



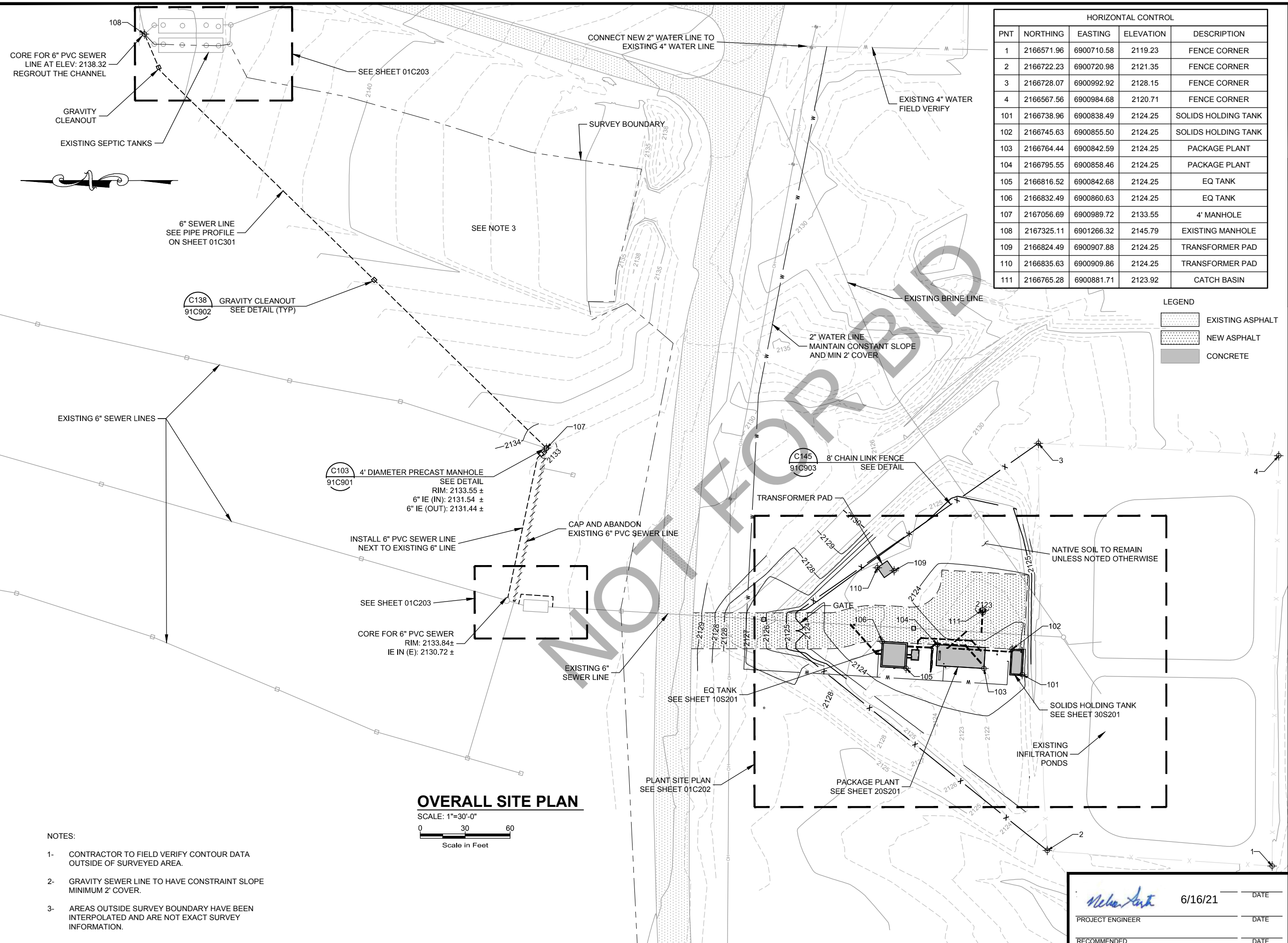
CALICO PHASE 2 ADVANCE WASTEWATER TREATMENT PROJECT

FOR

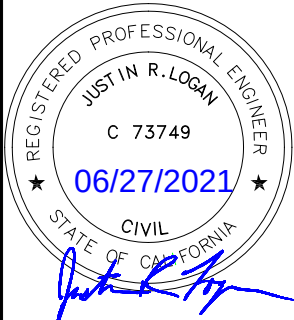
**CALICO GHOST TOWN REGIONAL PARK
YERMO, CALIFORNIA
PROJECT NO.: 30.30.0074**

WARNING

ALL INDIVIDUALS INTERESTED IN BIDDING ON THIS PROJECT MUST OBTAIN THE FINAL DESIGN PLANS AND SPECIFICATIONS FROM THE DEPARTMENT MANAGING THE PROJECT OR AS OTHERWISE STATED IN THE ADVERTISEMENT FOR BIDS FOR THE PROJECT. DO NOT USE THE PLANS AND SPECIFICATIONS POSTED ON THE CLERK OF THE BOARD'S WEBSITE FOR BIDDING THE PROJECT.



HORIZONTAL CONTROL				
PNT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2166571.96	6900710.58	2119.23	FENCE CORNER
2	2166722.23	6900720.98	2121.35	FENCE CORNER
3	2166728.07	6900992.92	2128.15	FENCE CORNER
4	2166567.56	6900984.68	2120.71	FENCE CORNER
101	2166738.96	6900838.49	2124.25	SOLIDS HOLDING TANK
102	2166745.63	6900855.50	2124.25	SOLIDS HOLDING TANK
103	2166764.44	6900842.59	2124.25	PACKAGE PLANT
104	2166795.55	6900858.46	2124.25	PACKAGE PLANT
105	2166816.52	6900842.68	2124.25	EQ TANK
106	2166832.49	6900860.63	2124.25	EQ TANK
107	2167056.69	6900989.72	2133.55	4' MANHOLE
108	2167325.11	6901266.32	2145.79	EXISTING MANHOLE
109	2166824.49	6900907.88	2124.25	TRANSFORMER PAD
110	2166835.63	6900909.86	2124.25	TRANSFORMER PAD
111	2166765.28	6900881.71	2123.92	CATCH BASIN

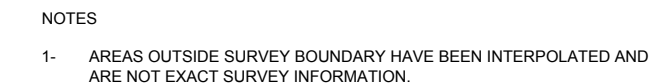


COUNTY OF SAN BERNARDINO
DEPT OF PUBLIC WORKS - SPECIAL DISTRICTS
CALICO GHOST TOWN PH 2 AWWT
CIVIL
OVERALL SITE PLAN

Neha Singh

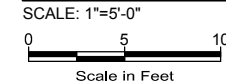
PROJECT ENGINEER

RECOMMENDED

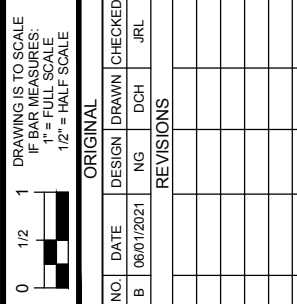


SCALE: 1"=5'-0"

Scale in Feet



PROJECT ENGINEER



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Bountiful, Utah 84010
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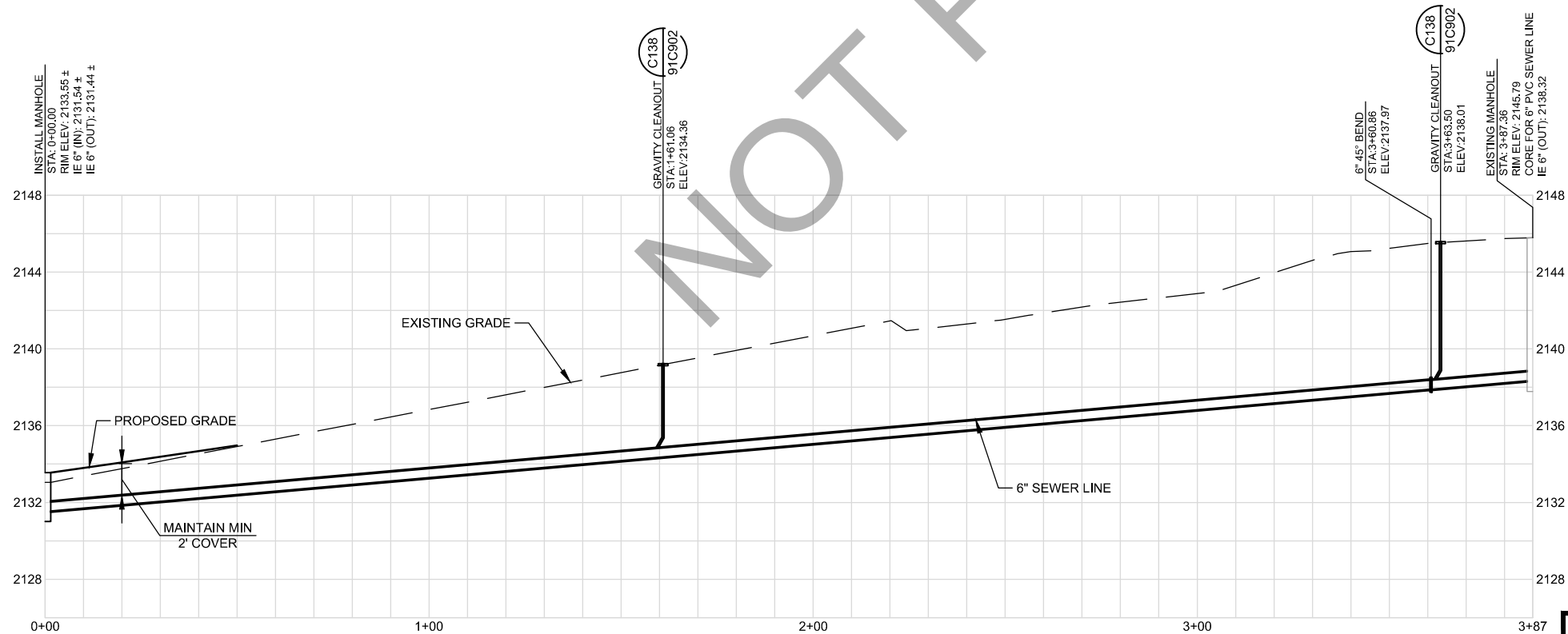
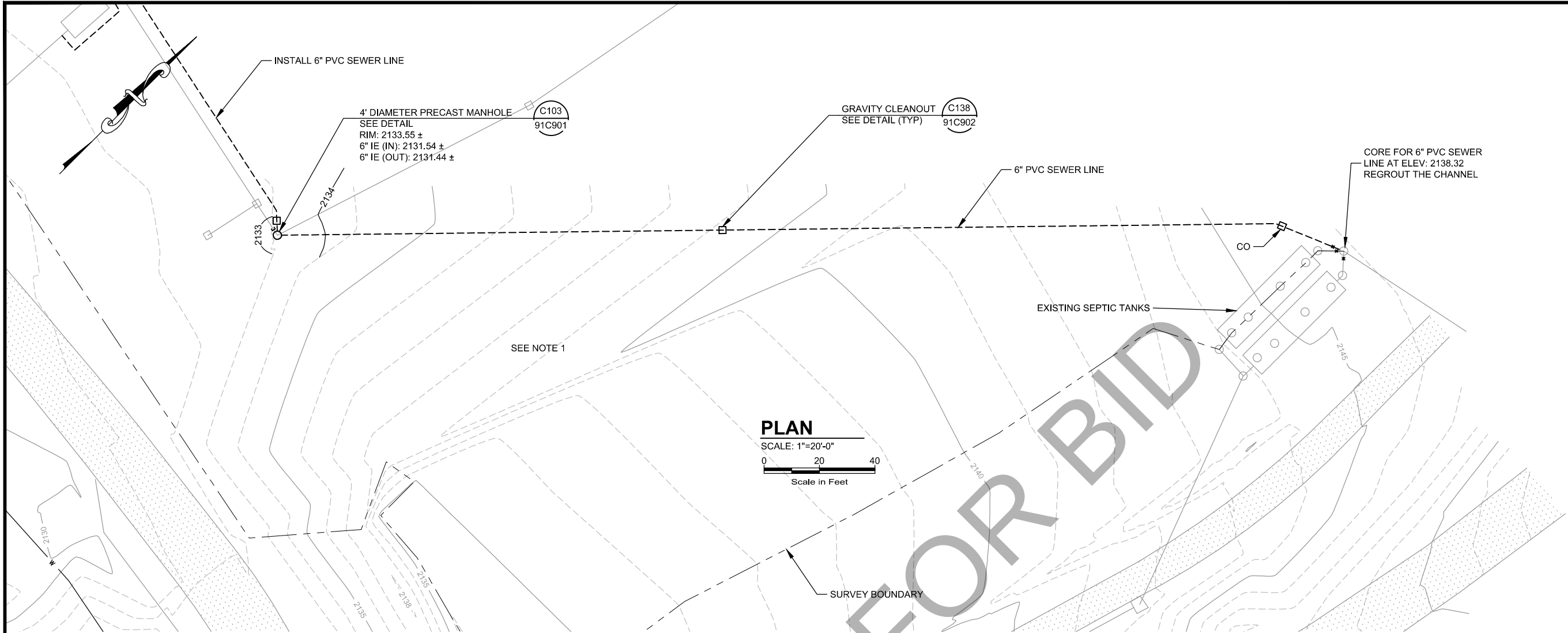


AQUA
ENGINEERING

533 W 2600 S, SUITE 275, BOUNTIFUL, UT 84007
PHONE (801) 299-1327 FAX (801) 299-0153

DRAWING NO.
01C203
SHEET 12 of 58

5/24/2021 C:\AUSERS\DEREK HYDE\AQUA ENGINEERING\SAN BERNARDINO COUNTY - 001817.C CALICO WWTP PRELIMINARY DESIGN\050 DRAFTING\001 SITE CIVIL\011-01C301 - PLAN AND PROFILE.DWG



- NOTES
- 1- AREAS OUTSIDE SURVEY BOUNDARY HAVE BEEN INTERPOLATED AND ARE NOT EXACT SURVEY INFORMATION.



DRAWING IS TO SCALE IF BAR MEASURES: 1" = FULL SCALE 1/2" = HALF SCALE		ORIGINAL		DESIGN		DRAWN		CHECKED		REVISIONS	
NO	DATE	DESIGN	DRAWN	CHECKED	DATE	NO	DATE	DESIGN	DRAWN	CHECKED	DATE
B	06/01/2021	NG	DCH	JRL							

COUNTY OF SAN BERNARDINO
DEPT OF PUBLIC WORKS - SPECIAL DISTRICTS
CALICO GHOST TOWN PH 2 AWWT
CIVIL
PLAN AND PROFILE

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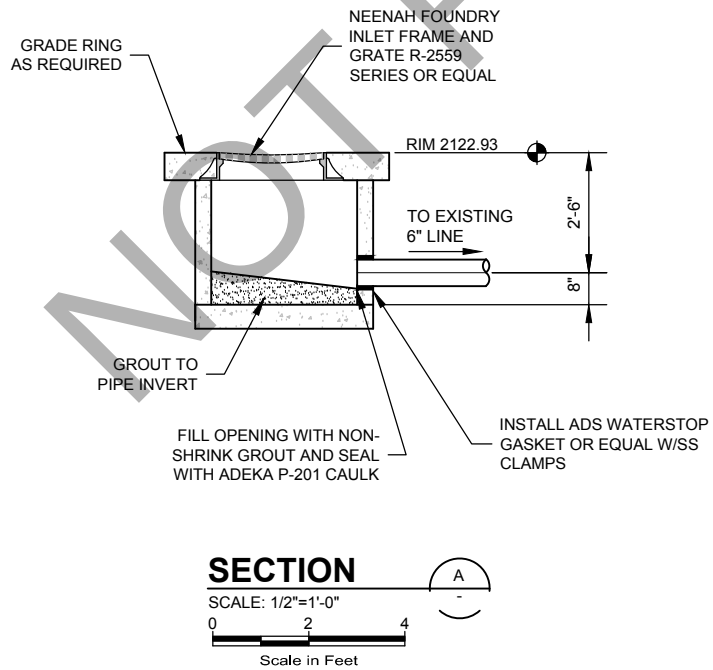
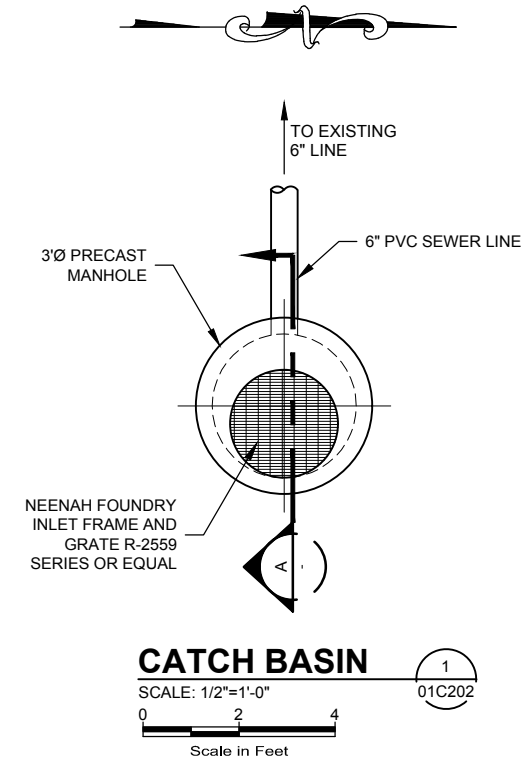
ALBERT A. WEBB ASSOCIATES
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PROJECT ENGINEER
RECOMMENDED
DATE
6/16/21
DATE

DRAWING NO.
01C301
SHEET 13 of 58

5/24/2021 C:\USERS\BRETT.PRATT\AQUA ENGINEERING\SAN BERNARDINO COUNTY - 001817.C\CALICO WWTP PRELIMINARY DESIGN\050 DRAFTING\001 SITE CIVIL\011-01C901 - DETAILS.DWG



DRAWING IS TO SCALE IF BAR MEASURES: 1" = FULL SCALE 1/2" = HALF SCALE				ORIGINAL				REVISIONS			
NO.	DATE	DESIGN	DRAWN	CHECKED	NG	BDP	JRL				
B	06/01/2021										

COUNTY OF SAN BERNARDINO
DEPT OF PUBLIC WORKS - SPECIAL DISTRICTS
CALICO GHOST TOWN PH 2 AWWT
CIVIL
DETAIL

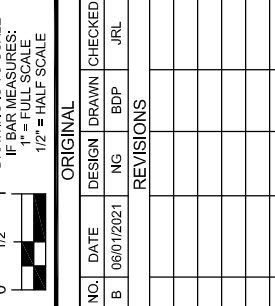
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6/16/21 DATE
PROJECT ENGINEER
RECOMMENDED DATE

DRAWING NO.
01C901
SHEET 14 of 58



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133 W 2600 S, SUITE 275, BOUNTIFUL, UT 84017
PHONE (801) 299-1327 FAX (801) 299-0153

DRAWING NO.

10S201

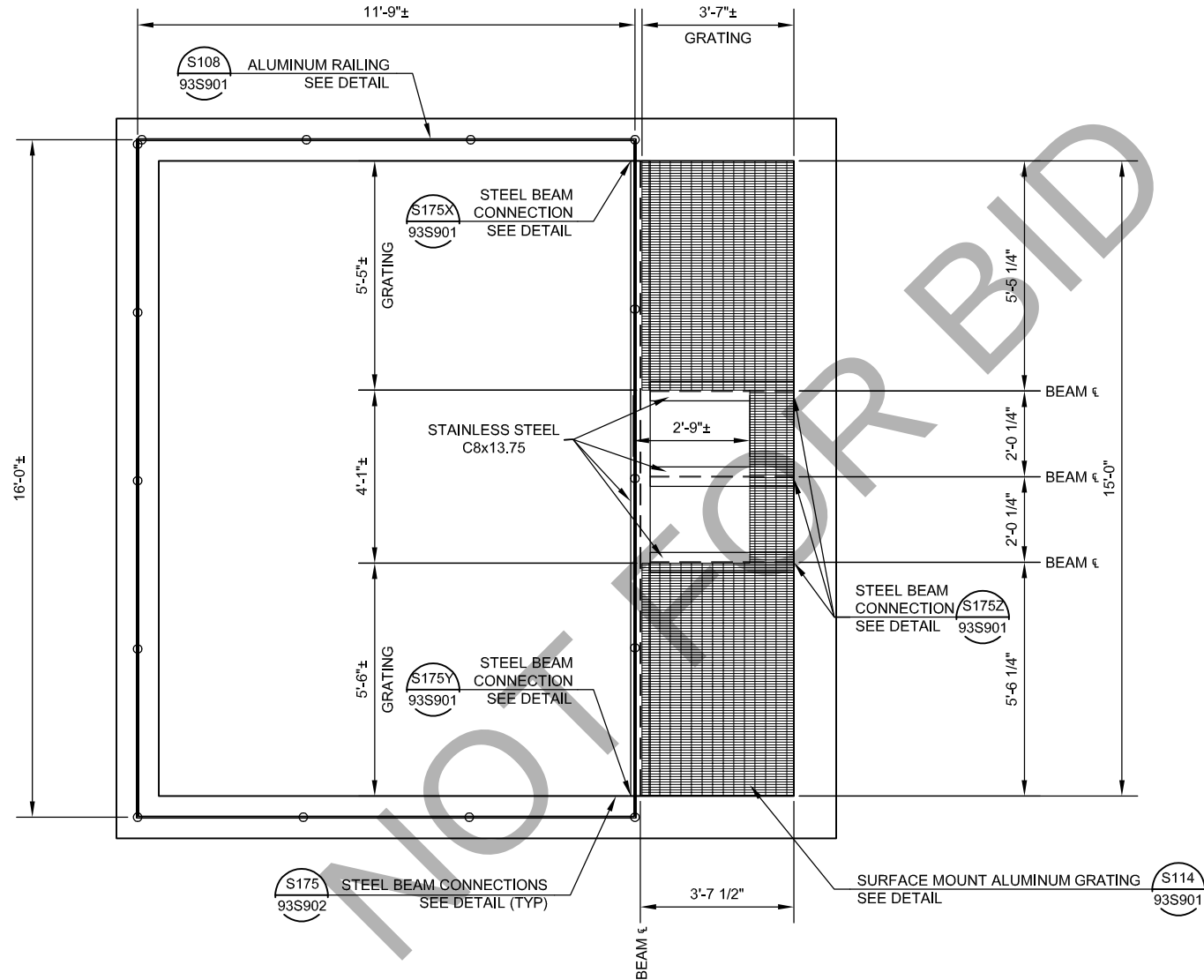
HEET 15 of 58

Nelson Smith 6/16/21 _____ DATE

PROJECT ENGINEER _____ DATE

RECOMMENDED _____ DATE

5/24/2021 C:\USERS\KENNETH.BAETZ\AQUA ENGINEERING\SAN BERNARDINO COUNTY - 001817.C CALICO WWTP PRELIMINARY DESIGN\050 DRAFTING\002 STRUCTURES\EQ TANK\103-10S202 BEAM-HANDRAIL PLAN.DWG



BEAM-HANDRAIL PLAN

SCALE: 1/2"=1'-0"



DRAWING IS TO SCALE IF BAR MEASURES: 1" = FULL SCALE 1/2" = HALF SCALE				ORIGINAL				REVISIONS			
NO.	DATE	DESIGN	DRAWN	CHECKED	NG	BDP	JRL				
B	06/01/2021										

COUNTY OF SAN BERNARDINO
DEPT OF PUBLIC WORKS - SPECIAL DISTRICTS
CALICO GHOST TOWN PH 2 AWWT
EQUALIZATION TANK
BEAM AND HANDRAIL - PLAN

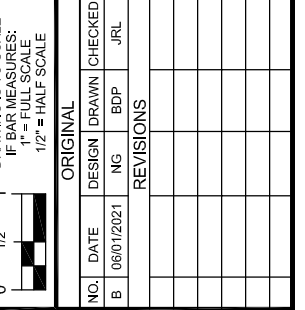
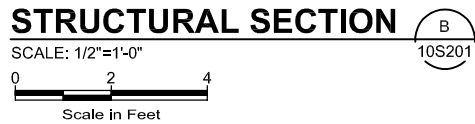
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PHONE (801) 299-1327 FAX (801) 299-0153

Albert A. Webb 6/16/21 DATE
PROJECT ENGINEER DATE
RECOMMENDED DATE

DRAWING NO.
10S202
SHEET 16 of 58



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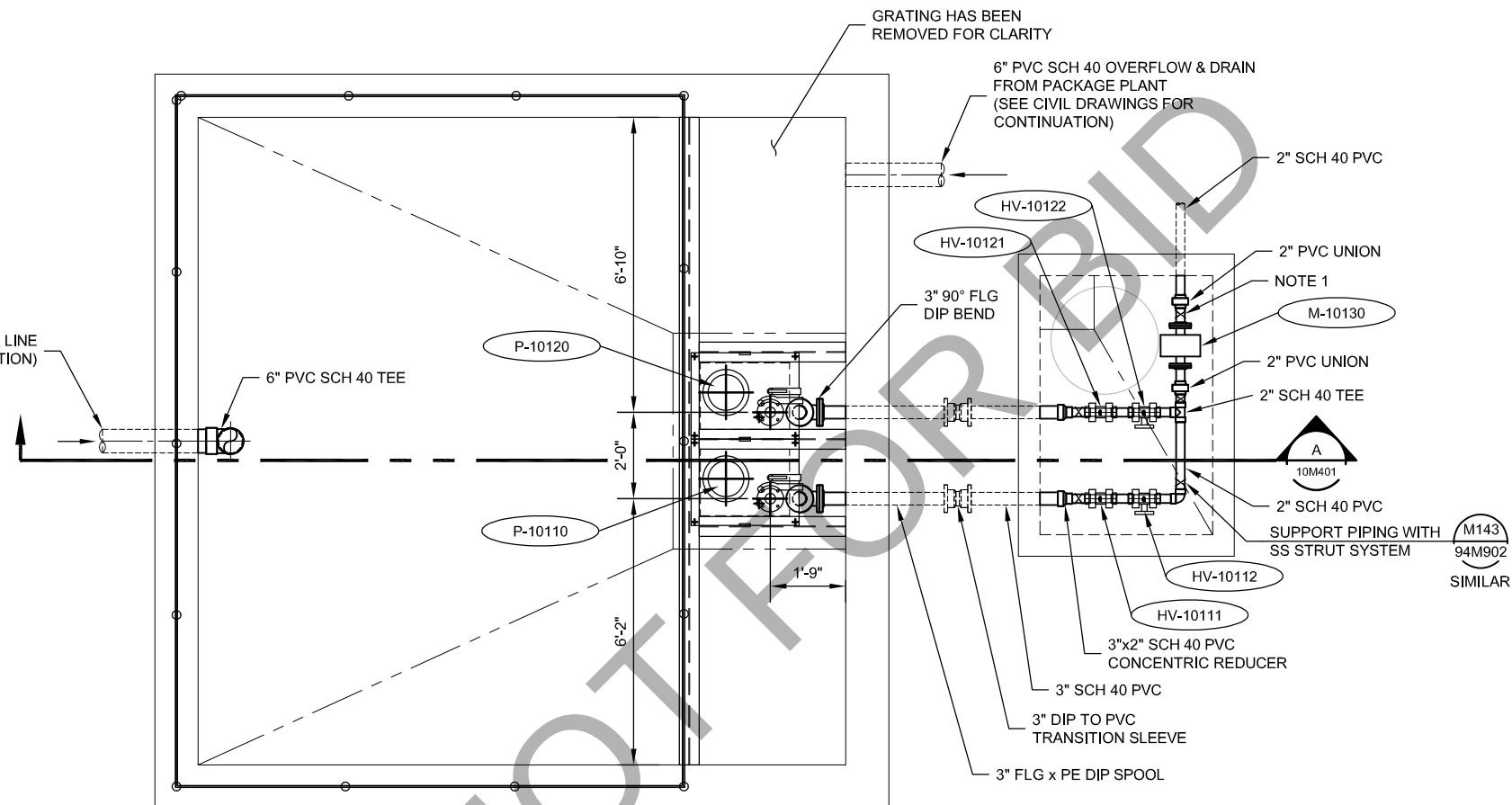
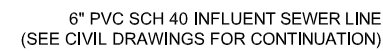


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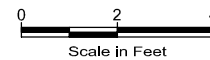
10S401

HEET 17 of 58

	6/16/21	DATE
PROJECT ENGINEER		DATE
RECOMMENDED		DATE



SCALE: 1/2"=1'-0"



- 1- PROVIDE PIPE SUPPORTS WHERE INDICATED WITH AN "X".
- 2- ALL PVC PIPING AND VALVES THAT ARE EXPOSED TO UV TO HAVE PROTECTIVE COATING PER SPECIFICATION 99000.
- 3- SEE SCHEDULE SHEET FOR MECHANICAL AND VALVE SCHEDULE.

 6/16/21 _____ DATE

PROJECT ENGINEER _____ DATE

RECOMMENDED _____ DATE

[illegible]

COUNTY OF SAN BERNARDINO
DEPT OF PUBLIC WORKS - SPECIAL DISTRICTS
CALICO GHOST TOWN PH 2 AWWWT
EQUALIZATION TANK
MECHANICAL - PLAN

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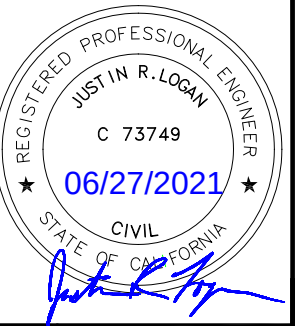
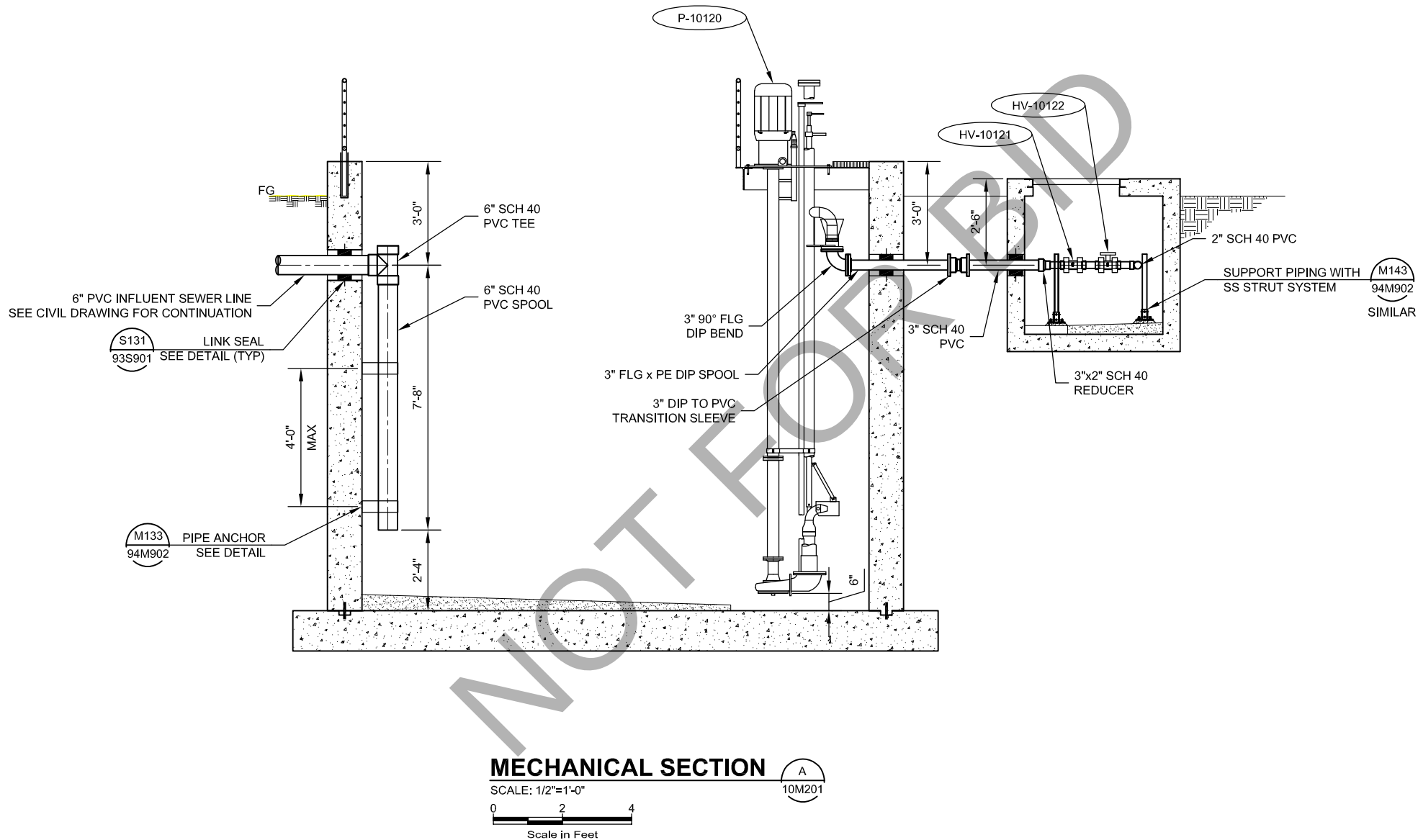
33 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010
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DRAWING NO.

10M201

SHEET 18 of 58

5/19/2021 C:\USERS\BRETT.PRATT\AQUA ENGINEERING\SAN BERNARDINO COUNTY - 001817.C\CALICO WWTP PRELIMINARY DESIGN\050 DRAFTING\002 STRUCTURES\EQ TANK\104-10M401 MECHANICAL SECTION.DWG



ORIGINAL				REVISIONS			
NO.	DATE	DESIGN	DRAWN	CHECKED	NO.	DATE	DESIGN
B	06/01/2021	NG	BDP	JRL			

COUNTY OF SAN BERNARDINO
DEPT OF PUBLIC WORKS - SPECIAL DISTRICTS
CALICO GHOST TOWN PH 2 AWWT
EQUALIZATION TANK
MECHANICAL - SECTIONS

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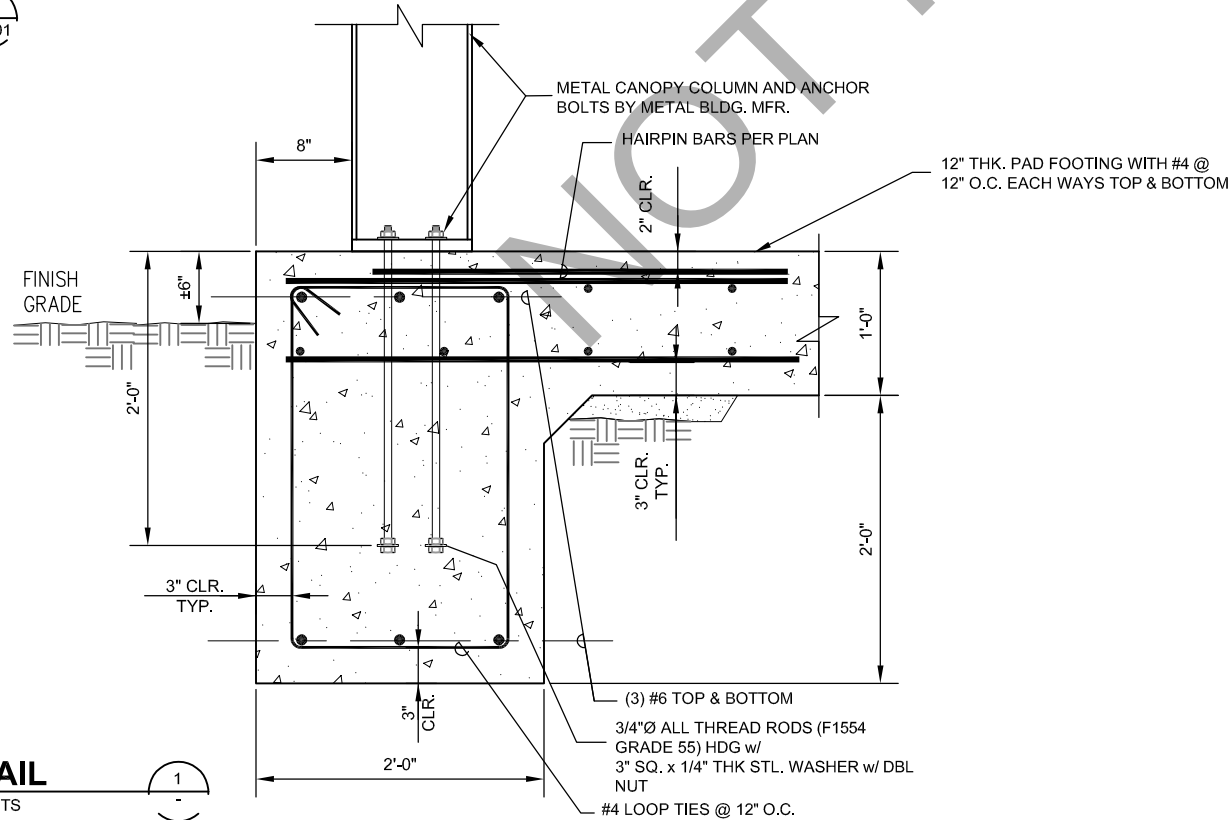
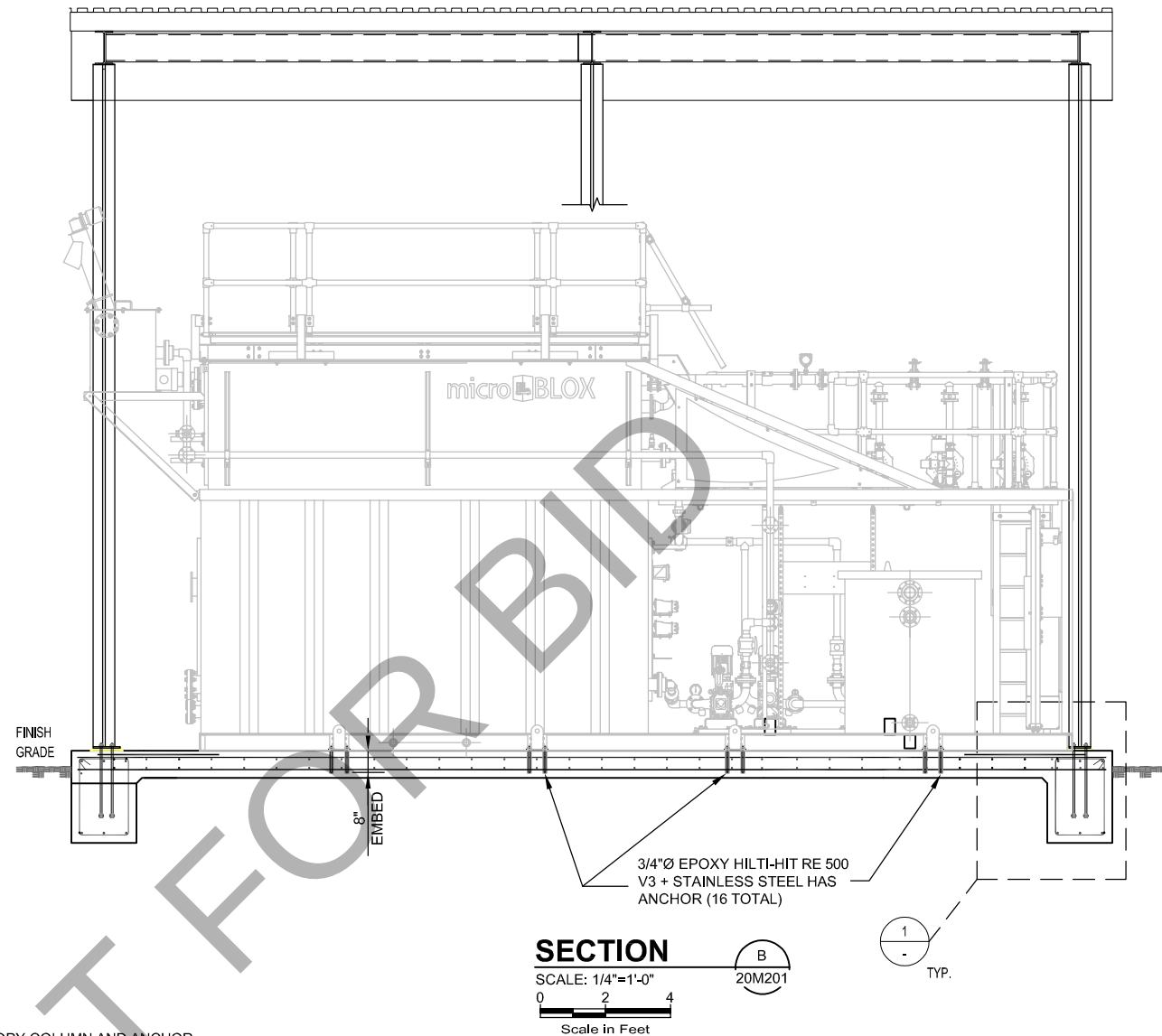
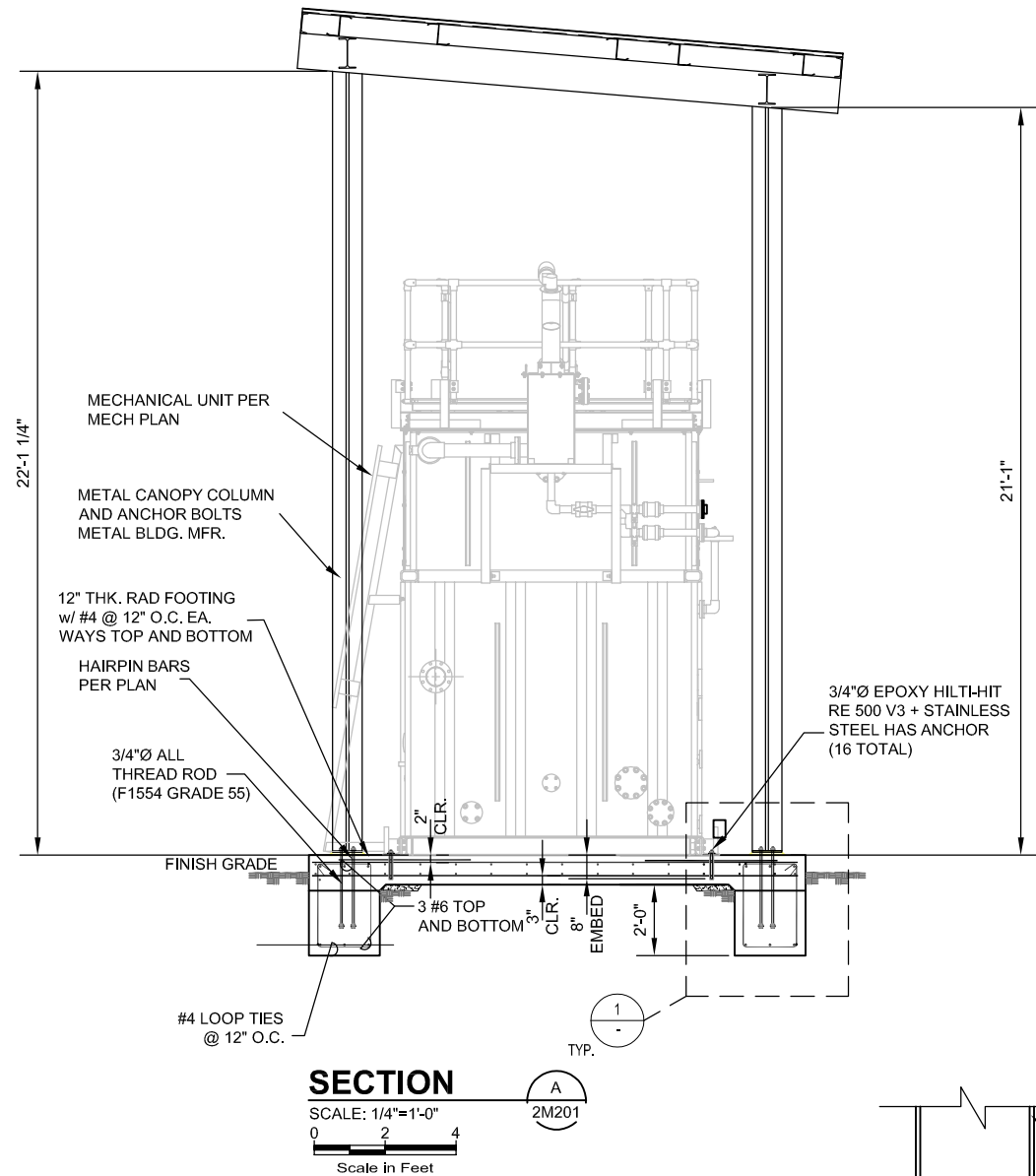
Nelson Smith 6/16/21 DATE
PROJECT ENGINEER DATE
RECOMMENDED DATE

DRAWING NO.
10M401
SHEET 19 of 58

C:\USERS\BRETT.PRATT\AQUA ENGINEERING\SAN BERNARDINO COUNTY - 001817.C\CALICO WWTP PRELIMINARY DESIGN\050 DRAFTING\002 STRUCTURES\PACKAGE PLANT\203-20S401 STRUCTURAL SECTIONS.DWG

5/6/2021

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IF BAR MEASURES: 1" = FULL SCALE 1/2" = HALF SCALE													
ORIGINAL													
NO.		DATE		DESIGN		DRAWN		CHECKED					
B		06/01/2021		NG		BDP		JRL					
REVISIONS													

COUNTY OF SAN BERNARDINO
DEPT OF PUBLIC WORKS - SPECIAL DISTRICTS
CALICO GHOST TOWN PH 2 AWWT
PACKAGE PLANT
STRUCTURAL - SECTIONS

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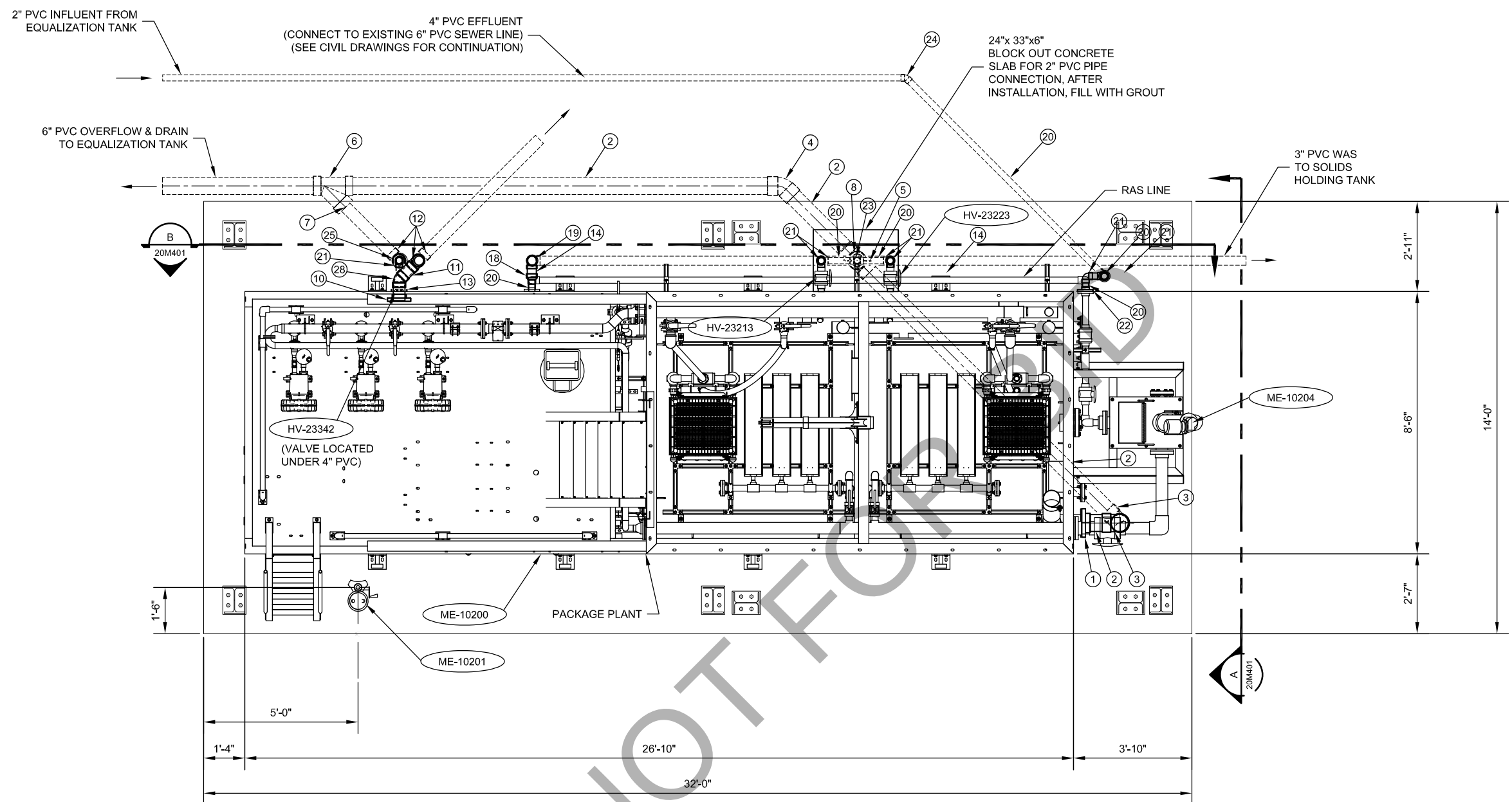
ALBERT A. WEBB
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PHONE (801) 299-1327 FAX (801) 299-0153

Nelson Ant
PROJECT ENGINEER
RECOMMENDED
6/16/21
DATE
DATE
DATE

DRAWING NO.
20S401
SHEET 21 of 58

5/24/2021 C:\USERS\BRETT.PRATT\AQUA ENGINEERING\SAN BERNARDINO COUNTY - 001817.C CALICO WWTP PRELIMINARY DESIGN\050 DRAFTING\002 STRUCTURES\PACKAGE PLANT\204-20M201 MECHANICAL PLAN.DWG



- NOTE:
- 1- SEE SHEET 20M401 FOR PIPE SCHEDULE.
 - 2- ALL PVC PIPING AND VALVES THAT ARE EXPOSED TO UV TO HAVE PROTECTIVE COATING PER SPECIFICATION 99000.
 - 3- SEE SCHEDULE SHEET FOR MECHANICAL AND VALVE SCHEDULE.
 - 4- DESIGN IS BASED UPON A PACKAGE PLANT BY OVIVO. IF DIFFERENT MANUFACTURER IS SELECTED, CONTRACTOR IS FULLY RESPONSIBLE FOR MODIFICATION COORDINATING WITH MANUFACTURER.

MECHANICAL PLAN
SCALE: 1/2"=1'-0"
0 2 4
Scale in Feet



DRAWING IS TO SCALE IF BAR MEASURES: 1" = FULL SCALE 1/2" = HALF SCALE		ORIGINAL		CHECKED		REVISIONS	
NO.	DATE	DESIGN	DRAWN	NG	BDP	JRL	
B	06/01/2021						

COUNTY OF SAN BERNARDINO
DEPT OF PUBLIC WORKS - SPECIAL DISTRICTS
CALICO GHOST TOWN PH 2 AWWT
PACKAGE PLANT
MECHANICAL - PLAN

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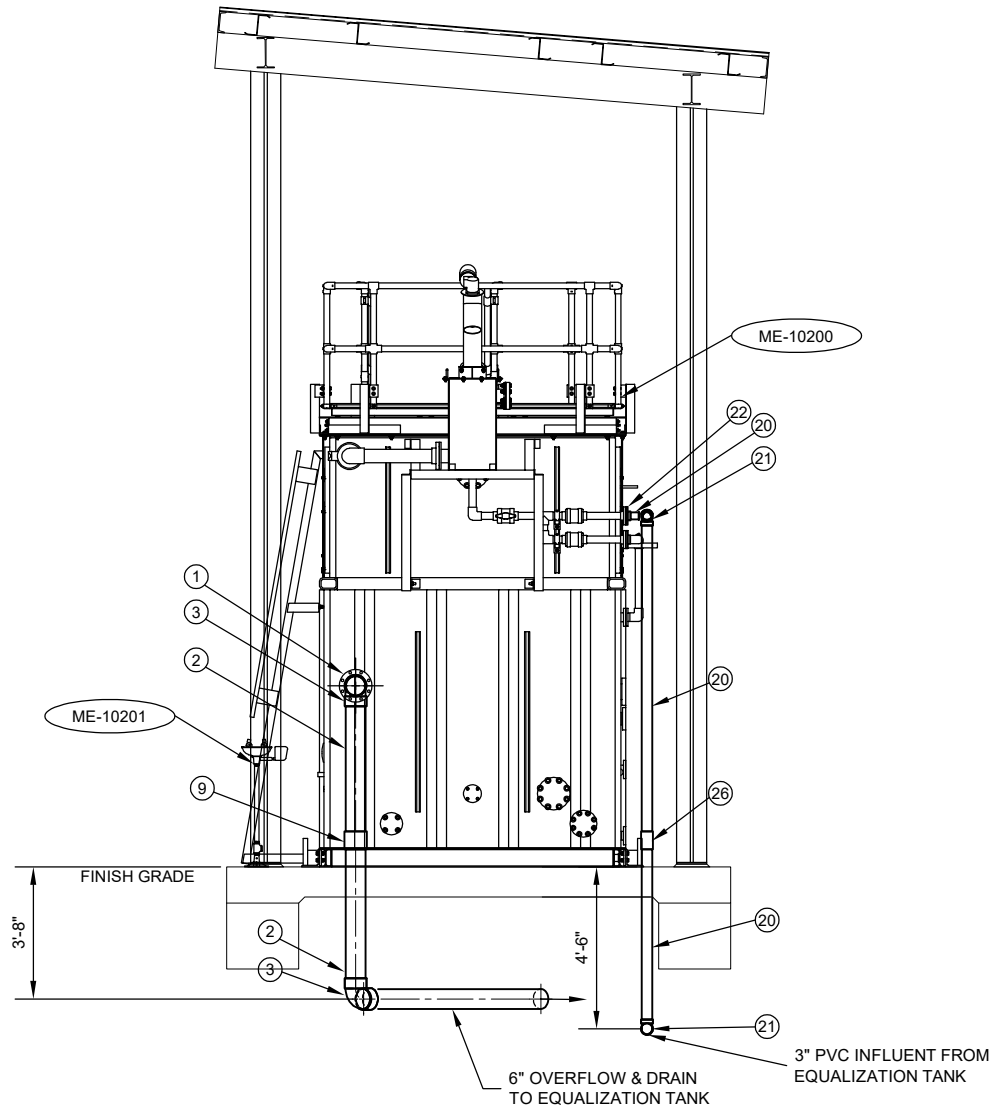
ALBERT A. **WEBB** CIVIL ENGINEERS
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PHONE (801) 299-1327 FAX (801) 299-0153

Michael Smith 6/16/21 DATE
PROJECT ENGINEER DATE
RECOMMENDED DATE

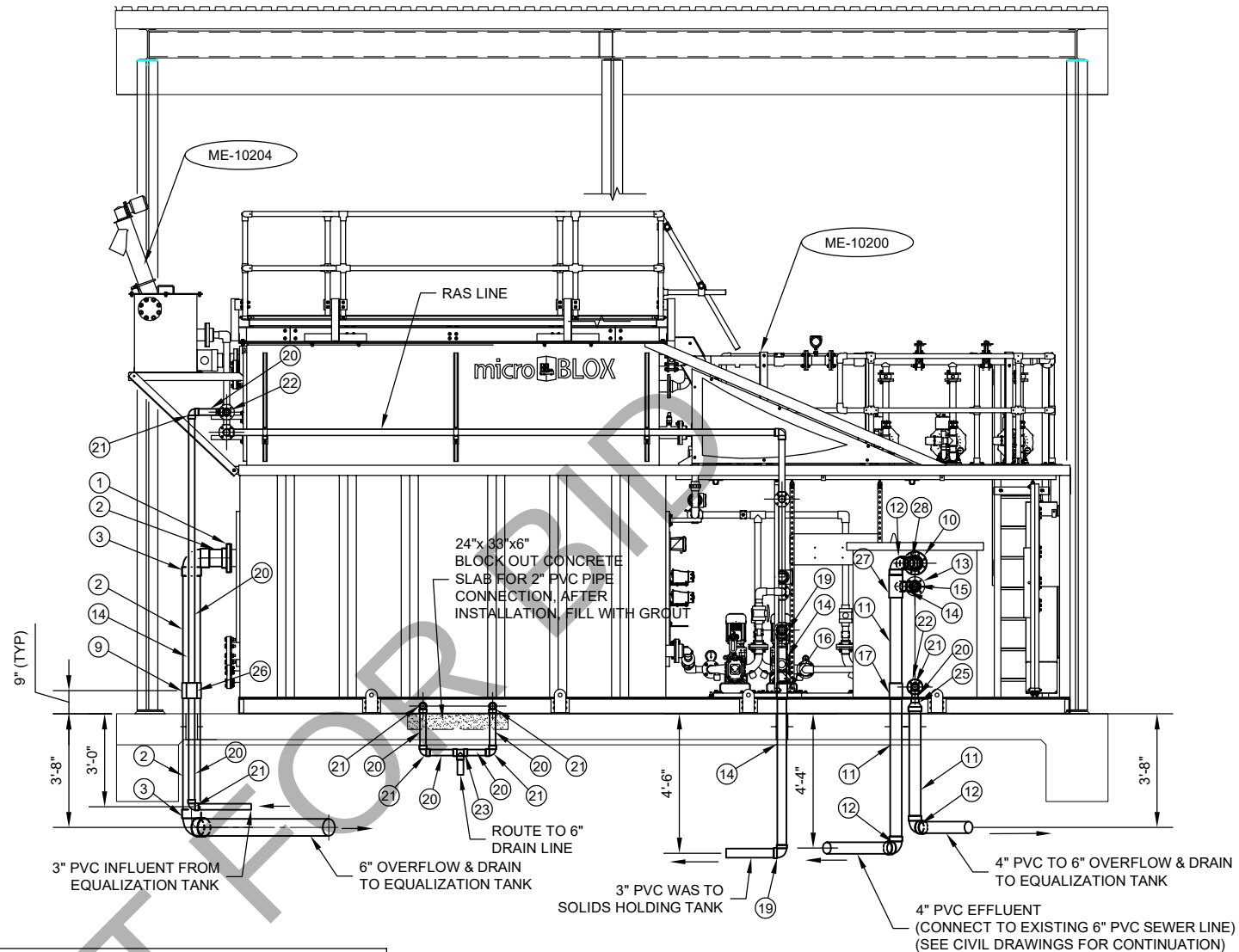
DRAWING NO.
20M201
SHEET 22 of 58

5/25/2021 C:\USERS\CONNOR STARKS\AQUA ENGINEERING\SAN BERNARDINO COUNTY - 001817.C CALICO WWTP PRELIMINARY DESIGN\050 DRAFTING\002 STRUCTURES\PACKAGE PLANT\204-20M401 MECHANICAL SECTIONS.DWG



SECTION A
SCALE: 3/8"=1'-0"
2M201
Scale in Feet

PIPE SCHEDULE				
NO.	DESCRIPTION	SIZE	JOINT	MATERIAL
1	FLANGE	6"	SOCKET	PVC
2	SPOOL	6"	PE	PVC SCH 40
3	90° BEND	6"	SOCKET	PVC SCH 40
4	45° BEND	6"	SOCKET	PVC SCH 40
5	TEE	6"	SOCKET	PVC SCH 40
6	WYE	6"	SOCKET	PVC SCH 40
7	BUSHING	6"x 4"	SOCKET	PVC SCH 40
8	BUSHING	6"x 2"	SOCKET	PVC SCH 40
9	FERNCO	6"	-	RUBBER
10	FLANGE	4"	SOCKET	PVC
11	SPOOL	4"	PE	PVC SCH 40
12	90° BEND	4"	SOCKET	PVC SCH 40
13	FLANGE	3"	SOCKET	PVC
14	SPOOL	3"	PE	PVC SCH 40
15	45° BEND	3"	SOCKET	PVC SCH 40
16	FERNCO	3"	-	RUBBER
17	FERNCO	4"	-	RUBBER
18	REDUCER	3"x 2"	SOCKET	PVC SCH 40
19	90° BEND	3"	SOCKET	PVC SCH 40
20	SPOOL	2"	PE	PVC SCH 40
21	90° BEND	2"	SOCKET	PVC SCH 40
22	FLANGE	2"	SOCKET	PVC
23	TEE	2"	SOCKET	PVC SCH 40
24	45° BEND	2"	SOCKET	PVC SCH 40
25	REDUCING FERNCO	4"x 2"	-	RUBBER
26	FERNCO	2"	-	RUBBER
27	REDUCING TEE	4"x 3"	SOCKET	PVC SCH 40
28	45° BEND	4"	SOCKET	PVC SCH 40



SECTION B
SCALE: 3/8"=1'-0"
20M201
Scale in Feet



DRAWING IS TO SCALE IF BAR MEASURES: 1" = FULL SCALE 1/2" = HALF SCALE		ORIGINAL		DESIGN		DRAWN		CHECKED		REVISIONS	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
B	06/01/2021										

COUNTY OF SAN BERNARDINO
DEPT OF PUBLIC WORKS - SPECIAL DISTRICTS
CALICO GHOST TOWN PH 2 AWWT
PACKAGE PLANT
MECHANICAL - SECTIONS

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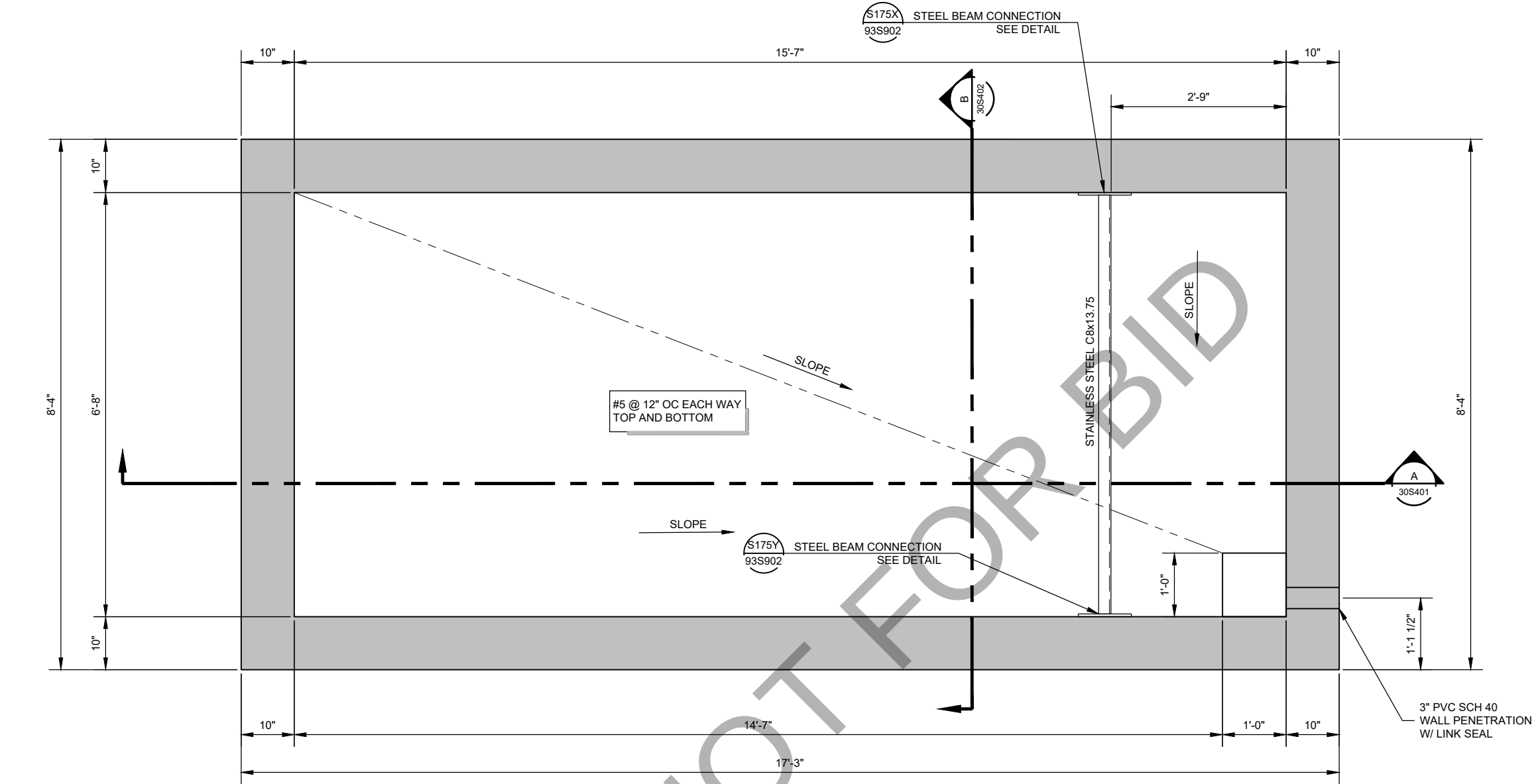
ALBERT A. WEBB
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PHONE (801) 299-1327 FAX (801) 299-0153

PROJECT ENGINEER: *Nelson Smith* 6/16/21
RECOMMENDED: _____
DATE: _____

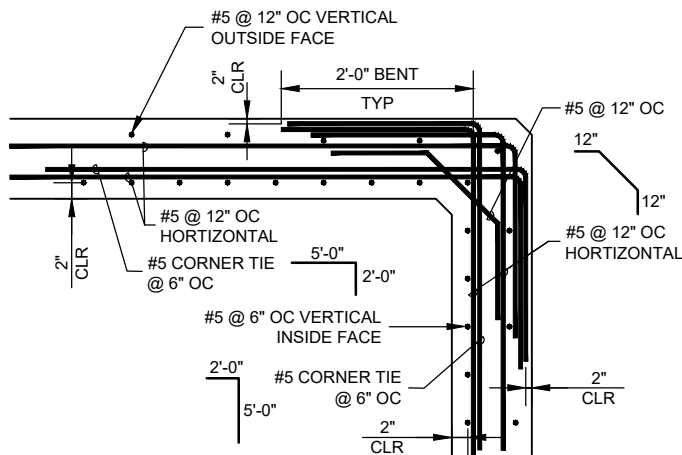
DRAWING NO.
20M401
SHEET 23 of 58

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STRUCTURAL PLAN

SCALE: 1"=1'-0"
0 1 2
Scale in Feet



CORNER DETAIL

SCALE: NTS

1



DRAWING IS TO SCALE IF BAR MEASURES: 1" = FULL SCALE 1/2" = HALF SCALE		ORIGINAL		DESIGN		DRAWN		CHECKED		REVISIONS	
NO.	DATE	DESIGN	DATE	DRAWN	DATE	BDP	JRL				
B	06/01/2021										

COUNTY OF SAN BERNARDINO
DEPT OF PUBLIC WORKS - SPECIAL DISTRICTS
CALICO GHOST TOWN PH 2 AWWT
SOLIDS HOLDING TANK
STRUCTURAL - PLAN

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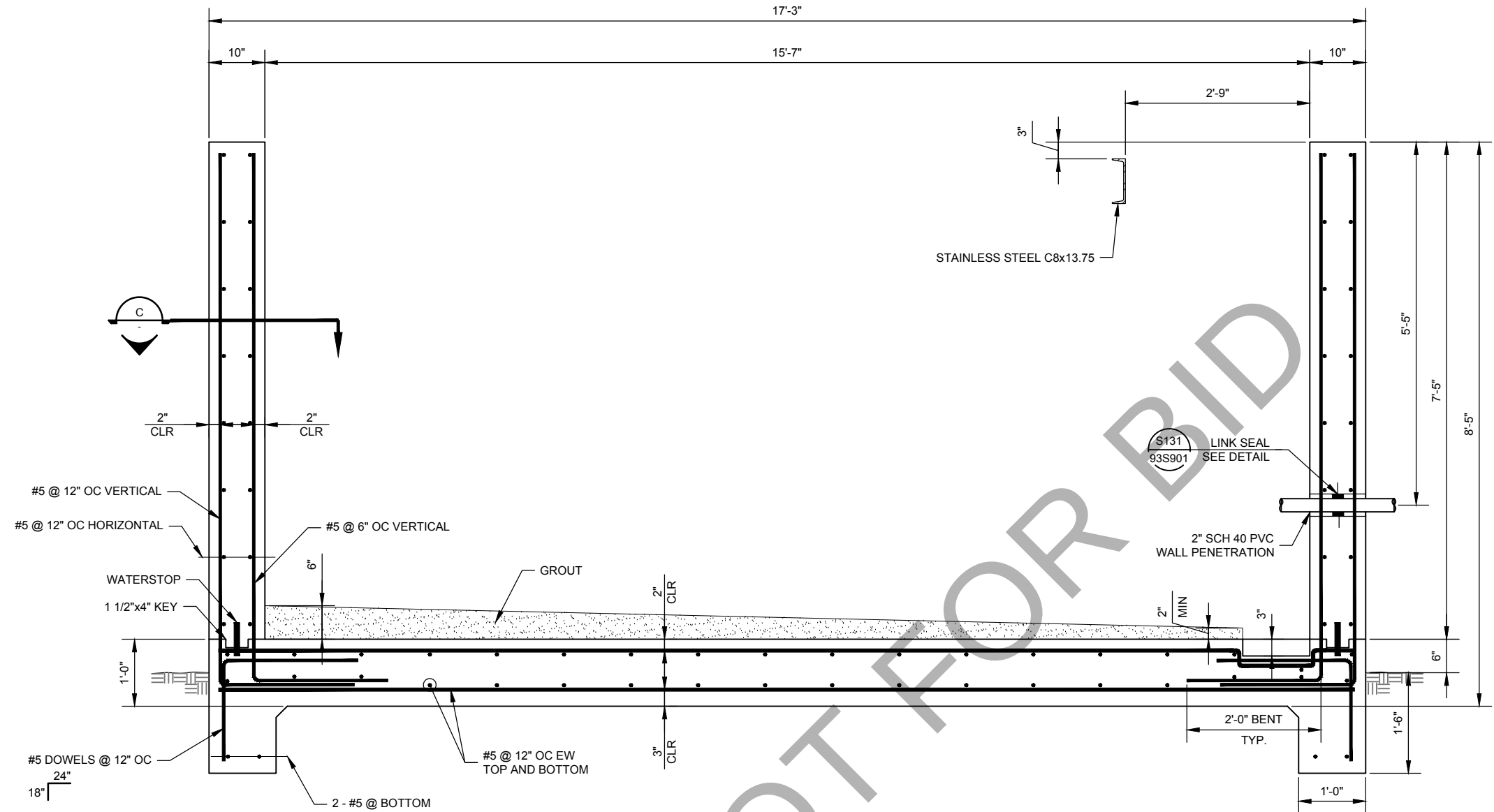
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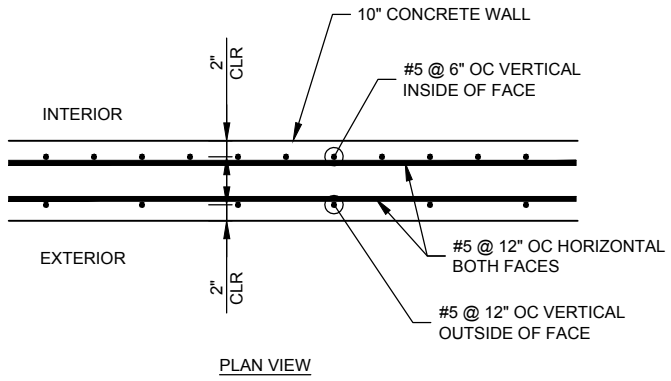
6/16/21 DATE
PROJECT ENGINEER DATE
RECOMMENDED DATE

DRAWING NO.
30S201
SHEET 24 of 58

5/24/2021 C:\USERS\BRETT.PRATT\AQUA ENGINEERING\SAN BERNARDINO COUNTY - 001817.C\CALICO WWTP PRELIMINARY DESIGN\050 DRAFTING\002 STRUCTURES\SOLIDS HOLDING\403-30S401 STRUCTURAL SECTION.DWG



STRUCTURAL SECTION
SCALE: 1"=1'-0"
0 1 2
Scale in Feet



WALL SECTION
SCALE: 1"=1'-0"



ORIGINAL				REVISIONS			
NO.	DATE	DESIGN	DRAWN	CHECKED	NO.	DATE	DESIGN
B	06/01/2021	NG	BDP	JRL			

COUNTY OF SAN BERNARDINO
DEPT OF PUBLIC WORKS - SPECIAL DISTRICTS
CALICO GHOST TOWN PH 2 AWWT
SOLIDS HOLDING TANK
STRUCTURAL - SECTION

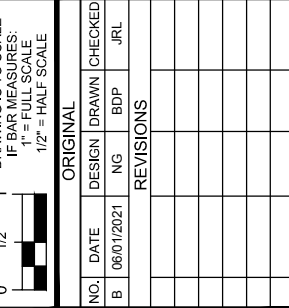
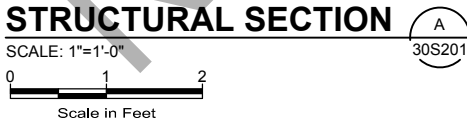
skm
533 W 2600 S, Suite 25
Bountiful, Utah 84010
Phone: (801) 677-0011
www.skmeng.com

ALBERT A. **WEBB** CIVIL ENGINEERS
3788 McCRAV STREET
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PH: (951) 696-1070
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ENGINEERING CONSULTANTS

AQUA
ENGINEERING
533 W 2600 S, SUITE 275, BOUNTIFUL, UT 84010
PHONE (801) 299-1327 FAX (801) 299-0153

Albert A. Webb 6/16/21 DATE
PROJECT ENGINEER DATE
RECOMMENDED DATE

DRAWING NO.
30S401
SHEET 25 of 58



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ALBERT A.
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HEET 26 of 58

 6/16/21 _____ DATE

PROJECT ENGINEER _____ DATE

RECOMMENDED _____ DATE