

ADDENDUM NO. 3
Date: December 20, 2024

PROJECT: Hays/Caldwell Water Treatment Plant Improvements – Phase 2; San Marcos, Texas

PROPOSAL NO.: HC Phase 2

BID DATE: **2:00 pm; Friday, January 24, 2025**

FROM: Yue Sun, P.E.
Project Director
Ardurra Group, Inc.
3115 Allen Parkway, Suite 300
Houston, TX 77019



To: **Prospective Offerors and Interested Parties**

A handwritten signature in blue ink, appearing to be "Yue Sun".

12/20/2024

This addendum forms a part of the bidding documents and will be incorporated into the Contract Documents, as applicable. Insofar as the original Contract Documents, Specifications, and Drawings are inconsistent, this Addendum shall govern. Please acknowledge receipt of this Addendum on the Proposal form, Section 00 41 00 submitted to the Canyon Regional Water Authority. **FAILURE TO ACKNOWLEDGE RECEIPT OF ADDENDA ON THE PROPOSAL FORM MAY BE CAUSE FOR DISQUALIFICATION.**

CONTRACT DOCUMENTS

None.

SPECIFICATIONS

None.

CONSTRUCTION DRAWINGS

1. Drawing C4: Delete this drawing in its entirety and replace with the updated Drawing C4.
2. Drawing C17: Delete this drawing in its entirety and replace with the updated Drawing C17.
3. Drawing C23: Delete this drawing in its entirety and replace with the updated Drawing C23.
4. Drawing M28: Delete this drawing in its entirety and replace with the updated Drawing M28.
5. Drawing M29: Add new Drawing M29.

CLARIFICATIONS:

1. When you have the chance, can you update Civcast with the new bid date as stated in Addendum 2?

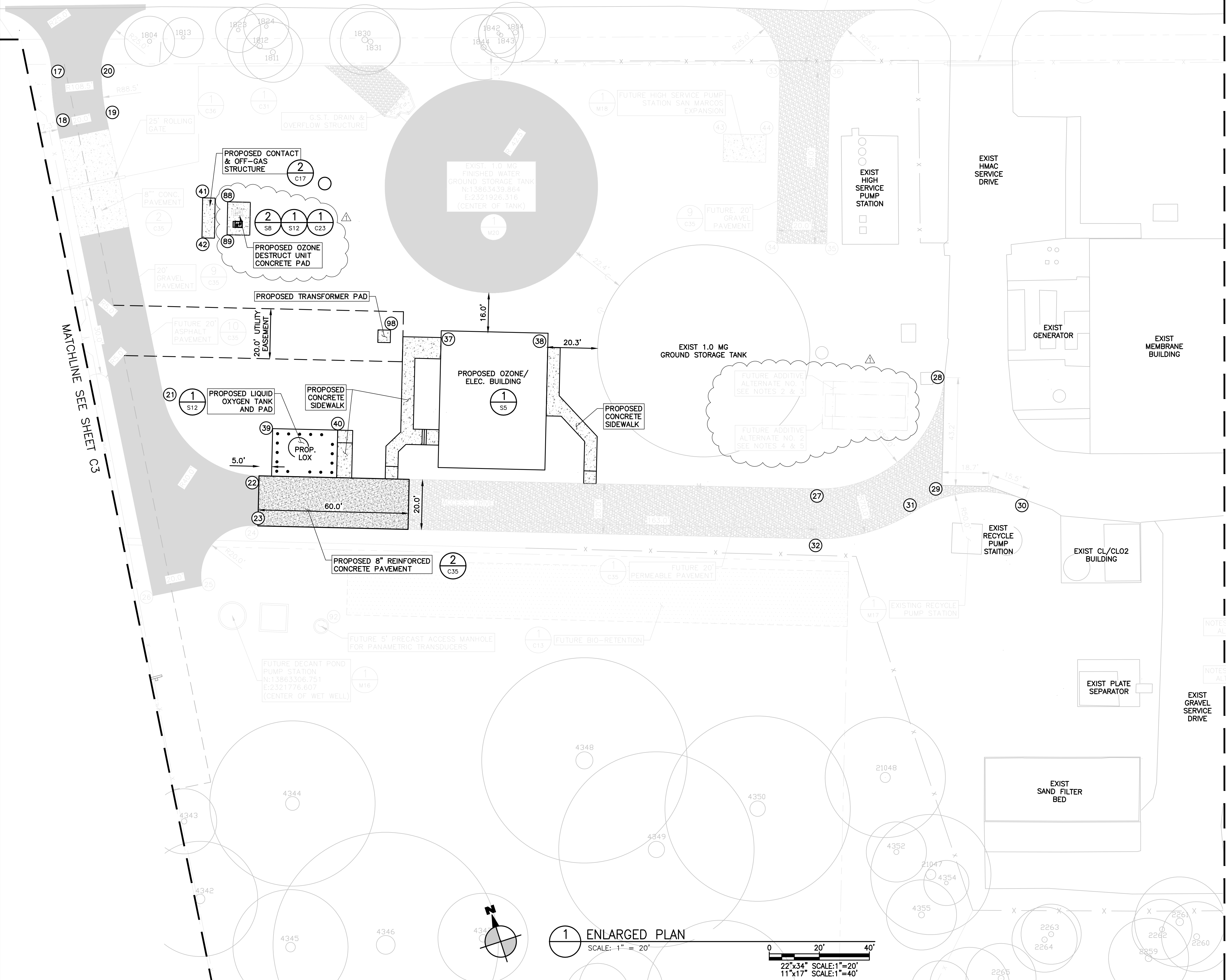
Response: The new bid date has been updated on CIVCAST.

12/2024

END OF ADDENDUM NO. 3

Yue Sun, P.E.
Project Director

OLD MARTINDALE



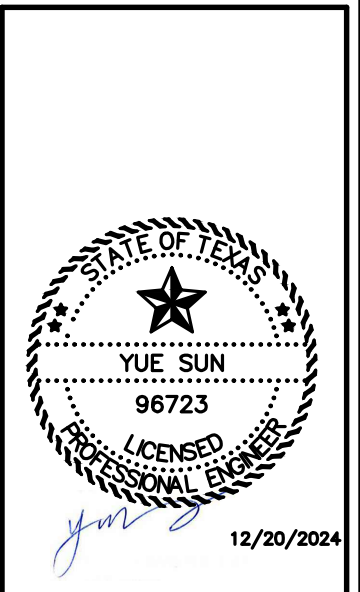
SITE COORDINATE POINT TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
17	13863535.95	2321772.04	GRAVEL ACCESS DRIVE
18	13863515.43	2321767.95	GRAVEL ACCESS DRIVE
19	13863513.44	2321787.85	GRAVEL ACCESS DRIVE
20	13863530.18	2321791.18	GRAVEL ACCESS DRIVE
21	13863398.90	2321776.37	GRAVEL ACCESS DRIVE
22	13863357.00	2321803.42	GRAVEL ACCESS DRIVE
23	13863338.04	2321797.05	GRAVEL ACCESS DRIVE
24	13863338.76	2321794.91	ASPHALT ACCESS DRIVE
25	13863321.80	2321768.64	ASPHALT ACCESS DRIVE
26	13863323.79	2321748.74	ASPHALT ACCESS DRIVE
27	13863285.94	2322014.82	GRAVEL ACCESS DRIVE
28	13863313.36	2322076.59	GRAVEL ACCESS DRIVE
29	13863272.43	2322062.83	GRAVEL ACCESS DRIVE
30	13863257.19	2322092.83	GRAVEL ACCESS DRIVE
31	13863265.80	2322049.18	GRAVEL ACCESS DRIVE
32	13863264.50	2322007.48	GRAVEL ACCESS DRIVE
33	13863449.75	2322050.04	GRAVEL ACCESS DRIVE
34	13863384.48	2322028.52	GRAVEL ACCESS DRIVE
35	13863378.22	2322047.51	GRAVEL ACCESS DRIVE
36	13863443.73	2322068.13	GRAVEL ACCESS DRIVE
37	13863390.41	2321890.01	OZONE BLDG CORNER
38	13863376.94	2321930.06	OZONE BLDG CORNER
39	13863373.42	2321814.22	LOX CORNER
40	13863365.13	2321838.86	LOX CORNER
41	13863469.76	2321814.85	OFF-GAS CORNER
42	13863454.57	2321809.83	OFF-GAS CORNER
43	13863432.44	2322021.84	HSPS CORNER
44	13863427.08	2322037.30	HSPS CORNER
88	13863465.29	2321823.90	DECONSTRUCT UNIT
89	13863452.78	2321819.78	DECONSTRUCT UNIT
92	13863293.35	2321809.66	CENTER ACCESS MANHOLE
98	13863397.03	2321870.85	TRANSFORMER CORNER

MATCHLINE SEE SHEET C5

- NOTES:
- SEE STRUCTURAL SHEETS FOR ACTUAL BUILDING/FOUNDATION DIMENSIONS.
 - SEE DETAIL 1/SHEET S24 FOR GENERATOR FOUNDATION DETAILS FOR ADDITIVE ALTERNATE NO. 1.
 - SEE SHEET E13 FOR ELECTRICAL DETAILS FOR ADDITIVE ALTERNATE NO. 1.
 - SEE DETAIL 2/SHEET S24 FOR GENERATOR FOUNDATION DETAILS FOR ADDITIVE ALTERNATE NO. 2.
 - SEE SHEET E13 FOR ELECTRICAL DETAILS FOR ADDITIVE ALTERNATE NO. 2.

NOTES FOR ADDITIVE ALTERNATE NO. 1

NOTES FOR ADDITIVE ALTERNATE NO. 2



NO.	DATE	BY	DESCRIPTION
1	12/20/24	JRF	ISSUES / REVISIONS
2			
3			

CANYON REGIONAL WATER AUTHORITY
HAYS/CALDWELL WATER TREATMENT PLANT IMPROVEMENTS
PHASE 2

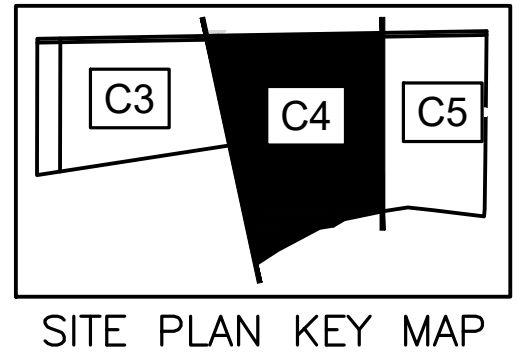
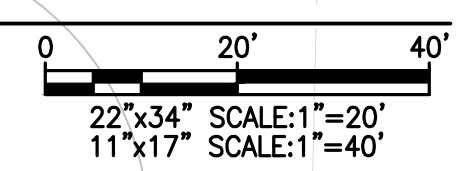
ENLARGED PLAN

7500 Ratton Blvd., Building 1, Suite 240
Austin, Texas 78735
Phone: (512) 381-8333
www.ardurra.com
Engineering License #E-10053
Arduzza Group, Inc.
Surveying Firm 0174088



DRAWING NO.:
C4
11 of 190
DRAWN BY: JRF
CHECKED BY: JEL
APPROVED BY: MJN
JOB NO.: 170100

1 ENLARGED PLAN
SCALE: 1" = 20'



C:\Users\jghison\Desktop\170100 Hays Caldwell Water Treatment Plant\Drawings\Plans\C4\170100-C4-C5-SITE PLANS.dwg
Thursday, December 19, 2024, 9:30am

TABLE 1 - FITTING COORDINATE SCHEDULE

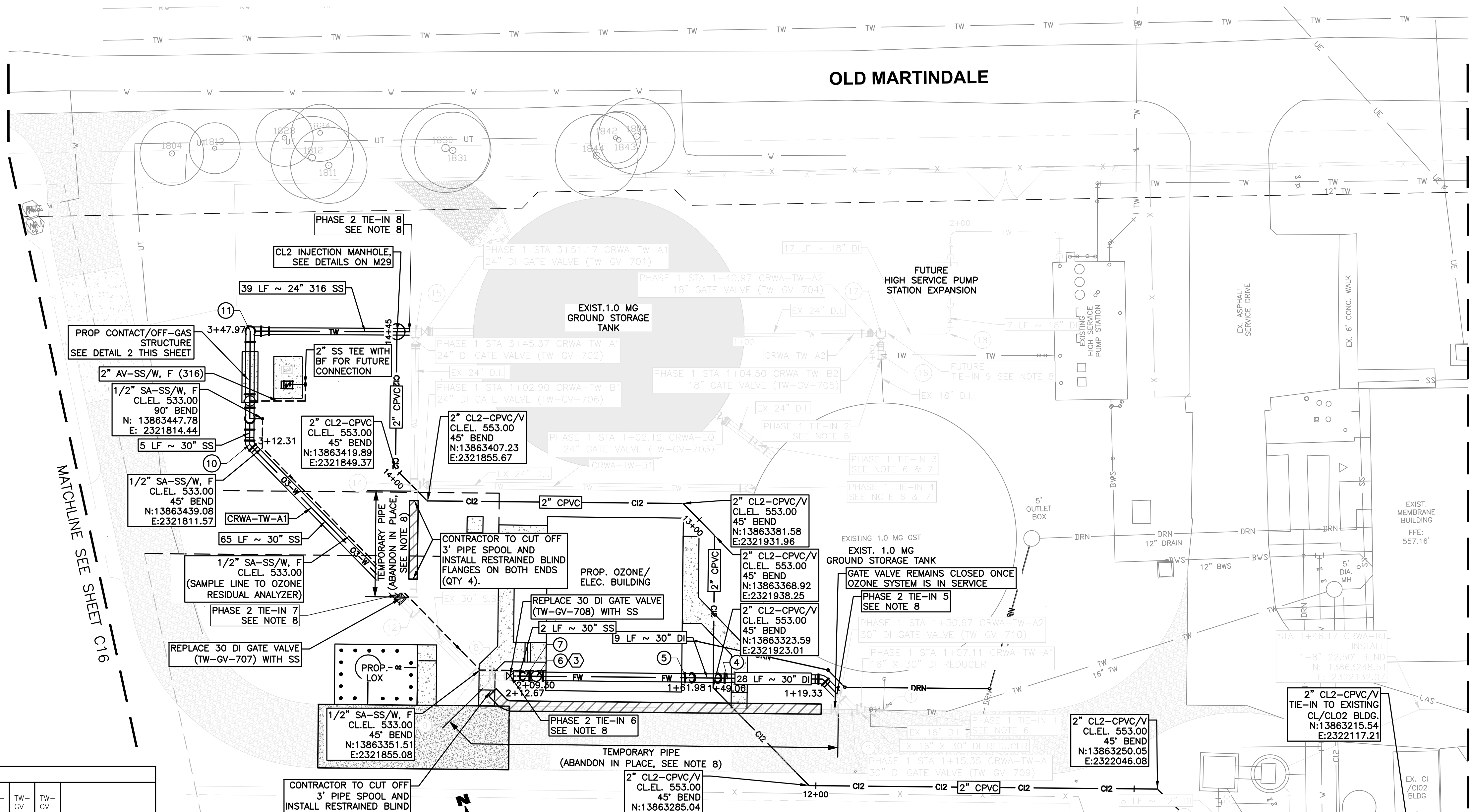
CRWA-TW-A1				
COORD POINT	STATION	NORTHING	EASTING	DESCRIPTION
(1)	1+00.00	13863303.17	23219711.64	18" x 18" MJ TEE
(2)	1+10.02	13863303.76	2321962.37	30" x 30" MJ WYE
(3)	1+22.67	13863338.28	2321859.27	30" x 45" MJ BEND
(4)	1+52.77	13863324.68	2321928.21	30" x 45" MJ BEND
(5)	1+65.69	13863328.80	2321915.96	30" x 45" MJ BEND
(6)	2+09.30	13863343.87	2321871.12	30" x 30" SS TEE
(7)	2+12.67	13863344.95	2321867.92	30" x 45" SS BEND
(8)	2+26.72	13863344.95	2321867.92	30" x 45" SS BEND
(9)	2+31.72	13863350.24	2321853.33	30" x 30" SS WYE
(10)	3+12.31	13863441.30	2321808.09	30" x 45" SS BEND
(11)	3+47.97	13863475.17	2321819.26	30" x 90" MJ BEND
(12)	2+60.72	13863375.69	2321840.69	30" x 30" SS WYE
CRWA-TW-A2				
COORD POINT	STATION	NORTHING	EASTING	DESCRIPTION
(17)	1+43.05	13863413.07	2322007.56	18" x 18" MJ TEE
CRWA-TW-B2				
COORD POINT	STATION	NORTHING	EASTING	DESCRIPTION
(16)	1+00.00	13863406.82	2322005.50	18" x 18" MJ TEE
CRWA-TW-B1				
COORD POINT	STATION	NORTHING	EASTING	DESCRIPTION
(14)	1+16.44	13863413.29	2321853.33	24" x 24" MJ TEE
(15)	1+60.59	13863458.88	2321868.65	24" x 24" MJ TEE
CRWA-RJ1				
COORD POINT	STATION	NORTHING	EASTING	DESCRIPTION
(19)	1+08.56	13863231.69	2322059.86	12" x 45" BEND
(20)	1+13.56	13863229.52	2322055.35	12" x 22.5" BEND
(21)	1+83.97	13863225.28	2321978.90	12" x 22.5" BEND

NOTE: 1. COORDINATE POINTS GIVEN ARE LOCATED AT FITTING CENTERLINE INTERSECTION.

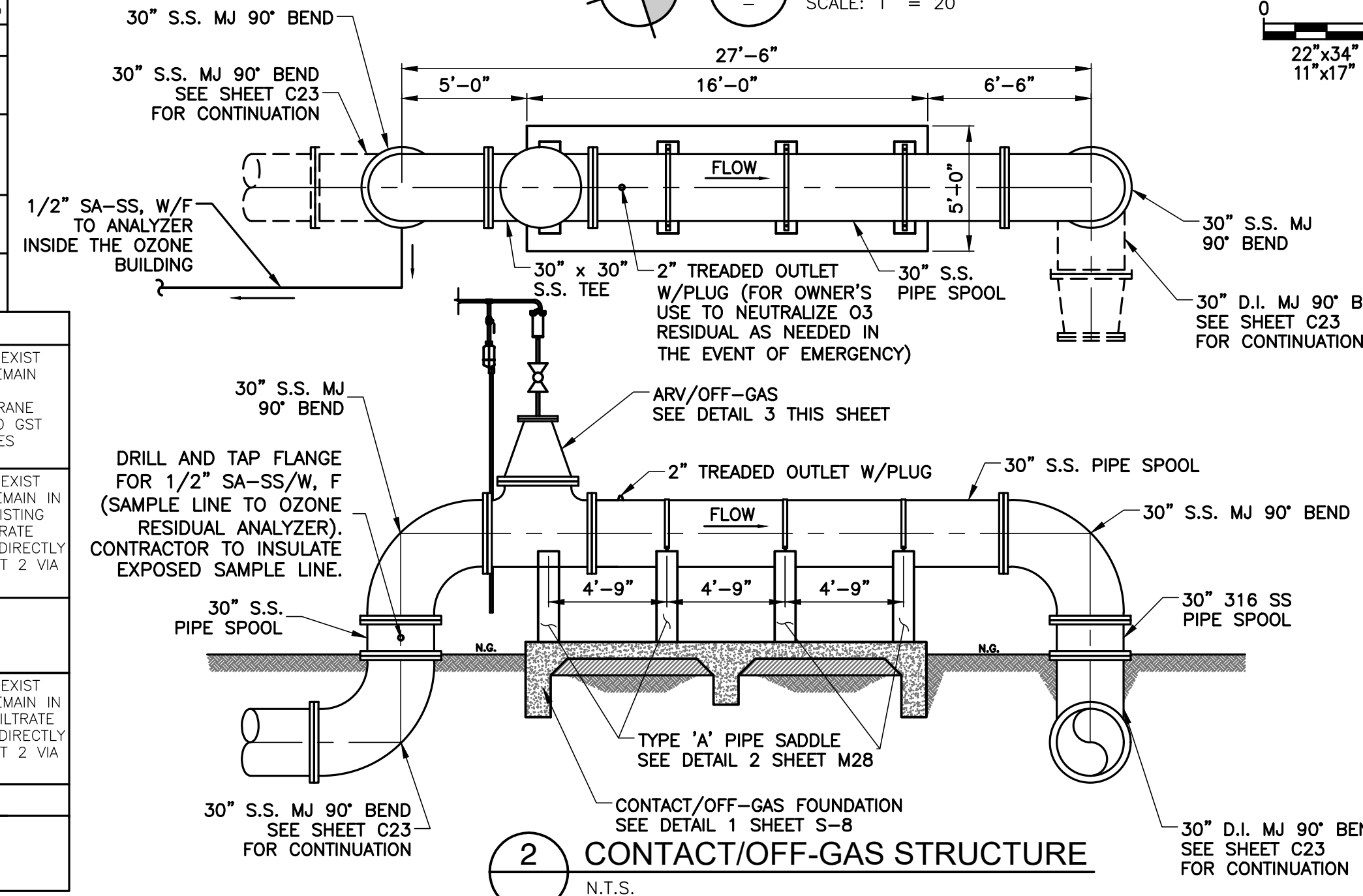
SCHEDULE NOTES:
 CL = CLOSED
 OP = OPEN

ISOLATION VALVE OPERATION SCHEDULE

TIE-IN LOCAT ON	TIE-IN DESCRIPTION	EXIST. GST INLET VALVE/OUTLET VALVE	ISOLATION VALVE OPERATION SCHEDULE										PLANT TEMPORARY SHUT-DOWN REQUIRED
			TW-GV-710	TW-GV-708	TW-GV-707	TW-GV-706	TW-GV-709	TW-GV-701	TW-GV-702	TW-GV-703	TW-GV-704	TW-GV-705	
PHASE 1 CONSTRUCTION (FOR REFERENCE PURPOSE)													
1	CONNECT EXISTING GST 16" INLET TO NEW WYE	CL	-	-	-	-	-	-	-	-	-	-	YES, TO BE SCHEDULE DURING LOW DEMAND.
2	CONNECT NEW 18" TEE TO EXISTING GST 18" OUTLET AND 18" TW FEED TO HSPS	CL	-	-	-	-	-	-	-	-	-	-	YES, TO BE SCHEDULE DURING LOW DEMAND.
3	CONNECT NEW 24" TW-B1 TO EXIST. GST	CL	-	-	-	-	-	-	-	-	-	-	YES, TO BE SCHEDULE DURING LOW DEMAND.
4	CONNECT NEW 24" EQ TO EXIST. GST	CL	-	-	-	-	-	-	-	-	-	-	YES, TO BE SCHEDULE DURING LOW DEMAND.
PHASE 2 CONSTRUCTION													
5, 6	CONNECT OZONE INLET TO 30" WYE, AND CONNECT OZONE OUTLET TO 30" WYE	OP	CL	CL	CL	OP	OP	OP	OP	OP	OP	OP	NOT REQUIRED. BOTH EXIST AND NEW GST CAN REMAIN IN SERVICE TO SERVE EXISTING HSPS. MEMBRANE FILTRATE DELIVERED TO GST 2 VIA TEMPORARY PIPES INSTALLED.
7, 8	CONNECT 30" WYE TO 30" SS, AND CONNECT 24" TO 24" TEE U/S NEW GST INLET	OP	CL	CL	CL	OP	OP	CL	CL	OP	OP	OP	NOT REQUIRED. BOTH EXIST AND NEW GST CAN REMAIN IN SERVICE TO SERVE EXISTING HSPS. MEMBRANE FILTRATE DELIVERED TO GST 1 DIRECTLY AND CONVEYED TO GST 2 VIA 24" CRWA-EQ LINE.
	REPLACE TW-GV-708 AND TW-GV-707 WITH SS GV	OP	CL	CL	CL	CL	CL	CL	CL	OP	OP	OP	NOT REQUIRED. ONLY EXIST GST REMAINS IN SERVICE TO SERVE EXISTING HSPS.
10, 11, 12, 13	DECOMMISSIONING TEMP 30" OZONE BYPASS, AND DECOMMISSIONING TEMP D/S OF OZONE AND U/S OF GSTS	OP	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	NOT REQUIRED. BOTH EXIST AND NEW GST CAN REMAIN IN SERVICE. MEMBRANE FILTRATE DELIVERED TO GST 1 DIRECTLY AND CONVEYED TO GST 2 VIA 24" CRWA-EQ LINE.
FUTURE CONSTRUCTION (FOR REFERENCE PURPOSE)													
9	CONNECT NEW 18" HSPS SUCTION TO 18" TEE D/S OF BOTH GSTS	OP	CL	CL	CL	OP	OP	CL	CL	CL	CL	CL	NOT REQUIRED. ONLY EXIST GST REMAINS IN SERVICE TO SERVE EXISTING HSPS.

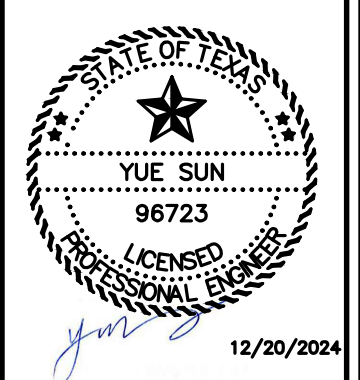


1 ENLARGED YARD PIPING PLAN - OZONE BUILDING & G.S.T.
 SCALE: 1" = 20'



GENERAL NOTES:

- ALL NEW PIPE SHALL BE RESTRAINED JOINT PIPE, MATERIAL AS SHOWN.
- REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF UTILITIES AT BUILDINGS AND STRUCTURES.
- ROUTING IS SHOWN IN GENERAL FOR PIPE 3" DIAMETER AND SMALLER. PIPING SHALL BE FIELD ROUTED. VERIFY EXACT PIPING CONFIGURATION WITH OWNER PRIOR TO INSTALLATION.
- REFER TO SHEET C23 FOR PROFILES OF CRWA-TW-A1, CRWA-TW-A2.
- PHASE 1 REFER TO SHEET C24 FOR PROFILES OF CRWA-TW-B1, CRWA-TW-B2 AND CRWA-TW-B3.
- TIE-INS AT THESE LOCATIONS WOULD REQUIRE TEMPORARY SHUT-DOWN OF PLANT. CONTRACTOR TO COORDINATE WITH CRWA PRIOR TO COMMENCEMENT OF TIE-IN WORK. SUBMIT A PRE-SHUT DOWN WORK PLAN FOR ENGINEER AND CRWA REVIEW AND APPROVAL. THE WORK PLAN SHALL INCLUDE ANTICIPATED SHUT-DOWN DURATION. THIS WORK SHALL TAKE PLACE DURING LOW DEMAND SEASON.
- PHASE 2 CONTRACTOR SHALL REMOVE EXISTING OZONE TANK MAKING THE CONNECTIONS. UPON COMPLETION OF THE TIE-INS TANK SHALL BE DISMANTLED PER OPERATION 33.01.10.58 PRIOR TO BEING PLACED BACK IN SERVICE.
- THE VALVE OPERATION SCHEDULE IS FOR CONTRACTOR'S USE AS A GENERAL GUIDANCE TO MAKE TIE-INS DURING PHASE 1 AND PHASE 2 CONSTRUCTION ABANDON TEMPORARY PIPING SYSTEM IN PLACE. UPON COMPLETION OF PHASE 2 IS COMPLETE. INSTALL RESTRAINED BLIND FLANGES ON BOTH ENDS.

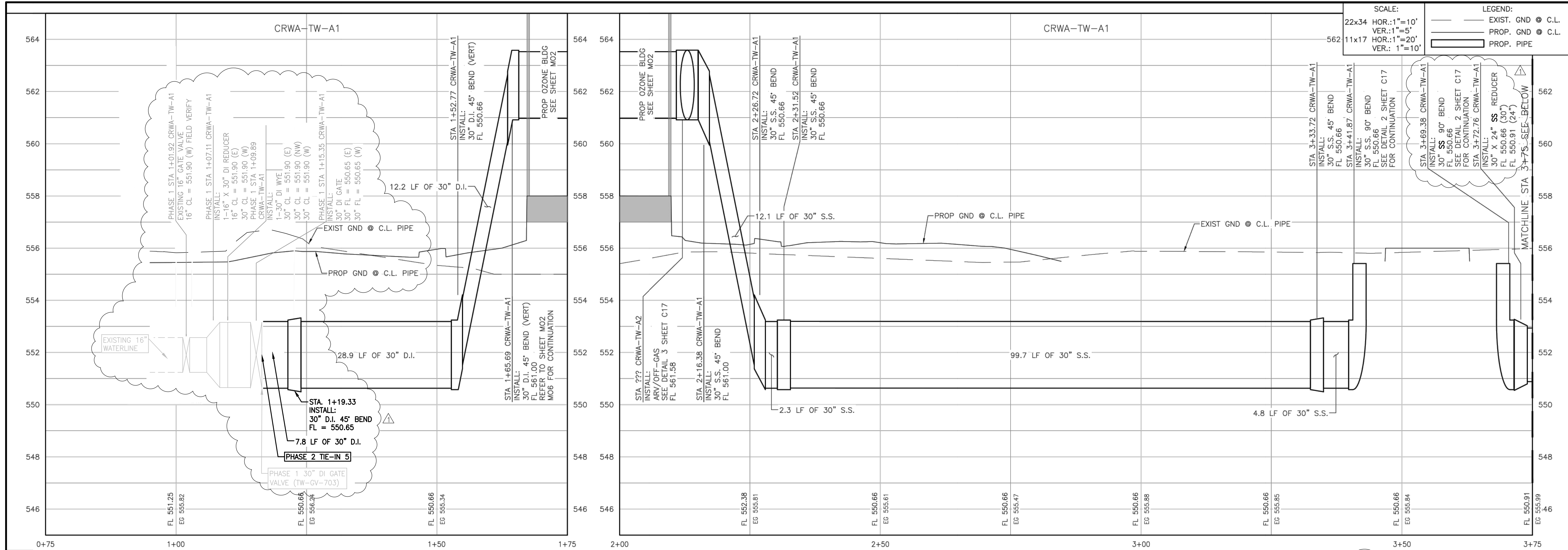


NO.	DATE	ISSUES / REVISIONS	BY

CANYON REGIONAL WATER AUTHORITY
 HAYS/CALDWELL WATER TREATMENT PLANT IMPROVEMENTS
 PHASE 2
ENLARGED YARD PIPING PLAN - OZONE BUILDING & G.S.T.

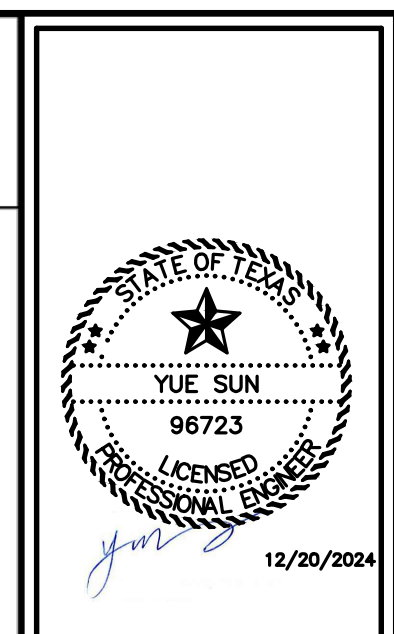
7500 Ratton Blvd., Building 1, Suite 240
 Austin, Texas 78735
 Phone: (512) 381-8333
 www.Arduro.com
 Engineering License #F-10053
 Alabama Group, Inc.
 Surveying Firm 1019408

DRAWING NO.:
C17
 25 of 190
 DRAWN BY: JRF
 CHECKED BY: JEL
 APPROVED BY: MJN
 JOB NO.: 170100

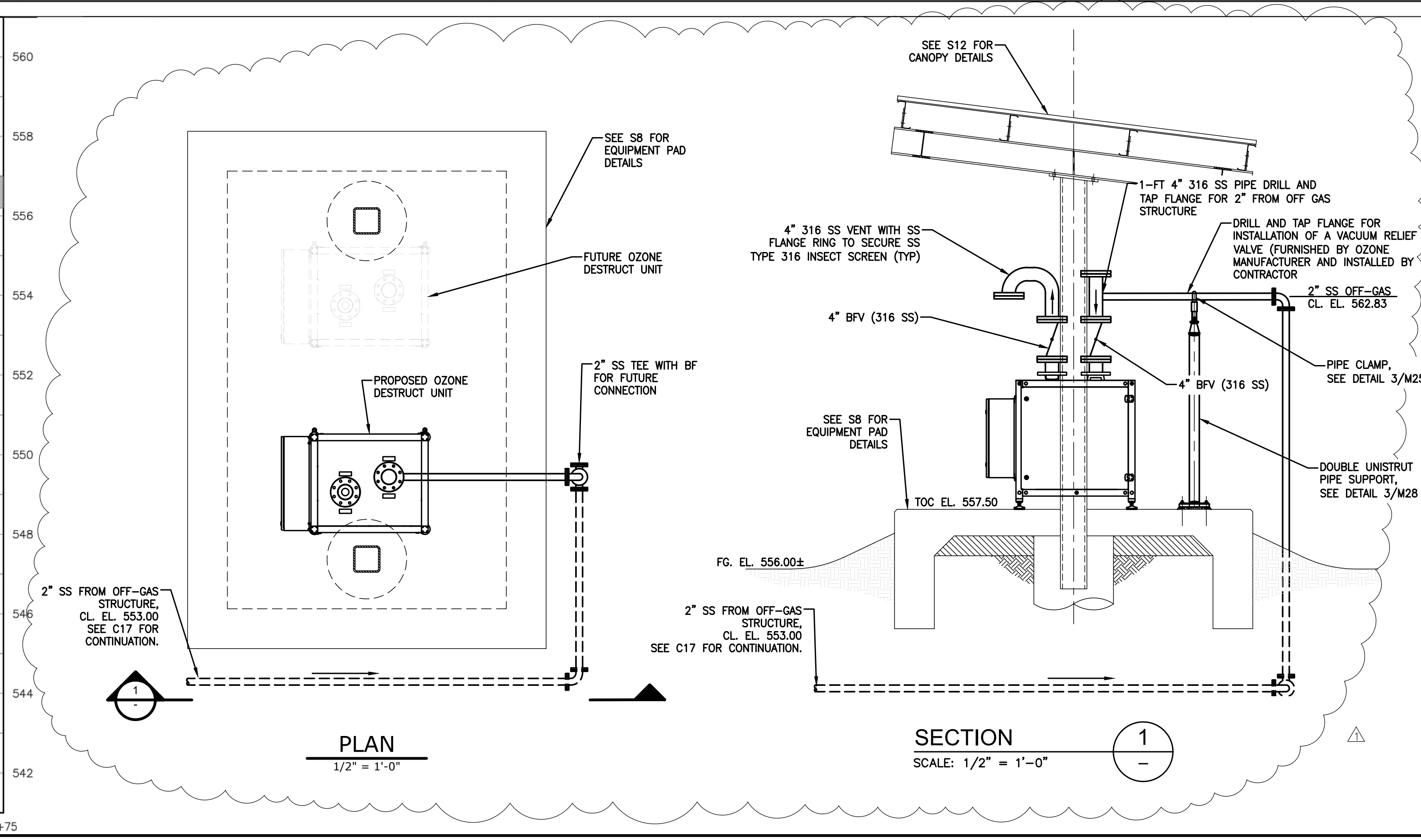
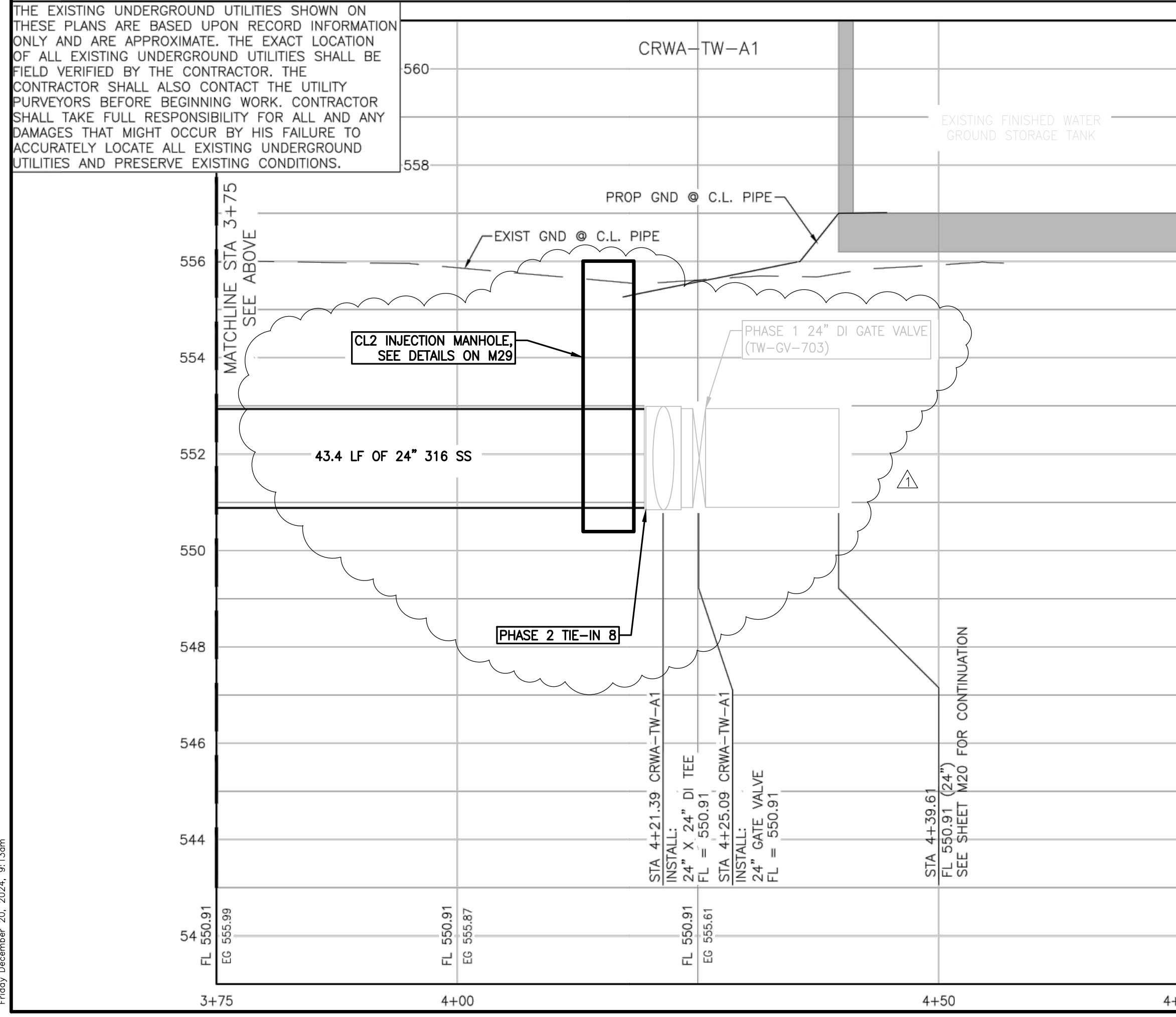


SCALE:
 22x34 HOR.: 1" = 10'
 11x17 VER.: 1" = 5'
 HOR.: 1" = 20'
 VER.: 1" = 10'

LEGEND:
 --- EXIST. GND @ C.L.
 --- PROP. GND @ C.L.
 --- PROP. PIPE



NO.	DATE	BY	DESCRIPTION
1	12/20/24	J. SUN	ISSUES / REVISIONS
2			
3			
4			
5			
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8			
9			
10			



THE EXISTING UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY AND ARE APPROXIMATE. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO CONTACT THE UTILITY PURVEYORS BEFORE BEGINNING WORK. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL AND ANY DAMAGES THAT MIGHT OCCUR BY HIS FAILURE TO ACCURATELY LOCATE ALL EXISTING UNDERGROUND UTILITIES AND PRESERVE EXISTING CONDITIONS.

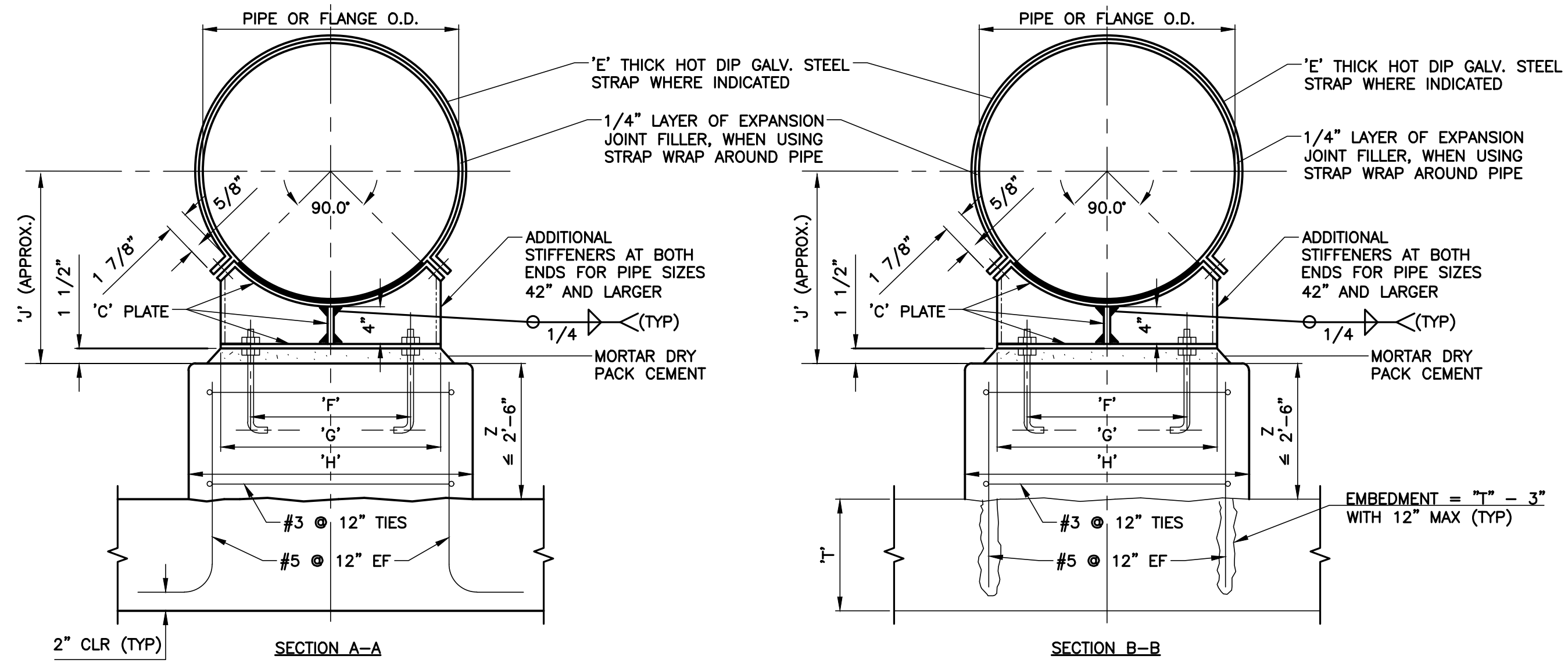
CANYON REGIONAL WATER AUTHORITY
 HAYS/CALDWELL WATER TREATMENT PLANT IMPROVEMENTS
 PHASE 2
YARD PIPING PROFILES -
CRWA-TW-A1, CRWA-TW-A2

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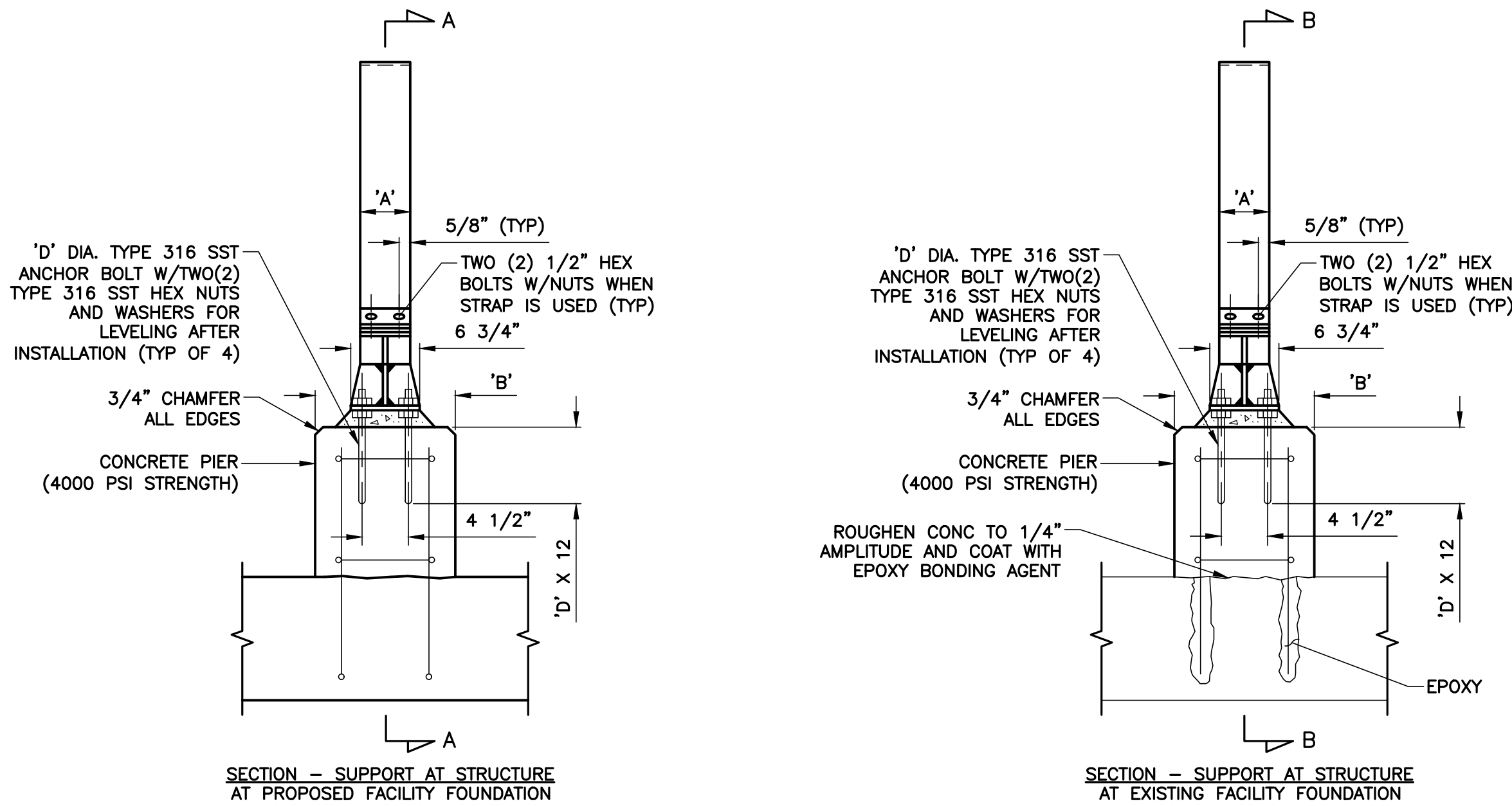
DRAWING NO.: **C23**
 30 of 190
 DRAWN BY: JRF
 CHECKED BY: JEL
 APPROVED BY: MJM
 JOB NO.: 170100

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 Friday, December 20, 2024, 8:15am



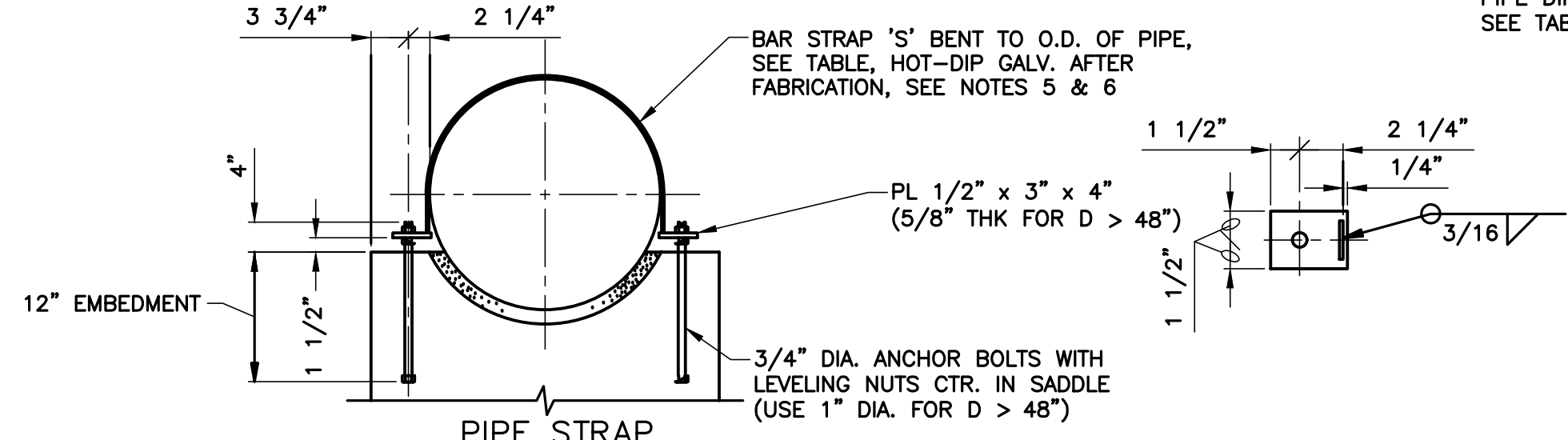
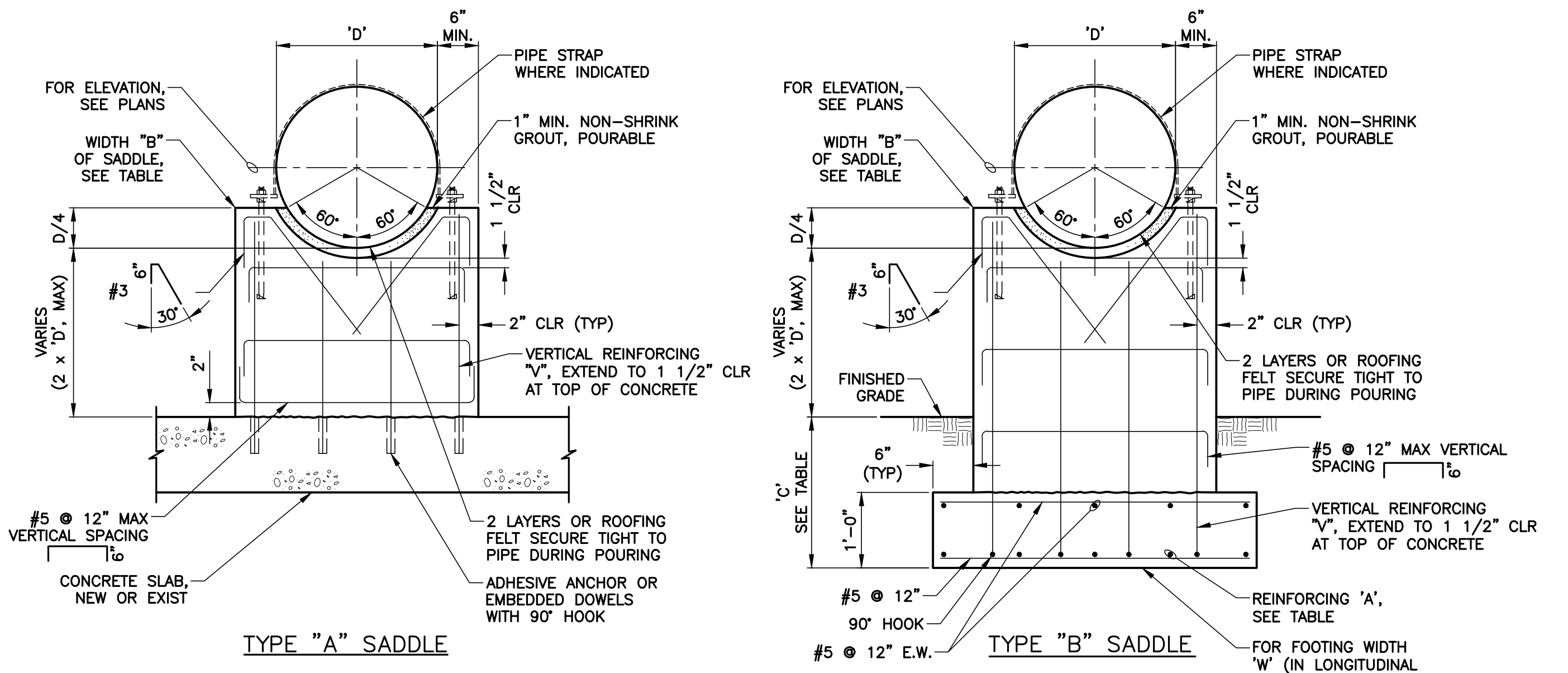
DIMENSIONS IN INCHES

NOMINAL PIPE SIZE	'A'	'B'	'C'	'D'	'E'	SUPPORTING							
						PIPE				FLANGE			
						'F'	'G'	'H'	'J'	'F'	'G'	'H'	'J'
6	4	12	3/8	5/8	1/4	4 1/2	8	14	10	6 1/2	11	16	13
8	4	12	3/8	5/8	1/4	5	9 1/2	14	11	7 1/2	13	18	14
10	4	12	3/8	5/8	1/4	6	11	16	12	9	15	20	15
12	4	12	3/8	5/8	1/4	7	13	18	13	10	17	22	16
14	4	12	3/8	5/8	1/4	8	13	18	14	11	18	23	17
16	4	12	3/8	5/8	1/4	9	15	21	15	12	20	26	18
18	4	12	3/8	5/8	1/4	10	16	22	16	13	21	26	19
20	5	12	3/8	5/8	3/8	10	18	24	17	15	23	28	21
22	5	12	3/8	5/8	3/8	12	19	24	18	16	25	30	22
24	5	12	3/8	5/8	3/8	13	21	26	19	16	26	32	23
26	5	12	3/8	3/4	3/8	14	22	28	20	18	28	34	24
30	5	12	3/8	3/4	3/8	16	25	30	22	20	31	36	26
34	5	15	3/8	3/4	3/8	18	28	33	24	22	35	41	29
36	6	15	3/8	3/4	3/8	19	29	34	25	24	36	42	30
42	6	18	1/2	1	3/8	21	33	39	28	27	41	47	33



- NOTES:**
- IF SUPPORT IS SUBMERGED OR LOCATED BELOW THE TOP OF WALL IN WATER BEARING STRUCTURE, MATERIAL FOR ANCHOR BOLTS AND STRAP SHALL BE STAINLESS STEEL. IN ALL OTHER AREAS, MATERIAL FOR ANCHOR BOLTS AND STRAP SHALL BE HOT-DIP GALVANIZED STEEL UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 - MIN "T" = 12".
 - WHEN SUPPORTING PIPE AND FLANGE ALTERNATELY ON THE SAME LINE, CONCRETE PIERS FOR PIPE SUPPORTS SHALL ALL HAVE THE SAME DIMENSIONS 'H' FROM FLANGE SUPPORT.
 - HOT DIP GALVANIZE ALL MATERIALS AFTER FABRICATION.
 - WHERE UTILIZED UNDER BENDS, OR OTHERWISE SKEWED, DIMENSIONS TO BE INCREASED AND SADDLE FABRICATED AS ACCEPTABLE TO ENGINEER.
 - IF "Z" IS 6" OR LESS, OMIT REINFORCING STEEL. ANCHOR BOLTS TO PROJECT MIN 6" INTO FLOOR.

1 PIPE SUPPORT DETAIL
N.T.S.

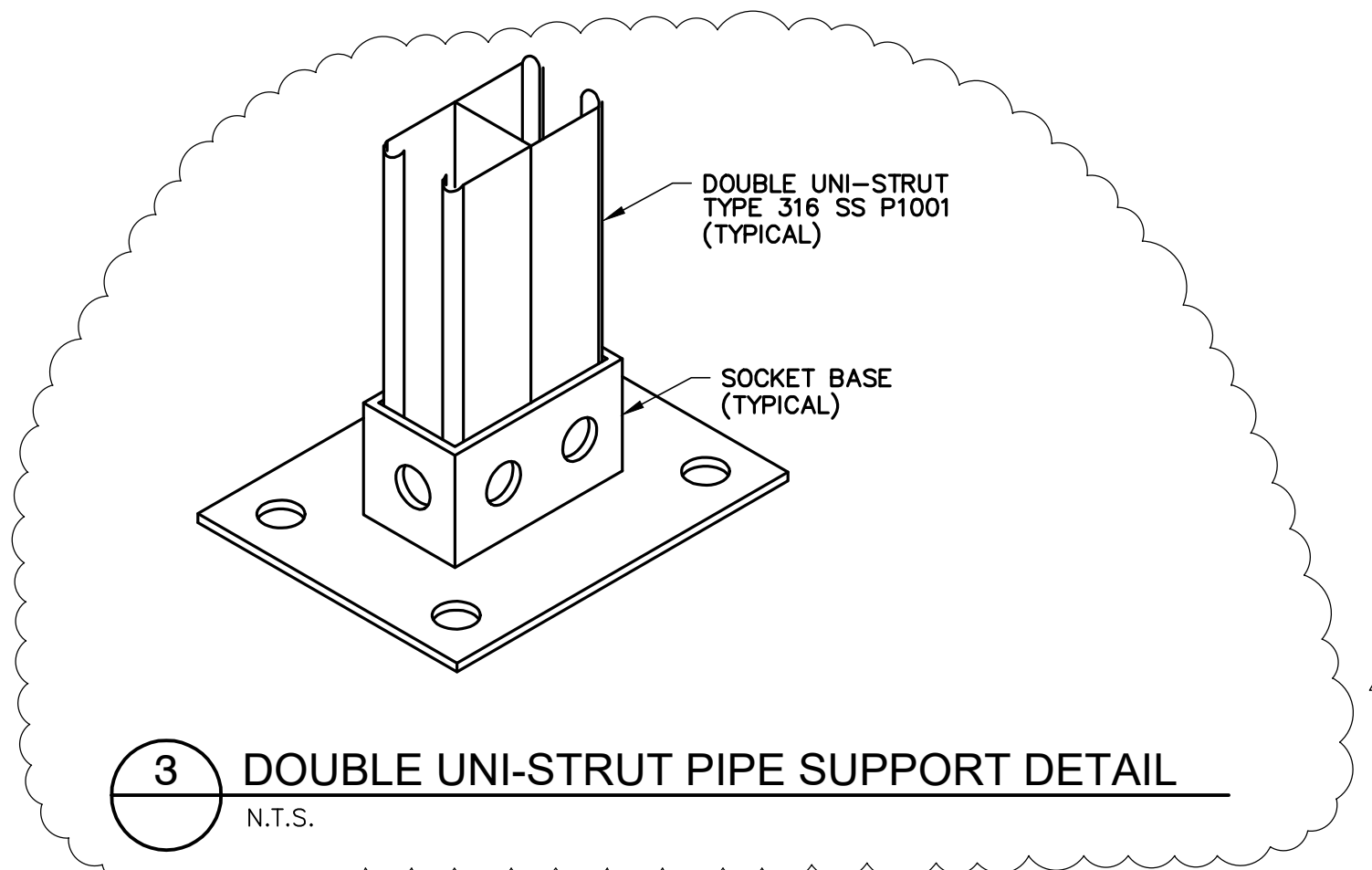


PIPE SADDLE TABLE

PIPE DIAMETER D	SADDLE WIDTH B	LAYERS OF REINFORCING	VERTICAL REINFORCING V	PIPE STRAP SIZE S	NO. OF STRAPS	FOOTING WIDTH W	REINFORCING A	FOOTING DEPTH C
D<12	6"	1 (CTRD)	#5@12"	3/16"x2"	1	1'-6"	#5@12"	2'-0"
12<D<24	8"	1 (CTRD)	#5@12"	3/16"x2 1/2"	1	2'-0"	#5@12"	2'-0"
24<D<36	10"	2 (EF)	#5@12"	1/4"x2"	1	3'-0"	#5@12"	2'-0"
36<D<48	12"	2 (EF)	#5@12"	1/4"x3"	1	4'-0"	#5@12"	2'-0"
48<D<60	16"	2 (EF)	#6@12"	3/8"x3"	2	6'-0"	#5@6"	2'-0"
60<D<72	18"	2 (EF)	#6@12"	3/8"x3"	2	8'-0"	#5@6"	2'-0"

- NOTES:**
- FOR 'b' = 10" OR THICKER, USE 2 LAYERS OF REINFORCING, TURN HORIZONTAL BARS 90° TO HOOK AROUND VERTICALS, 1 1/2" CLEAR OF CONCRETE.
 - FORM 3/4" BEVEL ON ALL EXPOSED CORNERS OF SUPPORT.
 - USE TYPE "A" SADDLE IN ALL LOCATIONS WHERE A SLAB (NEW OR EXISTING) OCCURS. USE TYPE "B" IN OTHER LOCATIONS.
 - FOR LOCATIONS WHERE PIPE STRAP IS REQUIRED, SEE DRAWINGS. UNLESS INDICATED OTHERWISE A STRAP IS NOT REQUIRED.
 - AT SUBMERGED CONDITIONS, STRAP SHALL BE STAINLESS STEEL.
 - WHERE NOTED ON DRAWINGS, PROVIDE 3/4" BY STRAP WIDTH PLUS 1" WIDE NEOPRENE PAD BELOW STRAP.

2 CONCRETE PIPE SUPPORT DETAIL
N.T.S.



3 DOUBLE UNI-STRUT PIPE SUPPORT DETAIL
N.T.S.



ISSUES / REVISIONS

NO.	DATE	BY	DESCRIPTION
1	12/20/24	YUE SUN	AR000003

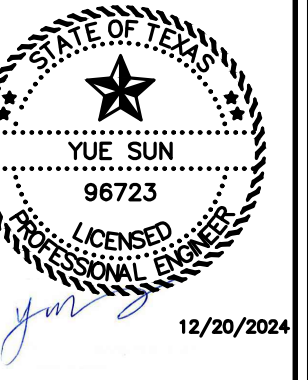
CANYON REGIONAL WATER AUTHORITY
 HAYS/CALDWELL WATER TREATMENT PLANT IMPROVEMENTS
 PHASE 2
PIPE SUPPORT DETAILS

7500 Rialto Blvd., Building 1, Suite 240
 Austin, Texas 78735
 Phone: (512) 381-8333
 www.ardurra.com
 Engineering License #F-10053
 Surveying Firm ID#4608



DRAWING NO.: **M28**
 100 of 190
 DRAWN BY: JS/JRF
 CHECKED BY: MJN
 APPROVED BY: TRJ
 JOB NO.: 170100

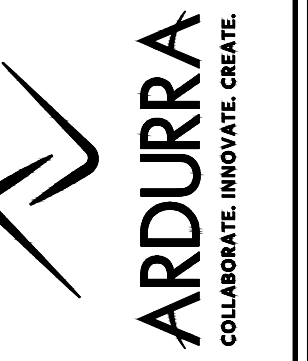
C:\Users\jshinson\Desktop\170100_Hays Caldwell Water Treatment Plant\Drawings\Plans\Mech\170100-M28-BE-TALL.dwg Friday, December 20, 2024, 9:05am



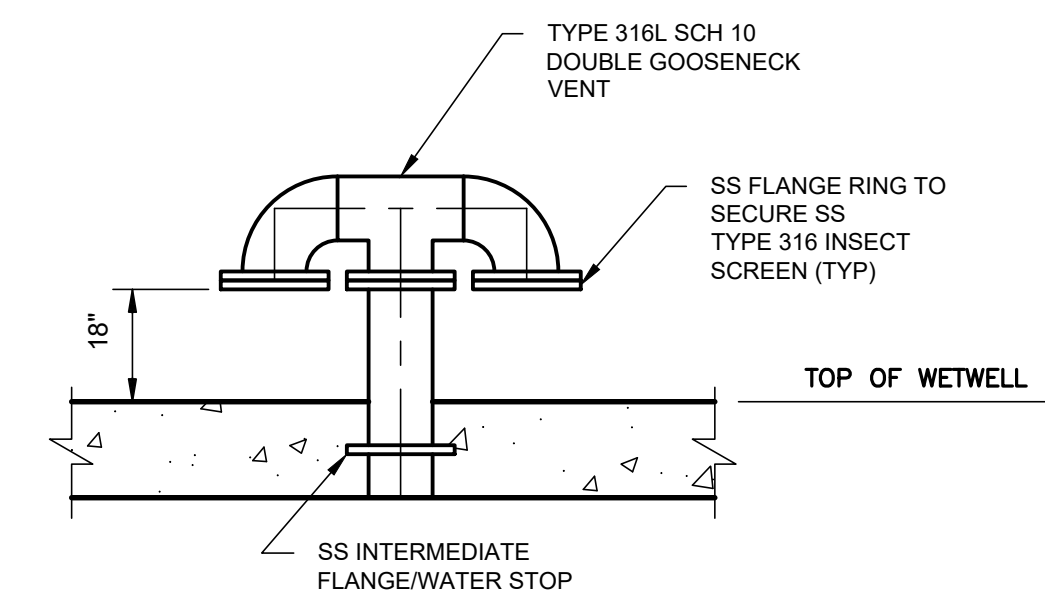
NO.	DATE	ISSUES / REVISIONS	BY
1	12/20/24	ADDENDUM 3	

**CANYON REGIONAL WATER AUTHORITY
HAYS/CALDWELL WATER TREATMENT PLANT IMPROVEMENTS
PHASE 2
STANDARD DETAILS**

7500 Rialto Blvd., Building 1, Suite 240
Austin, Texas 78735
Phone: (512) 381-8333
www.ardurra.com
Engineering License #E-10053
Arduora Group, Inc.
Surveying Firm ID174088



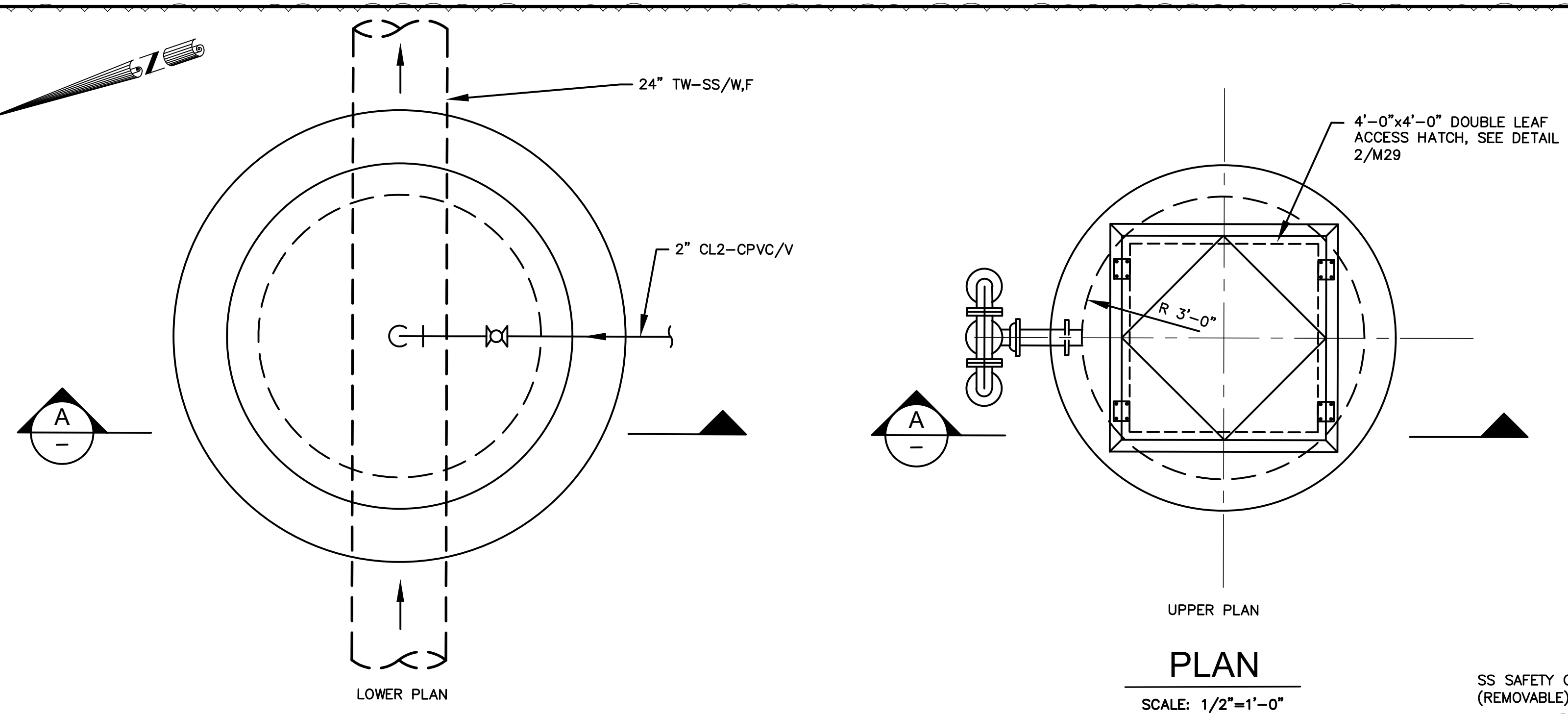
DRAWING NO.: **M29**
100 of 190
DRAWN BY: JS/JRF
CHECKED BY: M/JN
APPROVED BY: TR/J
JOB NO.: 170100



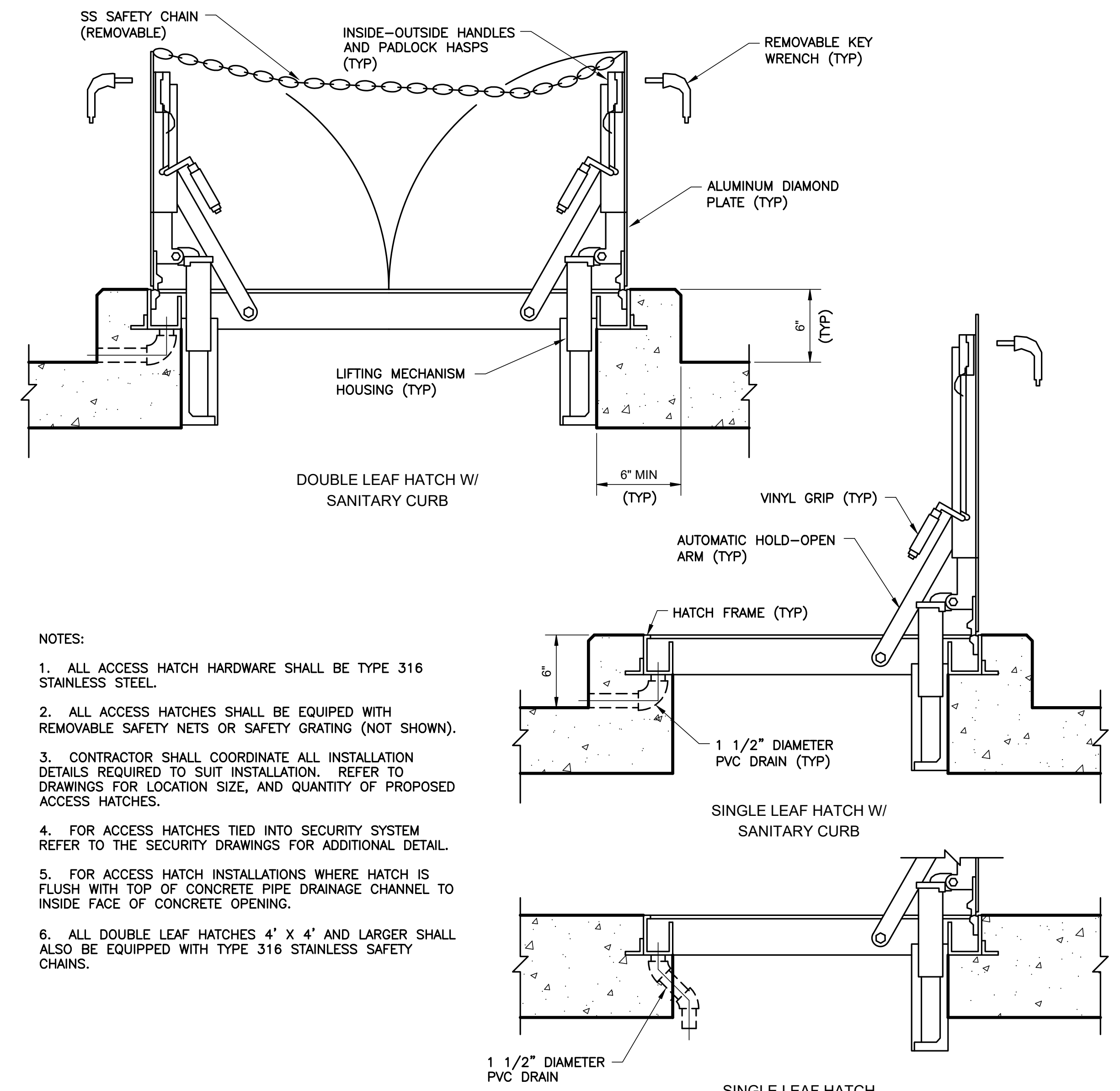
NOTE:
INSECT SCREEN SHALL BE 16 MESH USING WIRE 0.020 INCHES IN DIAMETER (46.2% OPEN AREA) BY CLEVELAND WIRE CLOTH COMPANY.

PUMP WELL OR RESERVIOR DOUBLE GOOSEBACK VENT

DETAIL 3
NTS

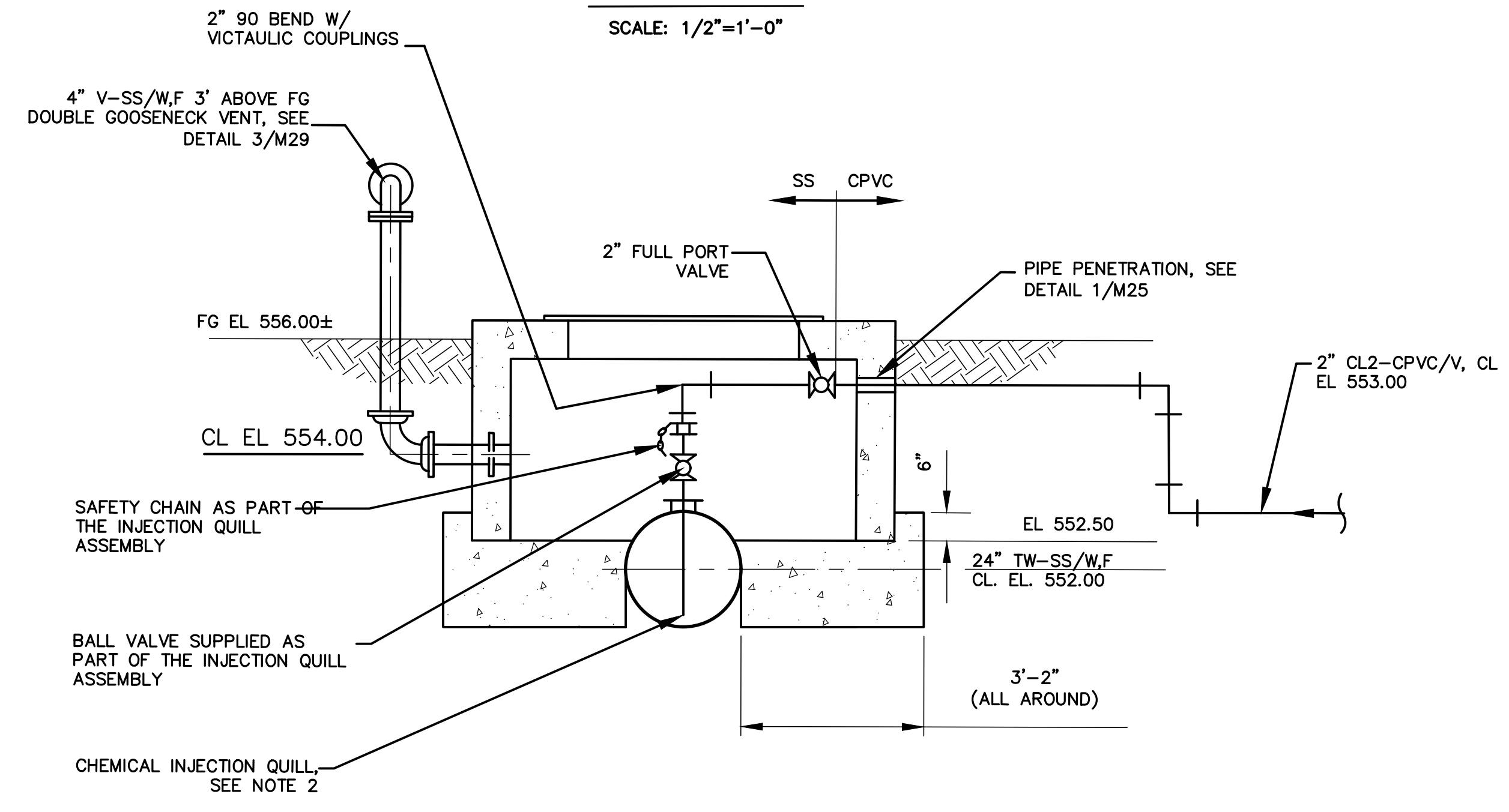


PLAN
SCALE: 1/2"=1'-0"



- NOTES:**
1. ALL ACCESS HATCH HARDWARE SHALL BE TYPE 316 STAINLESS STEEL.
 2. ALL ACCESS HATCHES SHALL BE EQUIPPED WITH REMOVABLE SAFETY NETS OR SAFETY GRATING (NOT SHOWN).
 3. CONTRACTOR SHALL COORDINATE ALL INSTALLATION DETAILS REQUIRED TO SUIT INSTALLATION. REFER TO DRAWINGS FOR LOCATION SIZE, AND QUANTITY OF PROPOSED ACCESS HATCHES.
 4. FOR ACCESS HATCHES TIED INTO SECURITY SYSTEM REFER TO THE SECURITY DRAWINGS FOR ADDITIONAL DETAIL.
 5. FOR ACCESS HATCH INSTALLATIONS WHERE HATCH IS FLUSH WITH TOP OF CONCRETE PIPE DRAINAGE CHANNEL TO INSIDE FACE OF CONCRETE OPENING.
 6. ALL DOUBLE LEAF HATCHES 4' X 4' AND LARGER SHALL ALSO BE EQUIPPED WITH TYPE 316 STAINLESS SAFETY CHAINS.

DETAIL 2
NTS



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

- CHEMICAL INJECTION MANHOLE NOTES:**
1. CONTRACTOR TO PROVIDE PRECAST INJECTION MANHOLE. DESIGN STRUCTURE TO RESIST BUOYANCY, SEE SPECIFICATIONS 02560 FOR DESIGN REQUIREMENTS OF THE PRE-CAST CONCRETE STRUCTURE. CONTRACTOR TO COORDINATE WITH SUPPLIER FOR WALL PIPE PENETRATION DIMENSIONS AND ELEVATIONS. SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW AND APPROVAL.
 2. CHEMICAL SOLUTION INJECTION QUILL TO BE DESIGNED AND FURNISHED. CHEMICAL INJECTION QUILL SHALL BE MODEL HC-200-H-H-24-DH-05 BY SAF-T-FLO OR ENGINEER APPROVED EQUAL. DIFFUSER HOLES SHALL BE 3/8" IN DIAMETER, WITH A TOTAL OF 16, EQUALLY SPACED AT 3" ON OPPOSITE SIDES OF THE INJECTION TUBE.

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

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