

**Orange County Sanitation District  
Project No. P2-98A – A-Side Primary Clarifiers Replacement at Plant No. 2  
Coastal Development Permit Application, Huntington Beach**

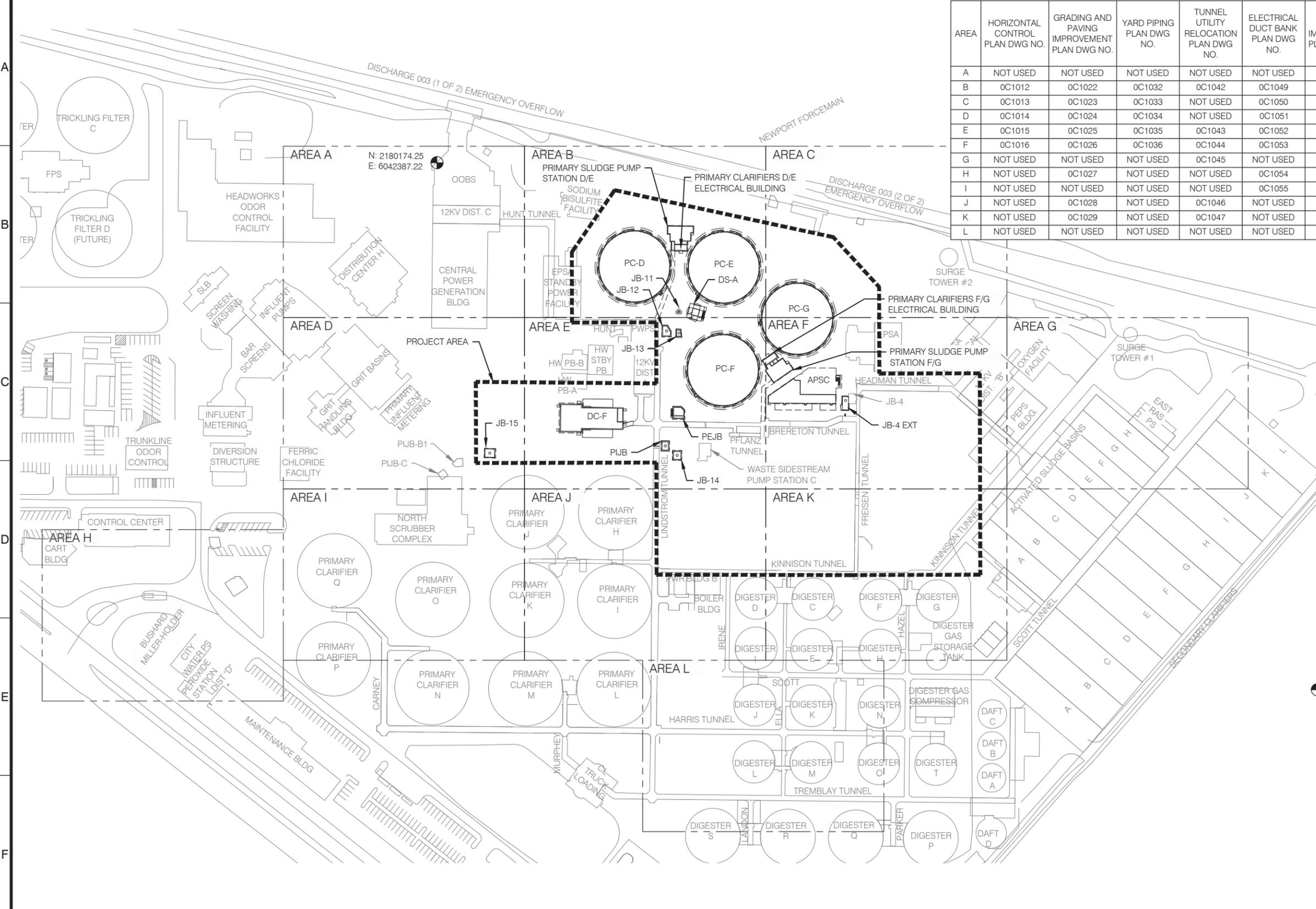
**SECTION 4 – DRAWINGS**

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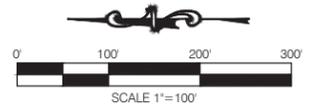
<b>Item</b>	<b>Description*</b>	<b>Drawing No. (Sheet)</b>
4.1	Site Plan, Staging Area and Work Boundary Plan	<b>0G0008</b>
4.2	New Site Plan	<b>0C1011</b>
4.3	Key Map, Grading and Paving Improvement Plan	<b>0C1021</b>
4.4	Area B, Grading and Paving Improvement Plan	<b>0C1022</b>
4.5	Area C, Grading and Paving Improvement Plan	<b>0C1023</b>
4.6	Area D, Grading and Paving Improvement Plan	<b>0C1024</b>
4.7	Area E, Grading and Paving Improvement Plan	<b>0C1025</b>
4.8	Area F, Grading and Paving Improvement Plan	<b>0C1026</b>
4.9	Area J, Grading and Paving Improvement Plan	<b>0C1028</b>
4.10	Area K, Grading and Paving Improvement Plan	<b>0C1029</b>
4.11	Primary Clarifiers F/G Electrical Building Plans and Perspective	<b>1A1002</b>
4.12	Distribution Center F Operating Level Floor Plan	<b>2A1002</b>
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4.14	Distribution Center F Building Elevations (2 of 2)	<b>2A2002</b>
4.15	Distribution Center F Perspective	<b>2A8001</b>
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4.17	Distribution Structure A Perspective	<b>1M8001</b>
4.18	Primary Clarifier Typical Sections (1 of 3)	<b>1M3002</b>
4.19	Primary Clarifier D Cover Perspective	<b>1M8004</b>
4.20	A-Side Primary Scrubbers Sections (1 of 5)	<b>3M3001</b>
4.21	A-Side Primary Scrubber Complex Perspective 1	<b>3M8001</b>
4.22	Chemical Feed and Storage Sections (1 of 3)	<b>4M3001</b>
4.23	Chemical Feed and Storage Sections (2 of 3)	<b>4M3002</b>

\* Note: Exception taken to north arrow pointing up requirement. North arrows are shown on plans.





AREA	HORIZONTAL CONTROL PLAN DWG NO.	GRADING AND PAVING IMPROVEMENT PLAN DWG NO.	YARD PIPING PLAN DWG NO.	TUNNEL UTILITY RELOCATION PLAN DWG NO.	ELECTRICAL DUCT BANK PLAN DWG NO.	DRAINAGE IMPROVEMENT PLAN DWG NO.	TUNNEL UTILITY DEMOLITION PHASE 1 PLAN DWG NO.	TUNNEL UTILITY IMPROVEMENT PHASE 1 PLAN DWG NO.	TUNNEL UTILITY DEMOLITION PHASE 2 PLAN DWG NO.
A	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
B	0C1012	0C1022	0C1032	0C1042	0C1049	0C1042	8C1010	8C1017	NOT USED
C	0C1013	0C1023	0C1033	NOT USED	0C1050	0C1043	NOT USED	NOT USED	NOT USED
D	0C1014	0C1024	0C1034	NOT USED	0C1051	NOT USED	BIT USED	NOT USED	NOT USED
E	0C1015	0C1025	0C1035	0C1043	0C1052	0C1044	8C1011	8C1018	8C1025
F	0C1016	0C1026	0C1036	0C1044	0C1053	0C1045	8C1012	8C1019	8C1026
G	NOT USED	NOT USED	NOT USED	0C1045	NOT USED	NOT USED	8C1013	8C1020	NOT USED
H	NOT USED	0C1027	NOT USED	NOT USED	0C1054	NOT USED	NOT USED	NOT USED	NOT USED
I	NOT USED	NOT USED	NOT USED	NOT USED	0C1055	NOT USED	NOT USED	NOT USED	NOT USED
J	NOT USED	0C1028	NOT USED	0C1046	NOT USED	0C1046	8C1014	8C1021	8C1028
K	NOT USED	0C1029	NOT USED	0C1047	NOT USED	0C1047	8C1015	8C1022	8C1029
L	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	NOT USED	8C1016	8C1023	NOT USED



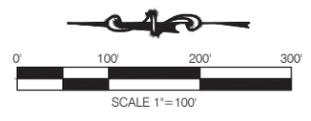
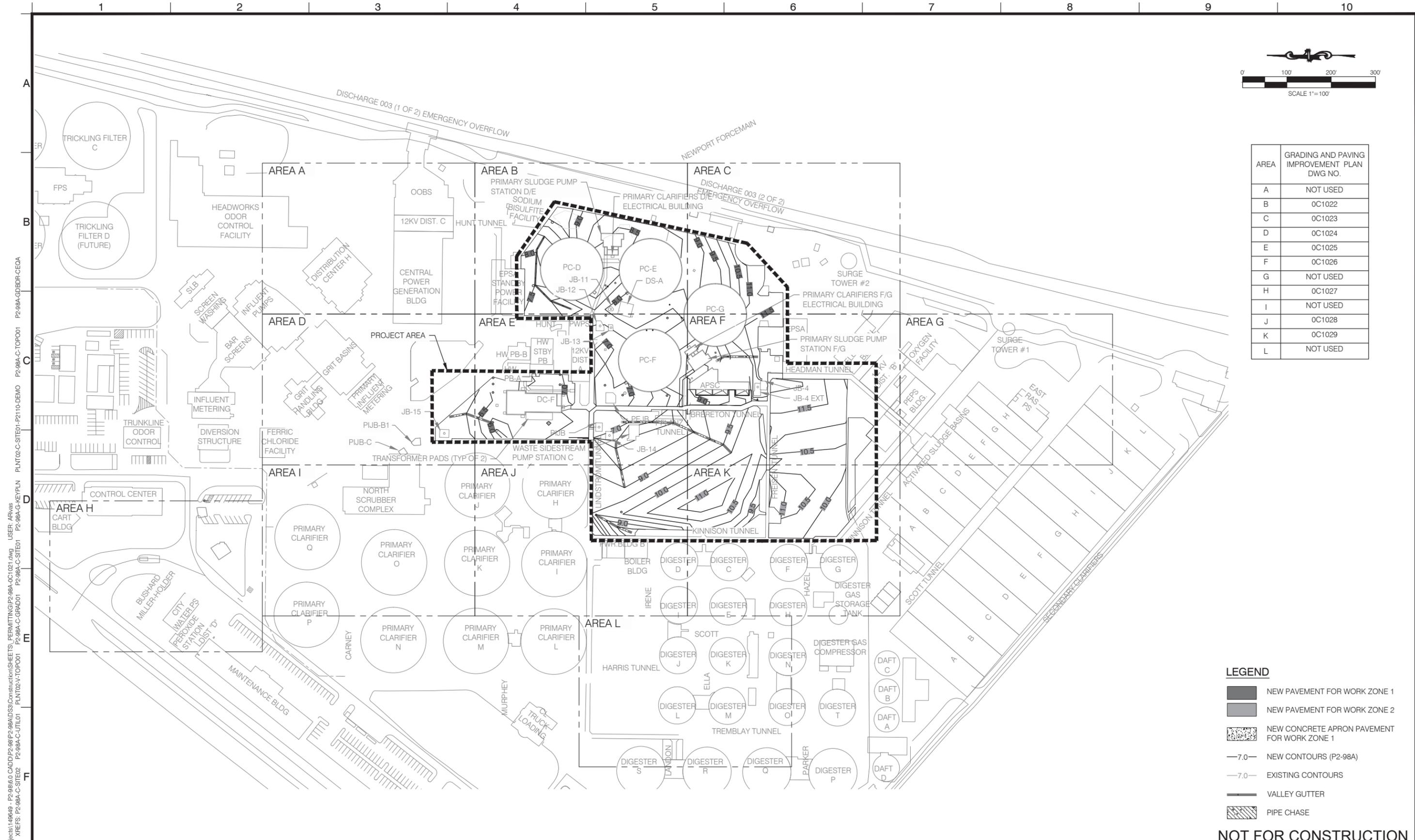
ORANGE COUNTY SANITATION DISTRICT  
 10844 ELLIS AVE.  
 FOUNTAIN VALLEY, CA 92708  
 (714) 593-7190

PLANT NO. 2 BENCHMARK  
 ELEVATIONS BASED ON BRASS DISK STAMPED "OBS 01"  
 SET ON THE NORTHEASTERLY SIDE OF THE OCEAN OUTFALL  
 BOOSTER STATION WETWELL. BENCH MARK OBS 01 (N  
 2180174.25, E 6042387.22, NAD83, ZONE 6, 2007.00 EPOCH)  
 ELEVATION = 13.88 FEET

PLANT NO. 2 BASIS OF BEARING AND COORDINATES  
 BEARINGS ARE BASED NAD83, ZONE 6, 2007.00 EPOCH  
 A FOUND "SURVEY MARK" SPIKE & WASHER STAMPED  
 "ORANGE COUNTY SURVEYOR" ON THE CENTERLINE OF  
 BROOKHURST STREET 541.34 FEET SOUTHWESTERLY OF  
 THE CENTERLINE INTERSECTION OF BUSHARD STREET (N  
 2179629.68, E 6040391.96) TO A MAG NAIL WASHER STAMPED  
 "LS 5411" AT THE CENTERLINE INTERSECTION OF BANNING  
 AVENUE AND BROOKHURST STREET (N 2181955.45, E  
 6042248.14) BEING N38°35'36"E

NOT FOR CONSTRUCTION

DWG: \\bcr\p01\Projects\Projects\148649 - P2-98A\6.0 CAD\DWG\P2-98A\A\03 Construction\Sheet\01.dwg USER: ARWAS  
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AREA	GRADING AND PAVING IMPROVEMENT PLAN DWG NO.
A	NOT USED
B	0C1022
C	0C1023
D	0C1024
E	0C1025
F	0C1026
G	NOT USED
H	0C1027
I	NOT USED
J	0C1028
K	0C1029
L	NOT USED

**LEGEND**

- NEW PAVEMENT FOR WORK ZONE 1
- NEW PAVEMENT FOR WORK ZONE 2
- NEW CONCRETE APRON PAVEMENT FOR WORK ZONE 1
- 7.0- NEW CONTOURS (P2-98A)
- 7.0- EXISTING CONTOURS
- VALLEY GUTTER
- PIPE CHASE

**NOT FOR CONSTRUCTION**

DWG: \\c:\p01\Projects\Projects\148649 - P2-98A\6.0 CAD\DWG\2-98A\2-98A-OC1021.dwg USER: ARWIS  
 DATE: Apr 03, 2020 10:38am  
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MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: GUIRGUIS, MICHAEL - 04/2020  
 DRAWN BY: STILES, ERIC -04/2020  
 CHECKED BY: MAY, DAVID - 04/2020  
 LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)

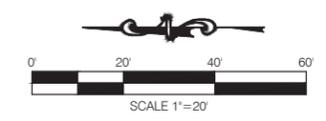


**BLACK & VEATCH**  
 IN ASSOCIATION WITH: **Brown and Caldwell**  
 PN 193173

**ORANGE COUNTY SANITATION DISTRICT**

**A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2**  
**KEY MAP GRADING AND PAVING IMPROVEMENT PLAN**  
 PROJECT NO. **P2-98A**  
 DRAWING NO. **0C1021**  
 OF

GRADING AND PAVING COORDINATE TABLE			
POINT #	TOP OF SURFACE EL	NORTHING	EASTING
1	7.62	2179887.12	6042181.77
2	8.18	2179896.21	6042181.84
3	7.91	2179895.91	6042210.52
4	9.55	2179813.93	6042321.09
5	7.72	2179885.27	6042188.04
6	7.76	2179886.57	6042099.94
7	8.50	2179843.03	6042255.03
8	8.06	2179860.49	6042224.72
9	7.50	2179864.07	6042145.30
10	7.00	2179828.95	6042109.72

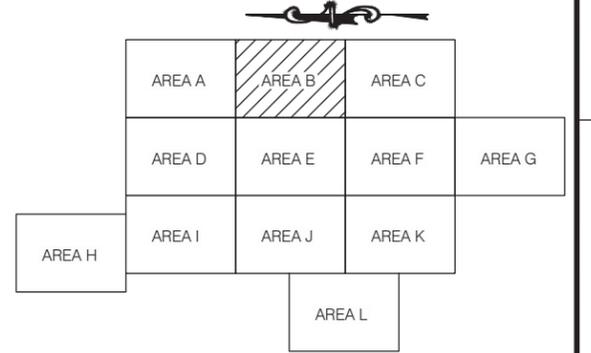


- GENERAL NOTES:**
- SEE 0C1011 FOR BENCHMARK AND BASIS OF BEARING AND COORDINATES.
  - CONTRACTOR SHALL FIELD VERIFY BOLLARD LOCATIONS WITH INSPECTOR/ENGINEER.
  - GRADING SHALL SLOPE AWAY FROM ALL EXISTING AND PROPOSED STRUCTURES AND TUNNELS, TANKS, VAULTS, ACCESS LIDS, AND UTILITY CORRIDORS UNLESS OTHERWISE SHOWN.
  - SEE DWG 1S1001 THROUGH 2S3002 FOR STRUCTURE FINISHED FLOOR ELEVATION.
  - SEE 0C1041 THROUGH 0C1047 FOR DRAINAGE IMPROVEMENTS.

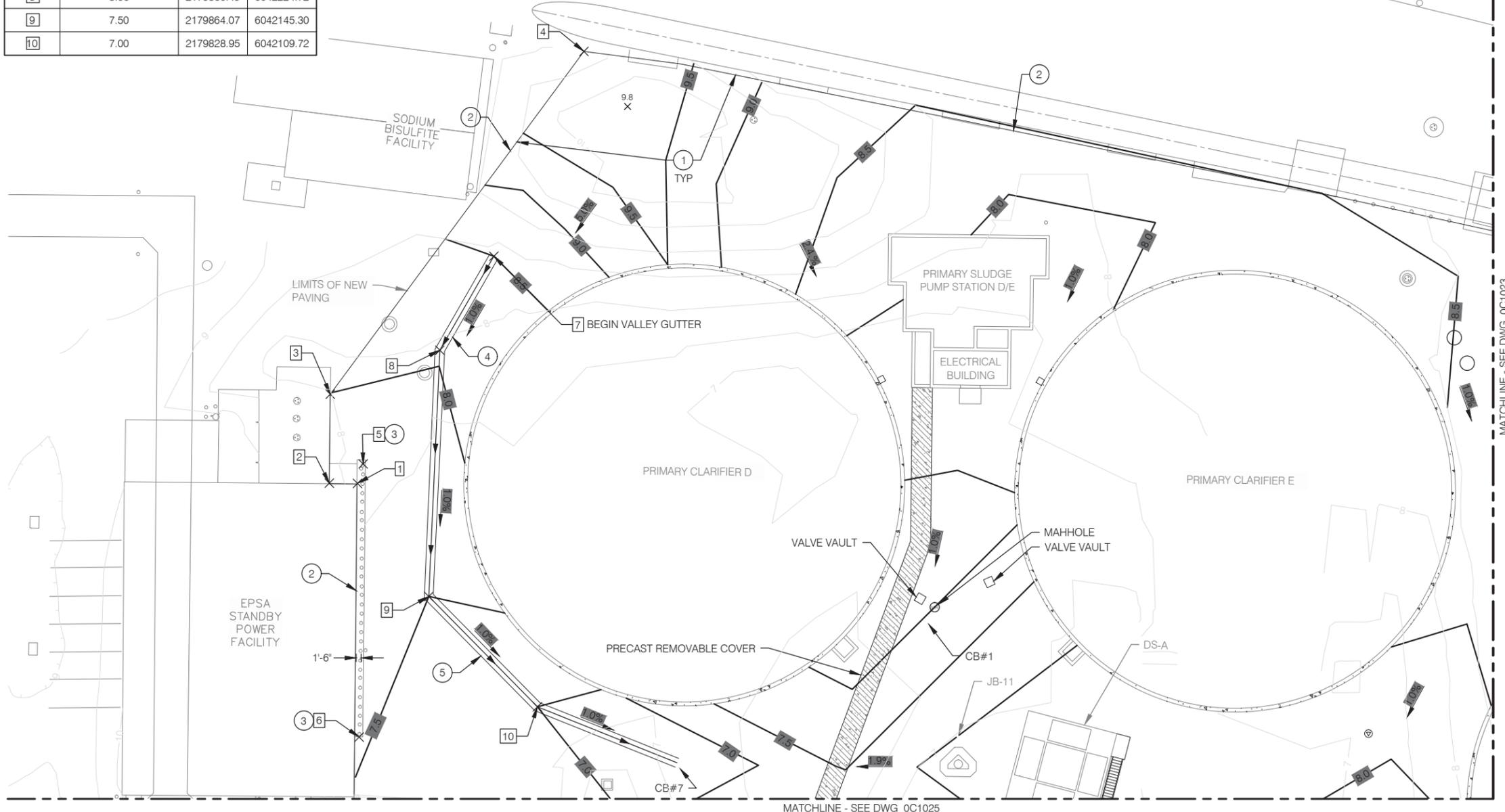
- KEY NOTES:**
- ASPHALT CONCRETE PAVING OVER AGGREGATE BASE PER DETAIL 1/DWG 0C5004.
  - CONTRACTOR SHALL MATCH PROPOSED PAVEMENT ELEVATION TO EXISTING PAVEMENT.
  - REPLACE EXISTING BOLLARDS PER STANDARD DETAIL S-120/DWG 0C5002 FOR PERMANENT BOLLARD. INSTALL NEW BOLLARDS 5' ON CENTER BETWEEN COORDINATES SHOWN HEREIN.
  - CONCRETE VALLEY GUTTER PER DETAIL 3/DWG 0C5004.

- LEGEND**
- NEW PAVEMENT FOR WORK ZONE 1
  - NEW PAVEMENT FOR WORK ZONE 2
  - 7.0- NEW CONTOURS (P2-98A)
  - 7.0- EXISTING CONTOURS
  - VALLEY GUTTER
  - PRECAST REMOVABLE COVER

**PLANT NO. 2 AREA KEY MAP**



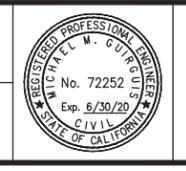
**NOT FOR CONSTRUCTION**



DWG: \\bcr\p01\Projects\Projects\148649 - P2-98A\6.0 CAD\DWG\2-98A\2-98A\01\022.dwg  
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MARK	DESCRIPTION	DATE	APPR.

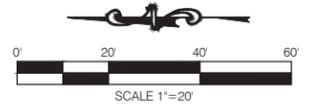
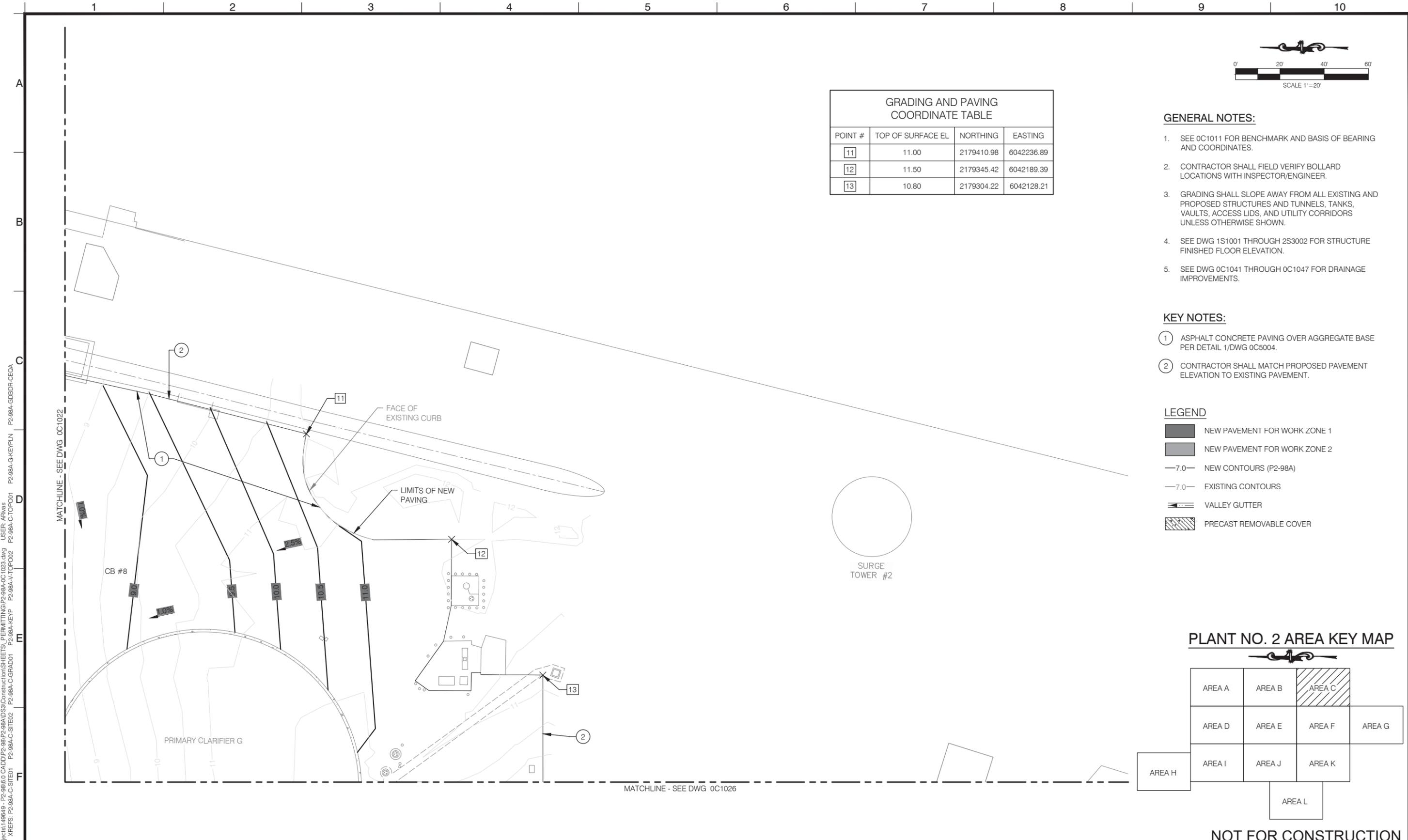
DESIGNED BY: GUIRGUIS, MICHAEL - 04/2020  
 DRAWN BY: STILES, ERIC -04/2020  
 CHECKED BY: MAY, DAVID -04/2020  
 LINE IS 2 INCHES AT FULL SIZE (IF NOT 2"-SCALE ACCORDINGLY)



**BLACK & VEATCH**  
 IN ASSOCIATION WITH: **Brown & Caldwell**  
 PN 193173

**ORANGE COUNTY SANITATION DISTRICT**

A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2  
**AREA B GRADING AND PAVING IMPROVEMENT PLAN**  
 PROJECT NO. P2-98A  
 DRAWING NO. 0C1022  
 OF



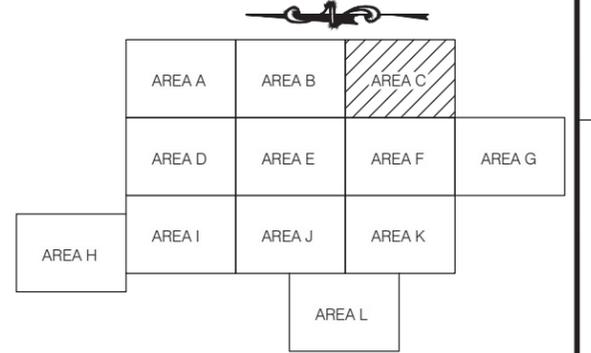
GRADING AND PAVING COORDINATE TABLE			
POINT #	TOP OF SURFACE EL	NORTHING	EASTING
11	11.00	2179410.98	6042236.89
12	11.50	2179345.42	6042189.39
13	10.80	2179304.22	6042128.21

- GENERAL NOTES:**
- SEE 0C1011 FOR BENCHMARK AND BASIS OF BEARING AND COORDINATES.
  - CONTRACTOR SHALL FIELD VERIFY BOLLARD LOCATIONS WITH INSPECTOR/ENGINEER.
  - GRADING SHALL SLOPE AWAY FROM ALL EXISTING AND PROPOSED STRUCTURES AND TUNNELS, TANKS, VAULTS, ACCESS LIDS, AND UTILITY CORRIDORS UNLESS OTHERWISE SHOWN.
  - SEE DWG 1S1001 THROUGH 2S3002 FOR STRUCTURE FINISHED FLOOR ELEVATION.
  - SEE DWG 0C1041 THROUGH 0C1047 FOR DRAINAGE IMPROVEMENTS.

- KEY NOTES:**
- ASPHALT CONCRETE PAVING OVER AGGREGATE BASE PER DETAIL 1/DWG 0C5004.
  - CONTRACTOR SHALL MATCH PROPOSED PAVEMENT ELEVATION TO EXISTING PAVEMENT.

- LEGEND**
- NEW PAVEMENT FOR WORK ZONE 1
  - NEW PAVEMENT FOR WORK ZONE 2
  - 7.0- NEW CONTOURS (P2-98A)
  - 7.0- EXISTING CONTOURS
  - VALLEY GUTTER
  - PRECAST REMOVABLE COVER

**PLANT NO. 2 AREA KEY MAP**

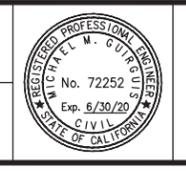


**NOT FOR CONSTRUCTION**

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: GUIRGUIS, MICHAEL - 04/2020  
 DRAWN BY: STILES, ERIC - 04/2020  
 CHECKED BY: MAY, DAVID - 04/2020

LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)



**BLACK & VEATCH**  
 IN ASSOCIATION WITH: **Brown and Caldwell**

PN 193173

**ORANGE COUNTY SANITATION DISTRICT**

A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2

**AREA C GRADING AND PAVING IMPROVEMENT PLAN**

PROJECT NO. P2-98A  
 DRAWING NO. 0C1023  
 OF

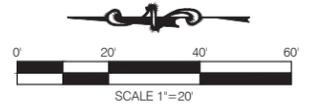
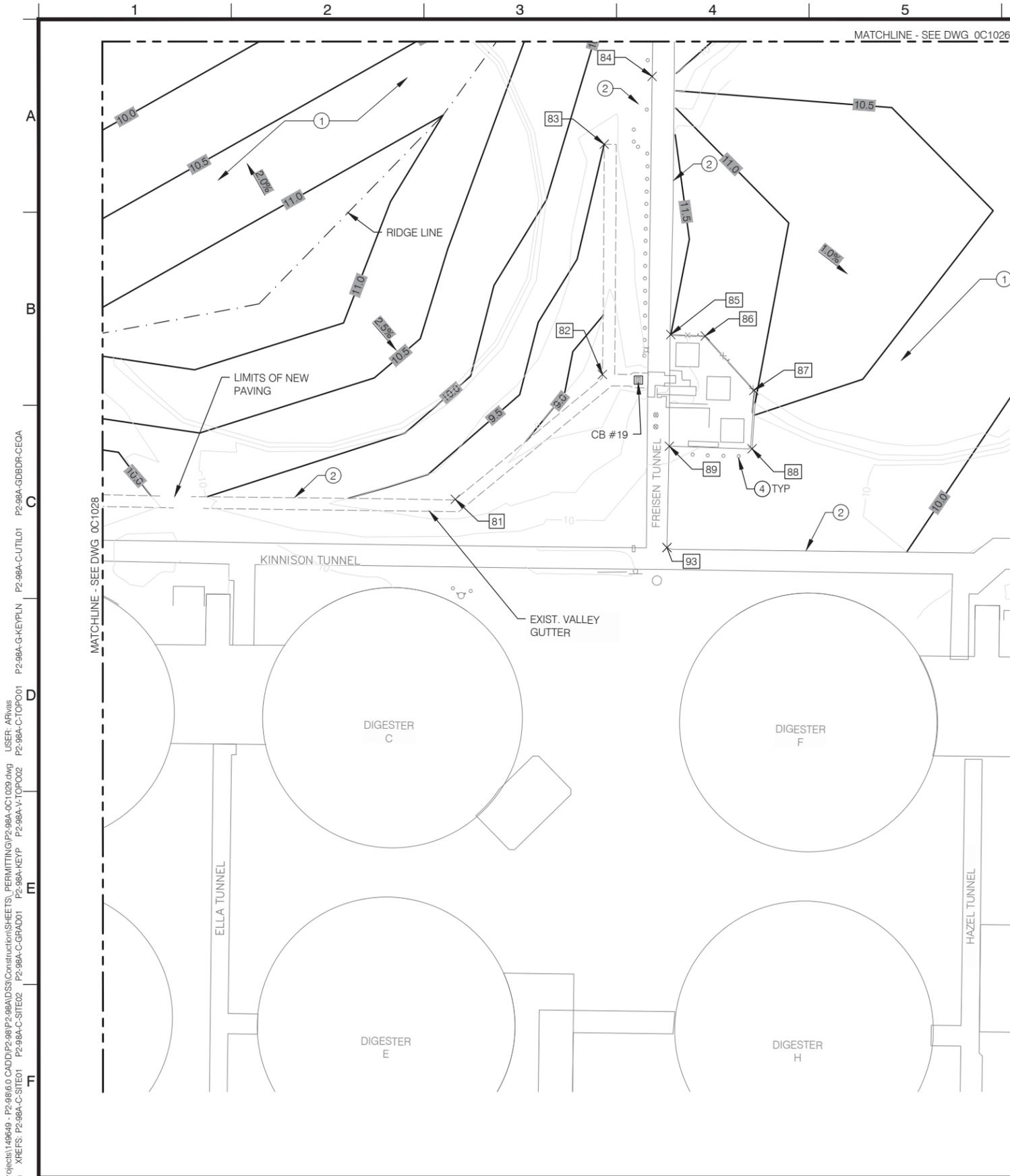
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 DATE: Apr 03, 2020 11:07am  
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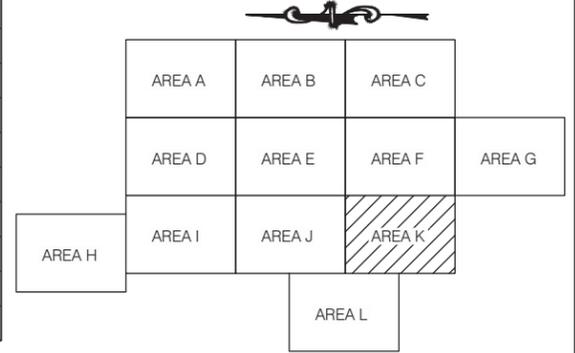
- GENERAL NOTES:**
- SEE 0C1011 FOR BENCHMARK AND BASIS OF BEARING AND COORDINATES.
  - CONTRACTOR SHALL FIELD VERIFY BOLLARD LOCATIONS WITH INSPECTOR/ENGINEER.
  - GRADING SHALL SLOPE AWAY FROM ALL EXISTING AND PROPOSED STRUCTURES AND TUNNELS, TANKS, VAULTS, ACCESS LIDS, AND UTILITY CORRIDORS UNLESS OTHERWISE SHOWN.
  - SEE DWG 1S1001 THROUGH 2S3002 FOR STRUCTURE FINISHED FLOOR ELEVATION.
  - SEE DWG 0C1041 THROUGH 0C1047 FOR DRAINAGE IMPROVEMENTS.

- KEY NOTES:**
- ASPHALT CONCRETE PAVING OVER AGGREGATE BASE PER DETAIL 1/DWG 0C5004.
  - CONTRACTOR SHALL MATCH PROPOSED PAVEMENT ELEVATION TO EXISTING PAVEMENT.
  - REPLACE EXISTING BOLLARDS PER STANDARD DETAIL S-120/DWG 0C5002 FOR PERMANENT BOLLARD. INSTALL NEW BOLLARDS 5' ON CENTER BETWEEN COORDINATES SHOWN HEREIN.

GRADING AND PAVING COORDINATE TABLE			
POINT #	TOP OF SURFACE EL	NORTHING	EASTING
79	9.50	2179154.68	6041612.38
80	9.45	2179183.52	6041578.77
81	9.22	2179405.69	6041591.85
82	6.97	2179357.93	6041632.26
83	6.97	2179357.35	6041706.76
84	9.77	2179341.81	6041728.71
85	11.50	2179335.74	6041645.19
86	11.74	2179324.59	6041644.72
87	11.47	2179308.79	6041627.08
88	10.30	2179309.40	6041608.18
89	10.38	2179336.21	6041609.03
90	9.54	2179160.33	6041630.01
91	9.65	2179162.86	6041657.86
92	10.00	2179161.93	6041733.80
93	10.22	2179337.00	6041576.22
94	10.00	2179158.11	6041731.15
95	9.69	2179158.82	6041658.68
96	9.97	2179141.02	6041651.14
97	9.68	2179141.01	6041645.13
98	9.80	2179140.96	6041628.38

- LEGEND**
- NEW PAVEMENT FOR WORK ZONE 1
  - NEW PAVEMENT FOR WORK ZONE 2
  - 7.0- NEW CONTOURS (P2-98A)
  - 7.0- EXISTING CONTOURS
  - VALLEY GUTTER
  - PRECAST REMOVABLE COVER

**PLANT NO. 2 AREA KEY MAP**

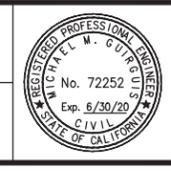


**NOT FOR CONSTRUCTION**

MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: GUIRGUIS, MICHAEL - 04/2020  
 DRAWN BY: STILES, ERIC -04/2020  
 CHECKED BY: MAY, DAVID - 04/2020

LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2"-SCALE ACCORDINGLY)



**BLACK & VEATCH**  
 IN ASSOCIATION WITH: **Brown & Caldwell**

PN 193173

**ORANGE COUNTY SANITATION DISTRICT**

A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2

**AREA K GRADING AND PAVING IMPROVEMENT PLAN**

PROJECT NO. P2-98A  
 DRAWING NO. 0C1029  
 OF

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**\*NOTE: Configuration is similar for Primary Clarifiers D/E Electrical Building.**

**GENERAL NOTES:**

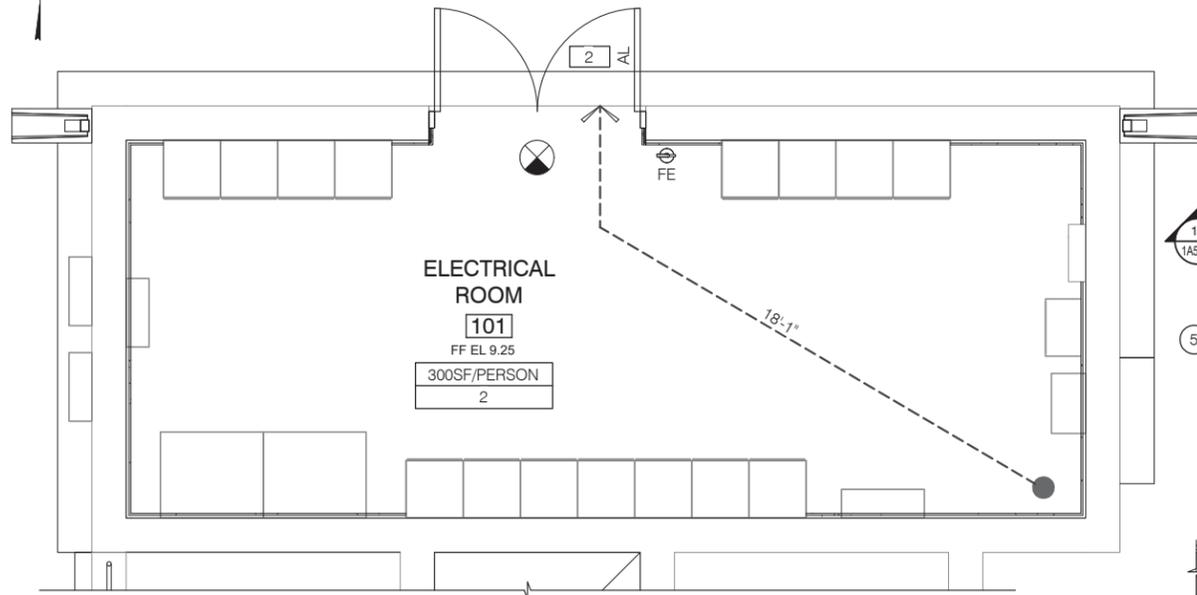
- SEE STRUCTURAL DRAWINGS FOR ALL CAST-IN-PLACE CONCRETE WALL DESIGN INFORMATION.
- ALL DOOR, WINDOW AND LOUVER OPENINGS IN CAST-IN-PLACE CONCRETE WALLS ARE SHOWN AS NOMINAL AND SHALL ALLOW FOR ADDITIONAL 1/2" CLEARANCE TO OPENINGS SHOWN FOR CONCRETE IMPERFECTIONS.

**LIFE SAFETY LEGEND:**

- FIRE EXTINGUISHER (FE)
- TRAVEL DISTANCE
- OCCUPANTS PER SF  
OCCUPANT LOAD
- CUMULATIVE OCCUPANT LOAD
- EXIT

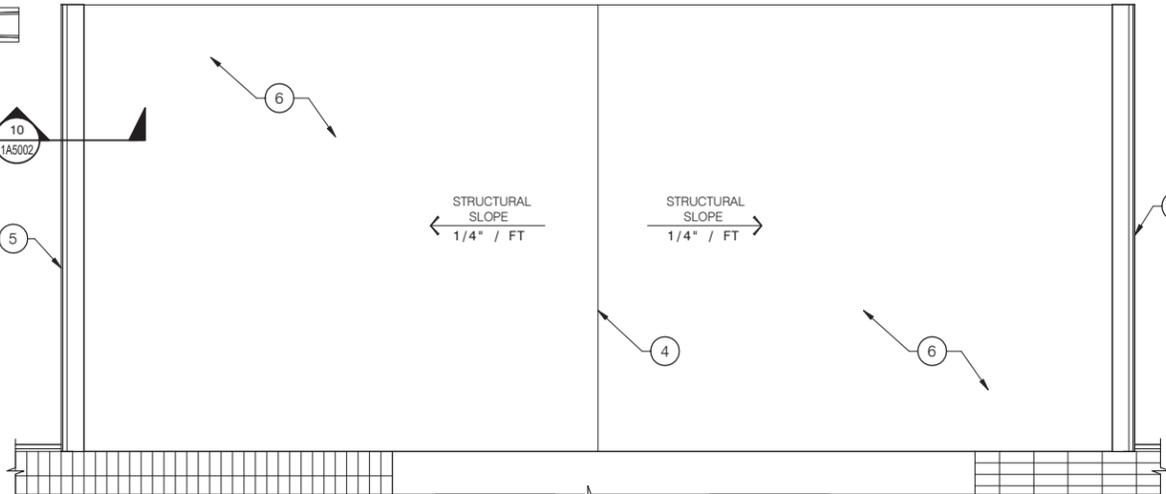
**KEY NOTES:**

- CAST-IN-PLACE CONCRETE WALL, TYP.
- 5/8" HIGH IMPACT RESISTANT GYPSUM BOARD ON Z-CHANNEL WALL FURRING W/ RIGID INSULATION IN WALL CAVITY, TYP.
- PREFINISHED METAL DOWNSPOUT AND CONCRETE SPLASHBLOCK, TYP.
- RIDGE IN CONCRETE ROOF SLAB, SEE STRUCTURAL DRAWINGS.
- PREFINISHED METAL GUTTER, TYP.
- ELASTOMERIC COATING ON CONCRETE ROOF SLAB.



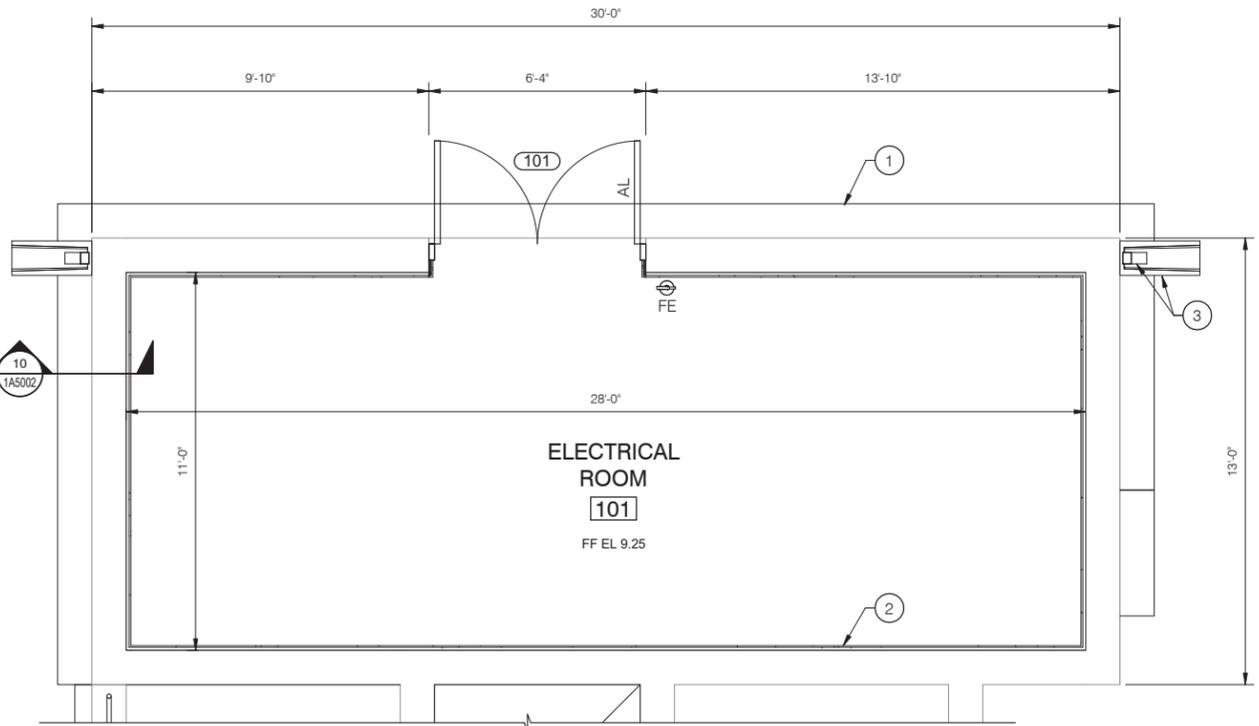
**LIFE SAFETY PLAN**

3/8" = 1'-0"



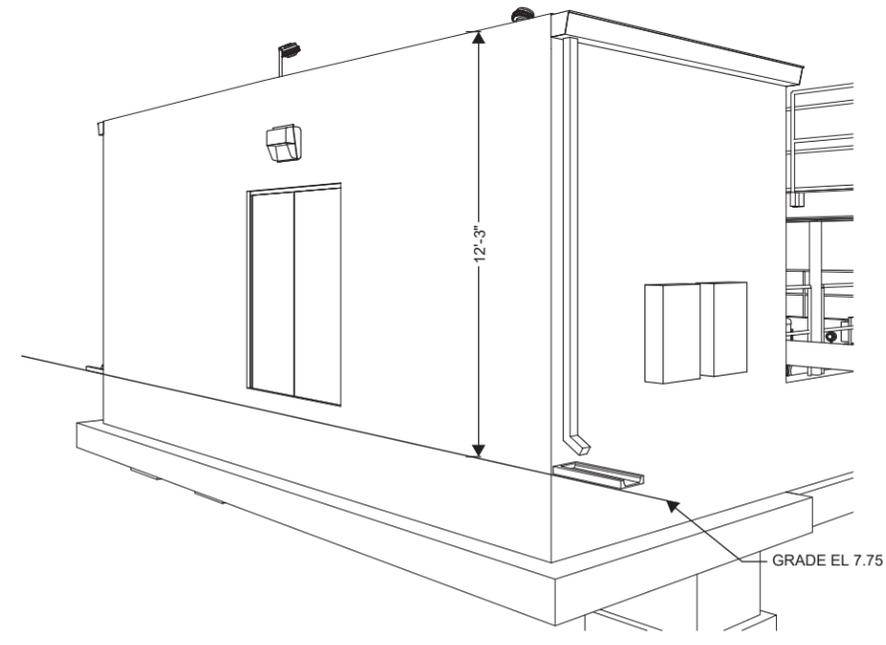
**ROOF PLAN**

3/8" = 1'-0"



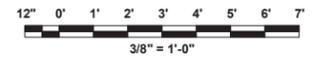
**FLOOR PLAN**

3/8" = 1'-0"



**NORTHWEST PERSPECTIVE**

BUILDING CODE ANALYSIS	
APPLICABLE BUILDING CODES: 2016 CALIFORNIA BUILDING CODE 2016 CALIFORNIA FIRE CODE HUNTINGTON BEACH CITY MUNICIPAL CODES TITLE 17 BUILDING & CONSTRUCTION	
BUILDING NAME: PRIMARY CLARIFIERS F/G - ELECTRICAL BUILDING	
OCCUPANCY TYPE	F-1.9 (CBC SECTION 306)
TYPE OF CONSTRUCTION	II-B (CBC TABLE 601)
ACTUAL FLOOR AREA	390.00 SF TOTAL
ACTUAL HEIGHT	1 STORY (10.00 FT)
ALLOWABLE AREA	15,500 SF (CBC TABLE 506.2)
ALLOWABLE HEIGHT	2 STORIES (55 FT) (CBC TABLE 504.3 & 504.4)
OCCUPANT LOAD	2 PERSONS (SEE NOTE 1)
EXITS	1 EXIT
REQUIRED # OF EXITS	1 EXIT (CBC TABLE 1006.2.1)
ADA ACCESSIBILITY	NO (SEE NOTE 2)
OCCUPANCY SEPARATION	NO (SEE NOTE 3)
FIRE SPRINKLERS	NO (SEE NOTE 3)
NOTE 1: PER CBC TABLE 1004.1.2 ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM.	
NOTE 2: NOT REQUIRED PER CBC EXCEPTION 1103.2.9 EQUIPMENT SPACES.	
NOTE 3: NOT REQUIRED PER CITY MUNICIPAL CODE TITLE 17, CHAPTER 17.56, 17.56.320 CFC SECTION 903.2.4 GROUP F, AMENDED.	



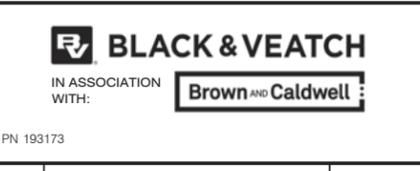
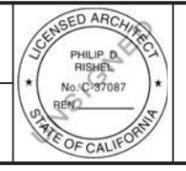
**NOT FOR CONSTRUCTION**

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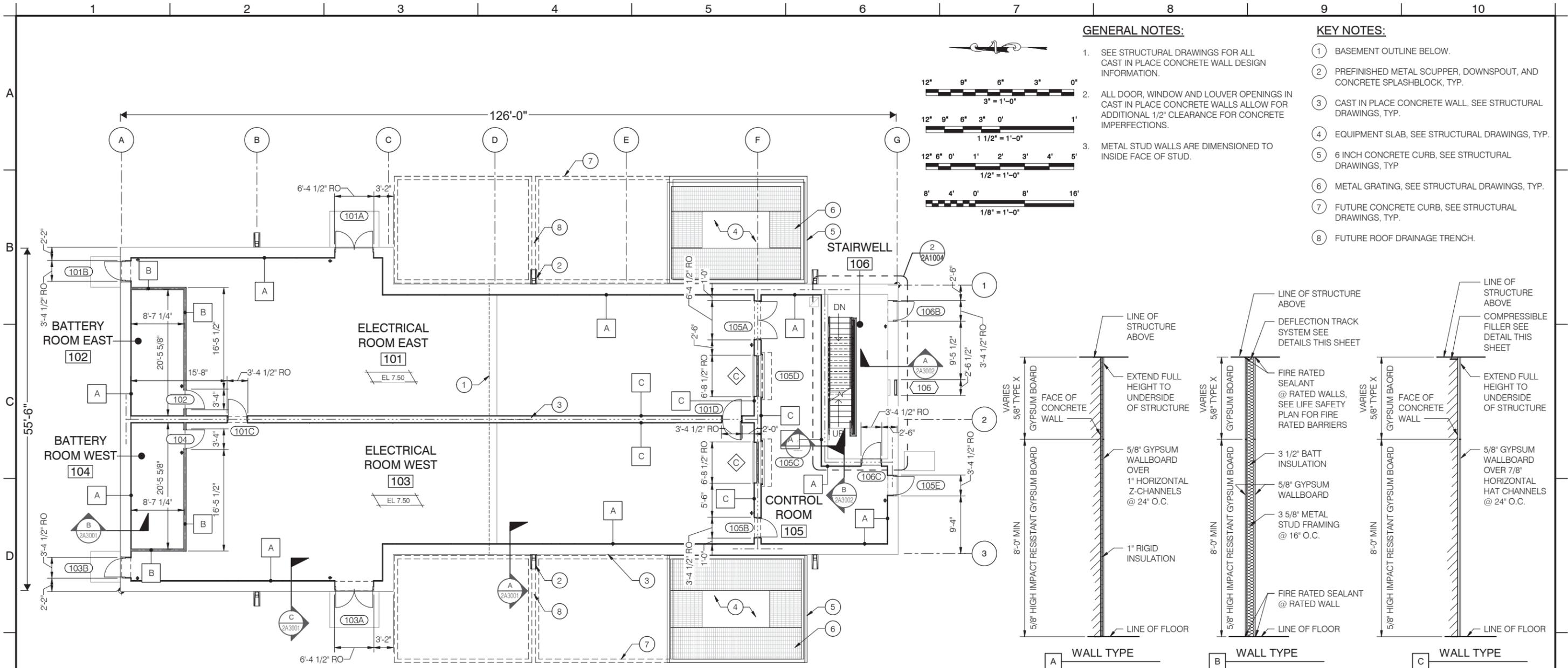
MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: PODOLSKY, RYAN - 10/2019  
 DRAWN BY: BAJPEYI, RAJEEV - 10/2019  
 CHECKED BY: RISHEL, PHILIP - 10/2019

LINE IS 2 INCHES AT FULL SIZE  
 (IF NOT 2"-SCALE ACCORDINGLY)



A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2	PROJECT NO. P2-98A
PRIMARY CLARIFIERS F/G ELECTRICAL BUILDING PLANS & PERSPECTIVE	DRAWING NO. 1A1002
	OF

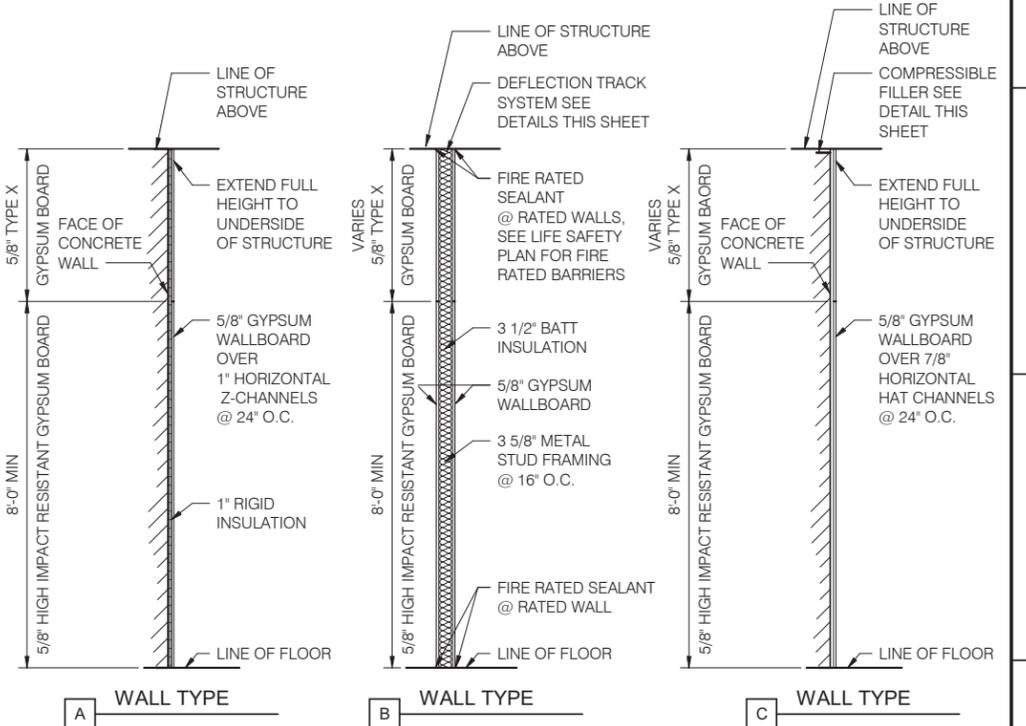
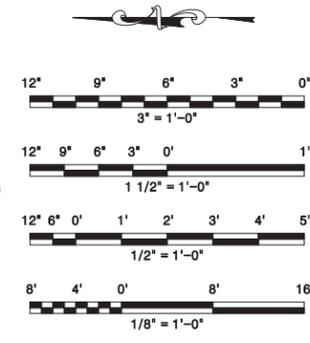


**GENERAL NOTES:**

- SEE STRUCTURAL DRAWINGS FOR ALL CAST IN PLACE CONCRETE WALL DESIGN INFORMATION.
- ALL DOOR, WINDOW AND LOUVER OPENINGS IN CAST IN PLACE CONCRETE WALLS ALLOW FOR ADDITIONAL 1/2" CLEARANCE FOR CONCRETE IMPERFECTIONS.
- METAL STUD WALLS ARE DIMENSIONED TO INSIDE FACE OF STUD.

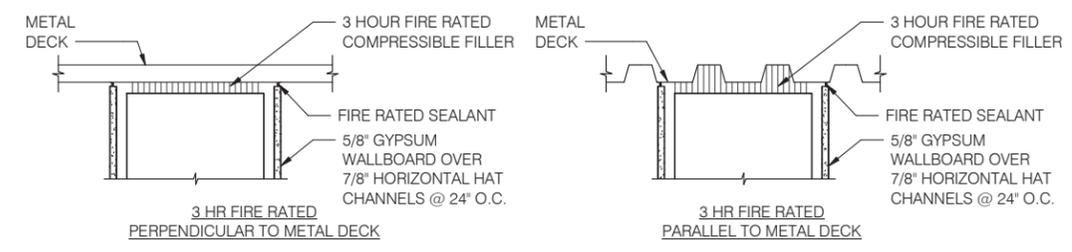
**KEY NOTES:**

- BASEMENT OUTLINE BELOW.
- PREFINISHED METAL SCUPPER, DOWNSPOUT, AND CONCRETE SPLASHBLOCK, TYP.
- CAST IN PLACE CONCRETE WALL, SEE STRUCTURAL DRAWINGS, TYP.
- EQUIPMENT SLAB, SEE STRUCTURAL DRAWINGS, TYP.
- 6 INCH CONCRETE CURB, SEE STRUCTURAL DRAWINGS, TYP.
- METAL GRATING, SEE STRUCTURAL DRAWINGS, TYP.
- FUTURE CONCRETE CURB, SEE STRUCTURAL DRAWINGS, TYP.
- FUTURE ROOF DRAINAGE TRENCH.

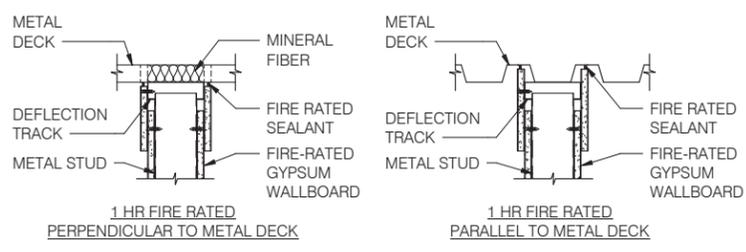


**OPERATING LEVEL - FLOOR PLAN**  
1/8" = 1'-0"

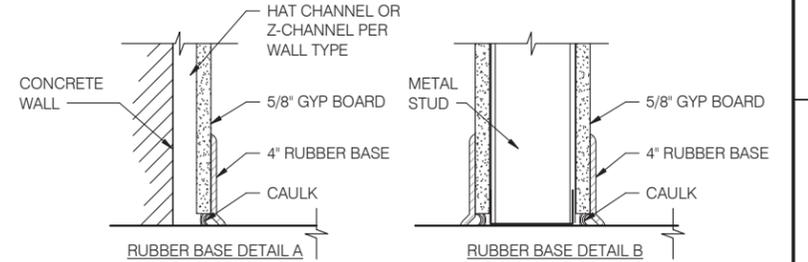
**WALL TYPES**  
1/2" = 1'-0"



**TOP OF CONCRETE WALL**  
1 1/2" = 1'-0"



**DEFLECTION TRACK SYSTEM**  
1 1/2" = 1'-0"



**WALL BASE CONDITION**  
3" = 1'-0"

**NOT FOR CONSTRUCTION**

FILE: P2-98A-2A-BIM11\_detailed.rvt  
DATE: 3/2/2020 4:24 AM

MARK	DESCRIPTION	DATE	APPR

DESIGNED BY: PODOLSKY, RYAN - 04/2020  
 DRAWN BY: HICKMAN, SARAH - 04/2020  
 CHECKED BY: RISHEL, PHILIP - 04/2020

LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" SCALE ACCORDINGLY)



**BLACK & VEATCH**  
 IN ASSOCIATION WITH:  
**Brown and Caldwell**

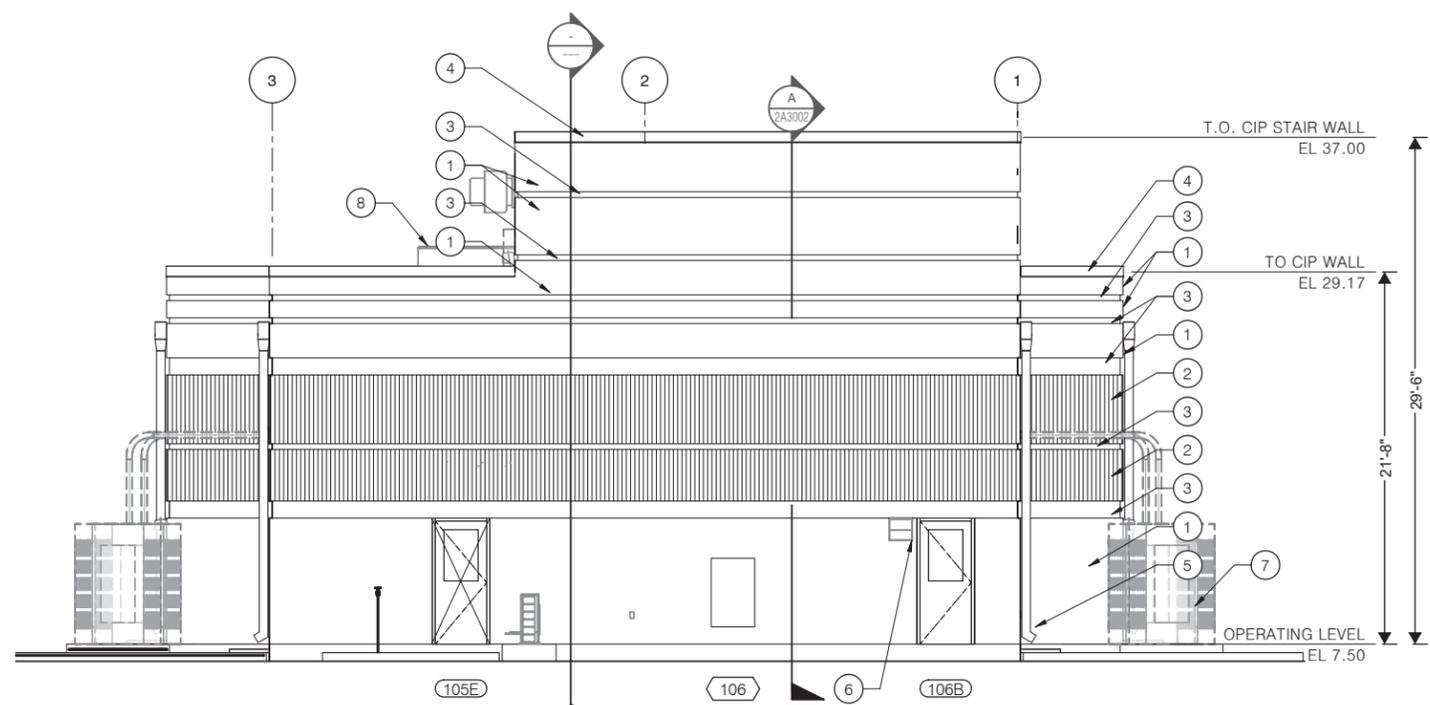
PN 193173

**ORANGE COUNTY SANITATION DISTRICT**

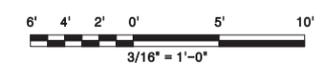
A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2  
**DISTRIBUTION CENTER F OPERATING LEVEL FLOOR PLAN**

PROJECT NO. **P2-98A**  
 DRAWING NO. **2A1002**  
 OF

A  
B  
C  
D  
E  
F

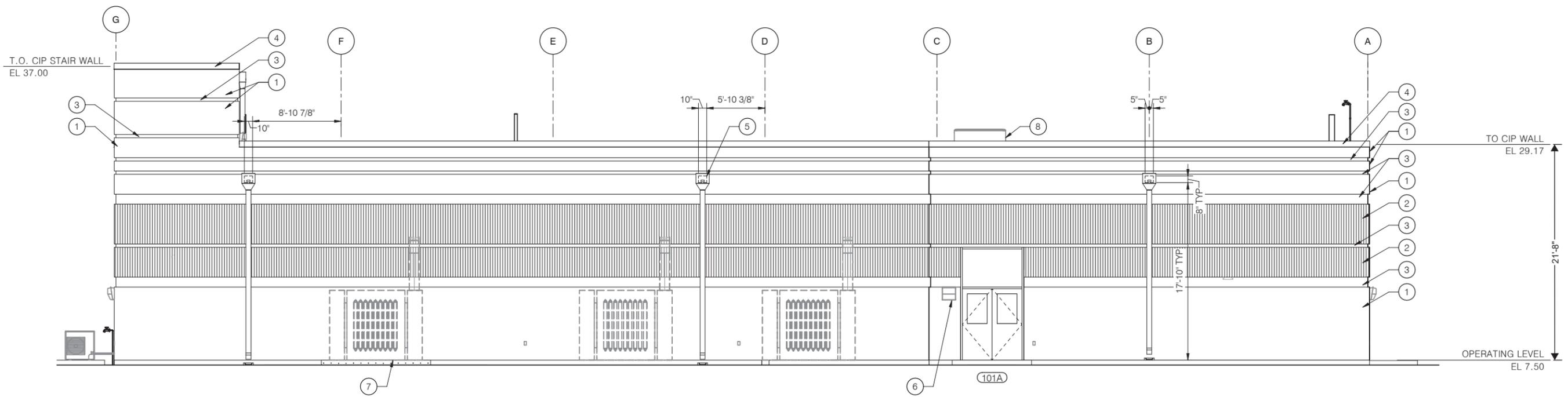


**SOUTH ELEVATION**  
3/16" = 1'-0"



- GENERAL NOTES:**
- SEE STRUCTURAL DRAWINGS FOR ALL CAST IN PLACE CONCRETE WALL DESIGN INFORMATION.
  - ALL DOOR, WINDOW AND LOUVER OPENINGS IN CAST IN PLACE CONCRETE WALLS ARE SHOWN AS NOMINAL AND SHALL ALLOW FOR ADDITIONAL 1/2" CLEARANCE TO OPENINGS SHOWN FOR CONCRETE IMPERFECTIONS.

- KEY NOTES:**
- SMOOTH CAST IN PLACE CONCRETE WALL.
  - RIBBED FLUTING CAST IN PLACE CONCRETE ACCENT BAND, SEE DETAIL 7/2A5004, SEE STRUCTURAL DRAWINGS, TYP.
  - WALL ACCENT REVEAL TYP.
  - PREFINISHED METAL COPING.
  - PREFINISHED METAL SCUPPER AND DOWNSPOUT, TYP.
  - LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
  - ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS.
  - HVAC EQUIPMENT, SEE HVAC DRAWINGS.



**EAST ELEVATION**  
3/16" = 1'-0"

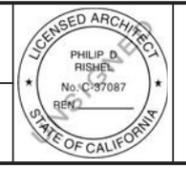
**NOT FOR CONSTRUCTION**

FILE: P2-98A-2A-BIM11\_d.ctb  
DATE: 3/2/2020 4:23:43 AM

MARK	DESCRIPTION	DATE	APPR

DESIGNED BY: PODOLSKY, RYAN - 04/2020  
 DRAWN BY: HICKMAN, SARAH - 04/2020  
 CHECKED BY: RISHEL, PHILIP - 04/2020

LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2"-SCALE ACCORDINGLY)



**BLACK & VEATCH**  
 IN ASSOCIATION WITH:  
**Brown and Caldwell**

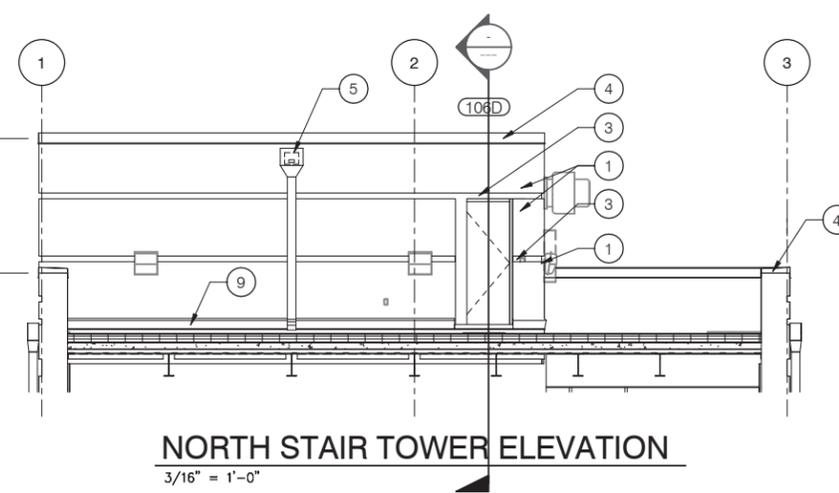
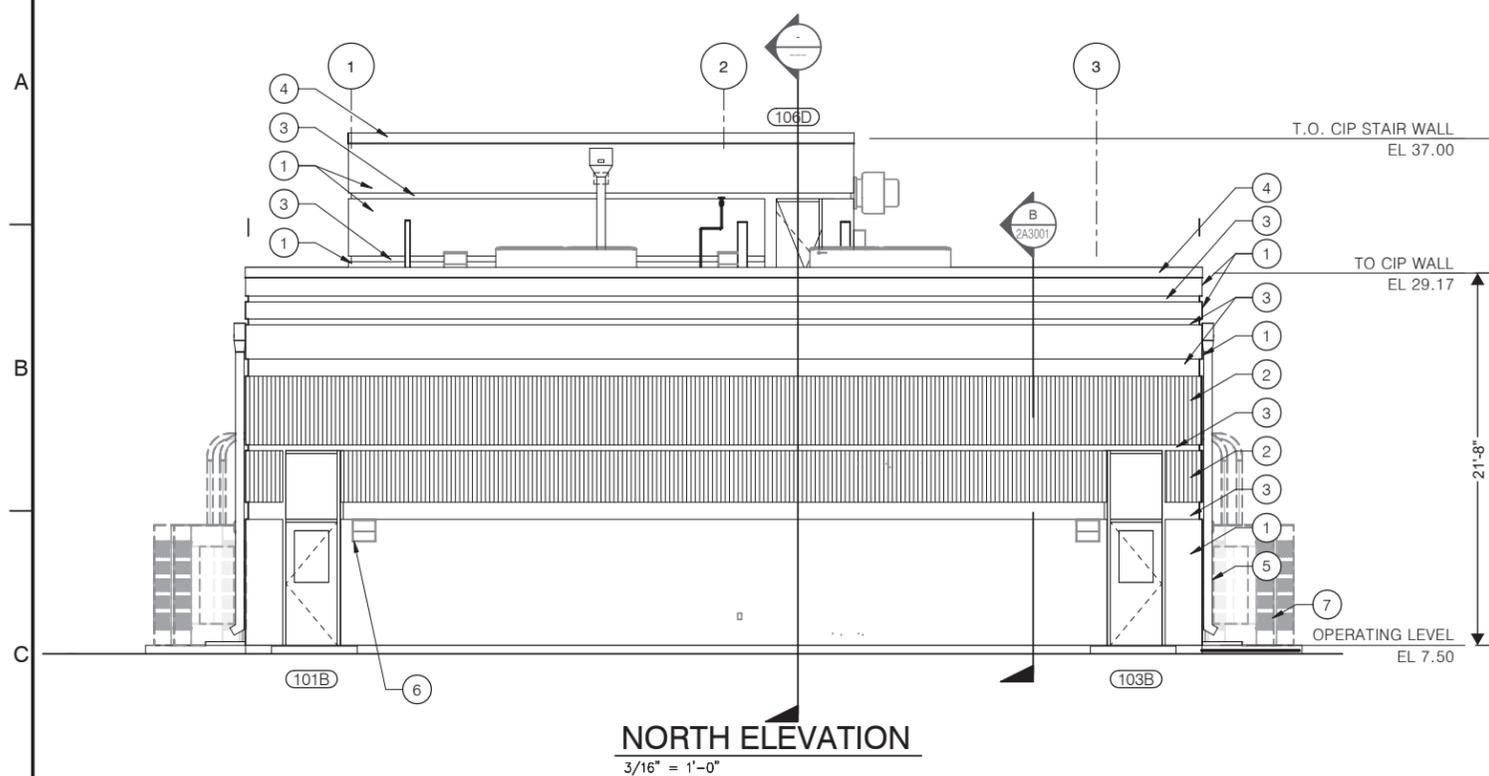
PN 193173

**ORANGE COUNTY SANITATION DISTRICT**

A-SIDE PRIMARY CLARIFIERS REPLACEMENT  
 AT PLANT 2

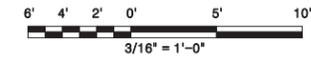
**DISTRIBUTION CENTER F  
 BUILDING ELEVATIONS (1 OF 2)**

PROJECT NO. **P2-98A**  
 DRAWING NO. **2A2001**  
 OF



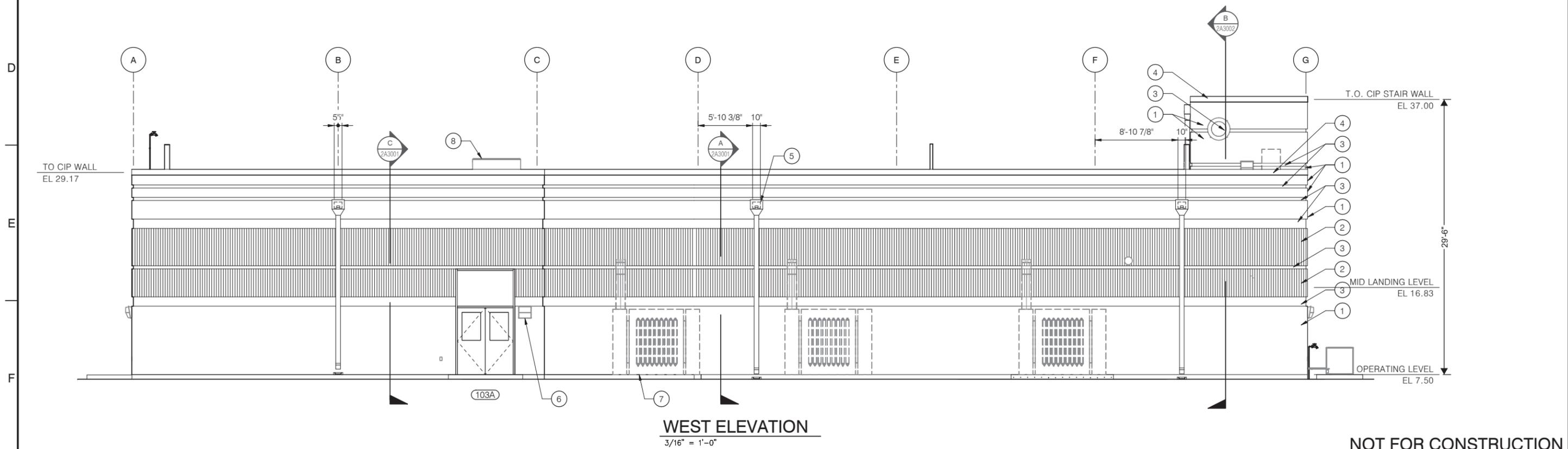
- GENERAL NOTES:**
- SEE STRUCTURAL DRAWINGS FOR ALL CAST IN PLACE CONCRETE WALL DESIGN INFORMATION.
  - ALL DOOR, WINDOW AND LOUVER OPENINGS IN CAST IN PLACE CONCRETE WALLS ARE SHOWN AS NOMINAL AND SHALL ALLOW FOR ADDITIONAL 1/2" CLEARANCE TO OPENINGS SHOWN FOR CONCRETE IMPERFECTIONS.

- KEY NOTES:**
- SMOOTH CAST IN PLACE CONCRETE WALL.
  - RIBBED FLUTING CAST IN PLACE CONCRETE ACCENT BAND, SEE DETAIL 7/2A5004, SEE STRUCTURAL DRAWINGS, TYP.
  - WALL ACCENT REVEAL, TYPICAL.
  - PREFINISHED METAL COPING.
  - PREFINISHED METAL SCUPPER AND DOWNSPOUT, TYP.
  - LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS.
  - ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS.
  - HVAC EQUIPMENT, SEE HVAC DRAWINGS.
  - ROOF COUNTER FLASHING AROUND BASE OF STAIR TOWER.



**NORTH ELEVATION**  
3/16" = 1'-0"

**NORTH STAIR TOWER ELEVATION**  
3/16" = 1'-0"



**WEST ELEVATION**  
3/16" = 1'-0"

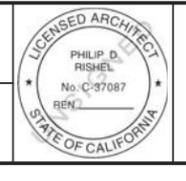
**NOT FOR CONSTRUCTION**

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MARK	DESCRIPTION	DATE	APPR.

DESIGNED BY: PODOLSKY, RYAN - 04/2020  
 DRAWN BY: HICKMAN, SARAH - 04/2020  
 CHECKED BY: RISHEL, PHILIP - 04/2020

LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2"-SCALE ACCORDINGLY)



**BLACK & VEATCH**  
 IN ASSOCIATION WITH:  
**Brown and Caldwell**

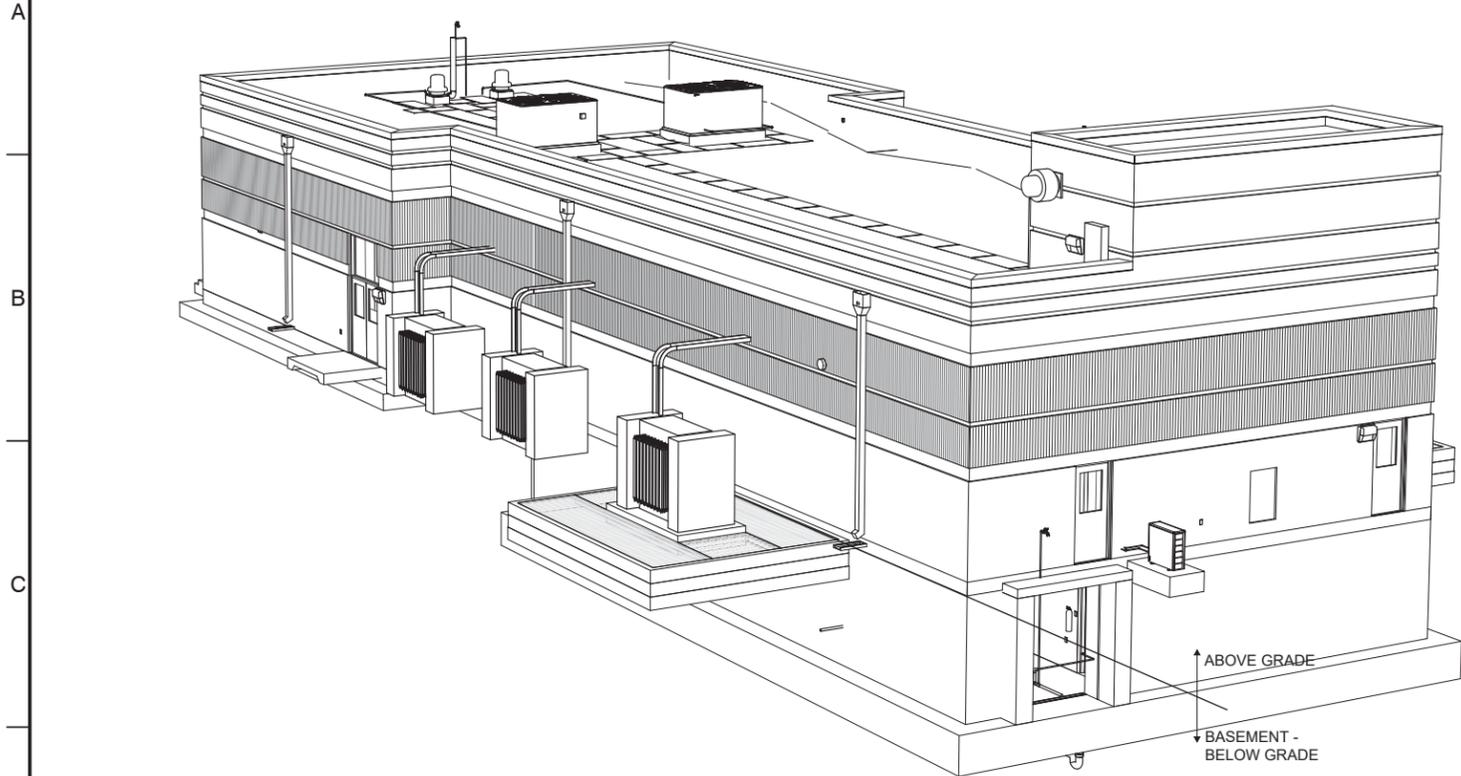
PN 193173

**ORANGE COUNTY SANITATION DISTRICT**

A-SIDE PRIMARY CLARIFIERS REPLACEMENT  
 AT PLANT 2

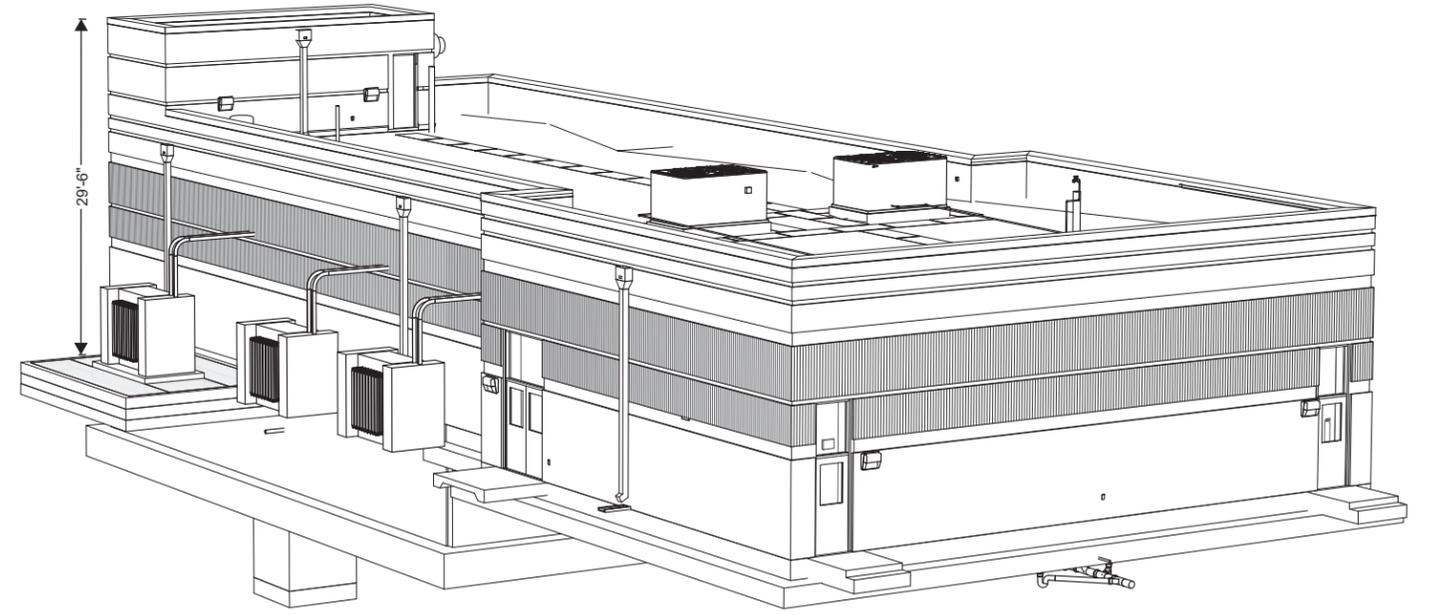
**DISTRIBUTION CENTER F  
 BUILDING ELEVATIONS (2 OF 2)**

PROJECT NO. **P2-98A**  
 DRAWING NO. **2A2002**  
 OF



PERSPECTIVE

↑ ABOVE GRADE  
↓ BASEMENT - BELOW GRADE



PERSPECTIVE

NOT FOR CONSTRUCTION

FILE: P2-98A-2A-BIM11\_d.ctb  
DATE: 3/2/2020 4:23:28 AM

DESIGNED BY: PODOLSKY, RYAN - 04/2020  
DRAWN BY: HICKMAN, SARAH - 04/2020  
CHECKED BY: RISHEL, PHILIP - 04/2020



ORANGE COUNTY  
SANITATION DISTRICT

A-SIDE PRIMARY CLARIFIERS REPLACEMENT  
AT PLANT 2

DISTRIBUTION CENTER F  
PERSPECTIVE

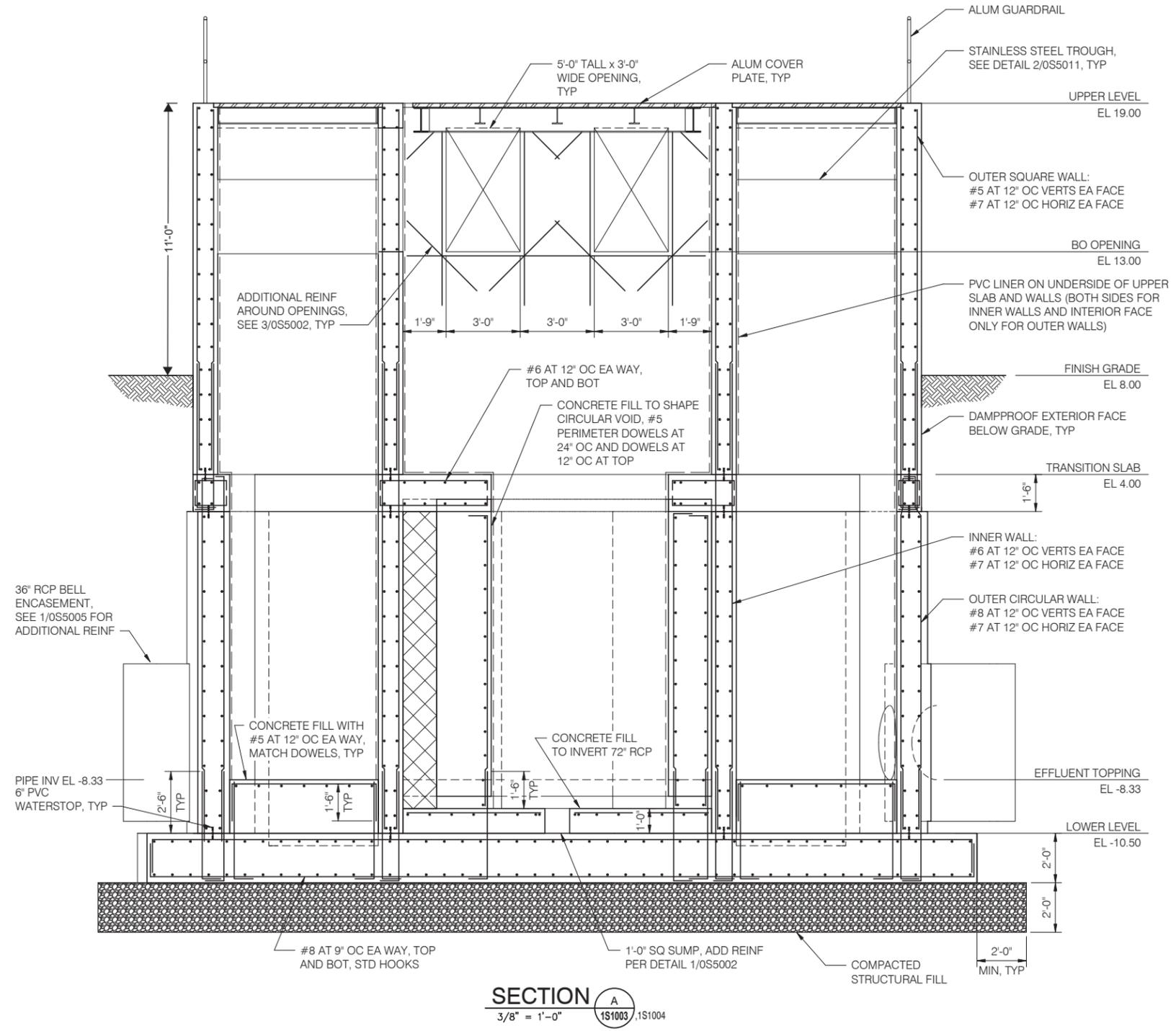
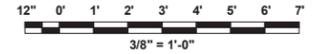
PROJECT NO. P2-98A

DRAWING NO. 2A8001

OF

MARK	DESCRIPTION	DATE	APPR

LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2"-SCALE ACCORDINGLY)



- GENERAL NOTES:**
- CLEAN AND ROUGHEN INTERFACE BEFORE PLACING CONCRETE FILL.
  - PLACEMENT OF CONCRETE FILL SHALL BE LIMITED TO 5'-0" MAXIMUM.

**SECTION A**  
3/8" = 1'-0"  
1S1003 1S1004

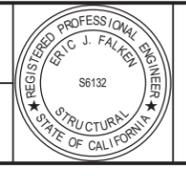
**NOT FOR CONSTRUCTION**

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DATE: 3/2/2020 12:45:50 PM

MARK	DESCRIPTION	DATE	APPR

DESIGNED BY: FALKEN, ERIC - 04/2020  
 DRAWN BY: KINGERY, RANDY - 04/2020  
 CHECKED BY: AUSTIN, RICHARD - 04/2020

LINE IS 2 INCHES AT FULL SIZE  
 (IF NOT 2"-SCALE ACCORDINGLY)



**BLACK & VEATCH**  
 IN ASSOCIATION WITH: **Brown and Caldwell**

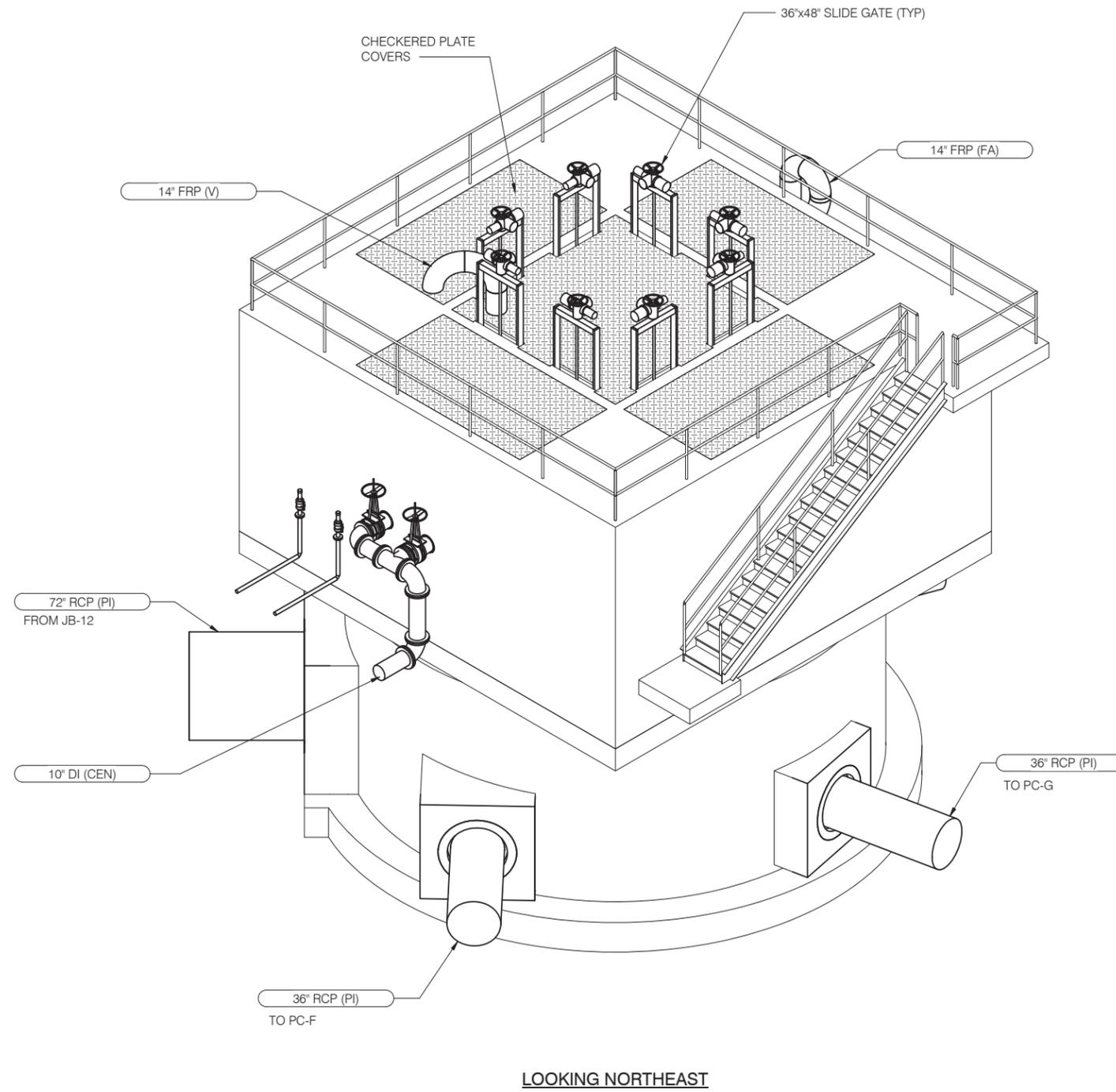
PN 193173

**ORANGE COUNTY SANITATION DISTRICT**

A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2

**DISTRIBUTION STRUCTURE A SECTION (1 OF 2)**

PROJECT NO. P2-98A  
 DRAWING NO. 1S3002  
 OF



LOOKING NORTHEAST

NOT FOR CONSTRUCTION

FILE: P2-98A-1M-BIMD-SA\_detailed.rvt  
DATE: 3/2/2020 5:15:02 PM

DESIGNED BY: CORBIN, JOHN - 04/2020  
DRAWN BY: TIJERO, GERARDO - 04/2020  
CHECKED BY: VOGT, EDWARD - 04/2020



ORANGE COUNTY  
SANITATION DISTRICT

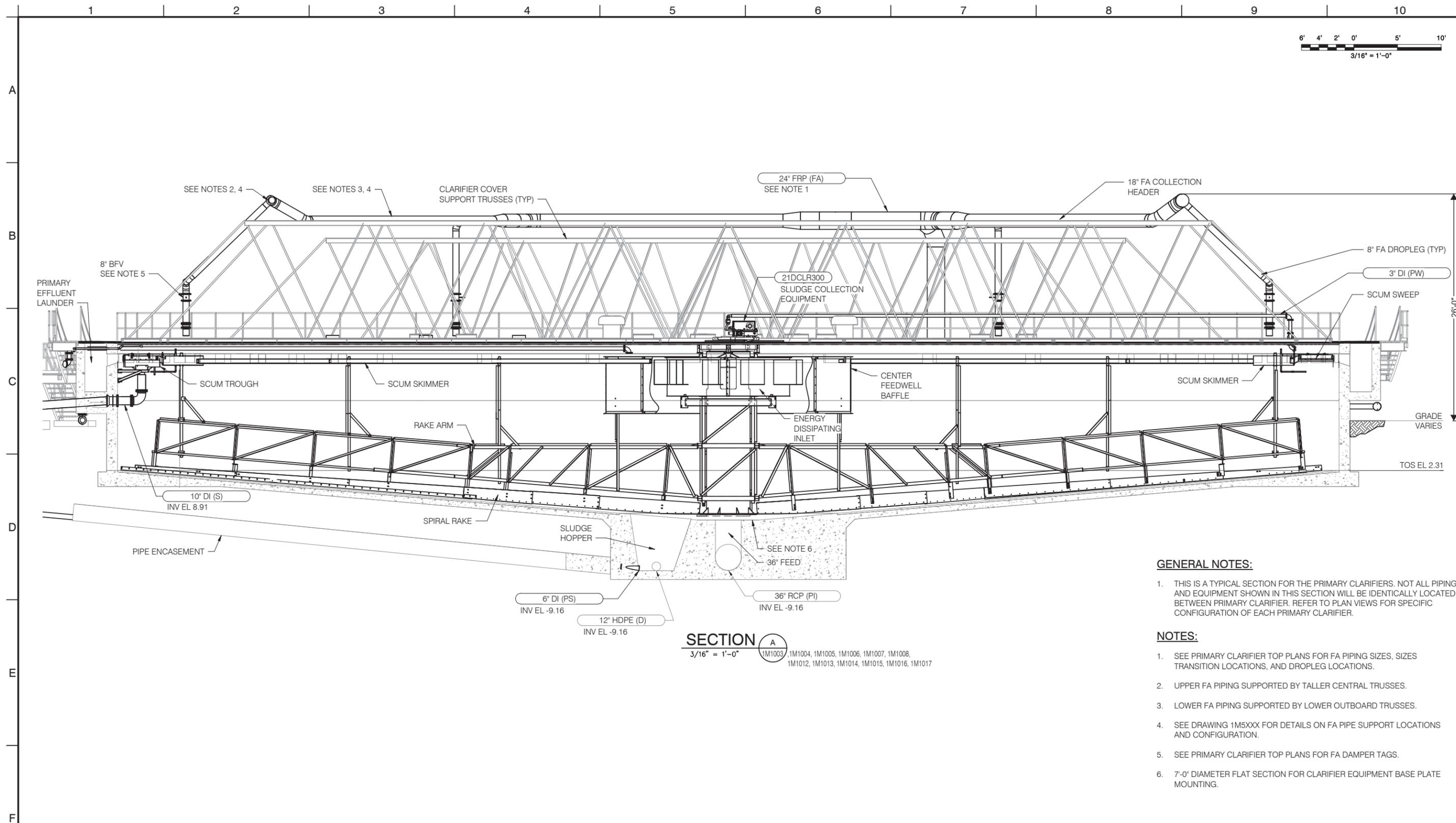
A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2		PROJECT NO. P2-98A
DISTRIBUTION STRUCTURE-A PERSPECTIVE		DRAWING NO. 1M8001
		OF

MARK	DESCRIPTION	DATE	APPR.

LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2"-SCALE ACCORDINGLY)

PN 193173

6' 4' 2' 0' 5' 10'  
3/16" = 1'-0"



**GENERAL NOTES:**

1. THIS IS A TYPICAL SECTION FOR THE PRIMARY CLARIFIERS. NOT ALL PIPING AND EQUIPMENT SHOWN IN THIS SECTION WILL BE IDENTICALLY LOCATED BETWEEN PRIMARY CLARIFIER. REFER TO PLAN VIEWS FOR SPECIFIC CONFIGURATION OF EACH PRIMARY CLARIFIER.

**NOTES:**

1. SEE PRIMARY CLARIFIER TOP PLANS FOR FA PIPING SIZES, SIZES TRANSITION LOCATIONS, AND DROPLEG LOCATIONS.
2. UPPER FA PIPING SUPPORTED BY TALLER CENTRAL TRUSSES.
3. LOWER FA PIPING SUPPORTED BY LOWER OUTBOARD TRUSSES.
4. SEE DRAWING 1M5XXX FOR DETAILS ON FA PIPE SUPPORT LOCATIONS AND CONFIGURATION.
5. SEE PRIMARY CLARIFIER TOP PLANS FOR FA DAMPER TAGS.
6. 7'-0" DIAMETER FLAT SECTION FOR CLARIFIER EQUIPMENT BASE PLATE MOUNTING.

**SECTION A**  
3/16" = 1'-0"  
1M1003, 1M1004, 1M1005, 1M1006, 1M1007, 1M1008, 1M1012, 1M1013, 1M1014, 1M1015, 1M1016, 1M1017

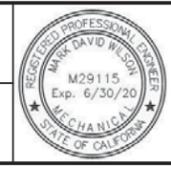
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MARK	DESCRIPTION	DATE	APPR

DESIGNED BY: CORBIN, JOHN - 04/2020  
DRAWN BY: MARTINS, JERRY - 04/2020  
CHECKED BY: VOGT, EDWARD - 04/2020

LINE IS 2 INCHES AT FULL SIZE  
(IF NOT 2"-SCALE ACCORDINGLY)



**BLACK & VEATCH**  
IN ASSOCIATION WITH: **Brown and Caldwell**

PN 193173

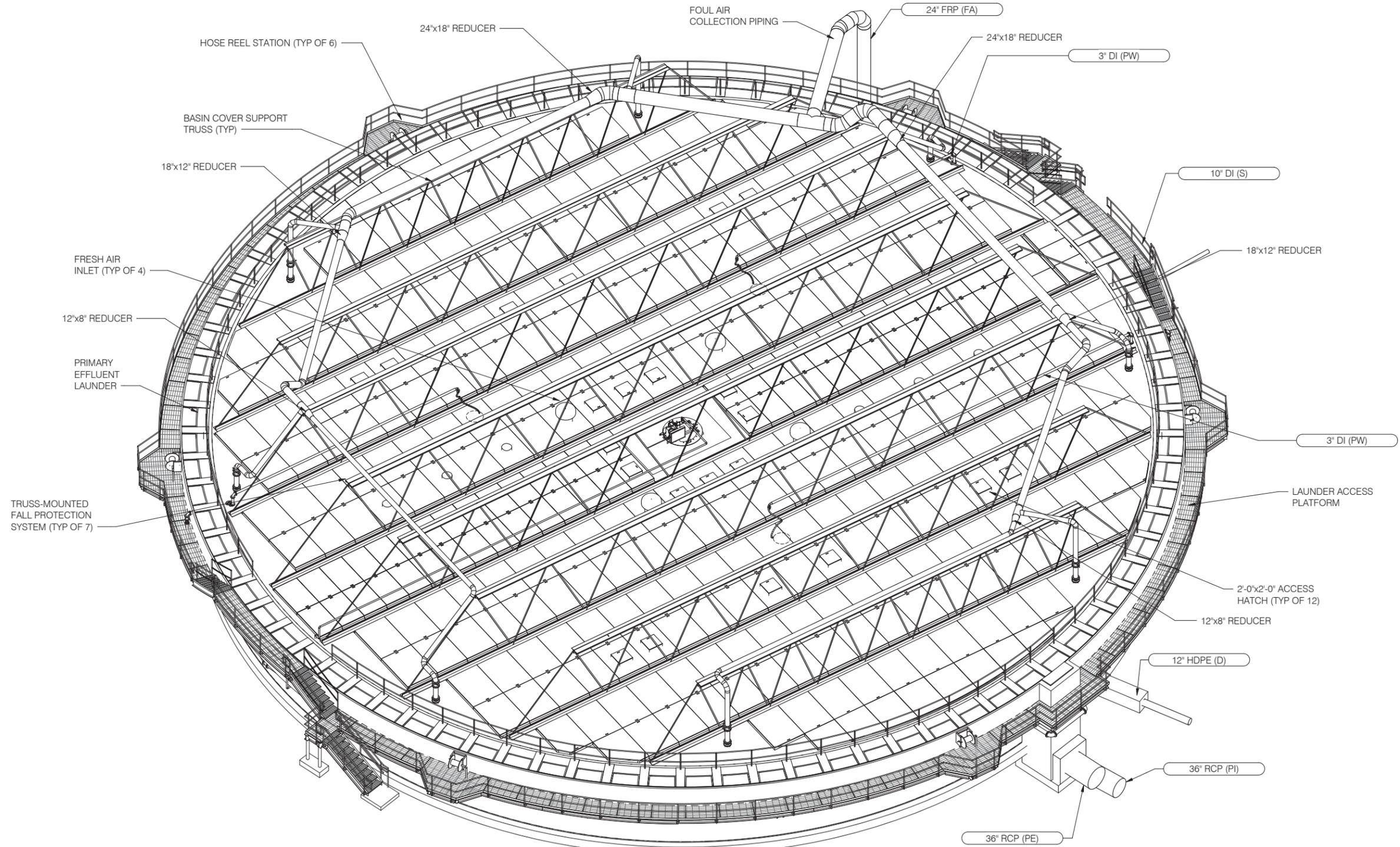
**ORANGE COUNTY SANITATION DISTRICT**

A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2

**PRIMARY CLARIFIER TYPICAL SECTIONS (1 OF 3)**

PROJECT NO. P2-98A  
DRAWING NO. 1M3002

A  
B  
C  
D  
E  
F



LOOKING EAST

NOT FOR CONSTRUCTION

FILE: P2-98A-1M-BIM02\_detailed.rvt  
DATE: 3/2/2020 5:16:59 PM

DESIGNED BY: CORBIN, JOHN - 04/2020  
DRAWN BY: MARTINS, JERRY - 04/2020  
CHECKED BY: VOGT, EDWARD - 04/2020



ORANGE COUNTY  
SANITATION DISTRICT

A-SIDE PRIMARY CLARIFIERS REPLACEMENT  
AT PLANT 2

PRIMARY CLARIFIER D  
COVER PERSPECTIVE

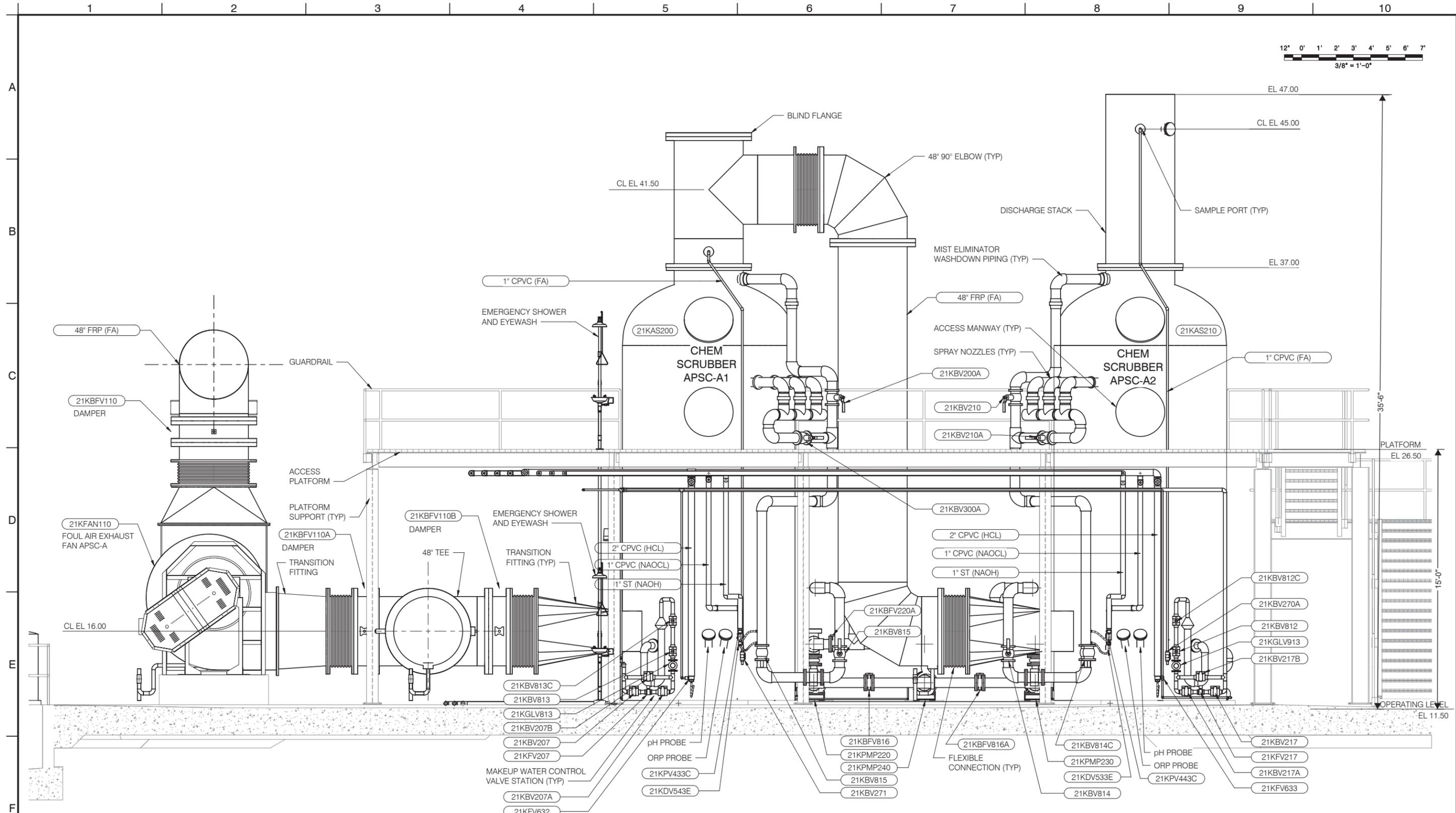
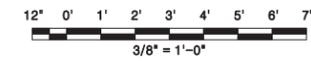
PROJECT NO. P2-98A

DRAWING NO. 1M8004

OF  
Item 4.19

MARK	DESCRIPTION	DATE	APPR

LINE IS 2 INCHES  
AT FULL SIZE  
(IF NOT 2" SCALE ACCORDINGLY)



**SECTION A**  
3/8" = 1'-0" 3M1001, 3M1002, 3M1003

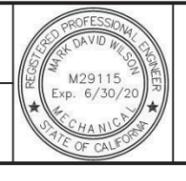
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DATE: 3/2/2020 5:07:50 PM

MARK	DESCRIPTION	DATE	APPR

DESIGNED BY: EDMONDSON, S - 10/2019  
 DRAWN BY: TUJERO, GERARDO - 10/2019  
 CHECKED BY: VOGT, EDWARD - 10/2019

LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)



**BLACK & VEATCH**  
 IN ASSOCIATION WITH: **Brown and Caldwell**

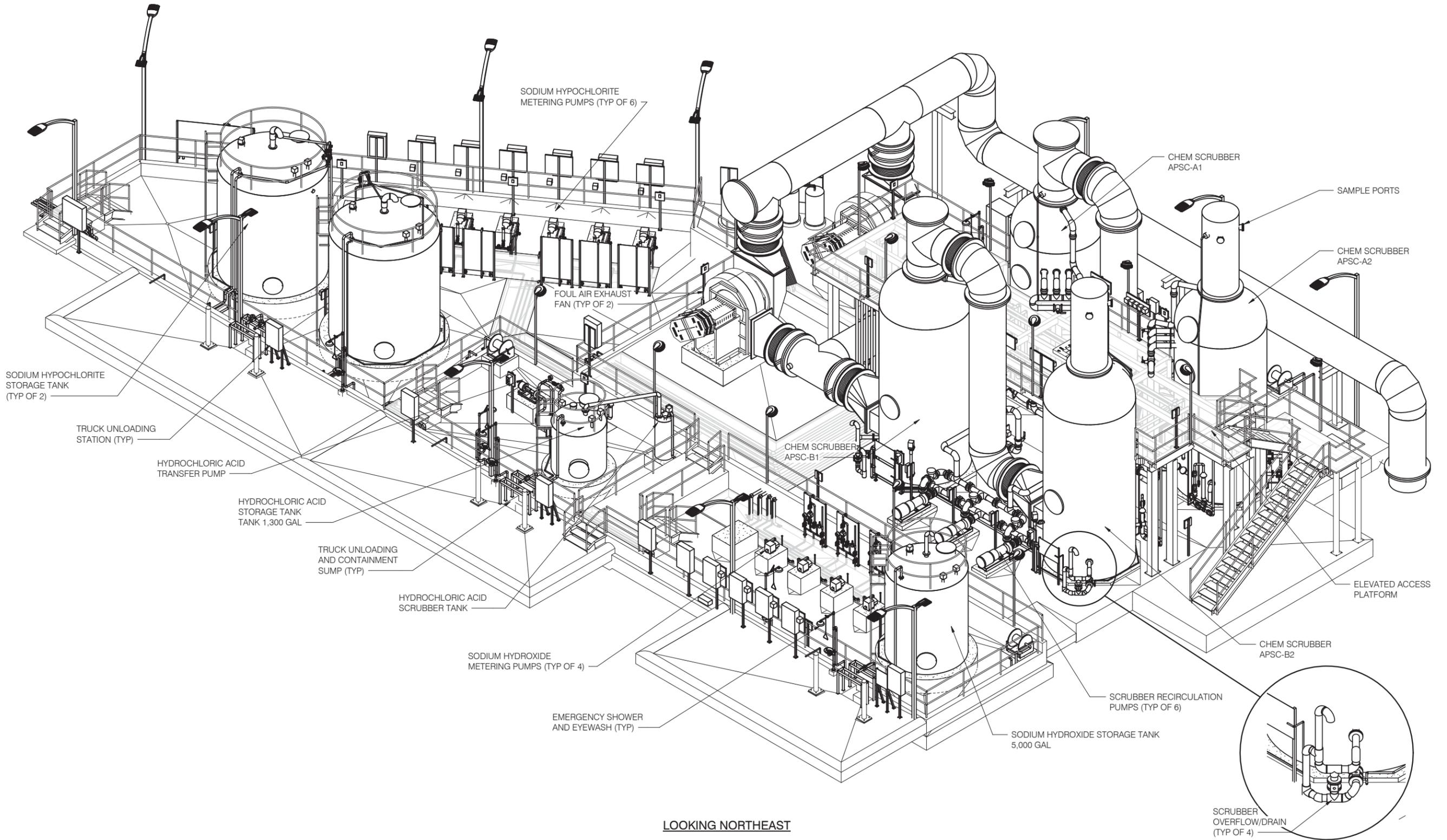
PN 193173

**ORANGE COUNTY SANITATION DISTRICT**

**A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2**

**A-SIDE PRIMARY SCRUBBERS SECTIONS (1 OF 5)**

PROJECT NO. **P2-98A**  
 DRAWING NO. **3M3001**  
 OF



LOOKING NORTHEAST

NOT FOR CONSTRUCTION

FILE: P2-98A-3M-BM10\_detailed.rvt  
DATE: 3/2/2020 5:08:40 PM

MARK	DESCRIPTION	DATE	APPR

DESIGNED BY: EDMONDSON, S - 10/2019  
 DRAWN BY: TUERO, GERARDO - 10/2019  
 CHECKED BY: VOGT, EDWARD - 10/2019

LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2"-SCALE ACCORDINGLY)



**BLACK & VEATCH**  
 IN ASSOCIATION WITH: **Brown and Caldwell**

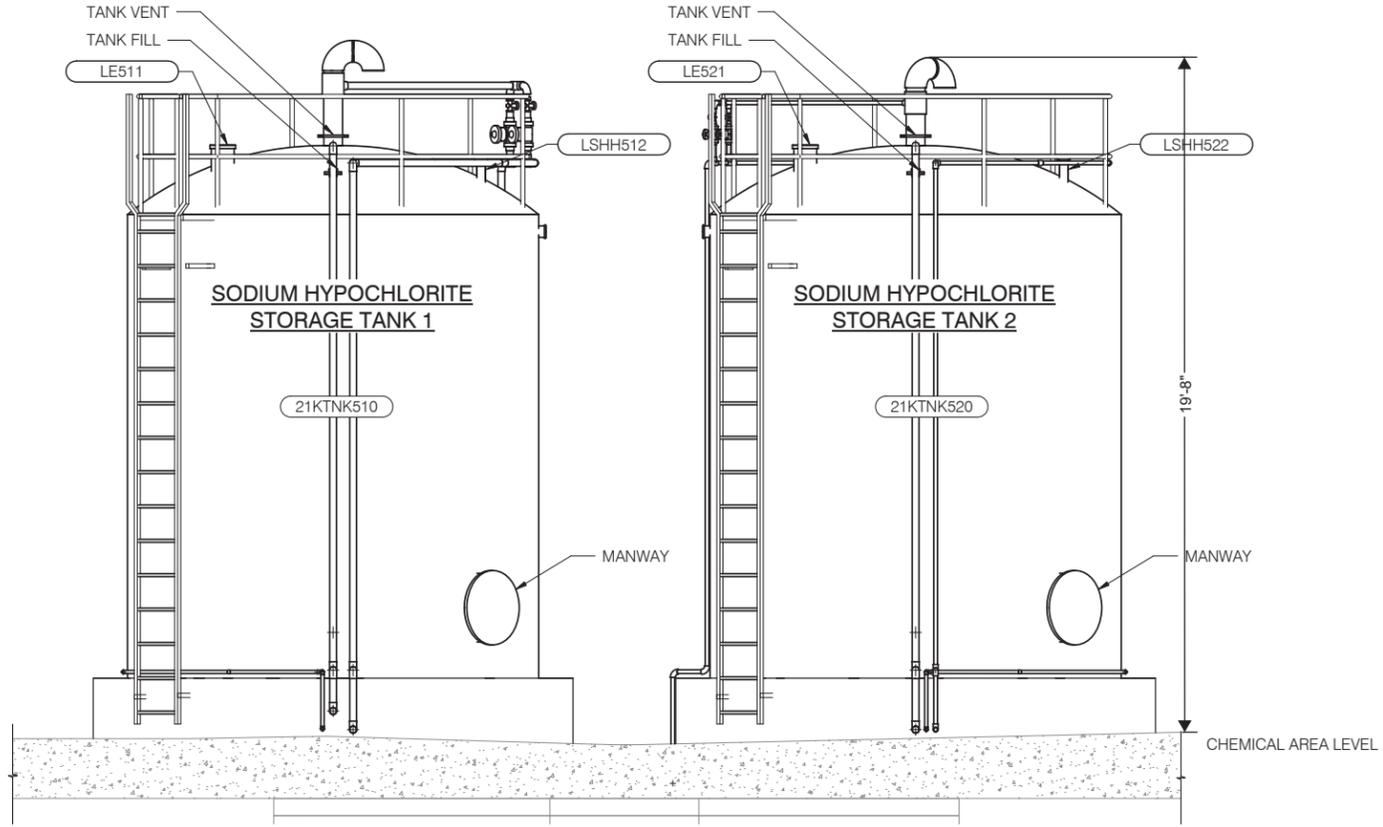
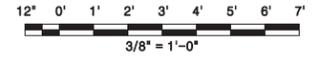
PN 193173



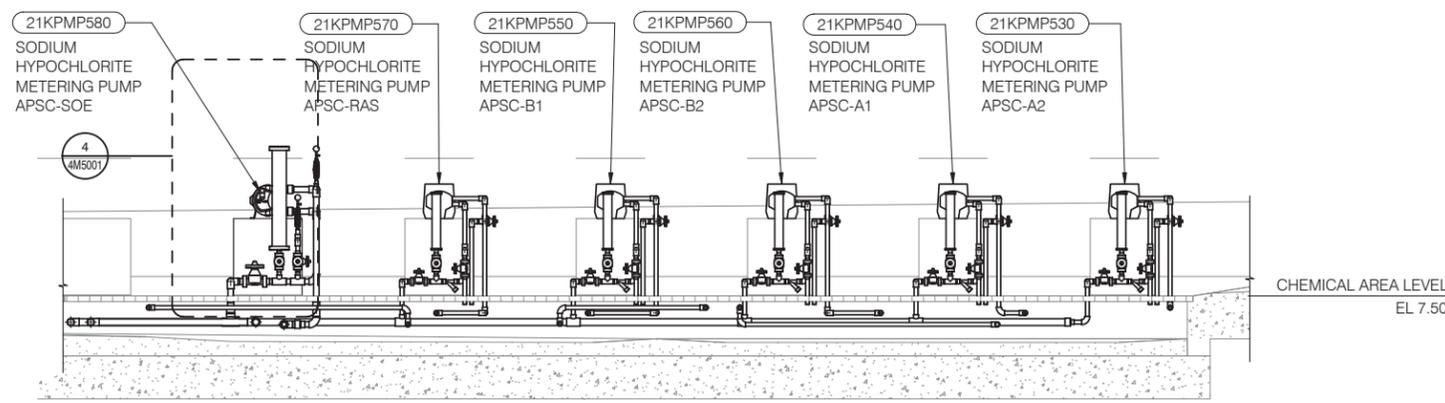
**ORANGE COUNTY  
 SANITATION DISTRICT**

A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2	PROJECT NO. P2-98A
<b>A-SIDE PRIMARY SCRUBBER COMPLEX PERSPECTIVE 1</b>	DRAWING NO. 3M8001
	OF

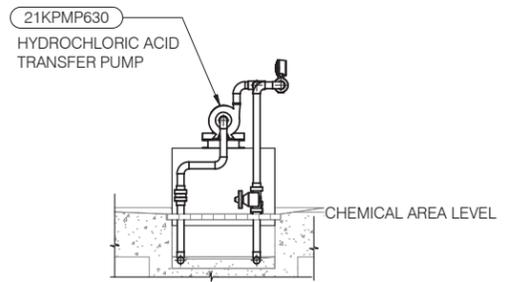
A  
B  
C  
D  
E  
F



**SECTION A**  
3/8" = 1'-0"  
4M1001



**SECTION B**  
3/8" = 1'-0"  
4M1001



**SECTION C**  
3/8" = 1'-0"  
4M1002

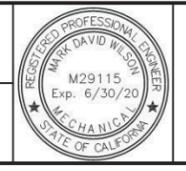
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MARK	DESCRIPTION	DATE	APPR

DESIGNED BY: BIRKENESS, ADAM - 10/2019  
 DRAWN BY: TUJERO, GERARDO - 10/2019  
 CHECKED BY: VOGT, EDWARD - 10/2019

LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2" SCALE ACCORDINGLY)



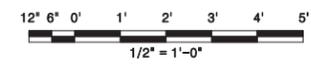
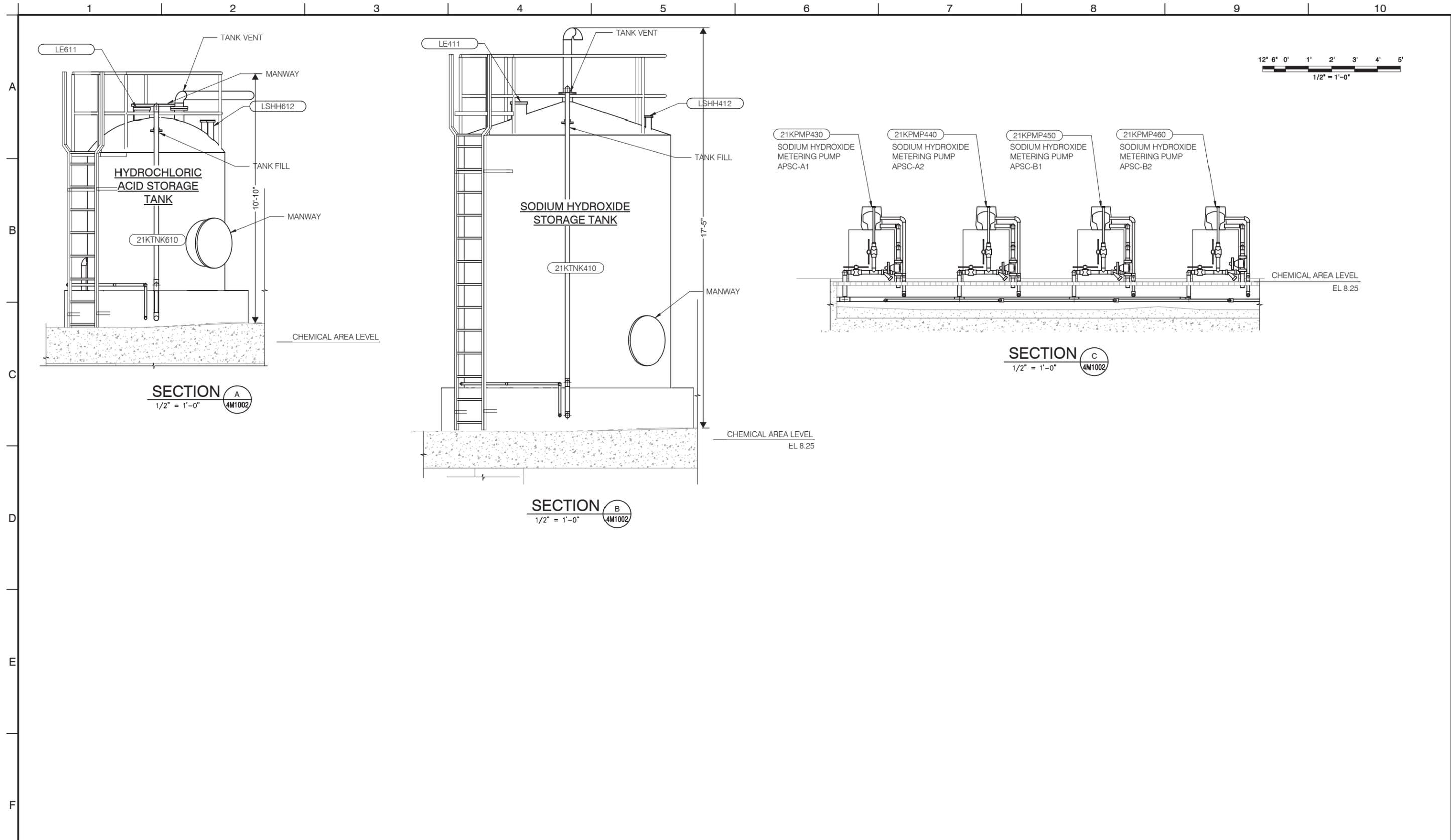
**BLACK & VEATCH**  
 IN ASSOCIATION WITH: **Brown and Caldwell**

PN 193173

**ORANGE COUNTY SANITATION DISTRICT**

**A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2**  
**CHEMICAL FEED AND STORAGE SECTIONS (1 OF 3)**

PROJECT NO. P2-98A  
 DRAWING NO. **4M3001**  
 OF

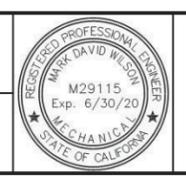


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MARK	DESCRIPTION	DATE	APPR

DESIGNED BY: BIRKENESS, ADAM - 10/2019  
 DRAWN BY: TJERO, GERARDO - 10/2019  
 CHECKED BY: VOGT, EDWARD - 10/2019

LINE IS 2 INCHES  
 AT FULL SIZE  
 (IF NOT 2"-SCALE ACCORDINGLY)



**BLACK & VEATCH**  
 IN ASSOCIATION WITH: **Brown and Caldwell**

PN 193173

**ORANGE COUNTY SANITATION DISTRICT**

**NOT FOR CONSTRUCTION**

A-SIDE PRIMARY CLARIFIERS REPLACEMENT AT PLANT 2	PROJECT NO. P2-98A
CHEMICAL FEED AND STORAGE SECTIONS (2 OF 3)	DRAWING NO. 4M3002
	OF