

TRINIDAD RANCHERIA WATER TREATMENT FACILITY PROJECT

CHER-AE HEIGHTS INDIAN COMMUNITY OF THE TRINIDAD RANCHERIA - CALIFORNIA

FUNDED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES, UNDER THE SMALL COMMUNITY DROUGHT RELIEF PROGRAM

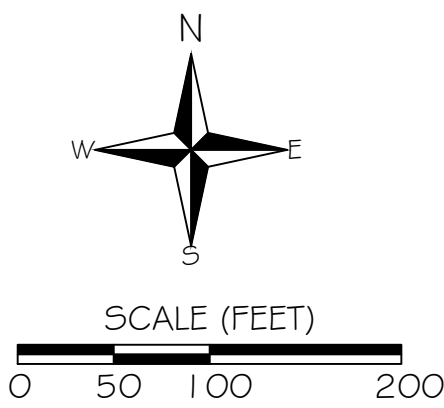


PROJECT
LOCATION

CHER-AE HEIGHTS INDIAN COMMUNITY
OF THE TRINIDAD RANCHERIA
POST OFFICE BOX 630
TRINIDAD, CA 95570

LESLIE SANDERS
TRANSPORTATION AND LAND USE DIRECTOR
PHONE: (707) 601-5754
LSANDERS@TRINIDADRANCHERIA.COM

STETSON ENGINEERS, INC.
ALLAN RICHARDS, P.E.
2171 E. FRANCISCO BLVD. SUITE K
SAN RAFAEL, CALIFORNIA 94901
PHONE: (415) 457-0701
FACSIMILE: (415) 457-1638
ALLANR@STETSONENGINEERS.COM



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

ENTIRE PROJECT
TITLE SHEET; LOCATION MAP

DATE: JUNE 13, 2025	DWG No.
SCALE: AS INDICATED	G-I
PROJECT No.: 2789-003	SHEET No.
	1 OF 48

TRINIDAD RANCHERIA WATER TREATMENT FACILITY PROJECT

CHER-AE HEIGHTS INDIAN COMMUNITY OF THE TRINIDAD RANCHERIA - CALIFORNIA

FUNDED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES, UNDER THE SMALL COMMUNITY DROUGHT RELIEF PROGRAM

ENTIRE PROJECT

GENERAL - ENTIRE PROJECT		
SHEET	DWG.	DESCRIPTION
1.	G-1	TITLE SHEET; LOCATION MAP
2.	G-2	FULL PROJECT SHEET INDEX
3.	G-3	WTF FENCING PLAN

PART I - POTABLE WATER TANK

GENERAL - POTABLE WATER TANK		
SHEET	DWG.	DESCRIPTION
4.	G-4	PART I POTABLE WATER TANK GENERAL NOTES; SURVEY NOTES; AND CULTURAL MONITORING

CIVIL - POTABLE WATER TANK

SHEET	DWG.	DESCRIPTION
5.	C-1	OVERVIEW TANK GRADING PLAN
6.	C-2	GRADING PLAN VIEW
7.	C-3	GRADING SECTIONS 1 AND 2
8.	C-4	GRADING SECTIONS 3 AND 4
9.	C-5	DRAINAGE PLAN

CST TANK AND TANK FOUNDATION DETAILS

SHEET	DWG.	DESCRIPTION
10.	T-1	CST TANK DETAILS
11.	T-2	CST TANK DETAILS
12.	T-3	CST TANK DETAILS
13.	T-4	CST TANK GENERAL AND FOUNDATION NOTES
14.	T-5	CST TANK FOUNDATION DETAILS

PART II - WATER TREATMENT FACILITY

GENERAL - WATER TREATMENT FACILITY		
SHEET	DWG.	DESCRIPTION
15.	G-5	PART II WTF GENERAL NOTES; SURVEY NOTES; AND CULTURAL MONITORING
16.	G-6	PART II WTF ABBREVIATIONS; REFERENCE
17.	G-7	PROCESS SCHEMATIC
18.	G-8	SITE PLAN LAYOUT

CIVIL - WATER TREATMENT FACILITY

SHEET	DWG.	DESCRIPTION
19.	C-6	GRADING PLAN
20.	C-7	GRADING SECTIONS
21.	C-8	BUILDING FOUNDATION PLAN - PIER, FOUNDATION, SLAB, AND WALL
22.	C-9	WTF BUILDING FOUNDATION SECTION
23.	C-10	WTF BUILDING FOUNDATION DETAILS
24.	C-11	WTF BUILDING FOUNDATION DETAILS CONTINUED
25.	C-12	WTF BUILDING FOUNDATION - FLOOR DRAIN AND PIPE CHASE PLAN
26.	C-13	WTF BUILDING FOUNDATION - FLOOR DRAIN AND PIPE CHASE SECTIONS
27.	C-14	WTF BUILDING FOUNDATION - FLOOR DRAIN AND PIPE CHASE DETAILS
28.	C-15	WTF TANK FARM CONCRETE SLAB AND PIER PLAN
29.	C-16	WTF TANK FARM CONCRETE SLAB DETAILS
30.	C-17	WTF BUILDING FLOOR PLAN WITH SHEAR WALL / WINDOW / DOOR SCHEDULES
31.	C-18	WTF BUILDING EQUIPMENT LAYOUT
32.	C-19	WTF BUILDING PIPELINES LAYOUT
33.	C-20	WTF BUILDING EXTERIOR SIDE VIEWS

CIVIL - WATER TREATMENT FACILITY (CONTINUED)

SHEET	DWG.	DESCRIPTION
34.	C-21	WTF BUILDING ROOF PLAN
35.	C-22	WTF BUILDING CROSS SECTIONS AND DETAILS
36.	C-23	SITE PIPING PLAN
37.	C-24	WTF TANK FARM PLAN
38.	C-25	WTF TANK FARM PIPE CONNECTION DETAILS - STEEL TUBING FRAME PIPE SUPPORT
39.	C-26	WTF TANK FARM PIPE CONNECTION DETAILS - RECYCLED WATER AND WASTE WATER TANKS
40.	C-27	WTF TANK FARM MISCELLANEOUS DETAILS

ELECTRICAL - WATER TREATMENT FACILITY

SHEET	DWG.	DESCRIPTION
41.	E-1	BUILDING GENERAL ELECTRICAL PLAN
42.	E-2	ELECTRICAL DETAILS

PART III - PIPELINES AND WELLS

GENERAL - DISTRIBUTION PIPELINES		
SHEET	DWG	DESCRIPTION
43.	G-9	GENERAL NOTES; SURVEY CONTROL NOTES; ABBREVIATIONS; SYMBOLS; AND REFERENCES
44.	G-10	PIPELINE KEY PLAN

CIVIL - DISTRIBUTION PIPING

SHEET	DWG	DESCRIPTION
45.	C-28	RAW WATER PIPELINE FROM WELLS 3 AND 4
46.	C-29	TRENCH REPLACEMENT DETAILS
47.	C-30	WELLS TYPICAL DETAILS
48.	C-31	WELLS TYPICAL DETAILS (CONTINUED)



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

ENTIRE PROJECT
FULL PROJECT SHEET INDEX

DATE: JUNE 13, 2025	DWG No. G-2 SHEET No. 2 OF 48
SCALE: NOT TO SCALE	
PROJECT No.: 2789-003	

KEY POINTS

Key ID	Easting	Northing	Description
TC	5973907.702'	2275131.563'	Tank Center
FOR FENCING			
1	5973912.313'	2275009.886'	Fence Corner
2	5973924.099'	2275047.362'	Fence Corner
3	5973973.760'	2275128.153'	Fence Corner
4	5973972.191'	2275135.144'	Fence Corner
5	5973957.220'	2275144.912'	Fence Corner
6	5973930.223'	2275100.992'	Fence Corner
7	5973882.592'	2275130.271'	Fence Corner
8	5973865.128'	2275141.006'	Fence Corner
9	5973898.156'	2275146.251'	Fence Corner
10	5973921.858'	2275150.897'	Fence Corner
11	5973939.187'	2275171.303'	Fence Corner
12	5973942.503'	2275174.566'	Fence Corner
13	5973957.484'	2275178.141'	Fence Corner
14	5974011.649'	2275144.846'	Fence Corner

NOTE TO CONTRACTOR

TRINIDAD RANCHERIA HAS INFORMED THE ENGINEER THAT THE FENCE WAS INSTALLED PER PLAN. THE ENGINEER HAS NOT CONFIRMED ACCURACY OF FENCE INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM FENCE INSTALLATION; REMOVE FENCE, AS NECESSARY TO PERFORM THE WORK, AND REPLACE IMMEDIATELY.

CLIENT INFORMATION: STETSON ENGINEERS, INC.
2171 E. FRANCISCO BLVD. SUITE K
SAN RAFAEL, CA 94901

SURVEY PERFORMED BY: TONY O'ROURKE LAND SURVEYING
P.O. BOX 1263 WILLOW CREEK, CA BUSINESS/CELL:
707-499-2299
TONYOROURKELANDSURVEYING.GODADDYSITES.COM

TOPOGRAPHIC SURVEY

FOR
TRINIDAD RANCHERIA WATER TREATMENT
LOCATED IN THE SECTION
T 8 N, R 1 W, H.M.
HUMBOLDT COUNTY, CALIFORNIA

SURVEY NOTES

FIELD SURVEY FOR TOPOGRAPHIC PURPOSES WAS PERFORMED BY TOLS ON 8/3/2023 & 11/1/2023. NO LIABILITY IS ASSUMED BY TOLS FOR THE EXISTENCE OF SUBSURFACE FEATURES, IF ANY EXIST.

VERTICAL AND HORIZONTAL DATUMS ARE ASSUMED.

A BOUNDARY SURVEY WAS NOT CONDUCTED BY TVCE. NO LIABILITY IS ASSUMED BY TVCE FOR FOR TITLE DEFECTS OR ENCUMBRANCES, IF ANY EXIST.

PROPERTY LINES SHOWN HEREIN ARE PER BOOK 23 OF SURVEYS, PAGE 82, HUMBOLDT COUNTY RECORDS, AS EVIDENCED BY FOUND MONUMENTS.

SURVEY LEGEND

- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER CLEANOUT
- EXISTING FIRE HYDRANT
- EXISTING UTILITY POLE
- EXISTING STREET LAMP
- EXISTING GUY ANCHOR
- EXISTING TREE
- EXISTING BUILDING
- EXISTING ASPHALT PAVEMENT
- EXISTING GRAVEL TRAVEL WAY
- EXISTING OVERHEAD UTILITY LINE
- EXISTING FENCE LINE
- NEIGHBORING PARCEL LINE PER 23MS83
- SUBJECT PROPERTY LINE PER 23MS83

SURVEY CONTROL POINTS

Point No.	Easting	Northing	Point Elev.	Description
5001	5974004.043'	2275158.271'	257.17'	60D
5002	5974004.310'	2275149.263'	257.43'	11N IP ILLEGIBLE
5003	5973855.414'	2274982.845'	247.64'	60D
5005	5973927.700'	2275184.880'	253.67'	60D
5008	5973872.744'	2274960.960'	246.95'	11N IP LS 3318
5009	5973910.074'	2274938.071'	245.62'	WELL MON ILLEGIBLE

LEGEND

- NEW TANK
- OFFSET DESIGN LINE
- NEW FENCE
- RECOMMENDED ASSIGNMENT BOUNDARY (SURVEYED)
- EXISTING MAJOR CONTOUR LINE (5 FT INTERVAL)
- EXISTING MINOR CONTOUR LINE (1 FT INTERVAL)



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

ENTIRE PROJECT
WATER TREATMENT FACILITY
FENCING PLAN
~ FOR INFO ONLY ~
PREVIOUSLY INSTALLED BY OTHERS

DATE: JUNE 13, 2025	DWG No. G-3 SHEET No. 3 OF 48
SCALE: 1" = 10'	
PROJECT No.: 2789-003	

TRINIDAD RANCHERIA WATER TREATMENT FACILITY PROJECT

CHER-AE HEIGHTS INDIAN COMMUNITY OF THE TRINIDAD RANCHERIA - CALIFORNIA

FUNDED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES, UNDER THE SMALL COMMUNITY DROUGHT RELIEF PROGRAM

PART I - POTABLE WATER TANK

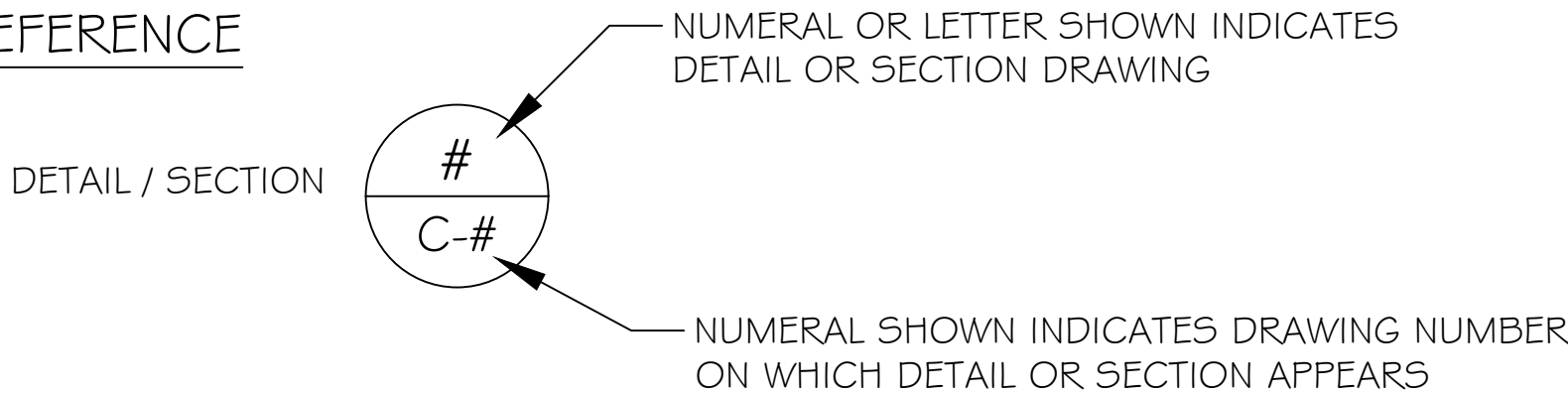
GENERAL NOTES

1. CULTURAL SIGNIFICANCE AREA SHALL BE PROTECTED AT ALL TIMES.
2. SITE FENCING WAS PREVIOUSLY INSTALLED. ALL WORK SHALL BE CONTAINED WITHIN THE PROJECT SITE BOUNDED BY THE SITE FENCING.
3. PRIOR TO START OF ANY WORK AT THE PROJECT SITE FOR PART I - POTABLE WATER TANK, THE CONTRACTOR SHALL NOTIFY TRINIDAD RANCHERIA'S REPRESENTATIVE AND THE PROJECT ENGINEER, STETSON ENGINEERS INC., ATTN: ALLAN RICHARDS (415) 457-0701 / ALLANR@STETSONENGINEERS.COM, TO ALLOW PROPER COORDINATION AND NOTIFICATION TO THE PROPERTY OWNERS.
4. THE PROJECT WORK SHALL CONSIST OF SITE PREPARATION; SITE GRADING; AND CONSTRUCTING NEW FOUNDATION FOR A 24,000 GALLONS CAPACITY POTABLE WATER TANK (WATER TANK WILL BE INSTALLED BY OTHERS), A 441 S.F. WATER TREATMENT BUILDING, AND TANK FARM. PART I - POTABLE WATER TANK FOUNDATION WORK INCLUDES INSTALLATION OF ANCHOR BOLTS.
5. INSTALLATION OF THE TANK SHALL BE PERFORMED BY CST INDUSTRIES, INC.
6. CONTRACTOR IS RESPONSIBLE FOR ASSEMBLY AND INSTALLATION OF EQUIPMENT THAT IS TO BE ATTACHED TO THE TANK THAT WAS PRE-PURCHASED FROM CST INDUSTRIES INC., WHICH MAY INCLUDE A GUARDRAIL, LIQUID LEVEL INDICATOR, LADDER, PROTECTIVE CAGES, ELECTRICAL WIRING, AND AS-NEEDED ALARMS, AND AS-NEED CONTROL AND LIGHTING PROTECTION. ALL CONNECTING PIPING, CONDUIT, WIRE, ETC., SHALL BE PURCHASED AND INSTALLED BY THE CONTRACTOR. SHOP DRAWING SUBMITTALS OF THE NEW EQUIPMENT, DEFINED BY THE LIMITS OF PIPING, CONDUIT, WIRE, ETC., PROVIDED BY CST INDUSTRIES, INC.
7. ALL ADDITIONAL MATERIALS REQUIRED BY THE PROJECT MANUAL AND CONTRACT DRAWINGS ARE REQUIRED FOR A FULLY OPERATION TANK SYSTEM SHALL BE PURCHASED AND INSTALLED BY THE CONTRACTOR.
8. CONTRACTOR SHALL COORDINATE CONSTRUCTION OF THE WATER TREATMENT FACILITY BUILDING (PART II - WATER TREATMENT FACILITY) AROUND CONSTRUCTION OF THE POTABLE WATER TANK (PART I).
9. THE CONTRACTOR SHALL NOTIFY USA NORTH 811 AT WWW.USANORTH811.ORG, AT LEAST TWO (2) WORKING DAYS, NOT INCLUDING DAY OF NOTIFICATION, WHICHEVER IS LATER, HAS PASSED AND NOTIFY ALL UTILITY MEMBERS HAVE POSITIVELY RESPONDED TO REQUEST.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM UTILITY EXPLORATION TO VERIFY LOCATIONS OF EXISTING UTILITIES (INCLUDING BUT NOT LIMITED TO, GAS PIPELINES EXISTING WATER PIPELINES, ELECTRICAL, CABLE, AND TELECOMMUNICATIONS UTILITIES, BURIED OR ABOVE GROUND) BY POT-HOLING OR OTHER MEANS, AND PROTECT UTILITIES IN PLACE. CONTRACTOR SHALL REPORT TO THE ENGINEER ANY DISCREPANCIES FOUND OR ANY DETAILS NOT SHOWN ON THE DRAWINGS. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR BEFORE THE

SUBMITTAL OF SHOP DRAWINGS.

11. THIS PLAN DOES NOT AUTHORIZE ANY WORK WITHIN PUBLIC/PRIVATE RIGHT-OF-WAYS WITHOUT REQUIRED APPROVALS AND/OR PERMITS. CONTRACTOR SHALL WORK WITH TRINIDAD RANCHERIA TO OBTAIN PROPER APPROVAL(S) AND/OR PERMIT(S) AND SHALL SUBMIT TO TRINIDAD RANCHERIA AND PROJECT ENGINEER ALL APPROVAL(S)/PERMIT(S) WITH START OF WORK NOTIFICATION.
12. ALL WORK DETAILED HEREIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IN THE CASE OF DISCREPANCY OR AMBIGUITY IN CONTRACT DOCUMENTS AND THIS SET OF DRAWINGS, THE CONTRACTOR IS REFERRED TO DOCUMENT 00700 - GENERAL CONDITIONS ARTICLE 5.7 - PRECEDENCE OF DOCUMENTS OF THE PROJECT MANUAL.
13. MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE PLANS BUT REQUIRED BY OTHER CONTRACT DRAWINGS OR APPROVED SUBMITTALS SHALL BE PROVIDED FOR PRIOR TO PLACING CONCRETE.
14. NO REVISIONS SHALL BE MADE TO THESE DRAWINGS WITHOUT THE APPROVAL OF THE PROJECT ENGINEER AND THE TRINIDAD RANCHERIA.
15. ANY DATA AND INFORMATION PROVIDED BY THE TRINIDAD RANCHERIA ARE FOR THE CONTRACTOR'S INFORMATION ONLY. ANY INTERPRETATIONS OR CONCLUSIONS DRAWN BY THE CONTRACTOR FROM THEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. THE CONTRACTOR SHALL EXERCISE CARE AND SAFETY WHEN WORKING NEAR EXISTING UTILITIES ON SITE INCLUDING EXISTING WATER MAINS AND APPURTENANCES, AND ELECTRICAL UTILITIES, AND SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE, BREAKAGE, OR LEAKS CAUSED BY THE CONTRACTOR'S WORK.
17. THE CONTRACTOR SHALL RESTORE THE GROUND SURFACE OF EXCAVATED AREAS TO ORIGINAL GRADE AS REASONABLY POSSIBLE UNLESS OTHERWISE SHOWN OR DIRECTED.
18. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES, STRUCTURES, FENCING, ETC. FROM DAMAGE. CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY DAMAGE TO SUCH FACILITIES.
19. THE ENGINEER HAS, BY SEARCH OF KNOWN RECORDS, ENDEAVORED TO LOCATE AND INDICATE ON THE PLANS ALL THE UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK. HOWEVER, THE ACCURACY OR COMPLETENESS OF THE UTILITIES ON THE DRAWINGS IS NOT GUARANTEED.

REFERENCE



ABBREVIATIONS AND SYMBOLS

AC	ASBESTOS - CEMENT PIPE
APPROX	APPROXIMATED
C	CENTER LINE
CONC	CONCRETE
CST	CST INDUSTRIES, INC.
CT	CATHODIC TEST STATION
CY	CUBIC YARDS
DI	DUCTILE IRON
DIAM	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
(E)	EXISTING
E	ELECTRIC
EG	EXISTING GROUND
ELEV	ELEVATION
FL	FLANGE
FT	FEET
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
IN	INCHES
L	LENGTH
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
(N)	NEW
NOM.	NOMINAL
NTS	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER
PW	POTABLE WATER
R	RADIUS
REQ'D	REQUIRED
SQ.FT. / S.F.	SQUARE FEET
SS	STAINLESS STEEL
STD.	STANDARD
TBD	TO BE DETERMINED
T.R.	CHER-AE HEIGHTS INDIAN COMMUNITY OF THE TRINIDAD RANCHERIA
TYP	TYPICAL
W	WATER
W/	WITH
WTF	WATER TREATMENT FACILITY
°	DEGREES
'	FEET OR MINUTES
"	INCHES OR SECONDS
@	AT
\$	AND
Ø	DIAMETER
#	NUMBER
%	PERCENT

SURVEY CONTROL NOTES

1. FIELD SURVEY FOR TOPOGRAPHIC PURPOSES WAS PERFORMED BY TOLS ON 8/3/2023 & 11/1/2023. NO LIABILITY IS ASSUMED BY TOLS FOR THE EXISTENCE OF SUBSURFACE FEATURES, IF ANY EXIST.
2. VERTICAL AND HORIZONTAL DATUMS ARE ASSUMED.
3. A BOUNDARY SURVEY WAS NOT CONDUCTED BY TVCE. NO LIABILITY IS ASSUMED BY TVCE FOR FOR TITLE DEFECTS OR ENCUMBRANCES, IF ANY EXIST.
4. PROPERTY LINES SHOWN HEREIN ARE PER BOOK 23 OF SURVEYS, PAGE 82, HUMBOLDT COUNTY RECORDS, AS EVIDENCED BY FOUND MONUMENTS.

CULTURAL MONITORING

1. CULTURAL MONITORING IS REQUIRED UNDER THIS PROJECT AND CONTRACT AGREEMENT FOR ANY GROUND DISTURBING ACTIVITIES. DURING CONSTRUCTION, THE CONTRACTOR IS TO ADHERE TO THE REQUIREMENTS OF THE TRINIDAD RANCHERIA THPO AND CULTURAL MONITOR IN THE EVEN OF DISCOVERY OF SENSITIVE ITEMS AS DEFINED AND EXPLAINED HEREIN.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE RANCHERIA SEVENTY-TWO (72) HOURS PRIOR TO CONDUCTING GROUND DISTURBANCE ACTIVITIES.
3. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH TRINIDAD RANCHERIA THPO TO ENSURE A TRINIDAD RANCHERIA CULTURAL MONITOR IS AVAILABLE DURING ANY GROUND DISTURBANCE ACTIVITIES.



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



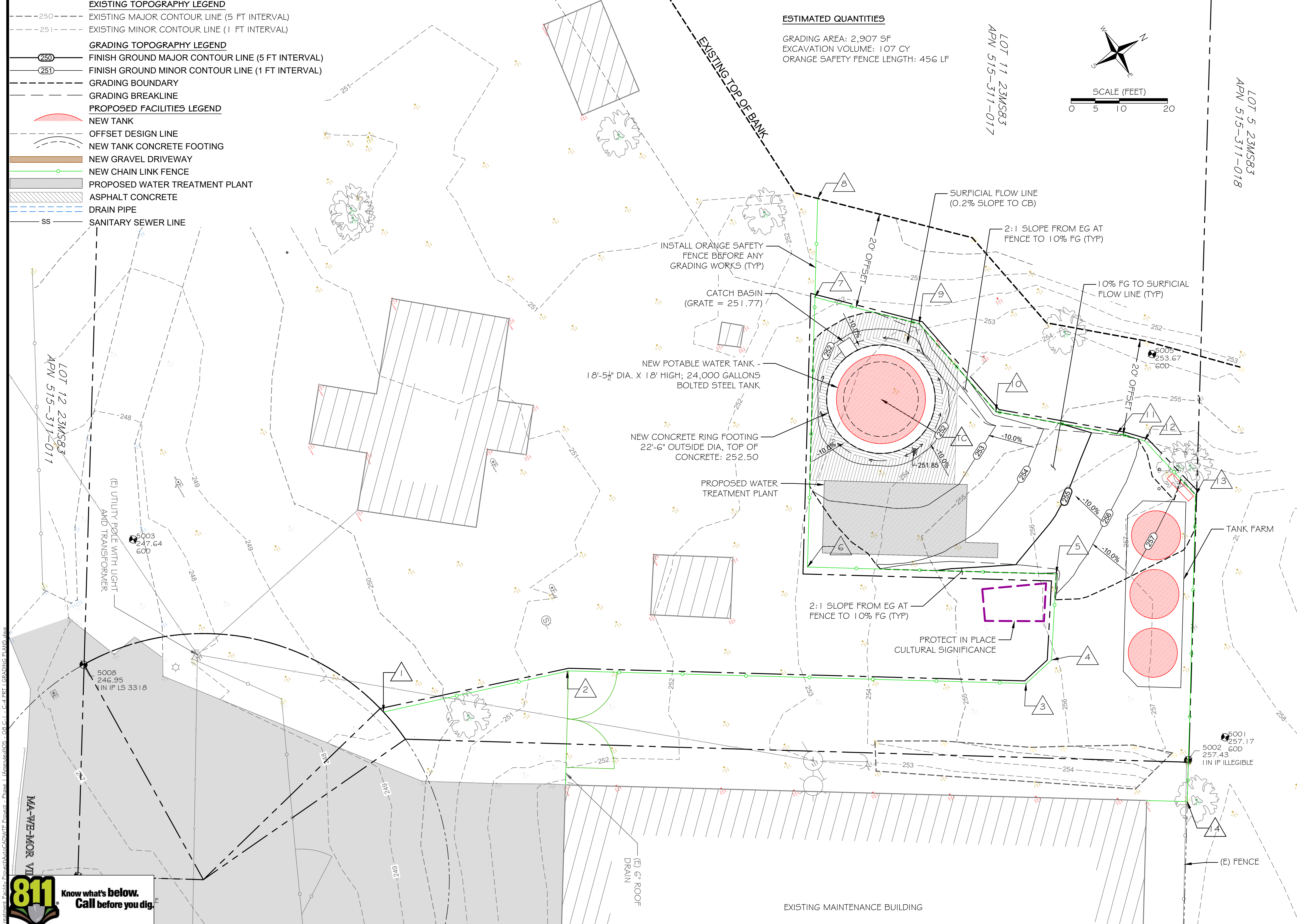
Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART I - POTABLE WATER TANK
GENERAL NOTES; SURVEY
NOTES; CULTURAL MONITORING;
REFERENCE; ABBREVIATIONS
AND SYMBOLS

DATE: JUNE 13, 2025	DWG No. G-4 SHEET No. 4 OF 48
SCALE: NOT TO SCALE	
PROJECT No.: 2789-003	



CLIENT INFORMATION: STETSON ENGINEERS, INC.
2171 E. FRANCISCO BLVD. SUITE K
SAN RAFAEL, CA 94901

SURVEY PERFORMED BY: TONY O'ROURKE LAND SURVEYING
P.O. BOX 1263 WILLOW CREEK, CA BUSINESS/CELL:
707-499-2299
TONYOROURKELANDSURVEYING.GODADDYSITES.COM

TOPOGRAPHIC SURVEY

FOR
TRINIDAD RANCHERIA WATER TREATMENT
LOCATED IN THE SECTION
T 8 N, R 1 W, H.M.
HUMBOLDT COUNTY, CALIFORNIA

SURVEY NOTES

FIELD SURVEY FOR TOPOGRAPHIC PURPOSES WAS PERFORMED BY TOLS ON 8/3/2023 & 11/1/2023. NO LIABILITY IS ASSUMED BY TOLS FOR THE EXISTENCE OF SUBSURFACE FEATURES, IF ANY EXIST.

VERTICAL AND HORIZONTAL DATUMS ARE ASSUMED.

A BOUNDARY SURVEY WAS NOT CONDUCTED BY TVCE. NO LIABILITY IS ASSUMED BY TVCE FOR FOR TITLE DEFECTS OR ENCUMBRANCES, IF ANY EXIST.

PROPERTY LINES SHOWN HEREIN ARE PER BOOK 23 OF SURVEYS, PAGE 82, HUMBOLDT COUNTY RECORDS, AS EVIDENCED BY FOUND MONUMENTS.

SURVEY LEGEND

- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER CLEANOUT
- EXISTING FIRE HYDRANT
- EXISTING UTILITY POLE
- EXISTING STREET LAMP
- EXISTING GUY ANCHOR
- EXISTING TREE
- EXISTING BUILDING
- EXISTING ASPHALT PAVEMENT
- EXISTING GRAVEL TRAVEL WAY
- EXISTING OVERHEAD UTILITY LINE
- EXISTING FENCE LINE
- NEIGHBORING PARCEL LINE PER 23MS83
- SUBJECT PROPERTY LINE PER 23MS83

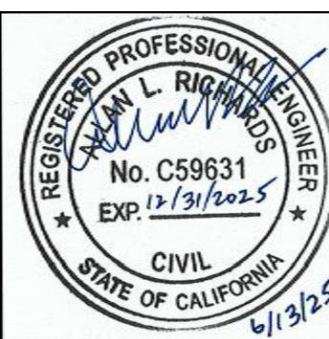
SURVEY CONTROL POINTS				
Point No.	Easting	North	Point Elev	Description
5001	5974004.043'	2275158.271'	257.17'	60D
5002	5974004.310'	2275149.263'	257.43'	11N IP ILLEGIBLE
5003	5973855.414'	2274982.845'	247.64'	60D
5005	5973927.700'	2275184.880'	253.67'	60D
5008	5973872.744'	2274960.960'	246.95'	11N IP LS 3318
5009	5973910.074'	2274938.071'	245.62'	WELL MON ILLEGIBLE

KEY POINTS FOR GRADING AND SAFETY FENCING				
Key No.	Easting	North	Description	
1	5973912.313'	2275009.886'	Fence Corner	
2	5973924.099'	2275047.362'	Fence Corner	
3	5973973.760'	2275128.153'	Fence Corner	
4	5973972.191'	2275135.144'	Fence Corner	
5	5973957.220'	2275144.912'	Fence Corner	
6	5973930.223'	2275100.992'	Fence Corner	
7	5973882.592'	2275130.271'	Fence Corner	
8	5973865.128'	2275141.006'	Fence Corner	
9	5973898.156'	2275146.251'	Fence Corner	
10	5973921.858'	2275150.897'	Fence Corner	
11	5973939.187'	2275171.303'	Fence Corner	
12	5973942.503'	2275174.566'	Fence Corner	
13	5973957.484'	2275178.141'	Fence Corner	
14	5974011.649'	2275144.846'	Fence Corner	

DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



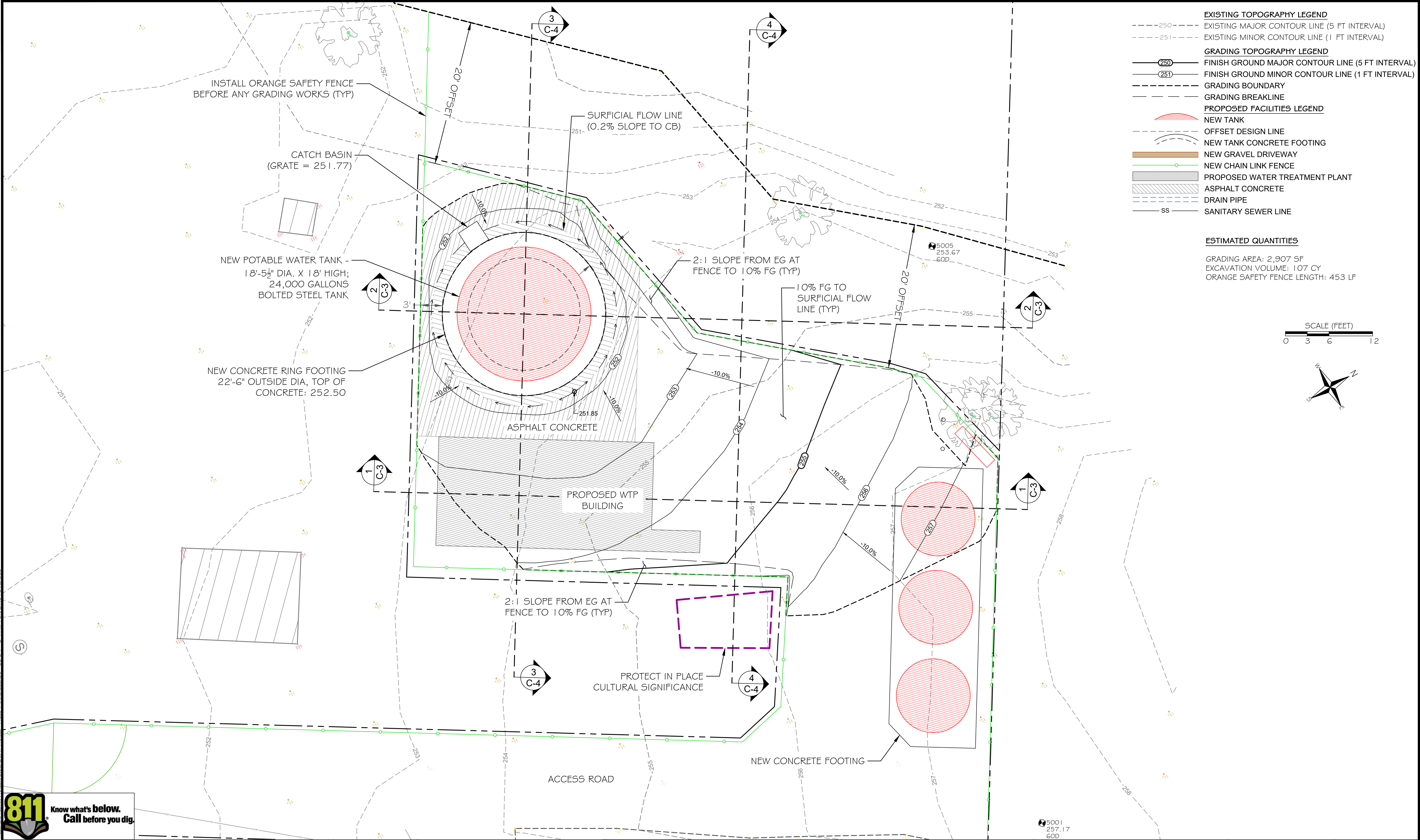
Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA WATER TREATMENT FACILITY PROJECT PHASE I

PART I - POTABLE WATER TANK OVERVIEW GRADING PLAN

DATE: JUNE 13, 2025	DWG No. C-I
SCALE: 1" = 10'	
PROJECT No.: 2789-003	SHEET No. 5 OF 48



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



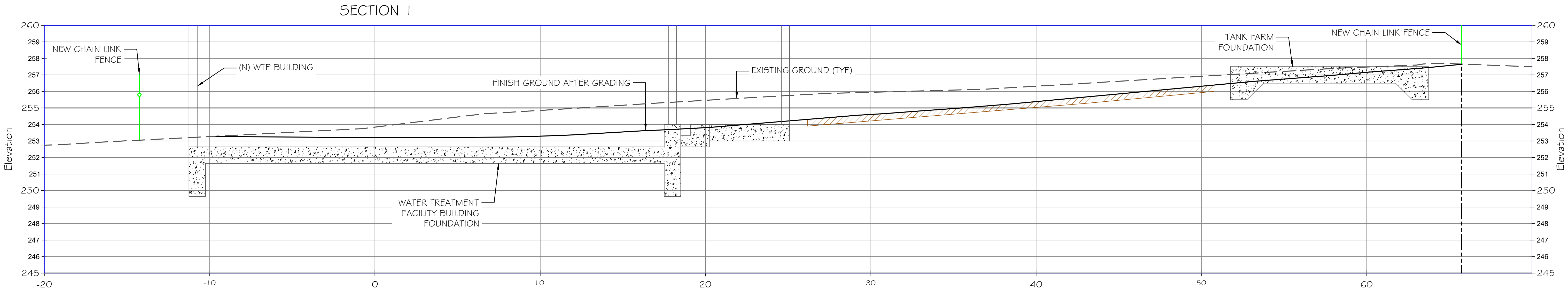
TRINIDAD RANCHERIA WATER TREATMENT FACILITY PROJECT PHASE I

PART I - POTABLE WATER TANK
GRADING PLAN VIEW

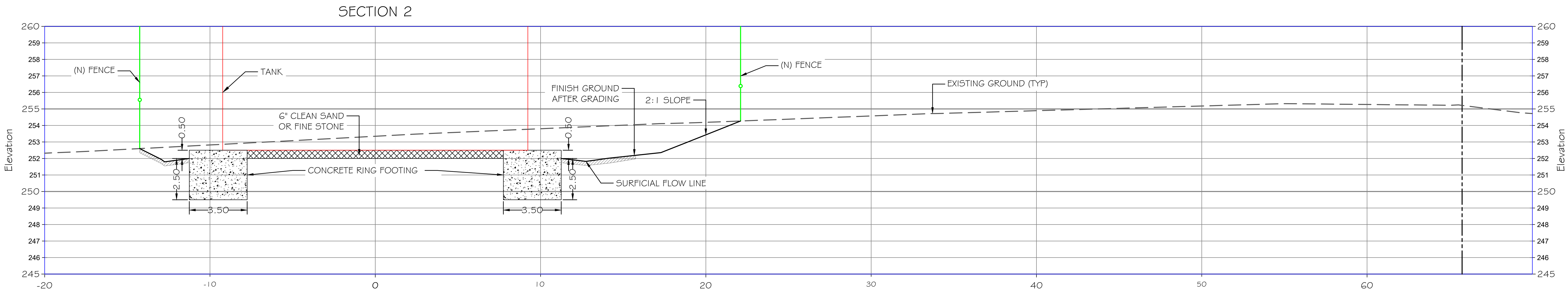
DATE: JUNE 13, 2025
SCALE: 1" = 6'
PROJECT No.: 2789-003

DWG No. **C-2**
SHEET No. **6 OF 48**

\\D:\1\2726\2726-003 Water Treatment Facility\Project\AutoCAD\DWG Project - Phase 1 (Grading) Plans.dwg



CROSS-SECTION 1
SCALE : 1" = 3'-0"



CROSS-SECTION 3
SCALE : 1" = 3'-0"



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

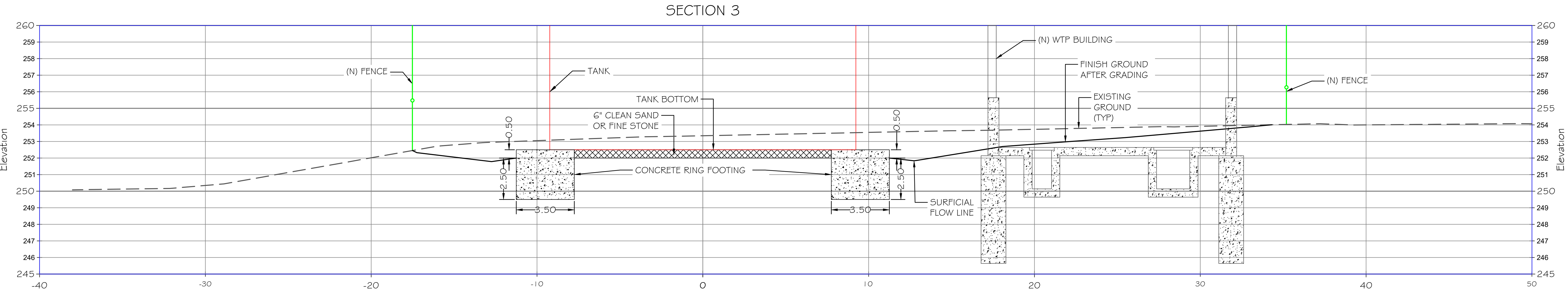


TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

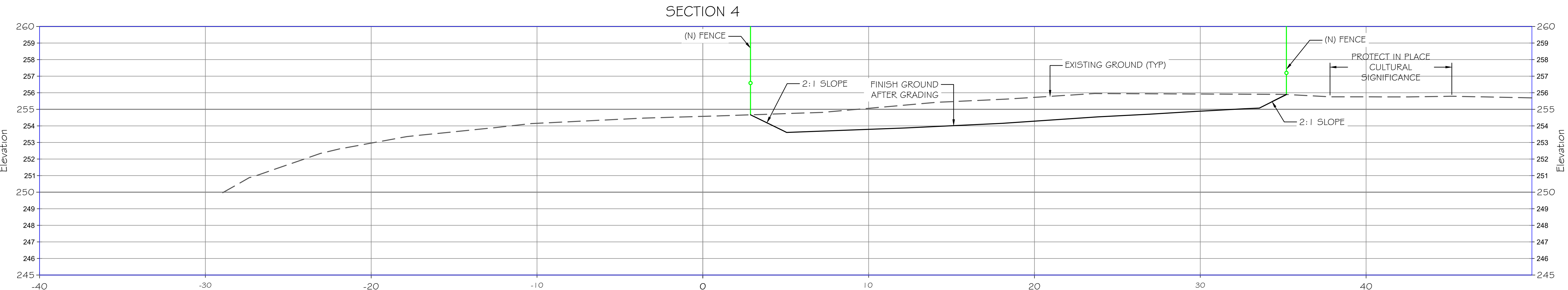
PART I - POTABLE WATER TANK
GRADING SECTIONS 1 & 2

DATE: JUNE 13, 2025	PROJECT No.: 2789-003
SCALE: 1" = 3'	

DWG No. C-3
SHEET No. 7 OF 48



3
C-2 CROSS-SECTION 3
SCALE : 1" = 3'-0"



4
C-2 CROSS-SECTION 4
SCALE : 1" = 3'-0"



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART I - POTABLE WATER TANK
GRADING SECTIONS 3 & 4

DATE: JUNE 13, 2025	DWG No. C-4
SCALE: 1" = 3'	SHEET No. 8 OF 48
PROJECT No.: 2789-003	



Diagram illustrating the Bottom Plan of the structure, showing anchor bolts and placement tolerances.

Anchor Bolt Details:

- (12) 7/8" DIA. x 27" Lg ANCHOR BOLTS ON A 18"-11 13/16" BOLT CIRCLE W/ 1/4 1/2" PROJECTION

Anchor Placement Tolerances:


- PROJECTION: + OR - 1/4"
- POSITIONING:
 - RADIAL: +1/4", -0"
 - CHORD: + OR - 1/8" (NON-ACCUMULATIVE)
 - PLUMBNESS: 3 DEGREES FROM VERTICAL

Other Dimensions and Labels:

- 30.08" TYPICAL
- SS 31/32" CHORD
- 270°
- 180°
- 90°
- 0°
- 9.83"
- 19 1/2" CHORD
- 28
- 27

BOTTOM PLAN
ANCHOR PLAN NOT TO SCALE

1. THIS BILL OF MATERIAL IS FOR ONE COMPLETE TANK.
- * 2. DRAWINGS REQUIRED FOR FIELD USE.
3. INTERIOR AND BOTH SIDES OF BOTTOM PAINTED ONE TICO THERMOSEPT CORROSION RESISTANT POWDER E BOND EP ® (7 MILS AVERAGE, DFT). EXTERIOR PAINTED ONE COAT OF TICO THERMOSEPT CORROSION RESISTANT POWDER EPOXY BOND EP ® WITH FINISH COAT OF STANDARD WHITE (#V01728-100) PERFORMANCE URETHANE (4.5 MILS AVERAGE, DFT).

4. PORTABLE WATER STORAGE TANK DESIGNED IN ACCORDANCE WITH ANWWA D103-09 SPEC. SS= 271.00%, S1= 109.00%, SEISMIC USE GROUP = 2, SITE CLASS= C, SEISMIC DESIGN CATEGORY = E, IMPORTANCE FACTOR IE = 1.25, LT = 8.00, 10 MPH WINDLOAD PER CBC 2022 W ASCE 7-16, RISK CATEGORY = 3, EXP = C, 25 PSF LIVE DECK LOAD, SPECIFIC GRAVITY = 1.00. 
5. STANDARD CENTER DOME WITH VENT WILL RELIEVE 24 CFS (11,000 GPM). ADDITIONAL VENTING TO PREVENT A VACUUM GREATER THAN 0.4 OZ. PER SQUARE INCH IS THE RESPONSIBILITY OF THE OWNER.
6. FIBERBOARD SHALL BE INSTALLED IN ACCORDANCE WITH ANWWA D103-09, SECTION 13.4.
7. ALL BOLTED CONNECTIONS ARE BEARING CONNECTIONS. FOR CST MINIMUM AND MAXIMUM TORQUE VALUES FOR RIGID-TIGHTNESS, REFERENCE CST ERECTION MANUAL. FOR CONNECTIONS NOT ADDRESSED IN THE CST ERECTION MANUAL, USE THE TURN-OF-THE-NUT METHOD.

24 1/8" MINIMUM PER DESIGN

3 1/8"

OFFSET FROM TANK

ANCHOR BOLT
7/8" x 27" LONG (30)

ANCHOR NUTS

STAVE

FLAT WASHER

ANCHOR CLIP (32)

ANCHOR SADDLE (33)

ANCHOR SADDLE HARDWARE KIT (31)

FIBERBOARD (35)

PROJECTION

14 1/2"

TOP OF CONCRETE

6"

FINISH GRADE

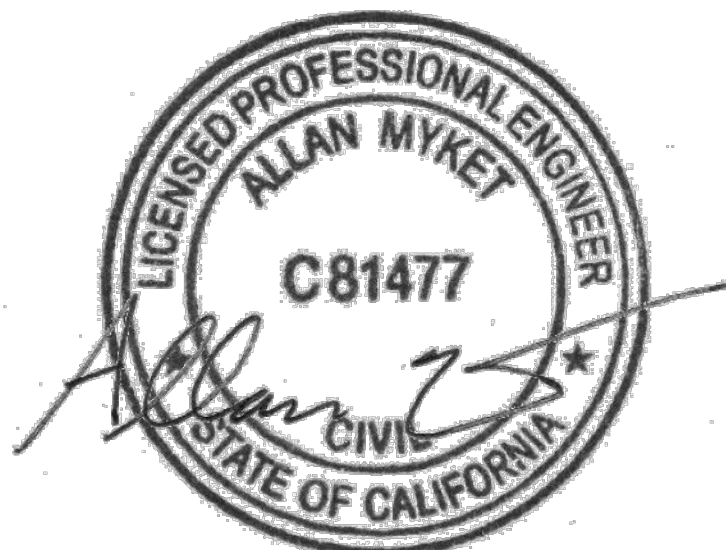
EMBEDMENT

12 1/2"

5/8" ±


CAST-IN-PLACE ANCHOR DETAIL

Structural
ENGINEERING
1815 W. DIEHL RD., SUITE 100, NAPERVILLE, IL 60563
(630) 219-1997
SEI PROJECT NO.: 231172.00



11/20/23

FINAL DRAWING: This drawing has been formally approved by both CST and the customer on the CST Sales Order for release to fabrication. Any change orders received by the customer are subject to a change order fee PLUS any additional material cost and/or fees/penalties associated with project management, engineering, manufacturing, and shipping. Also, changes after this milestone will delay shipment and require additional lead time. Any changes to loads and accessories may require engineering design changes with additional price impact and lead time. Engineering design changes are billable per CST's standard engineering hourly rate. THIS DRAWING HAS BEEN RELEASED FOR FABRICATION. Contact your CST Project Manager with any questions."

 903 E 104TH ST, SUITE #410 KANSAS CITY, MISSOURI 64131	3	UPDATED DESIGN NOTES PER REVISION DESIGN	TGS	MMW	ZOM	11/10/2023	ELEVATION, BOTTOM PLAN AND BOM 18'-5 1/2" DIA. X 18' HIGH TANK TRINIDAD RANCHERIA TRINIDAD, CA, USA				DESIGNED: _____ CHECKED: _____ DATE: 20-9502
	4	DESIGN STATE PER THESSON ON BOTTOM RING FROM 12GA TO 10GA CHANGE AFTER RELEASE	HML	NW	NN	05/20/22	REV: BWC	DATE: 2/23/2021	NOT REPT:		
	5	UPDATED PER ECCO 0308001-42 & ECCO 03366001-43 RELEASED FOR FABRICATION	TQA	TGS	CH	05/09/22	REV: BWC	DATE: 2/25/21	NOT REPT:		
	REV	REVISION DESCRIPTION	ECON	BY	CHKD	APPR.	DATE	SCALE	DATE	DATE	

918T018-209502A

3

CONFIDENTIAL/TRADE SECRETS: BY ACCEPTING POSSESSION OF THIS DOCUMENT, RECIPIENT AGREES THAT ITS CONTENTS ARE CONFIDENTIAL, PROPRIETARY TRADE SECRETS OF CST STORAGE. NO PORTION OF THIS DOCUMENT MAY BE REPRODUCED, DISTRIBUTED, OR USED IN ANY MANNER WITHOUT WRITTEN PERMISSION FROM CST STORAGE.

PART I - POTABLE WATER TANK

CST TANK DETAILS

ELEVATION, BOTTOM PLAN AND BOM

DATE:	JUNE 13, 2025
SCALE:	AS INDICATED
PROJECT No.:	2789-00

DWG No.
T-1

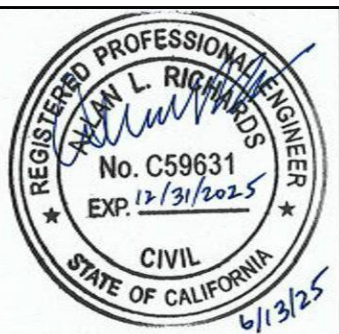
SHEET No.
10 OF 48



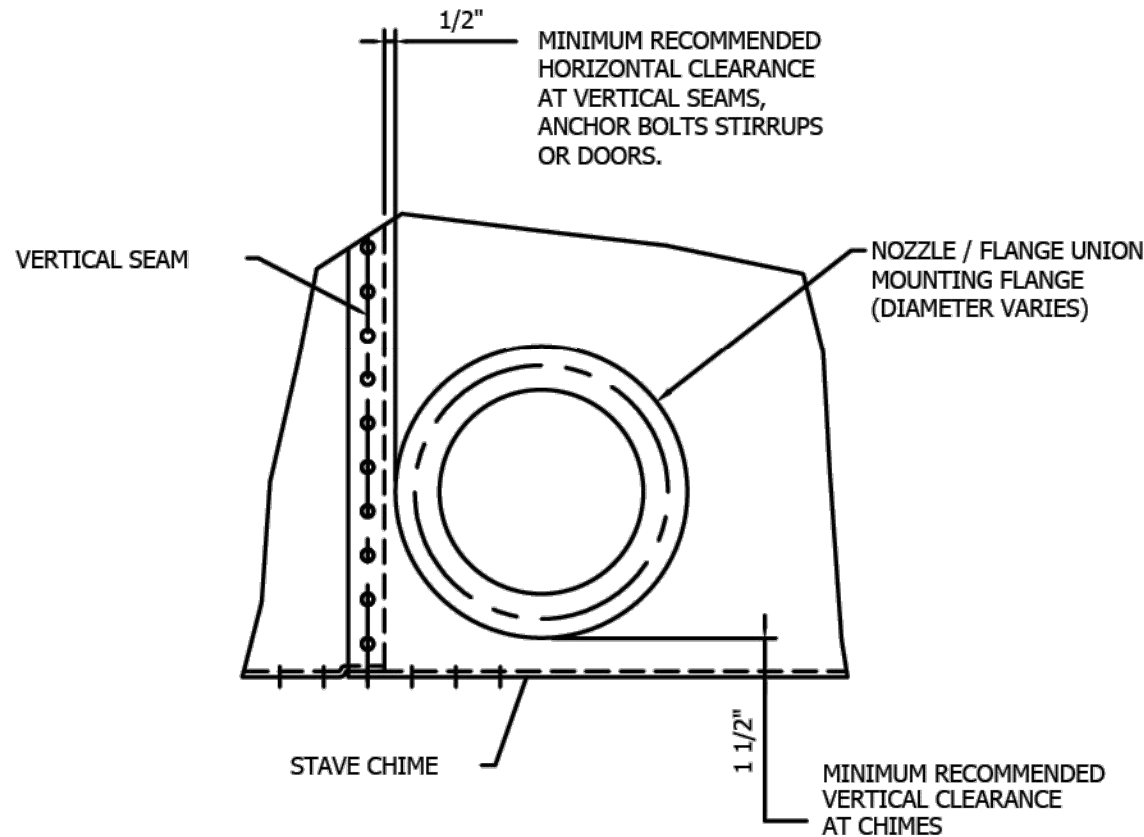
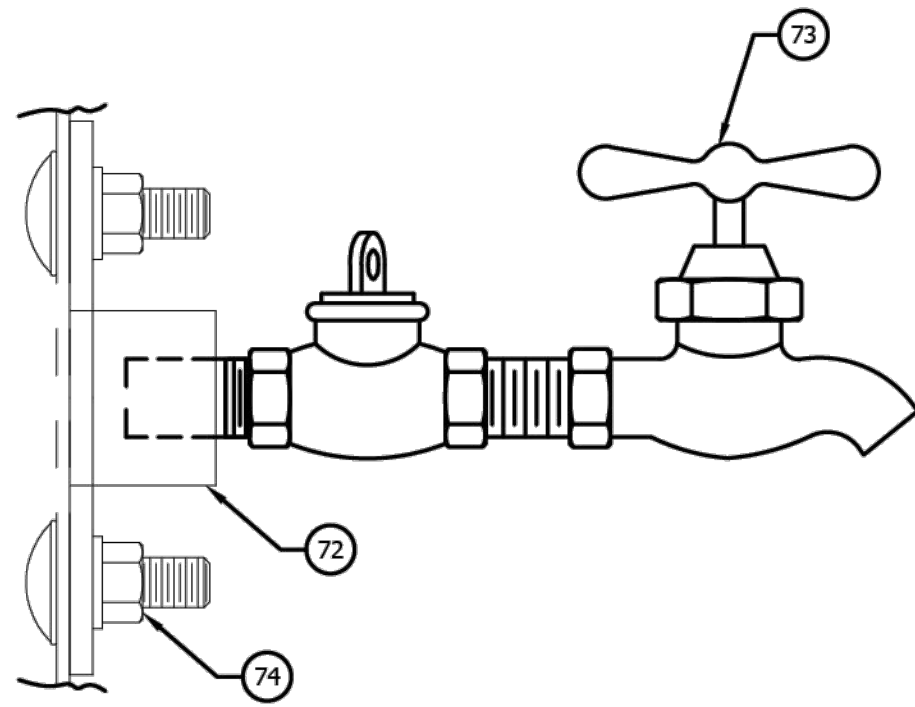
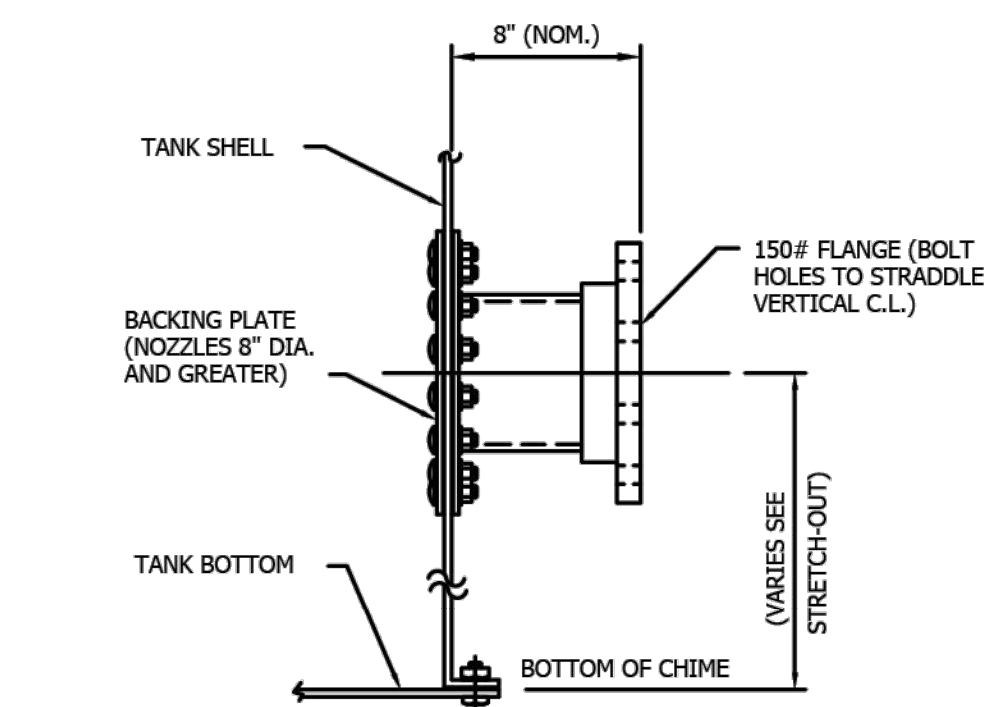
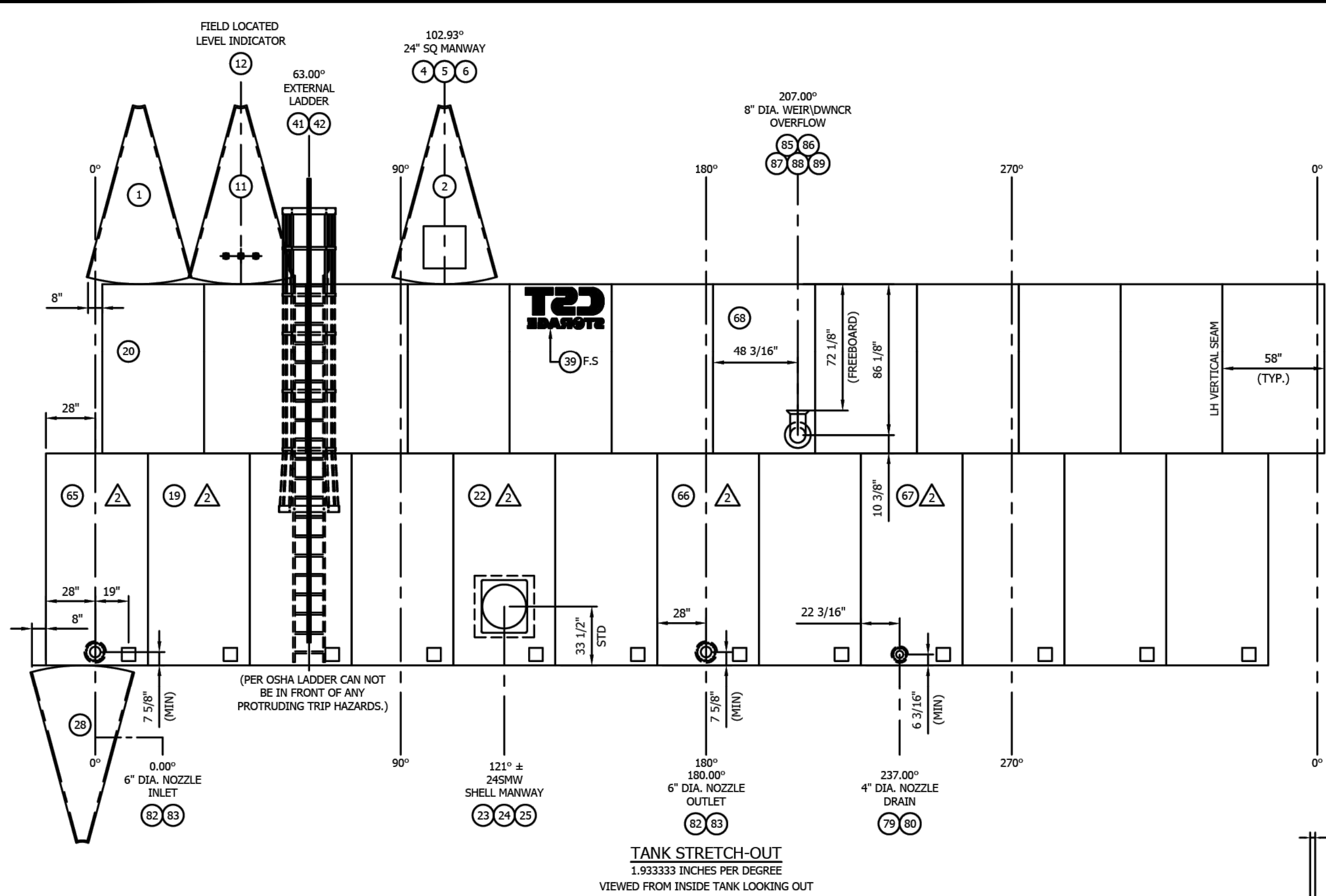
DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



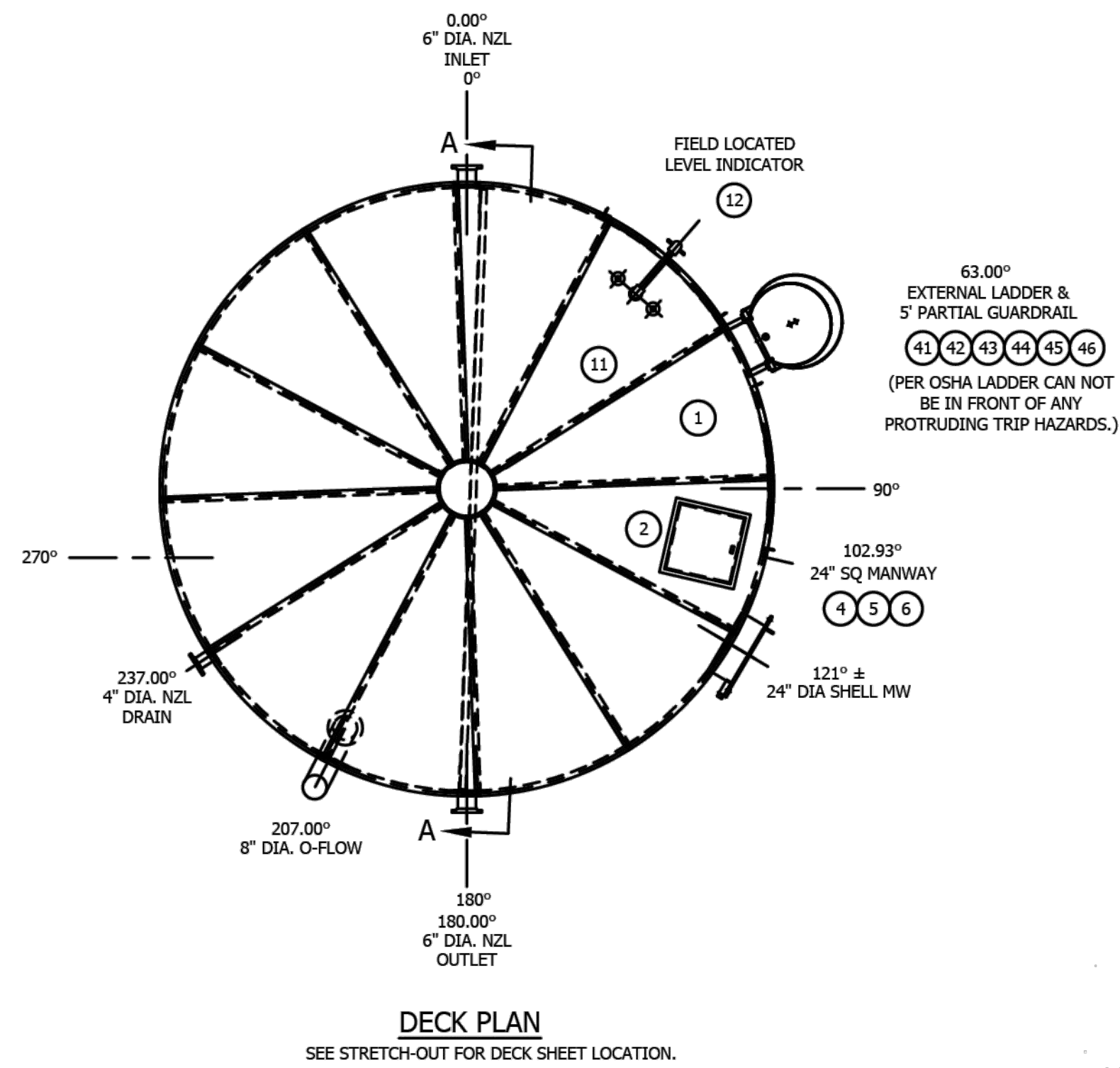
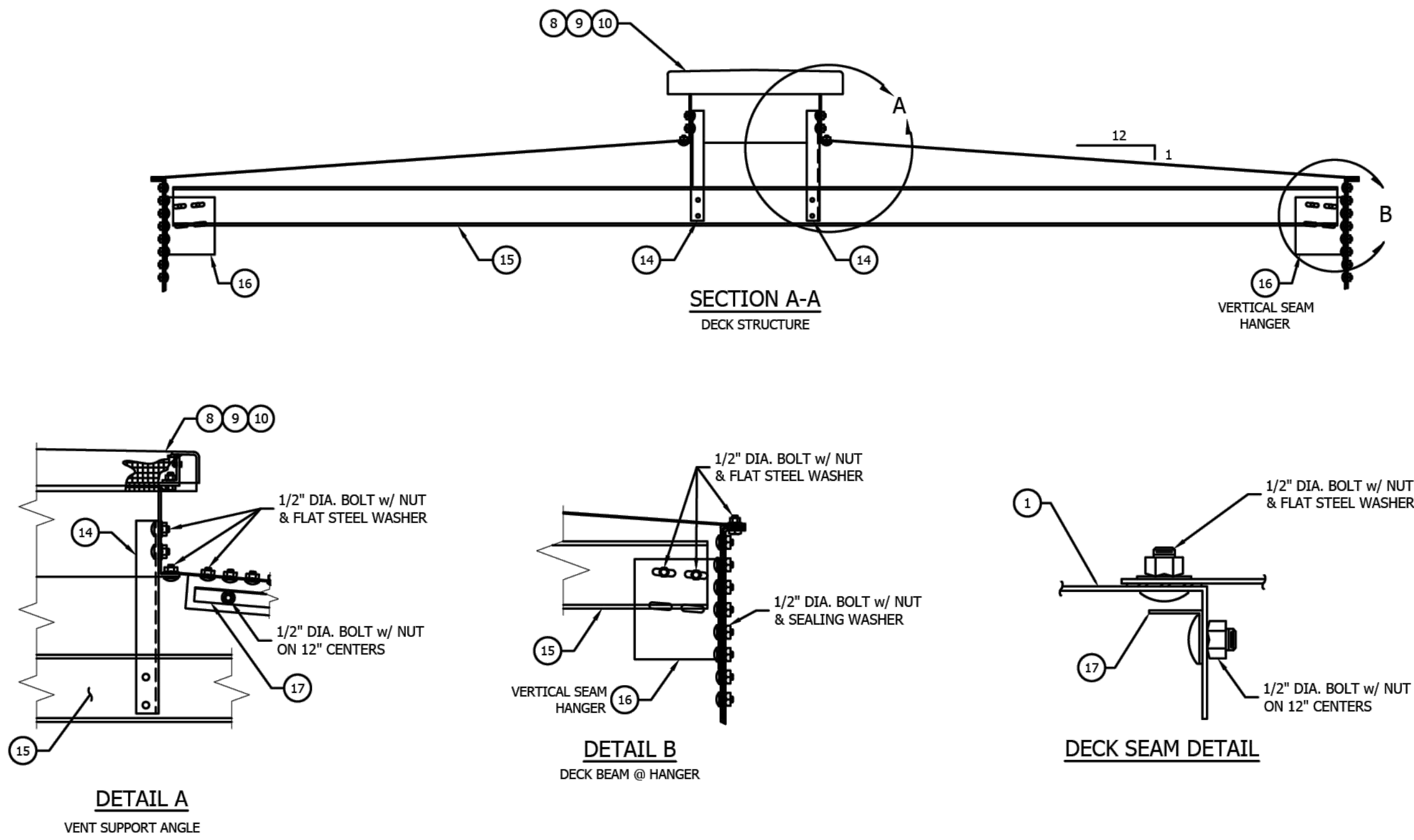
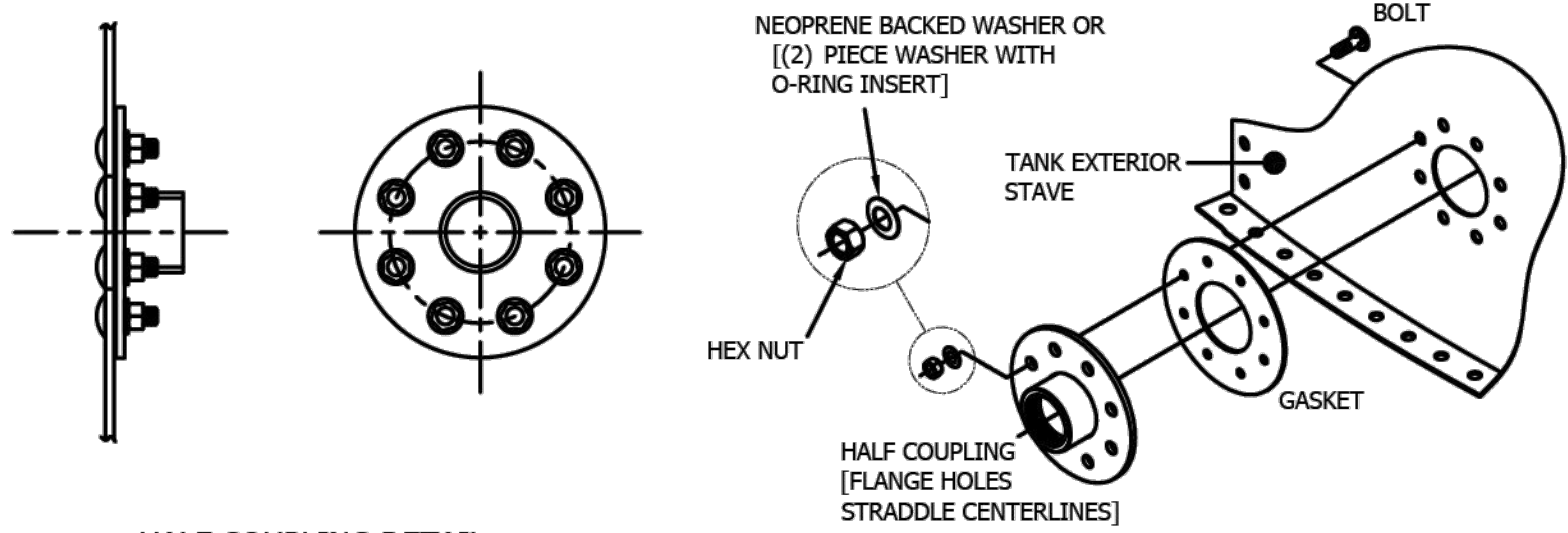
Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



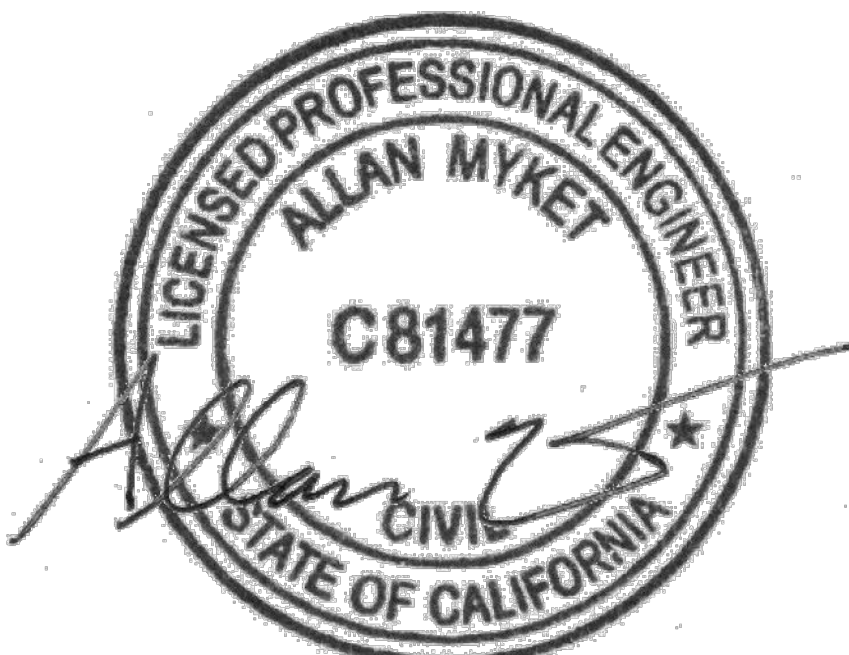
TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I



FIELD NOTE:
NOZZLES AND ACCESSORIES NOT FACTORY LOCATED SHALL BE FIELD LOCATED AND THEIR OPENINGS SHALL BE FIELD CUT - SEE FIELD LOCATED NOZZLE DETAIL FOR REFERENCE



Structural
ENGINEUITY
1815 W. DIEHL RD., SUITE 100, NAPERVILLE, IL 60563
(630) 219-1997



11/20/23



DESIGNED:	A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. / T.Z. / R.F.					
CHECKED:	A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART I - POTABLE WATER TANK

CST TANK DETAILS
TANK STRETCH-OUT,
STRUCTURE AND DECK

DATE:
JUNE 13, 2025
SCALE:
AS INDICATED
PROJECT No.:
2789-003

DWG No.
T-2
SHEET No.
11 OF 48



2	REVISED STAVE THICKNESS ON BOTTOM RING FROM 12GA TO 10GA	HML	NN	NN	05/20/22	REV	BWS	DATE: 2/23/2021	SUBMITTER	20-9502
1	RELEASED FOR FABRICATION	TQA	TGS	CHK	05/09/22	REV	CHK	DATE: 05/16/22	SUBMITTER	918T018-209502B
REV	REVISION DESCRIPTION	ECN	BY	CHKD	APPR	DATE	SCALE	NTS	SHEET	CF

CONFIDENTIAL/TRADE SECRETS: BY ACCEPTING POSSESSION OF THIS DOCUMENT, RECIPIENT AGREES THAT ITS CONTENTS ARE CONFIDENTIAL, PROPRIETARY TRADE SECRETS OF CST STORAGE. NO PORTION OF THIS DOCUMENT MAY BE REPRODUCED, DISTRIBUTED, OR USED IN ANY MANNER WITHOUT WRITTEN PERMISSION FROM CST STORAGE.

RING 1: 12 GA 1RV		
LOCATION	DESCRIPTION	QTY
VERTICAL SEAM BOLTS	1/2 X 1 1/4 FN PC HD HDG	720
VERTICAL SEAM NUTS	1/2 HEX NUT	720
VERTICAL SEAM WASHERS	1/2 NEOP BKD STEEL GALV	720
VERT SEAM STRIP GASKET	STRIP GSKT - 1 HOLE EPDM	128
CHIME BOLTS	1/2 X 1 SQ HD HDG GR5	324
CHIME LAP BOLTS	1/2 X 1 1/4 SQ HD HDG GR5	24
CHIME WASHER	1/2 FLAT STEEL GALV	324
CHIME NUTS	1/2 HEX NUT	348
CHIME STRIP GASKET	STRIP GSKT - 1 HOLE EPDM	60
CHIME LAP GASKET	GSKT CH/LAP LT EPDM	24
RADIUS LAP GASKET	GSKT LT RAD EPDM 1RV	24
CHIME LAP BOLT WSH REC	1/2 NEOP BKD STEEL GALV	48

RING 2: 12 GA 1RV		
LOCATION	DESCRIPTION	QTY
HGR TO SIDEWALL BOLTS	1/2 X 1 1/4 FN PC HD HDG	10
VERTICAL SEAM BOLTS	1/2 X 1 1/4 FN PC HD HDG	566
VERTICAL SEAM NUTS	1/2 HEX NUT	576
VERTICAL SEAM WASHERS	1/2 NEOP BKD STEEL GALV	576
VERT SEAM STRIP GASKET	STRIP GSKT - 1 HOLE EPDM	104
CHIME BOLTS	1/2 X 1 SQ HD HDG GR5	324
CHIME LAP BOLTS	1/2 X 1 1/4 SQ HD HDG GR5	24
CHIME WASHER	1/2 FLAT STEEL GALV	324
CHIME NUTS	1/2 HEX NUT	348
CHIME STRIP GASKET	STRIP GSKT - 1 HOLE EPDM	60
CHIME LAP GASKET	GSKT CH/LAP LT EPDM	24
RADIUS GASKET	GSKT LT RAD EPDM 1RV	24
CHIME LAP BOLT WSH REC	1/2 NEOP BKD STEEL GALV	48

FLAT BOTTOM SECTION: 12 GA CENTER PLATE: 10 GA		
LOCATION	DESCRIPTION	QTY
CENTER PLATE BOLTS	1/2 X 1 SQ HD HDG GR5	24
CENTER PLATE LAP BOLTS	1/2 X 1 1/4 SQ HD HDG GR5	18
CENTER PLATE NUTS	1/2 ENCAP NUT	36
CEN PLATE BOLT CHANNEL	2 HL	18
CENTER PLATE GSKT	MANHOLE GASKET 36 HL	1
RADIAL SEAM BOLTS	1/2 X 1 SQ HD HDG GR5	588
RADIAL SEAM NUTS	1/2 ENCAP NUT	588
RADIAL SEAM STRIP GSKT	STRIP GSKT - 1 HOLE EPDM	103
RADIAL SEAM BOLT CHAN	48 HL	12
BOTTOM LAP GASKET	GSKT CH/LAP LT EPDM	12
BOTTOM CHIME STRIP GSKT	STRIP GSKT - 1 HOLE EPDM	60
BOTTOM CHIME LAP GSKT	GSKT CH/LAP LT EPDM	12
BOTTOM CHIME BOLT	1/2 X 1 SQ HD HDG GR5	324
BOTTOM CHIME LAP BOLT	1/2 X 1 1/4 SQ HD HDG GR5	24
BOTTOM CHIME NUT	1/2 HEX NUT	348
BOTTOM CHIME WASHER	1/2 FLAT STEEL GALV	348
BTM LAP BOLT WASHER	1/2 NEOB BD STEEL GALV	48

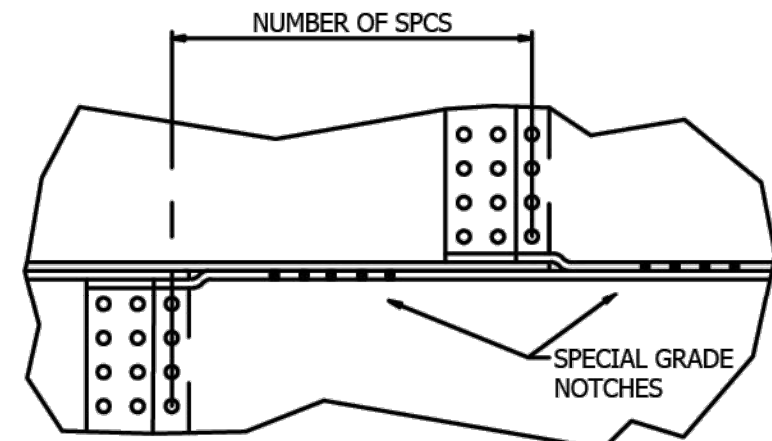
DECK: 12 GA		
LOCATION	DESCRIPTION	QTY
CENTER DOME BOLTS	1/2 X 1 1/4 FN PC HD HDG	24
CENTER DOME LAP BOLTS	1/2 X 1 1/4 FN PC HD HDG	12
CENTER DOME WASHERS	1/2 FLAT STEEL GALV	36
CENTER DOME NUTS	1/2 HEX NUT	36
CENTER DOME GSKT	MANHOLE GASKET 36 HL	1
RADIAL SEAM BOLTS	1/2 X 1 1/4 FN PC HD HDG	588
RADIAL SEAM WASHERS	1/2 FLAT STEEL GALV	588
RADIAL SEAM NUTS	1/2 HEX NUT	588
RADIAL SEAM STRIP GSKT	STRIP GSKT - 1 HOLE EPDM	103
TOTAL LAP GSKT	GSKT CH/LAP LT EPDM	24

DECK SUPPORT - SELF SUPPORT			
LOCATION	DESCRIPTION		QTY
CHANNEL SUPPORT BOLTS	BLT HH 1/2" X 1-1/4" SS/304		4
DOME SUPPORT BOLTS	BLT HH 1/2" X 1-1/4" SS/304		10
RETAINER ANGLE BOLTS	BLT HH 1/2" X 1-1/4" SS/304		108
HGR LAP GSKT	GSKT CH/LAP HVY EPDM		4
INTERIOR FLAT WASHERS	1/2 FLAT 304 SS		122
INTERIOR NUTS	NUT HH 1/2" *MAXED* SS/304		122

HARDWARE LIST FOR TANK - DOMESTIC COVERAGE					
ITEM	D/S	PART NO.	QTY	DESCRIPTION	PAINT
1	-	775G00810	1682	BOLT - 1/2 X 1 LG SQUARE HEAD HDG GR5	N
2	-	775G00812	137	BOLT - 1/2 X 1 1/4 LG SQUARE HEAD HDG GR5	N
3	-	777GR0812	2028	BOLT - 1/2 X 1 1/4 LG FIN POLYCAP HDG	N
4	-	772S00812	176	BLT HH 1/2"x 1-1/4" SS/304	N
5	-	279856-004	3103	NUT - 1/2 HEX GALVANIZED	N
6	-	784NE0800	693	NUT - 1/2 ENCAPSULATED	N
7	-	279856-002	176	NUT - 1/2 304SS HEX WAXED	N
8	-	791M04125	1701	WASHER - 1/2 FLAT STEEL GALVANIZED	N
9	-	790Z04000	1512	WASHER - 1/2 NEOPRENE BACKED GALVANIZED STEEL	N
10	-	791MR4000	52	WASHER - 1/2 RECESSED GALVANIZED STEEL	N
11	-	795NR4000	52	WASHER - 1/2 NEOPRENE O RING	N
12	-	50-27-0304-08	128	WASHER - FLAT 1/2 304SS	N
13	-	751W00002	637	STRIP GASKET - 1 HOLE EPDM	N
14	-	752W00012	49	GASKET RADIUS FILLET LIGHT EPDM 1RV	N
15	-	753W00003	99	GASKET - CHIME LAP LIGHT EPDM	N
16	-	753W00103	4	GASKET - CHIME LAP HEAVY BUMP EPDM	N
17	-	375G14003	19	2 HL BOLT CHANNEL GALVANIZED	N
18	-	375G14095	12	48 HL BOLT CHANNEL GALVANIZED	N
19	-	754W00136	2	MANHOLE GASKET 36 HL EPDM	N
20	-	756A00000	4	MANUS BOND CAULK	N

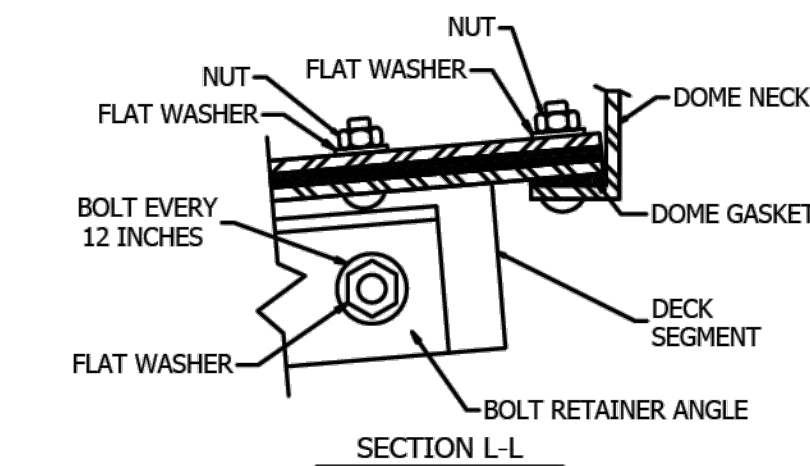
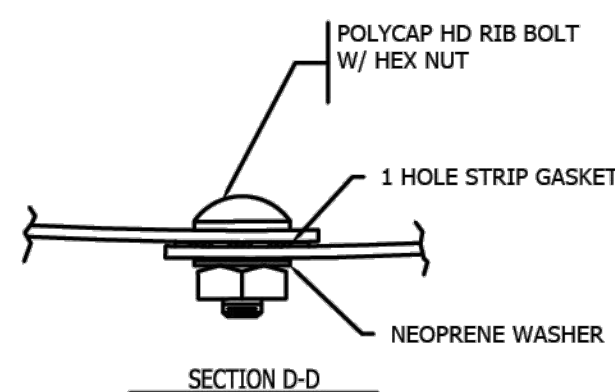
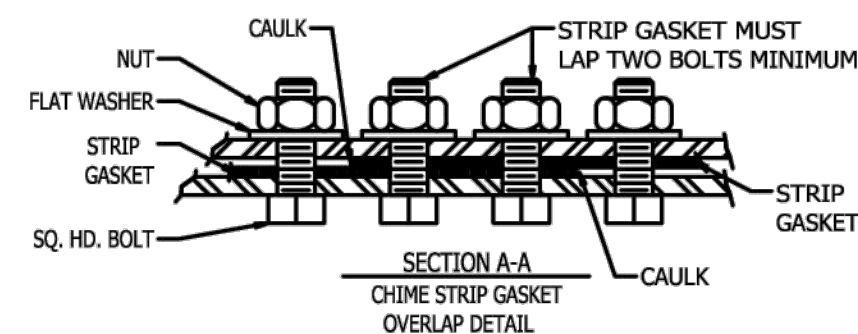
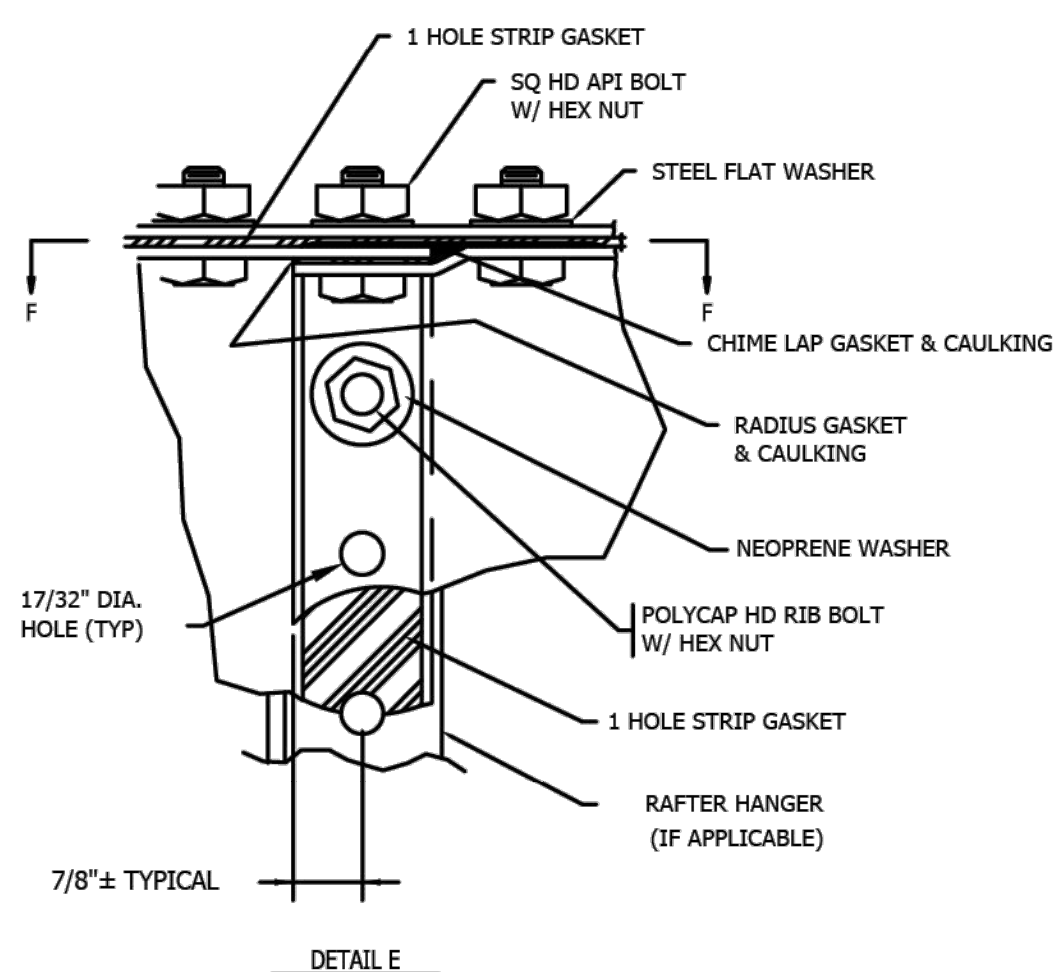
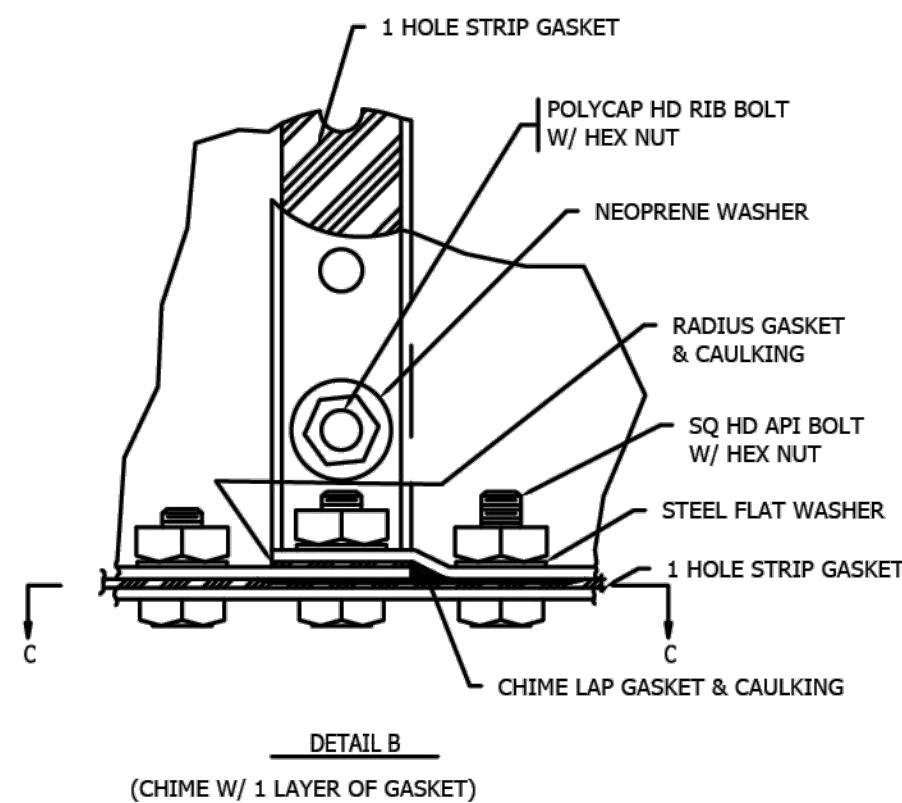
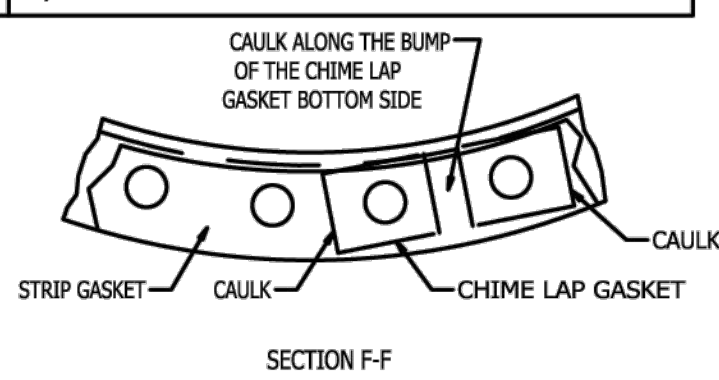
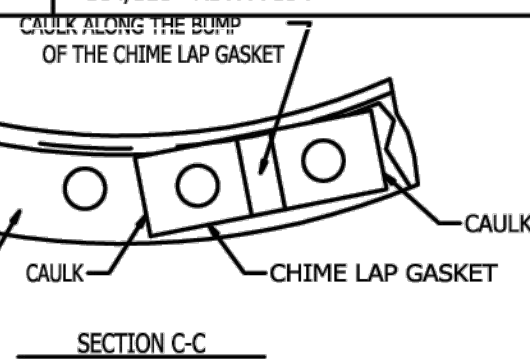
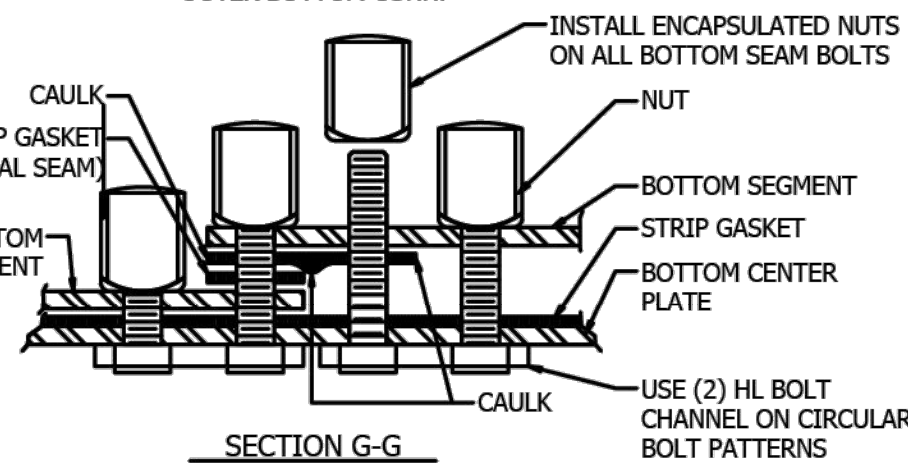
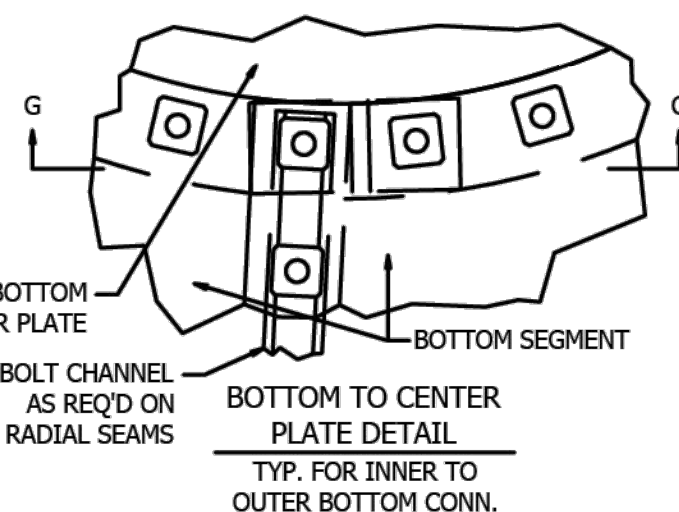
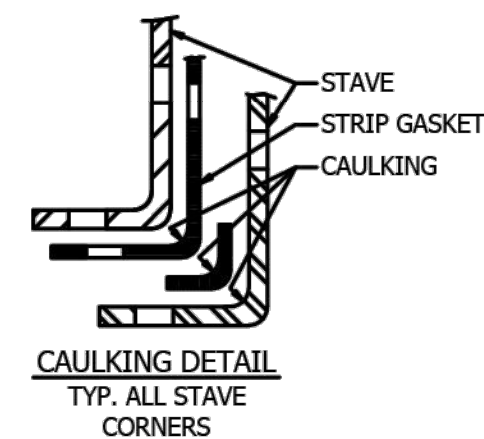
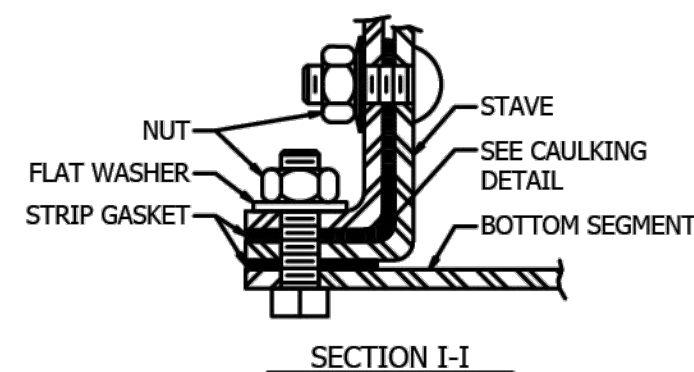
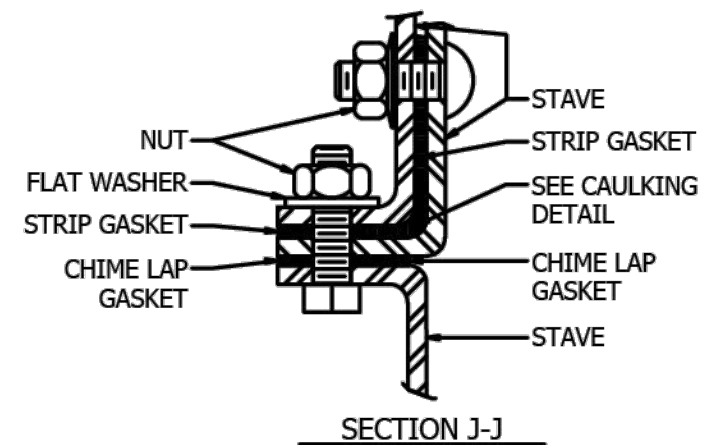
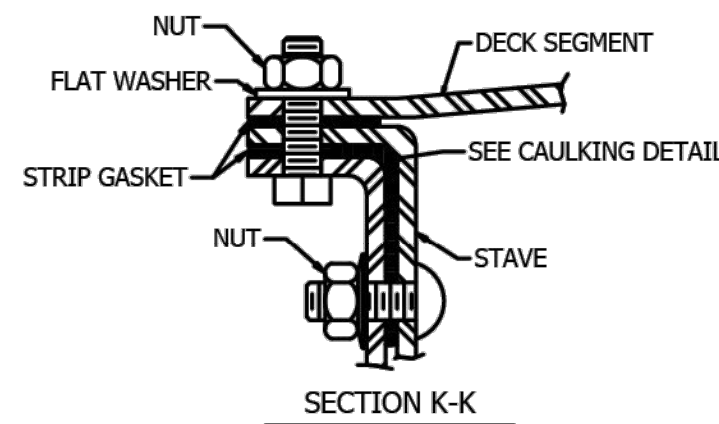
ITEM	MATERIALS OF CONSTRUCTION		APPLIES TO THE FOLLOWING ITEM #'S:
	12 GA. - 7/32"	1/4" & HEAVIER	
SHELL/ROOF/FLOOR/PLATE/SHEET	ASTM A1011	ASTM A36, A656, A572	
ANGLES	ASTM A572 GR 50		
ROUNDS	ASTM A500 GR B		
HRS CHANNEL	ASTM A572 GR 50		
HRS WIDE FLANGE	ASTM A992 GR 50		
HSS ROUND & RECTANGULAR TUBE	ASTM A500 GR B		
PIPE	ASTM A53 GR B		
FLANGES	ASTM A105		
BOLTS - GALV	SAE J429 GR 5 (FU - 120 KSI)		1, 2, 3
	SAE J429 GR 8 (FU - 150 KSI)		
NUTS - GALV	SAE J429 GR 2		5, 6
	SAE J429 GR 8		

ITEM	MATERIALS OF CONSTRUCTION	APPLIES TO THE FOLLOWING ITEM #S:
SHELL/ROOF/FLOOR/PLATE/SHEET	304/304L/316/316L - A240	
ANGLE & CHANNEL	304/304L/316/316L - A276	
ROUND TUBE	304/304L/316/316L - A269	
RECTANGULAR TUBE	304/304L/316/316L - A554	
PIPE	304/304L/316/316L - A312	
BOLTS	304/316 - ASTM F593	4
NUTS	304/316 - ASTM F594	7

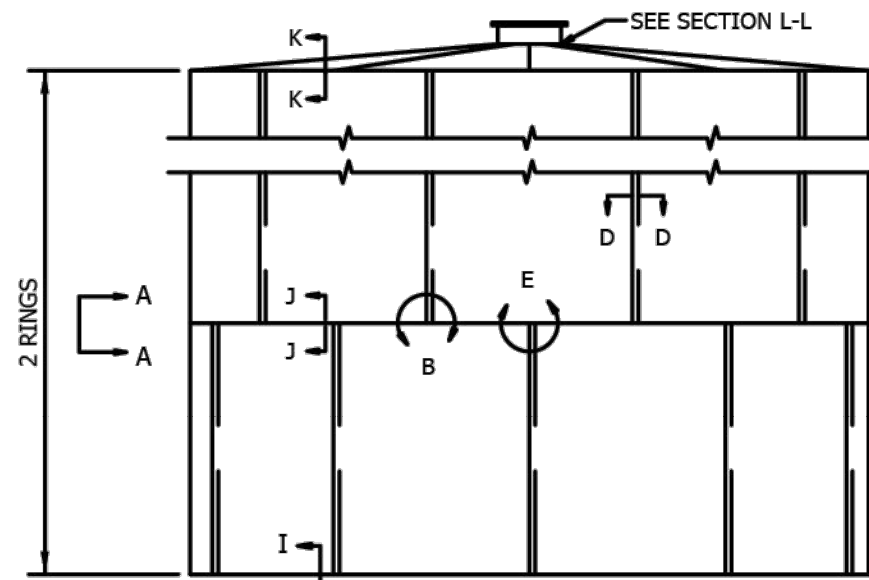


TYPICAL CHIME SPACE DETAIL
TYPICAL FOR 1,2 & 3 ROWS VERTICAL
FOR SPECIAL GRADE MATERIAL
CHIMES TOP & BOTTOM WILL BE
NOTCHED AS FOLLOWED.

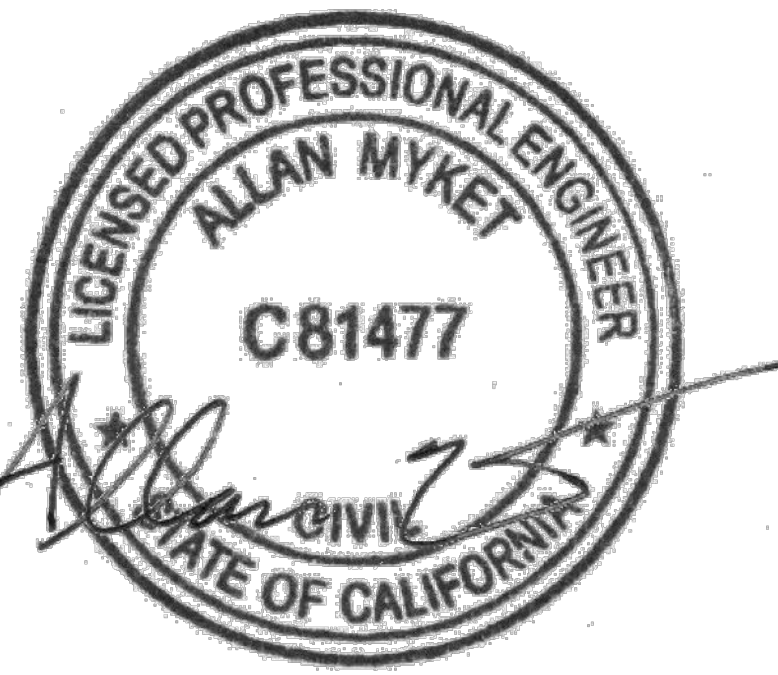
GRADE 50 - 1 NOTCH
GRADE 55 - 2 NOTCHES
GRADE 60 - 3 NOTCHES
GRADE 65 - 4 NOTCHES
GRADE 70 - 5 NOTCHES



NOTE:
USE CHIME LAP GASKETS AT DECK SEAM LAPS AT
CENTER DOME, APPLY CAULKING ALONG THE BUMP
OF EACH CHIME LAP GASKET.



TANK ELEVATION
LIQUID TANK GASKET STANDARD:
 1 ROW VERTICAL: SINGLE PUNCH GASKET
 2 ROW VERTICAL: DOUBLE PUNCH GASKET
 3 ROW VERTICAL: TRIPLE PUNCH GASKET
SUBSTITUTION:
 SINGLE PUNCH GASKET (X 2) OR (X 3) MAY BE
 SUBSTITUTED FOR 2 ROW AND 3 ROW VERTICAL



11/20/23



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART I - POTABLE WATER TANK

CST TANK DETAILS

TANK HARDWARE

DATE: JUNE 13, 2025	DWG No. T-3 SHEET No. 12 OF 48
SCALE: AS INDICATED	
PROJECT No.: 2789-003	

[illegible]

\\CST\IT\2789-003\Water Treatment Facility\Project\AutoCAD\DWG\T-14-11-14-15 CST TANK & FOUNDATION PLANS.dwg

GENERAL NOTES:

1. TANK DESIGN: AWWA D103-09
2. BUILDING CODE: CBC 2022 w ASCE 7-16
3. CONCRETE DESIGN: 318-19
4. RISK CATEGORY: 3
5. ROOF SERVICE LIVE LOAD: 25 PSF
6. WIND VELOCITY: 103 MPH
7. EXPOSURE CATEGORY: C
8. SEISMIC SHORT PERIOD ACCELERATION S_s = 271.00 %g
9. SEISMIC 1 SEC PERIOD ACCELERATION S₁ = 109.00 %g
10. SITE CLASS: C
11. SEISMIC DESIGN CATEGORY: E
12. TRANSITION PERIOD T_L: 8.00
13. PROVIDE ½” MIN CANE FIBER JOINT FILLER PER ASTM D1751 BENEATH TANK BOTTOM ABOVE RINGWALL FOOTING PER AWWA D103-09.

FOUNDATION NOTES:

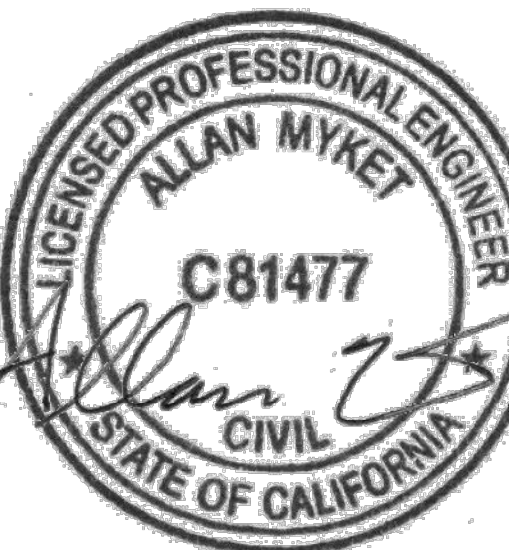
1. THE FOUNDATION SHALL BE CONSTRUCTED ACCORDING TO THE REQUIREMENTS OF SECTION 13 OF AWWA D103-09 FOR A TYPE 1 FOUNDATION (STEEL-BOTTOM TANKS SUPPORTED ON RINGWALLS).
2. THE SITE SHALL BE CLEARED OF ALL VEGETATION, ORGANIC MATERIALS, RUBBISH, DEBRIS, AND OTHER FOREIGN OR OBJECTIONABLE MATERIALS ABOVE THE GROUND SURFACE. REMOVE ALL TOP SOIL, STUMPS, LARGE ROOTS, BURIED LOGS, AND OTHER OBJECTIONABLE MATERIALS BELOW THE GROUND SURFACE.
3. THE FOUNDATION DESIGN AND DRAWINGS ARE BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT DATED OCTOBER 16, 2023 BY MILLER PACIFIC ENGINEERING GROUP, PROJECT NUMBER 960.109. THE RECOMMENDATIONS CONTAINED IN THAT REPORT AND ALL SUPPLEMENTAL REPORTS SHALL BE FOLLOWED.
4. NOT USED.
5. SOIL BENEATH THE ENTIRE TANK AND FOUNDATION SHALL BE INSPECTED AND CERTIFIED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION OF THE FOUNDATION TO VERIFY THAT THE FOLLOWING CRITERIA HAVE BEEN MET. IF THE SOIL IS NOT VERIFIED, OR IF THE SOIL DOES NOT MEET ALL OF THESE CRITERIA, THE FOUNDATION DESIGN AND DRAWINGS SHALL BE NULL AND VOID.
 - 5.a. THE SOIL SHALL BE UNDISTURBED SOIL OR COMPACTED FILL.
 - 5.b. THE SOIL SHALL HAVE A MINIMUM ALLOWABLE BEARING CAPACITY OF 2500 PSF AT 2'-6" BELOW GRADE. ALL SOIL BENEATH THE ENTIRE TANK AND FOUNDATION SHALL MEET OR EXCEED THE MINIMUM BEARING CAPACITY.
 - 5.c. THE SOIL SHALL PROVIDE UNIFORM SUPPORT FOR THE ENTIRE FOUNDATION.
 - 5.d. THE SOIL SHALL BE SUITABLE IN ALL RESPECTS TO PROPERLY SUPPORT THE TANK.
6. THE SOILS SHALL BE INSPECTED AND CERTIFIED AS SUITABLE IMMEDIATELY PRIOR TO PLACING OF CONCRETE.
7. ALL COMPACTED FILL SHALL BE PLACED AS RECOMMENDED BY THE GEOTECHNICAL REPORT. IF NO COMPACTION IS

- SPECIFIED OR OTHERWISE DIRECTED BY THE ONSITE GEOTECHNICAL ENGINEER, ALL COMPACTED FILL SHALL BE PLACED IN LAYERS NOT EXCEEDING 6" IN LOOSE THICKNESS AND SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY PER ASTM D698 OR ASTM D1557. IN THE EVENT OF CONFLICTS THE MOST STRINGENT SHALL APPLY.
8. NOT USED.
 9. NOT USED.
 10. NO WATER-SOLUBLE SULFATE TESTING AVAILABLE. CONTRACTOR TO INSURE THAT SOIL SULFATE LEVELS ARE NEGLIGIBLE OR SHALL UPGRADE CONCRETE IN CONTACT WITH SOILS AS NECESSARY.
 11. IF CONDITIONS EXIST WHICH REQUIRE FOOTING AND/OR SLAB DESIGN DETAILS DIFFERING FROM THOSE SHOWN ON THE DRAWINGS, SUCH NEW DESIGN AND DETAILS SHALL BE PROVIDED BY THE OWNER OR THE OWNER'S DESIGNATED AGENT. CST STORAGE CANNOT SHOW DETAILS ON ITS DRAWINGS OTHER THAN THOSE DERIVED AS A RESULT OF THE DESIGN EFFORTS OF ITS OWN ENGINEERING DEPARTMENT.

CONCRETE NOTES:

1. RINGWALLS AND SLABS, BEFORE PLACING THE CANE JOINT FIBER FILLER, SHALL BE LEVEL WITHIN +/- 1/8" IN ANY 30 FT CIRCUMFERENCE UNDER THE SHELL. THE LEVELNESS OF THE CIRCUMFERENCE SHALL NOT VARY BY MORE THAN +/- 1/4" FROM AN ESTABLISHED PLANE.
2. CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 301-16 EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS NOTED BELOW.
3. CONCRETE SHALL ATTAIN AN ULTIMATE 28-DAY COMPRESSIVE STRENGTH (F'c) OF 4,000 PSI.
4. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60. WELDING OF BARS IS NOT PERMITTED. FIELD BENDING OF PARTIALLY EMBEDDED REINFORCING BARS SHALL CONFORM TO SECTION 3.3.2.8 OF ACI 301-16.
5. CEMENT SHALL CONFORM TO ASTM C150, TYPE 2 WITH AIR ENTRAINING ADMIXTURE PER ASTM C260 ADDED AT THE MIXER TO ACHIEVE 4%±2% BY VOLUME OF ENTRAINED AIR AT THE POINT OF CONCRETE PLACEMENT.
6. MAXIMUM WATER CEMENT RATIO: 0.45
7. MAXIMUM AGGREGATE SIZE SHALL BE 1½". FINE AND COARSE AGGREGATES SHALL CONFORM TO ASTM C33, AND THE RESTRICTIONS ON REACTIVE MATERIALS SPECIFIED IN ASTM C33, PARAGRAPHS 7.3 AND 11.2, SHALL APPLY.
8. READY MIX CONCRETE SHALL CONFORM TO ASTM C94, OPTION A. THE SUPPLIER SHALL BE RESPONSIBLE FOR DETERMINING THE PROPORTIONS USED IN THE CONCRETE MIX.
9. EARTH CUTS MAY BE USED AS FORMWORK FOR FOOTINGS ONLY, PROVIDED THE FOOTING DEPTH DOES NOT EXCEED 48".
10. THE FOLLOWING SECTIONS OF ACI 301-16 DO NOT APPLY: ARCHITECTURAL CONCRETE, LIGHTWEIGHT CONCRETE, MASS CONCRETE, PRESTRESSED CONCRETE, AND SHRINKAGE-COMPENSATING CONCRETE.
11. MINIMUM COVER FOR REINFORCING STEEL SHALL BE 3" CLEAR UNLESS NOTED OTHERWISE.
12. ALL REINFORCING SHALL BE BENT COLD.

13. LAP SPLICES OF REINFORCING STEEL SHALL BE PER THE REBAR SPLICE SCHEDULE UNLESS NOTED OTHERWISE. MINIMUM STAGGER OF SPLICES SHALL BE THE GREATER OF ONE LAP LENGTH OR 24".
14. FABRICATE AND PLACE REINFORCEMENT IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE.
15. ALL BENDS SHALL BE ACI STANDARD HOOKS. TIES AND STIRRUPS SHALL USE ACI STIRRUP AND TIE HOOKS UNLESS OTHERWISE NOTED.



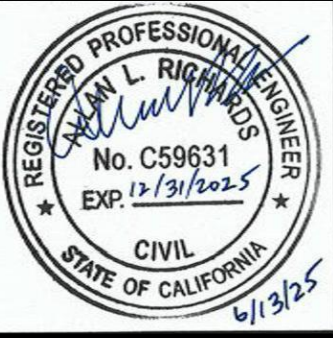
11/20/23



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

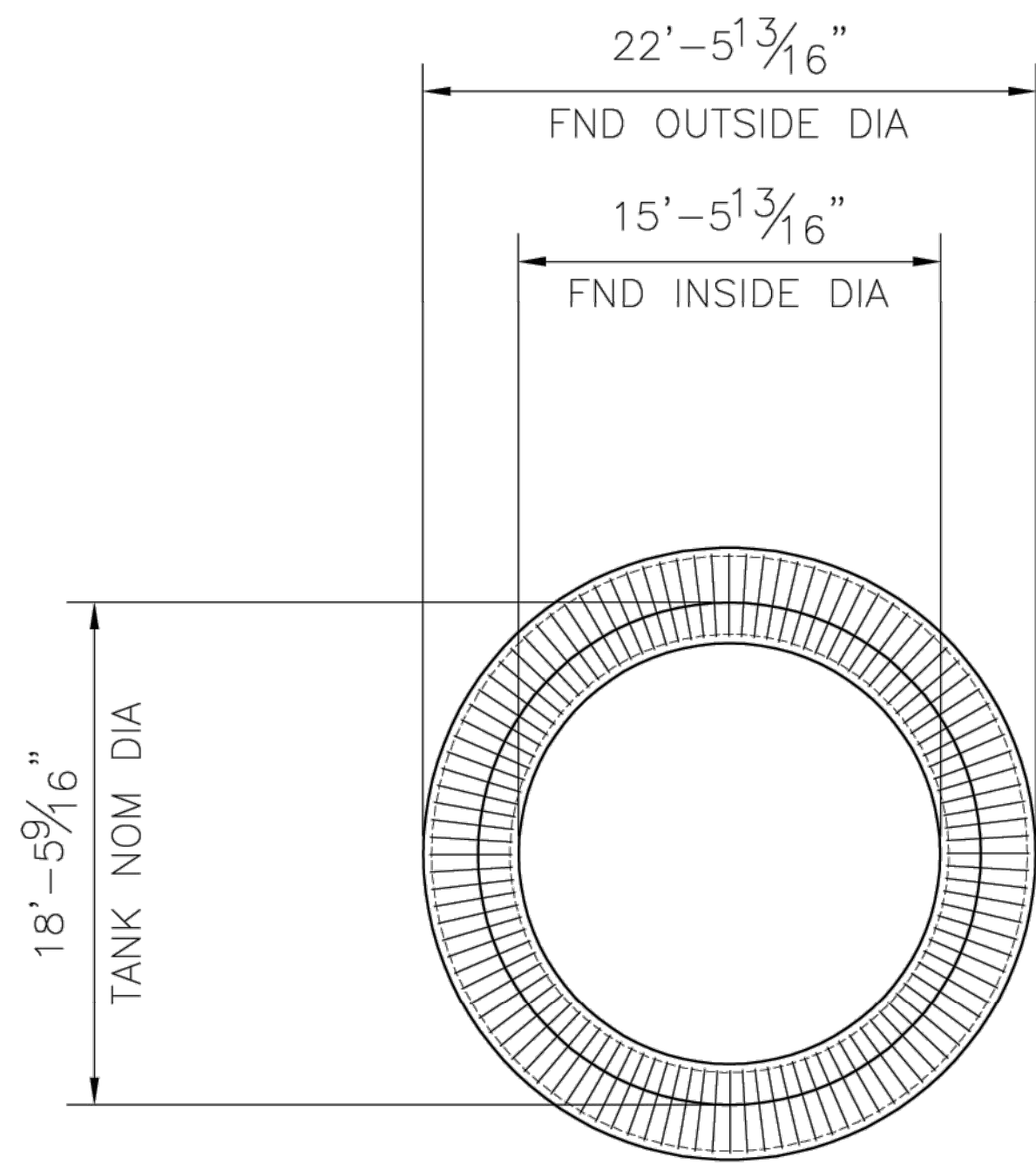


TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

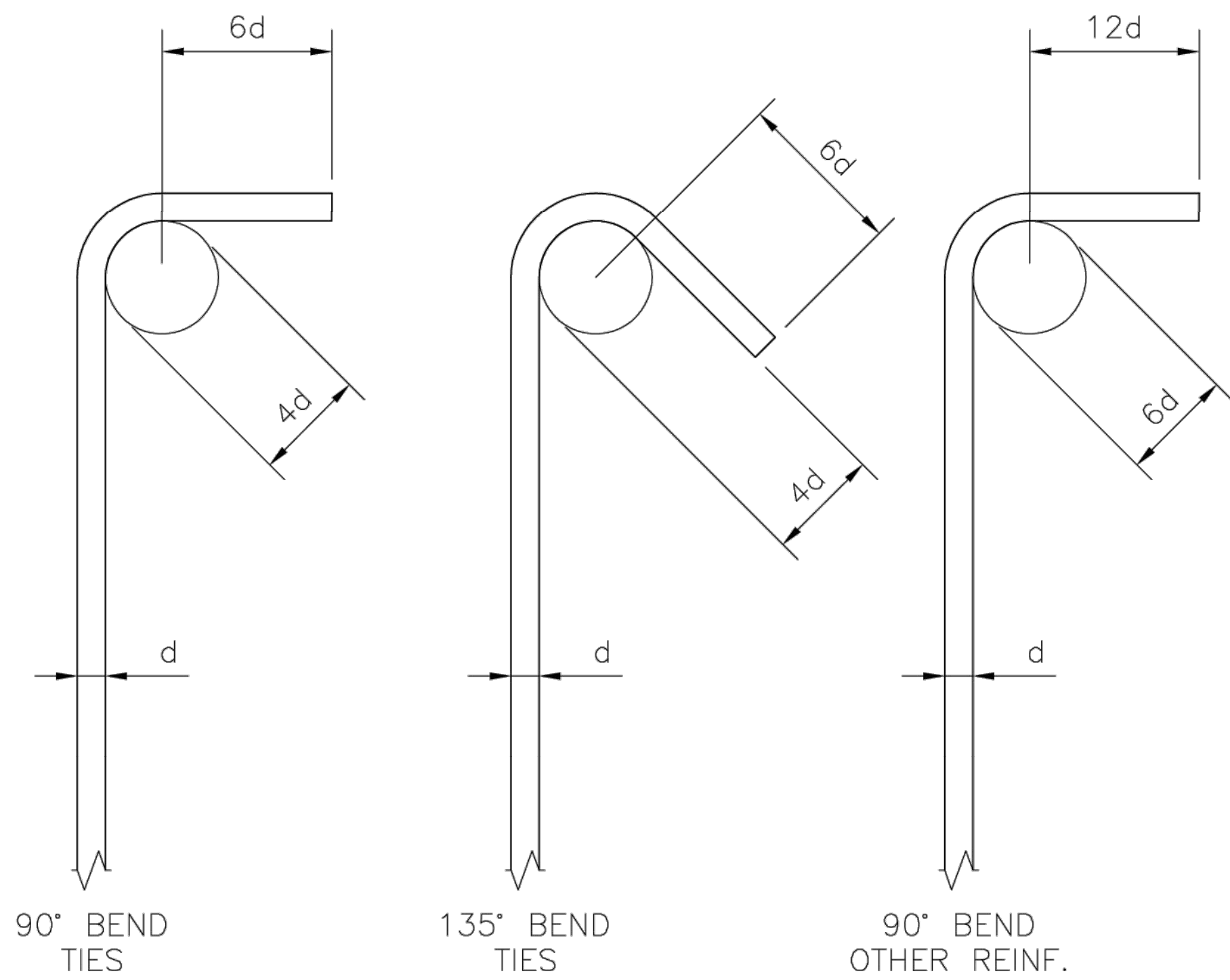
PART I - POTABLE WATER TANK
CST FOUNDATION NOTES

DATE: JUNE 13, 2025	DWG No. T-4
SCALE: NO SCALE	SHEET No. 13 OF 48
PROJECT No.: 2789-003	

RELEASED TO FABRICATION PER ECO-003586005				11/10/23		TGS	MMN
REV	REVISION			DATE	BY	APR.	
CST STORAGE		GENERAL NOTES 18'-5 9/16" DIA x 18' HIGH TANK FOR: TRINIDAD RANCHERIA TRINIDAD, CA., USA					
		DRAWN BY KMB	ORDER NO. 20-9502	DATE FEB 22, 2021	DWG. NO. 918F018-209502FND1		
		CHECKED BY MMN	APPROVED BY JAG				
		CONFIDENTIAL / TRADE SECRETS: BY ACCEPTING POSSESSION OF THIS DOCUMENT, RECIPIENT AGREES THAT ITS CONTENTS ARE CONFIDENTIAL, PROPRIETARY TRADE SECRETS OF CST STORAGE. NO PORTION OF THIS DOCUMENT MAY BE REPRODUCED, DISTRIBUTED OR USED IN ANY MANNER WITHOUT WRITTEN PERMISSION FROM CST STORAGE.					

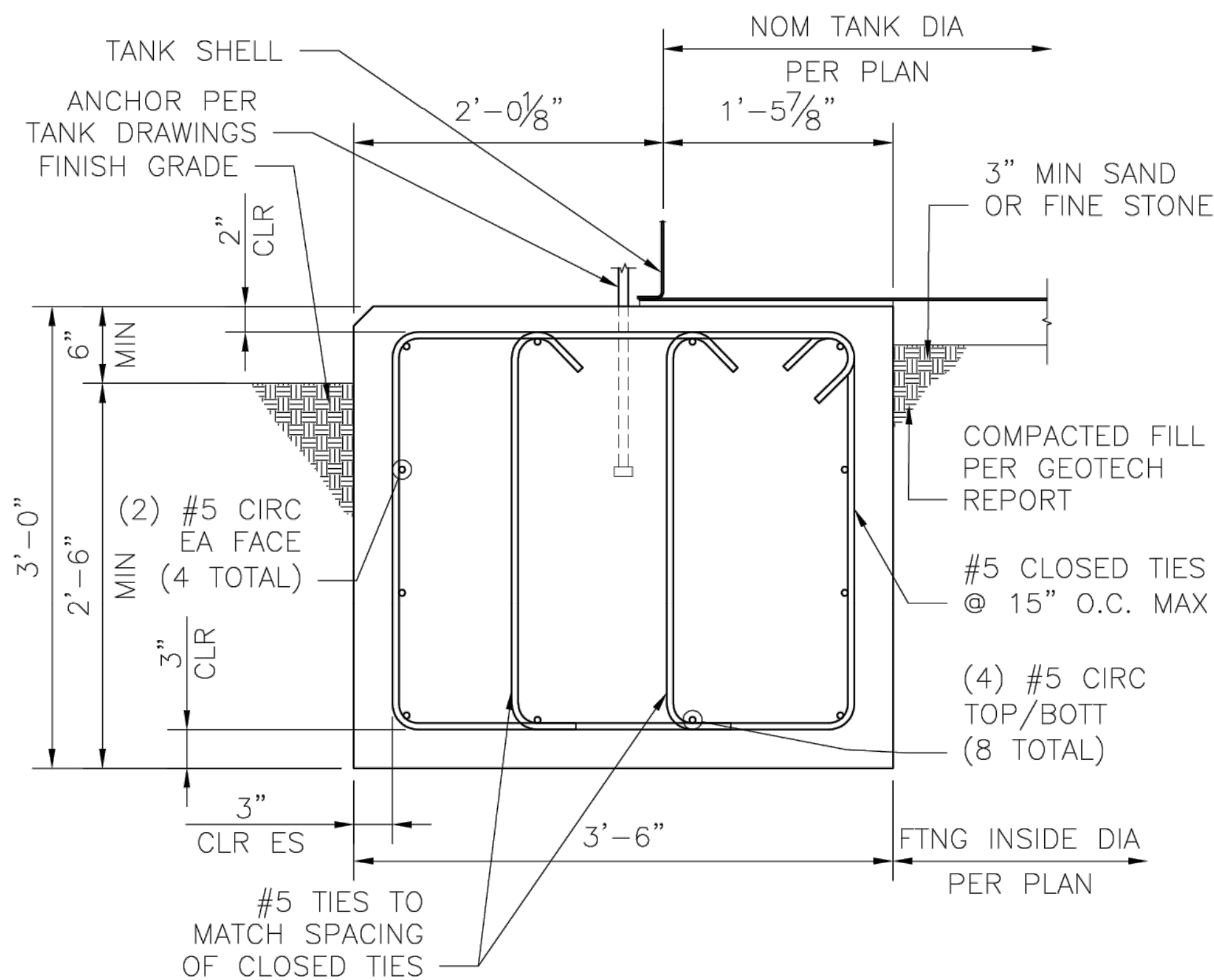


FOUNDATION PLAN

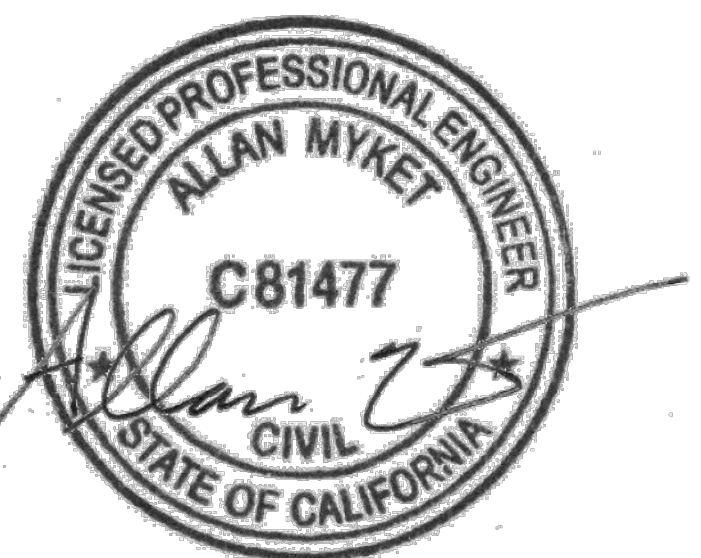


STANDARD HOOKS

REBAR SPLICE SCHEDULE	
REBAR SIZE	SPLICE LENGTH
#4	32"
#5	40"
#6	48"
#7	70"
#8	80"



SECTION AT RING WALL FOOTING



11/20/23



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART I - POTABLE WATER TANK
CST FOUNDATION
PLAN AND DETAILS

DATE: JUNE 13, 2025	DWG No. T-5
SCALE: NO SCALE	SHEET No. 14 OF 48
PROJECT No.: 2789-003	

RELEASED TO FABRICATION PER ECO-003586005		11/10/23	TGS	MMN
REV	REVISION	DATE	BY	APR.
	FOUNDATION PLAN AND DETAILS FOR: 18'-5 9/16" DIA x 18' HIGH TANK TRINIDAD RANCHERIA TRINIDAD, CA., USA			
DRAWN BY: KMB	ORDER NO: 20-9502	DATE: FEB 22, 2021	DWG. NO: 918F018-209502FND2	
CHECKED BY: MMN	APPROVED BY: JAG			
CONFIDENTIAL / TRADE SECRETS: BY ACCEPTING POSSESSION OF THIS DOCUMENT, RECIPIENT AGREES THAT ITS CONTENTS ARE CONFIDENTIAL, PROPRIETARY TRADE SECRETS OF CST STORAGE. NO PORTION OF THIS DOCUMENT MAY BE REPRODUCED, DISTRIBUTED OR USED IN ANY MANNER WITHOUT WRITTEN PERMISSION FROM CST STORAGE.				

TRINIDAD RANCHERIA WATER TREATMENT FACILITY PROJECT

CHER-AE HEIGHTS INDIAN COMMUNITY OF THE TRINIDAD RANCHERIA - CALIFORNIA

FUNDED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES, UNDER THE SMALL COMMUNITY DROUGHT RELIEF PROGRAM

PART II - WATER TREATMENT FACILITY

GENERAL NOTES

1. PRIOR TO START OF ANY PHASE II (WATER TREATMENT FACILITY) WORK AT THE PROJECT SITE, THE CONTRACTOR SHALL NOTIFY TRINIDAD RANCHERIA'S REPRESENTATIVE AND, THE PROJECT ENGINEER, STETSON ENGINEERS INC., ATTN: ALLAN RICHARDS (415) 457-0701 / ALLANR@STETSONENGINEERS.COM, TO ALLOW PROPER COORDINATION AND NOTIFICATION TO THE TRINIDAD RANCHERIA AND PROPERTY OWNERS.
2. THE PROJECT'S PART II - WATER TREATMENT FACILITY (WTF) WORK SHALL CONSIST OF SITE PREPARATION, COMPLETE CONSTRUCTION OF 441 S.F. BUILDING, AND A NEW TANK FARM TO HOUSE THREE (3) 4,600-GAL. TANKS. THE NEW WTF BUILDING SHALL INCLUDE COMPLETE INSTALLATION OF NEW WATER TREATMENT EQUIPMENT (DELIVERED AND INSTALLED BY OTHERS), ELECTRICAL, ASSOCIATED PIPING, AND CONNECTIONS. THE COMPLETED WORK OF THE WTF WILL INCLUDE SITE PIPING, UTILITIES, GRADING, PAVING, AND HYDROSTATIC PRESSURE TEST AND DISINFECTION OF ALL PIPE.
3. WATER TREATMENT EQUIPMENT, PRE-PURCHASED FROM TRINIDAD RANCHERIA, SHALL BE DELIVERED AND INSTALLED BY PUREFLOW FILTRATION DIVISION.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH PUREFLOW FILTRATION DIVISION REPRESENTATIVE DURING PART II CONSTRUCTION FOR WATER TREATMENT EQUIPMENT AND ALL NECESSARY ELECTRICAL AND PLUMBING CONNECTIONS TO ALLOW WATER TREATMENT EQUIPMENT TO BE FULLY OPERATIONAL. ALL CONNECTING PIPING, CONDUIT, WIRE, ETC., SHALL BE PURCHASED AND INSTALLED BY THE CONTRACTOR. TREATMENT EQUIPMENT CONNECTING PIPING, CONDUIT, WIRE, ETC., DEFINED THE LIMITS OF PIPING, MAY BE DEFINED BY SHOP DRAWINGS PROVIDED BY WATER TREATMENT EQUIPMENT VENDOR. ALL ADDITIONAL MATERIALS REQUIRED BY THE PROJECT MANUAL AND CONTRACT DRAWINGS ARE REQUIRED FOR A FULLY OPERATIONAL WATER TREATMENT SYSTEM SHALL BE PURCHASED AND INSTALLED BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL ADHERE TO ALL PERTINENT SECTIONS OF THE INTERNATIONAL BUILDING CODE, LATEST EDITION, WITH REGARD TO SPECIFICATIONS FOR CONCRETE BLOCK CONSTRUCTION, WOODEN ROOF AND TRUSS SYSTEMS, AND CONNECTIONS BETWEEN CONCRETE BLOCK CONSTRUCTION ITEMS AND WOODEN ROOF/TRUSS SYSTEMS.
6. THE PROJECT WORK SHALL ALSO CONSIST OF INSTALLING PIPE THAT WILL CONNECT WITH OFF-SITE PIPING DURING PART III - DISTRIBUTION PIPELINES. PIPING SHALL BE FLANGED CAPPED FOR FUTURE CONNECTION AT THE FOLLOWING LOCATIONS: ONE (1) RAW WATER TIE-IN CONNECTION NEAR THE NORTH-EAST SIDE OF THE PROJECT SITE. PLEASE SEE PLANS FOR APPROXIMATE CONNECTION LOCATIONS. EXACT CONNECTION LOCATIONS SHALL BE DETERMINED IN THE FIELD.
7. ALL PIPING SHALL BE INSTALLED BY OPEN-CUT TRENCH METHOD OVER EXISTING UNIMPROVED AREAS, INCLUDING PIPE BEDDING, INSTALLATION OF FITTINGS AND AS-NEEDED VALVES, AND APPURTENANCES.
8. THE CONTRACTOR SHALL NOTIFY USA NORTH 811 AT WWW.USANORTH811.ORG, AT LEAST TWO (2) WORKING DAYS NOT INCLUDING DAY OF NOTIFICATION, WHICHEVER IS LATER, HAS PASSED AND ALL NOTIFIED UTILITY MEMBERS HAVE POSITIVELY RESPONDED TO REQUEST.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM UTILITY EXPLORATION TO VERIFY LOCATIONS OF EXISTING UTILITIES (INCLUDING BUT NOT LIMITED TO, GAS PIPELINES, EXISTING WATER PIPELINES, ELECTRICAL, CABLE, AND TELECOMMUNICATIONS UTILITIES, BURIED OR ABOVE GROUND) BY POT-HOLING OR OTHER MEANS, AND PROTECT UTILITIES IN PLACE. CONTRACTOR SHALL REPORT TO THE ENGINEER ANY DISCREPANCIES FOUND OR ANY DETAILS NOT SHOWN ON THE DRAWINGS. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR BEFORE THE SUBMITTAL OF SHOP DRAWINGS FOR THE PIPE AND SPECIAL PIPE SECTIONS.

10. THIS PLAN DOES NOT AUTHORIZE ANY WORK WITHIN PUBLIC / PRIVATE RIGHT-OF-WAYS WITHOUT REQUIRED APPROVALS AND / OR PERMITS. CONTRACTOR SHALL WORK WITH TRINIDAD RANCHERIA TO OBTAIN PROPER APPROVAL(S) AND/OR PERMIT(S) AND SHALL SUBMIT TO TRINIDAD RANCHERIA AND PROJECT ENGINEER ALL APPROVAL(S) / PERMIT(S) WITH START OF WORK NOTIFICATION.
11. THE LOCATION OF THE EXISTING WATER PIPELINES FOR TIE-INS ARE APPROXIMATED IN THESE DRAWINGS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ACTUAL LOCATIONS AND ALIGNMENT OF EXISTING WATER PIPELINES PRIOR TO START OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES.
12. ALL WORK DETAILED HEREIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IN THE CASE OF DISCREPANCY OR AMBIGUITY IN CONTRACT DOCUMENTS AND THIS SET OF DRAWINGS, THE CONTRACTOR IS REFERRED TO DOCUMENT 00700 - GENERAL CONDITIONS ARTICLE 5.7 - PRECEDENCE OF DOCUMENTS OF THE PROJECT MANUAL.
13. STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR AGAINST THE APPROVED EQUIPMENT SUBMITTAL PRIOR TO CONSTRUCTION.
14. MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE PLANS BUT REQUIRED BY OTHER CONTRACT DRAWINGS OR APPROVED SUBMITTALS SHALL BE PROVIDED FOR PRIOR TO PLACING CONCRETE.
15. NO REVISIONS SHALL BE MADE TO THESE DRAWINGS WITHOUT THE APPROVAL OF THE PROJECT ENGINEER AND THE TRINIDAD RANCHERIA.
16. ANY DATA AND INFORMATION PROVIDED BY THE TRINIDAD RANCHERIA ARE FOR THE CONTRACTOR'S INFORMATION ONLY. ANY INTERPRETATIONS OR CONCLUSIONS DRAWN BY THE CONTRACTOR FROM THEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
17. DURING CONSTRUCTION, THE STRUCTURES INSTALLED SHALL BE PROTECTED BY BRACING AND BALANCING WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR.
18. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT EXISTING STRUCTURES, UTILITIES, FENCING, ETC., FROM DAMAGE. CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY DAMAGE TO SUCH FACILITIES.
19. CIVIL DRAWINGS WHERE STRUCTURES ARE PROVIDED SHALL BE USED IN COORDINATION WITH OTHER CIVIL OR ELECTRICAL DRAWINGS, AND SHOP DRAWINGS PROVIDED BY MANUFACTURERS OF EQUIPMENT.
20. THE CONTRACTOR SHALL EXERCISE CARE AND SAFETY WHEN WORKING NEAR EXISTING UTILITIES ON SITE INCLUDING EXISTING WATER MAINS AND APPURTENANCES, AND ELECTRICAL UTILITIES, AND SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE, BREAKAGE, OR LEAKS CAUSED BY THE CONTRACTOR'S WORK.
21. THE CONTRACTOR SHALL RESTORE THE GROUND SURFACE OF EXCAVATED AREAS TO ORIGINAL GRADE AS REASONABLY POSSIBLE UNLESS OTHERWISE SHOWN OR DIRECTED.
22. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES, STRUCTURES, FENCING, ETC. FROM DAMAGE. CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY DAMAGE TO SUCH FACILITIES.
23. THE ENGINEER HAS, BY SEARCH OF KNOWN RECORDS, ENDEAVORED TO LOCATE AND INDICATE ON THE PLANS ALL THE UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK. HOWEVER, THE ACCURACY OR COMPLETENESS OF THE UTILITIES ON THE DRAWINGS IS NOT GUARANTEED.
24. STATIONS SHOWN ON THE DRAWINGS ARE ALONG OR ON A LINE NORMAL OR RADIAL TO THE CENTER LINE OF THE WATER LINE.

25. ALL BURIED STEEL AND IRON PIPE FITTINGS AND VALVES SHALL BE COATED AS INDICATED AND DOUBLE WRAPPED WITH 4-MIL HIGH DENSITY POLYETHYLENE.
26. ALL WATER LINES SHALL HAVE A MINIMUM OF THIRTY (30") INCHES OF COVER OR HAVE SUFFICIENT INSULATION TO PREVENT FREEZING, UNLESS OTHERWISE SHOWN. ALL WATER LINES SHALL MAINTAIN A TEN (10') FOOT HORIZONTAL AND ONE (1') VERTICAL (ABOVE) SEPARATION FROM SEWER AND RAW WATER PIPELINES.
27. ALL BURIED VALVES SHALL BE INSTALLED WITHIN A VALVE BOX AND VALVE STEM EXTENSION.
28. WATER LINES SHALL BE PRESSURE TESTED AND DISINFECTED PER THE AWWA STANDARDS PRIOR TO PLACING THE NEW WATER PIPELINE INTO SERVICE.

SURVEY CONTROL NOTES

1. FIELD SURVEY FOR TOPOGRAPHIC PURPOSES WAS PERFORMED BY TOLS ON 8/3/2023 & 11/1/2023. NO LIABILITY IS ASSUMED BY TOLS FOR THE EXISTENCE OF SUBSURFACE FEATURES, IF ANY EXIST.
2. VERTICAL AND HORIZONTAL DATUMS ARE ASSUMED.
3. A BOUNDARY SURVEY WAS NOT CONDUCTED BY TVCE. NO LIABILITY IS ASSUMED BY TVCE FOR FOR TITLE DEFECTS OR ENCUMBRANCES, IF ANY EXIST.
4. PROPERTY LINES SHOWN HEREIN ARE PER BOOK 23 OF SURVEYS, PAGE 82, HUMBOLDT COUNTY RECORDS, AS EVIDENCED BY FOUND MONUMENTS.

CULTURAL MONITORING

1. CULTURAL MONITORING IS REQUIRED UNDER THIS PROJECT AND CONTRACT AGREEMENT FOR ANY GROUND DISTURBING ACTIVITIES. DURING CONSTRUCTION, THE CONTRACTOR IS TO ADHERE TO THE REQUIREMENTS OF THE TRINIDAD RANCHERIA THPO AND CULTURAL MONITOR IN THE EVEN OF DISCOVERY OF SENSITIVE ITEMS AS DEFINED AND EXPLAINED HEREIN.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE RANCHERIA SEVENTY-TWO (72) HOURS PRIOR TO CONDUCTING GROUND DISTURBANCE ACTIVITIES.
3. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH TRINIDAD RANCHERIA THPO TO ENSURE A TRINIDAD RANCHERIA CULTURAL MONITOR IS AVAILABLE DURING ANY GROUND DISTURBANCE ACTIVITIES.



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA WATER TREATMENT FACILITY PROJECT PHASE I

PART II - WATER TREATMENT FACILITY
GENERAL NOTES; SURVEY NOTES; AND CULTURAL MONITORING

DATE: JUNE 13, 2025
SCALE: AS INDICATED
PROJECT No.: 2789-003

DWG No. G-5
SHEET No. 15 OF 48

\\D:\12\2789-003\2789-003-Water Treatment Facility\Drawings\AutoCAD\WTF Project - Phase I (Amended) ILS 17 G-5 - G-7 WTF GENERAL SHEETS.dwg

TRINIDAD RANCHERIA WATER TREATMENT FACILITY PROJECT

CHER-AE HEIGHTS INDIAN COMMUNITY OF THE TRINIDAD RANCHERIA - CALIFORNIA

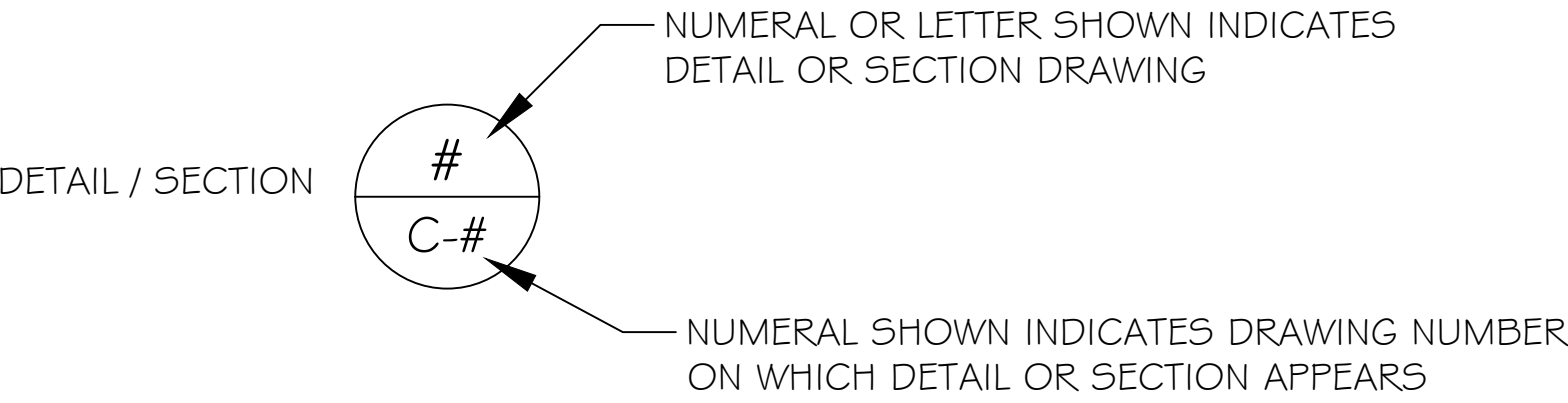
FUNDED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES, UNDER THE SMALL COMMUNITY DROUGHT RELIEF PROGRAM

PART II - WATER TREATMENT FACILITY

ABBREVIATIONS

AC	ASBESTOS - CEMENT PIPE
APPROX	APPROXIMATED
C	CENTER LINE
CONC	CONCRETE
CTS	CATHODIC TEST STATION
CY	CUBIC YARDS
DI	DUCTILE IRON
DIAM	DIAMETER
DIP	DUCTILE IRON PIPE
(E)	EXISTING
E	ELECTRIC
EG	EXISTING GROUND
ELEV	ELEVATION
FL	FLANGE
FT	FEET
GALV	GALVANIZED
IN	INCHES
L	LENGTH
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
(N)	NEW
NOM.	NOMINAL
NTS	NOT TO SCALE
NO.	NUMBER
O.C.	ON CENTER
PW	POTABLE WATER
R	RADIUS
REQ'D	REQUIRED
SQ.FT. / S.F.	SQUARE FEET
SS	STAINLESS STEEL
STD.	STANDARD
TBD	TO BE DETERMINED
T.R.	CHER-AE HEIGHTS INDIAN COMMUNITY OF THE TRINIDAD RANCHERIA
TYP	TYPICAL
W	WATER
W/	WITH
WTF	WATER TREATMENT FACILITY
°	DEGREES
'	FEET OR MINUTES
"	INCHES OR SECONDS
&	AND
@	AT
Ø	DIAMETER
#	NUMBER
%	PERCENT

REFERENCE



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
ABBREVIATIONS; REFERENCE

DATE: JUNE 13, 2025
SCALE: AS INDICATED
PROJECT No.: 2789-003

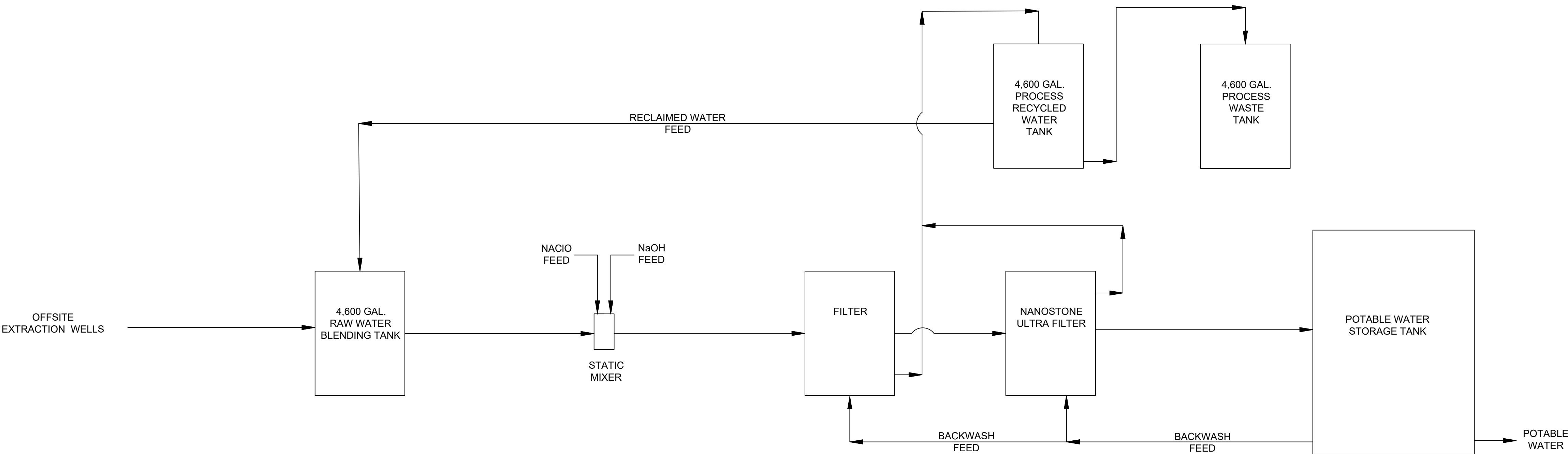
DWG No. G-6
SHEET No. 16 OF 48

TRINIDAD RANCHERIA WATER TREATMENT FACILITY PROJECT

CHER-AE HEIGHTS INDIAN COMMUNITY OF THE TRINIDAD RANCHERIA - CALIFORNIA

FUNDED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES, UNDER THE SMALL COMMUNITY DROUGHT RELIEF PROGRAM

PART II - WATER TREATMENT FACILITY



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



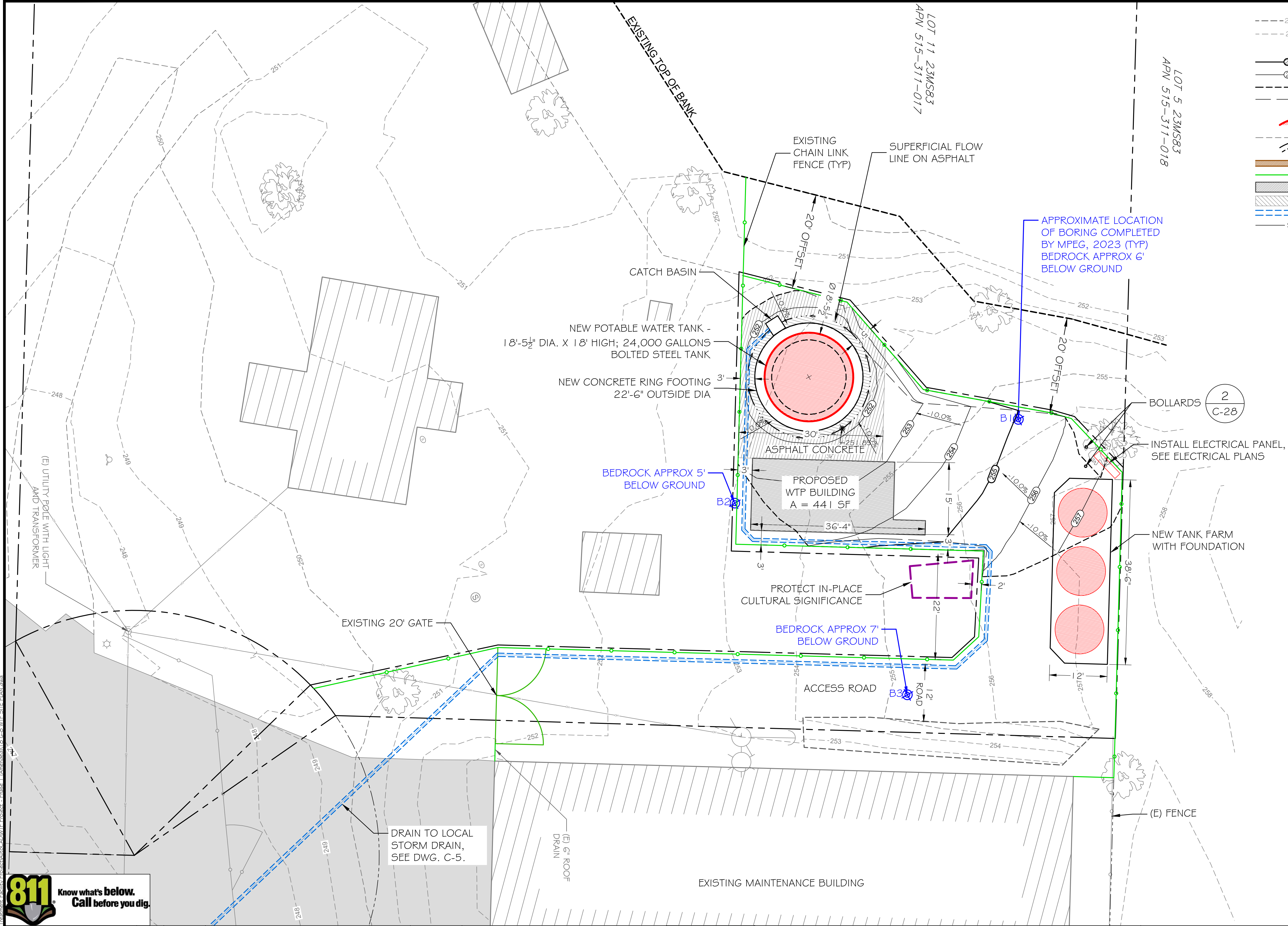
TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
PROCESS SCHEMATIC

NOTE: SEE PUREFLOW SUBMITTALS FOR MORE DETAILS.

DATE: JUNE 13, 2025
SCALE: NO SCALE
PROJECT No.: 2789-003

DWG No.
G-7
SHEET No.
17 OF 48



- EXISTING TOPOGRAPHY LEGEND**
- 250--- EXISTING MAJOR CONTOUR LINE (5 FT INTERVAL)
 - 251--- EXISTING MINOR CONTOUR LINE (1 FT INTERVAL)
- GRADING TOPOGRAPHY LEGEND**
- 250— FINISH GROUND MAJOR CONTOUR LINE (5 FT INTERVAL)
 - 251— FINISH GROUND MINOR CONTOUR LINE (1 FT INTERVAL)
 - GRADING BOUNDARY
 - GRADING BREAKLINE
- PROPOSED FACILITIES LEGEND**
- NEW TANK
 - OFFSET DESIGN LINE
 - NEW TANK CONCRETE FOOTING
 - NEW GRAVEL DRIVEWAY
 - NEW CHAIN LINK FENCE
 - PROPOSED WATER TREATMENT PLANT
 - ASPHALT CONCRETE
 - DRAIN PIPE
 - SANITARY SEWER LINE
 - APPROXIMATE BORE HOLE LOCATION

CLIENT INFORMATION: STETSON ENGINEERS, INC.
2171 E. FRANCISCO BLVD. SUITE K
SAN RAFAEL, CA 94901

SURVEY PERFORMED BY: TONY O'ROURKE LAND SURVEYING
P.O. BOX 1263 WILLOW CREEK, CA BUSINESS/CELL:
707-499-2299
TONYOROURKELANDSURVEYING.GODADDYSITES.COM

TOPOGRAPHIC SURVEY

FOR
TRINIDAD RANCHERIA WATER TREATMENT
LOCATED IN THE SECTION
T 8 N, R 1 W, H.M.
HUMBOLDT COUNTY, CALIFORNIA

SURVEY NOTES

FIELD SURVEY FOR TOPOGRAPHIC PURPOSES WAS PERFORMED BY TOLS ON 8/3/2023 & 11/1/2023. NO LIABILITY IS ASSUMED BY TOLS FOR THE EXISTENCE OF SUBSURFACE FEATURES, IF ANY EXIST.

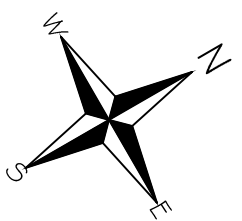
VERTICAL AND HORIZONTAL DATUMS ARE ASSUMED.

A BOUNDARY SURVEY WAS NOT CONDUCTED BY TVCE. NO LIABILITY IS ASSUMED BY TVCE FOR FOR TITLE DEFECTS OR ENCUMBRANCES, IF ANY EXIST.

PROPERTY LINES SHOWN HEREIN ARE PER BOOK 23 OF SURVEYS, PAGE 82, HUMBOLDT COUNTY RECORDS, AS EVIDENCED BY FOUND MONUMENTS.

SURVEY LEGEND

- Ⓢ EXISTING SANITARY SEWER MANHOLE
- Ⓢ EXISTING SANITARY SEWER CLEANOUT
- Ⓢ EXISTING FIRE HYDRANT
- Ⓢ EXISTING UTILITY POLE
- Ⓢ EXISTING STREET LAMP
- Ⓢ EXISTING GUY ANCHOR
- Ⓢ EXISTING TREE
- EXISTING BUILDING
- EXISTING ASPHALT PAVEMENT
- EXISTING GRAVEL TRAVEL WAY
- EXISTING OVERHEAD UTILITY LINE
- EXISTING FENCE LINE
- NEIGHBORING PARCEL LINE PER 23M583
- SUBJECT PROPERTY LINE PER 23M583



SCALE (FEET)
0 5 10 20



DESIGNED:	A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. / T.Z. / R.F.					
CHECKED:	A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA WATER TREATMENT FACILITY PROJECT PHASE I

PART II - WATER TREATMENT FACILITY

SITE PLAN LAYOUT

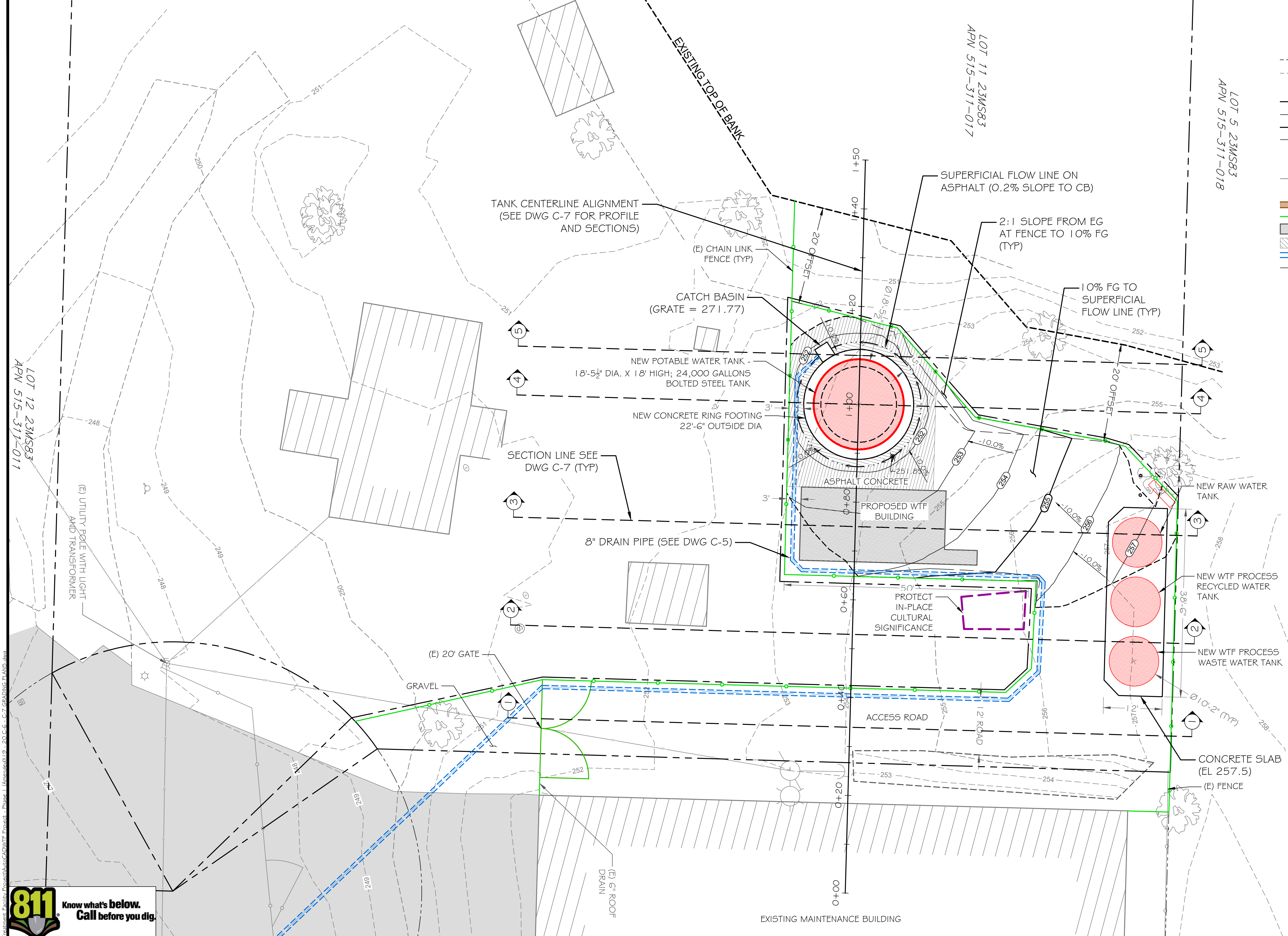
DATE:
JUNE 13, 2025

SCALE:
1" = 10'

PROJECT No.:
2789-003

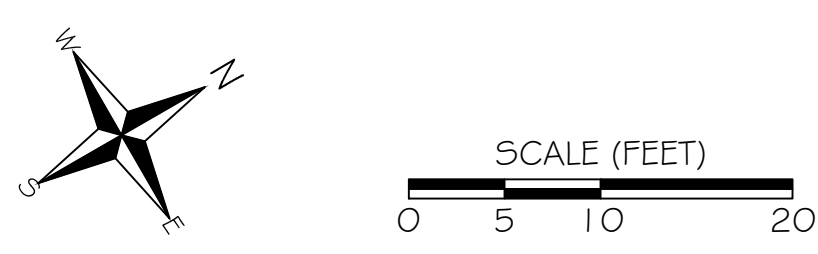
DWG No.
G-8

SHEET No.
18 OF 48



- EXISTING TOPOGRAPHY LEGEND**
- 250--- EXISTING MAJOR CONTOUR LINE (5 FT INTERVAL)
 - 251--- EXISTING MINOR CONTOUR LINE (1 FT INTERVAL)
- GRADING TOPOGRAPHY LEGEND**
- 250— FINISH GROUND MAJOR CONTOUR LINE (5 FT INTERVAL)
 - 251— FINISH GROUND MINOR CONTOUR LINE (1 FT INTERVAL)
 - GRADING BOUNDARY
 - GRADING BREAKLINE
- PROPOSED FACILITIES LEGEND**
- NEW TANK
 - OFFSET DESIGN LINE
 - NEW TANK CONCRETE FOOTING
 - NEW GRAVEL DRIVEWAY
 - NEW CHAIN LINK FENCE
 - PROPOSED WATER TREATMENT PLANT
 - ASPHALT CONCRETE
 - DRAIN PIPE
 - SANITARY SEWER LINE

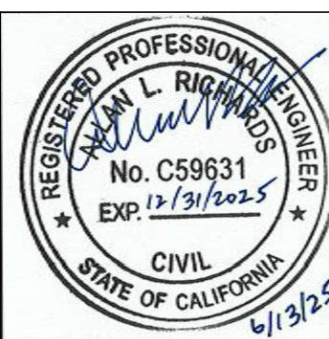
- SURVEY LEGEND**
- Ⓢ EXISTING SANITARY SEWER MANHOLE
 - Ⓢ EXISTING SANITARY SEWER CLEANOUT
 - Ⓢ EXISTING FIRE HYDRANT
 - Ⓢ EXISTING UTILITY POLE
 - Ⓢ EXISTING STREET LAMP
 - EXISTING GUY ANCHOR
 - Ⓢ EXISTING TREE
 - EXISTING BUILDING
 - EXISTING ASPHALT PAVEMENT
 - EXISTING GRAVEL TRAVEL WAY
 - EXISTING OVERHEAD UTILITY LINE
 - EXISTING FENCE LINE
 - NEIGHBORING PARCEL LINE PER 23MS83
 - SUBJECT PROPERTY LINE PER 23MS83



DESIGNED:	A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. / T.Z. / R.F.					
CHECKED:	A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

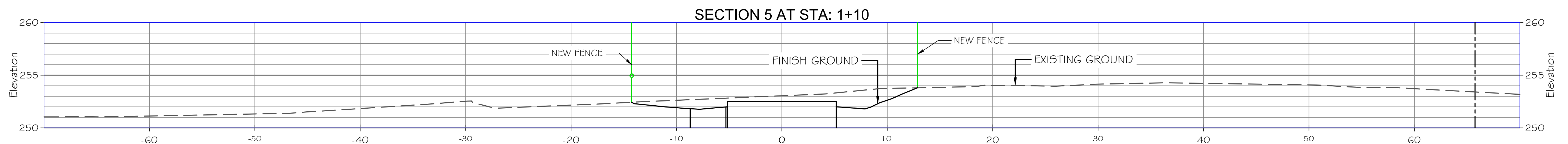
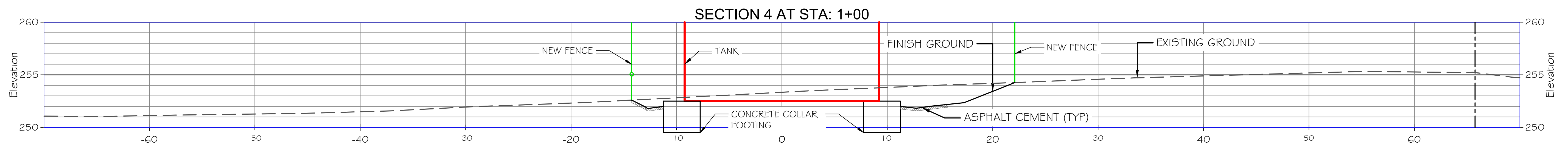
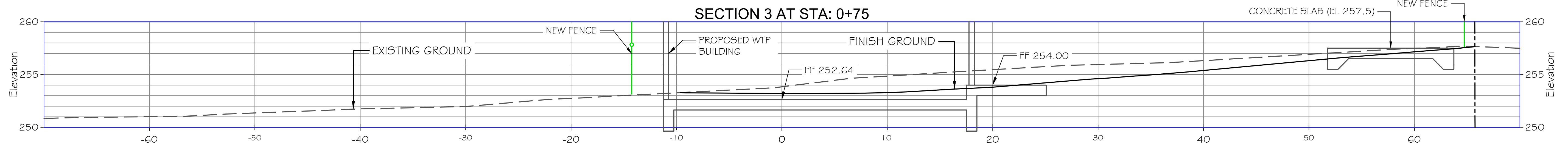
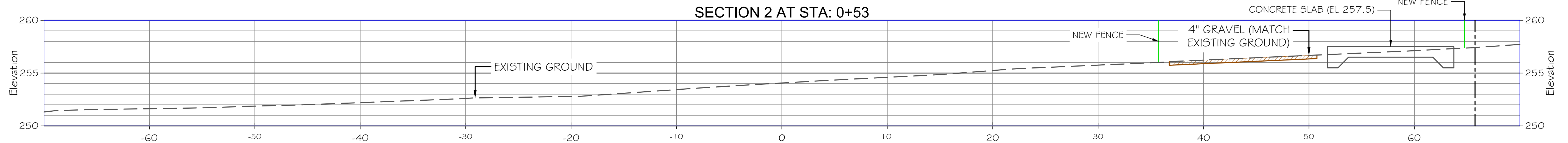
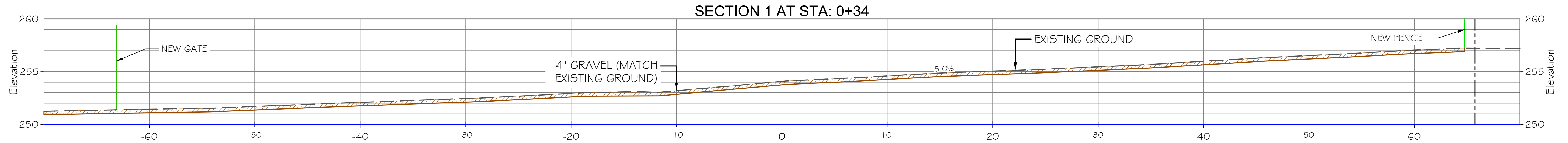
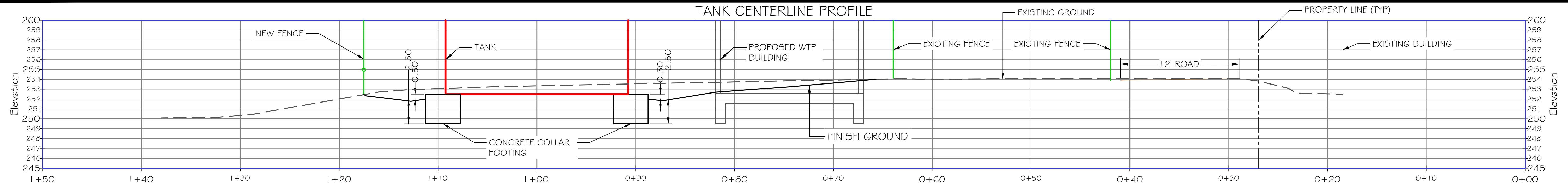


TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
GRADING PLAN

DATE:	JUNE 13, 2025
SCALE:	1" = 10'
PROJECT No.:	2789-003

DWG No.
C-6
SHEET No.
19 OF 48



\\P01\1\2729\2729-003\Water Treatment Facility\Project\AutoCAD\DWG\Profile - Phase I (Armeda)\118 - 2016.dwg - C-7 GRADING PLANS.dwg



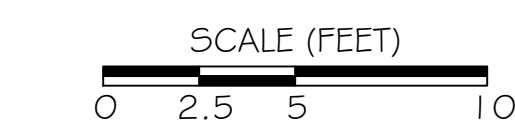
DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

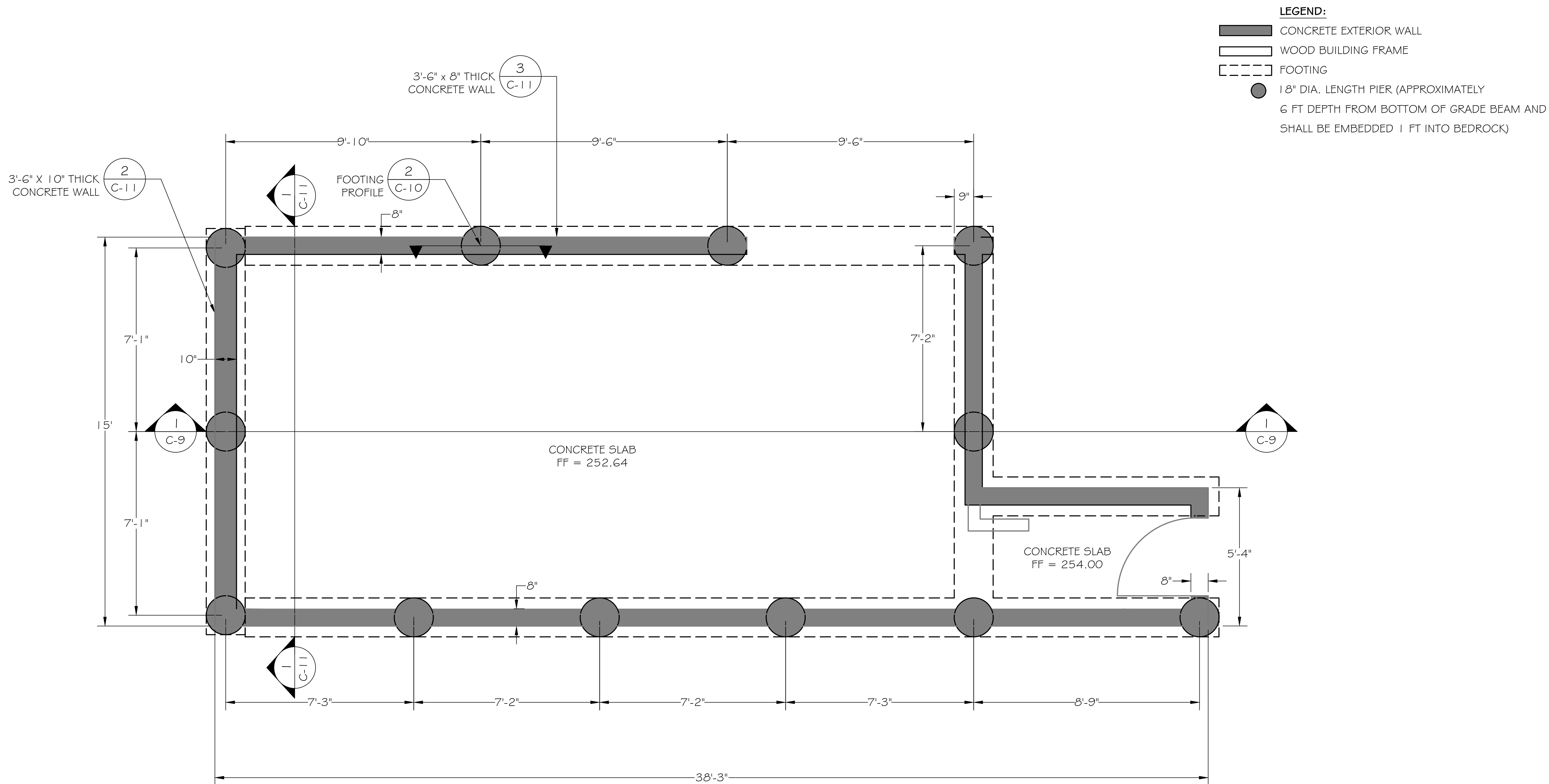


PART II - WATER TREATMENT FACILITY
GRADING PROFILE AND
SECTIONS

DATE: JUNE 13, 2025
SCALE: 1" = 5'
PROJECT No.: 2789-003

DWG No. C-7
SHEET No. 20 OF 48

\\01\10\2789\2789-003\Water Treatment Facility Foundation\AutoCAD\VT Foundation Plans.dwg - Phase 1 (Amended) 10/27/25 - C:\4 PRE 2 VTF FOUNDATION PLANS.dwg



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



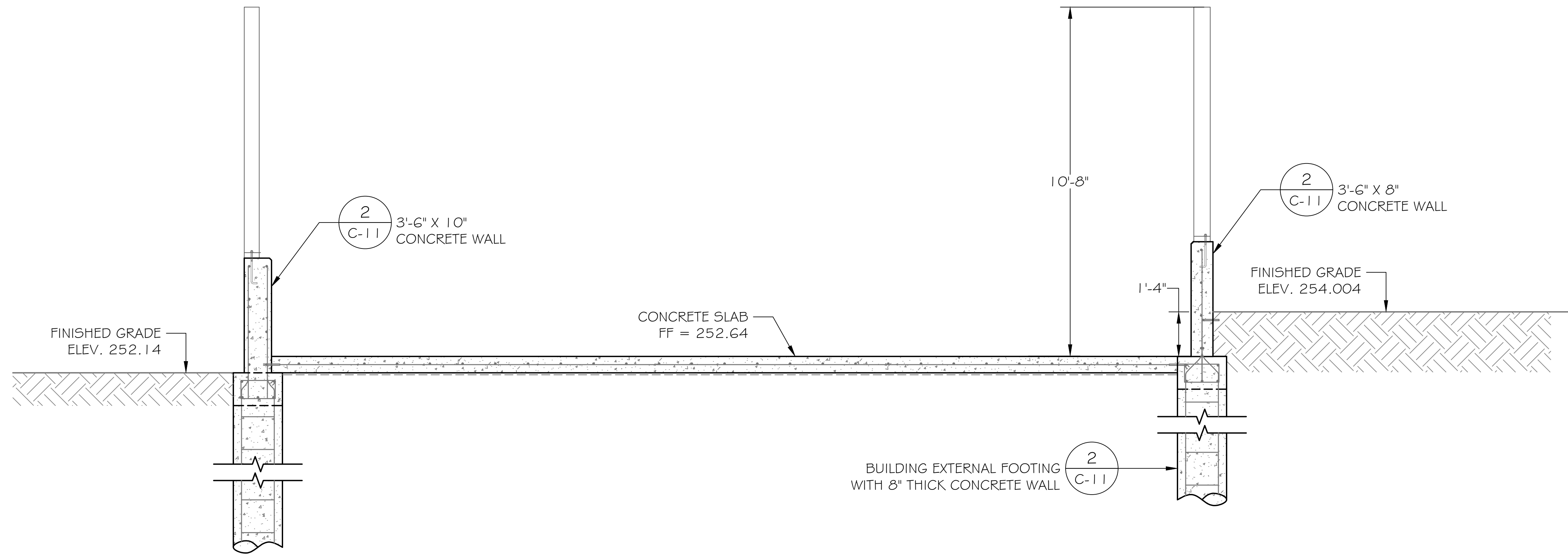
Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
WTF BUILDING FOUNDATION
PLAN - PIER, FOUNDATION,
SLAB, AND WALL

DATE: JUNE 13, 2025	DWG No. C-8 SHEET No. 21 OF 48
SCALE: 1" = 2'	
PROJECT No.: 2789-003	



1
C-8

PIER AND FOUNDATION SECTION VIEW
SCALE : 1" = 2'-0"



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
WTF BUILDING FOUNDATION
SECTION

DATE: JUNE 13, 2025
SCALE: 1" = 2'
PROJECT No.: 2789-003

DWG No. C-9
SHEET No. 22 OF 48

C:\DATA\27269\27269-003 Water Treatment Facility Foundation\AutoCAD\WTF Foundation Plans.dwg - Plase: I (Amended)12-27 C-8 - C-14 PRT 2 WTF FOUNDATION PLANS.dwg



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



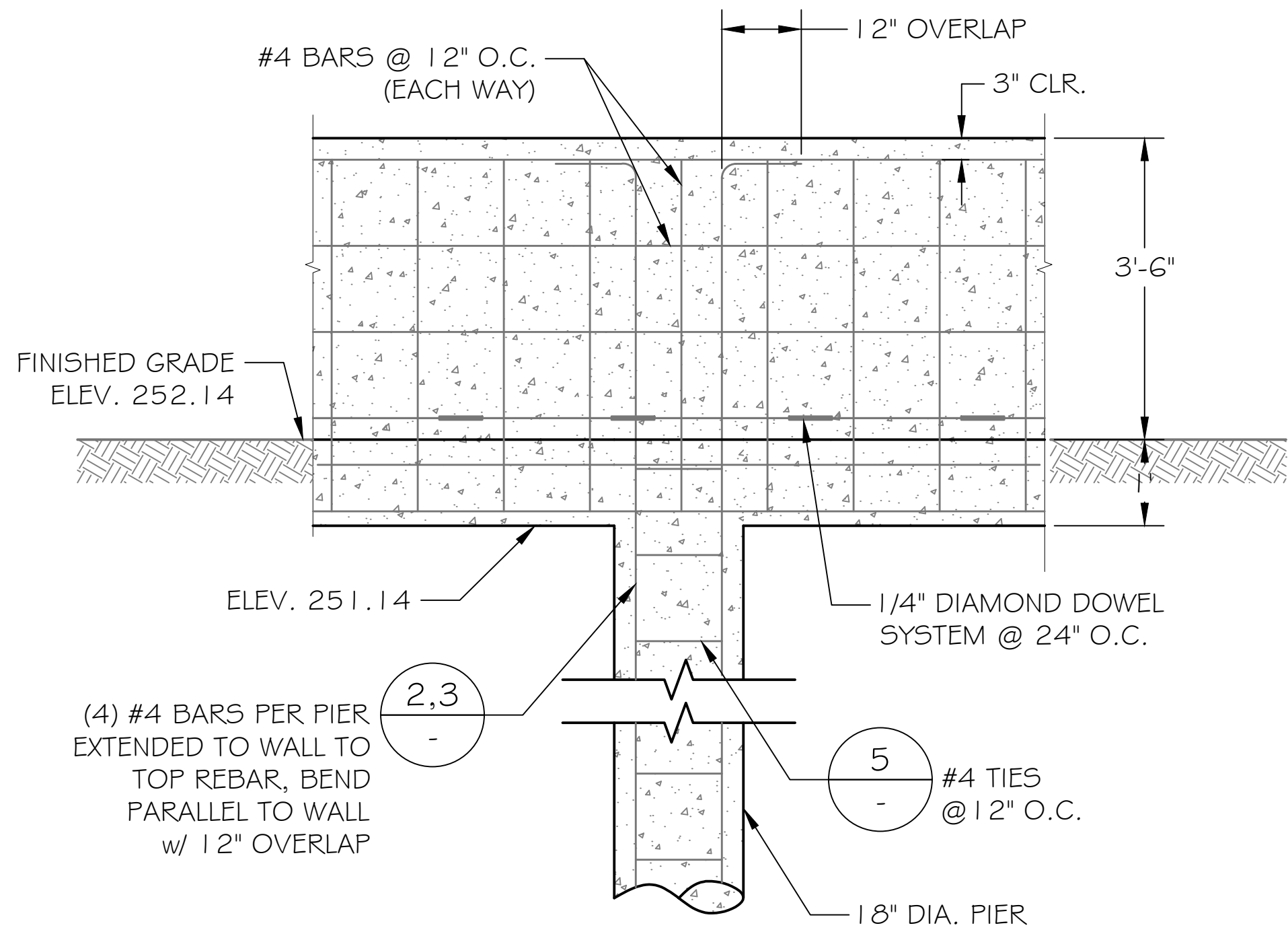
Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



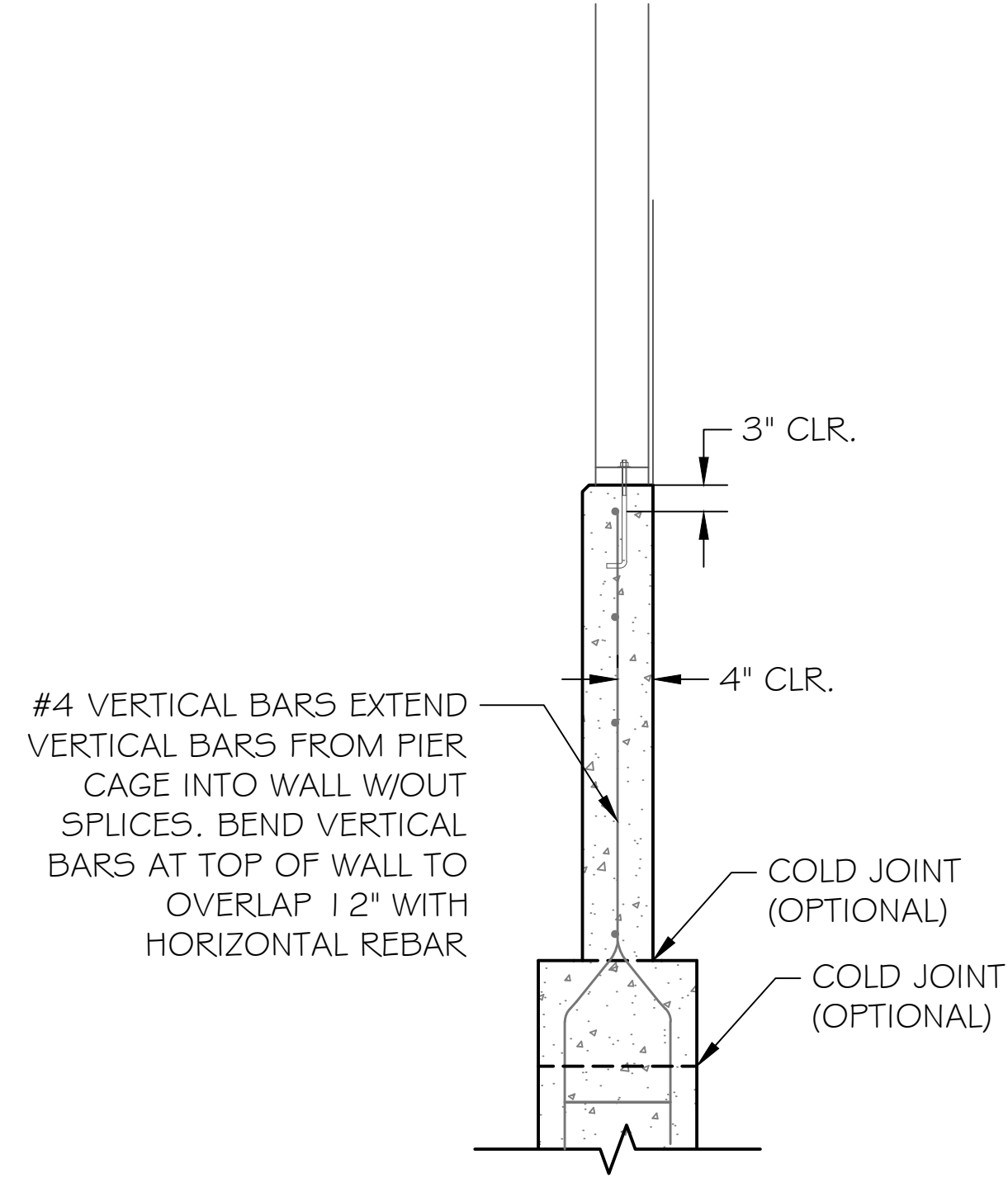
TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
WTF BUILDING FOUNDATION
DETAILS

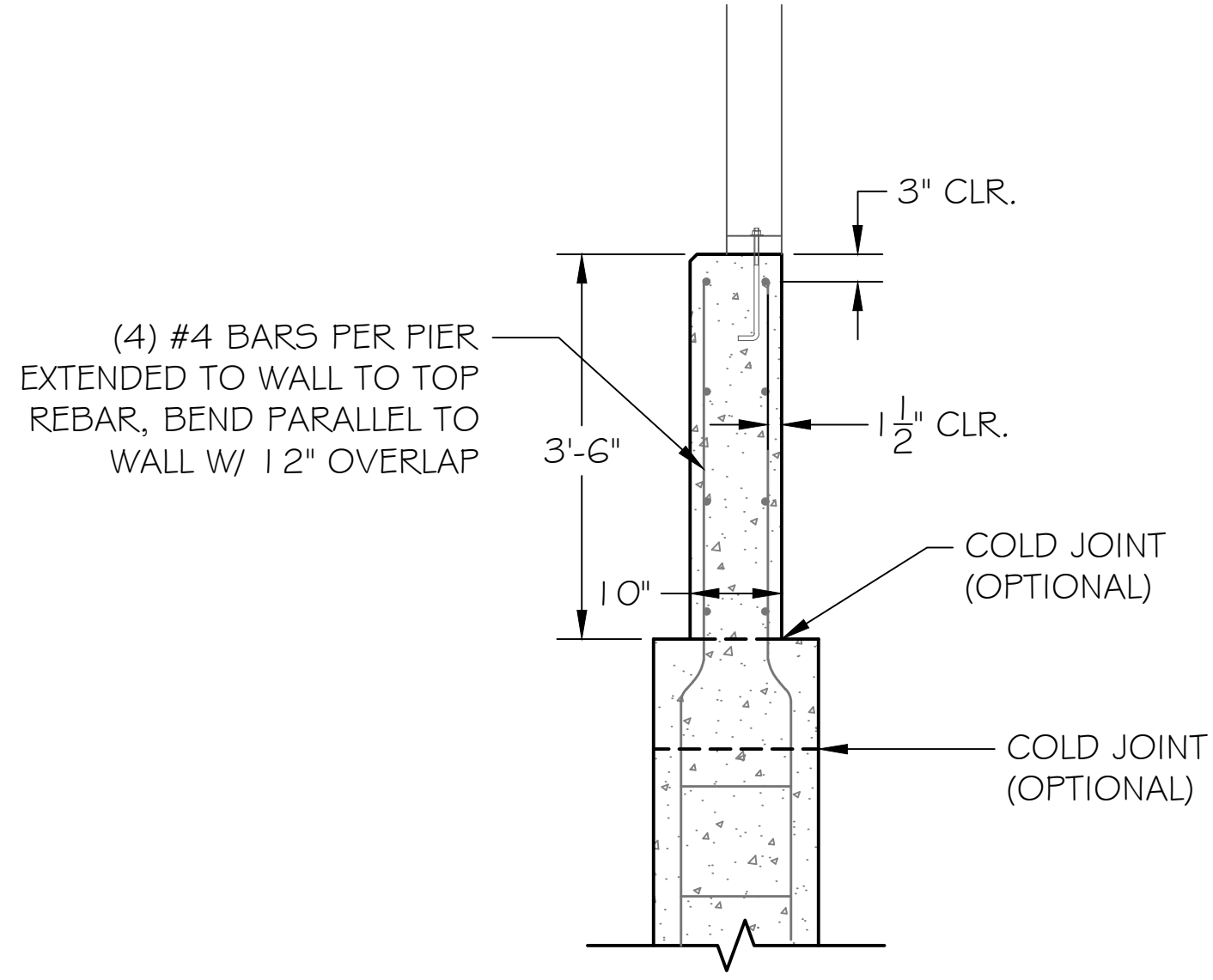
DATE: JUNE 13, 2025	DWG No. C-10 SHEET No. 23 OF 48
SCALE: AS INDICATED	
PROJECT No.: 2789-003	



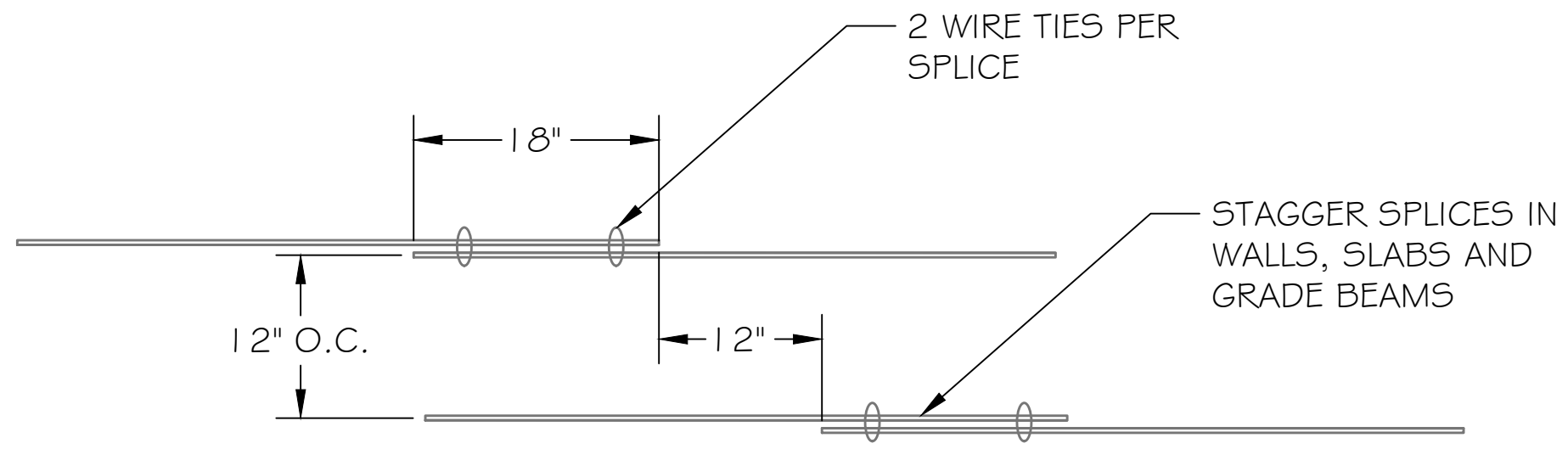
1
C-8
TYPICAL FOOTING PROFILE
SCALE : 1" = 1'-6"



2
-C-11
PIER REBAR CAGE BENDING DETAIL
SCALE : 1" = 1'-6"
SCALE (FEET)
0 1.5 3

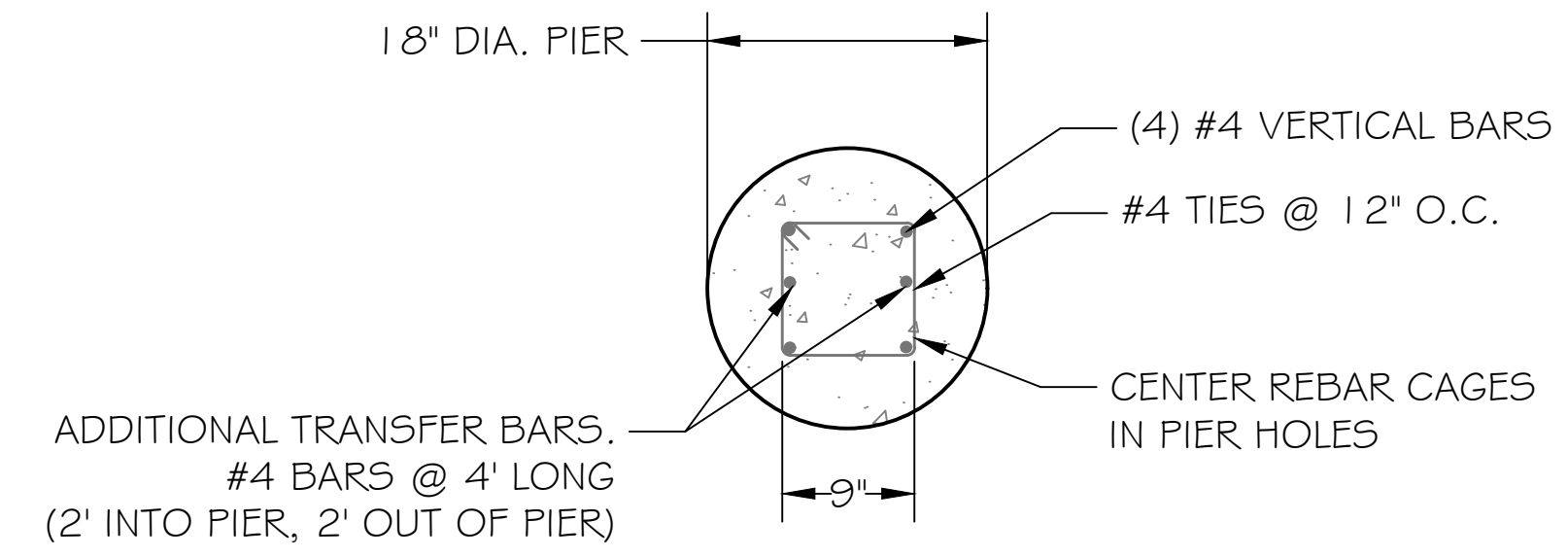


3
-C-11
PIER REBAR CAGE BENDING DETAIL
SCALE : 1" = 1'-6"
SCALE (FEET)
0 1.5 3

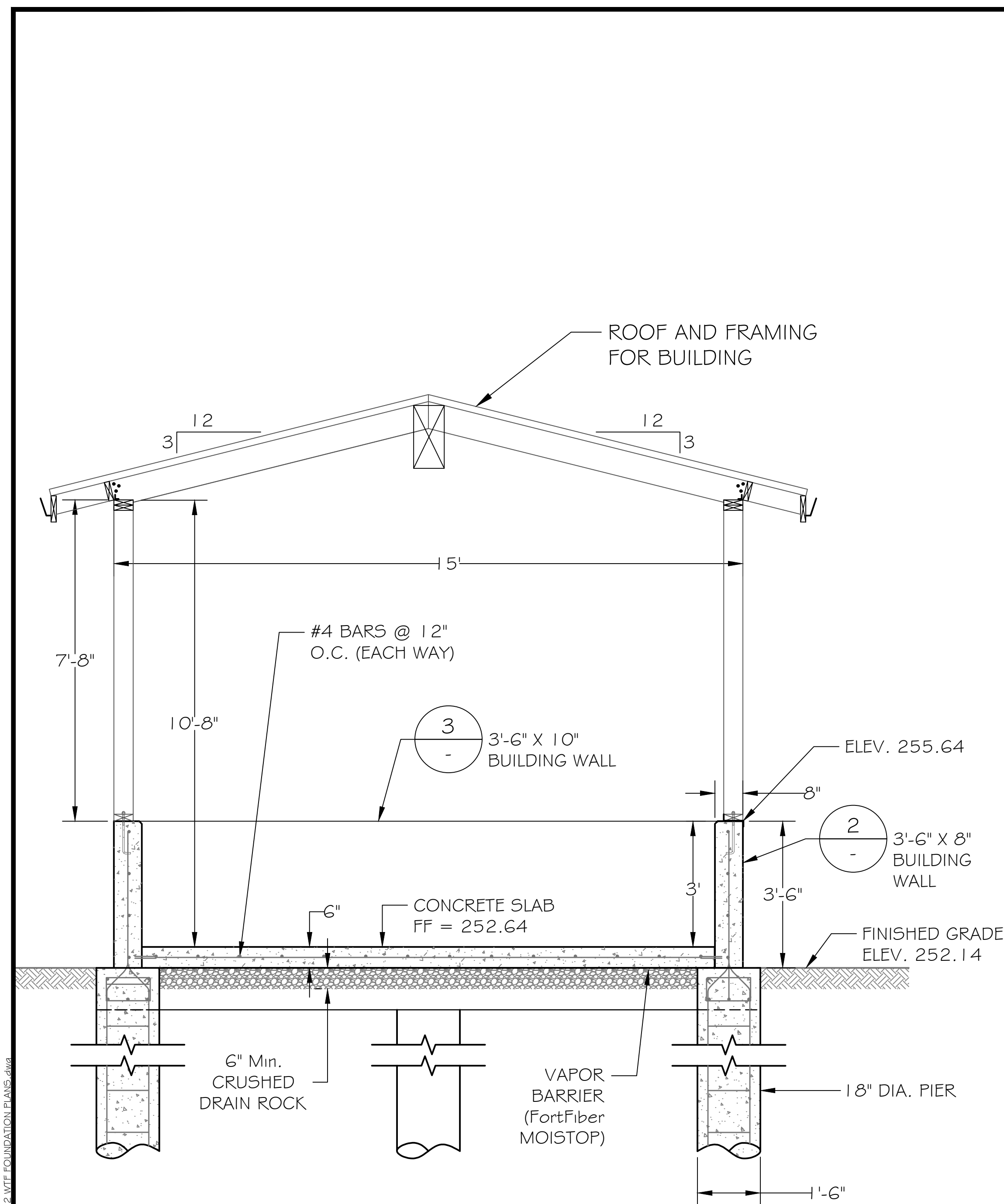


4
-
REBAR SPLICE DETAIL
SCALE : 1" = 1'-0"

SCALE (FEET)
0 1 2

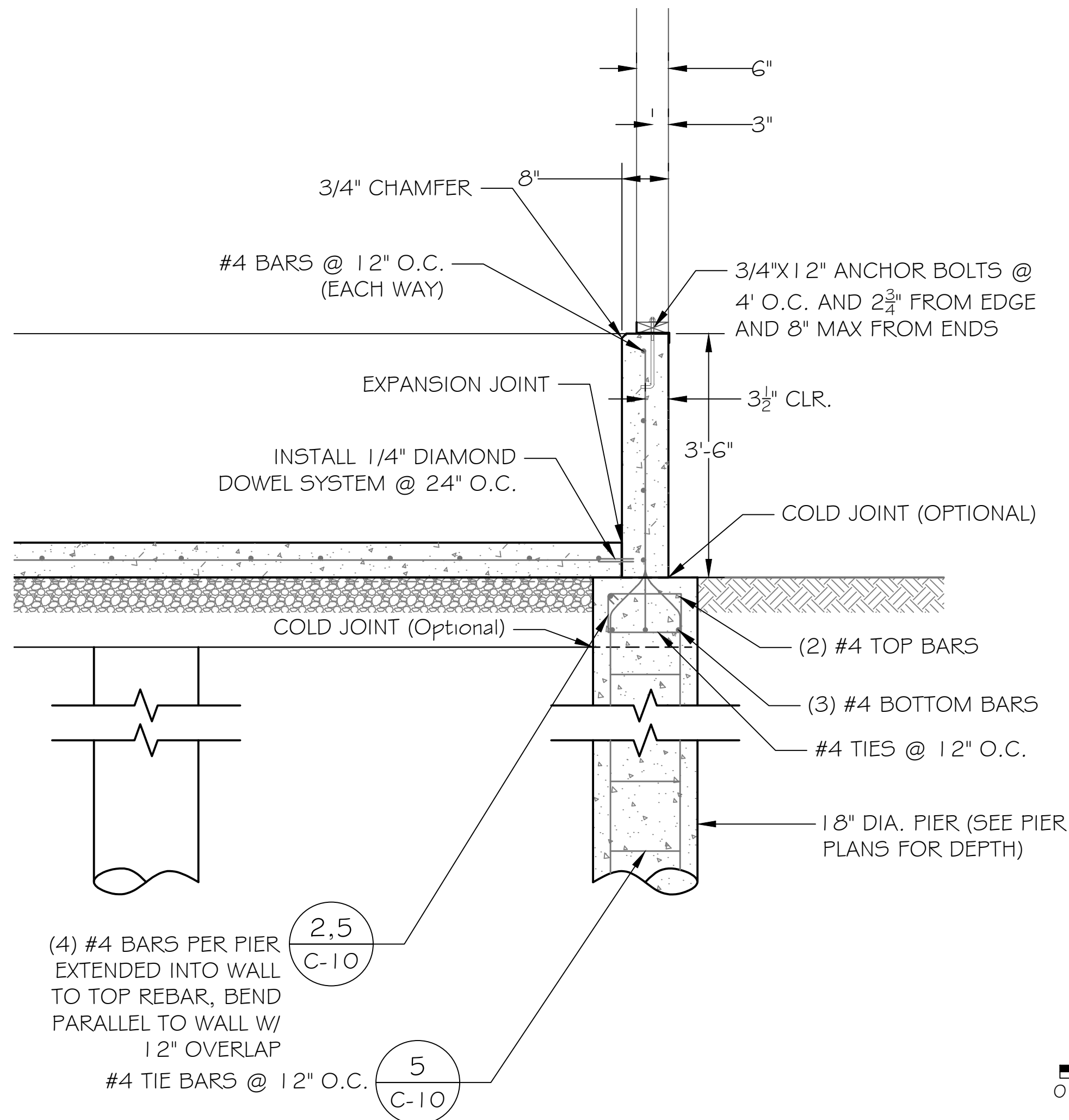


5
-C-11
PIER REBAR CAGE DETAIL
SCALE : 1" = 1'-0"

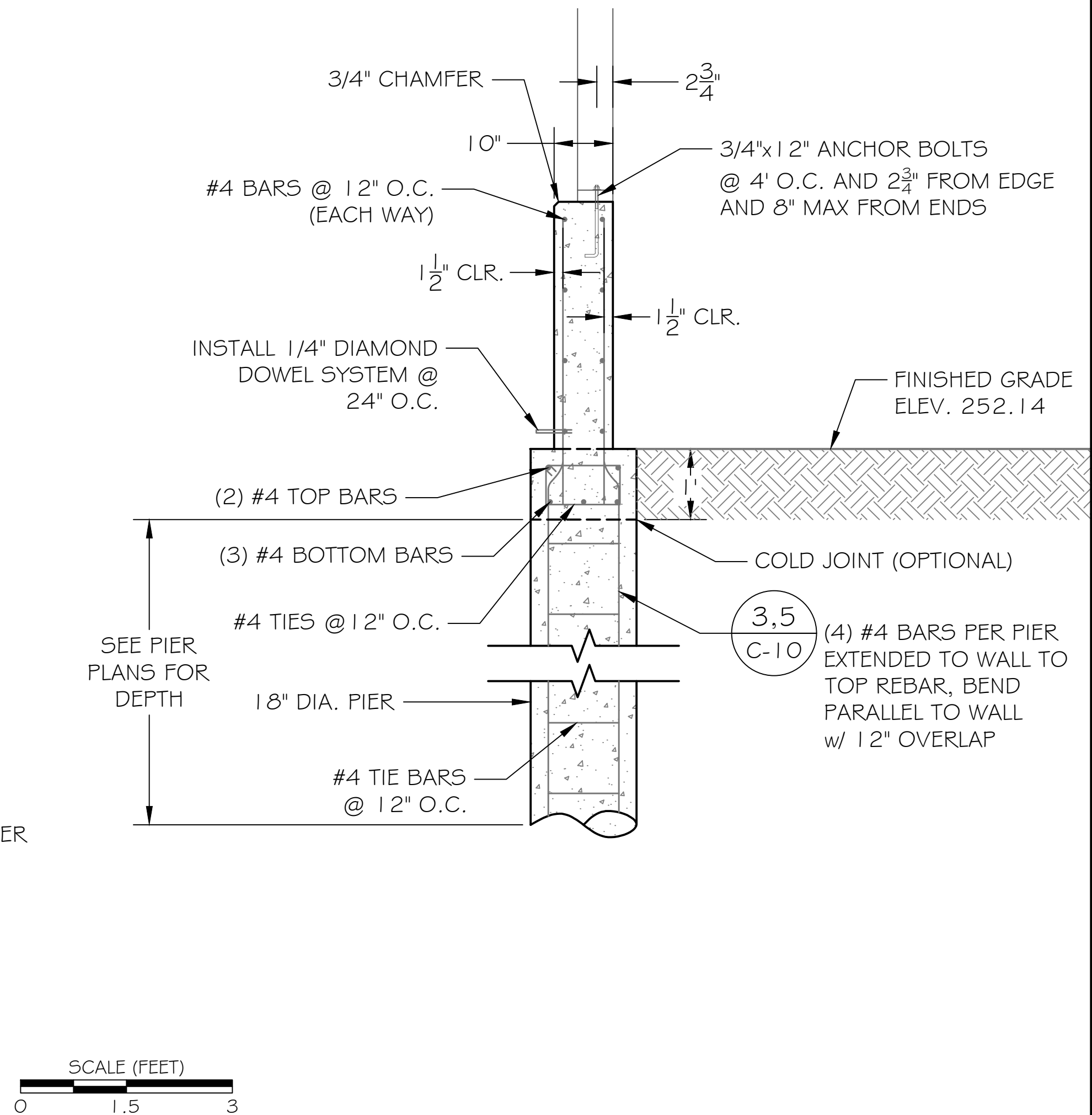


1
C-9
FOOTING DETAIL CROSS-SECTION
SCALE : 1" = 2'-0"

SCALE (FEET)
0 2 4



2
C-8/C-9
3'-6" X 8" THICK BUILDING WALL AND PIER FOOTING DETAIL
SCALE : 1" = 1'-6"



3
C-8/C-9
3'-6" X 10" THICK BUILDING WALL AND PIER FOOTING DETAIL
SCALE : 1" = 1'-6"



DESIGNED:	A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. / T.Z. / R.F.					
CHECKED:	A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



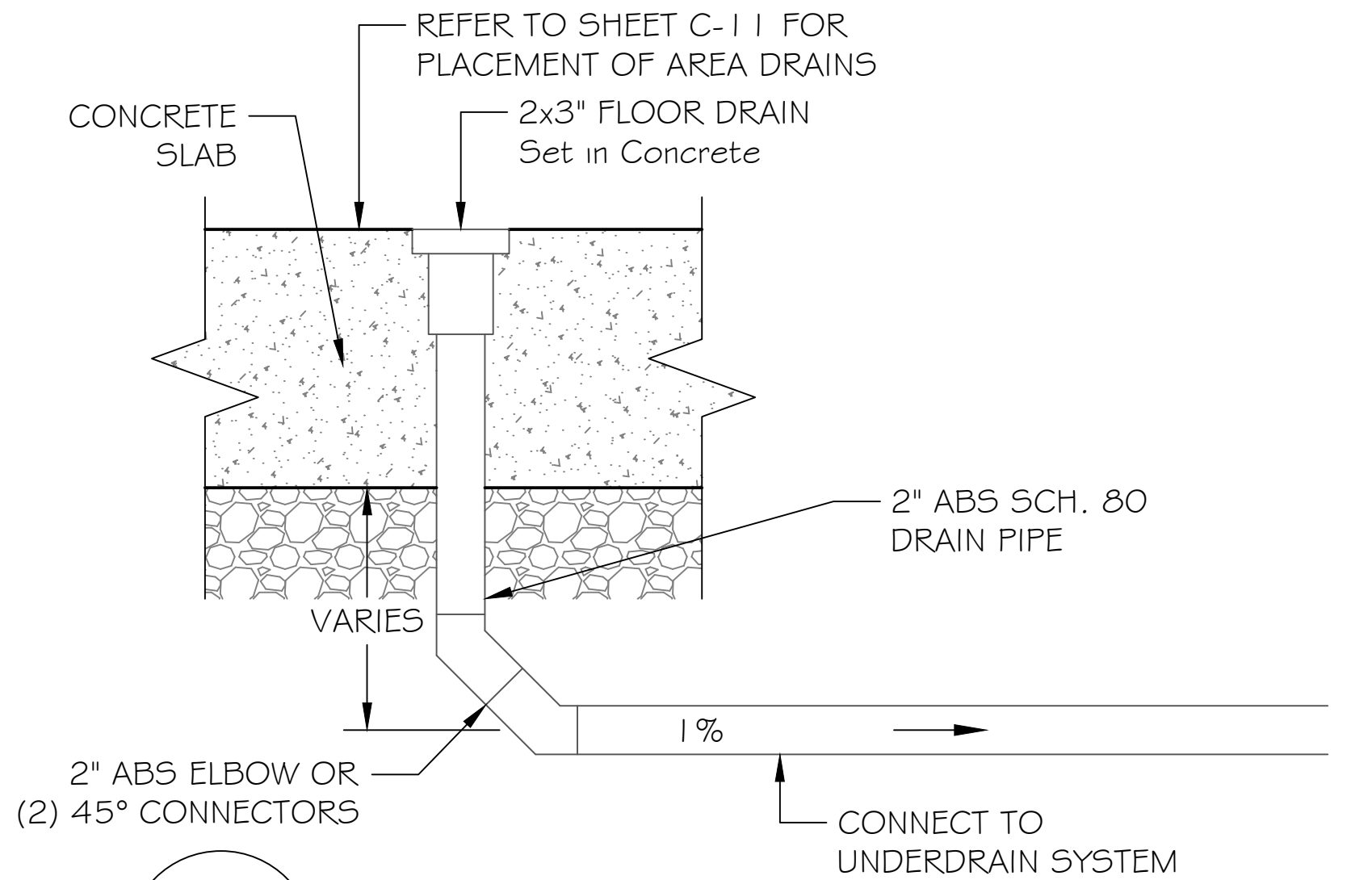
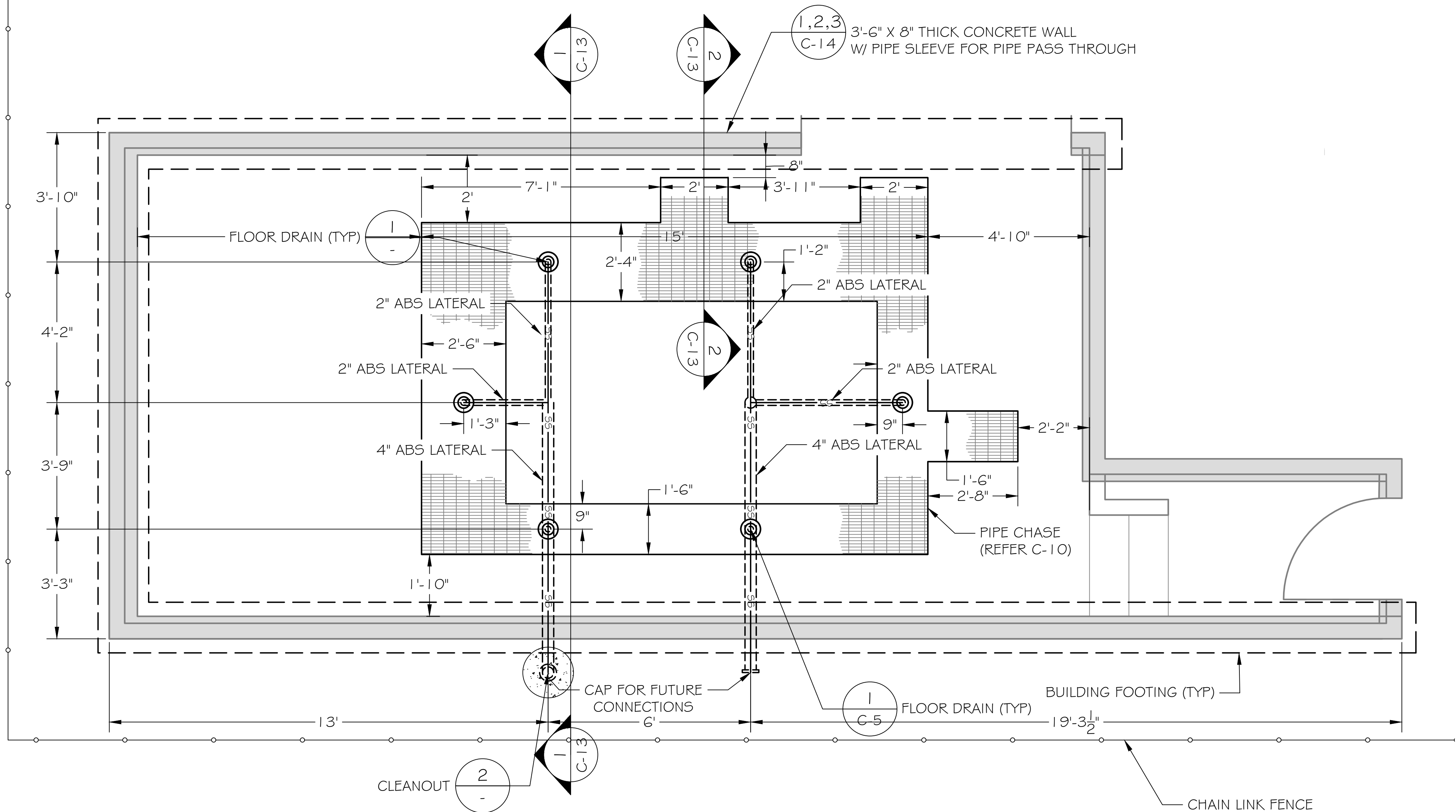
TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
WTF BUILDING FOUNDATION
DETAILS CONTINUED

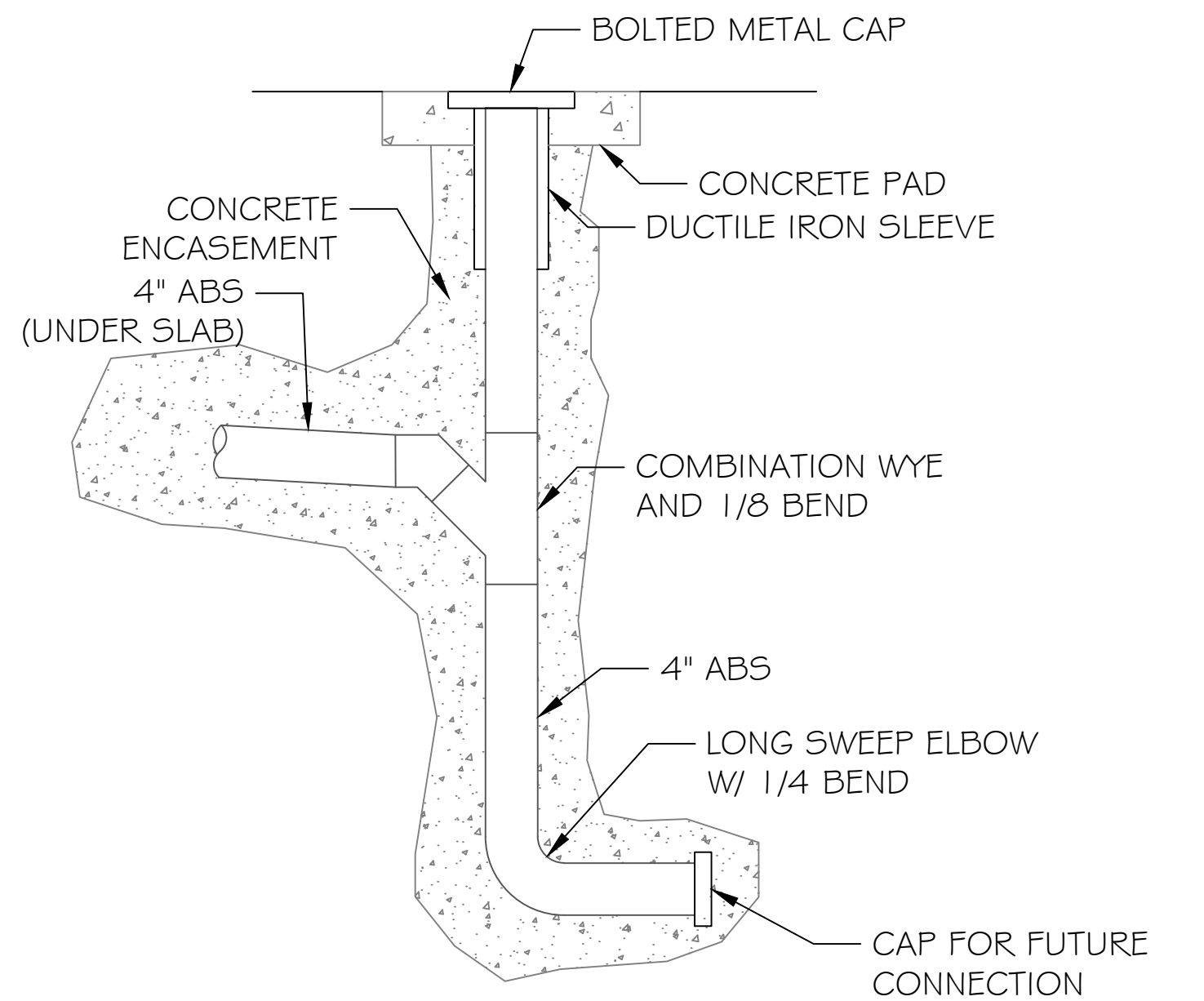
DATE:	JUNE 13, 2025
SCALE:	AS INDICATED
PROJECT No.:	2789-003

DWG No.	C-II
SHEET No.	24 OF 48

\\01\10\2789\2789-003\Water Treatment Facility\Foundation\AutoCAD\VT Foundation Plans.dwg - Phase I (Amended) 10/27/25 C-8 - C-14 PRE 2 VTF FOUNDATION PLANS.dwg



1
-
FLOOR DRAIN SECTION DETAIL
NOT TO SCALE



2
-
CLEANOUT DETAIL
NOT TO SCALE



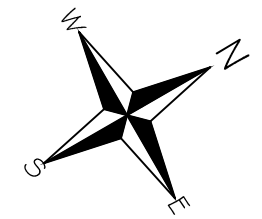
DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



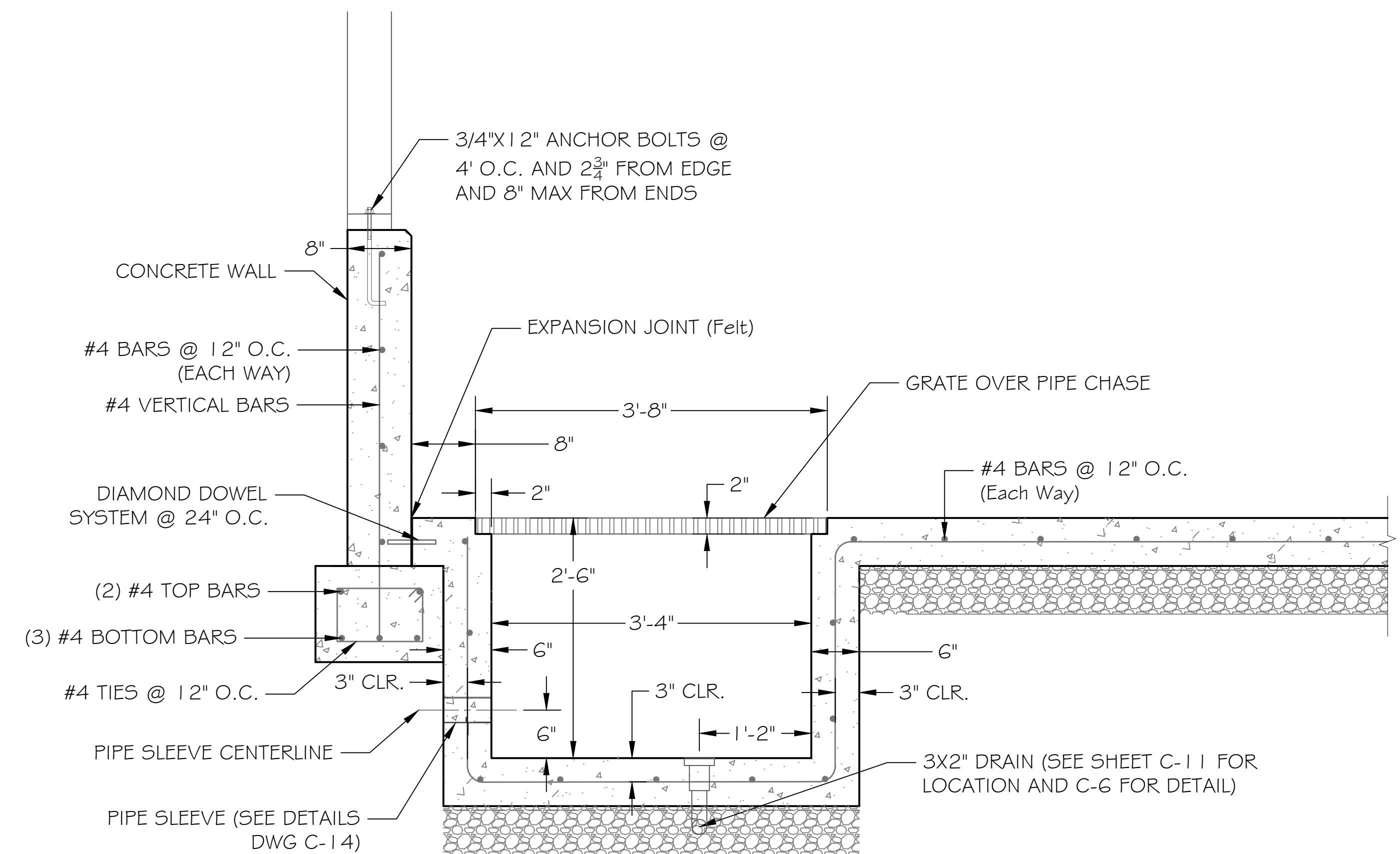
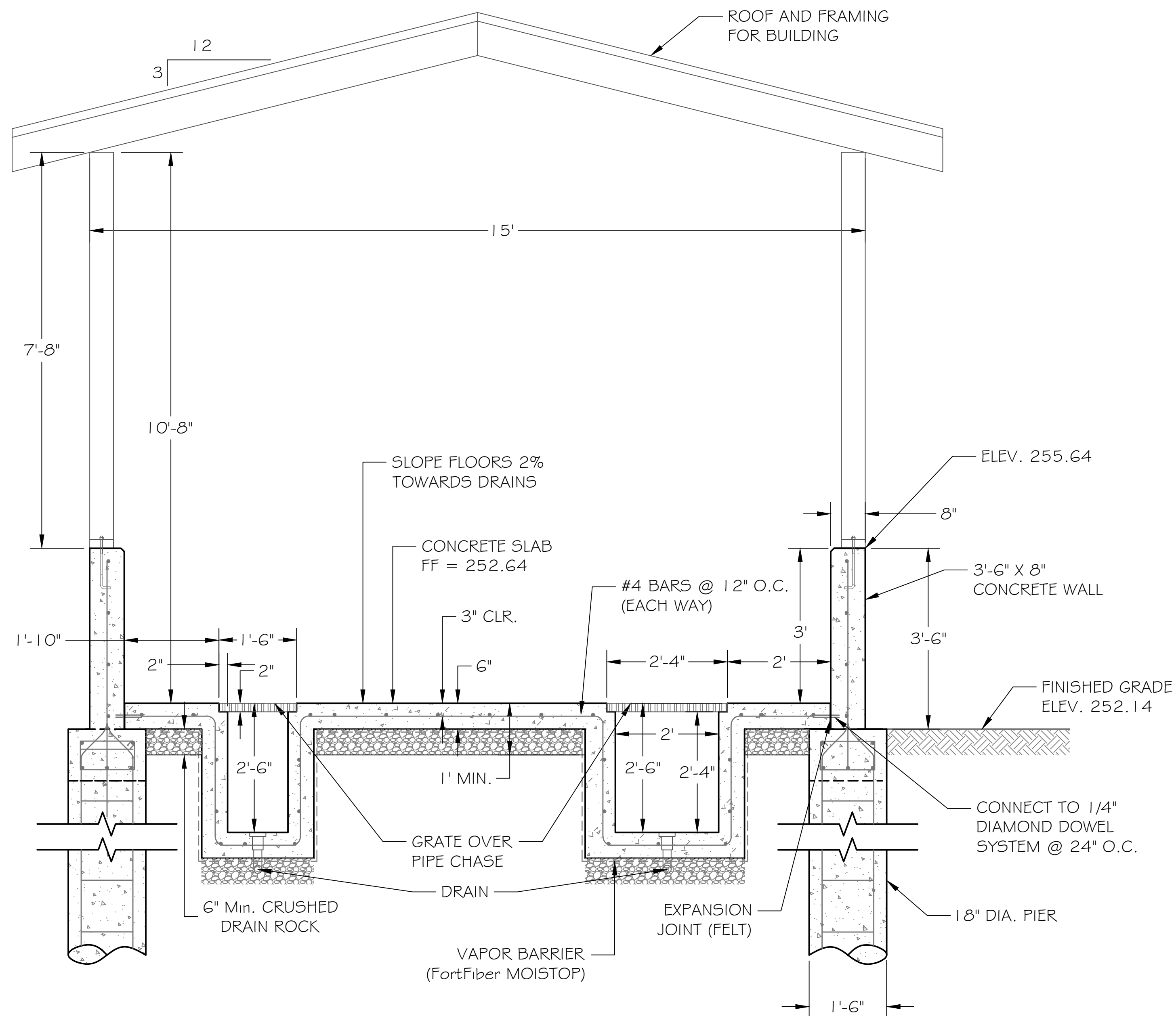
TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I



PART II - WATER TREATMENT FACILITY
WTF BUILDING FOUNDATION -
FLOOR DRAIN AND PIPE CHASE
PLAN

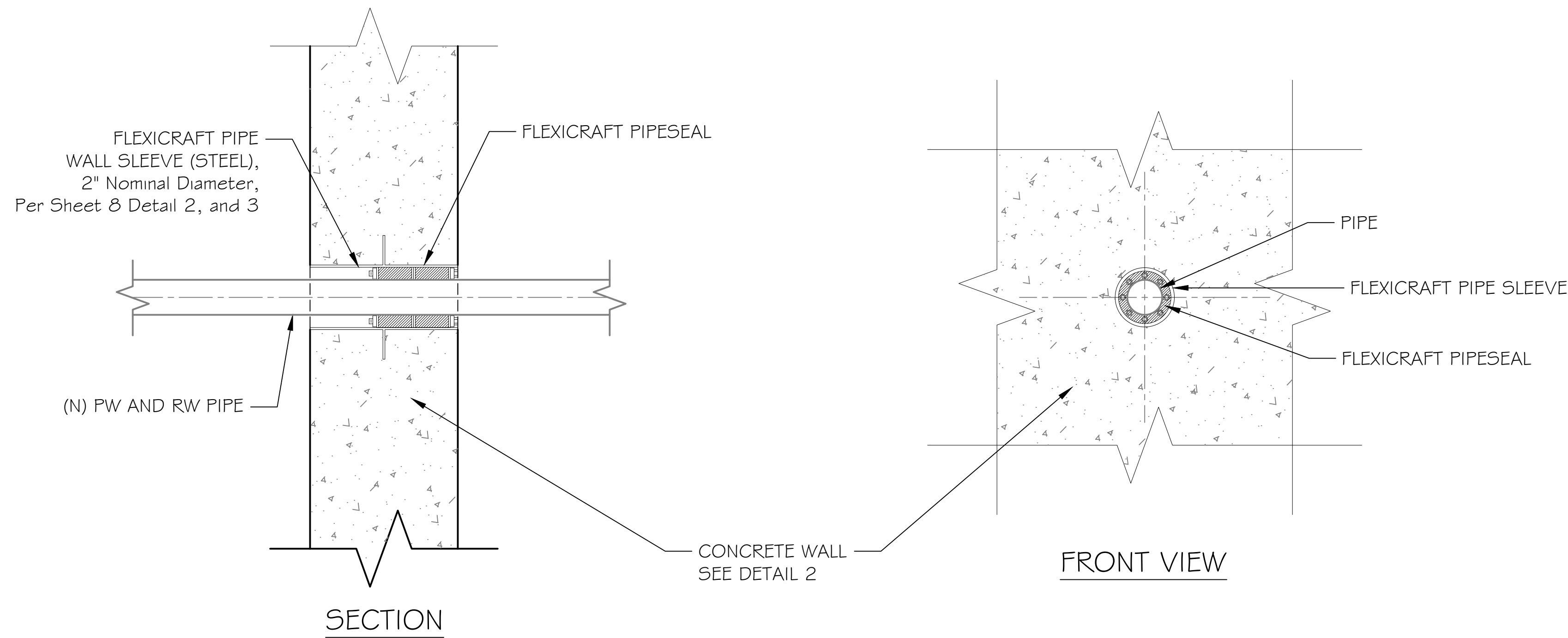
DATE: JUNE 13, 2025
SCALE: 1" = 2'
PROJECT No.: 2789-003

DWG No.
C-12
SHEET No.
25 OF 48

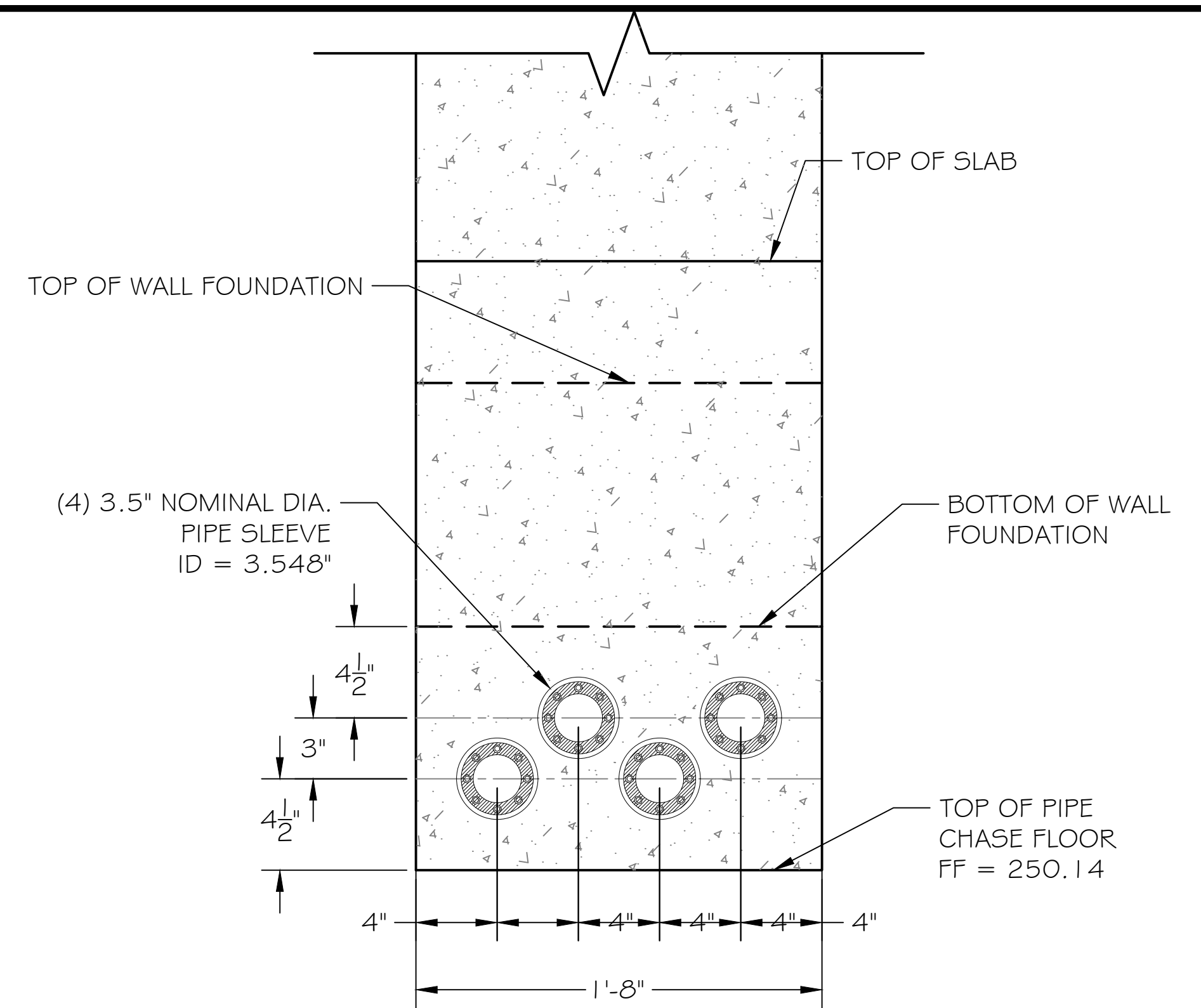


DWG No.
C-13

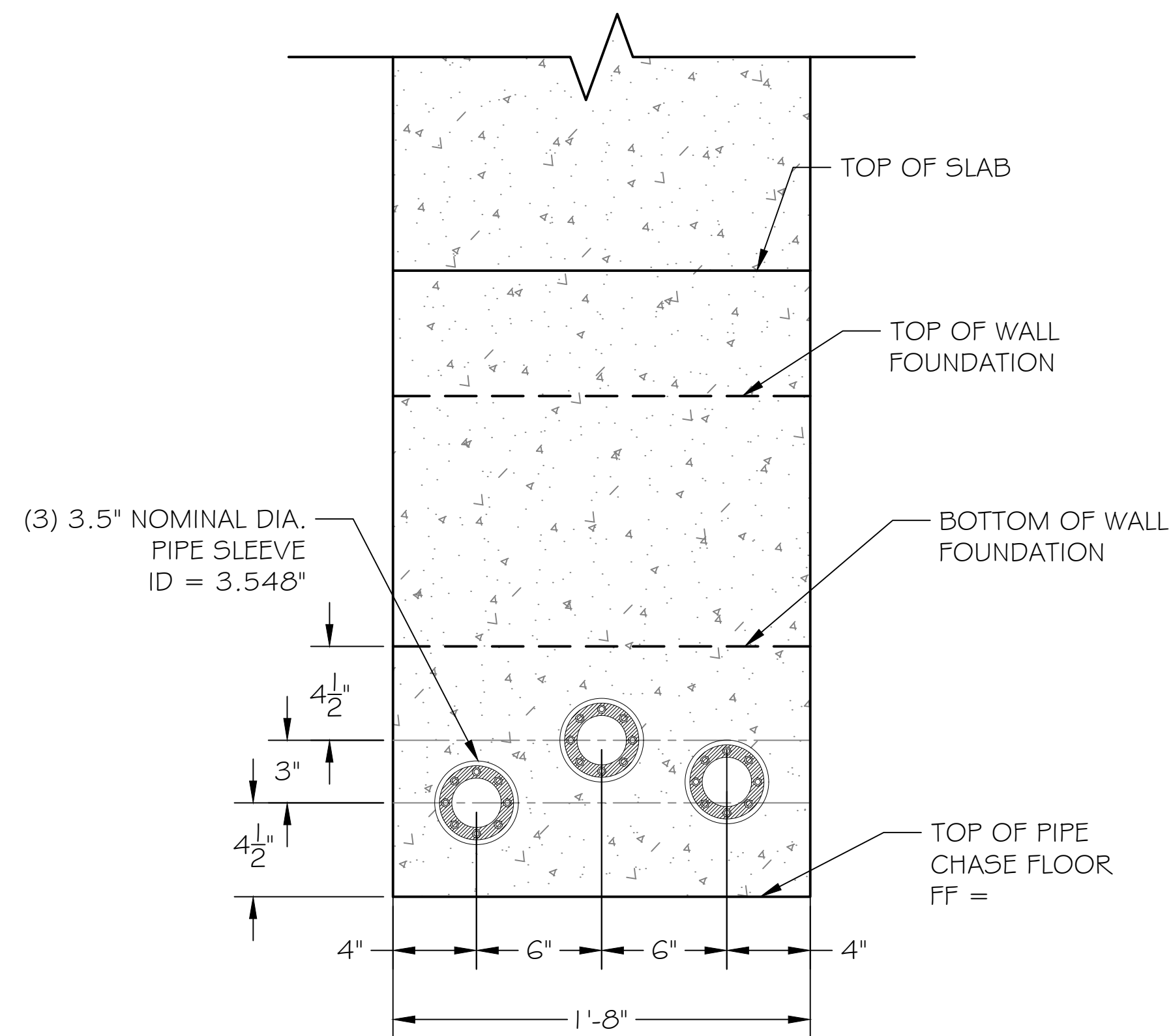
SHEET No.
26 OF 48



1
C-13
PIPE SLEEVE EMBEDDED IN WALL DETAILS
NOT TO SCALE



2
C-13
DEEPENED PIPE CHASE PIPE SLEEVE LOCATIONS
NOT TO SCALE



3
C-13
DEEPENED PIPE CHASE PIPE SLEEVE LOCATIONS
NOT TO SCALE



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

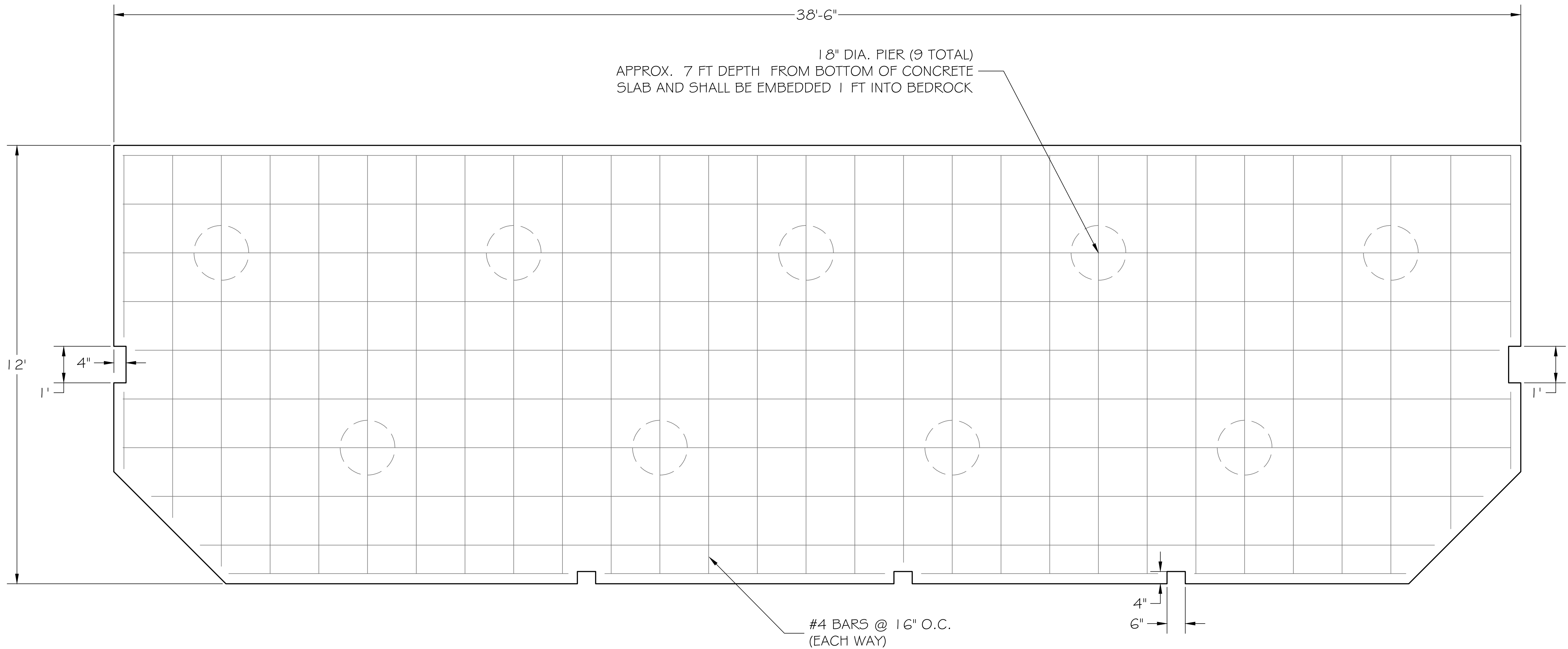


TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
**BUILDING FOUNDATION -
FLOOR DRAIN AND PIPE
CHASE DETAILS**

DATE: JUNE 13, 2025	DWG No. C-14 SHEET No. 27 OF 48
SCALE: AS INDICATED	
PROJECT No.: 2789-003	

C:\DATA\2789-003-Water Treatment Facility\Project\AutoCAD\DWG Project - Phase I (Amended)\28-03 C-I5-WTF-TANK FARM- FOUNDATION PLANS.dwg



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					

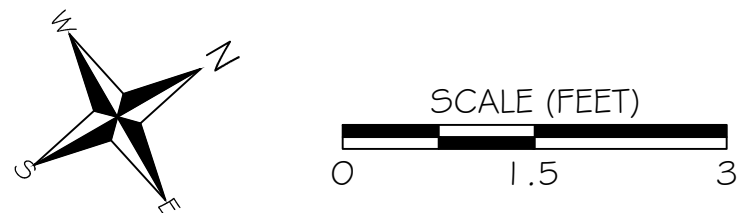


Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



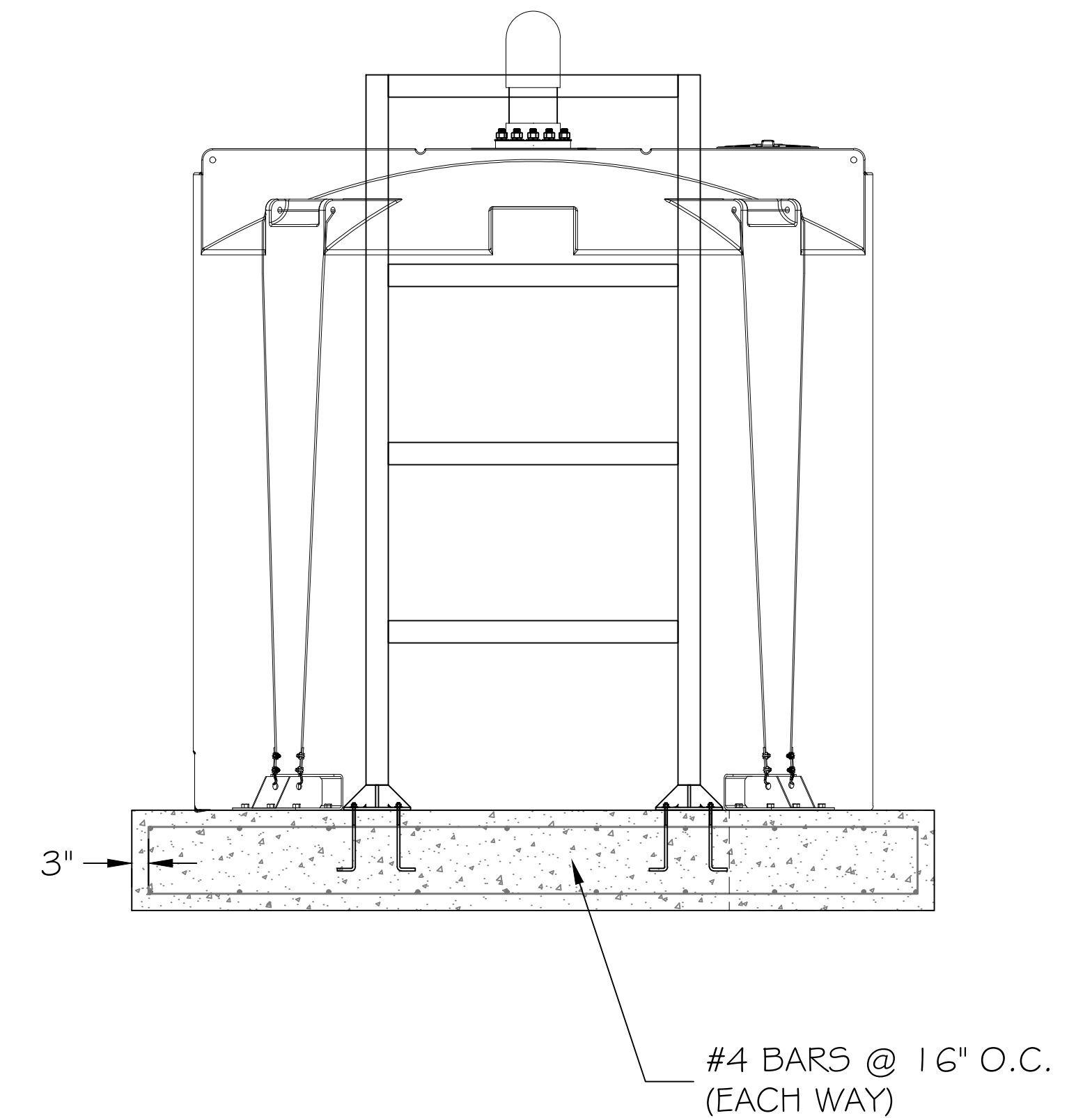
TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
**WTF TANK FARM
CONCRETE SLAB AND
PIER PLAN**



DATE: JUNE 13, 2025
SCALE: 1" = 18"
PROJECT No.: 2789-003

DWG No.
C-I5
SHEET No.
28 OF 48

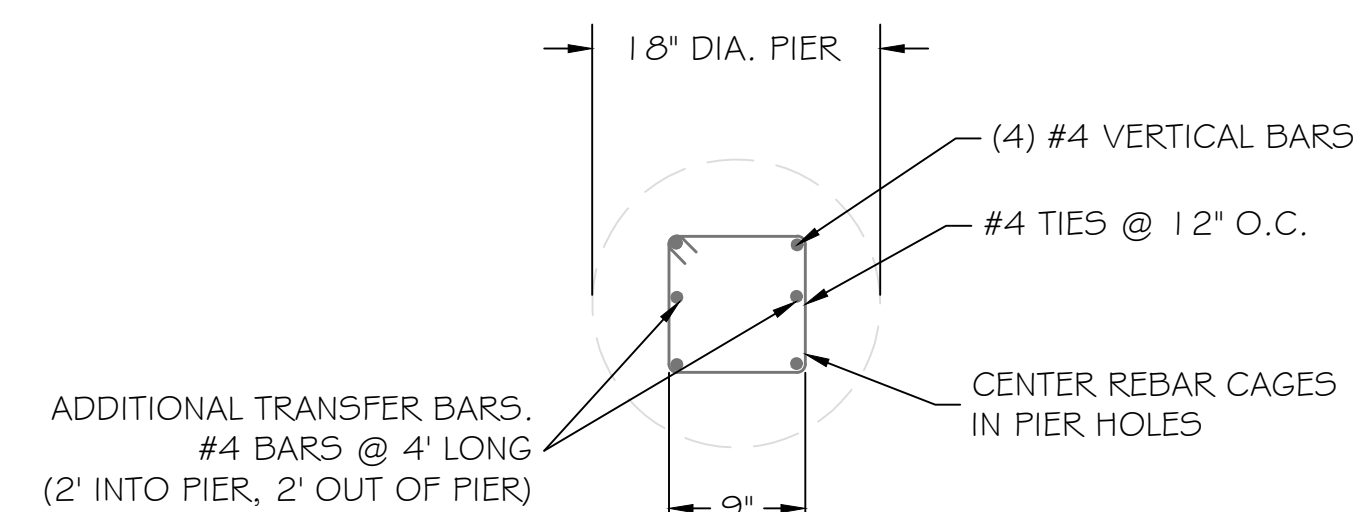


SCALE (FEET)

A horizontal scale bar with a black background and white markings. The bar is labeled "SCALE (FEET)" above it. Below the bar, there are two white tick marks labeled "0" and "2". The bar is divided into two equal segments by a white tick mark at the midpoint.

SCALE (FEET)

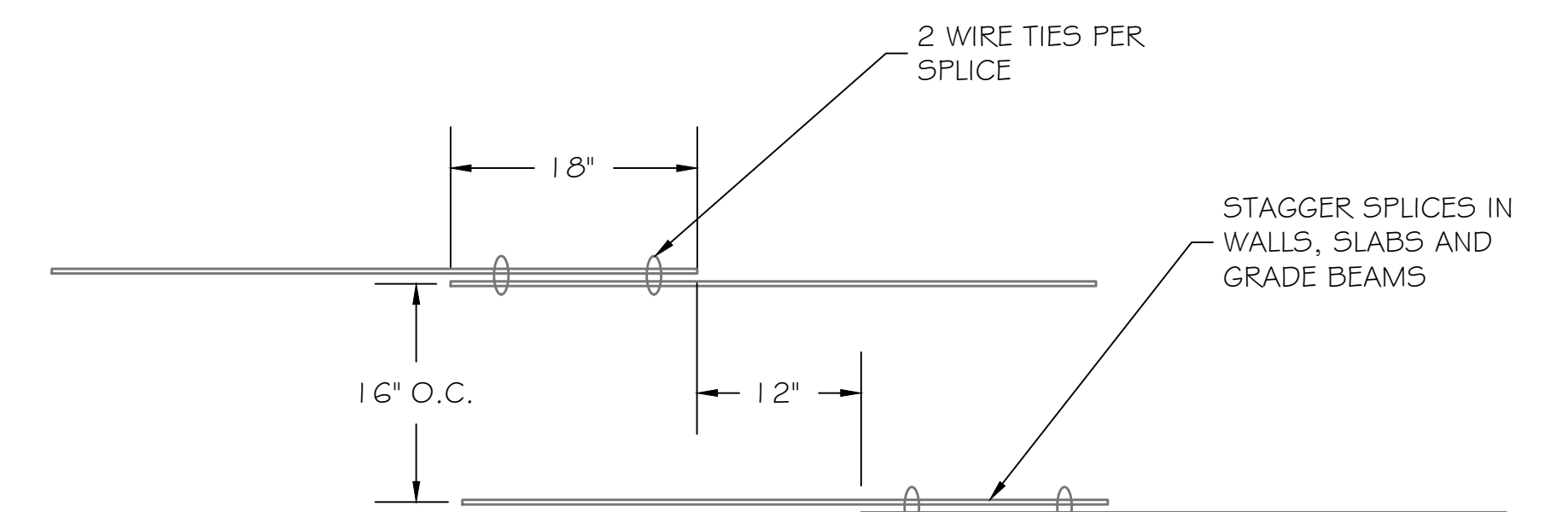

0 2 4



SCALE (FEET)

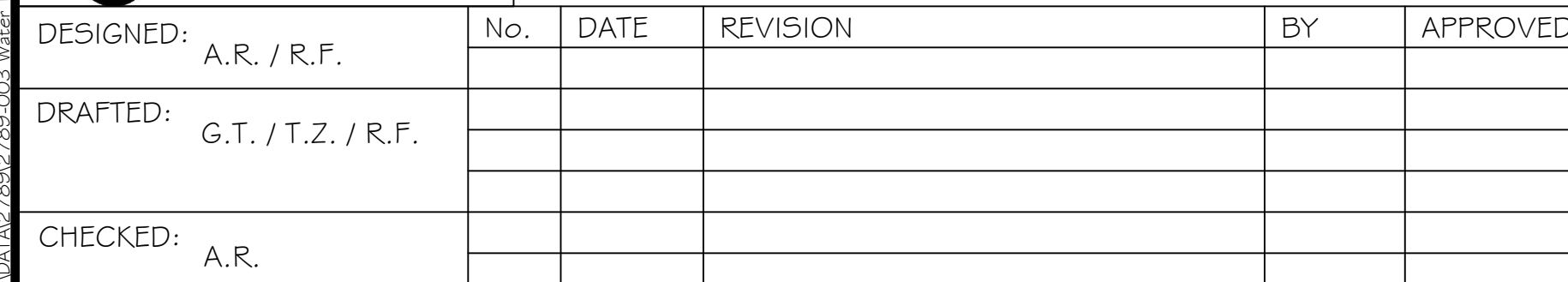
0 2 4

SCALE (FEET)



SCALE (FEET)

0 1 2



PART II - WATER TREATMENT FACILITY

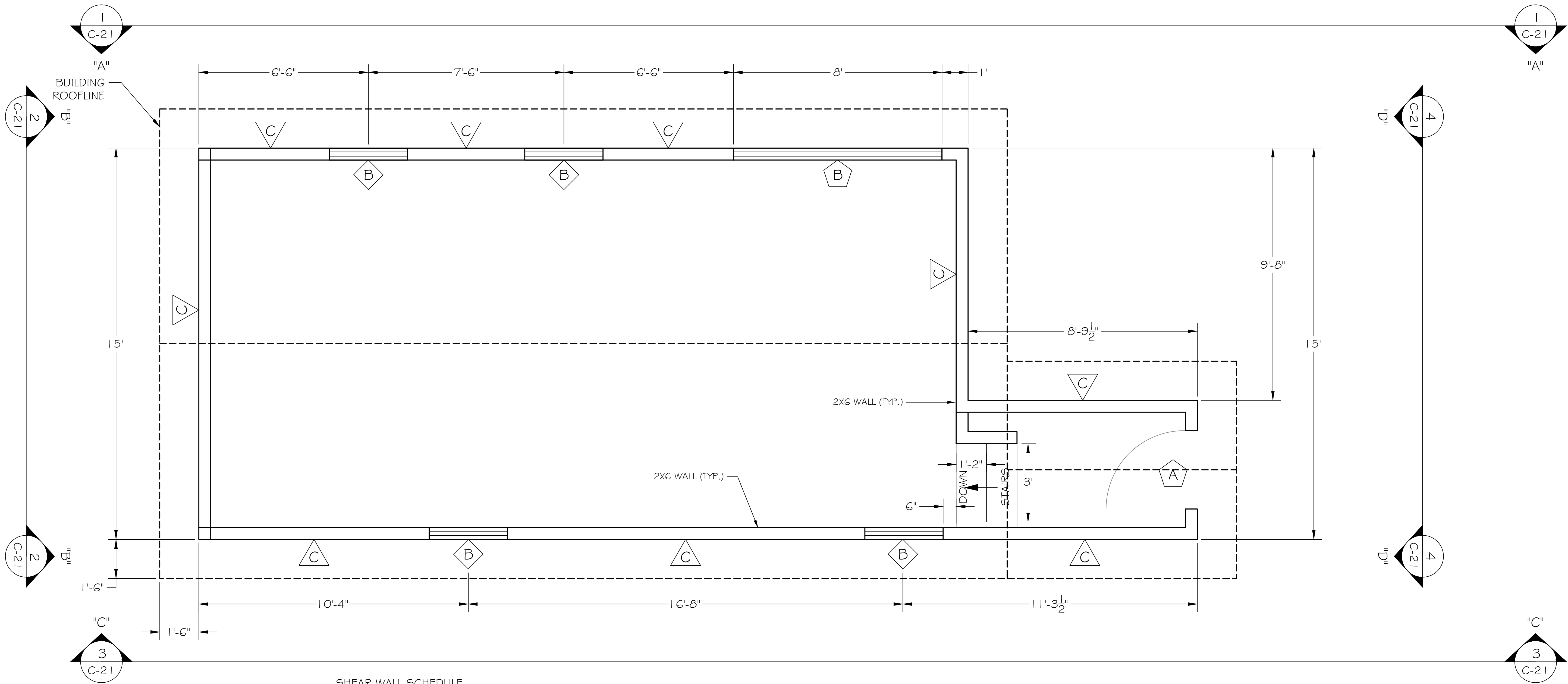
WTF TANK FARM

CONCRETE SLAB DETAILS

DATE: JUNE 13, 2025
SCALE: AS INDICATED
PROJECT No.: 2789-003

DWG No.
C-16
SHEET No.
29 OF 48

\\01\10\27269\27269-003\Water Treatment Facility\Project\AutoCAD\WTF Project - Phase I (Amended)\30-35 G-17 - C-22 - WTF FLOOR & ROOF PLANS.dwg



SHEAR WALL SCHEDULE

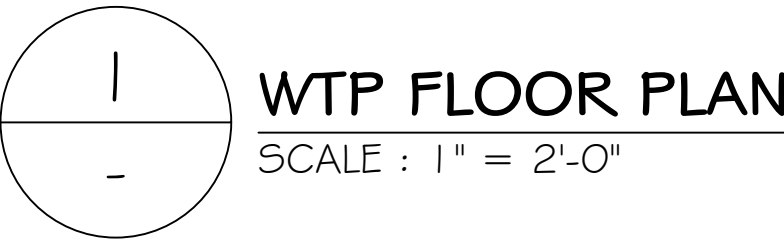
- A** 1 5/32" PLYWOOD W/ 1 0d @ 4" O.C. EDGES, 1 2" O.C. IN FIELD. ALL EDGES BLOCKED W/ 3"X6" @ PLYWOOD SEAMS
- B** 1 5/32" PLYWOOD W/ 1 0d @ 6" O.C. EDGES, 1 2" O.C. IN FIELD. ALL EDGES BLOCKED W/ 3"X6" @ PLYWOOD SEAMS
- C** 5/8" BREKONRIDGE PRE-PRIMED RESAWN PLYWOOD W/ 1 0d @ 6" O.C. EDGES, 1 2" O.C. IN FIELD. ALL EDGES BLOCKED W/ 3"X6" @ PLYWOOD SEAMS

WINDOW SCHEDULE

- A** 2436 WINDOW - 24" WIDTH BY 36" TALL
- B** 3648 WINDOW - 36" WIDTH BY 48" TALL

DOOR SCHEDULE

- A** 36" WIDTH STANDARD DOOR
- B** 9'-4" TALL BY 8' WIDE ROLL UP DOOR



WTP FLOOR PLAN
SCALE : 1" = 2'-0"



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



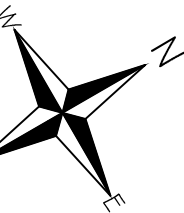
Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY

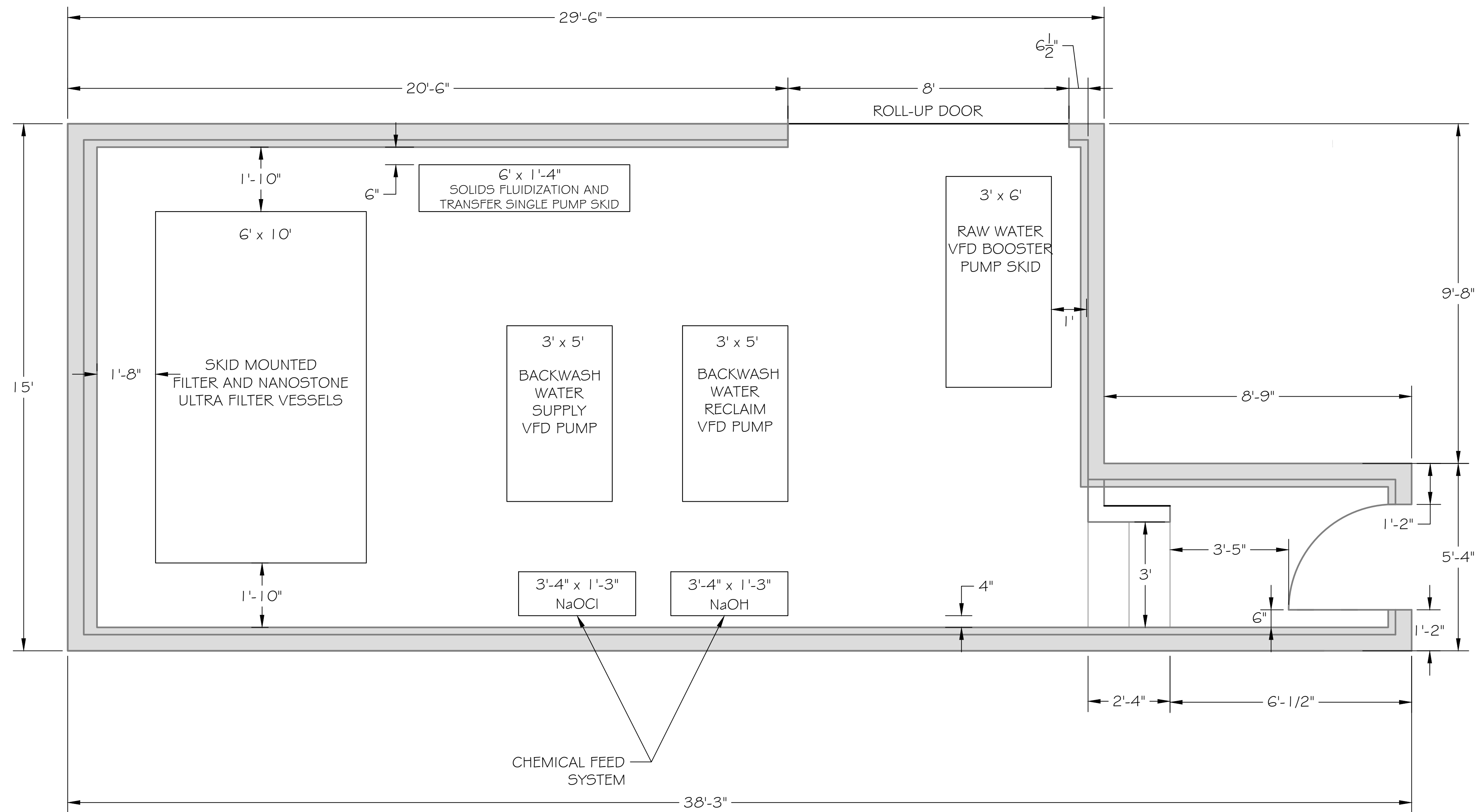
WTF BUILDING FLOOR PLAN
WITH SHEAR WALL/ WINDOW
/DOOR SCHEDULE



DATE: JUNE 13, 2025	DWG No. C-17
SCALE: 1" = 2'	SHEET No. 30 OF 48
PROJECT No.: 2789-003	

NOTE:

WATER TREATMENT EQUIPMENT LAYOUT AND DETAILS ARE SUBJECT TO CHANGE PENDING THE FINALIZED EQUIPMENT DESIGN SUBMITTED BY THE TREATMENT EQUIPMENT VENDOR.



1 WTF BUILDING EQUIPMENT LAYOUT
SCALE : 1" = 2'-0"



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



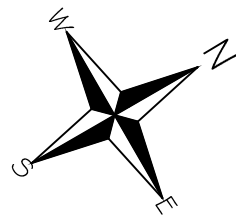
Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
WTF BUILDING EQUIPMENT
LAYOUT

ABBREVIATIONS:	
NaOCl	SODIUM HYPOCHLORITE
NaOH	SODIUM HYDROXIDE

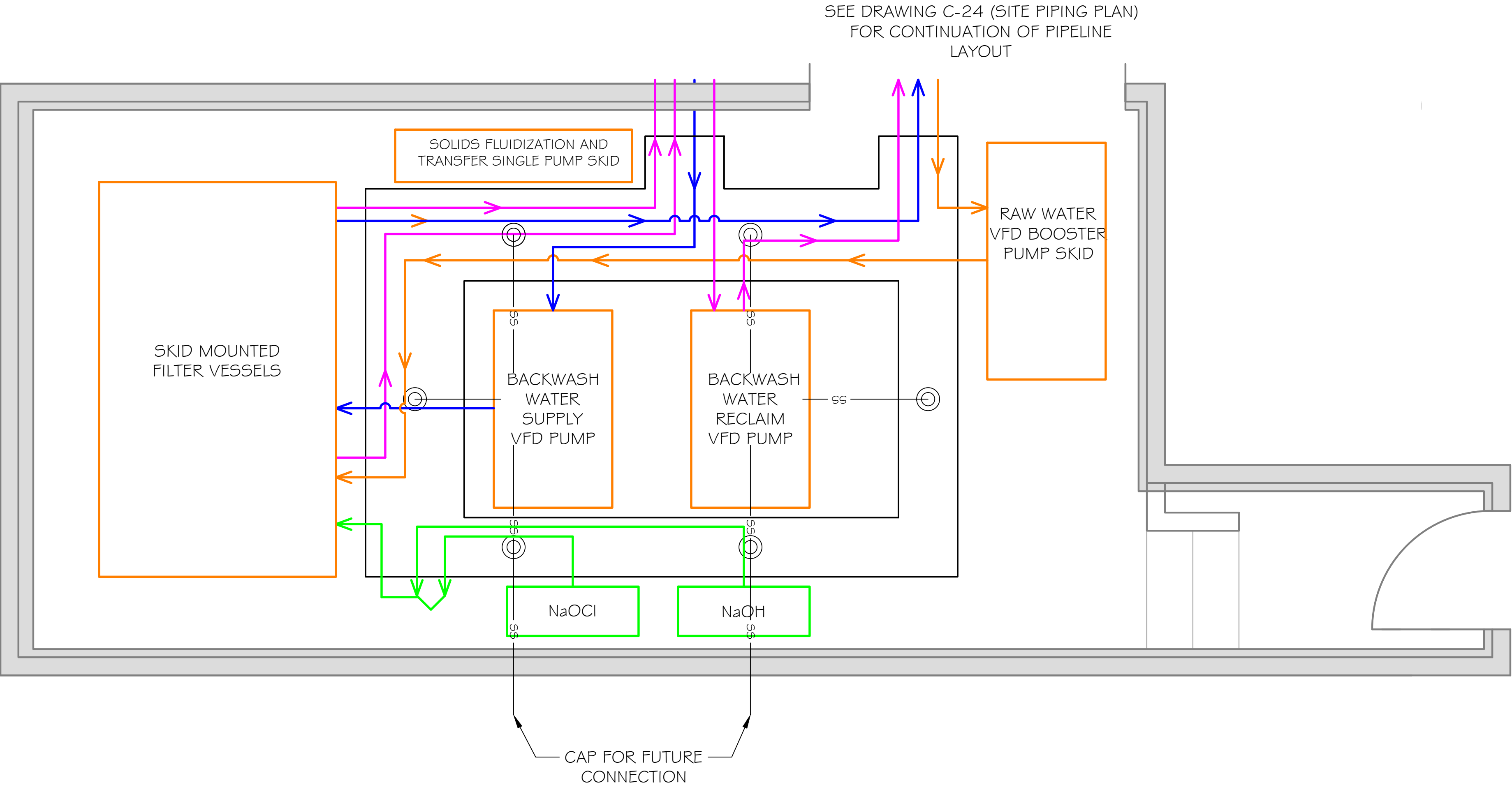


DATE: JUNE 13, 2025
SCALE: 1" = 2'
PROJECT No.: 2789-003

DWG No. C-18
SHEET No. 31 OF 48

C:\DATA\2789-003\Water Treatment Facility\Drawings\WTF_Equipment_Floor_Plan.dwg - Phase 1 (Amended) 130-35-017 - C-19 - WTF FLOOR & ROOF PLANS.dwg

NOTE:
WATER TREATMENT EQUIPMENT LAYOUT AND DETAILS ARE SUBJECT TO CHANGE PENDING THE FINALIZED EQUIPMENT DESIGN SUBMITTED BY THE TREATMENT EQUIPMENT VENDOR.



- LEGEND:
- POTABLE WATER PIPELINE
 - RAW WATER PIPELINE
 - RECYCLE/WASTE WATER PIPELINE
 - CHEMICAL PIPELINE
 - SANITARY SEWER
 - EQUIPMENT PUMP SKID
 - CHEMICAL FEED SYSTEM SKID (WALL MOUNTED)

WTP BUILDING PIPELINES LAYOUT
SCALE : 1" = 2'-0"



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



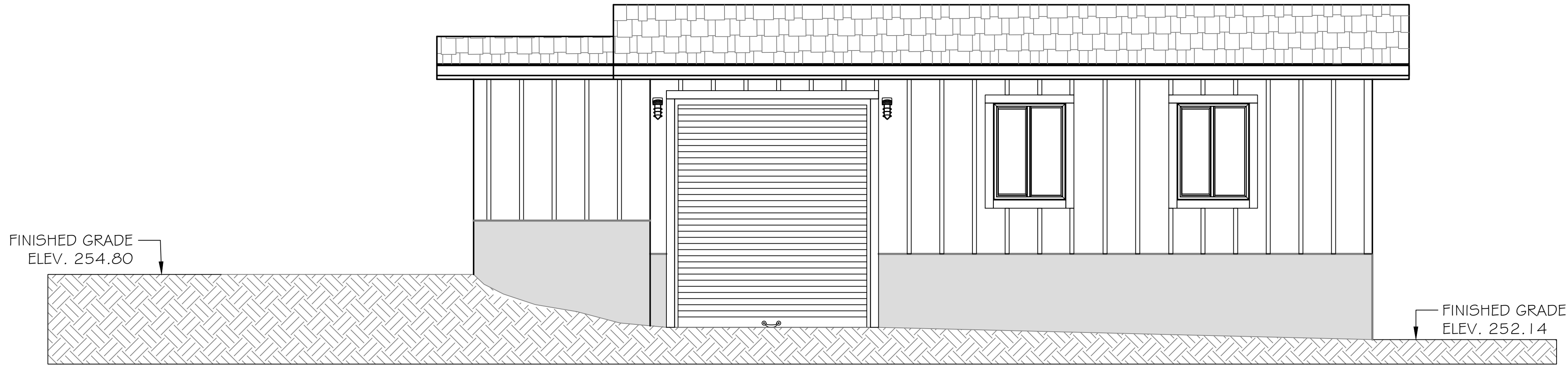
TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
WTF BUILDING PIPELINES
LAYOUT

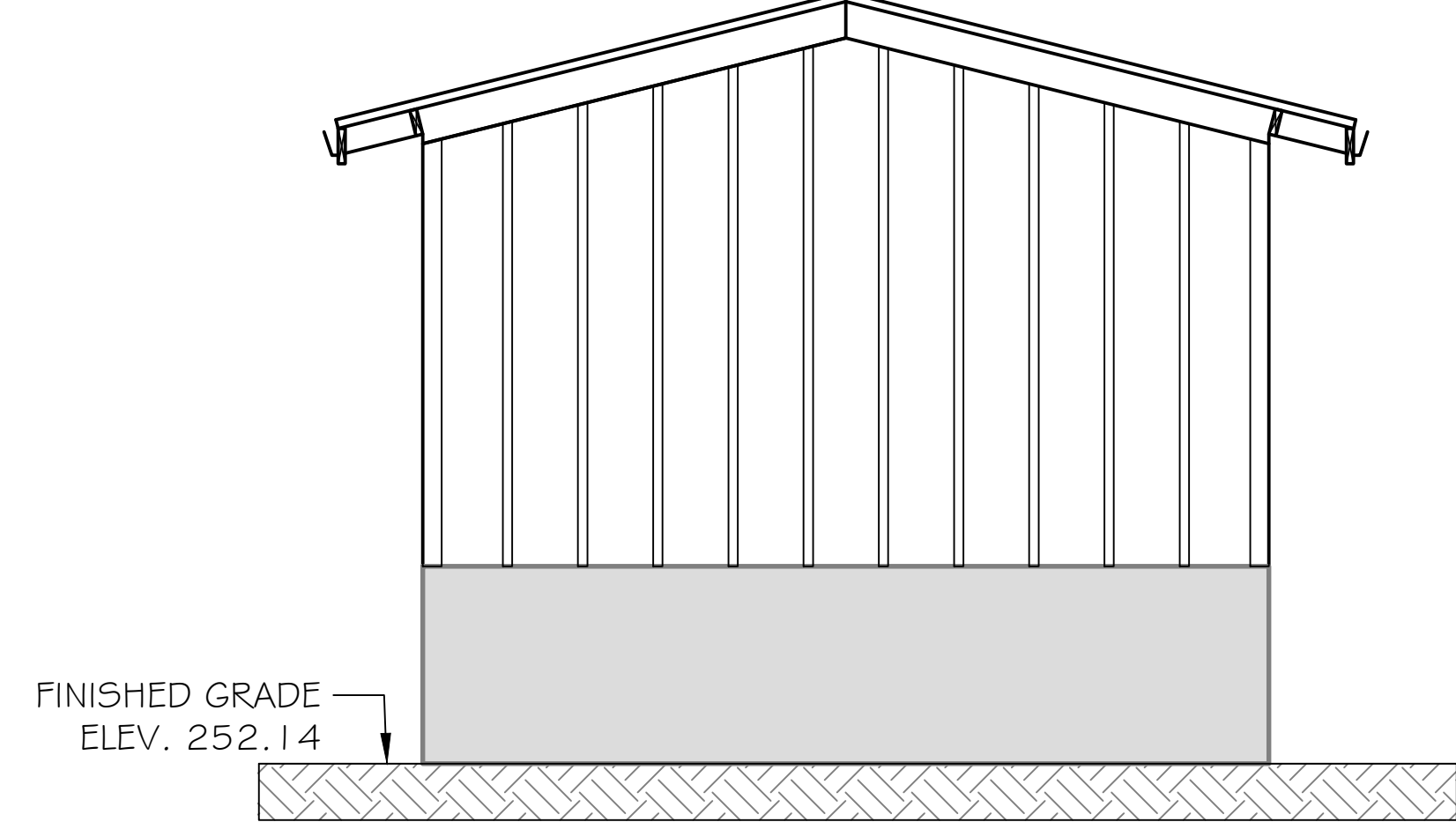


DATE: JUNE 13, 2025
SCALE: 1" = 2'
PROJECT No.: 2789-003

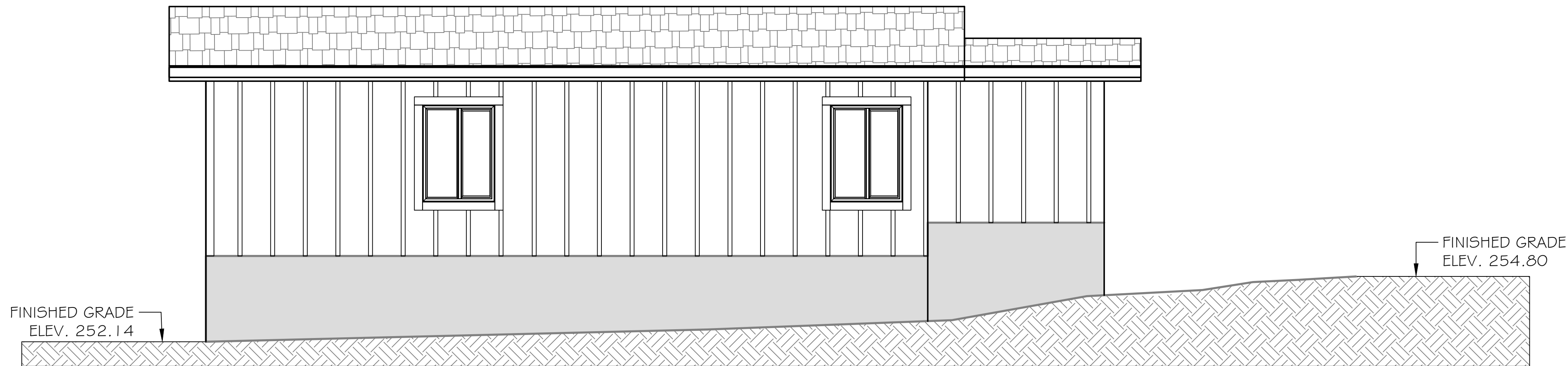
DWG No.
C-19
SHEET No.
32 OF 48



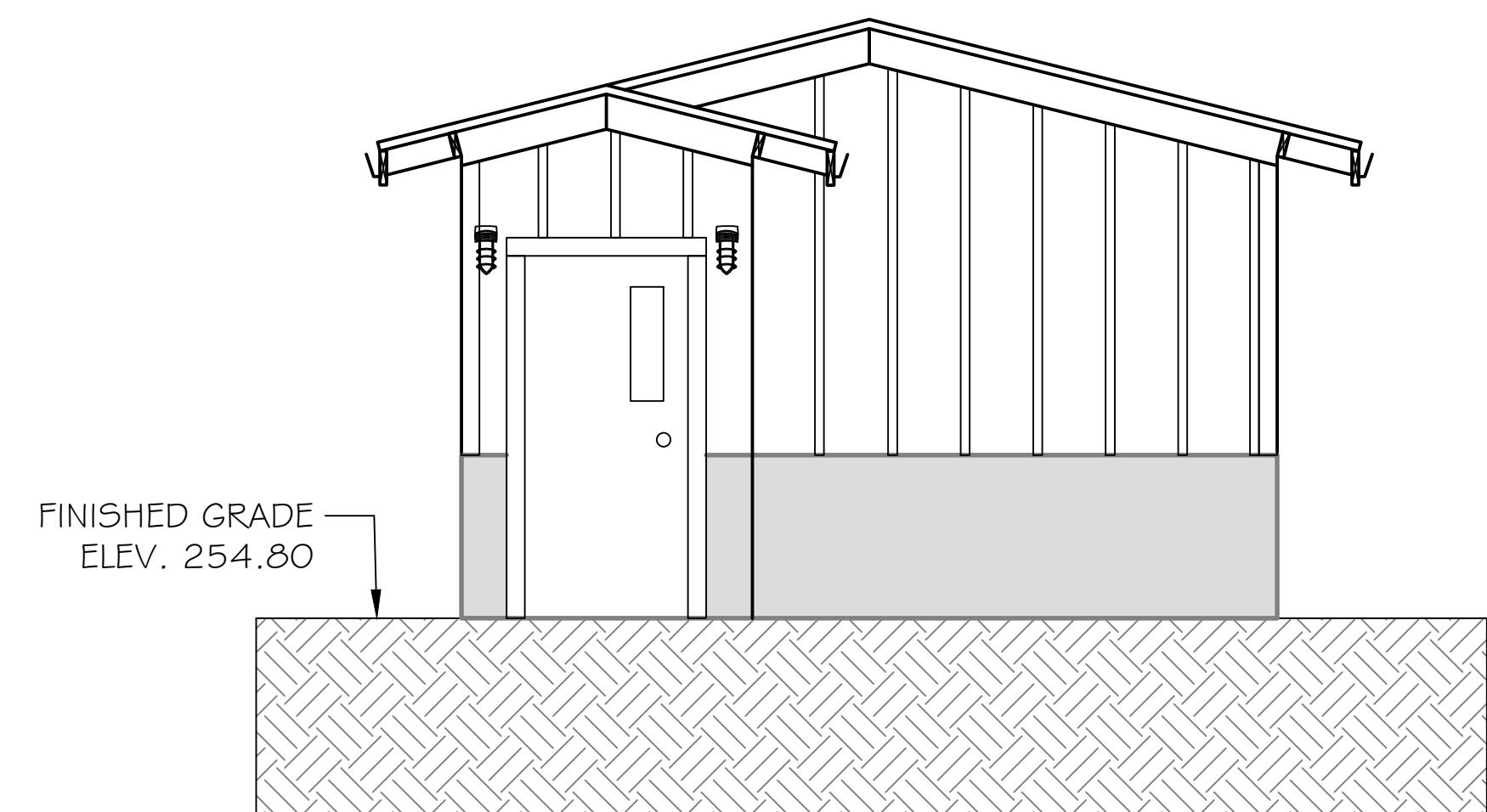
1
C-18 SOUTH-EAST SIDE VIEW - SECTION "A"-"A"
SCALE : 1" = 3'-0"



2
C-18 SOUTH-WEST SIDE VIEW - SECTION "B"-"B"
SCALE : 1" = 3'-0"



3
C-18 NORTH-WEST SIDE VIEW - SECTION "C"-"C"
SCALE : 1" = 3'-0"



4
C-18 NORTH-EAST SIDE VIEW - SECTION "D"-"D"
SCALE : 1" = 3'-0"

\\STETSON\2789-003\Water Treatment Facility\Drawings\WTF Exterior - Phase I.dwg (Amended) 10-30-25 10:45:35 C:\Users\jrd\OneDrive\Documents\WTF Exterior - Phase I.dwg



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

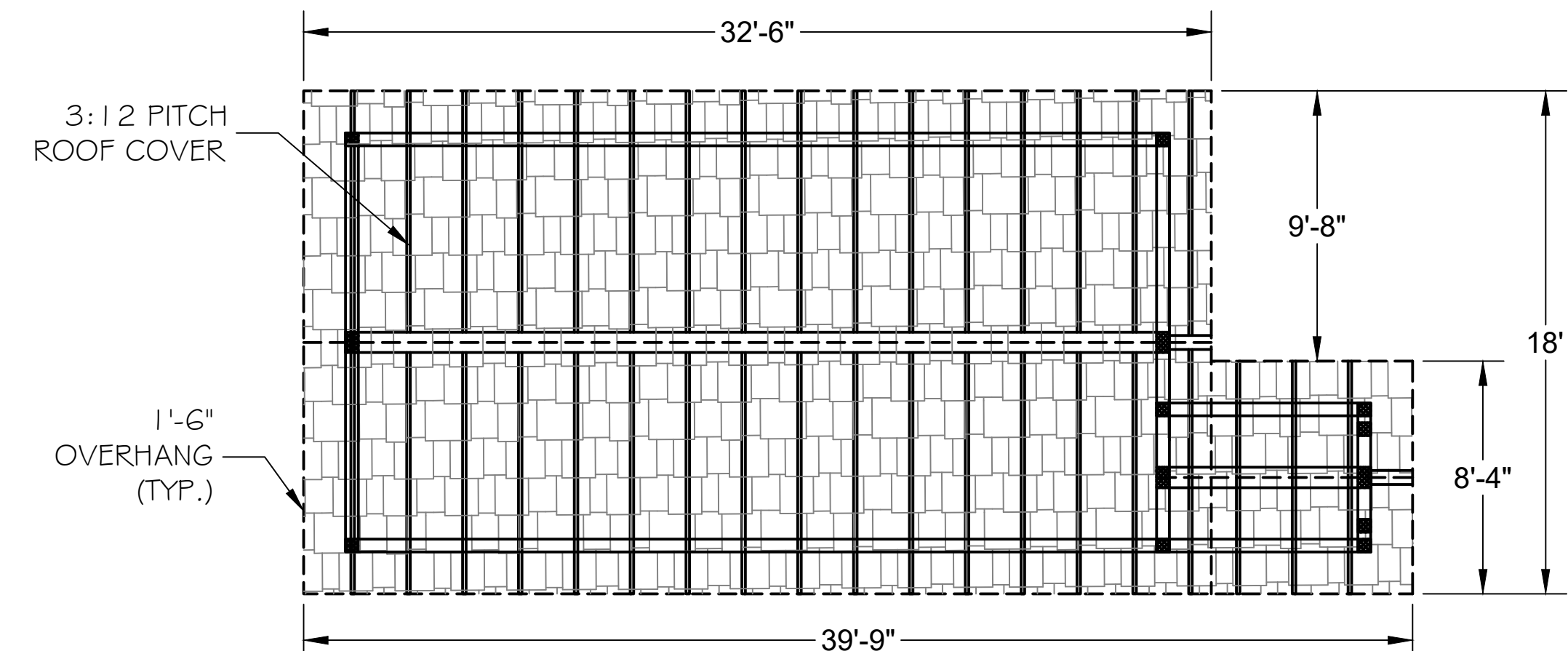


TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
WTF BUILDING EXTERIOR
SIDE VIEWS

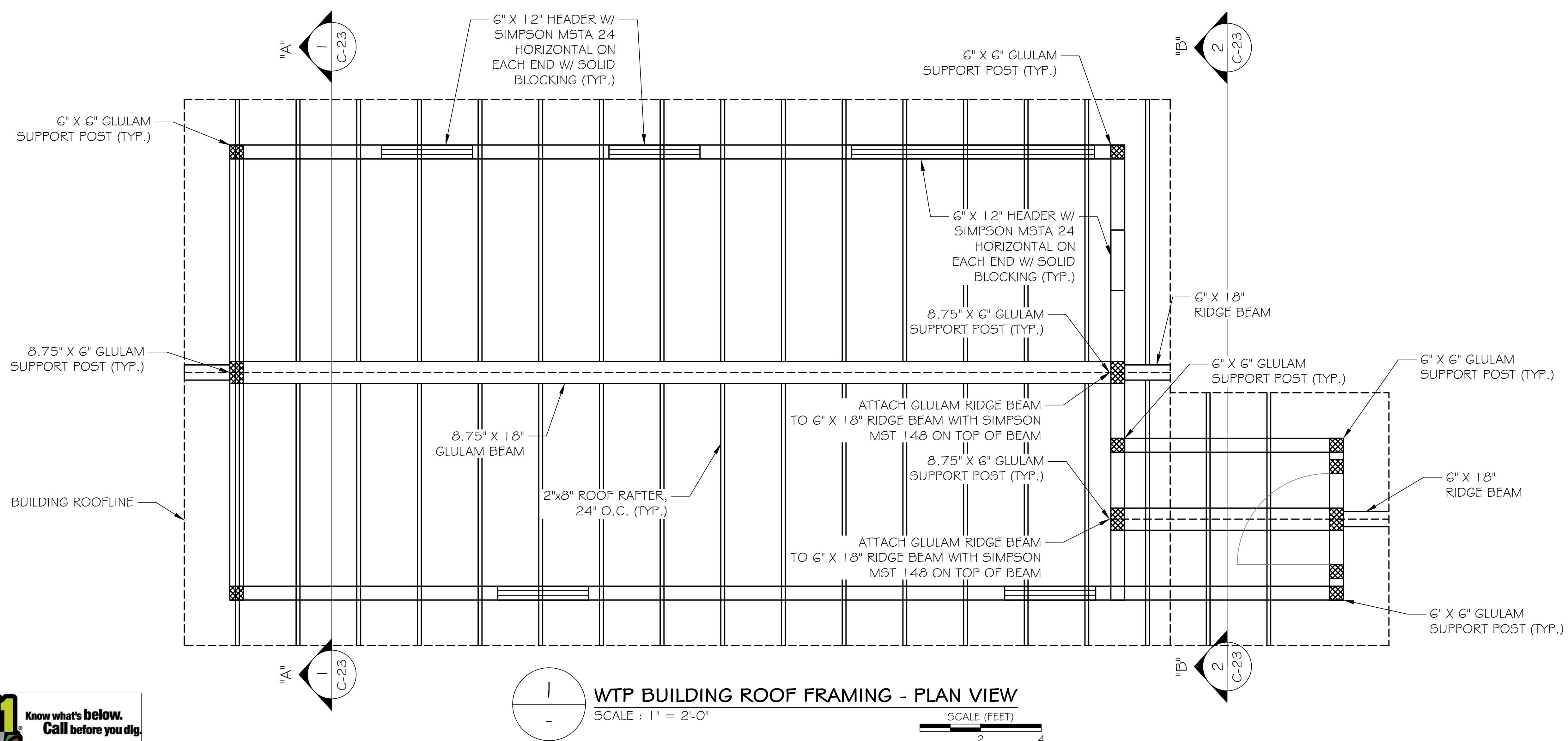
DATE: JUNE 13, 2025
SCALE: 1" = 3'
PROJECT No.: 2789-003

DWG No. C-20
SHEET No. 33 OF 48



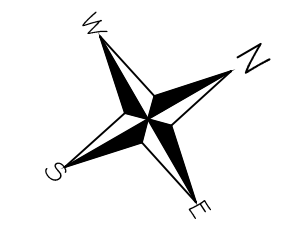
2
-
WTP BUILDING ROOF COVER - PLAN VIEW
SCALE : 1" = 5'-0"

SCALE (FEET)
0 5 10



1
-
WTP BUILDING ROOF FRAMING - PLAN VIEW
SCALE : 1" = 2'-0"

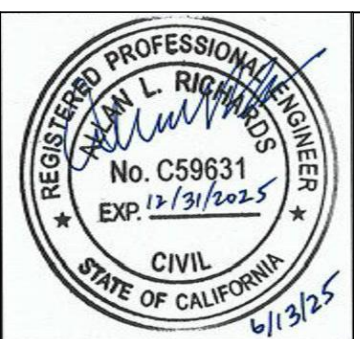
SCALE (FEET)
2 4



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					

STETSON ENGINEERS INC.

Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

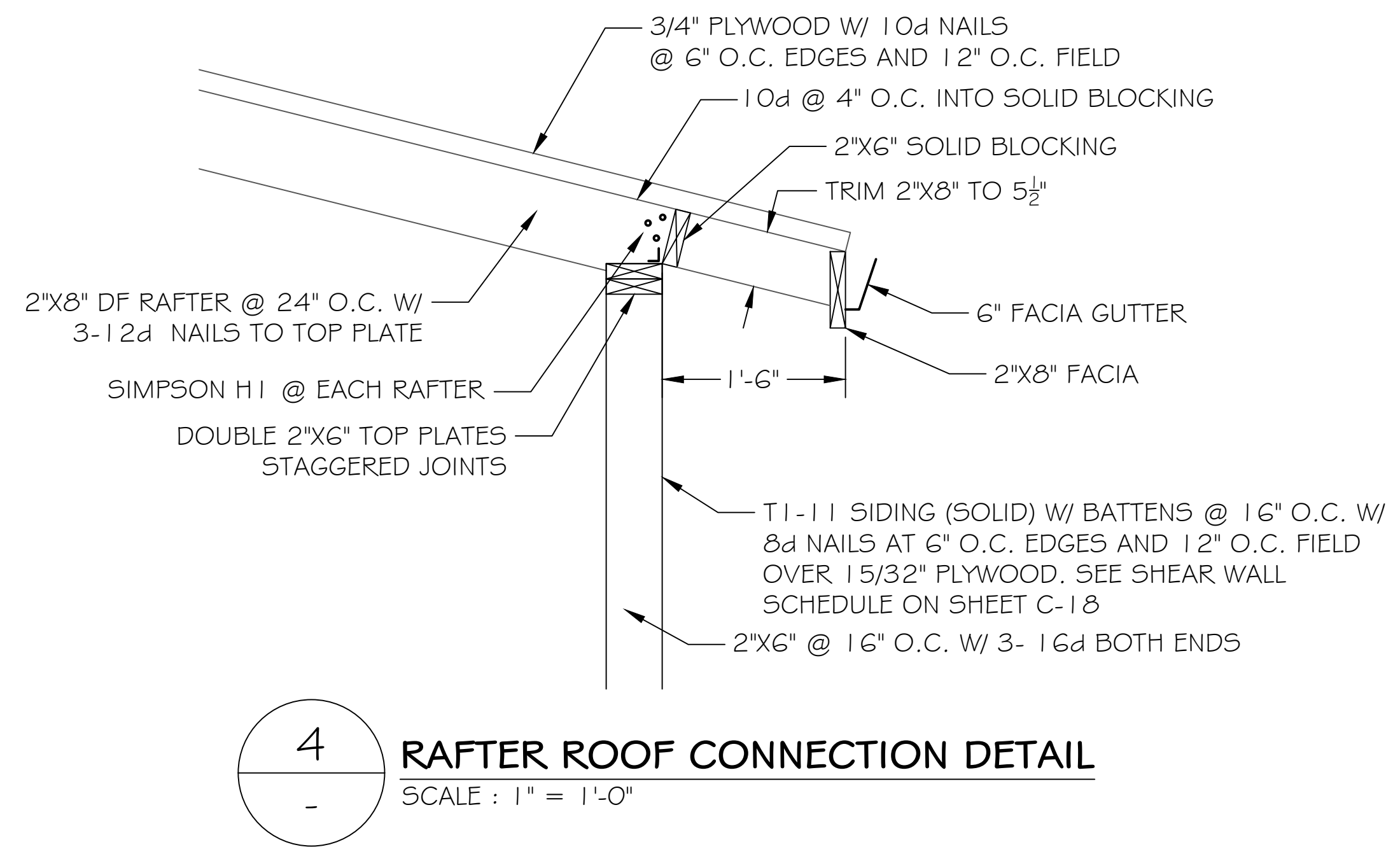
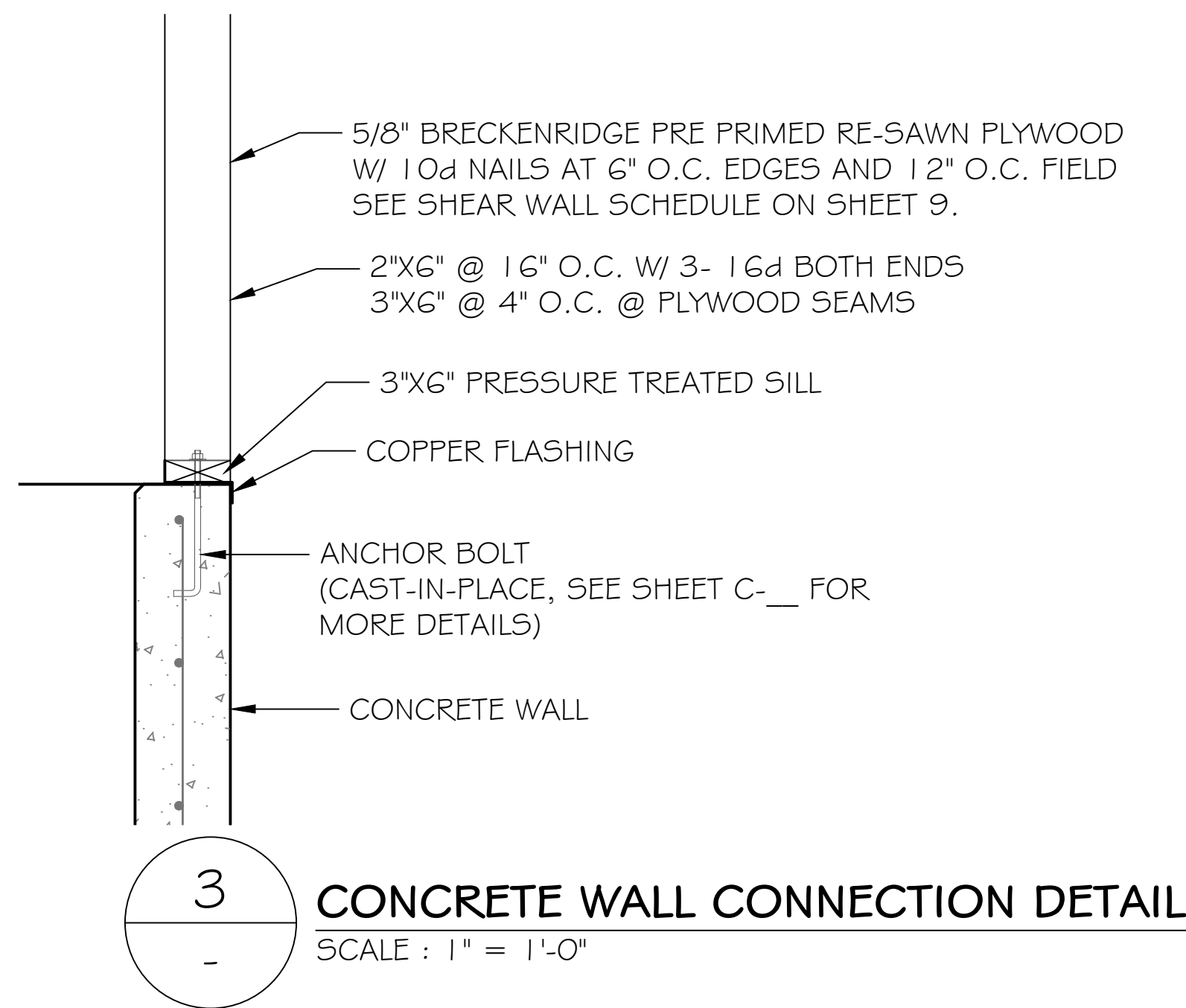
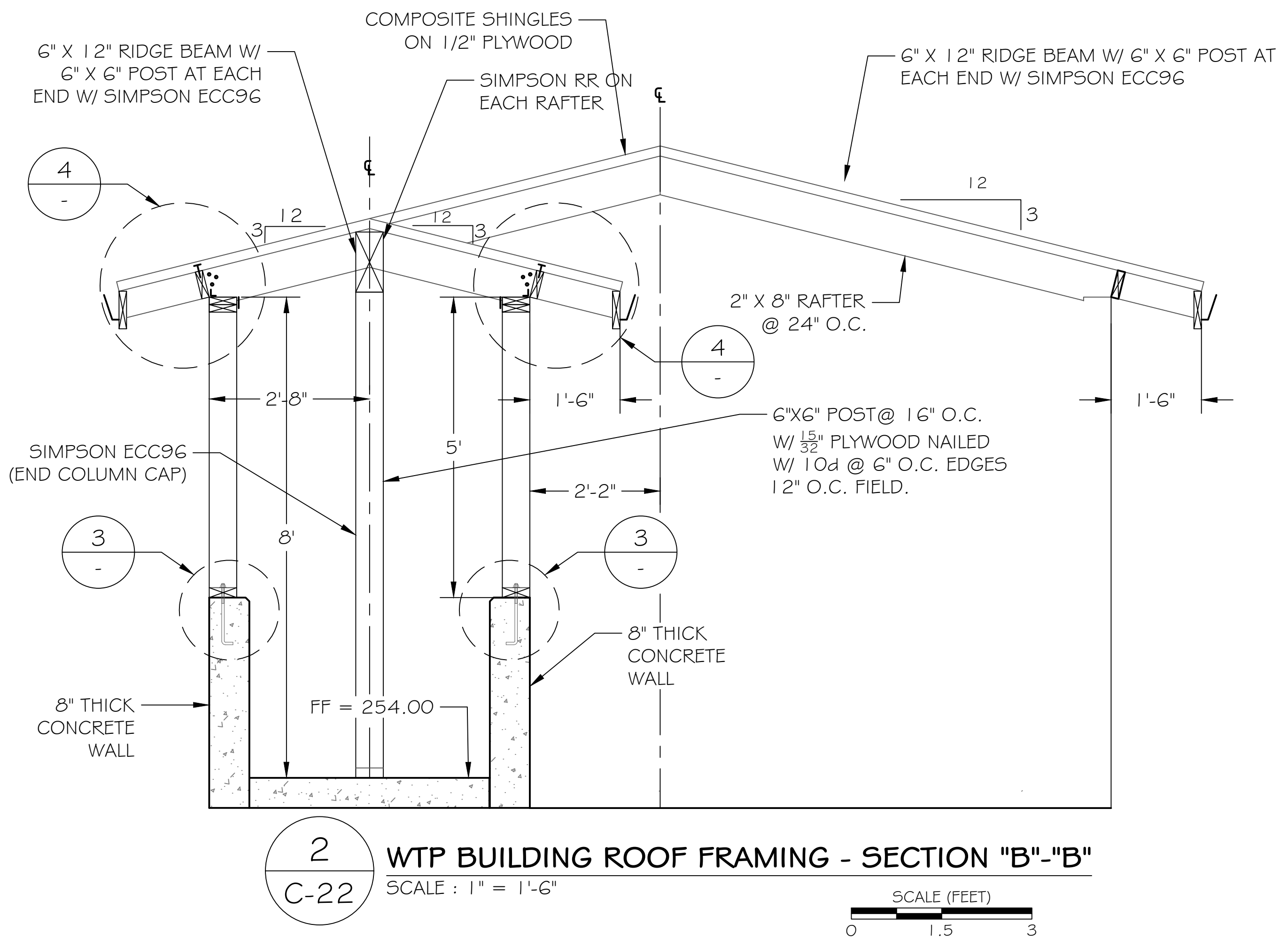
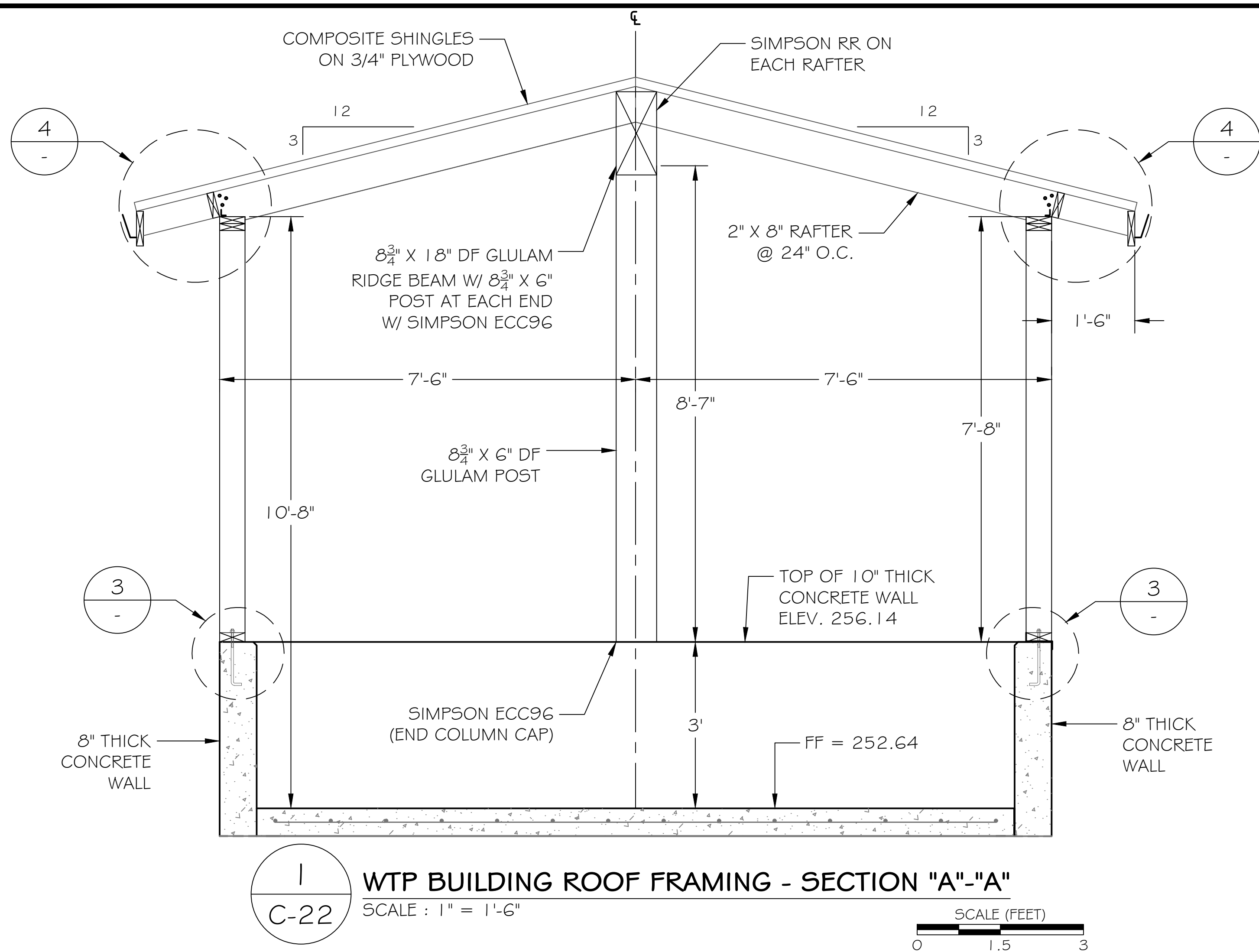


TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
WTF BUILDING ROOF PLAN

DATE: JUNE 13, 2025
SCALE: AS INDICATED
PROJECT No.: 2789-003

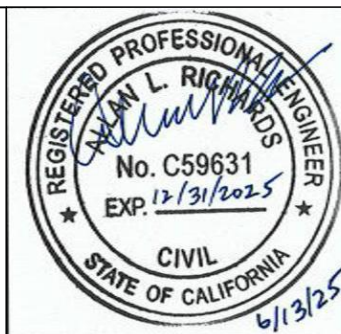
DWG No. C-21
SHEET No. 34 OF 48



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



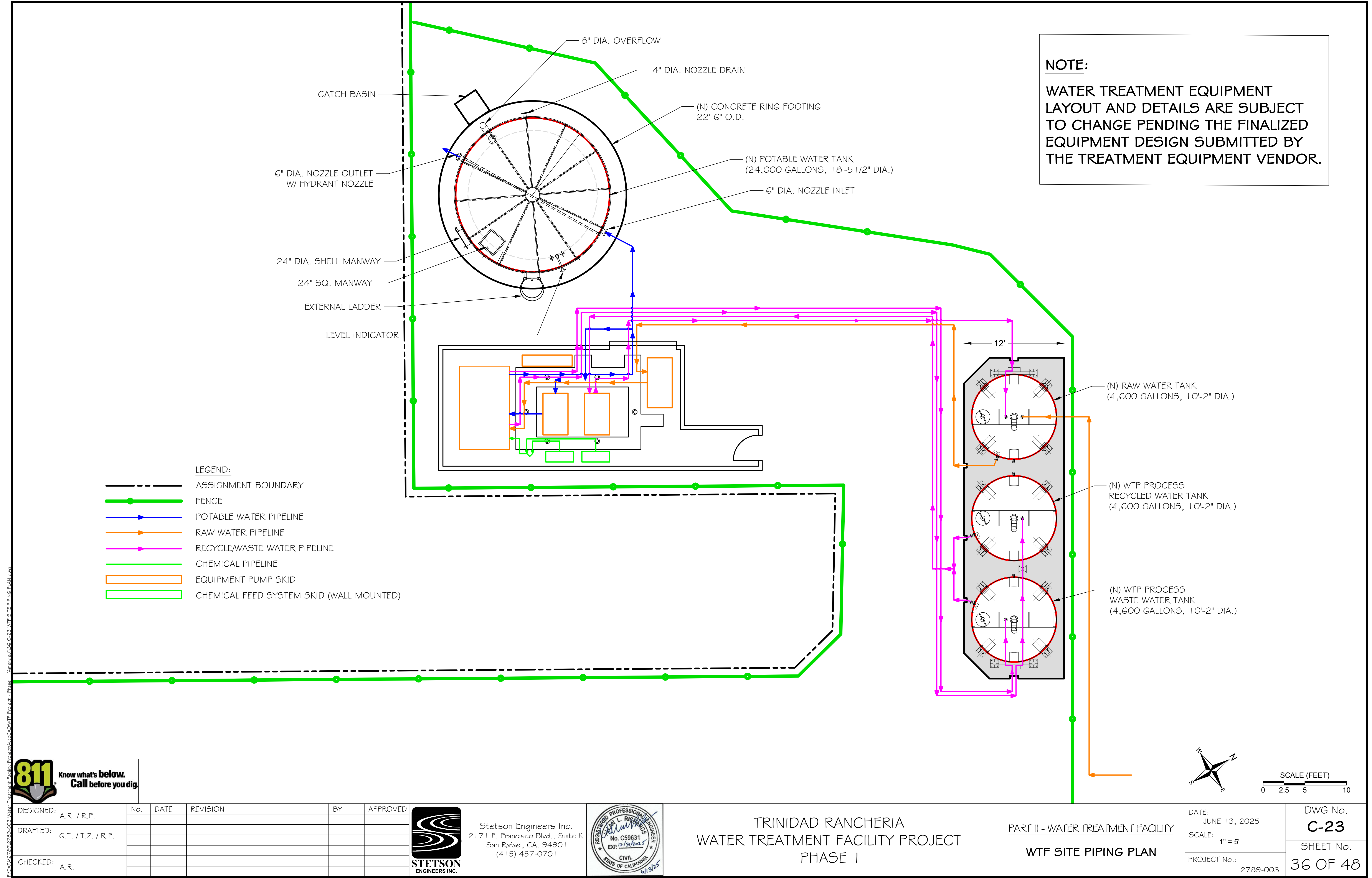
Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701




TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
WTF BUILDING
CROSS-SECTIONS AND
DETAILS

DATE: JUNE 13, 2025	DWG No. C-22
SCALE: AS INDICATED	SHEET No. 35 OF 48
PROJECT No.: 2789-003	





Know what's below.
Call before you dig.

DESIGNED:	A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. / T.Z. / R.F.					
CHECKED:	A.R.					

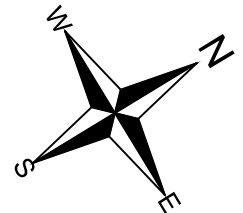


Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



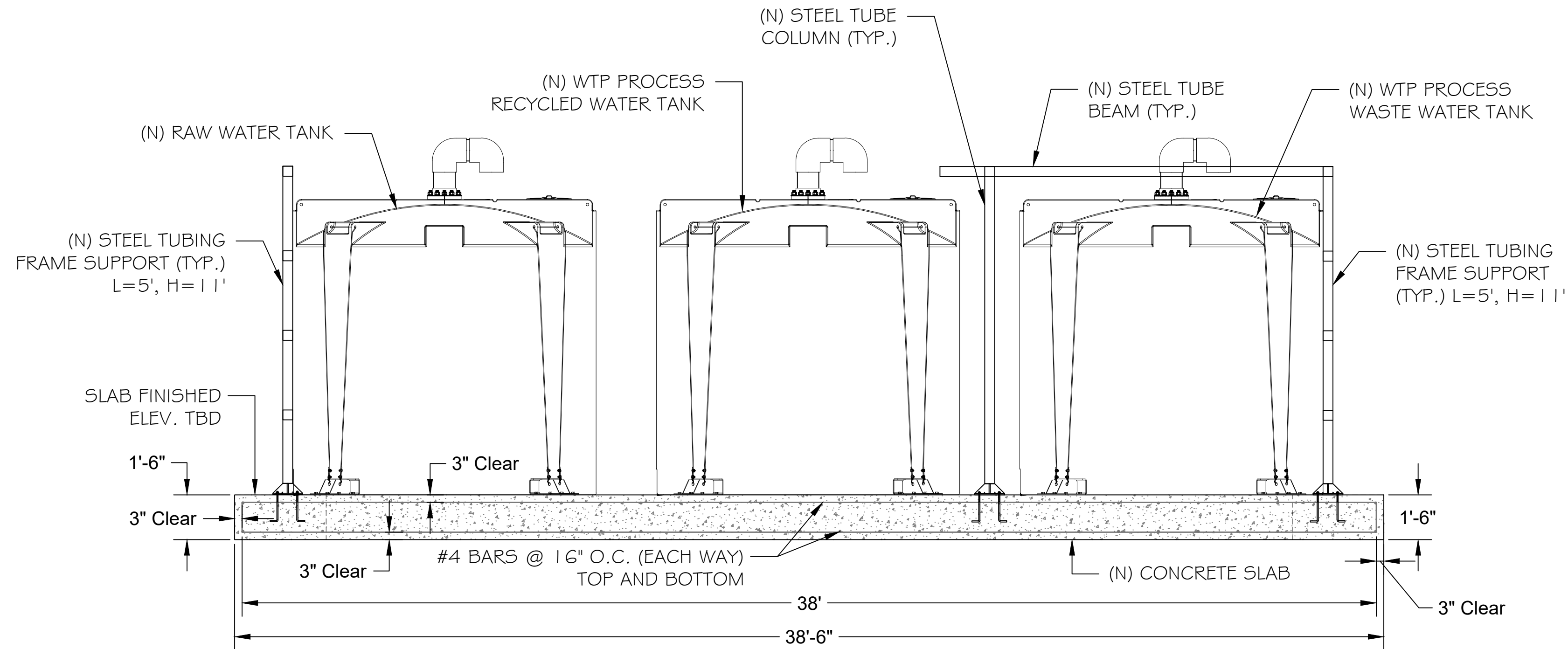
TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
WTF SITE PIPING PLAN

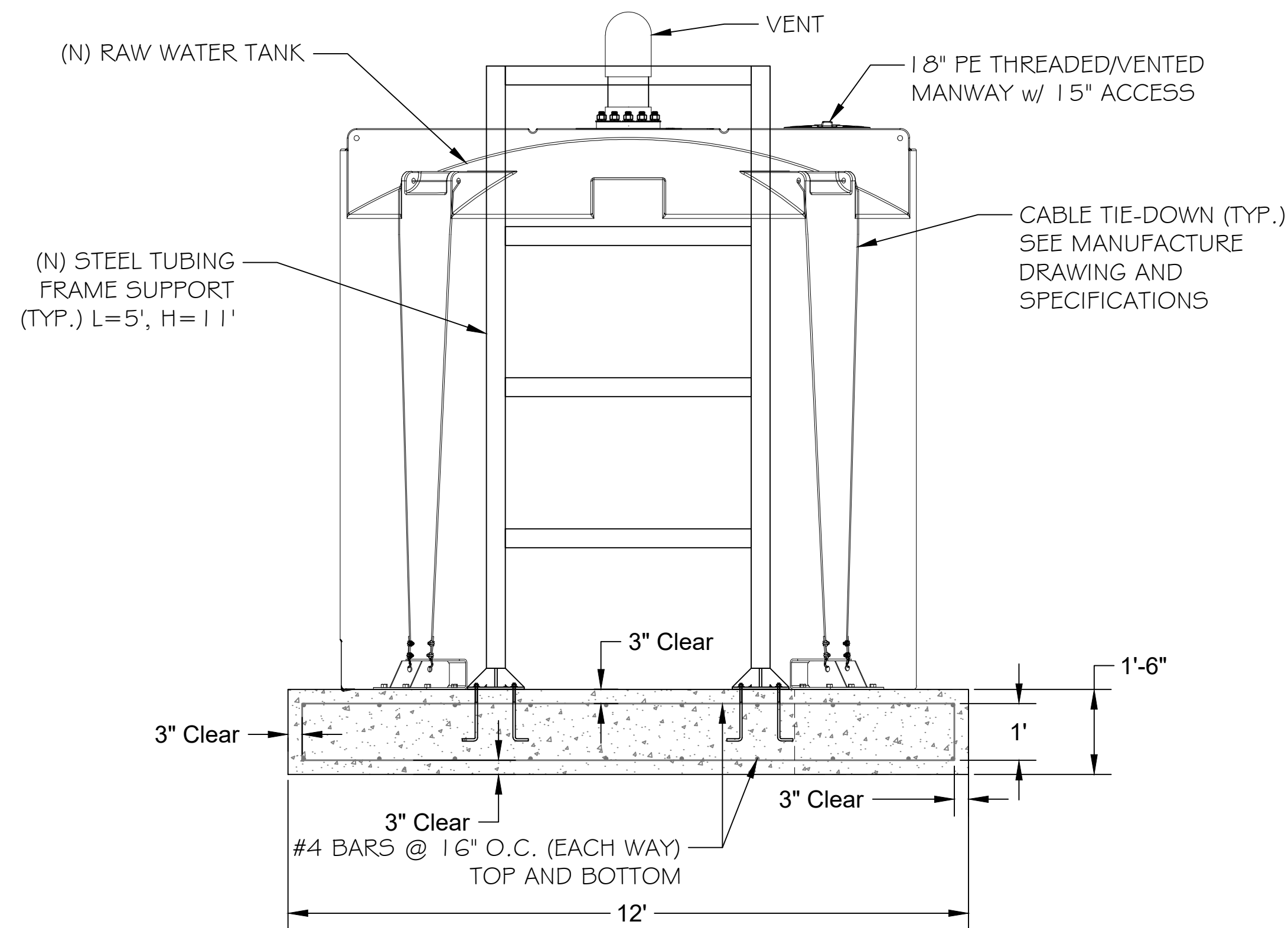


SCALE (FEET)
0 2.5 5 10

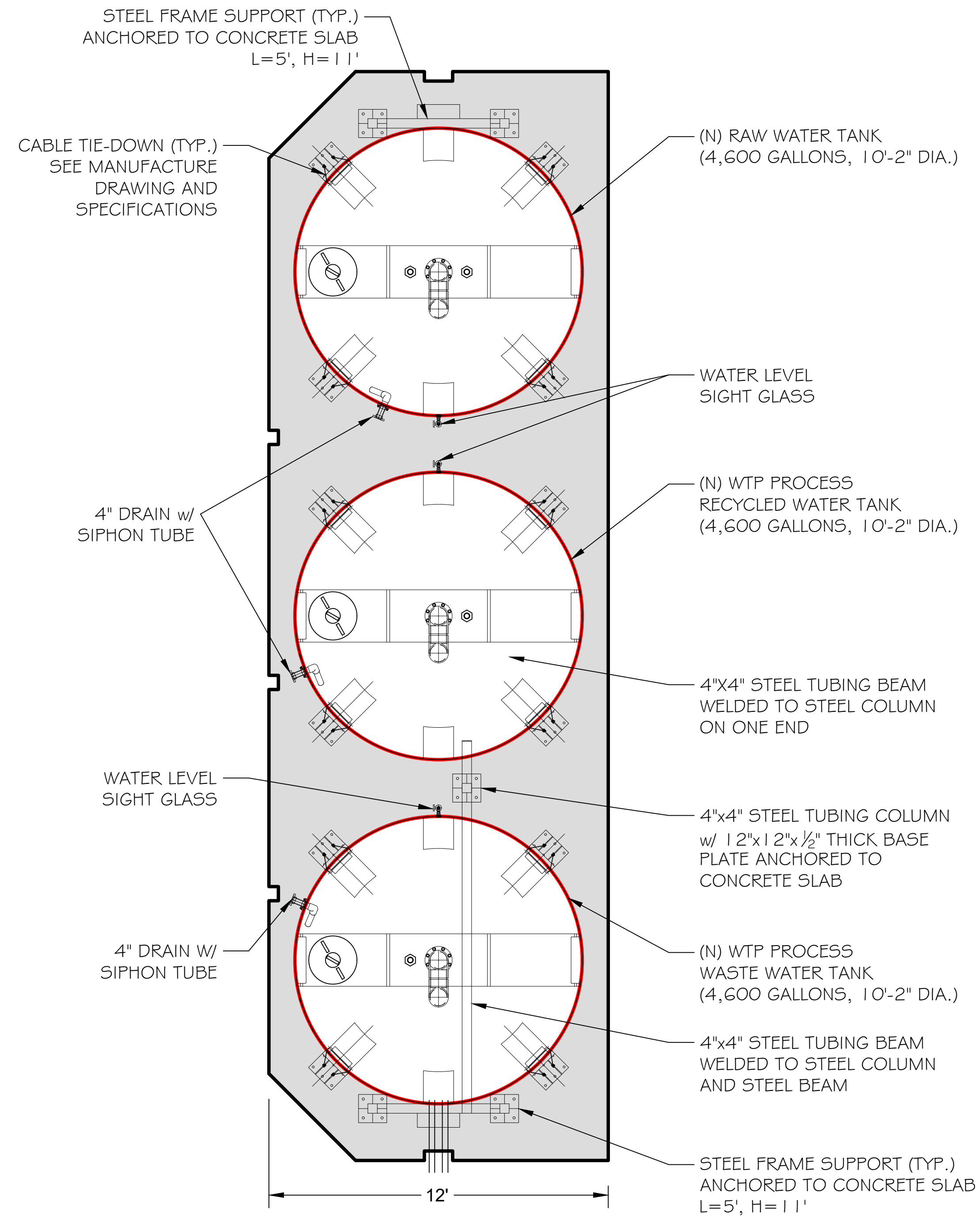
DATE:	JUNE 13, 2025	DWG No.	C-23
SCALE:	1" = 5'	SHEET No.	36 OF 48
PROJECT No.:	2789-003		



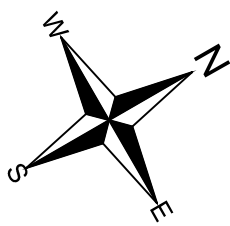
1 TANK FARM PROFILE VIEW
SCALE : 1" = 3'-0"
SCALE (FEET)
0 3 6



2 TANK FARM SIDE PROFILE VIEW
SCALE : 1" = 2'-0"
SCALE (FEET)
0 2 4



3 TANK FARM PLAN VIEW
SCALE : 1" = 3'-0"
SCALE (FEET)
0 3 6



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					

STETSON ENGINEERS INC.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

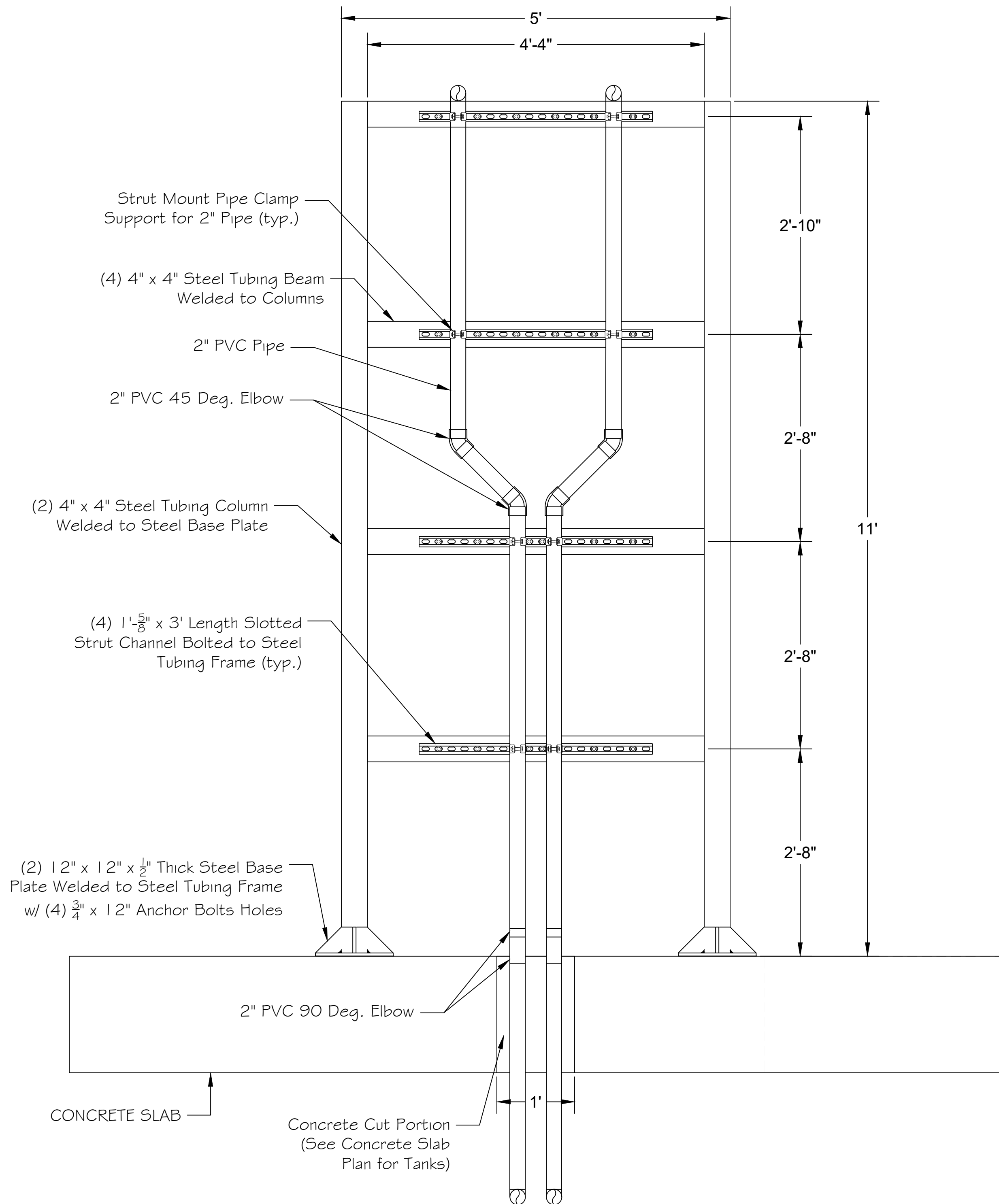


TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

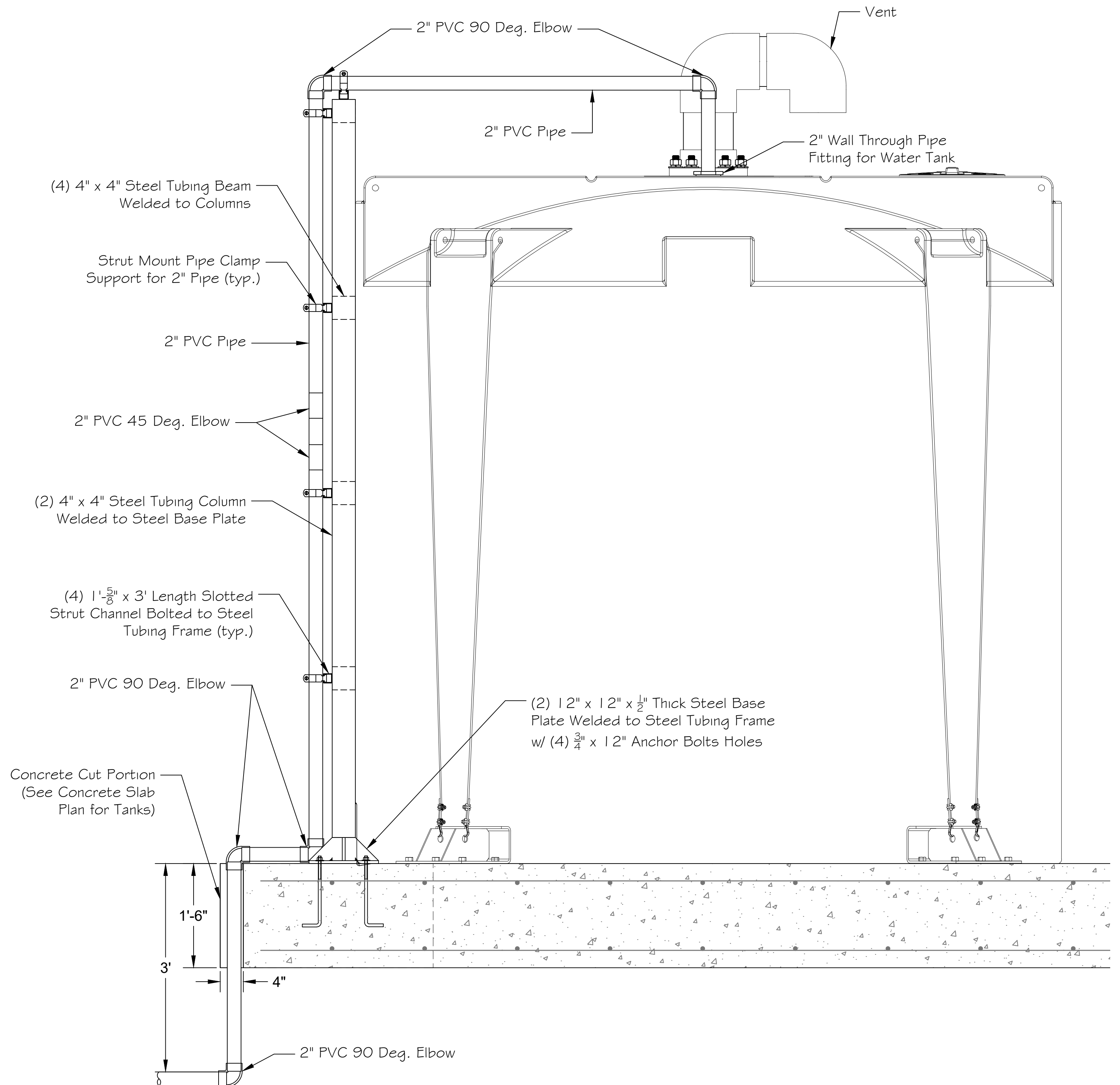
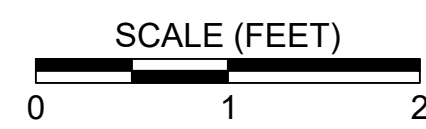
PART II - WATER TREATMENT FACILITY
WTF TANK FARM PLAN

DATE: JUNE 13, 2025	DWG No. C-24
SCALE: AS INDICATED	SHEET No. 37 OF 48
PROJECT No.: 2789-003	

\\STETSON\2789\2789-003\Water Treatment Facility\Drawings\DWG\TANK FARM\PIPE.dwg - Phase I (Amended) 137-410 C-24 - C-27 TANK FARM PIPE.dwg



1
C-24 **STEEL TUBING FRAME PIPE SUPPORT FRONT VIEW**
SCALE : 1" = 1'-0"



2
C-24 **STEEL TUBING FRAME PIPE SUPPORT SIDE VIEW**
SCALE : 1" = 1'-0"



DESIGNED:	A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. / T.Z. / R.F.					
CHECKED:	A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

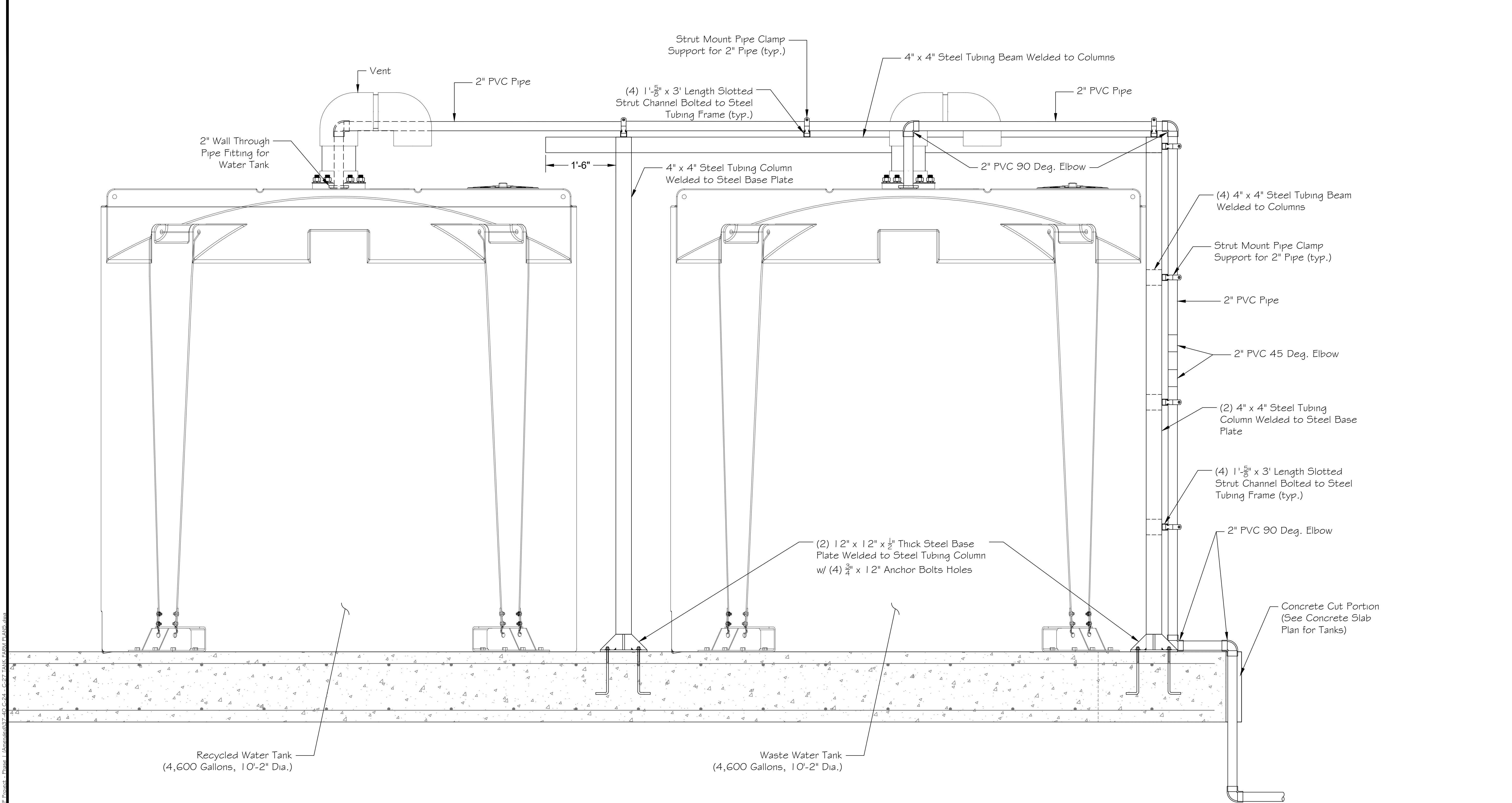


TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
TANK FARM PIPE CONNECTION
DETAILS
STEEL TUBING FRAME PIPE
SUPPORT

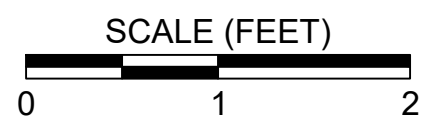
DATE:
JUNE 13, 2025
SCALE:
1" = 1'
PROJECT No.:
2789-003

DWG No.
C-25
SHEET No.
38 OF 48



1
C-25

RECYCLE WATER AND WASTE WATER
SCALE: 1" = 1'-0"



NOTES:
1. STEEL TUBING FRAME SHALL BE HOT-DIPPED GALVANIZED.



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					

STETSON ENGINEERS INC.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



**TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I**

**PART II - WATER TREATMENT FACILITY
TANK PIPE CONNECTION
DETAILS
RECYCLED WATER AND
WASTEWATER TANKS**

DATE: JUNE 13, 2025
SCALE: 1" = 1'
PROJECT No.: 2789-003

DWG No. C-26
SHEET No. 39 OF 48

\\P01\10\2789\2789-003 Water Treatment Facility Project\AutoCAD\DWG Project - Phase I (Amended)\37-40 C-24 - C-27 TANK FARM PLATE.dwg



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

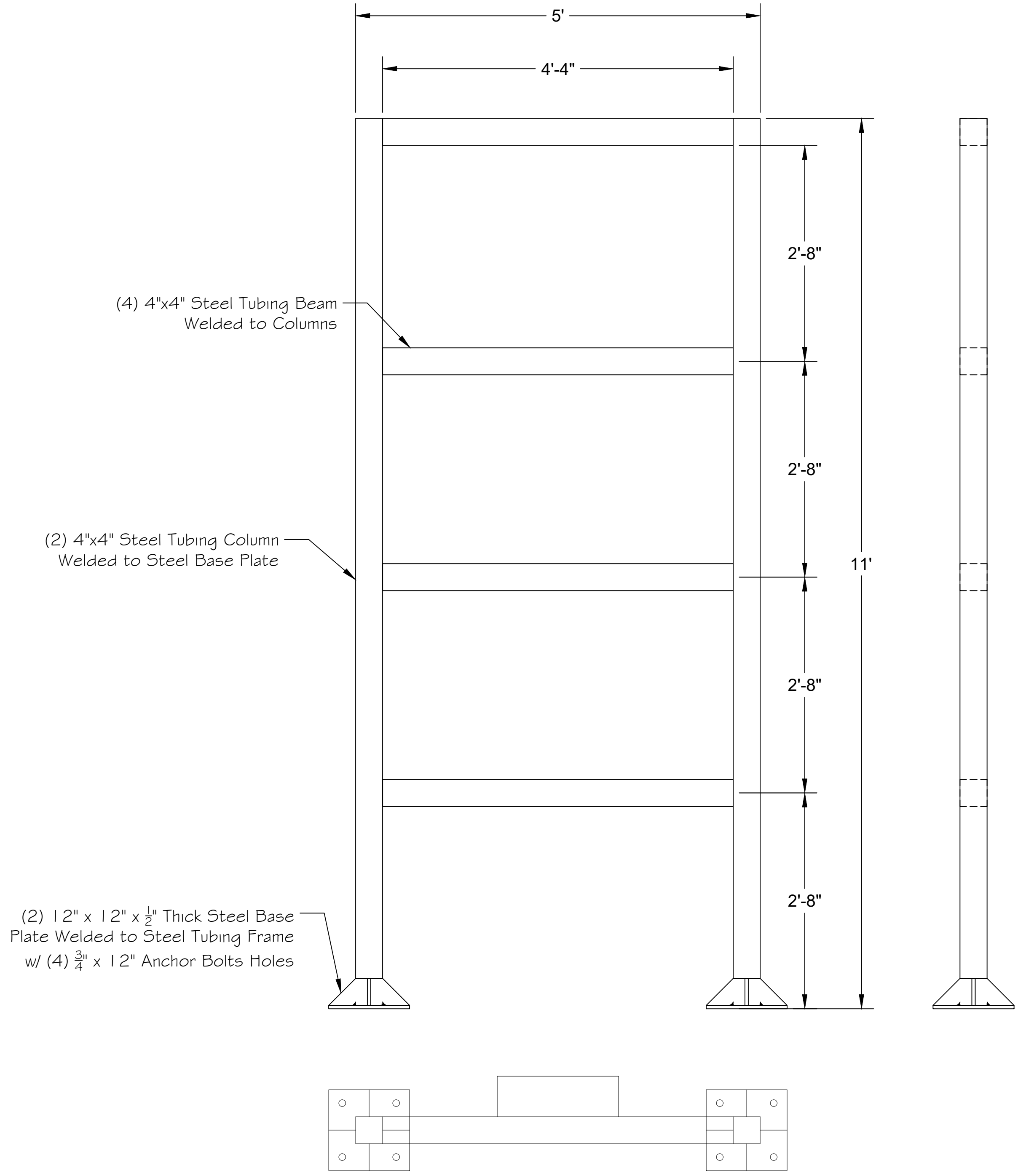


TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY

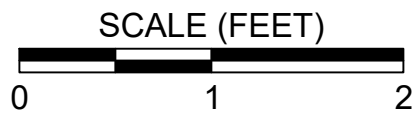
TANK FARM
MISCELLANEOUS DETAILS

DATE: JUNE 13, 2025	DWG No. C-27 SHEET No. 40 OF 48
SCALE: 1" = 1'	
PROJECT No.: 2789-003	



NOTES:
1. STEEL TUBING FRAME SHALL BE HOT-DIPPED GALVANIZED.

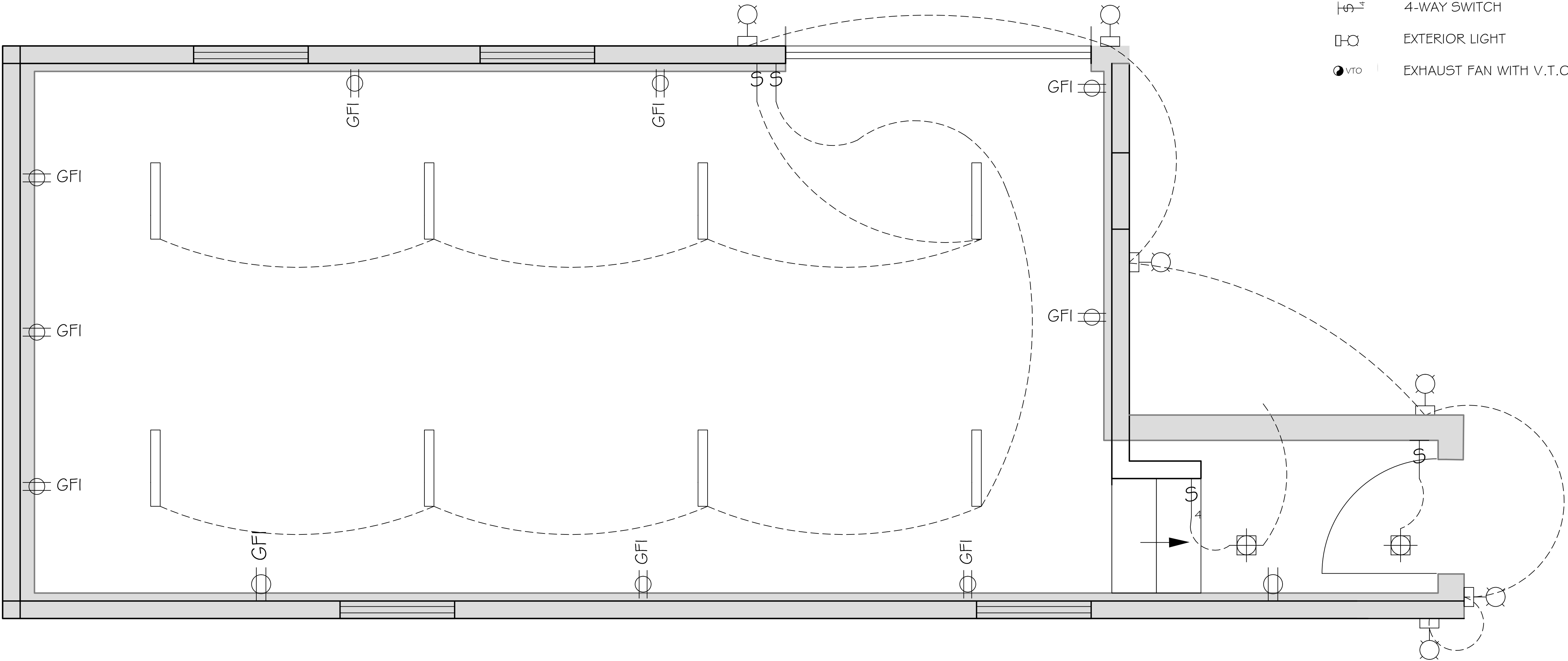
1
C-26 **STEEL TUBING FRAME PIPE SUPPORT DETAILS**
SCALE : 1" = 1'-0"



C:\DATA\2789-003\Water Treatment Facility\Project\AutoCAD\WTP Project - Phase I (General)\M1_48.dwg E:\WTP ELECTRICAL PLANS.dwg

ELECTRICAL / MECHANICAL SYMBOLS

- 110 VOLT DUPLEX OUTLET
- GFI GROUND FAULT INTERRUPT DUPLEX
- RECESSED LIGHT FIXTURE
- 8' DOUBLE LED BULB FIXTURE
- SINGLE POLE SWITCH
- 3-WAY SWITCH
- 4-WAY SWITCH
- EXTERIOR LIGHT
- VTO EXHAUST FAN WITH V.T.O.



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					

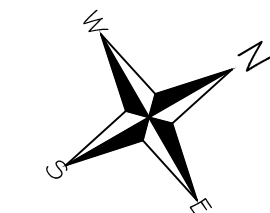


Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY
WTP BUILDING
GENERAL ELECTRICAL PLAN

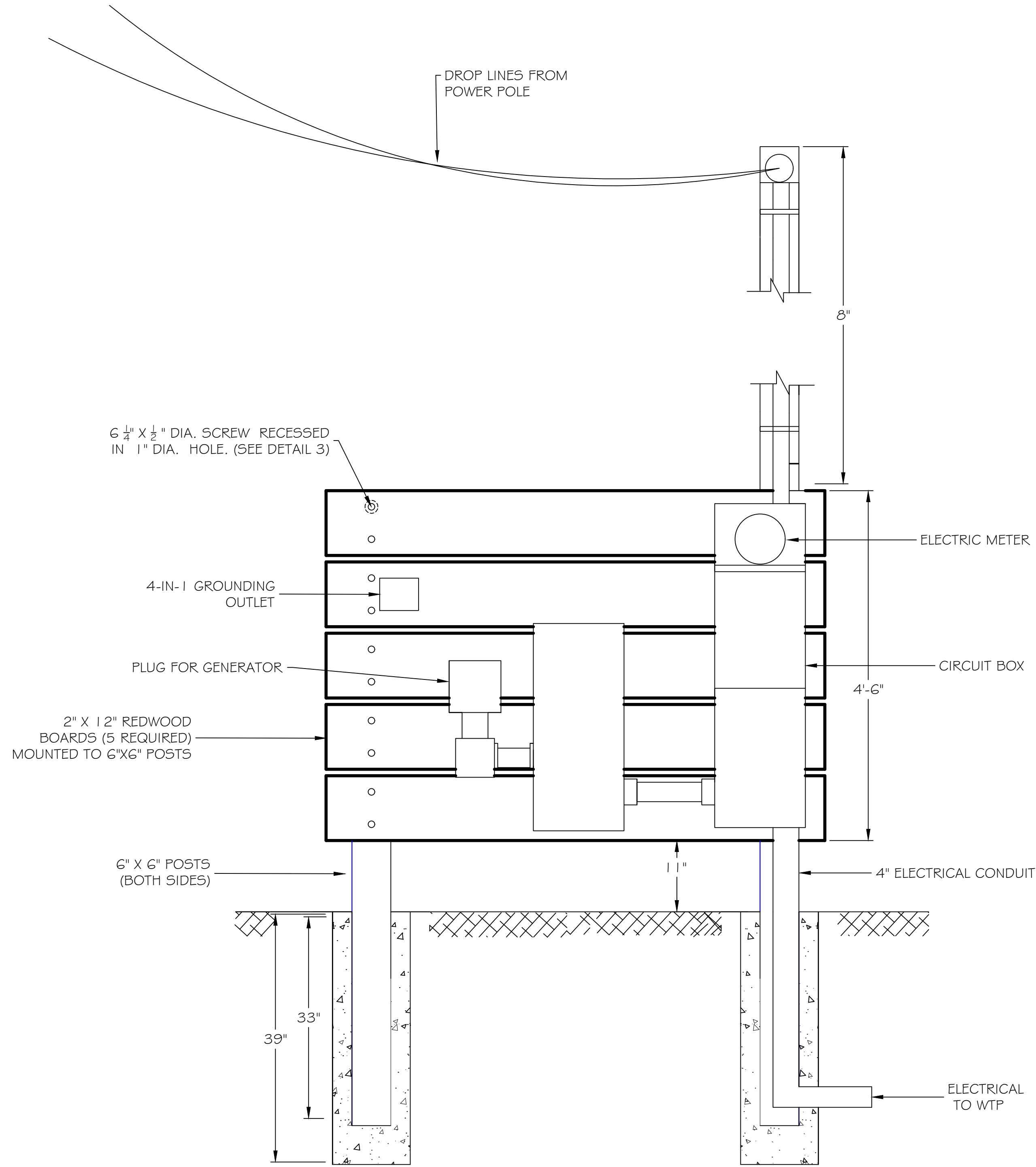


SCALE (FEET)
0 10 20 40

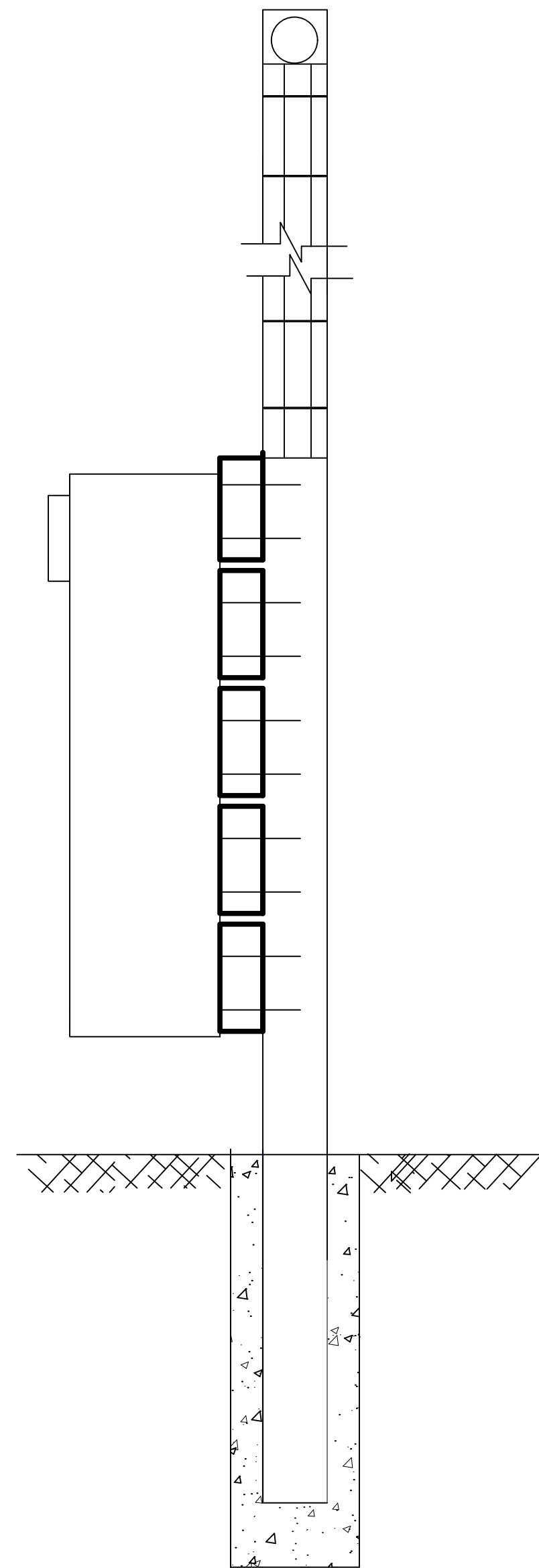
DATE: JUNE 13, 2025
SCALE: 1" = 20'
PROJECT No.: 2789-003

DWG No.
E-I
SHEET No.
41 OF 48

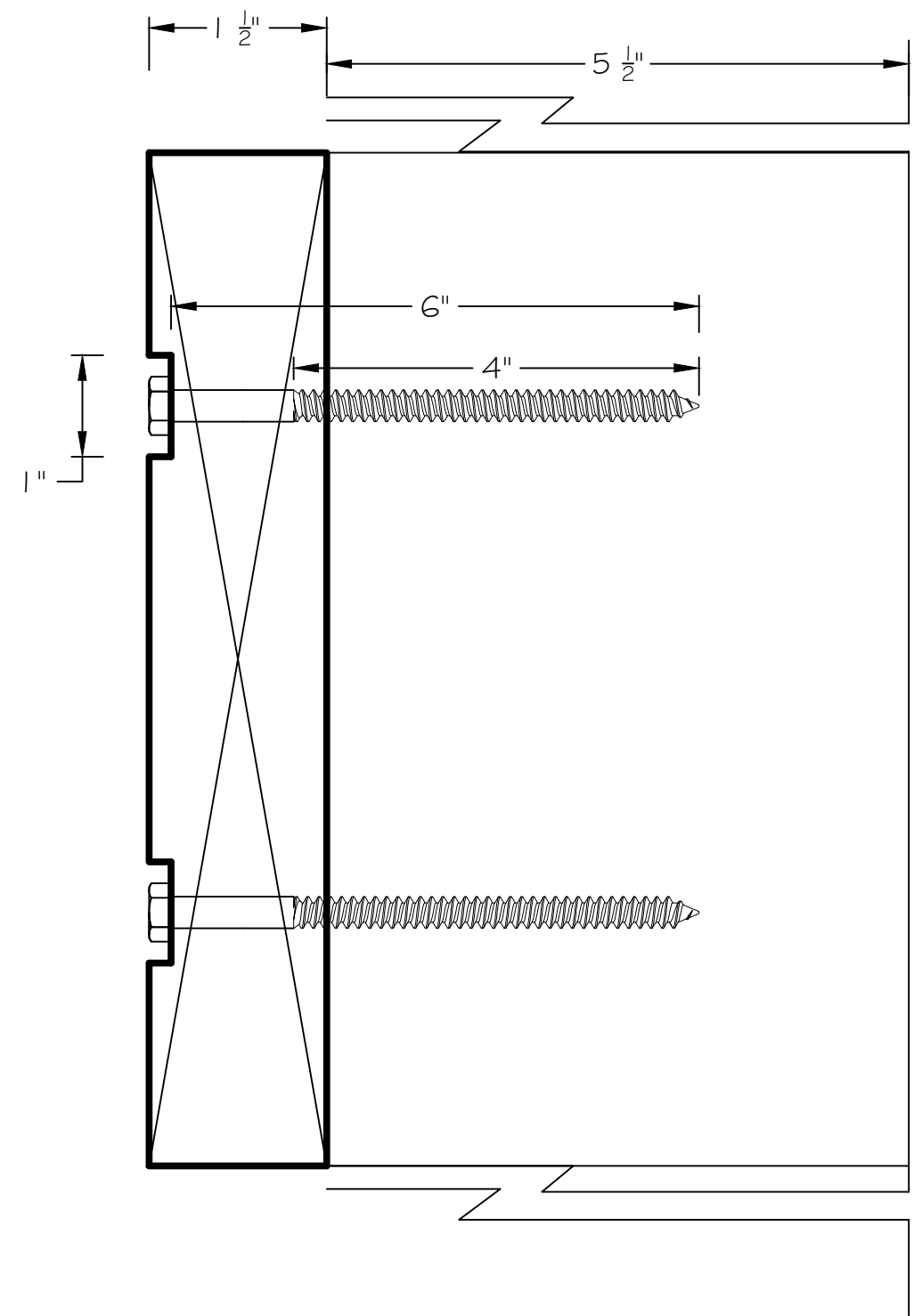
C:\DATA\2789-003\2789-003.dwg Plotter: Trinidad Rancheria Water Treatment Facility Electrical Details.dwg Plot: E2-WTE-ELECTRICAL DETAILS.dwg



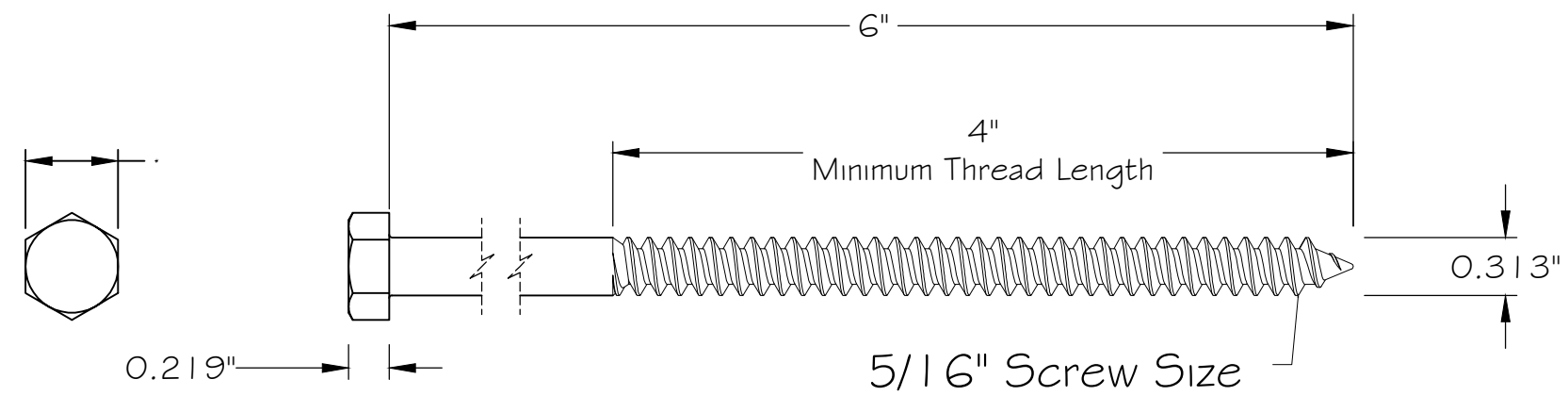
1 ELECTRICAL PANEL - FRONT VIEW



2 ELECTRICAL PANEL - SIDE VIEW



HEX HEAD SCREWS
FOR WOOD
MCMASTER-CARR PART
NO. 94048A278



3 HEX HEAD SCREW DETAIL



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PART II - WATER TREATMENT FACILITY

WTP BUILDING
ELECTRICAL DETAILS

DATE: JUNE 13, 2025
SCALE: AS INDICATED
PROJECT No.: 2789-003

DWG No.

E-2

SHEET No.

42 OF 48

TRINIDAD RANCHERIA WATER TREATMENT FACILITY PROJECT

CHER-AE HEIGHTS INDIAN COMMUNITY OF THE TRINIDAD RANCHERIA - CALIFORNIA

FUNDED BY CALIFORNIA DEPARTMENT OF WATER RESOURCES, UNDER THE SMALL COMMUNITY DROUGHT RELIEF PROGRAM

PART III - PIPELINES AND WELLS

GENERAL NOTES

- PRIOR TO START OF ANY WORK AT THE PROJECT SITE, THE CONTRACTOR SHALL NOTIFY TRINIDAD RANCHERIA'S REPRESENTATIVE AND, THE PROJECT ENGINEER, STETSON ENGINEERS INC., ATTN: ALLAN RICHARDS (415) 457-0701 / ALLANR@STETSONENGINEERS.COM, TO ALLOW PROPER COORDINATION AND NOTIFICATION TO THE PROPERTY OWNERS.
- THE PROJECT WORK SHALL CONSIST OF INSTALLING NEW 2-INCH AND 3-INCH DIAMETER PIPE ALONG THE ALIGNMENT SHOWN IN THIS PLAN SET BY OPEN TRENCH OR HORIZONTAL DIRECTION DRILLING METHODS. THE WORK SHALL CONSIST OF DIRECTIONAL DRILLING ALONG UNIMPROVED HILLSIDES; INSTALLATION OF PIPE BEDDING; INSTALLATION OF PIPE BEDDING, INSTALLATION OF FITTINGS AND VALVES; TIE-INS TO NEW WELL SITE PIPING, ON-SITE WATER TREATMENT FACILITY PIPING TO NEW RAW WATER STORAGE TANK. THE COMPLETED WORK WILL ALSO REQUIRE A HYDROSTATIC PRESSURE TEST AND DISINFECTION OF THE NEW PIPELINE AND WELLHEADS.
- CONTRACTOR MUST NOTIFY UNDERGROUND SERVICE ALERT OF NORTHERN/CENTRAL CALIFORNIA AND NEVADA (USA NORTH) AT 811 OR ONLINE AT USANORTH811.ORG, AT LEAST TWO (2) DAYS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM UTILITY EXPLORATION TO VERIFY LOCATIONS OF EXISTING UTILITIES (INCLUDING BUT NOT LIMITED TO, GAS PIPELINES EXISTING WATER PIPELINES, ELECTRICAL, CABLE, AND TELECOMMUNICATIONS UTILITIES, BURIED OR ABOVE GROUND) BY POT-HOLING OR OTHER MEANS, AND PROTECT UTILITIES IN PLACE. CONTRACTOR SHALL REPORT TO THE ENGINEER ANY DISCREPANCIES FOUND OR ANY DETAILS NOT SHOWN ON THE DRAWINGS. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR BEFORE THE SUBMITTAL OF SHOP DRAWINGS FOR THE PIPE AND SPECIAL PIPE SECTIONS.
- THIS PLAN DOES NOT AUTHORIZE ANY WORK WITHIN PUBLIC/PRIVATE RIGHT-OF-WAYS WITHOUT REQUIRED APPROVALS AND/OR PERMITS. CONTRACTOR SHALL WORK WITH THE APPROPRIATE AGENCIES AND TRINIDAD RANCHERIA TO OBTAIN PROPER APPROVAL(S) AND/OR PERMIT(S) AND SHALL SUBMIT TO TRINIDAD RANCHERIA AND PROJECT ENGINEER ALL APPROVAL(S)/PERMIT(S) WITH START OF WORK NOTIFICATION.
- THE LOCATION OF THE EXISTING WATER PIPELINES FOR TIE-INS ARE APPROXIMATED IN THESE DRAWINGS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ACTUAL LOCATIONS AND ALIGNMENT OF EXISTING WATER PIPELINES PRIOR TO START OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES.
- ALL WORK DETAILED HEREIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IN THE CASE OF DISCREPANCY OR AMBIGUITY IN CONTRACT DOCUMENTS AND THIS SET OF DRAWINGS, THE CONTRACTOR IS REFERRED TO DOCUMENT 00700 - GENERAL CONDITIONS ARTICLE 5.7 - PRECEDENCE OF DOCUMENTS OF THE PROJECT MANUAL.
- NO REVISIONS SHALL BE MADE TO THESE DRAWINGS WITHOUT THE APPROVAL OF THE PROJECT ENGINEER AND THE OSAGE NATION.
- ANY DATA AND INFORMATION PROVIDED BY THE TRINIDAD RANCHERIA ON ARE FOR THE CONTRACTOR'S INFORMATION ONLY. ANY INTERPRETATIONS OR CONCLUSIONS DRAWN BY THE CONTRACTOR FROM THEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL EXERCISE CARE AND SAFETY WHEN WORKING NEAR EXISTING UTILITIES ON SITE INCLUDING EXISTING WATER MAINS AND APPURTENANCES, GAS LINES AND ELECTRICAL UTILITIES, AND SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE, BREAKAGE, OR LEAKS CAUSED BY THE CONTRACTOR'S WORK.

- THE CONTRACTOR SHALL RESTORE THE GROUND SURFACE OF EXCAVATED AREAS TO ORIGINAL GRADE AS REASONABLY POSSIBLE UNLESS OTHERWISE SHOWN OR DIRECTED.
- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES, STRUCTURES, FENCING, ETC. FROM DAMAGE. CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ANY DAMAGE TO SUCH FACILITIES.
- THE ENGINEER HAS, BY SEARCH OF KNOWN RECORDS, ENDEAVORED TO LOCATE AND INDICATE ON THE PLANS ALL THE UTILITIES WHICH EXIST WITHIN THE LIMITS OF THE WORK. HOWEVER, THE ACCURACY OR COMPLETENESS OF THE UTILITIES ON THE DRAWINGS IS NOT GUARANTEED.
- STATIONS SHOWN ON THE DRAWINGS ARE ALONG OR ON A LINE NORMAL OR RADIAL TO THE CENTER LINE OF THE WATER LINE.
- ALL WATER LINES SHALL HAVE A MINIMUM OF THIRTY (30") INCHES OF COVER OR HAVE SUFFICIENT INSULATION TO PREVENT FREEZING, UNLESS OTHERWISE SHOWN. ALL RAW WATER LINES SHALL CROSS BELOW ANY POTABLE WATER CROSSINGS AND MAINTAIN AT LEAST 12-INCHES OF SEPARATION.
- ALL BURIED VALVES SHALL BE INSTALLED WITHIN A VALVE BOX AND VALVE STEM EXTENSION.
- WATER LINES SHALL BE PRESSURE TESTED AND DISINFECTED PER THE AWWA STANDARDS PRIOR TO PLACING THE NEW WATER PIPELINE INTO SERVICE.
- THE LOCATION OF AVAC VALVE REROUTING/OUTLET IS ONLY GENERALLY SHOWN. THE EXACT LOCATION OF VERTICAL RISER WILL BE DETERMINED IN THE FIELD BY TRINIDAD RANCHERIA STAFF.

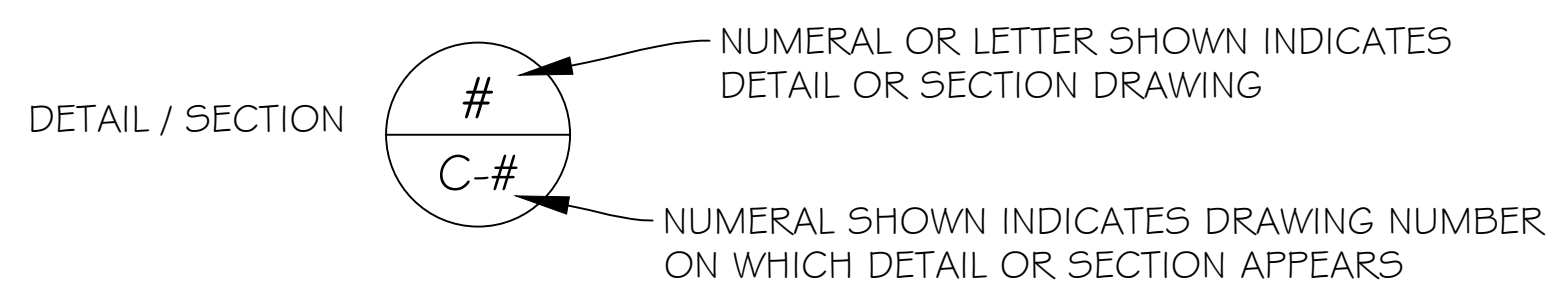
SURVEY CONTROL NOTES

- FOR PHASE III - PIPELINES AND WELLS PLANS HAVE A VERTICAL DATUM NAVD 88. BASED ON DEM DATA.
- FOR PHASE III - PIPELINES AND WELLS PLANS HAVE A HORIZONTAL DATUM NAD 83 CALIFORNIA STATE PLANES, ZONE 1 IN FEET. BASED ON DEM DATA.

CULTURAL MONITORING

- CULTURAL MONITORING IS REQUIRED UNDER THIS PROJECT AND CONTRACT AGREEMENT FOR ANY GROUND DISTURBING ACTIVITIES. DURING CONSTRUCTION, THE CONTRACTOR IS TO ADHERE TO THE REQUIREMENTS OF THE TRINIDAD RANCHERIA THPO AND CULTURAL MONITOR IN THE EVEN OF DISCOVERY OF SENSITIVE ITEMS AS DEFINED AND EXPLAINED HEREIN.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE RANCHERIA SEVENTY-TWO (72) HOURS PRIOR TO CONDUCTING GROUND DISTURBANCE ACTIVITIES.
3. CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH TRINIDAD RANCHERIA THPO TO ENSURE A TRINIDAD RANCHERIA CULTURAL MONITOR IS AVAILABLE DURING ANY GROUND DISTURBANCE ACTIVITIES.

REFERENCE



ABBREVIATIONS & SYMBOLS

AC	ASBESTOS - CEMENT PIPE
APPROX	APPROXIMATED
CL	CENTER LINE
CONC	CONCRETE
CTS	CATHODIC TEST STATION
CY	CUBIC YARDS
DI	DUCTILE IRON
DIAM	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
(E)	EXISTING
E	ELECTRIC, EAST
EG	EXISTING GROUND
ELEV	ELEVATION
FL	FLANGE
FT	FEET
GALV	GALVANIZED
HORIZ	HORIZONTAL
IN	INCHES
L	LENGTH
LF	LINEAL FEET
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
(N)	NEW
N	NORTH
NOM.	NOMINAL
NTS	NOT TO SCALE
No.	NUMBER
O.C.	ON CENTER
PC	START CURVE
PI	POINT OF INFLEXION
PT	END CURVE
PW	POTABLE WATER
R	RADIUS
Req'd	REQUIRED
SQ.FT.	SQUARE FEET
S	SOUTH
SS	STAINLESS STEEL
STA	STATION
STD.	STANDARD
TBD	TO BE DETERMINED
TR	CHER-AE HEIGHTS INDIAN COMMUNITY OF THE TRINIDAD RANCHERIA
TYP	TYPICAL
VERT	VERTICAL
W	WATER, WEST
W/	WITH
°	DEGREES
'	FEET OR MINUTES
"	INCHES OR SECONDS
&	AND
@	AT
Δ	DELTA ANGULE
Ø	DIAMETER
#	NUMBER
%	PERCENT



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA WATER TREATMENT FACILITY PROJECT PHASE I

PART III - PIPELINES AND WELLS
**GENERAL NOTES; SURVEY
CONTROL NOTES; CULTURAL
MONITORING; REFERENCE;
ABBREVIATIONS & SYMBOLS**

DATE: JUNE 13, 2025	DWG No. G-9 SHEET No. 43 OF 48
SCALE: NO TO SCALE	
PROJECT No.: 2789-003	



NOTES:
1. TOPOGRAPHIC FIELD DATA GENERATED FROM USGS DEM DATA.

DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

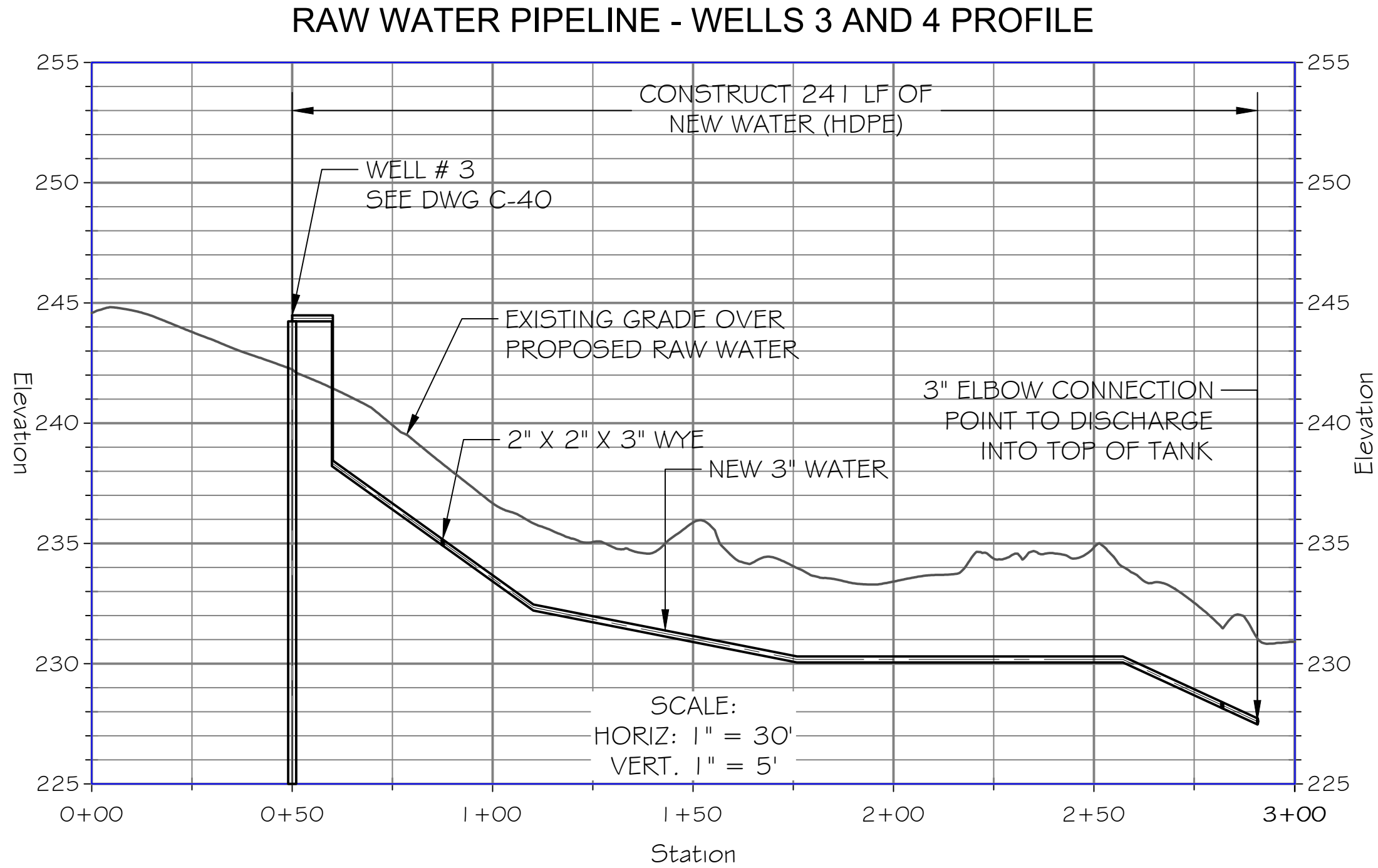
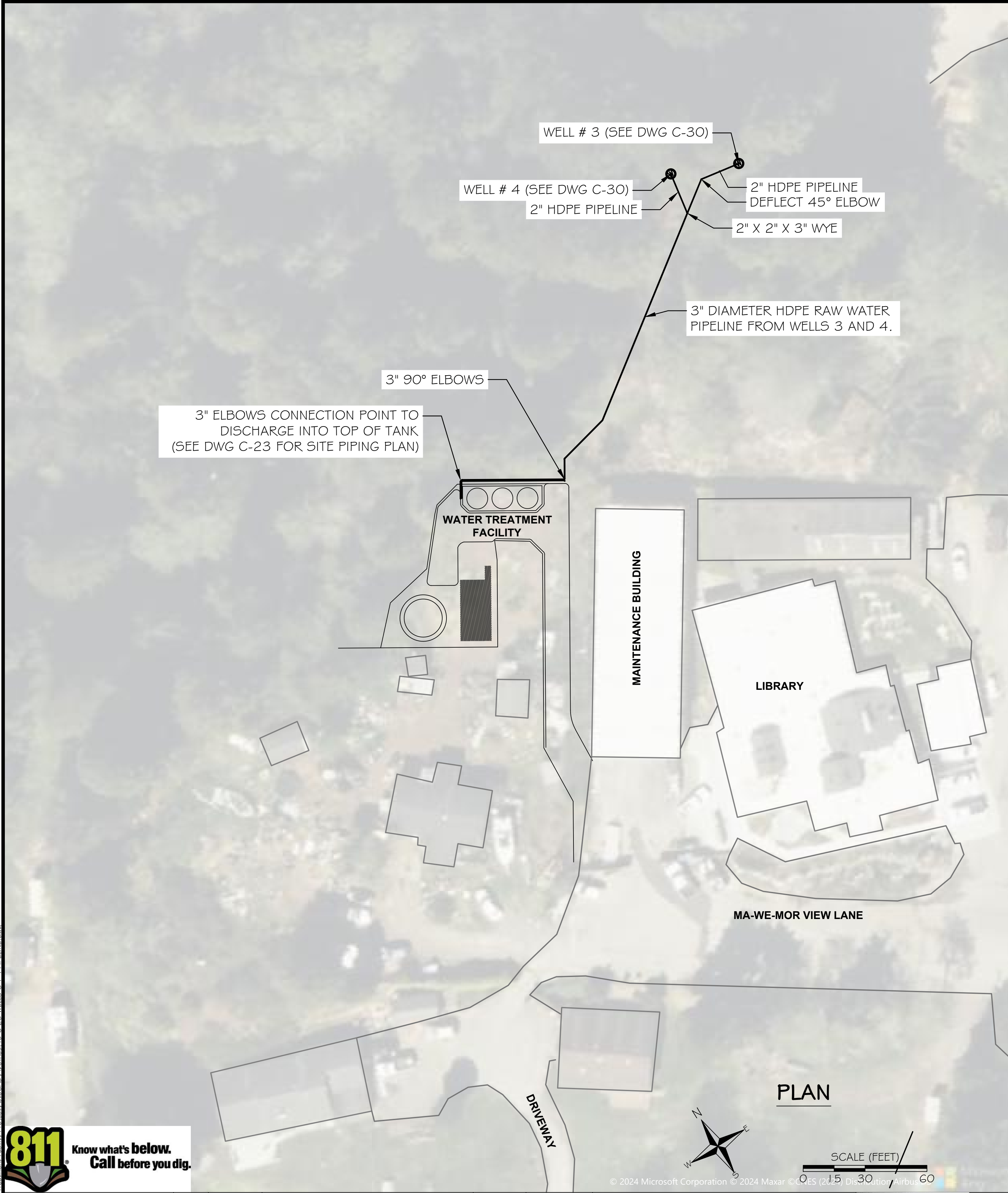


TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I


PART III - PIPELINES AND WELLS
PIPELINES KEY PLAN

DATE: JUNE 13, 2025
SCALE: 1" = 60'
PROJECT No.: 2789-003

DWG No. **G-10**
SHEET No. **44 OF 48**



DESIGNED:	A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. / T.Z. / R.F.					
CHECKED:	A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701

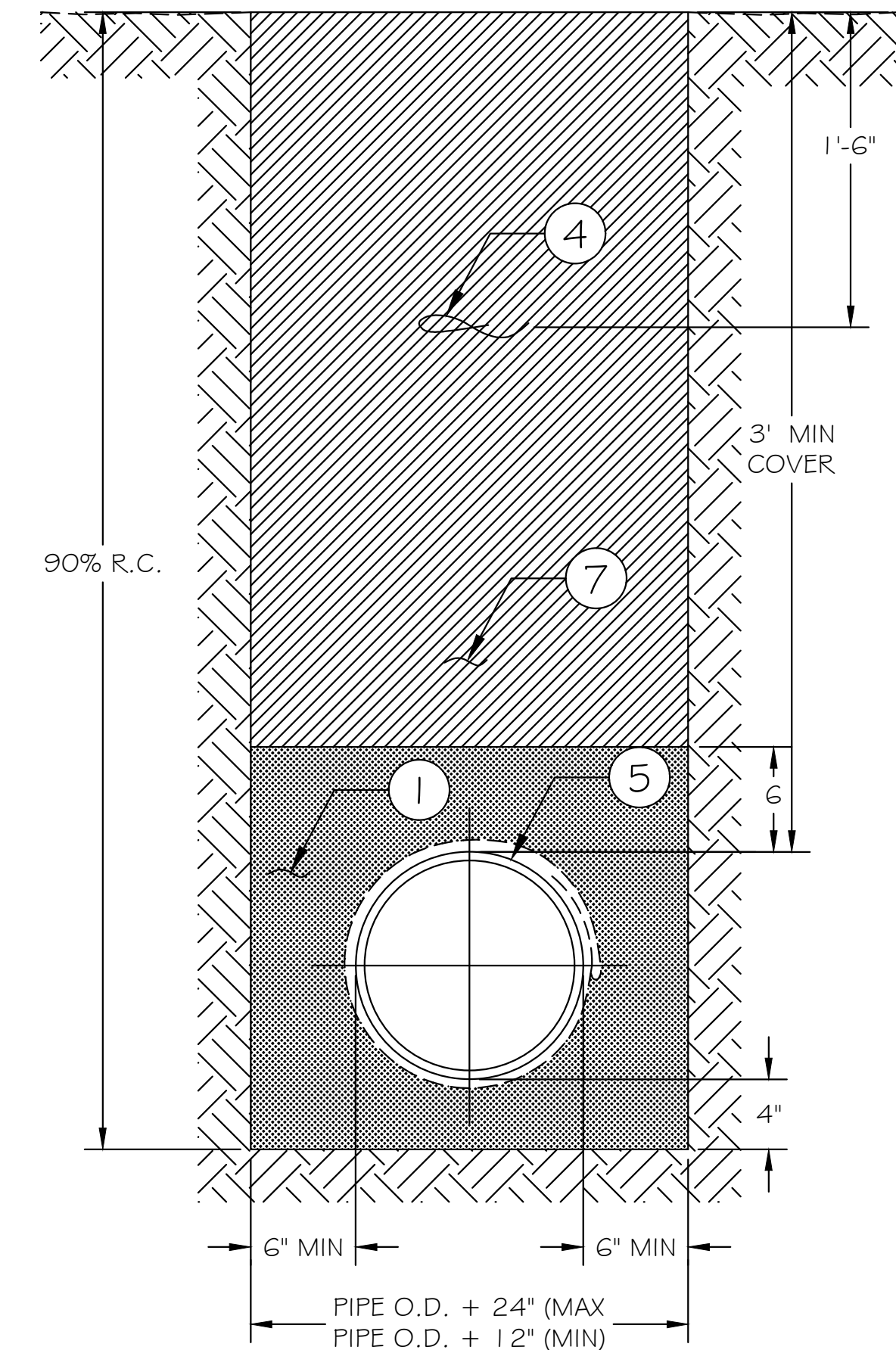
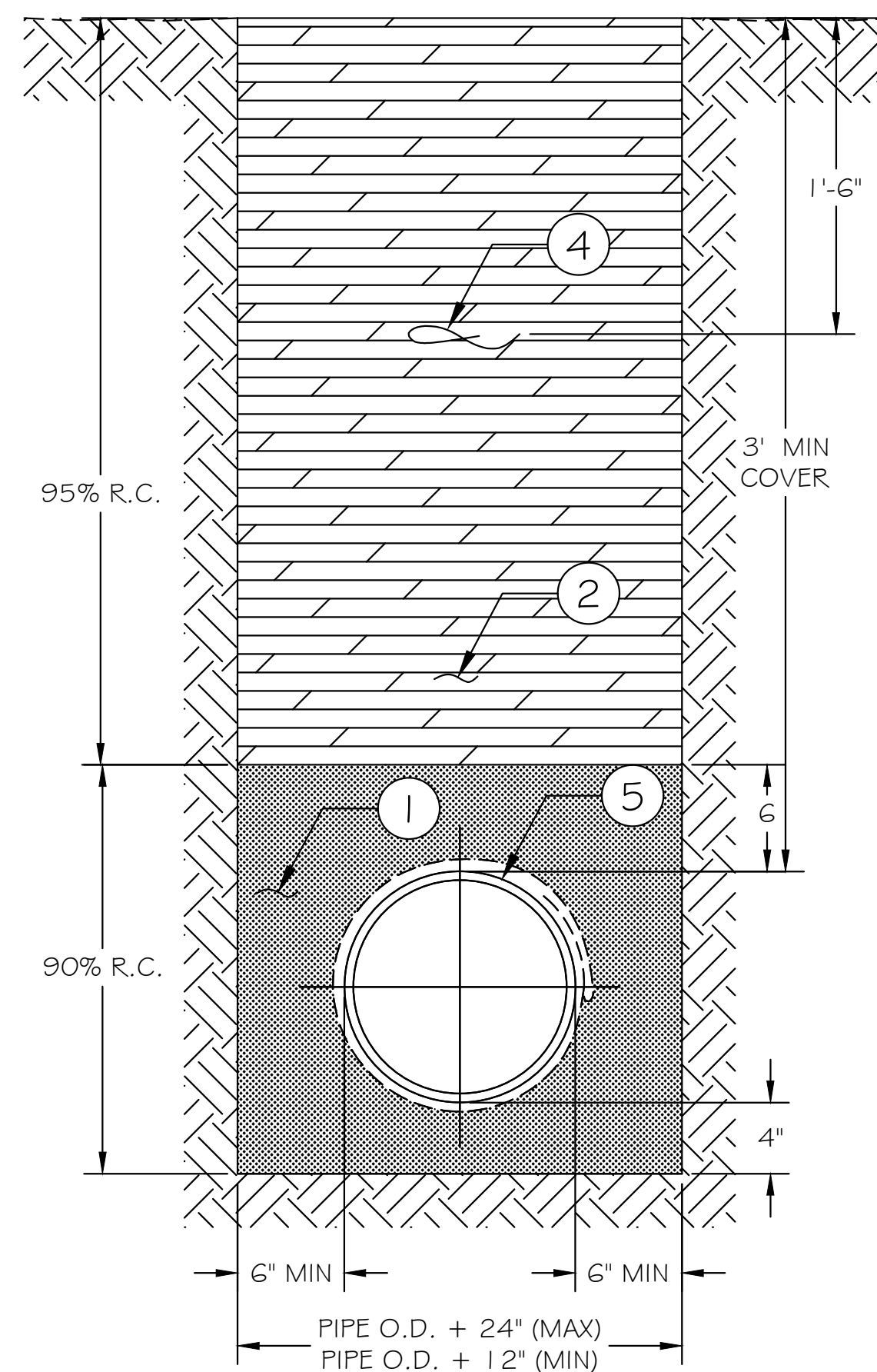
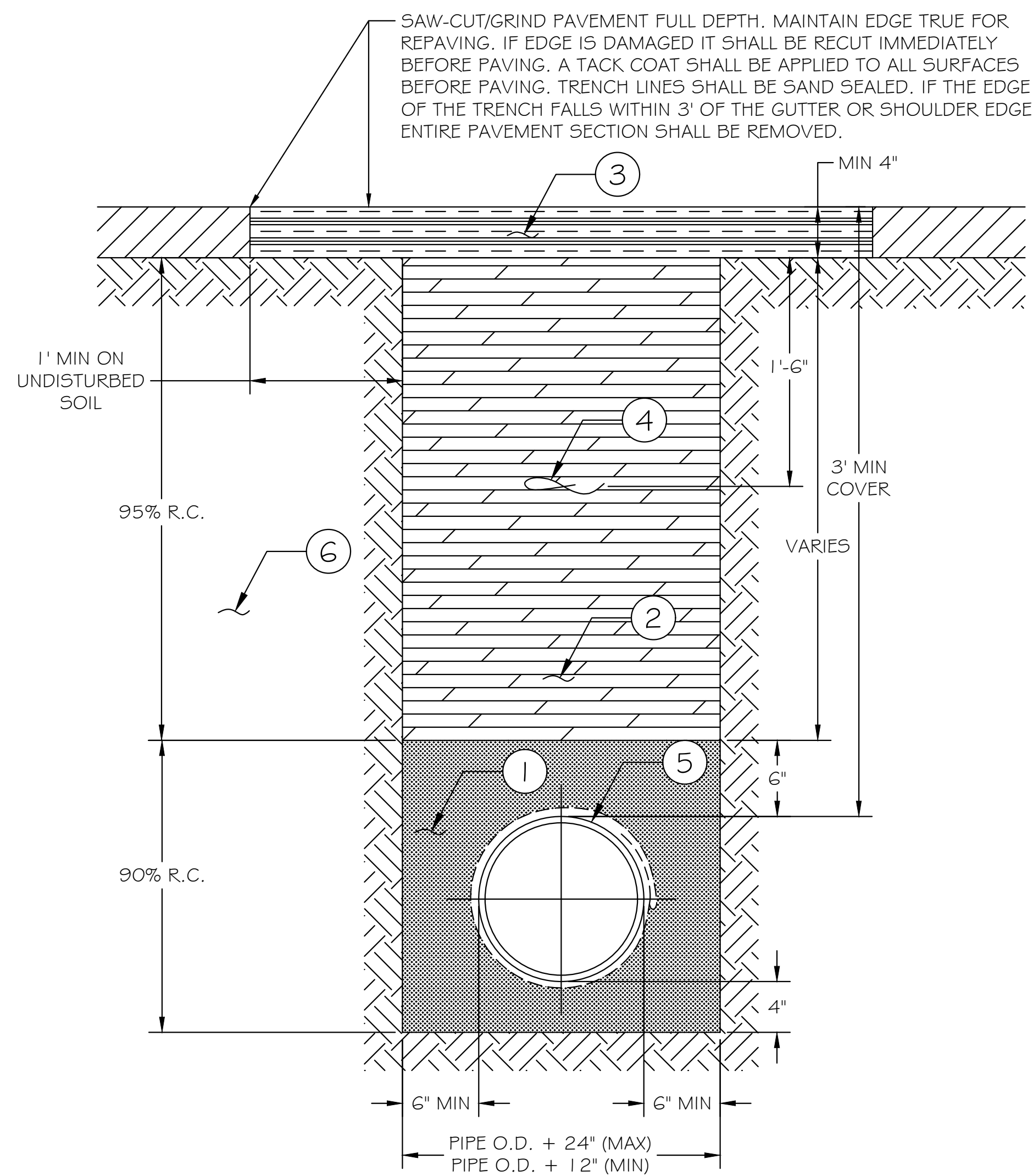


TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I


PART III - PIPELINES AND WELLS
RAW WATER PIPELINES FROM
WELLS 3 AND 4

DATE:	JUNE 13, 2025
SCALE:	AS INDICATED
PROJECT No.:	2789-003


DWG No.	C-28
SHEET No.	45 OF 48



TRENCH SECTION - TYPE A -
PAVED SURFACES
NOT TO SCALE



TRENCH SECTION - TYPE B -
GRAVELED AREAS / ROAD
SHOULDERS
NOT TO SCALE



TRENCH SECTION - TYPE C -
UNIMPROVED AREAS
NOT TO SCALE

LEGEND:

- 1 UTILITY SAND BEDDING AND BACKFILL MATERIAL SHALL BE COMPACTED TO 90% RELATIVE COMPACTION.
- 2 CLASS 2 AGGREGATE BASE BACKFILL MATERIAL SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
- 3 ASPHALT CONCRETE PAVEMENT THICKNESS SHALL BE REPLACED IN KIND BUT NOT LESS THAN 4".
- 4 MARKER TAPE TO BE INSTALLED 18" BELOW AC. REPLACE EXISTING TRACER WIRE IF DAMAGED DURING TRENCHING OPERATION.
- 5 3" HDPE FOR RAW WATER OR 6" HDPE FOR POTABLE WATER DR13.5 PIPE, UNLESS OTHERWISE NOTED.
- 6 A SECOND OPERATION IS REQUIRED PRIOR TO FINAL PAVING TO ACHIEVE THE "T" CUT SECTION. SAW CUTTING/GRINDING A WIDER TRENCH LINE DURING INITIAL TRENCH EXCAVATION TO ACHIEVE A "T" CUT SECTION WILL NOT BE ALLOWED.
- 7 NATIVE BACKFILL MATERIAL, SHALL BE COMPACTED TO 90% RELATIVE COMPACTION.



DESIGNED: A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED: G.T. / T.Z. / R.F.					
CHECKED: A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

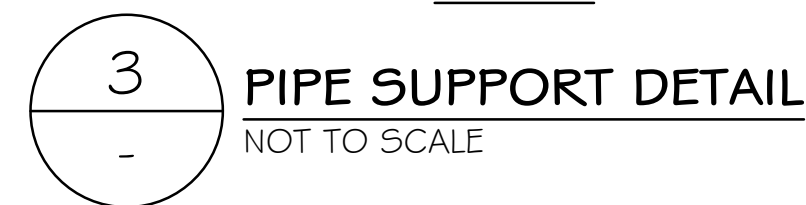
PART III - PIPELINES AND WELLS

TRENCH REPLACEMENT DETAILS

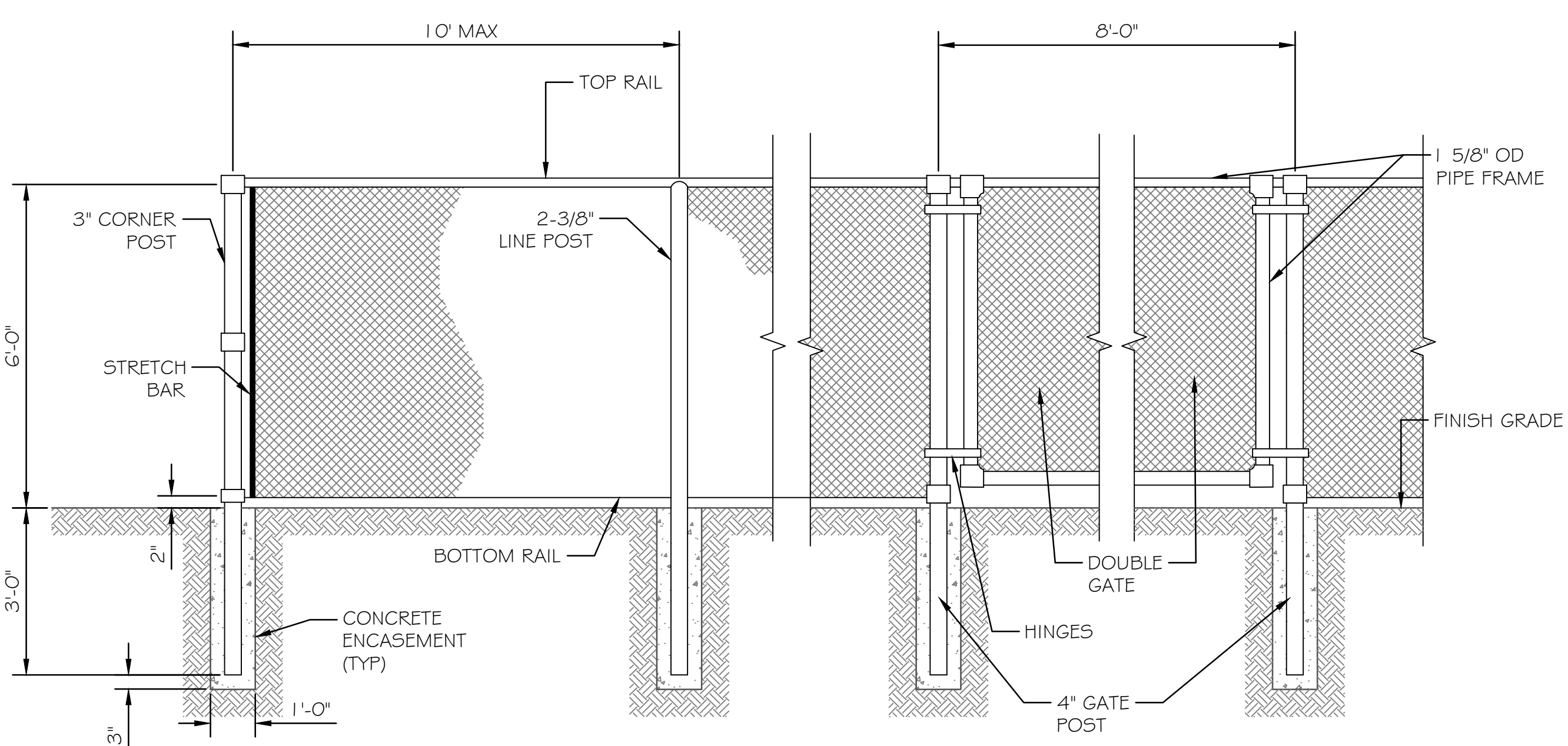
DATE: JUNE 13, 2025	DWG No. C-29
SCALE: AS INDICATED	SHEET No. 46 OF 48
PROJECT No.: 2789-003	



WELL NO.	DEPTH FROM SURFACE (FEET TO FEET)		CASING TYPE	MATERIAL	NOMINAL PIPE SIZE (INCHES)
1	0	53	BLANK	PVC	4.5
	53	73	SCREEN		
	73	80	BLANK		
2	0	22	BLANK	LOW CARBON STEEL	8
	22	32	SCREEN		
	32	35	BLANK		
3	0	20	BLANK	PVC	5
	20	40	SCREEN		
4	0	20	BLANK	PVC	5
	20	40	SCREEN		
5	0	60	BLANK	PVC	5
	60	80	SCREEN		
	80	100	BLANK		

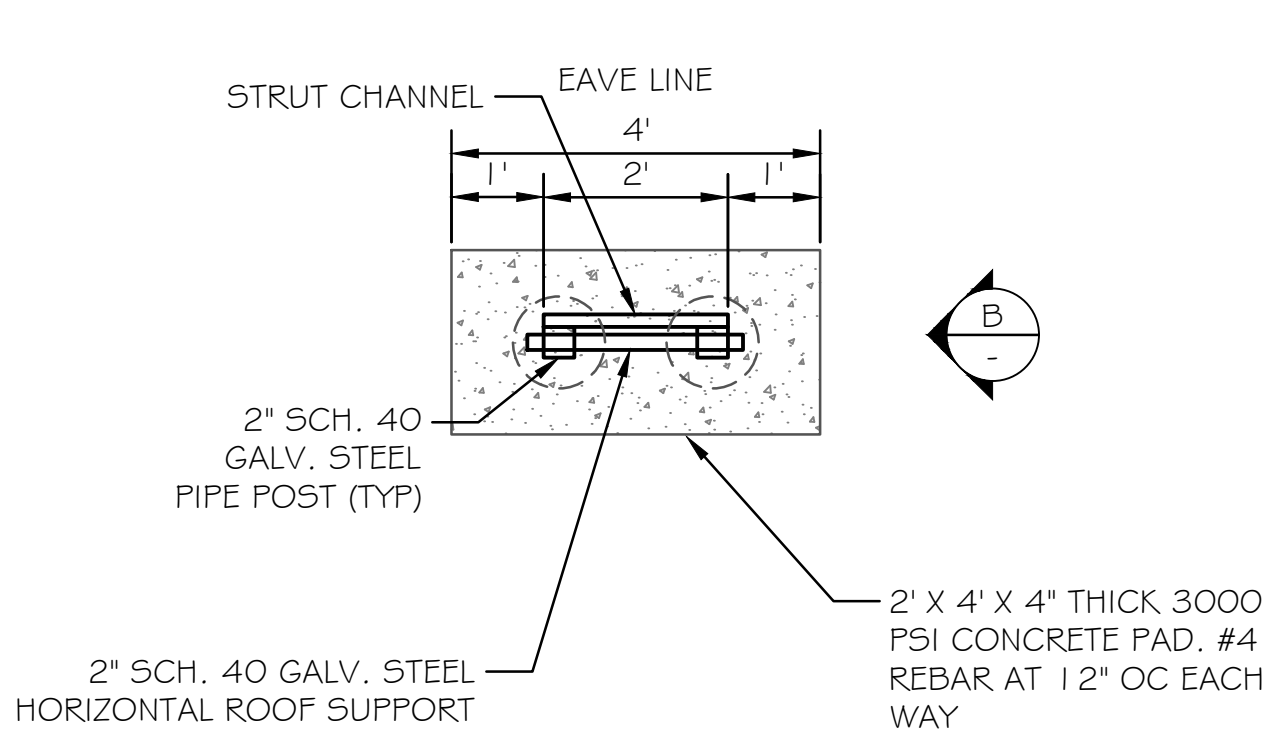


- ① 2" FLANGED DUCTILE CROSS.
- ② 1/2" SS PRESSURE GAUGE (0-200 PSI).
- ③ 3/4" HOSE BIB W/ #24 MESH SCREEN.
- ④ 1" AIR/VACUUM VALVE.
- ⑤ WELL VENT W/ #24 MESH SCREEN.
- ⑥ 2" UNION JOINT.
- ⑦ 2" WYE STRAINER.
- ⑧ 2" CHECK VALVE.
- ⑨ 2" FLOW METER.
- ⑩ 2" GATE VALVE.

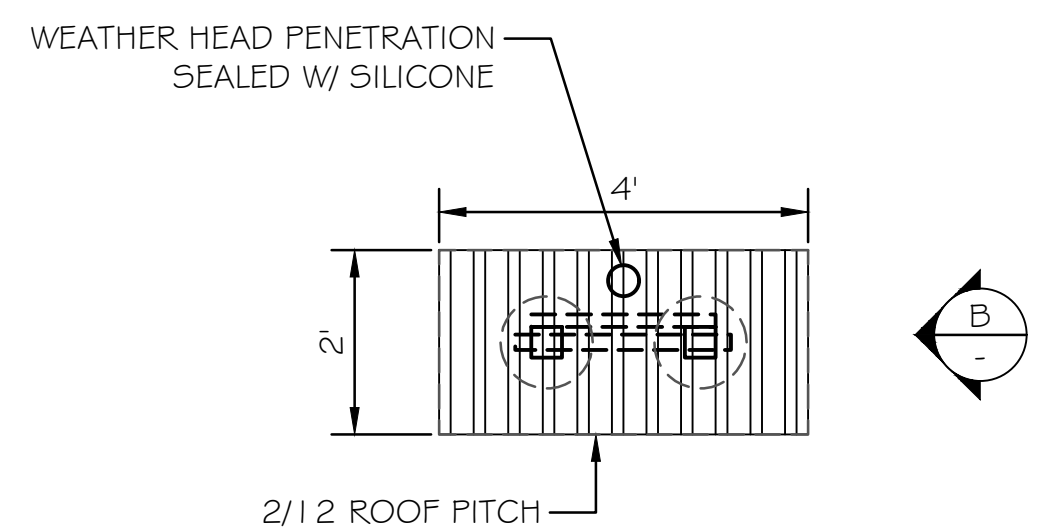


NOTES:
1. DOUBLE GATE SHALL HAVE A LOCKING MECHANISM, DROP ROD, AND TRUSS ROD.

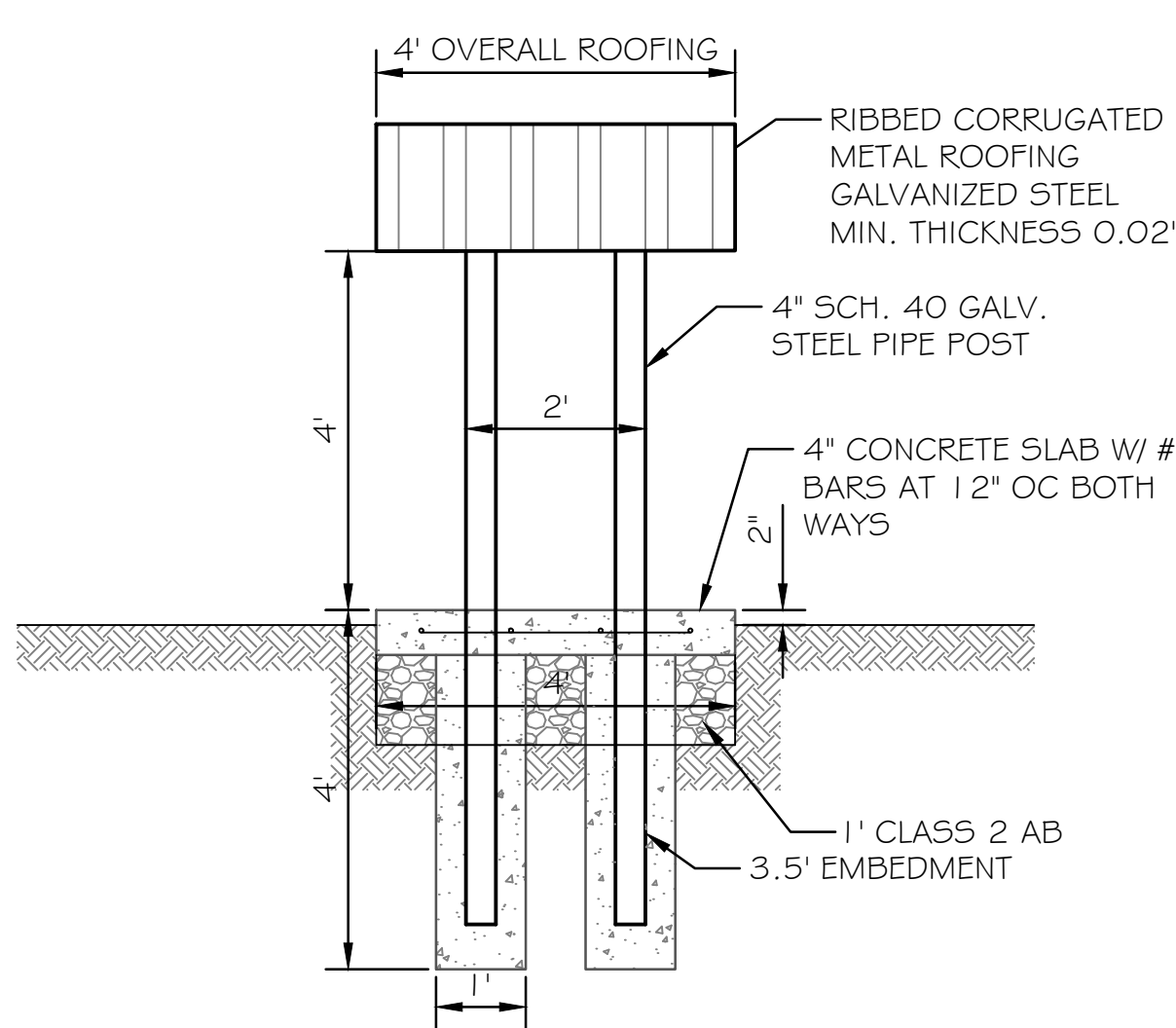
1
C-30 **CHAIN LINK FENCE AND GATE DETAIL**
NOT TO SCALE



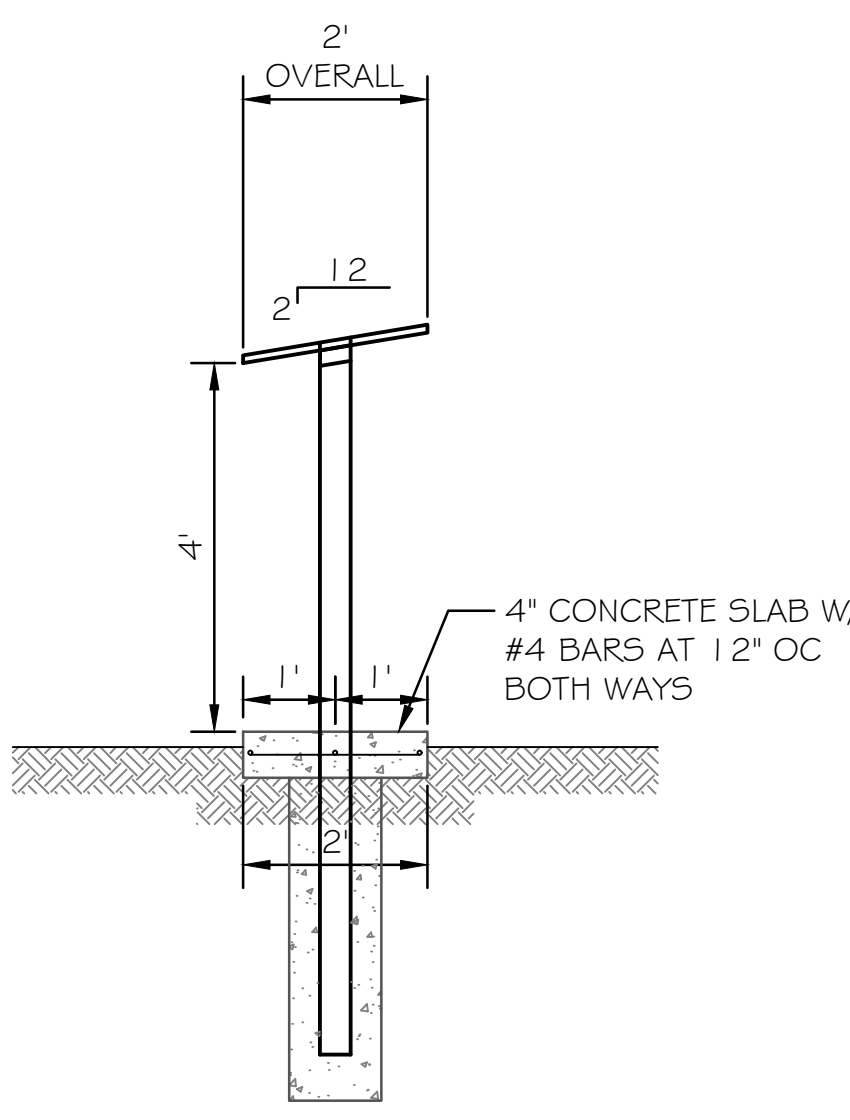
A
FRAMING PLAN



A
ROOF PLAN



ELEVATION A



ELEVATION B

2
C-30 **ELECTRICAL PANEL SHELTER DETAIL**
NOT TO SCALE



DESIGNED:	A.R. / R.F.	No.	DATE	REVISION	BY	APPROVED
DRAFTED:	G.T. / T.Z. / R.F.					
CHECKED:	A.R.					



Stetson Engineers Inc.
2171 E. Francisco Blvd., Suite K
San Rafael, CA. 94901
(415) 457-0701



TRINIDAD RANCHERIA
WATER TREATMENT FACILITY PROJECT
PHASE I

PHASE III - PIPELINES AND WELLS
**WELLS TYPICAL DETAILS
(CONTINUED)**

DATE:	JUNE 13, 2025
SCALE:	AS INDICATED
PROJECT No.:	2789-003

DWG No.	C-31
SHEET No.	48 OF 48