

GARBERVILLE SANITARY DISTRICT

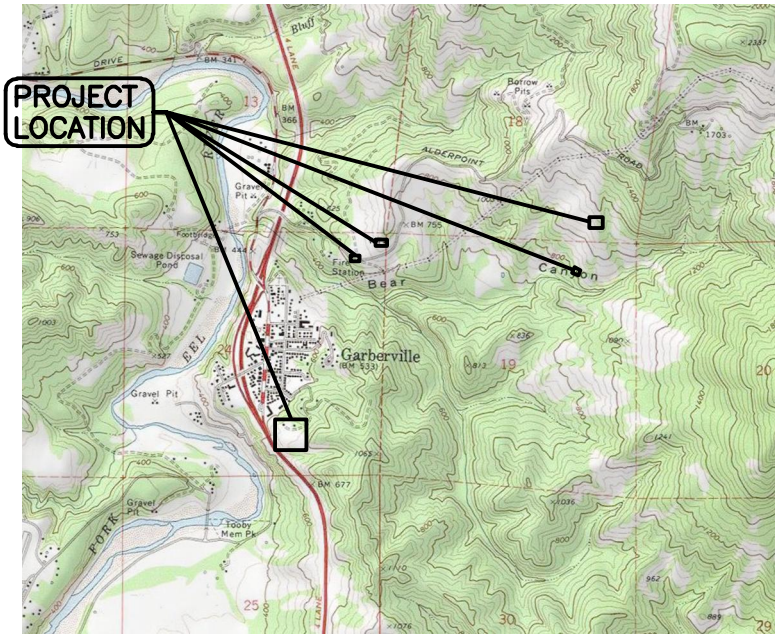
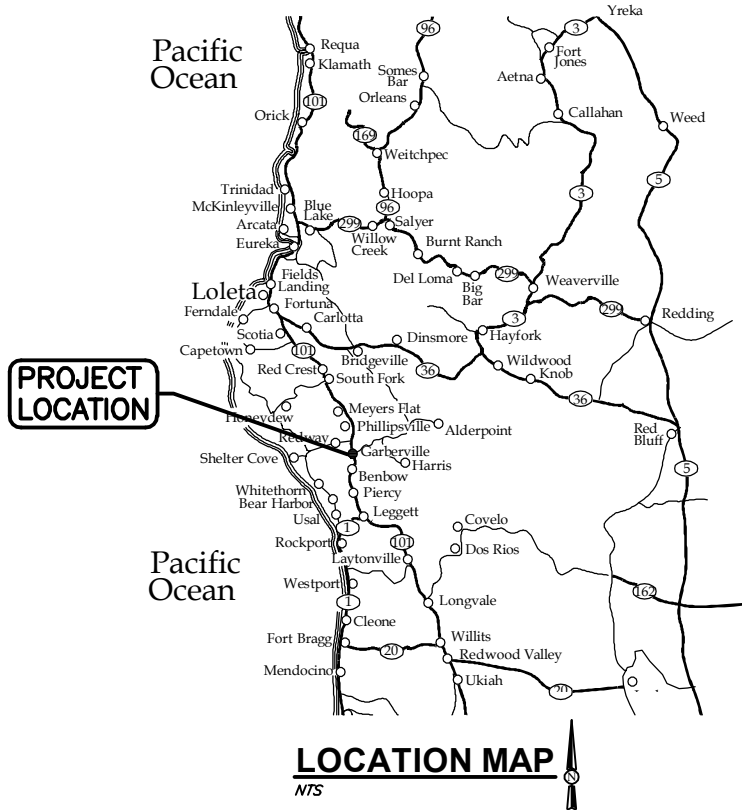
ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT PROJECT

GARBERVILLE, CALIFORNIA

PREPARED BY:



SEPTEMBER 2023



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* NOT INCLUDED IN 60% SUBMITTAL

60% DESIGN

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BY	REVISION	DATE	NO.

DSGN	CHK	APVD
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GARBERVILLE SANITARY DISTRICT
ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT
GARBERVILLE, CALIFORNIA

SHEET	G1.0
SEQ	
DATE	09/2023
PROJ. NO.	022067

ABBREVIATIONS

A	—	AGGREGATE
AGGR	—	APPROXIMATELY
APPROX	—	AT
⊙	—	
B	—	BUILDING
BLDG	—	
C	—	COMBINATION AIR VALVE
CAV	—	CLEAR
CLR	—	CENTERLINE
C	—	CLEANOUT
CO	—	CONCRETE
CONC	—	CONTINUOUS OR CONTINUED
CONT	—	CENTER
CTR	—	
D	—	DEGREE (ANGLE)
·	—	DROP INLET OR DUCTILE IRON
DI	—	DIAMETER
DIA	—	DIMENSION
DIM	—	DETAIL
DET	—	DRAWING
DWG	—	
E	—	EXISTING
(E)	—	EXISTING GRADE/GROUND
EQ	—	ELBOW
EL	—	ELECTRIC OR ELECTRICAL
ELEC	—	ELEVATION
ELEV	—	EQUAL
EQ	—	EACH WAY
EW	—	EXISTING
EXST	—	
F	—	FOUNDATION
FDN	—	FINISHED GRADE
FG	—	FIRE HYDRANT
FH	—	FLOW LINE
FL	—	FLOOR
FLR	—	FOOT OR FEET
FT	—	
G	—	GAGE
GA	—	GALLON
GAL	—	GALLONS PER MINUTE
GPM	—	GRADE OR GROUND
GRD	—	GATE VALVE
GV	—	
H	—	HIGH DENSITY POLYETHYLENE
HDPE	—	HORIZONTAL
HOR	—	HEIGHT
HT	—	
I	—	INSIDE DIAMETER
ID	—	INVERT
INV	—	
L	—	POUND
LB	—	LINEAR FEET
LF	—	LEFT
LT	—	
M	—	MATERIAL
MATL	—	MAXIMUM
MAX	—	MECHANICAL
MECH	—	MANUFACTURER
MFR	—	MINIMUM OR MINUTE
MIN	—	MECHANICAL JOINT
MJ	—	
N	—	NEW
(N)	—	NUMBER OR NORMALLY OPEN
NO	—	NOT TO SCALE
NTS	—	NUMBER
#	—	
O	—	ON CENTER
OC	—	OUTSIDE DIAMETER
OD	—	OVERHEAD
OH	—	
P	—	PERFORATED
PERF	—	PRESSURE RELIEF VALVE
PRV	—	POUNDS PER SQUARE INCH
PSI	—	POLYVINYL CHLORIDE PLASTIC
PVC	—	
Q	—	QUANTITY
QTY	—	
R	—	RADIUS
R	—	RELATIVE COMPACTION
RC	—	ROAD
RD	—	RESTRAINED FLANGE COUPLING ADAPTER
RFCA	—	ROCK SLOPE PROTECTION
RSP	—	RIGHT OR RING TIGHT
RT	—	RIGHT OF WAY
R/W	—	
S	—	SLOPE
SL	—	SCHEDULE
SCHED	—	STORM DRAIN
SD	—	SQUARE FOOT/FEET
SF	—	SHEET
SHT	—	SIMILAR
SIM	—	STATION
STA	—	
T	—	TOTAL DYNAMIC HEAD
TDH	—	TYPICAL
TYP	—	
U	—	UTILITY
UTIL	—	
V	—	VARIES
VAR	—	VERTICAL
VERT	—	VALLEY GUTTER
VG	—	
W	—	WATER OR WIDE FLANGE
W	—	WITH
W/	—	

UTILITIES LEGEND

PROPOSED

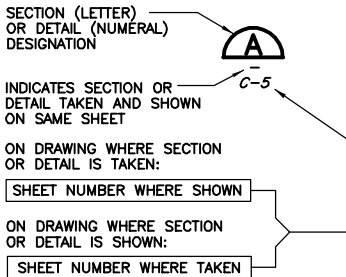
⌞	GATE VALVE
↯	CHECK VALVE
≡	DROP INLET
—SD—	STORM DRAIN LINE
—W—	WATER LINE

TOPOGRAPHIC LEGEND

PROPOSED

47.55	FINISH GRADE ELEVATION
	TOP OF CUT
	TOP OF FILL
200	CONTOUR LINE
* * * *	FENCE

DETAIL AND SECTION DESIGNATION



CURVE DATA

R	(RADIUS)
L	(LENGTH)
Δ	(DELTA)
T	(TANGENT)

NOTES

- CONTACT THE ENGINEER FOR SYMBOLS NOT LISTED.
- THIS IS A STANDARD SHEET, THEREFORE, SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET WHICH DO NOT APPEAR ON THE PLANS.
- SITE AND UTILITY SYMBOLS SHOWN ON THIS SHEET ARE NOT INTENDED TO REPRESENT THE PHYSICAL SCALE OR SHAPE OF ANY ITEMS. WHERE LARGE-SCALE PLANS ARE PRESENTED, THE SYMBOLS SHOWN HEREON MAY BE REPLACED BY DETAILS MORE SUITED TO THE DRAWING SCALE.

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO CURRENT CALIFORNIA BUILDING CODE.
- THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, SECTION, JOINT OR FITTING REQUIRED TO COMPLETE THE PROJECT. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION. EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF EXCAVATION SHALL BE VERIFIED AS TO CONDITION, SIZE AND LOCATION BY UNCOVERING, PROVIDED SUCH IS PERMITTED BY LOCAL PUBLIC AUTHORITIES WITH JURISDICTION, BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL SECURE NECESSARY PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR SHALL PERFORM TRENCH WORK IN CONFORMANCE WITH CAL/OSHA REQUIREMENTS.
- CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, GENERAL CONTRACTOR WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. ALL WORK AND EQUIPMENT SHALL COMPLY WITH CAL/OSHA REQUIREMENTS. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR SHALL INDEPENDENTLY REVIEW GROUND TOPOGRAPHY AND TREE CONDITIONS THROUGHOUT THE SITE, AND ASSUME THE RISK OF COMPLETING THE WORK SET OUT ON THESE PLANS, REGARDLESS OF ROCK, WATER TABLE OR OTHER CONDITIONS WHICH MAY BE ENCOUNTERED IN THE COURSE OF THE WORK.
- ANY DISCREPANCY DISCOVERED BY THE CONTRACTOR IN THESE PLANS, OR ANY FIELD CONDITIONS DISCOVERED BY THE CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK SHOWN HEREIN SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE ENGINEER IMMEDIATELY UPON DISCOVERY. SAID NOTIFICATION SHALL BE IN WRITING.
- ALL UNDERGROUND IMPROVEMENTS SHALL BE INSTALLED TESTED AND APPROVED PRIOR TO PAVING.
- THE CONTRACTOR SHALL NOT BEGIN EXCAVATING UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD. THE CONTRACTOR SHALL NOTIFY EACH APPLICABLE ENTITY AT LEAST 48 HOURS PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) TWO WORKING DAYS BEFORE DIGGING AT (800) 227-2600 FOR LOCATES.
- GRADING AND CONSTRUCTION CONTRACTORS SHALL STOP WORK AND NOTIFY THE OWNER AND THE ENGINEER IF CULTURAL RESOURCES ARE DISCOVERED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE THE INSPECTOR 48 HOURS ADVANCE NOTICE OF ANY CONSTRUCTION OR REQUIRED TESTING.
- SHOULD THE CONTRACTOR OR ANY OF HIS AGENTS OR EMPLOYEES ENCOUNTER OR DISCOVER MATERIALS WHICH APPEAR TO BE HAZARDOUS DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY AND SUSPEND WORK IN THE AFFECTED AREA UNTIL THE ENGINEER HAS INSPECTED THE LOCATION AND MATERIALS IN QUESTION. SHOULD IT BE NECESSARY TO UNDERTAKE REMEDIATION, THE ENGINEER WILL GIVE WRITTEN NOTICE TO SUSPEND WORK IN THE AFFECTED AREA UNTIL THE PROPER COURSE OF ACTION HAS BEEN DETERMINED. OPERATIONS IN THE AFFECTED AREA SHALL BE RESUMED ONLY UPON WRITTEN NOTICE BY THE ENGINEER.
- ALL SITE GRADING WILL BE INSPECTED BY THE ENGINEER. COMPACTION TESTING WILL BE CONDUCTED AFTER SUFFICIENT DENSITIES HAVE BEEN ACHIEVED IN THE CONTRACTOR'S OPINION. THE CONTRACTOR SHALL MAKE ALL REQUESTS FOR MATERIALS TESTING AT LEAST 48 HOURS IN ADVANCE. ANY SOILS THAT FAIL TO MEET THE REQUIRED COMPACTION LEVELS SHALL BE REMOVED, AND RECOMPACTED. ALL COSTS ASSOCIATED WITH ACHIEVING COMPACTION STANDARDS SHALL BE INCLUDED IN THE CONTRACTOR'S ORIGINAL BID.
- THE TOPSOIL SHALL BE REMOVED FROM CUT AND FILL AREAS AND SHALL NOT BE USED FOR ENGINEERED FILL. TOPSOIL SHALL BE STOCKPILED SEPARATELY AND REPLACED OVER AREAS OF EXPOSED SUBGRADE TO A MINIMUM DEPTH OF 6 INCHES.
- NO CHANGES OR MODIFICATIONS SHALL BE MADE TO THESE PLANS WITHOUT WRITTEN APPROVAL BY THE ENGINEER.

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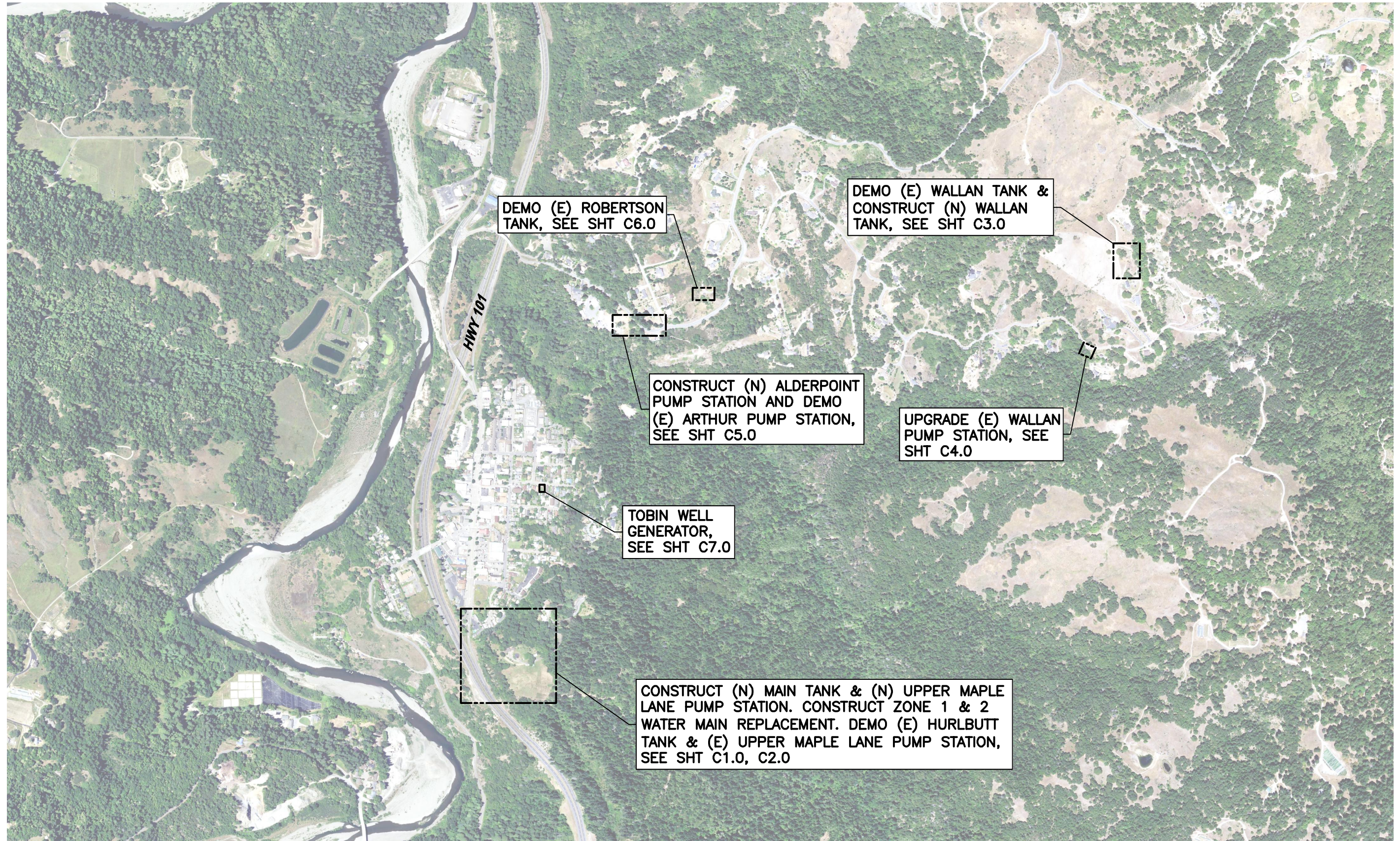
GARBERVILLE SANITARY DISTRICT
ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT
GARBERVILLE, CALIFORNIA

GENERAL NOTES

SHEET	G2.0
SEQ	
DATE	09/2023
PROJ. NO.	022067

60% DESIGN

SAVED: 9/28/2023 11:46 AM JFOSTER, PLOTTED: 10/4/2023 8:14 AM NEWELL, CHRIS
P.: Eureka | 2022 | 022067-GSD-Water | Dwg | 022067-PROJ-OVER.dwg



60% DESIGN

GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUITT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA		DSGN - DR CDN/JWF CHK JSO AP'D	NO. DATE REVISION BY	 812 W. WABASH AVE. EUREKA, CA. 95501 WWW.SHN-ENG.COM 707-441-8855	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING O 1" IF NOT ONE INCH ON SHEET, INDICATE SCALES ACCORDINGLY
SHEET G3.0					
SEQ DATE 09/2023 PROJ. NO. 022067					

SAVED: 9/28/2023 4:22 PM CNEWELL, PLOTTED: 10/14/2023 8:14 AM NEWELL, CHRIS
 F:\Eureka\2022\GSD-Water\Drugs\022067-SITE-ACCS.dwg



60% DESIGN

GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA		SITE ACCESS PLAN		SHEET G4.0	
PROJ. NO. 022067		DATE 09/2023		SEQ	
DSGN DR CDN/JWF CHK JSO APVD		NO.		DATE	
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SAVED: 9/29/2023 4:29 PM CNEWELL, PLOTTED: 10/14/2023 8:14 AM NEWELL, CHRIS
 F:\Eureka\2022\022067-GSD-Water\Draws\022067-MAIN-TANK-OVER.dwg



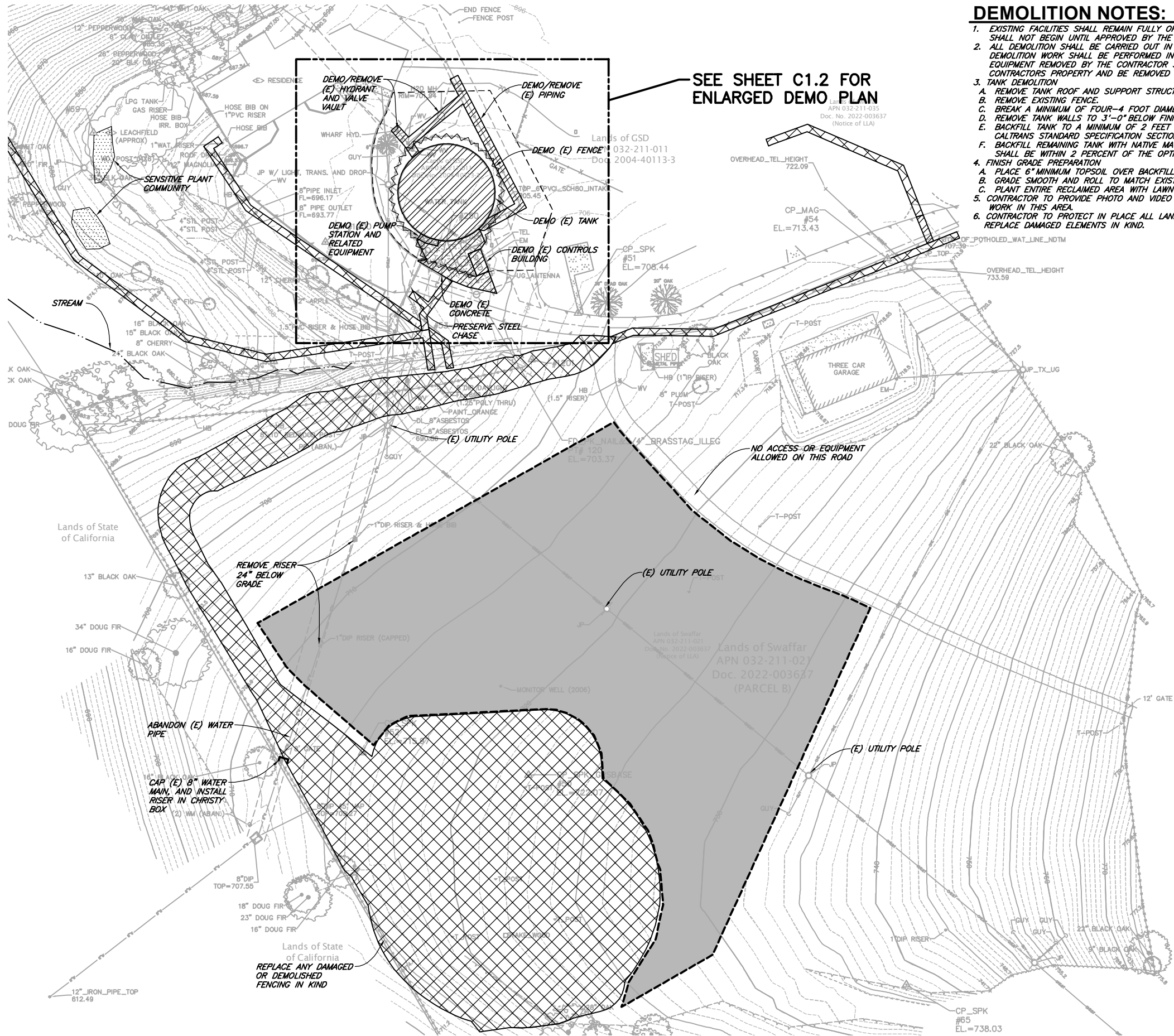
PLAN
 NTS



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GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUIT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA										SHEET C1.0		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
MAIN TANK OVERVIEW										SEQ			
DATE 09/2023													
PROJ. NO. 022067													
DSGN -		DR CDN/JWF		CHK JSO		APVD							
								NO.		DATE		REVISION	
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SAVED: 10/14/2023 9:34 AM CNEWELL, PLOTTED: 10/14/2023 9:35 AM NEWELL, CHRIS
F:\Eureka\2022\022067-GSD-Water\Draws\022067-HURLBUTT-TANK-ESCP.dwg



SEE SHEET C1.2 FOR
ENLARGED DEMO PLAN

DEMOLITION NOTES:

- EXISTING FACILITIES SHALL REMAIN FULLY OPERATIONAL UNTIL NEW FACILITIES ARE FULLY OPERATIONAL. DEMOLITION OF EXISTING FACILITIES SHALL NOT BEGIN UNTIL APPROVED BY THE OWNER AND THE ENGINEER.
- ALL DEMOLITION SHALL BE CARRIED OUT IN A MANNER WHICH WILL PREVENT INJURY TO WORKERS AND DAMAGE TO ADJACENT FACILITIES. DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND ORDINANCES. EXISTING MATERIALS AND EQUIPMENT REMOVED BY THE CONTRACTOR SHALL NOT BE REUSED IN THE WORK UNLESS OTHERWISE SPECIFIED, AND BECOME THE CONTRACTOR'S PROPERTY AND BE REMOVED FROM THE JOB SITE AND PROPERLY DISPOSED OF, EXCEPT AS NOTED BELOW.
- TANK DEMOLITION
 - REMOVE TANK ROOF AND SUPPORT STRUCTURE.
 - REMOVE EXISTING FENCE.
 - BREAK A MINIMUM OF FOUR-4 FOOT DIAMETER HOLES THROUGH TANK FLOOR TO PROVIDE DRAINAGE THROUGH TANK.
 - REMOVE TANK WALLS TO 3'-0" BELOW FINISHED GRADE. CONCRETE RUBBLE TO BE PACED EVENLY ACROSS TANK BOTTOM.
 - BACKFILL TANK TO A MINIMUM OF 2 FEET OVER TOP OF CONCRETE RUBBLE WITH CLASS 2 PERMEABLE MATERIAL IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATION SECTION 68-1.025.
 - BACKFILL REMAINING TANK WITH NATIVE MATERIAL TO 6" BELOW FINISHED GRADE. NATIVE MATERIAL TO BE PLACED IN 8-INCH LIFTS AND SHALL BE WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT. COMPACT NATIVE MATERIAL TO 90% RELATIVE COMPACTION.
- FINISH GRADE PREPARATION
 - PLACE 6" MINIMUM TOPSOIL OVER BACKFILL.
 - GRADE SMOOTH AND ROLL TO MATCH EXISTING CONTOURS.
 - PLANT ENTIRE RECLAIMED AREA WITH LAWN GRASS AND APPLY FERTILIZER AT MANUFACTURERS RECOMMENDED RATES.
- CONTRACTOR TO PROVIDE PHOTO AND VIDEO SURVEY OF PROPERTY TO DOCUMENT EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK IN THIS AREA.
- CONTRACTOR TO PROTECT IN PLACE ALL LANDSCAPING AND ARCHITECTURAL ELEMENTS. IF DAMAGE OCCURS, THE CONTRACTOR IS TO REPLACE DAMAGED ELEMENTS IN KIND.

LEGEND

- | | |
|--|----------------------------|
| | STAGING & STOCKPILING AREA |
| | CLEARING AND GRUBBING |
| | DEMOLITION |
| | SENSITIVE PLANT COMMUNITY |

PLAN
1"=30'

60% DESIGN

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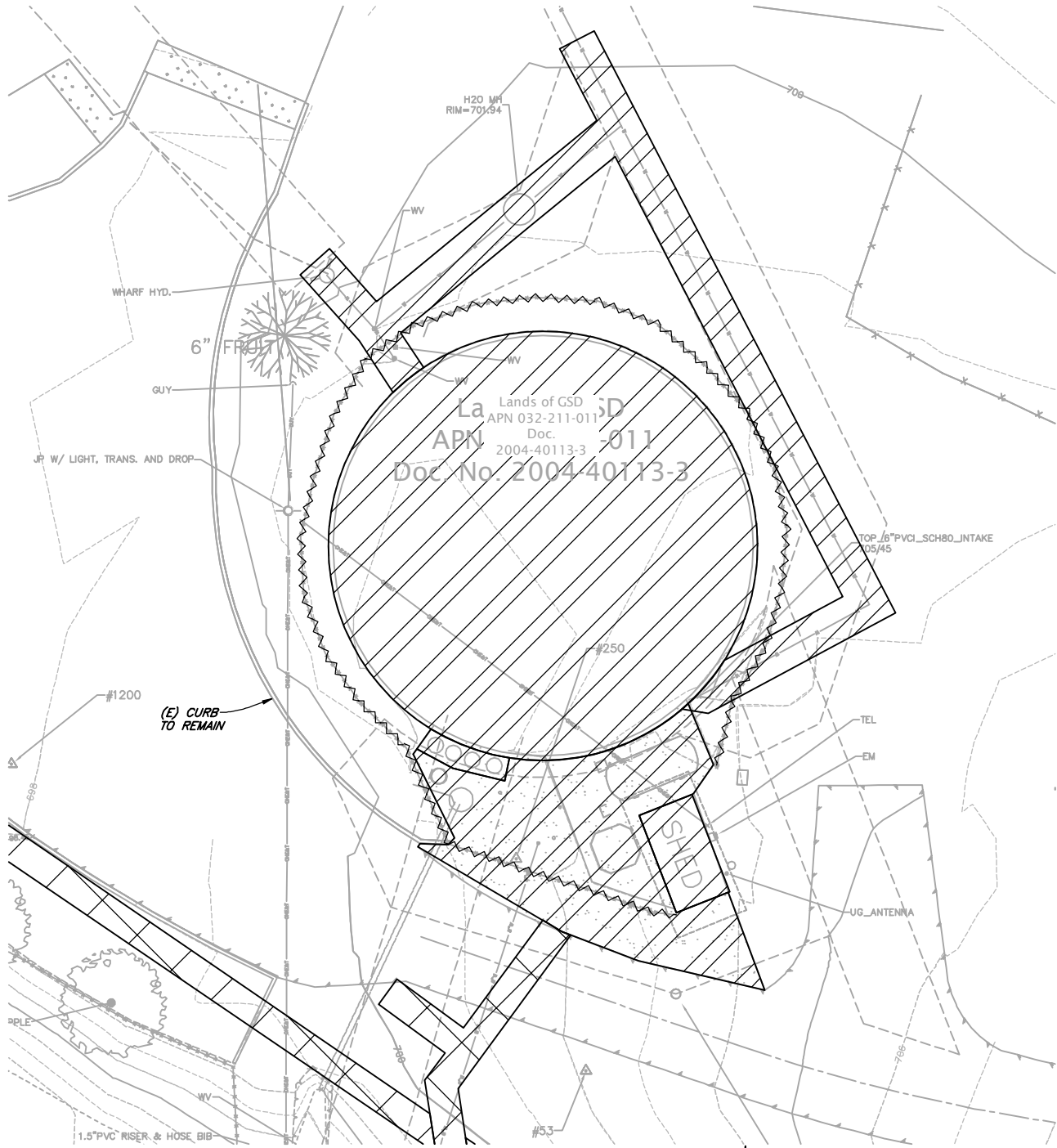
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DR	JWF/CDN
CHK	JSO
APVD	

GARBERVILLE SANITARY DISTRICT
ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT
GARBERVILLE, CALIFORNIA
MAIN TANK SITE PREPARATION AND DEMOLITION PLAN

SHEET
C1.1
SEQ
DATE 09/2023
PROJ. NO.
022067

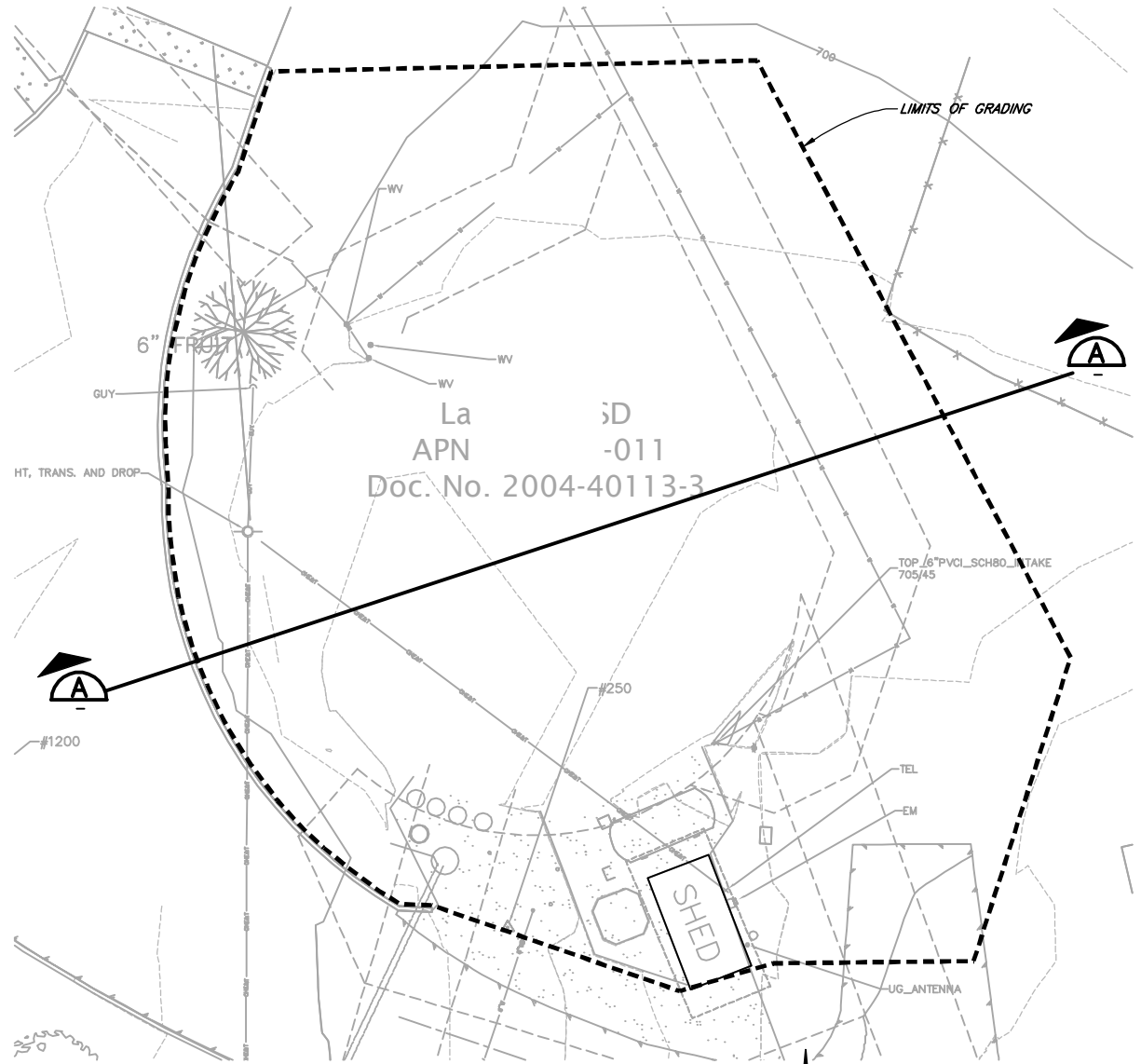
SAVED: 10/14/2023 9:34 AM CNEWELL, PLOTTED: 10/14/2023 9:36 AM NEWELL, CHRIS
 P:\Eureka\2022\022067-GSD-Water\Draws\022067-HURLBUTT-TANK-ESCP.dwg



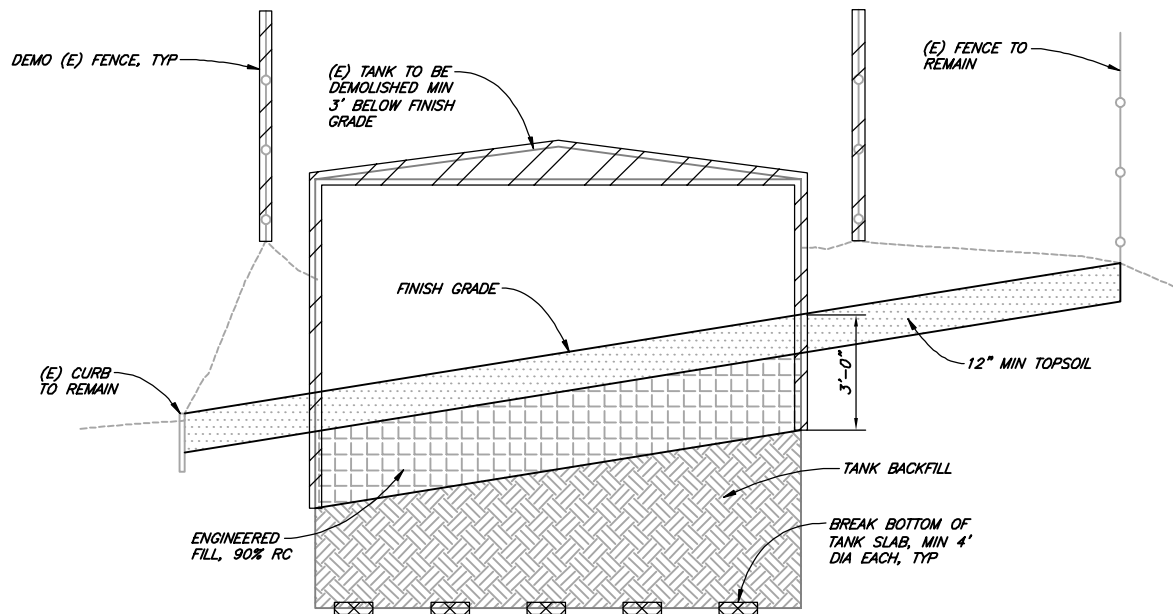
ENLARGED DEMOLITION PLAN
 1"=10'

LEGEND

-  CLEARING AND GRUBBING
 DEMOLITION



SITE RESTORATION PLAN
 1"=20'



SECITON A
 NTS

60% DESIGN

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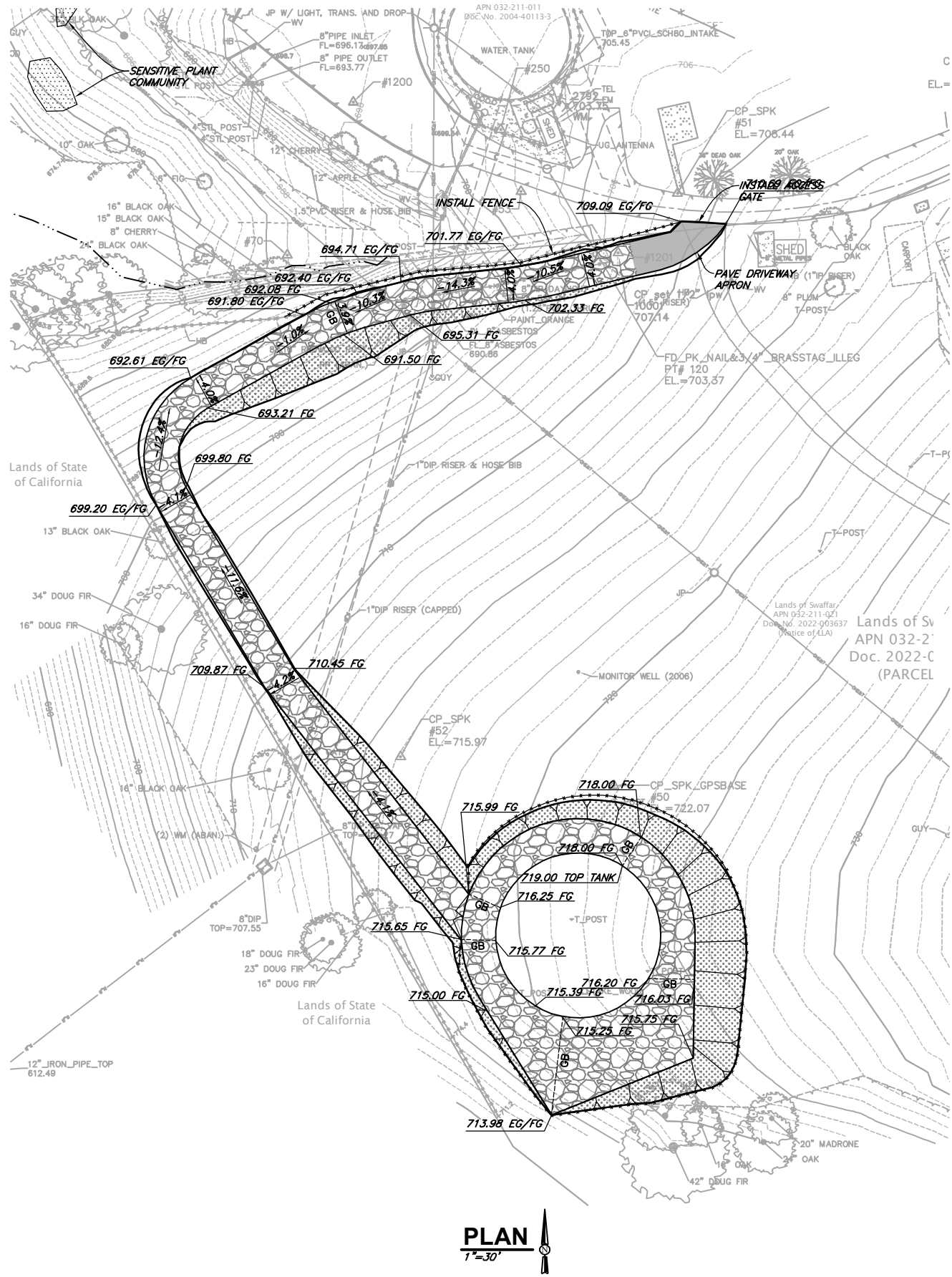
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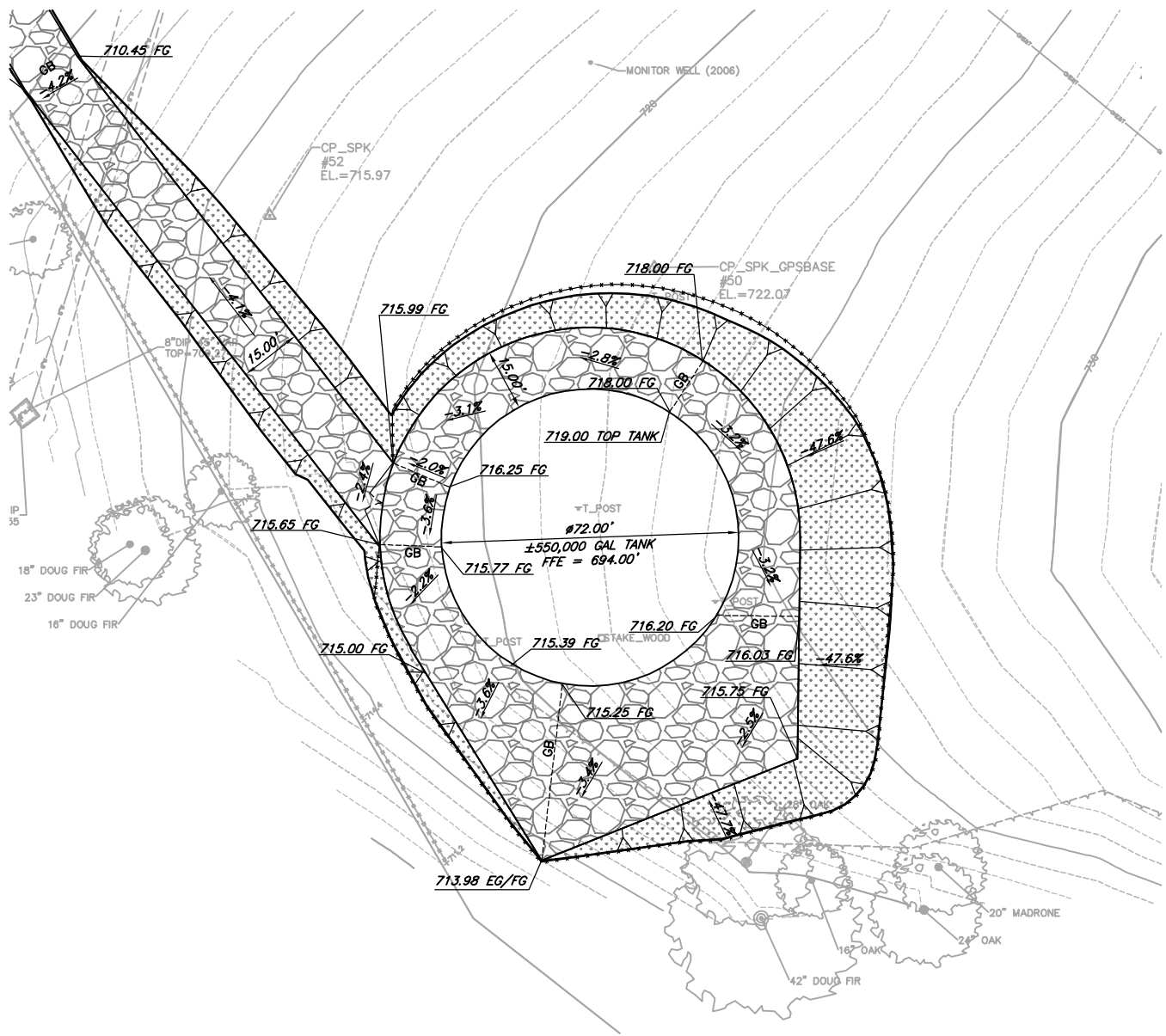
GARBERVILLE SANITARY DISTRICT
 ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT
 GARBERVILLE, CALIFORNIA
ENLARGED DEMOLITION AND RESTORATION PLAN

SHEET
C1.2
 SEQ
 DATE 09/2023
 PROJ. NO. 022067

SAVED: 9/29/2023 4:34 PM CNEWELL, PLOTTED: 10/14/2023 8:16 AM NEWELL, CHRIS
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PLAN
1"=30'



LEGEND

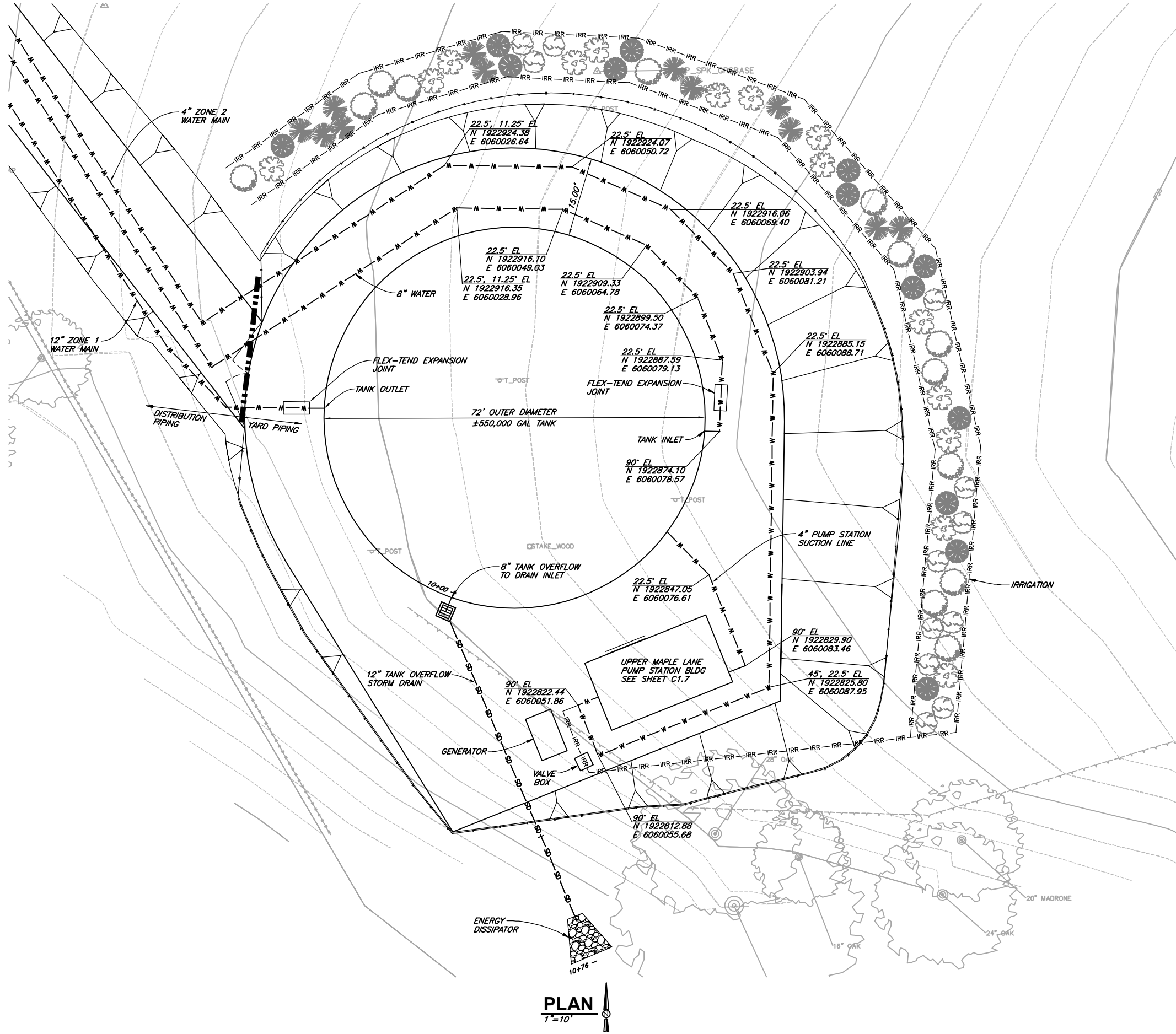
-  CLASS 2 AB AT 95% RC
-  AC PAVEMENT
-  EROSION CONTROL SEEDING/PLANTING

PLAN
1"=20'

60% DESIGN

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GARBerville SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBerville, CALIFORNIA	
MAIN TANK FINISH SURFACE MATERIALS	
SHEET C1.5	
SEQ	
DATE 09/2023	
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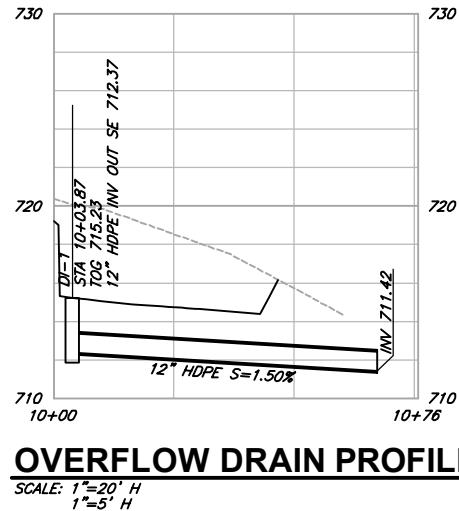
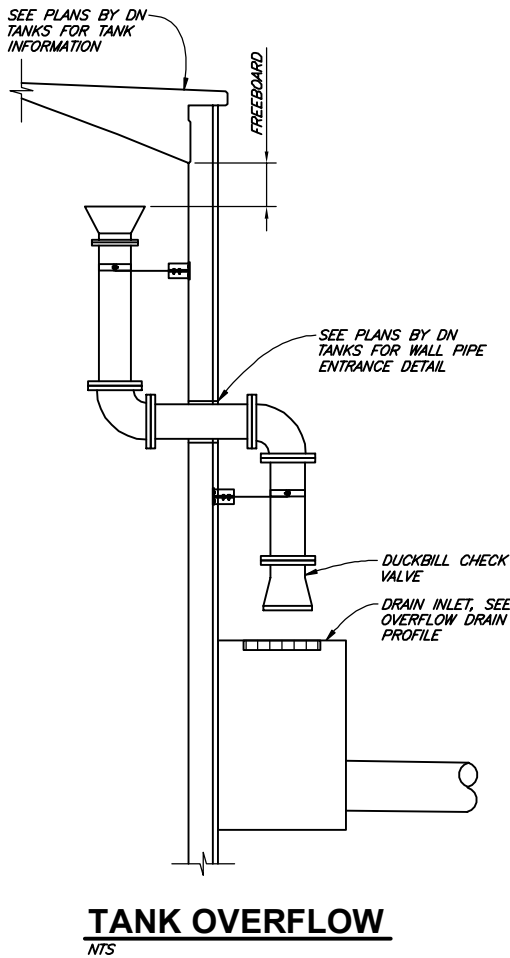
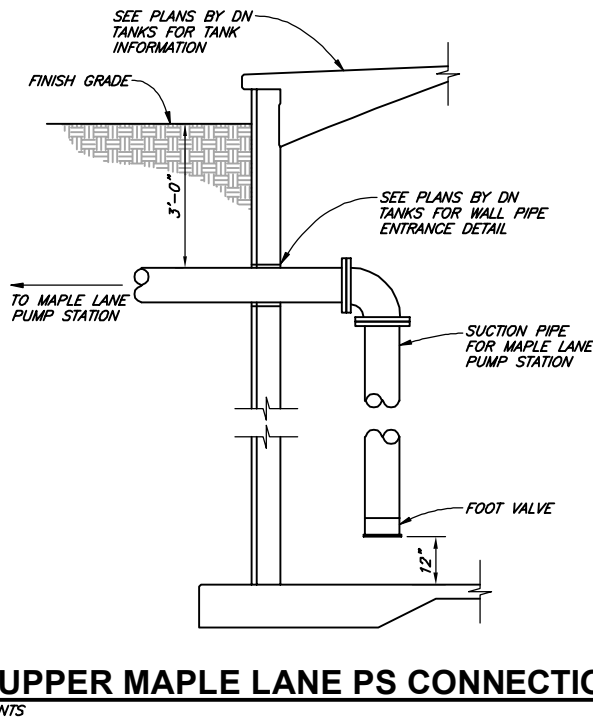
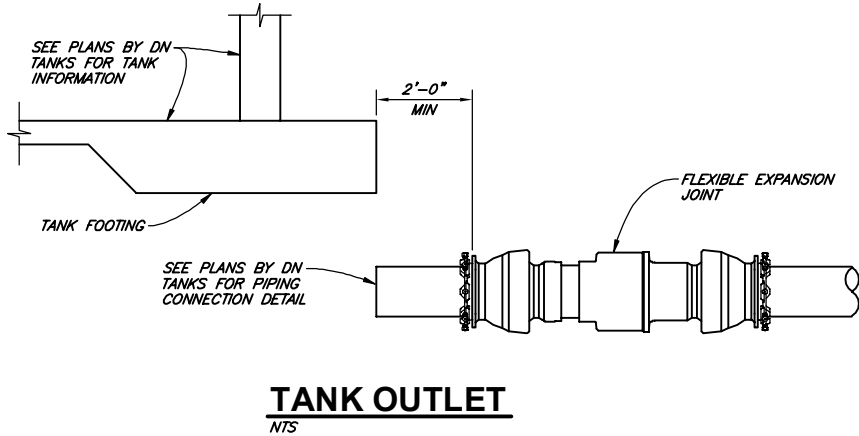
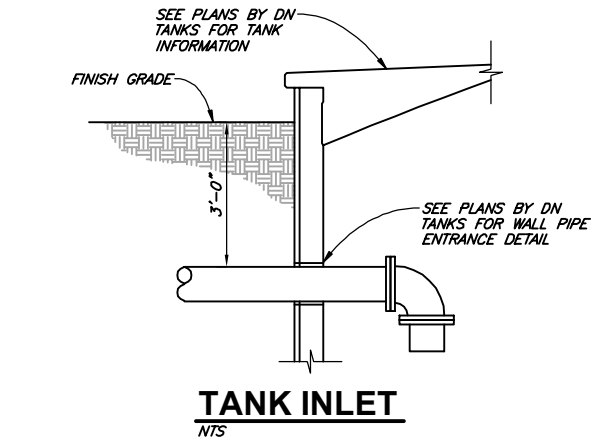
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F:\Eureka\2022\022067-GSD-Water\Draws\022067-HURLBUTT-TANK-YARD-PIPE.dwg



60% DESIGN

VERIFY SCALES		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGR.COM 707-441-8855	
BAS IS ONE INCH ON ORIGINAL DRAWING		1"	
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY			
DSGN		MM	BY
DR	JWF/CDN		
CHK	JSO	REVISION	
APVD		DATE	
		NO.	
GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA			
MAIN TANK SITE PLAN & YARD PIPING			
SHEET C1.6			
SEQ			
DATE 09/2023			
PROJ. NO. 022067			

SAVED: 9/29/2023 5:07 PM CNEWELL, PLOTTED: 10/14/2023 8:16 AM NEWELL, CHRIS
 P:\Eureka\2022\022067-GSD-Water\Draws\022067-HURLBUTT-TANK-YARD-PIPE.dwg



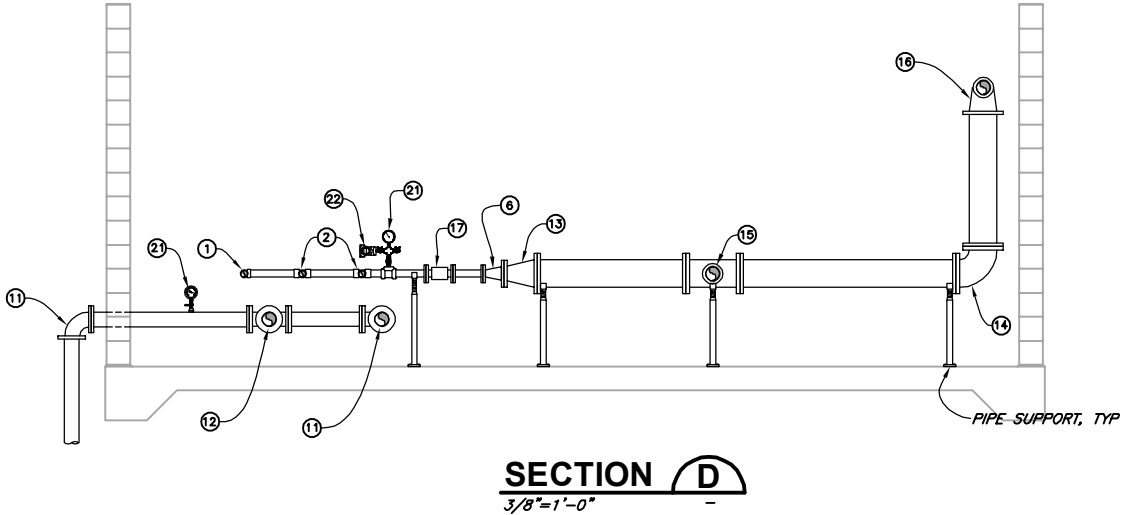
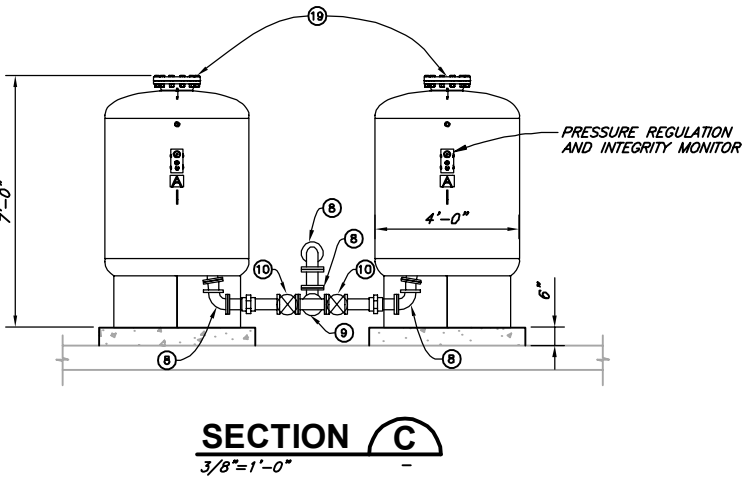
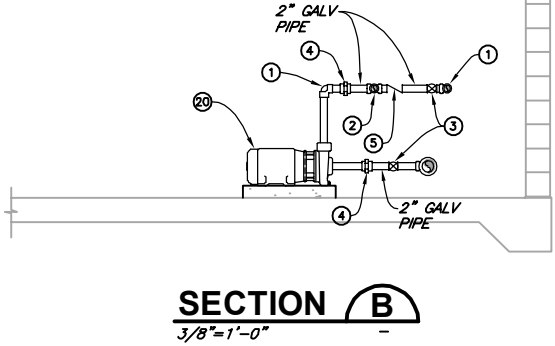
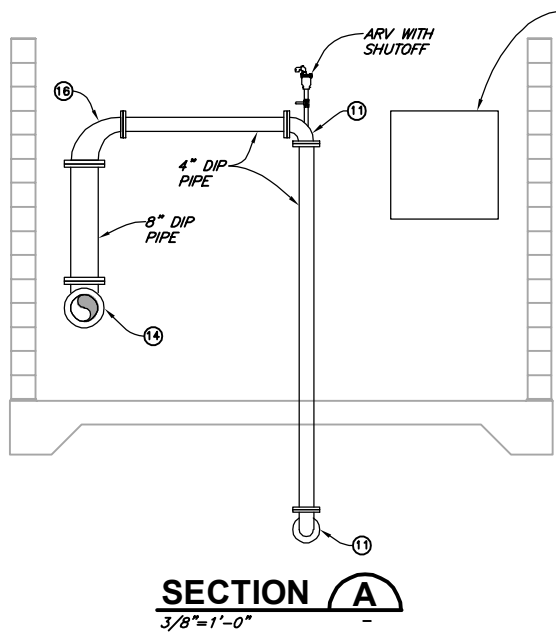
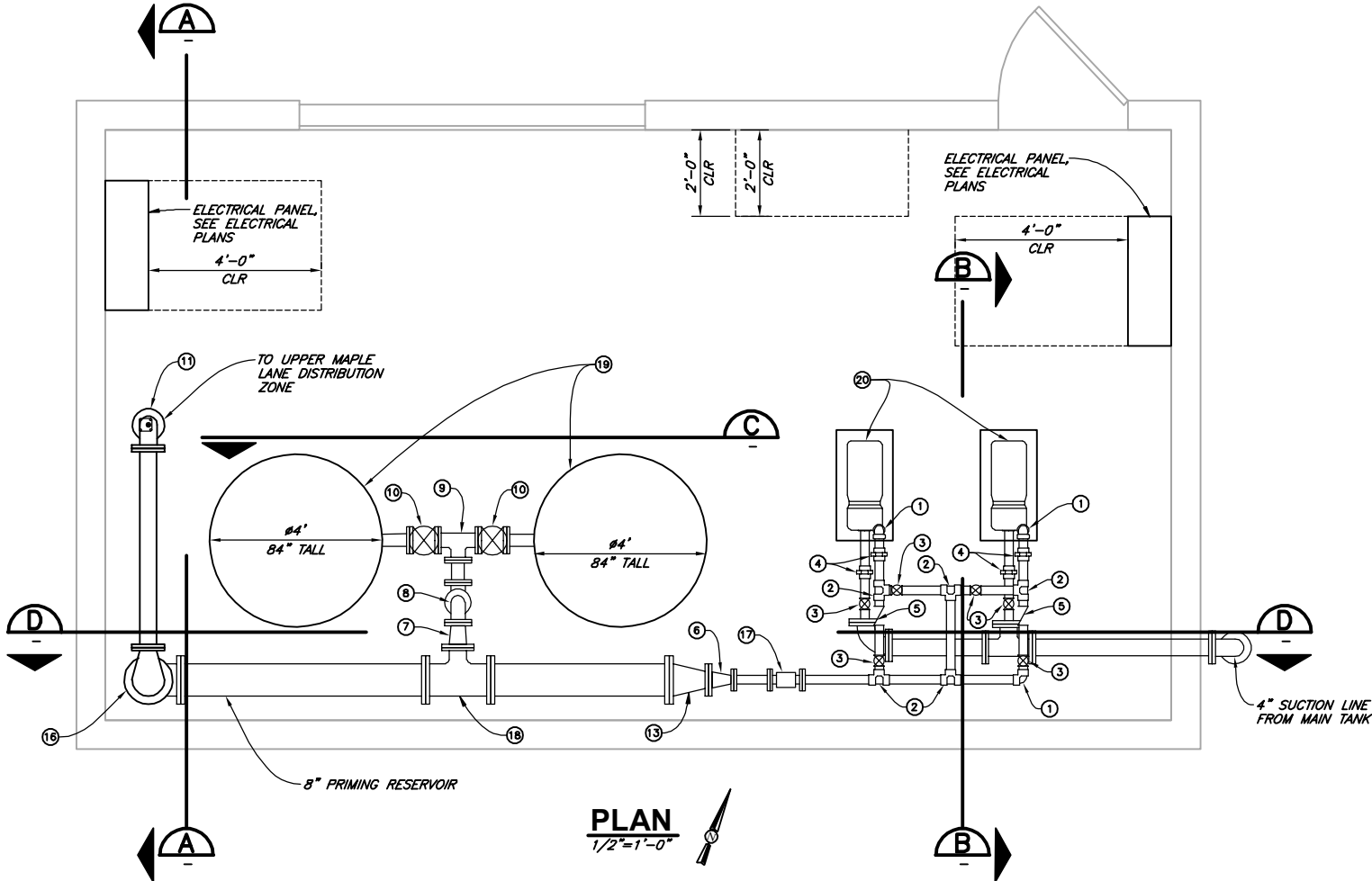
60% DESIGN

VERIFY SCALES BAS IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENG.COM 707-441-8855			
DSGN DR JWF/CDN CHK JSD APVD		NO. DATE REVISION BY		SHEET C1.7 SEQ DATE 09/2023 PROJ. NO. 022067	
GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA MAIN TANK CONNECTIONS					

SAVED: 9/29/2023 5:09 PM JFOSTER, PLOTTED: 10/14/2023 8:17 AM NEWELL, CHRIS
 P:\Eureka\2022\022067-GSD-Water\Draws\022067-HURLBUTT-PUMP-STATION-MECH.dwg

KEY NOTES:

- | | | | |
|------------------|------------------|-----------------------|---|
| 1 2" GALV EL | 7 4"x3" DIP RDCR | 13 8"x4" DIP RDCR | 19 422 GAL PRESSURE TANK, FULL ACCEPTANCE REPLACEABLE BLADDER |
| 2 2" GALV TEE | 8 3" DIP EL | 14 8" DIP EL | 20 2" END SUCTION PUMP, SEE SPECIFICATIONS |
| 3 2" BALL VALVE | 9 3" DIP TEE | 15 8"x4" DIP RDCR TEE | 21 PRESSURE GAUGE ASSEMBLY 0-100PSI |
| 4 2" GALV UNION | 10 3" GATE VALVE | 16 8"x4" RDCR EL | 22 PRESSURE TRANSMITTER |
| 5 2" CHECK VALVE | 11 4" DIP EL | 17 2" MAG FLOW METER | |
| 6 4"x2" DIP RDCR | 12 4" DIP TEE | 18 8"x4"x8" DIP TEE | |



60% DESIGN

VERIFY SCALES BAS IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8855	
DSGN PEG DR JWF/CDN CHK JSO APVD	GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA UPPER MAPLE LANE PUMP STATION MECHANICAL PLAN
SHEET C1.8	DATE 09/2023 PROJ. NO. 022067

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P.: Eureka | 2022 | 022067-GSD-Water | Dwg | 022067-HURLBUTT-TANK-WATR-MAIN-OVER.dwg



PLAN

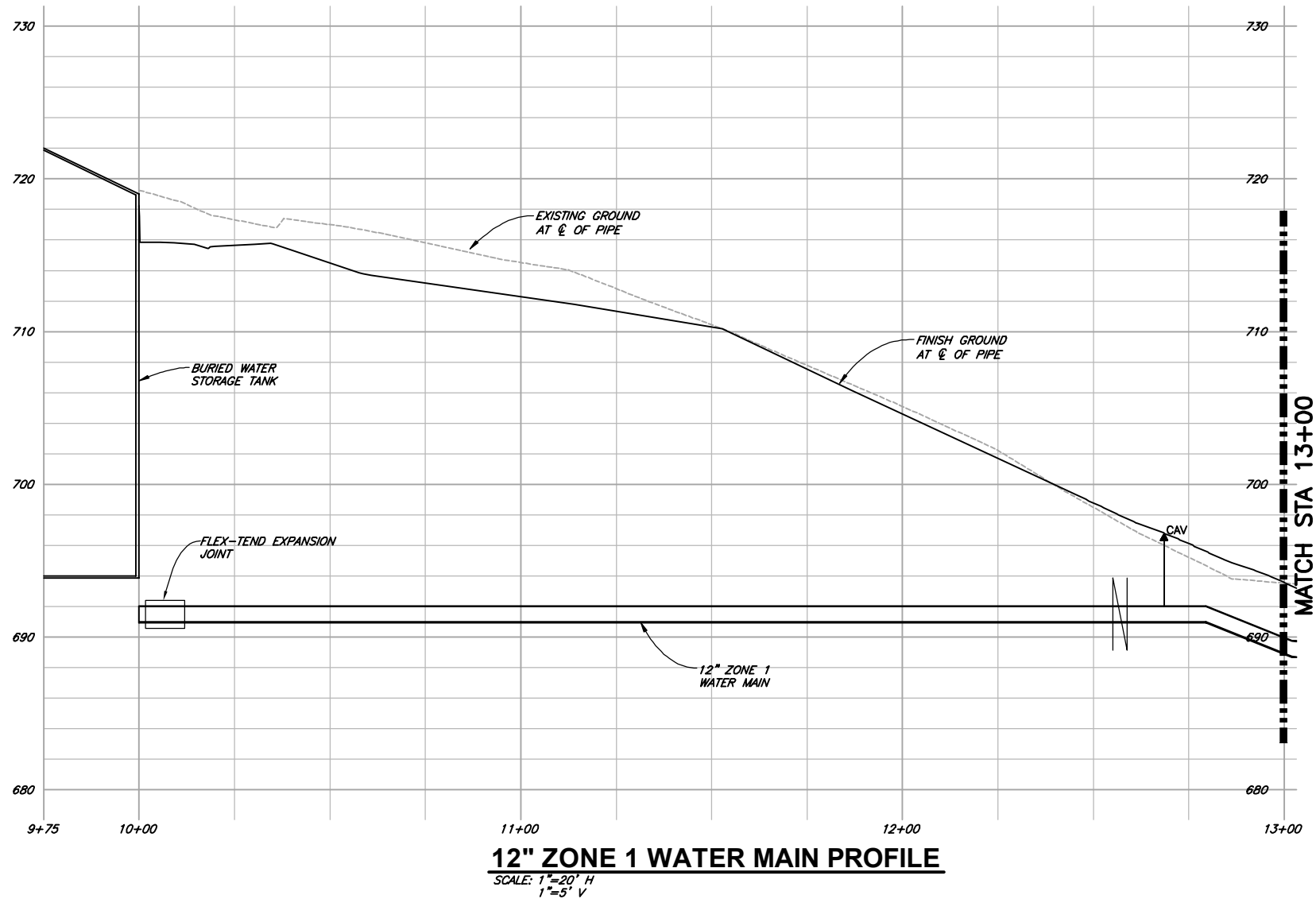
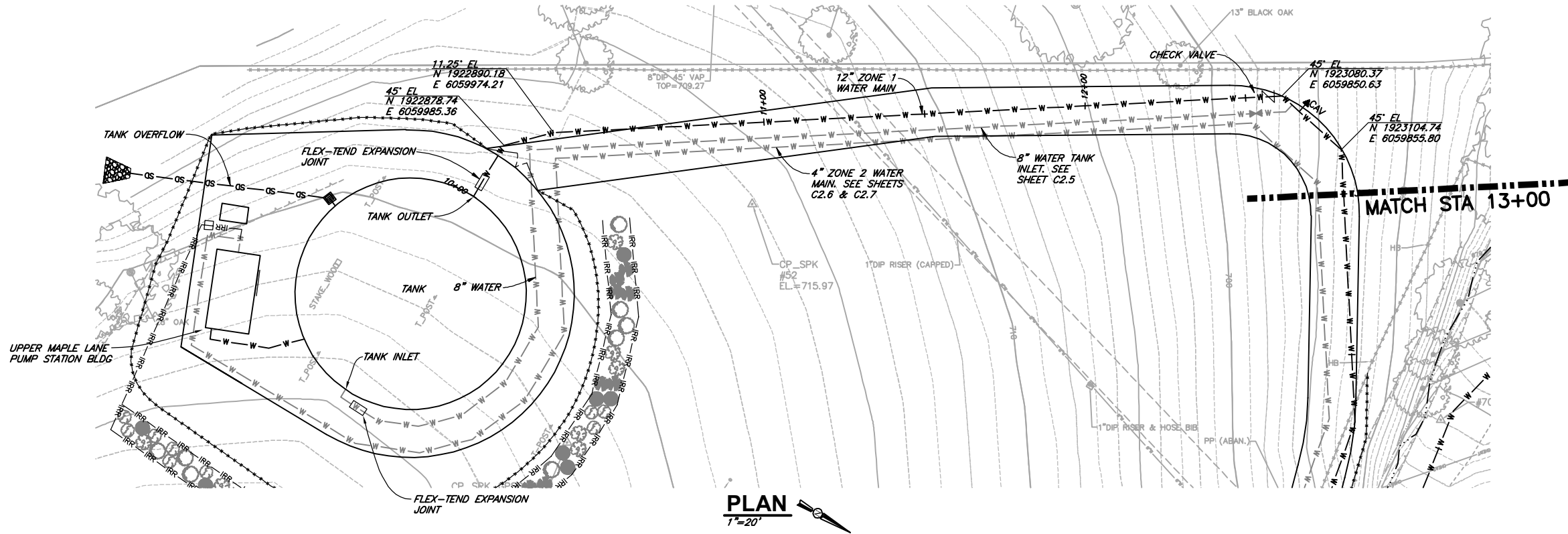
NTS



60% DESIGN

GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUIT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA		DSGN — DR CDM/JWF CHK JSD APVD		NO.	DATE	REVISION	BY
SHEET C2.0		SEQ		DATE 09/2023		PROJ. NO. 022067	
MAIN TANK WATER MAIN OVERVIEW				812 W. WABASH AVE. WURKALA CENTER WILKINSON, CA 95691 707-441-8865		VERIFY SCALES BR IS ONE INCH ON ORIGINAL DRAWING O ——— 1" IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY	

SAVED: 9/29/2023 3:33 PM CNEWELL, PLOTTED: 10/14/2023 8:17 AM NEWELL, CHRIS
F:\Eureka\2022\022067-GSD-Water\Draws\022067-HURLBUTT-TANK-WATR-MAIN-PNP.dwg



60% DESIGN

VERIFY SCALES
B/S IS ONE INCH ON
ORIGINAL DRAWING
O IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

812 W. WABASH AVE.
EUREKA, CA 95501
WWW.SHN-ENGINEERING.COM
707-441-8855

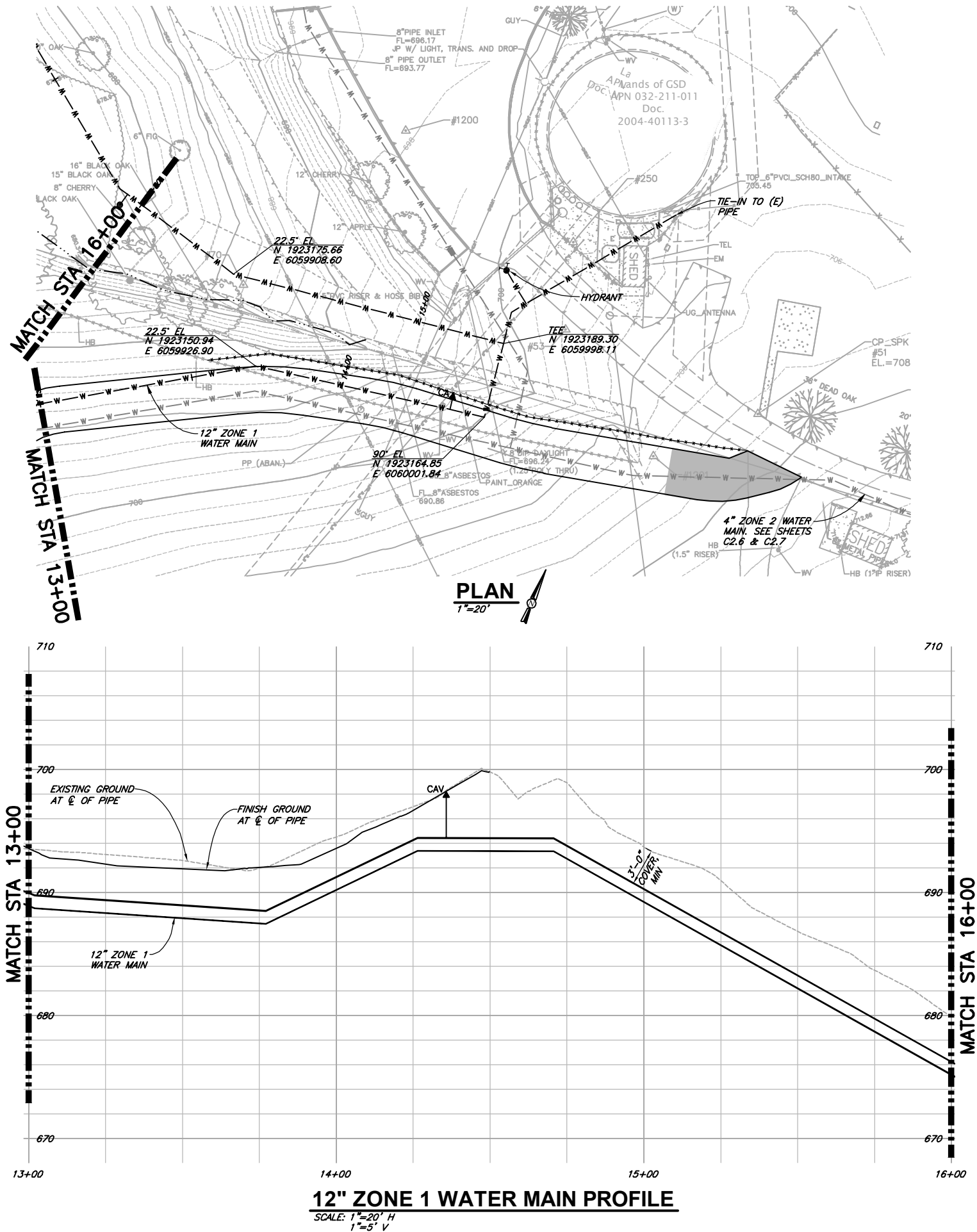


NO.	DATE	REVISION	BY

GARBerville SANITARY DISTRICT
ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT
GARBerville, CALIFORNIA
**MAIN TANK WATER MAIN
PLAN AND PROFILE**

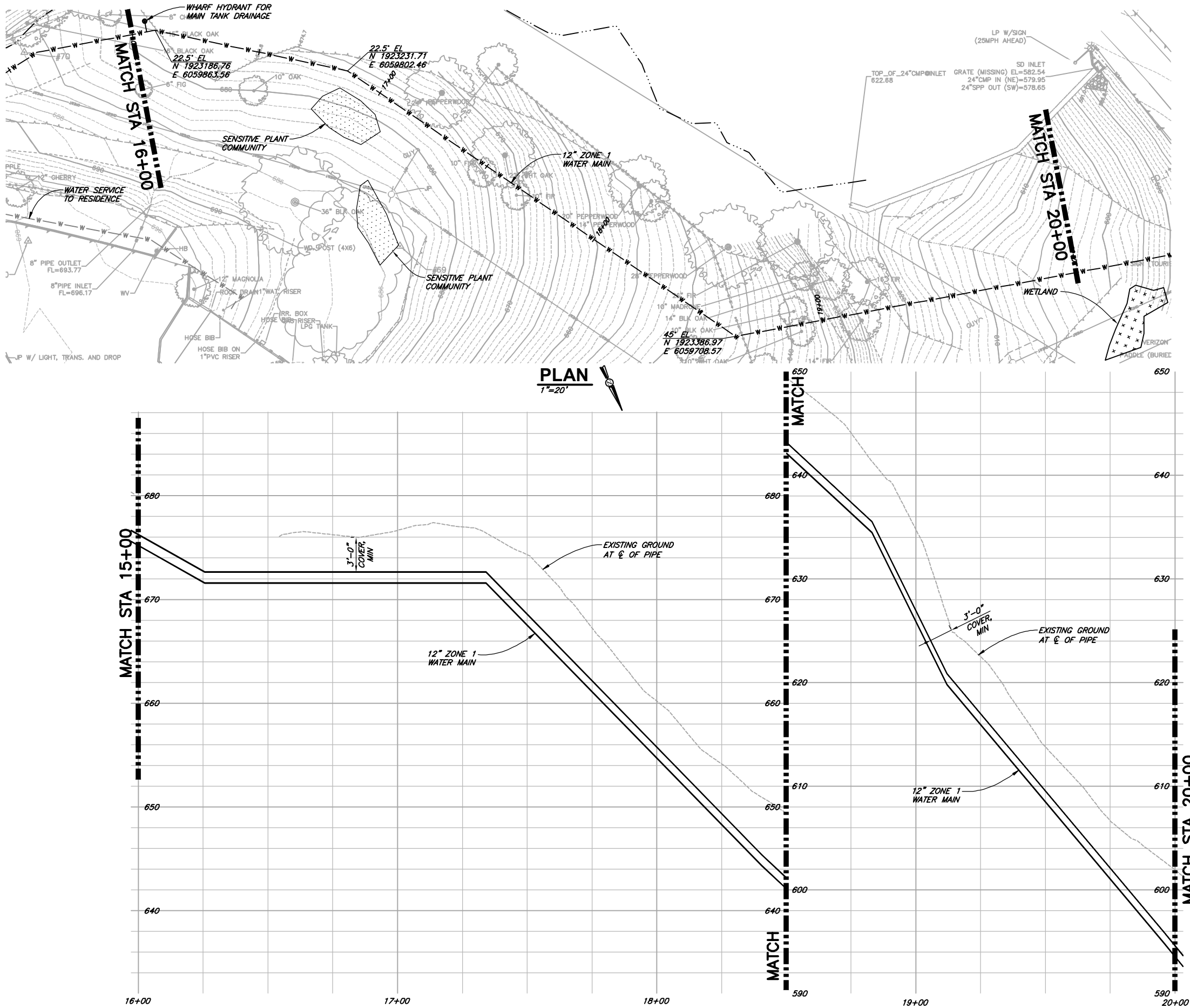
SHEET	C2.1
SEQ	
DATE	09/2023
PROJ. NO.	022067

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F:\Eureka\2022\022067-GSD-Water\Draws\022067-HURLBUTT-TANK-WATR-MAIN-PNP.dwg



VERIFY SCALES B/S IS ONE INCH ON ORIGINAL DRAWING O IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8885		BY	
DSGN -		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8885		REVISION	
DR JWF/CDN		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8885		DATE	
CHK JSO		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8885		NO.	
APVD		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8885		BY	
GARBerville SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBerville, CALIFORNIA		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8885		REVISION	
SHEET C2.2		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8885		DATE	
SEQ		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8885		NO.	
DATE 08/2023		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8885		BY	
PROJ. NO. 022067		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8885		REVISION	

SAVED: 9/29/2023 3:33 PM CNEWELL, PLOTTED: 10/14/2023 8:18 AM NEWELL, CHRIS
F:\Eureka\2022\022067-GSD-Water\Draws\022067-HURLBUTT-TANK-WATR-MAIN-PNP.dwg

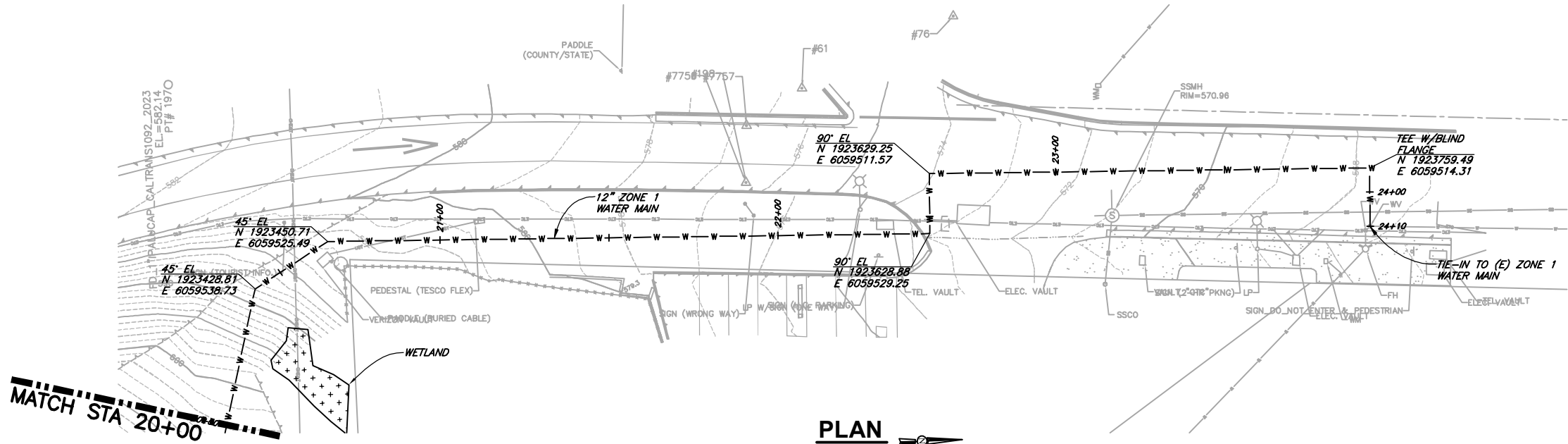


12" ZONE 1 WATER MAIN PROFILE
SCALE: 1"=20' H
1"=5' V

60% DESIGN

VERIFY SCALES B/S IS ONE INCH ON ORIGINAL DRAWING O IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8885	
DR	BY
CHK	REVISION
APVD	DATE
DSGN	NO.
GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA	
MAIN TANK WATER MAIN PLAN AND PROFILE	
SHEET C2.3	
SEQ	
DATE 08/2023	
PROJ. NO. 022067	

SAVED: 9/29/2023 3:33 PM CNEWELL, PLOTTED: 10/14/2023 8:18 AM NEWELL, CHRIS
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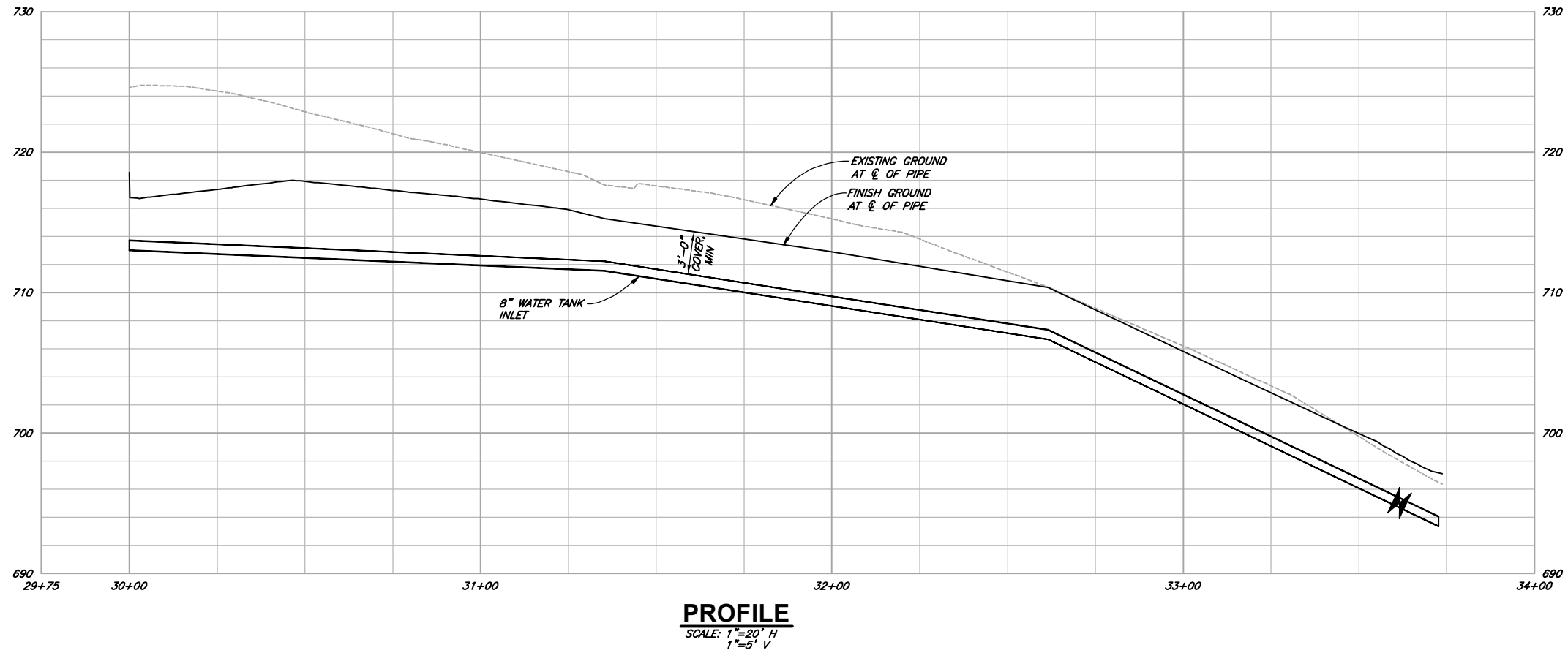
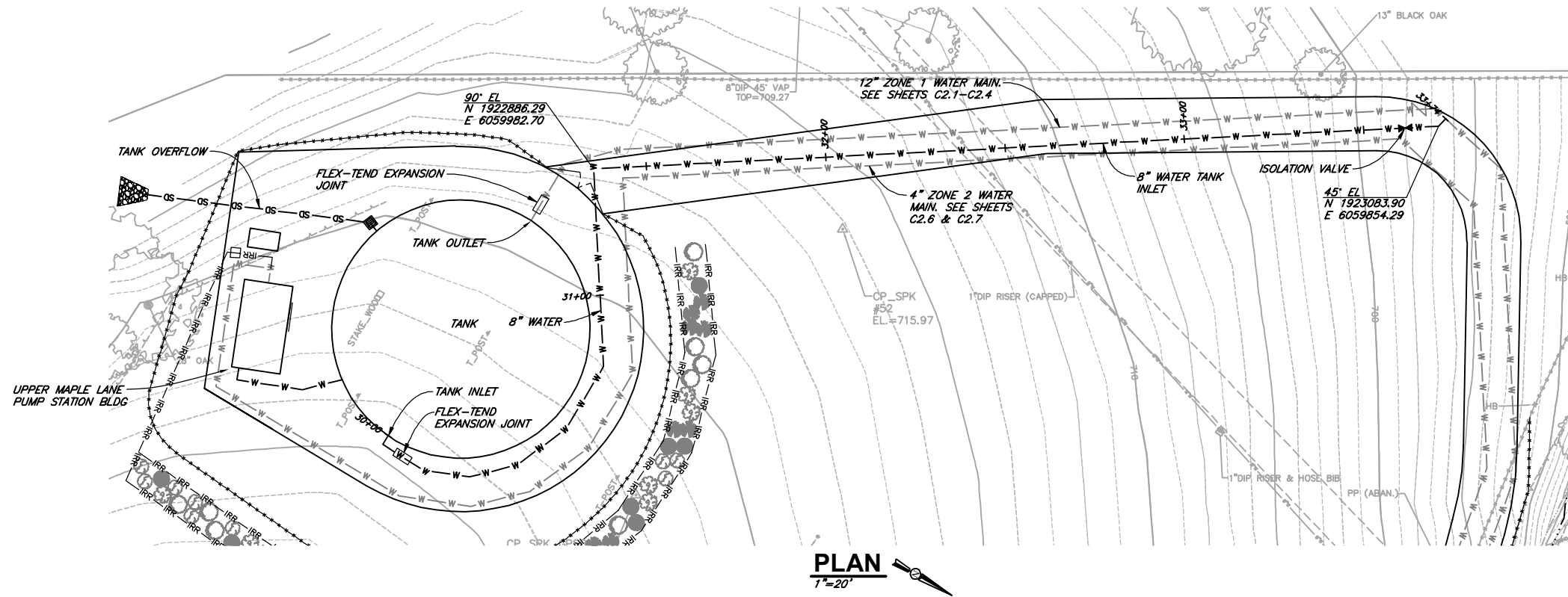
12" ZONE 1 WATER MAIN PROFILE

SCALE: 1"=20' H
1"=5' V

60% DESIGN

VERIFY SCALES BAS IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENG.COM 707-441-8885	
BY	
REVISION	
DATE	
NO.	
DSGN	-
DR	JWF/CDN
CHK	JSO
APVD	
GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA	
MAIN TANK WATER MAIN PLAN AND PROFILE	
SHEET C2.4	
SEQ	
DATE 08/2023	
PROJ. NO. 022067	

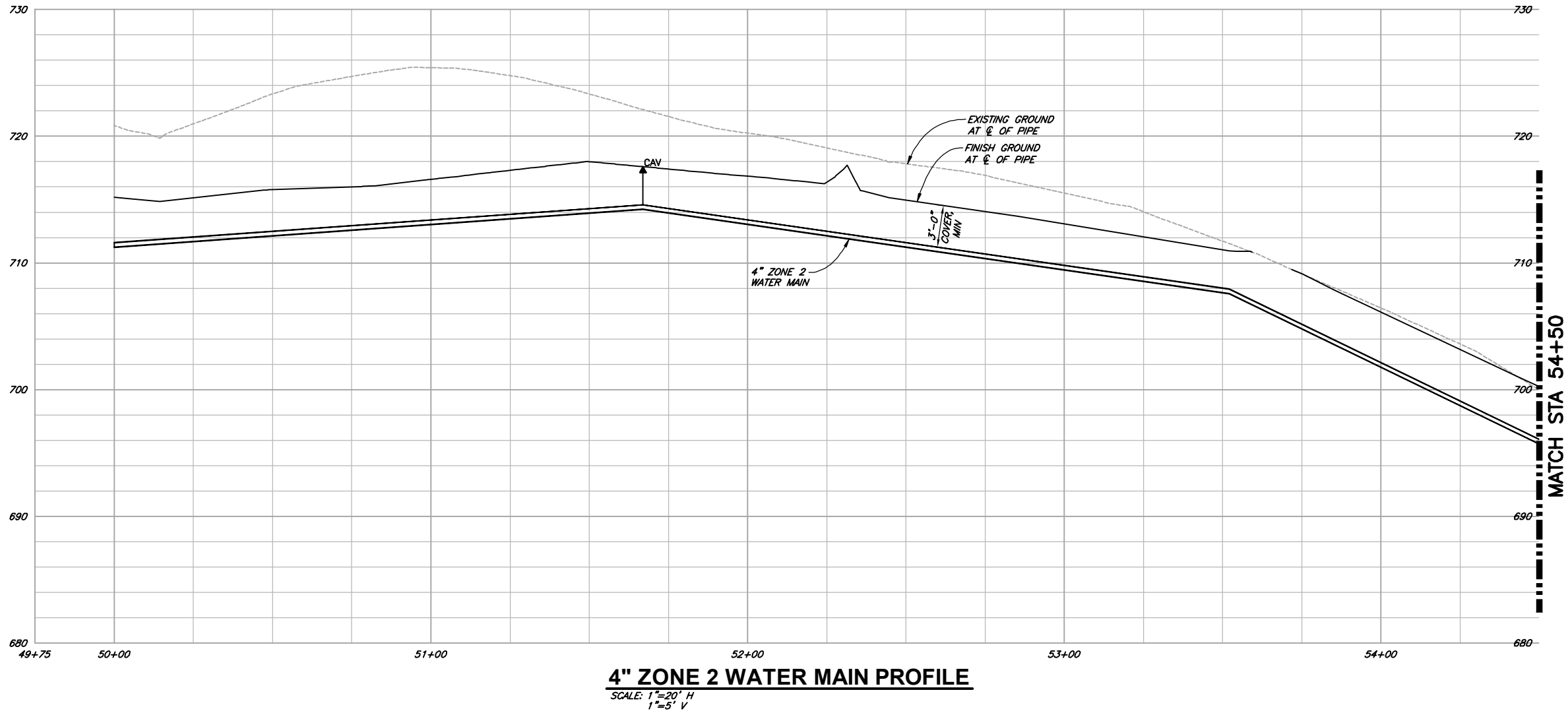
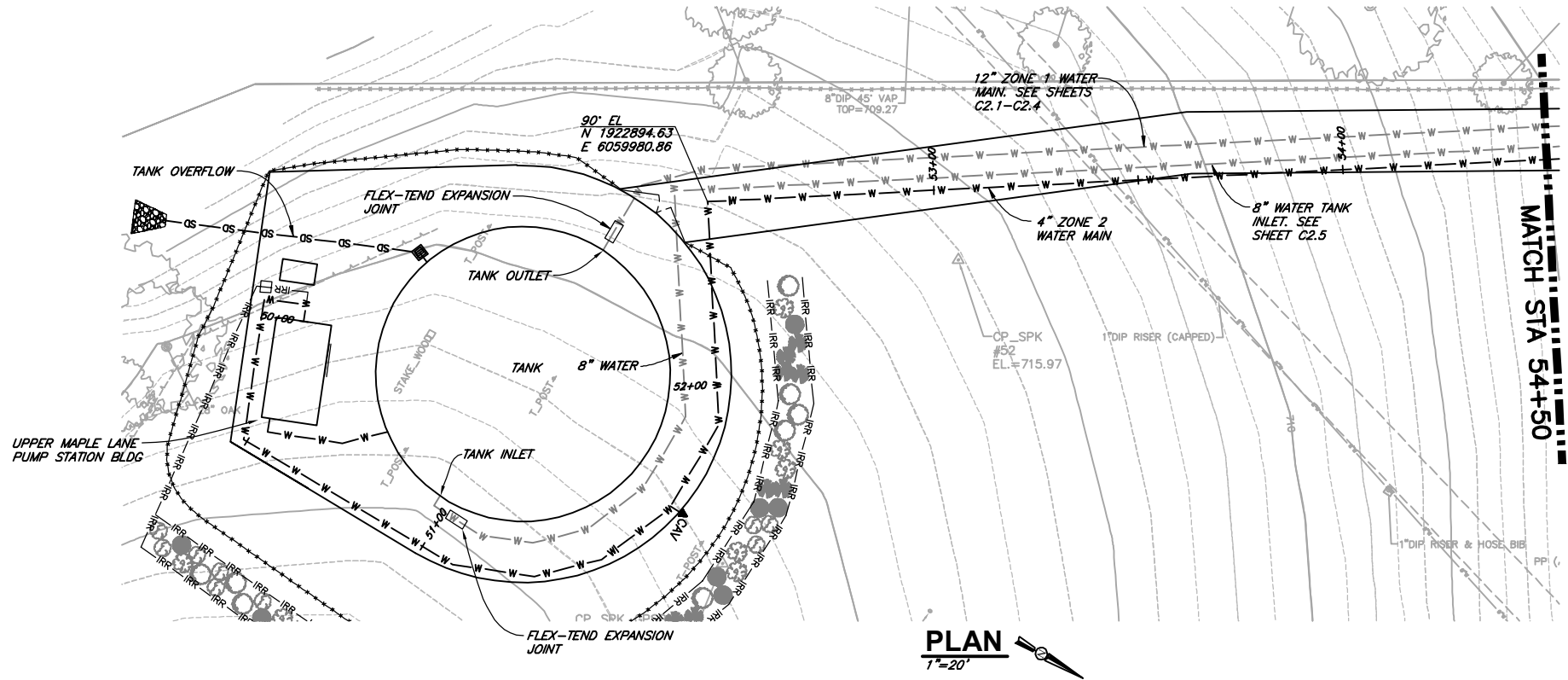
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P: Eureka | 2022 | 022067-GSD-Water | Dwgs | 022067-HURLBUTT-TANK-WATR-INLET-PNP.dwg



60% DESIGN

SHEET C2.5		GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA		DSGN — DR JWF /CDN CHK JSO APVD		NO.		DATE		REVISION		BY	
PROJ. NO. 022067		DATE 09/2023		SEQ		PLAN AND PROFILE							

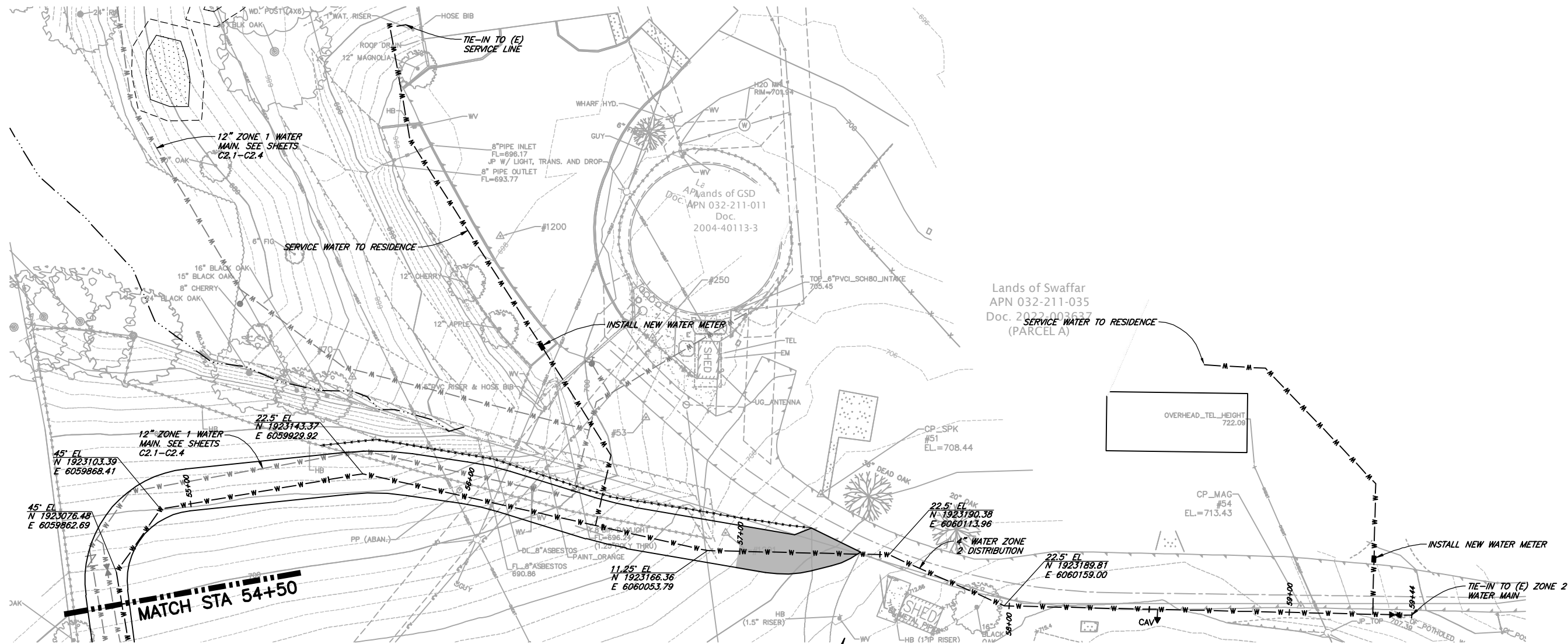
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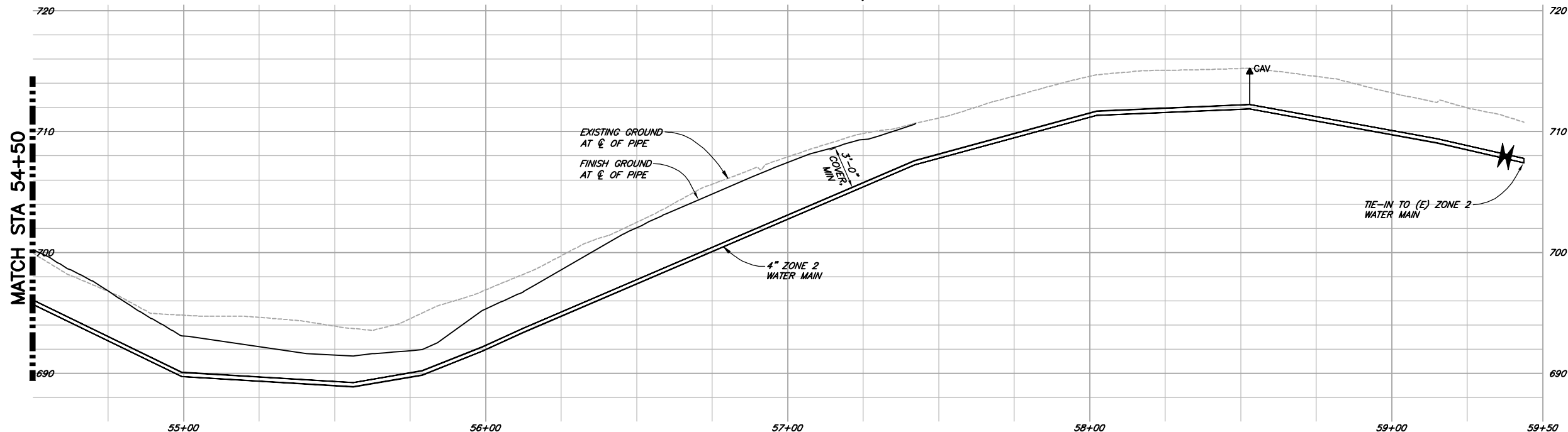
60% DESIGN

VERIFY SCALES BAS IS ONE INCH ON ORIGINAL DRAWING 0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8855	
NO.	DATE
REVISION	
BY	
DSGN - DR JWF/CDN CHK JSO APVD	
GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA MAIN TANK 4 INCH WATER DISTRIBUTION PLAN AND PROFILE	
SHEET C2.6	
SEQ	
DATE 09/2023	
PROJ. NO. 022067	

SAVED: 9/29/2023 3:32 PM CNEWELL, PLOTTED: 10/14/2023 8:19 AM NEWELL, CHRIS
F:\Eureka\2022\022067-GSD-Water\Draws\022067-HURLBUTT-TANK-WATR-MAPLE-FWP.dwg



PLAN
1"=20'



4" ZONE 2 WATER MAIN PROFILE
SCALE: 1"=20' H
1"=5' V

60% DESIGN

VERIFY SCALES B/S IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEERING.COM 707-441-8855	
BY	
REVISION	
DATE	
NO.	
DSGN	-
DR	JWF/CDN
CHK	JSO
APVD	
GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA	
MAIN TANK 4INCH WATER DISTRIBUTION PLAN AND PROFILE	
SHEET C2.7	
SEQ	
DATE 09/2023	
PROJ. NO. 022067	

SAVED: 9/28/2023 11:49 AM CNEWELL, PLOTTED: 10/4/2023 8:19 AM NEWELL, CHRIS
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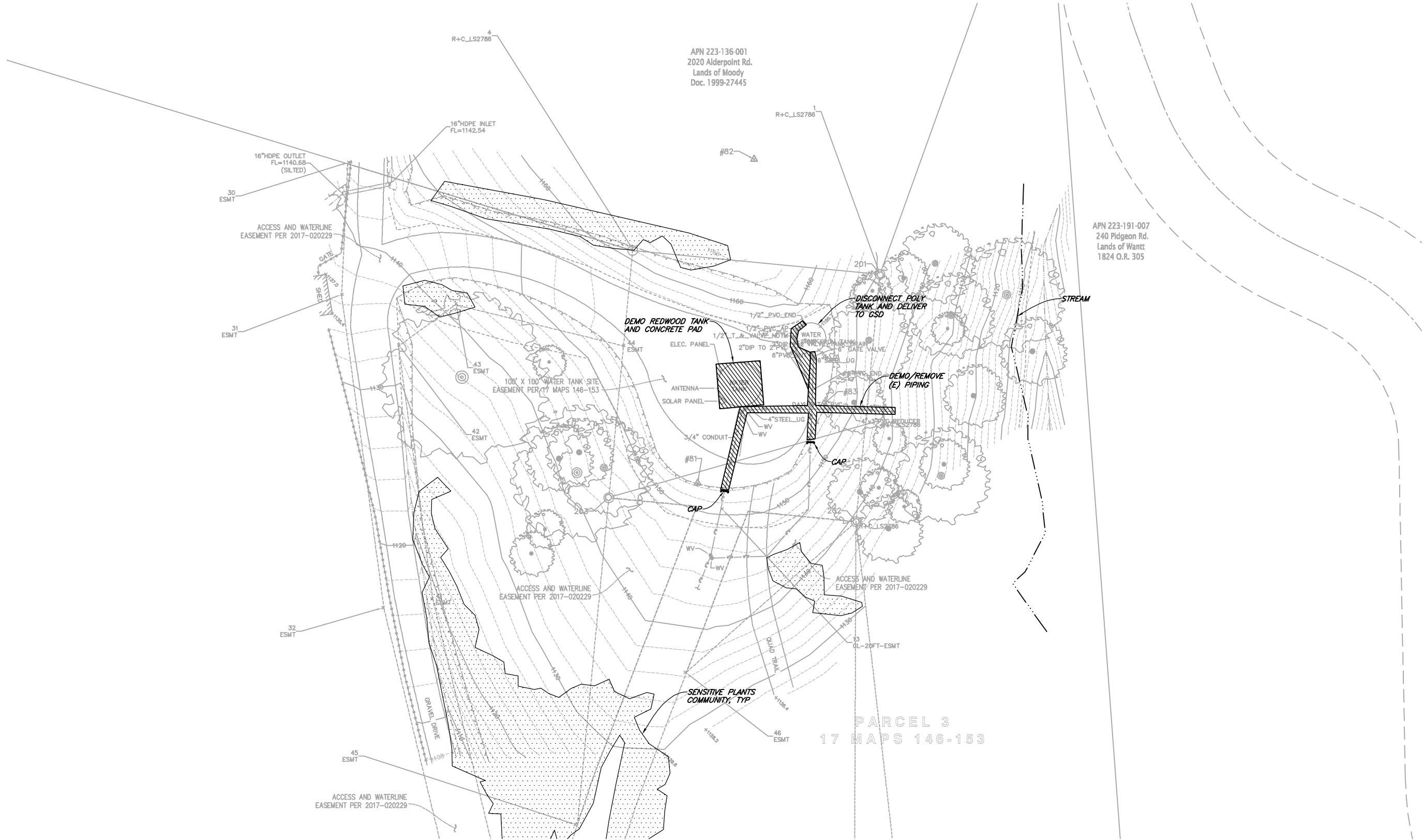
PLAN
 1"=80'



60% DESIGN

VERIFY SCALES THIS IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY			
 812 W. WABASH AVE. EUREKA, CA 95501 WWW.S&W-ENG.COM 707-441-8855			
		BY	
		REVISION	
		DATE	
		NO.	
DSGN - DR CDN/JWF CHK JSO APVD		GARBerville SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBerville, CALIFORNIA WALLAN TANK AND PUMP STATION OVERVIEW	
SHEET		C3.0	
SEQ			
DATE		09/2023	
PROJ. NO.		022067	

SAVED: 9/28/2023 11:52 AM CNEWELL, PLOTTED: 10/4/2023 8:19 AM NEWELL, CHRIS
F:\Eureka\2022\022067-GSD-Water\Draws\022067-WALL-TNK-ESCP.dwg



DEMOLITION NOTES:

1. EXISTING POLY TANK SHALL REMAIN FULLY OPERATIONAL UNTIL NEW TANK IS CONSTRUCTED AND APPROVED FOR USE BY THE OWNER AND ENGINEER.
2. CONTRACTOR SHALL DEMOLISH AND PROPERLY DISPOSE OF ALL ITEMS SHOWN TO BE DEMOLISHED.

PLAN

1"=20'



LEGEND



DEMOLITION/REMOVE



SENSITIVE PLANTS
COMMUNITY

60% DESIGN

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

812 W. WABASH AVE.
EUREKA, CA 95501
WWW.SHN-ENG.COM
707-441-8885



BY

REVISION

DATE

NO.

DSGN -
DR CDN/JWF
CHK JSO
APVD

GARBerville SANITARY DISTRICT
ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT
GARBerville, CALIFORNIA
**WALLAN TANK CLEARING, GRUBBING,
AND DEMOLITION PLAN**

SHEET
C3.1
SEQ
DATE 09/2023
PROJ. NO.
022067

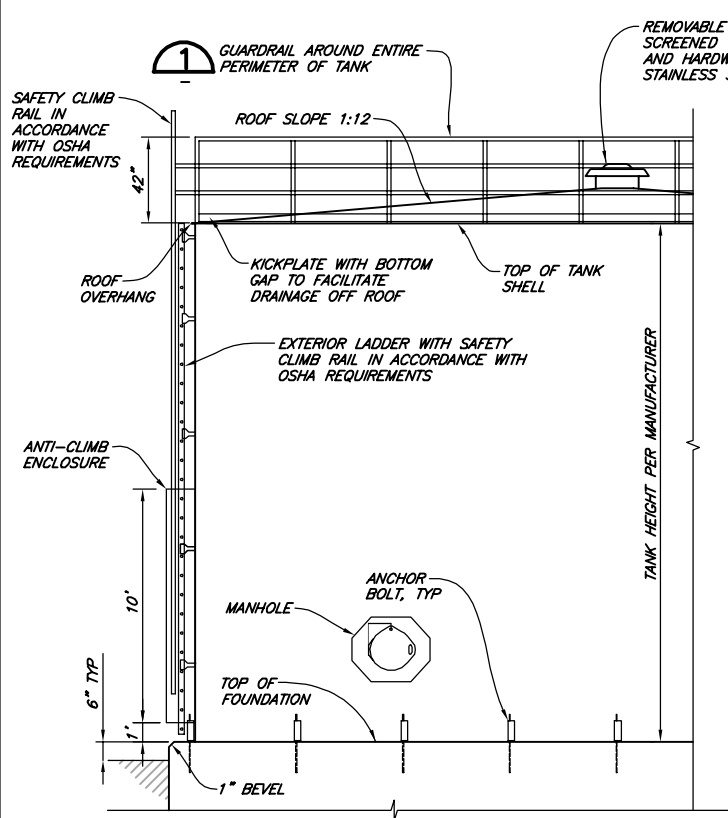
P: Eureka | 2022 | 022067-GSD-Water | Dwgs | 022067-WALL-TNK-SITE.dwg



60% DESIGN

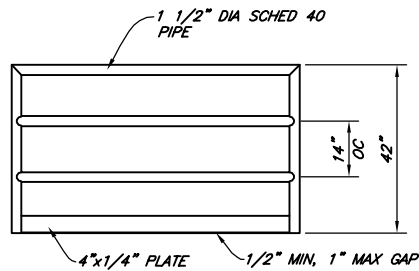
SHEET C3.2	GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA		DSGN -			812 W. WABASH AVE. EUPEKA, CA. 95501 WWW.SW-ENGR.COM 707-441-8855	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0  1" IF NOT ONE INCH ON ORIGINAL DRAWING SCALE RECORDING Y
	WALLAN TANK SITE PLAN & YARD PIPING		DR CDW/JWF				
	APVD		CHK JSO				
	NO.		DATE				
	REVISION		BY				

SAVED: 9/29/2023 3:45 PM CNEWELL, PLOTTED: 10/14/2023 8:20 AM NEWELL, CHRIS
 P:\Eureka\2022\022067-GSD-Water\Draws\022067-WALL-TANK-LAYOUT.dwg

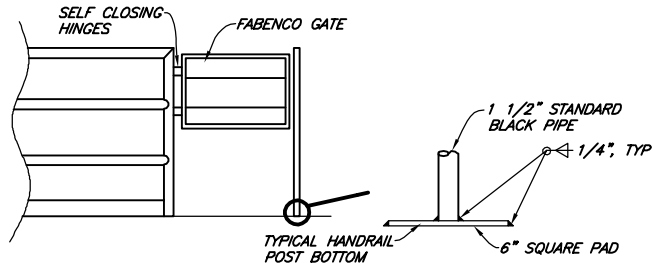


TANK ELEVATION

NTS



RAIL ELEVATION



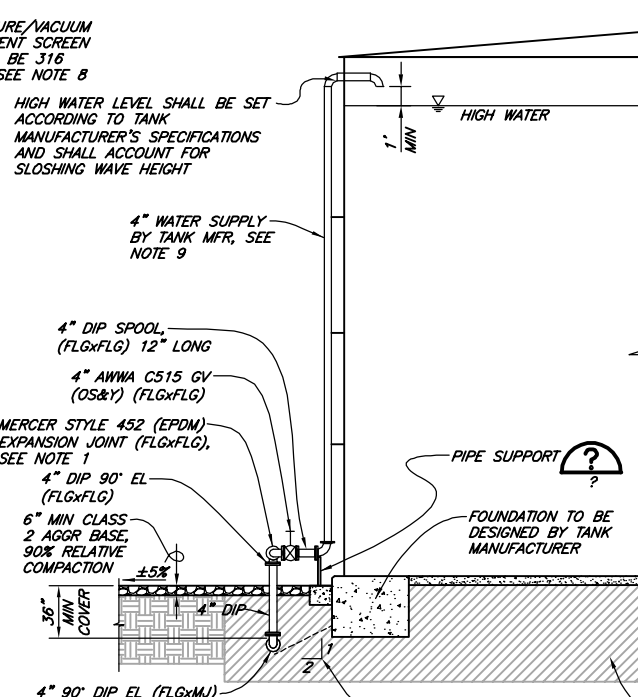
GATE ELEVATION

DETAIL

DETAIL 1

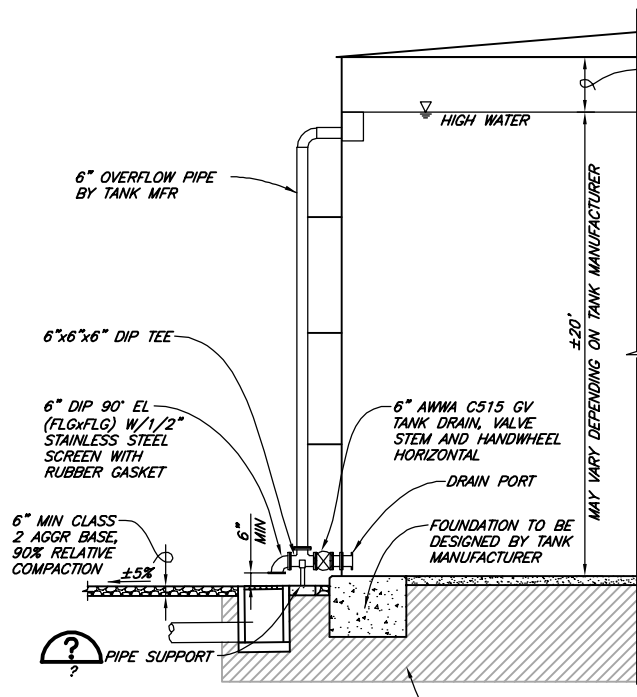
NTS

(GUARDRAILING)



INLET/SUPPLY

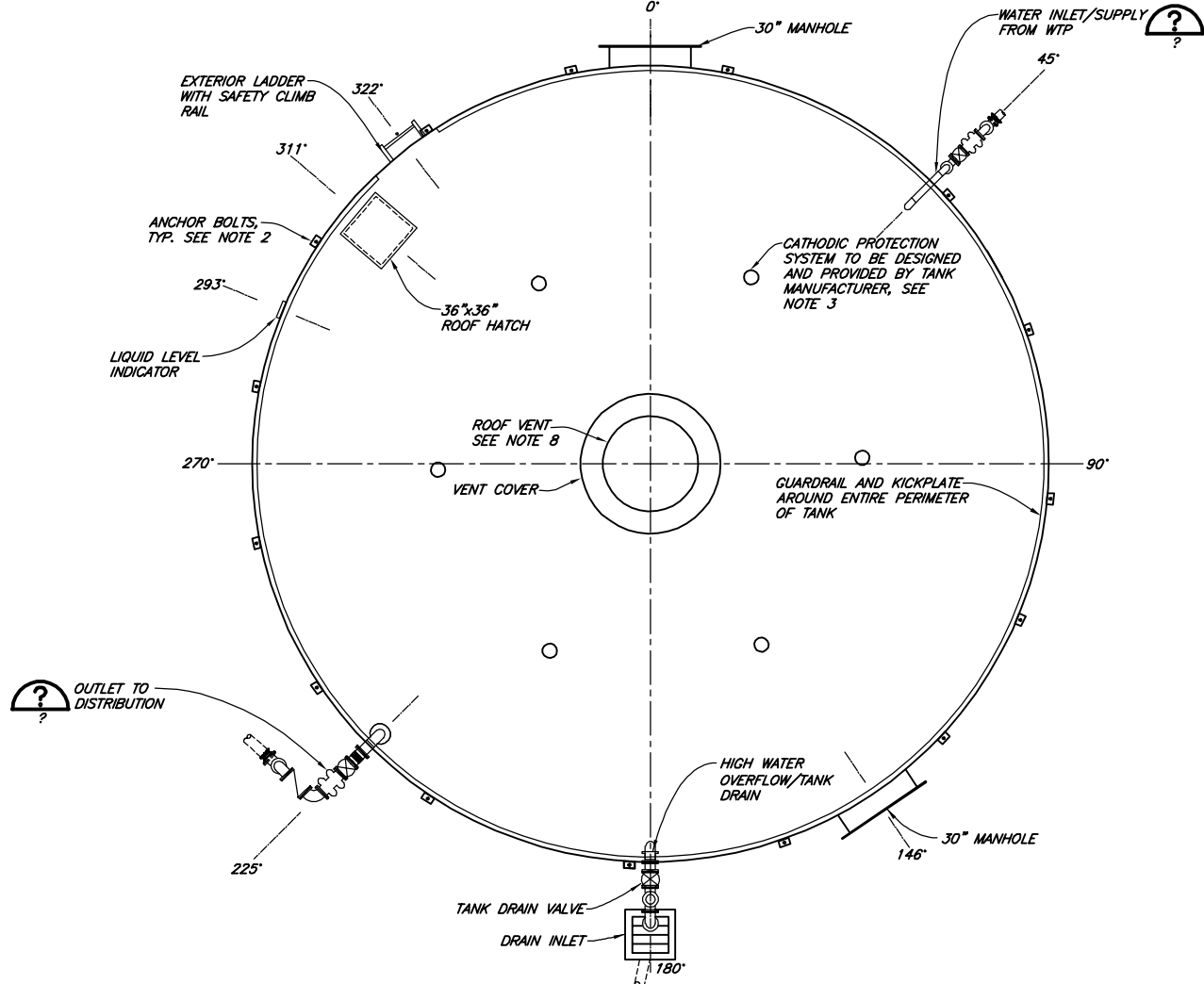
NTS



HIGH WATER OVERFLOW/TANK DRAIN

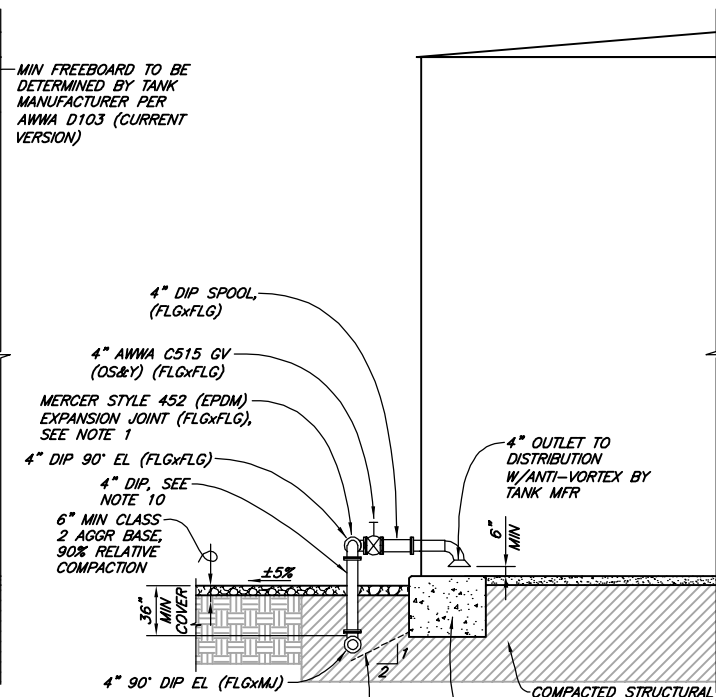
NTS

(APPROX NORTH)



TANK PLAN

NTS



OUTLET TO DISTRIBUTION

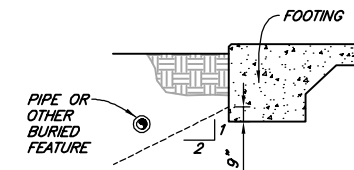
NTS

NOTES:

1. ALL PIPING CONNECTIONS SHALL HAVE ADEQUATE CAPACITY TO ACCOMMODATE CALCULATED DISPLACEMENTS DUE TO SEISMIC LOADS, IN ACCORDANCE WITH AWWA D100 OR D103 AS APPROPRIATE (CURRENT VERSION). PIPING CONNECTIONS SHOWN ON THESE PLANS REPRESENT MINIMUM REQUIREMENTS AND SHOULD BE MODIFIED IN COORDINATION WITH THE ENGINEER IF IT IS DETERMINED BY THE TANK MANUFACTURER THAT ADDITIONAL DISPLACEMENT CAPACITY IS NEEDED.
2. THE SIZE AND NUMBER OF ANCHOR BOLTS SHALL BE DETERMINED BY TANK MANUFACTURER'S ENGINEER.
3. TANK MANUFACTURER SHALL COORDINATE THE DESIGN AND INSTALLATION OF THE CATHODIC PROTECTION SYSTEM.
4. FINAL LOCATION OF TANK APPURTENANCES AND PIPING CONNECTIONS TO BE DETERMINED IN COORDINATION WITH THE OWNER IN THE FIELD. PROVIDE AS CLOSE TO 180° SEPARATION BETWEEN TANK INLET AND OUTLET AS POSSIBLE.
5. ALL EXTERIOR PIPES AND PIPE SUPPORTS SHALL BE COATED WITH TANK EXTERIOR COATING SYSTEM.
6. TANK BOTTOM AND TANK SHELL TO BOTTOM CONNECTION SHALL ALL BE VACUUM OR AIR-PRESSURE TESTED FOR WATER-TIGHTNESS.
7. ALL SAFETY RELATED COMPONENTS SHALL COMPLY WITH OSHA REQUIREMENTS.
8. TANK VENTS SHALL PREVENT ENTRY OF RAIN WATER OR RUNOFF, BIRDS, INSECTS, RODENTS, AND OTHER ANIMALS, PROVIDE SUFFICIENT AIRFLOW IF 50% BLOCKED, AND COVERED BY STAINLESS STEEL #24 MESH.
9. PROVIDE 1" THICK RIGID INSULATION, UV RESISTANT AND RATED FOR EXTERIOR USE ON ALL EXPOSED PIPING AND VALVES.

FLANGE NOTE:

DIELECTRIC ISOLATION KITS SHALL BE USED WITH ALL STAINLESS STEEL HARDWARE AND FASTENERS.



DETAIL 2

NTS

60% DESIGN

VERIFY SCALES BAS IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
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DSGN - DR - JWF/CDN CHK - JSO APVD -	BY REVISION DATE NO.
GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA	
WALLAN TANK LAYOUT	
SHEET C3.3	
SEQ	
DATE 09/2023	
PROJ. NO. 022067	

Saved: 9/29/2023 3:18 PM JFOSTER, PLOTTED: 10/14/2023 8:20 AM NEWELL, CHRIS
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(E) WALLAN PUMP STATION



PUMP STATION EXTERIOR



PUMP STATION INTERIOR

LEGEND



DEMOLITION/REMOVE



SENSITIVE PLANTS COMMUNITY

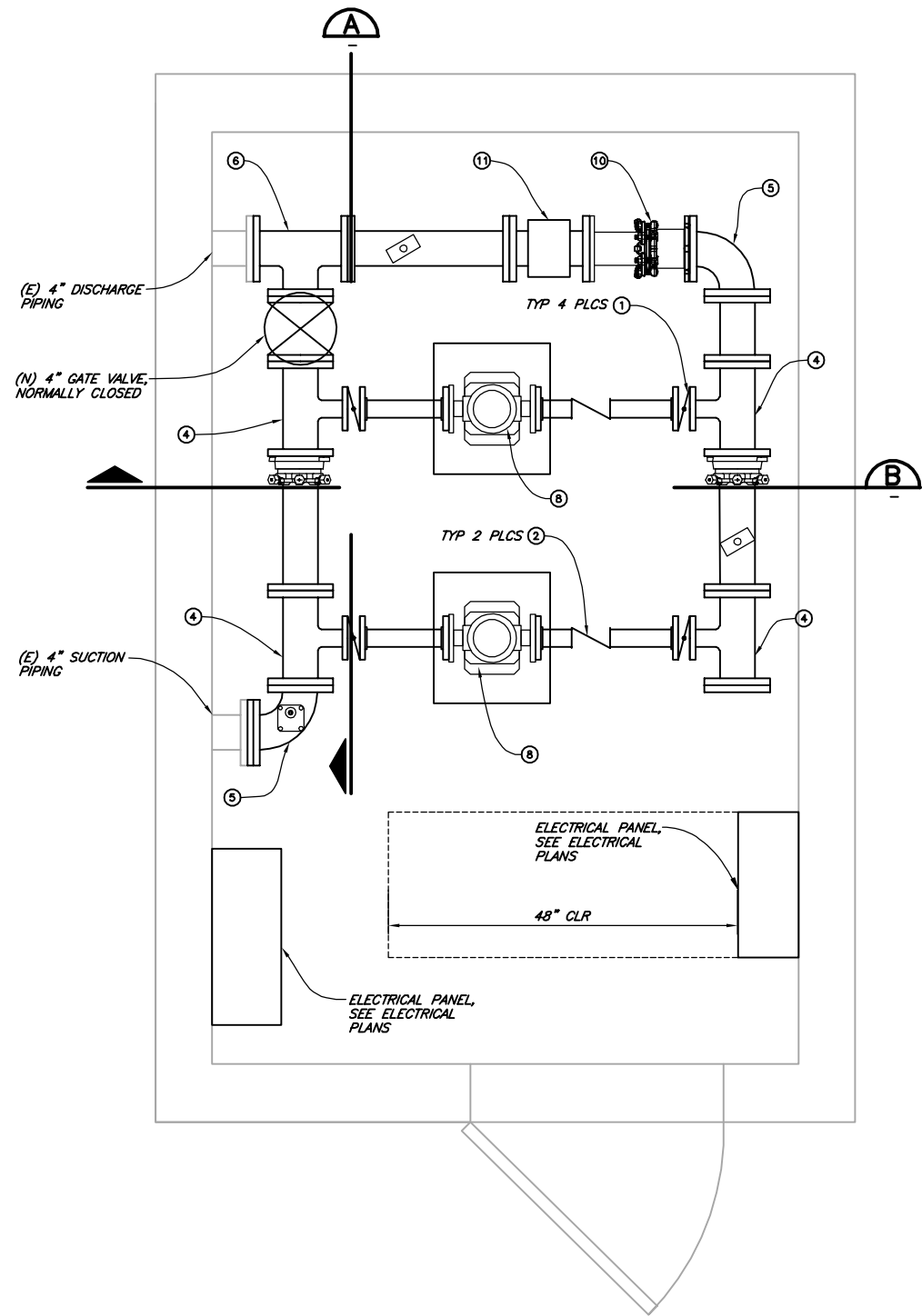
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DATE		NO.		BY	
DR		CDN/JWF		CHK	
APVD		JSD		APVD	
GARBerville SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBerville, CALIFORNIA					
WALLAN PUMP STATION UPGRADES					
SHEET C4.0					
SEQ					
DATE 09/2023					
PROJ. NO. 022067					

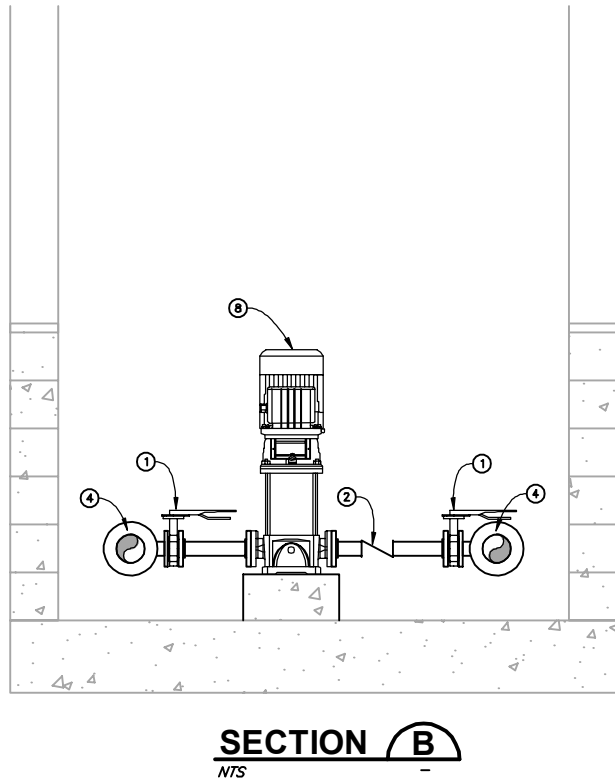
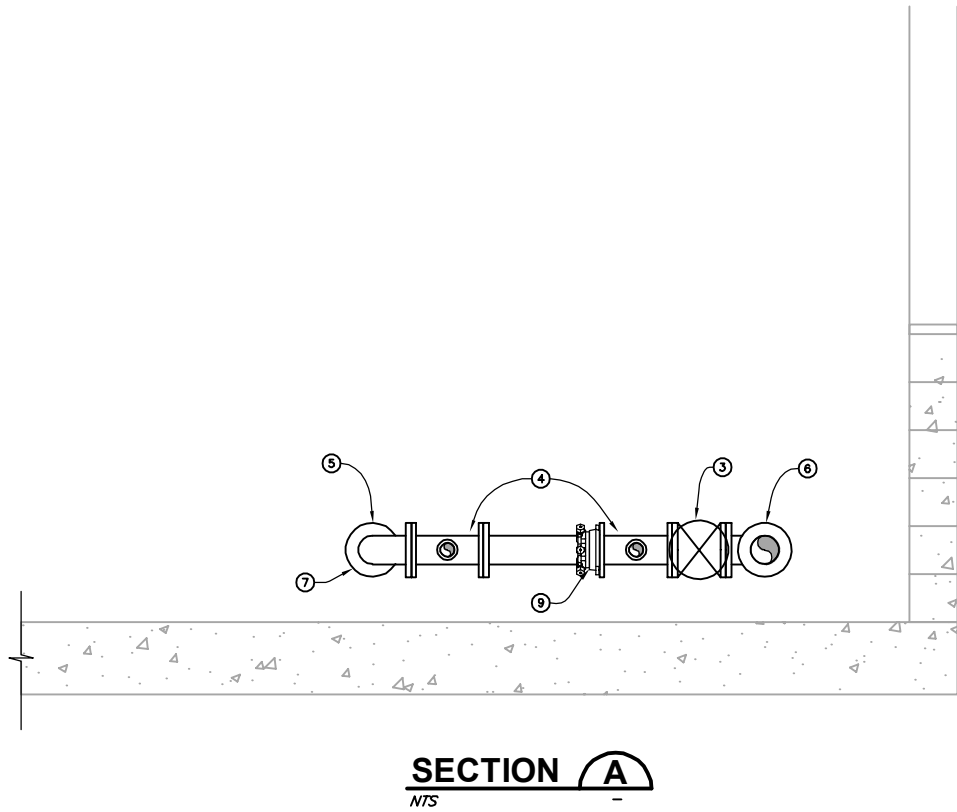
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KEY NOTES:

- | | | | |
|--------------------|-------------------------------------|----------|----------|
| 1 2" BFV, LUG | 7 CONNECT TO EXISTING PIPE | 12 ----- | 18 ----- |
| 2 2" CHECK VALVE | 8 BOOSTER PUMP 55GPM @ 306', 7.5 HP | 13 ----- | 19 ----- |
| 3 4" DIP GV | 9 4" RCFA | 14 ----- | 20 ----- |
| 4 4"x4"x2" DIP TEE | 10 4" DISMANTLING JOINT | 15 ----- | 21 ----- |
| 5 4" DIP EL | 11 4" MAGNETIC FLOW METER | 16 ----- | 22 ----- |
| 6 4" DIP TEE | | 17 ----- | 23 ----- |



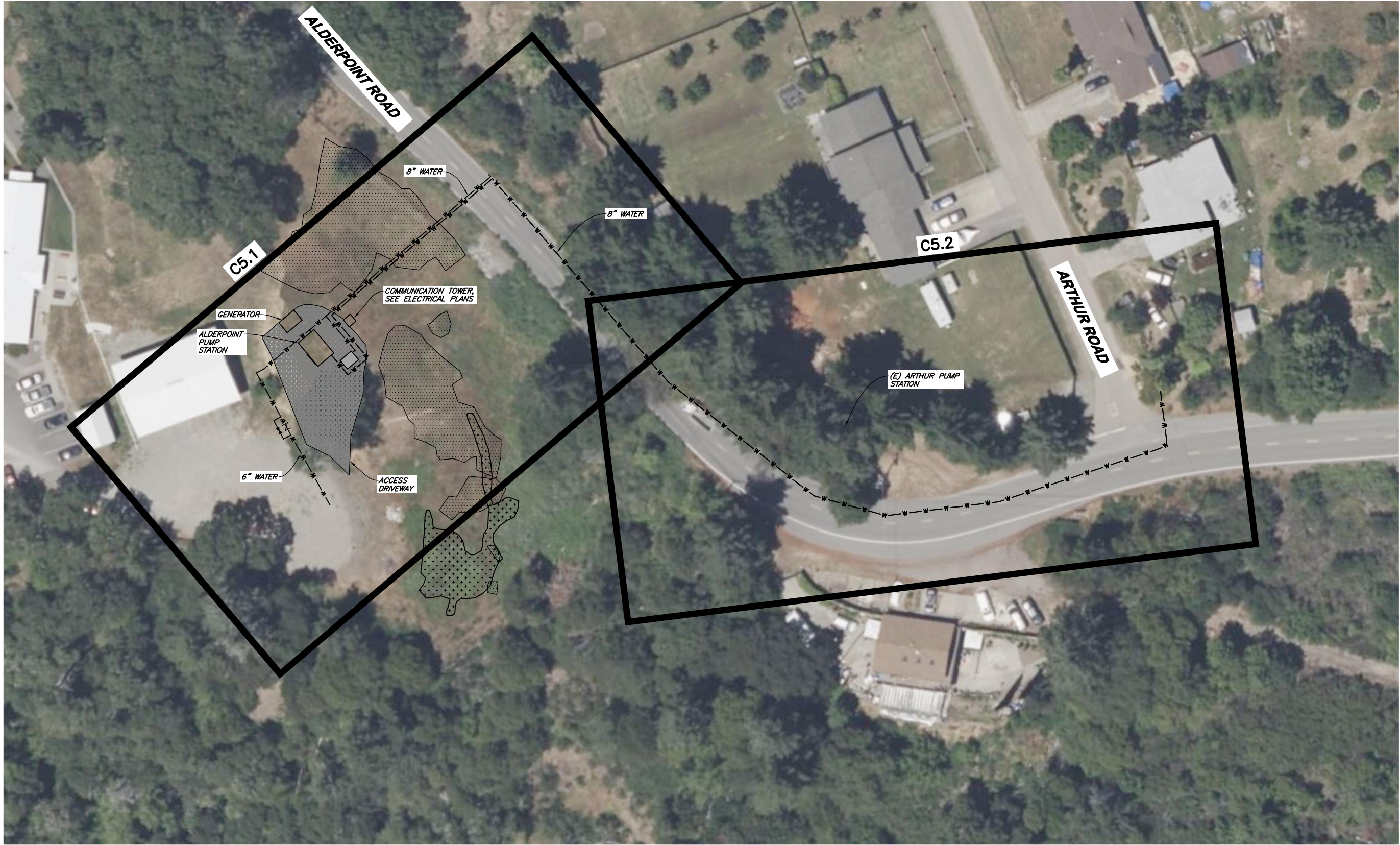
PLAN
1"=1'-0"



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GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA		APVD	
WALLAN PUMP STATION MECHANICAL PLAN		JSD	
SHEET C4.1		CDN/JWF	
SEQ		CHK	
DATE 09/2023		APVD	
PROJ. NO. 022067			

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PLAN
 1"=30'



LEGEND



WETLAND AREA



SENSITIVE PLANTS
 COMMUNITY

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GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA		ALDERPOINT PUMP STATION AND WATER MAIN OVERVIEW									
SHEET C5.0		SEQ		DATE 09/2023		PROJ. NO. 022067					

P: Eureka | 2022 | 022067-GSD-Water | Dwg | 022067-ALDRPNT-WATER-PNP.dwg



60% DESIGN

*SENSITIVE PLANTS
COMMUNITY*



DSGN	—
DR	CDN/JWF
CHK	JSO
APVD	

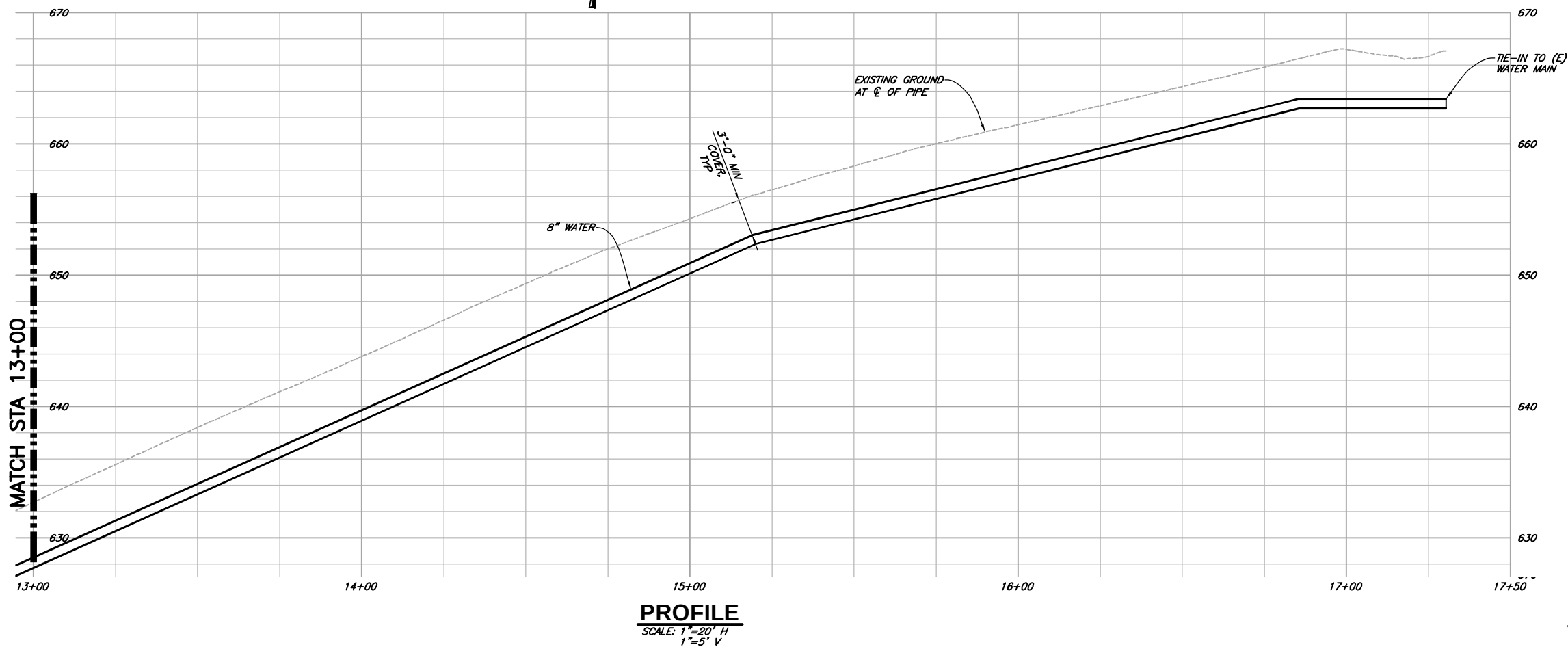
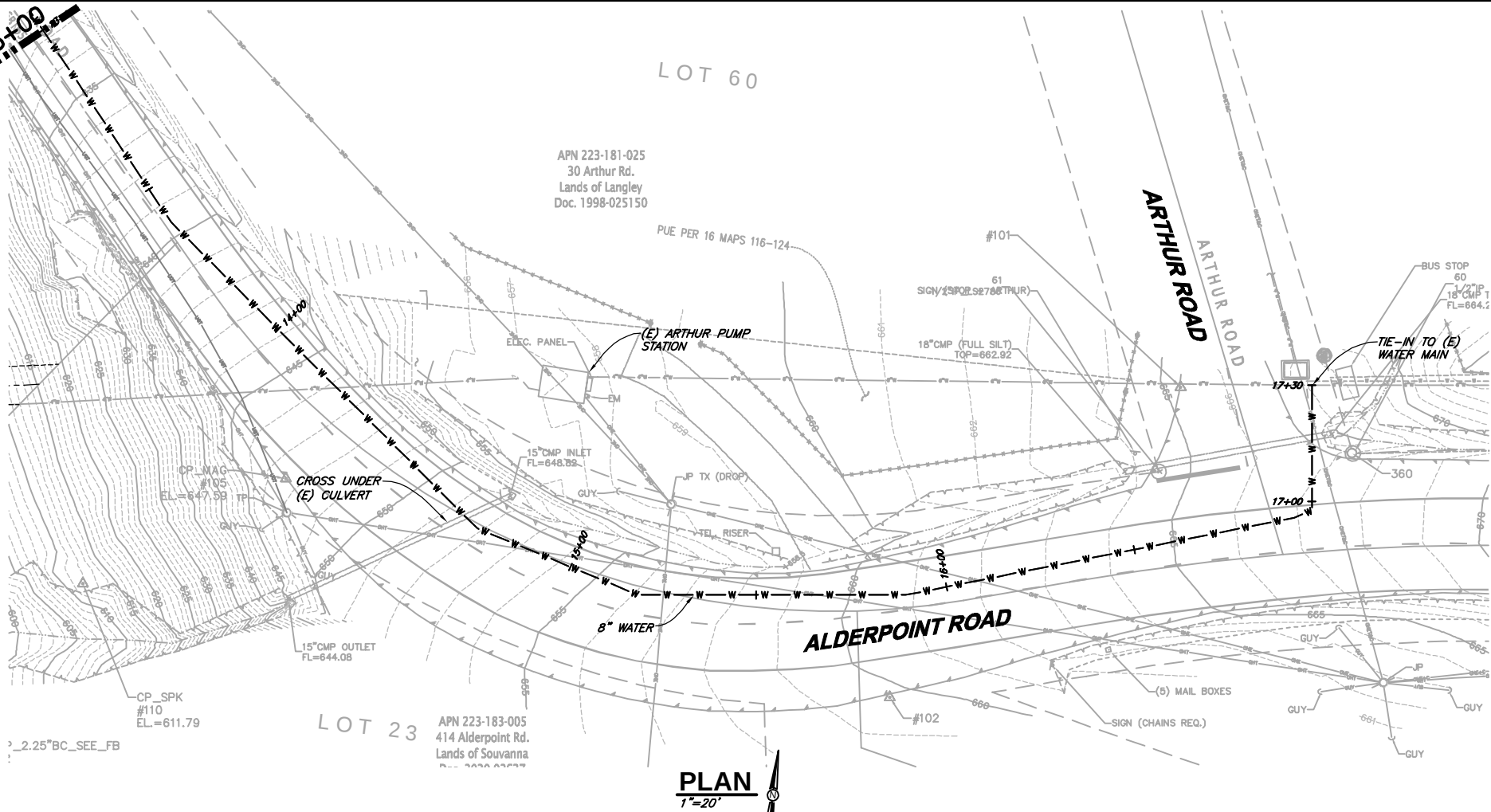
GARBERVILLE SANITARY DISTRICT
ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT
GARBERVILLE, CALIFORNIA

**ALDERPOINT PUMP STATION AND
WATER MAIN PLAN AND PROFILE**

SHEET	C5.1
SEQ	
DATE	<i>09/2023</i>
PROJ. NO.	<i>022067</i>

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MATCH STA 13+00

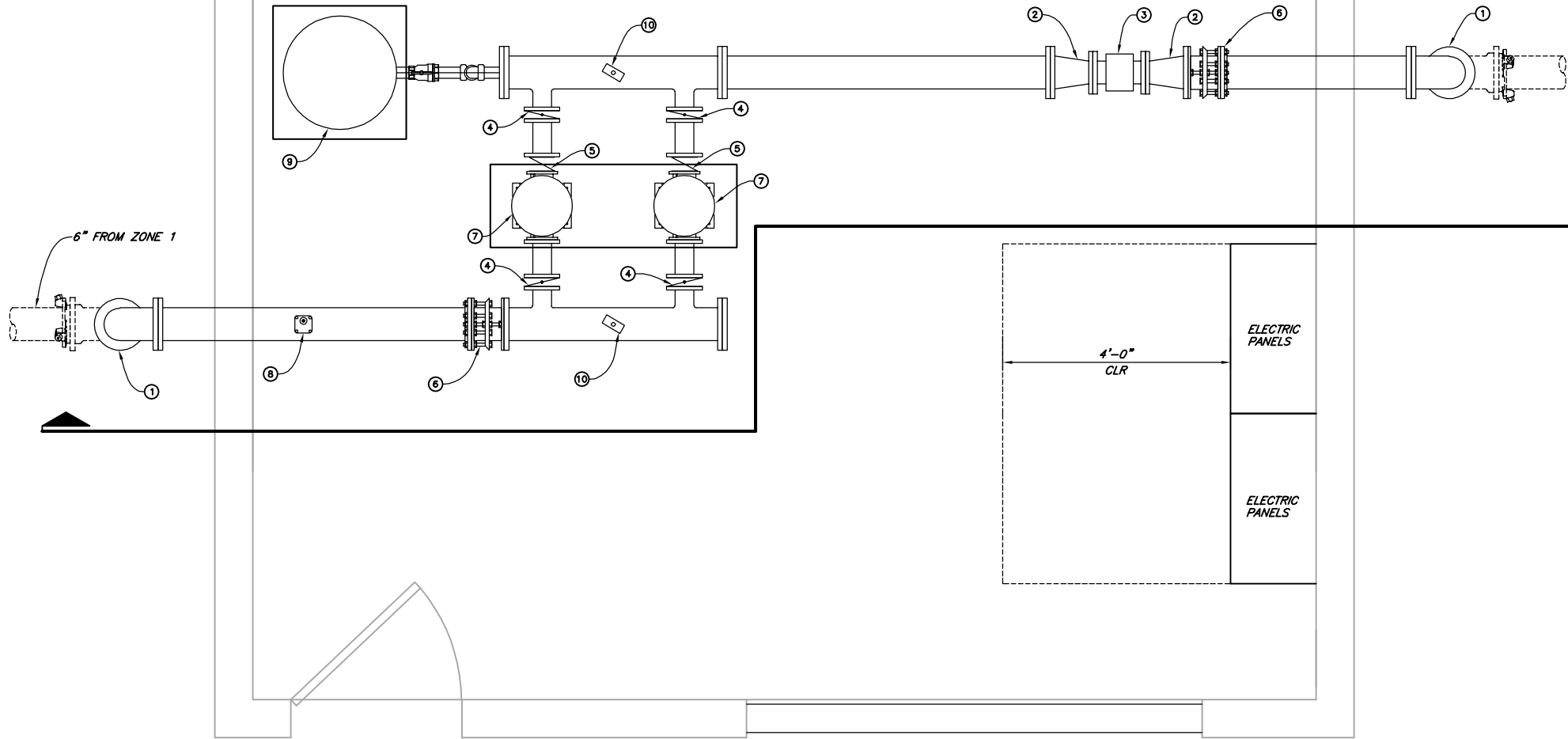


LEGEND

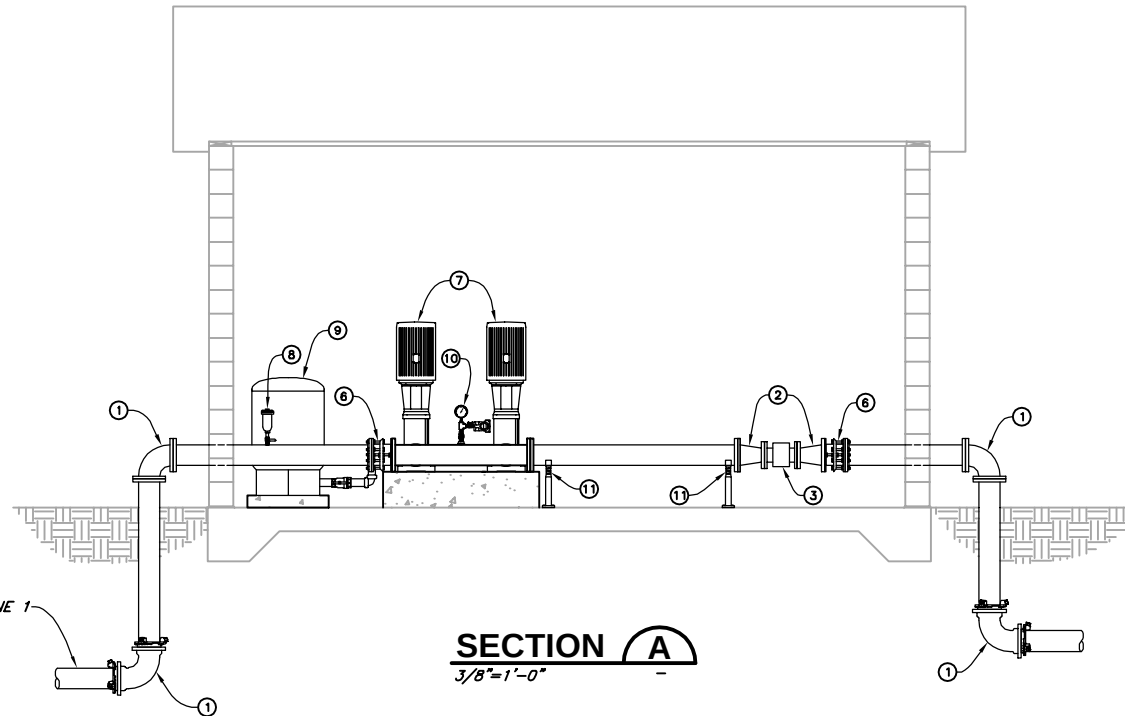
- WETLAND AREA
- SENSITIVE PLANTS COMMUNITY

60% DESIGN

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PROJECT NO. 022067		DATE 09/2023	
SHEET C5.2		SEQ	
DESIGN -		DR CDN/JWF	
CHK JSO		APVD	
GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA ALDERPOINT PUMP STATION AND WATER MAIN PLAN AND PROFILE			



PLAN
 3/4"=1'-0"



SECTION A
 3/8"=1'-0"

KEY NOTES:

- ① 6" DIP EL
 ② 6"x4" DIP REDUCER
 ③ 4" MAG FLOW METER
 ④ 3" BUTTERFLY VALVE, LUG
 ⑤ 3" WAFER SILENT CHECK VALVE
 ⑥ 6" DISMANTLING JOINT
- ⑦ VERTICAL MULTI-STAGE PUMP, 200 GPM @ ~379' TDH, 30 HP
 ⑧ 1" CARV, W/CORP STOP & PIPE NIPPLE
 ⑨ 90 GAL PRESSURE TANK
 ⑩ PRESSURE GAUGE AND TRANSDUCER, SEE DETL X SHT X
- ⑪ SST PIPE SUPPORT
 ⑫ -----
 ⑬ -----
 ⑭ -----
 ⑮ -----
 ⑯ -----

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CHK	JSO				
APVD					

GARBERVILLE SANITARY DISTRICT
 ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT
 GARBERVILLE, CALIFORNIA
**ALDERPOINT PUMP STATION
 MECHANICAL PLAN**

SHEET
C5.4

SEQ

DATE 09/2023

PROJ. NO.
 022067

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PLAN
 1"=20'



LEGEND



WETLAND AREA

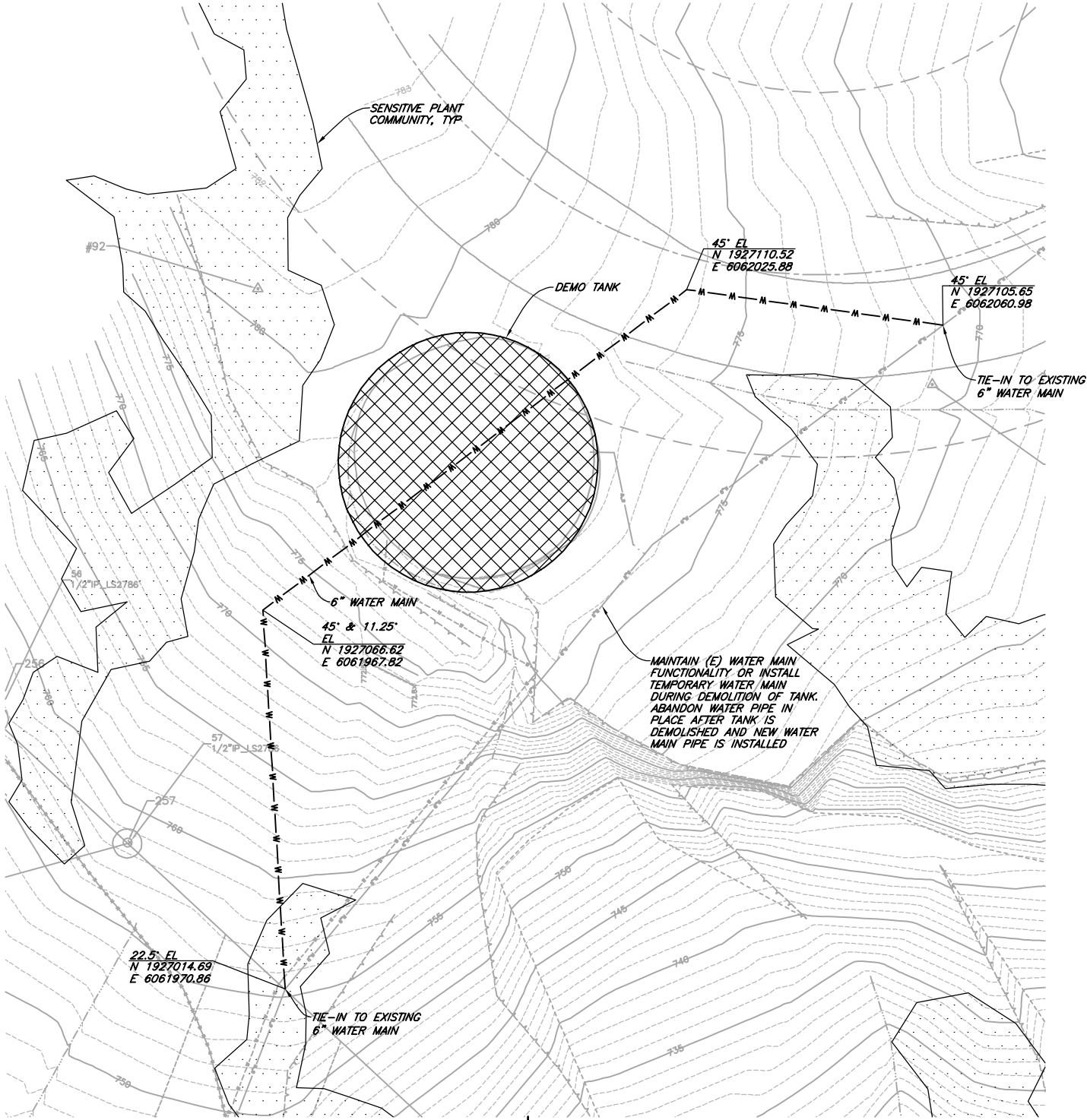


SENSITIVE PLANTS
COMMUNITY

60% DESIGN

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			BY
		REVISION	
		DATE	
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DSGN — DR CDN/JWF CHK JSO APVD	GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA ROBERTSON TANK OVERVIEW		
SHEET			
C6.0			
SEQ			
DATE 09/2023			
PROJ. NO. 022067			

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PLAN
 1"=10'

NOTES:

- ALL DEMOLITION SHALL BE CARRIED OUT IN A MANNER WHICH WILL PREVENT INJURY TO WORKERS AND DAMAGE TO ADJACENT FACILITIES. DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND ORDINANCES. EXISTING MATERIALS AND EQUIPMENT REMOVED BY THE CONTRACTOR SHALL NOT BE REUSED IN THE WORK UNLESS OTHERWISE SPECIFIED, AND BECOME THE CONTRACTORS PROPERTY AND BE REMOVED FROM THE JOB SITE, EXCEPT AS NOTED BELOW.
- TANK DEMOLITION
 - REMOVE TANK ROOF AND SUPPORT STRUCTURE.
 - BREAK A MINIMUM OF FOUR-4 FOOT DIAMETER HOLES THROUGH TANK FLOOR TO PROVIDE DRAINAGE THROUGH TANK.
 - REMOVE TANK WALLS TO 3'-0" BELOW FINISHED GRADE. CONCRETE RUBBLE TO BE PACED EVENLY ACROSS TANK BOTTOM.
 - BACKFILL TANK TO A MINIMUM OF 2 FEET OVER TOP OF CONCRETE RUBBLE WITH CLASS 2 PERMEABLE MATERIAL IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATION SECTION 68-1.025.
 - BACKFILL REMAINING TANK WITH NATIVE MATERIAL TO 6" BELOW FINISHED GRADE. NATIVE MATERIAL TO BE PLACED IN 8-INCH LIFTS AND SHALL BE WITHIN 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT. COMPACT NATIVE MATERIAL TO 90% RELATIVE COMPACTION.
- FINISH GRADE PREPARATION
 - PLACE 6" MINIMUM TOPSOIL OVER BACKFILL.
 - GRADE SMOOTH AND ROLL TO MATCH EXISTING CONTOURS.
 - PLANT ENTIRE RECLAIMED AREA WITH LAWN GRASS AND APPLY FERTILIZER AT MANUFACTURERS RECOMMENDED RATES.
- CONTRACTOR TO PROVIDE PHOTO AND VIDEO SURVEY OF PROPERTY TO DOCUMENT EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK IN THIS AREA.
- CONTRACTOR TO PROTECT IN PLACE ALL LANDSCAPING AND ARCHITECTURAL ELEMENTS. IF DAMAGE OCCURS, THE CONTRACTOR IS TO REPLACE DAMAGED ELEMENTS IN KIND.

LEGEND

- SENSITIVE PLANTS
COMMUNITY
- DEMO

60% DESIGN

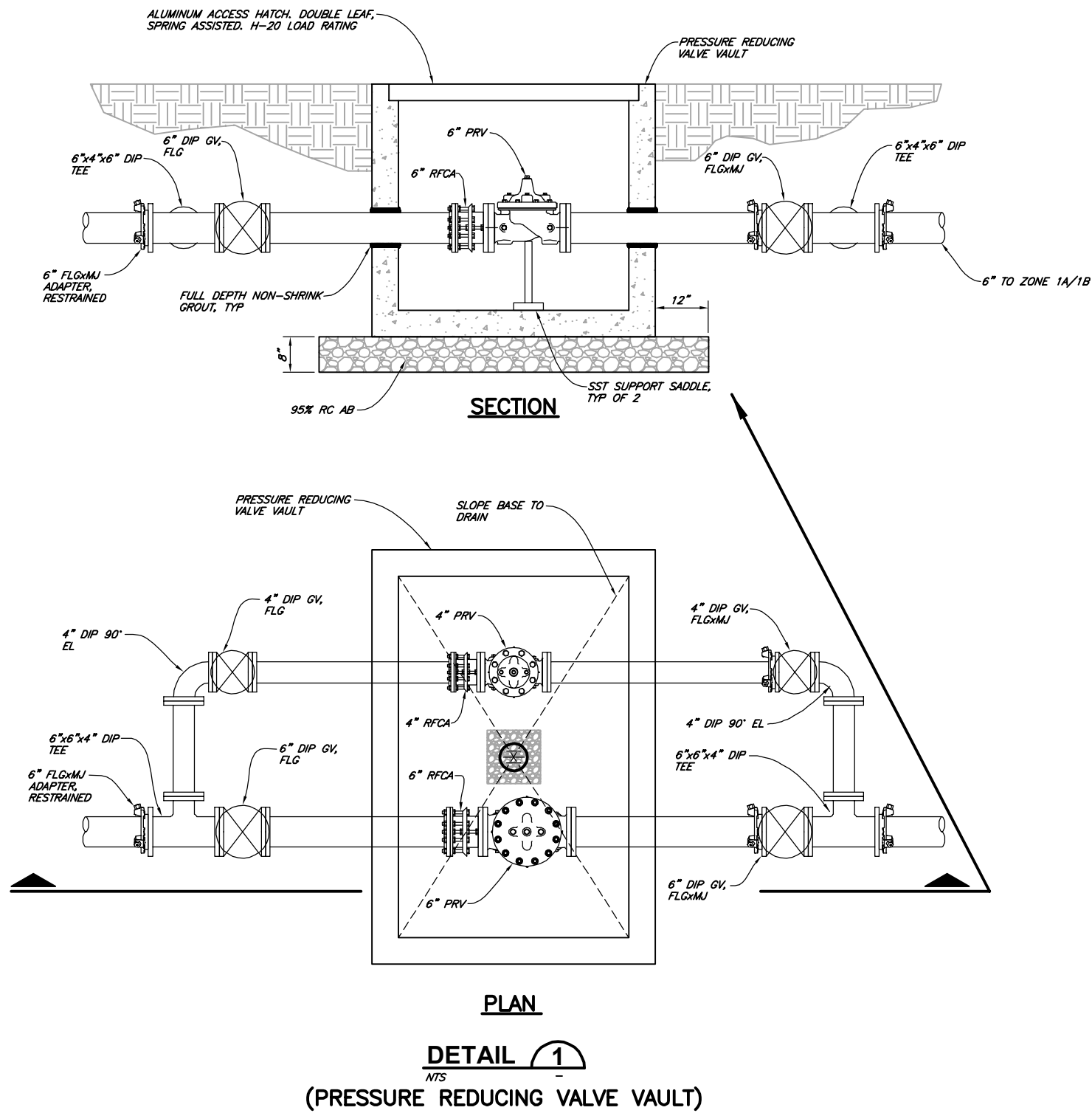
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GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA ROBERTSON TANK DEMOLITION PLAN AND WATER MAIN REPLACEMENT			
SHEET C6.1			
SEQ			
DATE 09/2023			
PROJ. NO. 022067			



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DSGN - DR CDN/JWF CHK JSO APVD		NO.		DATE	
REVISION		BY		NO.	
PROJ. NO. 022067		DATE 09/2023		SEQ	

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60% DESIGN

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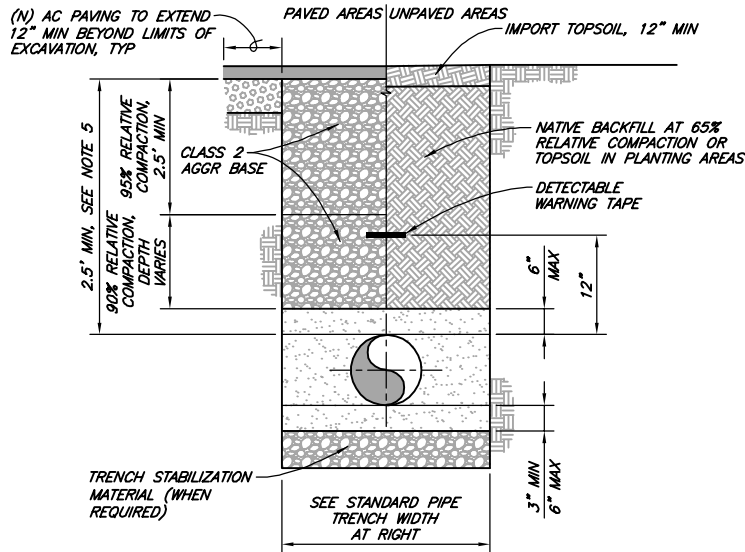
	BY
	REVISION
	DATE
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DSGN -	
DR JWF/CDN	
CHK JSO	
APVD	

GARBERVILLE SANITARY DISTRICT
ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT
GARBERVILLE, CALIFORNIA

CIVIL DETAILS

SHEET	C8.0
SEQ	
DATE	09/2023
PROJ. NO.	022067

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NOTES:

- WIDER TRENCHES MAY REQUIRE HIGHER STRENGTH PIPE AND/OR SPECIAL BEDDING.
- Differing TRENCH WIDTHS REQUIRE PRIOR APPROVAL OF ENGINEER.
- IN MAKING EXCAVATIONS FOR THIS PROJECT, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR PROVIDING AND INSTALLING ADEQUATE SHEETING, SHORING AND BRACING AS MAY BE NECESSARY AS A PRECAUTION AGAINST SLIDES OR CAVE-INS, AND TO PROTECT ALL EXISTING IMPROVEMENTS OF ANY KIND, EITHER ON PUBLIC OR PRIVATE PROPERTY, FULLY FROM DAMAGE.
- SATISFACTORY NATIVE BACKFILL MATERIAL USED AS UTILITY TRENCH BACKFILL BELOW UNPAVED AREAS SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.
- 2-SACK SLURRY BACKFILL MAY BE USED IN TRENCH WHEN MINIMUM PIPE COVER NOT POSSIBLE, WHEN APPROVED BY OWNER'S REPRESENTATIVE.
- CLASS 2 AGGREGATE BASE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION.
- DETECTABLE WARNING TAPE SHALL BE BRIGHT COLORED, CONTINUOUSLY PRINTED, MINIMUM 6" WIDE BY 4 MIL THICK, MANUFACTURED FOR DIRECT BURIAL.
- DETECTABLE WARNING TAPE NOT REQUIRED FOR IRRIGATION LINES.
- GRAVEL ROADS SHALL USE PAVED AREA TRENCH SECTION BUT WITH AGGREGATE BASE TO SURFACE, UNLESS NOTED OTHERWISE.

DETAIL 1
NTS
(TYPICAL TRENCH)

STEM EXTENSION FABRICATION NOTES

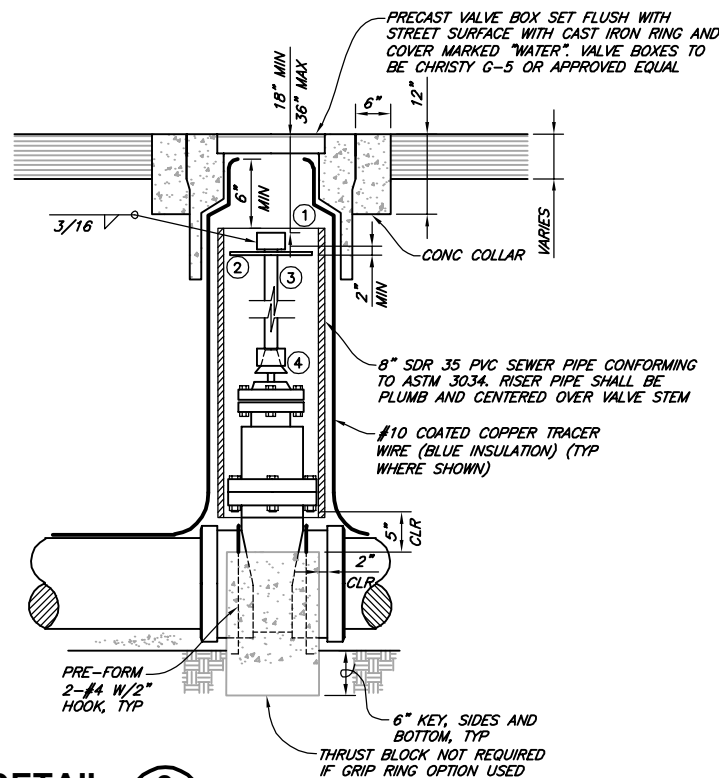
- ALL WELDS TO RISER SHAFT SHALL BE FILLET WELD ALL AROUND, AS SPECIFIED BELOW.
- ALL STEEL REQUIRED FOR RISER FABRICATION SHALL BE STRUCTURAL STEEL PER ASTM A36.

VALVE STEM EXTENTION PARTS LIST

- VALVE OPERATING NUT OR 1-7/8" x 1-7/8" x 2" HIGH, SOLID STEEL WELDED TO RISER SHAFT.
- 1/8" THK x 7-1/2" DIA GUIDE PLATE WELDED TO RISER SHAFT.
- 1-1/2" x 3/16" SQUARE STEEL TUBING, LENGTH AS REQUIRED. EDGE WELD OPERATING NUT AT BOTH ENDS.
- 2-1/2" x 3/16" SQUARE STEEL TUBING 2-1/2" IN LENGTH WELDED TO RISER SHAFT.

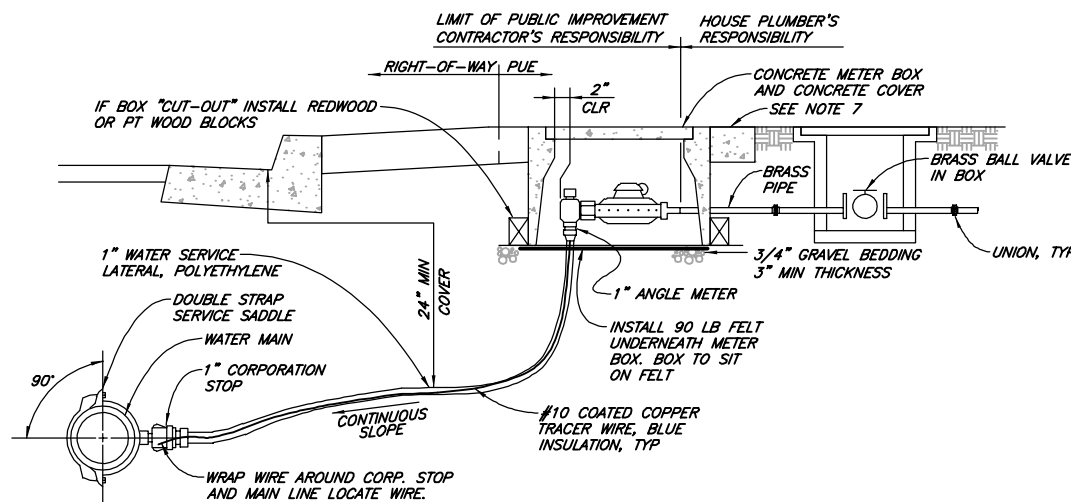
NOTES:

- IF VALVE IS INSTALLED SO THAT THE TOP OF THE OPERATING NUT IS LESS THAN 36" BELOW FINISHED GRADE, THE STEM RISER IS NOT REQUIRED.
- ALL EXTERNAL BOLTS AND NUTS ON VALVES SHALL BE 304 STAINLESS STEEL OR VALVE ASSEMBLY SHALL BE POLY WRAPPED.
- IF ENDLINE VALVE, THEN PROVIDE ADEQUATE THRUST BLOCKING & RESTRAINT OR FLANGED/MJ CONNECTION.
- PROVIDE GLOW, WATERLOUS, OR AVK VALVE.



DETAIL 3
NTS
(GATE VALVE INSTALLATION)

PIPE DIA "D"	MINIMUM "A"	MAXIMUM "A"
<4"	3"	6"
4" TO 6"	6"	12"
6" TO 15"	8"	14"
16" TO 21"	10"	16"
24" TO 30"	12"	18"
33" TO 42"	15"	21"
48" & LARGER	18"	24"



NOTES:

- ALL WATER SERVICE MATERIALS SHALL BE AS SPECIFIED IN THE DESIGN SPECIFICATIONS (OR APPROVED EQUAL).
- FACTORY MANUFACTURED FITTINGS SHALL BE USED EXCLUSIVELY.
- #10 COPPER TRACER WIRE WITH BLUE INSULATION SHALL BE TAPED TO ALL WATER MAINS, SERVICES, AND FITTINGS. TRACER WIRE SHALL BE SECURELY CONNECTED TO THE WATER MAIN TRACER WIRE AT ONE END, AND SHALL TERMINATE IN A LOOP JUST BELOW THE LID IN THE METER BOX AT THE OTHER END.
- ALL WATER SERVICE SADDLES SHALL HAVE ALL EXPOSED NUTS AND BOLTS COMPLETELY COVERED WITH SPRAY-ON RUBBERIZED UNDERCOATING.
- CONNECTIONS BETWEEN FITTINGS AND WATER SERVICE PIPING SHALL BE MADE WITH PACK JOINTS, AND STAINLESS STEEL INSERT STIFFENERS SHALL BE USED AS NEEDED WHEN CONNECTING WATER SERVICE PIPING TO PACK JOINTS.
- NEW WATER SERVICES SHALL BE PUSHED OR BORED UNDER EXISTING SIDEWALK UNLESS NOTED OTHERWISE.
- WHERE NO SIDEWALK EXISTS, CONSTRUCT A 4" THICK BY 6" CLEAR WIDTH CONCRETE COLLAR PAD FOR METER BOX SET.
- PRIOR TO METER SET, ADDRESS TO BE CLEARLY MARKED ON UNDERSIDE BOX LID WITH PERMANENT FELT MARKER.

DETAIL 2
NTS
(WATER SERVICE)

HORIZONTAL BENDS, DEAD ENDS, AND INLINE VALVES

Pipe Size	1 1/2" Bend	2 1/2" Bend	4 1/2" Bend	90° Bend	Dead End & Inline Valve
3"	2'	3'	6'	13'	38'
4"	2'	3'	6'	14'	43'
6"	2'	4'	8'	19'	60'
8"	3'	5'	11'	25'	78'
10"	4'	6'	13'	30'	94'
12"	4'	7'	15'	35'	111'
14"	4'	8'	17'	40'	128'
16"	5'	9'	19'	44'	143'
18"	5'	10'	20'	48'	158'

TEES RUN SIZE	3"	4"	6"	8"	10"	12"	14"	16"	18"
BRANCH SIZE	3"	4"	6"	8"	10"	12"	14"	16"	18"
REQUIRED LENGTH (L) OF RESTRAINED PIPE (ON EACH SIDE OF TEE)	3'	4'	6'	8'	10'	12'	14'	16'	18'

NOTE: ALL TEE RUNS SHALL HAVE 10' MINIMUM RESTRAINED RUN LENGTH ON EACH SIDE OF TEE.

REDUCERS

REDUCERS	3"	4"	6"	8"	10"	12"	14"	16"	18"
REQUIRED LENGTH (L) OF RESTRAINED PIPE (ON LARGE SIDE OF REDUCER)	3'	4'	6'	8'	10'	12'	14'	16'	18'

VERTICAL OFFSET

VERTICAL OFFSET	L1	L2
3"	4'	17'
4"	4'	18'
6"	5'	25'
8"	7'	35'
10"	8'	39'
12"	9'	46'
14"	11'	54'
16"	12'	59'
18"	13'	66'

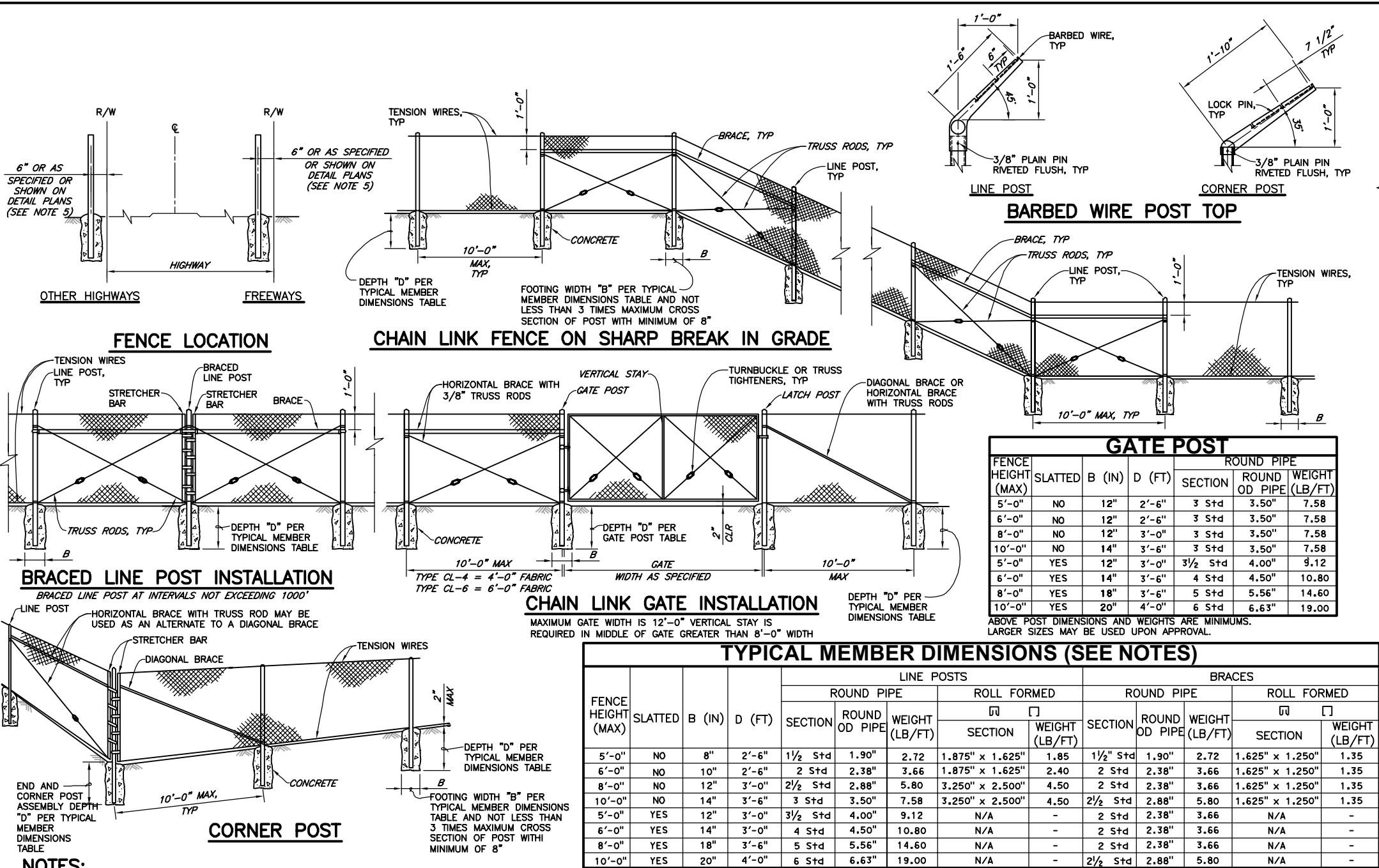
NOTE: RESTRAINED JOINT LENGTHS BASED ON 45° FITTINGS.

NOTES:

- JOINT RESTRAINT DEVICES SHALL BE USED IN LIEU OF THRUST BLOCKING FOR ALL PRESSURE MAIN AND APPURTENANCE INSTALLATIONS UNLESS PROJECT PLANS OR DESIGN CONDITIONS SPECIFICALLY REQUIRE THRUST BLOCKING.
- THE RESTRAINED LENGTHS LISTED IN THE ABOVE TABLES ARE VALID FOR THE FOLLOWING INSTALLATION CONDITIONS:
SOIL CLASSIFICATION: GW (ASTM STD. D2487); INCLUDES CLASS 2 AGGREGATE BASE BACKFILL
TRENCH TYPE: TYPE 5 (AASHTO C605)
TEST PRESSURE: 150 PSI
SAFETY FACTOR: 2 TO 1
DEPTH OF BURY: 36" FROM SURFACE TO TOP OF PIPE
PIPE TYPE: PVC C900
WHERE INSTALLATION CONDITIONS DO NOT MATCH THOSE LISTED ABOVE, THE RESTRAINED LENGTHS SHALL BE RECALCULATED TO SUIT THE ACTUAL SITE CONDITIONS. ALL REVISED CALCULATIONS SHALL BE MADE WITH A TEST PRESSURE OF 150 PSI MINIMUM AND A SAFETY FACTOR OF 2. REVISED RESTRAINED LENGTHS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PIPE INSTALLATION.
- ALL RESTRAINT FITTINGS SHALL BE FACTORY MANUFACTURED AND APPROVED FOR USE BY THE ENGINEER PRIOR TO PIPE INSTALLATION. THE FOLLOWING RESTRAINT FITTINGS HAVE BEEN PREQUALIFIED FOR USE:
MECHANICAL JOINT GLANDS: ROMAC 'GRIPRING' PIPE RESTRAINER
EBBA IRON SERIES 2000 FV
BELL AND SPIGOT JOINTS: ROMAC MODEL 611 (4" THROUGH 8")
EBBA IRON SERIES 1600 (4" THROUGH 12")
EBBA IRON SERIES 2800 (14" THROUGH 36")
- ALL MECHANICAL JOINT CONNECTIONS AT FITTINGS SHALL BE RESTRAINED.

DETAIL 4
NTS
(RESTRAINED JOINTS)

60% DESIGN



GATE POST						
FENCE HEIGHT (MAX)	SLATTED	B (IN)	D (FT)	ROUND PIPE		
				SECTION	ROUND OD PIPE	WEIGHT (LB/FT)
5'-0"	NO	12"	2'-6"	3 Std	3.50"	7.58
6'-0"	NO	12"	2'-6"	3 Std	3.50"	7.58
8'-0"	NO	12"	3'-0"	3 Std	3.50"	7.58
10'-0"	NO	14"	3'-6"	3 Std	3.50"	7.58
5'-0"	YES	12"	3'-0"	3 1/2 Std	4.00"	9.12
6'-0"	YES	14"	3'-6"	4 Std	4.50"	10.80
8'-0"	YES	18"	3'-6"	5 Std	5.56"	14.60
10'-0"	YES	20"	4'-0"	6 Std	6.63"	19.00

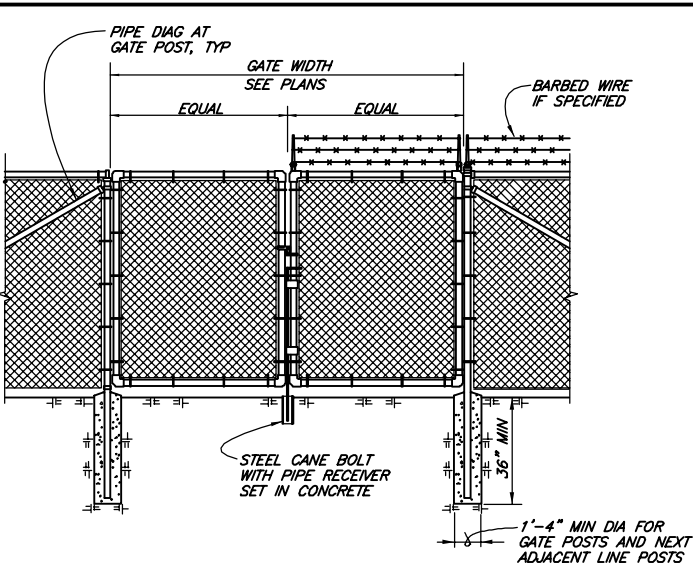
ABOVE POST DIMENSIONS AND WEIGHTS ARE MINIMUMS. LARGER SIZES MAY BE USED UPON APPROVAL.

TYPICAL MEMBER DIMENSIONS (SEE NOTES)													
FENCE HEIGHT (MAX)	SLATTED	B (IN)	D (FT)	LINE POSTS					BRACES				
				ROUND PIPE			ROLL FORMED		ROUND PIPE			ROLL FORMED	
				SECTION	ROUND OD PIPE	WEIGHT (LB/FT)			SECTION	ROUND OD PIPE	WEIGHT (LB/FT)		
							SECTION	WEIGHT (LB/FT)				SECTION	WEIGHT (LB/FT)
5'-0"	NO	8"	2'-6"	1½ Std	1.90"	2.72	1.875" x 1.625"	1.85	1½ Std	1.90"	2.72	1.625" x 1.250"	1.35
6'-0"	NO	10"	2'-6"	2 Std	2.38"	3.66	1.875" x 1.625"	2.40	2 Std	2.38"	3.66	1.625" x 1.250"	1.35
8'-0"	NO	12"	3'-0"	2½ Std	2.88"	5.80	3.250" x 2.500"	4.50	2 Std	2.38"	3.66	1.625" x 1.250"	1.35
10'-0"	NO	14"	3'-6"	3 Std	3.50"	7.58	3.250" x 2.500"	4.50	2½ Std	2.88"	5.80	1.625" x 1.250"	1.35
5'-0"	YES	12"	3'-0"	3½ Std	4.00"	9.12	N/A	-	2 Std	2.38"	3.66	N/A	-
6'-0"	YES	14"	3'-0"	4 Std	4.50"	10.80	N/A	-	2 Std	2.38"	3.66	N/A	-
8'-0"	YES	18"	3'-6"	5 Std	5.56"	14.60	N/A	-	2 Std	2.38"	3.66	N/A	-
10'-0"	YES	20"	4'-0"	6 Std	6.63"	19.00	N/A	-	2½ Std	2.88"	5.80	N/A	-

NOTES:

- THE TABLE TO THE RIGHT SHOWS MINIMUM SIZED POSTS AND BRACES COMPLYING WITH THE SPECIFICATIONS. LARGER OR HEAVIER POST AND BRACE SIZES MAY BE USED UPON APPROVAL.
- SECTIONS SHOWN IN THE TABLES MUST ALSO COMPLY WITH STRENGTH REQUIREMENTS AND OTHER PROVISIONS OF THE SPECIFICATIONS.
- OTHER SECTIONS WHICH COMPLY WITH THE STRENGTH REQUIREMENTS AND OTHER PROVISIONS OF THE SPECIFICATIONS MAY BE USED UPON APPROVAL.
- OPTIONS EXERCISED SHALL BE UNIFORM ON ANY ONE PROJECT.
- OFFSET TO BE 2'-0" AT MONUMENT LOCATIONS, MEASURED AT RIGHT ANGLES TO R/W LINES. TAPER TO ACHIEVE OFFSET TO BE AT LEAST 20'-0" LONG.
- SEE STANDARD PLAN A85B FOR BRACE, STRETCHER BAR, AND TRUSS TIGHTENER DETAILS.

DETAIL 1
 NTS
 (SECURITY FENCE)

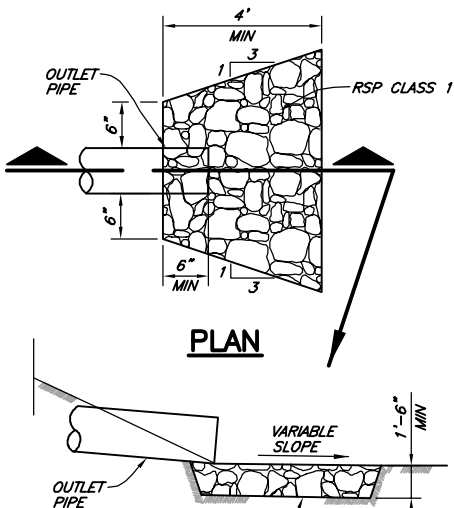


NOTE:

- LATCH MECHANISM SHALL BE LOCKABLE. FREE END OF GATES SHALL BE EQUIPPED WITH DEVICES TO HOLD BOTH GATES IN THE OPEN POSITION.
- FENCE AND DOUBLE LEAF SWING GATE PER CALTRANS STANDARD DETAIL A-85.

DETAIL 2
 NTS

(CHAIN LINK DOUBLE-SWING GATE)



SECTION

DETAIL 3
 NTS
 (RSP ENERGY DISSIPATOR)

60% DESIGN

60% DESIGN

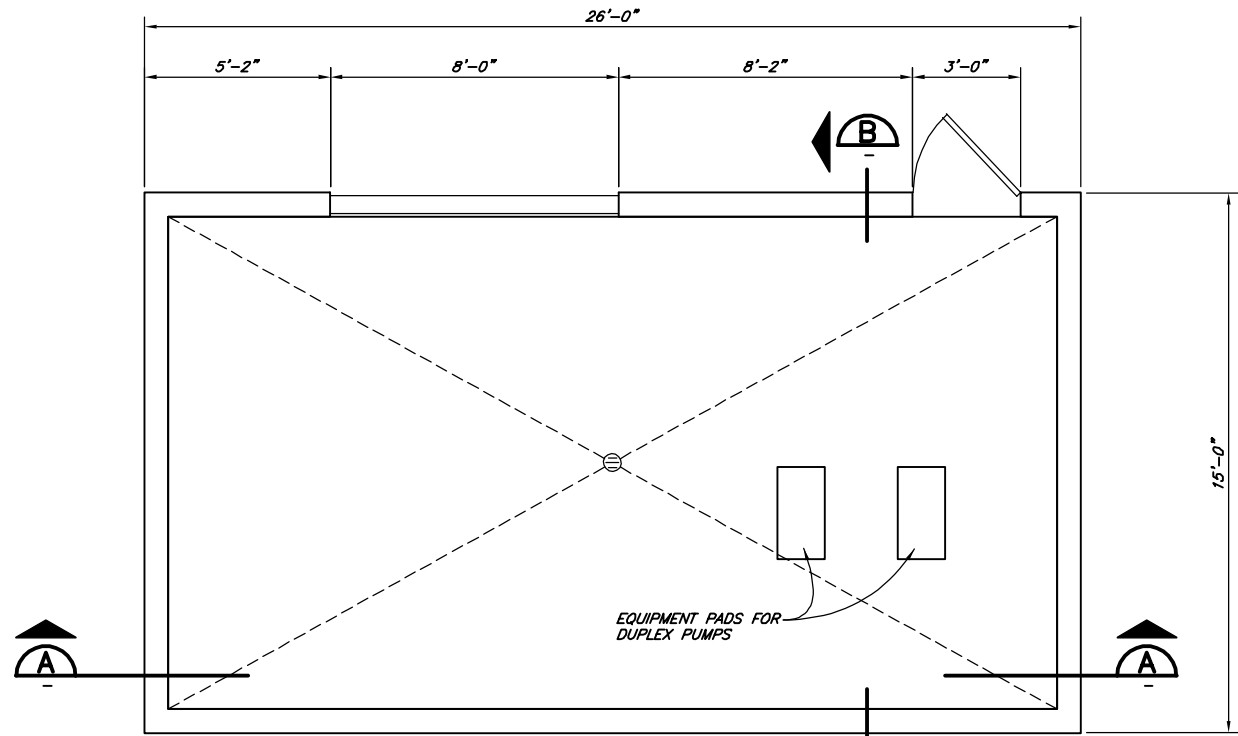
SHEET		S0.1		VERIF. SCALES	
SEQ				BBS IS ONE INCH ON ORIGINAL DRAWING	
DATE		09/2023		0 1"	
PROJ. NO.		022067		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
PROJECT		GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGR.COM 707-441-8855	
DESIGN		PEG		BY	
DR		JWF/CDN		REVISION	
CHK		JSO		DATE	
APVD				NO.	
STRUCTURAL NOTES AND LEGEND					

60% DESIGN

SHEET S0.2		DATE 09/2023		PROJ. NO. 022067		DSGN DR JWF/CDN CHK JSO APVD		PEG JWF/CDN JSO		NO.		DATE		REVISION		BY		 812 W. WABASH AVE. EUREKA, CA 95501 WWW.S&W-ENG.COM 707-441-8855		VERIFY SCALES THIS IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	
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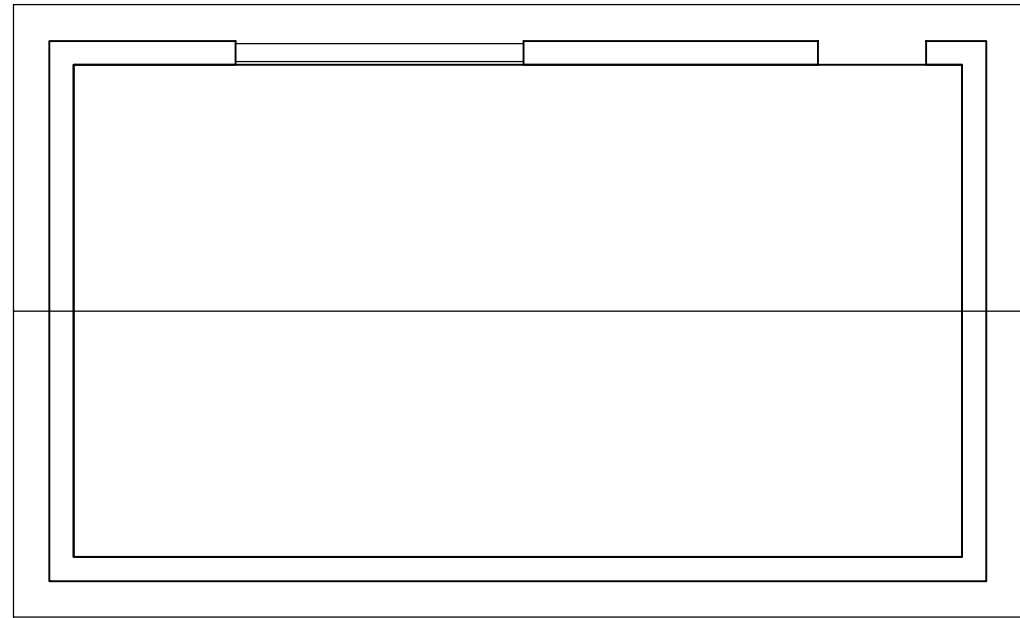
GARBERVILLE SANITARY DISTRICT
 ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT
 GARBERVILLE, CALIFORNIA
STRUCTURAL SPECIAL INSPECTIONS

SAVED: 9/29/2023 12:40 PM JFOSTER, PLOTTED: 10/4/2023 8:24 AM NEWELL, CHRIS
 F:\Eureka\2022\022067-GSD-Water\Draws\022067-STRUCT-UPPR-MPL-LN-PMP-STA.dwg

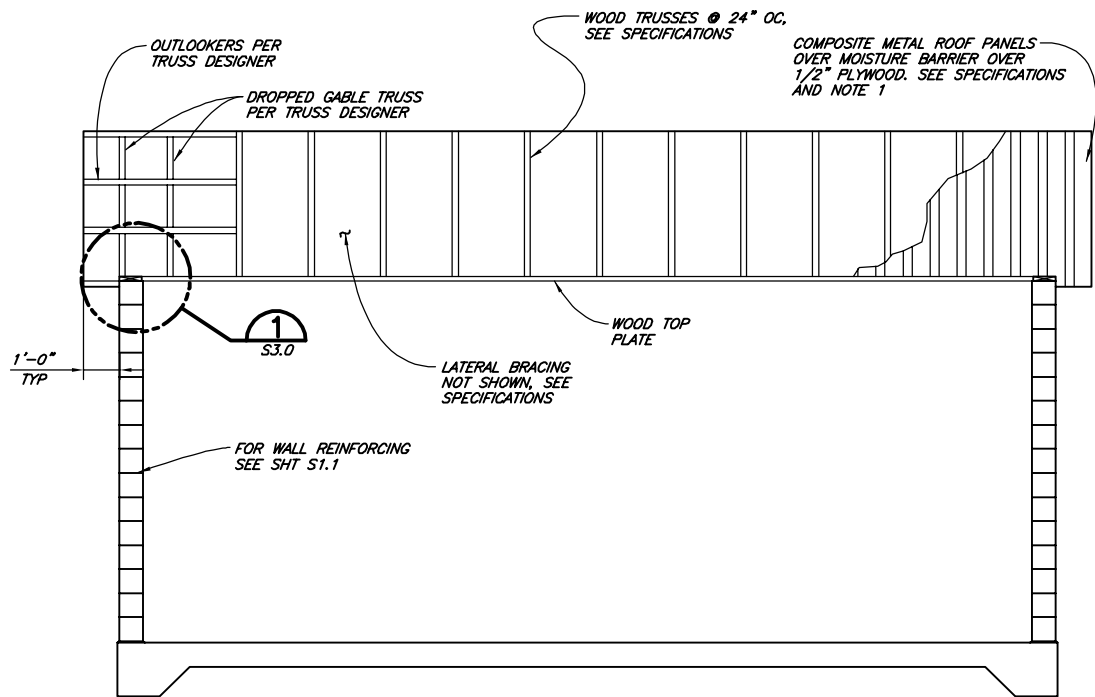


NOTE:
 f =4,000 PSI
 f =60,000 PSI

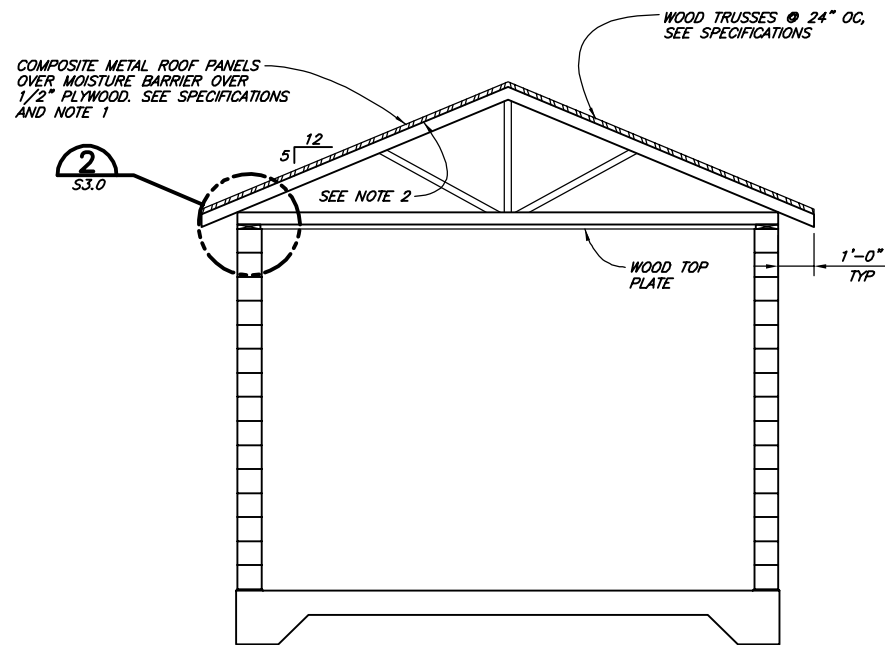
FLOOR PLAN
 3/8"=1'-0"



ROOF PLAN
 3/8"=1'-0"



SECTION A
 3/8"=1'-0"



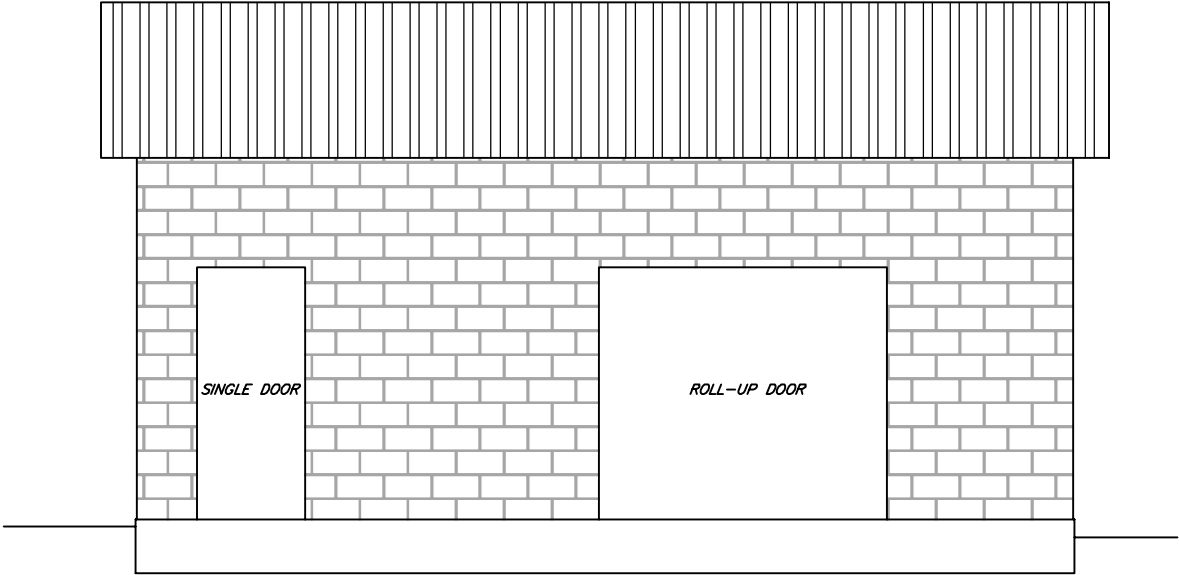
SECTION B
 3/8"=1'-0"

- NOTES:**
 1. PLYWOOD SHALL HAVE PANEL SPAN RATING ROOF/FLOOR OF 24/16. PROVIDE EDGE SUPPORT.
 2. PAINT INTERIOR FACE OF PLYWOOD WITH ONE COAT OF PRIMER AND TWO COATS OF ENAMEL. COLOR TO BE APPROVED BY OWNER.
 3. ALL DIMENSIONS FOR OPENINGS IN CMU ARE NOMINAL. CONTRACTOR TO ADJUST PER BLOCK CONSTRUCTION.

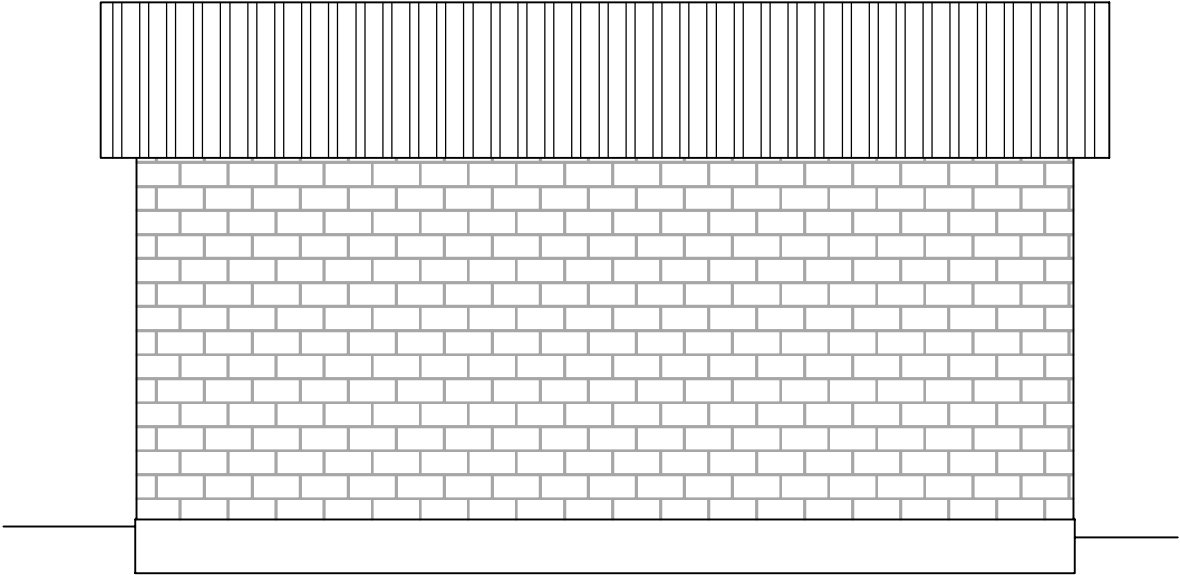
60% DESIGN

GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA										UPPER MAPLE LANE PUMP STATION PLAN AND SECTIONS									
SHEET										S1.0									
SEQ																			
DATE										09/2023									
PROJ. NO.										022067									
DSGN										PEG									
DR										JWF/CDN									
CHK										JSO									
APVD																			
										NO.									
										DATE									
										REVISION									
										BY									
										812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ENGINEER.COM 707-441-8855									
VERIFY SCALES										B/S IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY									

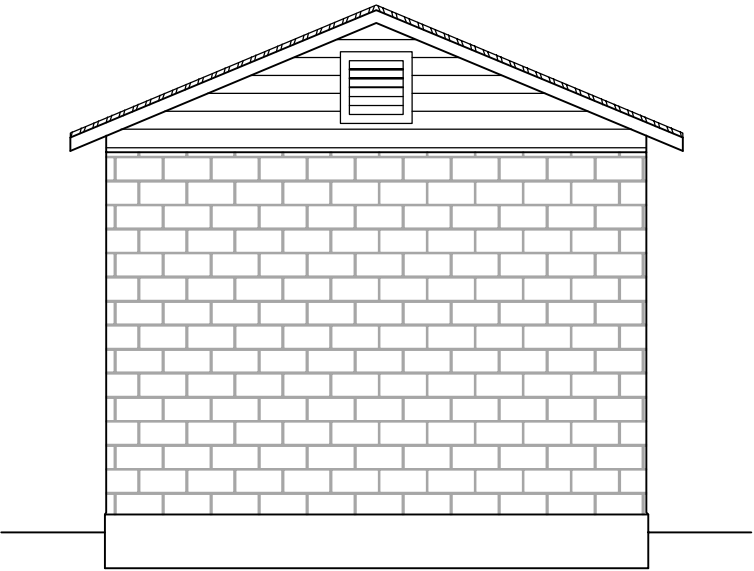
SAVED: 9/29/2023 12:40 PM JFOSTER, PLOTTED: 10/4/2023 8:24 AM NEWELL, CHRIS
 P:\Eureka\2022\022067-GSD-Water\Draws\022067-STRUCT-UPPR-MPL-LN-PMP-STA.dwg



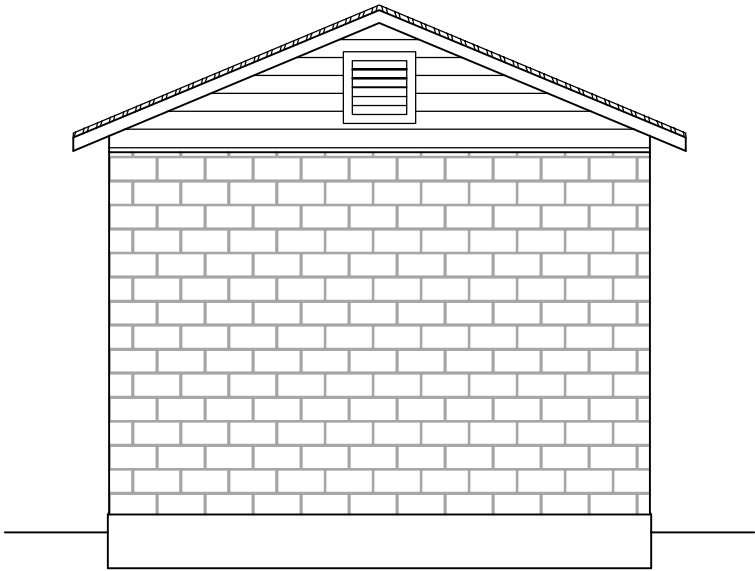
NORTH ELEVATION
 3/8"=1'-0"



SOUTH ELEVATION
 3/8"=1'-0"



EAST ELEVATION
 3/8"=1'-0"

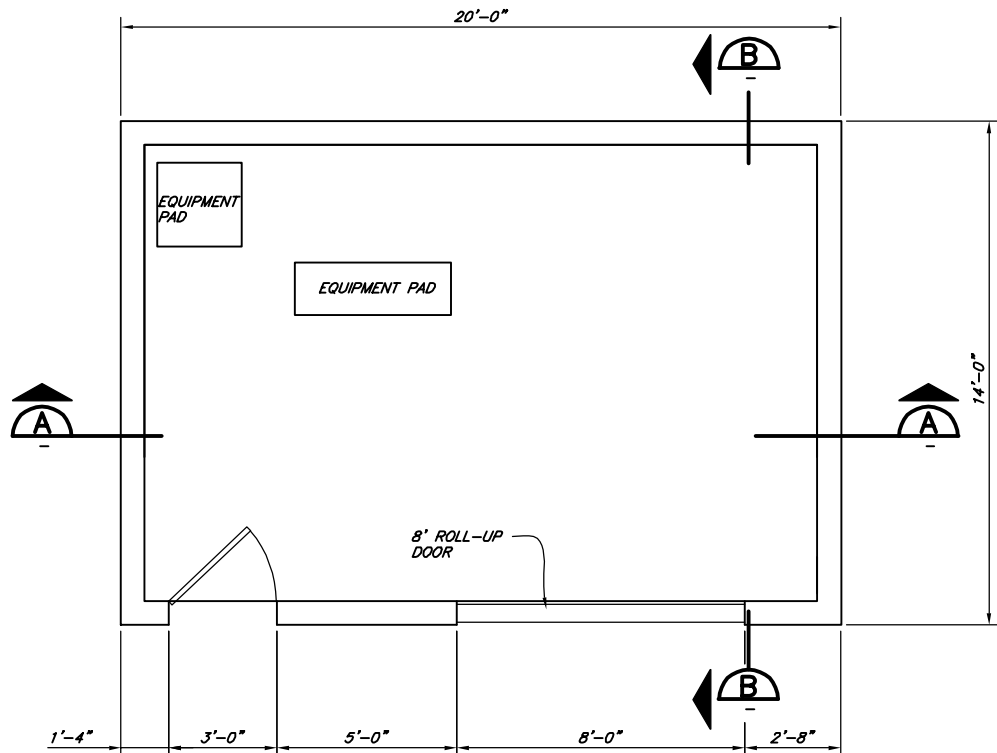


WEST ELEVATION
 3/8"=1'-0"

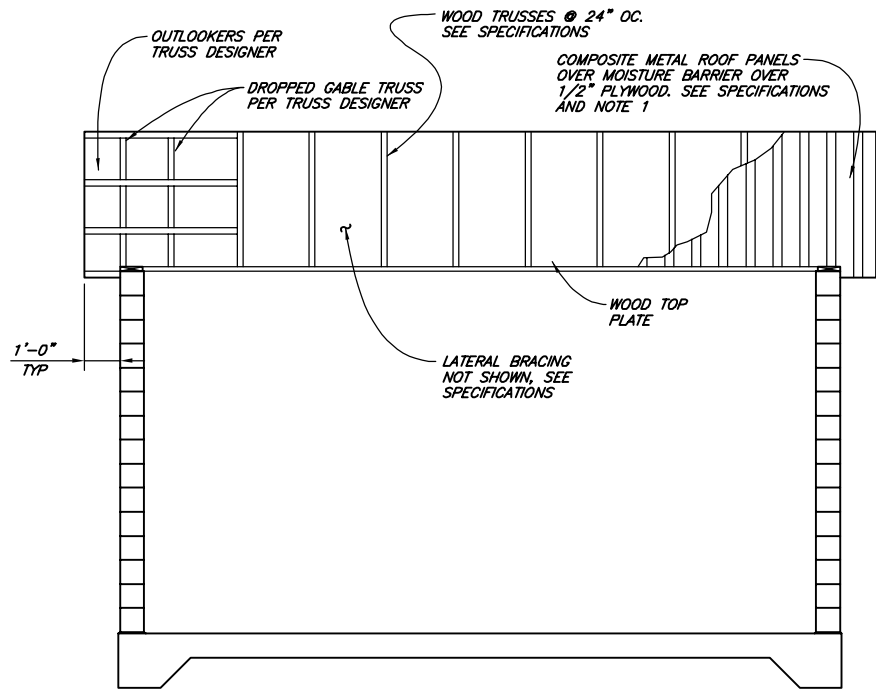
60% DESIGN

VERIFY SCALES THIS SHEET SHALL BE BASED ON THE ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY			
812 W. WABASH AVE. EUREKA, CA. 95501 WWW.SHN-ENGR.COM 707-441-8855			
			BY
REVISION			NO.
DATE			NO.
DSGN PEG DR JWF/CDN CHK JSO APVD			NO.
GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA UPPER MAPLE LANE PUMP STATION REINFORCING DETAILS			
SHEET S1.1			
SEQ			
DATE 09/2023			
PROJ. NO. 022067			

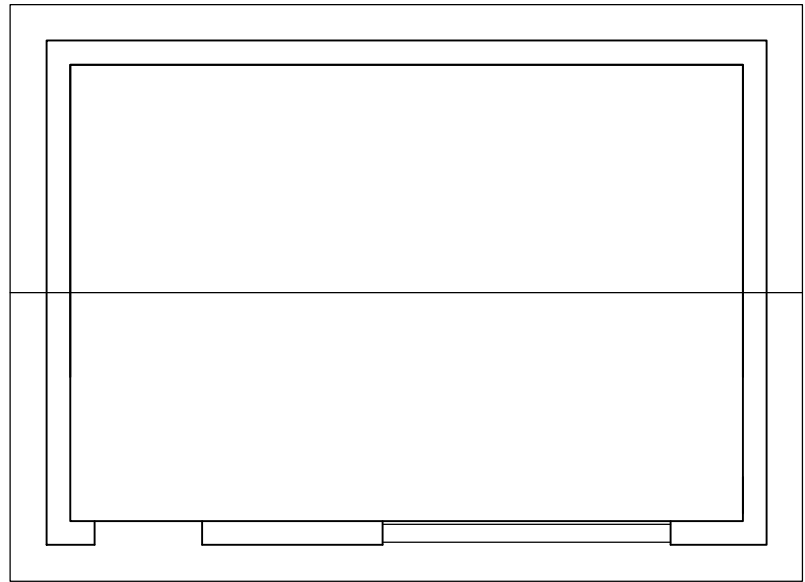
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 P:\Eureka\2022\022067-GSD-Water\Draws\STRUCT-ALDRPNT-PMP-STA.dwg



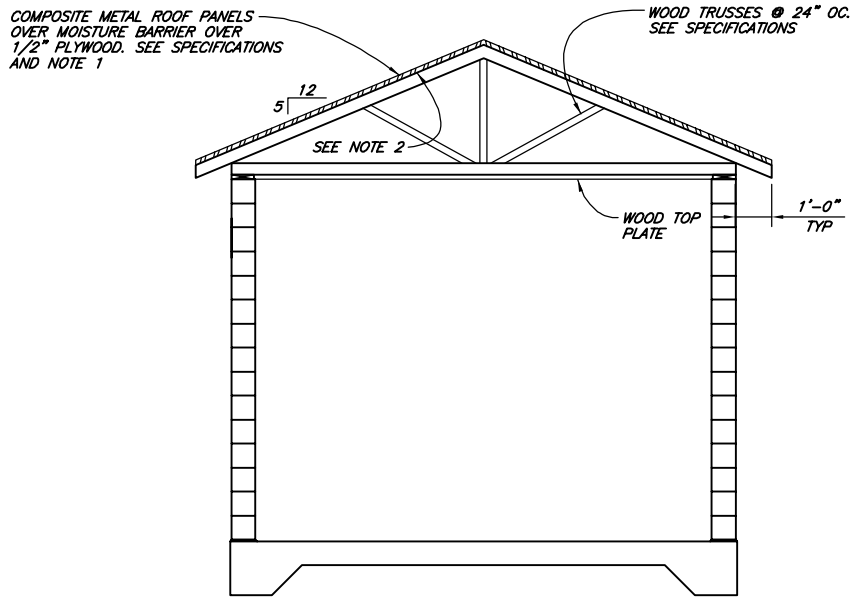
NOTE: **FLOOR PLAN**
 f = 4,000 PSI
 f = 60,000 PSI
 3/8"=1'-0"



SECTION A
 3/8"=1'-0"



ROOF PLAN
 3/8"=1'-0"



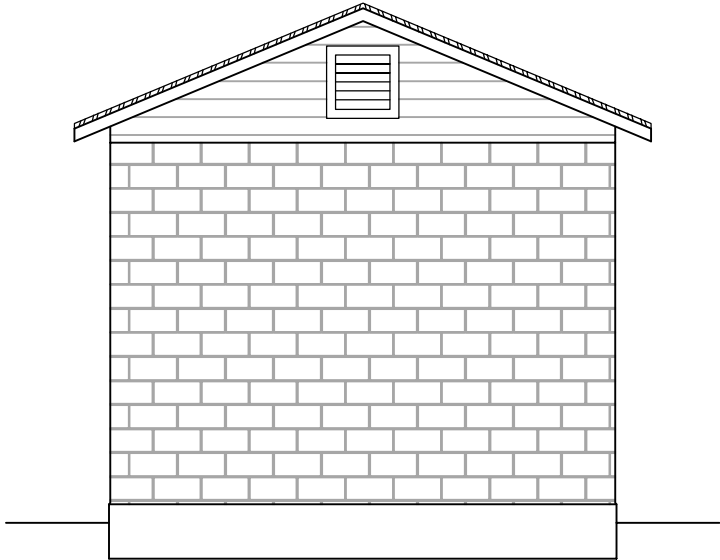
SECTION B
 3/8"=1'-0"

- NOTES:**
- PLYWOOD SHALL HAVE PANEL SPAN RATING ROOF/FLOOR OF 24/16. PROVIDE EDGE SUPPORT.
 - PAINT INTERIOR FACE OF PLYWOOD WITH ONE COAT OF PRIMER AND TWO COATS OF ENAMEL. COLOR TO BE APPROVED BY OWNER.
 - ALL DIMENSIONS FOR OPENINGS IN CMU ARE NOMINAL, CONTRACTOR TO ADJUST PER BLOCK CONSTRUCTION.

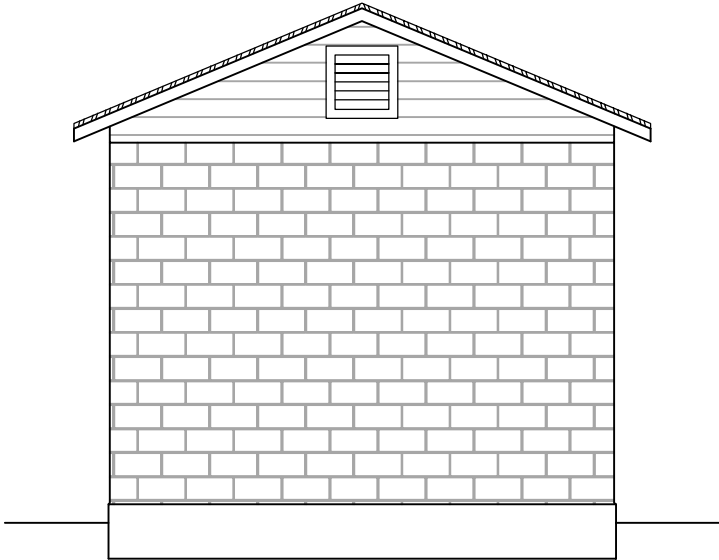
60% DESIGN

VERIFY SCALES B.B. IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ESR.COM 707-441-8855			
DSGN	-	DR	CDN/JWF	CHK	JSO
APVD					
GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA ALDERPOINT PUMP STATION PLAN AND SECTIONS					
SHEET		S2.0		SEQ	
DATE		09/2023		PROJ. NO.	
				022067	

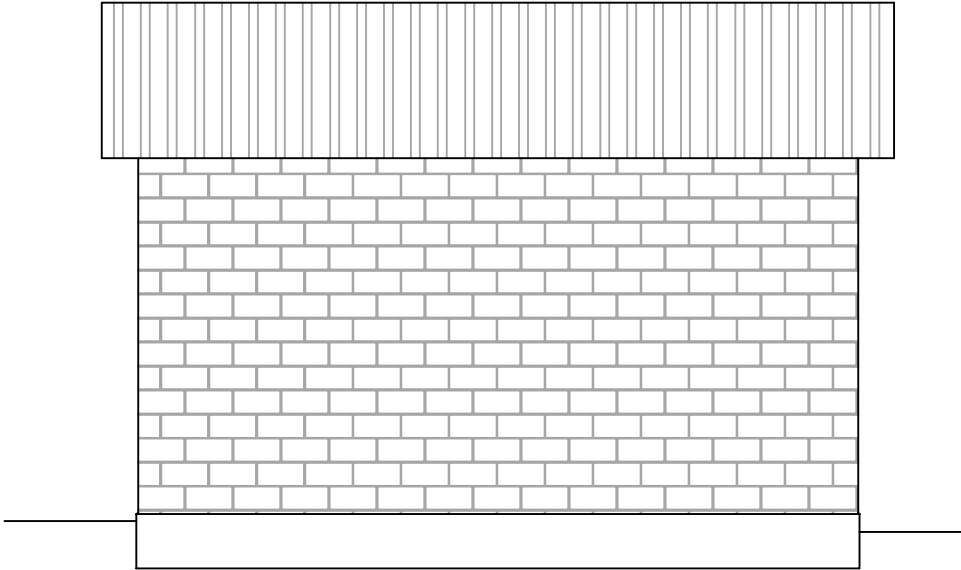
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 P:\Eureka\2022\022067-GSD-Water\Draws\STRUCT-ALDRPNT-RMP-STA.dwg



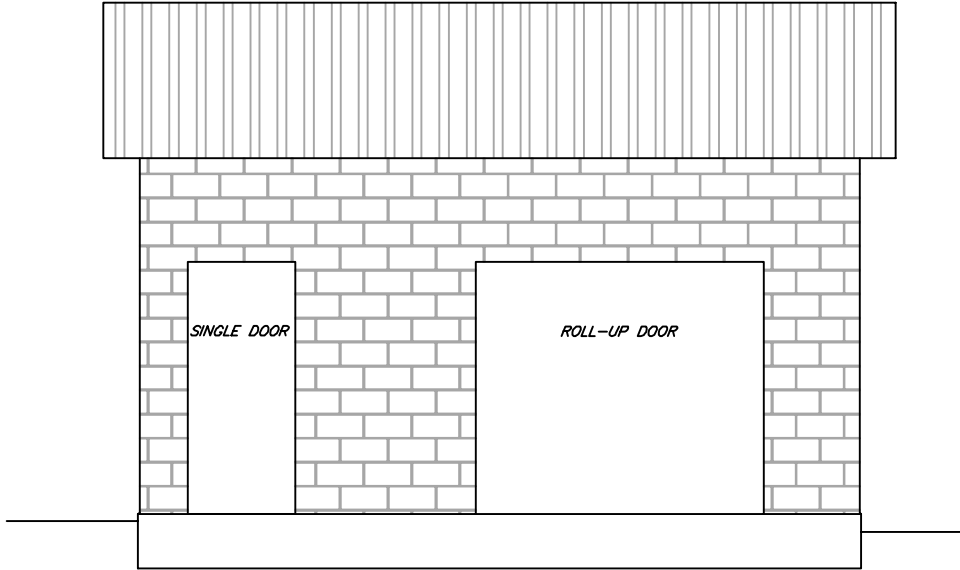
NORTH ELEVATION
 3/8"=1'-0"



SOUTH ELEVATION
 3/8"=1'-0"



EAST ELEVATION
 3/8"=1'-0"

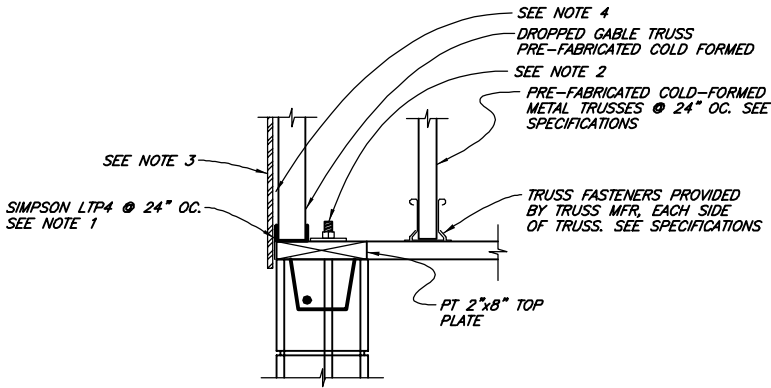


WEST ELEVATION
 3/8"=1'-0"

60% DESIGN

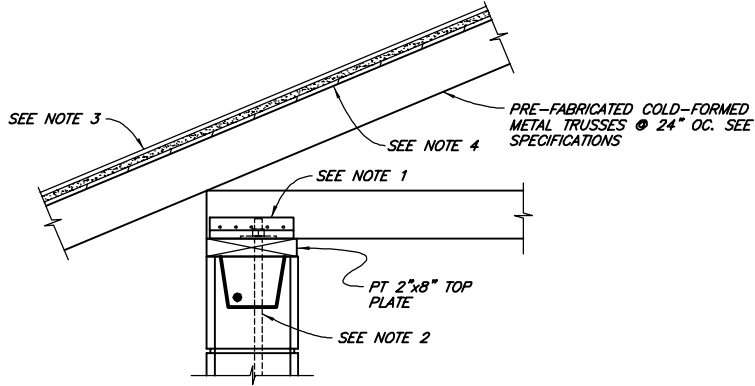
VERIFY SCALES BB IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET ADJUST SCALES ACCORDINGLY		812 W. WABASH AVE. EUREKA, CA 95501 WWW.SHN-ESR.COM 707-441-8855									
DSGN DR CDN/JWF CHK JSO APVD		NO.		DATE		REVISION		BY			
GARBERVILLE SANITARY DISTRICT ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT GARBERVILLE, CALIFORNIA ALDERPOINT PUMP STATION REINFORCING DETAILS											
SHEET S2.1		SEQ		DATE 09/2023		PROJ. NO. 022067					

9/28/2023 12:04 PM JFOSTER, PLOTTED: 10/4/2023 8:24 AM NEWELL, CHRIS
 F:\Eureka\2022\022067-GSD-Water\Draws\022067-STRUC-DTL.S.dwg



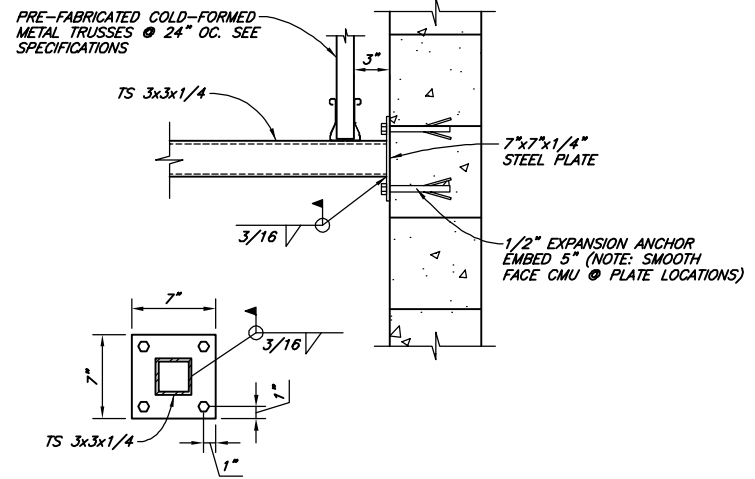
- NOTES:**
1. NAIL LTP4 TO TOP PLATE PER SIMPSON INSTRUCTIONS. SCREW TO TRUSS W/6-#10 SELF-DRILLING SCREWS.
 2. 5/8" DIA ANCHOR BOLTS W/15" MIN EMBEDMENT. PLACE IN GROUTED CELLS. DO NOT EXCEED 48" OC SPACING. INSTALL W/1/4x3x3" WASHER.
 3. COMPOSITE METAL WALL PANELS TO MATCH ROOFING OVER MOISTURE BARRIER OVER 1/2" PLYWOOD SHEETING. SEE SPECIFICATIONS.
 4. PAINT INTERIOR FACE OF PLYWOOD WITH ONE COAT OF PRIMER AND TWO COATS OF ENAMEL. COLOR TO BE APPROVED BY OWNER.

DETAIL 1
NTS S1.0,S2.0
(CORNER CONNECTION)

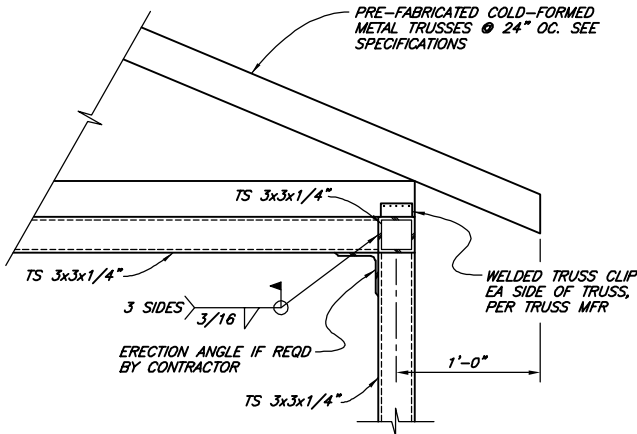


- NOTES:**
1. TRUSS FASTENERS EACH SIDE OF TRUSS. PROVIDED BY TRUSS MFR.
 2. 5/8" DIA ANCHOR BOLTS W/15" MIN EMBEDMENT. PLACE IN GROUTED CELLS. DO NOT EXCEED 48" OC SPACING. INSTALL W/1/4x3x3" WASHER.
 3. COMPOSITE METAL ROOF PANELS OVER MOISTURE BARRIER OVER 1/2" PLYWOOD. SEE SPECIFICATIONS.
 4. PAINT INTERIOR FACE OF PLYWOOD WITH ONE COAT OF PRIMER AND TWO COATS OF ENAMEL. COLOR TO BE APPROVED BY OWNER.

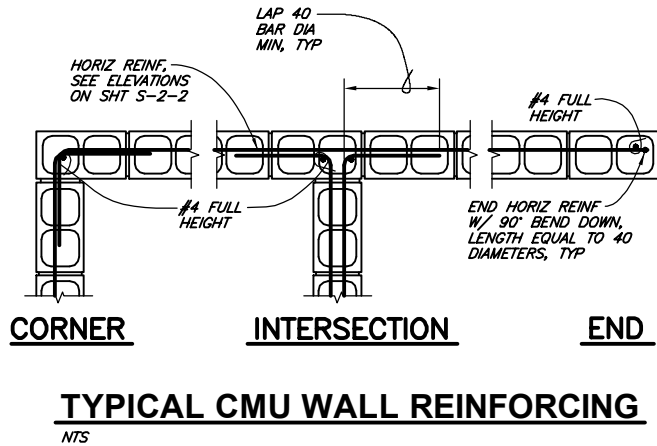
DETAIL 2
NTS S1.0,S2.0
(CORNER CONNECTION)



DETAIL 3
NTS
(ROOF SUPPORT CONNECTION)



DETAIL 4
NTS S1.0,S2.0
(CORNER CONNECTION)



TYPICAL CMU WALL REINFORCING
NTS

60% DESIGN

VERIFY SCALES		812 W. WABASH AVE. EUREKA, CA. 95501 WWW.SHN-ENGINEER.COM 707-441-8855		BY	
BAS IS ONE INCH ON ORIGINAL DRAWING		0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		REVISION	
DSGN		DR		DATE	
CDN/JWF		CHK		NO.	
J50		APVD		DATE	
GARBERVILLE SANITARY DISTRICT		ROBERTSON/WALLAN/HURLBUTT TANKS REPLACEMENT		STRUCTURAL DETAILS	
GARBERVILLE, CALIFORNIA		SHEET		S3.0	
		SEQ		DATE	
		09/2023		PROJ. NO.	
		022067			