATE	BY	DESCRIPTION

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DJD  
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**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**SECONDARY CLARIFIER NO. 1 & 2**  
 SECTIONS AND DETAILS

VERIFY SCALES  
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 0 1"  
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JOB NO.  
8930A.11  
 DRAWING NO.  
**21M04**  
 SHEET NO.  
OF 549

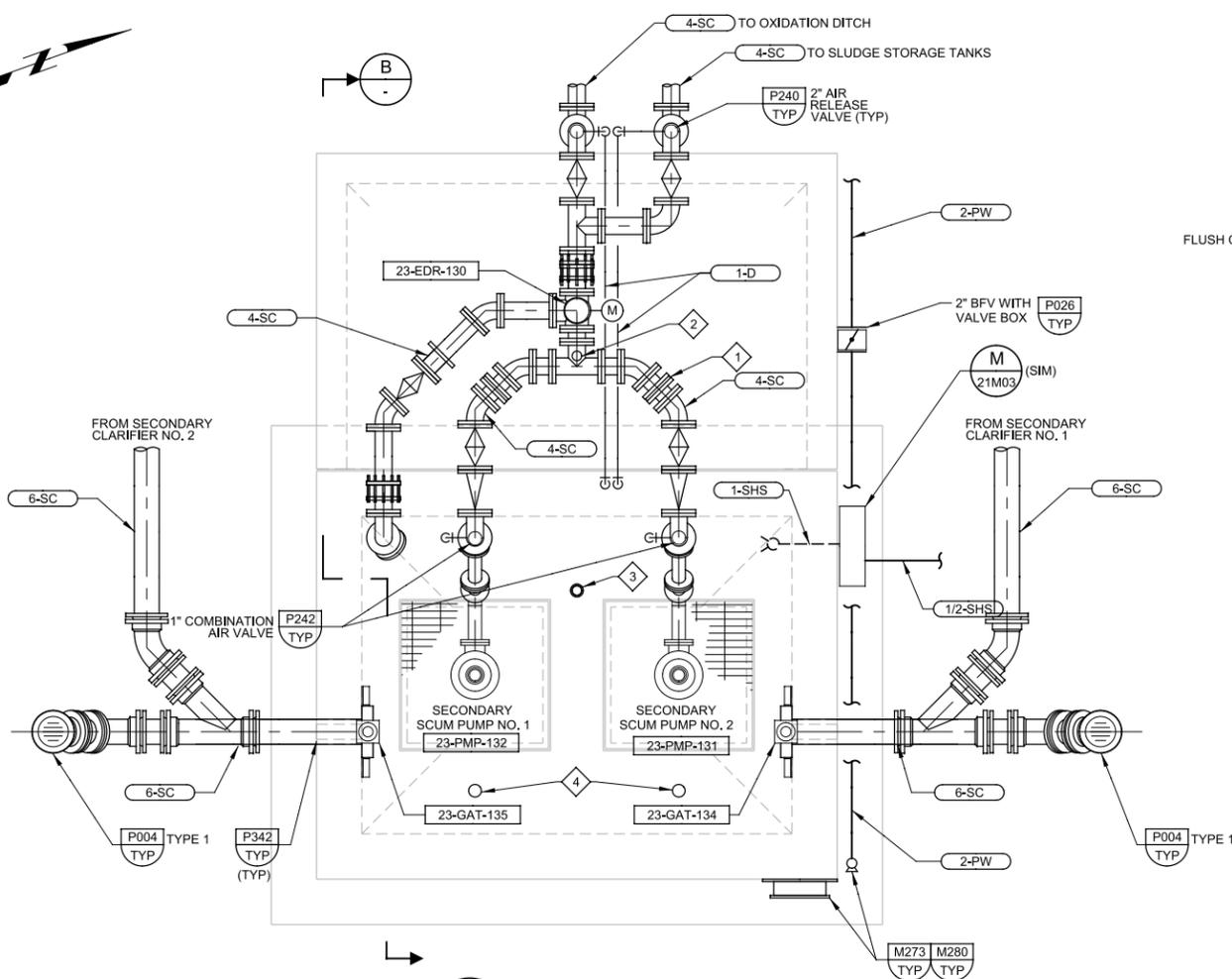
Plot Date: 16-SEP-2013 7:21:41 PM

User: DDonk

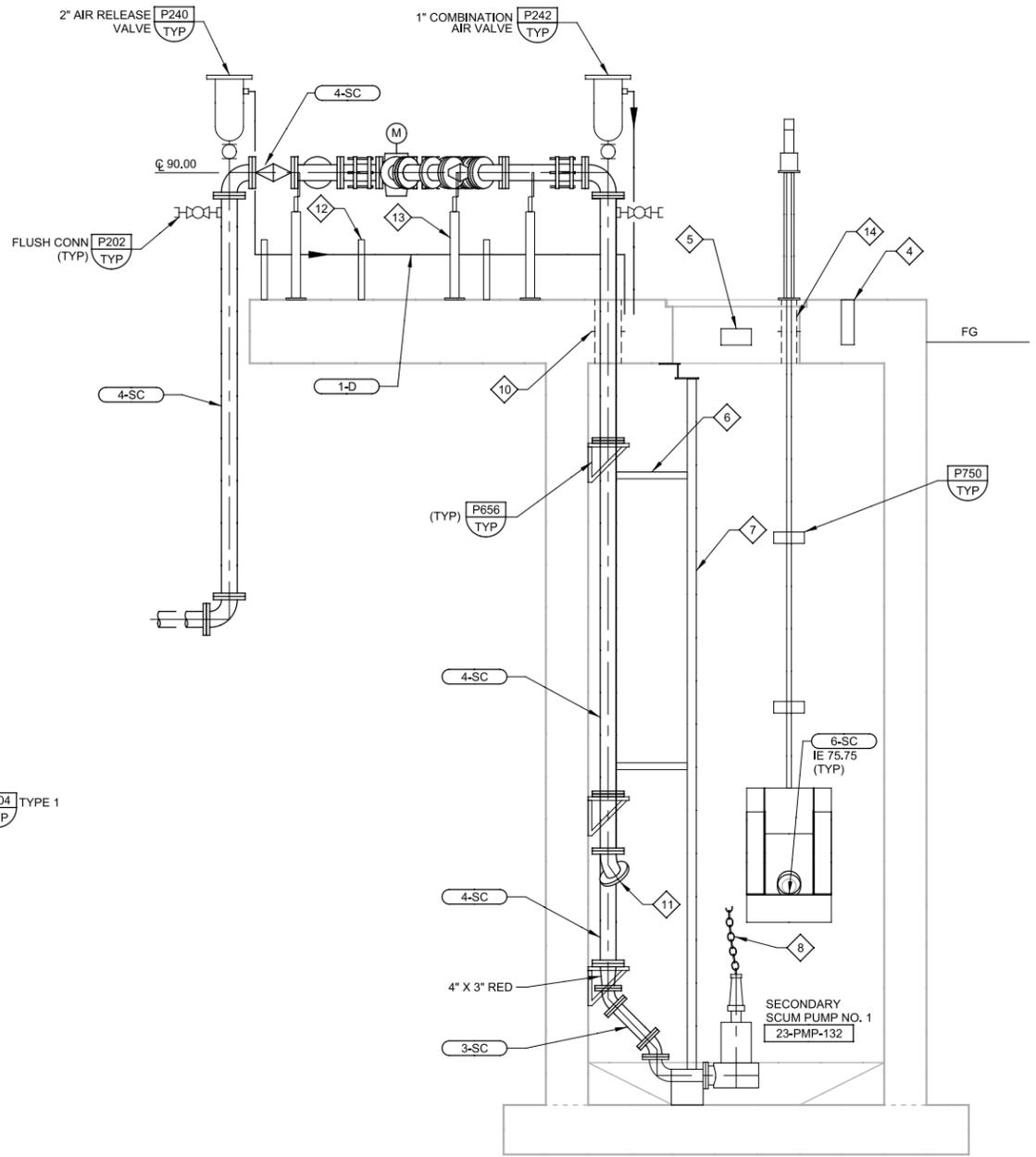
PlotScale: 2:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

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**A PLAN**  
 SCALE: 1/2" = 1'-0"  
 FILE: 8930A1123M0101, M0111, M03101



**B SECTION**  
 SCALE: 1/2" = 1'-0"  
 FILE: 8930A1123M0301, M0311, M3301

- GENERAL NOTES**
- FOR MECHANICAL SYMBOLS AND NOTES REFER TO DRAWING 00G05 AND 00G06.
  - FOR YARD PIPING CONTINUATION REFER TO THE YARD PIPING DRAWINGS
  - REFER TO THE P&ID DRAWINGS FOR INSTRUMENTATION MOUNTING DETAILS
  - THE GROUND WATER DRAIN PIPING IS NOT SHOWN. REFER TO STRUCTURAL TYPICAL SECTIONS DRAWING 00G11 FOR GROUND WATER DRAIN PIPING FOR THIS STRUCTURE
  - ALL PIPE JOINTS ABOVE GRADE SHALL BE GROOVED JOINT. ALL PIPE JOINTS BELOW GRATING SHALL BE FLANGED. UNDERGROUND PIPE JOINTS SHALL BE PER SPECIFICATIONS.
  - PROVIDE FLANGES OR FLANGE/GROOVED JOINT ADAPTERS WHERE P627/TYP PIPE SUPPORTS OR P110/TYP FLEXIBLE COUPLINGS WITH TIE RODS ARE SHOWN.

- KEY NOTES**
- FLEXIBLE TYPE GROOVED JOINT COUPLING
  - PRESSURE GAUGE: 23-PI-130.
  - LEVEL SENSOR: 23-LE-130.
  - SOCKET MOUNT FOR DAVIT CRANE.
  - CABLE/CHAIN HOLDER.
  - GUIDE RAIL SUPPORTS.
  - GUIDE RAIL.
  - LIFTING CHAIN.
  - PROVIDE WYE STRAINER, PRV WITH ISOLATION VALVE FOR PW. PROVIDE CHEMICAL SERVICE RELIEF VALVE WITH ISOLATION VALVE FOR THE SHS SERVICE. MOUNT ON PANEL.
  - TYPICAL DETAIL P302. TYPICAL FOR ALL SLAB PENETRATIONS.
  - DISCHARGE NOZZLE, 4"X3" REDUCER.
  - PIPE SUPPORT PER P615.
  - PIPE SUPPORT P624 OR P626.
  - SLEEVE FOR GATE STEM.

REV	DATE	BY	DESCRIPTION

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**SAN LUIS OBISPO COUNTY**

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 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**SCUM PUMP STATION  
 PLAN AND SECTION**

VERIFY SCALES  
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JOB NO.  
8930A.11

DRAWING NO.  
**23M01**

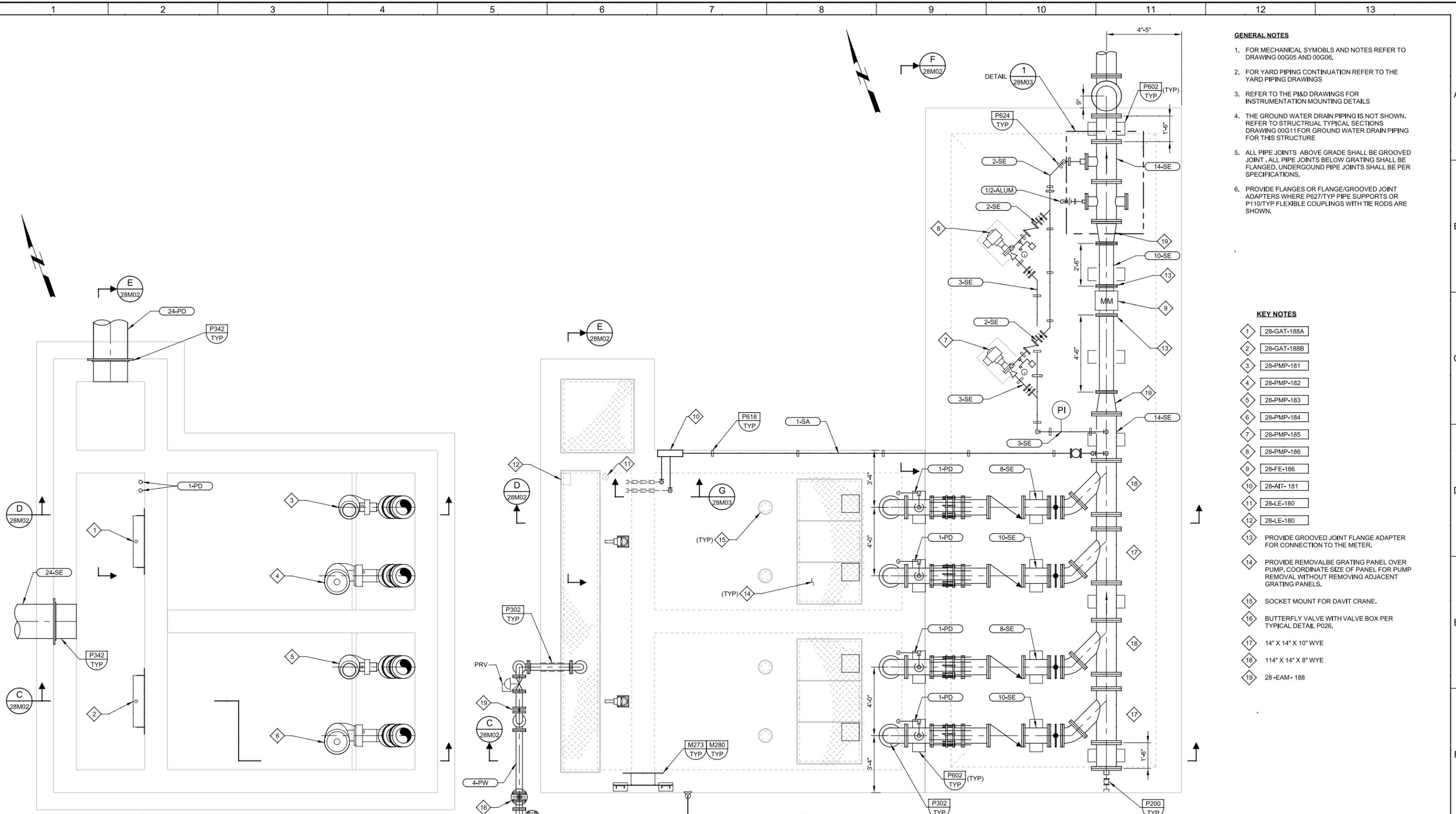
SHEET NO.  
OF 549

Plot Date: 16-SEP-2013 7:21:55 PM

User: DDDonk

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: ddonk



- GENERAL NOTES**
- FOR MECHANICAL SYMBOLS AND NOTES REFER TO DRAWING 00G05 AND 00G06.
  - FOR YARD PIPING CONTINUATION REFER TO THE YARD PIPING DRAWINGS
  - REFER TO THE P&ID DRAWINGS FOR INSTRUMENTATION MOUNTING DETAILS
  - THE GROUND WATER DRAIN PIPING IS NOT SHOWN. REFER TO STRUCTURAL TYPICAL SECTIONS DRAWING 00G111 FOR GROUND WATER DRAIN PIPING FOR THIS STRUCTURE
  - ALL PIPE JOINTS ABOVE GRADE SHALL BE GROOVED JOINT. ALL PIPE JOINTS BELOW GRATING SHALL BE FLANGED. UNDERGROUND PIPE JOINTS SHALL BE PER SPECIFICATIONS.
  - PROVIDE FLANGES OR FLANGE/GROOVED JOINT ADAPTERS WHERE P627/TYP PIPE SUPPORTS OR P110/TYP FLEXIBLE COUPLINGS WITH TIE RODS ARE SHOWN.

- KEY NOTES**
- 1 28-GAT-188A
  - 2 28-GAT-188B
  - 3 28-PMP-181
  - 4 28-PMP-182
  - 5 28-PMP-183
  - 6 28-PMP-184
  - 7 28-PMP-185
  - 8 28-PMP-186
  - 9 28-FE-186
  - 10 28-AIT-181
  - 11 28-LE-180
  - 12 28-LE-180
  - 13 PROVIDE GROOVED JOINT FLANGE ADAPTER FOR CONNECTION TO THE METER.
  - 14 PROVIDE REMOVABLE GRATING PANEL OVER PUMP. COORDINATE SIZE OF PANEL FOR PUMP REMOVAL WITHOUT REMOVING ADJACENT GRATING PANELS.
  - 15 SOCKET MOUNT FOR DAVIT CRANE.
  - 16 BUTTERFLY VALVE WITH VALVE BOX PER TYPICAL DETAIL P026.
  - 17 14" X 14" X 10" WYE
  - 18 114" X 14" X 8" WYE
  - 19 28-EAM-188

**A BOTTOM PLAN**  
SCALE: 3/8" = 1'-0"  
FILE: 8930A1128M0102

**B TOP PLAN**  
SCALE: 3/8" = 1'-0"  
FILE: 8930A1128M0101

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SGS

DATE  
SEPT 2013

REGISTERED PROFESSIONAL ENGINEER  
JAMES B. GALT  
28212  
CIVIL  
STATE OF CALIFORNIA  
9/16/2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
LOS OSOS WATER RECYCLING FACILITY PROJECT  
MECHANICAL  
FILTER INFLUENT PUMP STATION PLAN

VERIFY SCALES  
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JOB NO.  
8930A.11

DRAWING NO.  
**28M01**

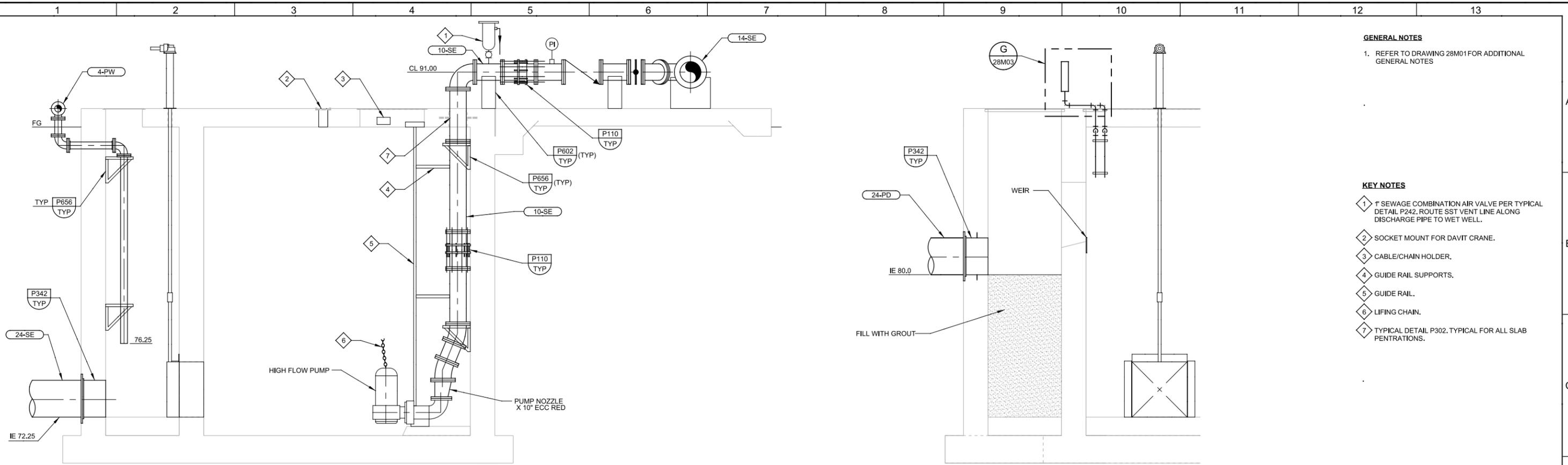
SHEET NO.  
OF 549

Plot Date: 16-SEP-2013 7:22:11 PM

User: DDonk

Model: Layout1 ColorTable: gshades.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: djacob

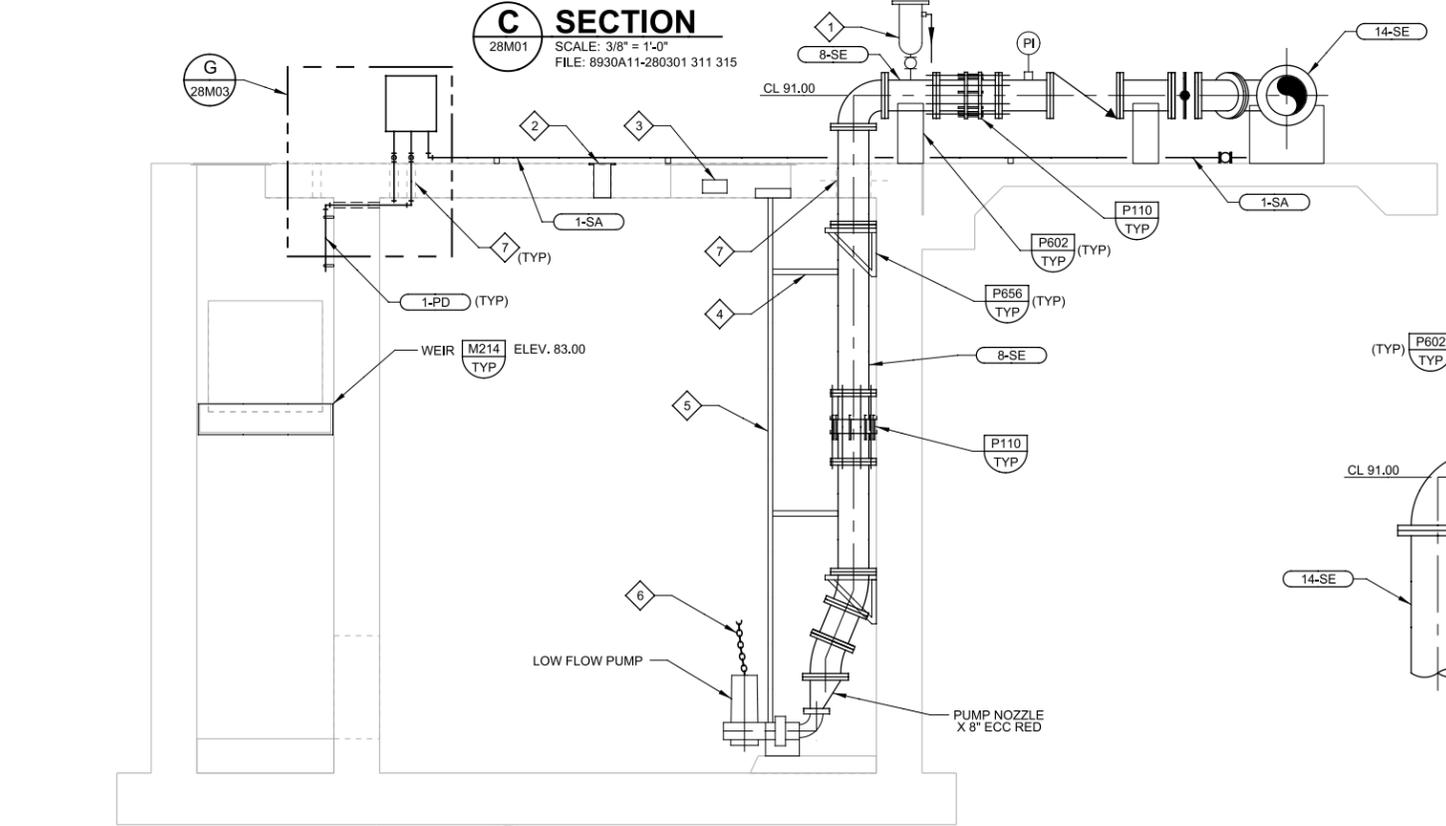


**C SECTION**  
 28M01 SCALE: 3/8" = 1'-0"  
 FILE: 8930A11-280301 311 315

**E SECTION**  
 28M01 SCALE: 3/8" = 1'-0"  
 FILE: 8930A11-280303

**GENERAL NOTES**  
 1. REFER TO DRAWING 28M01 FOR ADDITIONAL GENERAL NOTES

- KEY NOTES**
- 1 1" SEWAGE COMBINATION AIR VALVE PER TYPICAL DETAIL P242. ROUTE SST VENT LINE ALONG DISCHARGE PIPE TO WET WELL.
  - 2 SOCKET MOUNT FOR DAVIT CRANE.
  - 3 CABLE/CHAIN HOLDER.
  - 4 GUIDE RAIL SUPPORTS.
  - 5 GUIDE RAIL.
  - 6 LIFTING CHAIN.
  - 7 TYPICAL DETAIL P302. TYPICAL FOR ALL SLAB PENETRATIONS.



**D SECTION**  
 28M01 SCALE: 3/8" = 1'-0"  
 FILE: 8930A11-280302 312

**F SECTION**  
 28M01 SCALE: 1/2" = 1'-0"  
 FILE: 8930A11-280304

REV	DATE	BY	DESCRIPTION
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DBJ  
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SGS  
 DATE  
SEPT 2013

*James B. Goshorn, Inc.*  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 26212  
 9/16/2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**FILTER INFLUENT PUMP STATION SECTIONS**

VERIFY SCALES  
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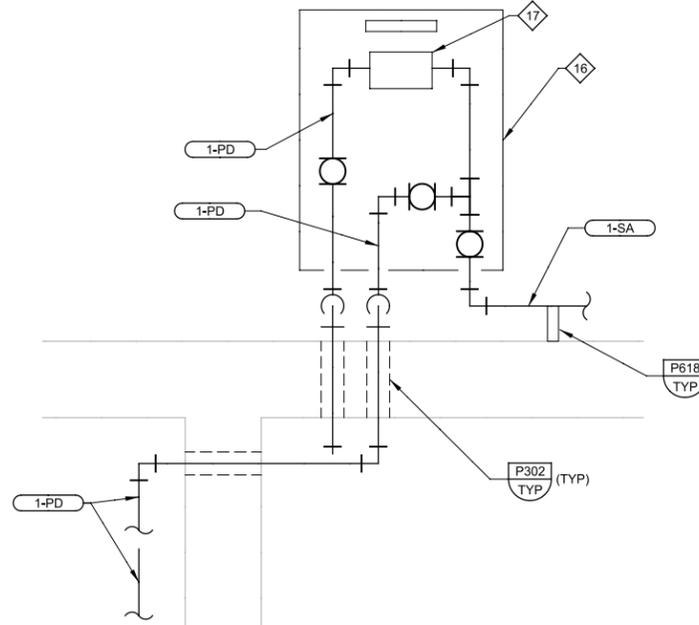
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**28M02**  
 SHEET NO.  
OF 549

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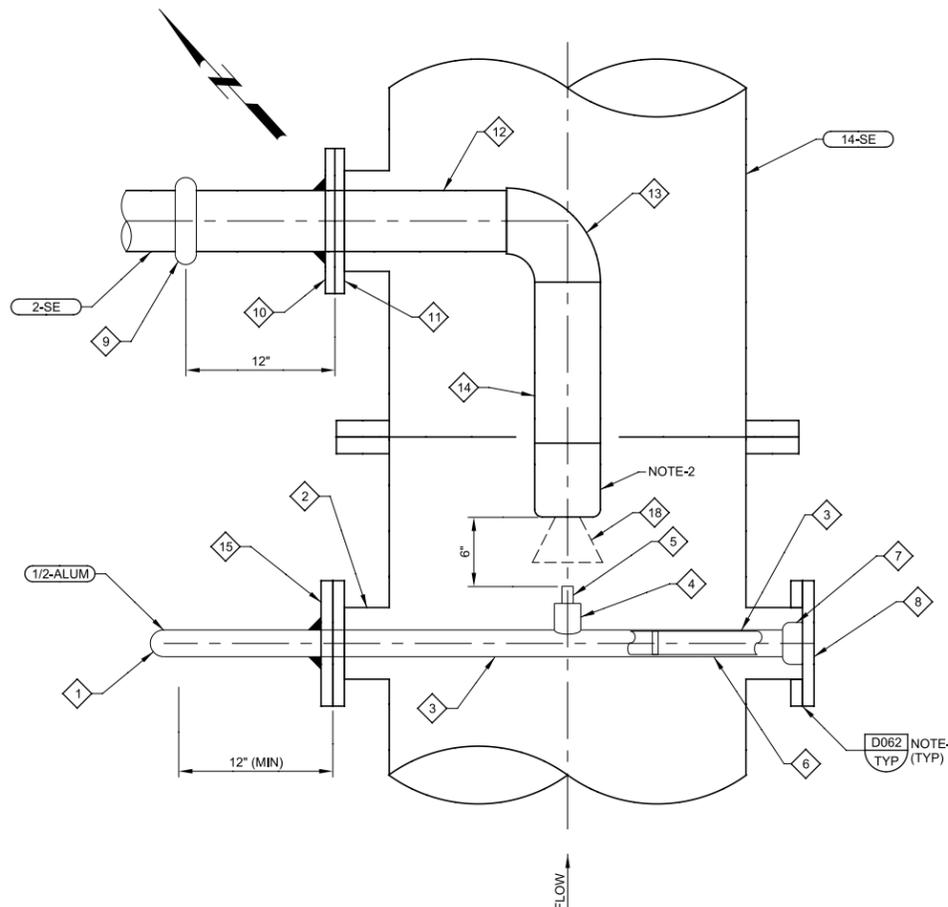
User: DDonk

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: djacobs



**G SECTION**  
 28M01 SCALE: NTS  
 FILE: 8930A11\_28\_M\_0401.2dm



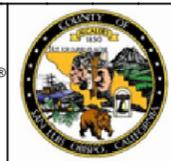
**1 PLAN-DETAIL**  
 28M01 SCALE: NTS  
 FILE: 8930A11\_28\_M\_0401.2dm

- GENERAL NOTES**
- REFER TO DRAWING 28M01 FOR ADDITIONAL GENERAL NOTES.
  - THE PIPE MATERIAL LIST FOR THIS DETAIL IS NOT COMPLETE. MANY REQUIRED FITTINGS SUCH AS UNIONS, GASKETS, BOLTS, ELBOWS, REDUCERS, BUSHINGS, AND PIPE SUPPORTS OF HANGERS ARE NOT LISTED OR SHOWN. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL NECESSARY TO COMPLETE THE INSTALLATION OF ALL PIPING AND EQUIPMENT.
  - PROVIDE INSULATING GASKETS FOR ALL DISSIMILAR MATERIALS.

- KEY NOTES**
- 1 316 SST UNION, THREADED IN VERTICAL.
  - 2 14"x14"x6"x6" CROSS.
  - 3 1/2" X LENGTH AS REQUIRED, 316 SST PIPE SCH. 40.
  - 4 1/2" 316 SST WELDED OUTLET BRANCH CONNECTION, THREADED.
  - 5 1/4" SST THREADED BUSHING.
  - 6 1/4" THICK X ID SST PLUG, FABRICATED AND WELD TO INSIDE WALL OF PIPE.
  - 7 3/4" 316 SST ALIGNING CONNECTOR, WELD TO BLIND FLANGE.
  - 8 6" SST BLIND AWWA 150 LB FLANGE...
  - 9 RIGID TYPE GROOVED TRANSITION COUPLING.
  - 10 6" 316 SST, AWWA 150 LB FLAT FACE FLANGE. WELD 2" PIPE TO FLANGE, WELD INSIDE AND OUTSIDE OF FLANGE AT CONNECTION.
  - 11 14"x14"x6" TEE.
  - 12 2" X LENGTH AS REQUIRED, 316 SST PIPE SCH 40, GROOVE X BUTT
  - 13 316 SST, SHORT RADIUS ELBOW, BUTT X BUTT
  - 14 2" X LENGTH AS REQUIRED, 316 SST PIPE SCH. 40, BUTT X THREAD, SEE GENERAL NOTE 3.
  - 15 6" SST AWWA 150 LB FLANGE, WELD 1/2" PIPE TO FLANGE, WELD INSIDE AND OUTSIDE OF FLANGE AT 1" CONNECTION
  - 16 MOUNT ON AN ALUMINIUM BACKBOARD PER TYPICAL DETAIL EM202.
  - 17 28-AIT-181
  - 18 NOZZLE - FULL CONE SPRAY PATTERN 78 GPM @ 10 PSI WITH 1.141" DIA ORIFICE, SPRAYING SYSTEMS CO. MODEL 2R-SS9545, OR EQUAL.

REV	DATE	BY	DESCRIPTION

DESIGNED  
JBG  
 DRAWN  
DBJ  
 CHECKED  
SGS  
 DATE  
SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
 FILTER INFLUENT PUMP STATION  
 SECTION AND DETAIL

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

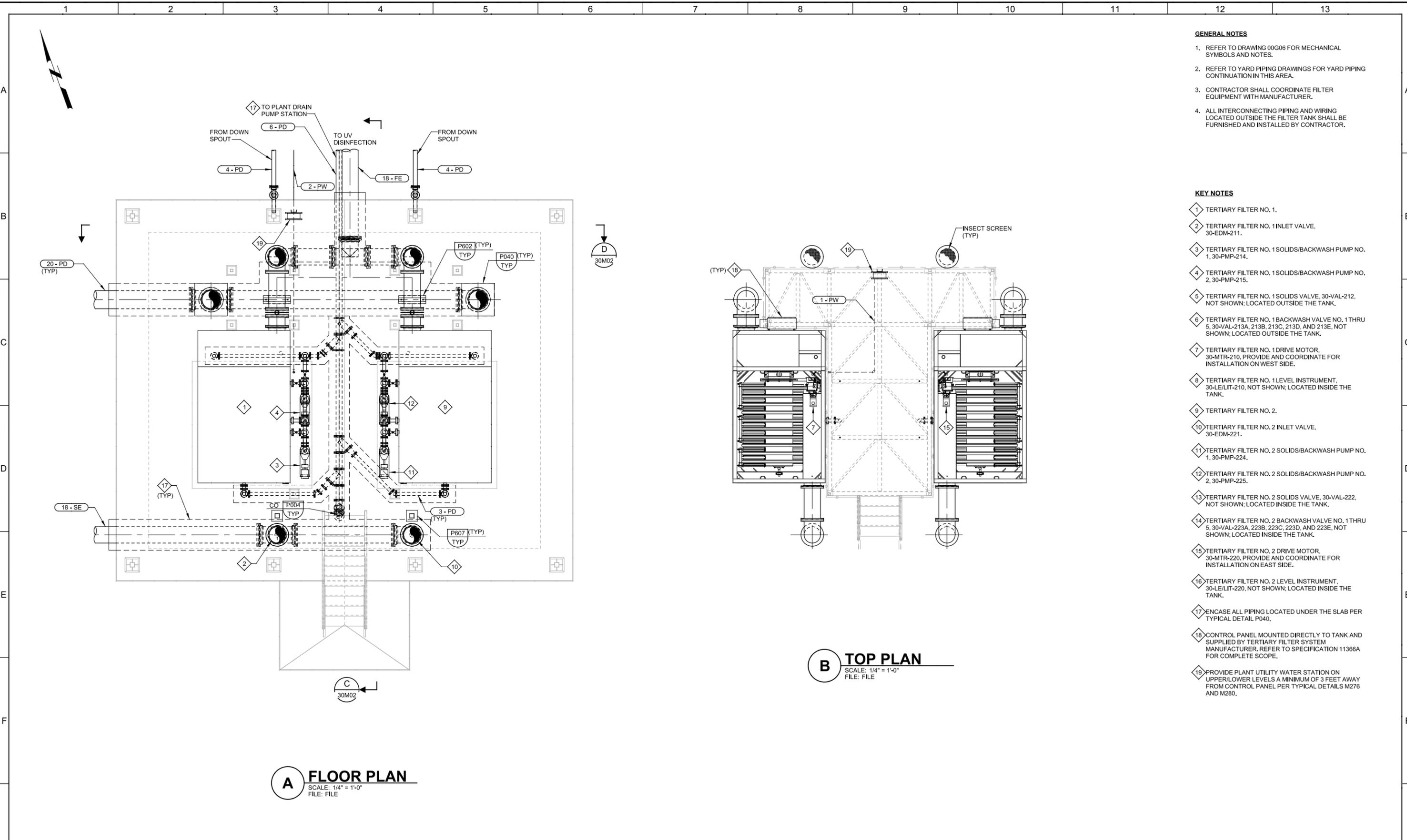
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8930A.11  
 DRAWING NO.  
**28M03**  
 SHEET NO.  
OF 549

Plot Date: 16-SEP-2013 7:22:42 PM

User: DDonk

Model: Layout1 ColorTable: gshades.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: ddonk



- GENERAL NOTES**
- REFER TO DRAWING 00G06 FOR MECHANICAL SYMBOLS AND NOTES.
  - REFER TO YARD PIPING DRAWINGS FOR YARD PIPING CONTINUATION IN THIS AREA.
  - CONTRACTOR SHALL COORDINATE FILTER EQUIPMENT WITH MANUFACTURER.
  - ALL INTERCONNECTING PIPING AND WIRING LOCATED OUTSIDE THE FILTER TANK SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.

- KEY NOTES**
- TERTIARY FILTER NO. 1.
  - TERTIARY FILTER NO. 1 INLET VALVE, 30-EDM-211.
  - TERTIARY FILTER NO. 1 SOLIDS/BACKWASH PUMP NO. 1, 30-PMP-214.
  - TERTIARY FILTER NO. 1 SOLIDS/BACKWASH PUMP NO. 2, 30-PMP-215.
  - TERTIARY FILTER NO. 1 SOLIDS VALVE, 30-VAL-212, NOT SHOWN; LOCATED OUTSIDE THE TANK.
  - TERTIARY FILTER NO. 1 BACKWASH VALVE NO. 1 THRU 5, 30-VAL-213A, 213B, 213C, 213D, AND 213E, NOT SHOWN; LOCATED OUTSIDE THE TANK.
  - TERTIARY FILTER NO. 1 DRIVE MOTOR, 30-MTR-210, PROVIDE AND COORDINATE FOR INSTALLATION ON WEST SIDE.
  - TERTIARY FILTER NO. 1 LEVEL INSTRUMENT, 30-LE/LIT-210, NOT SHOWN; LOCATED INSIDE THE TANK.
  - TERTIARY FILTER NO. 2.
  - TERTIARY FILTER NO. 2 INLET VALVE, 30-EDM-221.
  - TERTIARY FILTER NO. 2 SOLIDS/BACKWASH PUMP NO. 1, 30-PMP-224.
  - TERTIARY FILTER NO. 2 SOLIDS/BACKWASH PUMP NO. 2, 30-PMP-225.
  - TERTIARY FILTER NO. 2 SOLIDS VALVE, 30-VAL-222, NOT SHOWN; LOCATED INSIDE THE TANK.
  - TERTIARY FILTER NO. 2 BACKWASH VALVE NO. 1 THRU 5, 30-VAL-223A, 223B, 223C, 223D, AND 223E, NOT SHOWN; LOCATED INSIDE THE TANK.
  - TERTIARY FILTER NO. 2 DRIVE MOTOR, 30-MTR-220, PROVIDE AND COORDINATE FOR INSTALLATION ON EAST SIDE.
  - TERTIARY FILTER NO. 2 LEVEL INSTRUMENT, 30-LE/LIT-220, NOT SHOWN; LOCATED INSIDE THE TANK.
  - ENCASE ALL PIPING LOCATED UNDER THE SLAB PER TYPICAL DETAIL P040.
  - CONTROL PANEL MOUNTED DIRECTLY TO TANK AND SUPPLIED BY TERTIARY FILTER SYSTEM MANUFACTURER. REFER TO SPECIFICATION 11366A FOR COMPLETE SCOPE.
  - PROVIDE PLANT UTILITY WATER STATION ON UPPER/LOWER LEVELS A MINIMUM OF 3 FEET AWAY FROM CONTROL PANEL PER TYPICAL DETAILS M276 AND M280.

**A FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
FILE: FILE

**B TOP PLAN**  
SCALE: 1/4" = 1'-0"  
FILE: FILE

REV	DATE	BY	DESCRIPTION
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KNB

DATE  
SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
LOS OSOS WATER RECYCLING FACILITY PROJECT  
MECHANICAL  
**TERTIARY FILTERS PLAN**

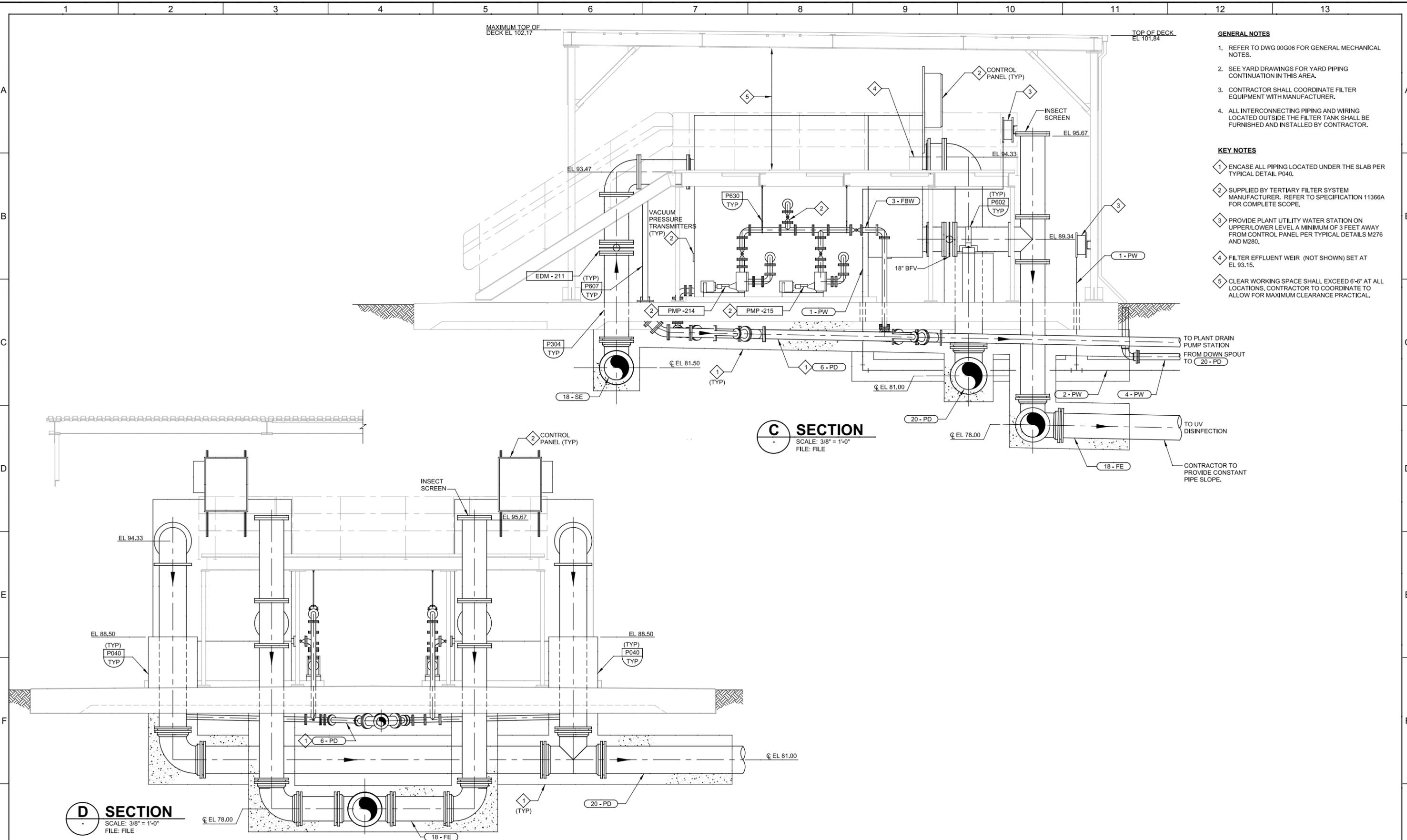
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User: DDunk

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: ddunk



- GENERAL NOTES**
- REFER TO DWG 00G06 FOR GENERAL MECHANICAL NOTES.
  - SEE YARD DRAWINGS FOR YARD PIPING CONTINUATION IN THIS AREA.
  - CONTRACTOR SHALL COORDINATE FILTER EQUIPMENT WITH MANUFACTURER.
  - ALL INTERCONNECTING PIPING AND WIRING LOCATED OUTSIDE THE FILTER TANK SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.
- KEY NOTES**
- ENCASE ALL PIPING LOCATED UNDER THE SLAB PER TYPICAL DETAIL P040.
  - SUPPLIED BY TERTIARY FILTER SYSTEM MANUFACTURER. REFER TO SPECIFICATION 11366A FOR COMPLETE SCOPE.
  - PROVIDE PLANT UTILITY WATER STATION ON UPPER/LOWER LEVEL A MINIMUM OF 3 FEET AWAY FROM CONTROL PANEL PER TYPICAL DETAILS M276 AND M280.
  - FILTER EFFLUENT WEIR (NOT SHOWN) SET AT EL 93.15.
  - CLEAR WORKING SPACE SHALL EXCEED 6'-6" AT ALL LOCATIONS. CONTRACTOR TO COORDINATE TO ALLOW FOR MAXIMUM CLEARANCE PRACTICAL.

**C SECTION**  
SCALE: 3/8" = 1'-0"  
FILE: FILE

**D SECTION**  
SCALE: 3/8" = 1'-0"  
FILE: FILE

REV	DATE	BY	DESCRIPTION
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CHECKED KNB	
DATE SEPT 2013	



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
LOS OSOS WATER RECYCLING FACILITY PROJECT  
MECHANICAL  
TERTIARY FILTERS SECTIONS

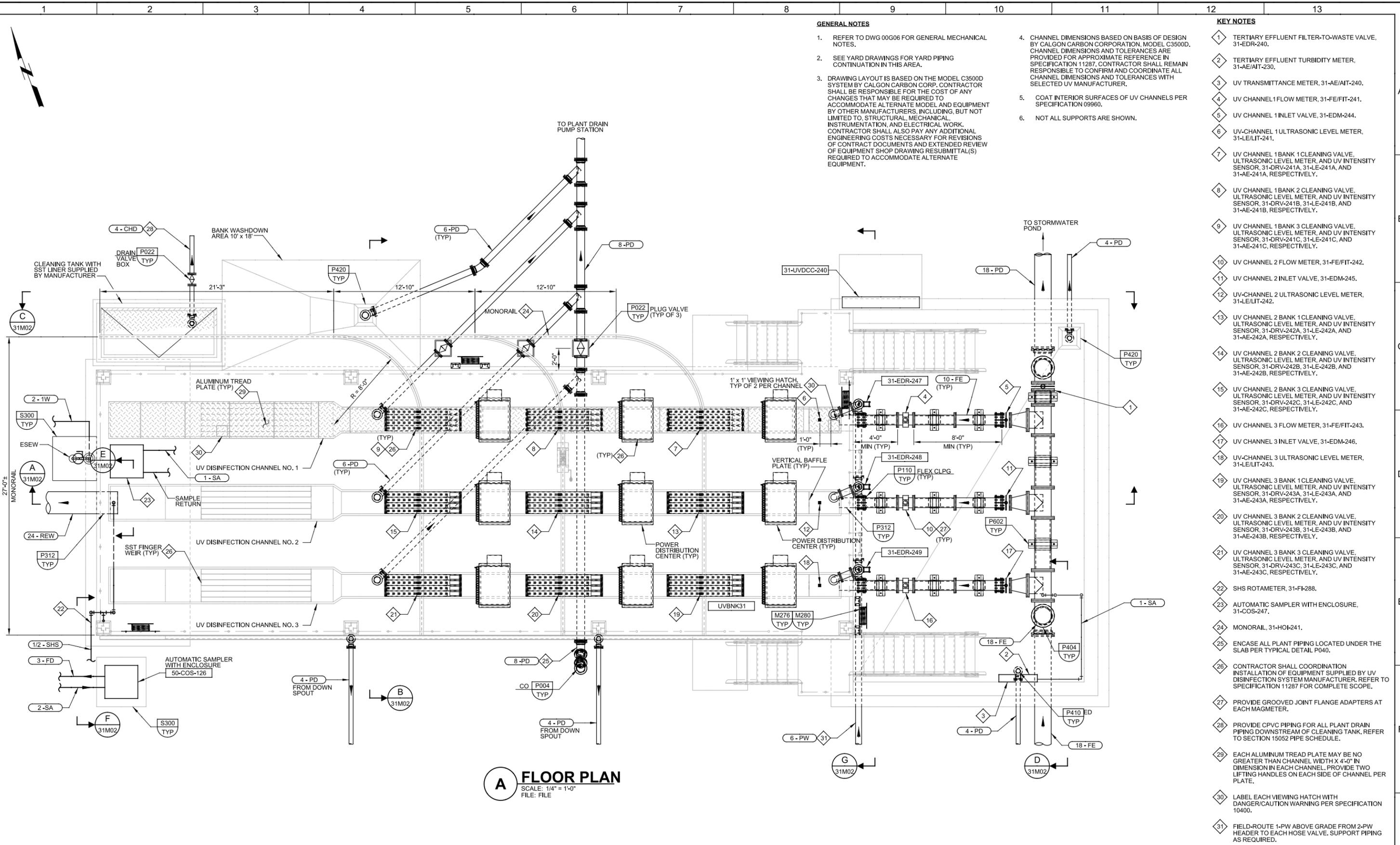
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	SHEET NO. OF 549

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LAST SAVED BY: ddonk



**A FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"  
 FILE: FILE

**GENERAL NOTES**

- REFER TO DWG 00G06 FOR GENERAL MECHANICAL NOTES.
- SEE YARD DRAWINGS FOR YARD PIPING CONTINUATION IN THIS AREA.
- DRAWING LAYOUT IS BASED ON THE MODEL C3500D SYSTEM BY CALGON CARBON CORP. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY CHANGES THAT MAY BE REQUIRED TO ACCOMMODATE ALTERNATE MODEL AND EQUIPMENT BY OTHER MANUFACTURERS, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, INSTRUMENTATION, AND ELECTRICAL WORK. CONTRACTOR SHALL ALSO PAY ANY ADDITIONAL ENGINEERING COSTS NECESSARY FOR REVISIONS OF CONTRACT DOCUMENTS AND EXTENDED REVIEW OF EQUIPMENT SHOP DRAWING RESUBMITTAL(S) REQUIRED TO ACCOMMODATE ALTERNATE EQUIPMENT.

**KEY NOTES**

- TERTIARY EFFLUENT FILTER-TO-WASTE VALVE, 31-EDR-240.
- TERTIARY EFFLUENT TURBIDITY METER, 31-AE/AIT-230.
- UV TRANSMITTANCE METER, 31-AE/AIT-240.
- UV CHANNEL 1 FLOW METER, 31-FE/FIT-241.
- UV CHANNEL 1 INLET VALVE, 31-EDM-244.
- UV-CHANNEL 1 ULTRASONIC LEVEL METER, 31-LE/LIT-241.
- UV CHANNEL 1 BANK 1 CLEANING VALVE, ULTRASONIC LEVEL METER, AND UV INTENSITY SENSOR, 31-DRV-241A, 31-LE-241A, AND 31-AE-241A, RESPECTIVELY.
- UV CHANNEL 1 BANK 2 CLEANING VALVE, ULTRASONIC LEVEL METER, AND UV INTENSITY SENSOR, 31-DRV-241B, 31-LE-241B, AND 31-AE-241B, RESPECTIVELY.
- UV CHANNEL 1 BANK 3 CLEANING VALVE, ULTRASONIC LEVEL METER, AND UV INTENSITY SENSOR, 31-DRV-241C, 31-LE-241C, AND 31-AE-241C, RESPECTIVELY.
- UV CHANNEL 2 FLOW METER, 31-FE/FIT-242.
- UV CHANNEL 2 INLET VALVE, 31-EDM-245.
- UV-CHANNEL 2 ULTRASONIC LEVEL METER, 31-LE/LIT-242.
- UV CHANNEL 2 BANK 1 CLEANING VALVE, ULTRASONIC LEVEL METER, AND UV INTENSITY SENSOR, 31-DRV-242A, 31-LE-242A, AND 31-AE-242A, RESPECTIVELY.
- UV CHANNEL 2 BANK 2 CLEANING VALVE, ULTRASONIC LEVEL METER, AND UV INTENSITY SENSOR, 31-DRV-242B, 31-LE-242B, AND 31-AE-242B, RESPECTIVELY.
- UV CHANNEL 2 BANK 3 CLEANING VALVE, ULTRASONIC LEVEL METER, AND UV INTENSITY SENSOR, 31-DRV-242C, 31-LE-242C, AND 31-AE-242C, RESPECTIVELY.
- UV CHANNEL 3 FLOW METER, 31-FE/FIT-243.
- UV CHANNEL 3 INLET VALVE, 31-EDM-246.
- UV-CHANNEL 3 ULTRASONIC LEVEL METER, 31-LE/LIT-243.
- UV CHANNEL 3 BANK 1 CLEANING VALVE, ULTRASONIC LEVEL METER, AND UV INTENSITY SENSOR, 31-DRV-243A, 31-LE-243A, AND 31-AE-243A, RESPECTIVELY.
- UV CHANNEL 3 BANK 2 CLEANING VALVE, ULTRASONIC LEVEL METER, AND UV INTENSITY SENSOR, 31-DRV-243B, 31-LE-243B, AND 31-AE-243B, RESPECTIVELY.
- UV CHANNEL 3 BANK 3 CLEANING VALVE, ULTRASONIC LEVEL METER, AND UV INTENSITY SENSOR, 31-DRV-243C, 31-LE-243C, AND 31-AE-243C, RESPECTIVELY.
- SHS ROTAMETER, 31-FI-288.
- AUTOMATIC SAMPLER WITH ENCLOSURE, 31-COS-247.
- MONORAIL, 31-HOI-241.
- ENCASE ALL PLANT PIPING LOCATED UNDER THE SLAB PER TYPICAL DETAIL P040.
- CONTRACTOR SHALL COORDINATION INSTALLATION OF EQUIPMENT SUPPLIED BY UV DISINFECTION SYSTEM MANUFACTURER. REFER TO SPECIFICATION 11287 FOR COMPLETE SCOPE.
- PROVIDE GROOVED JOINT FLANGE ADAPTERS AT EACH MAGMETER.
- PROVIDE CPVC PIPING FOR ALL PLANT DRAIN PIPING DOWNSTREAM OF CLEANING TANK. REFER TO SECTION 15052 PIPE SCHEDULE.
- EACH ALUMINUM TREAD PLATE MAY BE NO GREATER THAN CHANNEL WIDTH X 4'-0" IN DIMENSION IN EACH CHANNEL. PROVIDE TWO LIFTING HANDLES ON EACH SIDE OF CHANNEL PER PLATE.
- LABEL EACH VIEWING HATCH WITH DANGER/CAUTION WARNING PER SPECIFICATION 10400.
- FIELD-ROUTE 1-PW ABOVE GRADE FROM 2-PW HEADER TO EACH HOSE VALVE. SUPPORT PIPING AS REQUIRED.

REV	DATE	BY	DESCRIPTION

DESIGNED SML	
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DATE SEPT 2013	

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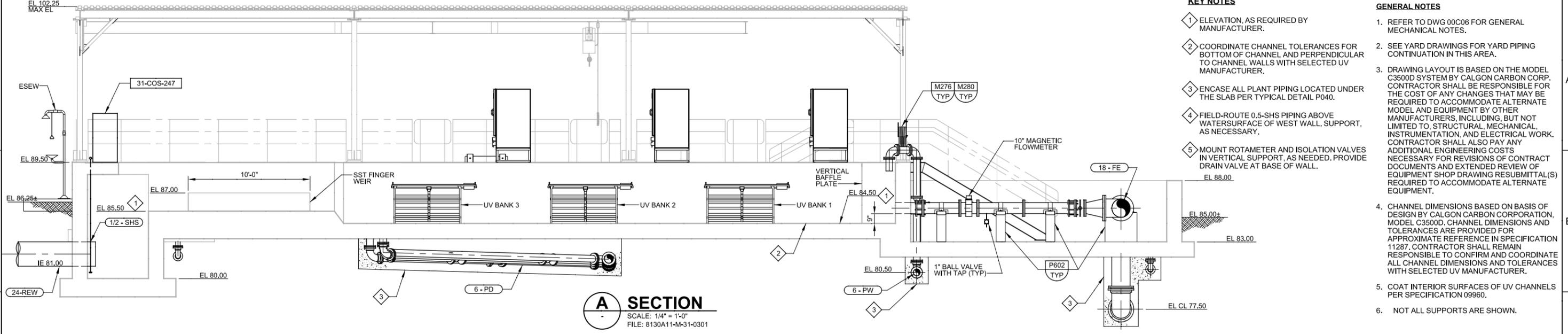


SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
 UV DISINFECTION PLAN

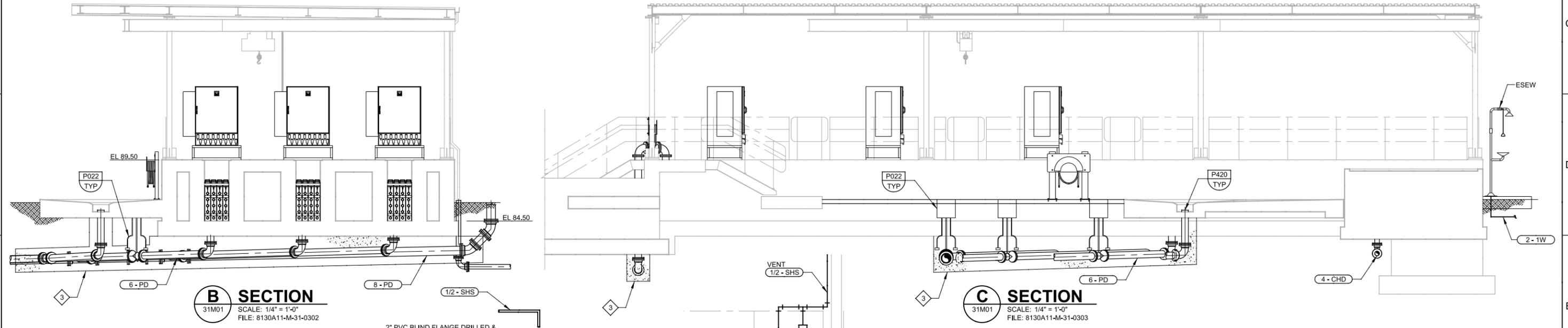
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. 31M01
	SHEET NO. OF 549

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 LAST SAVED BY: ddunk

- KEY NOTES**
- ELEVATION, AS REQUIRED BY MANUFACTURER.
  - COORDINATE CHANNEL TOLERANCES FOR BOTTOM OF CHANNEL AND PERPENDICULAR TO CHANNEL WALLS WITH SELECTED UV MANUFACTURER.
  - ENCASE ALL PLANT PIPING LOCATED UNDER THE SLAB PER TYPICAL DETAIL P040.
  - FIELD-ROUTE 0.5-SHS PIPING ABOVE WATERSURFACE OF WEST WALL SUPPORT, AS NECESSARY.
  - MOUNT ROTAMETER AND ISOLATION VALVES IN VERTICAL SUPPORT, AS NEEDED. PROVIDE DRAIN VALVE AT BASE OF WALL.
- GENERAL NOTES**
- REFER TO DWG 00C06 FOR GENERAL MECHANICAL NOTES.
  - SEE YARD DRAWINGS FOR YARD PIPING CONTINUATION IN THIS AREA.
  - DRAWING LAYOUT IS BASED ON THE MODEL C3500D SYSTEM BY CALGON CARBON CORP. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY CHANGES THAT MAY BE REQUIRED TO ACCOMMODATE ALTERNATE MODEL AND EQUIPMENT BY OTHER MANUFACTURERS, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, INSTRUMENTATION, AND ELECTRICAL WORK. CONTRACTOR SHALL ALSO PAY ANY ADDITIONAL ENGINEERING COSTS NECESSARY FOR REVISIONS OF CONTRACT DOCUMENTS AND EXTENDED REVIEW OF EQUIPMENT SHOP DRAWING RESUBMITTAL(S) REQUIRED TO ACCOMMODATE ALTERNATE EQUIPMENT.
  - CHANNEL DIMENSIONS BASED ON BASIS OF DESIGN BY CALGON CARBON CORPORATION, MODEL C3500D. CHANNEL DIMENSIONS AND TOLERANCES ARE PROVIDED FOR APPROXIMATE REFERENCE IN SPECIFICATION 11287. CONTRACTOR SHALL REMAIN RESPONSIBLE TO CONFIRM AND COORDINATE ALL CHANNEL DIMENSIONS AND TOLERANCES WITH SELECTED UV MANUFACTURER.
  - COAT INTERIOR SURFACES OF UV CHANNELS PER SPECIFICATION 09960.
  - NOT ALL SUPPORTS ARE SHOWN.

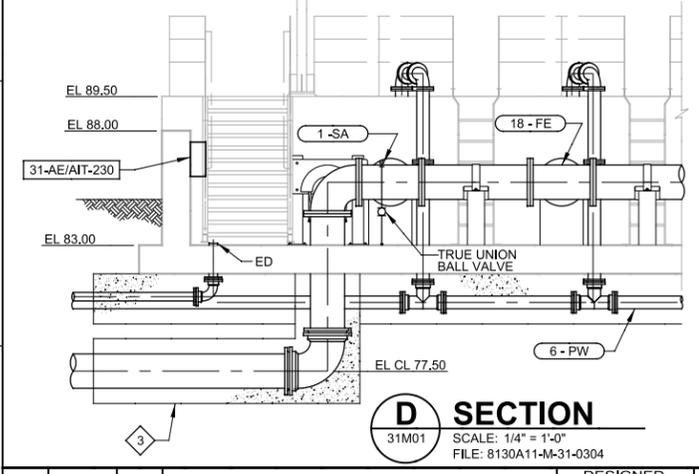


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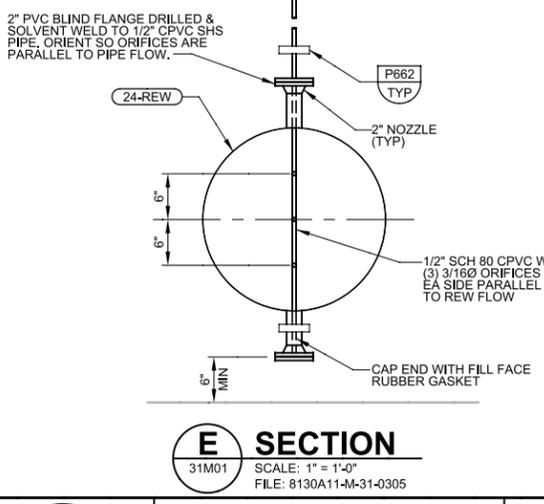


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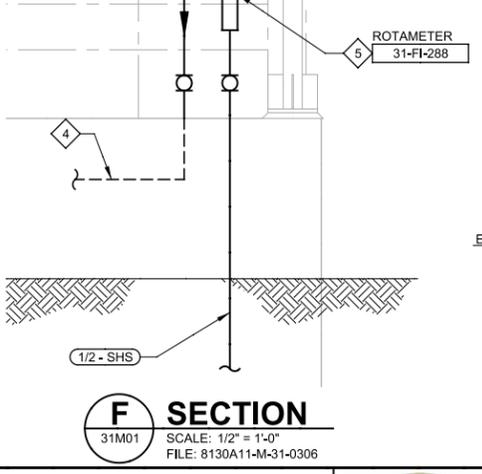
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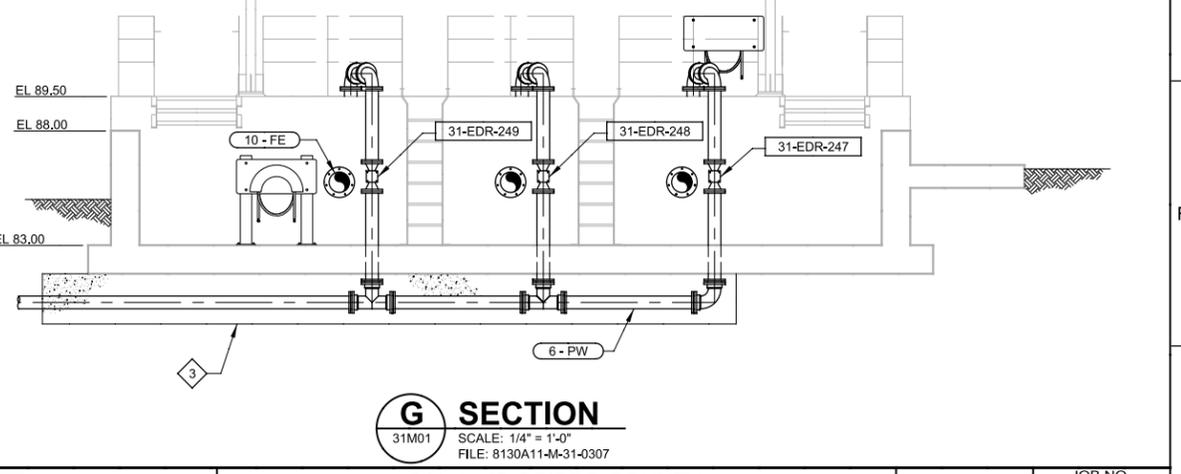
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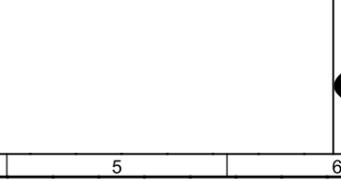
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SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
 UV DISINFECTION SECTIONS

VERIFY SCALES  
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

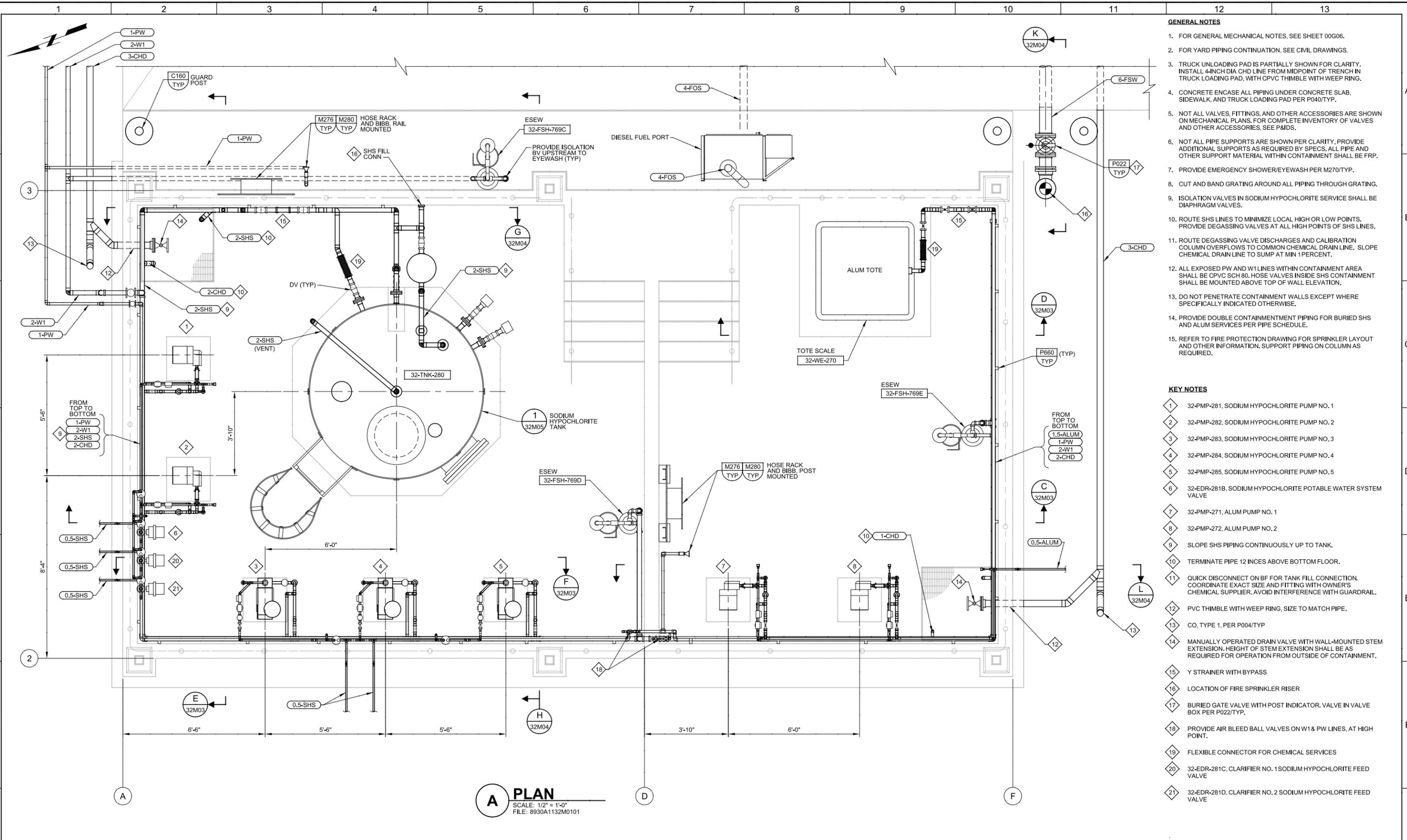
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**A PLAN**  
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- GENERAL NOTES**
- FOR GENERAL MECHANICAL NOTES, SEE SHEET 00G06.
  - FOR YARD PIPING CONTINUATION, SEE CIVIL DRAWINGS.
  - TRUCK UNLOADING PAD IS PARTIALLY SHOWN FOR CLARITY. INSTALL 4-INCH DIA CHD LINE FROM MIDPOINT OF TRENCH IN TRUCK LOADING PAD, WITH CPVC THIMBLE WITH WEEP RING.
  - CONCRETE ENCASE ALL PIPING UNDER CONCRETE SLAB, SIDEWALK, AND TRUCK LOADING PAD PER P040/TYP.
  - NOT ALL VALVES, FITTINGS, AND OTHER ACCESSORIES ARE SHOWN ON MECHANICAL PLANS. FOR COMPLETE INVENTORY OF VALVES AND OTHER ACCESSORIES, SEE P&IDs.
  - NOT ALL PIPE SUPPORTS ARE SHOWN PER CLARITY. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED BY SPECS. ALL PIPE AND OTHER SUPPORT MATERIAL WITHIN CONTAINMENT SHALL BE FRP.
  - PROVIDE EMERGENCY SHOWER/EYEWASH PER M270/TYP.
  - CUT AND BAND GRATING AROUND ALL PIPING THROUGH GRATING.
  - ISOLATION VALVES IN SODIUM HYPOCHLORITE SERVICE SHALL BE DIAPHRAGM VALVES.
  - ROUTE SHS LINES TO MINIMIZE LOCAL HIGH OR LOW POINTS. PROVIDE DEGASSING VALVES AT ALL HIGH POINTS OF SHS LINES.
  - ROUTE DEGASSING VALVE DISCHARGES AND CALIBRATION COLUMN OVERFLOWS TO COMMON CHEMICAL DRAIN LINE. SLOPE CHEMICAL DRAIN LINE TO SUMP AT MIN 1 PERCENT.
  - ALL EXPOSED PW AND W1 LINES WITHIN CONTAINMENT AREA SHALL BE CPVC SCH 80. HOSE VALVES INSIDE SHS CONTAINMENT SHALL BE MOUNTED ABOVE TOP OF WALL ELEVATION.
  - DO NOT PENETRATE CONTAINMENT WALLS EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE.
  - PROVIDE DOUBLE CONTAINMENT PIPING FOR BURIED SHS AND ALUM SERVICES PER PIPE SCHEDULE.
  - REFER TO FIRE PROTECTION DRAWING FOR SPRINKLER LAYOUT AND OTHER INFORMATION. SUPPORT PIPING ON COLUMNS AS REQUIRED.

- KEY NOTES**
- 32-PMP-281, SODIUM HYPOCHLORITE PUMP NO. 1
  - 32-PMP-282, SODIUM HYPOCHLORITE PUMP NO. 2
  - 32-PMP-283, SODIUM HYPOCHLORITE PUMP NO. 3
  - 32-PMP-284, SODIUM HYPOCHLORITE PUMP NO. 4
  - 32-PMP-285, SODIUM HYPOCHLORITE PUMP NO. 5
  - 32-EDR-281B, SODIUM HYPOCHLORITE POTABLE WATER SYSTEM VALVE
  - 32-PMP-271, ALUM PUMP NO. 1
  - 32-PMP-272, ALUM PUMP NO. 2
  - SLOPE SHS PIPING CONTINUOUSLY UP TO TANK.
  - TERMINATE PIPE 12 INCHES ABOVE BOTTOM FLOOR.
  - QUICK DISCONNECT ON BF FOR TANK FILL CONNECTION. COORDINATE EXACT SIZE AND FITTING WITH OWNER'S CHEMICAL SUPPLIER. AVOID INTERFERENCE WITH GUARDRAIL.
  - PVC THIMBLE WITH WEEP RING, SIZE TO MATCH PIPE.
  - CO, TYPE 1, PER P004/TYP
  - MANUALLY OPERATED DRAIN VALVE WITH WALL-MOUNTED STEM EXTENSION. HEIGHT OF STEM EXTENSION SHALL BE AS REQUIRED FOR OPERATION FROM OUTSIDE OF CONTAINMENT.
  - Y STRAINER WITH BYPASS
  - LOCATION OF FIRE SPRINKLER RISER
  - BURIED GATE VALVE WITH POST INDICATOR. VALVE IN VALVE BOX PER P022/TYP.
  - PROVIDE AIR BLEED BALL VALVES ON W1 & PW LINES, AT HIGH POINT.
  - FLEXIBLE CONNECTOR FOR CHEMICAL SERVICES
  - 32-EDR-281C, CLARIFIER NO. 1 SODIUM HYPOCHLORITE FEED VALVE
  - 32-EDR-281D, CLARIFIER NO. 2 SODIUM HYPOCHLORITE FEED VALVE

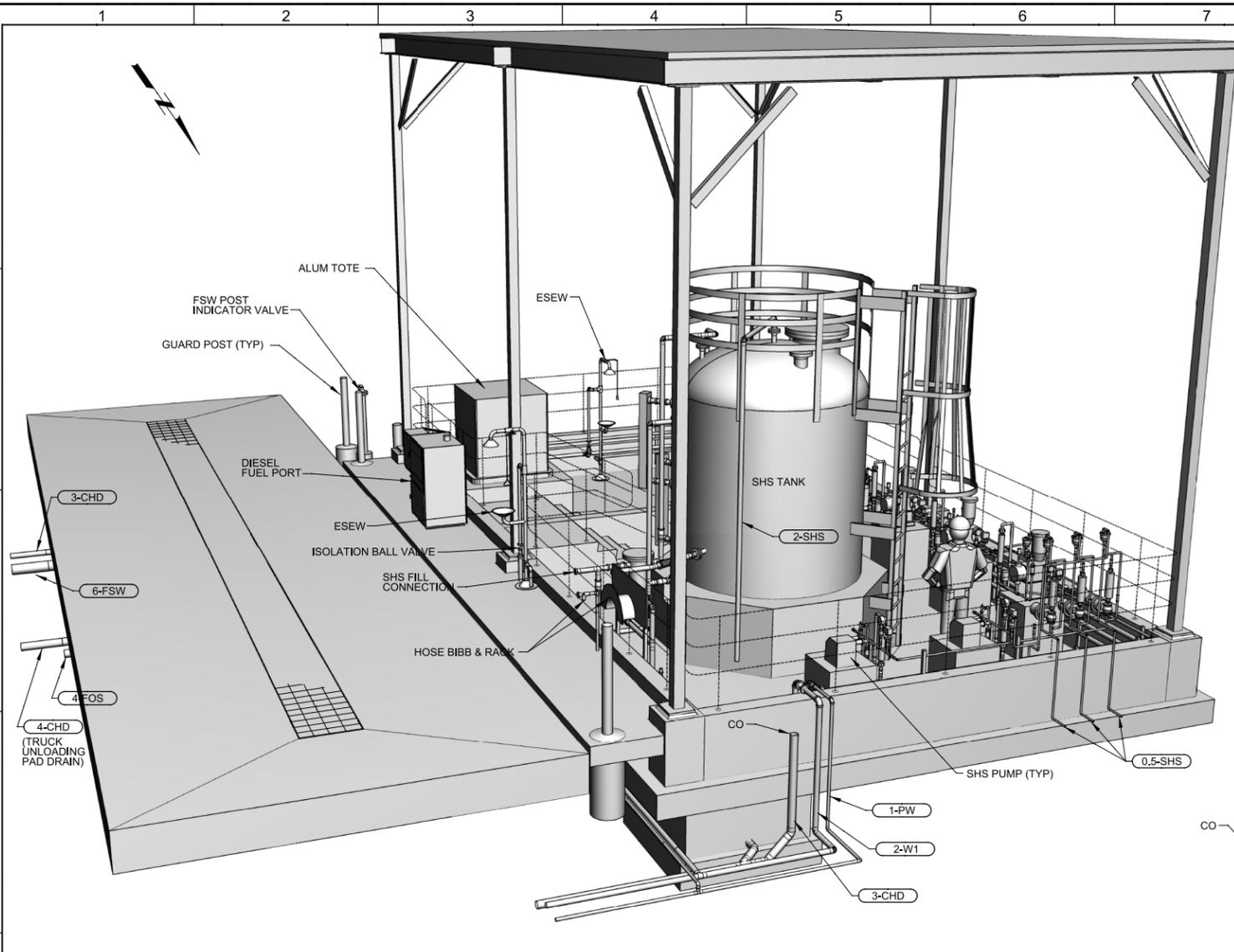
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DATE SEPT 2013	

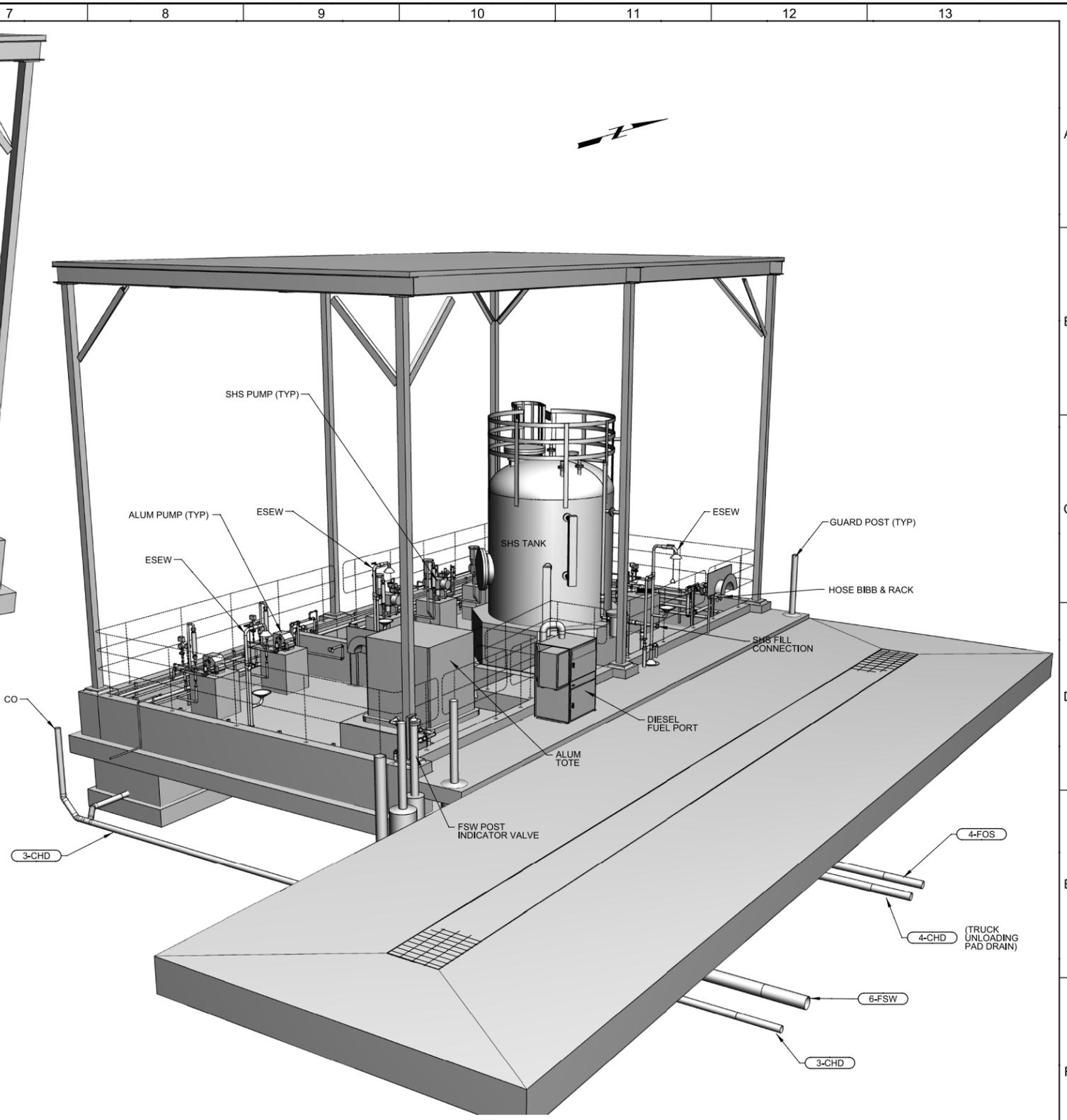
**SAN LUIS OBISPO COUNTY**

<p>SAN LUIS OBISPO COUNTY          LOS OSOS WATER RECYCLING FACILITY PROJECT</p>		<p>VERIFY SCALES          BAR IS ONE INCH ON ORIGINAL DRAWING          0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</p>	<p>JOB NO. 8930A.11          DRAWING NO. <b>32M01</b>          SHEET NO. OF 549</p>
<p>MECHANICAL  <b>CHEMICAL FACILITY PLAN</b></p>			

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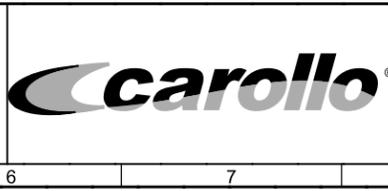
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 FILE: 32M0711



**C VIEW - LOOKING NORTH**  
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 FILE: 32M0712

REV	DATE	BY	DESCRIPTION

DESIGNED HGK	
DRAWN DJD	
CHECKED KJM	
DATE SEPT 2013	



**SAN LUIS OBISPO COUNTY**  
 MECHANICAL

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
**CHEMICAL FACILITY VIEWS**

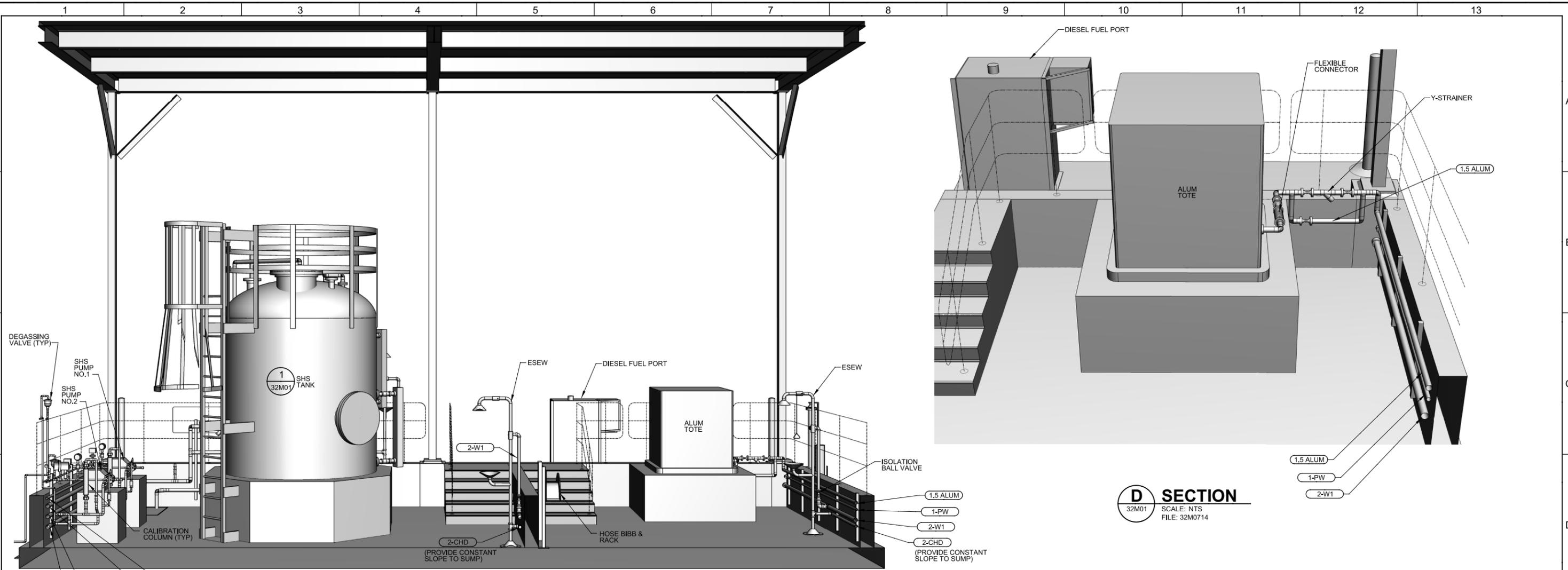
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Plot Date: 16-SEP-2013 7:24:32 PM

User: DDunk

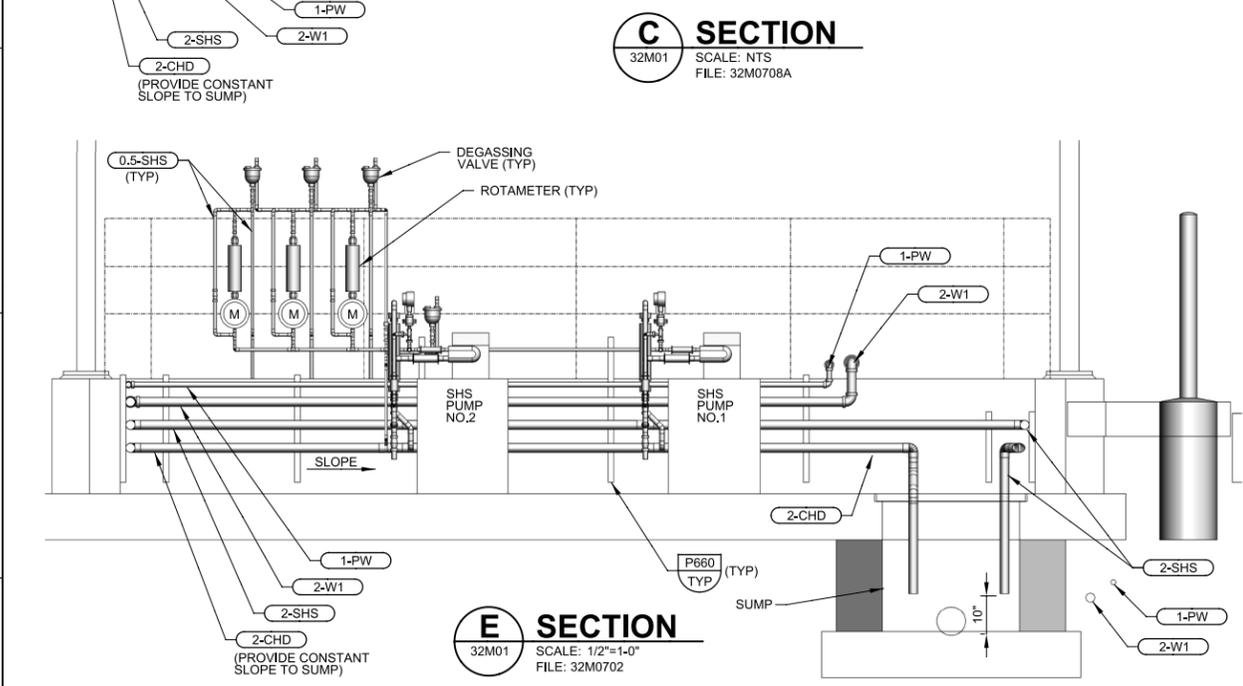
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LAST SAVED BY: ddunk

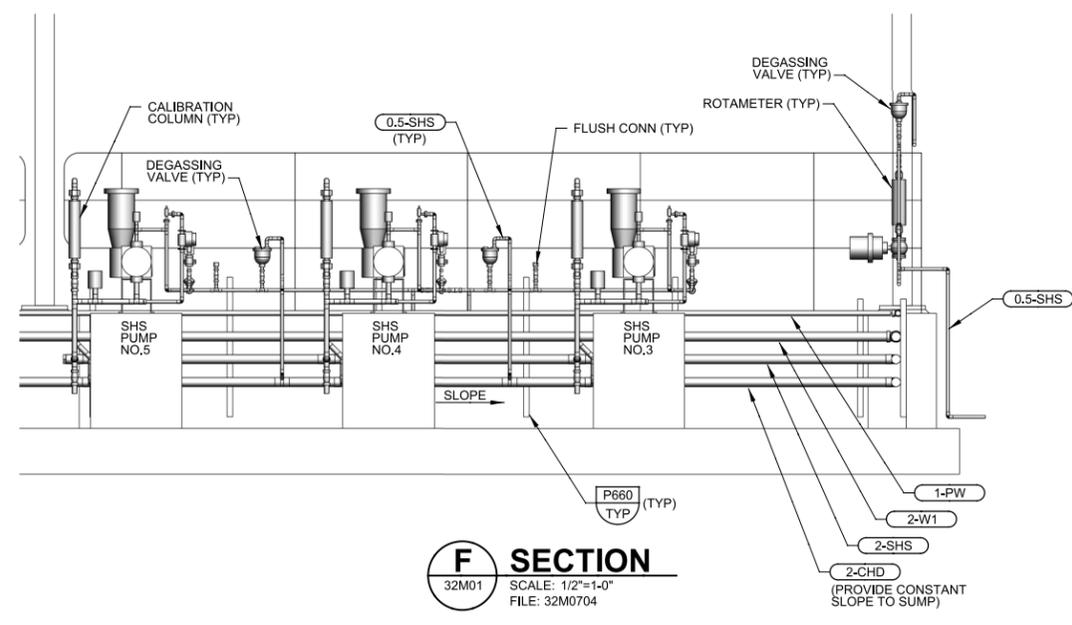


**C SECTION**  
32M01 SCALE: NTS  
FILE: 32M0708A

**D SECTION**  
32M01 SCALE: NTS  
FILE: 32M0714



**E SECTION**  
32M01 SCALE: 1/2"=1-0"  
FILE: 32M0702



**F SECTION**  
32M01 SCALE: 1/2"=1-0"  
FILE: 32M0704

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED  
HGK  
DRAWN  
DJJ  
CHECKED  
KJM  
DATE  
SEPT 2013



**SAN LUIS OBISPO COUNTY**

**SAN LUIS OBISPO COUNTY**  
**LOS OSOS WATER RECYCLING FACILITY PROJECT**  
MECHANICAL  
**CHEMICAL FACILITY SECTIONS**

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

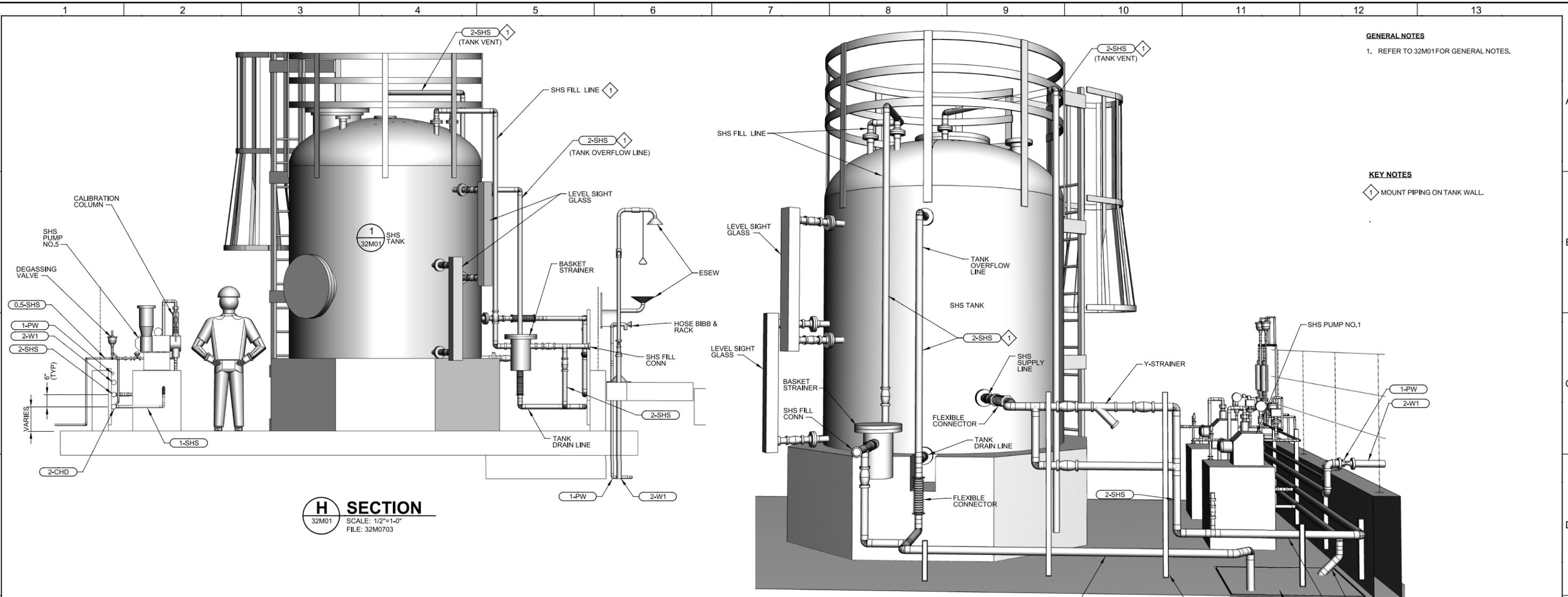
JOB NO.  
8930A.11  
DRAWING NO.  
**32M03**  
SHEET NO.  
OF 549

Plot Date: 16-SEP-2013 7:24:57 PM

User: DDonk

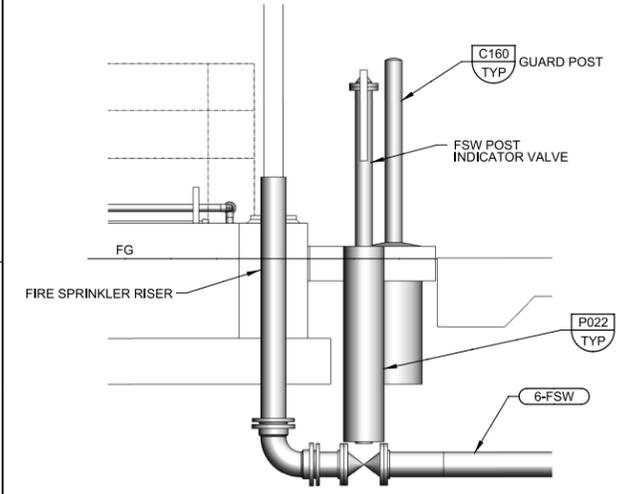
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LAST SAVED BY: ddonk

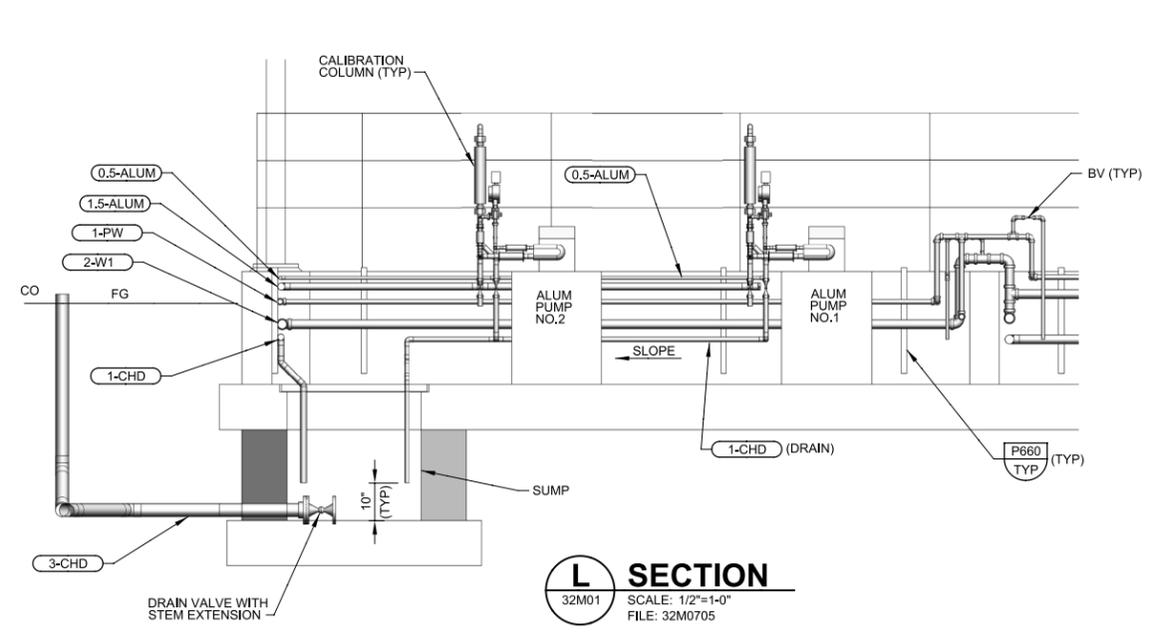


**H SECTION**  
32M01 SCALE: 1/2"=1'-0"  
FILE: 32M0703

**G SECTION**  
32M01 SCALE: NTS  
FILE: 32M0709



**K SECTION**  
32M01 SCALE: 1/2"=1'-0"  
FILE: 32M0710



**L SECTION**  
32M01 SCALE: 1/2"=1'-0"  
FILE: 32M0705

**GENERAL NOTES**  
1. REFER TO 32M01 FOR GENERAL NOTES.

**KEY NOTES**  
1. MOUNT PIPING ON TANK WALL.

REV	DATE	BY	DESCRIPTION

DESIGNED HGK
DRAWN DJJ
CHECKED KJM
DATE SEPT 2013



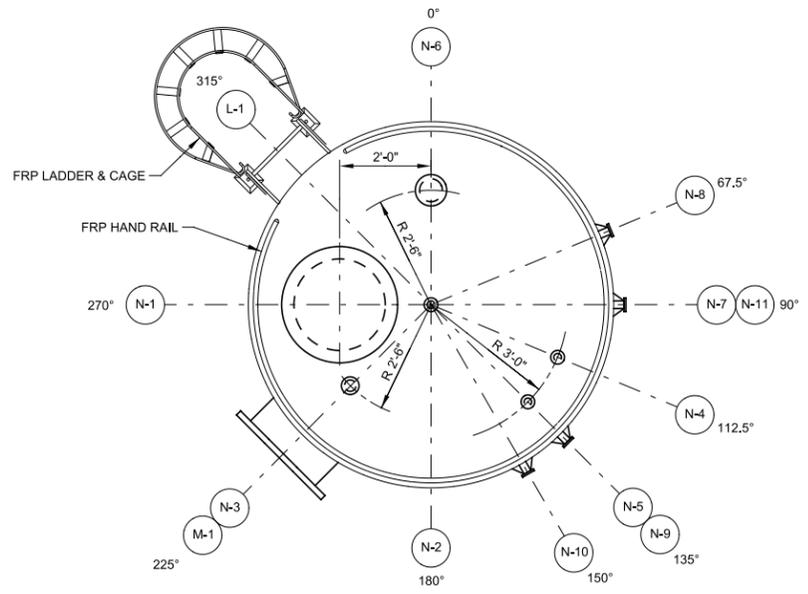
**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
LOS OSOS WATER RECYCLING FACILITY PROJECT  
MECHANICAL  
CHEMICAL FACILITY SECTIONS

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 8930A.11  
DRAWING NO. 32M04  
SHEET NO. OF 549

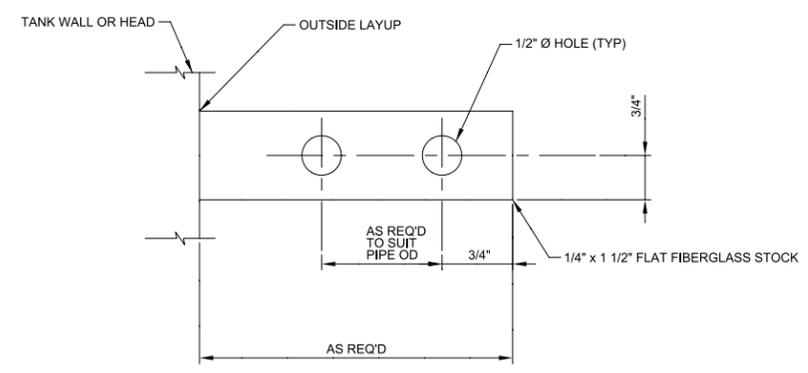
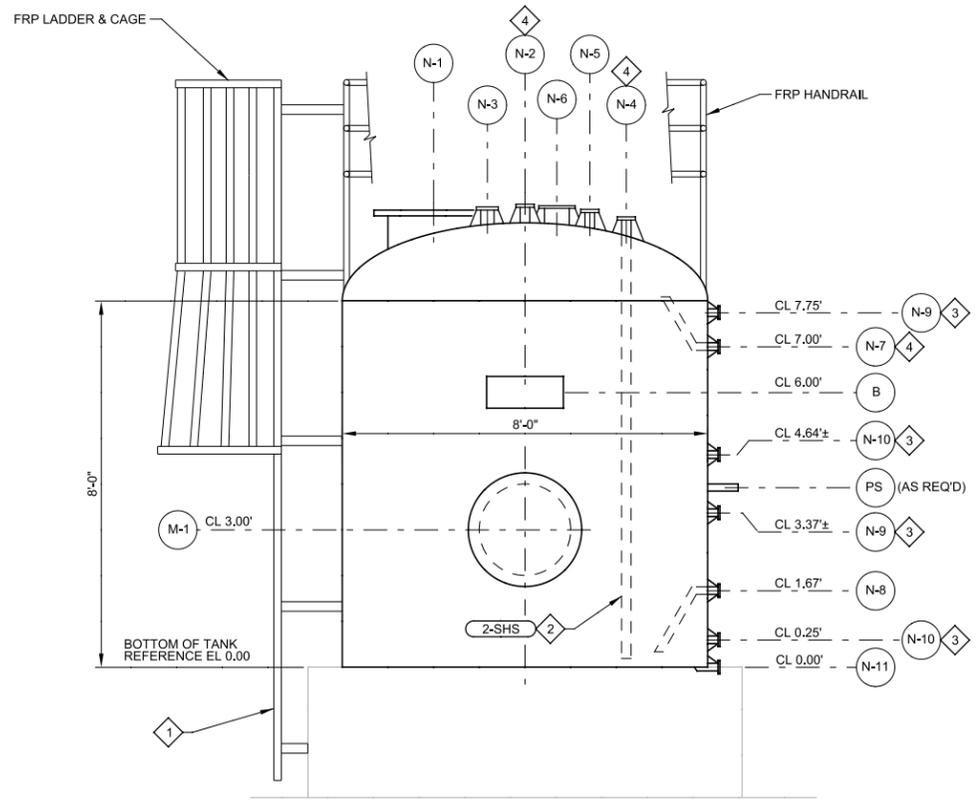
Plot Date: 16-SEP-2013 7:25:17 PM  
 User: DDonk  
 Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1  
 LAST SAVED BY: ddonk



TANK NOZZLE SCHEDULE					
NO.	QUANTITY	SIZE	FLG RATING AND SCHEDULE	PROJECTION	SERVICE
M1	1	24"	M002/TYP, SHEET 6	6"	MANWAY
N1	1	24"	M002/TYP, SHEET 6 (SIM)	6"	MANWAY
N2	1	2"	M002/TYP, SHEET 3	6"	VENT
N3	1	3"	M002/TYP, SHEET 3	6"	SPARE
N4	1	2"	M002/TYP, SHEET 3 (SIM)	6"	FILL
N5	1	2"	M002/TYP, SHEET 3 (SIM)	6"	SIPHON BREAK
N6	1	6"	M002/TYP, SHEET 3 (SIM)	6"	ULTRASONIC SENSOR
N7	1	2"	M002/TYP, SHEET 4	6"	OVERFLOW
N8	1	2"	M002/TYP, SHEET 5	6"	PROCESS SIPHON OUTLET
N9	2	2"	M002/TYP, SHEET 8	6"	SIGHT GLASS, UPPER
N10	2	2"	M002/TYP, SHEET 8	6"	SIGHT GLASS, LOWER
N11	1	2"	M002/TYP, SHEET 8 (SIM)	6"	FULL BOTTOM DRAIN
L1	1	-	-	-	FRP LADDER WITH CAGE
B	1	-	-	-	NAME PLATE
PS	SPACE 5" MAX OC	-	SEE DETAIL 2	SEE DETAIL 2	PIPE SUPPORT CLIP

- GENERAL NOTES**
- FOR GENERAL MECHANICAL NOTES, SEE SHEET 00G06.
  - NOZZLES SHOWN IN ELEVATION ARE OUT OF SECTION. SEE PLAN FOR TRUE ORIENTATION.

- KEY NOTES**
- EXTEND LADDER TO CONTAINMENT FLOOR. VERTICALLY SUPPORT LADDER AT CONTAINMENT FLOOR.
  - SUPPORT PIPING INSIDE TANK PER TANK NOZZLE SCHEDULE.
  - PROVIDE TANK SIGHT GLASSES PER TANK SPECIFICATIONS.
  - SUPPORT VERTICAL PIPING EXTERIOR OF TANK THAT ARE ASSOCIATED WITH THESE NOZZLES, ON TANK EXTERIOR WALL, REFER TO 32M04.



NOTE:  
 FASTEN PIPING AND CONDUITS TO SUPPORTS W/ ST STL CLAMPS AND HARDWARE ON TANK EXTERIOR. USE NONMETALLIC CLAMPS AND HARDWARE ON TANK INTERIOR.

**1 DETAIL - TANK**

32M01 SCALE: NTS  
 FILE: 8930A11-32M-0330

**2 DETAIL - PIPE SUPPORT CLIP**

SCALE: N.T.S.  
 FILE: -

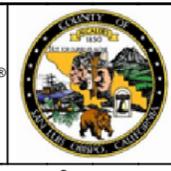
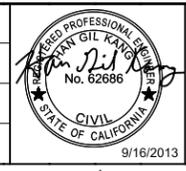
REV	DATE	BY	DESCRIPTION

DESIGNED  
HGK

DRAWN  
DBJ

CHECKED  
KJM

DATE  
SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**CHEMICAL FACILITY DETAILS**

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
8930A.11

DRAWING NO.  
**32M05**

SHEET NO.  
OF 549

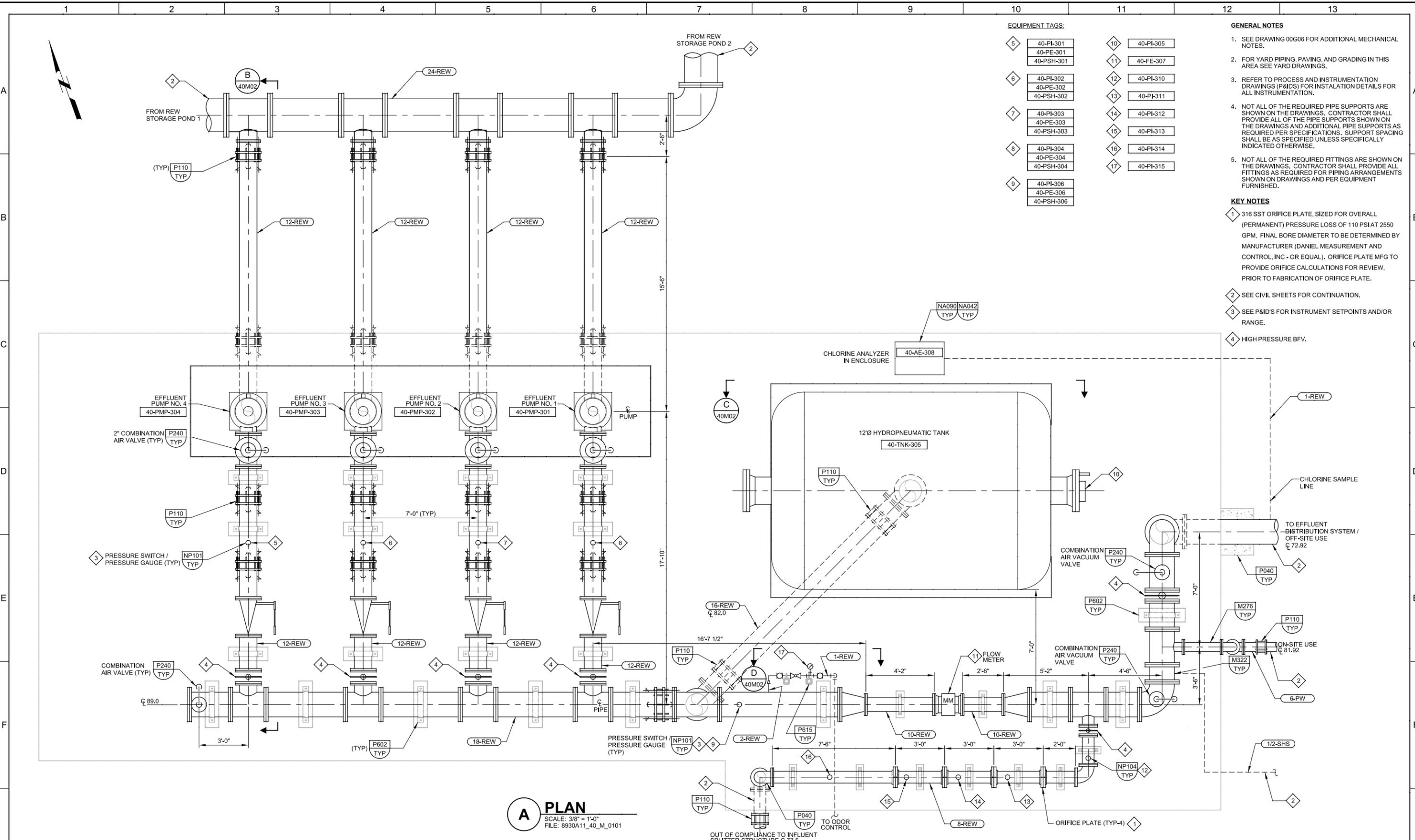
Plot Date: 16-SEP-2013 7:25:32 PM

User: DDunk

Model: Layout1

ColorTable: gshades.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: ddunk



**A PLAN**  
 SCALE: 3/8" = 1'-0"  
 FILE: 8930A11\_40\_M\_0101

EQUIPMENT TAGS:

5	40-PI-301 40-PE-301 40-PSH-301	10	40-PI-305
6	40-PI-302 40-PE-302 40-PSH-302	11	40-FE-307
7	40-PI-303 40-PE-303 40-PSH-303	12	40-PI-310
8	40-PI-304 40-PE-304 40-PSH-304	13	40-PI-311
9	40-PI-306 40-PE-306 40-PSH-306	14	40-PI-312
		15	40-PI-313
		16	40-PI-314
		17	40-PI-315

- GENERAL NOTES**
- SEE DRAWING 00G06 FOR ADDITIONAL MECHANICAL NOTES.
  - FOR YARD PIPING, PAVING, AND GRADING IN THIS AREA SEE YARD DRAWINGS.
  - REFER TO PROCESS AND INSTRUMENTATION DRAWINGS (P&ID) FOR INSTALLATION DETAILS FOR ALL INSTRUMENTATION.
  - NOT ALL OF THE REQUIRED PIPE SUPPORTS ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE ALL OF THE PIPE SUPPORTS SHOWN ON THE DRAWINGS AND ADDITIONAL PIPE SUPPORTS AS REQUIRED PER SPECIFICATIONS. SUPPORT SPACING SHALL BE AS SPECIFIED UNLESS SPECIFICALLY INDICATED OTHERWISE.
  - NOT ALL OF THE REQUIRED FITTINGS ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE ALL FITTINGS AS REQUIRED FOR PIPING ARRANGEMENTS SHOWN ON DRAWINGS AND PER EQUIPMENT FURNISHED.
- KEY NOTES**
- 316 SST ORIFICE PLATE, SIZED FOR OVERALL (PERMANENT) PRESSURE LOSS OF 110 PSIA AT 2550 GPM. FINAL BORE DIAMETER TO BE DETERMINED BY MANUFACTURER (DANIEL MEASUREMENT AND CONTROL, INC - OR EQUAL). ORIFICE PLATE MFG TO PROVIDE ORIFICE CALCULATIONS FOR REVIEW. PRIOR TO FABRICATION OF ORIFICE PLATE.
  - SEE CIVIL SHEETS FOR CONTINUATION.
  - SEE P&ID'S FOR INSTRUMENT SETPOINTS AND/OR RANGE.
  - HIGH PRESSURE BFV.

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED JLK	
DRAWN DBJ	
CHECKED TPY	
DATE SEPT 2013	

**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**EFFLUENT PUMP STATION PLAN**

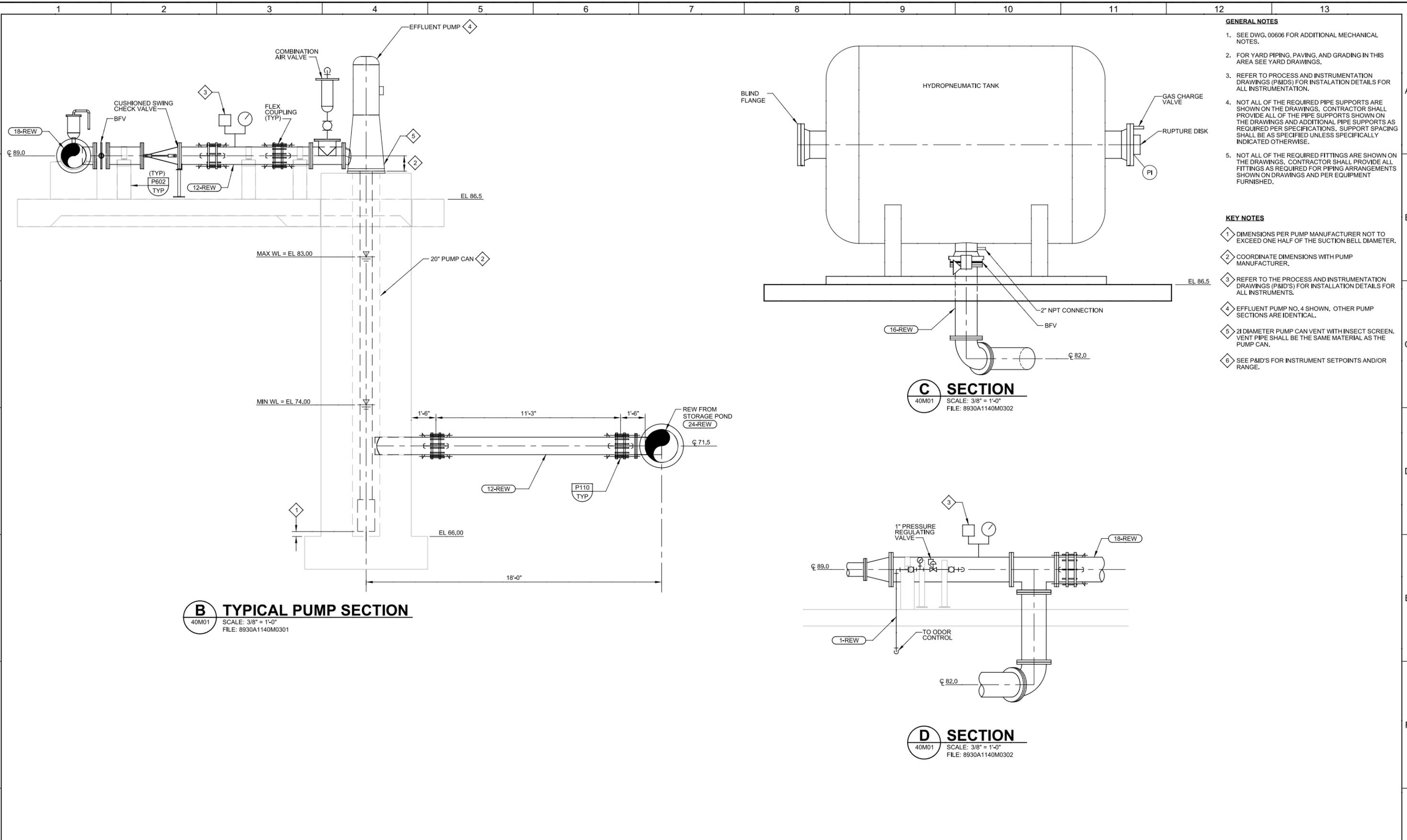
VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 8930A.11
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. <b>40M01</b>
	SHEET NO. OF 549

Plot Date: 16-SEP-2013 7:25:47 PM

User: DDonk

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0805.pen PlotScale: 2:1

LAST SAVED BY: ddonk



- GENERAL NOTES**
- SEE DWG. 00606 FOR ADDITIONAL MECHANICAL NOTES.
  - FOR YARD PIPING, PAVING, AND GRADING IN THIS AREA SEE YARD DRAWINGS.
  - REFER TO PROCESS AND INSTRUMENTATION DRAWINGS (P&IDS) FOR INSTALLATION DETAILS FOR ALL INSTRUMENTATION.
  - NOT ALL OF THE REQUIRED PIPE SUPPORTS ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE ALL OF THE PIPE SUPPORTS SHOWN ON THE DRAWINGS AND ADDITIONAL PIPE SUPPORTS AS REQUIRED PER SPECIFICATIONS. SUPPORT SPACING SHALL BE AS SPECIFIED UNLESS SPECIFICALLY INDICATED OTHERWISE.
  - NOT ALL OF THE REQUIRED FITTINGS ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE ALL FITTINGS AS REQUIRED FOR PIPING ARRANGEMENTS SHOWN ON DRAWINGS AND PER EQUIPMENT FURNISHED.

- KEY NOTES**
- DIMENSIONS PER PUMP MANUFACTURER NOT TO EXCEED ONE HALF OF THE SUCTION BELL DIAMETER.
  - COORDINATE DIMENSIONS WITH PUMP MANUFACTURER.
  - REFER TO THE PROCESS AND INSTRUMENTATION DRAWINGS (P&IDS) FOR INSTALLATION DETAILS FOR ALL INSTRUMENTS.
  - EFFLUENT PUMP NO. 4 SHOWN. OTHER PUMP SECTIONS ARE IDENTICAL.
  - 2" DIAMETER PUMP CAN VENT WITH INSECT SCREEN. VENT PIPE SHALL BE THE SAME MATERIAL AS THE PUMP CAN.
  - SEE P&ID'S FOR INSTRUMENT SETPOINTS AND/OR RANGE.

**B TYPICAL PUMP SECTION**  
 40M01 SCALE: 3/8" = 1'-0"  
 FILE: 8930A1140M0301

**C SECTION**  
 40M01 SCALE: 3/8" = 1'-0"  
 FILE: 8930A1140M0302

**D SECTION**  
 40M01 SCALE: 3/8" = 1'-0"  
 FILE: 8930A1140M0302

REV	DATE	BY	DESCRIPTION

DESIGNED JLK	
DRAWN DBJ	
CHECKED TPY	
DATE SEPT 2013	
DATE 9/16/2013	

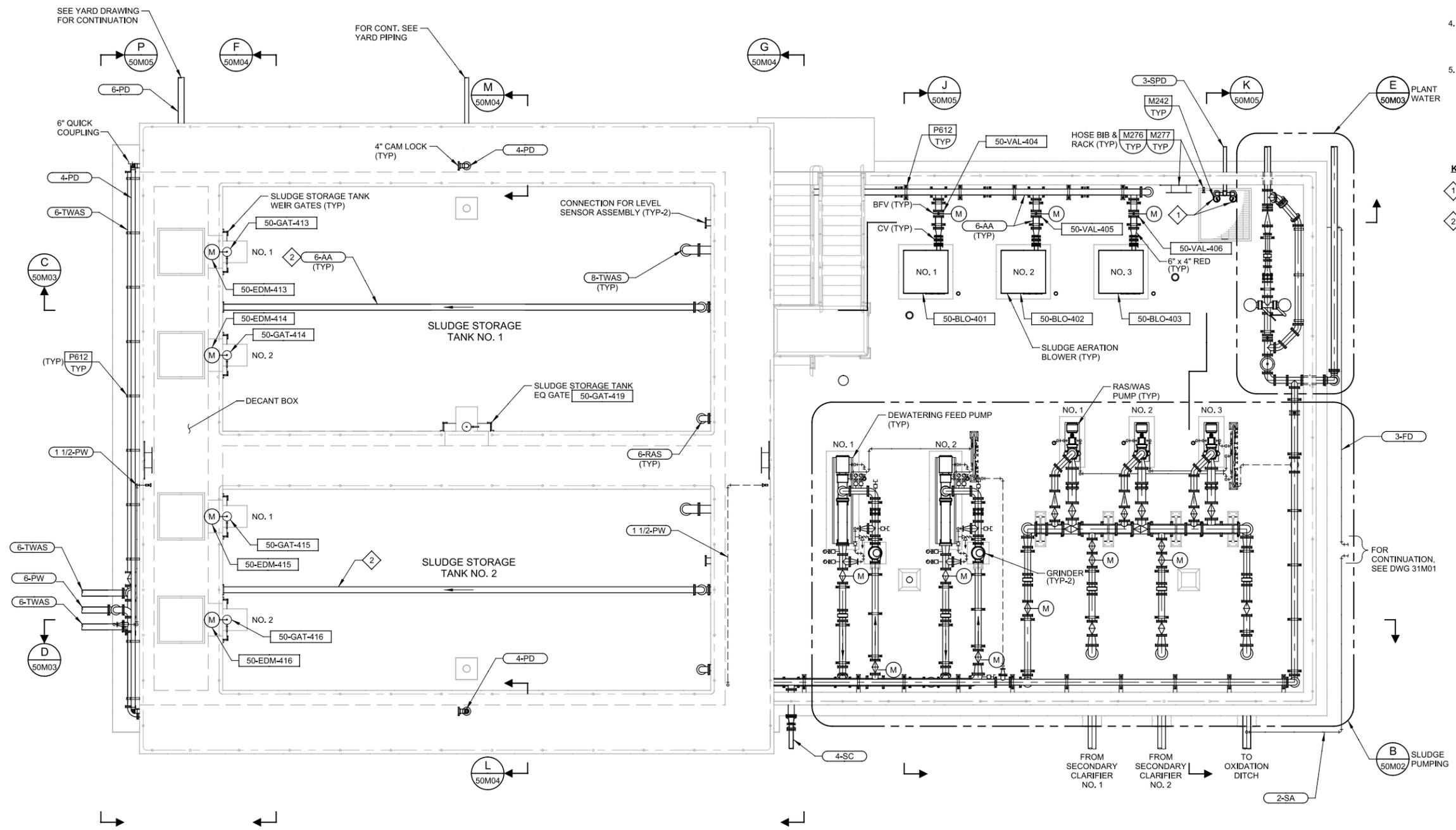


**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**EFFLUENT PUMP STATION SECTIONS**

VERIFY SCALES	JOB NO. 8930A.11
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. <b>40M02</b>
0 1"	SHEET NO. OF 549
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

Pldt Date: 16-SEP-2013 7:26:03 PM  
 User: DDunk  
 Model: Layout1 ColorTable: gshades.ctb DesignScript: Carollo\_Std\_Pen\_v0905.pen PldtScale: 2:1  
 LAST SAVED BY: djacobs



- GENERAL NOTES**
- FOR MECHANICAL SYMBOLS AND NOTES REFER TO DRAWING 00G05 AND 00G06.
  - FOR YARD PIPING CONTINUATION, REFER TO THE YARD PIPING DRAWINGS.
  - REFER TO THE P&ID DRAWINGS FOR INSTRUMENTATION MOUNTING DETAILS.
  - THE GROUND WATER DRAIN PIPING IS NOT SHOWN. REFER TO STRUCTURAL TYPICAL SECTIONS DRAWING 00G11 FOR GROUND WATER DRAIN PIPING FOR THIS STRUCTURE.
  - CONCRETE ENCASE ALL PIPING UNDER CONCRETE SLAB PER TYPICAL DETAIL P040 TO A DISTANCE OUTSIDE OF THE STRUCTURE TO BE DETERMINED BY A 45° ANGLE FROM THE OUTSIDE OF THE FOOTING TO THE PIPE. PROVIDE PIPE CONNECTION PER TYPICAL DETAIL P342 FOR DIP AND AS SHOWN ON THE YARD PIPING DRAWINGS.
- KEY NOTES**
- 1 DUPLEX SUMP PUMPS [50-PMP-419A] AND [50-PMP-419B].
  - 2 AERATION AIR SUPPLY SYSTEMS SHOWN FOR REFERENCE ONLY. PROVIDE AIR SUPPLY AND DIFFUSE PIPING AND ITS ASSOCIATED SUPPORTS PER SPECIFICATION SECTION 11378. CONTRACTOR SHALL PROVIDE ANY REQUIRED MODIFICATIONS AND ROUTING OR PIPING AND SUPPORTS ACCORDING TO THE SUBMITTED AIR SUPPLY SYSTEM MANUFACTURER/SUPPLIER.

**A PLAN**  
 SCALE: 3/16" = 1'-0"  
 FILE: 8930A11\_50\_M\_0101

REV	DATE	BY	DESCRIPTION

DESIGNED: JBG / KAK  
 DRAWN: NRG  
 CHECKED: SGS  
 DATE: SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**SLUDGE STORAGE TANKS PLAN**

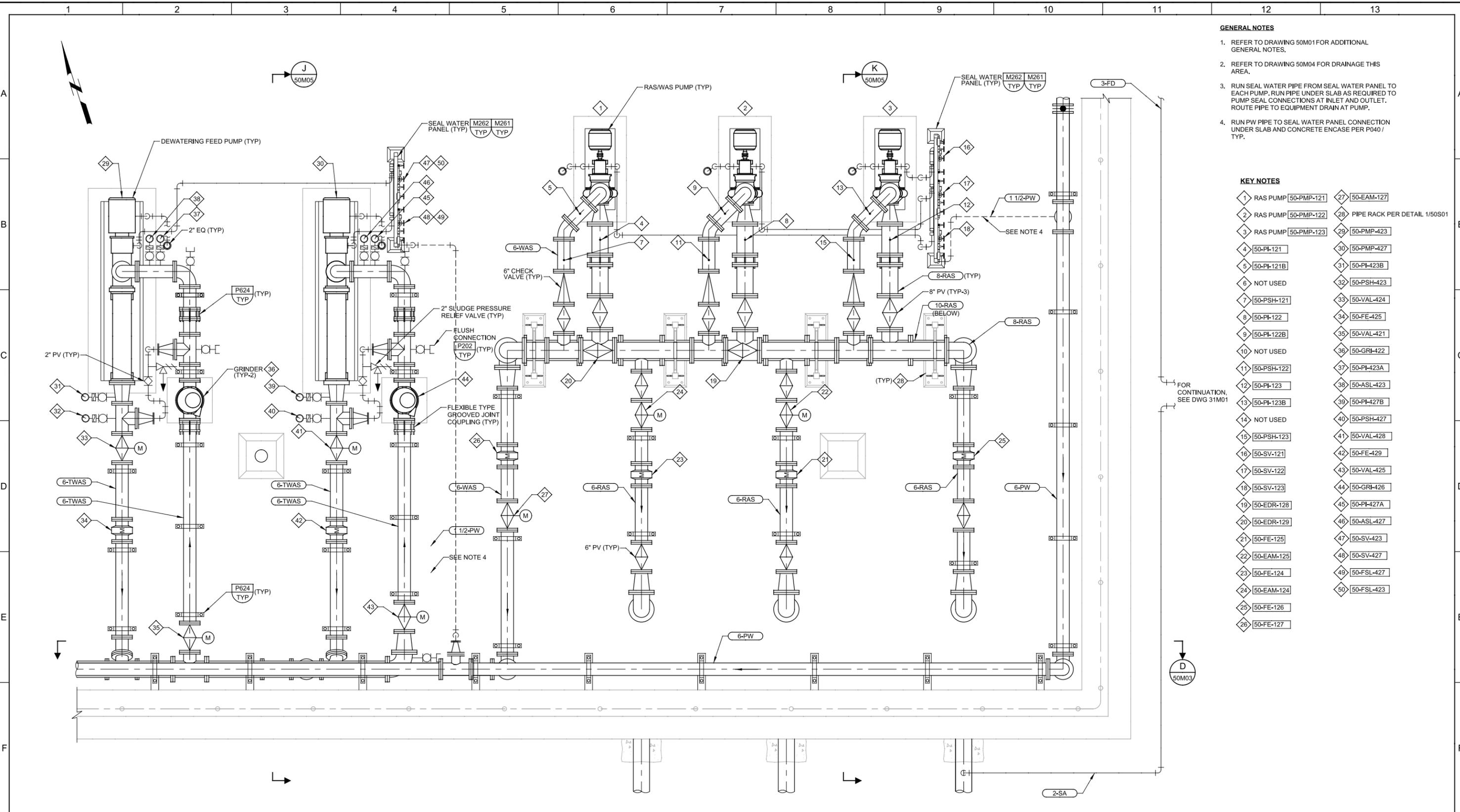
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY  
 JOB NO. 8930A.11  
 DRAWING NO. **50M01**  
 SHEET NO. OF 549

Plot Date: 16-SEP-2013 7:26:16 PM

User: DDunk

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: ddunk



- GENERAL NOTES**
- REFER TO DRAWING 50M01 FOR ADDITIONAL GENERAL NOTES.
  - REFER TO DRAWING 50M04 FOR DRAINAGE THIS AREA.
  - RUN SEAL WATER PIPE FROM SEAL WATER PANEL TO EACH PUMP. RUN PIPE UNDER SLAB AS REQUIRED TO PUMP SEAL CONNECTIONS AT INLET AND OUTLET. ROUTE PIPE TO EQUIPMENT DRAIN AT PUMP.
  - RUN PW PIPE TO SEAL WATER PANEL CONNECTION UNDER SLAB AND CONCRETE ENCASE PER P040 / TYP.

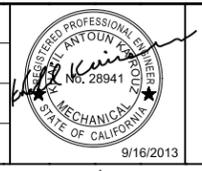
**KEY NOTES**

1	RAS PUMP [50-PMP-121]	27	[50-EAM-127]
2	RAS PUMP [50-PMP-122]	28	PIPE RACK PER DETAIL 1/50S01
3	RAS PUMP [50-PMP-123]	29	[50-PMP-423]
4	[50-PI-121]	30	[50-PMP-427]
5	[50-PI-121B]	31	[50-PI-423B]
6	NOT USED	32	[50-PSH-423]
7	[50-PSH-121]	33	[50-VAL-424]
8	[50-PI-122]	34	[50-FE-425]
9	[50-PI-122B]	35	[50-VAL-421]
10	NOT USED	36	[50-GRI-422]
11	[50-PSH-122]	37	[50-PI-423A]
12	[50-PI-123]	38	[50-ASL-423]
13	[50-PI-123B]	39	[50-PI-427B]
14	NOT USED	40	[50-PSH-427]
15	[50-PSH-123]	41	[50-VAL-428]
16	[50-SV-121]	42	[50-FE-429]
17	[50-SV-122]	43	[50-VAL-425]
18	[50-SV-123]	44	[50-GRI-426]
19	[50-EDR-128]	45	[50-PI-427A]
20	[50-EDR-129]	46	[50-ASL-427]
21	[50-FE-126]	47	[50-SV-423]
22	[50-EAM-125]	48	[50-SV-427]
23	[50-FE-124]	49	[50-FSL-427]
24	[50-EAM-124]	50	[50-FSL-423]
25	[50-FE-126]		
26	[50-FE-127]		

**B PARTIAL PLAN**  
 50M01 SCALE: 1/2" = 1'-0"  
 FILE: 8930A11\_50\_M\_0101

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED  
JBG / KAK  
 DRAWN  
NRG  
 CHECKED  
SGS  
 DATE  
SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**SLUDGE STORAGE TANKS PARTIAL PLAN**

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 8930A.11  
 DRAWING NO. **50M02**  
 SHEET NO. OF 549

Plot Date: 16-SEP-2013 7:26:29 PM

User: DDunk

Model: Layout1 ColorTable: gshades.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

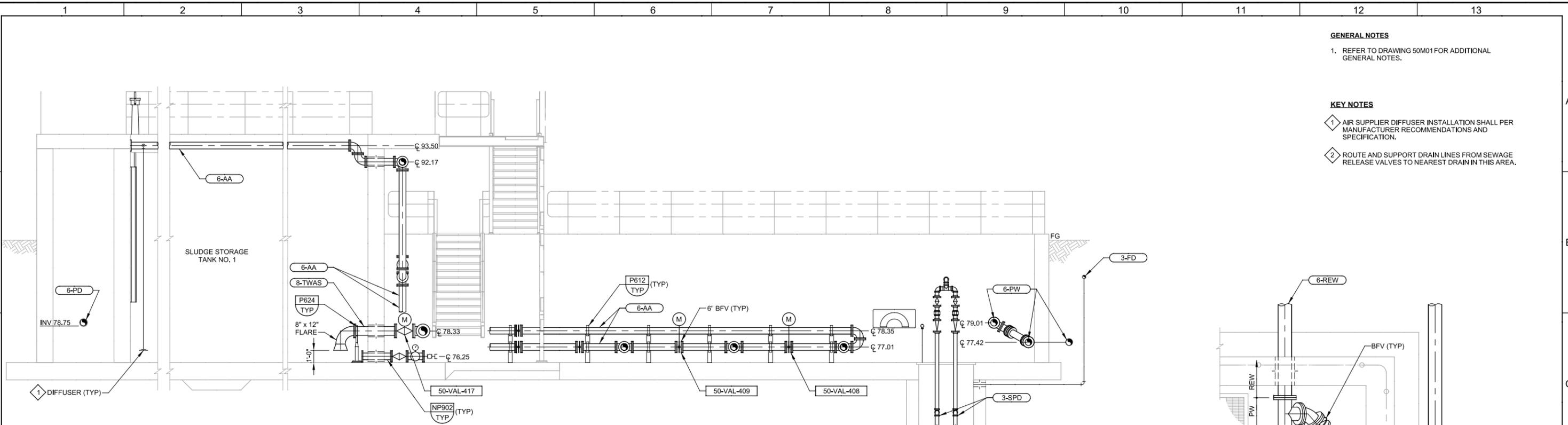
LAST SAVED BY: ddunk

**GENERAL NOTES**

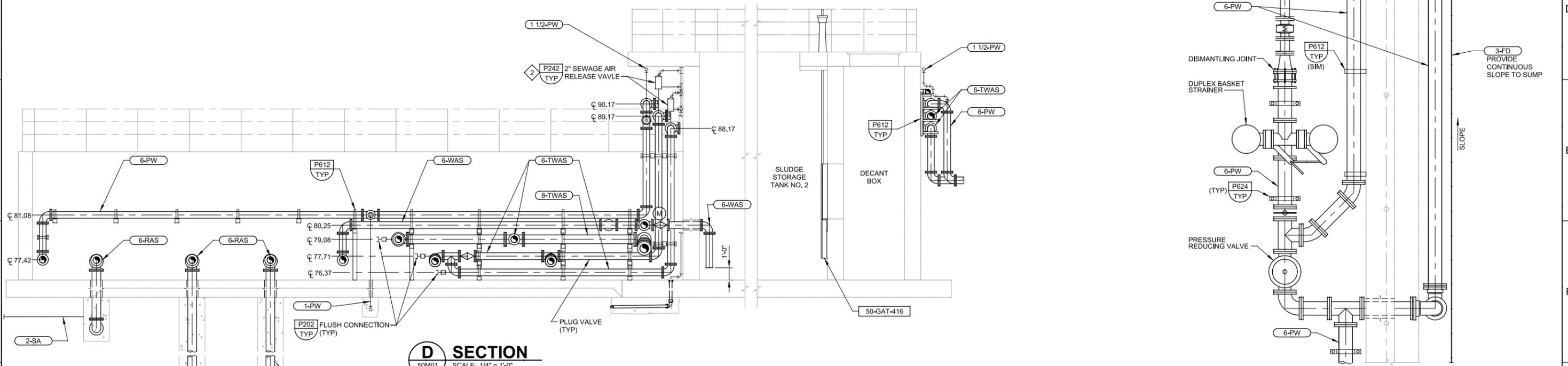
- REFER TO DRAWING 50M01 FOR ADDITIONAL GENERAL NOTES.

**KEY NOTES**

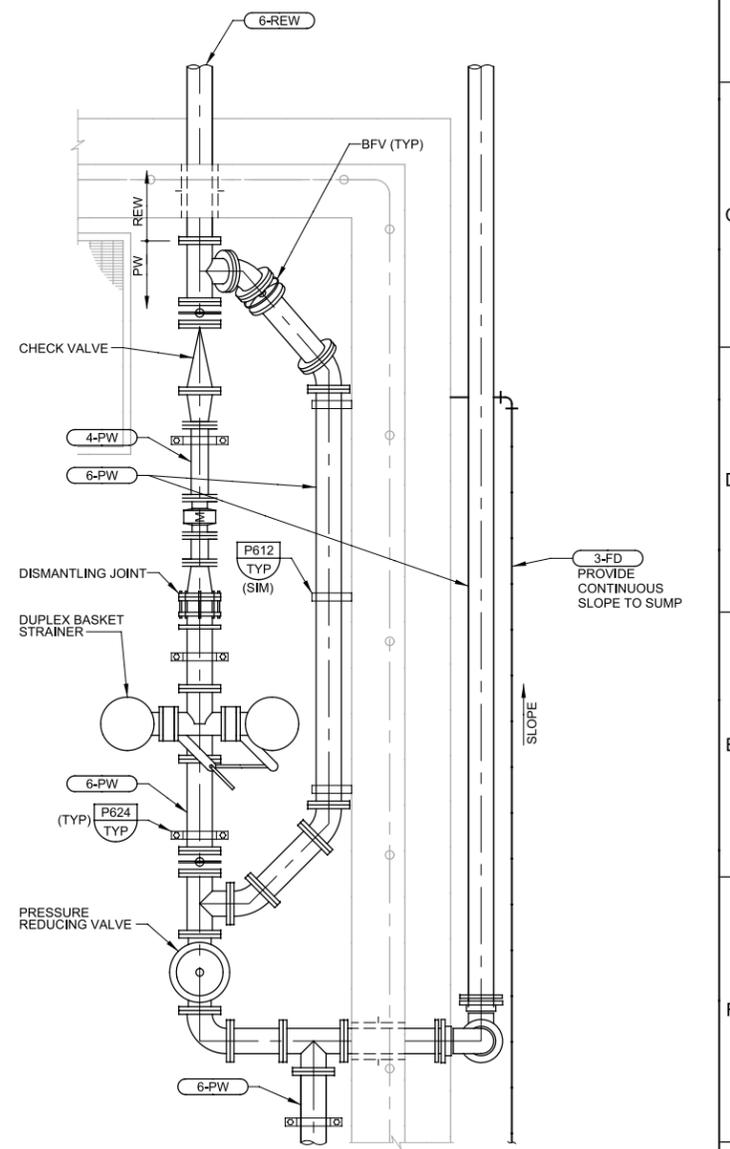
- AIR SUPPLIER DIFFUSER INSTALLATION SHALL PER MANUFACTURER RECOMMENDATIONS AND SPECIFICATION.
- ROUTE AND SUPPORT DRAIN LINES FROM SEWAGE RELEASE VALVES TO NEAREST DRAIN IN THIS AREA.



**C SECTION**  
50M01 SCALE: 1/4" = 1'-0"  
FILE: 8930A11\_50\_M\_0302



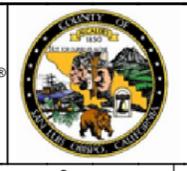
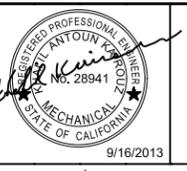
**D SECTION**  
50M01 SCALE: 1/4" = 1'-0"  
50M02 FILE: 8930A11\_50\_M\_0301



**E PARTIAL PLAN**  
50M01 SCALE: 1/2" = 1'-0"  
FILE: 8930A11\_50\_M\_0101

REV	DATE	BY	DESCRIPTION
1			
2			
3			

DESIGNED  
JBG / KAK  
DRAWN  
NRG  
CHECKED  
SGS  
DATE  
SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
LOS OSOS WATER RECYCLING FACILITY PROJECT  
MECHANICAL  
SLUDGE STORAGE TANKS  
PARTIAL PLAN AND SECTIONS

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
8930A.11  
DRAWING NO.  
**50M03**  
SHEET NO.  
OF 549



Plot Date: 16-SEP-2013 7:27:20 PM

User: DDunk

Model: Layout1 ColorTable: gshades.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

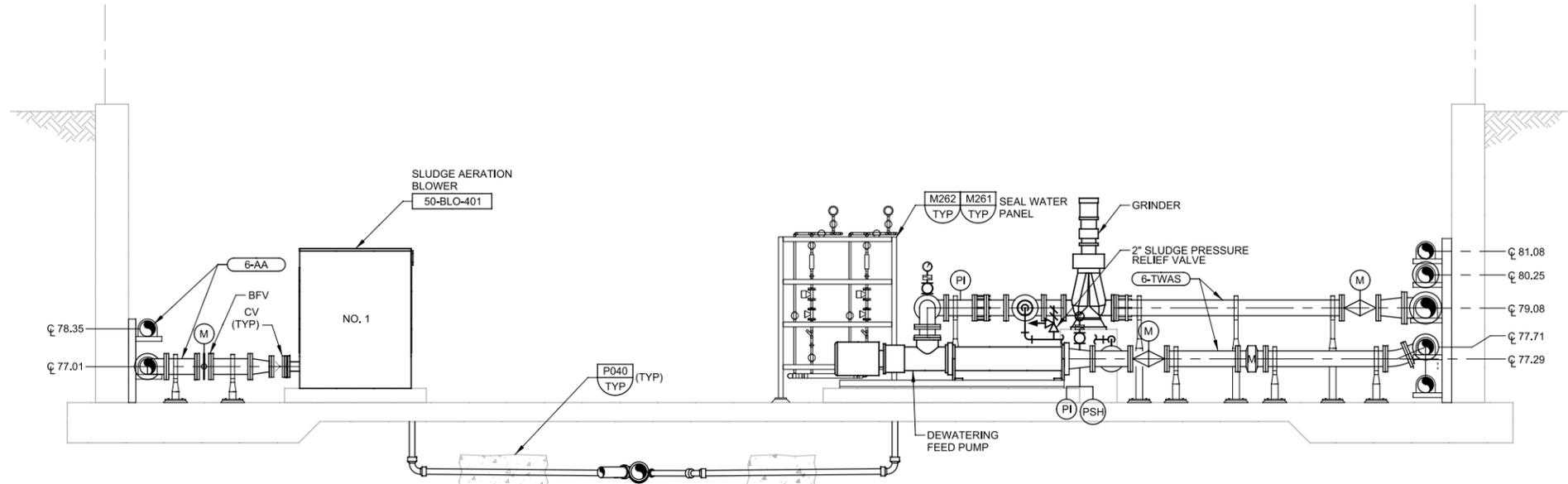
LAST SAVED BY: ddunk

**GENERAL NOTES**

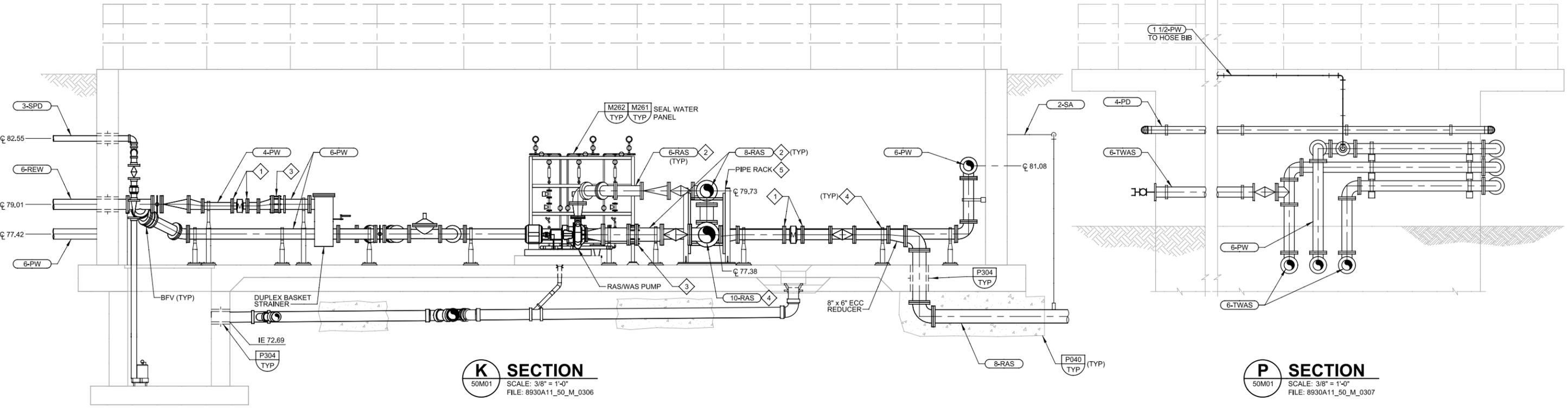
- 1. REFER TO DRAWING 50M01 FOR ADDITIONAL GENERAL NOTES
- 2. ENCASE ALL UNDERSLAB PIPING PER TYPICAL DETAIL P040. EXTEND ENCASMENT 1 BEYOND STRUCTURE FOOTING. AT END OF ENCASMENT PROVIDE PIPE CONNECTION PER TYPICAL DETAIL P342.

**KEY NOTES**

- 1 PROVIDE GROOVED JOINT FLANGE ADAPTER FOR CONNECTION TO THE METER.
- 2 ALL PIPE JOINTS ABOVE GRADE SHALL BE GROOVED JOINT. UNDERGROUND OR UNDERSLAB PIPE JOINTS SHALL BE PER SPECIFICATIONS.
- 3 PROVIDE FLANGES OR GROOVED FLANGE ADAPTERS FOR TYPICAL DETAIL P110.
- 4 SUPPORT PIPE PER TYPICAL DETAIL P602.
- 5 PIPE RACK PER DETAIL 1/50S01.



**J SECTION**  
 50M01 SCALE: 3/8" = 1'-0"  
 FILE: 8930A11\_50\_M\_0305

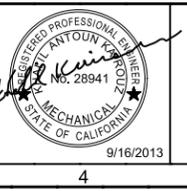


**K SECTION**  
 50M01 SCALE: 3/8" = 1'-0"  
 FILE: 8930A11\_50\_M\_0306

**P SECTION**  
 50M01 SCALE: 3/8" = 1'-0"  
 FILE: 8930A11\_50\_M\_0307

REV	DATE	BY	DESCRIPTION
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2			
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DESIGNED  
JBG / KAK  
 DRAWN  
NRG  
 CHECKED  
SGS  
 DATE  
SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
 SLUDGE STORAGE TANKS SECTIONS

VERIFY SCALES  
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

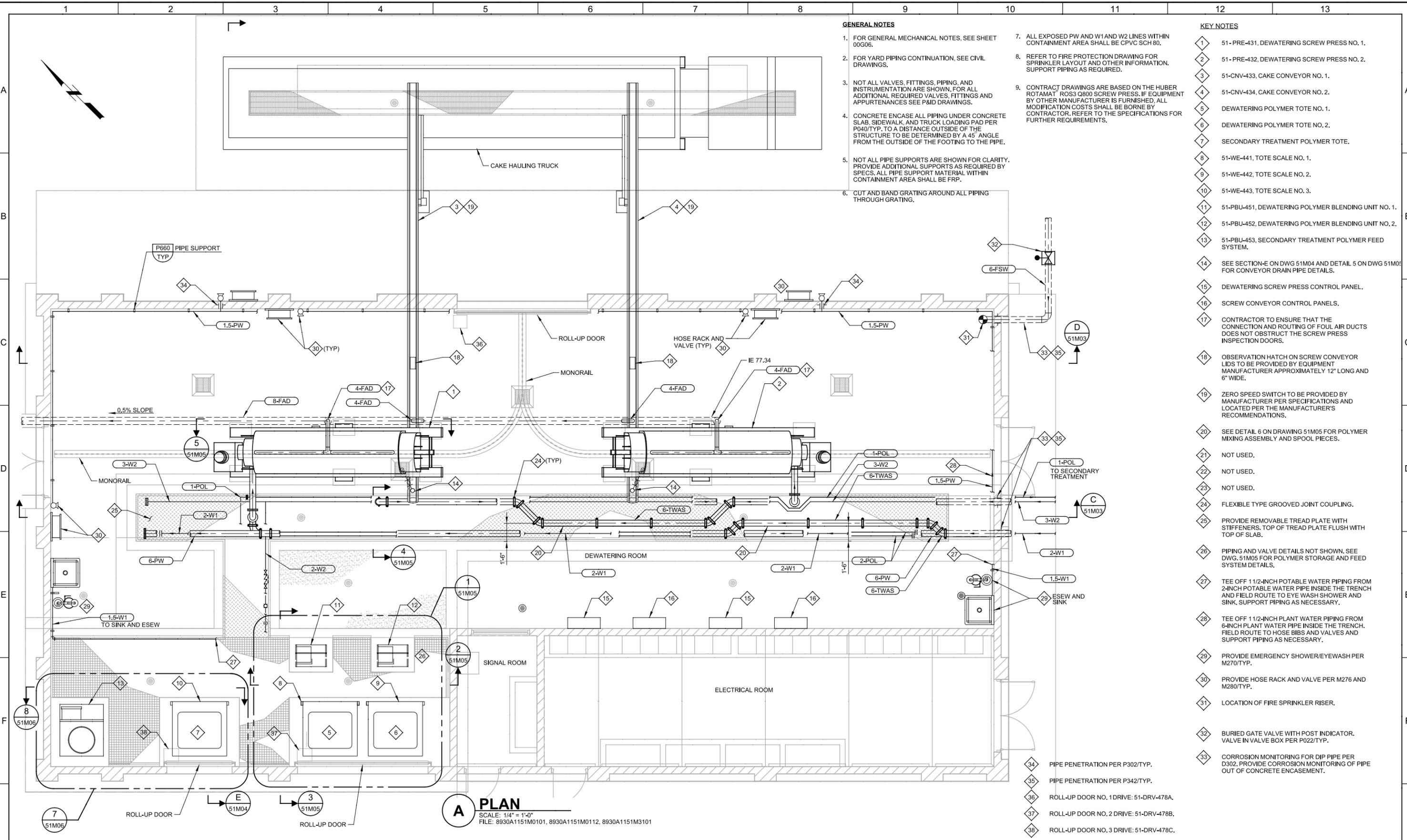
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**50M05**  
 SHEET NO.  
OF 549

Plot Date: 16-SEP-2013 7:27:36 PM

User: DDunk

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LAST SAVED BY: djacob



**A PLAN**  
 SCALE: 1/4" = 1'-0"  
 FILE: 8930A1151M0101, 8930A1151M0112, 8930A1151M3101

**GENERAL NOTES**

- FOR GENERAL MECHANICAL NOTES, SEE SHEET 00G06.
- FOR YARD PIPING CONTINUATION, SEE CIVIL DRAWINGS.
- NOT ALL VALVES, FITTINGS, PIPING, AND INSTRUMENTATION ARE SHOWN. FOR ALL ADDITIONAL REQUIRED VALVES, FITTINGS AND APPURTENANCES SEE P&ID DRAWINGS.
- CONCRETE ENCASE ALL PIPING UNDER CONCRETE SLAB, SIDEWALK, AND TRUCK LOADING PAD PER P040/TYP. TO A DISTANCE OUTSIDE OF THE STRUCTURE TO BE DETERMINED BY A 45° ANGLE FROM THE OUTSIDE OF THE FOOTING TO THE PIPE.
- NOT ALL PIPE SUPPORTS ARE SHOWN FOR CLARITY. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED BY SPECS. ALL PIPE SUPPORT MATERIAL WITHIN CONTAINMENT AREA SHALL BE FRP.
- CUT AND BAND GRATING AROUND ALL PIPING THROUGH GRATING.

**KEY NOTES**

- 51-PRE-431, DEWATERING SCREW PRESS NO. 1.
- 51-PRE-432, DEWATERING SCREW PRESS NO. 2.
- 51-CNV-433, CAKE CONVEYOR NO. 1.
- 51-CNV-434, CAKE CONVEYOR NO. 2.
- DEWATERING POLYMER TOTE NO. 1.
- DEWATERING POLYMER TOTE NO. 2.
- SECONDARY TREATMENT POLYMER TOTE.
- 51-WE-441, TOTE SCALE NO. 1.
- 51-WE-442, TOTE SCALE NO. 2.
- 51-WE-443, TOTE SCALE NO. 3.
- 51-PBU-451, DEWATERING POLYMER BLENDING UNIT NO. 1.
- 51-PBU-452, DEWATERING POLYMER BLENDING UNIT NO. 2.
- 51-PBU-453, SECONDARY TREATMENT POLYMER FEED SYSTEM.
- SEE SECTION-E ON DWG 51M04 AND DETAIL 5 ON DWG 51M05 FOR CONVEYOR DRAIN PIPE DETAILS.
- DEWATERING SCREW PRESS CONTROL PANEL.
- SCREW CONVEYOR CONTROL PANELS.
- CONTRACTOR TO ENSURE THAT THE CONNECTION AND ROUTING OF FOUL AIR DUCTS DOES NOT OBSTRUCT THE SCREW PRESS INSPECTION DOORS.
- OBSERVATION HATCH ON SCREW CONVEYOR LIDS TO BE PROVIDED BY EQUIPMENT MANUFACTURER APPROXIMATELY 12" LONG AND 6" WIDE.
- ZERO SPEED SWITCH TO BE PROVIDED BY MANUFACTURER PER SPECIFICATIONS AND LOCATED PER THE MANUFACTURER'S RECOMMENDATIONS.
- SEE DETAIL 6 ON DRAWING 51M05 FOR POLYMER MIXING ASSEMBLY AND SPOOL PIECES.
- NOT USED.
- NOT USED.
- NOT USED.
- FLEXIBLE TYPE GROOVED JOINT COUPLING.
- PROVIDE REMOVABLE TREAD PLATE WITH STIFFENERS. TOP OF TREAD PLATE FLUSH WITH TOP OF SLAB.
- PIPING AND VALVE DETAILS NOT SHOWN. SEE DWG. 51M05 FOR POLYMER STORAGE AND FEED SYSTEM DETAILS.
- TEE OFF 1 1/2-INCH POTABLE WATER PIPING FROM 2-INCH POTABLE WATER PIPE INSIDE THE TRENCH AND FIELD ROUTE TO EYE WASH SHOWER AND SINK. SUPPORT PIPING AS NECESSARY.
- TEE OFF 1 1/2-INCH PLANT WATER PIPING FROM 6-INCH PLANT WATER PIPE INSIDE THE TRENCH. FIELD ROUTE TO HOSE BIBS AND VALVES AND SUPPORT PIPING AS NECESSARY.
- PROVIDE EMERGENCY SHOWER/EYEWASH PER M270/TYP.
- PROVIDE HOSE RACK AND VALVE PER M276 AND M280/TYP.
- LOCATION OF FIRE SPRINKLER RISER.
- BURIED GATE VALVE WITH POST INDICATOR. VALVE IN VALVE BOX PER P022/TYP.
- CORROSION MONITORING FOR DIP PIPE PER D302. PROVIDE CORROSION MONITORING OF PIPE OUT OF CONCRETE ENCASEMENT.
- PIPE PENETRATION PER P302/TYP.
- PIPE PENETRATION PER P342/TYP.
- ROLL-UP DOOR NO. 1 DRIVE: 51-DRV-478A.
- ROLL-UP DOOR NO. 2 DRIVE: 51-DRV-478B.
- ROLL-UP DOOR NO. 3 DRIVE: 51-DRV-478C.

REV	DATE	BY	DESCRIPTION
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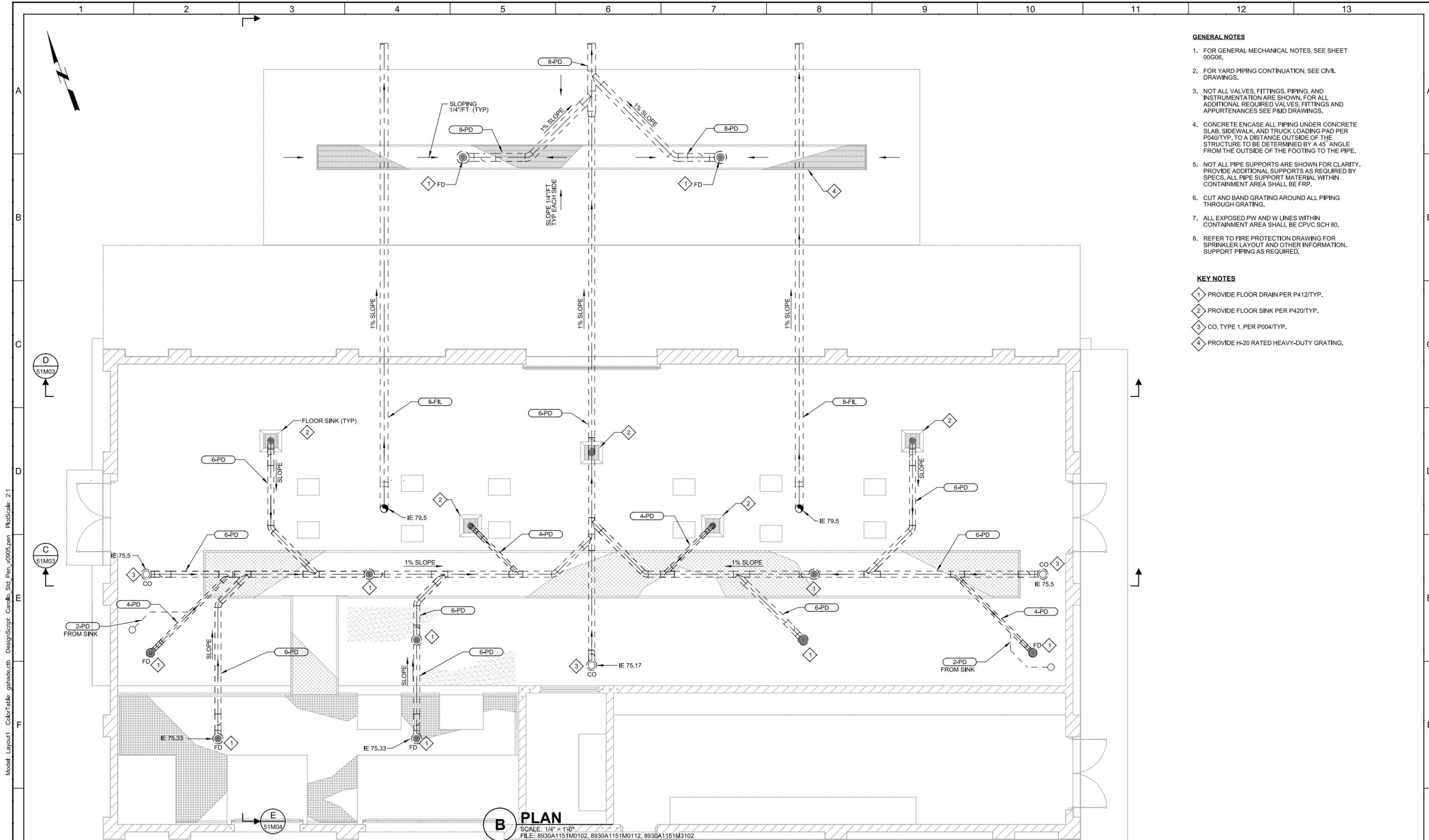
DESIGNED ENK  
 DRAWN DBJ  
 CHECKED SGS  
 DATE SEPT 2013

**SAN LUIS OBISPO COUNTY**

**SAN LUIS OBISPO COUNTY**  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**DEWATERING BUILDING FLOOR PLAN**

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 8930A.11  
 DRAWING NO. 51M01  
 SHEET NO. OF 549



- GENERAL NOTES**
- FOR GENERAL MECHANICAL NOTES, SEE SHEET 00G06.
  - FOR YARD PIPING CONTINUATION, SEE CIVIL DRAWINGS.
  - NOT ALL VALVES, FITTINGS, PIPING, AND INSTRUMENTATION ARE SHOWN, FOR ALL ADDITIONAL REQUIRED VALVES, FITTINGS AND APPURTENANCES SEE P&ID DRAWINGS.
  - CONCRETE ENCASE ALL PIPING UNDER CONCRETE SLAB, SIDEWALK, AND TRUCK LOADING PAD PER P040/TYP. TO A DISTANCE OUTSIDE OF THE STRUCTURE TO BE DETERMINED BY A 45° ANGLE FROM THE OUTSIDE OF THE FOOTING TO THE PIPE.
  - NOT ALL PIPE SUPPORTS ARE SHOWN FOR CLARITY. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED BY SPECS. ALL PIPE SUPPORT MATERIAL WITHIN CONTAINMENT AREA SHALL BE FRP.
  - CUT AND BAND GRATING AROUND ALL PIPING THROUGH GRATING.
  - ALL EXPOSED PW AND W LINES WITHIN CONTAINMENT AREA SHALL BE CPVC SCH 80.
  - REFER TO FIRE PROTECTION DRAWING FOR SPRINKLER LAYOUT AND OTHER INFORMATION. SUPPORT PIPING AS REQUIRED.

- KEY NOTES**
- PROVIDE FLOOR DRAIN PER P412/TYP.
  - PROVIDE FLOOR SINK PER P420/TYP.
  - CO, TYPE 1, PER P004/TYP.
  - PROVIDE H-20 RATED HEAVY-DUTY GRATING.

**B PLAN**  
 SCALE: 1/4" = 1'-0"  
 FILE: 8930A1151M0102, 8930A1151M0112, 8930A1151M3102

REV	DATE	BY	DESCRIPTION
1			
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DESIGNED	ENK
DRAWN	DBJ
CHECKED	SGS
DATE	SEPT 2013



**SAN LUIS OBISPO COUNTY**

**SAN LUIS OBISPO COUNTY**  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**DEWATERING BUILDING DRAINAGE PLAN**

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 8930A.11  
 DRAWING NO. **51M02**  
 SHEET NO. OF 549

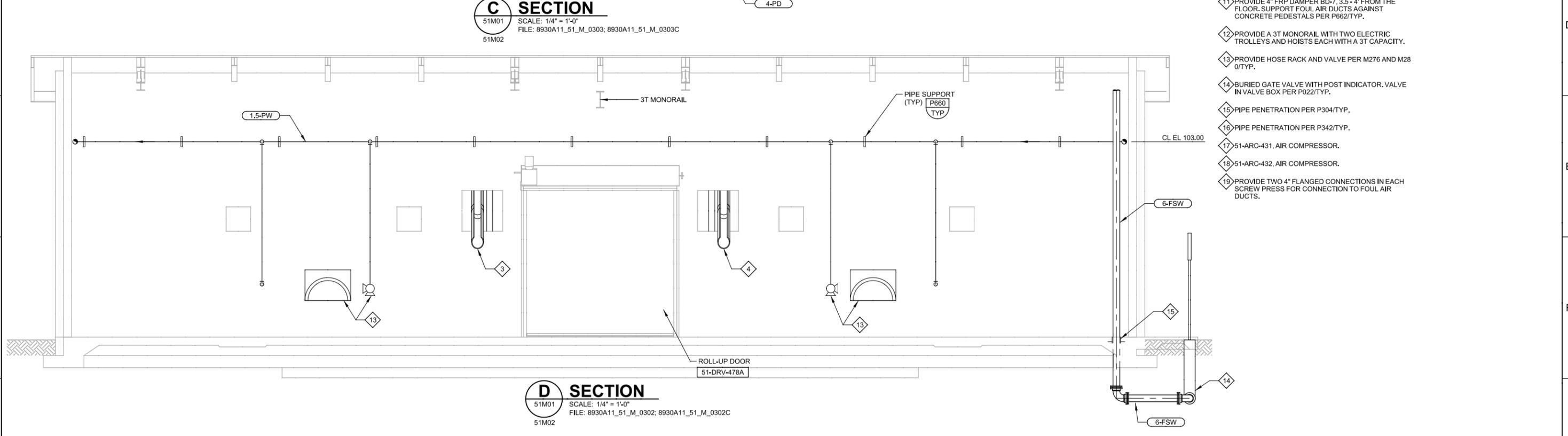
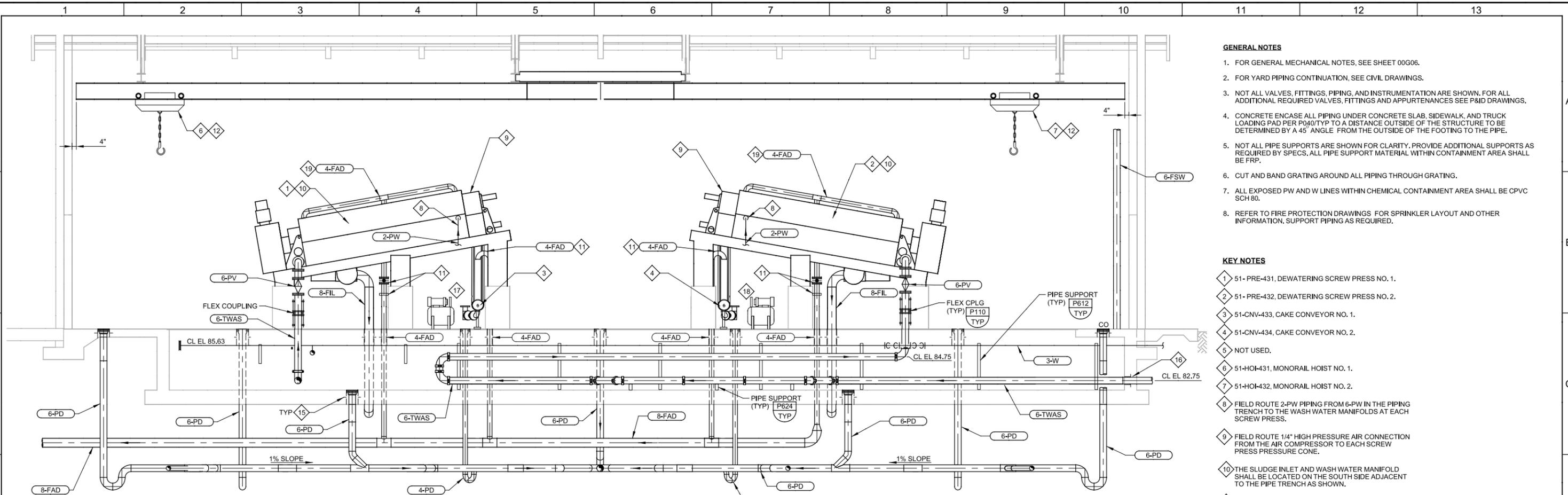
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User: DDonk

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LAST SAVED BY: djacobs

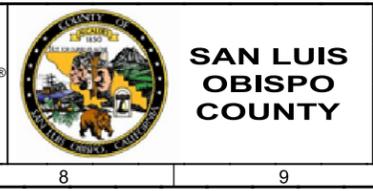
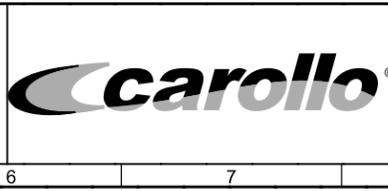


- GENERAL NOTES**
- FOR GENERAL MECHANICAL NOTES, SEE SHEET 00G06.
  - FOR YARD PIPING CONTINUATION, SEE CIVIL DRAWINGS.
  - NOT ALL VALVES, FITTINGS, PIPING, AND INSTRUMENTATION ARE SHOWN. FOR ALL ADDITIONAL REQUIRED VALVES, FITTINGS AND APPURTENANCES SEE P&ID DRAWINGS.
  - CONCRETE ENCASE ALL PIPING UNDER CONCRETE SLAB, SIDEWALK, AND TRUCK LOADING PAD PER P040/TYP TO A DISTANCE OUTSIDE OF THE STRUCTURE TO BE DETERMINED BY A 45° ANGLE FROM THE OUTSIDE OF THE FOOTING TO THE PIPE.
  - NOT ALL PIPE SUPPORTS ARE SHOWN FOR CLARITY. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED BY SPECS. ALL PIPE SUPPORT MATERIAL WITHIN CONTAINMENT AREA SHALL BE FRP.
  - CUT AND BAND GRATING AROUND ALL PIPING THROUGH GRATING.
  - ALL EXPOSED PW AND W LINES WITHIN CHEMICAL CONTAINMENT AREA SHALL BE CPVC SCH 80.
  - REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER LAYOUT AND OTHER INFORMATION. SUPPORT PIPING AS REQUIRED.

- KEY NOTES**
- 51-PRE-431, DEWATERING SCREW PRESS NO. 1.
  - 51-PRE-432, DEWATERING SCREW PRESS NO. 2.
  - 51-CNV-433, CAKE CONVEYOR NO. 1.
  - 51-CNV-434, CAKE CONVEYOR NO. 2.
  - NOT USED.
  - 51-HOI-431, MONORAIL HOIST NO. 1.
  - 51-HOI-432, MONORAIL HOIST NO. 2.
  - FIELD ROUTE 2-PW PIPING FROM 6-PW IN THE PIPING TRENCH TO THE WASH WATER MANIFOLDS AT EACH SCREW PRESS.
  - FIELD ROUTE 1/4" HIGH PRESSURE AIR CONNECTION FROM THE AIR COMPRESSOR TO EACH SCREW PRESS PRESSURE CONE.
  - THE SLUDGE INLET AND WASH WATER MANIFOLD SHALL BE LOCATED ON THE SOUTH SIDE ADJACENT TO THE PIPE TRENCH AS SHOWN.
  - PROVIDE 4" FRP DAMPER BD-7, 3.5 - 4' FROM THE FLOOR. SUPPORT FOUL AIR DUCTS AGAINST CONCRETE PEDESTALS PER P662/TYP.
  - PROVIDE A 3T MONORAIL WITH TWO ELECTRIC TROLLEYS AND HOISTS EACH WITH A 3T CAPACITY.
  - PROVIDE HOSE RACK AND VALVE PER M276 AND M280/TYP.
  - BURIED GATE VALVE WITH POST INDICATOR. VALVE IN VALVE BOX PER P022/TYP.
  - PIPE PENETRATION PER P304/TYP.
  - PIPE PENETRATION PER P342/TYP.
  - 51-ARC-431, AIR COMPRESSOR.
  - 51-ARC-432, AIR COMPRESSOR.
  - PROVIDE TWO 4" FLANGED CONNECTIONS IN EACH SCREW PRESS FOR CONNECTION TO FOUL AIR DUCTS.

REV	DATE	BY	DESCRIPTION
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DESIGNED ENK	
DRAWN DBJ	
CHECKED SGS	
DATE SEPT 2013	



SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
 DEWATERING BUILDING SECTIONS

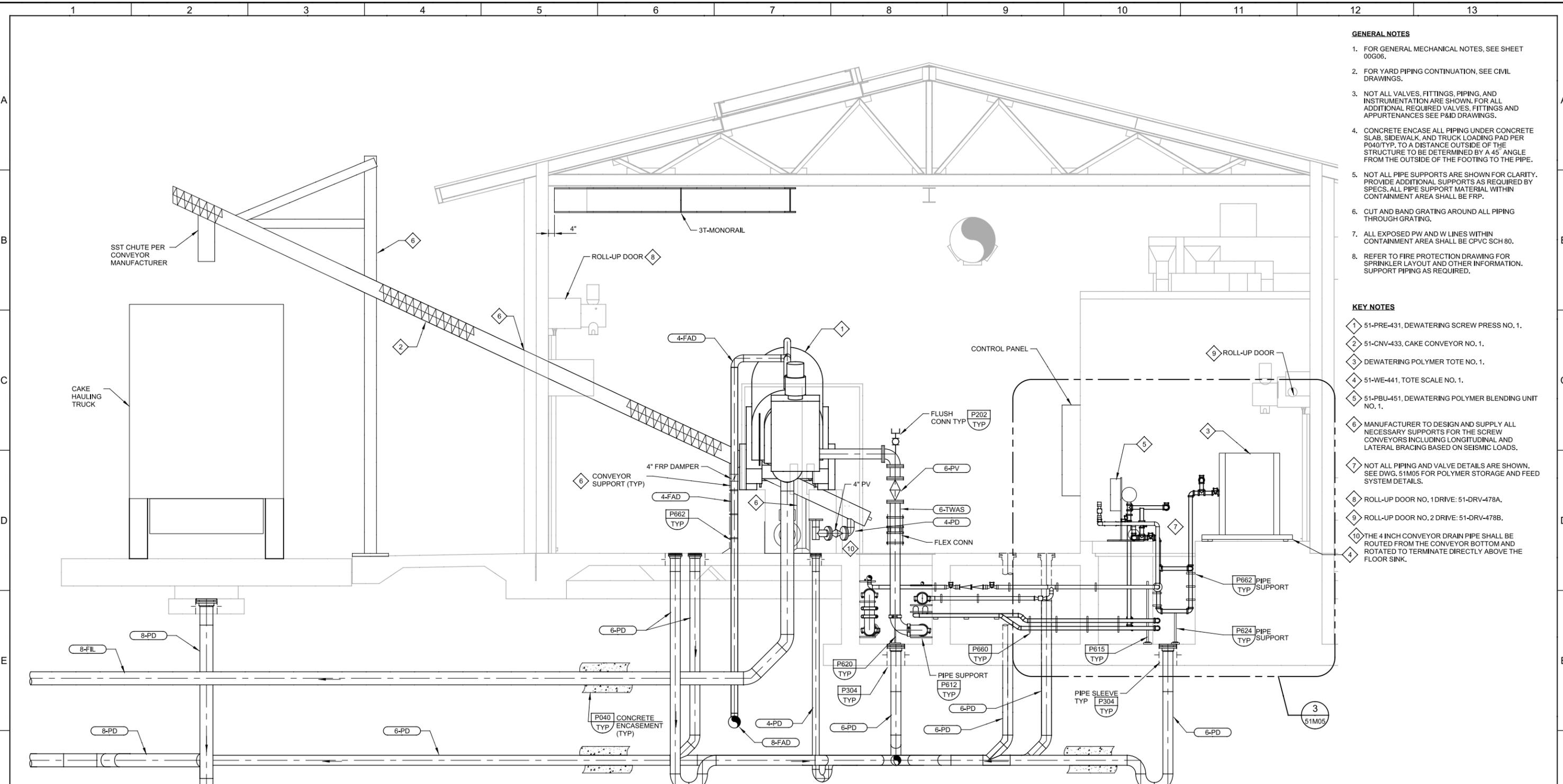
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LAST SAVED BY: djacob



**E SECTION**  
 51M01 SCALE: 3/8" = 1'-0"  
 51M02 FILE: 8930A1151M0301, 8930A1151M0311, 8930A1151M3301

- GENERAL NOTES**
- FOR GENERAL MECHANICAL NOTES, SEE SHEET 00G06.
  - FOR YARD PIPING CONTINUATION, SEE CIVIL DRAWINGS.
  - NOT ALL VALVES, FITTINGS, PIPING, AND INSTRUMENTATION ARE SHOWN. FOR ALL ADDITIONAL REQUIRED VALVES, FITTINGS AND APPURTENANCES SEE P&ID DRAWINGS.
  - CONCRETE ENCASE ALL PIPING UNDER CONCRETE SLAB, SIDEWALK, AND TRUCK LOADING PAD PER P040/TYP. TO A DISTANCE OUTSIDE OF THE STRUCTURE TO BE DETERMINED BY A 45° ANGLE FROM THE OUTSIDE OF THE FOOTING TO THE PIPE.
  - NOT ALL PIPE SUPPORTS ARE SHOWN FOR CLARITY. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED BY SPECS. ALL PIPE SUPPORT MATERIAL WITHIN CONTAINMENT AREA SHALL BE FRP.
  - CUT AND BAND GRATING AROUND ALL PIPING THROUGH GRATING.
  - ALL EXPOSED PW AND W LINES WITHIN CONTAINMENT AREA SHALL BE CPVC SCH 80.
  - REFER TO FIRE PROTECTION DRAWING FOR SPRINKLER LAYOUT AND OTHER INFORMATION. SUPPORT PIPING AS REQUIRED.

- KEY NOTES**
- 51-PRE-431, DEWATERING SCREW PRESS NO. 1.
  - 51-CNV-433, CAKE CONVEYOR NO. 1.
  - DEWATERING POLYMER TOTE NO. 1.
  - 51-WE-441, TOTE SCALE NO. 1.
  - 51-PBU-451, DEWATERING POLYMER BLENDING UNIT NO. 1.
  - MANUFACTURER TO DESIGN AND SUPPLY ALL NECESSARY SUPPORTS FOR THE SCREW CONVEYORS INCLUDING LONGITUDINAL AND LATERAL BRACING BASED ON SEISMIC LOADS.
  - NOT ALL PIPING AND VALVE DETAILS ARE SHOWN. SEE DWG. 51M05 FOR POLYMER STORAGE AND FEED SYSTEM DETAILS.
  - ROLL-UP DOOR NO. 1 DRIVE: 51-DRV-478A.
  - ROLL-UP DOOR NO. 2 DRIVE: 51-DRV-478B.
  - THE 4 INCH CONVEYOR DRAIN PIPE SHALL BE ROUTED FROM THE CONVEYOR BOTTOM AND ROTATED TO TERMINATE DIRECTLY ABOVE THE FLOOR SINK.

REV	DATE	BY	DESCRIPTION
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DESIGNED ENK	
DRAWN DBJ	
CHECKED SGS	
DATE SEPT 2013	



SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
 DEWATERING BUILDING SECTION

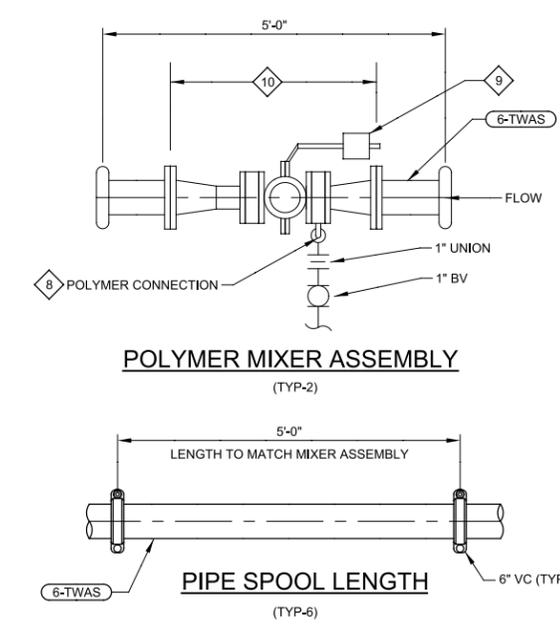
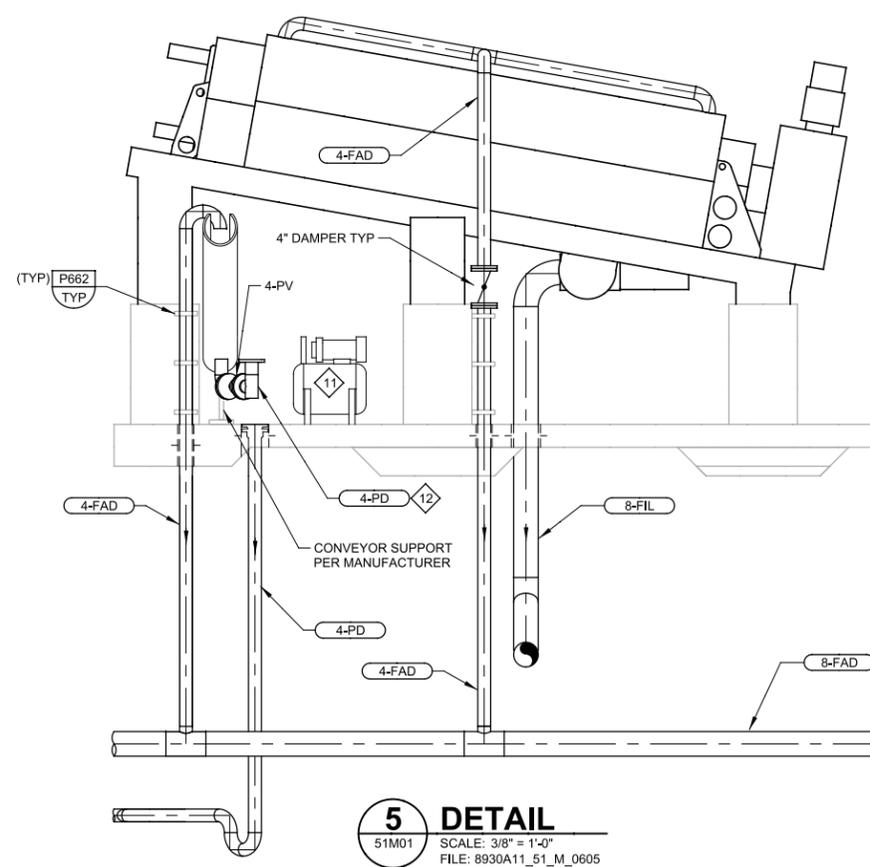
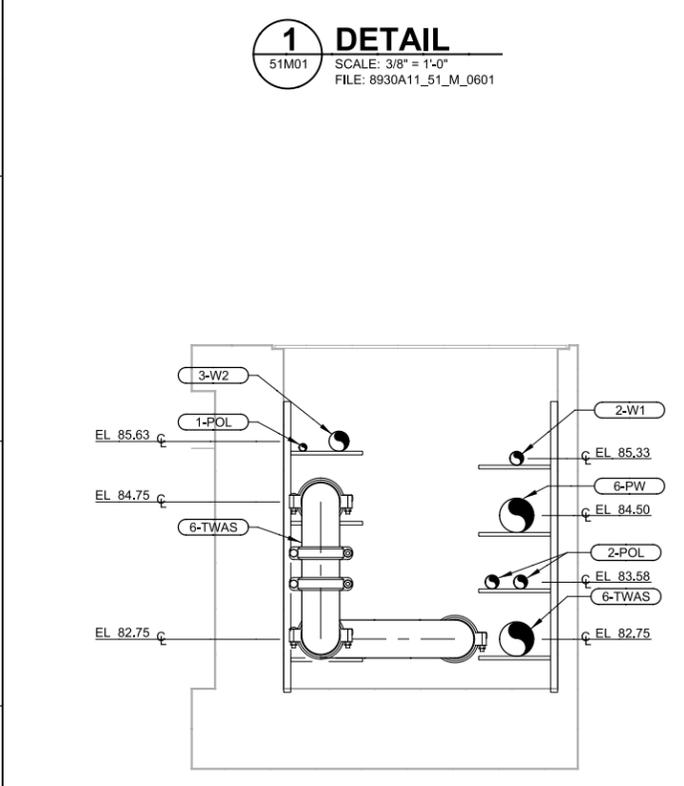
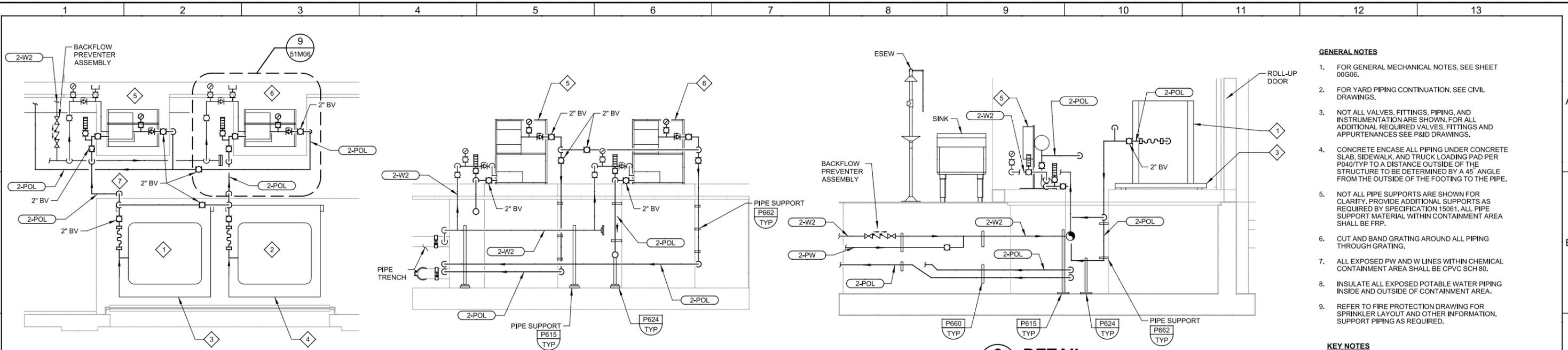
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	SHEET NO. OF 549

Plot Date: 16-SEP-2013 7:28:40 PM

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LAST SAVED BY: djacob

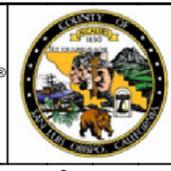


- GENERAL NOTES**
- FOR GENERAL MECHANICAL NOTES, SEE SHEET 00G06.
  - FOR YARD PIPING CONTINUATION, SEE CIVIL DRAWINGS.
  - NOT ALL VALVES, FITTINGS, PIPING, AND INSTRUMENTATION ARE SHOWN. FOR ALL ADDITIONAL REQUIRED VALVES, FITTINGS AND APPURTENANCES SEE P&ID DRAWINGS.
  - CONCRETE ENCASE ALL PIPING UNDER CONCRETE SLAB, SIDEWALK, AND TRUCK LOADING PAD PER P040/TYP TO A DISTANCE OUTSIDE OF THE STRUCTURE TO BE DETERMINED BY A 45° ANGLE FROM THE OUTSIDE OF THE FOOTING TO THE PIPE.
  - NOT ALL PIPE SUPPORTS ARE SHOWN FOR CLARITY. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED BY SPECIFICATION 15061. ALL PIPE SUPPORT MATERIAL WITHIN CONTAINMENT AREA SHALL BE FRP.
  - CUT AND BAND GRATING AROUND ALL PIPING THROUGH GRATING.
  - ALL EXPOSED PW AND W LINES WITHIN CHEMICAL CONTAINMENT AREA SHALL BE CPVC SCH 80.
  - INSULATE ALL EXPOSED POTABLE WATER PIPING INSIDE AND OUTSIDE OF CONTAINMENT AREA.
  - REFER TO FIRE PROTECTION DRAWING FOR SPRINKLER LAYOUT AND OTHER INFORMATION. SUPPORT PIPING AS REQUIRED.

- KEY NOTES**
- DEWATERING POLYMER TOTE NO. 1.
  - DEWATERING POLYMER TOTE NO. 2.
  - 51-WE-441, TOTE SCALE NO. 1.
  - 51-WE-442, TOTE SCALE NO. 2.
  - 51-PBU-451, DEWATERING POLYMER BLENDING UNIT NO. 1.
  - 51-PBU-452, DEWATERING POLYMER BLENDING UNIT NO. 2.
  - PROVIDE UNION AT ALL INLET AND OUTLET PIPING OF POLYMER BLENDER UNITS. PROVIDE UNIONS EVERY 10' (MAXIMUM) ON POLYMER PIPING. OUTWARD FACING PIPES
  - THE CONTRACTOR SHALL PROVIDE POLYMER PIPING, VALVES, FITTINGS AND SUPPORTS UP TO THE POLYMER INJECTION RING DURING TESTING AND AFTER A FINAL MIXER LOCATION HAS BEEN SELECTED.
  - ADJUSTABLE COUNTERWEIGHT MUST BE FREE TO SWING 180°.
  - PROVIDED BY SCREW PRESS MANUFACTURER.
  - 51-ARC-431, AIR COMPRESSOR.
  - THE 4 INCH CONVEYOR DRAIN PIPE SHALL BE ROUTED FROM THE CONVEYOR BOTTOM AND ROTATED TO TERMINATE DIRECTLY ABOVE THE FLOOR SINK.

REV	DATE	BY	DESCRIPTION

DESIGNED	ENK
DRAWN	DBJ
CHECKED	SGS
DATE	SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
LOS OSOS WATER RECYCLING FACILITY PROJECT  
MECHANICAL  
DEWATERING BUILDING DETAILS

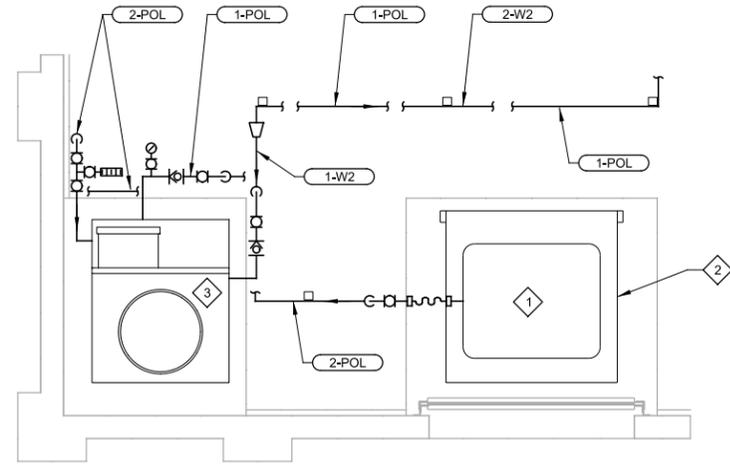
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BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 51M05
0 1"	SHEET NO. OF 549
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

Plot Date: 16-SEP-2013 7:28:59 PM

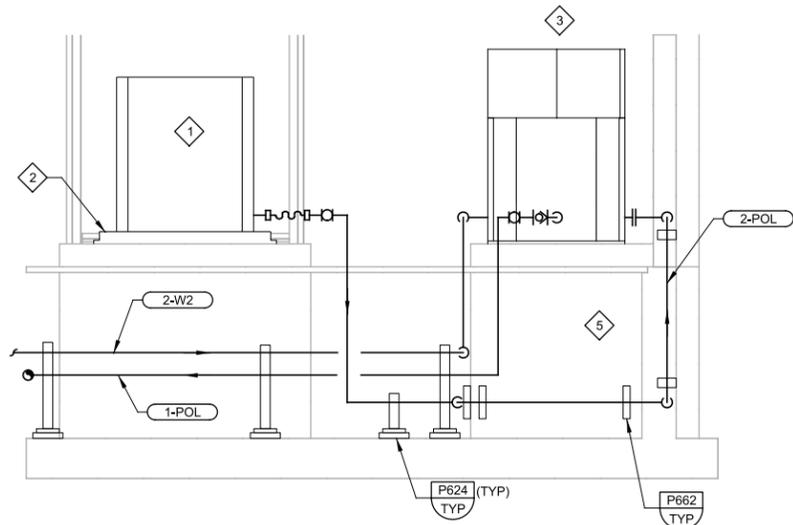
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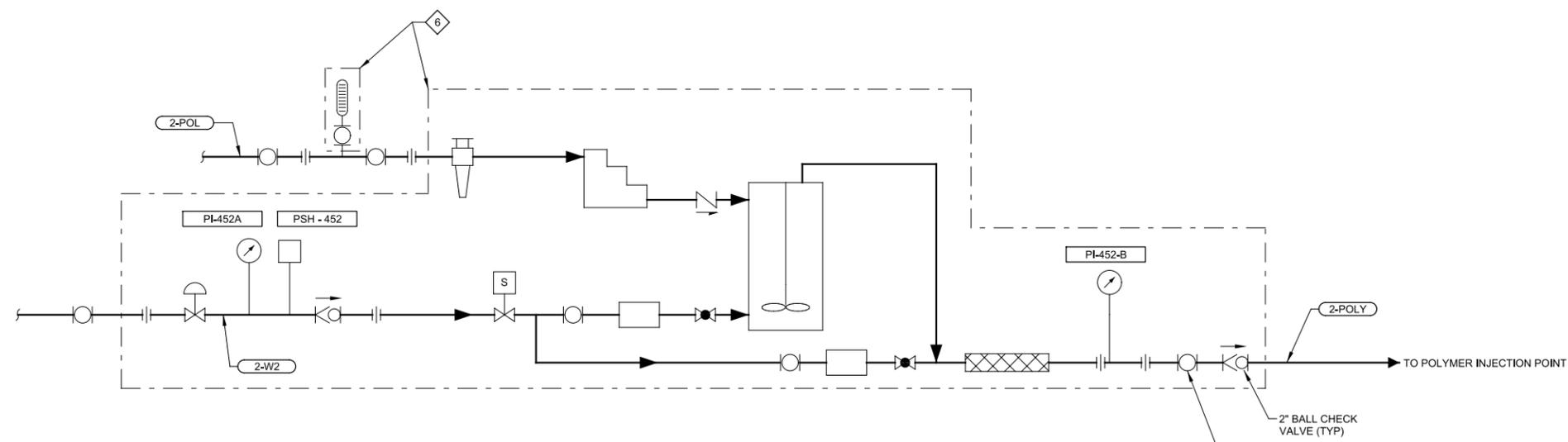
**7 DETAIL**  
 51M01 SCALE: 3/8" = 1'-0"  
 FILE: 8930A11-51-M-0607



**8 DETAIL**  
 51M01 SCALE: 3/8" = 1'-0"  
 FILE: 8930A11-51-M-0607

- GENERAL NOTES**
1. FOR GENERAL MECHANICAL NOTES, SEE SHEET 00G06.
  2. FOR YARD PIPING CONTINUATION, SEE CIVIL DRAWINGS.
  3. NOT ALL VALVES, FITTINGS, PIPING, AND INSTRUMENTATION ARE SHOWN. FOR ALL ADDITIONAL REQUIRED VALVES, FITTINGS AND APPURTENANCES SEE P&ID DRAWINGS.
  4. CONCRETE ENCASE ALL PIPING UNDER CONCRETE SLAB, SIDEWALK, AND TRUCK LOADING PAD PER P040/TYP TO A DISTANCE OUTSIDE OF THE STRUCTURE TO BE DETERMINED BY A 45° ANGLE FROM THE OUTSIDE OF THE FOOTING TO THE PIPE.
  5. NOT ALL PIPE SUPPORTS ARE SHOWN FOR CLARITY. PROVIDE ADDITIONAL SUPPORTS AS REQUIRED BY SPECIFICATION 15061. ALL PIPE SUPPORT MATERIAL WITHIN CONTAINMENT AREA SHALL BE FRP.
  6. CUT AND BAND GRATING AROUND ALL PIPING THROUGH GRATING.

- KEY NOTES**
- 1 SECONDARY TREATMENT POLYMER TOTE
  - 2 51-WE-443, TOTE SCALE
  - 3 51-PBU-453, SECONDARY TREATMENT POLYMER FEED SYSTEM
  - 4 PROVIDE UNION AT ALL INLET AND OUTLET PIPING OF POLYMER BLENDER UNITS, PROVIDE UNIONS EVERY 10' (MAXIMUM) ON POLYMER PIPING.
  - 5 VALVES AND ROTAMETERS NOT SHOWN FOR CLARITY.
  - 6 TO BE PROVIDED BY POLYMER BLENDER MANUFACTURER.



**9 POLYMER BLENDING SCHEMATIC**  
 51M05 SCALE: 3/8" = 1'-0"  
 FILE: 8930A11-51-M-0607

REV	DATE	BY	DESCRIPTION

DESIGNED HGK	
DRAWN DBJ	
CHECKED SGS	
DATE SEPT 2013	



SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
 DEWATERING BUILDING  
 DETAILS

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

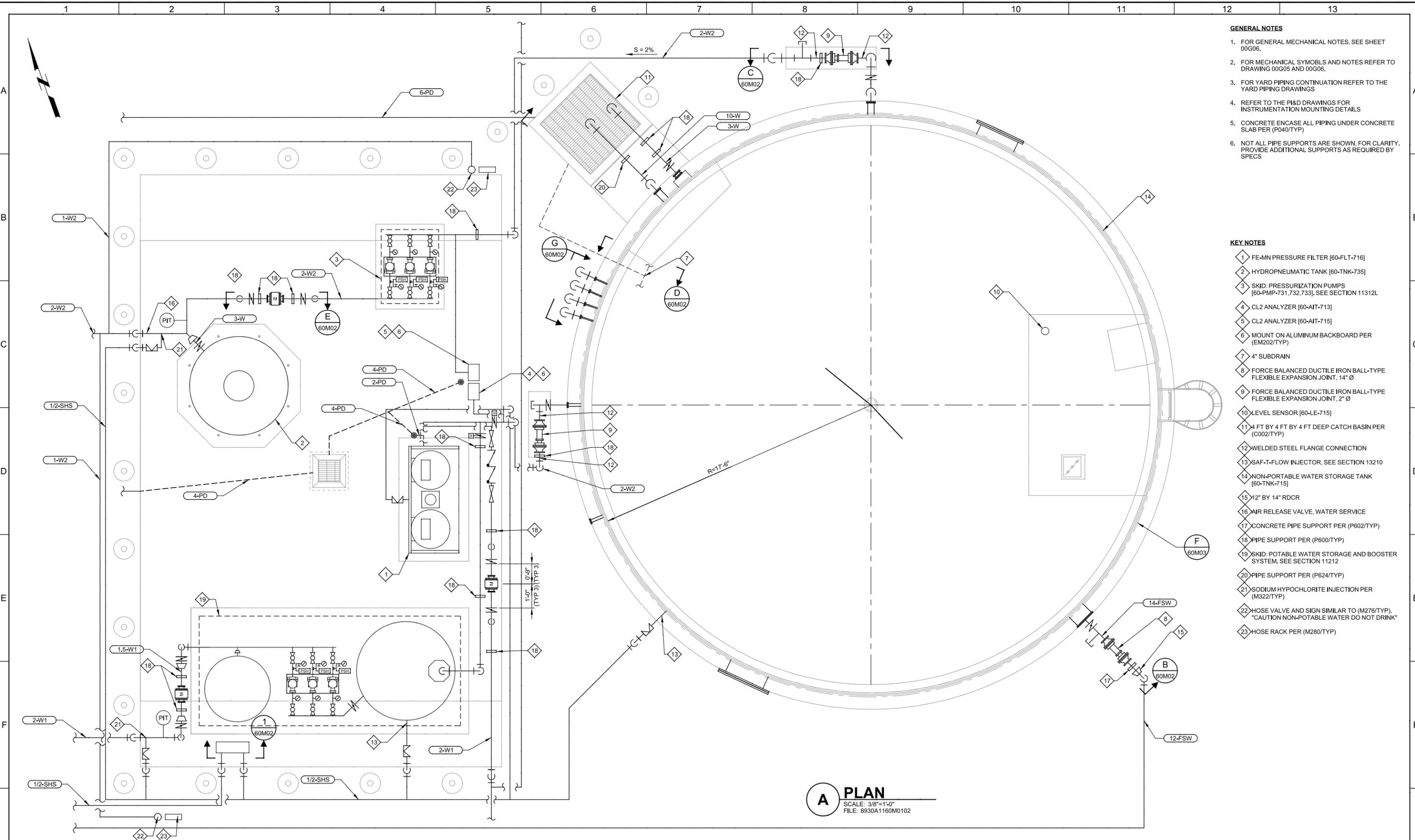
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**51M06**  
 SHEET NO.  
OF 549

Plot Date: 16-SEP-2013 7:29:12 PM

User: DDonk

PlotScale: 2:1

LAST SAVED BY: ddonk



- GENERAL NOTES**
- FOR GENERAL MECHANICAL NOTES, SEE SHEET 00G06.
  - FOR MECHANICAL SYMBOLS AND NOTES REFER TO DRAWING 00G05 AND 00G06.
  - FOR YARD PIPING CONTINUATION REFER TO THE YARD PIPING DRAWINGS
  - REFER TO THE P&ID DRAWINGS FOR INSTRUMENTATION MOUNTING DETAILS
  - CONCRETE ENCASE ALL PIPING UNDER CONCRETE SLAB PER (P040/TYP)
  - NOT ALL PIPE SUPPORTS ARE SHOWN, FOR CLARITY, PROVIDE ADDITIONAL SUPPORTS AS REQUIRED BY SPECS

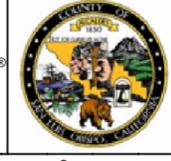
- KEY NOTES**
- 1 FE-MN PRESSURE FILTER [60-FLT-716]
  - 2 HYDROPNEUMATIC TANK [60-TNK-735]
  - 3 SKID: PRESSURIZATION PUMPS [60-PMP-731,732,733], SEE SECTION 11312L
  - 4 CL2 ANALYZER [60-AIT-713]
  - 5 CL2 ANALYZER [60-AIT-715]
  - 6 MOUNT ON ALUMINUM BACKBOARD PER (EM202/TYP)
  - 7 4" SUBDRAIN
  - 8 FORCE BALANCED DUCTILE IRON BALL-TYPE FLEXIBLE EXPANSION JOINT, 14" Ø
  - 9 FORCE BALANCED DUCTILE IRON BALL-TYPE FLEXIBLE EXPANSION JOINT, 2" Ø
  - 10 LEVEL SENSOR [60-LE-715]
  - 11 4 FT BY 4 FT BY 4 FT DEEP CATCH BASIN PER (C002/TYP)
  - 12 WELDED STEEL FLANGE CONNECTION
  - 13 SAF-T-FLOW INJECTOR, SEE SECTION 13210
  - 14 NON-PORTABLE WATER STORAGE TANK [60-TNK-715]
  - 15 12" BY 14" RDCR
  - 16 AIR RELEASE VALVE, WATER SERVICE
  - 17 CONCRETE PIPE SUPPORT PER (P602/TYP)
  - 18 PIPE SUPPORT PER (P600/TYP)
  - 19 SKID: POTABLE WATER STORAGE AND BOOSTER SYSTEM, SEE SECTION 11212
  - 20 PIPE SUPPORT PER (P624/TYP)
  - 21 SODIUM HYPOCHLORITE INJECTION PER (M322/TYP)
  - 22 HOSE VALVE AND SIGN SIMILAR TO (M276/TYP), "CAUTION NON-POTABLE WATER DO NOT DRINK"
  - 23 HOSE RACK PER (M280/TYP)

**A PLAN**  
 SCALE: 3/8"=1'-0"  
 FILE: 8930A1160M0102

REV	DATE	BY	DESCRIPTION
1			
2			
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DESIGNED  
DM  
 DRAWN  
DBJ  
 CHECKED  
TPY  
 DATE  
SEPT 2013

**Professional Engineer**  
 CAROLLO  
 No. 52686  
 CIVIL  
 STATE OF CALIFORNIA  
 9/16/2013



**SAN LUIS OBISPO COUNTY**

**SAN LUIS OBISPO COUNTY**  
**LOS OSOS WATER RECYCLING FACILITY PROJECT**  
 MECHANICAL  
**WATER STORAGE TANKS AND WELL WATER PUMP STATION PLAN**

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

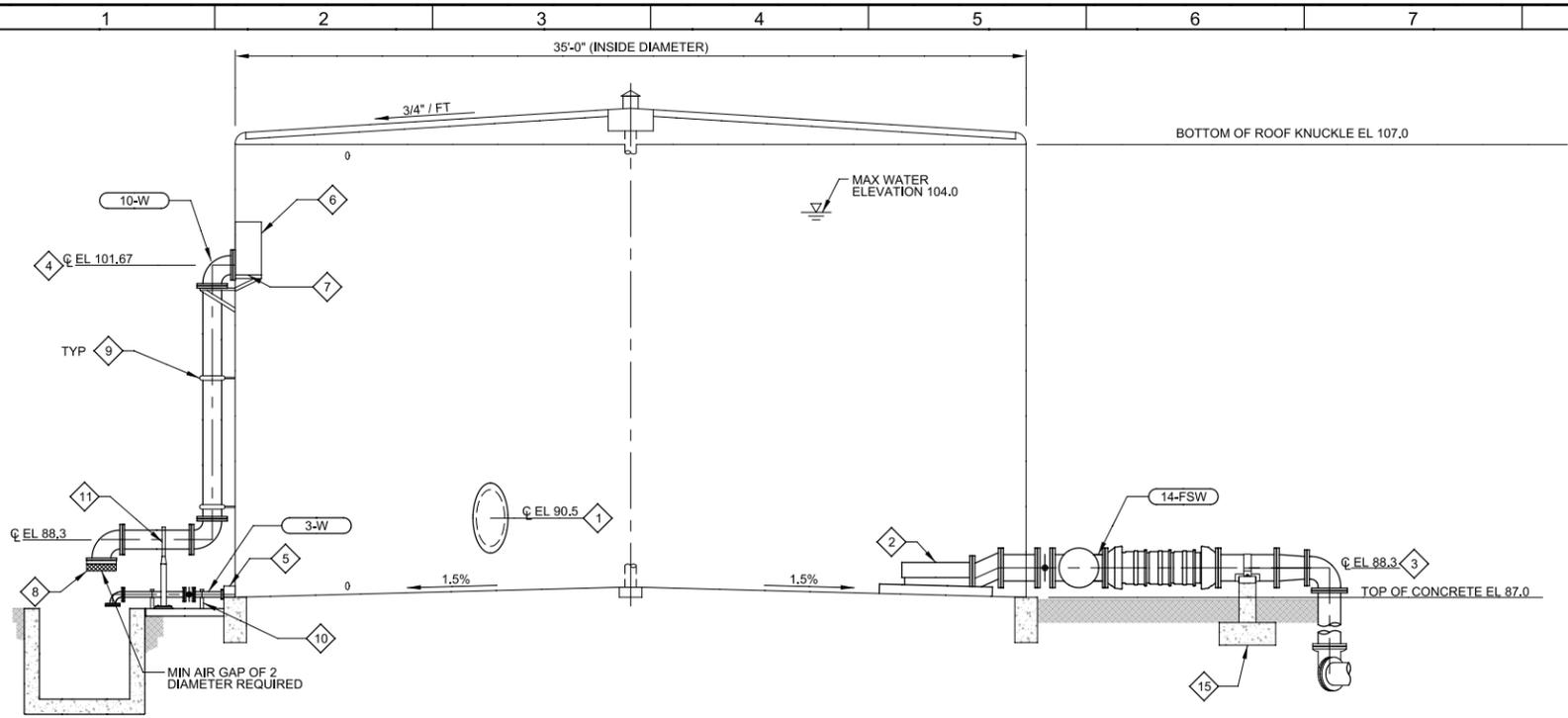
JOB NO. 8930A.11  
 DRAWING NO. **60M01**  
 SHEET NO. OF 549

Plot Date: 16-SEP-2013 7:29:24 PM

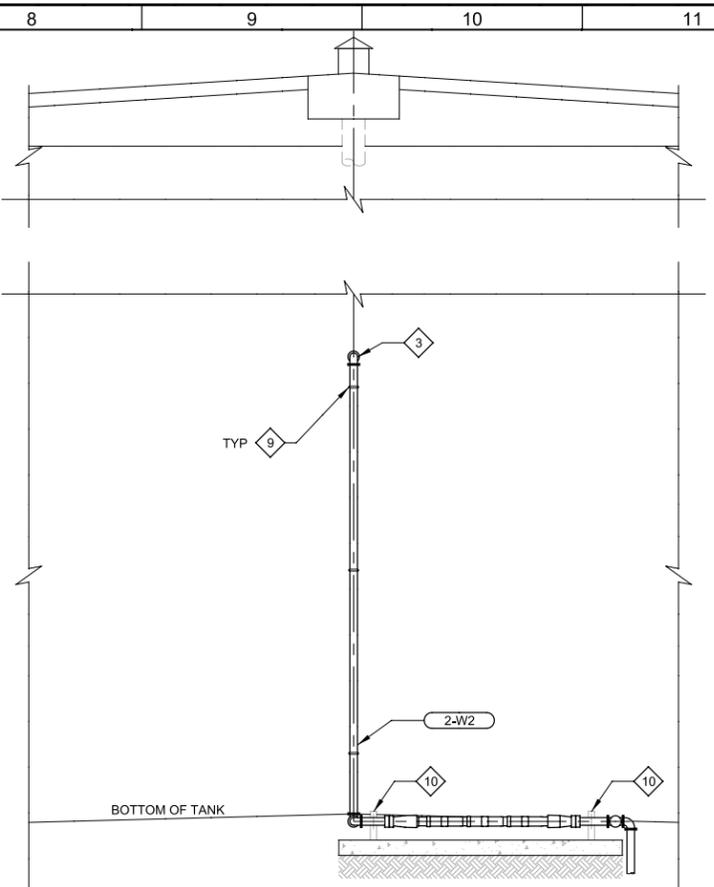
User: DDonk

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: djacobs



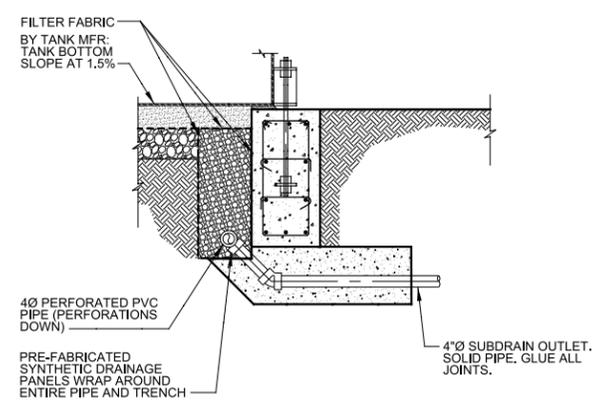
**B SECTION**  
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 FILE: 8930A11-60-M-0303



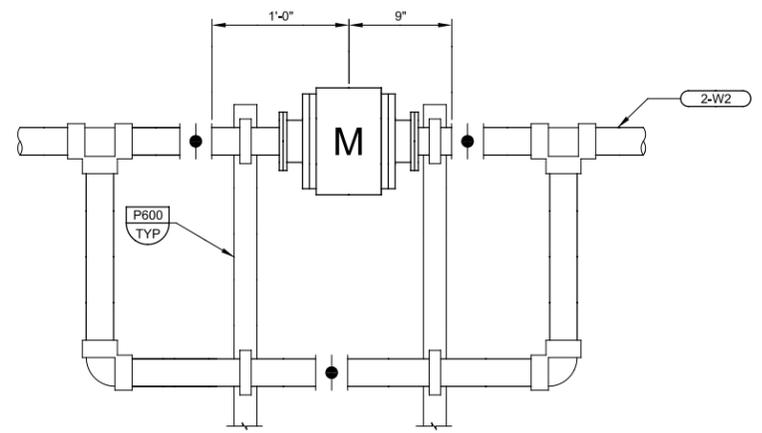
**C SECTION**  
 60M01 SCALE: N.T.S.  
 FILE: 8930A11-60-M-0303

- GENERAL NOTES**
- FOR MECHANICAL SYMBOLS AND NOTES REFER TO DRAWING 00G05 AND 00G06.
  - FOR YARD PIPING CONTINUATION REFER TO THE YARD PIPING DRAWINGS
  - REFER TO THE P&ID DRAWINGS FOR INSTRUMENTATION MOUNTING DETAILS

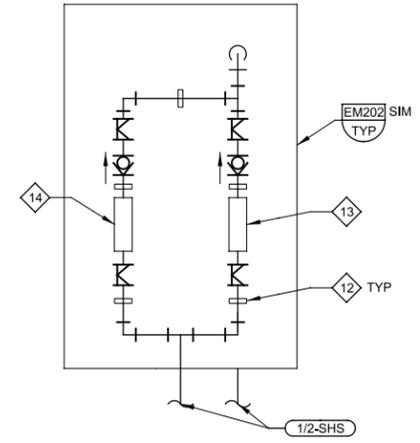
- KEY NOTES**
- 1 ACCESS MANHOLE
  - 2 FIRE SUPPLY WATER OUTLET
  - 3 NON-POTABLE WATER OUTLET
  - 4 OVERFLOW
  - 5 DRAIN
  - 6 OVERFLOW WEIR
  - 7 GUSSET PLATE SUPPORTS FOR OVERFLOW WEIR
  - 8 BIRD SCREEN
  - 9 PIPE SUPPORTS TO BE PROVIDED AND DESIGNED BY MFR
  - 10 PIPE SUPPORT PER (P600/TYP)
  - 11 PIPE SUPPORT PER (P624/TYP)
  - 12 PIPE SUPPORT PER (P662/TYP)
  - 13 60-FI-281E
  - 14 60-FI-281F
  - 15 PIPE SUPPORT PER (P602/TYP)



**D SECTION**  
 60M01 SCALE: NTS  
 FILE: 8930A11-60-M-0303



**E DETAIL**  
 60M01 SCALE: N.T.S.  
 FILE: 8930A11-60-M-0303



**1 DETAIL**  
 60M01 SCALE: NTS  
 FILE: 8930A11-60-M-0303

REV	DATE	BY	DESCRIPTION

DESIGNED	JK
DRAWN	DE
CHECKED	HGK
DATE	SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
 NON-POTABLE WATER STORAGE AND PUMP STATION  
 SECTIONS AND DETAILS

VERIFY SCALES  
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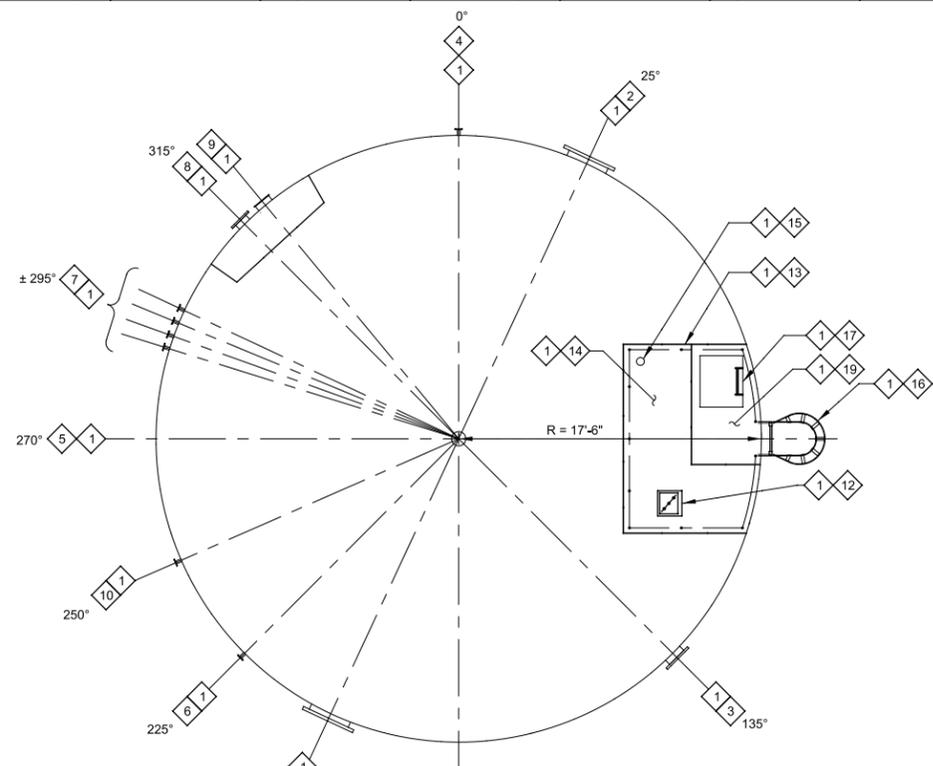
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8930A.11  
 DRAWING NO.  
**60M02**  
 SHEET NO.  
OF 549

Plot Date: 16-SEP-2013 7:29:37 PM

User: DDonk

PlotScale: 2:1

LAST SAVED BY: djacob

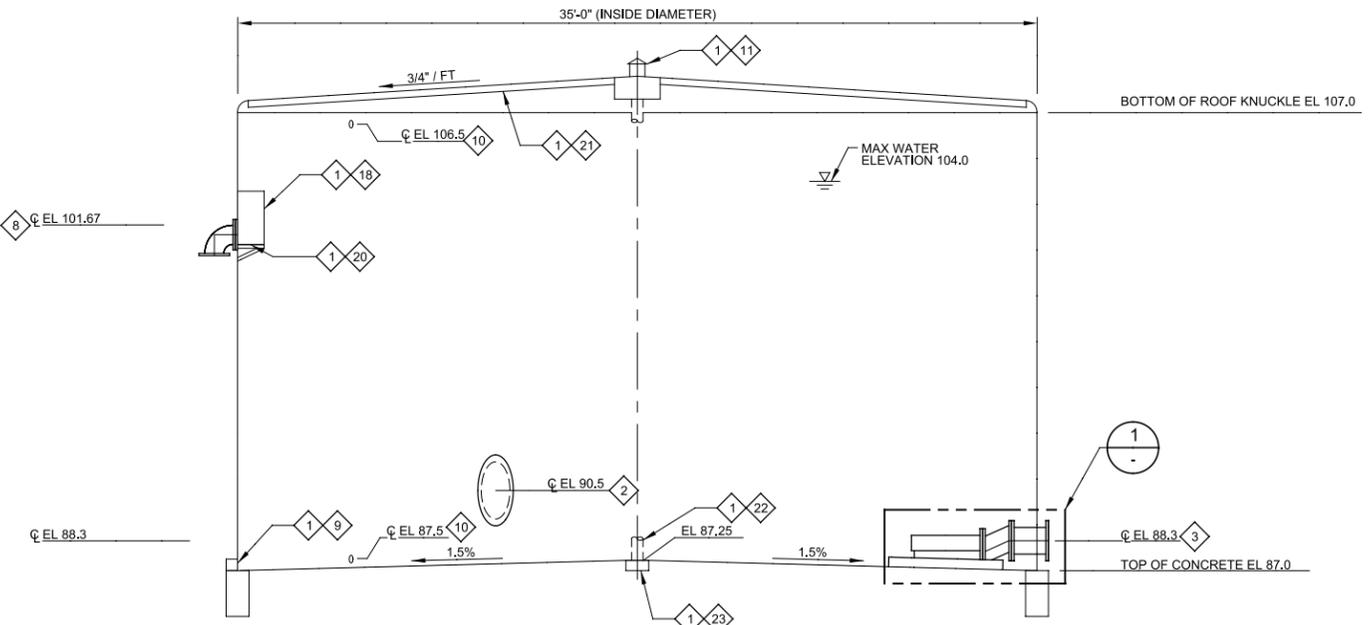


**F TANK PLAN**  
 60M01 SCALE: 3/16" = 1'-0"  
 FILE: 8930A11-60-M-0303

NON-POTABLE WATER TANK NOZZLE SCHEDULE					
KEY NOTE	SERVICE	QUANTITY	SIZE/TYPE OF CONNECTION ON TANK	CENTERLINE ELEVATION	PROJECTION
2	ACCESS MANHOLE	2	30"	90.50	8"
3	FIRE SUPPLY WATER OUTLET	1	14" FLANGED	88.30	8"
4	POTABLE WATER OUTLET	1	2" FLANGED	97.00	8"
5	TANK INLET	1	2" FLANGED	88.30	8"
6	SODIUM HYPOCHLORITE INLET	1	1" FEMALE NPT	89.50	8"
7	SAMPLE TAPS	4	3/4" THREADED	90.00, 93.00, 96.00, 99.00	8"
8	OVERFLOW	1	10" FLANGED	101.67	90° ELL DOWN
9	DRAIN	1	6-inch by 12-inch flush connection per API 650	FLUSH WITH BOTTOM	8"
10	LEVEL GAUGE PORTS	2	2" FLANGED	87.50, 106.50	8"

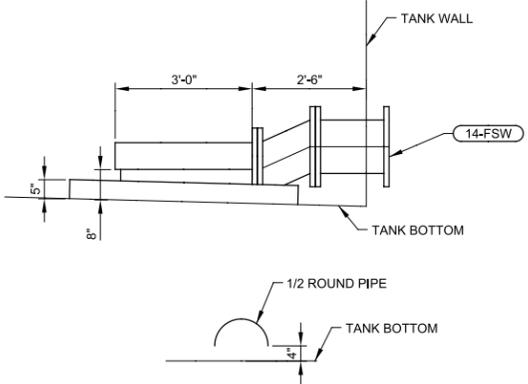
- GENERAL NOTES**
- FOR MECHANICAL SYMBOLS AND NOTES REFER TO DRAWING 00G05 AND 00G06.
  - FOR YARD PIPING CONTINUATION REFER TO THE YARD PIPING DRAWINGS
  - REFER TO THE P&ID DRAWINGS FOR INSTRUMENTATION MOUNTING DETAILS

- KEY NOTES**
- PROVIDED BY MANUFACTURER
  - ACCESS MANHOLE
  - FIRE SUPPLY WATER OUTLET
  - NON-POTABLE WATER OUTLET
  - NON-POTABLE TANK INLET
  - SODIUM HYPOCHLORITE INLET
  - SAMPLE TAPS
  - OVERFLOW
  - DRAIN
  - LEVEL GAUGE PORTS WITH BLIND FLANGES
  - ROOF VENT WITH SCREEN
  - 2 FT BY 2 FT MIXER ACCESS HATCH
  - GUARDRAIL SIMILAR TO (A343/TYP)
  - NON-SKID SURFACE FOR AREA WITHIN GUARDRAILS
  - LEVEL SENSOR 60-LE-715, MOUNT PER (NL170/TYP), MOUNTING PORT AND PIPE PROVIDED BY MANUFACTURER.
  - LADDER AND CAGE
  - 2.5 FT BY 3.0 FT ACCESS HATCH AND LADDER
  - OVERFLOW WEIR
  - NON-SKID PLATFORM
  - GUSSET PLATE SUPPORTS FOR OVERFLOW WEIR
  - ROOF SUPPORT RAFTERS
  - ROOF SUPPORT COLUMN
  - ROOF SUPPORT COLUMN FOOTING
  - PIPE SUPPORTS TO BE PROVIDED AND DESIGNED BY MFR



- NOTES:**
- SOME ITEMS SHOWN OUT OF PLANE FOR CLARITY. REFER TO DETAIL B FOR ORIENTATION.

**1 TANK DETAIL**  
 60M01 SCALE: 1/4" = 1'-0"  
 FILE: 8930A11-60-M-0303



**2 OUTLET DETAIL**  
 60M01 SCALE: 1/2" = 1'-0"  
 FILE: 8930A11-60-M-0303

REV	DATE	BY	DESCRIPTION

DESIGNED JK  
 DRAWN DE  
 CHECKED TPY  
 DATE SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
 NON-POTABLE WATER STORAGE TANK  
 PLAN AND SECTION

VERIFY SCALES  
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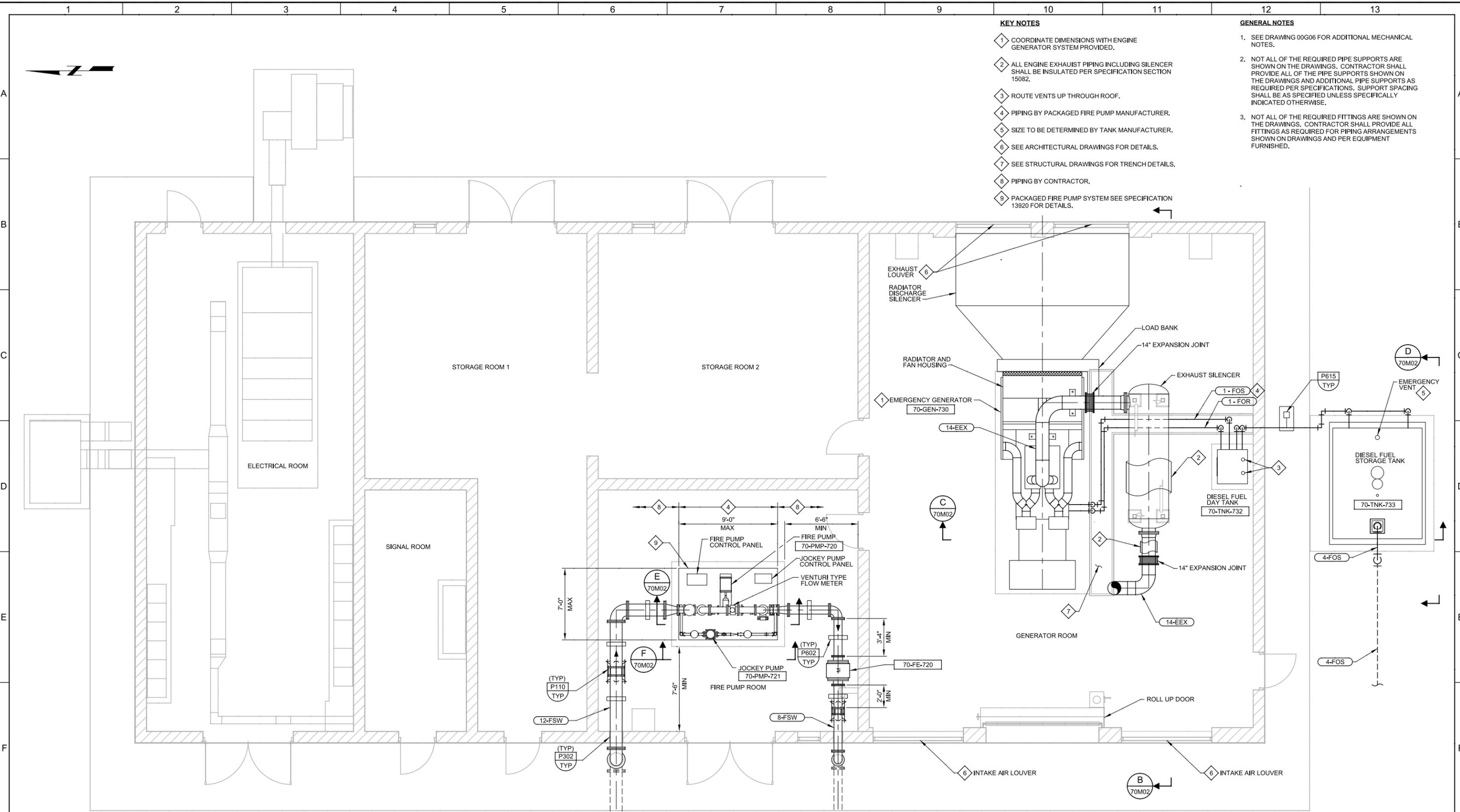
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 DRAWING NO. 60M03  
 SHEET NO. OF 549

Plot Date: 16-SEP-2013 7:29:49 PM

User: DDunk

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: djacobs



**KEY NOTES**

- 1 COORDINATE DIMENSIONS WITH ENGINE GENERATOR SYSTEM PROVIDED.
- 2 ALL ENGINE EXHAUST PIPING INCLUDING SILENCER SHALL BE INSULATED PER SPECIFICATION SECTION 15082.
- 3 ROUTE VENTS UP THROUGH ROOF.
- 4 PIPING BY PACKAGED FIRE PUMP MANUFACTURER.
- 5 SIZE TO BE DETERMINED BY TANK MANUFACTURER.
- 6 SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
- 7 SEE STRUCTURAL DRAWINGS FOR TRENCH DETAILS.
- 8 PIPING BY CONTRACTOR.
- 9 PACKAGED FIRE PUMP SYSTEM SEE SPECIFICATION 13920 FOR DETAILS.

**GENERAL NOTES**

- 1. SEE DRAWING 00G06 FOR ADDITIONAL MECHANICAL NOTES.
- 2. NOT ALL OF THE REQUIRED PIPE SUPPORTS ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE ALL OF THE PIPE SUPPORTS SHOWN ON THE DRAWINGS AND ADDITIONAL PIPE SUPPORTS AS REQUIRED PER SPECIFICATIONS. SUPPORT SPACING SHALL BE AS SPECIFIED UNLESS SPECIFICALLY INDICATED OTHERWISE.
- 3. NOT ALL OF THE REQUIRED FITTINGS ARE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE ALL FITTINGS AS REQUIRED FOR PIPING ARRANGEMENTS SHOWN ON DRAWINGS AND PER EQUIPMENT FURNISHED.

**A PLAN**  
 SCALE: 1/4" = 1'-0"  
 FILE: 8930A1170M0101

REV	DATE	BY	DESCRIPTION

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SEPT 2013

9/16/2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 MECHANICAL  
**ELECTRICAL BUILDING PLAN**

VERIFY SCALES  
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JOB NO.  
8930A.11

DRAWING NO.  
**70M01**

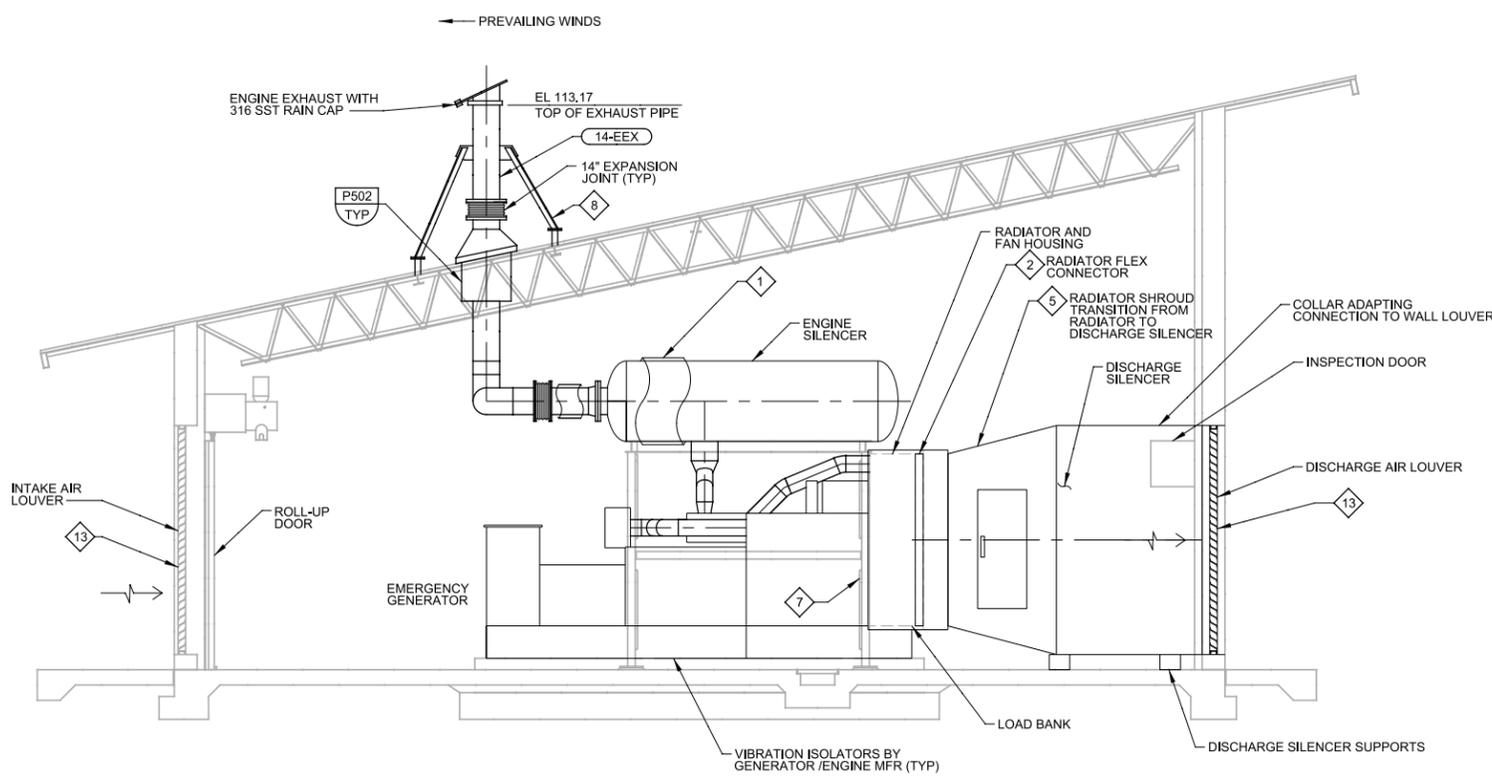
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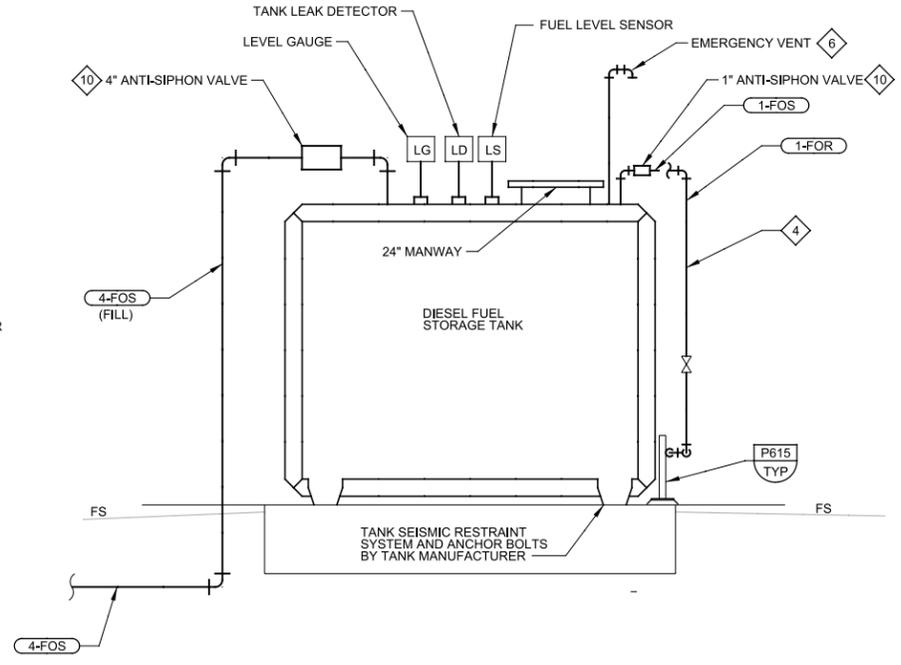
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LAST SAVED BY: ddonk

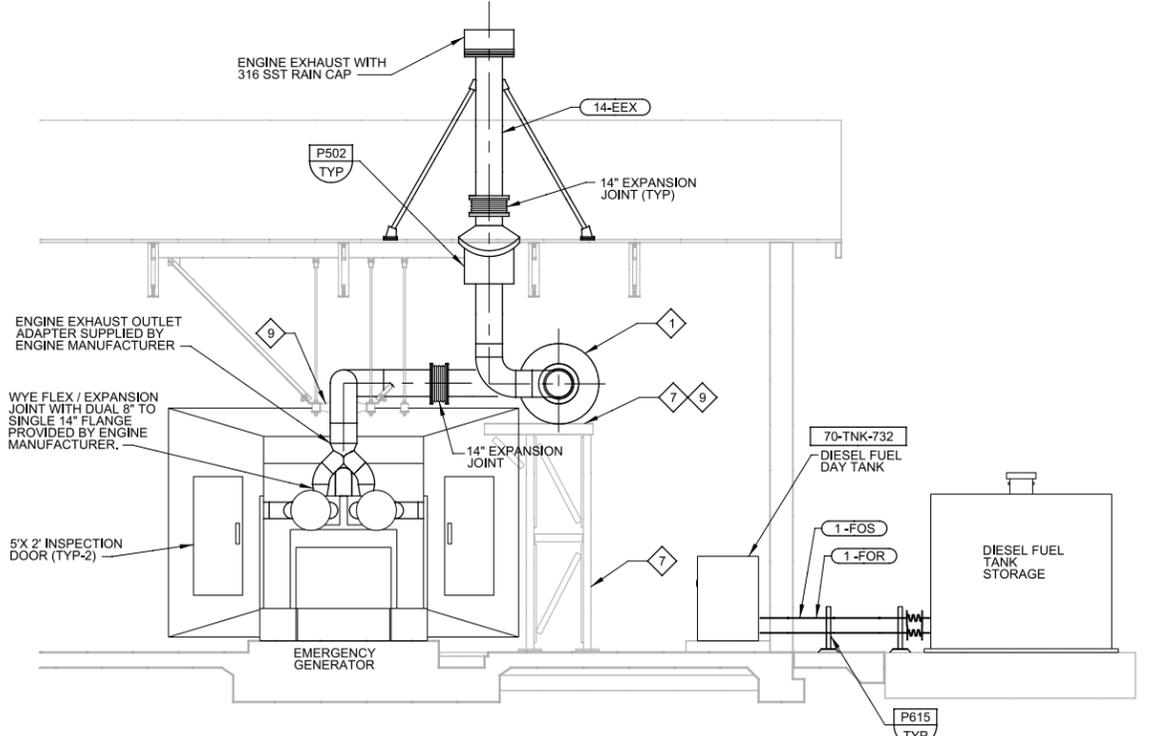


**B SECTION**  
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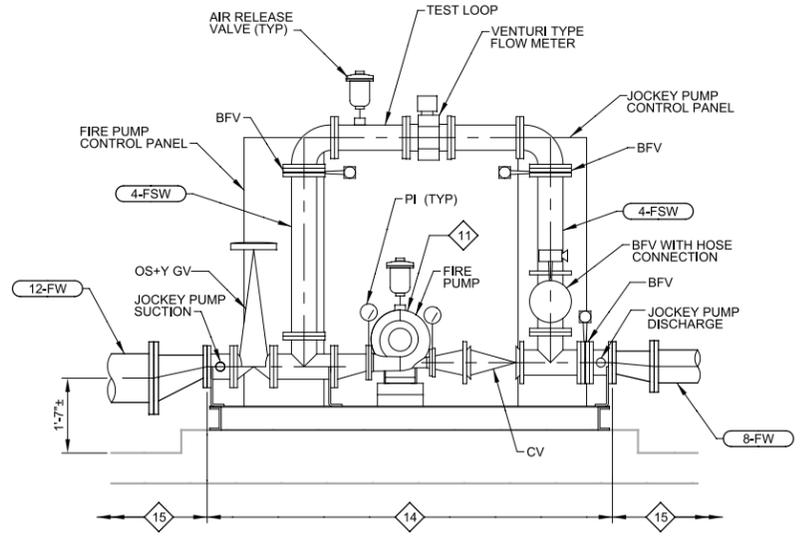


**D SECTION**  
70M01 SCALE: 3/8" = 1'-0"  
FILE: FILE

- GENERAL NOTES**
- SEE DRAWING 00G06 FOR ADDITIONAL MECHANICAL NOTES.
- KEY NOTES**
- ALL ENGINE EXHAUST PIPE INCLUDING SILENCER SHALL BE INSULATED PER SPECIFICATION 15082.
  - FLEXIBLE CONNECTOR SHALL BE 0.25" THICK NYLON REINFORCED NEOPRENE OR NEOPRENE COATED CANVAS.
  - ENGINE SUPPLIER SHALL PROVIDE FLEX CONNECTIONS ON ALL FUEL LINE CONNECTIONS TO ENGINE.
  - FUEL OIL LINE SIZES BETWEEN DAY TANK AND ENGINE SHALL BE DETERMINED BY THE ENGINE SUPPLIER.
  - SHROUD SHALL BE METAL DUCT OF ALUMINUM CONSTRUCTION. MINIMUM THICKNESS AS REQUIRED PER SMACNA FOR DUCT SIZE BASED ON LARGEST DIMENSION OF SHROUD ATTACHED TO THE RADIATOR AND FAN HOUSING. REFER TO SPECIFICATION SECTION 15812 FOR ADDITIONAL REQUIREMENTS.
  - EMERGENCY VENT SIZE SHALL BE DETERMINED BY MANUFACTURER.
  - ENGINE SILENCER SUPPORT PER DRAWING 70S07.
  - ENGINE EXHAUST PIPING SUPPORT PER DRAWING 70S07/70S08.
  - PROVIDE SILENCER SUPPORT SADDLES WITH SLOTTED MOUNTING HOLES FOR THERMAL EXPANSION.
  - ANTI-SIPHON VALVES SHALL BE PROVIDED BY TANK MANUFACTURER.
  - AIR RELEASE VALVE BY PACKGED FIRE PUMP SYSTEM MANUFACTURER.
  - SILENCER SUPPORT SHOWN SCREENED FOR CLARITY.
  - SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INSTALLATION DETAILS.
  - PIPING BY PACKAGED FIRE PUMP MANUFACTURER.
  - PIPING BY CONTRACTOR.

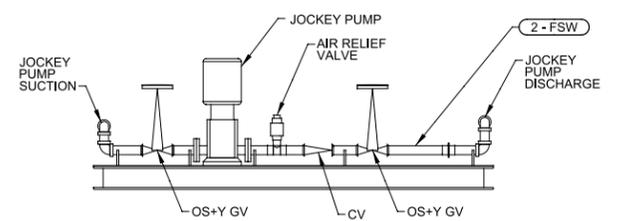


**C SECTION**  
70M01 SCALE: 1/4" = 1'-0"  
FILE: FILE



**E SECTION**  
70M01 SCALE: 1/2" = 1'-0"  
FILE: FILE

**PACKAGED FIRE PUMP LEGEND**  
CV = SWING CHECK VALVE  
BFV = BUTTERFLY VALVE  
OS&Y GV = OUTSIDE STEM AND YOKE GATE VALVE



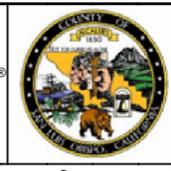
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FILE: FILE

REV	DATE	BY	DESCRIPTION
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DRAWN DBJ  
CHECKED TYP  
DATE SEPT 2013



9/16/2013



**SAN LUIS OBISPO COUNTY**

**SAN LUIS OBISPO COUNTY**  
LOS OSOS WATER RECYCLING FACILITY PROJECT  
MECHANICAL  
**ELECTRICAL BUILDING SECTION**

VERIFY SCALES  
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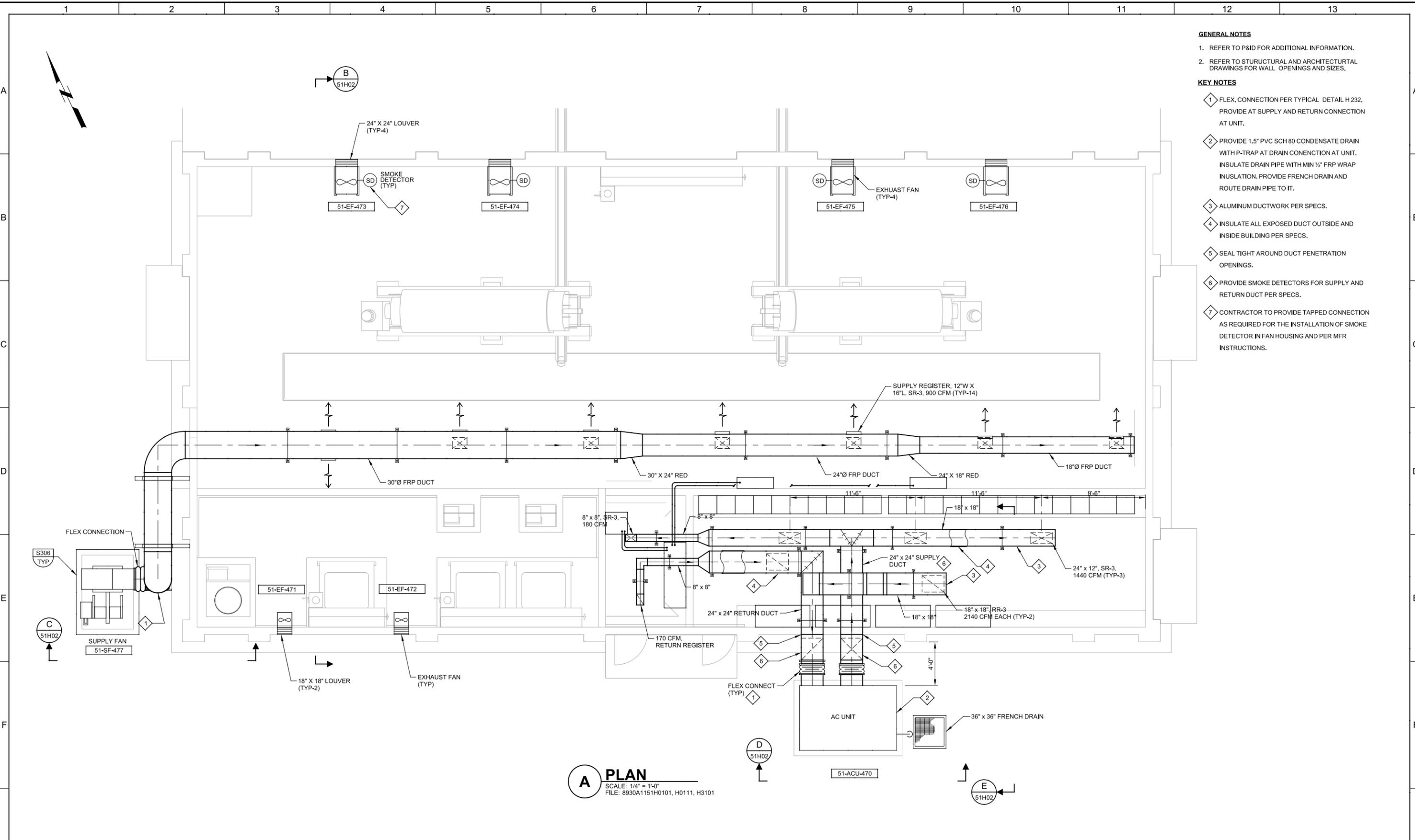
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SHEET NO. OF 549

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User: DDonk

Model: Layout1 ColorTable: gshades.ctb DesignScript: Carollo\_Sld\_Pen\_v0805.pen PlotScale: 2:1

LAST SAVED BY: ddonk



- GENERAL NOTES**
- REFER TO P&ID FOR ADDITIONAL INFORMATION.
  - REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR WALL OPENINGS AND SIZES.
- KEY NOTES**
- FLEX CONNECTION PER TYPICAL DETAIL H 232. PROVIDE AT SUPPLY AND RETURN CONNECTION AT UNIT.
  - PROVIDE 1.5" PVC SCH 80 CONDENSATE DRAIN WITH P-TRAP AT DRAIN CONNECTION AT UNIT. INSULATE DRAIN PIPE WITH MIN 1/2" FRP WRAP INSULATION. PROVIDE FRENCH DRAIN AND ROUTE DRAIN PIPE TO IT.
  - ALUMINUM DUCTWORK PER SPECS.
  - INSULATE ALL EXPOSED DUCT OUTSIDE AND INSIDE BUILDING PER SPECS.
  - SEAL TIGHT AROUND DUCT PENETRATION OPENINGS.
  - PROVIDE SMOKE DETECTORS FOR SUPPLY AND RETURN DUCT PER SPECS.
  - CONTRACTOR TO PROVIDE TAPPED CONNECTION AS REQUIRED FOR THE INSTALLATION OF SMOKE DETECTOR IN FAN HOUSING AND PER MFR INSTRUCTIONS.

**A PLAN**  
 SCALE: 1/4" = 1'-0"  
 FILE: 8930A1151H0101, H0111, H3101

REV	DATE	BY	DESCRIPTION

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DATE  
SEPT 2013

9/16/2013



SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 HVAC  
 DEWATERING BUILDING PLAN

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	JOB NO. 8930A.11
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	DRAWING NO. <b>51H01</b>
	SHEET NO. OF XX

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User: DDonk

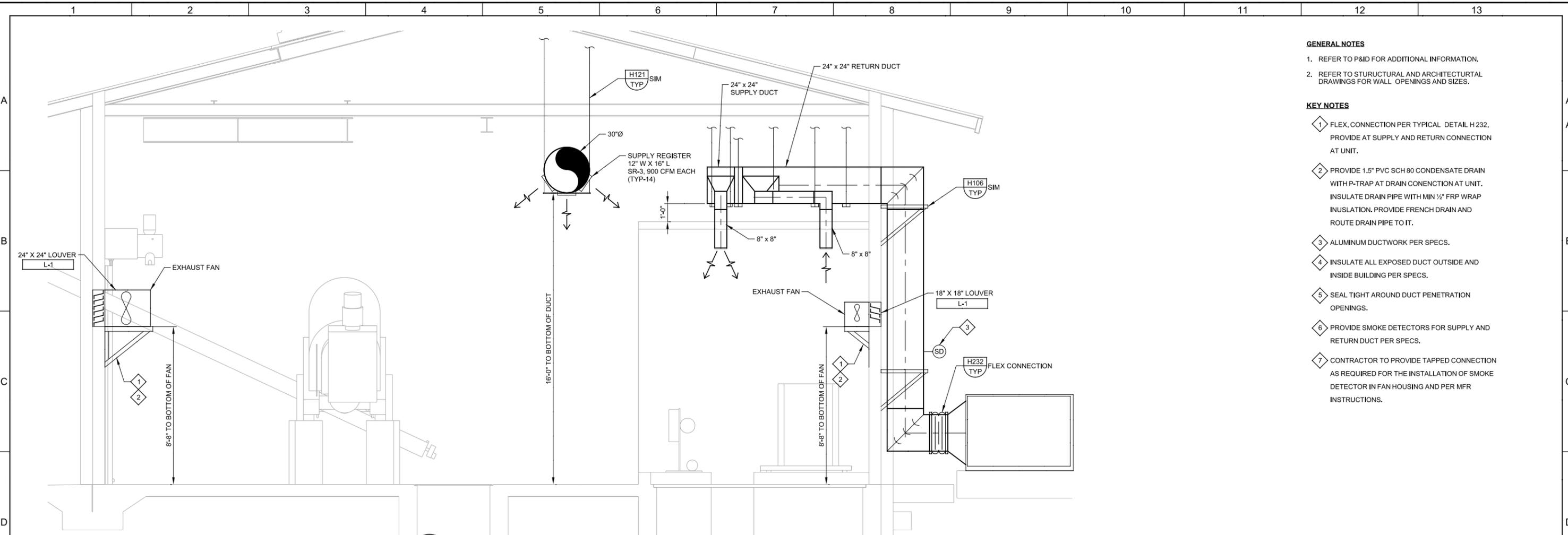
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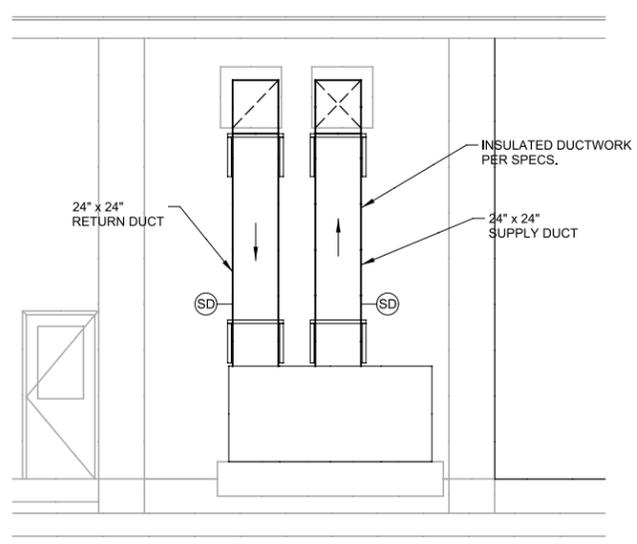
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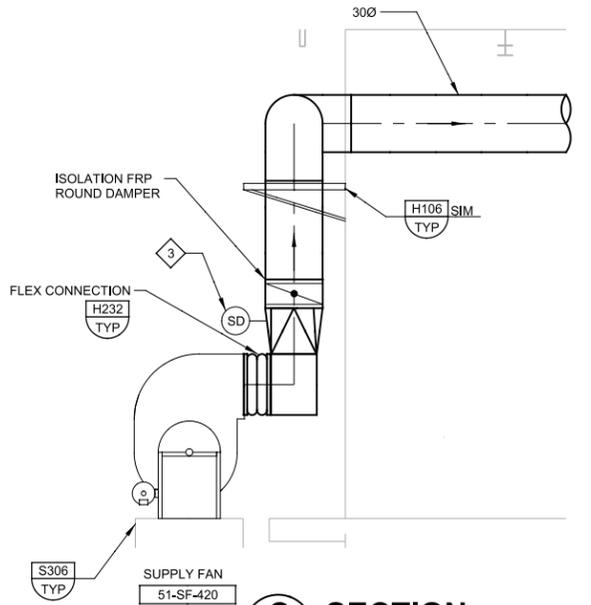
- GENERAL NOTES**
- REFER TO P&ID FOR ADDITIONAL INFORMATION.
  - REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR WALL OPENINGS AND SIZES.

- KEY NOTES**
- FLEX CONNECTION PER TYPICAL DETAIL H 232. PROVIDE AT SUPPLY AND RETURN CONNECTION AT UNIT.
  - PROVIDE 1.5" PVC SCH 80 CONDENSATE DRAIN WITH P-TRAP AT DRAIN CONNECTION AT UNIT. INSULATE DRAIN PIPE WITH MIN 1/2" FRP WRAP INSULATION. PROVIDE FRENCH DRAIN AND ROUTE DRAIN PIPE TO IT.
  - ALUMINUM DUCTWORK PER SPECS.
  - INSULATE ALL EXPOSED DUCT OUTSIDE AND INSIDE BUILDING PER SPECS.
  - SEAL TIGHT AROUND DUCT PENETRATION OPENINGS.
  - PROVIDE SMOKE DETECTORS FOR SUPPLY AND RETURN DUCT PER SPECS.
  - CONTRACTOR TO PROVIDE TAPPED CONNECTION AS REQUIRED FOR THE INSTALLATION OF SMOKE DETECTOR IN FAN HOUSING AND PER MFR INSTRUCTIONS.

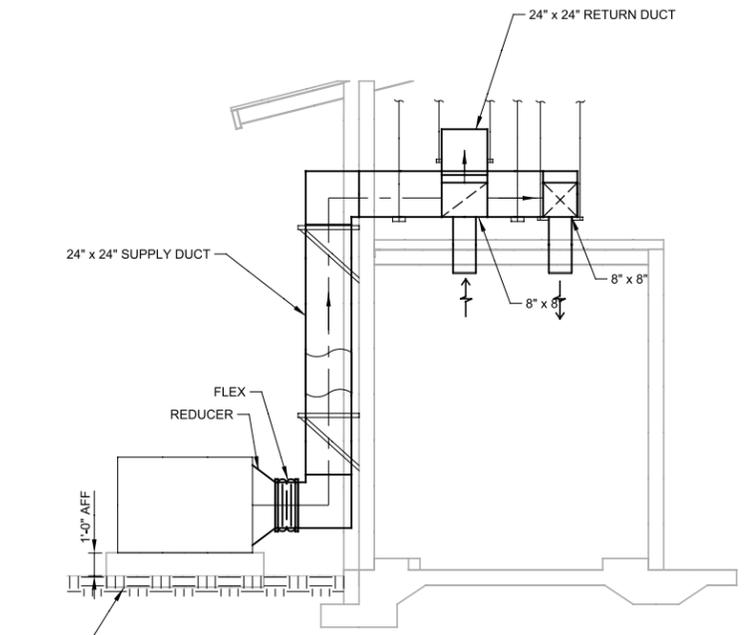
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51H01 SCALE: 3/8" = 1'-0"  
FILE: 8930A1151H0301, H0311, H3301



**D SECTION**  
51H01 SCALE: 1/4" = 1'-0"  
FILE: 8930A1151H0303, H0313, H3303



**C SECTION**  
51H01 SCALE: 3/8" = 1'-0"  
FILE: 8930A1151H0302, H0312, H3302



**E SECTION**  
51H01 SCALE: 1/4" = 1'-0"  
FILE: 8930A1151H0304, H0314, H3304

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CHECKED SGS
DATE SEPT 2013



**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
LOS OSOS WATER RECYCLING FACILITY PROJECT  
HVAC  
DEWATERING BUILDING SECTIONS

VERIFY SCALES  
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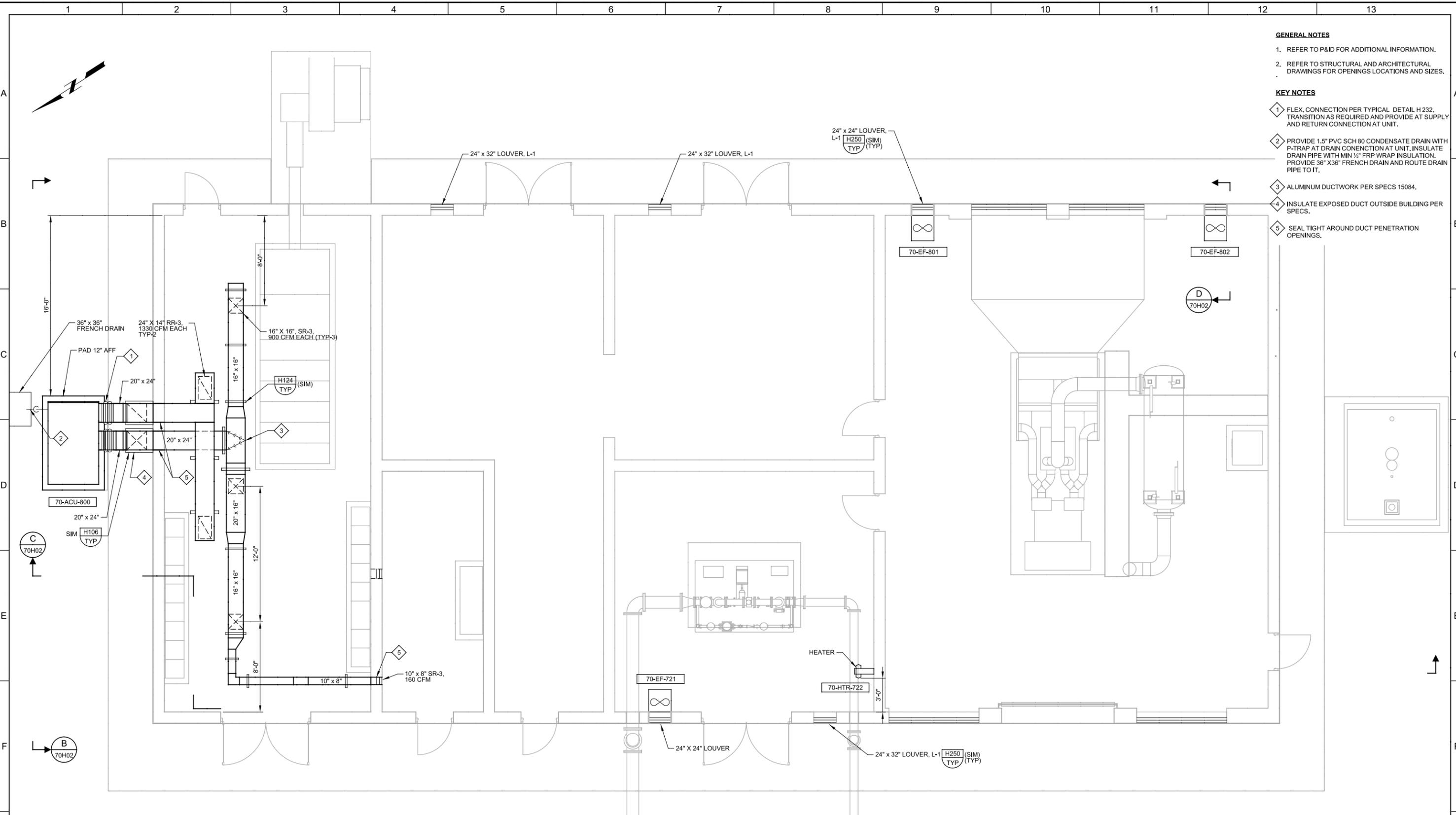
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User: D.Jacobs

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo\_Sld\_Pen\_v0905.pen PlotScale: 2:1

LAST SAVED BY: djacobs



- GENERAL NOTES**
- REFER TO P&ID FOR ADDITIONAL INFORMATION.
  - REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR OPENINGS LOCATIONS AND SIZES.
- KEY NOTES**
- FLEX CONNECTION PER TYPICAL DETAIL H.232. TRANSITION AS REQUIRED AND PROVIDE AT SUPPLY AND RETURN CONNECTION AT UNIT.
  - PROVIDE 1.5" PVC SCH 80 CONDENSATE DRAIN WITH P-TRAP AT DRAIN CONNECTION AT UNIT, INSULATE DRAIN PIPE WITH MIN 1/2" FRP WRAP INSULATION. PROVIDE 36" X 36" FRENCH DRAIN AND ROUTE DRAIN PIPE TO IT.
  - ALUMINUM DUCTWORK PER SPECS 15084.
  - INSULATE EXPOSED DUCT OUTSIDE BUILDING PER SPECS.
  - SEAL TIGHT AROUND DUCT PENETRATION OPENINGS.

**A PLAN**  
 SCALE: 1/4" = 1'-0"  
 FILE: 89930A11-70-H-0101

REV	DATE	BY	DESCRIPTION
1			
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**SAN LUIS OBISPO COUNTY**

SAN LUIS OBISPO COUNTY  
 LOS OSOS WATER RECYCLING FACILITY PROJECT  
 HVAC  
**ELECTRICAL BUILDING PLAN**

VERIFY SCALES  
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JOB NO.  
8930A.11  
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 SHEET NO.  
OF XX

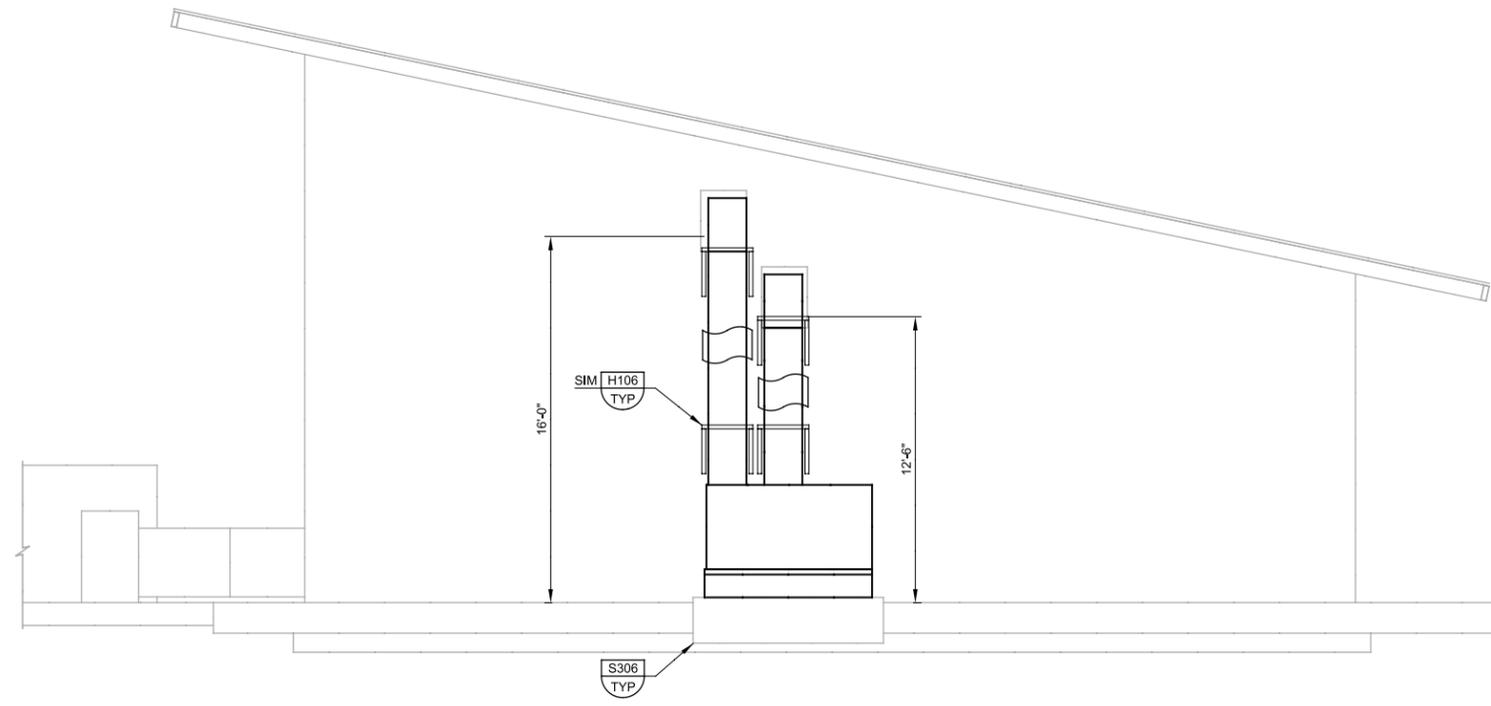
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User: D.Jacobs

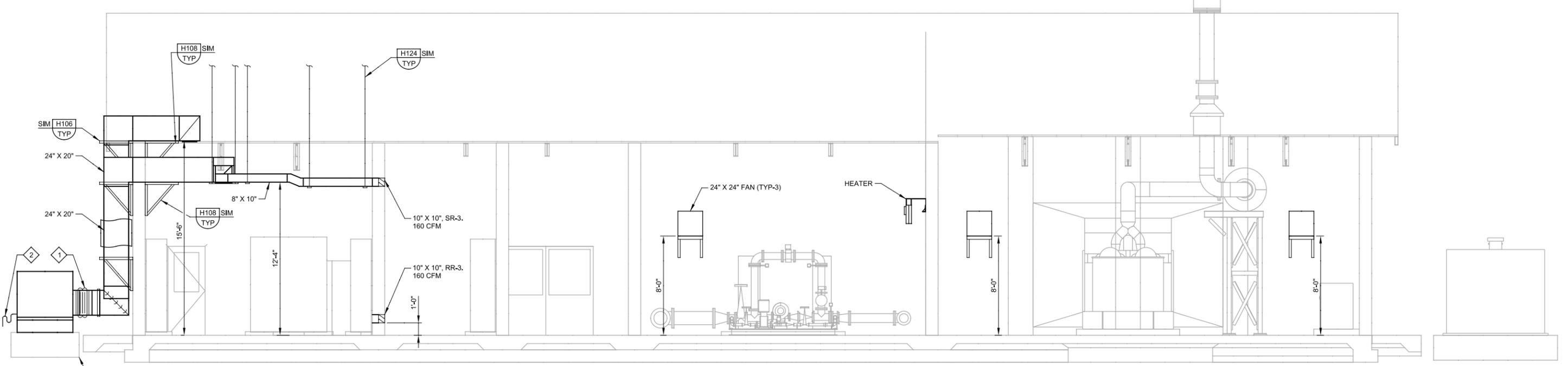
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LAST SAVED BY: ddonk

GENERAL NOTES:  
1. REFER TO GENERAL AND KEY NOTES ON DWG 70H01.



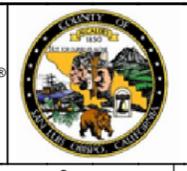
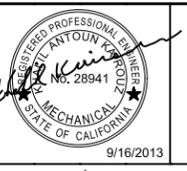
**B SECTION**  
70H01 SCALE: 1/4" = 1'-0"  
FILE: 8930A11-70-H-0301



**C SECTION**  
70H01 SCALE: 1/4" = 1'-0"  
FILE: 8930A11-70-H-0302

REV	DATE	BY	DESCRIPTION

DESIGNED  
KAK  
DRAWN  
DBJ  
CHECKED  
SGS  
DATE  
SEPT 2013



**SAN LUIS  
OBISPO  
COUNTY**

SAN LUIS OBISPO COUNTY  
LOS OSOS WATER RECYCLING FACILITY PROJECT  
HVAC  
ELECTRICAL BUILDING  
SECTIONS

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
8930A.11  
DRAWING NO.  
**70H02**  
SHEET NO.  
OF XX