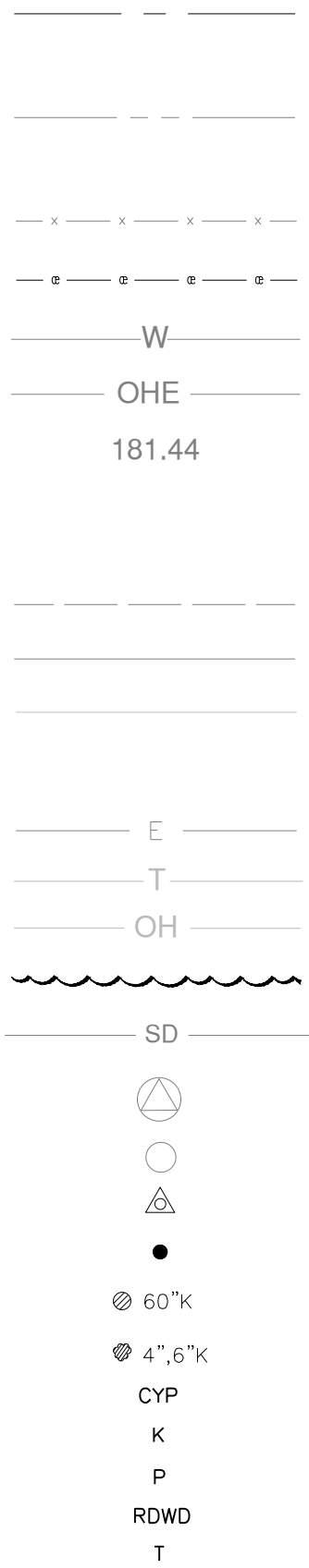


ABBREVIATIONS

AB	AGGREGATE BASE	LOC	LOCATION
AC	ASPHALT CONCRETE	MB	MAILBOX
APPROX	APPROXIMATE	MSB	MAIN SWITCHBOARD
AWWA	AMERICAN WATERWORKS ASSOC	MH	MANHOLE
BLDG	BUILDINGS	MAX	MAXIMUM
BLRDS	BOLLARDS	MJ	MECHANICAL JOINT
BTFLY	BUTTERFLY	MIN	MINIMUM
BTW	BETWEEN	MIP	MALE IRON PIPE
CL	CENTERLINE	MCC	MOTOR CONTROL CENTER
COM	COMMUNICATION	N	NORTH
CP	CONTROL POINT	(N)	NEW
CV	CHECK VALVE	N.I.C	NOT IN CONTRACT
CVR	COVER	NPT	NATIONAL PIPE THREAD
CLR	CLEAR	NSHT	NATIONAL STANDARD HOSE THREAD
CMP	CORRUGATED METAL PIPE	NTS	NOT TO SCALE
CONC	CONCRETE	O.C.	ON CENTER
CPT	CONTROL POINT	OD	OUTSIDE DIAMETER
CFS	CUBIC FEET PER SECOND	OH	OVERHEAD
CYC	CYCLONE	PNL	PANEL
DL	DAYLIGHT	PE	PLAIN END, POLYETHYLENE
DET	DETAIL	PVC	POLY-VINYL CHLORIDE
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DBL	DOUBLE	PP	POWER POLE
DWGS	DRAWINGS	(P)	PROPOSED
DWY	DRIVEWAY	RED	REDUCER
DI	DUCTILE IRON	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	R/W	RIGHT-OF-WAY
EA	EACH	RSR	RISER
EP	EDGE OF PAVEMENT	RD	ROAD
ESMT	EASEMENT	SCH	SCHEDULE
E	EAST	SPECS	SPECIFICATIONS
EP	EDGE OF PAVEMENT	SS	SANITARY SEWER
ELEC, ELECT	ELECTRICAL	SSCO	SANITARY SEWER CLEANOUT
EL,ELEV	ELEVATION	SSFM	SANITARY SEWER FORCE MAIN
ELL	ELBOW	SSMH	SANITARY SEWER MANHOLE
EQUIP	EQUIPMENT	SRVP	SERVICE POLE
(E)	EXISTING	SP	STATIC PRESSURE
(F)	FUTURE	STA	STATION
FIPT	FEMALE IRON PIPE THREAD	STD	STANDARD
FNPT	FEMALE NATIONAL PIPE THREAD	STL	STEEL
FEN	FENCE	SD	STORM DRAIN
FF	FINISH FLOOR	SL	STREET LIGHT
FLG, FL	FLANGE	STS	STREET NAME SIGN
FL, FLR	FLOW LINE	TCE	TEMPORARY CONSTRUCTION EASEMENT
GAL	GALLON(S)	TOD	TOP OF DITCH
GPM	GALLONS PER MINUTE	TOS	TOP OF SLOPE
GALV	GALVANIZED	TS	TRAFFIC SIGN
GV	GATE VALVE	TYP	TYPICAL
GB	GRADE BREAK	VLTS	VAULTS
GS	GALVANIZED STEEL	W	WATER
HW	HEADWALL	WH	WHARF HYDRANT
HP	HORSEPOWER	WM	WATER MAIN
HDPE	HIGH-DENSITY POLYETHYLENE	W/	WITH
ID	INSIDE DIAMETER	WSP	WELDED STEEL PIPE
INV	INVERT	WD	WOOD
IW	INDUSTRIAL WASTE	WDFE	WOOD FENCE
IPS	IRON PIPE SIZE		

LEGEND

EXISTING



DESCRIPTION

EASEMENT

TEMPORARY CONSTRUCTION EASEMENT

PROPERTY LINE - R/W

LIMIT OF WORK

CYCLONE FENCE

WOOD FENCE

WATER LINE

OVERHEAD ELECTRIC

SPOT ELEVATION

DRAIN PIPE

REMOVE AND DISPOSE

EDGE OF (E) PAVEMENT

MAJOR CONTOUR LINE (TOPO)

MINOR CONTOUR LINE (TOPO)

LIMIT OF GRADING

BURIED ELECTRIC

TELEPHONE

OVERHEAD COMMUNICATION

VEGETATION

STORM DRAIN PIPE

WATER VALVE

MANHOLE

CONTROL POINT

FOUND MONUMENT AS NOTED

EXISTING TREE & TYPE

TREE CLUSTER WITH SIZE

CYPRESS

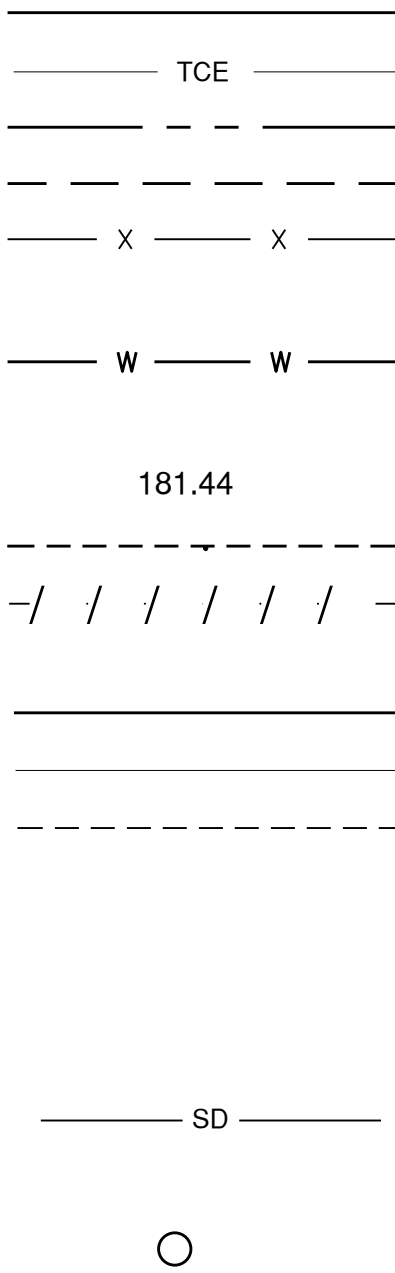
OAK

PINE

REDWOOD

TREE (MISC)

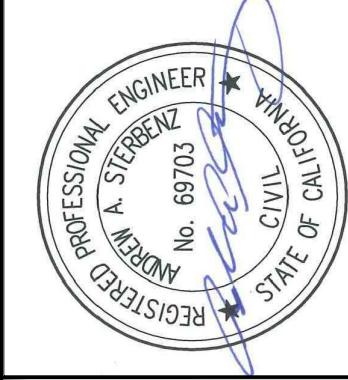
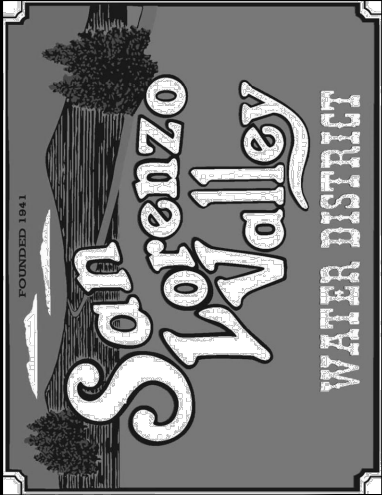
PROPOSED



SHEET INDEX

1	G1.0	TITLE SHEET
2	G1.1	LEGEND, ABBREVIATIONS, & SHEET INDEX
3	G1.2	GENERAL NOTES
4	C4.1	QUAIL HOLLOW ROAD OVERALL PLAN
5	C4.2	QUAIL HOLLOW ROAD PLAN & PROFILE I
6	C4.3	QUAIL HOLLOW ROAD PLAN & PROFILE II
7	C4.4	QUAIL HOLLOW ROAD PLAN & PROFILE III
8	C4.5	QUAIL HOLLOW ROAD PLAN & PROFILE IV
9	C4.6	QUAIL HOLLOW ROAD PLAN & PROFILE V
10	C4.7	QUAIL HOLLOW ROAD PLAN & PROFILE VI
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LEGEND, ABBREVIATIONS, & SHEET INDEX



Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
3 Quail Run Circle, Suite 101
Salinas, CA 93907-2348
(831) 883-4848

REV. NO.	DESCRIPTION	BY	DATE
△ 1			
△ 2			
△ 3			
△ 4			
△ 5			

UNDERGROUND SERVICE ALERT
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- SHOULD IT APPEAR THAT THE WORK TO BE PERFORMED OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE DISTRICT ENGINEER AT 831-338-2153 WITH ANY QUESTIONS OR DISCREPANCIES. ANY REVISIONS REQUIRE OWNER'S APPROVAL BEFORE PROCEEDING WITH REVISED PLANS.
2. UNAUTHORIZED CHANGES AND USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE MADE IN WRITING AND APPROVED BY THE PREPARER OF THESE PLANS.
3. CONSTRUCTION CONTRACTOR AGREES THAT THE IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE CIVIL ENGINEER AND THE OWNER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CIVIL ENGINEER.
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACCEPTED WORKMANSHIP PRACTICE AND THESE PLANS. ORDERS GIVEN BY THE OWNER REPRESENTATIVE RELATING TO THE QUALITY OF MATERIALS AND WORKMANSHIP SHALL BE COMPLIED WITH PROMPTLY BY THE CONTRACTOR.
5. CONTRACTOR SHALL POSSESS A VALID CLASS A - GENERAL ENGINEERING CONTRACTOR LICENSE AT THE TIME THE CONTRACT IS AWARDED AND SHALL MAINTAIN THROUGHOUT THE LENGTH OF CONTRACT. SUB-CONTRACTORS SHALL POSSES VALID LICENSE(S) FOR THE PORTION(S) OF THE WORK THEY ARE PERFORMING.
6. THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS AT THE JOB SITE FOR THE SAN LORENZO VALLEY WATER DISTRICT, COUNTY PUBLIC WORKS, AMBULANCE, POLICE AND FIRE DEPARTMENTS. CONTRACTOR SHALL POST SIGN AT JOB SITE BEARING OWNER'S NAME AND SITE ADDRESS. PROPERTY CORNERS SHALL BE CLEARLY MARKED.
7. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT.
8. CONTRACTOR SHALL CONFORM TO THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATION AND TRENCHING. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
9. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY PERTAINING TO "CONFINED SPACES". ANY MANHOLE, CULVERT, DROP INLET OR TRENCH (WHICH COULD CONTAIN AIR) THAT IS NOT READILY VENTILATED MAY BE CONSIDERED A "CONFINED SPACE".
10. EXCAVATION SHALL BE ADEQUATELY SHORED, BRACED AND SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEETING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH, STRUCTURE AND/OR BORING AND JACKING PIT IS REQUIRED, THE CONTRACTOR SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL ALWAYS COMPLY WITH OSHA REQUIREMENTS.
11. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. APPROVAL OF THESE PLANS BY THE AGENCY DOES NOT GUARANTEE THE ACCURACY, COMPLETENESS, LOCATION OR THE EXISTENCE OR NON-EXISTENCE OF ANY UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS NECESSARY TO PROTECT EXISTING UTILITY LINES.
12. CONTRACTOR SHALL HAVE UTILITIES LOCATED BY CALLING UNDERGROUND SERVICE ALERT (USA) NORTH AT (800) 227-2600 OR 811 AT LEAST 48-HOURS PRIOR TO START OF CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER AND THE OWNER OF ANY DIFFERENCES IN THE LOCATIONS OF EXISTING UTILITIES SHOWN, OR ANY CONFLICTS WITH THE DESIGN, BEFORE CONTINUING WITH WORK IN THAT AREA.
13. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER AT (831) 338-2153 FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
14. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN AND OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY AND TO MAINTAIN TRAFFIC CONTROL AT ALL TIMES.
15. THE CONTRACTOR SHALL NOT DESTROY ANY PERMANENT SURVEY POINTS. ANY PERMANENT MONUMENTS OR POINTS DESTROYED SHALL BE REPLACED BY A LICENSED ENGINEER OR LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.
16. DURING GRADING OPERATIONS, THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES ON SITE AND ON HAUL ROUTES.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AN AIRBORNE DUST NUISANCE FROM THE CONSTRUCTION SITE BY WATERING AND/OR TREATING THE SITE IN SUCH A MANNER TO LIMIT THE EXTENT OF AIRBORNE DUST PARTICLES.
18. SITE WORK HOURS ARE 8:30 A.M. TO 4:00 P.M. MONDAY THROUGH FRIDAY. SITE WORK HOURS ARE REDUCED TO 9:00 A.M. TO 4:00 P.M. WHEN SCHOOL IS IN SESSION, GENERALLY FROM AUGUST 17, 2021 THROUGH JUNE 7, 2022.
19. THE WORK SITE SHALL BE CONTINUALLY MAINTAINED AND KEPT FREE OF TRASH AND CLUTTER. SOLID WASTE SHALL BE STORED IN CLOSED CONTAINERS AND TRANSPORTED TO AN APPROVED DUMPSITE ON A REGULAR BASIS.
20. THESE PLANS SHOW EXISTING FEATURES INCLUDING BUT NOT LIMITED TO TREES, UTILITIES AND STRUCTURES THAT MAY BE AFFECTED BY THE CONSTRUCTION OR PLACEMENT OF THE PROPOSED ENGINEERED IMPROVEMENTS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE TO IMMEDIATELY NOTIFY THE ENGINEER IF THERE ARE ANY EXISTING FACILITIES, WHETHER SHOWN OR NOT SHOWN ON THESE PLANS, WHICH COULD IN ANY WAY BE IN POTENTIAL CONFLICT WITH THE DESIGN ON THESE PLANS. ALL WORK WITHIN THE VICINITY OF POTENTIAL CONFLICT SHALL CEASE UNTIL AN ADEQUATE AND APPROPRIATE SOLUTION IS DETERMINED BY THE ENGINEER/OWNER'S REPRESENTATIVE AND APPROVED BY THE OWNER.
21. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE STORM WATER POLLUTION PREVENTION AND IMPLEMENTING NECESSARY BEST MANAGEMENT PRACTICES. EROSION CONTROL MEASURES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY. WET SEASON CONTROLS ARE REQUIRED (MINIMUM) BETWEEN OCTOBER 15 AND APRIL 15.
22. THE CONTRACTOR SHALL COMPLY WITH ALL RULES, REGULATIONS AND PROCEDURES OF THE NATIONAL

- ### GRADING NOTES:

- ALL GRADING, EROSION CONTROL, SITE PREPARATION, AND PLACING AND COMPACTION OF FILL SHALL BE DONE IN ACCORDANCE WITH CHAPTER 16.20 OF THE SANTA CRUZ COUNTY, CA CODE OF ORDINANCES.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE OWNER AT LEAST TWO WORKING DAYS PRIOR TO THE START OF WORK.
8. CLEAR SURFACE VEGETATION AND STRIP TOPSOIL TO BOTTOM OF ROOT ZONE WITHIN GRADING AREAS. STOCKPILE TOPSOIL ON-SITE FOR FUTURE USE. CHIP AND SPREAD REMOVED VEGETATION WITHIN THE LIMITS OF THE WORK.
9. STRUCTURAL FILL AREAS SHALL BE SCARIFIED TO A DEPTH OF 18-INCHES, MOISTURE CONDITIONED AND COMPACTED.
10. CLEAN NATIVE MATERIAL MEETING THE REQUIREMENTS LISTED IN THE GEOTECHNICAL REPORT MAY BE USED AS STRUCTURAL FILL. IMPORTED STRUCTURAL FILL, IF NEEDED, SHALL MEET THE REQUIREMENTS LISTED IN THE GEOTECHNICAL REPORT.
11. BEDDING FOR UNDERGROUND UTILITIES SHALL BE IMPORTED SAND MATERIAL (MINIMUM S.E. = 30) UNLESS OTHERWISE APPROVED BY THE ENGINEER. BEDDING SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95% AS BASED UPON ASTM TEST DESIGNATION D1557, MODIFIED PROCTOR.
12. BACKFILL FOR UTILITY TRENCHES UNDER PAVEMENTS SHALL BE 2-SACK CEMENT SLURRY MEETING THE REQUIREMENTS OF THE SANTA CRUZ COUNTY PUBLIC WORKS DEPARTMENT. BACKFILL NOT UNDER PAVEMENT SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95% BASED UPON ASTM TEST DESIGNATION D1557, MODIFIED PROCTOR.
13. ALL SURPLUS AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY CONTRACTOR.
14. CONTRACTOR SHALL NEITHER WASTE NOR DEPOSIT ANY HAZARDOUS MATERIALS ON THE GRADING SURFACES OR WITHIN THE GRADED CUT AND FILL AREAS OF THIS PROJECT, INCLUDING BUT NOT LIMITED TO GASOLINE OR DIESEL FUELS, MOTOR OILS OR TRANSMISSION FLUIDS, ANTIFREEZE, HYDRAULIC FLUIDS, LUBRICANTS, STARTING FLUIDS AND FILTERS, AND/OR CONTAINERS FOR THESE PRODUCTS. HAZARDOUS MATERIAL SPILLS THAT OCCUR AS A RESULT OF EITHER EQUIPMENT FAILURES OR VANDALISM, INCLUDING ALL ADJACENT CONTAMINATED SOILS, SHALL BE EXCAVATED AND PACKAGED FOR DISPOSAL AT AN ENVIRONMENTALLY APPROVED DISPOSAL SITE. MATERIALS SHALL NOT BE TRANSPORTED OFF THE SITE UNTIL THEY ARE CATALOGED AND APPROVED BY THE CONSTRUCTION MANAGER. ALL REMOVAL, PACKAGING, TRANSPORTATION AND DISPOSAL COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
15. ALL DISTURBED AREAS SHALL BE RE-SEEDDED WITH THE FOLLOWING EROSION CONTROL MIX. APPLY 1 POUND PER 800 SQUARE FEET. PROVIDE MULCH AND FERTILIZER PER SEED SUPPLIERS RECOMMENDATIONS:

PIPELINE NOTES:

- UNDERGROUND SERVICE ALERT**
CALL: TOLL FREE
1-800
227-2600
TWO WORKING DAYS
BEFORE YOU DIG

C:\USERS\JTABLE\Desktop\SLWD CHUAL HOLLOW WORKING\SLWD CHUALHOLLOW 12JULY2021.DWG 7/12/2021 BY: JTABLE

HORIZONTAL CONTROL:
AZIMUTH BEARING BETWEEN CONTROL POINTS CP 700 AND CP734 (N34°40'45"E)
CALIFORNIA STATE PLANE, ZONE III

VERTICAL CONTROL:
ELEVATION DATUM IS NAD83

- PIPELINE NOTES:
1. ALL NEW WATER MAINS IN THIS AREA SHALL BE DUCTILE IRON PIPE (AWWA C151)
 2. PIPE BEDDING AND TRENCH BACKFILL SHALL BE PER SANTA CRUZ COUNTY FIGURE EP-1
 3. REPAVE TRENCH AND SET VALVE LIDS PER SANTA CRUZ COUNTY FIGURE EP-1, EP-2 AND EP-5

NOTE: PARCEL BOUNDARIES ARE IMPORTED FROM GIS AND FOR INFORMATION ONLY.
CORNERS ARE NOT FIELD SURVEYED.

OVERALL PLAN & SHEET INDEX

1 IN = 200 FT

SURVEY CONTROL POINTS			
CP	NORTHING	EASTING	ELEVATION
13	1856102.04	6103780.75	516.00
500	1856413.28	6103822.29	538.00
501	1856748.97	6104210.15	580.71
539	1856957.54	6104324.49	609.71
541	1857309.55	6104184.40	648.25
578	1857576.42	6104543.48	653.43
1012	1857384.43	6105024.74	624.89
968	1857141.32	6105290.49	602.71
958	1856540.70	6105356.82	564.04
935	1856167.31	6105480.56	541.36
898	1855985.52	6105651.03	526.10
887	1855511.15	6105861.33	501.46
855	1855278.57	6106230.58	476.08
805	1854752.76	6106917.24	430.07
734	1854075.43	6107339.35	385.88
700	1853529.06	6107704.07	353.01
2	1853298.37	6107903.59	341.90

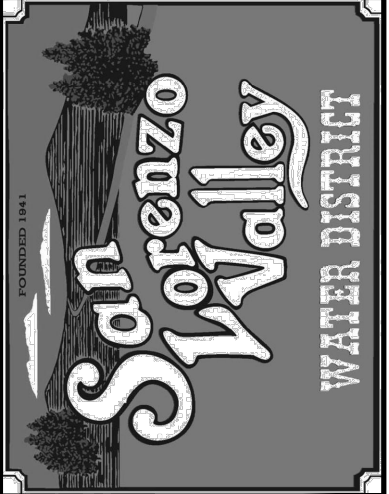
STATION ANGLE POINTS		
STATION	NORTHING	EASTING
1+00.00	1856078.68	6103748.65
1+24.22	1856096.30	6103765.27
1+62.87	1856129.40	6103785.22
2+16.86	1856180.08	6103803.85
2+39.77	1856202.75	6103807.21
3+32.27	1856295.22	6103808.90
3+92.40	1856354.42	6103819.43
4+48.30	1856404.97	6103843.30
5+10.14	1856454.12	6103880.84
8+56.84	1856674.78	6104148.25
11+02.79	1856873.66	6104292.94
11+50.57	1856917.69	6104311.51
11+95.32	1856961.77	6104319.20
12+37.70	1857004.15	6104318.49
12+66.06	1857031.79	6104312.17
14+01.75	1857144.80	6104237.06
14+65.93	1857204.46	6104213.40
15+10.86	1857249.06	6104207.92
16+25.79	1857360.08	6104234.59
16+86.11	1857409.55	6104269.11
17+41.36	1857446.07	6104310.57
19+12.50	1857543.52	6104451.25
19+73.49	1857565.98	6104507.96
19+87.17	1857560.75	6104520.60
20+70.87	1857562.89	6104604.28
21+26.15	1857550.14	6104658.06
25+18.67	1857381.60	6105012.53
25+73.90	1857352.68	6105059.61
27+94.14	1857216.11	6105232.40
28+96.66	1857128.19	6105285.13
30+44.67	1856983.12	6105314.43
35+26.72	1856505.69	6105381.11
36+14.43	1856420.75	6105402.95
37+84.95	1856260.73	6105461.86
38+97.56	1856157.42	6105506.67
42+25.62	1855898.43	6105708.04
45+71.81	1855576.90	6105836.36
47+46.61	1855446.35	6105952.59
49+25.81	1855359.32	6106109.24
50+60.29	1855304.16	6106231.88
58+45.76	1854815.72	6106847.03
59+55.85	1854734.80	6106921.67
74+79.46	1853468.77	6107769.35
75+19.02	1853433.62	6107787.50
75+92.60	1853372.46	6107828.39



UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
**1-800
227-2600**
TWO WORKING DAYS
BEFORE YOU DIG

DESIGNED BY: JCT DATE: 7/12/2021
DRAWN BY: JCT DATE: 7/12/2021
QC CHECKED BY: AAS DATE: 7/12/2021
PROJECT NO.:
SCALE: AS SHOWN
SUBMITTAL: 100% SUBMITTAL

QUAIL HOLLOW ROAD OVERALL PLAN
QUAIL HOLLOW ROAD
PIPELINE REPLACEMENT

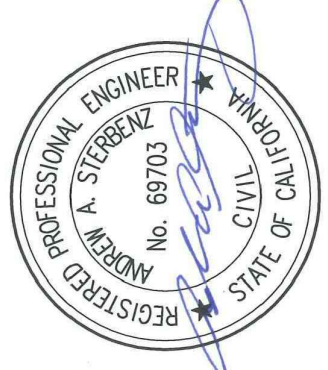


C4.1
SHEET 4 OF 14

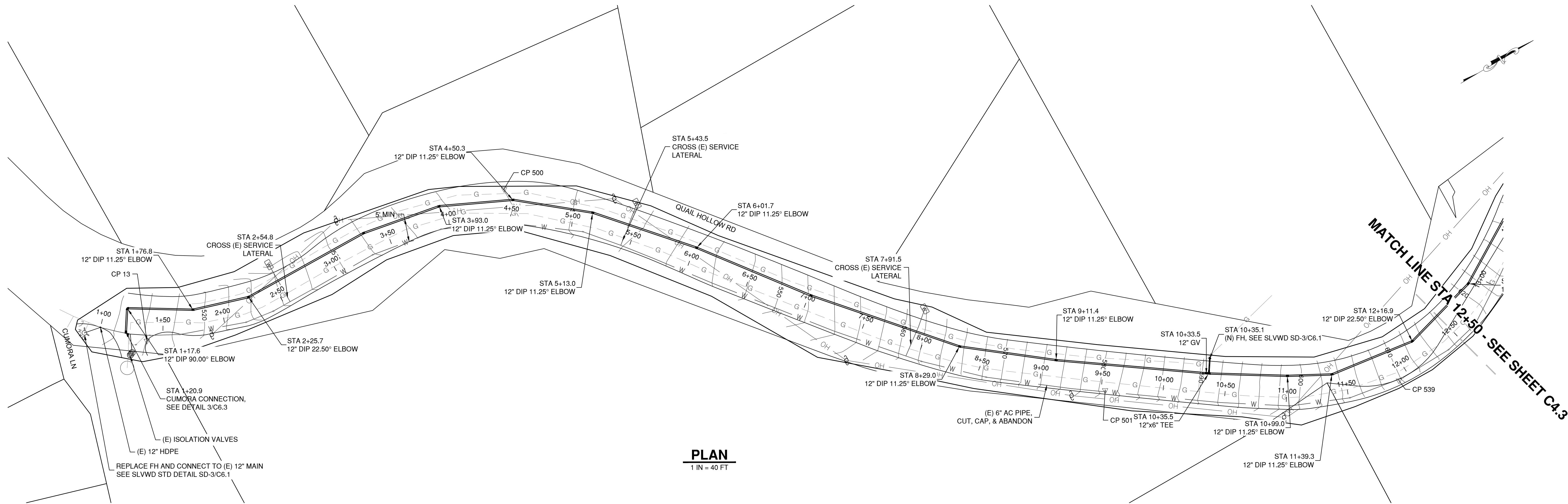
REV. NO. DESCRIPTION BY DATE

1			
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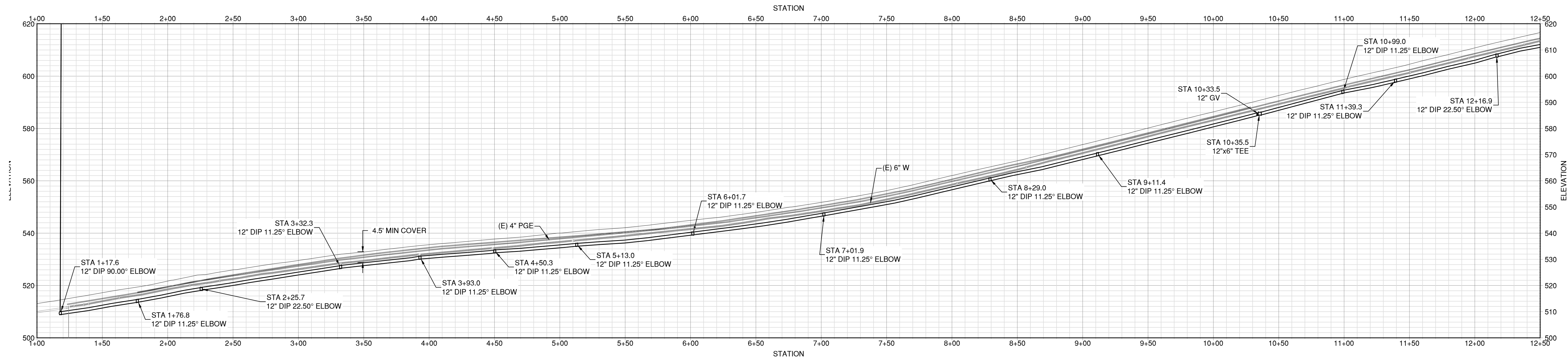
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
3 Quail Run Circle, Suite 101
Salinas, CA 93907-2348
(831) 883-4848



C:\USERS\JTABLER\TOP\SLVWD\QUAIL HOLLOW WORKING\SLVWD QUAIL HOLLOW 12 JULY 2021.DWG 7/12/2021 BY JTABLER



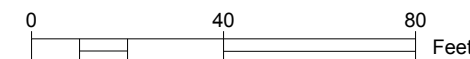
PLAN
1 IN = 40 FT



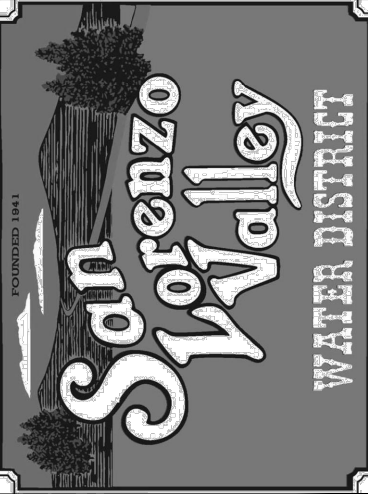
PROFILE

HOR. SCALE: 1 IN = 40 FT
VER. SCALE: 1 IN = 20 FT

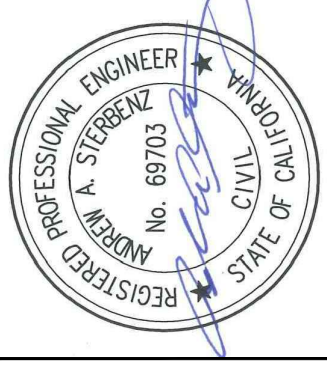
- NOTES:
1. ALONG THE ALIGNMENT OF THE NEW WATER MAINS, ALL EXISTING WATER SERVICES, WHETHER OR NOT SHOWN ON THE DRAWINGS, SHALL BE REPLACED. REPLACEMENT SERVICES SHALL EXTEND FROM THE NEW WATER MAIN TO A NEW WATER METER. WATER METERS SHALL BE FURNISHED BY SLVWD AND INSTALLED BY THE CONTRACTOR. ALL OTHER SERVICE COMPONENTS, INCLUDING WATER METER BOX, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. NEW METER BOXES SHALL BE INSTALLED IN THE SAME LOCATION AS THE EXISTING UNLESS OTHERWISE INDICATED OR OTHERWISE DIRECTED BY SLVWD. NEW SERVICES SHALL BE PER SLVWD STANDARD DETAIL SD-4 OR SD-5. NEW SERVICE PIPING SHALL BE THE SAME SIZE AS THE EXISTING SERVICE PIPING EXCEPT IF THE EXISTING SERVICE PIPING IS LESS THAN 1-INCH DIAMETER. IF THE EXISTING SERVICE PIPING IS LESS THAN 1-INCH DIAMETER, NEW SERVICE PIPING SHALL BE 1-INCH DIAMETER.
 2. PARCEL BOUNDARIES ARE IMPORTED FROM GIS AND FOR INFORMATION ONLY. CORNERS ARE NOT FIELD SURVEYED.
 3. LOCATION OF GAS MAIN IS APPROXIMATE. PROVIDE A MIN. 5 FT SEPARATION.



UNDERGROUND SERVICE ALERT
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227-2600
TWO WORKING DAYS
BEFORE YOU DIG

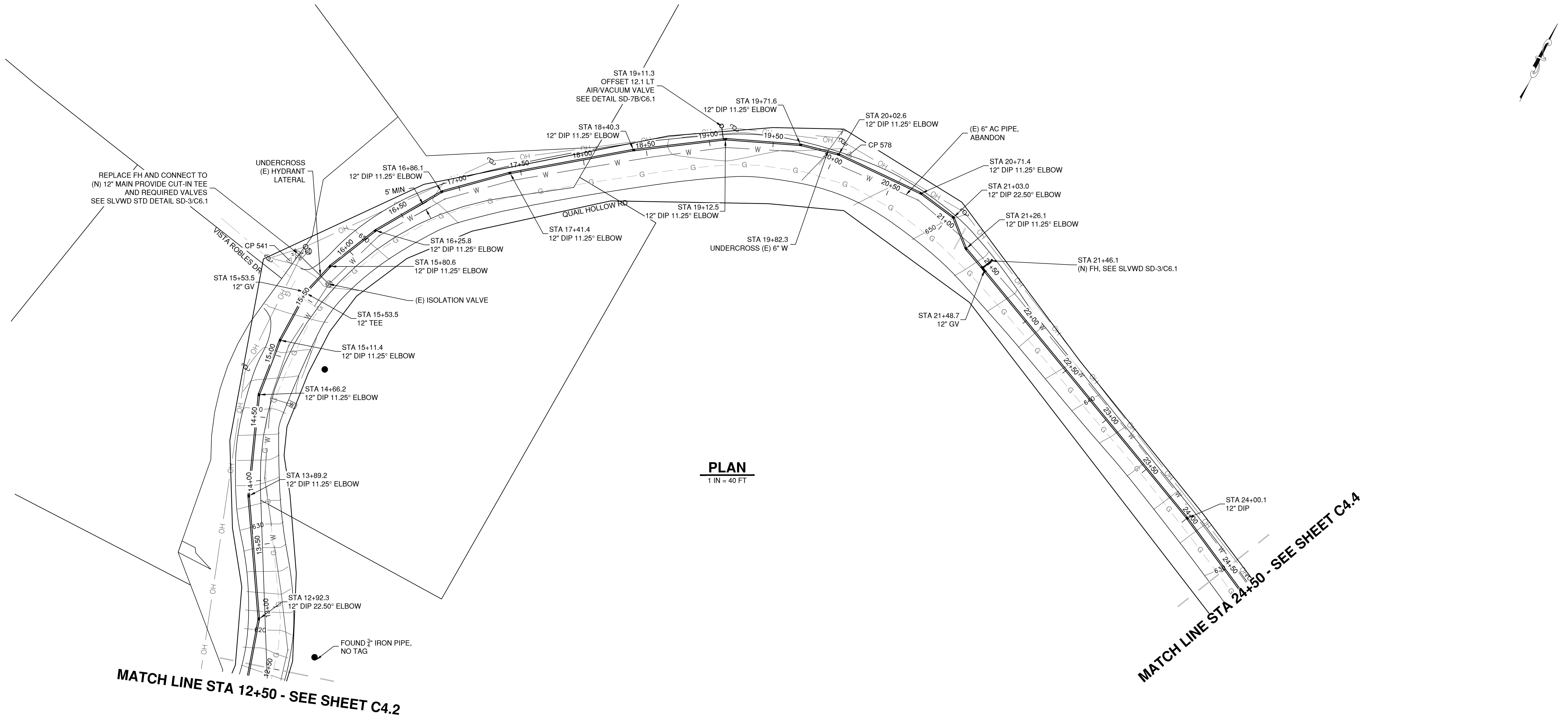
DESIGNED BY:	JCT	DATE:	7/12/2021
DRAWN BY:	JCT	DATE:	7/12/2021
QC-CHECKED BY:	AAS	DATE:	7/12/2021
PROJECT NO.:			
SCALE:	AS SHOWN		
SUBMITTAL:	100% SUBMITTAL		
PLAN & PROFILE I			
QUAIL HOLLOW ROAD			
PIPELINE REPLACEMENT			
			
C4.2			
SHEET 5 OF 14			

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
3 Quail Run Circle, Suite 101
Salinas, CA 93907-2348
(831) 883-4848



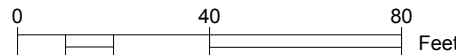
REV. NO.	DESCRIPTION	BY	DATE
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C:\USERS\JTABLER\TOP\SLVWD\QUAIL HOLLOW WORKING\SLVWD QUAIL HOLLOW 12 JULY 2021.DWG 7/12/2021 BY JTABLER



- NOTES:
1. ALONG THE ALIGNMENT OF THE NEW WATER MAINS, ALL EXISTING WATER SERVICES, WHETHER OR NOT SHOWN ON THE DRAWINGS, SHALL BE REPLACED. REPLACEMENT SERVICES SHALL EXTEND FROM THE NEW WATER MAIN TO A NEW WATER METER. WATER METERS SHALL BE FURNISHED BY SLVWD AND INSTALLED BY THE CONTRACTOR. ALL OTHER SERVICE COMPONENTS, INCLUDING WATER METER BOX, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. NEW METER BOXES SHALL BE INSTALLED IN THE SAME LOCATION AS THE EXISTING UNLESS OTHERWISE INDICATED OR OTHERWISE DIRECTED BY SLVWD. NEW SERVICES SHALL BE PER SLVWD STANDARD DETAIL SD-4 OR SD-5. NEW SERVICE PIPING SHALL BE THE SAME SIZE AS THE EXISTING SERVICE PIPING EXCEPT IF THE EXISTING SERVICE PIPING IS LESS THAN 1-INCH DIAMETER. IF THE EXISTING SERVICE PIPING IS LESS THAN 1-INCH DIAMETER, NEW SERVICE PIPING SHALL BE 1-INCH DIAMETER.
 2. PARCEL BOUNDARIES ARE IMPORTED FROM GIS AND FOR INFORMATION ONLY. CORNERS ARE NOT FIELD SURVEYED.
 3. LOCATION OF GAS MAIN IS APPROXIMATE. PROVIDE A MIN. 5 FT SEPARATION.

PROFILE
HOR. SCALE: 1 IN = 40 FT
VER. SCALE: 1 IN = 20 FT



UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1-800
227-2600
TWO WORKING DAYS
BEFORE YOU DIG

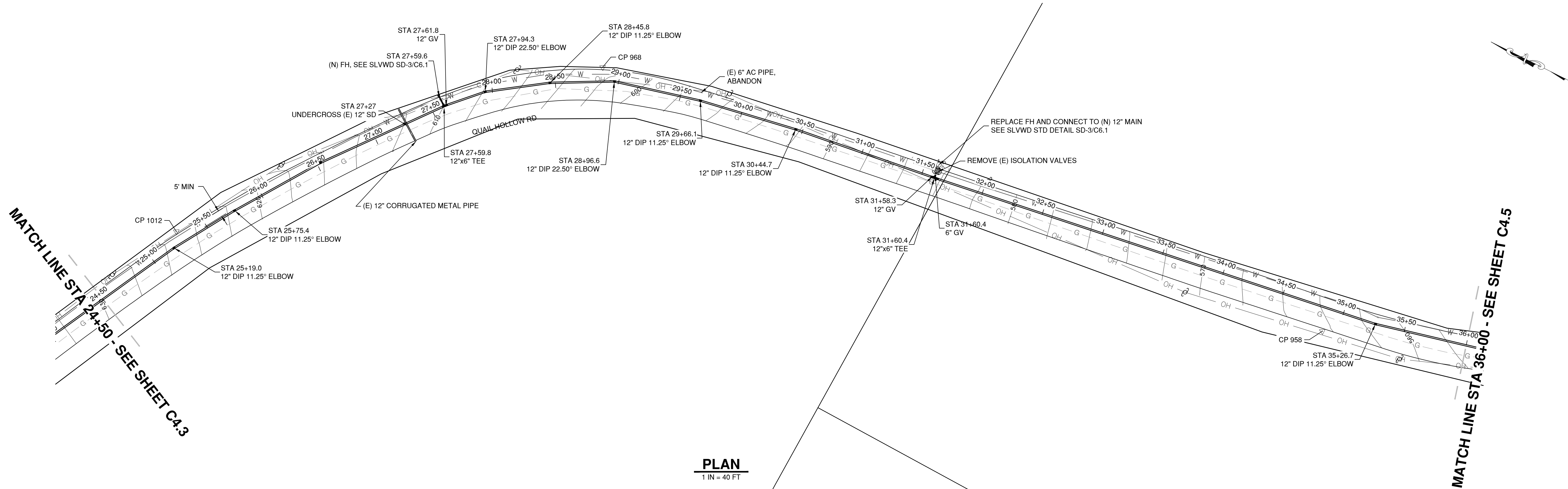
DESIGNED BY:	JCT	DATE:	7/12/2021
DRAWN BY:	JCT	DATE:	7/12/2021
QC CHECKED BY:	AAS	DATE:	7/12/2021
PROJECT NO.:			
SCALE:	AS SHOWN		
SUBMITTAL:	100% SUBMITTAL		
C4.3			
SHEET 6 OF 14			

PLAN & PROFILE II
QUAIL HOLLOW ROAD
PIPELINE REPLACEMENT

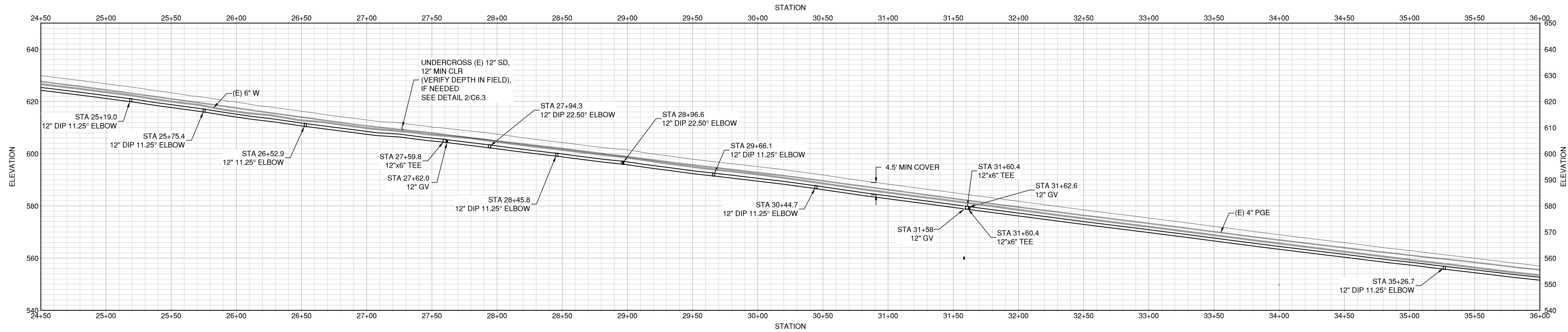
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
3 Quail Run Circle, Suite 101
Salinas, CA 95307-2348
(831) 883-4848

REGISTERED PROFESSIONAL ENGINEER
A. SCHAAF
No. 69703
CIVIL
STATE OF CALIFORNIA

C:\USERS\JTABLE\Desktop\SLVWD\QUAIL HOLLOW WORKING\SLVWD QUAIL HOLLOW 12 JULY 2021.DWG 7/12/2021 BY JTABLE



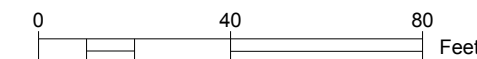
PLAN
1 IN = 40 FT



PROFILE

HOR. SCALE: 1 IN = 40 FT
VER. SCALE: 1 IN = 20 FT

- NOTES:
1. ALONG THE ALIGNMENT OF THE NEW WATER MAINS, ALL EXISTING WATER SERVICES, WHETHER OR NOT SHOWN ON THE DRAWINGS, SHALL BE REPLACED. REPLACEMENT SERVICES SHALL EXTEND FROM THE NEW WATER MAIN TO A NEW WATER METER. WATER METERS SHALL BE FURNISHED BY SLVWD AND INSTALLED BY THE CONTRACTOR. ALL OTHER SERVICE COMPONENTS, INCLUDING WATER METER BOX, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. NEW METER BOXES SHALL BE INSTALLED IN THE SAME LOCATION AS THE EXISTING UNLESS OTHERWISE INDICATED OR OTHERWISE DIRECTED BY SLVWD. NEW SERVICES SHALL BE PER SLVWD STANDARD DETAIL SD-4 OR SD-5. NEW SERVICE PIPING SHALL BE THE SAME SIZE AS THE EXISTING SERVICE PIPING EXCEPT IF THE EXISTING SERVICE PIPING IS LESS THAN 1-INCH DIAMETER. IF THE EXISTING SERVICE PIPING IS LESS THAN 1-INCH DIAMETER, NEW SERVICE PIPING SHALL BE 1-INCH DIAMETER.
 2. PARCEL BOUNDARIES ARE IMPORTED FROM GIS AND FOR INFORMATION ONLY. CORNERS ARE NOT FIELD SURVEYED.
 3. LOCATION OF GAS MAIN IS APPROXIMATE. PROVIDE A MIN. 5 FT SEPARATION.



UNDERGROUND SERVICE ALERT
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1-800
227-2600
TWO WORKING DAYS
BEFORE YOU DIG

DESIGNED BY:	JCT	DATE:	7/12/2021
DRAWN BY:	JCT	DATE:	7/12/2021
QC-CHECKED BY:	AAS	DATE:	7/12/2021
PROJECT NO.:	C4.4		
SCALE:	AS SHOWN		
SUBMITTAL:	100% SUBMITTAL		

PLAN & PROFILE III
QUAIL HOLLOW ROAD
PIPELINE REPLACEMENT

San Lorenzo Valley
WATER DISTRICT

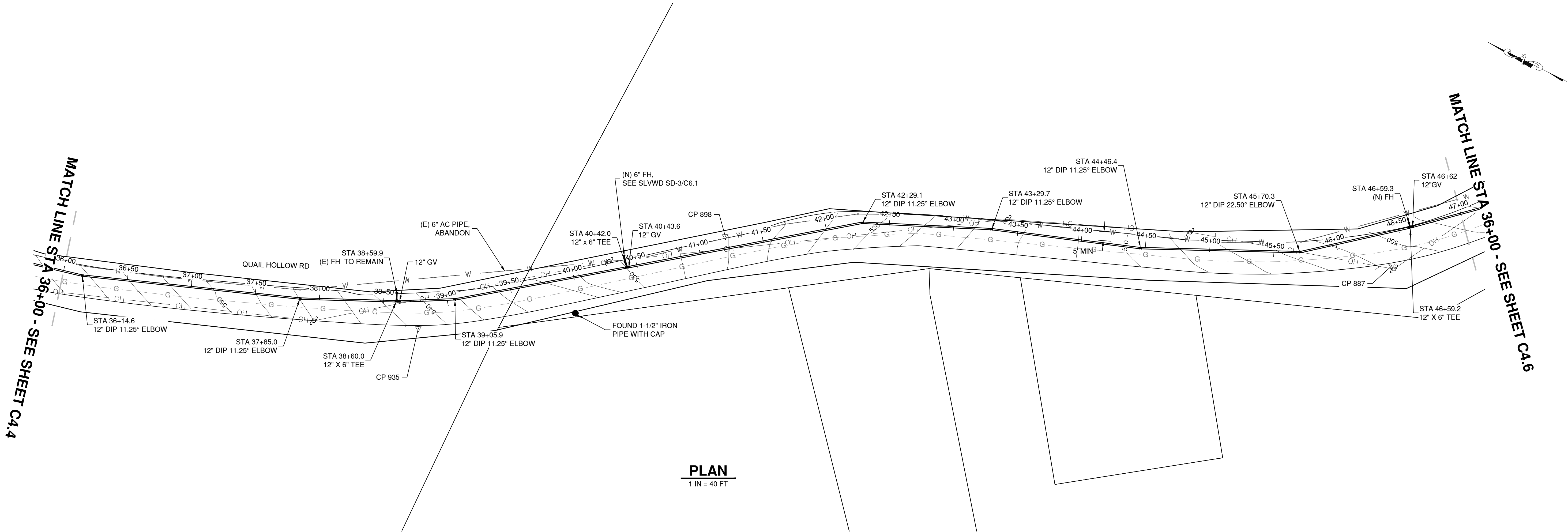
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
3 Quail Run Circle, Suite 101
Salinas, CA 93907-2348
(831) 883-4848

REGISTERED PROFESSIONAL ENGINEER
A. SCHAAF
No. 69703
CIVIL
STATE OF CALIFORNIA

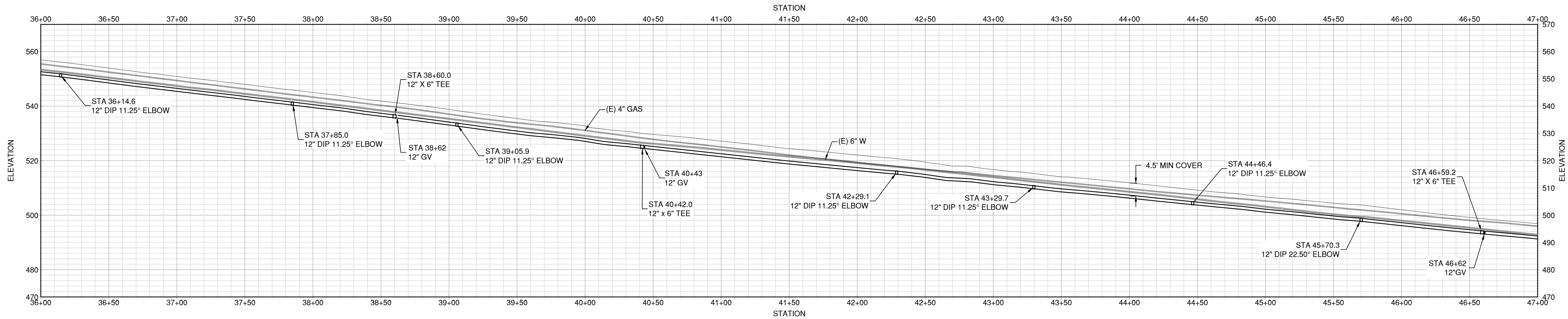
REV. NO. DESCRIPTION BY DATE

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PLAN
1 IN = 40 FT



PROFILE

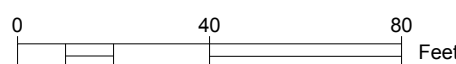
HOR. SCALE: 1 IN = 40 FT
VER. SCALE: 1 IN = 20 FT

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UNDERGROUND SERVICE ALERT
CALL: TOLL FREE



1-800
227-2600
TWO WORKING DAYS
BEFORE YOU DIG



DESIGNED BY:	JCT	DATE:	7/12/2021
DRAWN BY:	JCT	DATE:	7/12/2021
QC-CHECKED BY:	AAS	DATE:	7/12/2021
PROJECT NO.:	C4.5		
SCALE:	AS SHOWN		
SUBMITAL:	100% SUBMITAL		

PLAN & PROFILE IV
QUAIL HOLLOW ROAD
PIPELINE REPLACEMENT

San Lorenzo Valley
WATER DISTRICT

REV. NO.

1

DESCRIPTION

BY

DATE

REV. NO.

2

DESCRIPTION

BY

DATE

REV. NO.

3

DESCRIPTION

BY

DATE

REV. NO.

4

DESCRIPTION

BY

DATE

REV. NO.

5

DESCRIPTION

BY

DATE

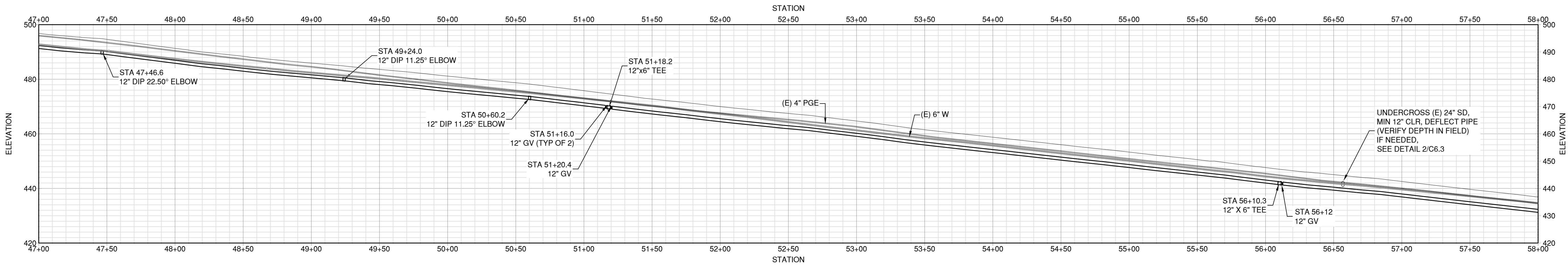
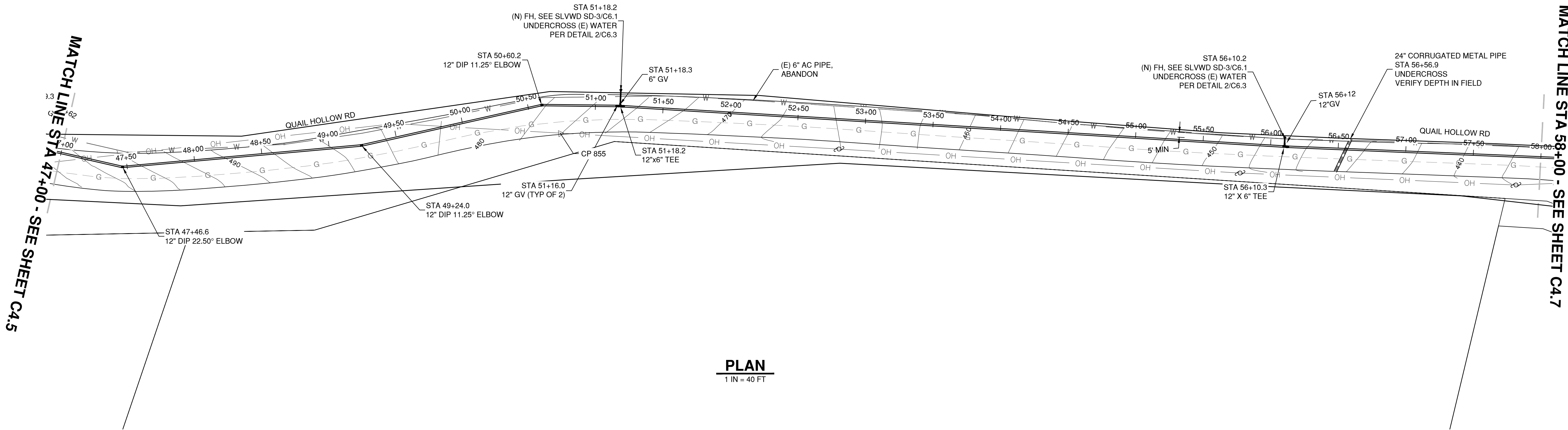
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
3 Quail Run Circle, Suite 101
Salinas, CA 93907-2348
(831) 883-4848

SHEET

8

OF 14


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DRAWN BY:		JCT	DATE:	7/12/2021
QC CHECKED BY:		AAS	DATE:	7/12/2021
PROJECT NO.:				
SCALE:		AS SHOWN		
SUBMITTAL:		100% SUBMITTAL		

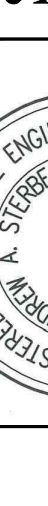


San Lorenzo Valley
WATER DISTRICT

PLAN & PROFILE V

QUAIL HOLLOW ROAD

PIPELINE REPLACEMENT



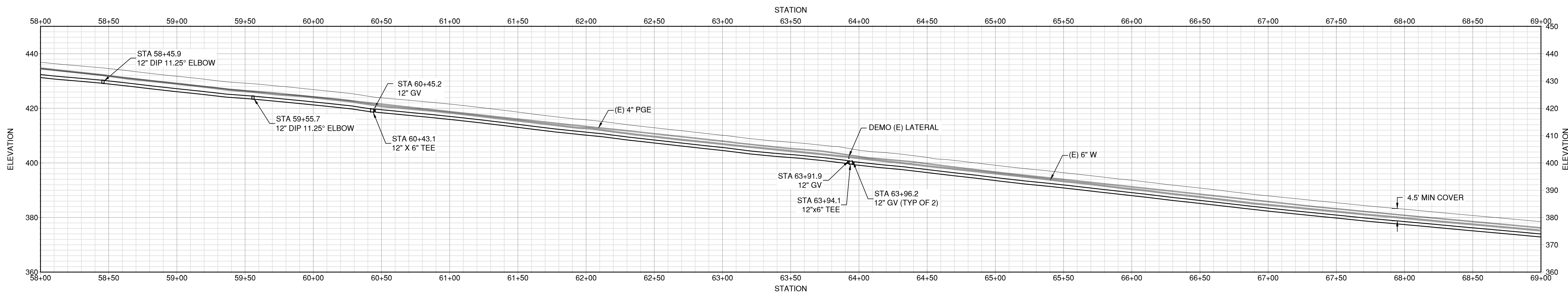
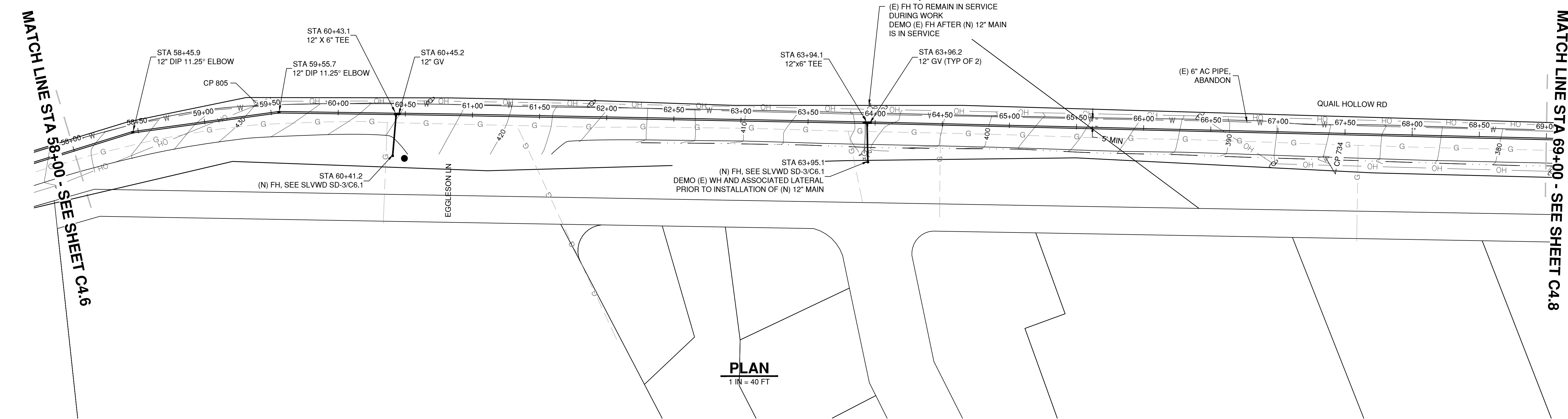
Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
3 Quail Run Circle, Suite 101
Salinas, CA 93907-2348
(831) 883-4848

REV. NO.	DESCRIPTION	BY	DATE
1			
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C4.6

SHEET **9** OF **14**

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DESIGNED BY:	JCT	DATE:	7/12/2021
DRAWN BY:	JCT	DATE:	7/12/2021
QC-CHECKED BY:	AAS	DATE:	7/12/2021
PROJECT NO.:	C4.7		
SCALE:	AS SHOWN		
SUBMITTAL:	100% SUBMITTAL		

PLAN & PROFILE VI
QUAIL HOLLOW ROAD
PIPELINE REPLACEMENT

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
3 Quail Run Circle, Suite 101
Salinas, CA 93907-2348
(831) 883-4848

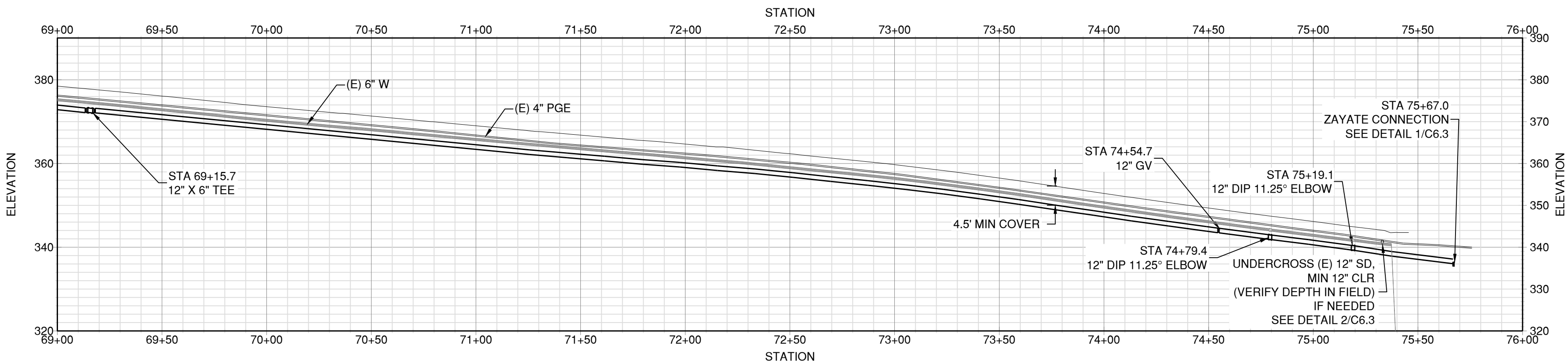
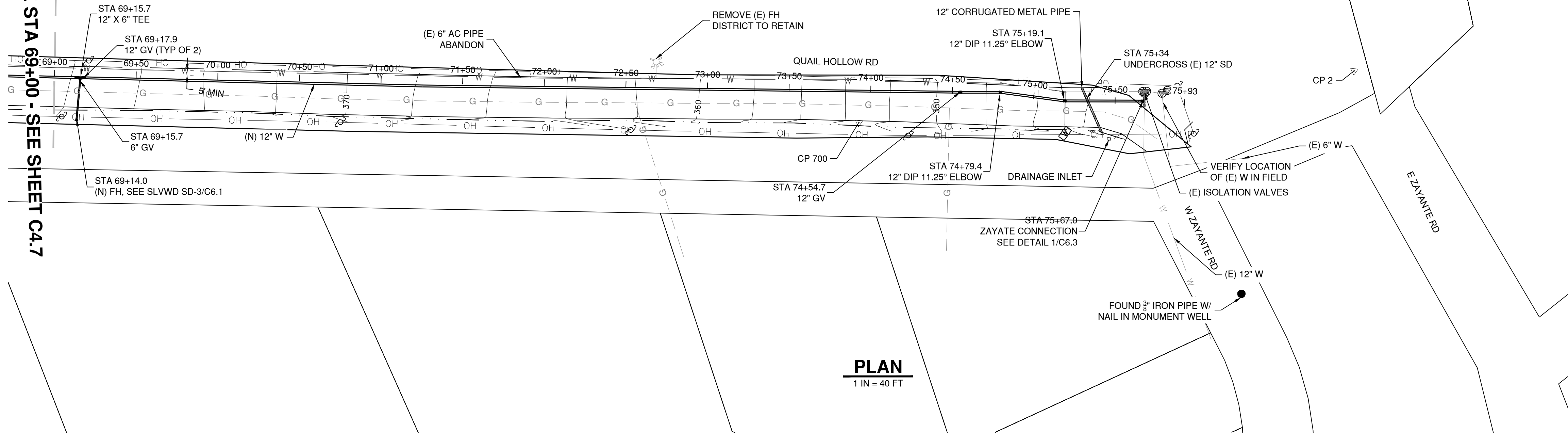
REGISTERED PROFESSIONAL ENGINEER
A. STEPHEN
No. 69703
CIVIL
STATE OF CALIFORNIA

San Lorenzo Valley
WATER DISTRICT

SHEET **10** OF **14**

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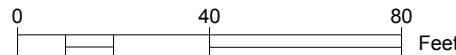
MATCH LINE STA 69+00 - SEE SHEET C4.7



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PROFILE

HOR. SCALE: 1 IN = 40 FT
VER. SCALE: 1 IN = 20 FT



UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1-800
227-2600
TWO WORKING DAYS
BEFORE YOU DIG

DESIGNED BY:	JCT	DATE:	7/12/2021
DRAWN BY:	JCT	DATE:	7/12/2021
QC-CHECKED BY:	AAS	DATE:	7/12/2021
PROJECT NO.:	C4.8		
SCALE:	AS SHOWN		
SUBMITTAL:	100% SUBMITTAL		

PLAN & PROFILE VII
QUAIL HOLLOW ROAD
PIPELINE REPLACEMENT

San Lorenzo Valley
WATER DISTRICT

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
3 Quail Run Circle, Suite 101
Salinas, CA 93907-2348
(831) 883-4848

REGISTERED PROFESSIONAL ENGINEER
A. STERNBERG
No. 69703
CIVIL
STATE OF CALIFORNIA

REV. NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

SHEET **11** OF **14**

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San Lorenzo Valley

WATER DISTRICT

DATE: 6/29/2021

DRAWN BY: JWS

CHECKED BY: JWS

DATE: 6/29/2021

STANDARD

VALVE BOX INSTALLATION

13060 Hwy 9


Boulder Creek, CA 95006

(831) 338-2153

SHEET

SD-2

NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM INCLUDING PHOTOCOPYING, RECORDING OR ANY INFORMATION RETRIEVAL AND STORAGE SYSTEM, WITHOUT PERMISSION IN WRITING FROM SLWD.



San Lorenzo Valley

WATER DISTRICT

DATE: 6/29/2021

DRAWN BY: JWS

CHECKED BY: JWS

DATE: 6/29/2021

STANDARD

1.5" OR 2" SERVICE LINE CONNECTION

13060 Hwy 9

Boulder Creek, CA 95006


(831) 338-2153

SHEET

SD-5

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File: C:\USERS\JTABLE\Desktop\SLWD CHQIAL HOLLOW WORKING\SLWD_PIPELINES DETAILS.DWG 7/12/2021 BY JTABLE



San Lorenzo Valley

WATER DISTRICT

DATE: 6/29/2021

DRAWN BY: JWS

CHECKED BY: JWS

DATE: 6/29/2021

STANDARD

6" STEAMER FIRE HYDRANT

13060 Hwy 9


Boulder Creek, CA 95006

(831) 338-2153

SHEET

SD-3

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San Lorenzo Valley

WATER DISTRICT

DATE: 6/29/2021

DRAWN BY: JWS

CHECKED BY: JWS

DATE: 6/29/2021

STANDARD

2" AIR/VAC RELEASE

13060 Hwy 9

Boulder Creek, CA 95006


(831) 338-2153

SHEET

SD-7

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San Lorenzo Valley

WATER DISTRICT

DATE: 6/29/2021

DRAWN BY: JWS

CHECKED BY: JWS

DATE: 6/29/2021

STANDARD

WATER SERVICE INSTALLATION 1" METERS

13060 Hwy 9


Boulder Creek, CA 95006

(831) 338-2153

SHEET

SD-4

NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM INCLUDING PHOTOCOPYING, RECORDING OR ANY INFORMATION RETRIEVAL AND STORAGE SYSTEM, WITHOUT PERMISSION IN WRITING FROM SLWD.



San Lorenzo Valley

WATER DISTRICT

DATE: 6/29/2021

DRAWN BY: JWS

CHECKED BY: JWS

DATE: 6/29/2021

STANDARD

THRUST BLOCK INSTALLATION

13060 Hwy 9

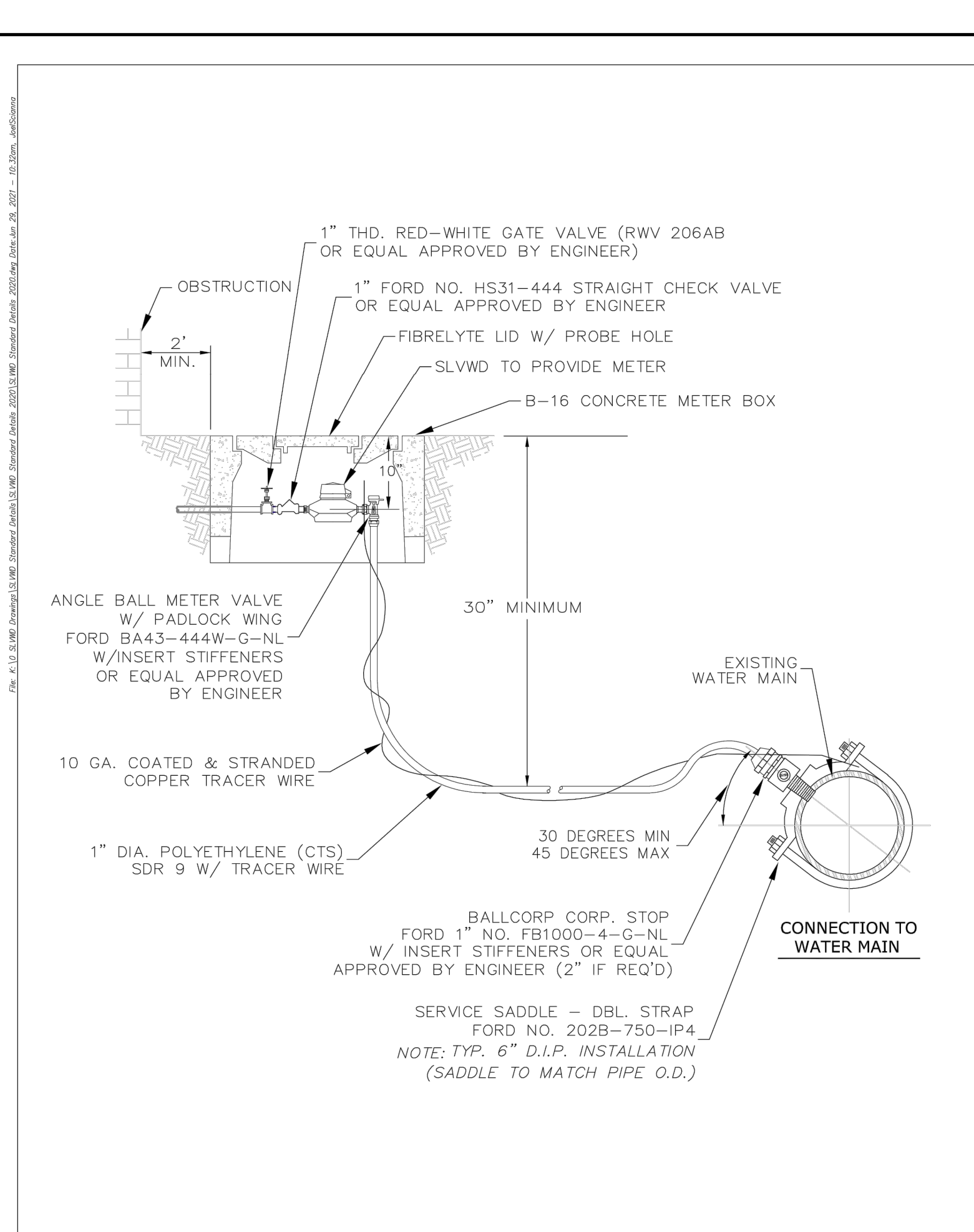
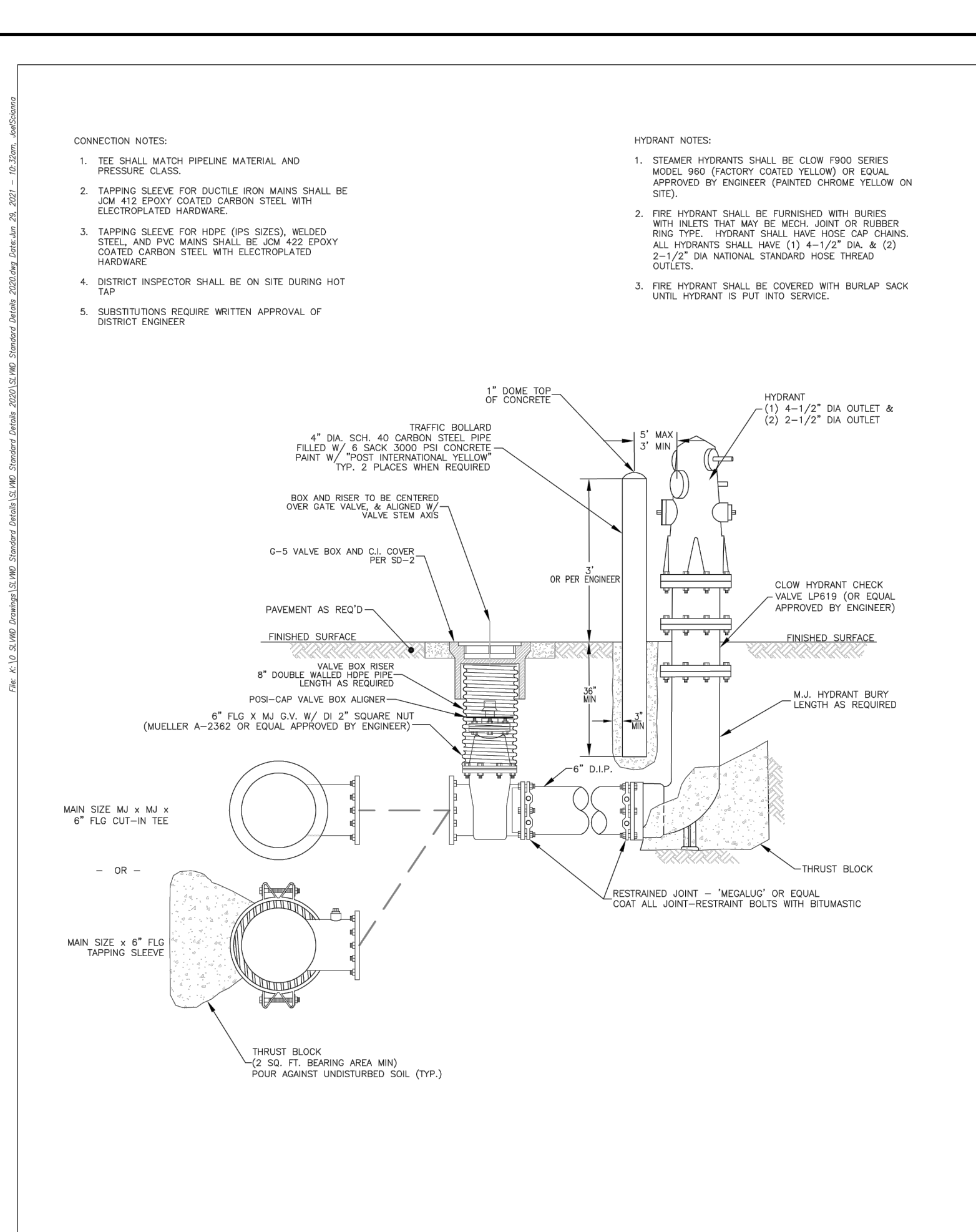
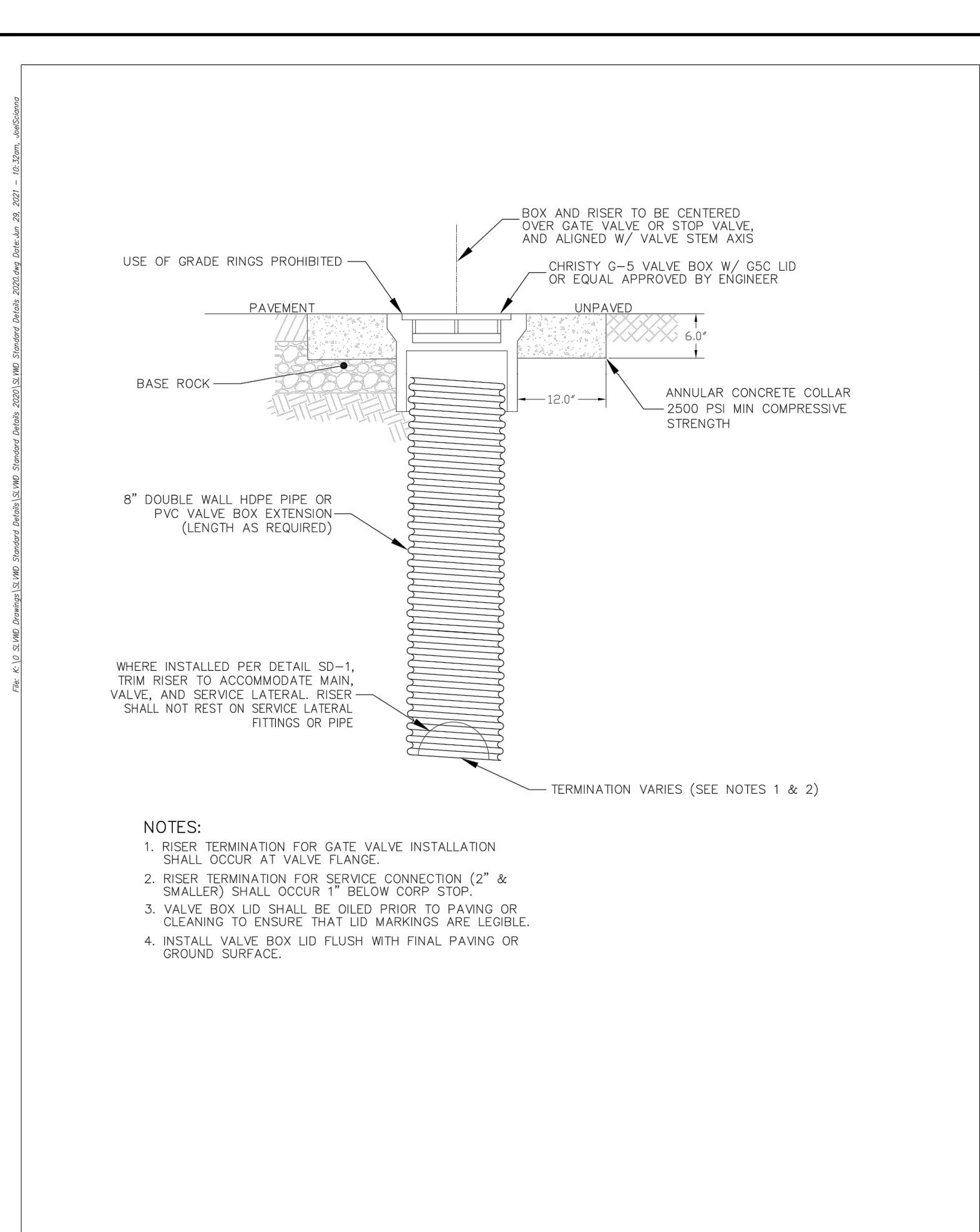
Boulder Creek, CA 95006


(831) 338-2153

SHEET

SD-8

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Schaaf & Wheeler

CONSULTING CIVIL ENGINEERS

3 Quail Run Circle, Suite 101

Salinas, CA 93907-2348

(831) 883-4848

DESIGNED BY: JCT

DATE: 7/12/2021

DRAWN BY: JCT

DATE: 7/12/2021

QC CHECKED BY: AAS

DATE: 7/12/2021

PROJECT NO.:

SCALE: AS SHOWN

SUBMITTAL: 100% SUBMITTAL

C6.1

SHEET 12 OF 14

REGISTERED PROFESSIONAL ENGINEER

NO. 69703

STATE OF CALIFORNIA

CIVIL

STANDARD DETAILS - I

QUAIL HOLLOW ROAD

PIPELINE REPLACEMENT



UNDERGROUND SERVICE ALERT

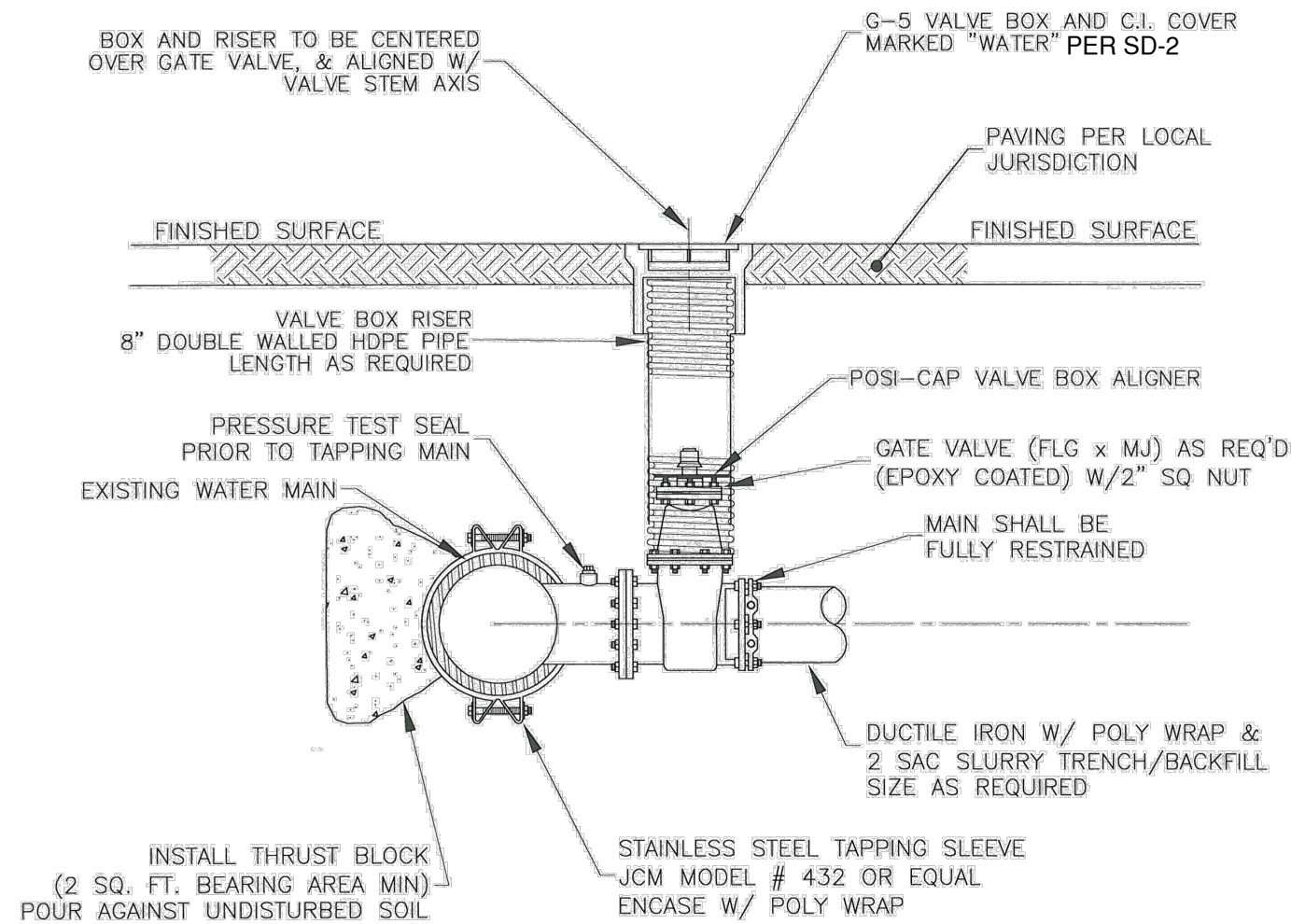
CALL: TOLL FREE

1-800

227-2600

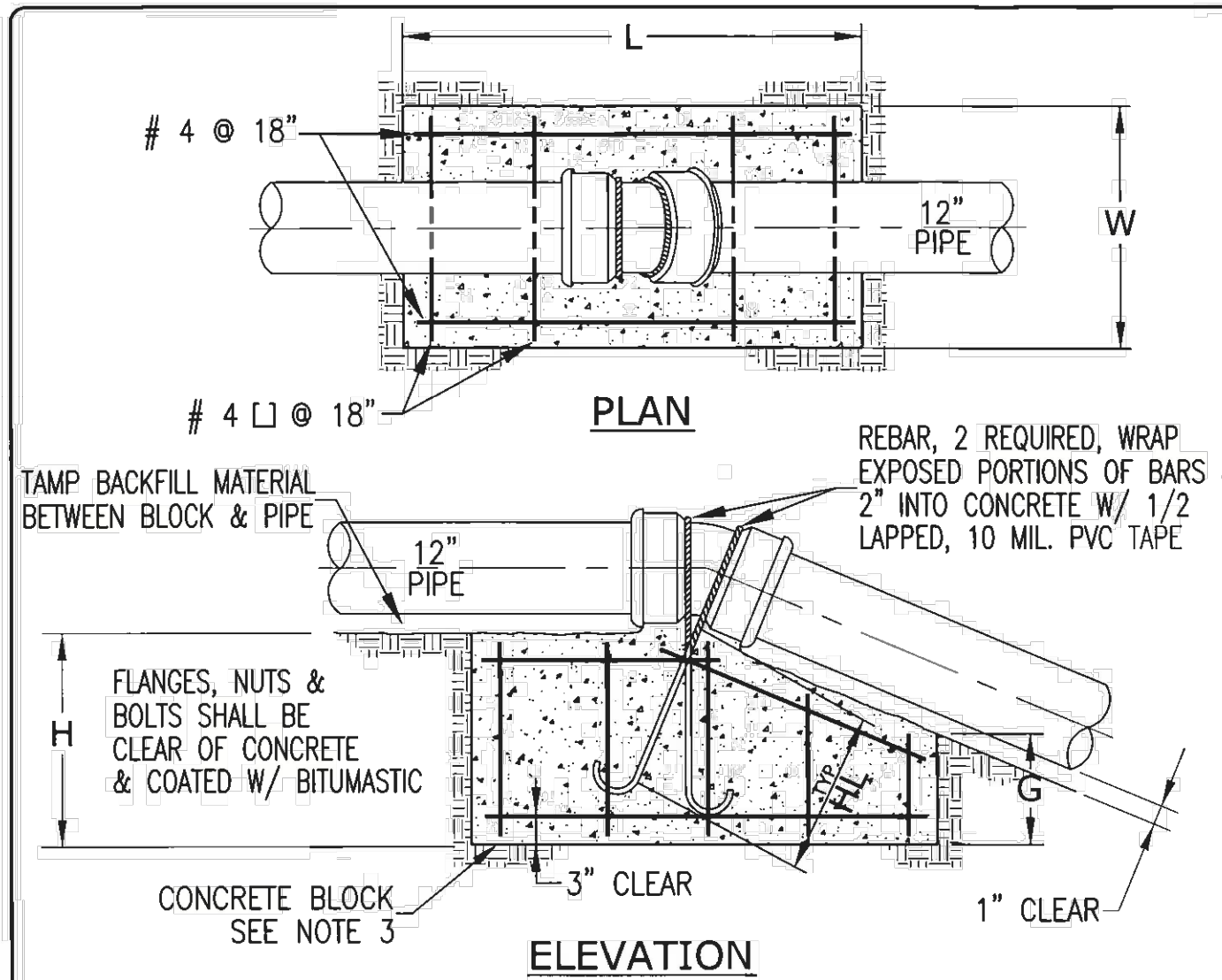
TWO WORKING DAYS BEFORE YOU DIG

- NOTES:
- 1) DISTRICT INSPECTOR SHALL BE ONSITE DURING HOT TAP.
 - 2) BACKFILL TO BE 2 SACK CONCRETE/SAND SLURRY. (TAGS REQUIRED)
 - 3) FOLLOW ALL JURISDICTIONAL PERMIT REQUIREMENTS. ALL OTHER INFORMATION ON DRAWING OR SPECIFICATIONS ARE SUPERCEDED BY THE CONSTRUCTION PERMIT REQUIREMENTS.



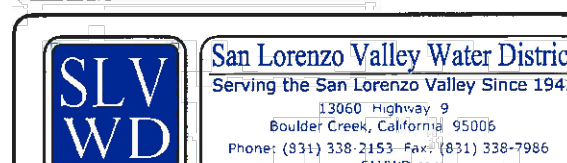
**Standard
Hot Tap Detail**

DRAWN BY:
R. Menzies
DATE DRAWN:
FEB 2016
DWG. NUMBER:
SD-14



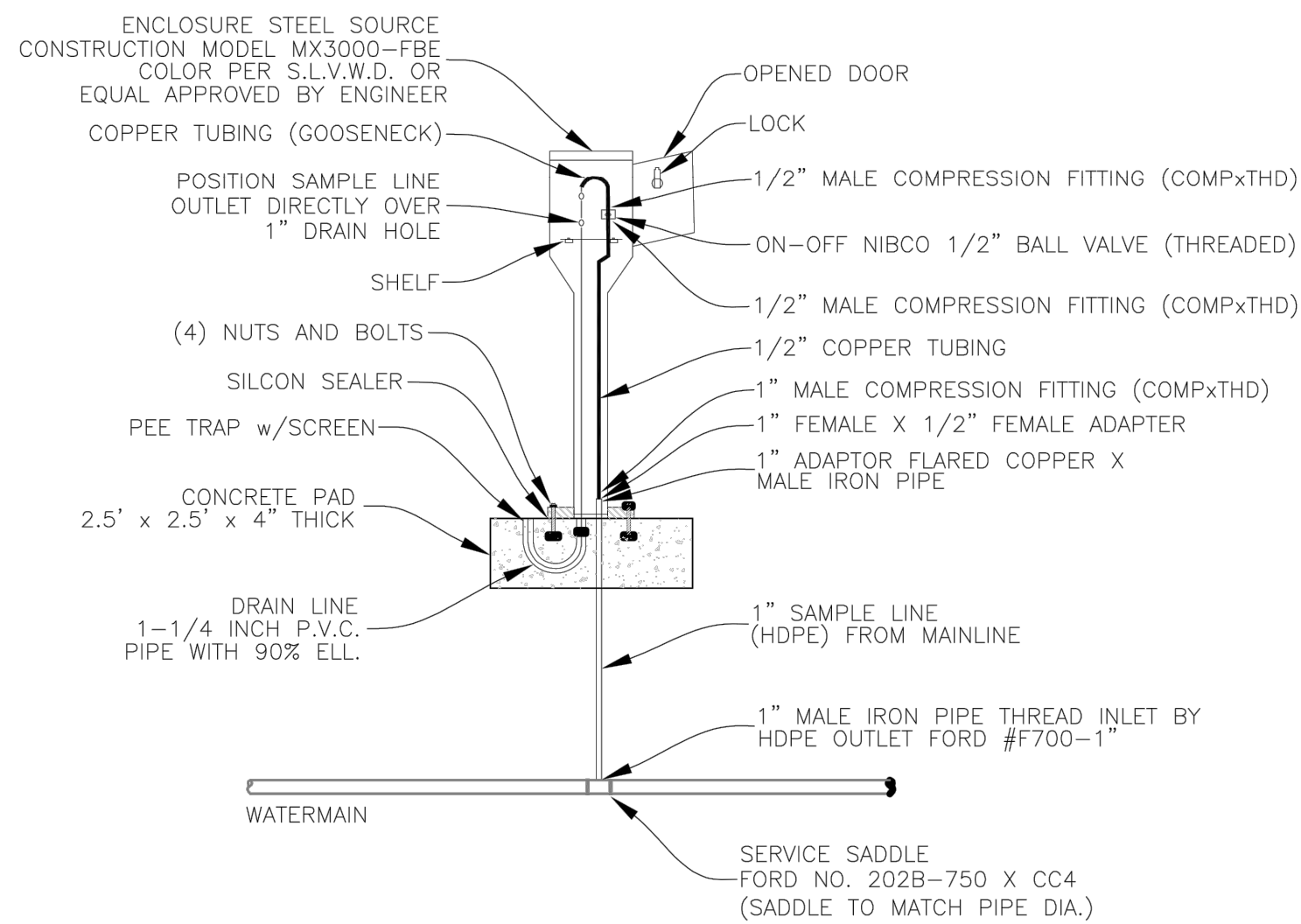
THRUST BLOCK DIMENSIONS - UPWARD THRUST																														
PIPE SIZE	11-1/4° BEND						22-1/2° BEND						45° BEND																	
	L	W	H	G	BAR	HL	L	W	H	G	BAR	HL	L	W	H	G	BAR	HL	L	W	H	G	BAR	HL						
6"	3.5	2	2.0	1	4	14	4.5	2	2.7	1	4	14	4.5	4	2.8	1	4	14	5.5	5	3.2	1.5	5	18	6.5	6	3.5	2.0	6	24
8"	3.5	3	2.3	1	4	14	4.5	4	3.0	1.5	4	14	5.5	5	3.2	1.5	5	18	6.5	6	3.5	2.0	6	24	7.5	7	4.0	2.5	7	30
10"	4	3.5	2.7	1	4	14	5	4	3.8	1.5	4	14	6	5	4.6	1.5	6	22	7.5	7	4.0	2.5	7	30	8.5	8	4.5	3.0	8	36
12"	4	3.5	3.9	1	4	14	5	4	5.4	2	5	18	6.5	5	6.2	2.5	7	32	8.5	8	4.5	3.0	8	36	9.5	9	5.0	3.5	9	42

- NOTES:
- 1) ENCASE ALL BURIED METALLIC SURFACES WITH POLYETHYLENE WRAP AS SPECIFIED IN AWWA C105.
 - 2) RESTRAINED JOINT DUCTILE IRON PIPE MAY BE USED IN PLACE OF THRUST BLOCK, CONTACT SLWD FOR APPROVAL AND DETAILS.
 - 3) DIMENSIONS L, W, H, G ARE IN FEET.
 - 4) THRUST BLOCK DIMENSIONS BASED ON 250 PSI TEST PRESSURE AND CONCRETE SHALL BE 2500 PSI MIN, 28 DAY COMPRESSIVE STRENGTH.



**Standard
Reverse (Upward) Thrust Block**

DRAWN BY:
R. Menzies
DATE DRAWN:
DEC 2014
DWG. NUMBER:
SD-21



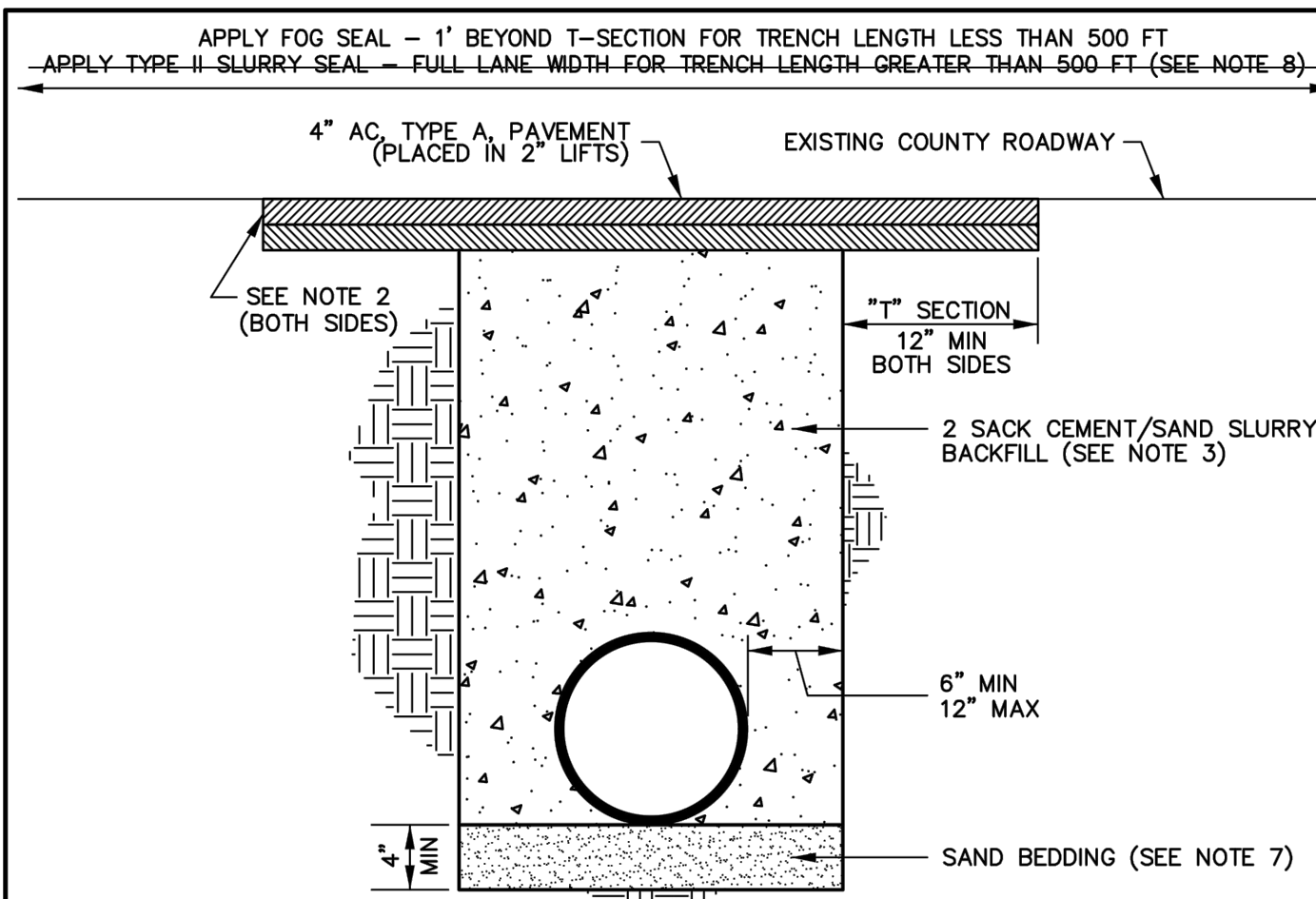
- NOTES:
- 1) WHEN INSTALLING WATER SAMPLER, 1" HDPE WILL BE APPROXIMATELY 6" ABOVE CONCRETE SLAB.
 - 2) INSERT COPPER TUBING INTO GROOVED FOOTING, THE COPPER TUBING MAY NEED TO BE CUT TO FIT INSIDE THE WATER SAMPLER.
 - 3) PLACE WATER SAMPLER CASE OVER BOTH THE COPPER TUBING AND THE 1" DRAIN HOLE.
 - 4) ATTACH THE GOOSENECK COPPER TUBING AND COMPRESSION FITTINGS.
 - 5) A SCREEN WILL BE PLACED MANUALLY IN THE PEE TRAP.



**STANDARD
WATER SAMPLING STATION**

13060 Hwy 9
Boulder Creek, CA 95006
(831) 338-2153

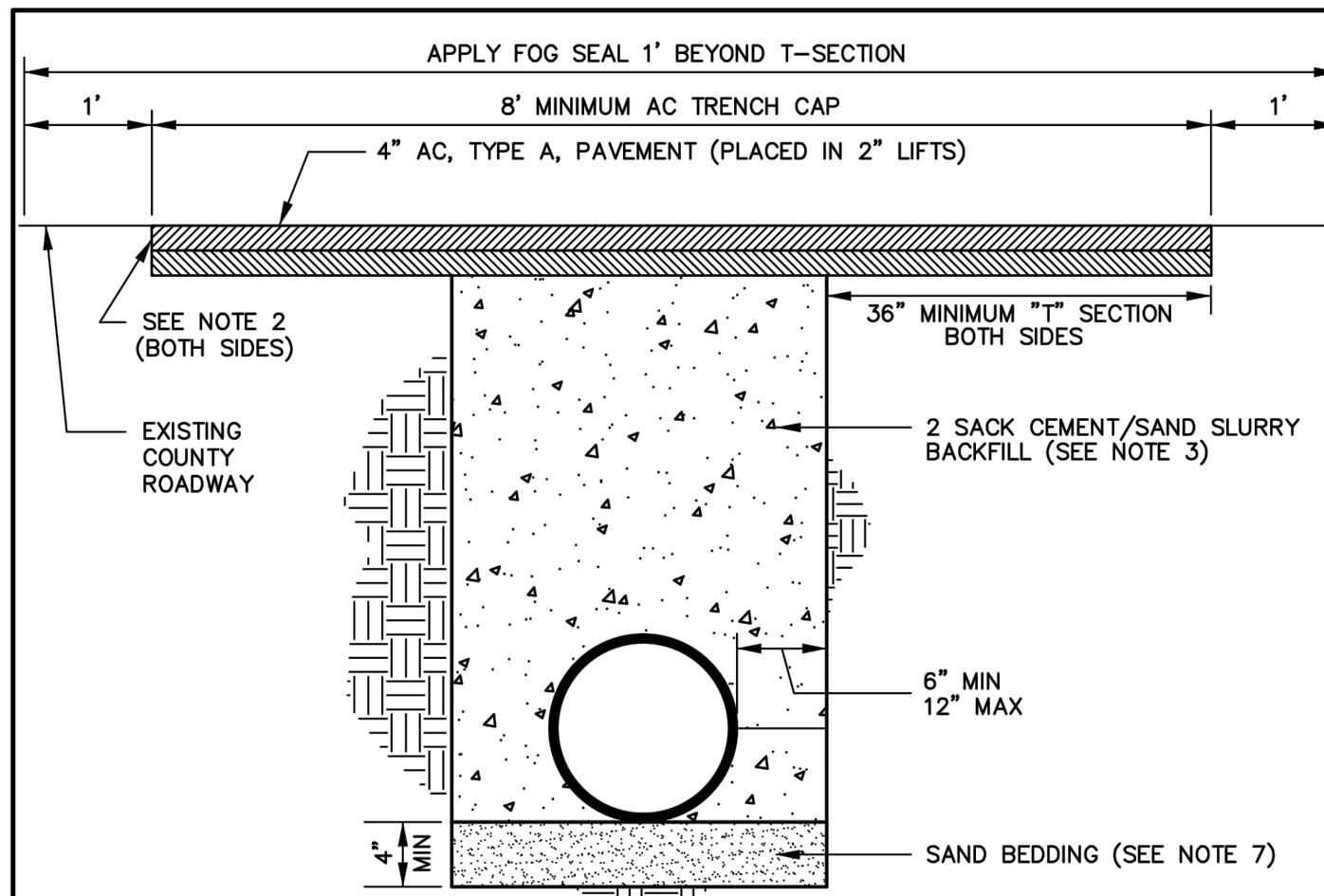
SHEET
SD-12



- NOTES:
1. MINIMUM STANDARDS ARE AS FOLLOWS:
 - A. PAVED ROADS - 4" AC, TYPE A, 1/2" MAX, PLACED IN 2" LIFTS
 - B. NON-PAVED ROADS - SINGLE SEAL COAT OVER 6" AB, CLASS 2, IN TRENCH AREA, THEN SINGLE SEAL COAT ENTIRE ROAD SECTION.
 2. CUT EXISTING PAVEMENT TO PRODUCE A STRAIGHT VERTICAL FACE AGAINST WHICH TO BUTT THE TRENCH PAVEMENT.
 3. CEMENT/SAND SLURRY SHALL BE MIXED IN A TRANSIT MIXER (CERTIFICATION TAGS REQUIRED) AND CONSIST OF 188 lbs OF CEMENT FOR EACH CUBIC YARD OF MATERIAL.
 4. TRENCHES OUTSIDE A PAVED AREA OR A ROAD RIGHT-OF-WAY SHALL HAVE BACKFILL COMPACTED TO NOT LESS THAN 90% RELATIVE COMPACTION.
 5. TRENCH CAP AND LAYOUT REQUIREMENTS:
 - A. IF THE EDGE OF THE ASPHALT TRENCH CAP IS WITHIN 2' OF THE EXISTING EDGE OF PAVEMENT, LIP OF GUTTER, OR LANE LINE, THE REMAINING PAVEMENT SHALL BE REMOVED AND THE TRENCH PAVING SHALL BE EXTENDED TO THE EDGE OF PAVEMENT, LIP OF GUTTER, OR LANE LINE.
 - B. IF THERE IS 4' OR LESS BETWEEN TRENCH CAPS, THE REMAINING PAVEMENT BETWEEN TRENCHES SHALL BE REMOVED AND TRENCH PAVING SHALL BE EXTENDED TO CREATE A SINGLE TRENCH CAP.
 6. ANY EXCEPTIONS TO THIS DETAIL MUST BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
 7. CLEAN SAND COMPACTED TO 95% RELATIVE COMPACTION MAY BE USED FOR PIPE BEDDING BELOW BOTTOM OF PIPE. FOR WATER MAIN LINES THE SAND BEDDING MAY EXTEND UP TO 12" ABOVE TOP OF PIPE. CEMENT SAND SLURRY SHALL BE USED ABOVE SAND ZONE.
 8. WHERE NO PAINTED CENTERLINE EXISTS, A FULL ROAD WIDTH TYPE II SLURRY SEAL COAT IS REQUIRED AFTER TRENCH PAVING.

LONGITUDINAL TRENCH DETAIL

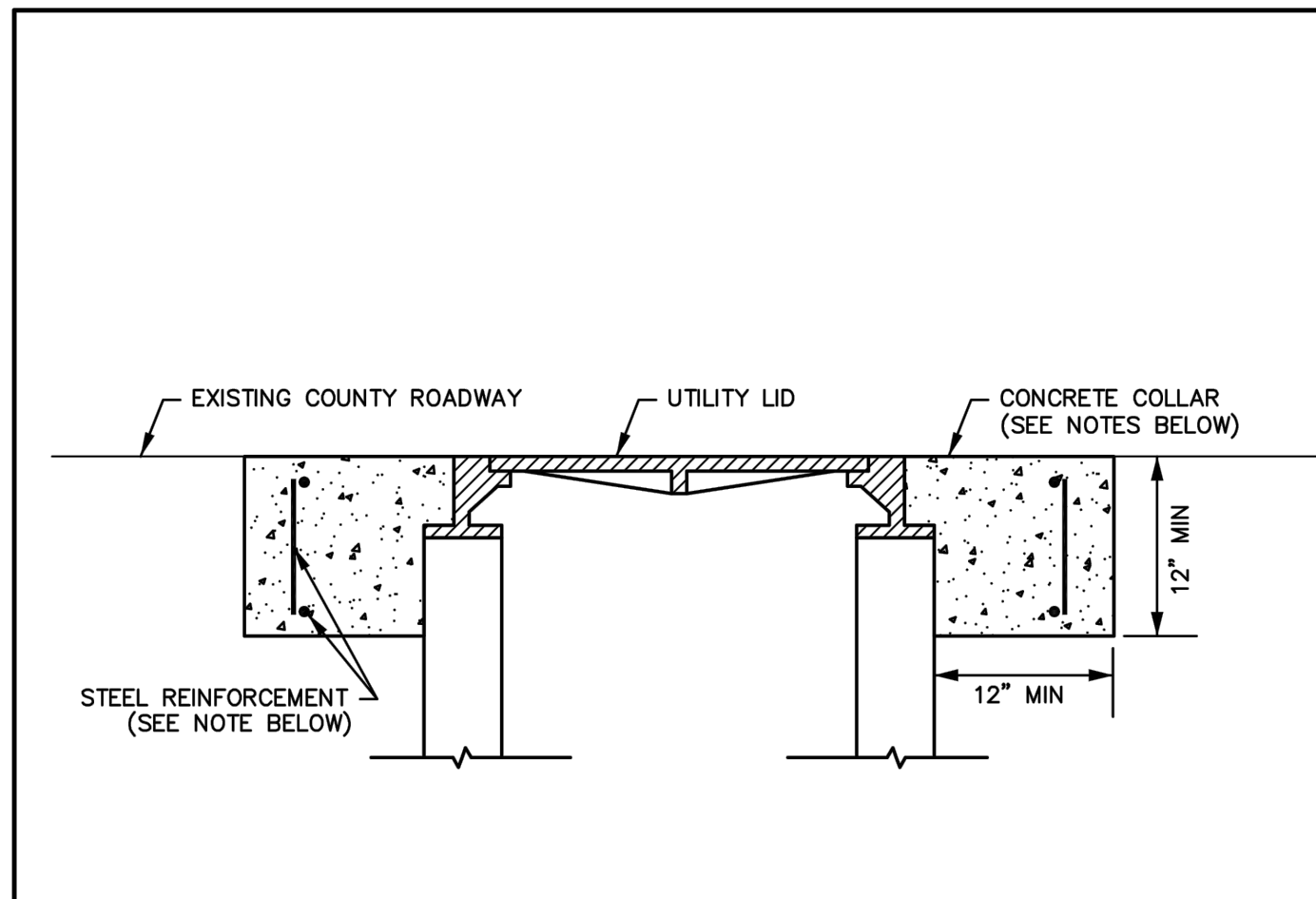
REV 5/19 SANTA CRUZ COUNTY STANDARD DETAIL FIG. EP-1



- NOTES:
1. MINIMUM STANDARDS ARE AS FOLLOWS:
 - A. PAVED ROADS - 4" AC, TYPE A, 1/2" MAX, PLACED IN 2" LIFTS
 - B. NON-PAVED ROADS - SINGLE SEAL COAT OVER 6" AB, CLASS 2, IN TRENCH AREA, THEN SINGLE SEAL COAT ENTIRE ROAD SECTION.
 2. CUT EXISTING PAVEMENT TO PRODUCE A STRAIGHT VERTICAL FACE AGAINST WHICH TO BUTT THE TRENCH PAVEMENT.
 3. CEMENT/SAND SLURRY SHALL BE MIXED IN A TRANSIT MIXER (CERTIFICATION TAGS REQUIRED) AND CONSIST OF 188 lbs OF CEMENT FOR EACH CUBIC YARD OF MATERIAL.
 4. TRENCHES OUTSIDE A PAVED AREA OR A ROAD RIGHT-OF-WAY SHALL HAVE BACKFILL COMPACTED TO NOT LESS THAN 90% RELATIVE COMPACTION.
 5. TRENCH CAP AND LAYOUT REQUIREMENTS:
 - A. IF THE EDGE OF THE ASPHALT TRENCH CAP IS WITHIN 2' OF THE EXISTING EDGE OF PAVEMENT, LIP OF GUTTER, OR LANE LINE, THE REMAINING PAVEMENT SHALL BE REMOVED AND THE TRENCH PAVING SHALL BE EXTENDED TO THE EDGE OF PAVEMENT, LIP OF GUTTER, OR LANE LINE.
 - B. IF THERE IS 4' OR LESS BETWEEN TRENCH CAPS, THE REMAINING PAVEMENT BETWEEN TRENCHES SHALL BE REMOVED AND TRENCH PAVING SHALL BE EXTENDED TO CREATE A SINGLE TRENCH CAP.
 6. ANY EXCEPTIONS TO THIS DETAIL MUST BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
 7. CLEAN SAND COMPACTED TO 95% RELATIVE COMPACTION MAY BE USED FOR PIPE BEDDING BELOW BOTTOM OF PIPE. FOR WATER MAIN LINES THE SAND BEDDING MAY EXTEND UP TO 12" ABOVE TOP OF PIPE. CEMENT SAND SLURRY SHALL BE USED ABOVE SAND ZONE.
 8. WHEN MULTIPLE CROSS TRENCHES ARE INSTALLED OR WHEN A CROSS TRENCH IS INSTALLED IN COMBINATION WITH A LONGITUDINAL TRENCH, A TYPE II SLURRY SEAL COAT MAY BE REQUIRED.

CROSS TRENCH DETAIL

REV 5/19 SANTA CRUZ COUNTY STANDARD DETAIL FIG. EP-2



- NOTES:
1. CONCRETE COLLAR SHALL EXTEND TO BE FLUSH WITH ADJACENT ROADWAY SURFACE, NO ASPHALT SHALL BE PLACED OVER TOP.
 2. CONCRETE SHALL USE TYPE III HIGH-EARLY STRENGTH CEMENT WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI.
 3. BROADCAST 1 LB OF LAMPBLACK PIGMENT ON CONCRETE SURFACE DURING CURE TO ACHIEVE DARKENED APPEARANCE.
 4. CONCRETE COLLAR SHALL BE PROTECTED FROM TRAFFIC USING TRENCH PLATES OR OTHER ACCEPTABLE MEANS. CONCRETE SHALL NOT BE REOPENED TO TRAFFIC UNTIL A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI HAS BEEN ACHIEVED.
 5. CONCRETE SHALL BE REINFORCED HORIZONTALLY WITH #4 REBAR HOOP AROUND GRADE RING AT TOP & BOTTOM, AND VERTICALLY WITH #4 REBAR TIES SPACED AT 12". REBAR SHALL BE KEPT A MINIMUM OF 2" CLEAR FROM ALL EDGES.
 6. THIS DETAIL SHALL APPLY TO MANHOLES, VAULTS, VALVE BOXES, MONUMENT WELLS, OR ANY OTHER UTILITY LID STRUCTURE LOCATED WITHIN COUNTY MAINTAINED ROADWAYS. CONCRETE COLLAR SHALL BE ROUND FOR CIRCULAR UTILITY LIDS AND RECTANGULAR FOR RECTANGULAR LIDS.

**UTILITY LID PAVING DETAIL
FOR UTILITY LIDS LOCATED ON COUNTY MAINTAINED ROADWAYS**

REV 5/19 SANTA CRUZ COUNTY STANDARD DETAIL FIG. EP-5



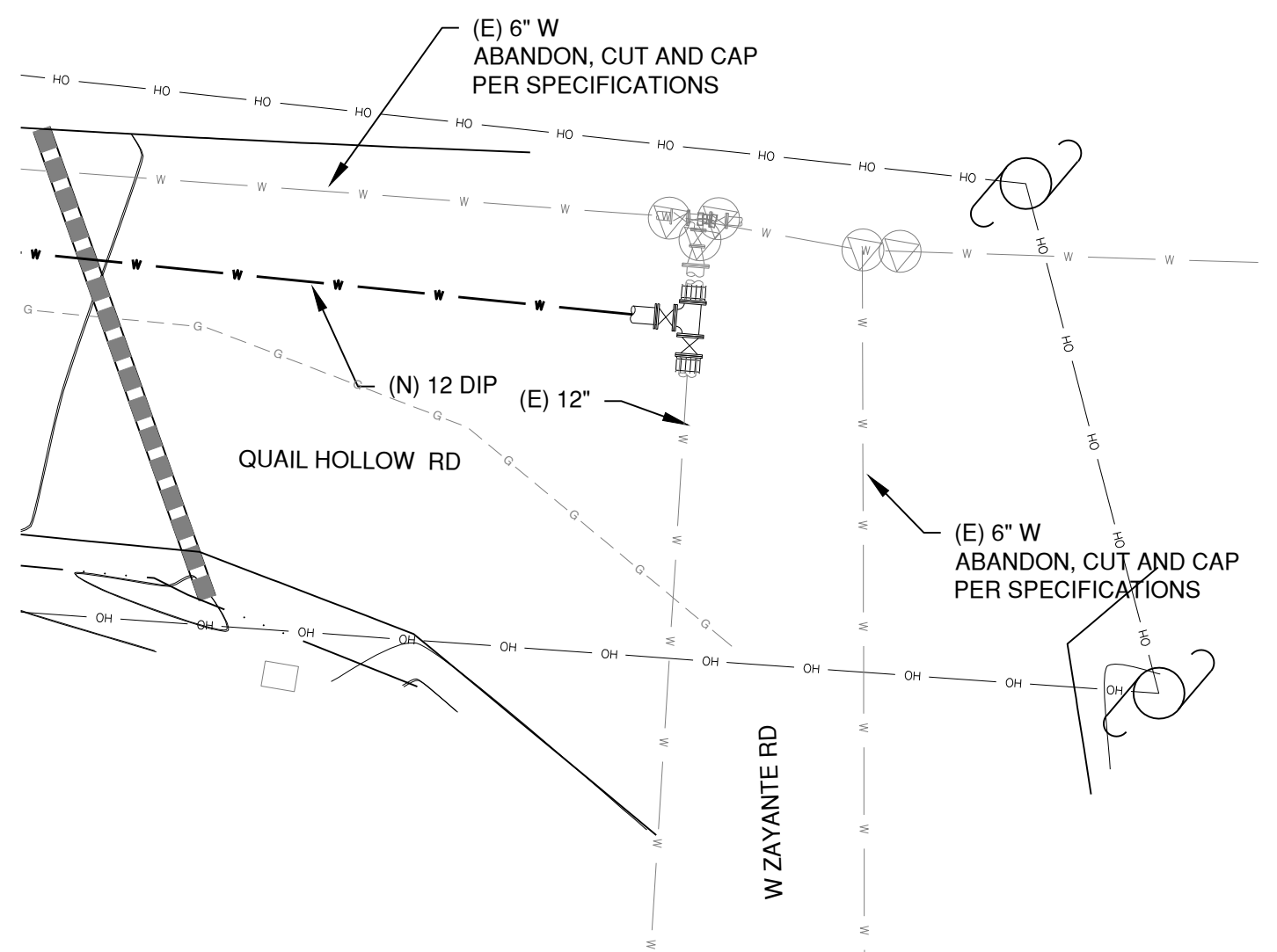
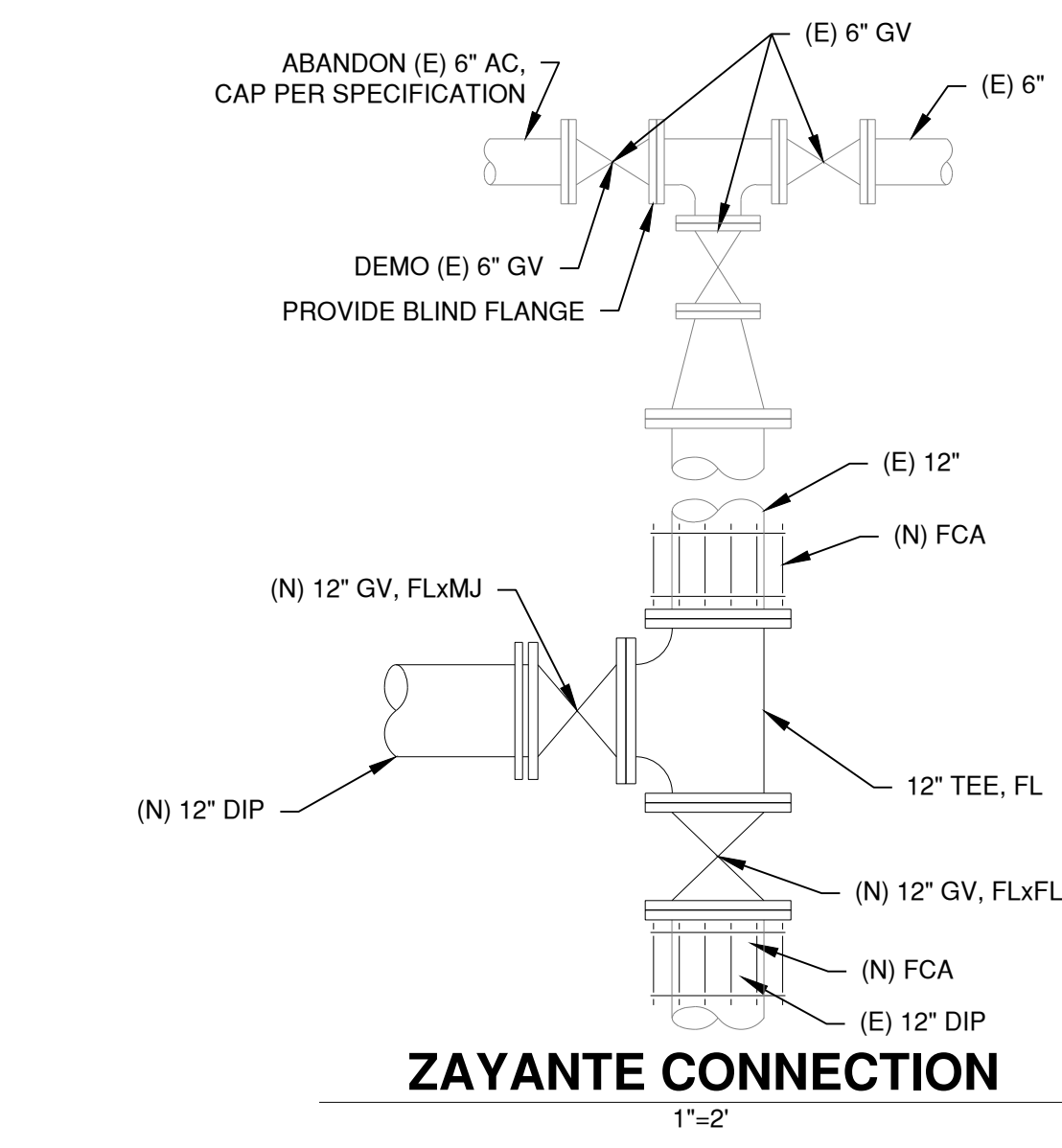
**STANDARD DETAILS - II
QUAIL HOLLOW ROAD
PIPELINE REPLACEMENT**



DESIGNED BY: JCT DATE: 7/12/2021
DRAWN BY: JCT DATE: 7/12/2021
QC CHECKED BY: AAS DATE: 7/12/2021
PROJECT NO.:
SCALE: AS SHOWN
SUBMITTAL: 100% SUBMITTAL

C6.2
SHEET 13 OF 14

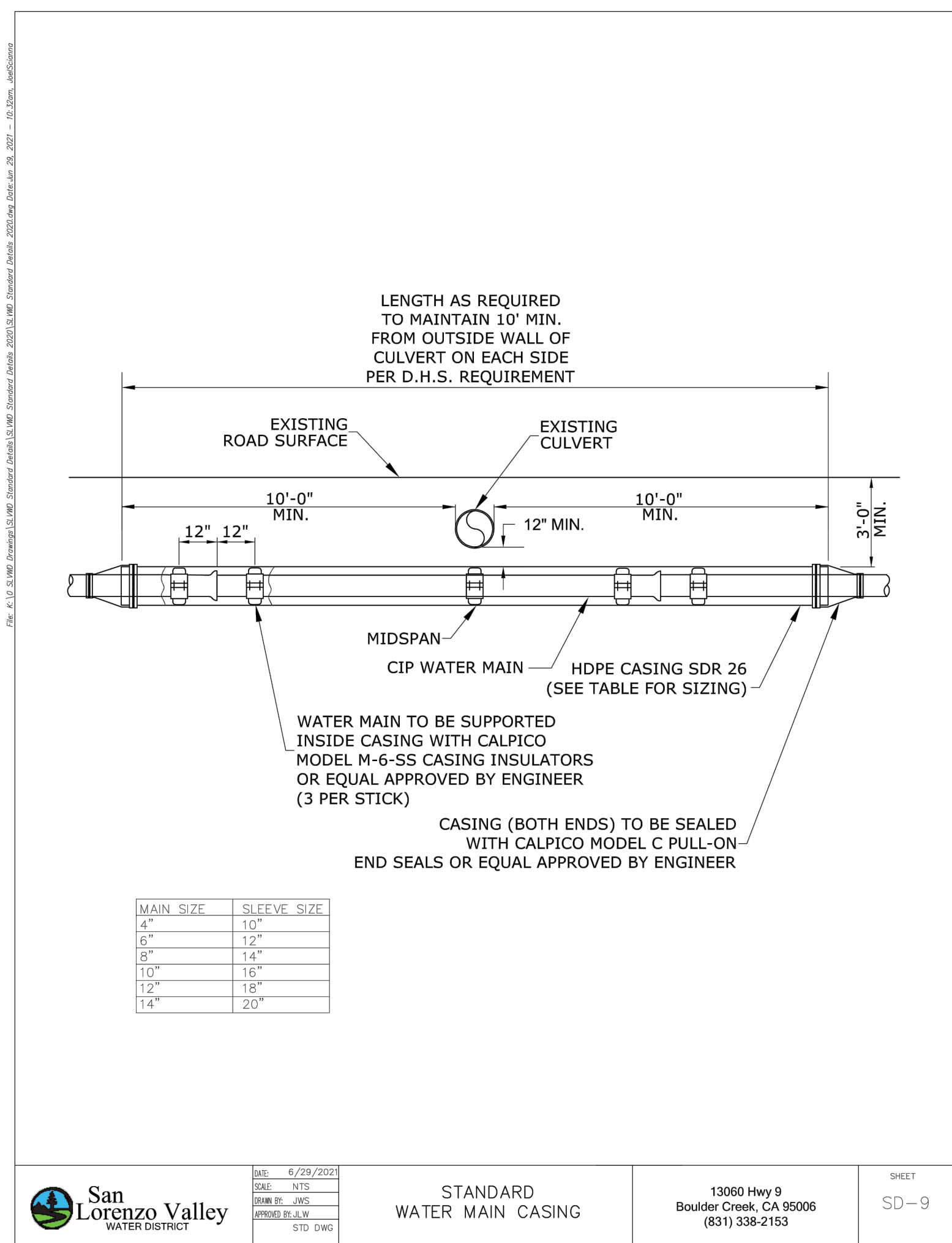
C:\USERS\JTABLE\Desktop\TOPSOIL\WDO CHQIAL HOLLOW WORKING\WDO_PIPELINES-DETAILS.DWG 7/12/2021 BY JTABLE



ZAYANTE CONNECTION

1"=10'

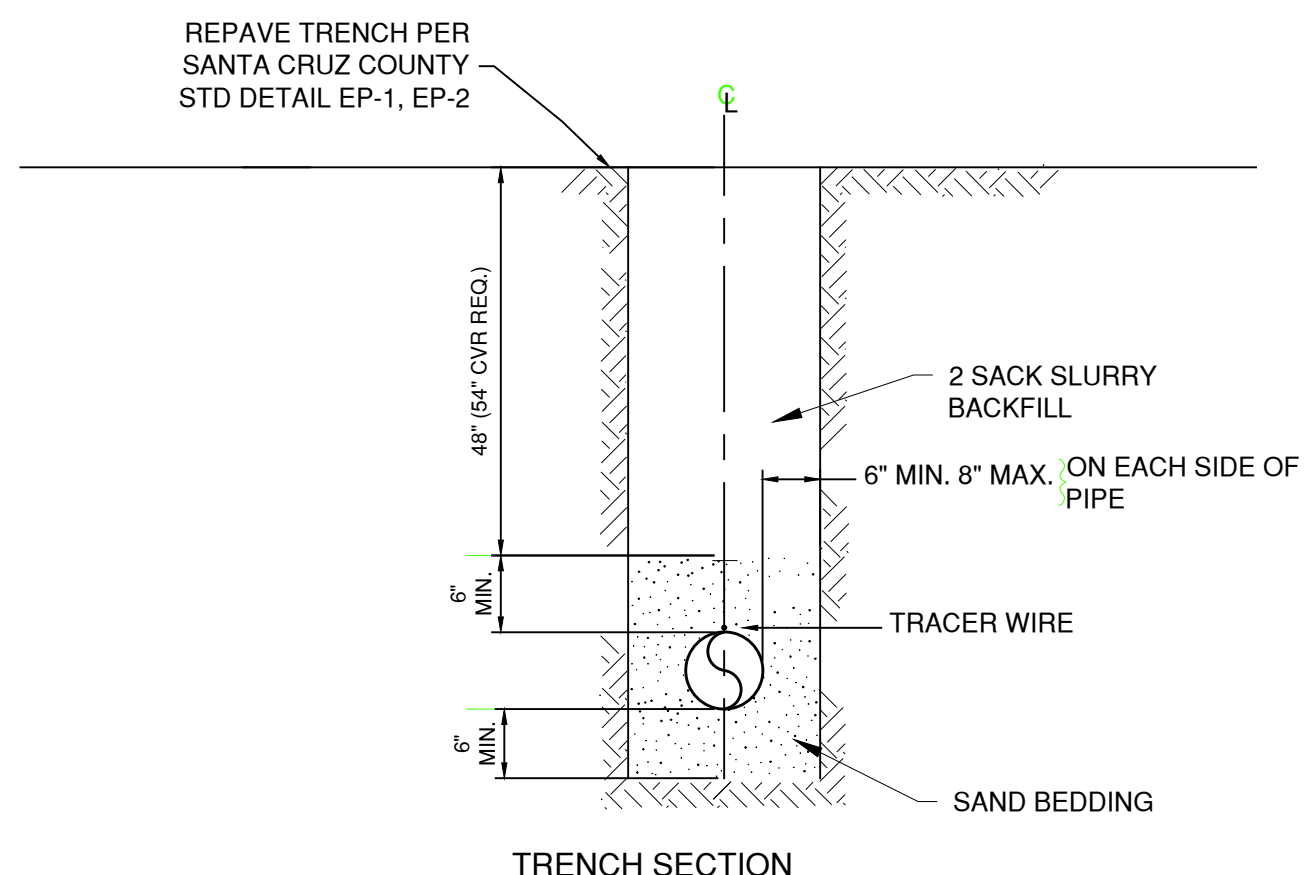
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PIPE UNDERCROSS

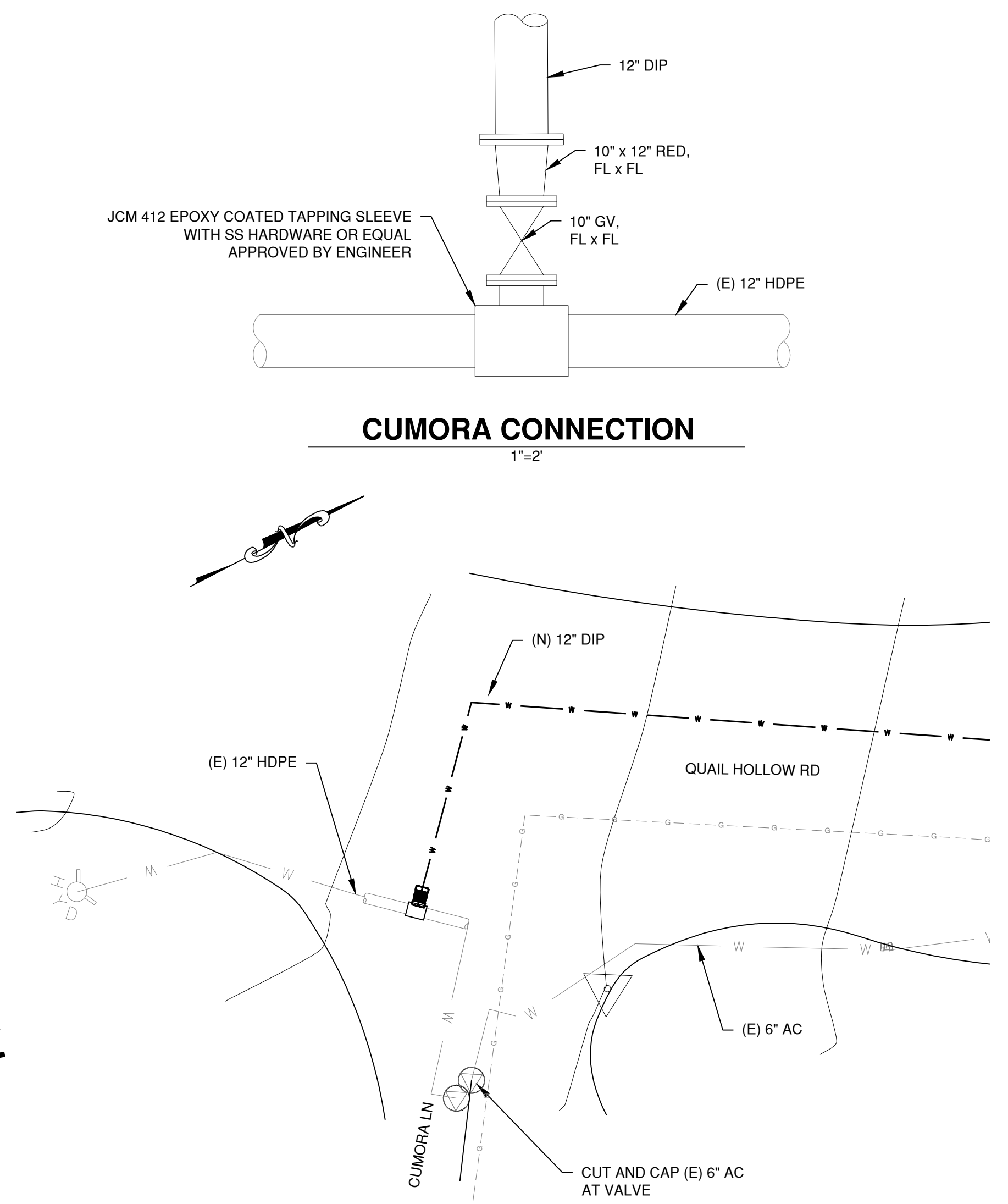
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2



PIPE BEDDING

NTS



NOTE: CONTRACTOR TO POTHOLE AND VERIFY WITH OWNER ALL EXISTING PIPELINES AND CONNECTIONS.

CUMORA CONNECTION

1"=10'

3

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
1-800 227-2600
TWO WORKING DAYS BEFORE YOU DIG

REV. NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

Schaaf & Wheeler
CONSULTING CIVIL ENGINEERS
3 Quail Run Circle, Suite 101
Salinas, CA 93907-2348
(831) 883-4848

REGISTERED PROFESSIONAL ENGINEER
No. 69703
CIVIL
STATE OF CALIFORNIA

DETAILS

QUAIL HOLLOW ROAD

PIPELINE REPLACEMENT

San Lorenzo Valley WATER DISTRICT

DESIGNED BY:	JCT	DATE:	7/12/2021
DRAWN BY:	JCT	DATE:	7/12/2021
QC CHECKED BY:	AAS	DATE:	7/12/2021
PROJECT NO.:			
SCALE:	AS SHOWN		
SUBMITTAL:	100% SUBMITTAL		

C6.3

SHEET 14 OF 14