

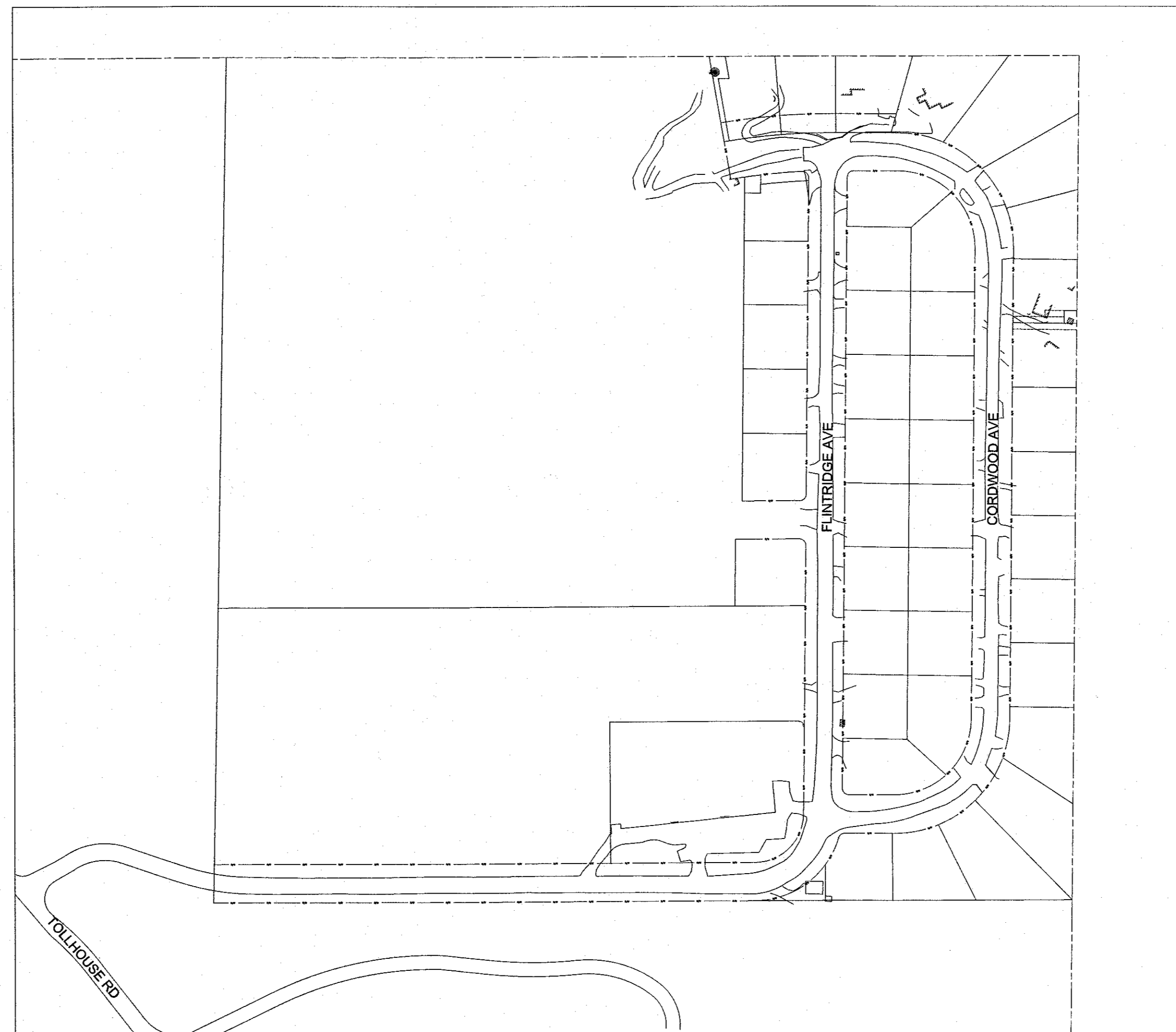
Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCIDWFG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\42360T001.DWG 10/16/2024 9:13 AM - SINGLETON, RICHARD

PLANS FOR CONSTRUCTION

CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT

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

SHEET NO.	TITLE
01	TITLE
02	LEGEND
03	GENERAL NOTES
04	INDEX SHEET
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07-08	PLAN AND PROFILE - WATER LINE A
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15	OVERLAY PLAN
16-23	CONSTRUCTION DETAILS

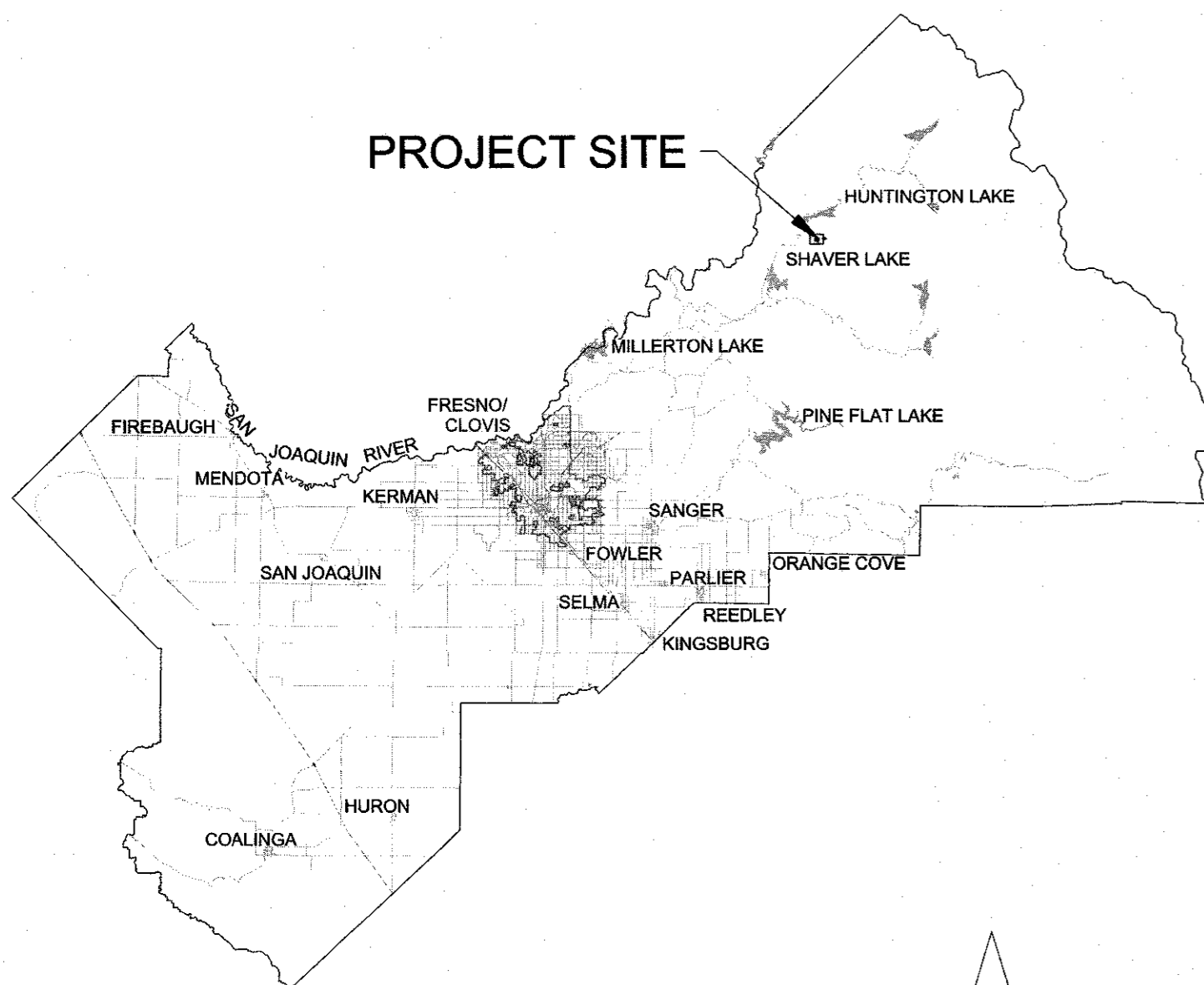


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|-----------------------|---------------|-----|----------|
| Brian Pacheco | Vice Chairman | 1st | District |
| Steve Brandau | | 2nd | District |
| Sal Quintero | | 3rd | District |
| Ernest "Buddy" Mendes | Chairman | 4th | District |
| Nathan Magsig | | 5th | District |

Paul Nerland
County Administrative Officer

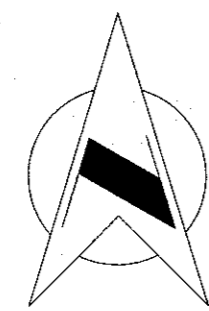
APPROVED _____

Steven E. White, Director
Department of Public Works and Planning



PROJECT SITE

VICINITY MAP
SCALE: N.T.S.



LOCATION MAP
SCALE: 1"=150'



DEPARTMENT OF PUBLIC WORKS AND PLANNING

DIVISION	DESIGN	CONST	RMO	RESC
SIGNATURE	<i>MA</i>			<i>DA</i>
DATE	10/17/2024			10/17/24

CALIFORNIA CONTRACTOR'S LICENSES REQUIRED FOR THIS PROJECT					
CLASS A, GENERAL ENGINEERING					
C-34, PIPELINE CONTRACTOR					
DRAWING NO.	ROAD NO.	BRIDGE NO.	FISCAL YR.	SHEET NO.	TOTAL
11334	-	N/A	24/25	01	23
CONTRACT NO. 24-15-C					

RECORD DRAWING	
CONTRACTOR	
NAME	
ADDRESS	
CITY	STATE ZIP
PHONE	
DATE AWARDED	
DATE STARTED	
DATE COMPLETED	
RESIDENT ENGINEER	
NAME	SIGNATURE
NAME	SIGNATURE

GENERAL LEGEND

REFERENCE NOTES

- 1) INSTALL 1" WATER SERVICE WITH METER AND METER BOX DITCH CROSSING PER DETAIL 7 SHEET CD-3
2) INSTALL HDPE 22.5" BEND
3) INSTALL HDPE 45" BEND
4) INSTALL HDPE 90" BEND
5) INSTALL HDPE 6" X 6" TEE
6) INSTALL HDPE 2" X 2" TEE
7) INSTALL HDPE 6"X3" TEE
8) CEMENT SLURRY UTILITY CROSSING PER DETAIL 1 ON SHEET CD-4
9) INSTALL 4" PRESSURE REDUCING VALVE W/ 1" MANIFOLD, 1" PRESSURE REDUCING VALVE, AND MISCELLANEOUS FITTINGS PER DETAIL 1 ON SHEET CD-3
10) INSTALL OVER CROSSING PER DETAIL 2 ON SHEET CD-3
11) INSTALL 1" WATER SERVICE, METER PER DETAIL 5 ON SHEET CD-2.
12) PROPOSED WATER STORAGE TANK PER SHEET CD-6 - CD-7
13) REMOVE AND DISPOSE FIRE HYDRANT PER DETAIL 3 SHEET CD-3
14) INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL 1 SHEET CD-2
15) EXISTING WATER SERVICE LOCATION KNOWN.
16) EXISTING SEWER SERVICE LOCATION KNOWN
17) EXISTING WATER SERVICE LOCATION UNKNOWN. CONTRACTOR TO LOCATE
18) EXISTING SEWER SERVICE LOCATION UNKNOWN. CONTRACTOR TO LOCATE
19) TEMPORARY RELOCATION OF EXISTING WATER MAIN PER DETAIL 7 SHEET CD-2
20) INSTALL BLIND FLANGE AT GATE VALVE OUTLET
21) INSTALL 6" GATE VALVE PER DETAIL 3 SHEET CD-2
22) INSTALL 2" GATE VALVE PER DETAIL 3 SHEET CD-2
23) INSTALL HDPE 3" X 3" TEE
24) INSTALL HDPE 3" X 2" REDUCER
25) REMOVE TREE IF REQUIRED FOR THE CONSTRUCTION OF THE TEMPORARY ACCESS ROAD
26)
27) INSTALL HDPE 3" X 6" REDUCER
28) INSTALL 1" WATER SERVICE, METER FOR EMPTY LOT PER DETAIL 4 SHEET CD-4
29) INSTALL 2" WATER SERVICE, METER PER DETAIL 5 SHEET CD-2
30) REMOVE PRESSURE REDUCING VALVE AND VAULT PER DETAIL 5 SHEET CD-4
31) ABANDON WATER VALVE PER DETAIL 4 SHEET CD-3
32) INSTALL BACTERIOLOGICAL SAMPLING STATION PER DETAIL 4 SHEET CD-1
33) COMBINATION AIR RELEASE VALVE PER DETAIL 1 SHEET CD-5. CONNECT AT HIGHEST POINT OF WATER LINE
34)
35) INSTALL CONCRETE WATER LINE ANCHOR EVERY 15 FEET OF ELEVATION PER DETAIL 2 SHEET CD-5.
36) CONSTRUCT 1" WATER SERVICE LINE DOWNSTREAM OF METER PER SPECIFICATION SECTION 99-2.02M (1)
37) ADJUST SEWER MANHOLE TO GRADE

ABBREVIATIONS

Table with columns for abbreviations and their corresponding full names. Includes categories like DI (DRAINAGE INLET), RT (RIGHT ROUTE), and various pipe and material types.

CONSTRUCTION SYMBOLS

Table of construction symbols including curbs (Type A, B3, FA), sidewalks (Commercial, Residential), driveways (AC, DIRT, CONC), and various signs and markers.

EXISTING IMPROVEMENTS

Table of existing improvement symbols such as rock/boulder, tree stump, utility pole, sewer manhole, and water valve.

UTILITY SYMBOLS

Table of utility symbols for proposed and existing utilities, including stand pipes, gas lines, electric lines, water lines, and various valves and meters.

UTILITY NOTES

- 1. LOCATIONS OF EXISTING UNDERGROUND FACILITIES ARE APPROXIMATE EXACT DEPTH AND LOCATIONS ARE UNKNOWN. FIELD LOCATE PRIOR TO THE START OF CONSTRUCTION.
CALL UNDERGROUND SERVICE ALERT (USA) 811
2. WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED.

Table for RECORD DRAWING with columns for DATE, RESIDENT ENGINEER, and DATE.

SCALE section containing a signature of the SUPERVISING ENGINEER and the DATE 4/4/2024.

PROJECT section for CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT, including ROAD NO. and BRIDGE NO.

DEPARTMENT OF PUBLIC WORKS AND PLANNING LEGEND LG-1, including DRAWING NO. 11334, SHEET NO. 02, and TOTAL 23.

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCIDWRG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\42360T001.DWG 10/16/2024 9:13 AM - SINGLETON, RICHARD

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCD\DWG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\42360001.DWG 10/16/2024 9:13 AM - SINGLETON, RICHARD

SURVEY CONTROL

HORIZONTAL DATUM
NORTH AMERICAN DATUM OF 1983 (NAD83).

COORDINATE SYSTEM
COORDINATES SHOWN HEREON ARE GROUND AND BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE IV.

VERTICAL DATUM
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

PROJECT BENCHMARK (POINT# 15001)
SET MAG NAIL, POINT# 15001, IN ASPHALT, ALONG THE SOUTH SIDE OF FLINTRIDGE DRIVE, LOCATED APPROXIMATELY 360' EAST OF THE FLINTRIDGE DRIVE AND TOLLHOUSE ROAD INTERSECTION, 130' SOUTHWEST OF THE "AHEAD" STENCIL, 100' EAST OF A "NO PARKING" SIGN, AND 2' NORTH OF THE EDGE OF PAVEMENT.
ELEVATION = 7208.59 FEET (NAVD88)

SURVEY NOTES

1. THE FIELD WORK FOR THIS SURVEY WAS CONDUCTED IN JUNE 2023.
2. NO ATTEMPT WAS MADE TO IDENTIFY THE NATURE OF USE OF UNDERLYING LAND SHOWN HEREON. ANY POTENTIAL PAST USES, INCLUDING THOSE WHICH MAY HAVE RESULTED IN SIGNIFICANT ENVIRONMENTAL OR CULTURAL IMPACTS, WERE NOT ASSESSED BY THIS SURVEY.
3. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ON THIS SITE, IT IS ADVISED THAT ALL INVOLVED PARTIES REVIEW SECTION 8771 AND SECTION 8725 OF THE CALIFORNIA BUSINESS AND PROFESSIONS CODE, AND SECTION 605 OF THE CALIFORNIA PENAL CODE TO ENSURE THAT MONUMENT CONSERVATION HAS BEEN PROPERLY ADDRESSED.
4. NOTHING ON THIS SURVEY SHALL BE INTERPRETED IN A MANNER CONTRARY TO THESE STATEMENTS.
5. PHYSICAL ITEMS SHOWN ON THIS SURVEY ARE LIMITED TO THOSE SURFACE-VISIBLE STRUCTURES, FACILITIES, AND FEATURES OBSERVED AT THE TIME OF THE FIELD SURVEY. SUBSURFACE OBJECTS, IF ANY, WERE NOT LOCATED BY THIS SURVEY.
6. BOUNDARY LINES (STREET CENTERLINES, ROAD RIGHTS-OF-WAY, PARCEL LINES, EASEMENTS, SECTION LINES, ETC.) ARE FOR CONCEPTUAL PURPOSES ONLY AND PLOTTED FROM RECORD INFORMATION ONLY. BOUNDARY SURVEY INFORMATION SHOWN HEREON IS BASED ON A FIELD SURVEY AND RESEARCH OF PUBLICLY AVAILABLE RECORDS AT THE TIME OF THE SURVEY. NO TITLE REPORT WAS PROVIDED OR OBTAINED.

CONSTRUCTION NOTES

1. SEWER, WATER, GAS AND STORM DRAIN UTILITY CROSSINGS:
 - A. THE CONTRACTOR SHALL VERIFY THE DEPTH OF THE EXISTING UTILITY PIPES AS THE FIRST ORDER OF WORK AND SHALL NOTIFY THE ENGINEER OF ANY OBSERVED CONFLICTS WITH THE PROPOSED WATER MAIN PROFILES. IN NO CASE WILL LESS THAN 4" CLEARANCE BE ALLOWED BETWEEN EXISTING UTILITIES, EXCEPT EXISTING WATER LINES AND NEW WATER MAINS.
 - B. IF THE NEW WATER MAIN IS ABOVE OR BELOW THE EXISTING UTILITY PIPE AND CLEARANCE IS LESS THAN 12", THE CONTRACTOR SHALL CEMENT SLURRY BACKFILL AND INSTALL PIPE AS SHOWN PER DETAIL 1 ON SHEET CD-4.
2. SEWER LATERAL CROSSINGS:
 - A. NEW WATER MAINS SHALL BE INSTALLED ABOVE EXISTING SEWER HOUSE BRANCH LATERALS WITH A MINIMUM CLEARANCE OF 4".
 - B. WHEREVER NECESSARY, EXISTING SEWER HOUSE BRANCH LATERALS IN CONFLICT WITH THE NEW WATER MAIN PROFILE SHALL BE REMOVED AND REINSTALLED AS SHOWN PER DETAIL 6 ON CD-2.
3. MINIMUM DEPTH OF COVER OVER THE NEW WATER MAINS SHALL BE A MINIMUM OF 3 FEET. ANYWHERE MINIMUM COVER CANNOT BE ACHIEVED, IMPROVED PIPE BEDDING, INCLUDING CONCRETE SLURRY CRADLES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.

SPECIAL NOTE

WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THE PLANS, THE LOCATIONS, DEPTH AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. SUCH STRUCTURES ARE SHOWN FOR THE INFORMATION OF THE CONTRACTOR, BUT INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY REPRESENT ALL OF THE STRUCTURES WHICH MAY BE ENCOUNTERED.

SITE SAFETY AND PROTECTION NOTES

THE DUTY OF THE ENGINEER, OWNER OR ITS AGENTS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE AND THE UNDERTAKING OF INSPECTIONS OR THE GIVING OF INSTRUCTIONS AS AUTHORIZED HEREIN IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF THE ACTUAL CONSTRUCTION NOR MAKE THE ENGINEER, OWNER OR ITS AGENTS RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, OR SUPPLIERS, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL OR OCCUPANCY BY ANY PERSON.

THE CONTRACTOR SHALL HAVE AT THE WORK SITE, COPIES OR SUITABLE EXTRACTS OF CONSTRUCTION SAFETY ORDERS, ISSUED BY CAL-OSHA. CONTRACTOR SHALL COMPLY WITH PROVISIONS OF THESE AND ALL OTHER APPLICABLE LAWS, ORDINANCES AND REGULATIONS. THE CONTRACTOR MUST COMPLY WITH PROVISIONS OF THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, PROMULGATED BY THE SECRETARY OF LABOR UNDER SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT, AS SET FORTH IN TITLE 29 C.F.R.

TO PROTECT THE LIVES AND HEALTH OF CONTRACTOR'S EMPLOYEES UNDER THE CONTRACT, THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" ISSUED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, INC., AND SHALL MAINTAIN AN ACCURATE RECORD OF ALL CASES OF DEATH, OCCUPATIONAL DISEASE, AND INJURY REQUIRING MEDICAL ATTENTION OR CAUSING LOSS OF TIME FROM WORK, ARISING OUT OF AND IN THE COURSE OF EMPLOYMENT OR WORK UNDER THE CONTRACT.

THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR THE SAFETY, EFFICIENCY, AND ADEQUACY OF CONTRACTOR'S FACILITIES, APPLIANCES, AND METHODS AND FOR ANY DAMAGE, WHICH MAY RESULT FROM THEIR FAILURE OR THEIR IMPROPER CONSTRUCTION, MAINTENANCE OR OPERATION.

THE CONTRACTOR AGREES THAT IT SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, PROVOST & PRITCHARD CONSULTING GROUP, AND THEIR RESPECTIVE AGENTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF OWNER, ENGINEER, OR THEIR RESPECTIVE AGENTS.

THE OWNER AND ITS AGENTS' SITE RESPONSIBILITIES ARE LIMITED SOLELY TO THE ACTIVITIES OF THEIR EMPLOYEES ON SITE. THESE RESPONSIBILITIES SHALL NOT BE INFERRED BY ANY PARTY TO MEAN THAT THE OWNER OR ITS AGENTS HAVE RESPONSIBILITY FOR SITE SAFETY, SAFETY IN, ON, OR ABOUT THE SITE IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR ALONE. THE CONTRACTOR'S METHODS OF WORK PERFORMANCE, SUPERINTENDENCE AND THE CONTRACTOR'S EMPLOYEES, AND SEQUENCING OF CONSTRUCTION ARE ALSO THE SOLE AND EXCLUSIVE RESPONSIBILITIES OF THE CONTRACTOR ALONE.

EXCESS MATERIAL AND DEBRIS SHALL BE REMOVED FROM THE ROAD RIGHT-OF-WAY AND DISPOSED OF BY THE CONTRACTOR AT THE END OF CONSTRUCTION OPERATIONS, NIGHTLY.

WATER FACILITY NOTES

1. THE WORK CONTAINED HEREIN SHALL COMPLY WITH TITLE 22 SECTION 64572 OF THE CALIFORNIA CODE OF REGULATIONS.
2. USED MATERIAL, REJECTS, MISFITS, OR SECONDS, ETC. ARE NOT ACCEPTABLE FOR USE ON COUNTY OF FRESNO FACILITIES.
3. TYPICAL MINIMUM PIPE COVER FOR ALL HDPE PIPE SHALL BE 3.0 FEET (2.5 FEET ALLOWED WHERE APPROVED BY THE ENGINEER.)
4. WATER MAIN SHALL BE INSTALLED WITH BEDDING, PIPE ZONE BACKFILL, MARKER TAPE, AND TRACER WIRE PER DETAIL 3 ON SHEET CD-1. TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE GEOTECHNICAL REPORT CONTAINED IN THE SPECIFICATIONS.
5. PERMANENT TRENCH RESURFACING SHALL BE IN ACCORDANCE WITH DETAIL 3 ON SHEET CD-4.
6. WATER SERVICES SHALL BE INSTALLED BY TRENCH INSTALLATION OR BORED INTO PLACE AS DETERMINED BY THE CONTRACTOR.
7. WATER METERS SHALL BE BADGER COUNTY FURNISHED.
8. NEW WATER FACILITIES SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
9. AFTER THE WATER SYSTEM HAS BEEN TESTED AND ACCEPTED, CONNECTIONS TO THE WATER SERVICES AT THE METER WILL BE COMPLETED.
10. PLACE FIRE HYDRANT MINIMUM 5' CLEAR OF DRIVE APPROACHES AND OBSTRUCTIONS IN AREAS PROTECTED FROM SNOW PLOWING MACHINES AS DIRECTED BY ENGINEER.
11. ALL BURIED WATER MAIN SHALL BE OF THE TYPE AND CLASS SPECIFIED ON THE PLANS. ALL BURIED DUCTILE IRON PIPE SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT.
12. ALL ABOVE GROUND PIPE 4" OR LARGER IN DIAMETER SHALL BE DUCTILE IRON PIPE WITH FLANGED CONNECTIONS PER THE SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
13. AT LOCATIONS WHERE NEW WATER MAIN CONFLICTS WITH EXISTING WATER MAIN, EXISTING ASBESTOS CONCRETE WATER MAINS SHALL BE REMOVED AND DISPOSED OF AS NOTED ON THE PLANS AND PER ALL APPLICABLE REQUIREMENTS.
14. ANY EXISTING WATER SERVICES THAT CONFLICT WITH THE NEW PIPELINE ALIGNMENT SHALL BE REMOVED AND TEMPORARILY REPLACED.
15. ANY EXISTING SEWER SERVICES CONFLICTING WITH NEW WATER LINE SHALL BE RELAID PER DETAIL 6 ON SHEET CD-2.

UTILITY POLE SPECIAL NOTES

1. POLES SHALL BE SUPPORTED AT ALL TIMES WHERE OUTSIDE EDGE OF TRENCH IS WITHIN 5' OF OUTSIDE EDGE OF POLE UNTIL SUCH TIME THAT TRENCH IS BACKFILLED AND COMPACTED. THE CONTRACTOR SHALL SUPPORT EXISTING POLES IN A MANNER APPROVED IN ADVANCE BY UTILITY COMPANY.
2. THE CONTRACTOR SHALL NOTIFY UTILITY IN ADVANCE OF STARTING CONSTRUCTION ACTIVITIES REQUIRING POLE HOLDING AND OBTAIN A POLE HOLDING PERMIT.

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THESE PLANS, PROJECT SPECIFICATIONS, AND ALL OTHER STANDARDS REFERENCED.
2. THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING FACILITIES PRIOR TO COMMENCING WORK. CALL UNDERGROUND SERVICE ALERT (USA) AT 8-1-1. CONTRACTOR SHALL MAKE ENGINEER AWARE OF ANY DISCREPANCIES.
3. THE CONTRACTOR SHALL REPLACE ANY DISTURBED WARNING MARKERS, SIGNS, STRIPING, CROSS BARS AND STOP BARS AS NECESSARY AND AS DIRECTED BY THE COUNTY.
4. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE HEALTH AND SAFETY LAWS OF THE STATE OF CALIFORNIA AND CAL/OSHA STANDARDS.
5. ALL EXCESS MATERIAL AND/OR DEBRIS SHALL BE REMOVED UPON PROJECT COMPLETION.
6. A PRE-CONSTRUCTION MEETING BETWEEN ALL PARTIES INVOLVED IN THE CONSTRUCTION AND INSPECTION OF IMPROVEMENTS SHALL BE ARRANGED BY THE OWNER.
7. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS INCLUDING BUT NOT LIMITED TO: FENCES, GATES, MAILBOXES, CONCRETE, AND LANDSCAPING. ANY EXISTING IMPROVEMENTS DAMAGED SHALL BE REPLACED "IN KIND" AND RESTORED TO THEIR ORIGINAL CONDITION.


EXISTING UTILITY NOTES

1. THE CONTRACTOR SHALL POTHOLE ALL EXISTING FACILITIES IDENTIFIED PRIOR TO THE START OF CONSTRUCTION AS FIRST ORDER OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION TO ALLOW ADVANCE DECISIONS TO BE MADE ON NECESSARY RELOCATIONS OR GRADE CHANGES TO PROPOSED FACILITIES. THE COUNTY RESIDENT ENGINEER SHALL APPROVE FIELD CHANGES THAT INCLUDE ANY RELOCATIONS AND GRADE CHANGES ASSOCIATED WITH EXISTING FACILITY CONFLICTS.
2. POTHOLING SHALL EXPOSE THOSE FACILITIES THAT MAY AFFECT THE LOCATION OR DEPTH OF THE WATER MAIN OR THOSE UTILITIES AS SPECIFICALLY NOTED HEREIN.
3. THE EXISTING WATER DISTRIBUTION SYSTEMS AND SEWER COLLECTION SYSTEMS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS BASED ON INFORMATION AVAILABLE. THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY'S REPRESENTATIVE TO IDENTIFY LOCATION OF EXISTING WATER AND SEWER FACILITIES IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE FOR POTHOLING AND PHYSICALLY VERIFYING THE ALIGNMENT AND DEPTH OF THE PROPOSED WATER LINE WILL NOT BE IN CONFLICT WITH ANY UTILITIES AND A MINIMUM SEPARATION WITH SEWER MAINS ARE MAINTAINED.
4. THE DEPTH OF SEWER MAINS SHOWN ARE APPROXIMATE BASED ON FIELD MEASUREMENTS AND FLOW LINES ARE SHOWN ON THE PLANS FOR REFERENCE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTH ALIGNMENT (ESPECIALLY ALONG THE CURVED AREAS OF THE ROADS) OF EXISTING SEWER MAINS AT WATER MAIN CROSSINGS.
5. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SEWER SERVICES AND VERIFY ADEQUATE SEPARATION FROM NEW WATER SERVICES (SEE CONSTRUCTION NOTES ON THIS SHEET).

	DATE	RECORD DRAWING	
DESIGNED: KCS	10/16/24	RESIDENT ENGINEER	DATE
DRAWN: KCS	10/16/24		
CHECKED: SA	10/16/24		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE


 SUPERVISING ENGINEER
 DATE 4/4/2024

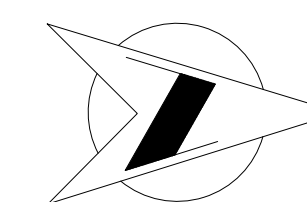
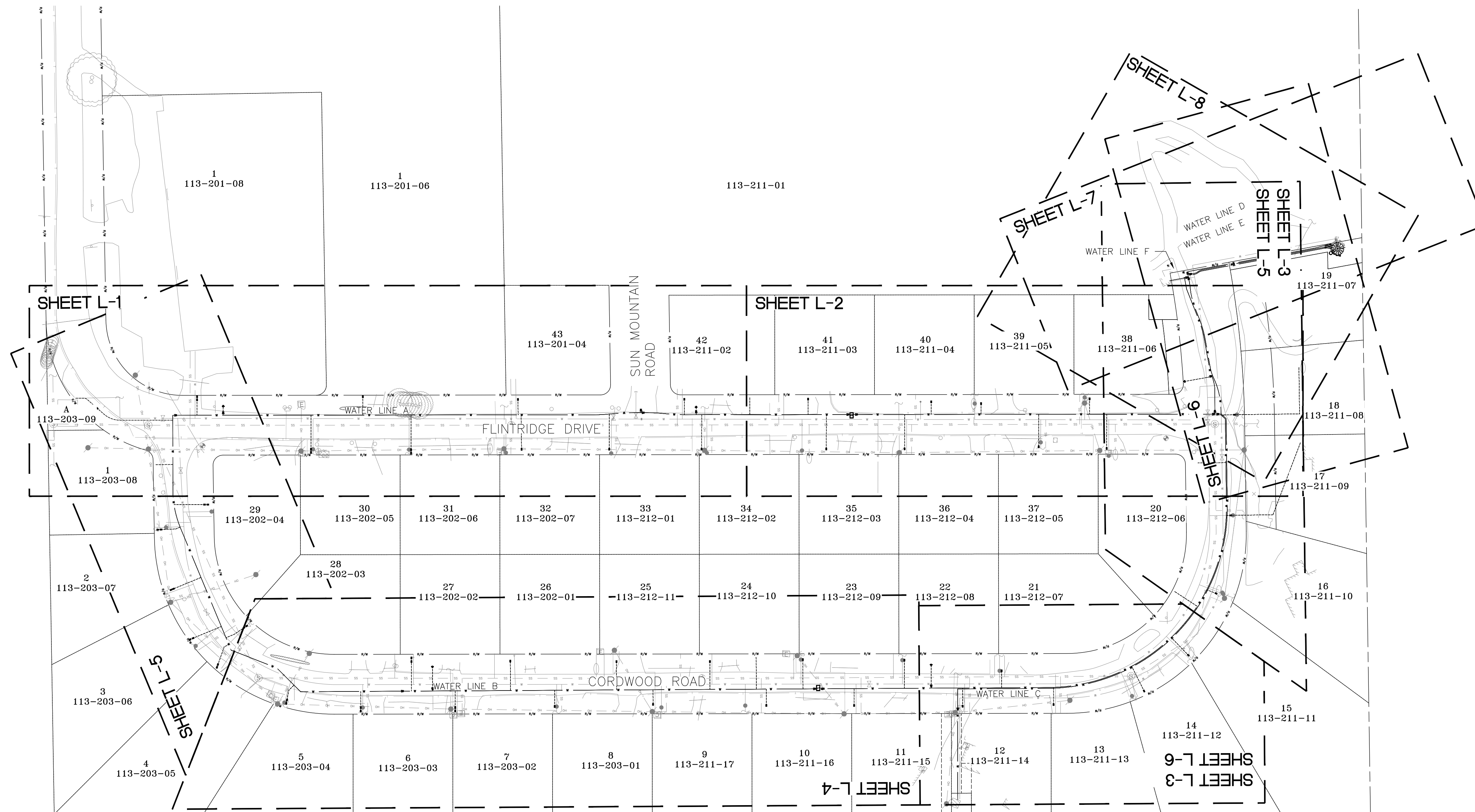


PROJECT	
CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT	
ROAD NO. -	BRIDGE NO.



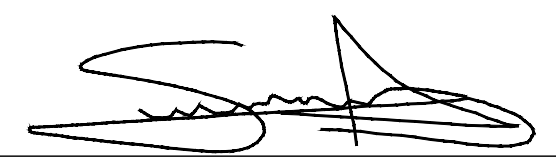
DEPARTMENT OF PUBLIC WORKS AND PLANNING		
GENERAL NOTES		
GN-1		
DRAWING NO. 11334	SHEET NO. 03	TOTAL 23

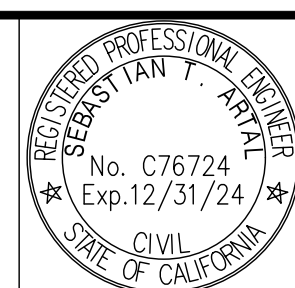
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	DATE	RECORD DRAWING	
DESIGNED: KCS	10/16/24	RESIDENT ENGINEER	DATE
DRAWN: KCS	10/16/24		
CHECKED: SA	10/16/24		

SCALE
<p>GRAPHIC SCALE: 1"=60'</p>


 SUPERVISING ENGINEER
 DATE 4/4/2024



PROJECT
CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT
 ROAD NO. - BRIDGE NO.

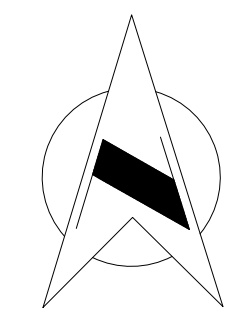
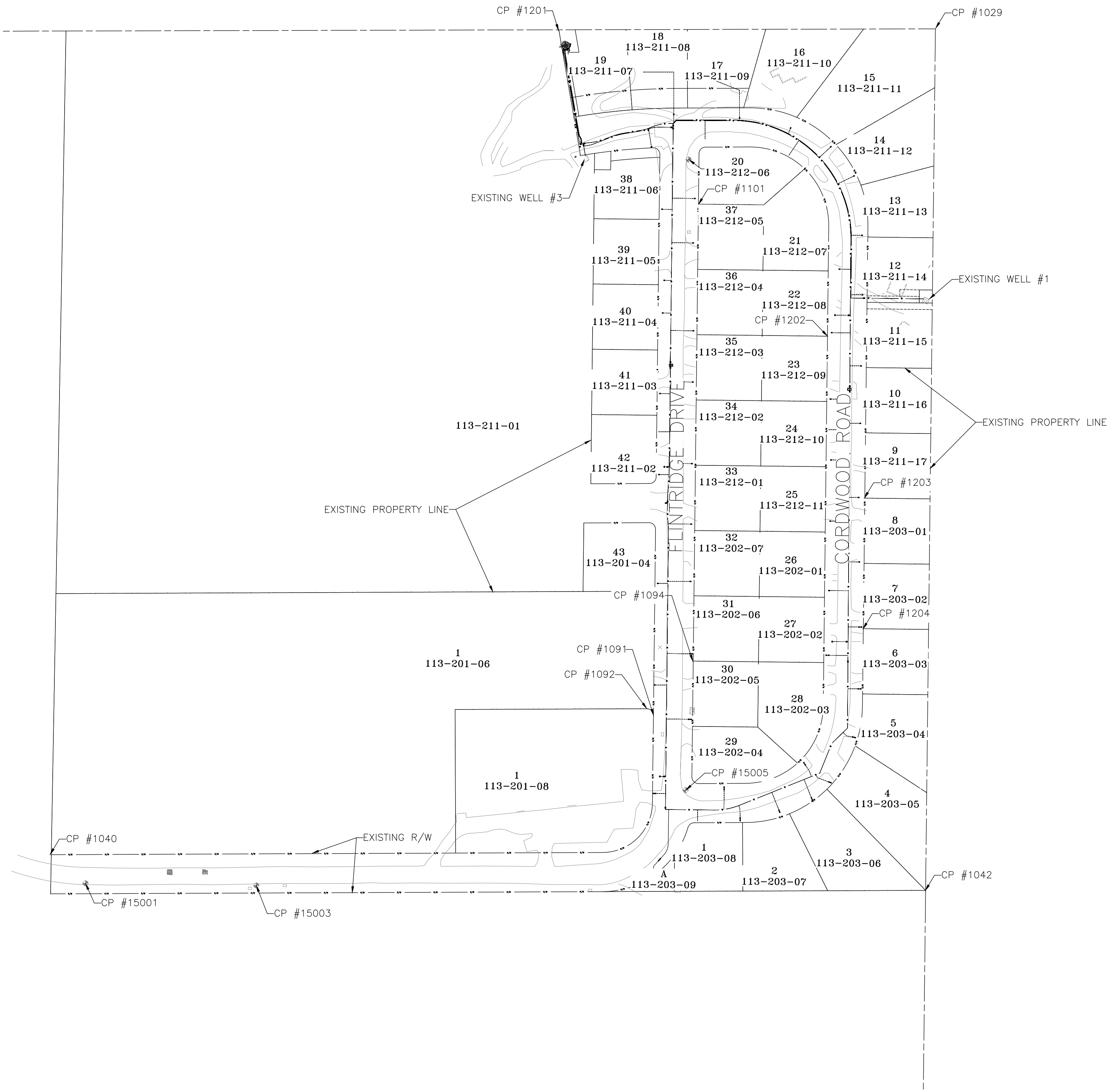


DEPARTMENT OF PUBLIC WORKS AND PLANNING
INDEX SHEET
 IS-1
 DRAWING NO. 11334 SHEET NO. 04 TOTAL 23

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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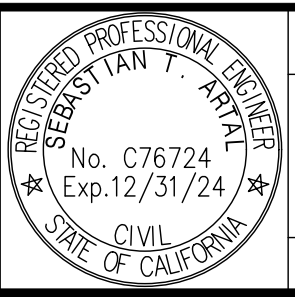
SURVEY CONTROL POINT				
POINT NUMBER	DESCRIPTION	ELEVATION	NORTHING	EASTING
15001	SET MAG	7208.59	2318578.13	6502287.48
15003	SET RBR	7219.33	2318574.82	6502549.16
15005	SET RBR	7233.27	2318720.82	6503206.88
15008	SET RBR	7358.87	2319686.68	6503211.45
1040	FD 3/4" IP	7207.85	2318621.69	6502233.86
1042	FD 1" IP UP 0.4' LEANING	7234.27	2318566.15	6503574.34
1091	FD 3/4" IP	7239.95	2318835.32	6503157.61
1092	FD 3/4" UP	7241.02	2318845.52	6503147.61
1094	FD 3/4" IP W/GAS CAP; UP 0.5'	7249.76	2318918.58	6503218.52
1204	FD 3/4" IP FLUSH;LS 2931	7263.72	2318968.02	6503478.86
1203	FD 3/4" IP UP 1.0';LS 2931	7292.81	2319167.22	6503480.07
1202	FD 3/4" IP UP 0.5';LS 2931	7331.17	2319416.09	6503424.40
1101	FD 1" ROD	7348.80	2319618.18	6503227.43
1029	FD 1" IP UP 1.0'	7390.75	2319886.86	6503589.60
1201	FD 3/4" IP	7441.82	2319883.60	6503012.90



DESIGNED:	DATE	RECORD DRAWING	
KCS	10/16/24	RESIDENT ENGINEER	DATE
KCS	10/16/24		
SA	10/16/24		

SCALE
100 50 0 100
GRAPHIC SCALE: 1"=100'

[Signature]
 SUPERVISING ENGINEER
 DATE 4/4/2024



PROJECT
 CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT
 ROAD NO. - BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING
 HORIZONTAL CONTROL
 HC-1
 DRAWING NO. 11334 SHEET NO. 05 TOTAL 23

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCDWRG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\432360HC002.DWG 10/16/2024 9:15 AM - SINGLETON, RICHARD

WATER LINE A									
NUMBER	STATION	LENGTH	RADIUS	DELTA (Δ)	LINE/CHORD DIRECTION	NORTHING	EASTING	PIPE SIZE	PIPE MATERIAL
L1	10+00.00	421.92'			N0° 39' 08.46"E	2318691.08	6503175.92	6 INCH	HDPE
C1	14+21.92	17.90'	160.00'	6°24'35"	N2° 33' 05.31"W	2319112.98	6503180.72	6 INCH	HDPE
C2	14+39.82	17.90'	160.00'	6°24'34"	N2° 33' 05.40"W	2319130.85	6503179.92	6 INCH	HDPE
L2	14+57.72	18.77'			N0° 38' 52.71"E	2319148.72	6503179.13	6 INCH	HDPE
C3	14+76.49	17.91'	160.00'	6°24'43"	N3° 51' 14.16"E	2319167.49	6503179.34	6 INCH	HDPE
C4	14+94.40	17.89'	160.00'	6°24'24"	N3° 51' 23.68"E	2319185.35	6503180.54	6 INCH	HDPE
L3	15+12.29	538.26'			N0° 39' 07.52"E	2319203.19	6503181.75	6 INCH	HDPE
L4	20+50.55	7.04'			N44° 58' 45.29"E	2319741.41	6503187.87	6 INCH	HDPE

WATER LINE B									
NUMBER	STATION	LENGTH	RADIUS	DELTA (Δ)	LINE/CHORD DIRECTION	NORTHING	EASTING	PIPE SIZE	PIPE MATERIAL
L5	10+00.00	87.07'			N89° 58' 45.29"E	2319746.39	6503192.85	6 INCH	HDPE
C5	10+87.07	284.04'	180.00'	90°24'44"	S44° 48' 52.87"E	2319746.42	6503279.92	6 INCH	HDPE
L6	13+71.11	749.49'			S0° 23' 28.98"W	2319565.19	6503459.98	6 INCH	HDPE
L7	21+20.59	33.50'			S45° 46' 40.95"W	2318815.72	6503454.86	6 INCH	HDPE
L8	21+54.09	49.42'			S22° 10' 26.04"W	2318792.36	6503430.85	6 INCH	HDPE
L9	22+03.51	132.69'			S68° 13' 00.19"W	2318746.60	6503412.20	6 INCH	HDPE
C6	23+36.20	39.17'	100.00'	22°26'24"	S79° 26' 12.05"W	2318697.36	6503288.98	6 INCH	HDPE
L10	23+75.37	74.82'			N89° 20' 36.08"W	2318690.22	6503250.73	6 INCH	HDPE

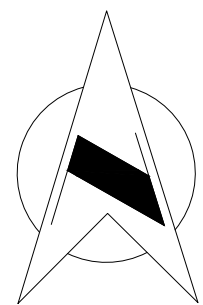
WATER LINE C									
NUMBER	STATION	LENGTH	RADIUS	DELTA (Δ)	LINE/CHORD DIRECTION	NORTHING	EASTING	PIPE SIZE	PIPE MATERIAL
L11	10+00.00	11.03'			N80° 14' 09.00"E	2319710.24	6503044.54	3 INCH	HDPE
C7	10+11.03	6.04'	75.00'	4°36'58"	N82° 32' 37.88"E	2319712.11	6503055.41	2 INCH	HDPE
C8	10+17.07	20.56'	75.00'	15°42'14"	N76° 59' 59.91"E	2319712.89	6503061.40	2 INCH	HDPE
L12	10+37.62	12.52'			N69° 08' 53.06"E	2319717.50	6503081.36	2 INCH	HDPE
C9	10+50.14	20.18'	100.86'	11°27'52"	N74° 52' 49.18"E	2319721.96	6503093.06	2 INCH	HDPE
L13	10+70.32	29.14'			N80° 36' 45.30"E	2319727.21	6503112.51	2 INCH	HDPE
C10	10+99.46	10.61'	39.14'	15°31'56"	N72° 50' 47.06"E	2319731.97	6503141.26	2 INCH	HDPE
C11	11+10.07	33.47'	75.00'	25°34'19"	N77° 51' 58.17"E	2319735.09	6503151.37	2 INCH	HDPE
L14	11+43.54	3.44'			S89° 20' 52.47"E	2319742.06	6503183.82	2 INCH	HDPE
L15	11+46.98	7.40'			N44° 58' 45.29"E	2319742.02	6503187.26	2 INCH	HDPE
L16	11+54.38	87.43'			N89° 58' 45.29"E	2319747.26	6503192.49	2 INCH	HDPE
C12	12+41.81	285.41'	180.87'	90°24'44"	S44° 48' 52.87"E	2319747.29	6503279.92	2 INCH	HDPE
L17	15+27.21	90.56'			S0° 23' 28.98"W	2319565.19	6503460.84	2 INCH	HDPE
L18	16+17.77	111.19'			S89° 20' 36.08"E	2319474.63	6503460.23	2 INCH	HDPE

WATER LINE D									
NUMBER	STATION	LENGTH	RADIUS	DELTA (Δ)	LINE/CHORD DIRECTION	NORTHING	EASTING	PIPE SIZE	PIPE MATERIAL
L19	10+00.00	22.82'			N89° 20' 48.00"W	2319736.03	6503187.81	6 INCH	HDPE
C13	10+22.82	15.65'	40.00'	22°25'08"	S79° 26' 39.37"W	2319736.29	6503164.99	6 INCH	HDPE
C14	10+38.47	8.64'	40.00'	12°22'40"	S74° 25' 25.34"W	2319733.44	6503149.70	6 INCH	HDPE
L20	10+47.11	29.14'			S80° 36' 45.30"W	2319731.12	6503141.40	6 INCH	HDPE
C15	10+76.25	20.01'	100.00'	11°27'52"	S74° 52' 49.18"W	2319726.37	6503112.65	6 INCH	HDPE
L21	10+96.26	33.70'			S69° 08' 53.06"W	2319721.16	6503093.36	6 INCH	HDPE
L22	11+29.96	16.90'			S80° 14' 09.00"W	2319709.16	6503061.87	6 INCH	HDPE
L23	11+46.86	132.49'			N9° 46' 07.69"W	2319706.30	6503045.22	6 INCH	HDPE
C16	12+79.34	4.95'	50.00'	5°40'36"	N12° 44' 49.09"W	2319836.86	6503022.74	6 INCH	HDPE
L24	12+84.30	1.10'			N15° 35' 07.07"W	2319841.69	6503021.65	6 INCH	HDPE
C17	12+85.40	5.34'	50.00'	6°07'17"	N12° 31' 28.74"W	2319842.75	6503021.35	6 INCH	HDPE
L25	12+90.74	2.33'			N9° 27' 50.41"W	2319847.97	6503020.19	6 INCH	HDPE

WATER LINE E									
NUMBER	STATION	LENGTH	RADIUS	DELTA (Δ)	LINE/CHORD DIRECTION	NORTHING	EASTING	PIPE SIZE	PIPE MATERIAL
L26	10+00.00	6.00'			N9° 45' 51.00"W	2319710.75	6503047.50	3 INCH	HDPE
C18	10+06.00	4.61'	10.00'	26°25'12"	N22° 58' 26.76"W	2319716.66	6503046.48	3 INCH	HDPE
C19	10+10.61	4.61'	10.00'	26°25'12"	N22° 58' 26.76"W	2319720.87	6503044.70	3 INCH	HDPE
L27	10+15.22	125.48'			N9° 45' 51.00"W	2319725.08	6503042.91	3 INCH	HDPE

WATER LINE F							
NUMBER	STATION	LENGTH	LINE/CHORD DIRECTION	NORTHING	EASTING	PIPE SIZE	PIPE MATERIAL
L28	10+00.00	18.86'	N9° 45' 51.00"W	2319692.61	6503053.31	2 INCH	HDPE

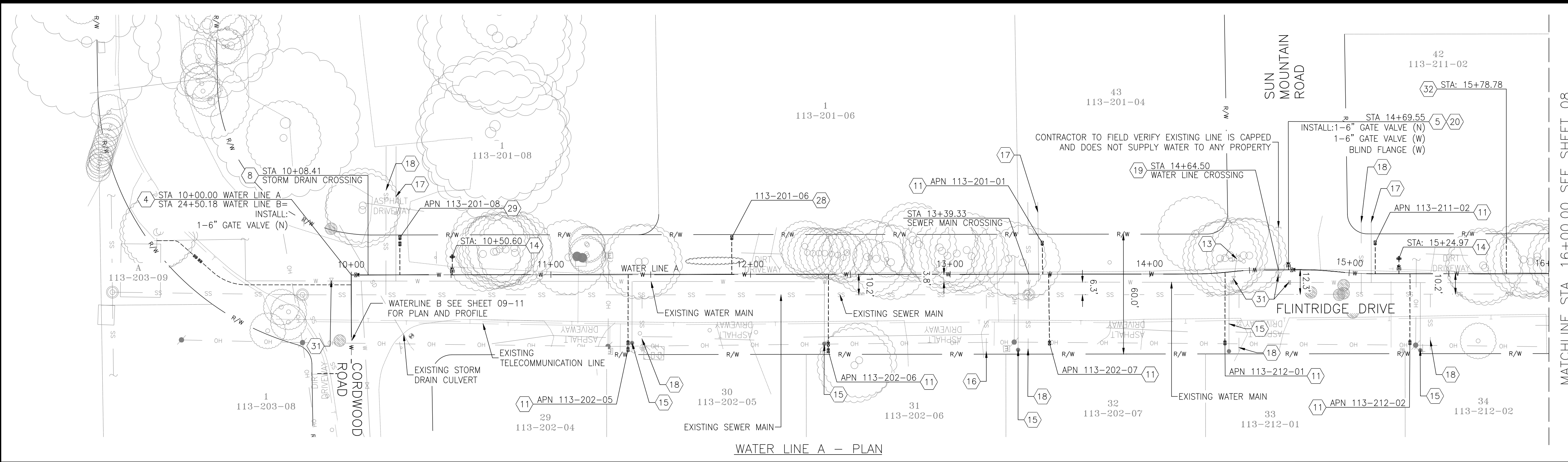
ACCESS ROAD WATER TANK							
NUMBER	STATION	LENGTH	RADIUS	DELTA (Δ)	LINE/CHORD DIRECTION	NORTHING	EASTING
L29	9+82.16	2.38'			N19° 57' 54.05"W	2319663.40	6502908.29
C20	9+84.54	8.38'	10.00'	48°01'08"	N4° 02' 40.01"E	2319665.64	6502907.48
L30	10+00.00	60.20'			N28° 03' 14.06"E	2319680.00	6502911.38
C21	10+60.20	35.94'	100.00'	20°35'40"	N38° 21' 04.15"E	2319733.13	6502939.69
L31	10+96.15	1.97'			N48° 38' 54.24"E	2319761.17	6502961.88
C22	10+98.12	46.02'	100.00'	26°22'11"	N35° 27' 48.83"E	2319762.47	6502963.36
L32	11+44.14	11.58'			N22° 16' 43.42"E	2319799.63	6502989.82
L33	11+55.73	38.95'			N16° 47' 38.08"E	2319810.35	6502994.21



DESIGNED: KCS DRAWN: KCS CHECKED: SA	DATE: 10/16/24	RECORD DRAWING		SCALE: 1"=100'	 SUPERVISING ENGINEER DATE: 4/4/2024	PROJECT CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT			DEPARTMENT OF PUBLIC WORKS AND PLANNING HORIZONTAL CONTROL HC-2	
	DATE: 10/16/24	DATE: 10/16/24	DATE: 10/16/24	GRAPHIC SCALE: 1"=100'		ROAD NO. -	BRIDGE NO.		DRAWING NO. 11334	SHEET NO. 06

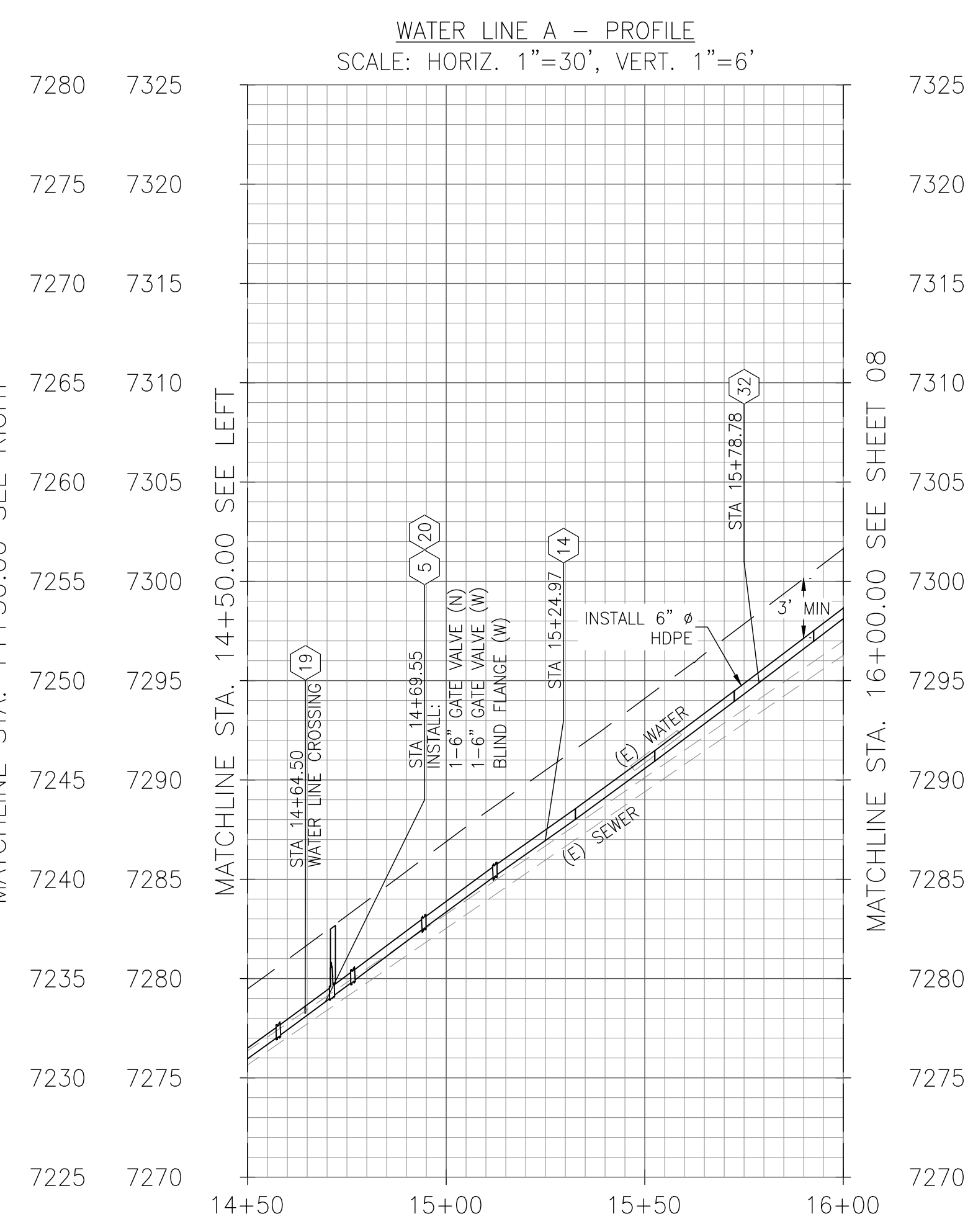
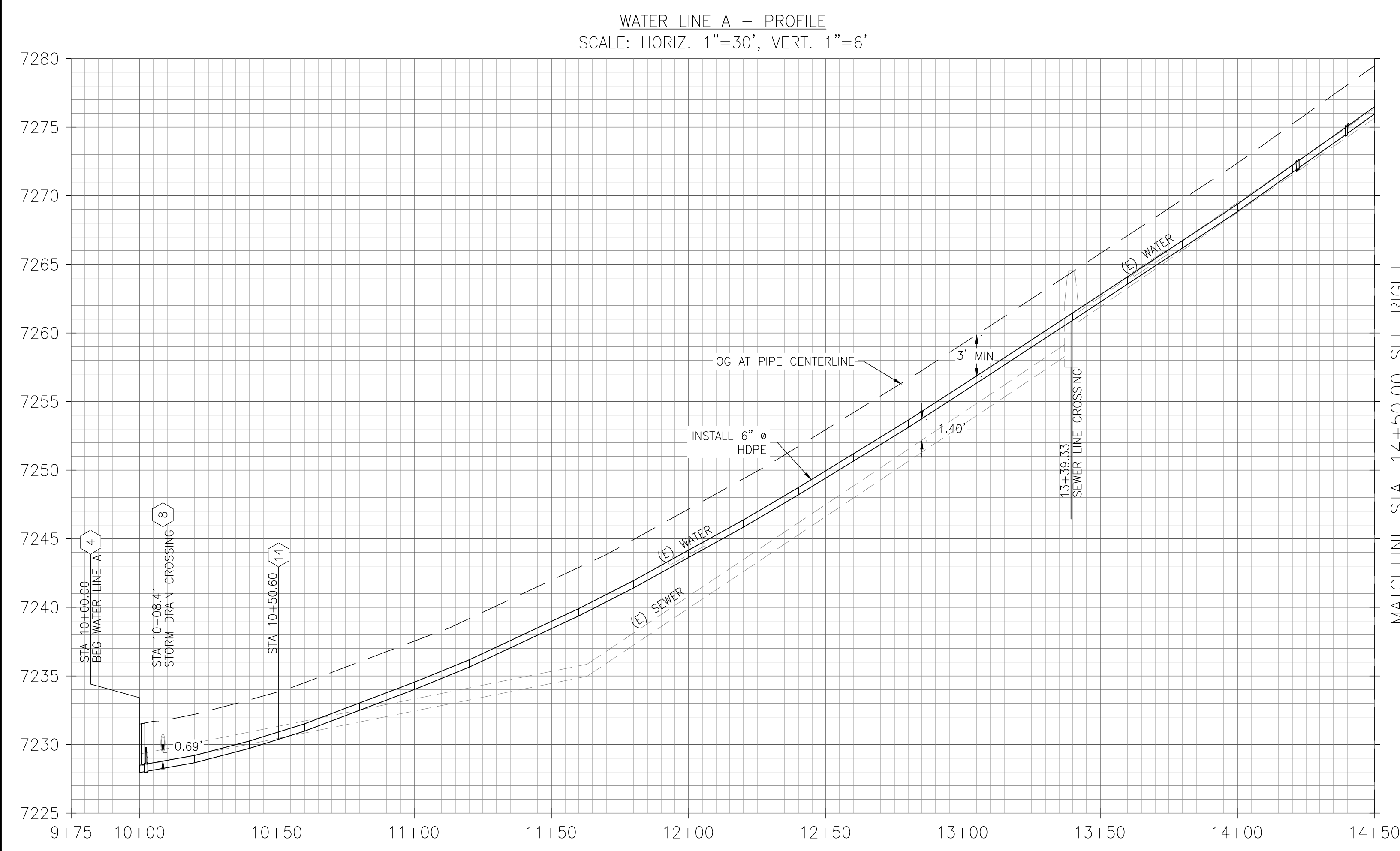
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCD\DRG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\432360\001.DWG 10/16/2024 9:16 AM - SINGLETON, RICHARD



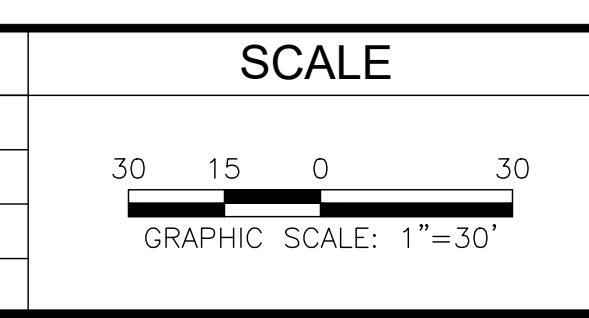
- CONSTRUCTION NOTES**
- CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.
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- REFERENCE:**
- (X) REFERENCE NOTE IN SHEET LG-1

MATCHLINE STA. 16+00.00 SEE SHEET 08



DESIGNED:	DATE:	RECORD DRAWING	
KCS	10/16/24	RESIDENT ENGINEER	DATE
DRAWN:	10/16/24		
CHECKED:	10/16/24		

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SUPERVISING ENGINEER
DATE: 4/4/2024



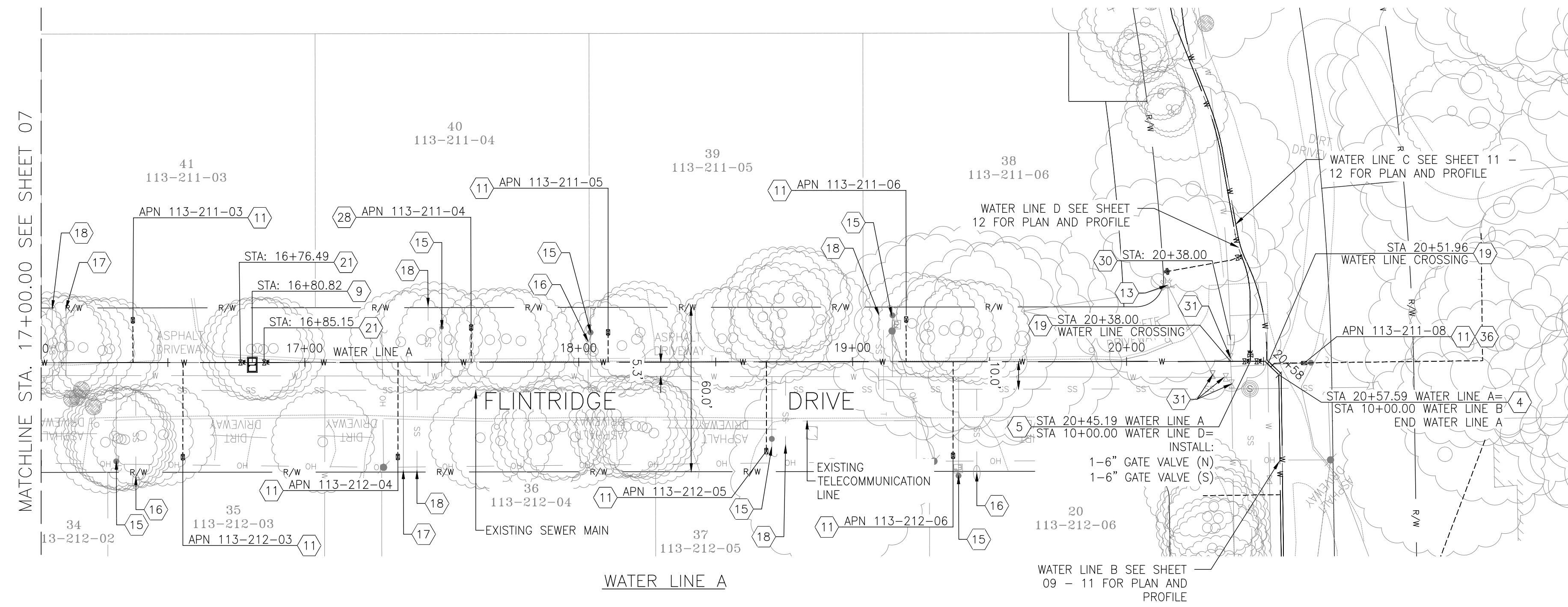
PROJECT
CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT
ROAD NO. - BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING
WATER LINE A
L-1
DRAWING NO. 11334 SHEET NO. 07 TOTAL 23

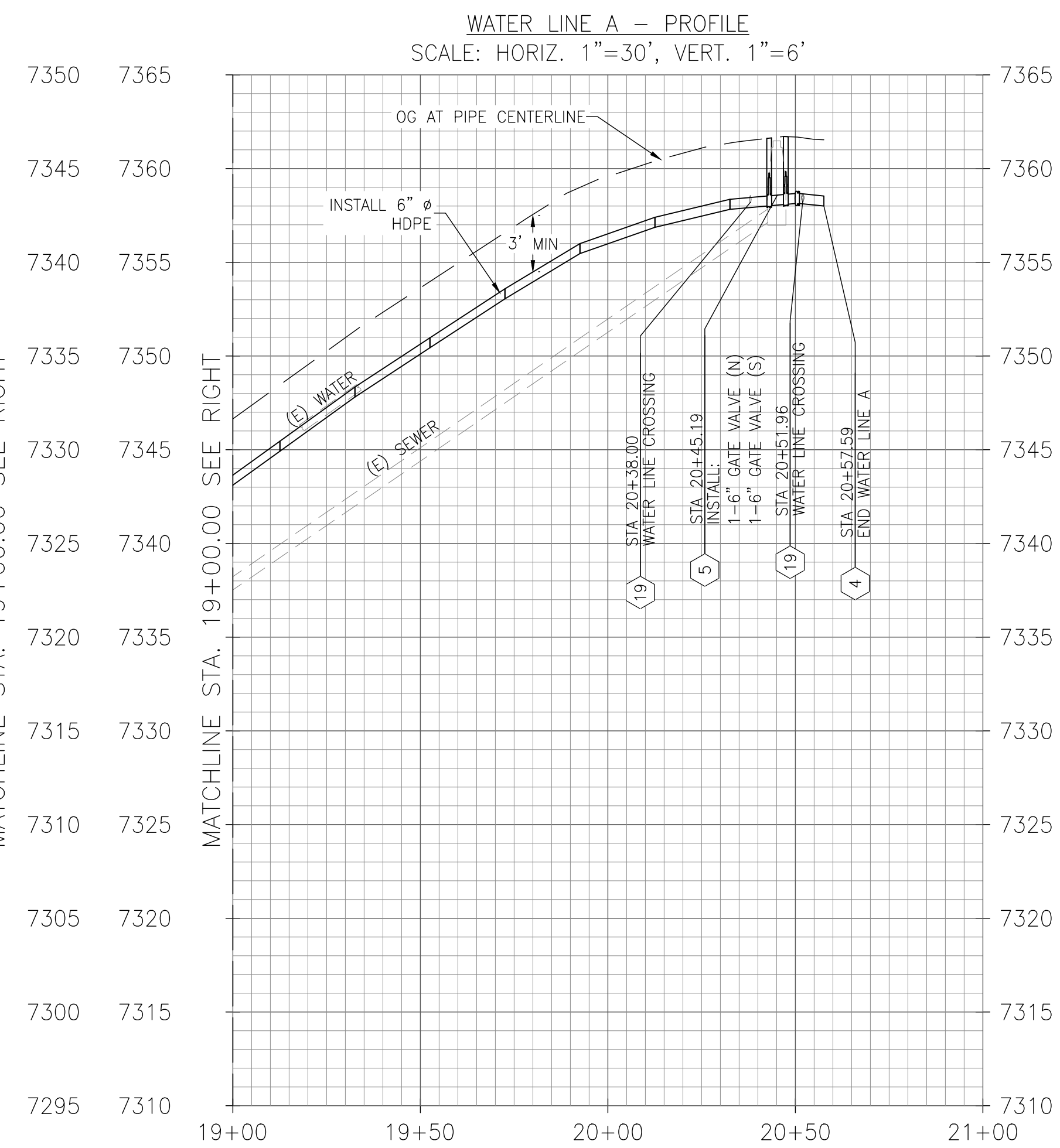
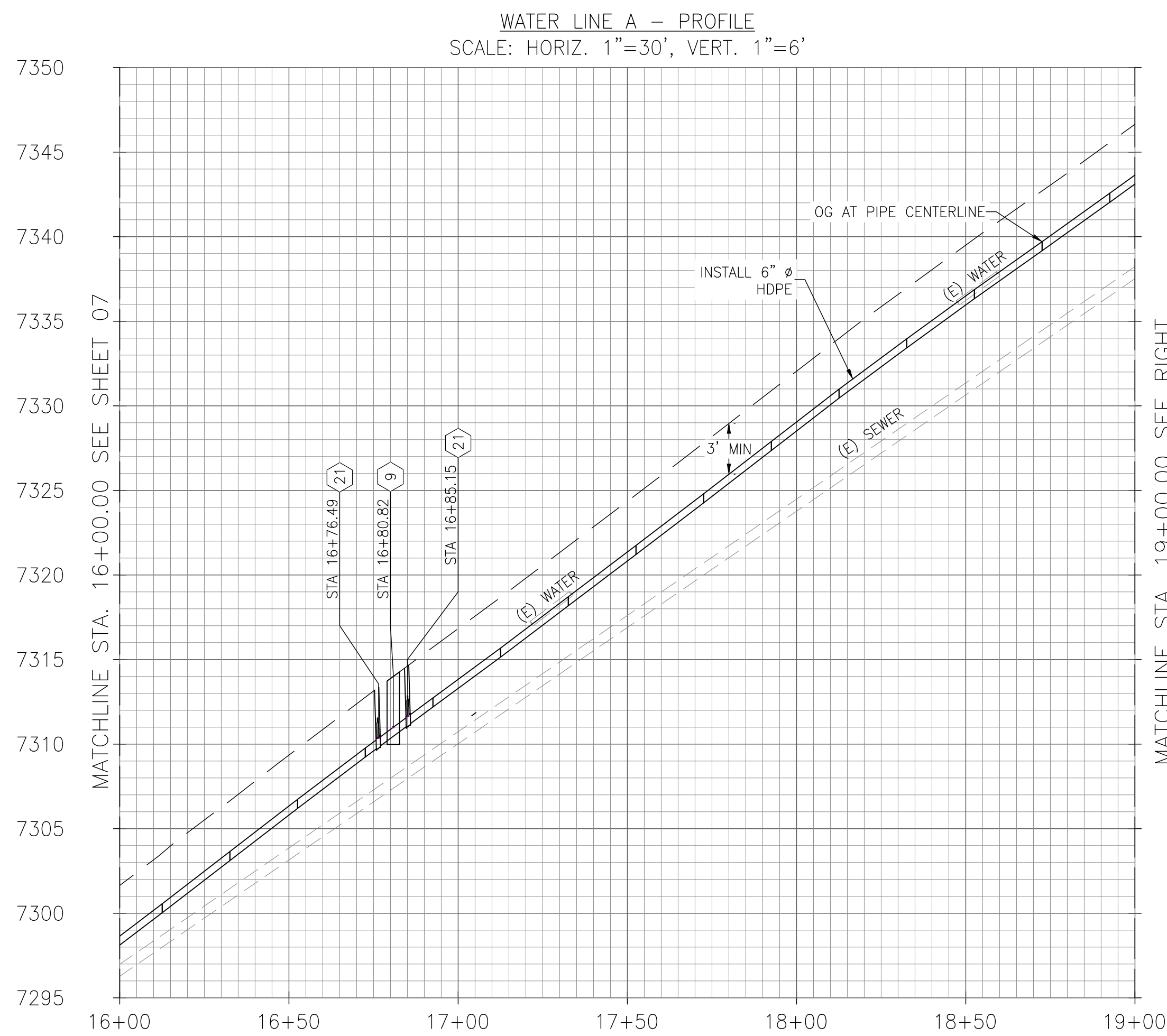


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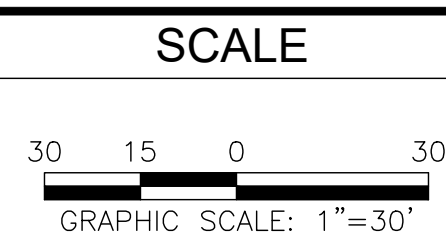


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REFERENCE:
 (X) REFERENCE NOTE IN SHEET LG-1

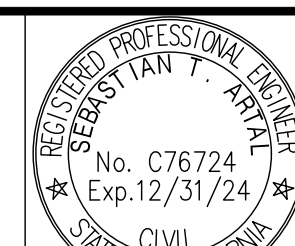


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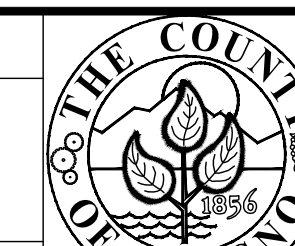
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4/4/2024
 DATE



PROJECT
 CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT

ROAD NO. - BRIDGE NO.



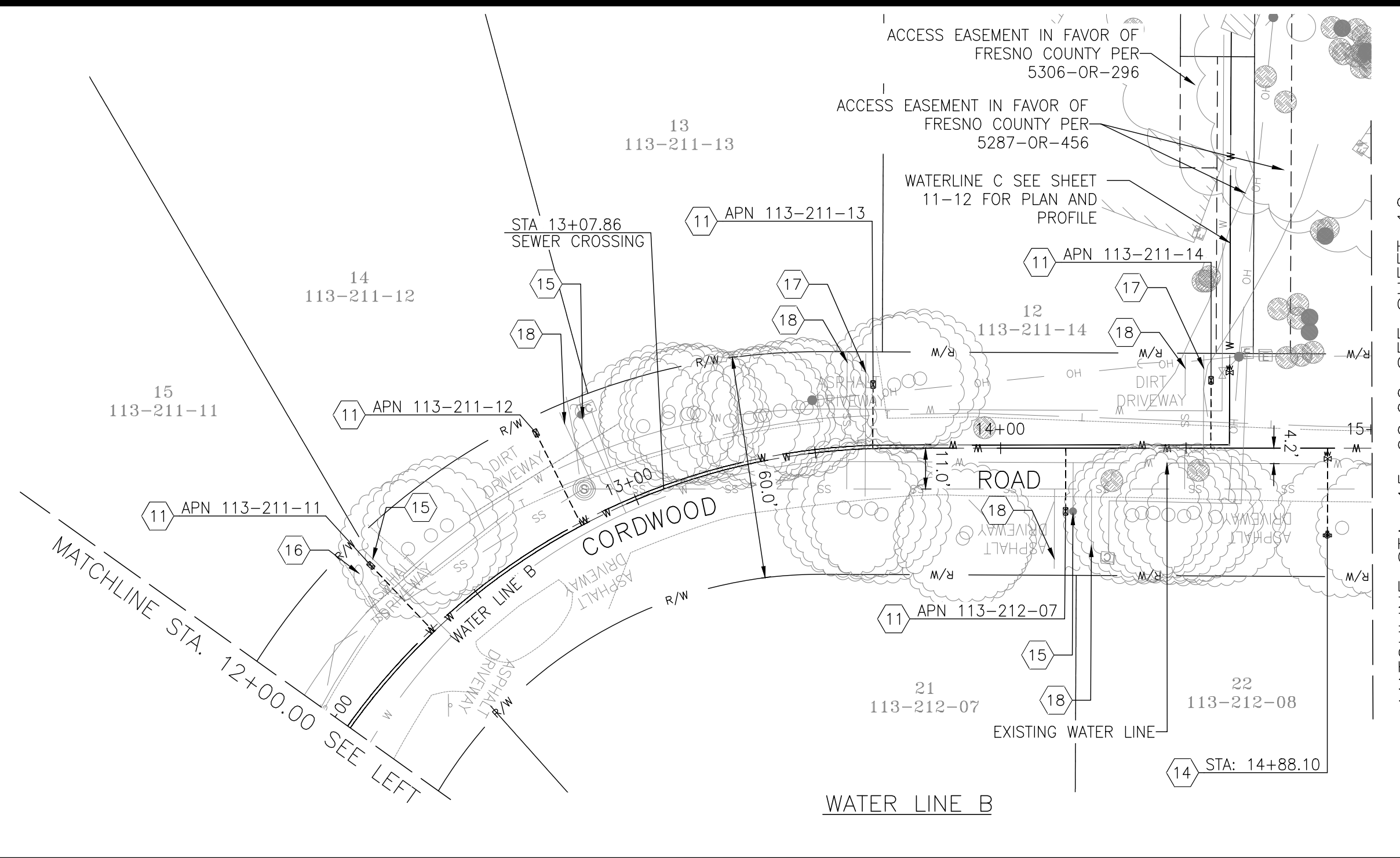
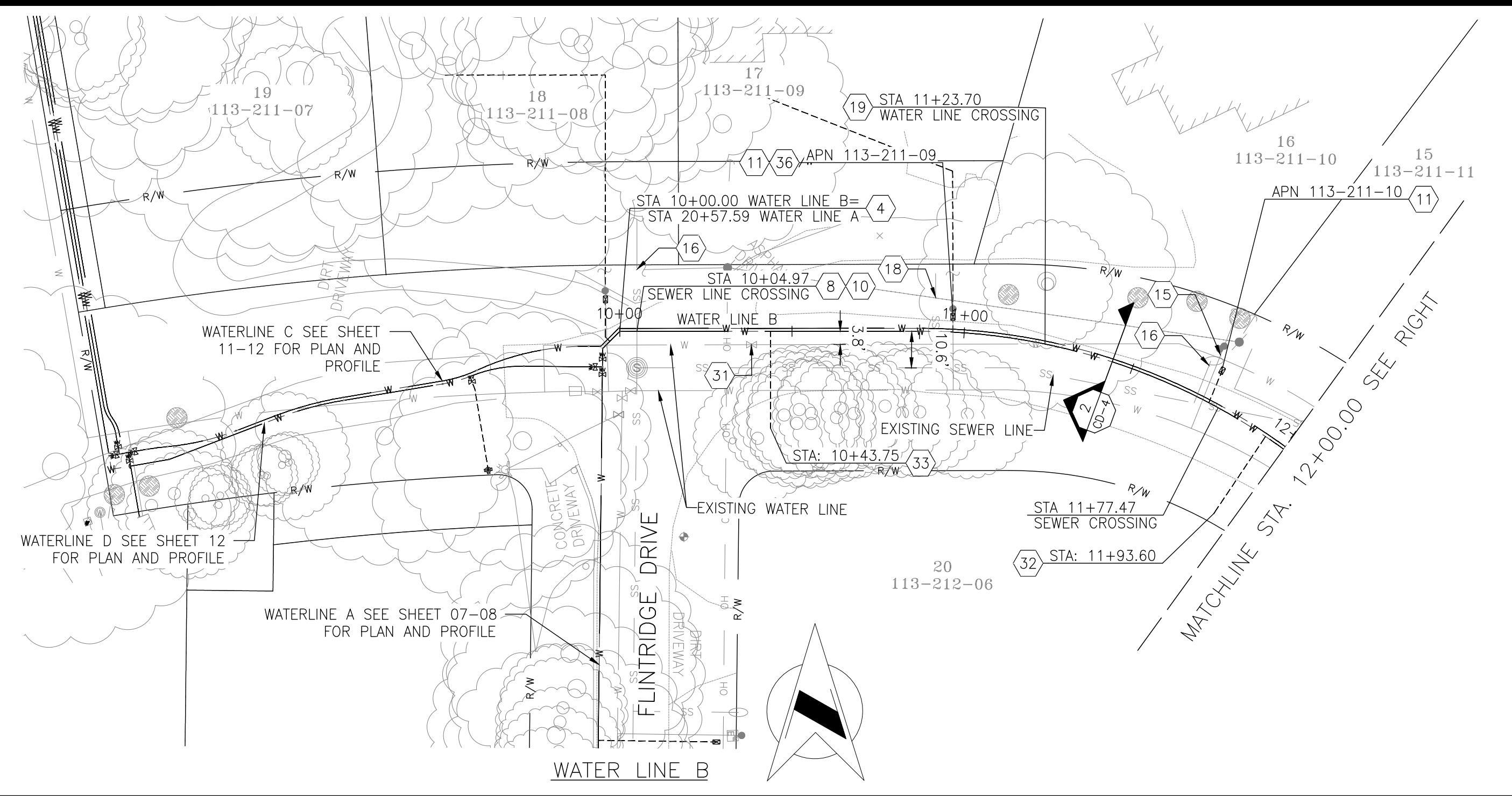
DEPARTMENT OF PUBLIC WORKS AND PLANNING

WATER LINE A
 L-2

DRAWING NO. 11334 SHEET NO. 08 TOTAL 23

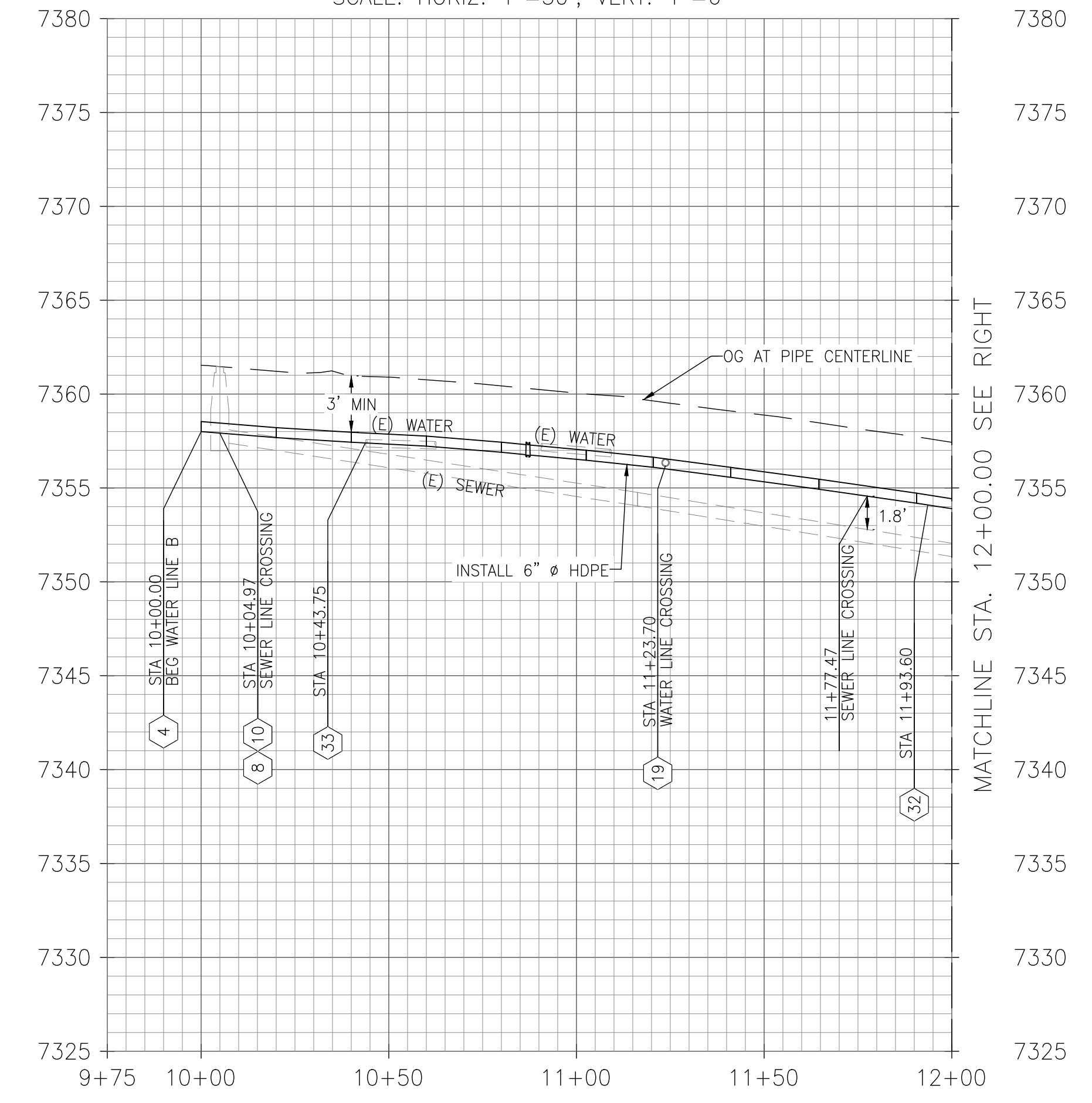
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

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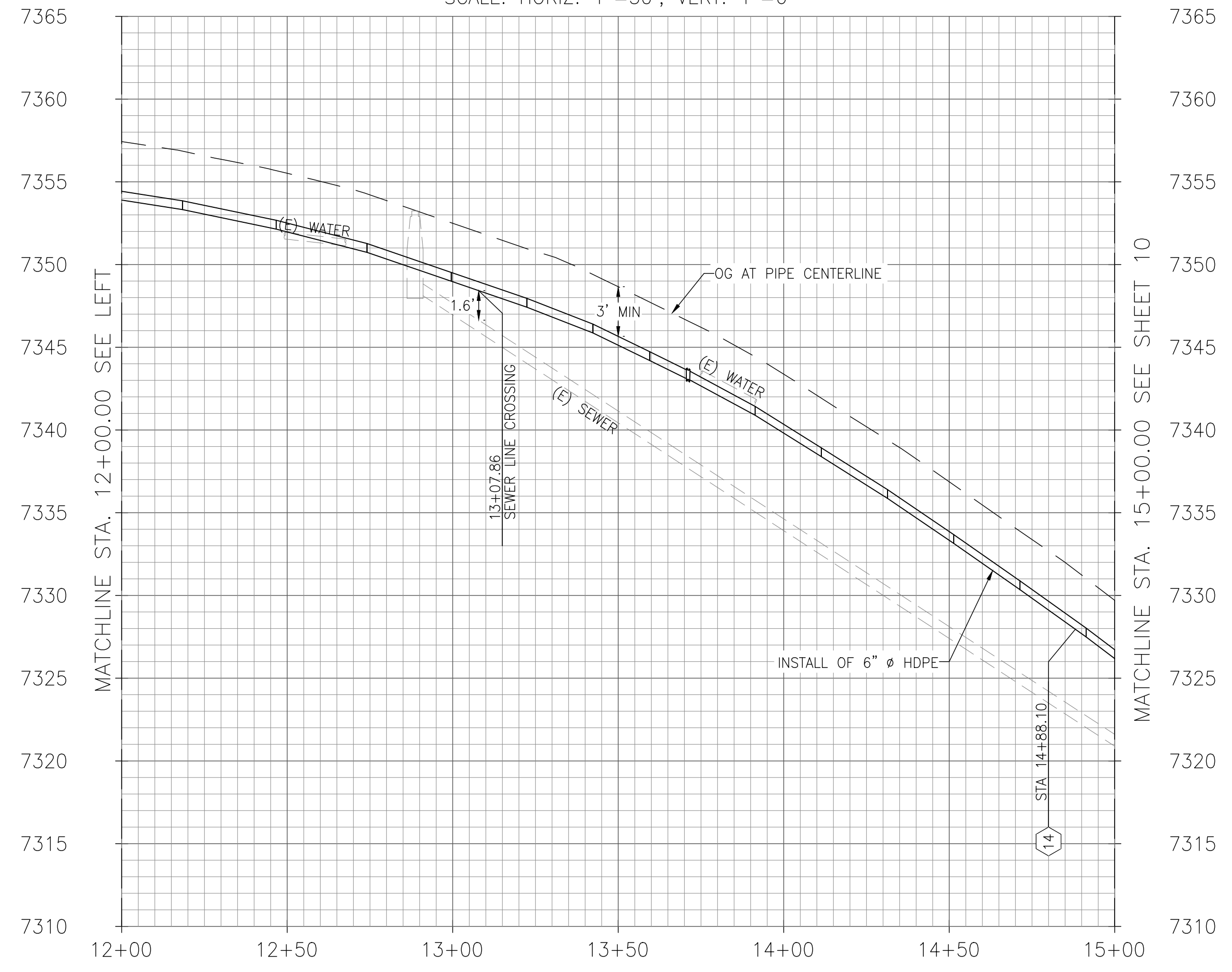


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- REFERENCE:**
- (X) REFERENCE NOTE IN SHEET LG-1

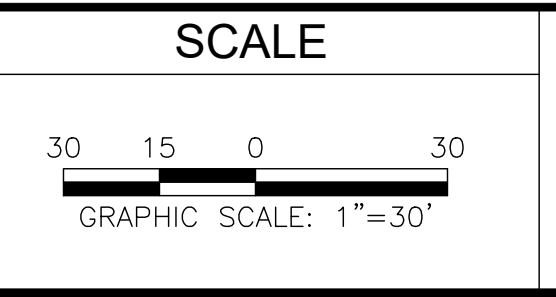
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SCALE: HORIZ. 1"=30', VERT. 1"=6'



WATER LINE B - PROFILE
SCALE: HORIZ. 1"=30', VERT. 1"=6'

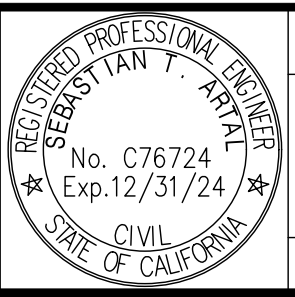


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CHECKED: SA		DATE: 10/16/24		



[Signature]
SUPERVISING ENGINEER

4/4/2024
DATE



PROJECT
CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT

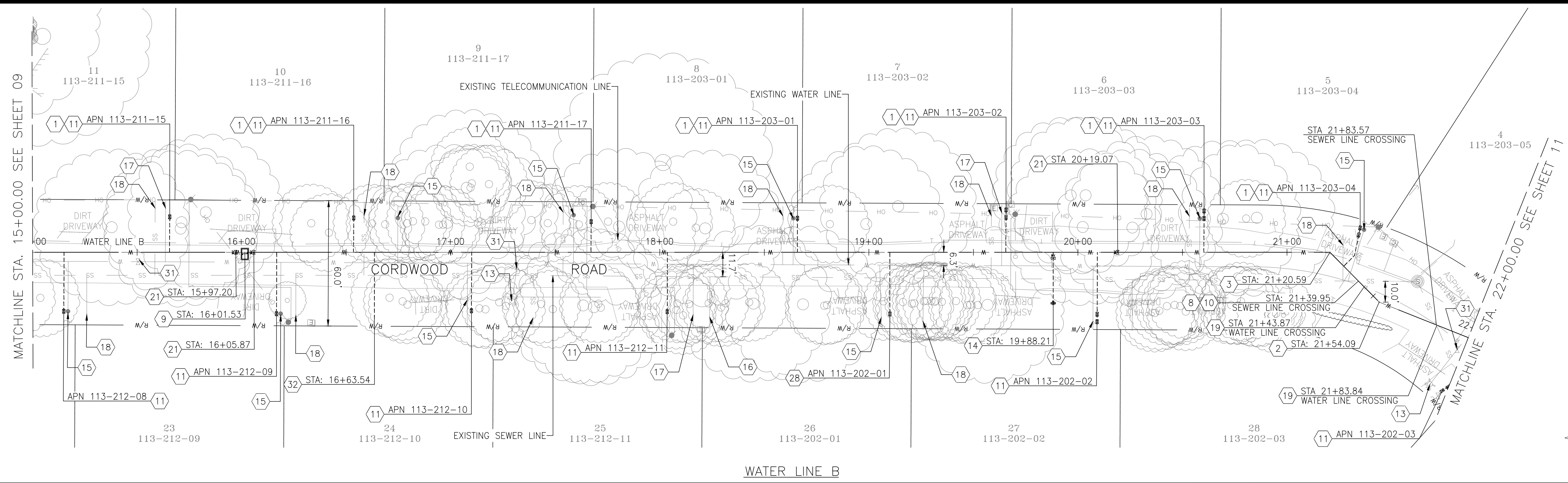
ROAD NO. - BRIDGE NO.



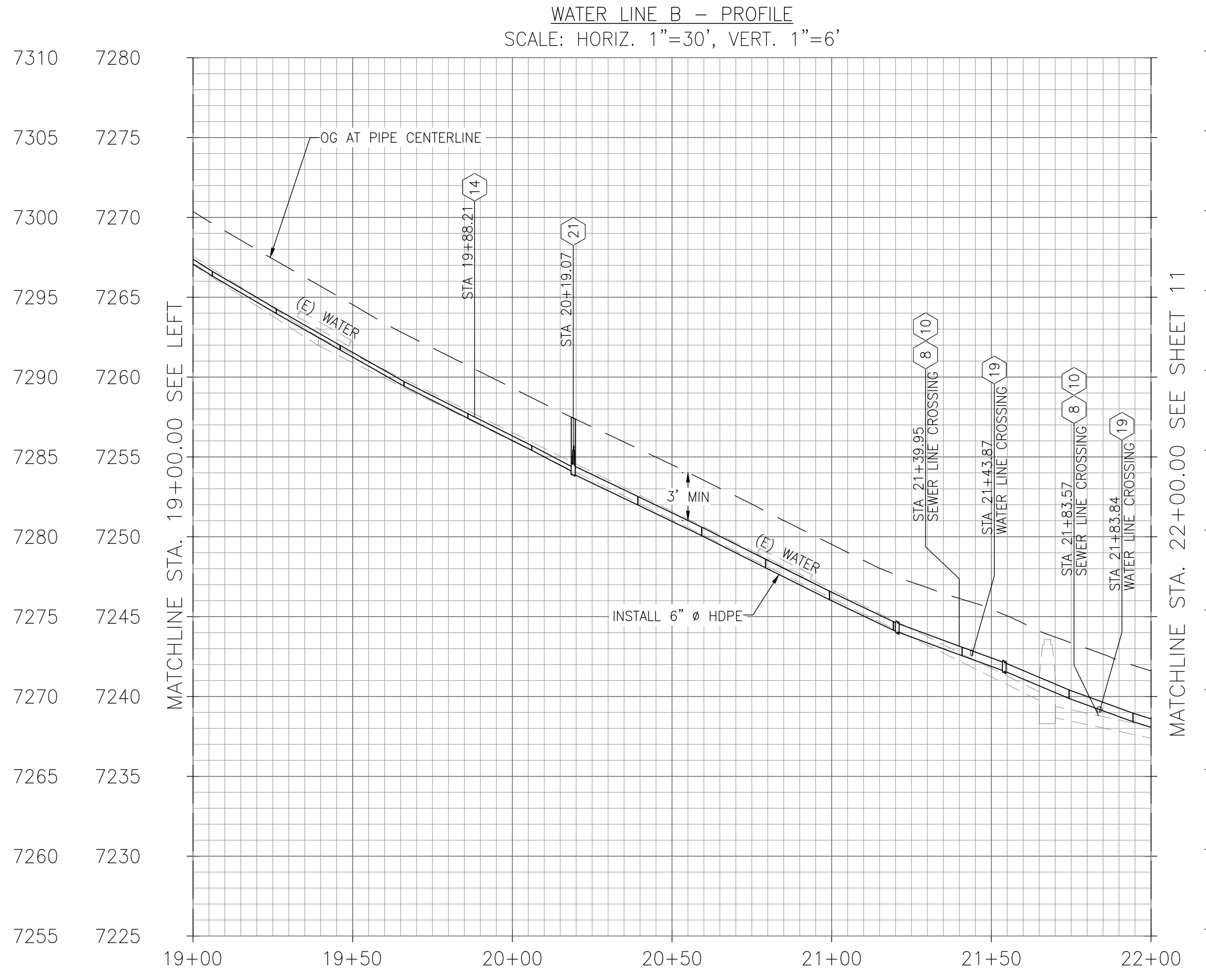
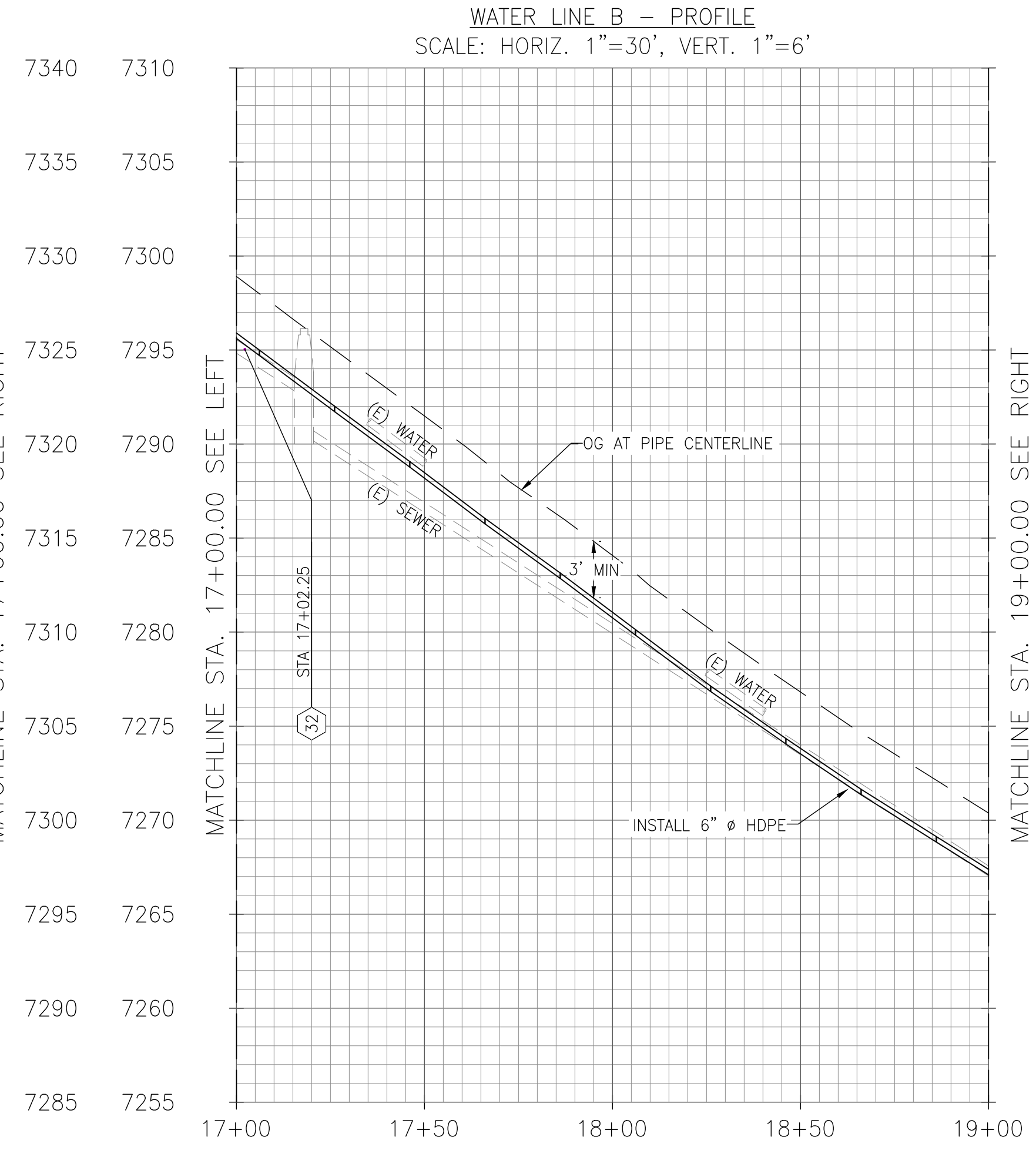
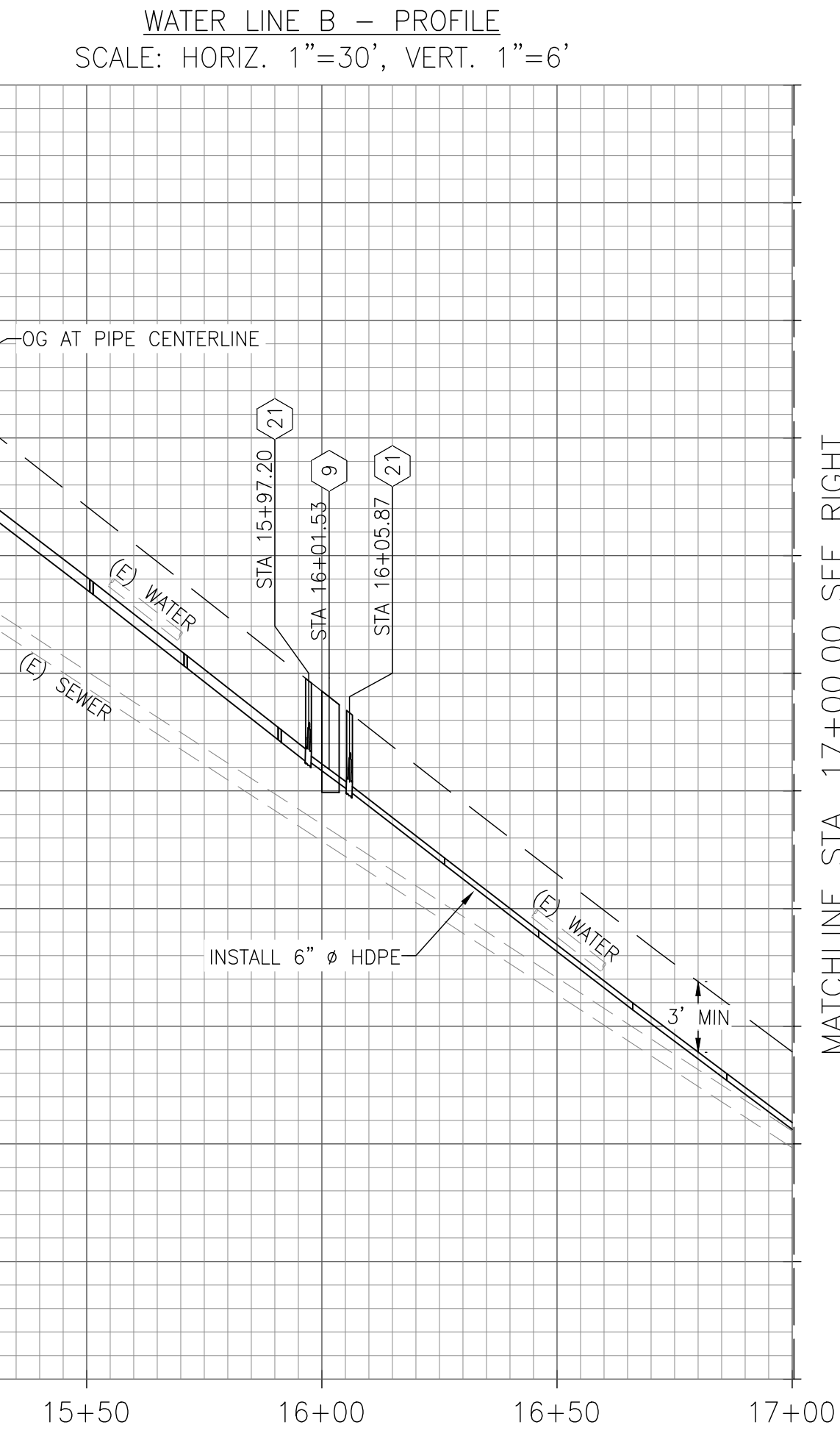
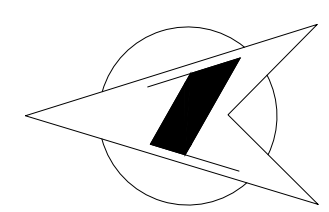
DEPARTMENT OF PUBLIC WORKS AND PLANNING
WATER LINE B
L-3

DRAWING NO. 11334 SHEET NO. 09 TOTAL 23



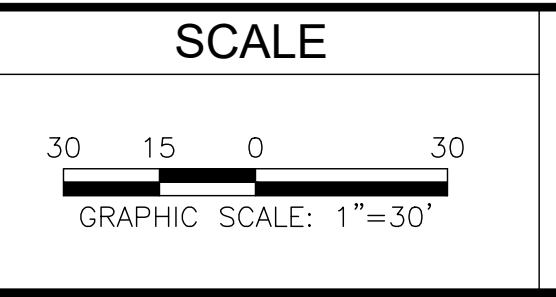


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- REFERENCE:**
- (X) REFERENCE NOTE IN SHEET LG-1



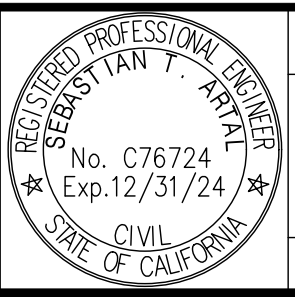
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DESIGNED: KCS	DATE: 10/16/24	RECORD DRAWING	
DRAWN: KCS	DATE: 10/16/24	RESIDENT ENGINEER	DATE
CHECKED: SA	DATE: 10/16/24		



[Signature]
SUPERVISING ENGINEER

4/4/2024
DATE



PROJECT
CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT

ROAD NO. - BRIDGE NO.

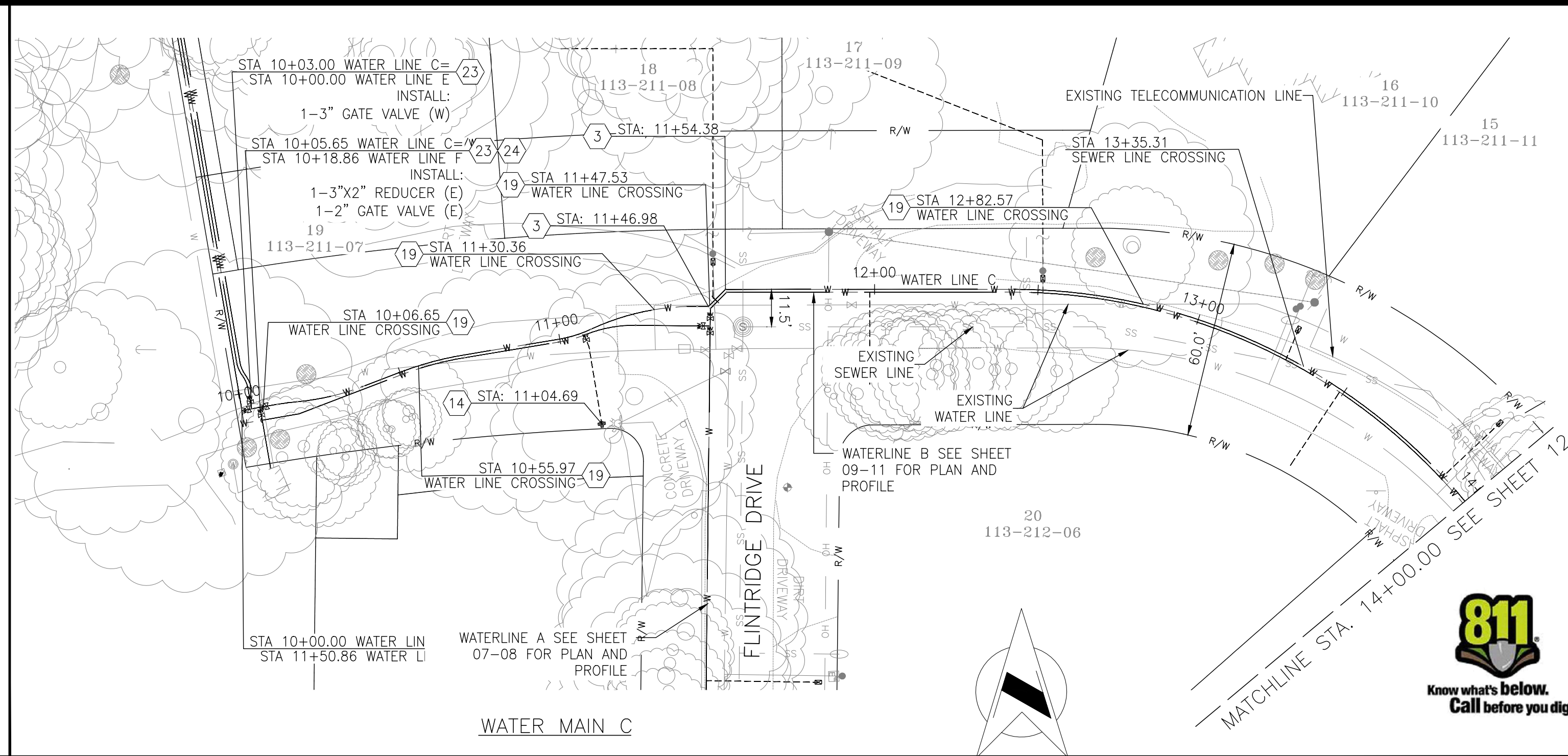
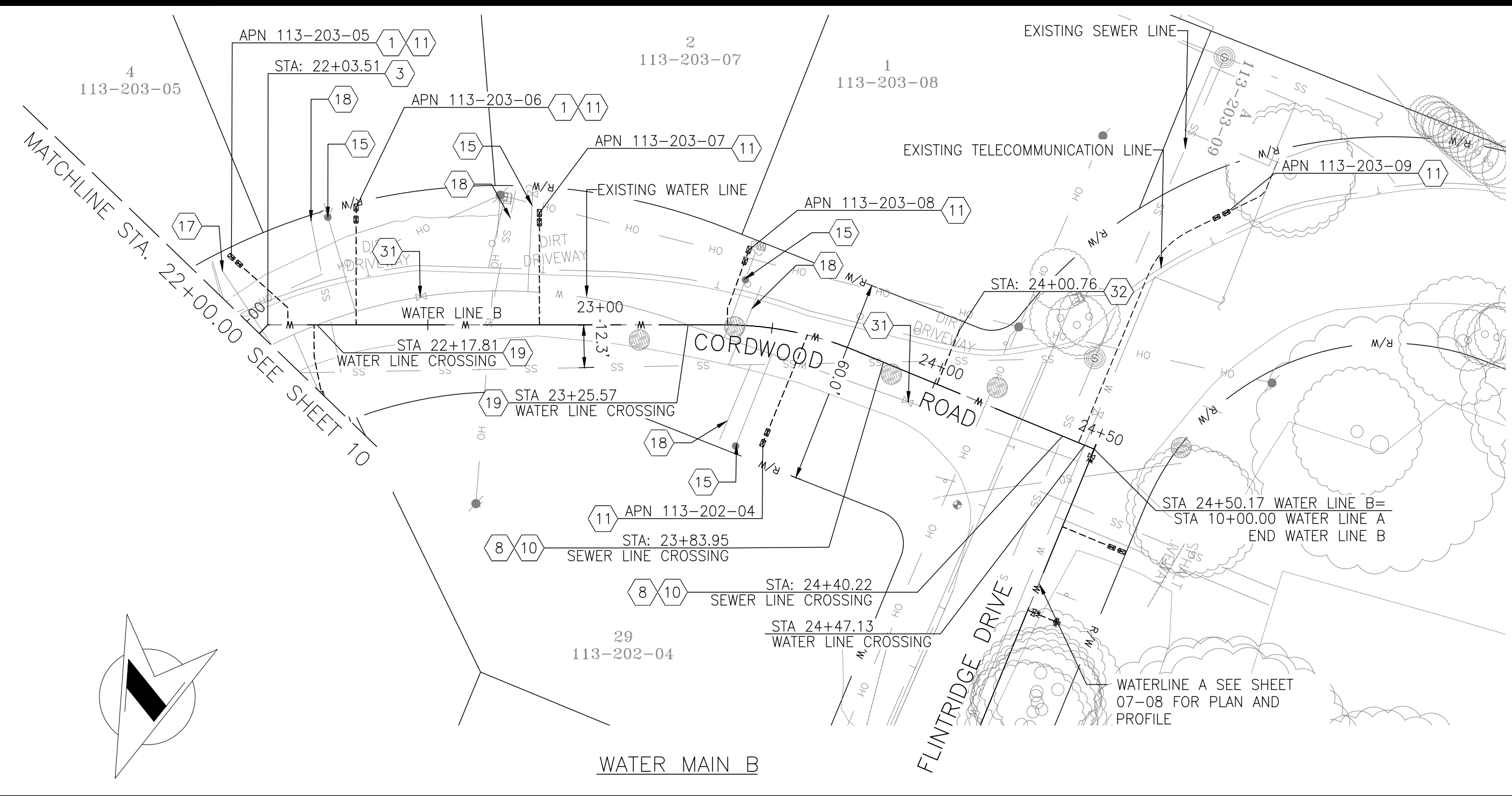


DEPARTMENT OF PUBLIC WORKS AND PLANNING
WATER LINE B
L-4

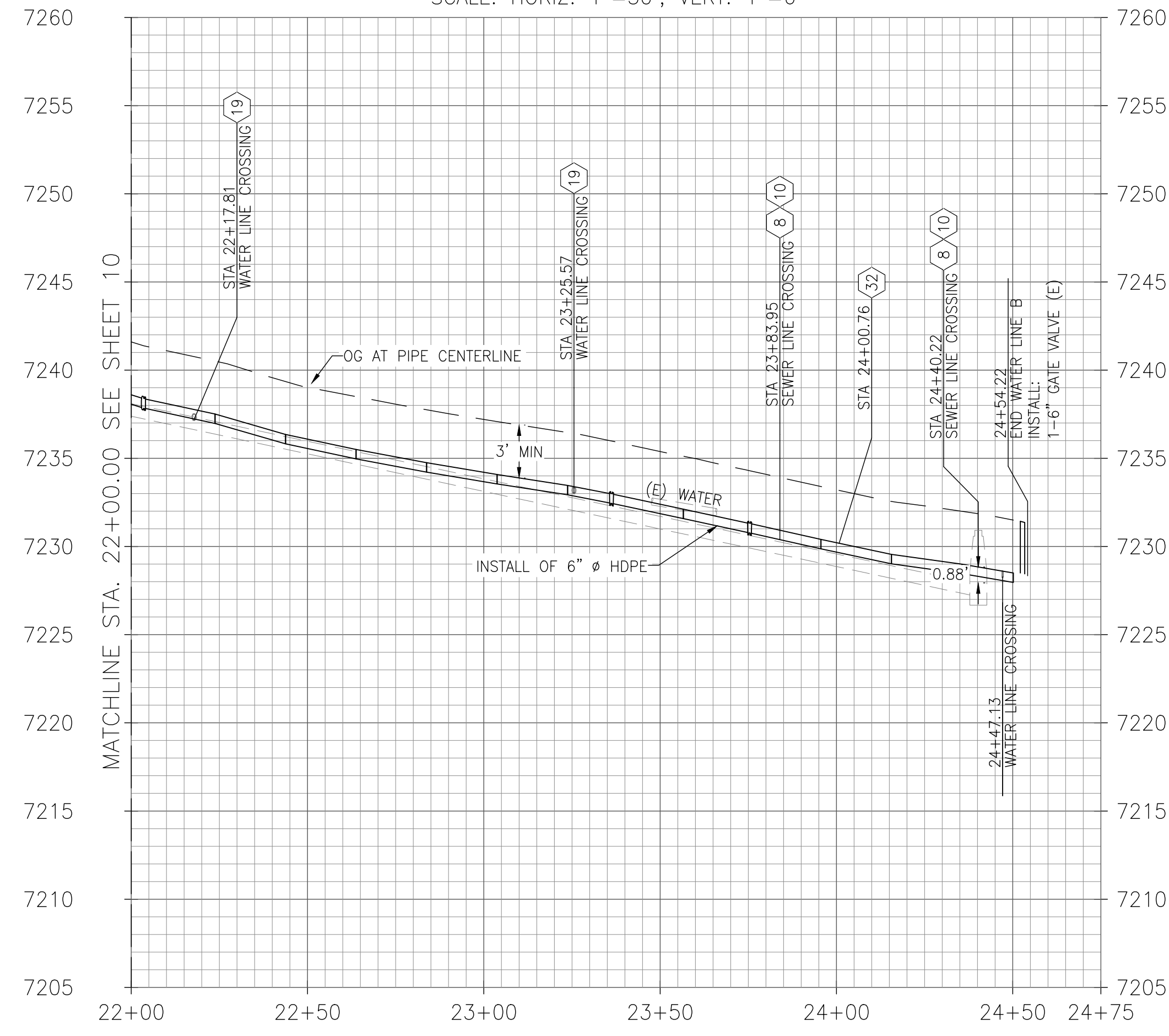
DRAWING NO. 11334 SHEET NO. 10 TOTAL 23

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCIDWRG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\432360L002.DWG 10/16/2024 9:18 AM - SINGLETON, RICHARD



WATER LINE B - PROFILE
SCALE: HORIZ. 1"=30', VERT. 1"=6'

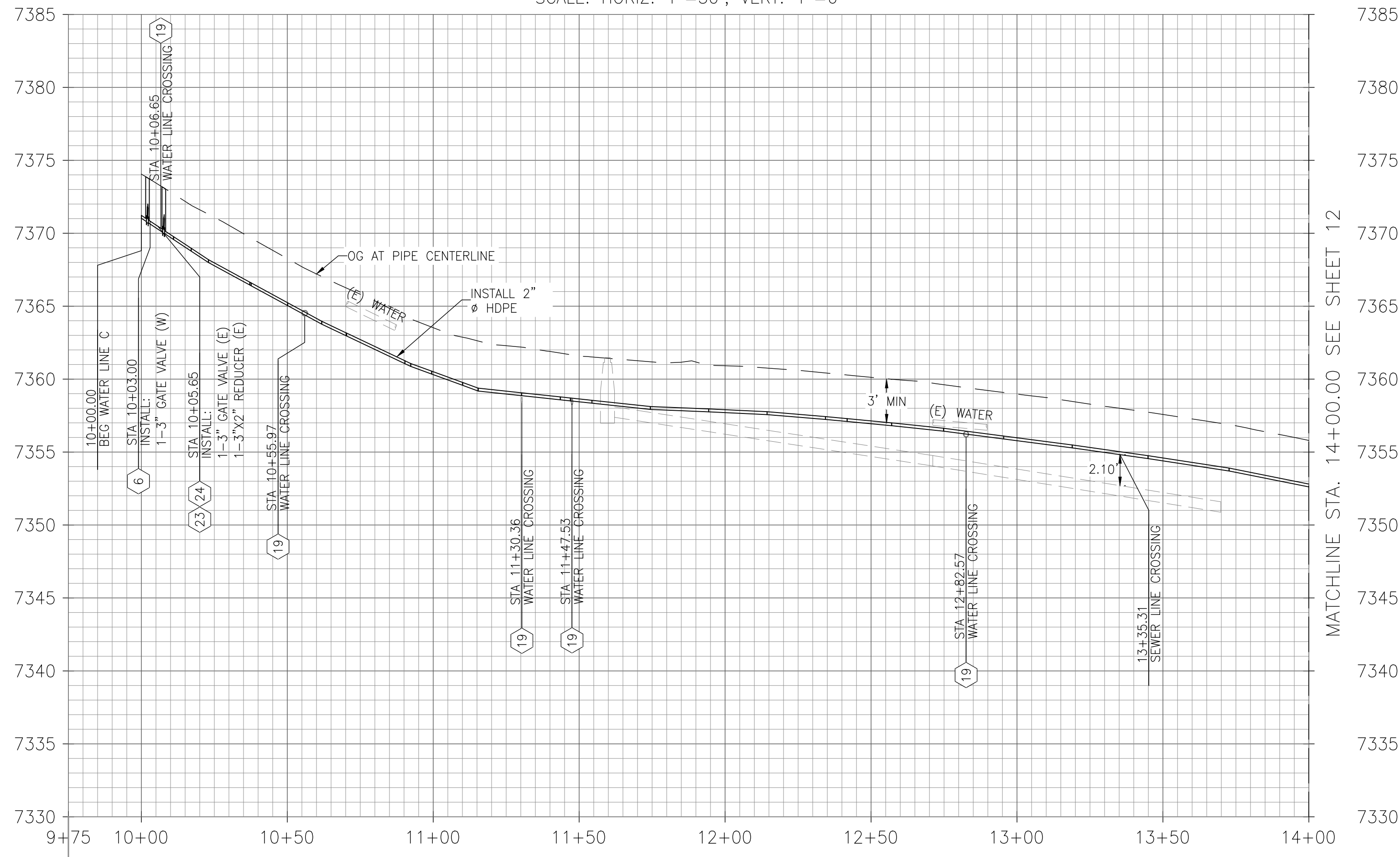


CONSTRUCTION NOTES

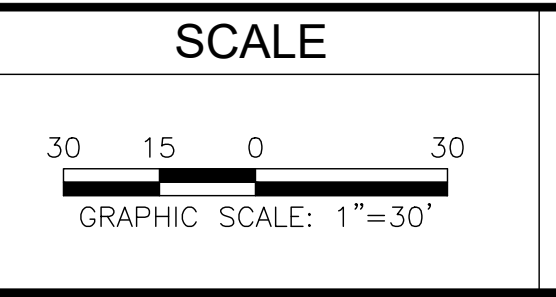
- CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.
- EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AT COMPLETION OF CONSTRUCTION.
- PIPELINE ALIGNMENT HORIZONTAL DESIGN POINTS AND COORDINATES ARE LISTED ON SHEET 06.
- HORIZONTAL AND VERTICAL PIPELINE SEPARATION SHALL BE MAINTAINED AS SHOWN ON THE PLANS.
- PROTECT TREES WITHIN THE PROJECT UNLESS OTHERWISE NOTED ON PLANS.
- SEPARATION SHOWN ON THE PROFILE OF NEW WATER PIPELINE AND EXISTING WATER PIPELINE AND/OR SEWER PIPELINE HAVE BEEN ASSUMED BASED ON AVAILABLE AND LIMITED INFORMATION ONLY, CONTRACTOR SHALL POTHOLE AND VERIFY LOCATIONS AS INDICATED IN CONSTRUCTION NOTE #1.

REFERENCE:
(X) REFERENCE NOTE IN SHEET LG-1

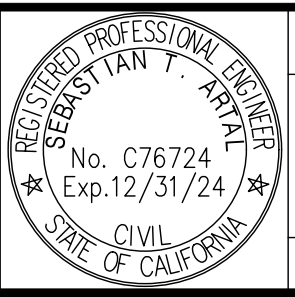
WATER LINE C - PROFILE
SCALE: HORIZ. 1"=30', VERT. 1"=6'



DESIGNED:	DATE:	RECORD DRAWING	
KCS	10/16/24	RESIDENT ENGINEER	DATE
DRAWN:	10/16/24		
CHECKED:	10/16/24		



[Signature]
SUPERVISING ENGINEER
DATE: 4/4/2024



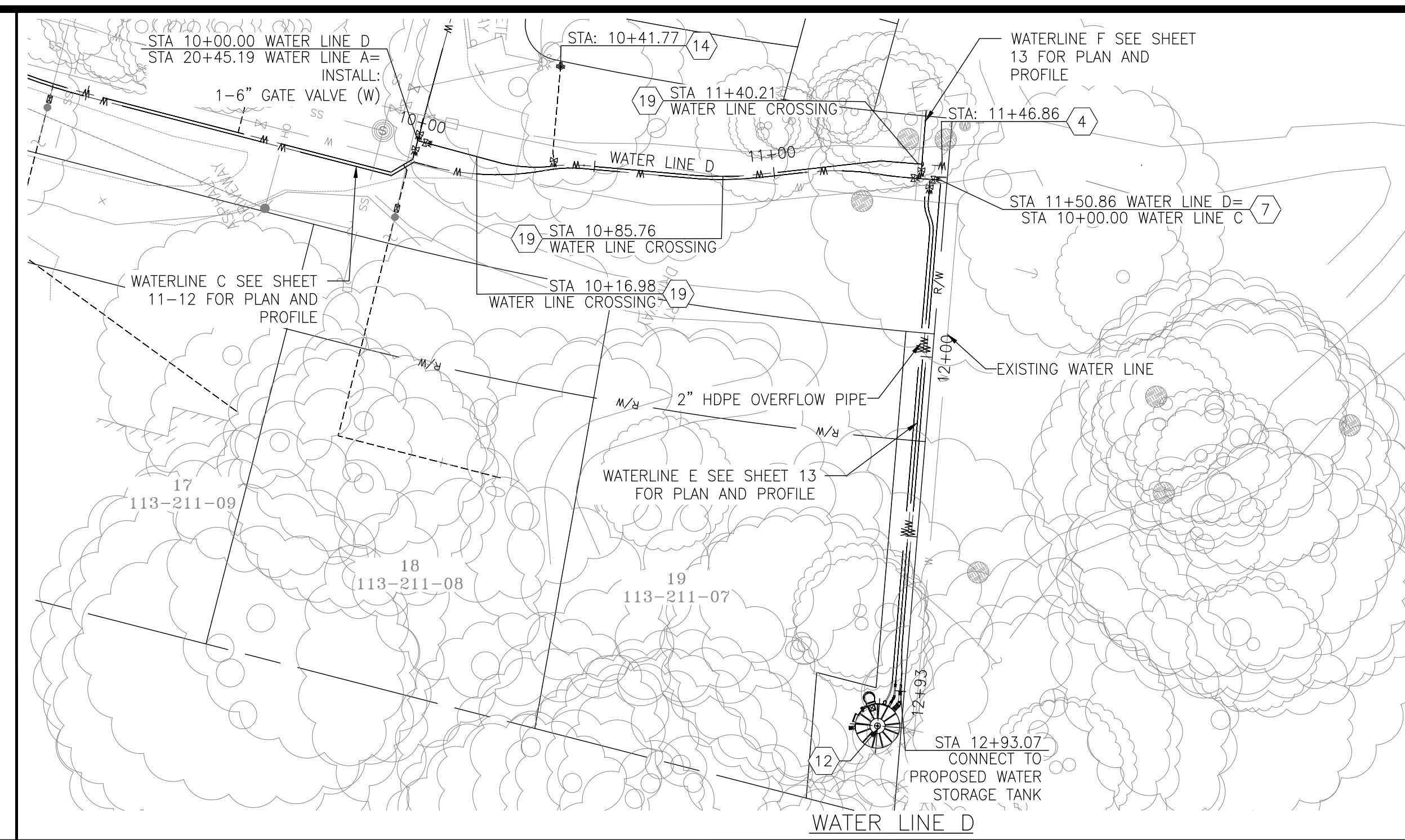
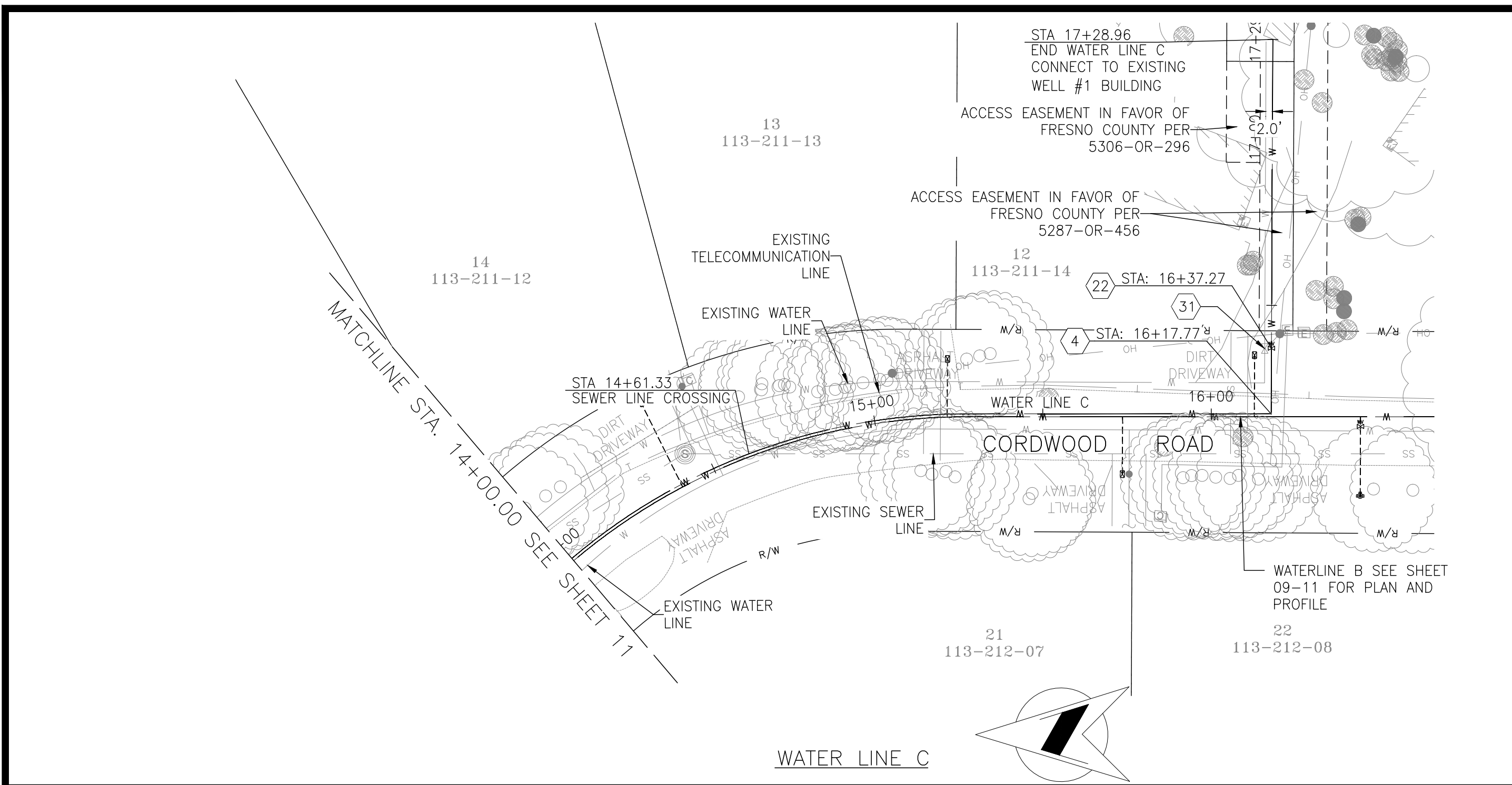
PROJECT
CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT
ROAD NO. - BRIDGE NO.



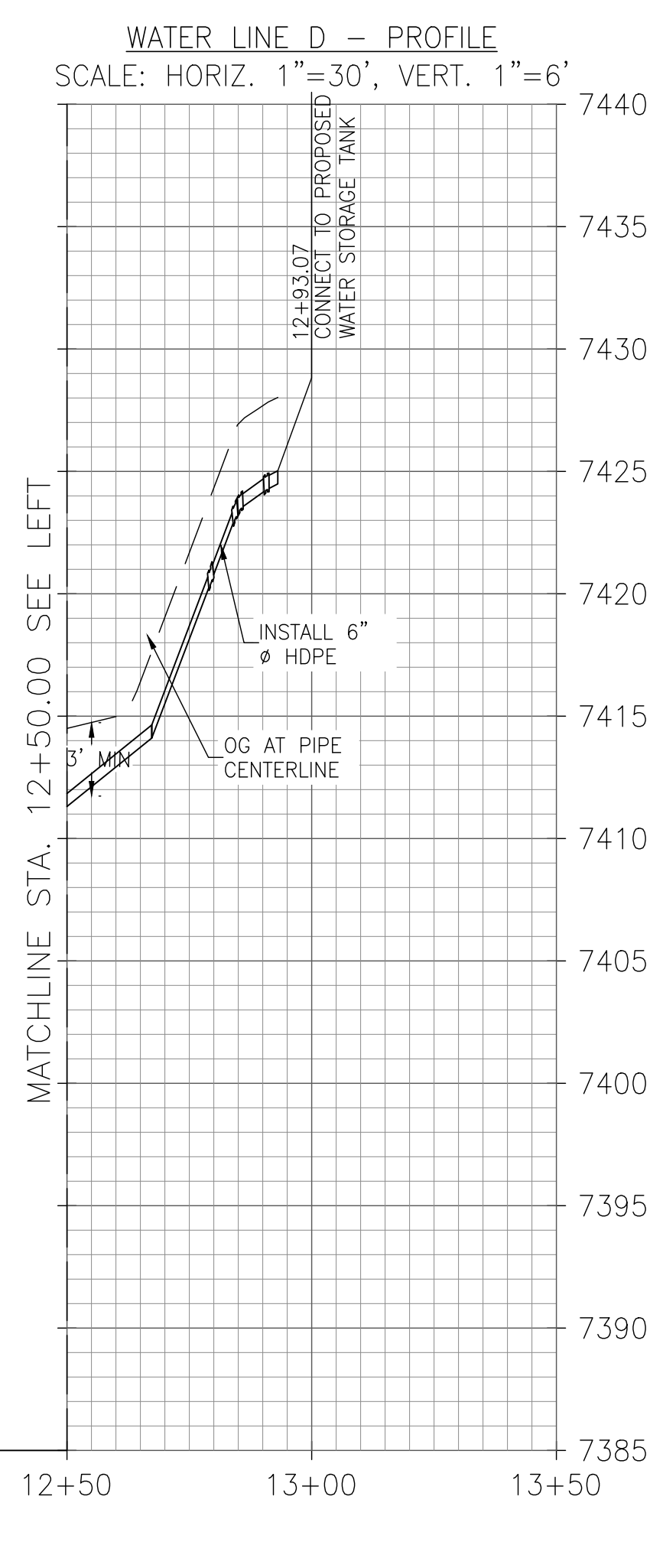
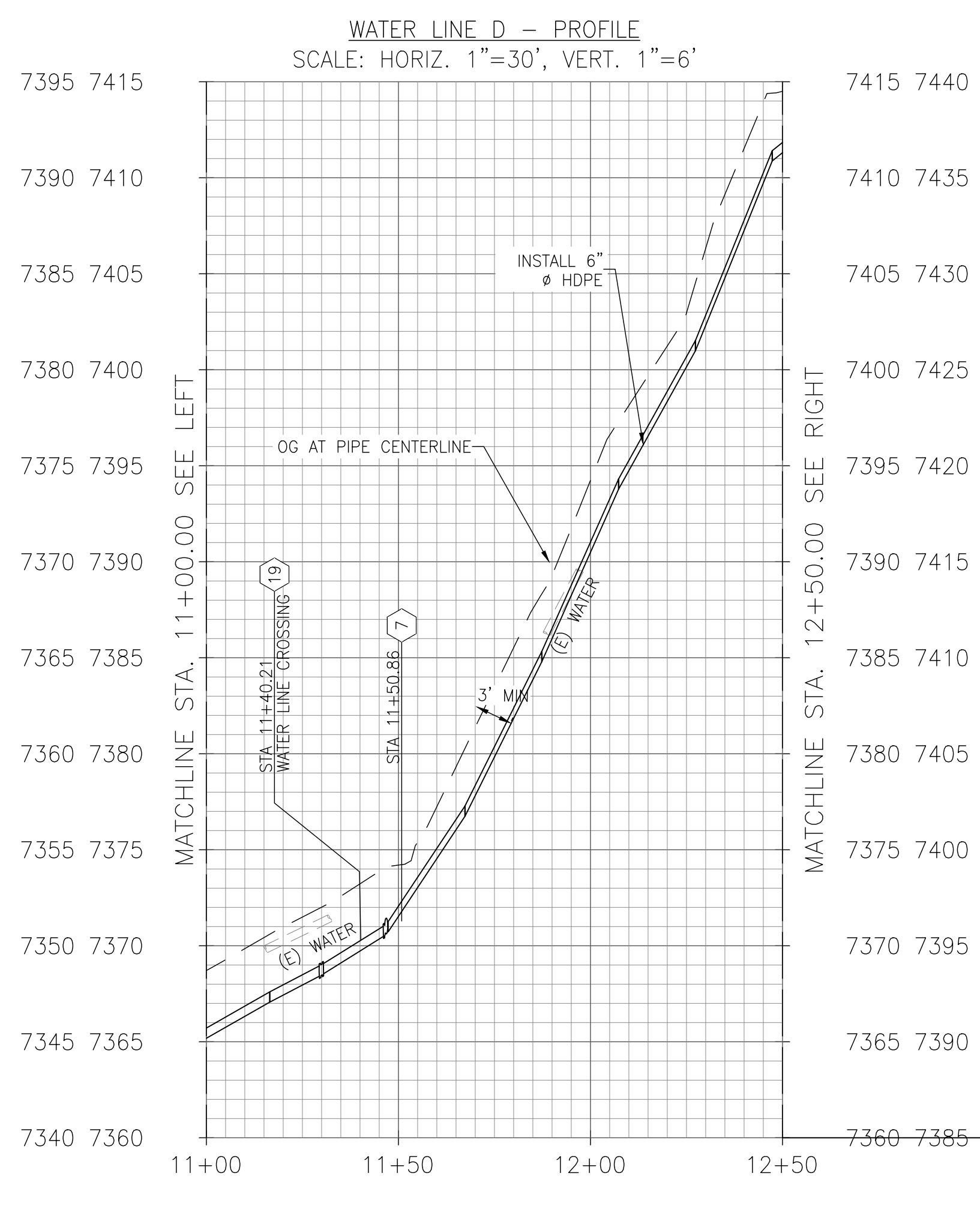
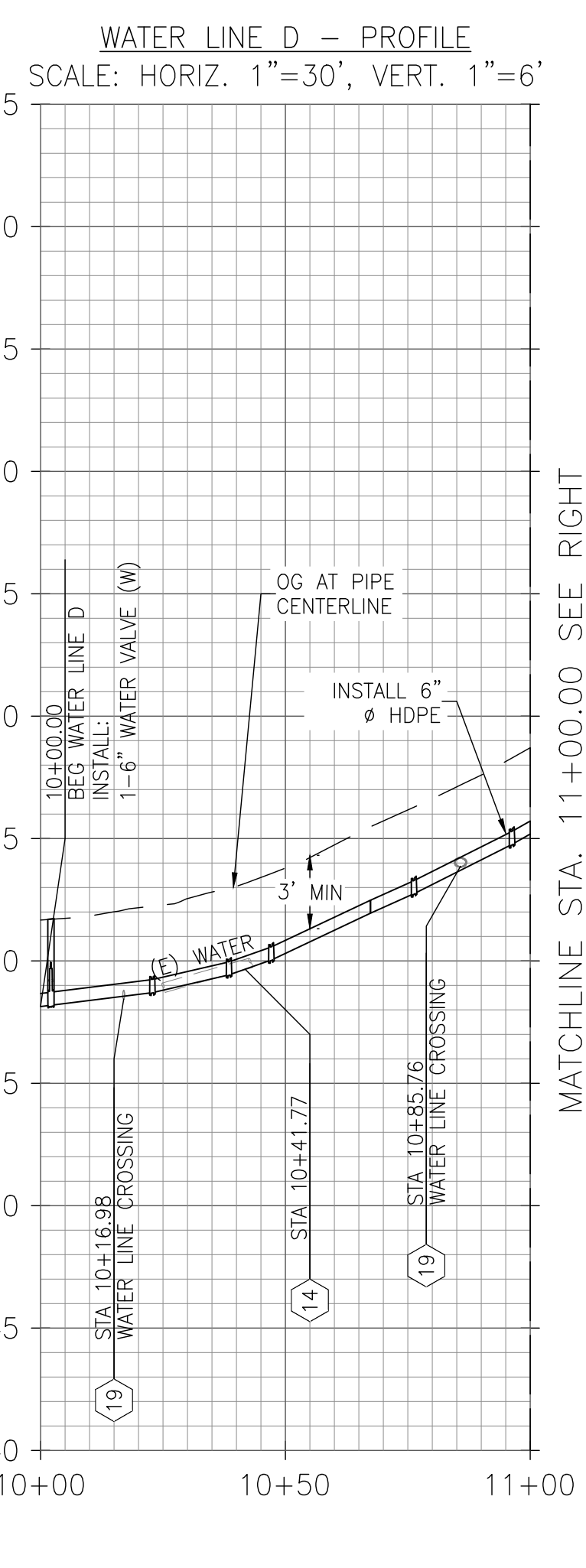
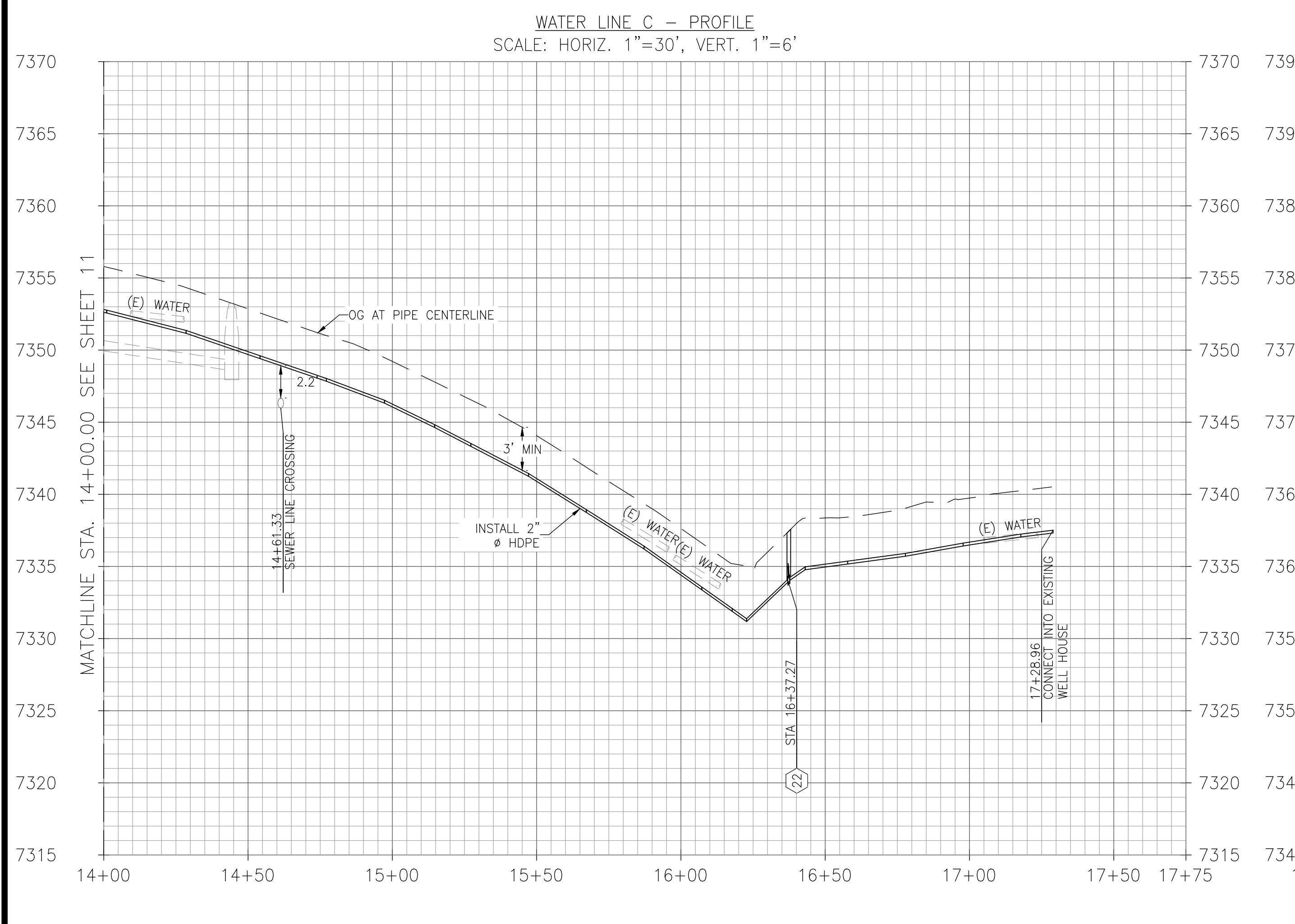
DEPARTMENT OF PUBLIC WORKS AND PLANNING
WATER LINE B AND C
L-5
DRAWING NO. 11334 SHEET NO. 11 TOTAL 23

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCIDWRG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\432360\002.DWG 10/16/2024 9:18 AM - SINGLETON, RICHARD



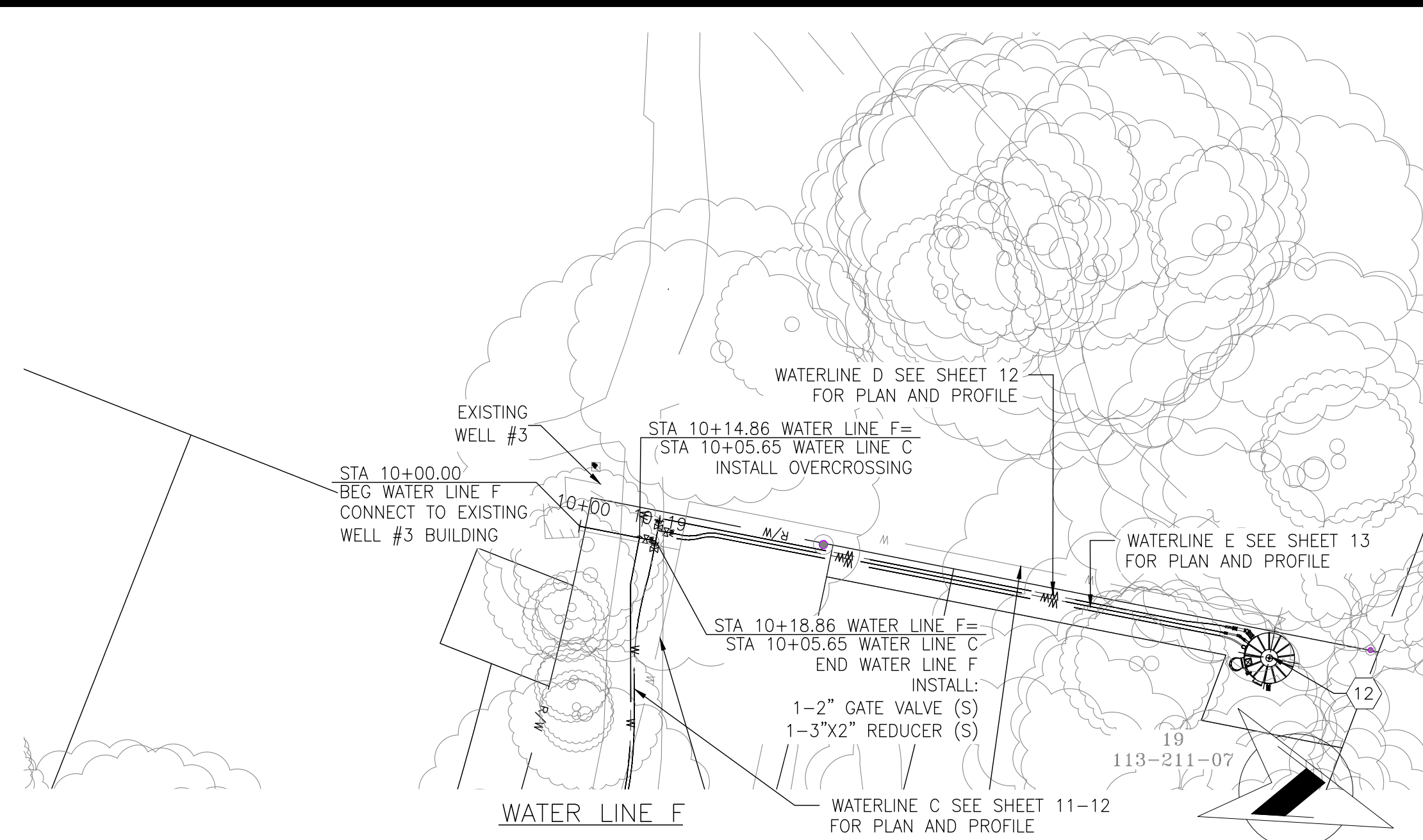
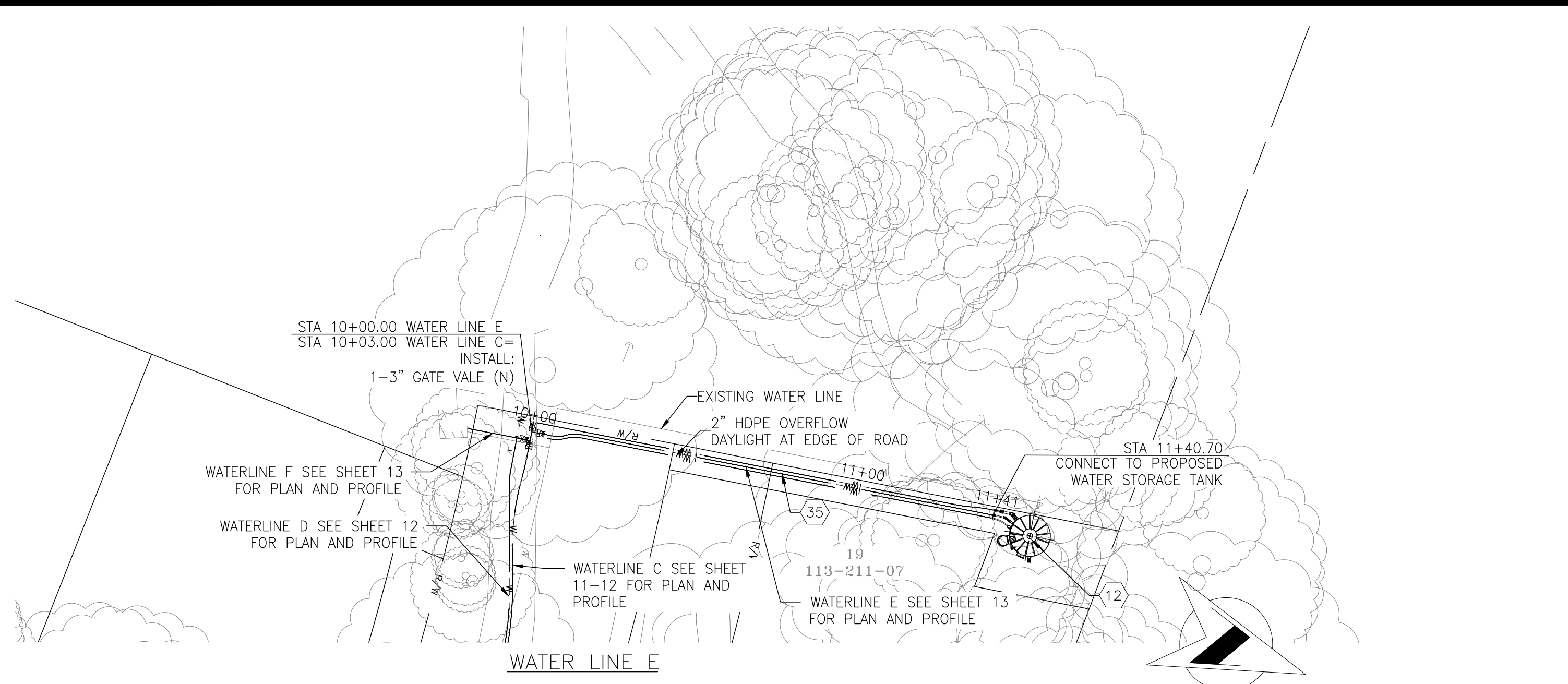
- CONSTRUCTION NOTES**
- CONTRACTOR SHALL POTHOLE AND VERIFY SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES AS THE FIRST ORDER OF WORK.
 - EXISTING WATER MAIN SHALL BE ABANDONED IN PLACE AT COMPLETION OF CONSTRUCTION.
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- REFERENCE:**
- (X) REFERENCE NOTE IN SHEET LG-1



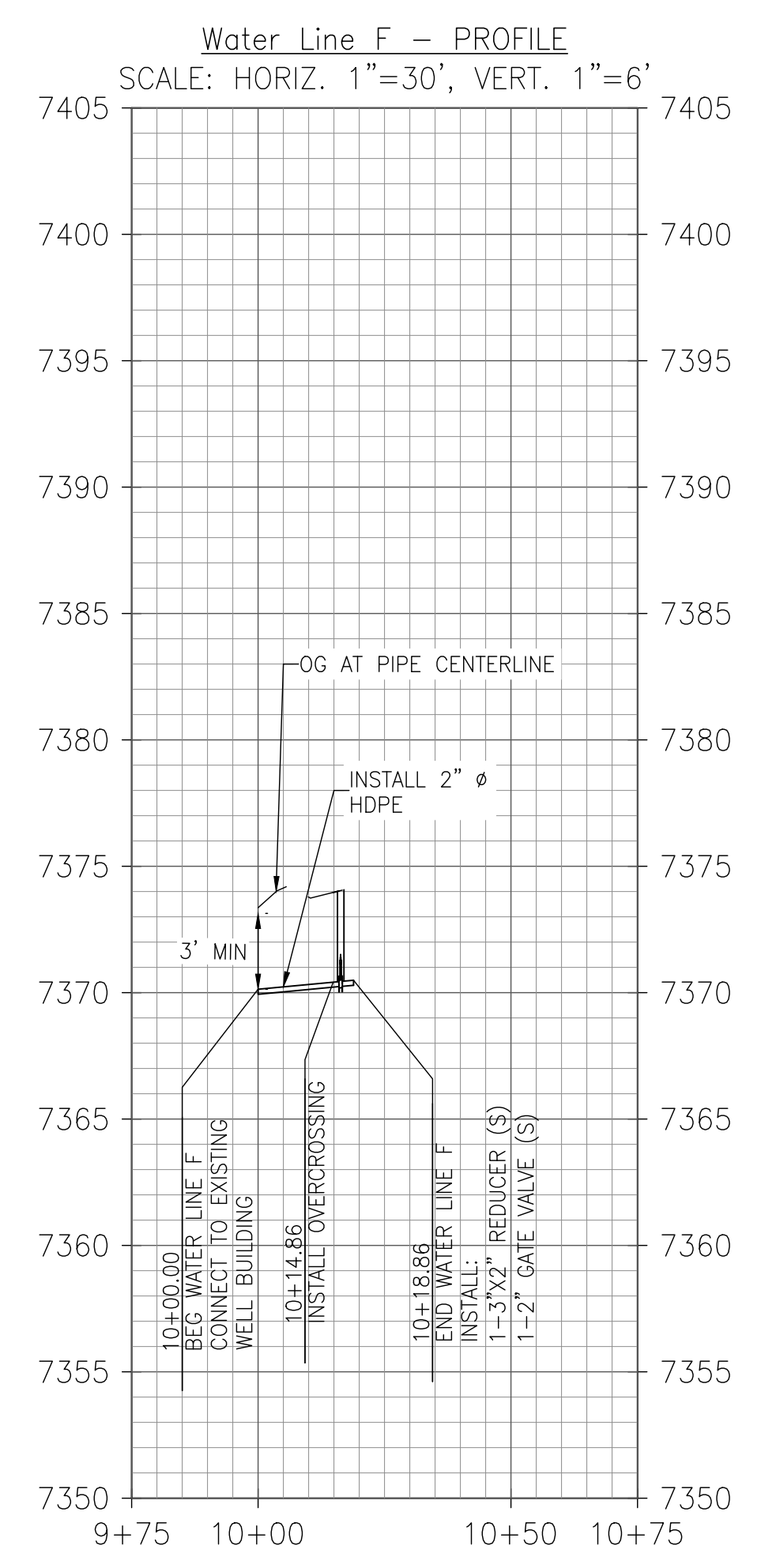
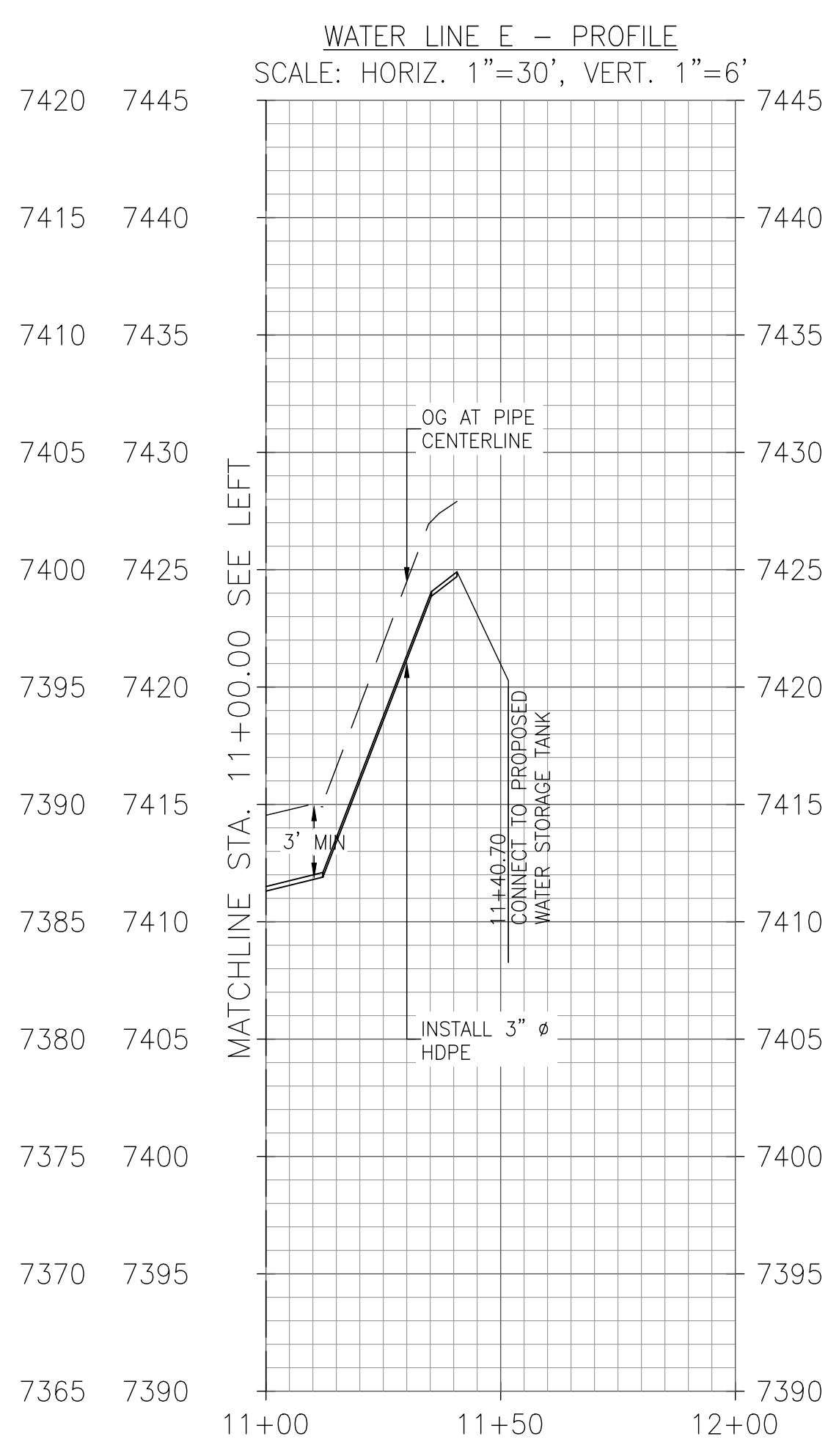
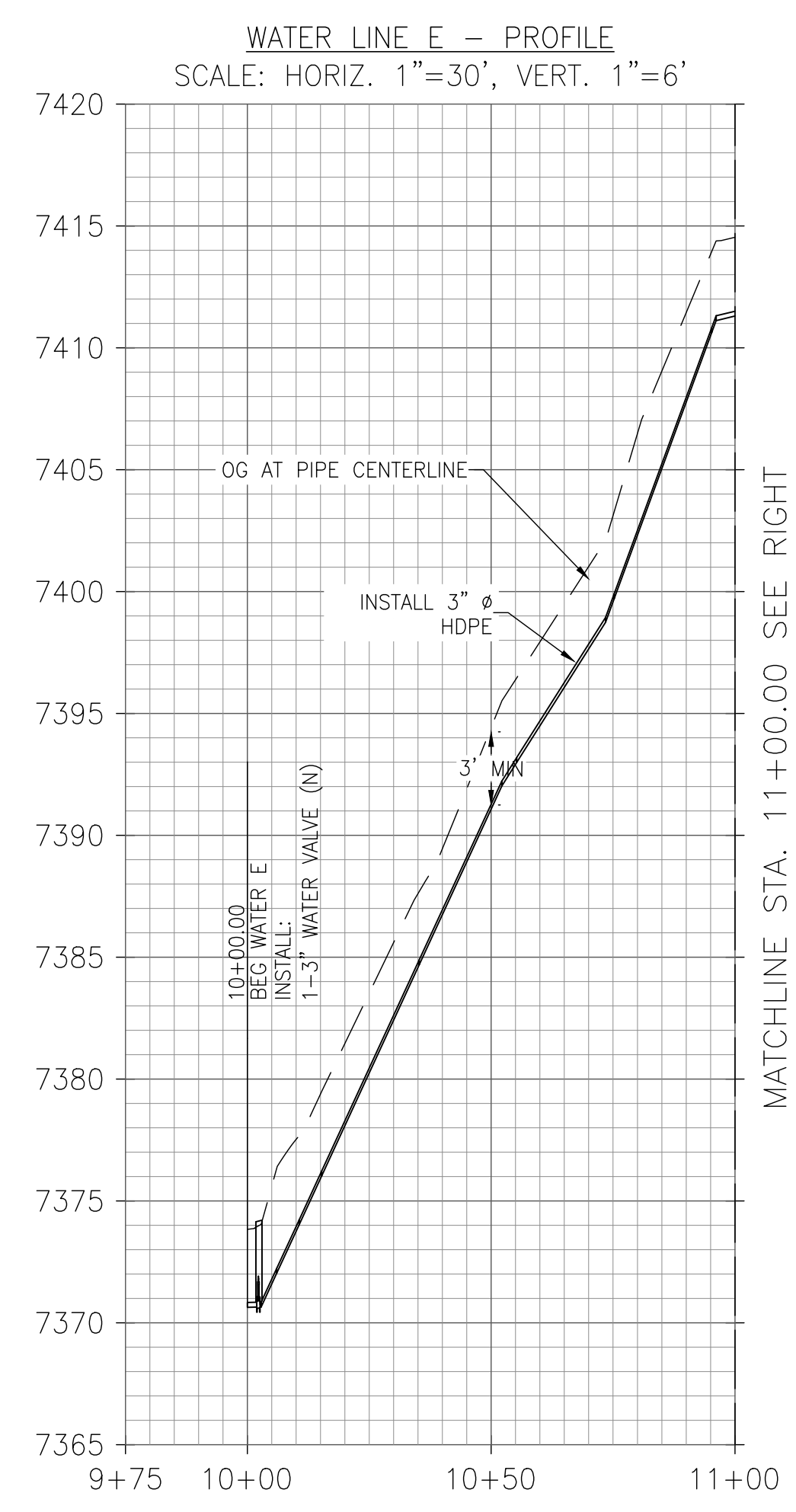
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DRAWN: KCS	DATE: 10/16/24	RESIDENT ENGINEER	<p>GRAPHIC SCALE: 1"=30'</p>	<p>SUPERVISING ENGINEER</p>	CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT	WATER LINE C AND D L-6
CHECKED: SA	DATE: 10/16/24	DATE				

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCIDWRG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\432360.L002.DWG 10/16/2024 9:19 AM - SINGLETON, RICHARD

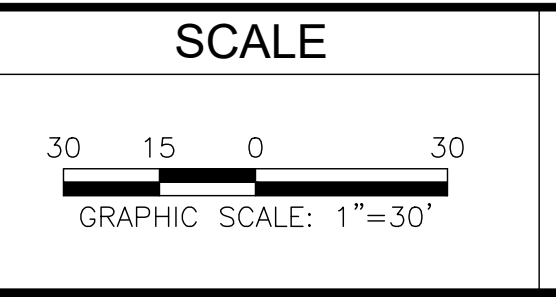


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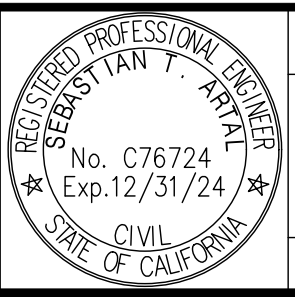
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DRAWN: KCS	DATE: 10/16/24	RESIDENT ENGINEER	DATE:
CHECKED: SA	DATE: 10/16/24		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.



[Signature]
SUPERVISING ENGINEER

4/4/2024
DATE



PROJECT
CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT

ROAD NO. - BRIDGE NO.



DEPARTMENT OF PUBLIC WORKS AND PLANNING
WATER LINE E AND F
L-7

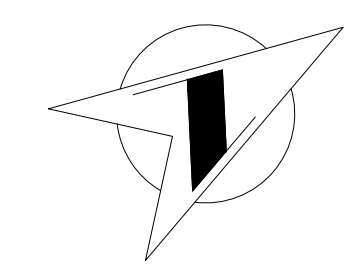
DRAWING NO. 11334 SHEET NO. 13 TOTAL 23

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- CONSTRUCTION NOTES**
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 3. ALIGNMENT HORIZONTAL DESIGN POINTS AND COORDINATES ARE LISTED ON SHEET 06.
 4. PROTECT TREES WITHIN THE PROJECT UNLESS OTHERWISE NOTED ON PLANS.
 5. SEE SHEETS 07-13 FOR PROPOSED PIPELINE PLAN AND PROFILE.

REFERENCE:
 (X) REFERENCE NOTE IN SHEET LG-1



DESIGNED:	DATE	RECORD DRAWING	
KCS	10/16/24	RESIDENT ENGINEER	DATE
DRAWN:	10/16/24		
CHECKED:	10/16/24		

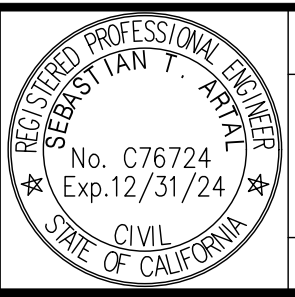
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE

GRAPHIC SCALE: 1"=20'

SUPERVISING ENGINEER

4/4/2024
DATE



PROJECT

CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT

ROAD NO. - BRIDGE NO.



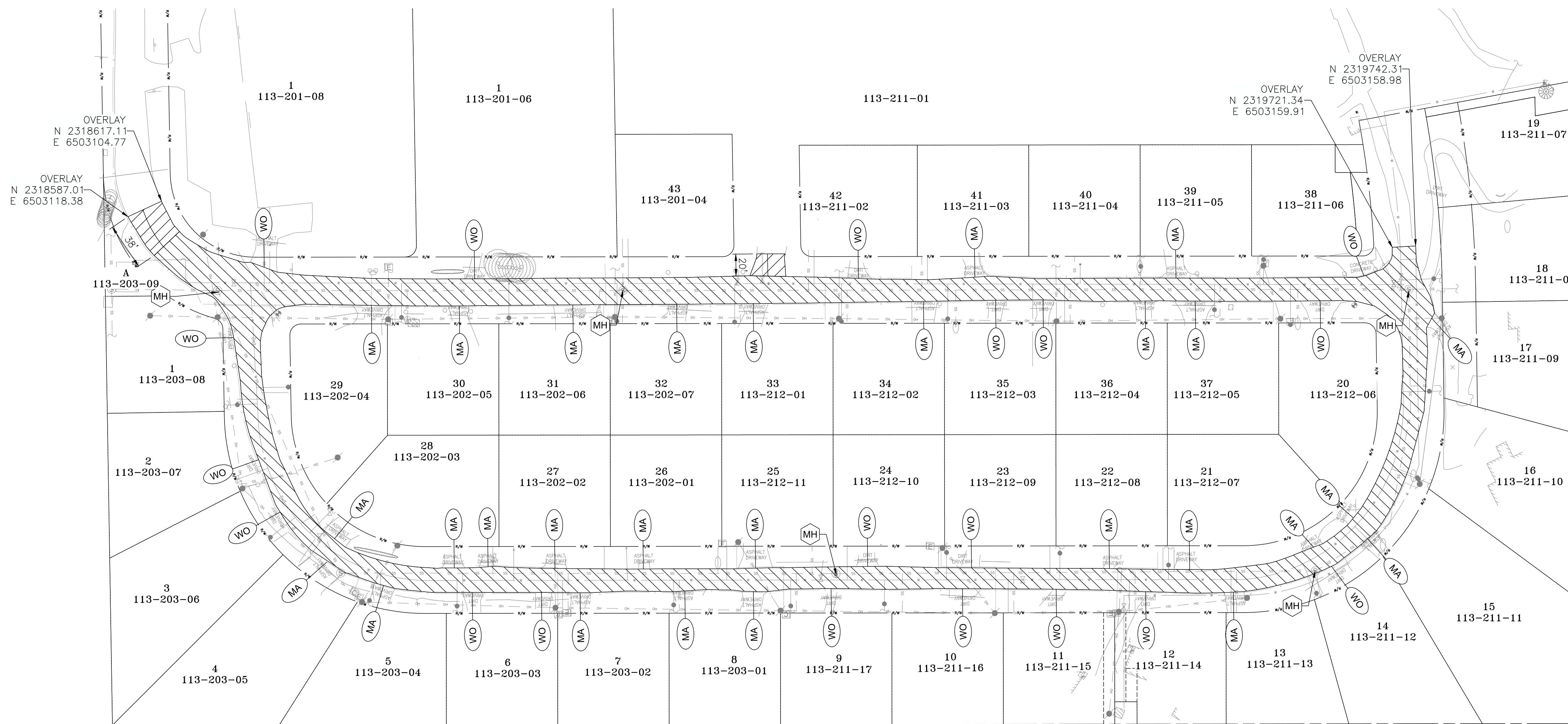
DEPARTMENT OF PUBLIC WORKS AND PLANNING

WATER TANK SITE

L-8

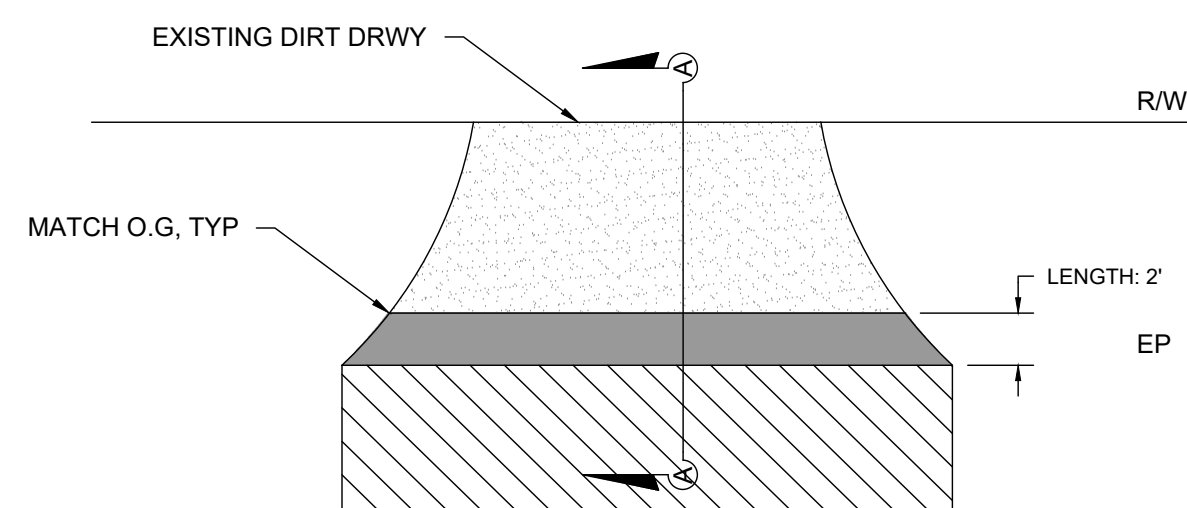
DRAWING NO. 11334 SHEET NO. 14 TOTAL 23

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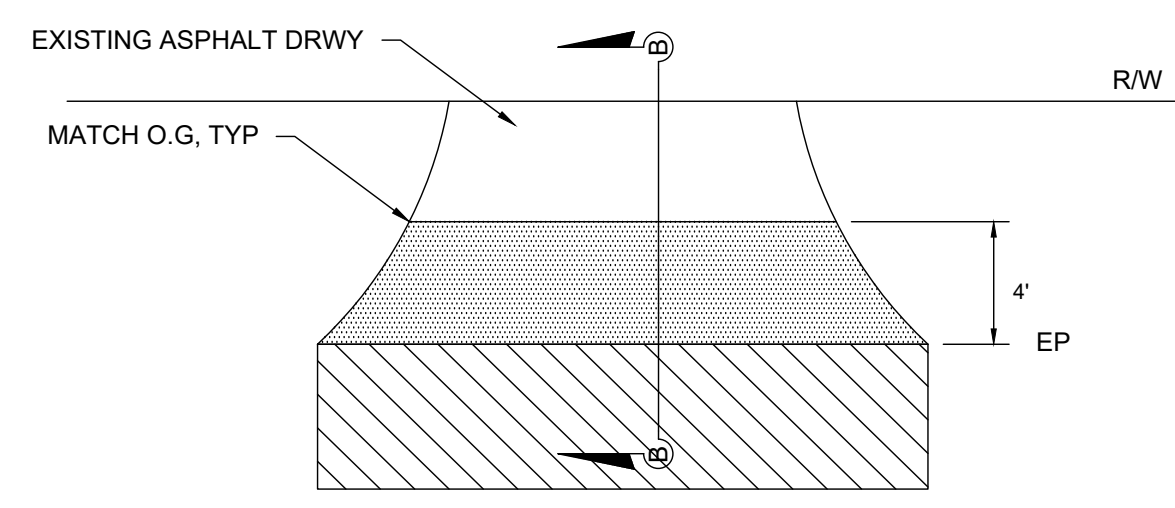
- CONSTRUCTION NOTES**
- ALIGNMENT HORIZONTAL DESIGN POINTS AND COORDINATES ARE LISTED ON SHEET 06.
 - SEE SHEETS 07-13 FOR PROPOSED PIPELINE PLAN AND PROFILE
 - OVERLAY THICKNESS PER DETAIL 3 SHEET CD-4
 - WATER INFRASTRUCTURE IMPROVEMENTS NOT SHOWN IN THIS SHEET FOR CLARITY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY NEW WATER VALVE BEING INSTALLED WITH THIS PROJECT WITH THE OVERLAY. COUNTY WILL NOT PAY FOR NEW WATER VALVE ADJUSTMENTS TO GRADE.

- REFERENCE:**
- DRIVEWAY WINGOUT PER DETAIL 1 THIS SHEET
 - TYPICAL ASPHALT DRIVEWAY APPROACH PER DETAIL 2 THIS SHEET
 - 0.15' HMA OVERLAY
 - OVERLAY TRANSITION PER DETAIL 3 THIS SHEET



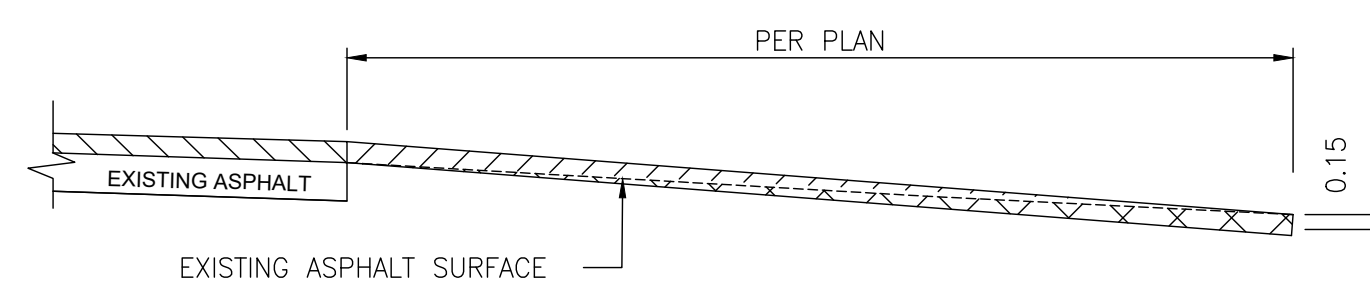
1 TYPICAL "WING OUT" DIRT DRWY ROAD APPROACH DETAIL
SCALE: N.T.S.

- NOTES:**
- WING-OUT ARE NOT PAID AS MISCELLANEOUS AREAS.
 - COST OF THE WING-OUT SHALL BE INCLUDED AS PART OF THE HMA BID ITEMS.



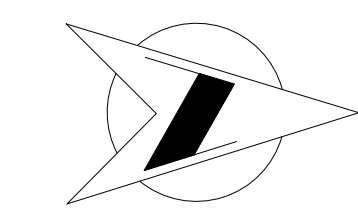
2 TYPICAL MISCELLANEOUS AREA - ASPHALT DRWY APPROACH DETAIL
SCALE: N.T.S.

- 0.15' OVERLAY
- AREA TO BE COLD PLANED
- PROPOSED ASPHALT DRWY



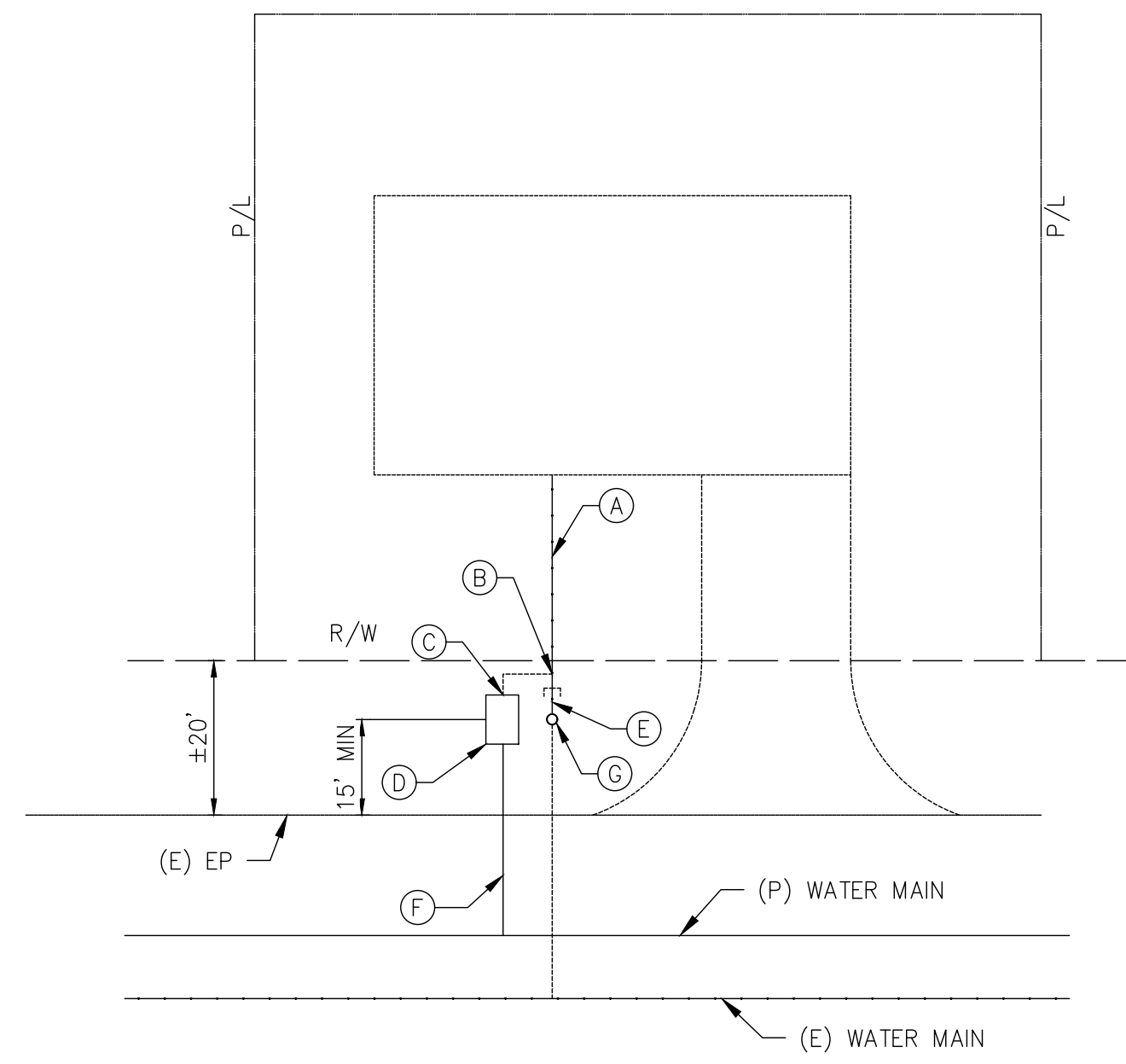
3 TYPICAL OVERLAY TRANSITION DETAIL
SCALE: N.T.S.

- 0.15' OVERLAY
- OVERLAY TRANSITION
- AREA TO BE COLD PLANED



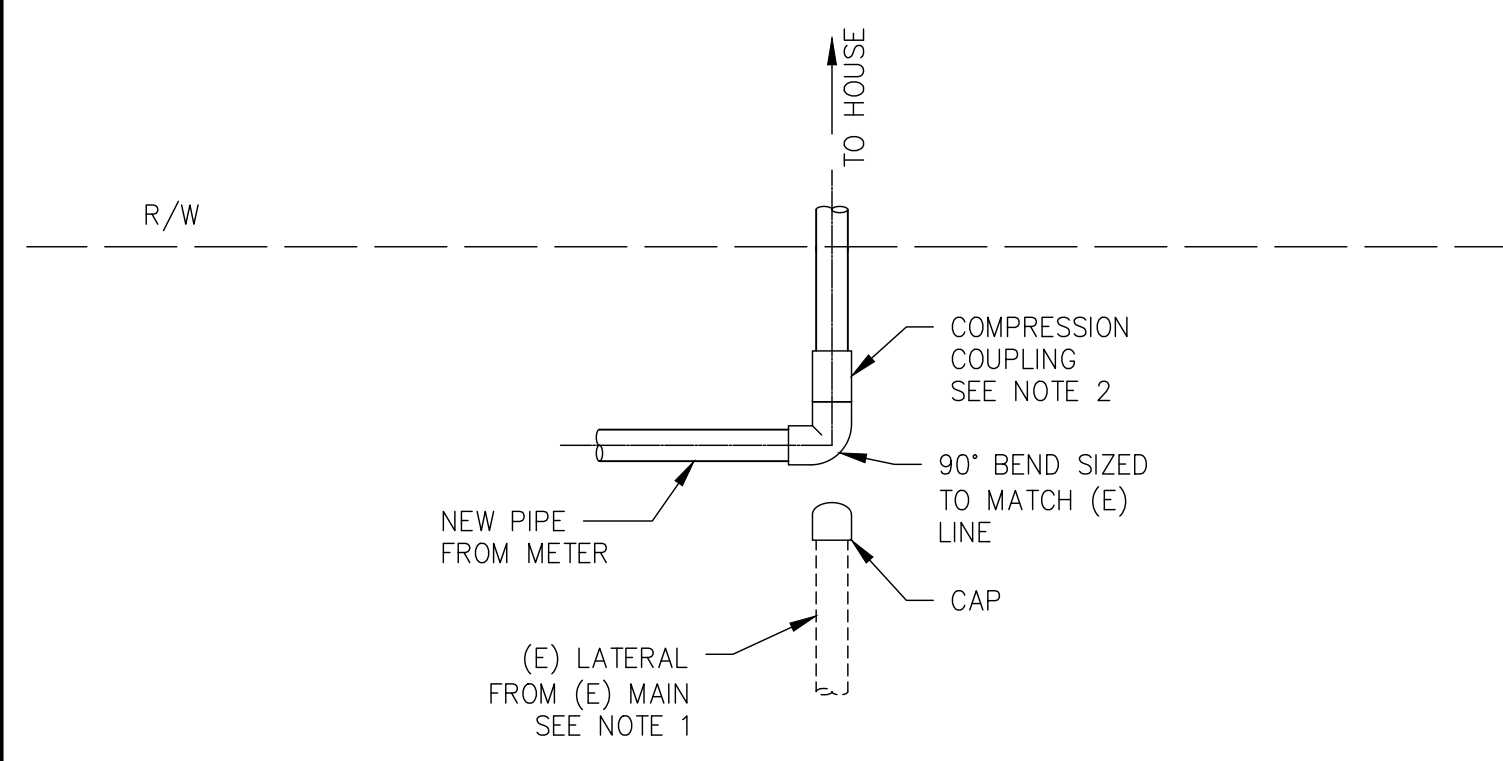
DESIGNED: KCS		DATE: 10/16/24	RECORD DRAWING		SCALE: 1"=60'		PROJECT: CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT		DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DRAWN: KCS		DATE: 10/16/24	RESIDENT ENGINEER		GRAPHIC SCALE: 1"=60'		BRIDGE NO. -		OVERLAY PLAN	
CHECKED: SA		DATE: 10/16/24	DATE: 4/4/2024		SUPERVISING ENGINEER		ROAD NO. -		L-9	
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.								DRAWING NO. 11334		TOTAL 23

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCIDWRG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\432360D1002.DWG 10/16/2024 9:22 AM - SINGLETON, RICHARD



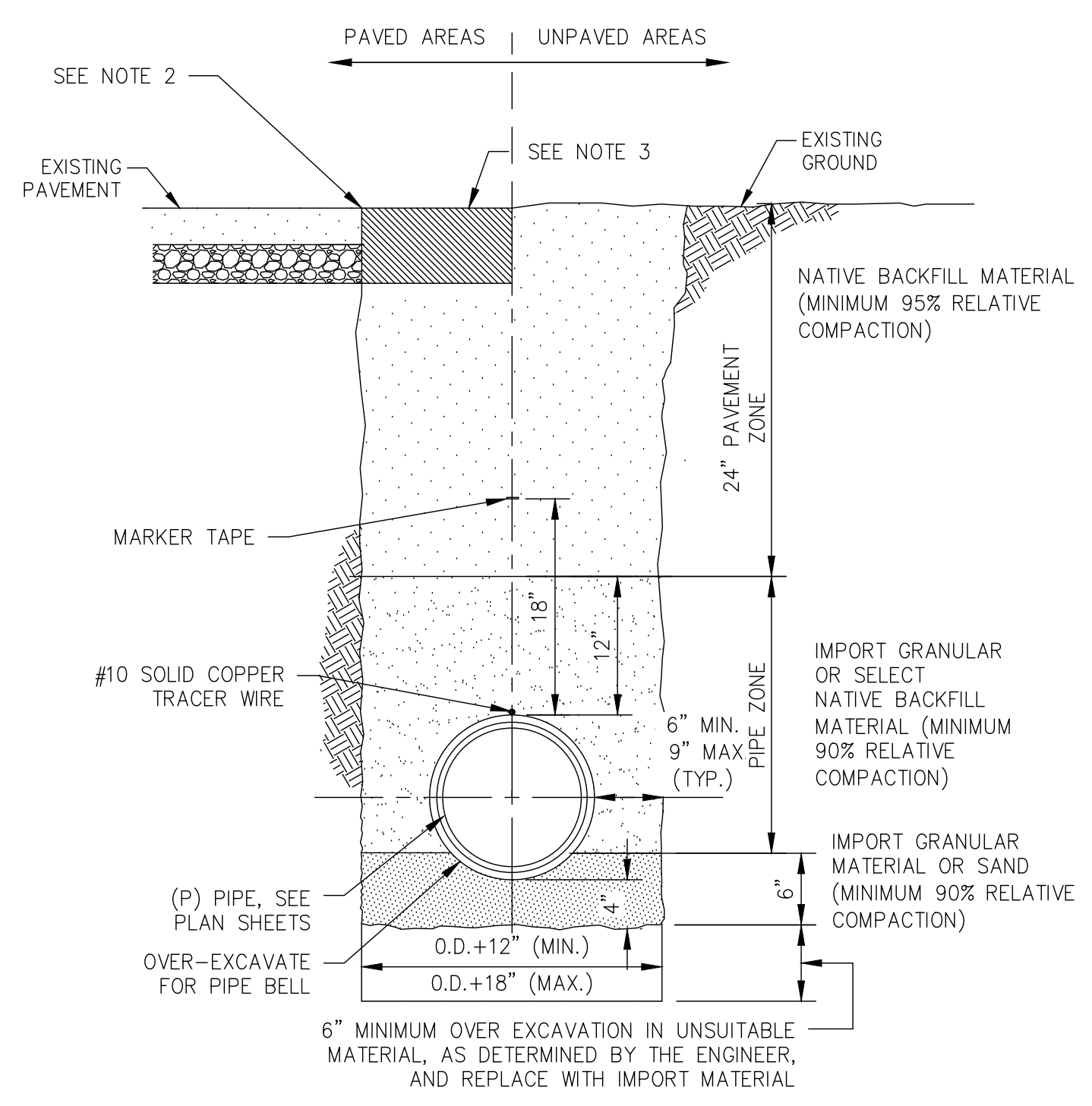
- CONSTRUCTION NOTES:**
- (A) CONNECTION TO (E) LINE PER DETAIL 2 SHEET CD-1.
 - (B) BORE, TRENCH, HAND DIG LINE.
 - (C) CONNECTION TO PIPING WITHIN METER BOX.
 - (D) NEW METER AND METER BOX PER DETAIL 5 ON SHEET CD-2.
 - (E) ABANDON (E) SERVICE PER DETAIL 4 SHEET CD-3.
 - (F) NEW WATER SERVICE LINE PER DETAIL 5 ON SHEET CD-2.
 - (G) EXISTING STEEL CASING TO BE REMOVED. SEE DETAIL 5 SHEET CD-3.
- NOTES**
- 1. REPLACE ALL SURFACE AND LANDSCAPING TO PRE-CONSTRUCTION CONDITION (IN-KIND).

1
CD-1 3/4" WATER SERVICE CONNECTION, WATER METER AND METER BOX



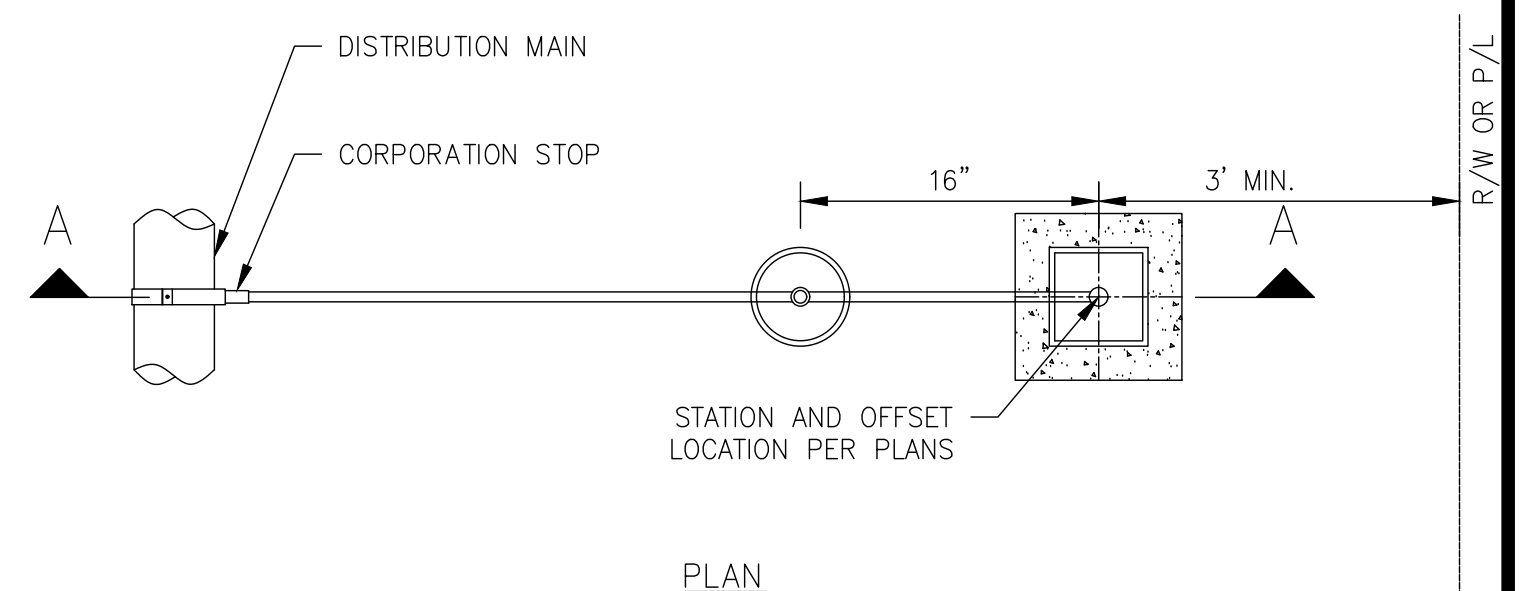
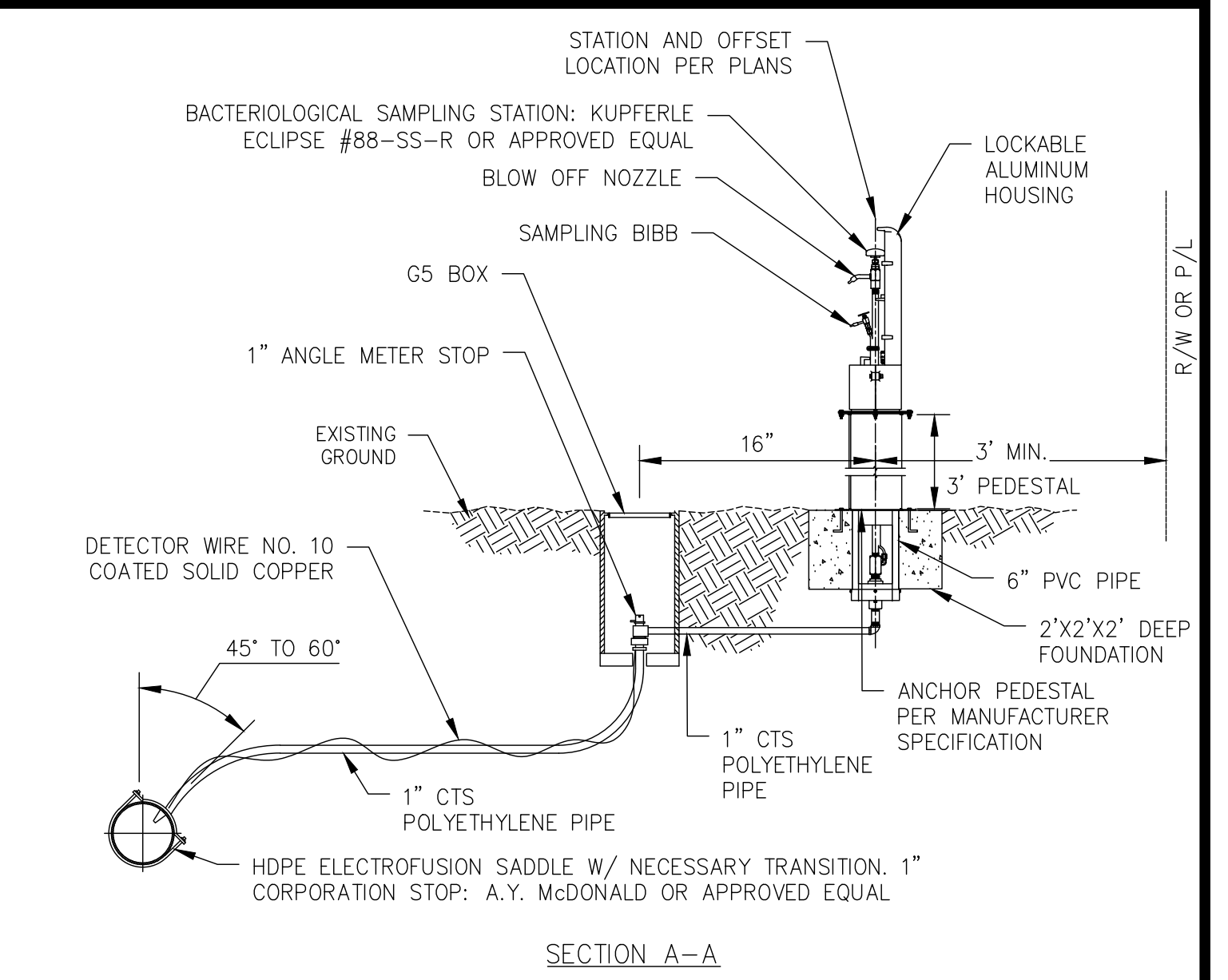
- NOTES**
- 1. ABANDON (E) LINE PER DETAIL 5 ON SHEET CD-3.
 - 2. INSTALL INSULATING COUPLING AT CONNECTION BETWEEN TWO DIFFERENT METALS IF NECESSARY.
 - 3. ALL FITTINGS SHALL BE SIZED TO MATCH THE EXISTING LINE.
 - 4. CONTRACTOR RESPONSIBLE FOR ALL WORK ASSOCIATED WITH PROVIDING A FULLY FUNCTIONAL LEAD LINE CONNECTION.
 - 5. NEW PIPE MATERIAL TO BE HDPE.

2
CD-1 EXISTING SERVICE LINE CONNECTION (SIDE BY SIDE SERVICE)



- NOTES**
- 1. NO JETTING IS ALLOWED.
 - 2. CUT NEAT LINE AT EDGES OF PAVEMENT (TYP.)
 - 3. TRENCH RESURFACING SHALL BE PER DETAIL 3 ON DRAWING CD-4.
 - 4. TEMPORARY RESURFACING SHALL CONSIST OF A MINIMUM OF 4" COLD MIX AND SHALL BE REQUIRED WHENEVER THE STREET IS TEMPORARILY OPENED TO TRAFFIC. ALL TEMPORARY MATERIAL SHALL BE COMPLETELY REMOVED PRIOR TO FINAL PAVING. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING IT DURING DURATION OF CONSTRUCTION.

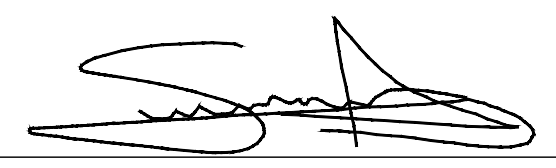


3
CD-1 PIPE BEDDING AND TRENCH BACKFILL



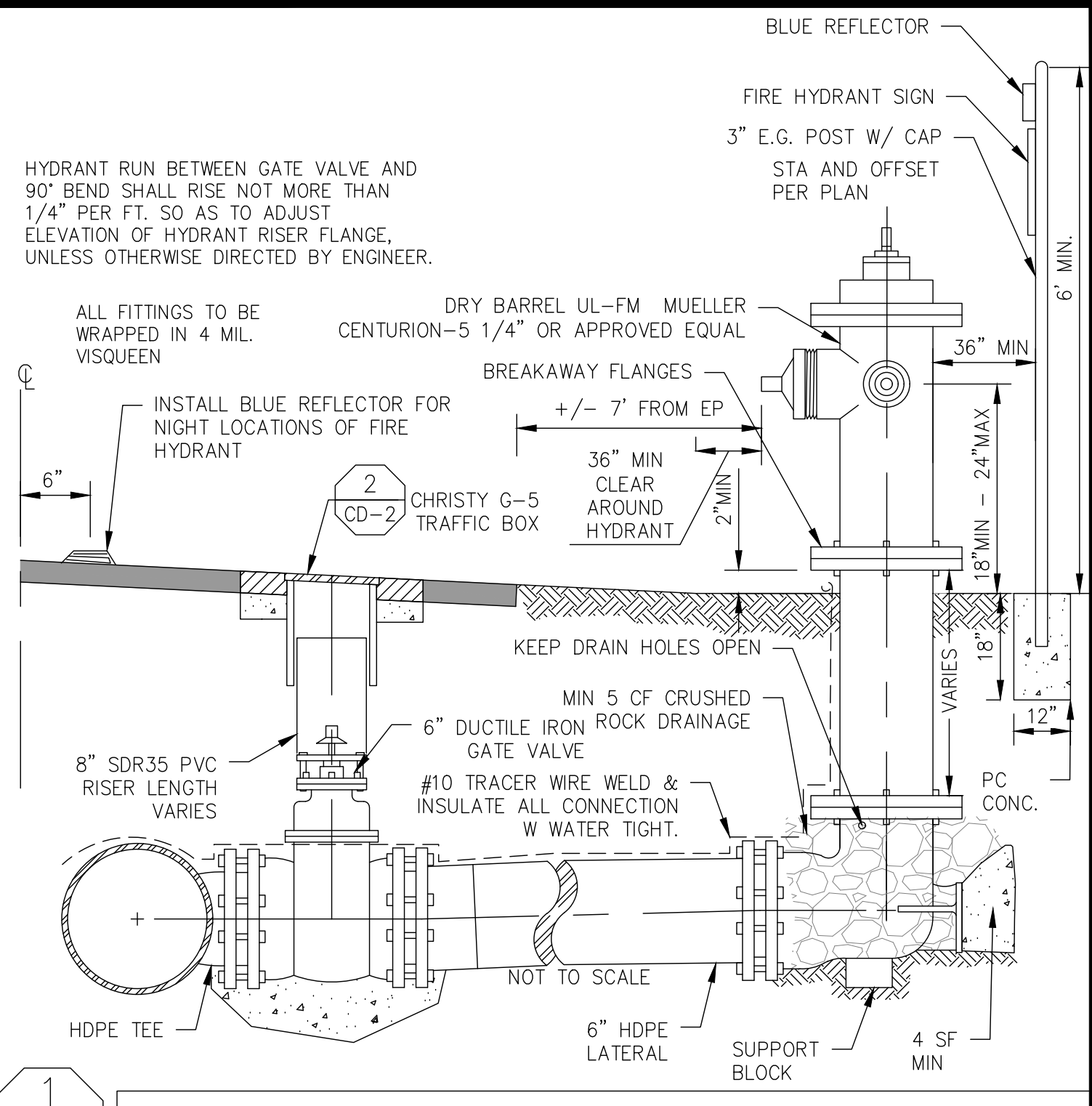
- NOTES:**
- 1. PIPES SHALL BE POLYETHYLENE.
 - 2. ALL UNDERGROUND STEEL PIPE AND FITTINGS SHALL BE GALVANIZED AND COATED.
 - 3. ALL ABOVE GROUND STEEL PIPE AND FITTINGS SHALL BE GALVANIZED.
 - 4. INSTALL FOUNDATION PER CALTRANS STANDARD SPECIFICATION SECTION 90

4
CD-1 BACTERIOLOGICAL SAMPLING STATION

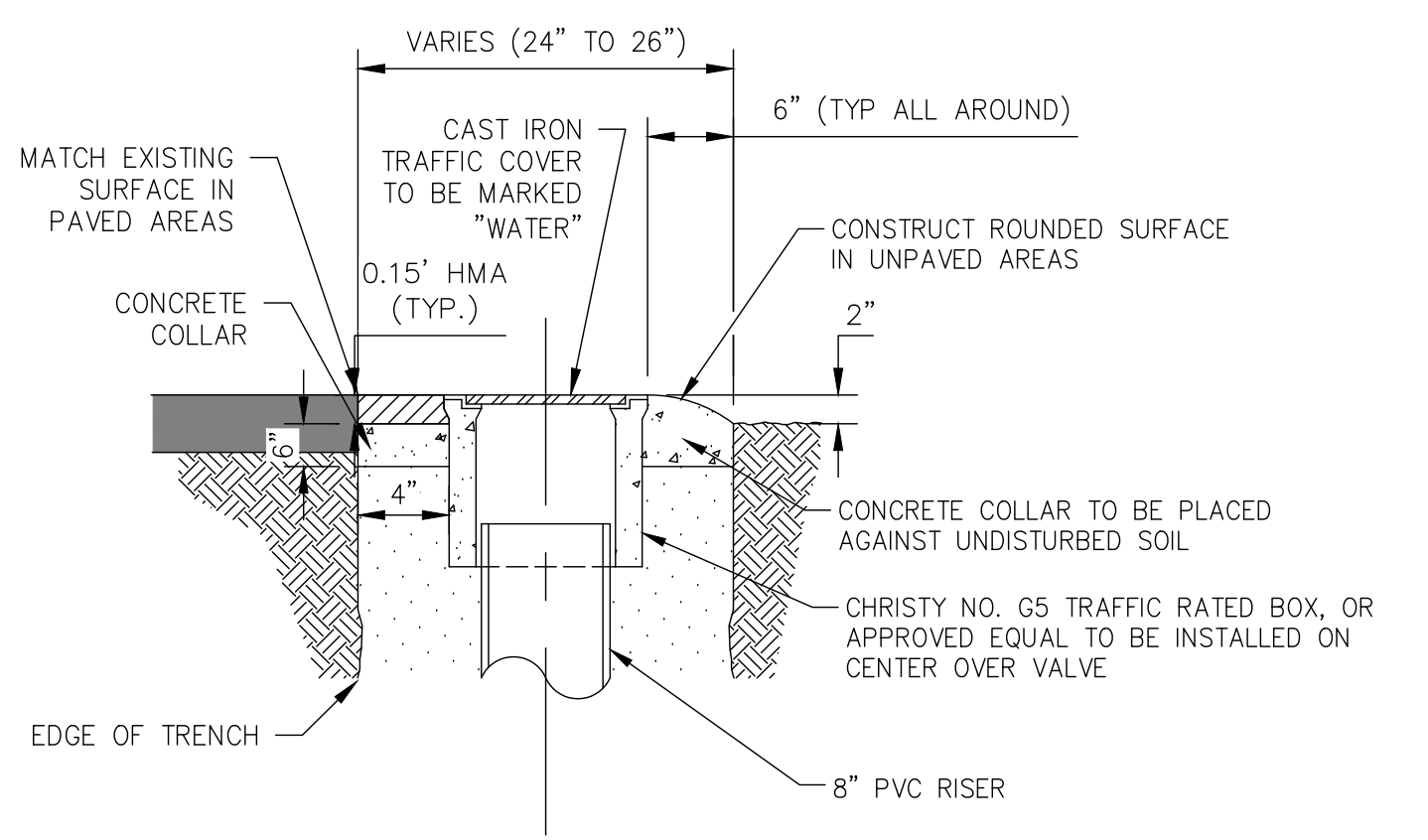


DESIGNED: KCS	DATE: 10/16/24	RECORD DRAWING		SCALE	 SUPERVISING ENGINEER DATE: 4/4/2024	 No. C76724 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA	PROJECT	 DEPARTMENT OF PUBLIC WORKS AND PLANNING CONSTRUCTION DETAILS CD-1	
DRAWN: KCS	DATE: 10/16/24	RESIDENT ENGINEER	DATE	CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT			ROAD NO. -		BRIDGE NO.
CHECKED: SA	DATE: 10/16/24								
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.									

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCIDWRG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\432360D\TLO02.DWG 10/16/2024 9:23 AM - SINGLETON, RICHARD

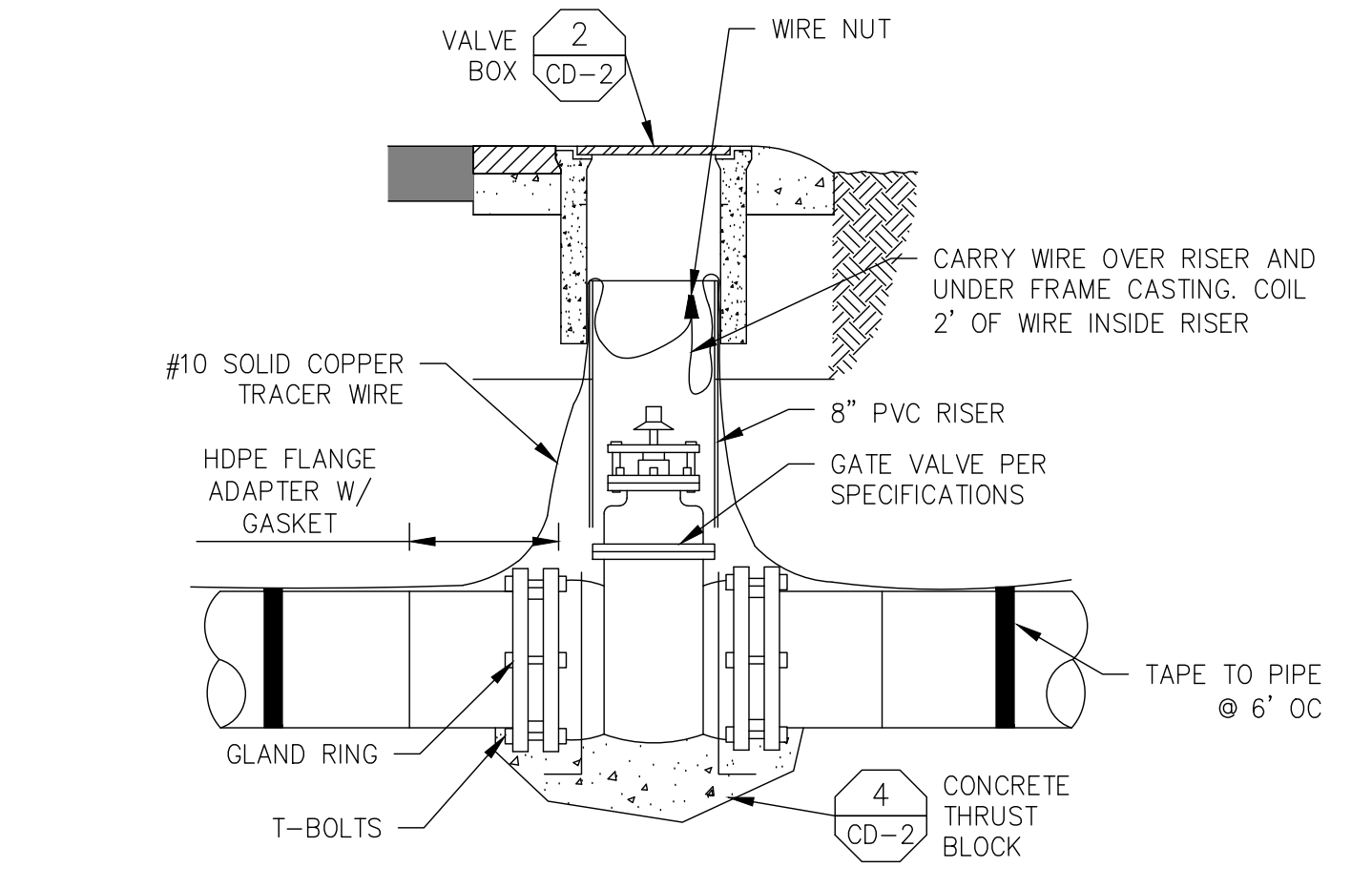


FIRE HYDRANT



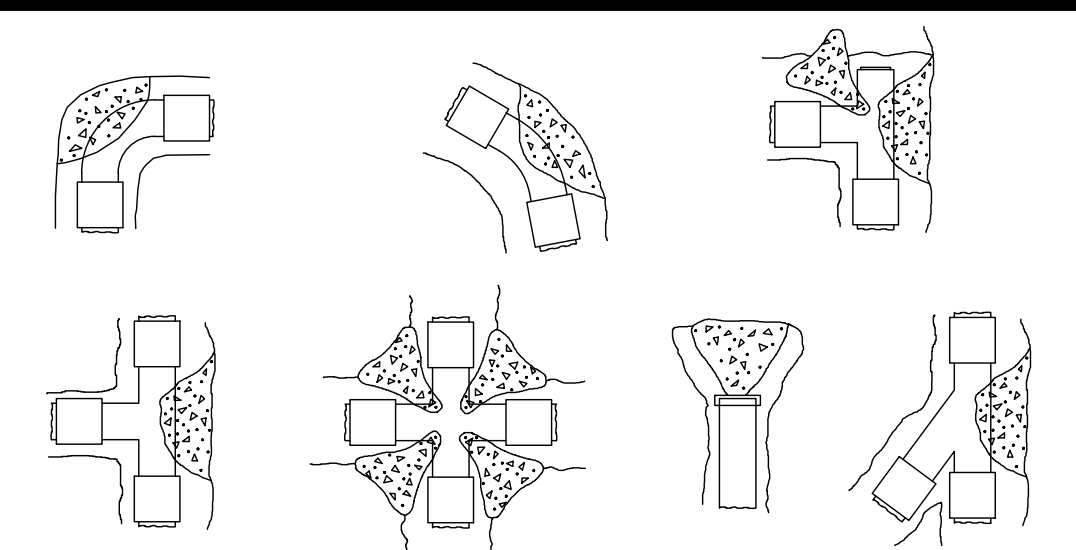
- NOTES**
- ADJUST VALVE BOX AND COVER TO FINISHED GRADE.
 - CONCRETE COLLAR SHALL BE CONSTRUCTED USING MINOR CONCRETE PER CALTRANS STANDARD SPECIFICATION SECTION 90.
 - APPLY PAINT BINDER TO EXPOSED SIDE OF VALVE BOX PRIOR TO PAVING.

WATER VALVE BOX



- NOTES**
- EXTENSION ROD REQUIRED WHEN DISTANCE FROM FINISHED GRADE IS GREATER THAN 36" CONSTRUCT CONCRETE COLLAR.
 - PROVIDE AT LEAST 6" OF OVERLAP BETWEEN RISER PIPES.
 - THRUST BLOCK ANCHORAGE REQUIRED FOR NON-FLANGED FITTINGS. ASSUME DEAD END CONDITION WITH #4 REBAR.
 - THRUST BLOCK SHALL EXTEND A MINIMUM OF 6" BEYOND THE EDGE OF THE VALVE BODY ON EACH SIDE.

VALVE & VALVE BOX INSTALLATION



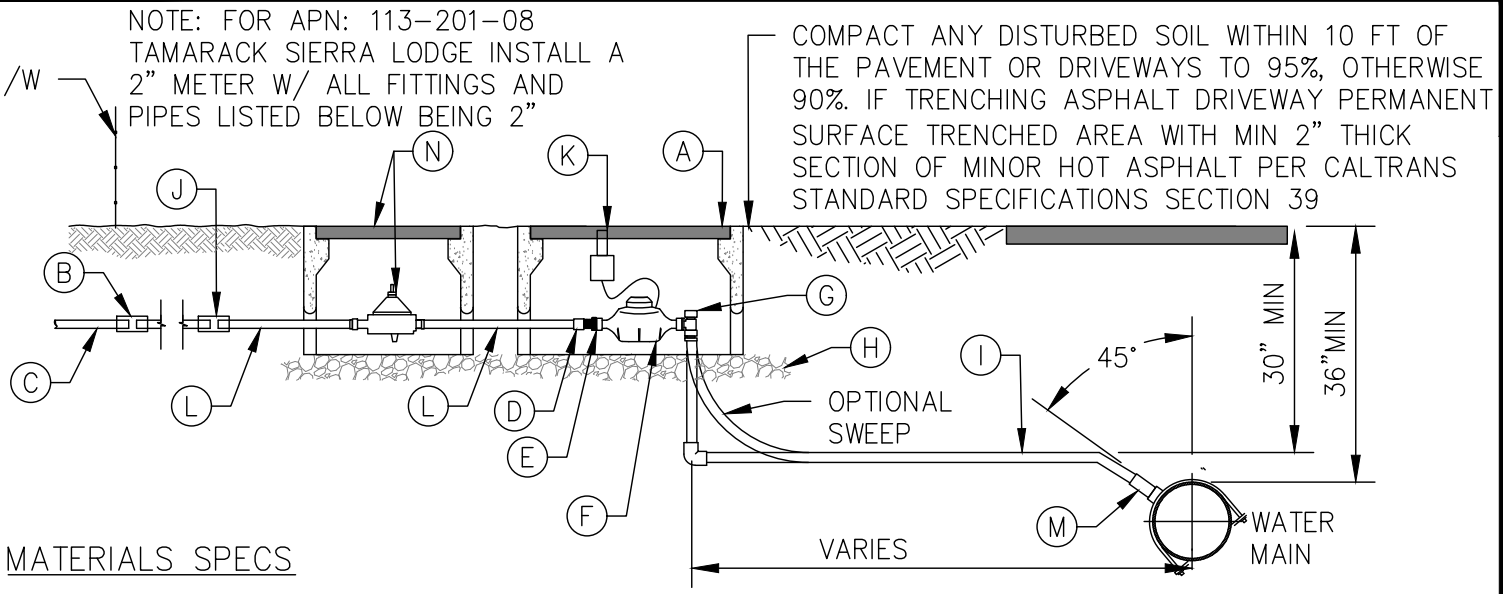
AREA OF CONCRETE BEARING AGAINST UNDISTURBED SOIL SQUARE FEET

PIPE SIZE	DEAD END OR TEE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6	1.8	2.5	1.4	0.7	0.3
8	3.1	4.4	2.4	1.2	0.6
10	4.9	6.9	3.8	1.9	1.0
12	7.0	10.0	5.4	2.8	1.4
14	9.5	13.6	7.4	3.8	1.9

BASED ON 2000 P.S.F. SOIL BEARING CAPACITY AND 125 P.S.I. STATIC PRESSURE - SPECIAL DESIGN REQUIRED FOR SOIL LESS THAN 2000 P.S.F. CONCRETE TO HAVE ULTIMATE STRENGTH OF 2500 P.S.I. @ 28 DAYS.

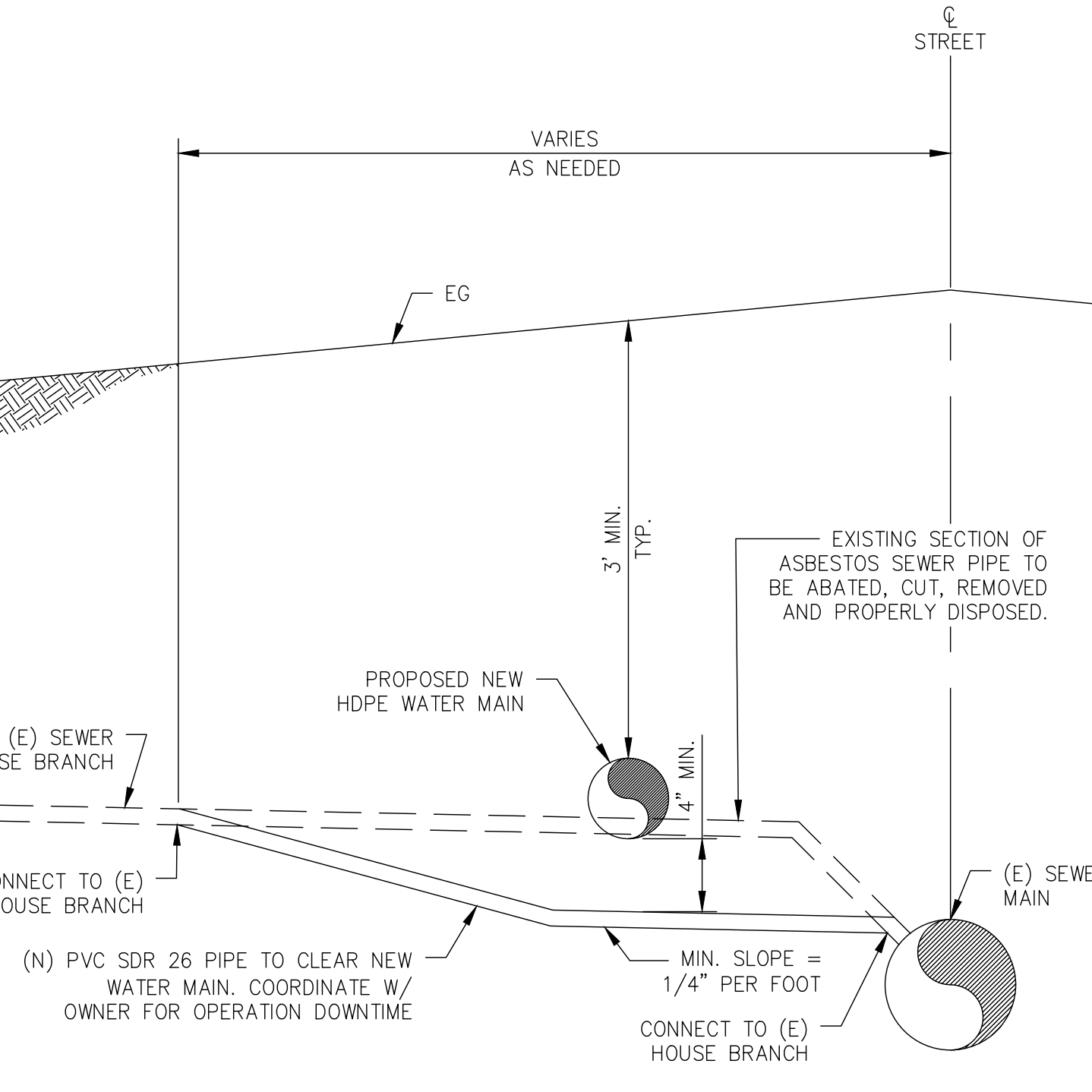
TABLE MUST BE RECALCULATED FOR EACH PROJECT BASED ON ASAE STANDARD S376-1

THRUST BLOCKS

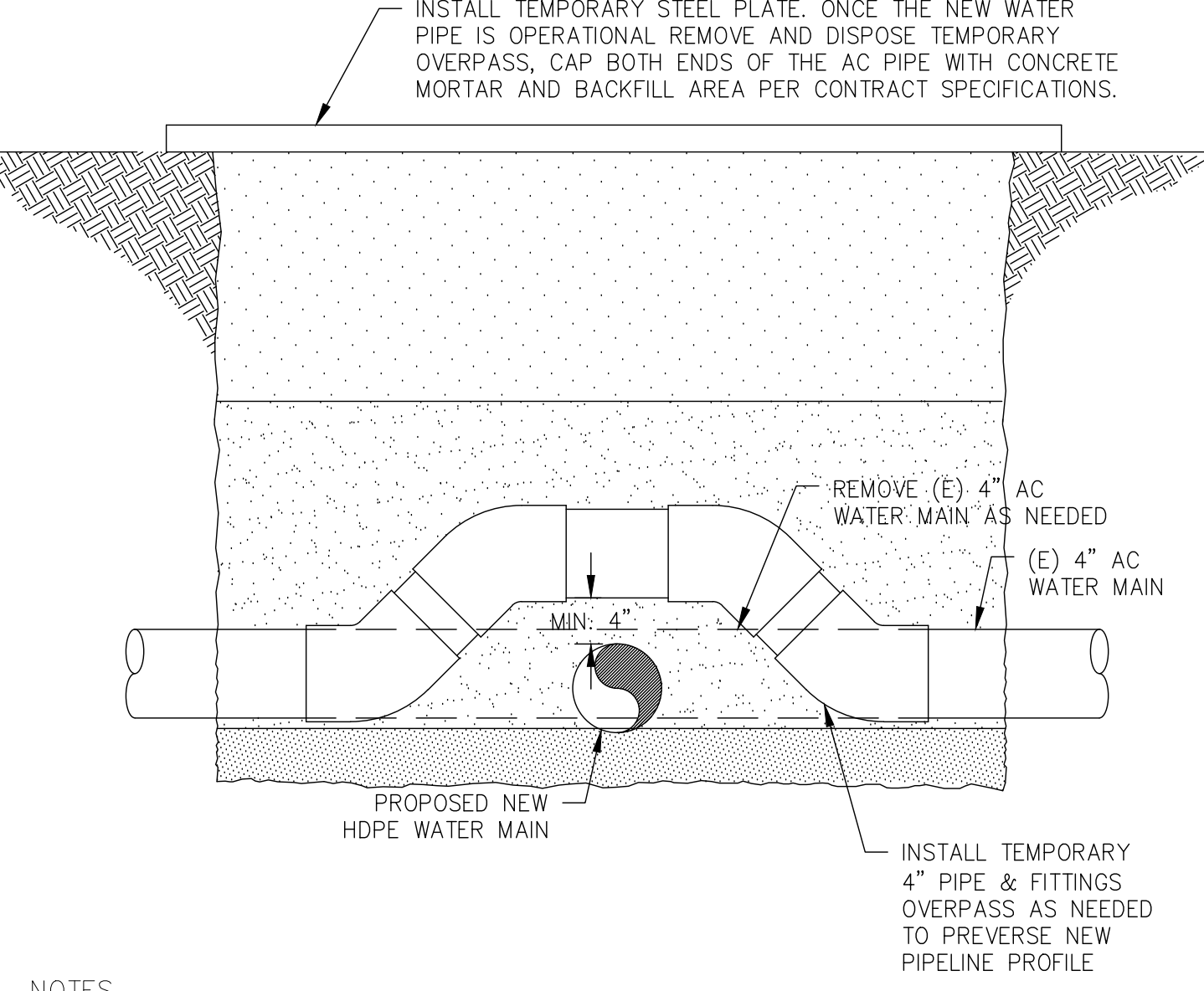


- MATERIALS SPECS**
- (A) BOX: OLDCASTLE B16 OR N16 BOX WITH CAST-IN-CORNER BRACKETS OR APPROVED EQUAL. LID: NICOR W/ THREAD FOR BADGER ORION OR APPROVED EQUAL. REFER TO SPECS
 - (B) CONNECT HDPE PIPE TO EXISTING SERVICE PIPE MATERIAL. DETAIL 2 SHEET CD-1
 - (C) EXISTING GALVANIZED OR COPPER PIPE. FIELD VERIFY DIAMETER AND MATERIAL.
 - (D) 1" PVC SCH 80 FEMALE ADAPTER SLIP BY THREAD
 - (E) 1" METER TAILPIECE PER SPECIFICATION: A.Y. McDONALD "NO LEAD" OR APPROVED EQUAL.
 - (F) 1" METER: COUNTY FURNISHED BADGER M70 W/ ENCODER
 - (G) 1" ANGLE METER STOP PER SPECIFICATIONS: A.Y. McDONALD "NO LEAD" OR APPROVED EQUAL
 - (H) PLACE 3/4" CRUSHED ROCK 6" DEEP. ALL BOXES SHALL BE ORIENTED WITH LONGER SIDE PERPENDICULAR TO THE ROAD/STREET
 - (I) 1" CONTINUOUS POLYETHYLENE TUBING
 - (J) 1" COMPRESSION DRESSER
 - (K) COUNTY FURNISHED BADGER ORION LTE ENDPOINT. MOUNT ENDPOINT TO LID PER SPECIFICATION
 - (L) 1" PVC SCH 80 TAIL PIECE
 - (M) HDPE ELECTROFUSION SADDLE W/ NECESSARY TRANSITION. 1" CORPORATION STOP PER SPECIFICATIONS: A.Y. McDONALD OR APPROVED EQUAL
 - (N) FOR APN: 113-202-06, 113-202-05, 113-202-04, 113-202-03, 113-202-02, 113-201-08, 113-203-09, 113-203-08, 113-203-07, 113-203-06, 113-203-05, 113-203-04, 113-203-03, AND 113-203-02 INSTALL 1" PRESSURE REDUCING VALVE WITHIN:
BOX: OLDCASTLE B09 BOX WITH CAST-IN-CORNER BRACKETS OR APPROVED EQUAL
LID: NICOR OR APPROVED EQUAL, REFER TO SPECS

1" WATER SERVICE INSTALLATION WITH METER AND METER BOX

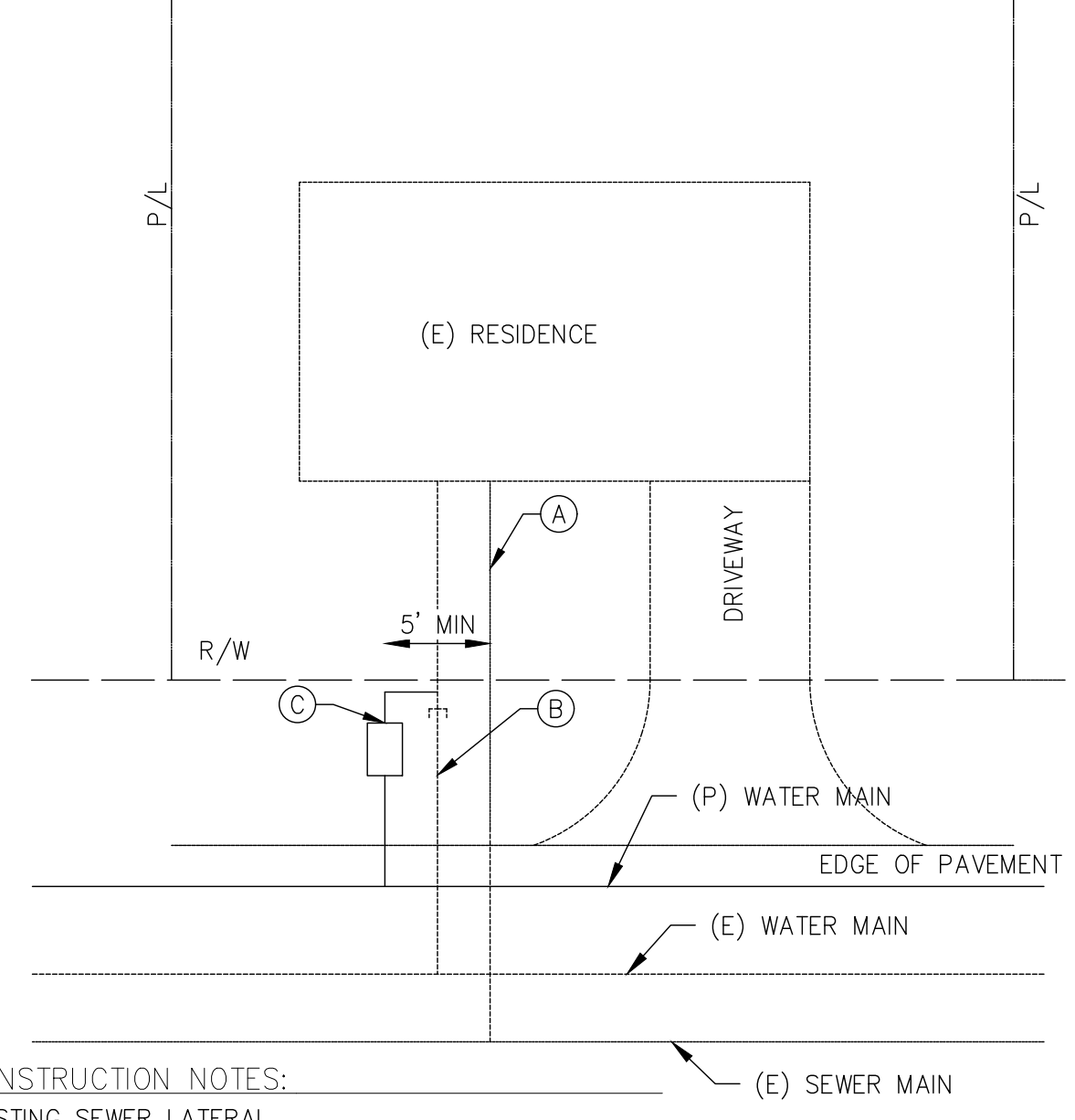


SEWER SERVICE BYPASS (IF NECESSARY)



- NOTES**
- CONTRACTOR MAY INSTALL NEW PIPELINE OVER OR UNDER EXISTING WATER LINE ONLY IF GOING OVER STILL PROVIDES 36 INCHES OF COVER OR GOING UNDER DOES NOT REQUIRE EXCAVATION INTO GRANITE ROCK, OTHERWISE INSTALL NEW PIPELINE PER THIS DETAIL.

TEMPORARY RELOCATION OF EXISTING WATER MAIN



- CONSTRUCTION NOTES:**
- (A) EXISTING SEWER LATERAL
 - (B) EXISTING WATER LATERAL
 - (C) PROPOSED WATER LATERAL. SEE DETAIL 5 THIS SHEET
- NOTES**
- 5' MINIMUM HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LATERAL.
 - 1' VERTICAL SEPARATION BETWEEN TOP OF SEWER AND BOTTOM OF WATER IF 5' MINIMUM HORIZONTAL SEPARATION CAN NOT BE ACHIEVED.

SEWER AND WATER SERVICE SEPARATION

DESIGNED:	DATE	RECORD DRAWING	DATE
KCS	10/16/24	RESIDENT ENGINEER	
KCS	10/16/24		
SA	10/16/24		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

SCALE

SUPERVISING ENGINEER

4/4/2024

DATE

PROJECT

CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT

ROAD NO. - BRIDGE NO.

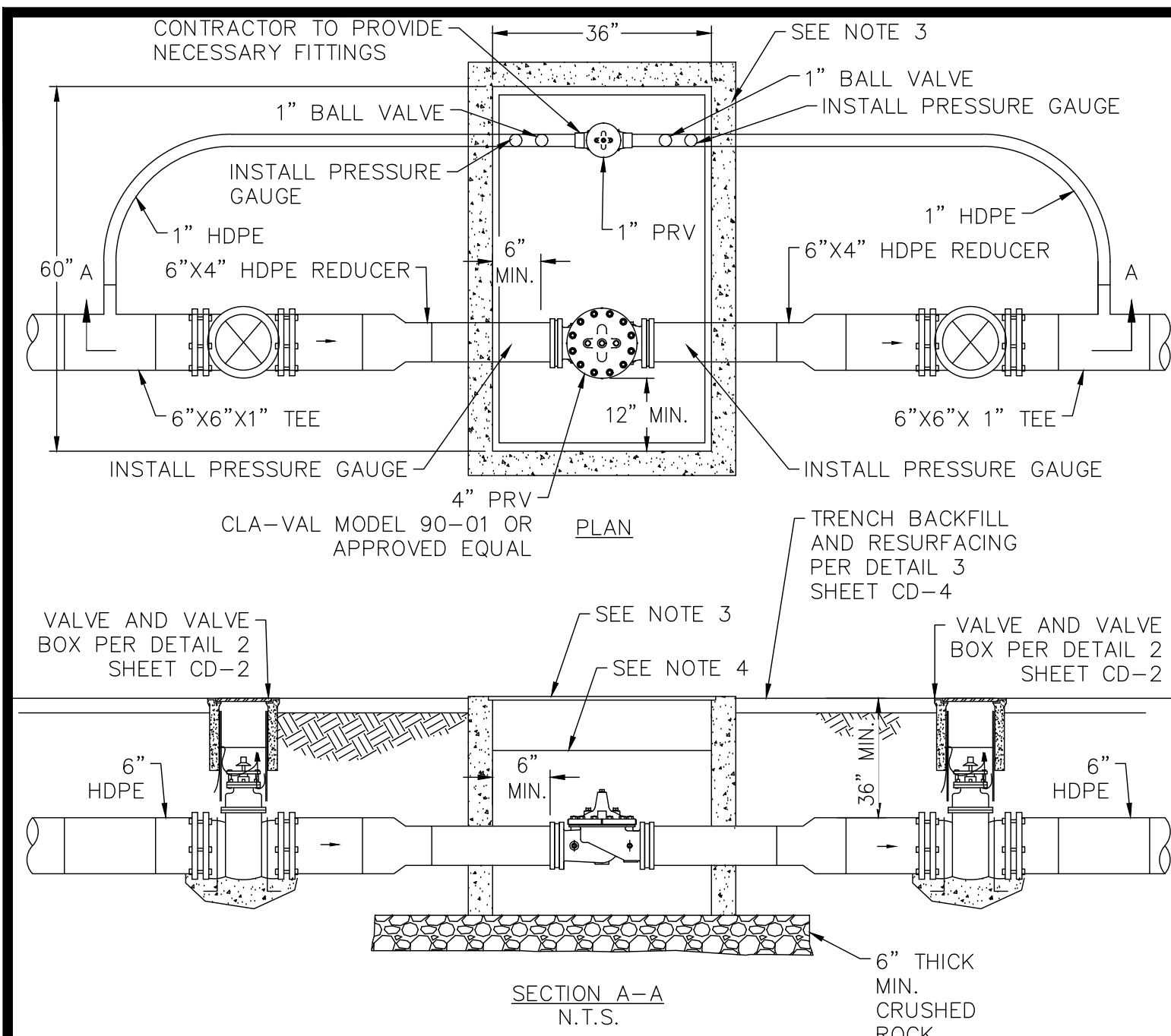
DEPARTMENT OF PUBLIC WORKS AND PLANNING

CONSTRUCTION DETAILS

CD-2

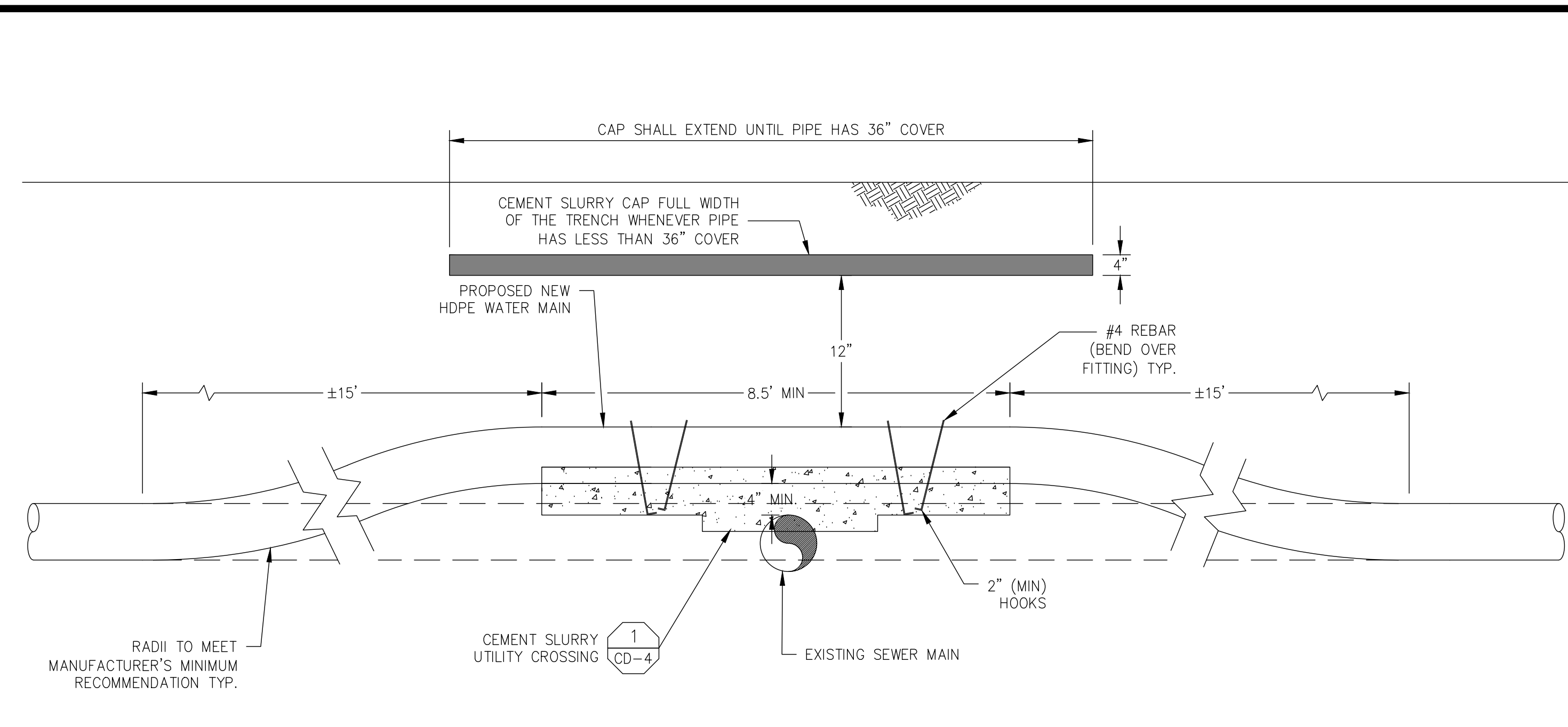
DRAWING NO. 11334 SHEET NO. 17 TOTAL 23

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCDWRG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\432360D\1002.DWG 10/16/2024 9:26 AM - SINGLETON, RICHARD



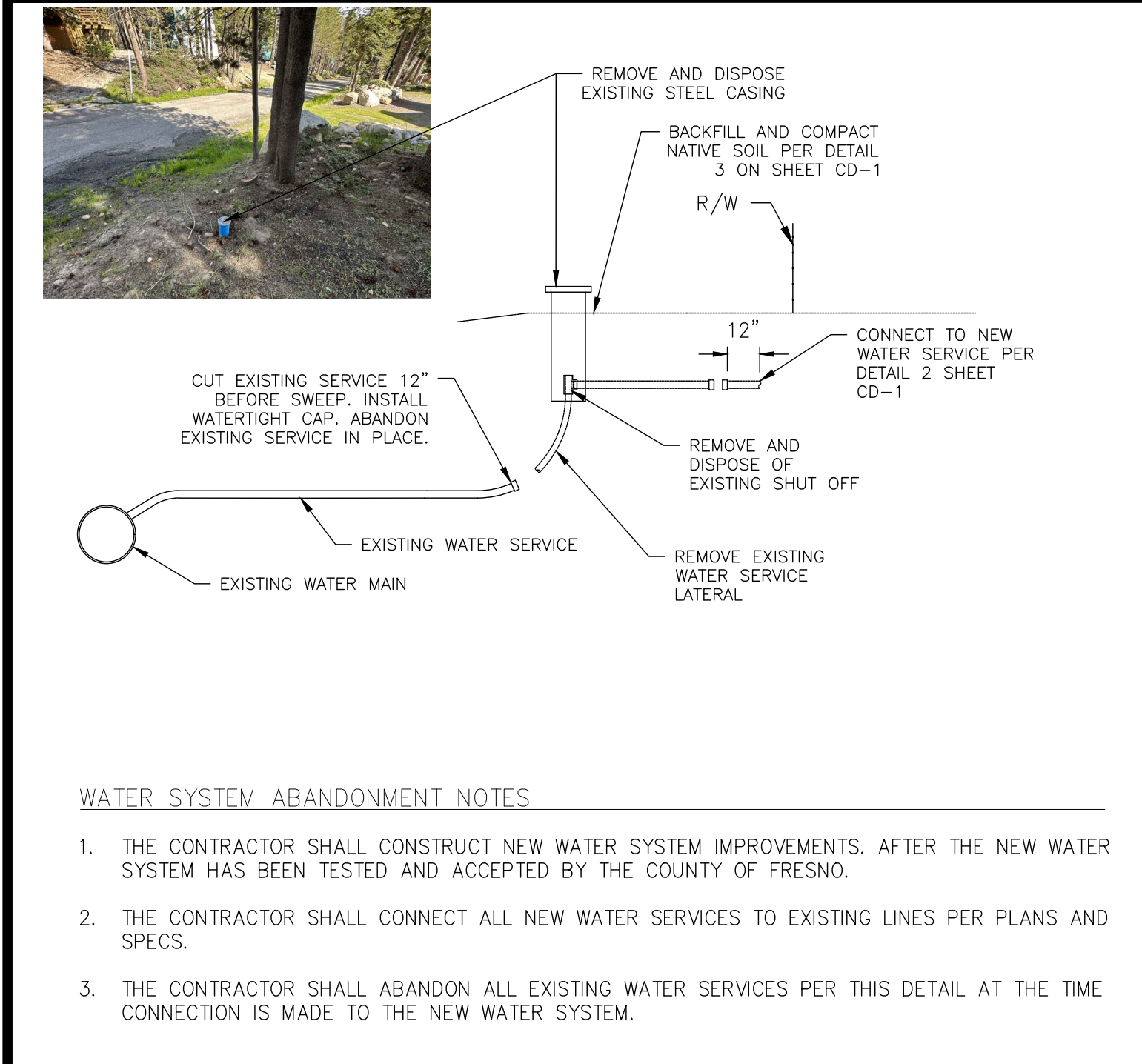
- NOTES:**
1. PRESSURE REDUCING VALVE TO UTILIZE H2O RATE LID AS SHOWN ON THE PLANS.
 2. N/A
 3. PRESSURE REDUCING VALVE SHALL BE A CHRISTY R SERIES R17P36 WITH EXTENSION WITH R17-52HT LID OR APPROVED EQUAL.
 4. INSTALL FOAM INSULATION IN PRESSURE REDUCING VALVE.
 5. WRAP AND INSTALL INSULATION ON THE TUBING OF PRESSURE REDUCING VALVE.

1
CD-3
4" PRESSURE REDUCING VALVE



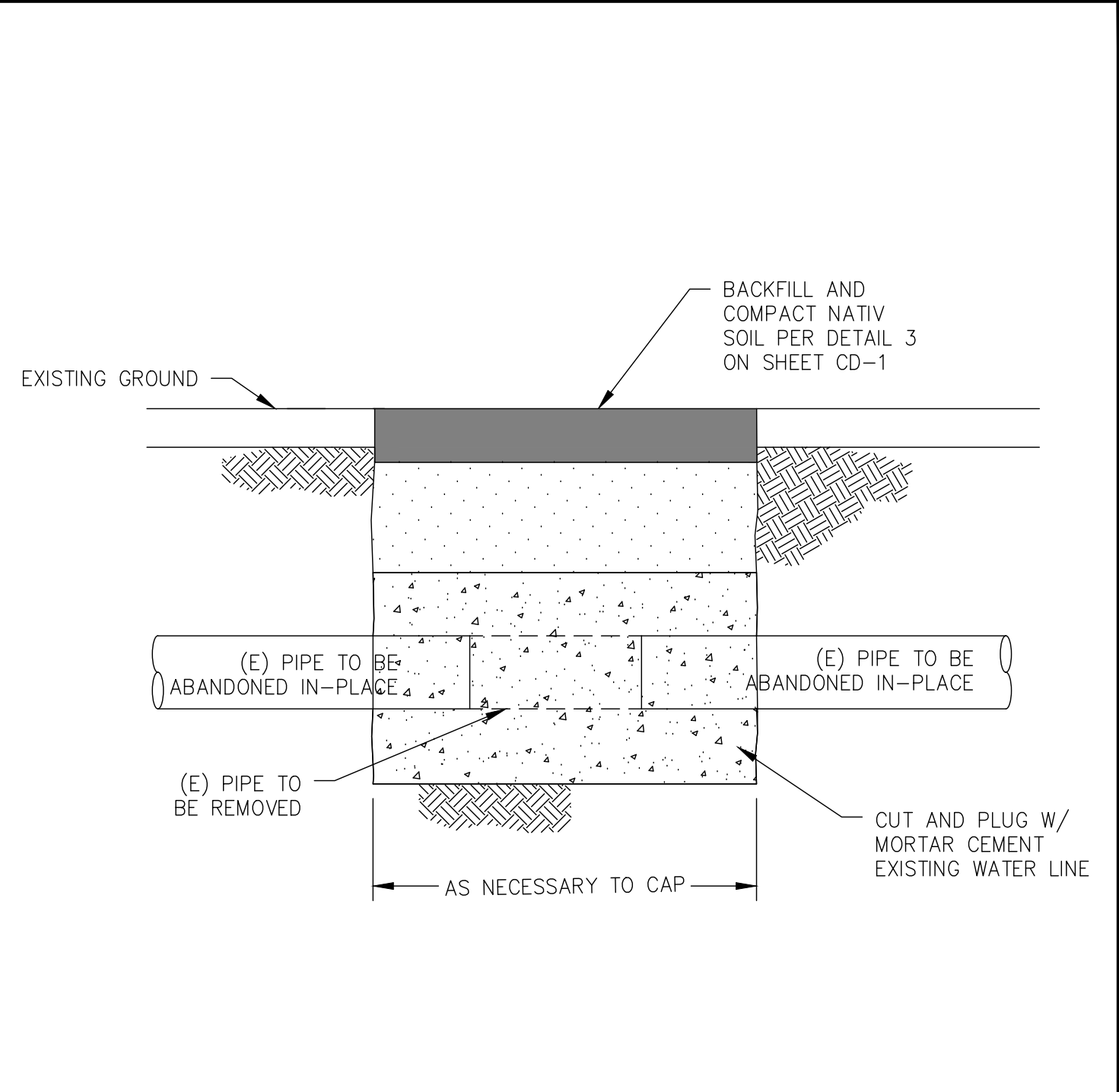
- NOTES:**
1. BACKFILL WITH CONTROL LOW STRENGTH MATERIAL (CLSM) CEMENT SLURRY PER THIS DETAIL IF WATER LINE CLEARANCE FROM TOP OF PIPE IS LESS THAN 36 INCHES.
 2. SEE DETAIL 1 ON SHEET CD-4 FOR CEMENT SLURRY BETWEEN CROSSING PIPES
 3. IF RADIUS OF OVERCROSSING DOES NOT MEET MANUFACTURERS MINIMUM RECOMMENDATIONS, CONTACT THE ENGINEER.

2
CD-3
SEWER MAIN OVER CROSSING

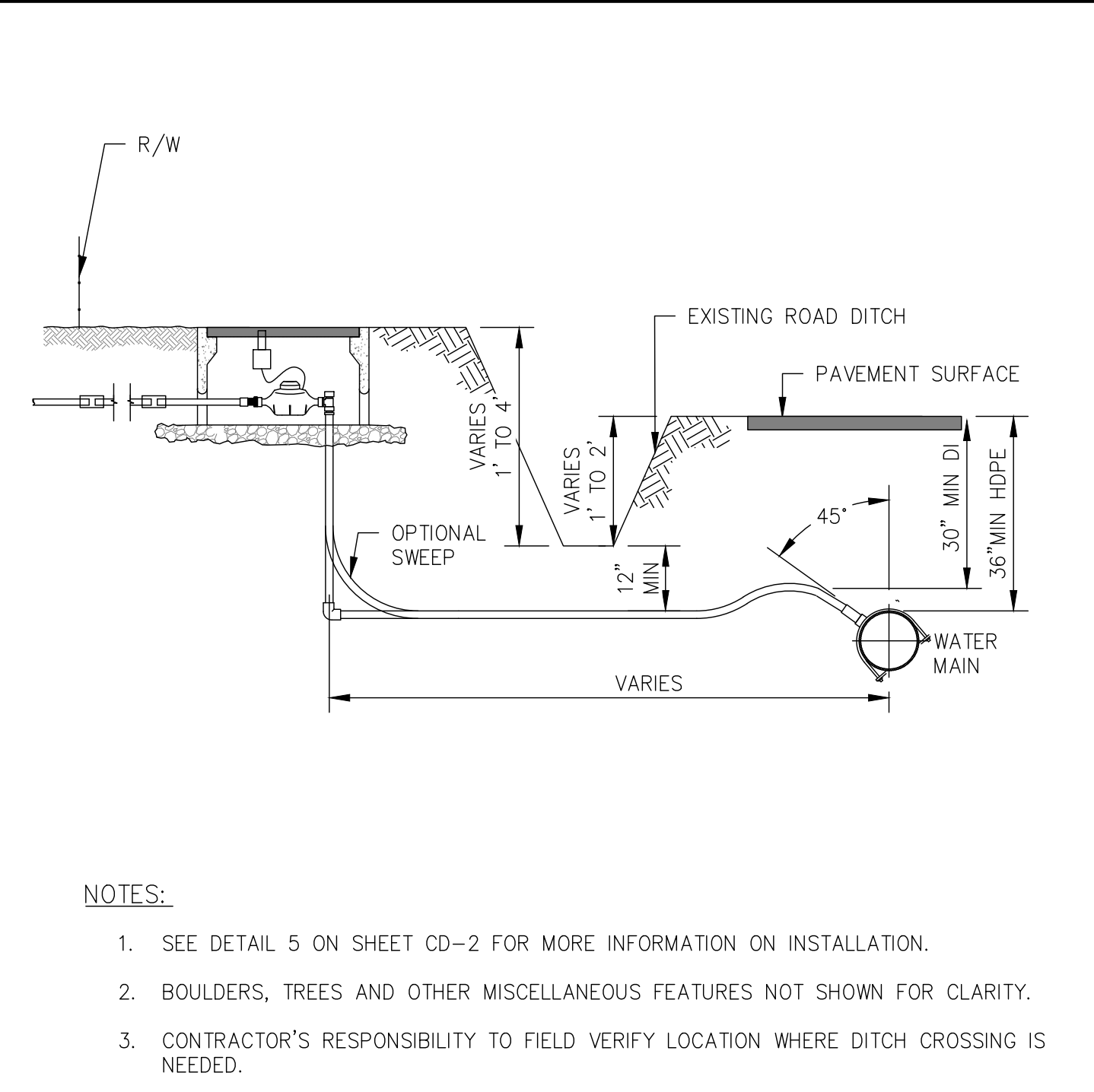


- WATER SYSTEM ABANDONMENT NOTES**
1. THE CONTRACTOR SHALL CONSTRUCT NEW WATER SYSTEM IMPROVEMENTS. AFTER THE NEW WATER SYSTEM HAS BEEN TESTED AND ACCEPTED BY THE COUNTY OF FRESNO.
 2. THE CONTRACTOR SHALL CONNECT ALL NEW WATER SERVICES TO EXISTING LINES PER PLANS AND SPECS.
 3. THE CONTRACTOR SHALL ABANDON ALL EXISTING WATER SERVICES PER THIS DETAIL AT THE TIME CONNECTION IS MADE TO THE NEW WATER SYSTEM.

5
CD-3
WATER SERVICE ABANDONMENT DETAIL

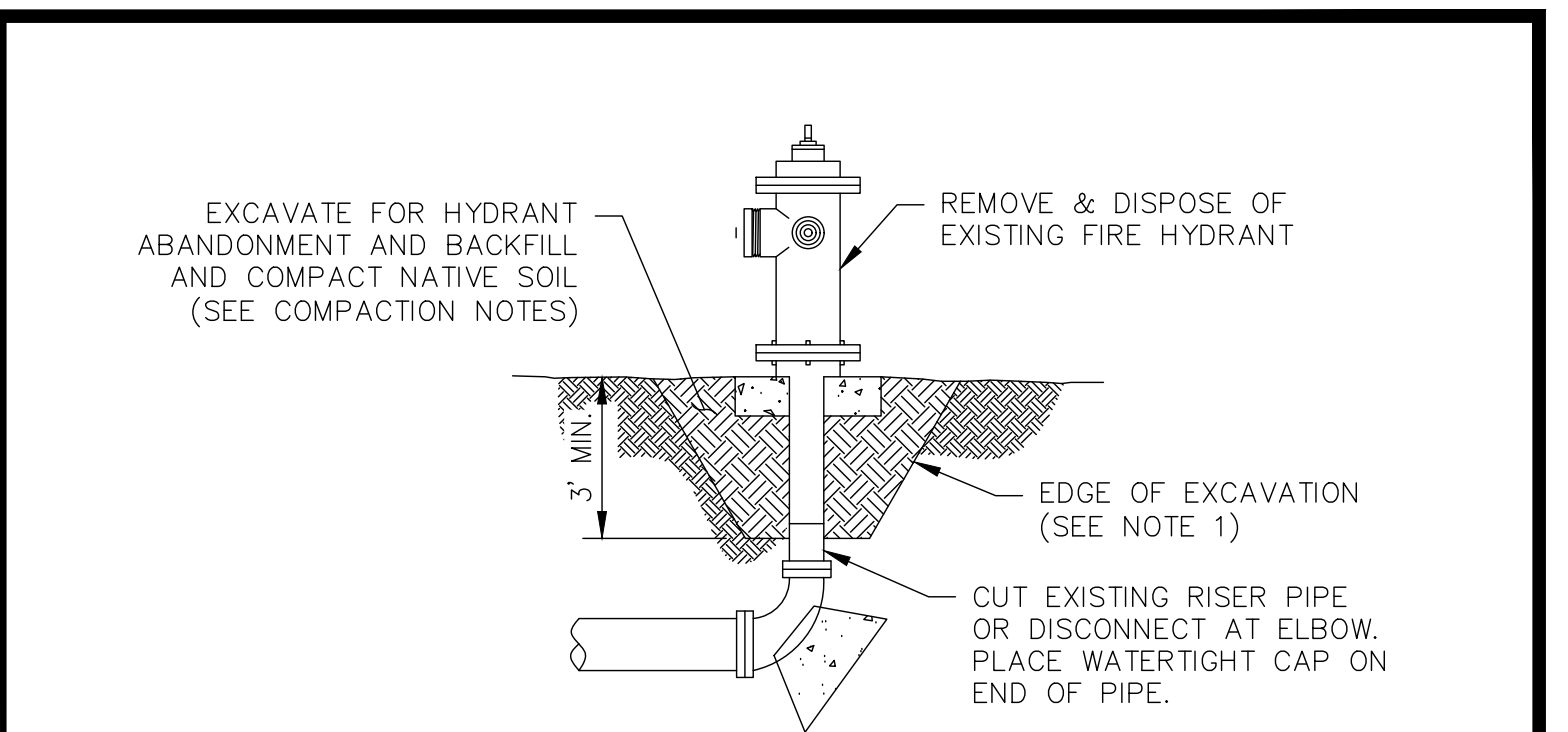


6
CD-3
PIPE ABANDONMENT DETAIL



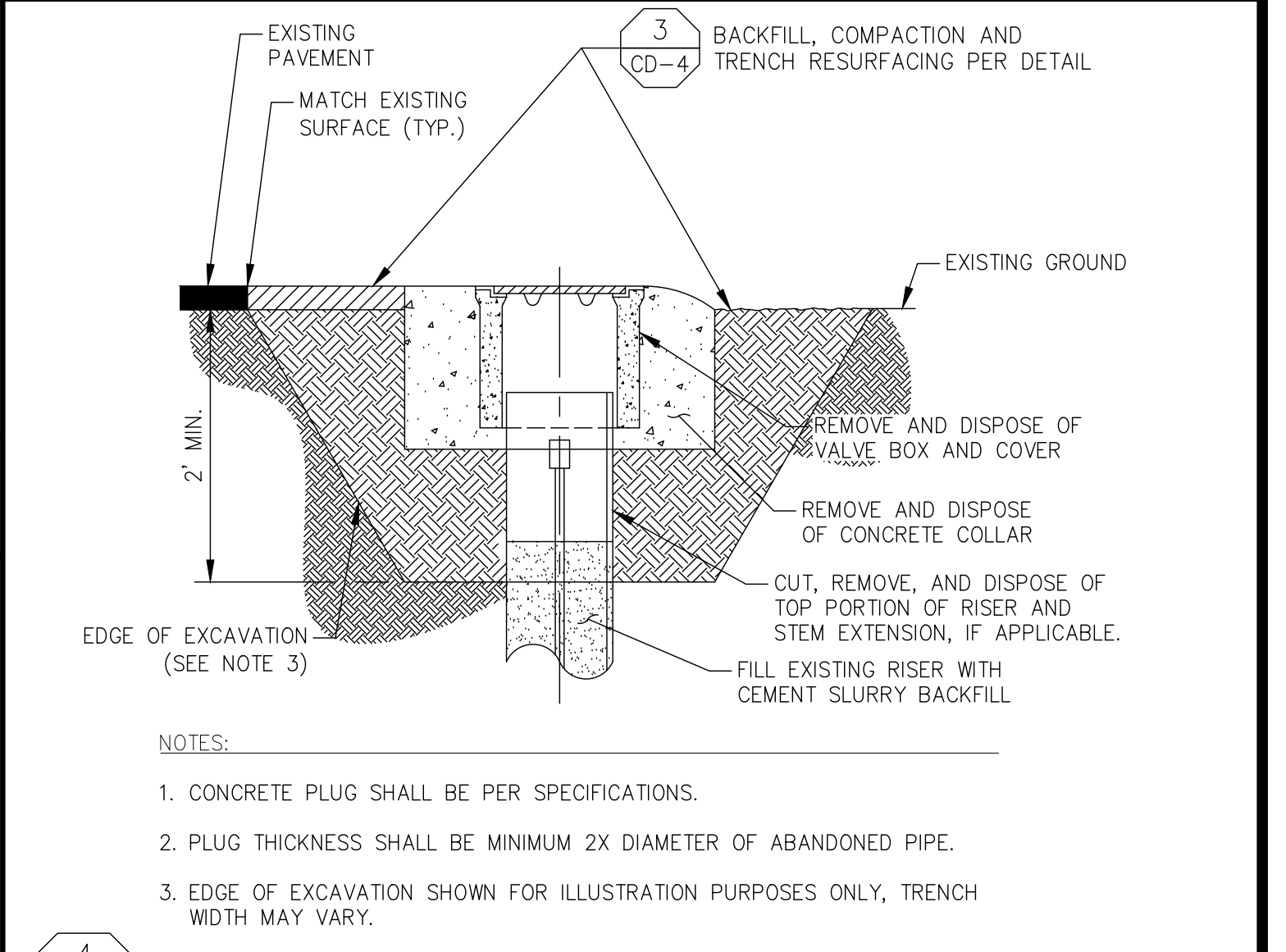
- NOTES:**
1. SEE DETAIL 5 ON SHEET CD-2 FOR MORE INFORMATION ON INSTALLATION.
 2. BOULDERS, TREES AND OTHER MISCELLANEOUS FEATURES NOT SHOWN FOR CLARITY.
 3. CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION WHERE DITCH CROSSING IS NEEDED.

7
CD-3
1" WATER SERVICE WITH METER AND METER BOX DITCH CROSSING



- NOTES:**
1. EDGE OF EXCAVATION SHOWN FOR ILLUSTRATION PURPOSES ONLY, TRENCH WIDTH MAY VARY.
 2. IF THE FIRE HYDRANT HAS PROTECTIVE BOLLARDS THEY ARE TO BE REMOVED AS WELL INCLUDING CONCRETE FOOTING, AND BACKFILLED.

3
CD-3
FIRE HYDRANT ABANDONMENT



- NOTES:**
1. CONCRETE PLUG SHALL BE PER SPECIFICATIONS.
 2. PLUG THICKNESS SHALL BE MINIMUM 2X DIAMETER OF ABANDONED PIPE.
 3. EDGE OF EXCAVATION SHOWN FOR ILLUSTRATION PURPOSES ONLY, TRENCH WIDTH MAY VARY.

4
CD-3
WATER VALVE BOX ABANDONMENT & REMOVAL

DESIGNED: KCS		DATE: 10/16/24	
DRAWN: KCS		DATE: 10/16/24	
CHECKED: SA		DATE: 10/16/24	

SCALE

SUPERVISING ENGINEER

4/4/2024
DATE

PROJECT

CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT

ROAD NO. - BRIDGE NO.

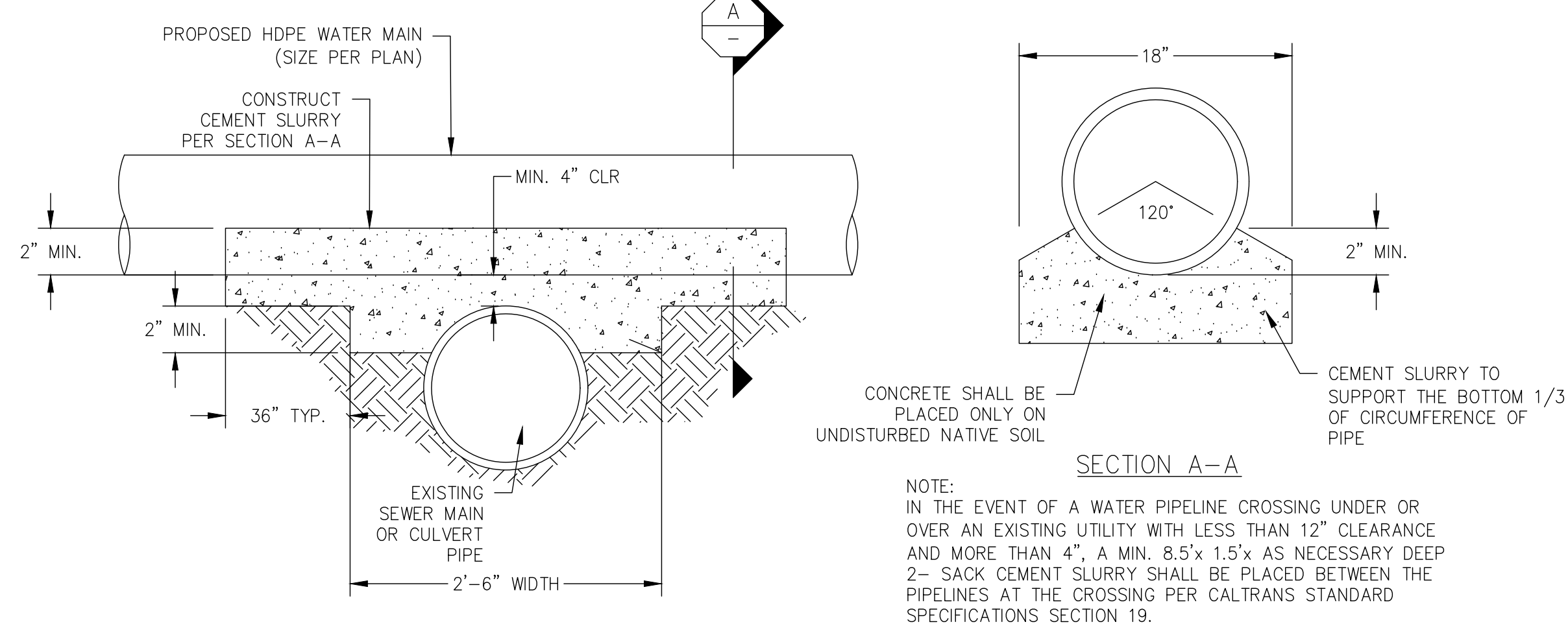
DEPARTMENT OF PUBLIC WORKS AND PLANNING

CONSTRUCTION DETAILS

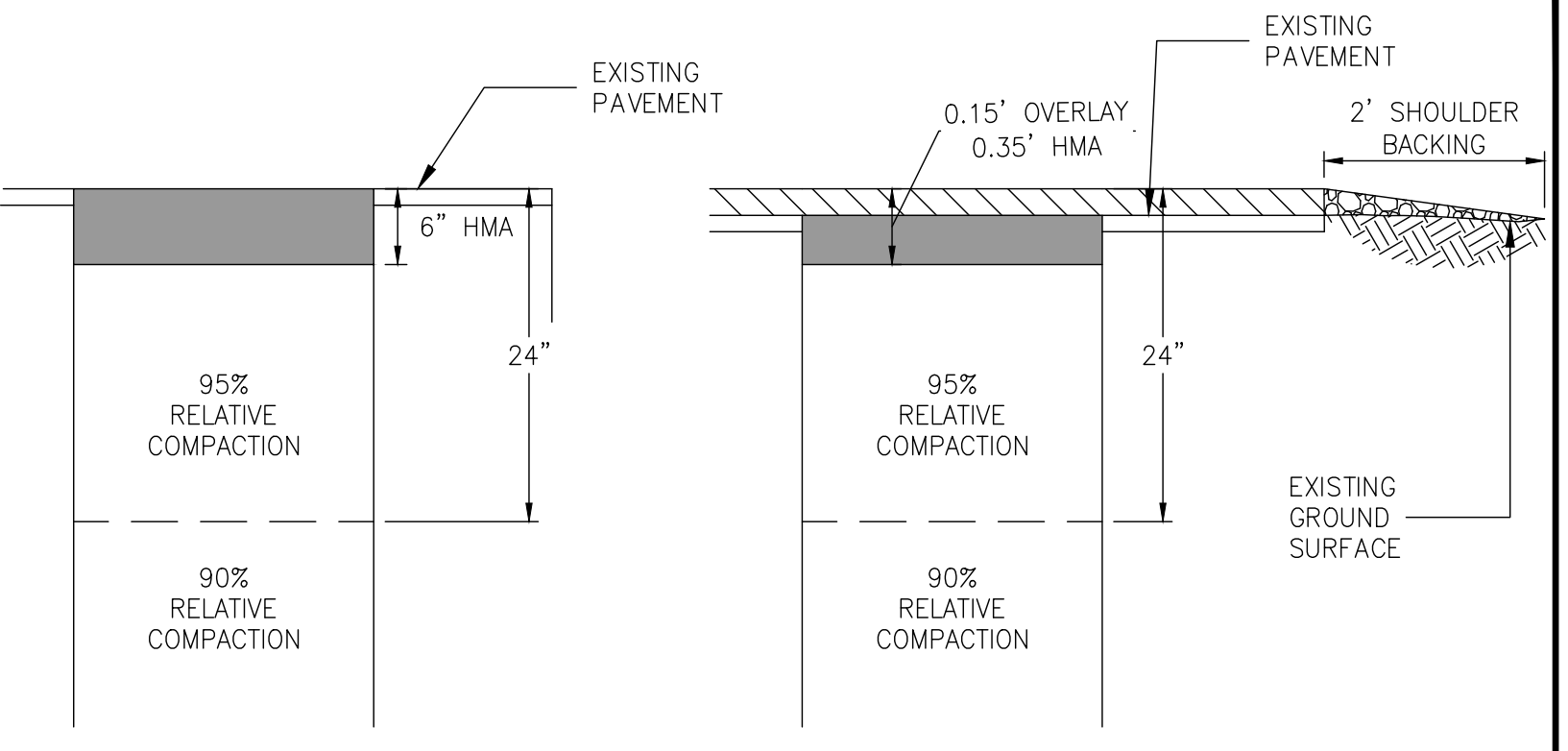
CD-3

DRAWING NO. 11334 SHEET NO. 18A TOTAL 23

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCD\WRG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\432360D\T02.DWG 10/16/2024 9:27 AM - SINGLETON, RICHARD



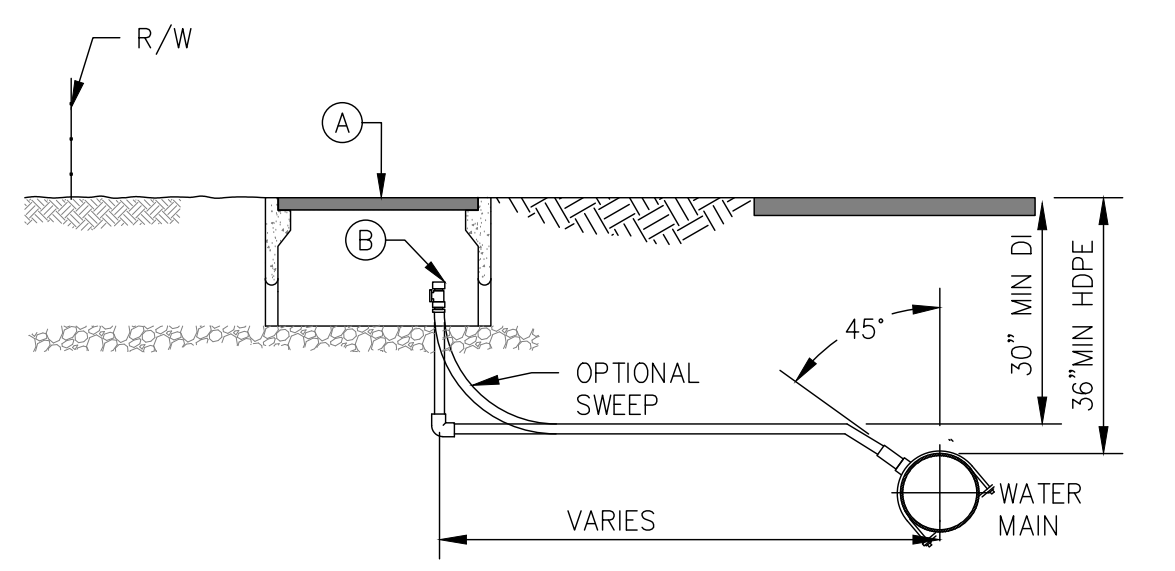
1
CD-4
CEMENT SLURRY UTILITY CROSSING



A STRUCTURAL SECTION SCALE: N.T.S.
B STRUCTURAL SECTION SCALE: N.T.S.

- NOTE:
- HMA = HOT MIX ASPHALT PER CONTRACT SPECIFICATION
 - IF THERE IS LESS THAN 2 FEET BETWEEN THE EDGE OF A TRENCH CUT AND A CONCRETE IMPROVEMENT, OR EDGE OF PAVING, THEN REMOVE AND REPLACE THE ASPHALT CONCRETE PAVEMENT FROM THE EDGE OF THE TRENCH CUT TO THE CONCRETE IMPROVEMENT, OR EDGE OF PAVING.
 - COMPACT PER CALTRANS STANDARD SPECIFICATIONS SECTION 19. PLACE HMA PER CALTRANS STANDARD SPECIFICATIONS SECTION 39.
 - IF OVERLAY ADDITIVE BID IS AWARDED, STRUCTURAL SECTION B WILL BE INSTALLED. IF NOT AWARDED, STRUCTURAL SECTION A WILL BE INSTALLED.

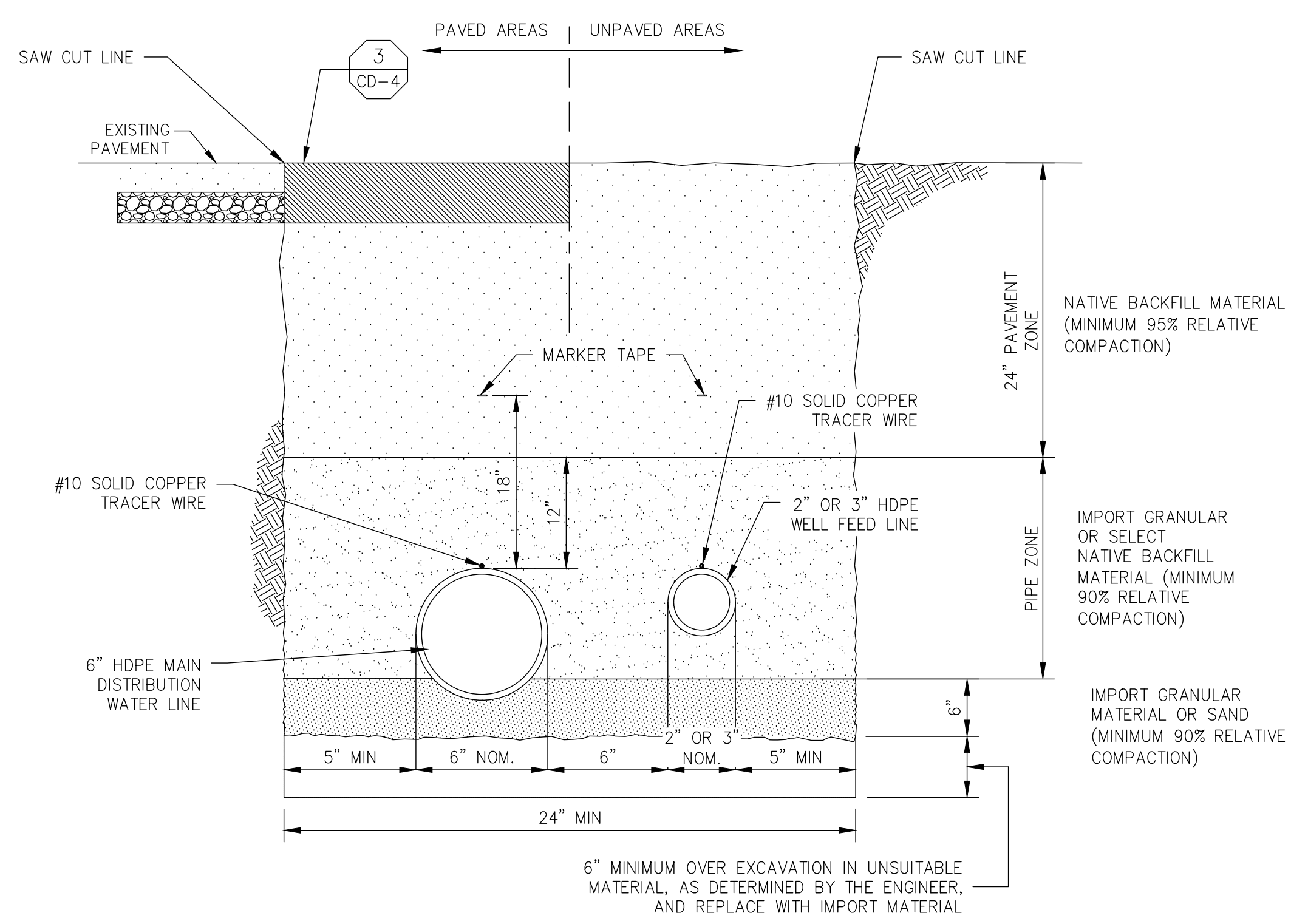
3
CD-4
TRENCH BACKFILL AND RESURFACING



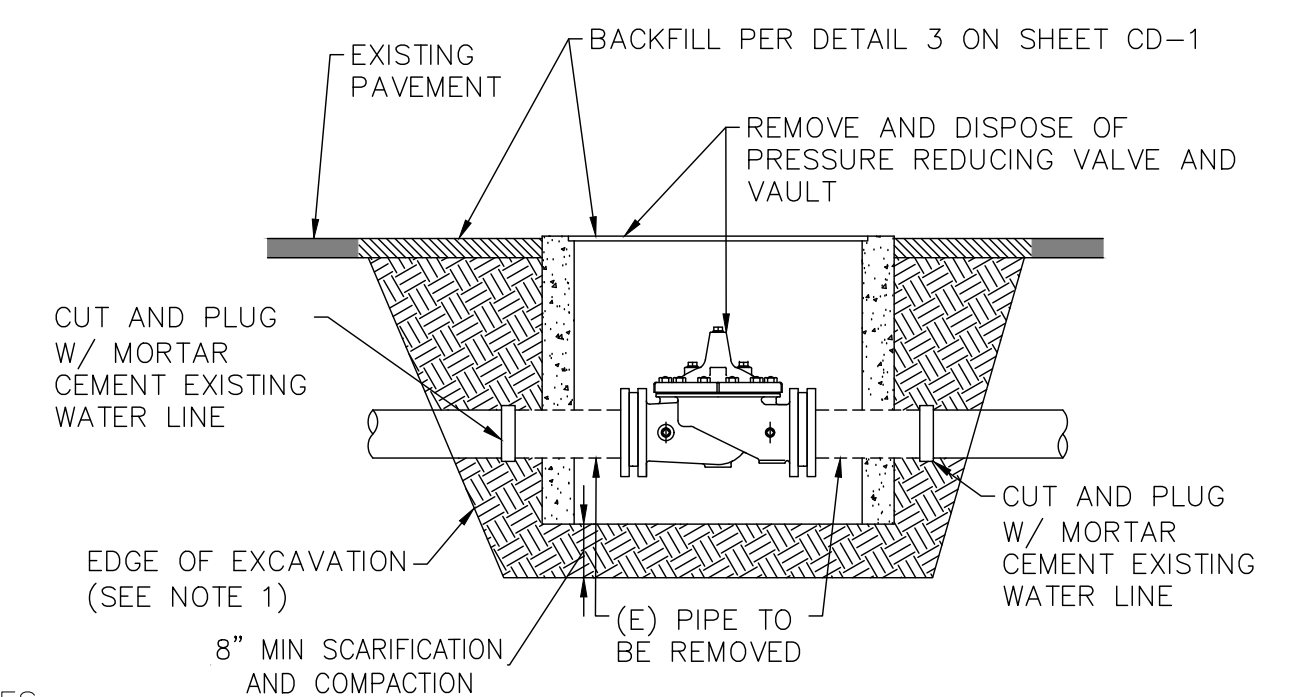
- NOTES:
- SEE DETAIL 5 ON SHEET CD-2 FOR MORE INFORMATION ON INSTALLATION

- MATERIALS SPECS
- (A) BOX: OLDCASTLE B16 OR N16 BOX WITH CAST-IN-CORNER BRACKETS OR APPROVED EQUAL. LID: NICOR W/ THREAD FOR BADGER ORION OR APPROVED EQUAL. REFER TO SPECS
 - (B) 1" ANGLE METER STOP: A.Y. McDONALD "NO LEAD" OR APPROVED EQUAL CAP FOR FUTURE METER CONNECTION

4
CD-4
1" WATER SERVICE INSTALLATION WITH METER BOX FOR EMPTY LOTS



2
CD-4
NEW PIPE DISTRIBUTION MAIN AND WELL # 1 AND 3 FEED LINE

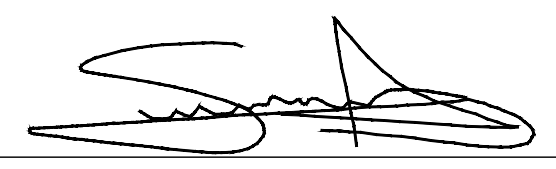


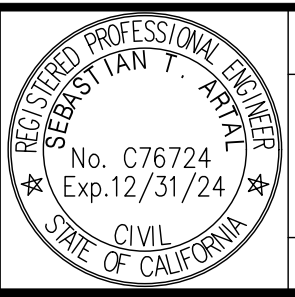
- NOTES:
- EDGE OF EXCAVATION SHOWN FOR ILLUSTRATION PURPOSES ONLY, TRENCH WIDTH AND DEPTH MAY VARY.
 - EXISTING PIPE TO BE ABANDONED IN-PLACE.

5
CD-4
PRESSURE REDUCING VALVE AND VAULT REMOVAL

DESIGNED:	DATE	RECORD DRAWING	SCALE
KCS	10/16/24	RESIDENT ENGINEER	
DRAWN:	10/16/24		
CHECKED:	10/16/24		

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.


 SUPERVISING ENGINEER
 DATE: 4/4/2024

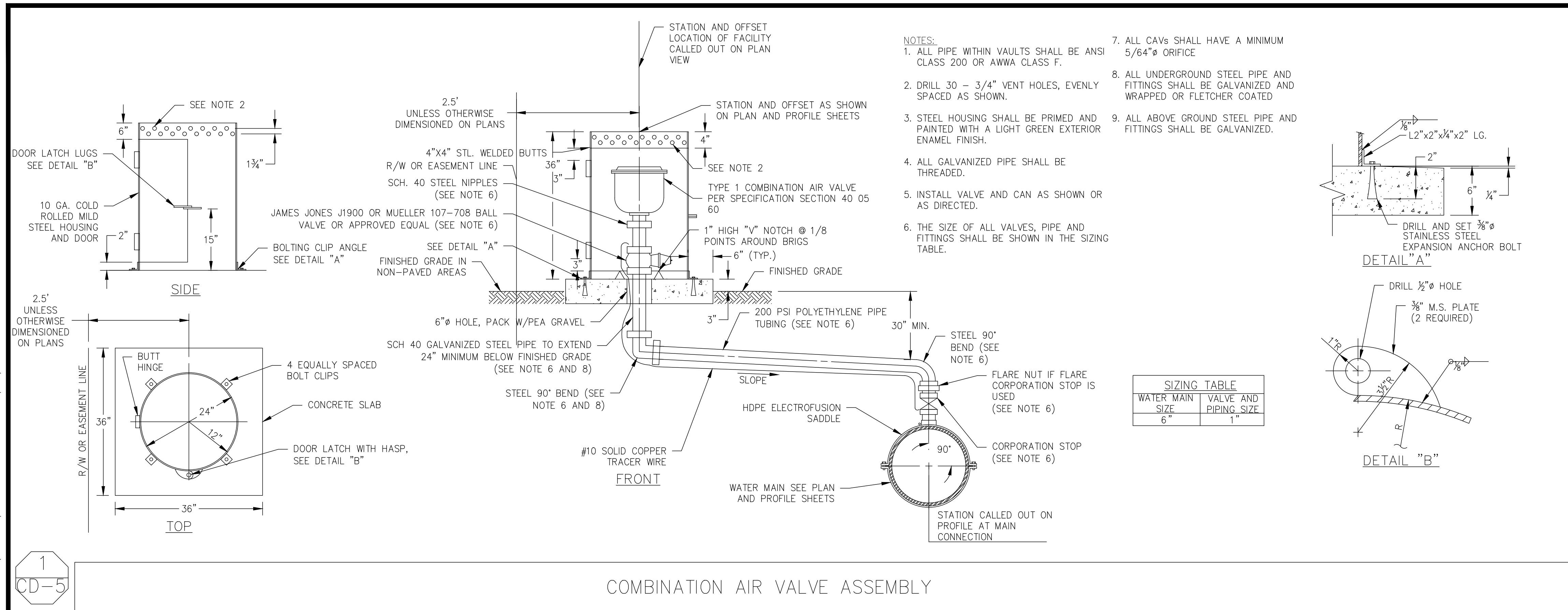


PROJECT
CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT
 ROAD NO. - BRIDGE NO.



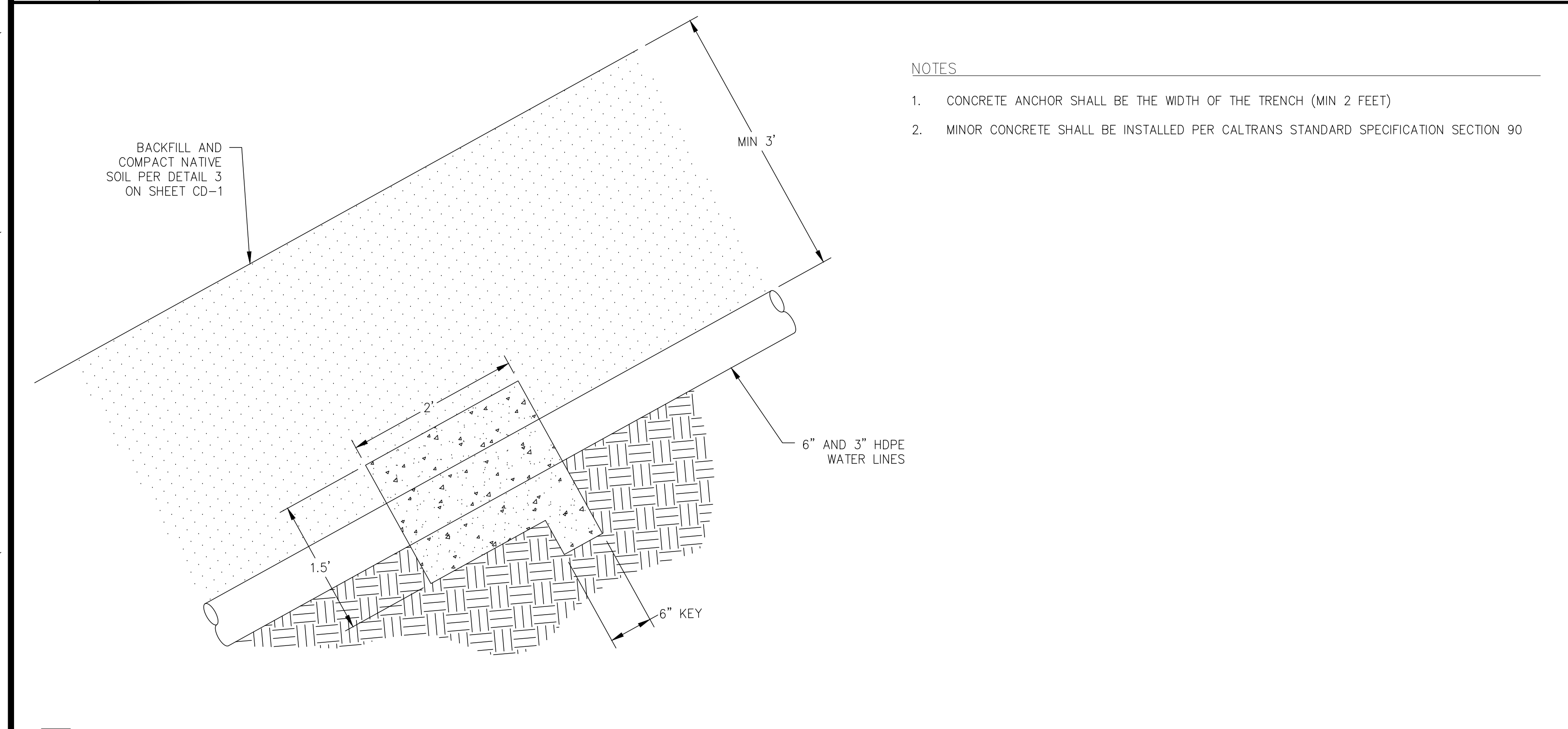
DEPARTMENT OF PUBLIC WORKS AND PLANNING
CONSTRUCTION DETAILS
 CD-4
 DRAWING NO. 11334 SHEET NO. 19 TOTAL 23

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCIDWRG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\432360D1002.DWG 10/16/2024 9:27 AM - SINGLETON, RICHARD



1
CD-5

COMBINATION AIR VALVE ASSEMBLY



2
CD-5

CONCRETE ANCHOR
(WATER LINE D AND E)

DESIGNED:	DATE	RECORD DRAWING		SCALE	 SUPERVISING ENGINEER	4/4/2024 DATE
KCS	10/16/24	RESIDENT ENGINEER	DATE			
KCS	10/16/24					
SA	10/16/24					

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

811
Know what's below.
Call before you dig.

PROJECT
CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT

DEPARTMENT OF PUBLIC WORKS AND PLANNING
CONSTRUCTION DETAILS
CD-5

ROAD NO. -	BRIDGE NO.
DRAWING NO. 11334	SHEET NO. 20
TOTAL 23	

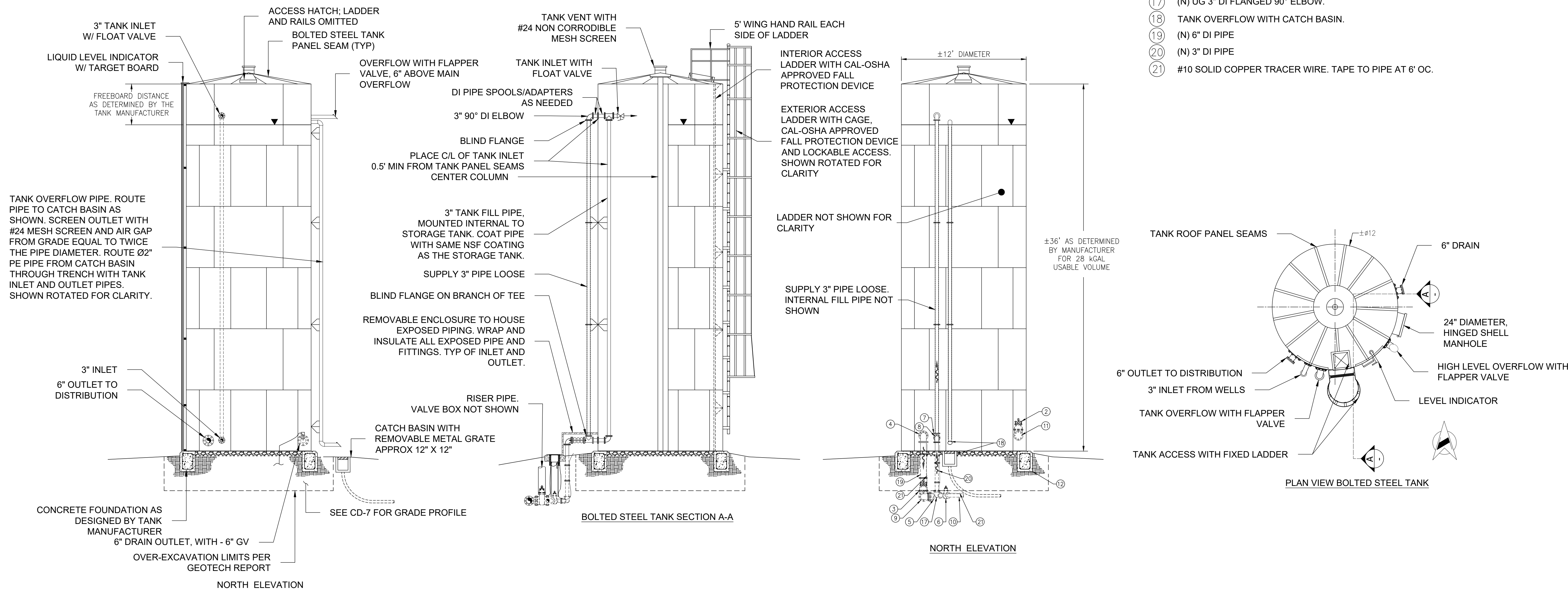
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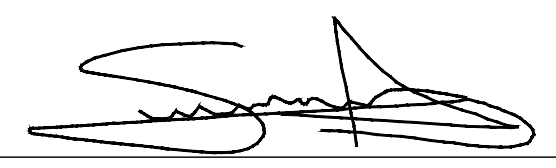


NOTES:

1. ORIENTATION OF TANK ACCESSORIES, INLETS, DRAINS AND OUTLETS ARE DIAGRAMMATIC ONLY. PREFERRED ORIENTATION IS DEPICTED IN CONSTRUCTION DETAILS CD-6.
2. N/A
3. N/A
4. LOCATE INLET FLOAT VALVE ADJACENT TO THE ACCESS OPENING.
5. SLOPE FG AWAY PER SHEET CD-7.
6. TANK VENT TO BE EQUIPPED WITH #24 MESH, NON-CORRODIBLE SCREEN, PER EPA.
7. ALL CHEMICALS USED IN THE WATER SYSTEM, INCLUDING CHLORINE SHALL BE CERTIFIED UNDER NSF/ANSI STANDARDS 60.
8. ALL MATERIALS THAT COME INTO CONTACT WITH WATER SHALL BE LEAD FREE AND NSF/ANSI STANDARD 61 CERTIFIED TO DEMONSTRATE MATERIAL DOES NOT LEACH ANY CONTAMINANTS INTO THE DRINKING WATER.
9. CONTRACTOR SHALL FOLLOW ALL SITE PREPARATION RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT.
10. WRAP AND INSULATE ALL EXPOSED PIPE, FITTINGS, VALVES, DRAINS AND OVERFLOW PIPE.

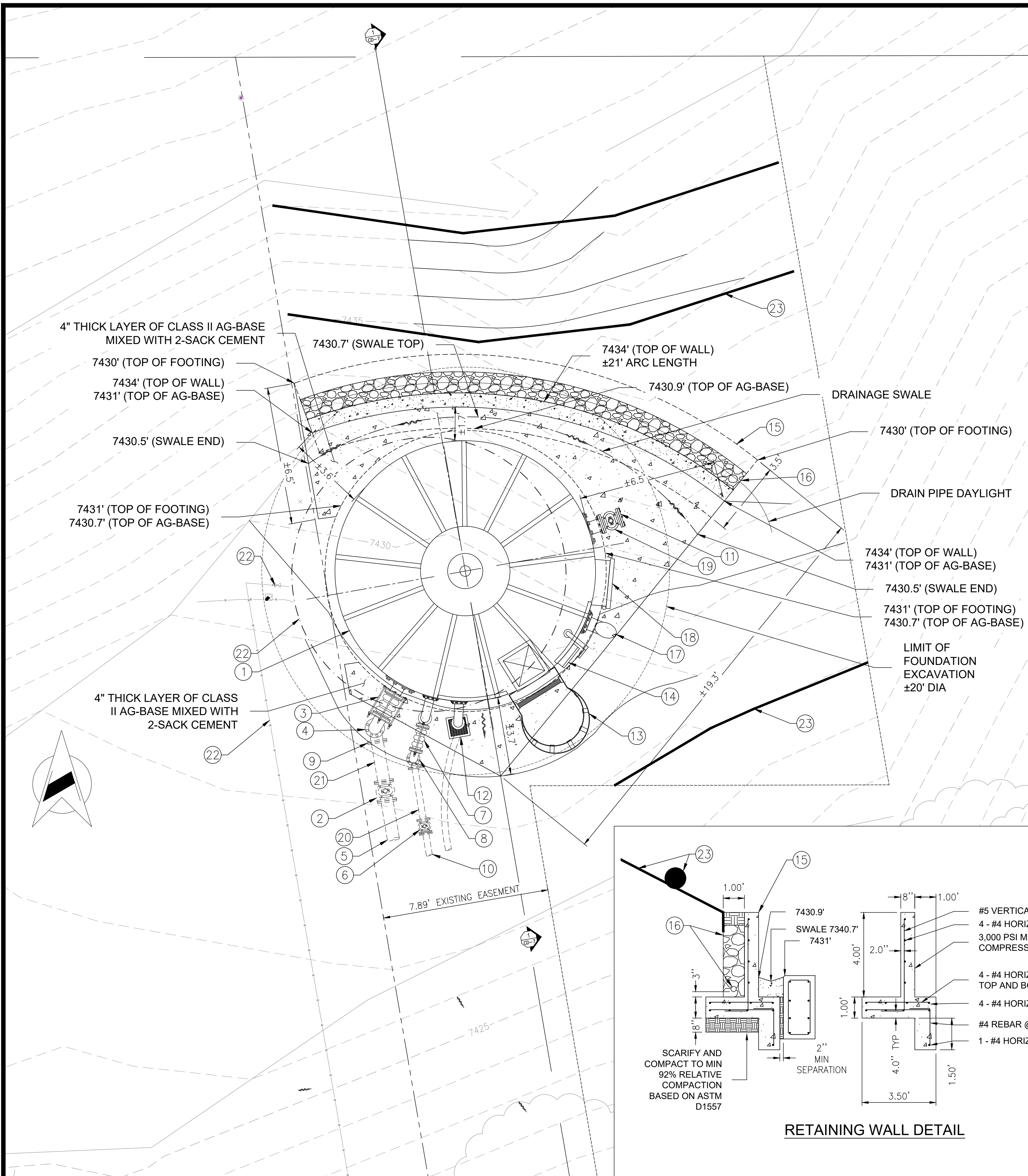
REFERENCE NOTES

- ① INSTALL NEW ± 28,000 GAL BOLTED WATER STORAGE TANK.
- ② (N) 6" DI RESILIENT WEDGE GATE VALVES WITH OPERATOR NUT.
- ③ (N) UG 6" DI RESILIENT WEDGE GATE VALVE WITH OPERATOR NUT. SEE DETAIL 3/CD-2.
- ④ (N) 6" DI FLANGED 90° ELBOW.
- ⑤ INSTALL NEW UG 6", DR11, C906 HDPE PIPE. SEE SHEET L-6 FOR WATER LINE ALIGNMENT.
- ⑥ (N) UG 3" DI RESILIENT WEDGE GATE VALVE WITH OPERATOR NUT. SEE DETAIL 3/CD-2.
- ⑦ (N) 3" DI TEE WITH BLIND FLANGE INSTALLED ON BRANCH SIDE.
- ⑧ (N) 3" DI FLANGED 90° ELBOW.
- ⑨ (N) UG 6" DI MECHANICAL JOINT 90° ELBOW.
- ⑩ INSTALL NEW UG 3", DR11, C901 HDPE PIPE. SEE SHEET L-7 FOR WATER LINE ALIGNMENT.
- ⑪ (N) 6" DI BLIND FLANGE FOR GATE VALVE.
- ⑫ TANK FOUNDATION. NOTE DEPTH OF FOUNDATION IN TANK PROFILE VIEW, PAGE CD-7.
- ⑬ N/A
- ⑭ N/A
- ⑮ N/A
- ⑯ N/A
- ⑰ (N) UG 3" DI FLANGED 90° ELBOW.
- ⑱ TANK OVERFLOW WITH CATCH BASIN.
- ⑲ (N) 6" DI PIPE
- ⑳ (N) 3" DI PIPE
- ㉑ #10 SOLID COPPER TRACER WIRE. TAPE TO PIPE AT 6' OC.



DESIGNED: KCS	DATE: 10/16/24	RECORD DRAWING		SCALE	 SUPERVISING ENGINEER DATE: 4/4/2024	 No. C76724 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA	PROJECT	 DEPARTMENT OF PUBLIC WORKS AND PLANNING CONSTRUCTION DETAILS CD-6
DRAWN: KCS	DATE: 10/16/24	RESIDENT ENGINEER	DATE	CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT				
CHECKED: SA	DATE: 10/16/24			ROAD NO. - BRIDGE NO.				
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.				DRAWING NO. 11334 SHEET NO. 21 TOTAL 23				

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCD\DWG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\432360D\T01SA.DWG 10/22/2024 1:28 PM - SINGLETON, RICHARD

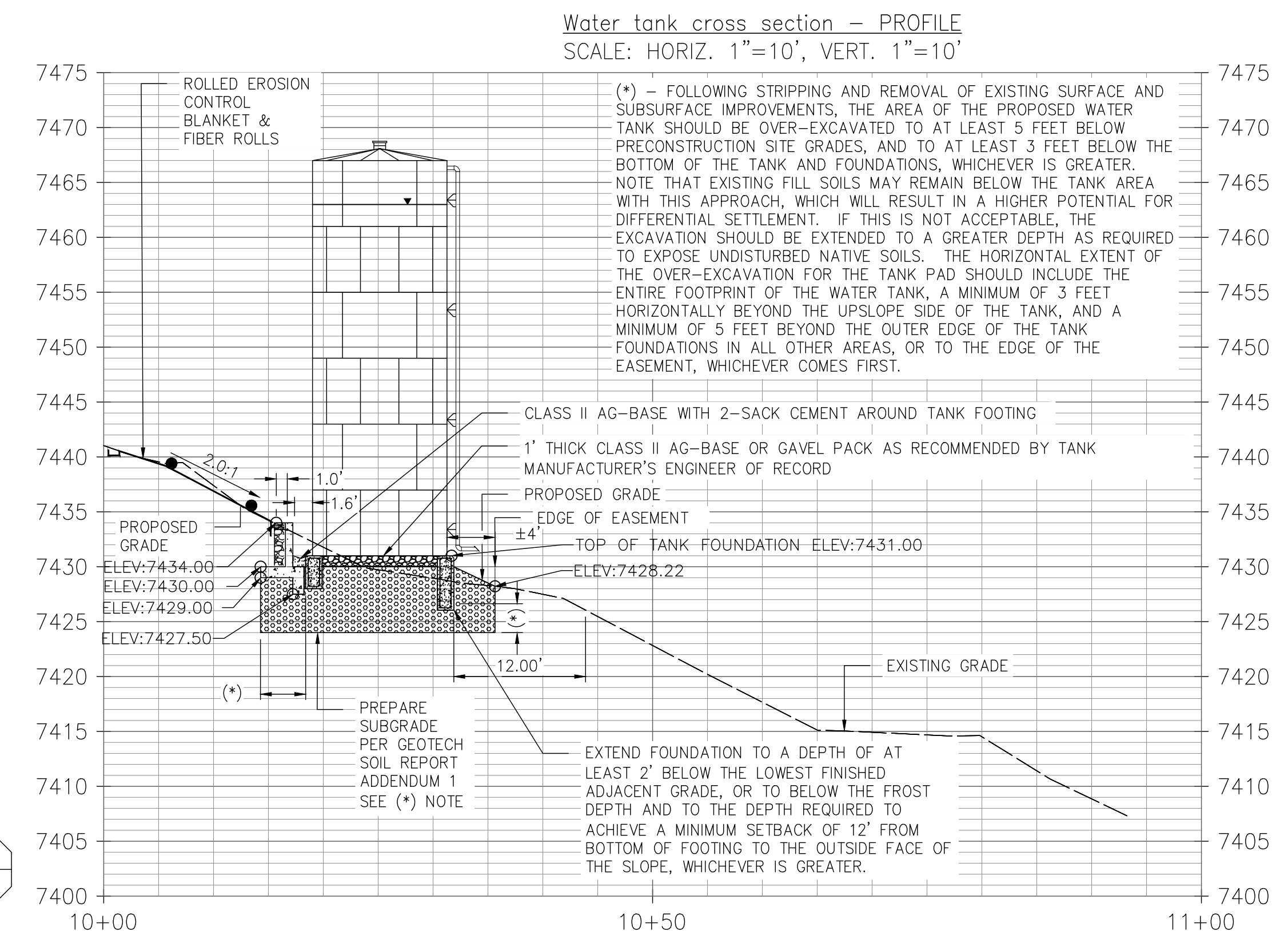
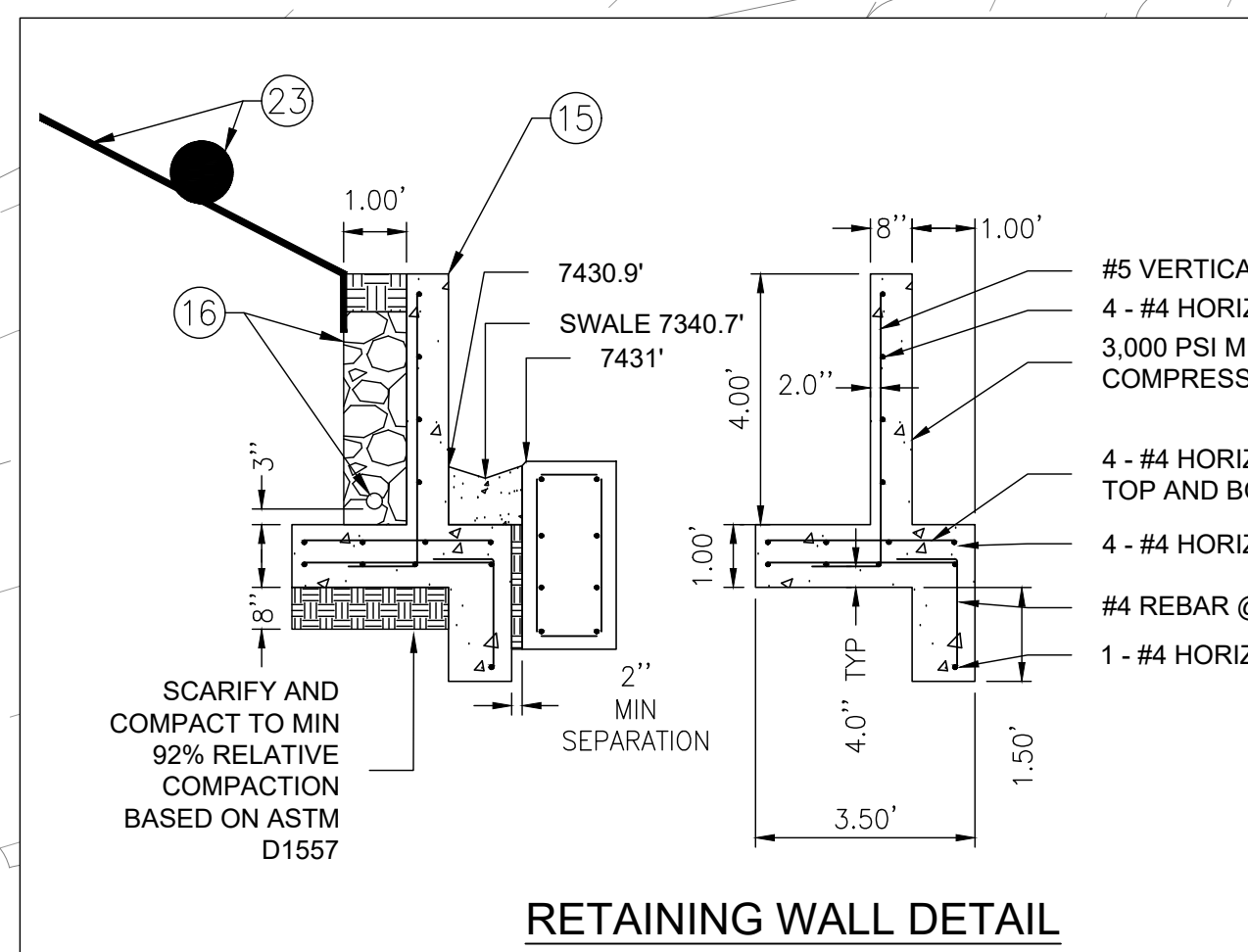


REFERENCE NOTES

- ① INSTALL NEW 28,000 GAL BOLTED WATER STORAGE TANK.
- ② (N) UG 6" DI RESILIENT WEDGE GATE VALVES WITH OPERATOR NUT. SEE DETAIL 3/CD-2.
- ③ (N) 6" FLEXIBLE EXPANSION JOINT, NSF61 CERTIFIED THAT ALLOWS 2" LATERAL DEFLECTION.
- ④ (N) 6" DI FLANGED 90° ELBOW.
- ⑤ INSTALL NEW UG 6", DR11, C906 HDPE PIPE. SEE SHEET L-6 FOR WATER LINE ALIGNMENT.
- ⑥ (N) UG 3" DI FL X MJ RESILIENT WEDGE GATE VALVE WITH OPERATOR NUT. SEE DETAIL 3/CD-2.
- ⑦ (N) 3" FLEXIBLE EXPANSION JOINT, NSF61 CERTIFIED THAT ALLOWS 2" LATERAL DEFLECTION.
- ⑧ (N) 3" DI FLANGED 90° ELBOW.
- ⑨ (N) UG 6" DI MECHANICAL JOINT 90° ELBOW.
- ⑩ INSTALL NEW UG 3", DR11, C901 HDPE PIPE. SEE SHEET L-7 FOR WATER LINE ALIGNMENT.
- ⑪ (N) 6" DI BLIND FLANGE FOR GATE VALVE.
- ⑫ TANK OVERFLOW WITH CATCH BASIN.
- ⑬ OSHA COMPLIANT ACCESS LADDER.
- ⑭ TANK LEVEL INDICATOR.
- ⑮ INSTALL REINFORCED CONCRETE RETAINING WALL PER DETAIL, THIS SHEET.
- ⑯ INSTALL SUBDRAIN SYSTEM BEHIND CONCRETE WALL WITH 4" DIA PERFORATED DRAIN PIPE SURROUNDED BY ¾ INCH CRUSHED ROCK (MINIMUM 1 CUBIC FOOT PER LINEAL FOOT) BACKFILL FULLY ENCAPSULATED IN MIRAFI 140 N FILTER FABRIC, OR EQUIVALENT. COMPACT IN MAXIMUM 6" LIFTS TO A NON-YIELDING CONDITION. SEE WALL PROFILE THIS PAGE.
- ⑰ HIGH LEVEL OVERFLOW WITH FLAPPER VALVE.
- ⑱ (N) STORAGE TANK 24" DIAMETER HINGED ACCESS
- ⑲ (N) 6" DI RESILIENT WEDGE GATE VALVE WITH OPERATOR NUT.
- ⑳ (N) UG 3" DI PIPE SPOOL AS NEEDED.
- ㉑ (N) UG 6" DI PIPE SPOOL AS NEEDED.
- ㉒ R&D EXISTING STORAGE TANK, OUTLET ELBOW, VALVES, ANY INLET COMPONENTS TO PREP FOR NEW TANK. ABANDON INLET & OUTLET PIPE IN PLACE AS NEEDED FOR NEW TANK FOUNDATION AND OVER EXCAVATION LIMITS. REFER TO GEOTECH REPORT.
- ㉓ INSTALL ROLL EROSION CONTROL BLANKET OVER DISTURBED SOIL & INSTALL FIBER ROLL AT 5' VERTICAL SPACING MAX PER CALTRANS STD DETAIL H51.

GENERAL NOTES

- 1. COAT ABOVE GROUND PIPING PER SPECIFICATIONS.
- 2. CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS OF PIPING AND EQUIPMENT AND ADJUST PIPING AND EQUIPMENT LAYOUT DIMENSIONS AS NECESSARY. ADJUSTMENTS TO LAYOUT DIMENSIONS SHALL BE APPROVED IN ADVANCE BY THE ENGINEER.
- 3. CONTRACTOR SHALL TEST THE INSTALLED SYSTEM, INCLUDING STARTUP AND SHUTDOWN, AND STABILITY OF THE WELL PUMPS, MOTORS AND SYSTEM COMPONENTS.
- 4. CONTRACTOR SHALL FOLLOW ALL SITE PREPARATION RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT.
- 5. (N) STORAGE TANK SHALL BE FILLED AND PRELOADED FOR A PERIOD OF THREE (3) WEEKS PER GEOTECHNICAL REPORT.
- 6. INSULATE ALL EXPOSED PIPE, VALVES, DRAIN LINES, AND OVERFLOW LINES.
- 7. WRAP ALL UG DI PIPE, VALVES, FITTINGS PER SPECIFICATIONS.



DESIGNED:	DATE	RECORD DRAWING		SCALE
KCS	10/22/24	RESIDENT ENGINEER	DATE	
DRAWN:	10/22/24			
CHECKED:	10/22/24			

FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.

[Signature]
 SUPERVISING ENGINEER
 DATE 4/4/2024

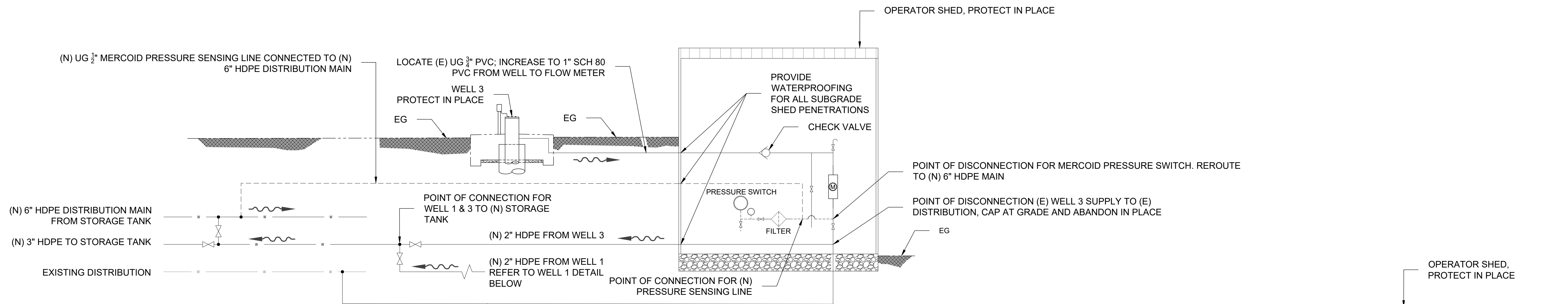


PROJECT
 CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT
 ROAD NO. - BRIDGE NO.

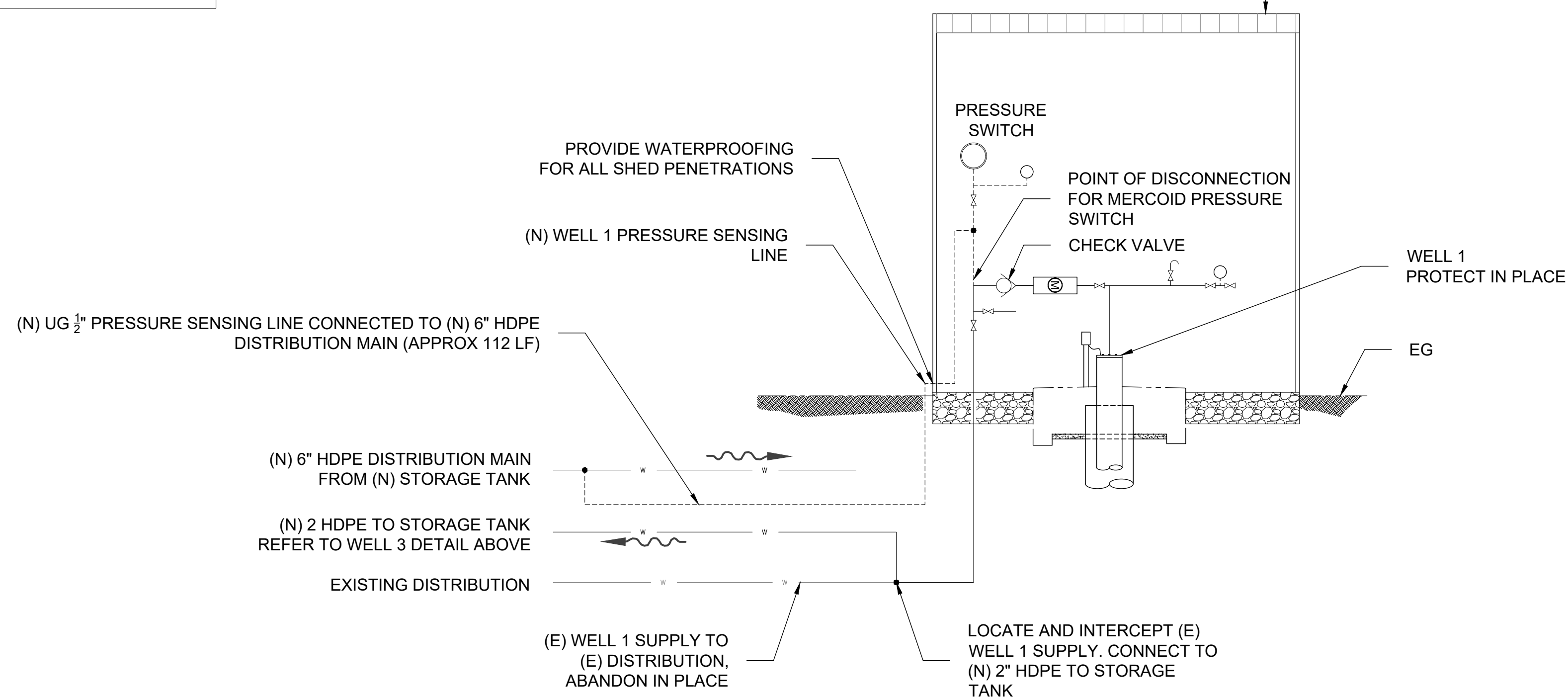


DEPARTMENT OF PUBLIC WORKS AND PLANNING
 CONSTRUCTION DETAILS
 CD-7
 DRAWING NO. 11334 SHEET NO. 22 TOTAL 23

Y:\PROJECTS - CDBG AND OTHER NON R&B PROJECTS\CSA 1 - TAMARACK WATER PIPE - SCDWRG\PS&ES - EXHIBITS - MAPS\CURRENT SET\SHEETS\432360D\TLO01SAD.WG 10/16/2024 9:29 AM - SINGLETON, RICHARD



**WELL 3 DETAIL
NOT TO SCALE**



**WELL 1 DETAIL
NOT TO SCALE**

GENERAL NOTES

1. DETAILS PROVIDED FOR ILLUSTRATION PURPOSES ONLY. ALL EXISTING CONDITIONS AND IMPROVEMENTS MAY NOT BE SHOWN.
2. CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS OF PIPING AND EQUIPMENT AND FURNISH PIPING, FITTINGS AND EQUIPMENT AS NECESSARY TO PROVIDE A FULLY OPERATIONAL SYSTEM. CONTRACTOR SHALL SUBMIT PROPOSED EQUIPMENT LAYOUT, INCLUDING MATERIALS PLANNED TO BE USED FOR APPROVAL OF THE ENGINEER.
3. CONTRACTOR SHALL TEST THE INSTALLED SYSTEM, INCLUDING STARTUP AND SHUTDOWN, AND STABILITY OF THE PUMPS, MOTORS AND SYSTEM COMPONENTS.

	DATE	RECORD DRAWING	SCALE		PROJECT	DEPARTMENT OF PUBLIC WORKS AND PLANNING	
DESIGNED: KCS	10/16/24	RESIDENT ENGINEER		 SUPERVISING ENGINEER DATE 4/4/2024	CSA 1 - TAMARACK WATER INFRASTRUCTURE REPLACEMENT PROJECT	CONSTRUCTION DETAILS CD-8	
DRAWN: KCS	10/16/24		 No. C76724 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA				ROAD NO. - BRIDGE NO.
CHECKED: SA	10/16/24		 COUNTY OF FRESNO				DRAWING NO. 11334 SHEET NO. 23 TOTAL 23
FOR RIGHT OF WAY DATA AND ACCURATE ACCESS DETERMINATION, SEE DOCUMENTS IN THE DEPARTMENT OF PUBLIC WORKS AND PLANNING.							