

LOS OSOS COMMUNITY SERVICES DISTRICT



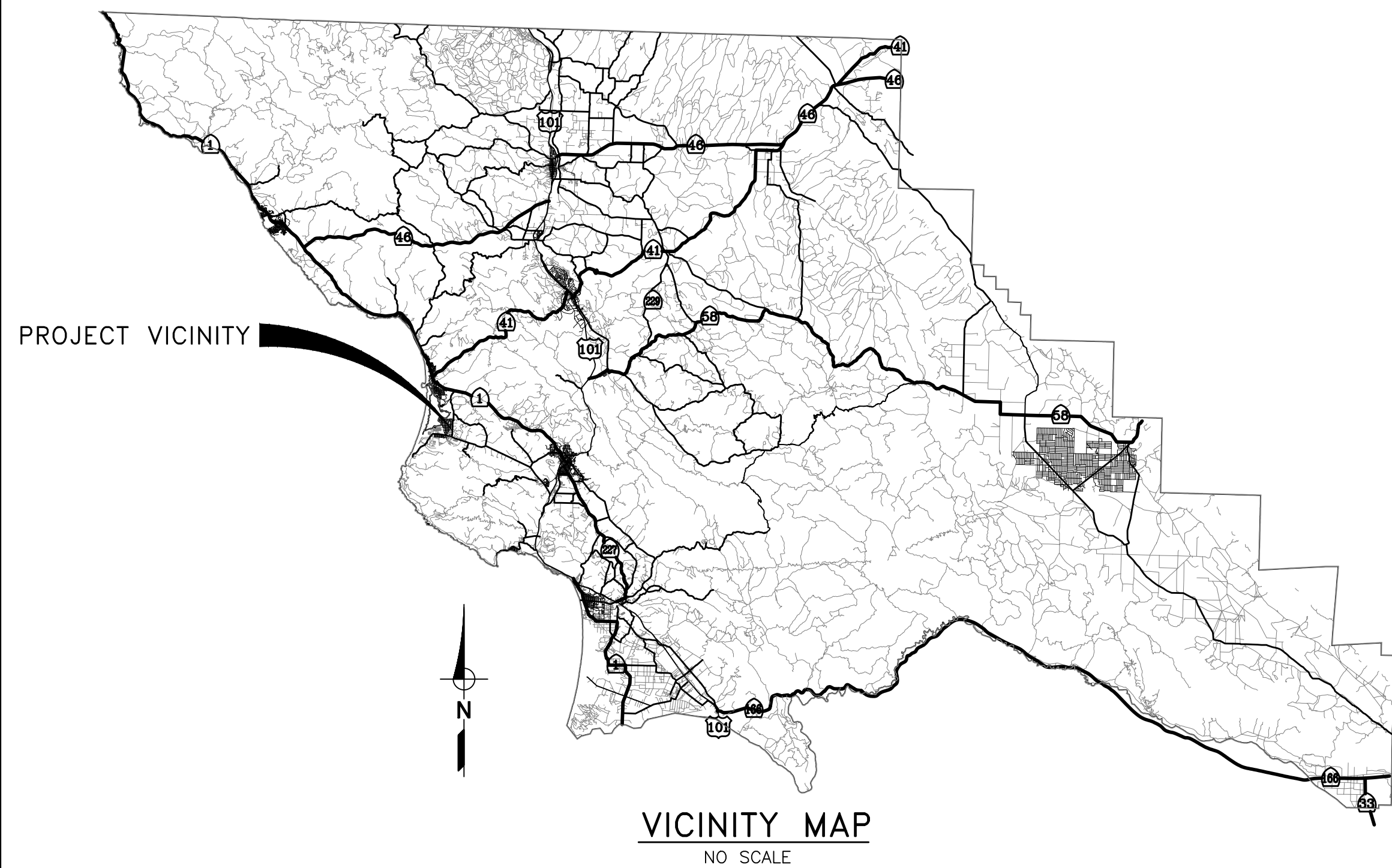
CONSTRUCTION PLANS FOR SOUTH BAY WELL SITE WATER TRANSMISSION MAIN TO MAIN PRESSURE ZONE SEPTEMBER, 2020

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CONTACT LIST

TITLE	NUMBER	CONTACT
LOCSO OFFICE	805-528-9370	RON MUNDS
LOCSO UTILITY SYSTEM MANAGER	805-528-9376	JOSE ACOSTA
AT&T	510-645-2929	MARSHALL JOHNSON
PG&E	805-363-3989	KENNY COTTRELL
CHARTER	805-431-3047	TIMOTHY LINDSAY
COUNTY OF SAN LUIS OBISPO PUBLIC WORKS	805-781-5135	LAURA HOLDER
COUNTY OF SAN LUIS OBISPO TRANSPORTATION	805-237-3151	ROB WALLRAVIN
SOCAL GAS	805-781-2452	RY PLAKIAS



NOTE:
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ENGINEER *Michael J. Goymerac* DATE 1/28/21

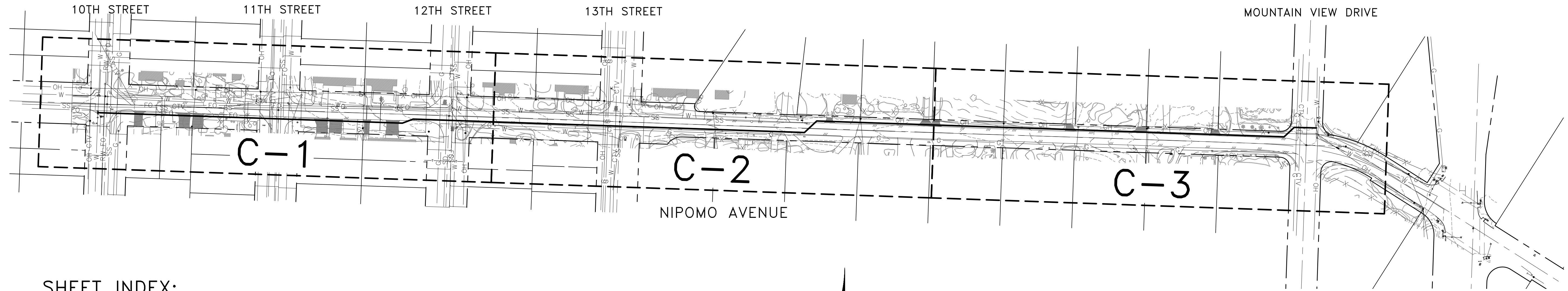
 48 hours BEFORE excavation
1-800-422-4133
CALL Underground Service Alert

RECORD DRAWING

1/28/21 WSC RECORD DRAWING 9/16/20 WSC CONFORMED PER ADDENDUM		DESIGNED M/JG DRAWN PMD/CJD CHECKED CGD SCALE NO SCALE	PREPARED BY: <i>Michael J. Goymerac</i> MICHAEL J. GOYMERAC RCE No.: 84894 DATE 6/24/20	*** ORIGINAL STAMPED BY MICHAEL J. GOYMERAC RCE No.: 84894 ***	 WSC WATER SYSTEMS CONSULTING, INC. 805 AEROVISTA PLACE, SUITE 201 SAN LUIS OBISPO, CA 93401 PHONE: (805) 457-8833 FAX: (805) 888-2764	LOS OSOS COMMUNITY SERVICES DISTRICT 2122 9TH STREET, SUITE 110 LOS OSOS, CA 93402 APPROVED: _____ DATE _____ RON MUNDS - GENERAL MANAGER	SOUTH BAY WELL SITE WATER TRANSMISSION MAIN TO MAIN PRESSURE ZONE TITLE SHEET, VICINITY AND LOCATION MAP	DRAWING T-1 SHEET 1 OF 10 PROJECT #
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Path: W:\3.0 Projects\Los Osos CSD\Southbay Well Piping Design\6.0 Working Files\CAD Filename: 01_T-1.dwg Plot Date: January 28, 2021 - 10:24 AM CADD User: Lauren Cetin

Path: W:\3.0 Projects\Los Osos CSD\Southbay Well Piping Design\6.0 Working Files\CAD Filename: 02_G-1.dwg Plot Date: January 28, 2021 - 10:24 AM CADD User: Lauren Cetin




SHEET INDEX:

SHEET NO.	DRAWING NO.	DESCRIPTION
1.	T-1	TITLE SHEET, VICINITY AND LOCATION MAP
2.	G-1	KEY MAP AND DRAWING INDEX
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8.	D-1	PROJECT DETAILS
9.	SD-1	STANDARD DETAILS - 1
10.	SD-2	STANDARD DETAILS - 2

KEY MAP
1"=100'

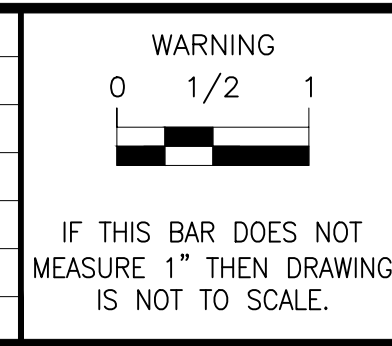


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ENGINEER  DATE 1/28/21

RECORD DRAWING

REV	DATE	BY	DESCRIPTION
△	1/28/21	WSC	RECORD DRAWING
△	9/16/20	WSC	CONFORMED PER ADDENDUM



DESIGNED MJD
DRAWN PMD/CJD
CHECKED CGD
SCALE AS NOTED

PREPARED BY:

MICHAEL J. GOYMERAC DATE 6/24/20
RCE No.: 84894

WSC
WATER SYSTEMS CONSULTING, INC.

805 AEROVISTA PLACE, SUITE 201 SAN LUIS OBISPO, CA 93401
PHONE: (805) 457-8833 FAX: (805) 888-2764

LOS OSOS COMMUNITY SERVICES DISTRICT
2122 9TH STREET, SUITE 110
LOS OSOS, CA 93402

APPROVED: _____ DATE _____
RON MUNDS - GENERAL MANAGER



SOUTH BAY WELL SITE WATER TRANSMISSION
MAIN TO MAIN PRESSURE ZONE

KEY MAP AND DRAWING INDEX

DRAWING
G-1
SHEET 2 OF 10
PROJECT #

LEGEND:

EXISTING	CONSTRUCT	
		SURVEY MONUMENT
		CENTERLINE
		EASEMENT LINE
		PROPERTY LINE
		RIGHT OF WAY
		STORM DRAIN
		WATERLINE
		SANITARY SEWER
		RECYCLED WATER
		TELEPHONE
		FIBER OPTIC
		GAS
		OVERHEAD UTILITIES
		ELECTRICAL
		EDGE OF PAVEMENT
		FENCE
		GAS VALVE OR HAND HOLE
		FIRE HYDRANT ASSEMBLY
		WATER VALVE
		WATER SERVICE
		FIRE SERVICE
		SEWER MANHOLE
		UTILITY CLEANOUT
		STORM DRAIN INLET
		TELEPHONE MH
		WATER VAULT
		RECYCLED WATER VAULT
		GAS METER
		CAP OR PLUG
		AIR VAC
		BLOW OFF
		REDUCER
		COUPLING
		THRUST BLOCK
		UTILITY PULL BOX
		POWER POLE
		LIGHT POLE
		SIGN
		TREE
		BUSH/TREES/BRUSH
		WALL
		CONCRETE
		MAIL BOX
		POLE/SNOW POLE
		1-SACK SLURRY

ABBREVIATIONS:

~/+	APPROXIMATELY	N&T	NAIL AND TIN
ABAND.	ABANDONED	NC	NORMALLY CLOSED
AC/ACP	ASBESTOS CEMENT PIPE	PC350	PRESSURE CLASS 350
CL	CENTER LINE	PCC	PORTLAND CEMENT CONCRETE
CLR	CLEARANCE	PL	PROPERTY LINE
CVR	COVER	PP	POWER POLE
DI/DIP	DUCTILE IRON PIPE	PSI	POUNDS PER SQUARE INCH
DN	DOWN	PVC	POLYVINYL CHLORIDE
DWY	DRIVEWAY	R	RADIUS
DWG	DRAWING	RC	RELATIVE COMPACTION
EP	EDGE OF PAVEMENT	RCE	REGISTERED CIVIL ENGINEER
EX or	EXISTING	RCP	REINFORCED CONCRETE PIPE
EXIST		ROW	RIGHT OF WAY
FCA	FLANGE COUPLING ADAPTER	RT	RIGHT
FD	FOUND	RW	RECYCLED WATER
FLG	FLANGED	SFT	SURVEY FEET (DECIMAL FEET)
or FL		SD	STORM DRAIN
FL	FLOW LINE	SL	STREET LIGHT
FH	FIRE HYDRANT	SS	SEWER
G	GAS	SSFM	SEWER FORCE MAIN
GB	GRADE BREAK	STA	STATION
GV	GATE VALVE	STD	STANDARD
HMA	HOT MIX ASPHALT	STL	STEEL
HPI	HORIZONTAL POINT OF INFLECTION	TEMP	TEMPORARY
IP	IRON PIPE	TOP	TOP OF PIPE
IRR	IRRIGATION	VAR	VARIES
LF	LINEAR FEET	VERT	VERTICAL
LOCSD	LOS OSOS COMMUNITY SERVICES DISTRICT	VPI	VERTICAL POINT OF INFLECTION
LS	LAND SURVEYOR	W	WATER
LT	LEFT	WM	WATER METER
MAX	MAXIMUM	WT	WEIGHT
MIN	MINIMUM		
MJ	MECHANICAL JOINT		

BASIS OF BEARINGS:

HORIZONTAL POSITIONS ARE BASED ON THE CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE 5, NAD 83(1991.35), PER AN RTK GPS CALIBRATION ADJUSTED TO POINTS 123, 134, AND 211 AS SHOWN ON A RECORD OF SURVEY IN BOOK 110, AT PAGE 69, RECORDS OF SAN LUIS OBISPO COUNTY.

TO OBTAIN GROUND DISTANCES AND GEODETIC NORTH, MULTIPLY GRID DISTANCES (DISTANCES SHOWN HEREON) BY 1.00002929 AND ROTATE GRID BEARINGS COUNTERCLOCKWISE BY 1°36'47" TO OBTAIN GEODETIC BEARINGS.

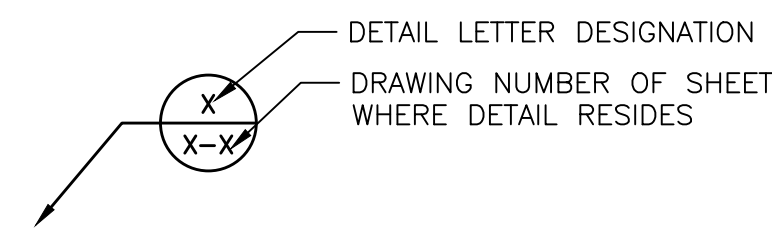
BASIS OF ELEVATIONS:

VERTICAL POSITIONS (NAVD 88) ARE BASED ON AN RTK GPS CALIBRATION ADJUSTED TO POINTS 123, 134, AND 211 AS SHOWN ON A RECORD OF SURVEY IN BOOK 110, AT PAGE 69, RECORDS OF SAN LUIS OBISPO COUNTY.

SURVEYOR'S NOTES:

- NO TITLE SEARCH (TITLE REPORT) WAS PROVIDED TO THE SURVEYOR. EASEMENTS OR OTHER FEE CONVEYANCES WHICH MAY AFFECT THE SUBJECT PROPERTY HAVE NOT BEEN PLOTTED.
- ONLY THE SURFACE EVIDENCE OF UNDERGROUND UTILITIES HAVE BEEN MEASURED IN THE FIELD ON THIS SURVEY. IF APPROXIMATE UNDERGROUND ALIGNMENTS ARE SHOWN, I MAKE NO WARRANTY AS TO THE ACTUAL LOCATION, TYPE OR DEPTH OF THOSE UNDERGROUND UTILITIES. CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-642-2444 TO VERIFY THE ACTUAL LOCATION OF UTILITIES PRIOR TO ANY EXCAVATION. THE SURVEYOR ALSO HAS MADE NO INVESTIGATION AS TO SUBSURFACE ENVIRONMENTAL CONDITIONS THAT WOULD AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY.
- IT WILL BE THE ARCHITECT'S RESPONSIBILITY TO VERIFY SETBACK AND HEIGHT RESTRICTIONS WITH THE LOCAL GOVERNING AGENCY.
- THE SIGNED AND SEALED ORIGINAL DRAWING OF THIS MAP CONSTITUTES THE FINAL WORK PRODUCT. MBS LAND SURVEYS WILL NOT BE LIABLE FOR ELECTRONIC VERSIONS OF THIS MAP PROVIDED TO OTHER PARTIES.
- THE BOUNDARY LINES SHOWN HEREON ARE A COMBINATION OF MEASURED LINES BETWEEN FOUND MONUMENTS AND RECORD LINES COMPILED FROM RECORD INFORMATION (I.E. RECORDED MAPS OR DEEDS). SEE LEGEND ABOVE FOR LINE IDENTIFICATION. APPROXIMATE DIMENSIONAL TIES FROM THE BOUNDARY LINES SHOWN TO PHYSICAL FEATURES (E.G. BUILDINGS, FENCES, WALLS OR TREES, ETC.) SHOWN ON THIS MAP CAN BE DERIVED BY SCALING THE FINISHED WORK PRODUCT WHICH IS PLOTTED AT THE SCALE INDICATED. HOWEVER, DIMENSIONAL TIES DERIVED DIRECTLY FROM THE DIGITAL PRODUCT (AUTOCAD DRAWING) ARE NOT ACCURATE AND CANNOT BE RELIED UPON FOR DETERMINING BUILDING SETBACKS OR THE PLACEMENT OF ANY PROPOSED NEW CONSTRUCTION. THE LOCATION OF NEW CONSTRUCTION CAN ONLY BE PROPERLY DESIGNED WHEN IT IS BASED ON AN ACTUAL BOUNDARY SURVEY OF THE PARCEL. OTHERWISE, MODIFICATIONS TO THE STRUCTURE MAY BE NECESSARY DURING CONSTRUCTION TO COMPLY WITH AGENCY SETBACK REQUIREMENTS.

DETAIL NUMBERING SYSTEM



NOTES

- "-" IN DRAWING AREA INDICATES THAT SECTION OR DETAIL IS SHOWN ON THE SAME DRAWING THAT IT IS CUT FROM OR REFERRED TO.

SURVEYOR'S STATEMENT:

THIS MAP REPRESENTS AN AERIAL TOPOGRAPHIC SURVEY PERFORMED BY CENTRAL COAST AERIAL MAPPING, PHOTOGRAPHY DATED 11/25/2019, JOB NO. 2019-256, WITH GROUND CONTROL SET BY MBS LAND SURVEYS. CONTACT: ROBERT LAFICA, CCAM 805-543-4307

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ENGINEER DATE 1/28/21

RECORD DRAWING

<p>WARNING</p> <p>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.</p>		<p>DESIGNED: MJG</p> <p>DRAWN: PMD/CJD</p> <p>CHECKED: CGD</p> <p>SCALE: NO SCALE</p>	<p>PREPARED BY:</p> <p></p> <p>MICHAEL J. GOYMERAC RCE No.: 84894</p> <p>DATE: 6/24/20</p>	<p>*** ORIGINAL STAMPED BY MICHAEL J. GOYMERAC RCE No.: 84894 ***</p> <p>WSC WATER SYSTEMS CONSULTING, INC.</p> <p>805 AEROVISTA PLACE, SUITE 201 SAN LUIS OBISPO, CA 93401</p> <p>PHONE: (805) 457-8833 FAX: (805) 888-2764</p>	<p>LOS OSOS COMMUNITY SERVICES DISTRICT 2122 9TH STREET, SUITE 110 LOS OSOS, CA 93402</p> <p>APPROVED: _____ DATE _____</p> <p>RON MUNDS - GENERAL MANAGER</p>	<p>SOUTH BAY WELL SITE WATER TRANSMISSION MAIN TO MAIN PRESSURE ZONE</p> <p>LEGEND, ABBREVIATIONS, AND SURVEYOR'S NOTES</p>	<p>DRAWING</p> <p>G-2</p> <p>SHEET 3 OF 10 PROJECT #</p>
<p>1/28/21</p> <p>9/16/20</p>	<p>WSC</p> <p>WSC</p>	<p>RECORD DRAWING</p> <p>CONFORMED PER ADDENDUM</p>	<p>REVISIONS</p>	<p>REV</p>	<p>DATE</p>	<p>BY</p>	<p>DESCRIPTION</p>

ENGINEER'S NOTES:

GENERAL CONSTRUCTION:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE COUNTY OF SAN LUIS OBISPO PUBLIC IMPROVEMENT STANDARDS AND DRAWINGS.
- ALL SPECIFICATIONS, DRAWINGS, AND DETAILS INCLUDED IN THE CONTRACT DOCUMENTS SHALL FULLY APPLY TO THE WORK WHETHER OR NOT SPECIFICALLY REFERENCED. IF CONFLICTS ARISE, THE MORE STRINGENT REQUIREMENTS APPLY.
- UNLESS NOTED OTHERWISE, ALL WORK SHOWN IN THESE DOCUMENTS IS NEW AND TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THE PUBLIC RIGHT-OF-WAY, PERMANENT AND TEMPORARY EASEMENTS AND LOCSO OWNED PROPERTY.
- THE CONTRACTOR IS RESPONSIBLE FOR SECURING HIS OWN STAGING AREA. ALL ASSOCIATED FEES SHALL BE INCLUDED IN THE BID ITEM FOR MOBILIZATION.
- NORMAL WORKING HOURS ARE 7:00 AM TO 5:00 PM. NORMAL INSPECTION HOURS ARE 7:30 AM TO 4:30 PM MONDAY THROUGH FRIDAY, EXCEPT LEGAL HOLIDAYS. LOCSO SHALL BE NOTIFIED AT LEAST SEVEN (7) WORKING DAYS PRIOR TO START OF CONSTRUCTION. CONSTRUCTION WILL NOT TAKE PLACE ON WEEKENDS OR HOLIDAYS UNLESS SPECIFICALLY APPROVED BY LOCSO.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL HOLD LOCSO AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- DIMENSIONED DISTANCES SHALL GOVERN OVER SCALED DISTANCES.
- MAINTAIN ON-SITE THE LATEST SIGNED CONSTRUCTION DRAWINGS AT ALL TIMES. MAINTAIN A COMPLETE AND ACCURATE RECORD OF ALL CHANGES IN CONSTRUCTION FROM THAT SHOWN ON THE PLANS AND SPECIFICATIONS FOR THE PURPOSE OF PROVIDING A BASIS FOR RECORD DRAWINGS. NO CHANGES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL FROM OWNERS REPRESENTATIVE.
- WORK SHALL BE DONE IN ACCORDANCE WITH THE APPROPRIATE ENCROACHMENT PERMITS FROM THE COUNTY OF SAN LUIS OBISPO. LOCSO WILL APPLY FOR AND OBTAIN THESE PERMITS, HOWEVER, THE CONTRACTOR SHALL PREPARE ANY REQUIRED TRAFFIC CONTROL PLANS AND PROVIDE TO LOCSO.
- CONTRACTOR SHALL VIDEO TAPE AND DOCUMENT THE PRE-EXISTING CONDITIONS OF THE JOBSITE AND PROPERTIES ADJACENT TO THE PROJECT, AND SUBMIT THE VIDEO ON DVD TO LOCSO PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL PROTECT EXISTING JOBSITE CONDITIONS AND ADJACENT PROPERTIES DURING THE WORK AND REPAIR DAMAGE TO LANDSCAPING, PAVING, IRRIGATION, STRUCTURES, ETC., CAUSED BY THE WORK. CONTRACTOR SHALL VIDEO TAPE AND DOCUMENT THE POST-CONSTRUCTION CONDITIONS OF THE JOBSITE AND PROPERTIES ADJACENT TO THE PROJECT, AND SUBMIT THE VIDEO ON DVD TO LOCSO.
- CONTRACTOR SHALL MAINTAIN SAFE AND CONTINUOUS ACCESS TO ALL BUSINESSES, RESIDENCES, AND PUBLIC FACILITIES WITH REFERENCE TO THE WORK AREA TRAFFIC CONTROL HANDBOOK (W.A.T.C.H.) MANUAL.
- DUST SHALL BE CONTROLLED AT ALL TIMES BY APPROVED METHODS.
- IN ACCORDANCE WITH CALIFORNIA HEALTH AND SAFETY CODE SECTION 7050.5, THE CONTRACTOR SHALL NOTIFY THE COUNTY CORONER IF HUMAN REMAINS ARE DISCOVERED DURING THE COURSE OF THE WORK.
- CONTRACTOR SHALL COMPLY WITH PROJECT ENVIRONMENTAL CONDITIONS WHICH INCLUDE REQUIREMENTS FOR PARTICIPATION IN ENVIRONMENTAL AWARENESS TRAINING, CONSTRUCTION SCHEDULING TO AVOID IMPACTS TO BIOTA, TEMPORARY PROTECTION OF WORK ZONES PRIOR TO GROUND DISTURBANCE/VEGETATION REMOVAL, BIOLOGICAL AND ARCHAEOLOGICAL MONITORING, AND COORDINATION AND COOPERATION WITH ENVIRONMENTAL MONITORS RETAINED BY THE DISTRICT. SEE SECTION 16 OF THE SUPPLEMENTARY GENERAL CONDITIONS FOR DETAILS ON ENVIRONMENTAL REQUIREMENTS FOR THIS PROJECT.

UNDERGROUND FACILITIES:

- ENGINEER HAS SEARCHED AVAILABLE KNOWN RECORDS FOR INFORMATION ABOUT UNDERGROUND FACILITIES INCLUDING FACILITIES PRESENTLY BEING DESIGNED IN THE VICINITY OF THE PROJECT. TO THE BEST OF THE ENGINEER'S ABILITY THOSE UNDERGROUND FACILITIES WHICH MAY AFFECT THE WORK ARE SHOWN ON THESE DRAWINGS. LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE BASED ON FACILITY DESIGN DRAWINGS AND ARE APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE PRESENCE AND LOCATION OF ALL EXISTING FACILITIES.
- AT LEAST TWO WORKING DAYS BEFORE COMMENCING ANY EXCAVATION, CONTRACTOR SHALL REQUEST UNDERGROUND SERVICE ALERT AND NON-MEMBER COMPANIES OR UTILITIES TO MARK OR OTHERWISE INDICATE THE LOCATION(S) OF THEIR SUBSURFACE FACILITIES.
- PRIOR TO PIPELINE EXCAVATION, CONTRACTOR SHALL EXCAVATE AND EXPOSE EXISTING FACILITIES (POTHOLE) IN LOCATIONS WHERE NEW FACILITIES ARE PROPOSED TO ESTABLISH THE EXACT LOCATION, SIZE, AND DEPTH, AND DETERMINE IF THERE WILL BE AN INTERFERENCE WITH PROPOSED FACILITIES. CHANGES OR DELAYS CAUSED BY CONTRACTOR'S FAILURE TO PERFORM "POTHOLING" AND INTERFERENCE LOCATION WORK SHALL NOT BE ELIGIBLE FOR EXTRA WORK COMPENSATION OR TIME EXTENSION. UPON LEARNING OF THE EXISTENCE OR LOCATION OF ANY UNDERGROUND FACILITY OMITTED OR SHOWN INCORRECTLY ON THESE DRAWINGS, OR IMPROPERLY MARKED OR OTHERWISE INDICATED, CONTRACTOR SHALL IMMEDIATELY NOTIFY LOCSO AND THE ENGINEER, PROVIDING FULL DETAILS AS DEPTH, LOCATION, SIZE, AND FUNCTION. REFER TO SPECIFICATION 02 01 20 FOR REQUIREMENTS ON PROTECTING EXISTING UTILITIES.
- CONTRACTOR SHALL PRESERVE ALL SURVEY MARKERS AND MONUMENTATION IN PLACE. IF ANY EXISTING MONUMENTS REQUIRE REMOVAL TO PERFORM THE WORK, CONTRACTOR SHALL NOTIFY LOCSO AT LEAST 7 DAYS IN ADVANCE OF CONSTRUCTION. SAID MONUMENTS WILL BE TIED OUT AND RE-ESTABLISHED BY LOCSO.
- CONTRACTOR SHALL PRESERVE ALL WATER PIPELINE MARKINGS. WATER MARKINGS DESTROYED WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

PIPELINE NOTES:

- UNLESS OTHERWISE SHOWN, MINIMUM COVER ON BELOW GRADE PIPELINES SHALL BE 36" IN ALL AREAS UNLESS OTHERWISE DIRECTED BY THE LOCSO REPRESENTATIVE OR ENGINEER.
- PIPELINE ELEVATIONS SHOWN ARE FOR INVERT OF PIPE UNLESS NOTED OTHERWISE. PIPELINES SHALL SLOPE UNIFORMLY BETWEEN INVERT ELEVATIONS SHOWN. CONTRACTOR SHALL PROVIDE ALL SHORTS, SPOOLS, AND FITTINGS NECESSARY TO MEET ELEVATIONS SPECIFIED.
- ALL HORIZONTAL OR VERTICAL CHANGES IN PIPE ALIGNMENT DELINEATED ON THE PLANS AS SHOWN WITHOUT BENDS, SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FOR PVC PIPE, TOTAL ANGULAR DISPLACEMENT SHALL BE DISTRIBUTED THROUGH AS MANY JOINTS AS PRACTICABLE. FOR PVC PIPE, FITTINGS SHALL BE USED TO ACCOMPLISH ALL VERTICAL OR HORIZONTAL DEFLECTION IN EXCESS OF THE MANUFACTURER'S ALLOWABLE JOINT DEFLECTION. BENDING OF THE PIPE IS NOT PERMITTED.
- CONNECTIONS MADE BETWEEN DIFFERENT CLASSES OF PIPE SHALL BE MADE WITH MATERIALS RATED FOR THE HIGHER PRESSURE CLASS.
- ALL NEW VALVES SHALL BE FLANGED DIRECTLY TO A TEE, CROSS OR OTHER FITTING. VALVES SHALL BE ACCESSIBLE FOR OPERATION WITH COMPLETE VALVE BOX PRIOR TO CONNECTION TO EXISTING WATER SYSTEM.
- THE WATER SYSTEM SHALL BE HYDROSTATICALLY TESTED PRIOR TO PLACING COMPACTED BASE OR PAVEMENT.
- ALL HYDROSTATIC TESTING AND DISINFECTION SHALL BE MADE IN THE PRESENCE OF A LOCSO REPRESENTATIVE. HYDROSTATIC TEST PRESSURE SHALL NOT BE LESS THAN 200 PSIG, OR 50 PSIG GREATER THAN THE RATED PRESSURE OF THE PIPE MEASURED AT THE LOWEST ELEVATION OF THE SYSTEM, WHICHEVER IS GREATER. TESTING AGAINST VALVES OR THROUGH FLEX-TEND EXPANSION JOINTS IS NOT PERMITTED; CONTRACTOR SHALL INSTALL BULKHEADS AND TOP OUTLETS AS REQUIRED FOR TESTING. END CAPS SHALL BE INSTALLED ON THE NEWLY CONSTRUCTED SIDE OF ALL CONNECTION POINTS AND NEW PIPING SHALL PASS ALL TESTING PRIOR TO CONNECTION TO THE EXISTING WATER SYSTEM. ALL PIPING UNDER CONCRETE SLABS/FOUNDATIONS SHALL PASS PRESSURE TESTING PRIOR TO PLACING CONCRETE.
- CONTRACTOR SHALL COORDINATE ALL TIE-INS OF NEW WATER MAINS TO EXISTING MAINS WITH LOCSO TO MINIMIZE SERVICE INTERRUPTIONS. PROVIDE AT LEAST 3 WORKING DAYS NOTICE PRIOR TO TIE-INS. A LOCSO REPRESENTATIVE MUST BE PRESENT ON SITE TO WITNESS SAID TIE-INS. TIE-INS MAY NOT OCCUR ON FRIDAYS.
- WATER PIPELINE CROSSINGS OVER UTILITIES MUST HAVE A 1-FOOT VERTICAL CLEARANCE BETWEEN WATER PIPE AND UTILITY, UNLESS APPROVED BY OWNER'S REPRESENTATIVE. PIPELINES CROSSING OVER SEWER OR STORM LINES MUST MEET MINIMUM CLEARANCE REQUIREMENTS AND ANGLE OF APPROACH AS REQUIRED BY THE CALIFORNIA WATER BOARD - DIVISION OF DRINKING WATER.
- CONTRACTOR SHALL ADJUST ALL VALVE BOXES, FIRE HYDRANTS, BLOW OFFS, AIR VACS, ETC. TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR DIRECTED.
- FIRE HYDRANTS, METER BOXES, AIR VACS AND BLOW-OFFS SHALL BE LOCATED NO CLOSER THAN 5 FEET FROM BEGINNING OF CURB RETURN, DRIVEWAY, OR ANY OTHER UTILITY. FINAL APPURTENANCE PLACEMENT TO BE DETERMINED IN THE FIELD BY LOCSO REPRESENTATIVE AND SHALL BE PROTECTED WITH BARRICADES OR AS DIRECTED BY THE LOCSO REPRESENTATIVE.
- THE CONTRACTOR IS ALERTED THAT THERE IS ASBESTOS CEMENT (AC) PIPE IN THE SYSTEM AND THAT CONNECTIONS MAY BE MADE TO THIS MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE CONNECTIONS, AND FOR ALL ANCILLARY WORK REQUIRED, INCLUDING THE HANDLING AND DISPOSAL OF HAZARDOUS MATERIALS. ALL HANDLING, REMOVAL AND DISPOSAL SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL LAWS AND STANDARDS.
- NEW CONTINUOUS SERVICE LATERALS ARE REQUIRED WITH NEW METER BOXES. NO SERVICE LATERAL COUPLINGS ARE ALLOWED.
- SAMPLING AND DISINFECTION SHALL BE PER SPECIFICATIONS AND AT LOCSO DIRECTION.
- TRANSITION COUPLINGS SHALL BE USED FOR PVC TO AC AND PVC TO STL CONNECTIONS. DUCTILE IRON REPAIR SLEEVES WITH MEGALUG RESTRAINTS SHALL BE USED FOR DIP TO PVC, PVC TO PVC, AND DIP TO DIP CONNECTIONS.
- CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION AND SCHEDULE OF SEGMENTS WITH LOCSO STAFF AND INSPECTORS.

GRADING AND SITE WORK NOTES:

- CONTRACTOR SHALL CONTROL ALL RUNOFF FROM CONSTRUCTION ACTIVITIES AND SHALL BE RESPONSIBLE FOR THE PLACEMENT AND MAINTENANCE OF ALL BMPs PRIOR TO ANY CONSTRUCTION ACTIVITIES OCCURRING AND THROUGHOUT THE DURATION OF THE PROJECT. REFER TO SPECIFICATION SECTION 01 57 23. AS DESIGNED, THE PROJECT DISTURBS LESS THAN 1 ACRE AND IS THEREFORE EXEMPT FROM IMPLEMENTING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP). HOWEVER, IF THE CONTRACTOR'S WORK INCLUDING THE CONTRACTOR'S STAGING AREA EXCEEDS 1 ACRE, THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT THEIR OWN WATER POLLUTION CONTROL PLAN OR SWPPP.
- CONTRACTOR SHALL BE RESPONSIBLE TO FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS AND THE EXTENT OF CLEARING REQUIRED TO PERFORM THE WORK. CLEARING SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS.
- CONTRACTOR SHALL MINIMIZE CLEARING AND GRUBBING ACTIVITIES ONLY TO THE EXTENT REQUIRED TO PERFORM THE WORK. CONTRACTOR SHALL PROTECT ALL EXISTING TREES IN PLACE.
- ALL DEBRIS, BRUSH, AND RUBBISH WITHIN THE WORK AREA SHALL BE REMOVED AND DISPOSED OF DAILY, EXCEPT AS OTHERWISE REQUIRED. SAID MATERIALS SHALL BE LEGALLY DISPOSED OF IN AN APPROVED OFFSITE LOCATION. WHERE REMOVAL OF SUBSURFACE OBSTRUCTIONS IS NECESSARY, CAVITIES CREATED BY THE REMOVAL SHALL BE CLEARED OF ALL LOOSE DEBRIS AND SOIL AND SHAPED TO PROVIDE ACCESS FOR BACKFILLING AND COMPACTION EQUIPMENT.
- CONTRACTOR SHALL RESTORE DISTURBED EARTH UPON COMPLETION OF THE SITE WORK.
- EXISTING CONTOURS ARE SHOWN AT ± 1'.

CONSTRUCTION NOTES:

- 8" PVC C900 DR-18 PER SPECIFICATION 33 11 13
- THRUST BLOCK PER DETAILS
- 8" GATE VALVE PER DETAILS
- 8" 11.25' BEND
- 8" 22.5' BEND
- 8" 45' BEND
- 8" 90' BEND
- 8" X 8" TAPPING SLEEVE
- 8" X 10" TEE
- 2" AIR VAC PER DETAILS
- 2" BLOW-OFF PER DETAILS
- REPLACE ASPHALT DRIVEWAY IN KIND FROM EDGE OF ROADWAY PAVEMENT TO 2- FEET BEYOND THE EDGE OF THE TRENCH FOR THE NEW WATERLINE PER COUNTY OF SAN LUIS OBISPO STD. DWG B-1A. IF DRIVEWAY ASPHALT IS DAMAGED BY CONSTRUCTION OPERATION, REMOVE AND REPLACE DAMAGED ASPHALT. DRIVEWAY SHALL BE REPLACED IN FULL CONTIGUOUS SECTIONS WITH SAWCUTS PERPENDICULAR TO THE DRIVEWAY, PIECEMEAL REPAIR WILL NOT BE ALLOWED.
- RESTRAIN ALL FITTINGS AND PIPE JOINTS
- 2-SACK SLURRY BACKFILL PER COUNTY OF SAN LUIS OBISPO STD. DWG. U-4.
- REPLACE ASPHALT DRIVEWAY IN KIND FROM EDGE OF ROADWAY PAVEMENT TO 2- FEET BEYOND THE EDGE OF THE TRENCH FOR THE NEW WATERLINE PER COUNTY OF SAN LUIS OBISPO STD. DWG B-1A. IF DRIVEWAY ASPHALT IS DAMAGED BY CONSTRUCTION OPERATION, REMOVE AND REPLACE DAMAGED ASPHALT. DRIVEWAY SHALL BE REPLACED IN FULL CONTIGUOUS SECTIONS WITH SAWCUTS PERPENDICULAR TO THE DRIVEWAY, PIECEMEAL REPAIR WILL NOT BE ALLOWED.

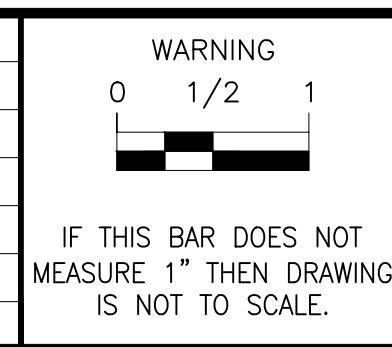
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ENGINEER  DATE 1/28/21


RECORD DRAWING

Path: W:\3.0 Projects\Los Osos CSD\Southbay Well Piping Design\6.0 Working Files\CAD Filename: 04_C-3.dwg Plot Date: January 28, 2021 10:24 AM CADD User: Lauren Cetin

REV	DATE	BY	DESCRIPTION
1	1/28/21	WSC	RECORD DRAWING
2	9/16/20	WSC	CONFORMED PER ADDENDUM



DESIGNED M JG
DRAWN PMD/CJD
CHECKED CGD
SCALE NO SCALE

PREPARED BY:

MICHAEL J. GOYMERAC
RCE No.: 84894
DATE 6/24/20
ORIGINAL STAMPED BY MICHAEL J. GOYMERAC RCE No.: 84894



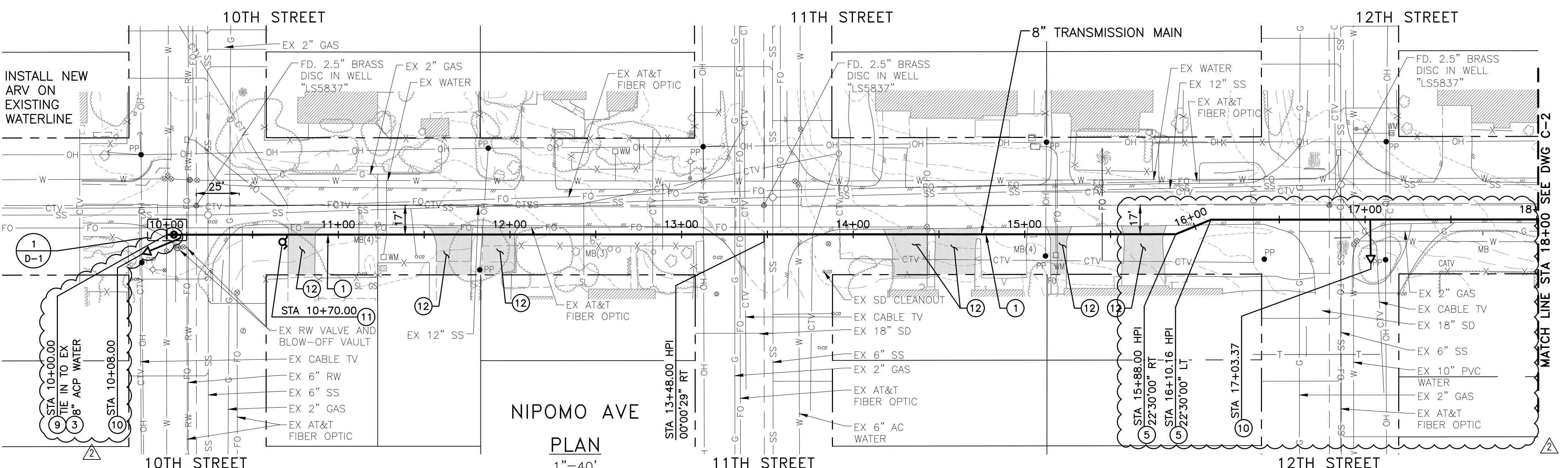
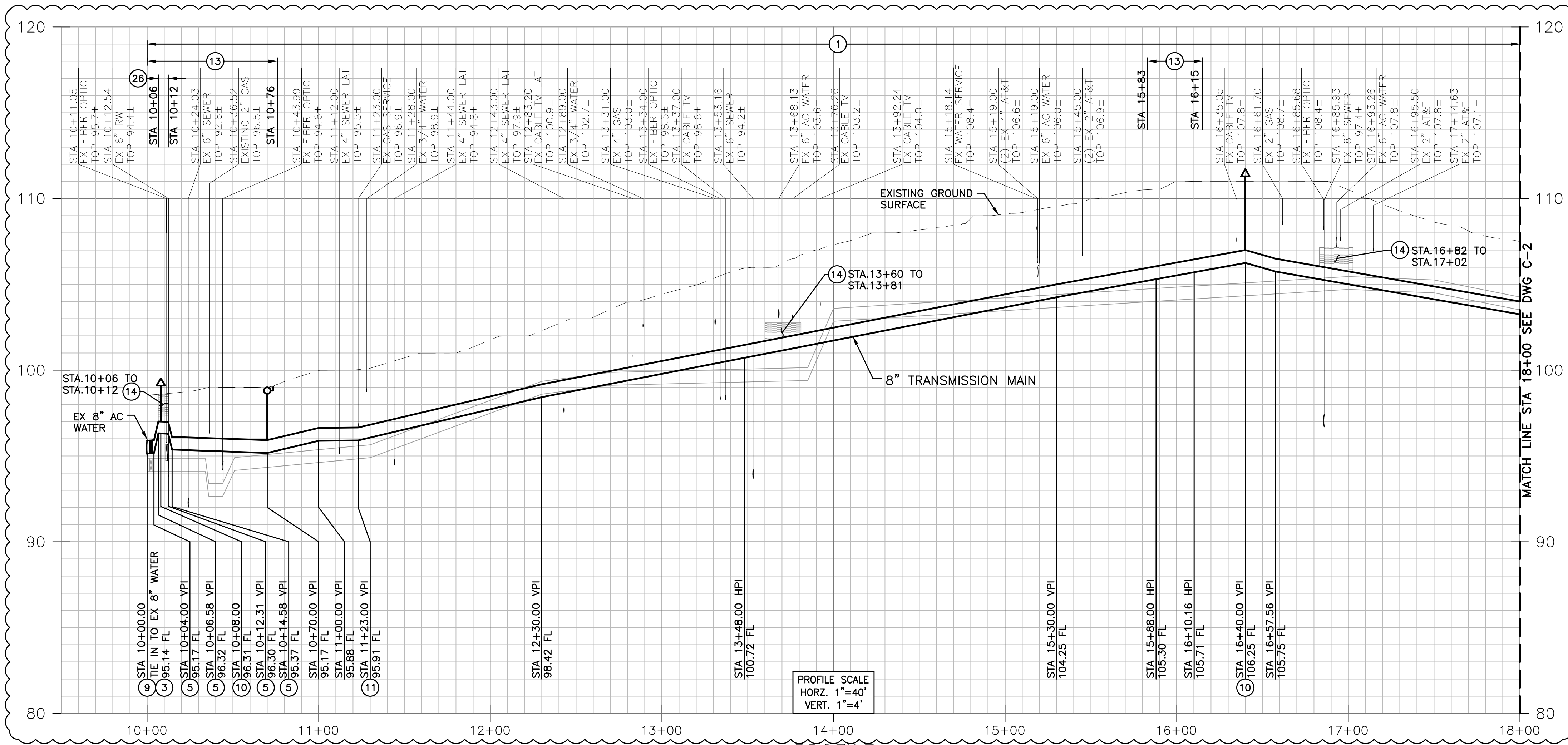
805 AEROVISTA PLACE, SUITE 201 SAN LUIS OBISPO, CA 93401
PHONE: (805) 457-8833 FAX: (805) 888-2764

LOS OSOS COMMUNITY SERVICES DISTRICT
2122 9TH STREET, SUITE 110
LOS OSOS, CA 93402
APPROVED: _____ DATE _____
RON MUNDS - GENERAL MANAGER

SOUTH BAY WELL SITE WATER TRANSMISSION
MAIN TO MAIN PRESSURE ZONE
GENERAL AND CONSTRUCTION NOTES

DRAWING
G-3
SHEET 4 OF 10
PROJECT #

Path: W:\3.0 Projects\Los Osos CSD\Southbay Well Piping Design\6.0 Working Files\CAD Filename: 05-07_C-1 To C-3.dwg Plot Date: January 28, 2021 - 10:24 AM CADD User: Lauren Cetin



- ### CONSTRUCTION NOTES
- ① 8" PVC C900 DR-18 PER SPECIFICATION 33 11 13
 - ③ 8" GATE VALVE PER DETAILS
 - ④ 8" 11.25" BEND
 - ⑤ 8" 22.5" BEND
 - ⑨ 8" X 10" TEE
 - ⑩ 2" AIR VAC PER DETAILS
 - ⑪ 2" BLOW-OFF PER DETAILS
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 - ⑬ RESTRAIN ALL FITTINGS AND PIPE JOINTS
 - ⑭ 2-SACK SLURRY BACKFILL PER COUNTY OF SAN LUIS OBISPO STD. DWG. U-4.
 - ⑳ FOR SHALLOW BURY, USE 8" DIP PRESSURE CLASS 350 WITH MINIMUM PIPE WALL THICKNESS OF 0.25"

- ### GENERAL SHEET NOTES
1. ALL HORIZONTAL AND VERTICAL CHANGES IN PIPE ALIGNMENT DELINEATED ON THE PLANS AS SHOWN WITHOUT FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR PIPE DEFLECTION. LIMIT JOINT DEFLECTION TO 80% OF MANUFACTURER'S ALLOWABLE DEFLECTION. IF DESIRED DEFLECTION CANNOT BE ACHIEVED AT PIPE JOINT, CONTRACTOR SHALL USE HIGH DEFLECTION COUPLINGS OR APPROPRIATE MINIMAL DEGREE BENDS, SEE SPECIFICATION 33 11 13.
 2. DEPTHS AND LOCATIONS OF EXISTING UTILITIES ARE SHOWN AS APPROXIMATE. CONTRACTOR TO POT HOLE AND VERIFY IN ACCORDANCE WITH SPECIFICATION 02 01 20.
 3. CROSSINGS WITH SD, RW, AND SS SHOULD INTERSECT PERPENDICULARLY AND HAVE A MINIMUM VERTICAL CLEARANCE PER SECTION 64572 TITLE 22 CA CODE OF REGULATIONS.
 4. CURRENT ALIGNMENT IS SHOWN IN COUNTY RIGHT OF WAY WITH ESTABLISHED RESIDENTIAL DRIVEWAYS, MAILBOXES, LANDSCAPING, AND OTHER DECORATIVE FEATURES. ANY OBSTRUCTIONS SUCH AS THESE WHICH ARE REMOVED, DAMAGED, OR DESTROYED ON THE COURSE OF THE WORK, SHALL BE REPLACED OR REPAIRED TO THE ORIGINAL CONDITION. REPLACEMENT OF THESE FEATURES SHALL MATCH LOCATION, COLOR, SIZE, AND SHAPE WITH EXISTING. REPLACEMENT SHALL BE AT DISCRETION OF THE DISTRICT AND COSTS SHALL BE BORE ON CONTRACTOR. RETAINING WALLS AND FENCES SHALL BE PROTECTED IN PLACE.
 5. MINIMUM COVER OF 36" FOR 8" DIAMETER PVC PER COUNTY OF SAN LUIS OBISPO STD. DWG. U-1.

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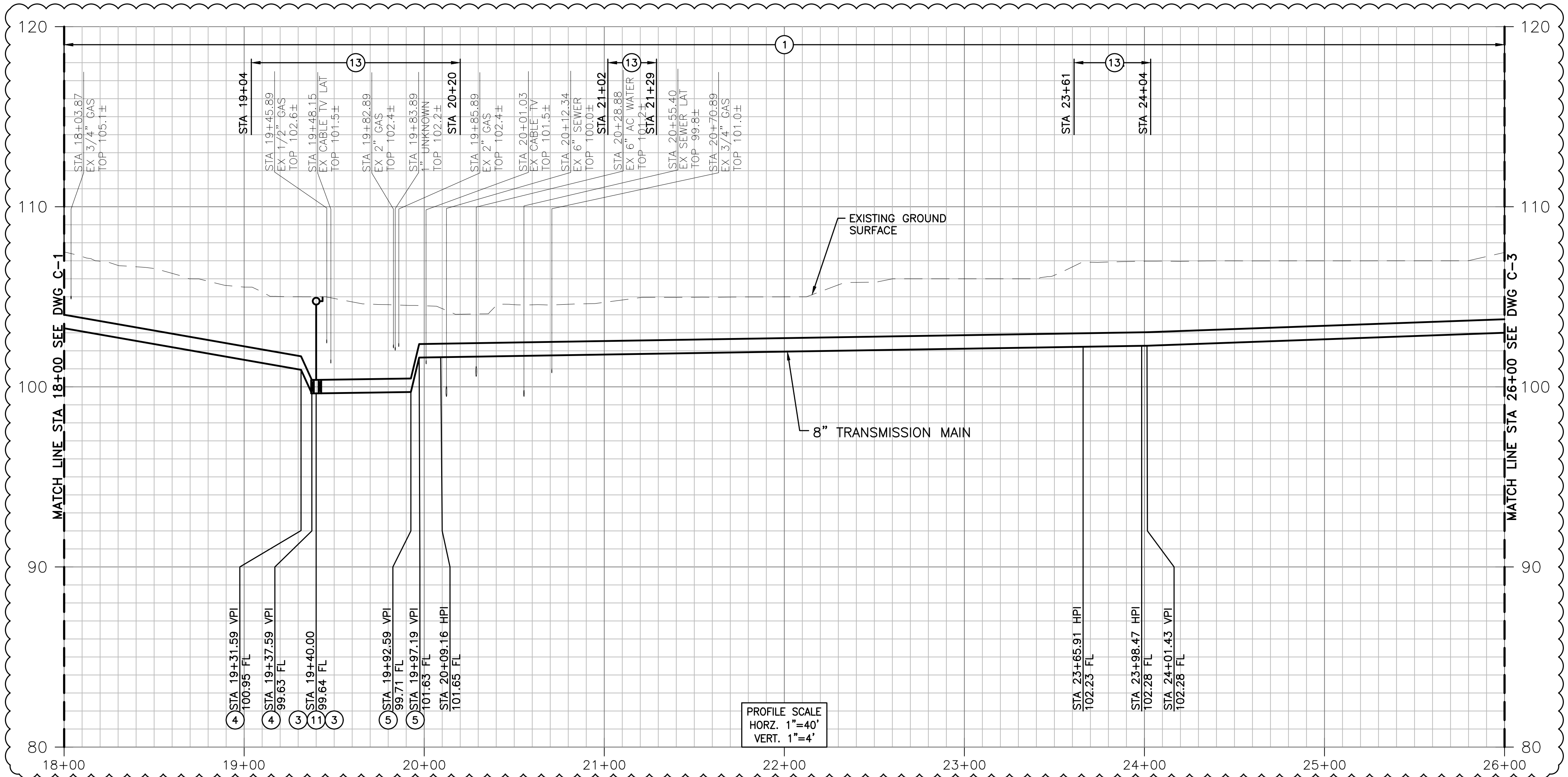
ENGINEER: *[Signature]* 1/28/21
 DATE

48 hours BEFORE excavation
 1-800-422-4133
 CALL Underground Service Alert

RECORD DRAWING

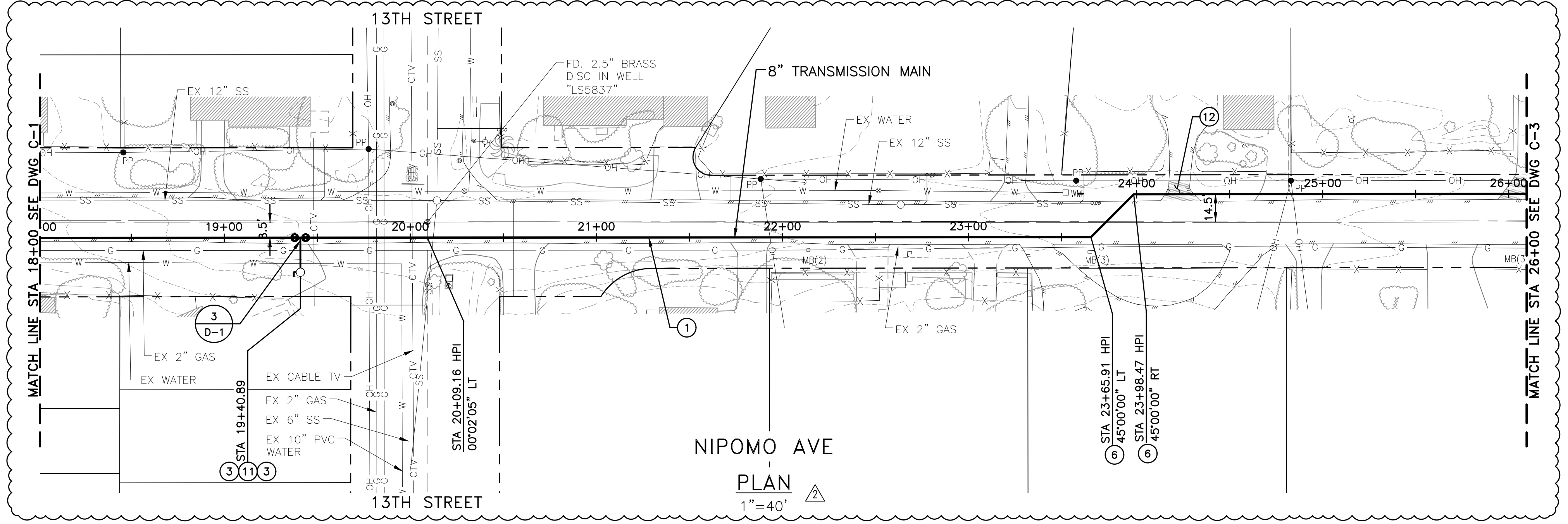
DESIGNED: M/JG DRAWN: PMD/CJD CHECKED: CGD SCALE: AS NOTED		PREPARED BY: <i>[Signature]</i> MICHAEL J. GOYMERAC RCE No.: 84894 DATE: 6/24/20		WSC WATER SYSTEMS CONSULTING, INC. 805 AEROVISTA PLACE, SUITE 201 SAN LUIS OBISPO, CA 93401 PHONE: (805) 457-8833 FAX: (805) 888-2764		LOS OSOS COMMUNITY SERVICES DISTRICT 2122 9TH STREET, SUITE 110 LOS OSOS, CA 93402 APPROVED: RON MUNDS - GENERAL MANAGER DATE:		SOUTH BAY WELL SITE WATER TRANSMISSION MAIN TO MAIN PRESSURE ZONE DRAWING C-1 SHEET 5 OF 10 PROJECT #	
1/28/21 WSC RECORD DRAWING	9/16/20 WSC CONFORMED PER ADDENDUM	WARNING IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.		PLAN AND PROFILE STA 10+00 TO 18+00					

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PROFILE SCALE
HORZ. 1"=40'
VERT. 1"=4'

PROFILE



PLAN
1"=40'

CONSTRUCTION NOTES

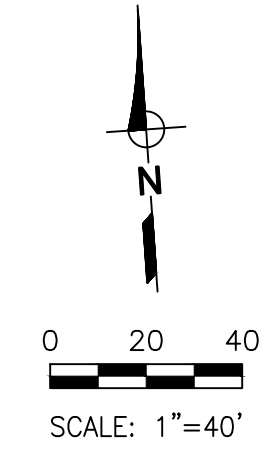
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ENGINEER *MCA* 1/28/21
DATE



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1-800-422-4133
CALL Underground Service Alert

RECORD DRAWING

REV	DATE	BY	DESCRIPTION
1	1/28/21	WSC	RECORD DRAWING
2	9/16/20	WSC	CONFORMED PER ADDENDUM

WARNING
0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

DESIGNED M/JG
DRAWN PMD/CJD
CHECKED CGD
SCALE AS NOTED

PREPARED BY:
MCA
MICHAEL J. GOYMERAC
RCE No.: 84894
DATE 6/24/20

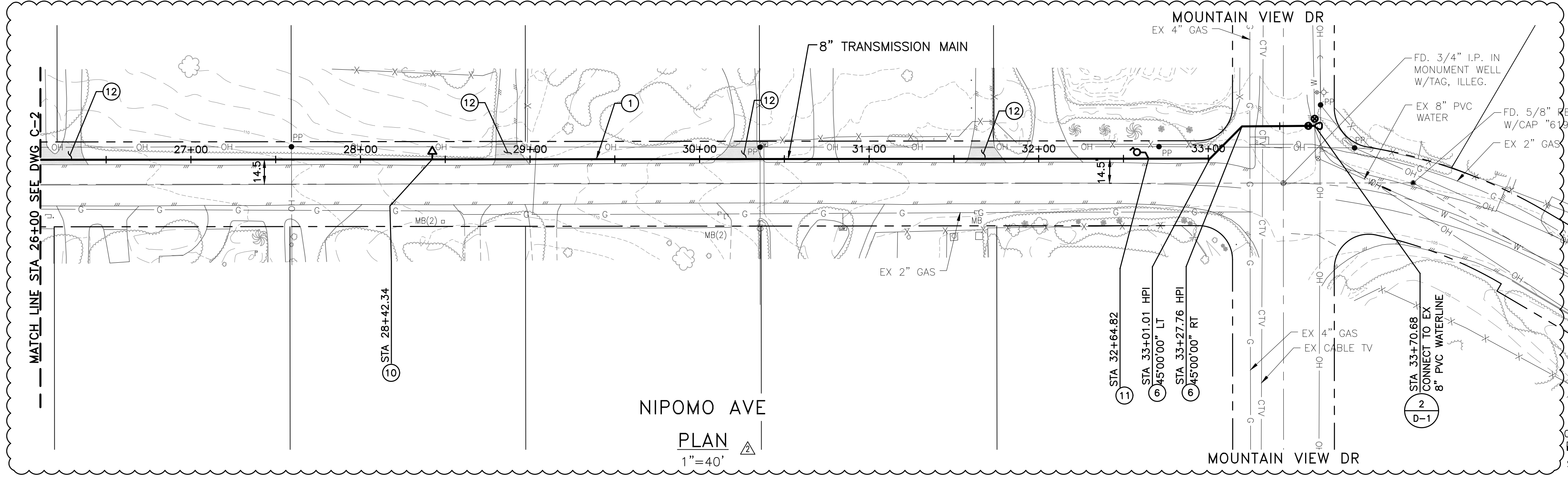
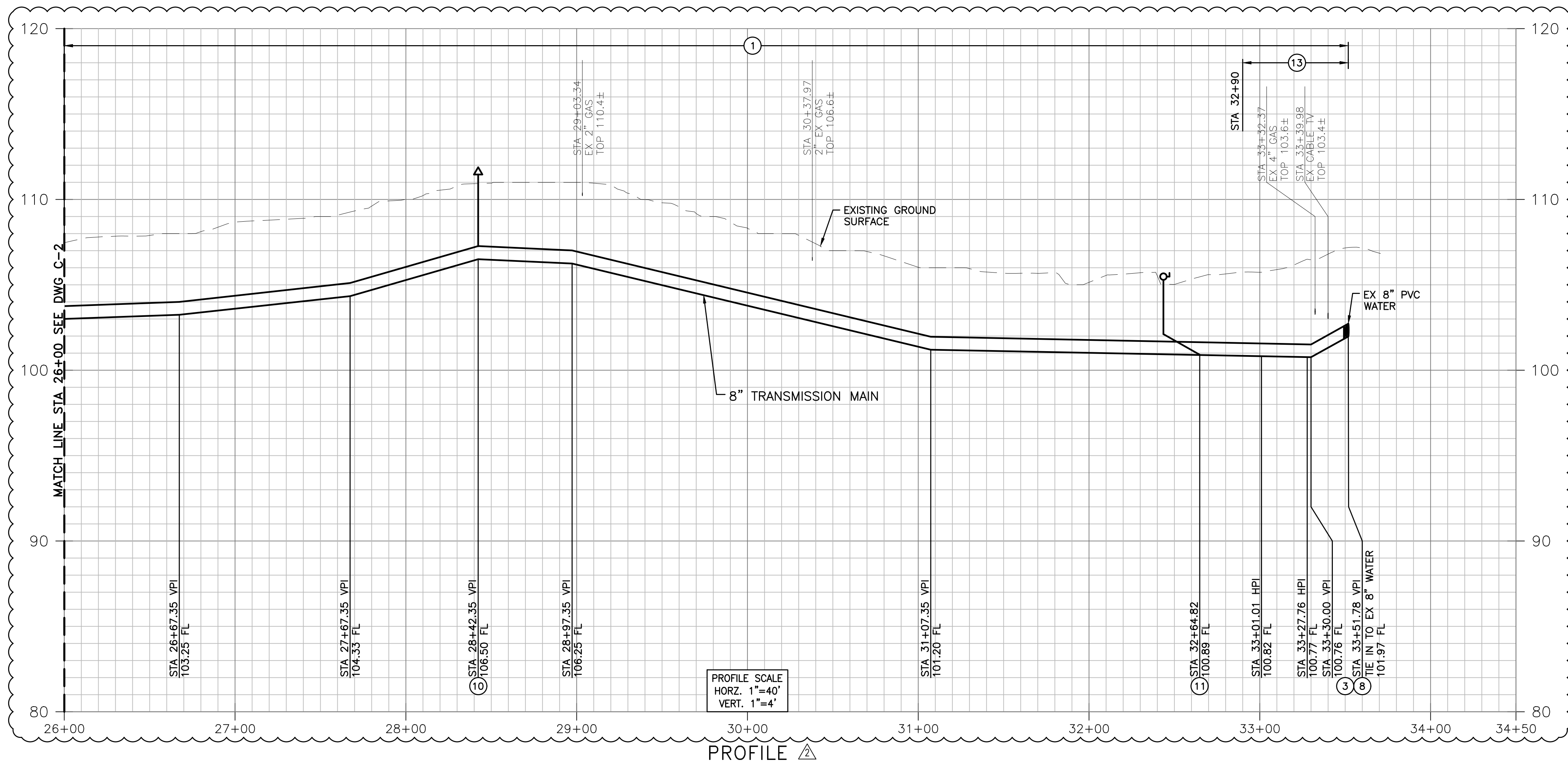
WSC
WATER SYSTEMS CONSULTING, INC.
805 AEROVISTA PLACE, SUITE 201 SAN LUIS OBISPO, CA 93401
PHONE: (805) 457-8833 FAX: (805) 888-2764

LOS OSOS COMMUNITY SERVICES DISTRICT
2122 9TH STREET, SUITE 110
LOS OSOS, CA 93402
APPROVED: _____
DATE _____
RON MUNDS - GENERAL MANAGER

SOUTH BAY WELL SITE WATER TRANSMISSION
MAIN TO MAIN PRESSURE ZONE
PLAN AND PROFILE
STA 18+00 TO 26+00

DRAWING
C-2
SHEET 6 OF 10
PROJECT #

Path: W:\3.0 Projects\Los Osos CSD\Southbay Well Piping Design\6.0 Working Files\CAD File: 05-07-C-1 To C-3.dwg Plot Date: January 28, 2021 10:24 AM CADD User: Lauren Cetin



- CONSTRUCTION NOTES**
- ① 8" PVC C900 DR-18 PER SPECIFICATION 33 11 13
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ENGINEER: *[Signature]* DATE: 1/28/21

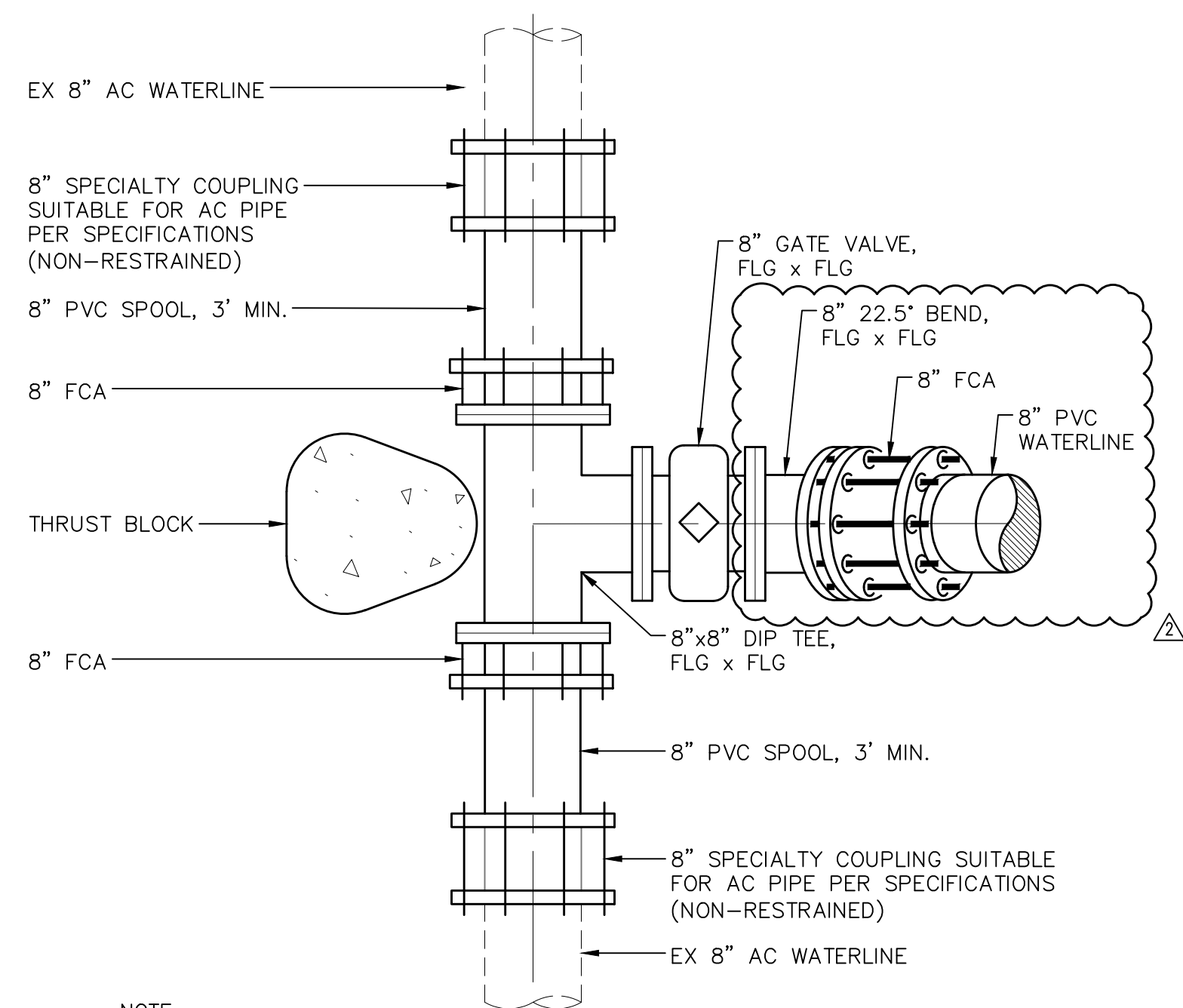
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 CALL Underground Service Alert

RECORD DRAWING

1/28/21 WSC RECORD DRAWING 9/16/20 WSC CONFORMED PER ADDENDUM		DESIGNED: MJG DRAWN: PMD/CJD CHECKED: CGD SCALE: AS NOTED		PREPARED BY: <i>[Signature]</i> MICHAEL J. GOYMERAC RCE No.: 84894 DATE: 6/24/20		WATER SYSTEMS CONSULTING, INC. 805 AEROVISTA PLACE, SUITE 201 SAN LUIS OBISPO, CA 93401 PHONE: (805) 457-8833 FAX: (805) 888-2764		LOS OSOS COMMUNITY SERVICES DISTRICT 2122 9TH STREET, SUITE 110 LOS OSOS, CA 93402 APPROVED: _____ DATE: _____ RON MUNDS - GENERAL MANAGER		SOUTH BAY WELL SITE WATER TRANSMISSION MAIN TO MAIN PRESSURE ZONE PLAN AND PROFILE STA 26+00 TO 34+00±		DRAWING C-3 SHEET 7 OF 10 PROJECT #	
--	--	--	--	--	--	---	--	--	--	---	--	---	--

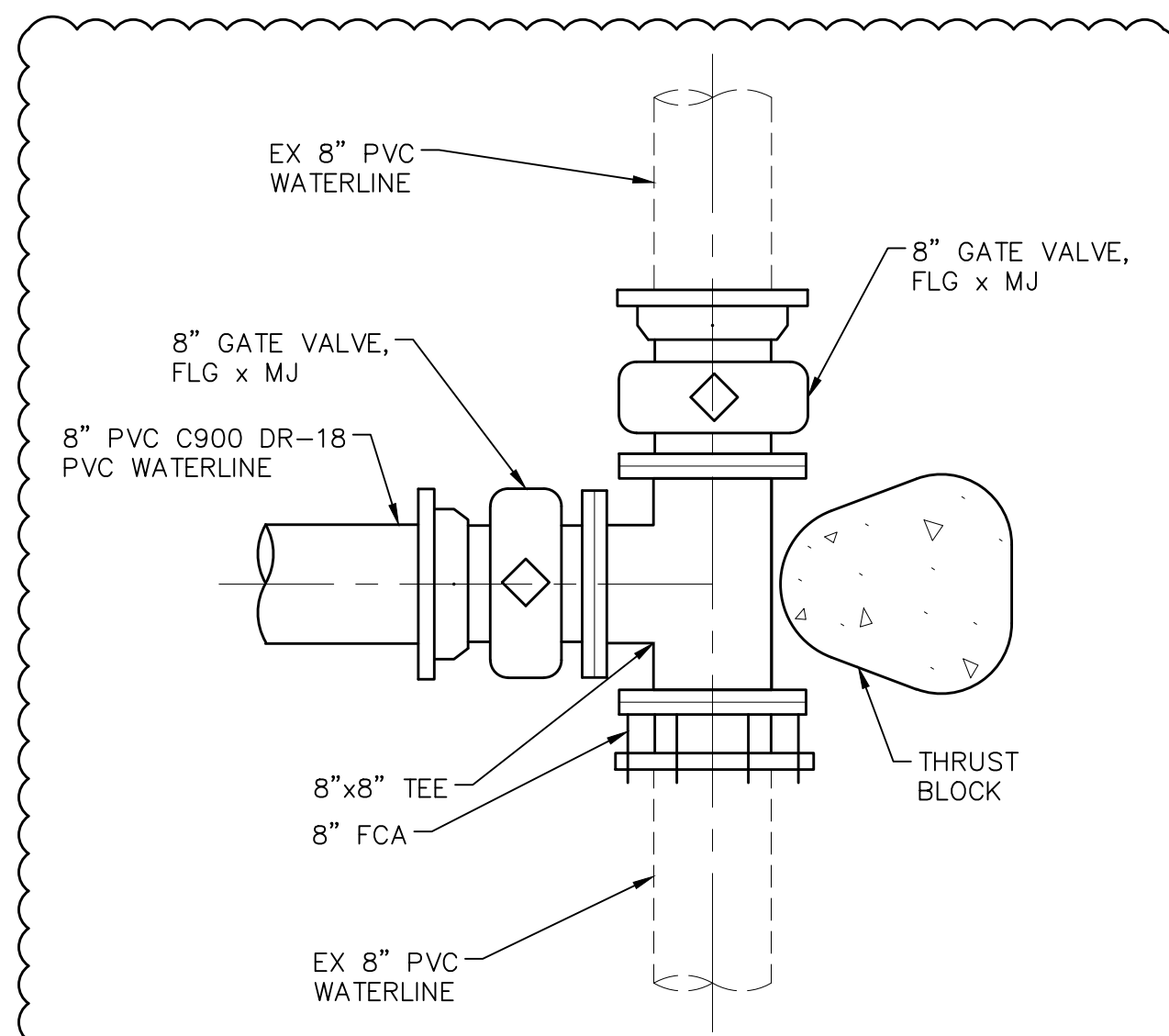
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ENGINEER *MJM* 1/28/21
DATE



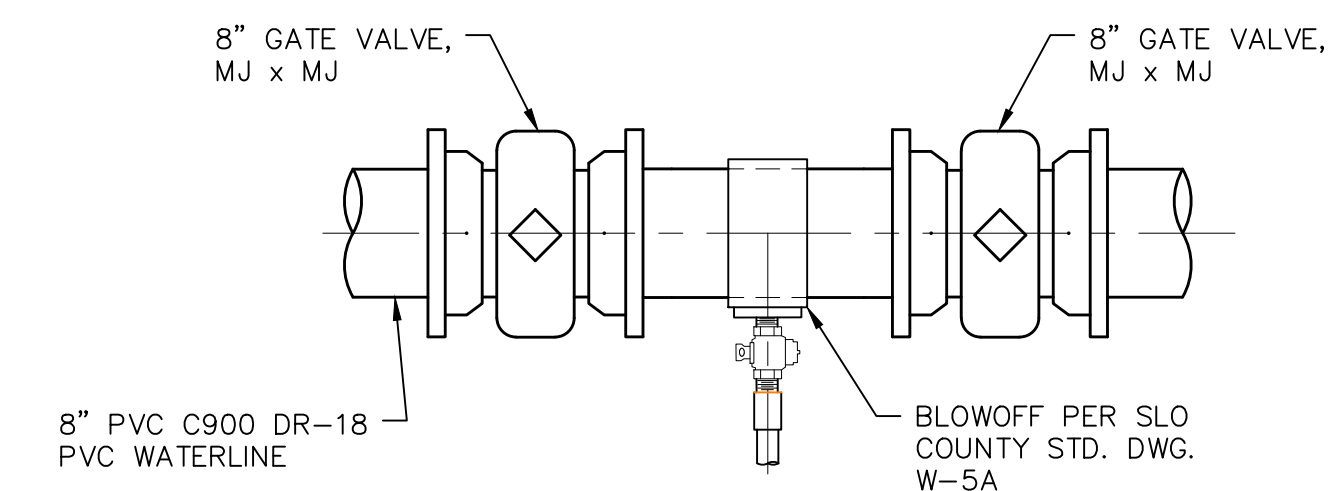
NOTE:
1. ALL JOINTS SHALL BE RESTRAINED, EXCEPT WHERE NOTED.

CONNECTION DETAIL
SCALE: N.T.S.

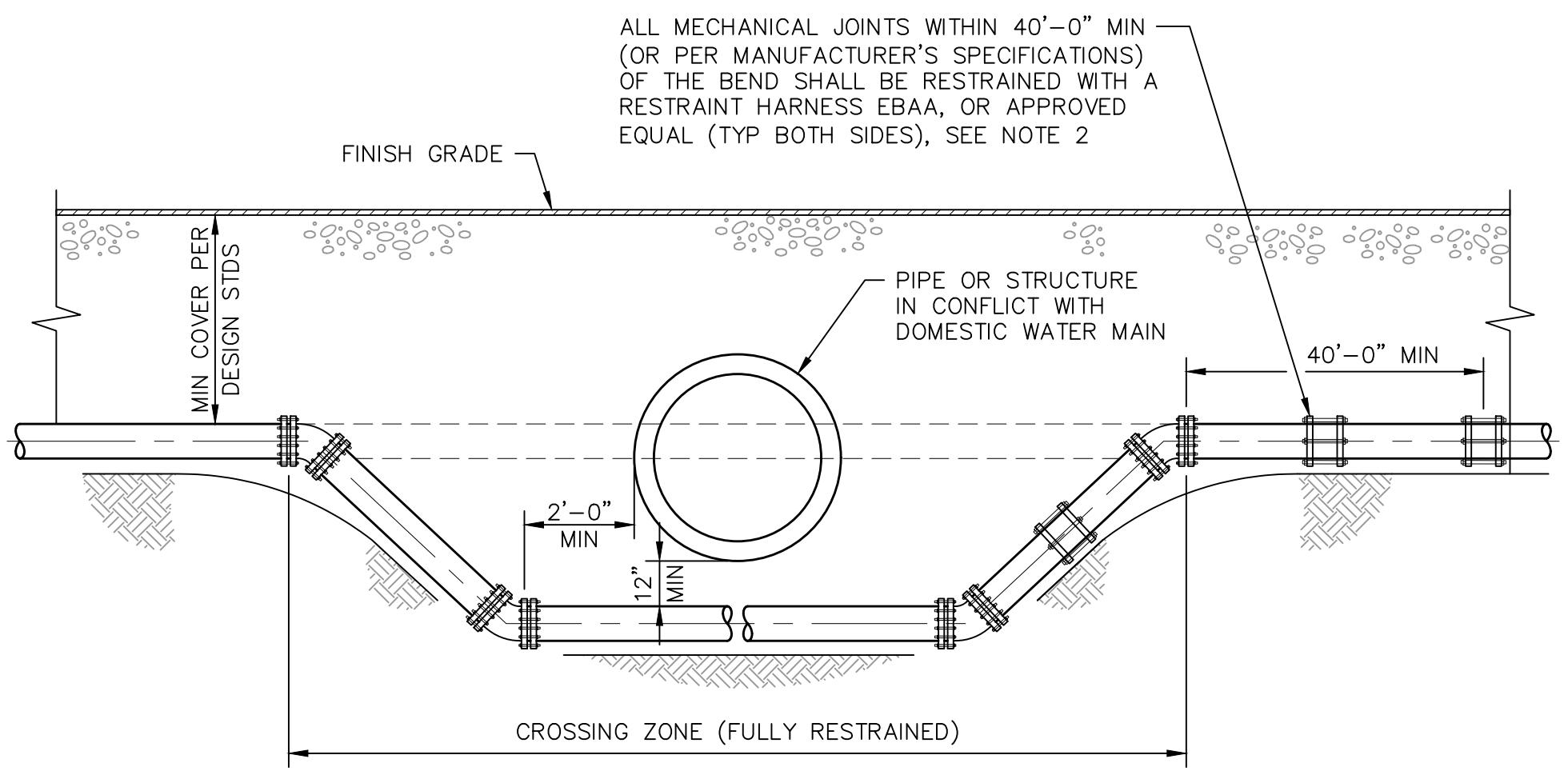


NOTE:
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CONNECTION DETAIL
SCALE: N.T.S.

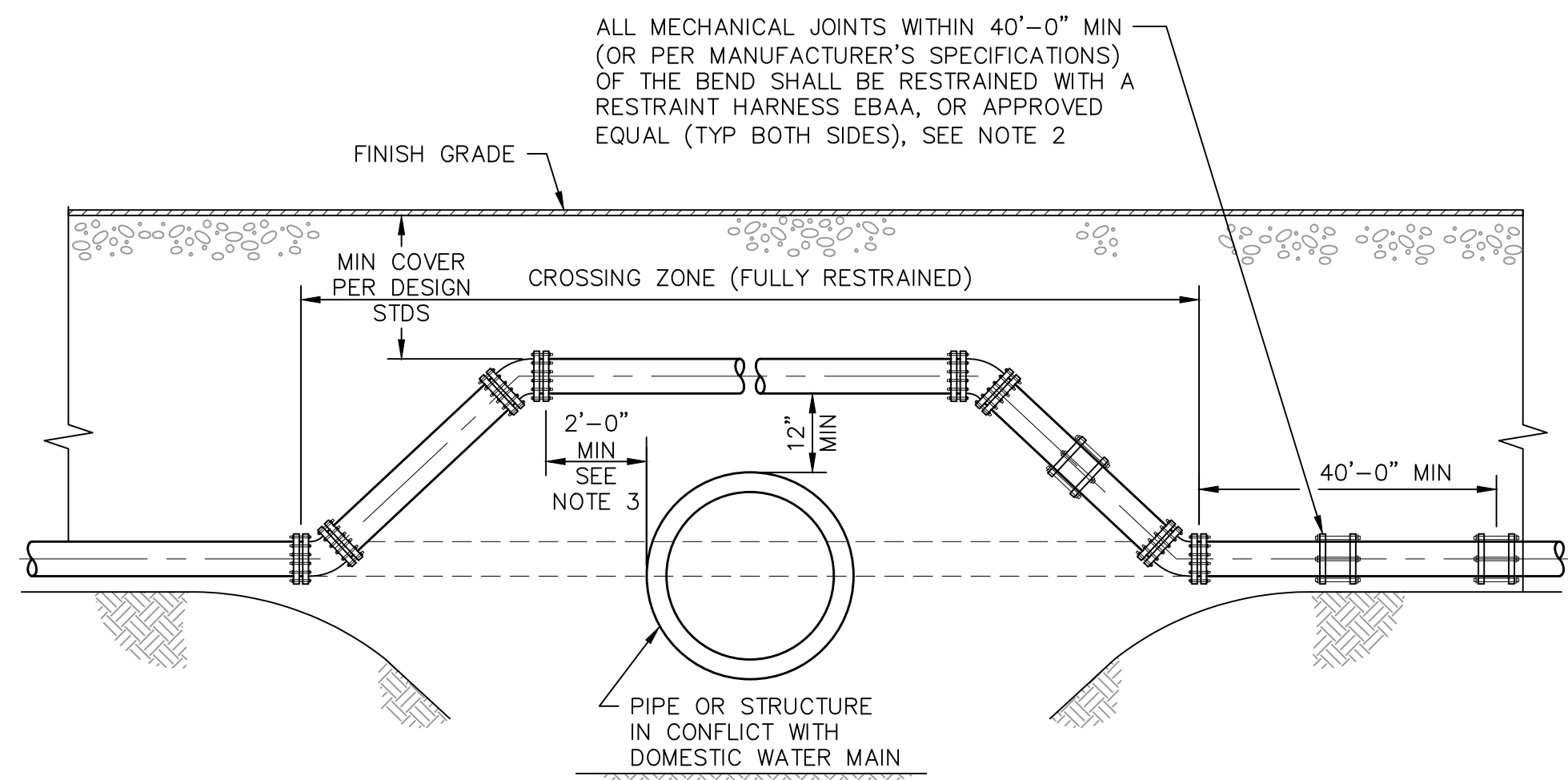


BLOWOFF DETAIL
SCALE: N.T.S.



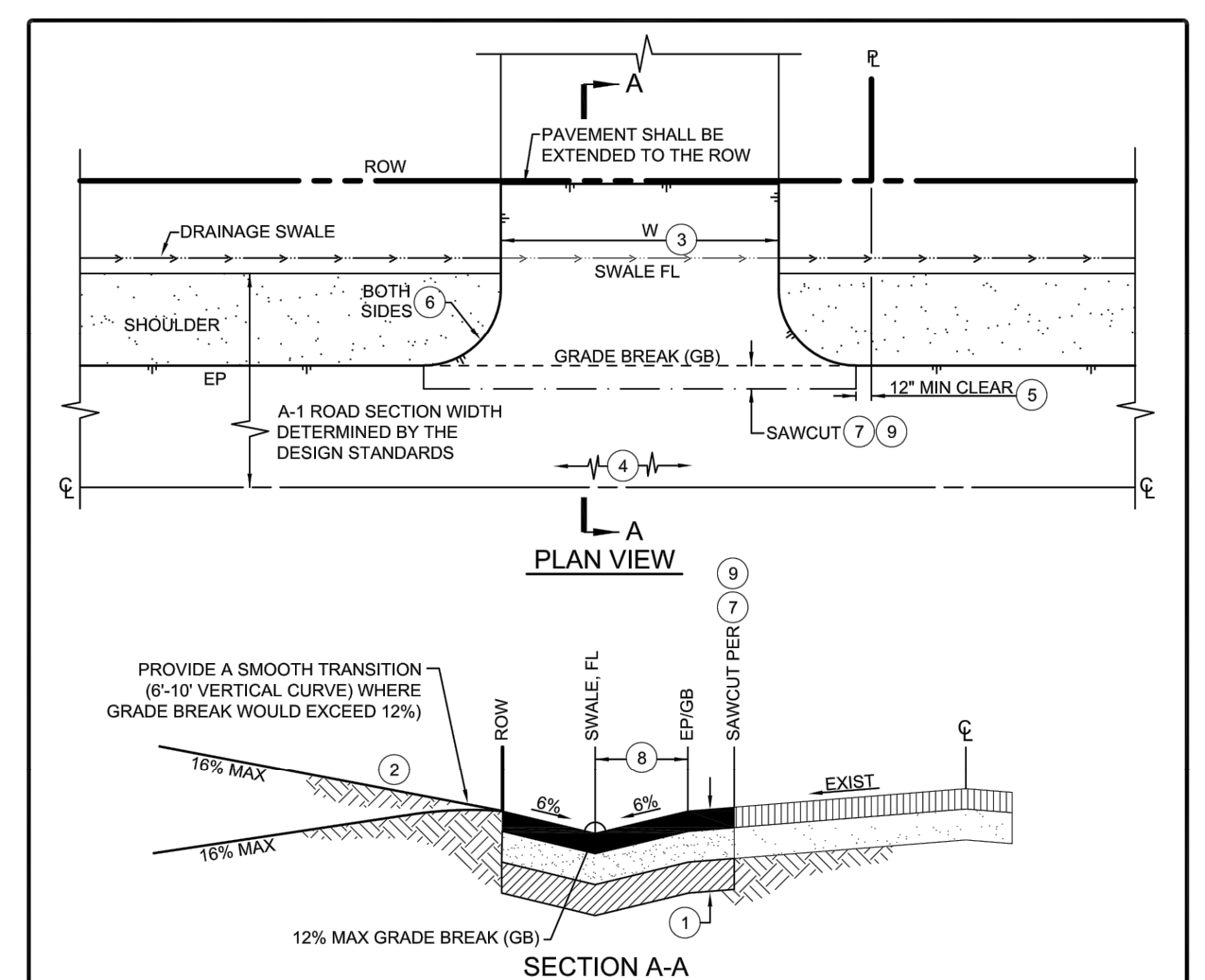
NOTES:
1. USE SMALLEST STANDARD DEGREE FITTING AS REQUIRED FOR PROPER VERTICAL SEPARATION, UNLESS OTHERWISE SHOWN ON PLAN.
2. FOR DIP OR PVC, MECHANICAL JOINT RESTRAINTS SHALL BE EBAA MEGALUG SERIES 2000PV, OR APPROVED EQUAL.
3. UNLESS OTHERWISE NOTED ON PLANS, DOMESTIC WATER LINE SHALL NOT CROSS UNDER SEWER, STORM, OR RECYCLED WATER LINES, UNLESS CASING IS PROVIDED. SEE UTILITY CROSSING DETAIL 2.
4. TRENCH BACKFILL FOR UTILITY CROSSING SHALL BE 2-SACK CEMENT SAND SLURRY IN ACCORDANCE WITH NOTE 7 IN SAN LUIS OBISPO COUNTY STANDARD DETAIL U-4 (SEE SHEET SD-1). SLURRY BACKFILL SHALL EXTEND VERTICALLY 6IN BELOW LOWEST AND 6IN ABOVE HIGHEST UTILITY OR PIPE, AND SHALL EXTEND HORIZONTALLY 2FT MIN FROM FURTHEST OUTSIDE BENDS.

UTILITY CROSSING DETAIL
SCALE: N.T.S.



NOTES:
1. USE SMALLEST STANDARD DEGREE FITTING AS REQUIRED FOR PROPER VERTICAL SEPARATION, UNLESS OTHERWISE SHOWN ON PLAN.
2. FOR DIP OR PVC, MECHANICAL JOINT RESTRAINTS SHALL BE EBAA MEGALUG SERIES 2000PV, OR APPROVED EQUAL.
3. WATER PIPELINE CROSSINGS OVER UTILITIES MUST HAVE A 1-FOOT VERTICAL CLEARANCE BETWEEN WATER PIPE AND UTILITY, UNLESS APPROVED BY ENGINEER. PIPELINES CROSSING OVER SEWER OR STORM UTILITIES MUST MEET MINIMUM CLEARANCE REQUIREMENTS AND ANGLE OF APPROACH AS REQUIRED BY THE CALIFORNIA WATER BOARD - DIVISION OF DRINKING WATER. SEE UTILITY SEPARATION CRITERIA IN SAN LUIS OBISPO COUNTY STANDARD DETAILS U-3A AND U-3B (SEE SHEET SD-1).
4. TRENCH BACKFILL FOR UTILITY CROSSING SHALL BE 2-SACK CEMENT SAND SLURRY IN ACCORDANCE WITH NOTE 7 IN SAN LUIS OBISPO COUNTY STANDARD DETAIL U-4 (SEE SHEET SD-1). SLURRY BACKFILL SHALL EXTEND VERTICALLY 6IN BELOW LOWEST AND 6IN ABOVE HIGHEST UTILITY OR PIPE, AND SHALL EXTEND HORIZONTALLY 2FT MIN FROM FURTHEST OUTSIDE BENDS.

UTILITY CROSSING DETAIL
SCALE: N.T.S.

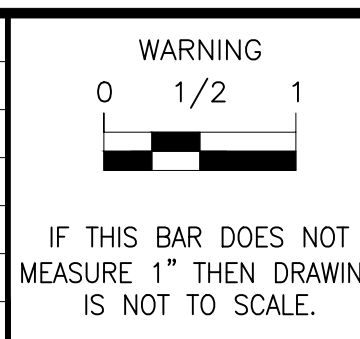


NOTES:
1. WITHIN THE PUBLIC RIGHT-OF-WAY, THE DRIVEWAY SECTION SHALL MATCH THE APPROVED ROAD SECTION, OR SHALL MATCH THE EXISTING ROAD SECTION, AND SHALL MEET THE FOLLOWING REQUIREMENTS:
HOT MIX ASPHALT (HMA) PER THE DESIGN STANDARDS TO 95% RELATIVE COMPACTION, OVER
CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION, OVER
12" MINIMUM SUBGRADE TO 95% RELATIVE COMPACTION
2. OUTSIDE THE PUBLIC RIGHT-OF-WAY, THE DRIVEWAY STRUCTURAL SECTION SHALL BE DETERMINED BY THE PROJECT DESIGNER AND SHALL BE IN COMPLIANCE WITH CDPF/FIRE REGULATIONS.
3. RESIDENTIAL DRIVEWAY WIDTH SHALL BE 10' MINIMUM TO 22' MAXIMUM. COMMERCIAL/INDUSTRIAL DRIVEWAY WIDTH SHALL BE 12-FOOT MINIMUM TO 35-FOOT MAXIMUM. ALL DRIVEWAYS SHALL MEET FIRE AGENCY REGULATIONS.
4. REFER TO A-5 SERIES STANDARD DRAWINGS FOR DRIVEWAY SIGHT DISTANCE REQUIREMENTS.
5. THE END OF DRIVEWAY RETURN SHALL BE 1-FOOT MINIMUM CLEAR FROM THE PROPERTY LINE.
6. THE DRIVEWAY RETURN SHALL HAVE A RADIUS OF 5-FOOT FOR RESIDENTIAL (ALTERNATIVE: 5-FOOT CHAMFER), AND A RADIUS OF 10-FOOT FOR COMMERCIAL/INDUSTRIAL (ALTERNATIVE: 10-FOOT CHAMFER).
7. FOR NEW DRIVEWAY CONSTRUCTION AGAINST EXISTING ROADWAY, SAWCUT TO REMOVE EXISTING ROADWAY AND RECONSTRUCT PER DRAWINGS R-1 AND R-2.
8. DISTANCE TO MATCH ROADSIDE DRAINAGE SWALE PER SERIES A-1 DRAWING REQUIREMENTS.
9. AFTER PAVING, APPLY 55# OIL (OR APPROVED EQUAL) TO ALL SURFACE SEAMS.

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS
RURAL DRIVEWAY
FOR EDGE OF PAVEMENT (NO DIKE)
Scale: 1"=10'
Revision No: B-1a

Path: W:\3.0 Projects\Los Osos CSD\Southbay Well Piping Design\6.0 Working Files\CAD Filename: 08_D-1.dwg Plot Date: January 28, 2021 10:25 AM CADD User: Lauren Cetin

REV	DATE	BY	DESCRIPTION
1	1/28/21	WSC	RECORD DRAWING
2	9/16/20	WSC	CONFORMED PER ADDENDUM



DESIGNED: MJG
DRAWN: PMD/CJD
CHECKED: CGD
SCALE: NO SCALE

PREPARED BY:
MICHAEL J. GOYMERAC
RCE No.: 84894
DATE: 6/24/20
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SOUTH BAY WELL SITE WATER TRANSMISSION
MAIN TO MAIN PRESSURE ZONE
PROJECT DETAILS
DRAWING D-1
SHEET 8 OF 10
PROJECT #

RECORD DRAWING

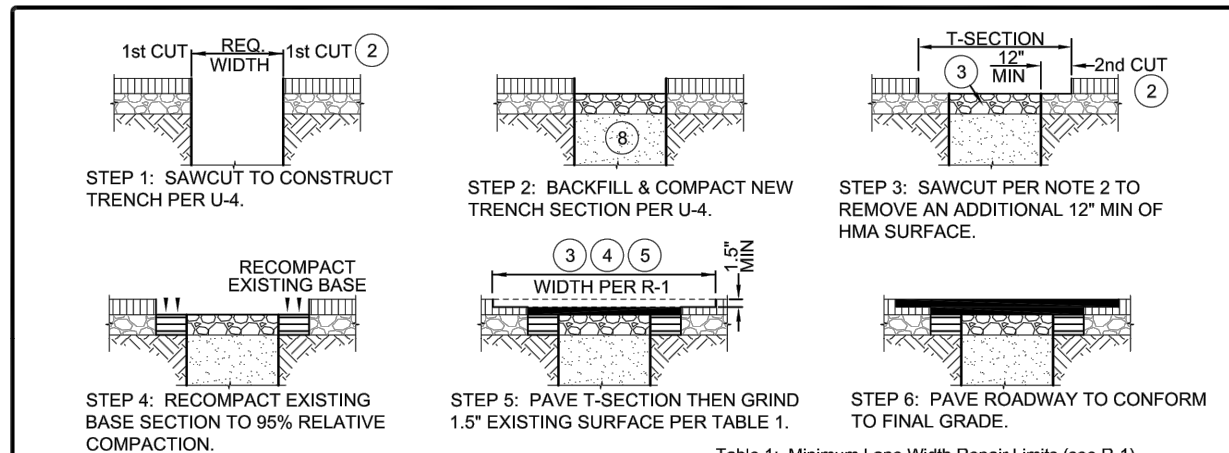
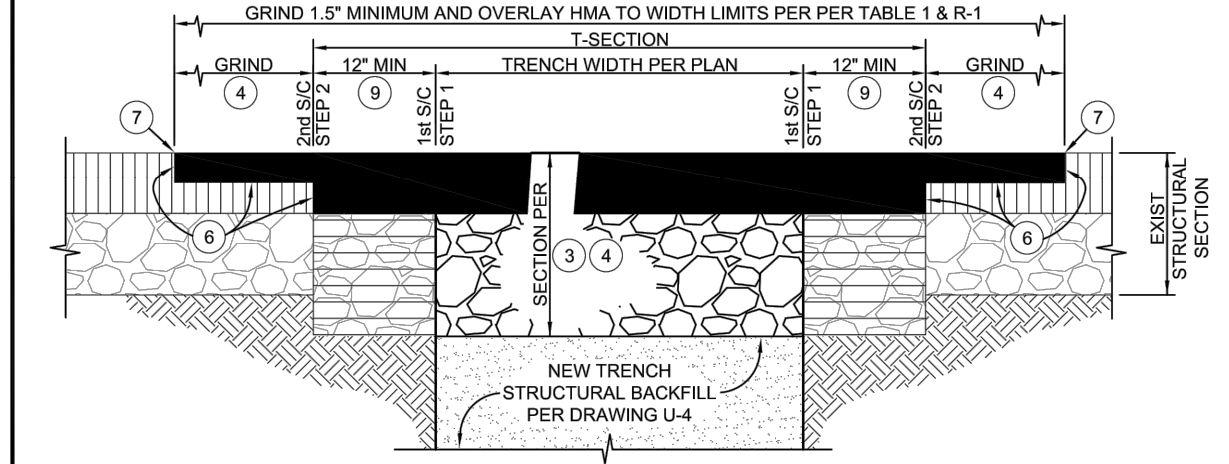


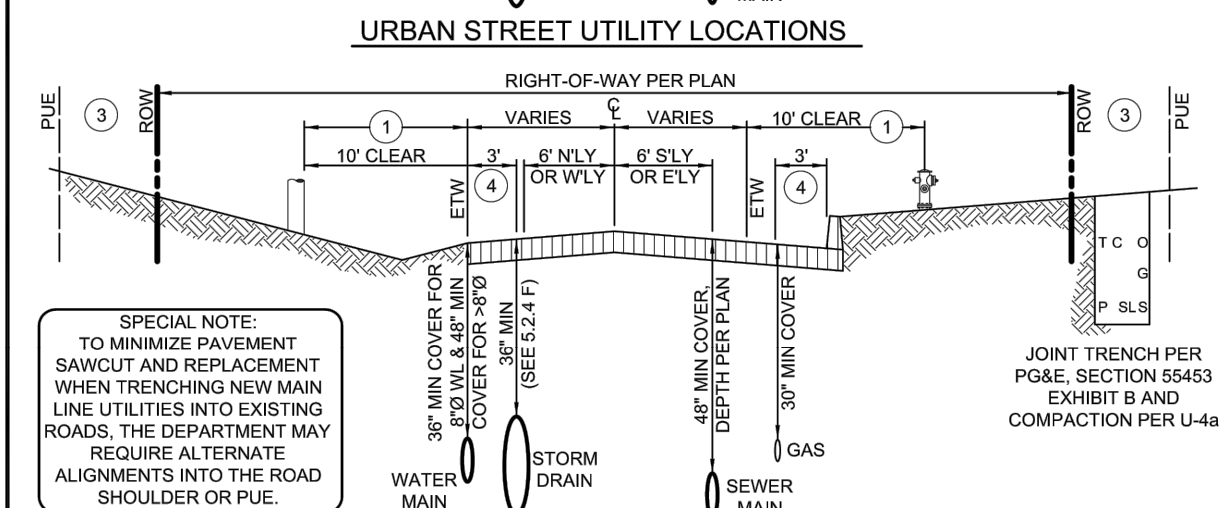
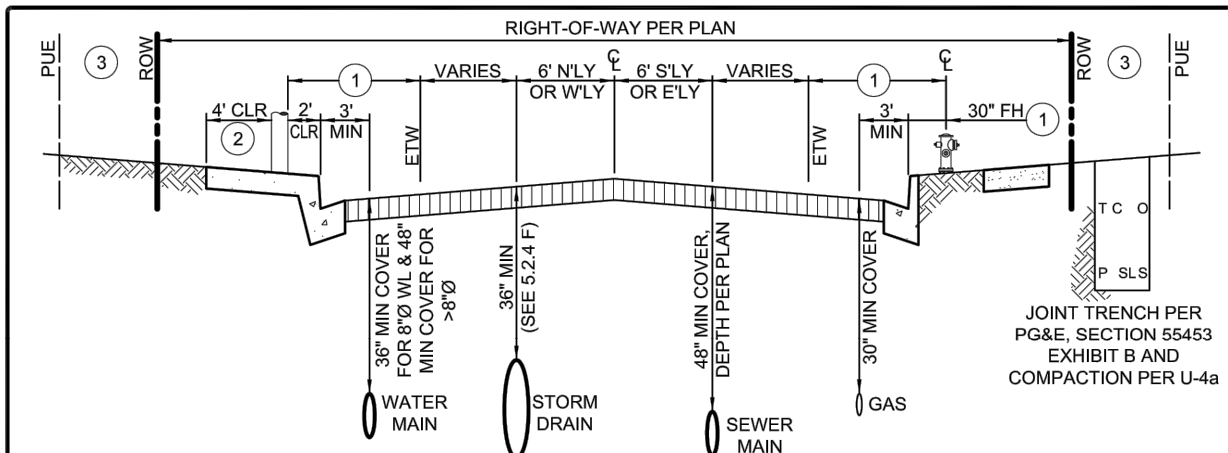
Table 1: Minimum Lane Width Repair Limits (see R-1)

ADT or less and within the URL	All Other Roadways
PC1 65-100 Full Lane Width Overlay	Full Lane Width Overlay
65-84 12' min. T-Section	Half Lane Width Overlay
<65 12' min. T-Section	12' min. T-Section



- NOTES:
- TRENCHING IN A ROADWAY IS ONLY ALLOWED WHEN BORING IS SHOWN TO THE DEPARTMENT AS BEING INFEASIBLE.
 - SAWCUT TO REMOVE DAMAGED OR FADED PAVEMENT SECTION ADJACENT TO THE EDGE OF TRENCH IS NECESSARY TO PROVIDE A CLEAN JOINT LINE. ALL SAWCUTS SHALL BE PERPENDICULAR OR TRANSVERSE TO THE TRAVEL LANE. CUT EDGES SHALL BE FINISHED WITH SQUARE CORNERS AND SHALL BE STRAIGHT AND NEAT IN APPEARANCE. ALL SAWCUTS SHALL BE TO MINIMUM SHOWN OR TO COMPLETE PAVEMENT SECTION.
 - THE STRUCTURAL ROAD REPAIR SECTION SHALL MATCH THE EXISTING STRUCTURAL SECTION THICKNESS OR AS REQUIRED BY THE DEPARTMENT. THE MINIMUM STRUCTURAL SECTION SHALL BE:
 - 2-INCH MINIMUM HOT MIX ASPHALT (HMA) PER THE DESIGN STANDARDS TO 95% RELATIVE COMPACTION, OVER
 - 6-INCH MINIMUM CLASS II AGGREGATE BASE TO 95% RELATIVE COMPACTION, OVER
 - TRENCH BACKFILL PER DRAWING U-4 (STRUCTURAL BACKFILL TO 95% MIN. REL. COMPACTION)
 - LONGITUDINAL: GRIND 1/2-INCHES (MINIMUM) FROM THE EXISTING ADJACENT HMA PAVEMENT SO THAT FINAL HMA SEAMS ARE LOCATED IN ACCORDANCE WITH TABLE 1 & DRAWING U-4 AS DIRECTED BY THE DEPARTMENT.
 - NEW HMA PAVEMENT SHALL BE PLACED IN LIFTS NOT EXCEEDING 3-INCHES (COMPACTED) AND SHALL BE ALLOWED TO COOL PER STATE SPECIFICATIONS PRIOR TO APPLICATION OF SUBSEQUENT LIFTS.
 - A TACK COAT SHALL BE APPLIED TO ALL HORIZONTAL AND VERTICAL CONFORM SURFACES PRIOR TO PAVING.
 - AFTER PAVING APPLY SSKH OIL (OR APPROVED EQUAL) TO ALL HMA SURFACE SEAMS PER MANUFACTURER'S RECOMMENDATIONS.
 - THE DEPARTMENT SHALL PROVIDE ADDITIONAL REQUIREMENTS WHEN TRENCHING IN EXISTING ROADS HAVING CONCRETE STRUCTURAL SECTIONS.
 - T-SECTION WIDTHS SHALL BE INCREASED AS DIRECTED BY THE DEPARTMENT FOR UTILITY PIPES EXCEEDING 36\"/>

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS
PAVEMENT RESTORATION
TRENCH REPAIR IN HMA PAVEMENT
 Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **R-3**



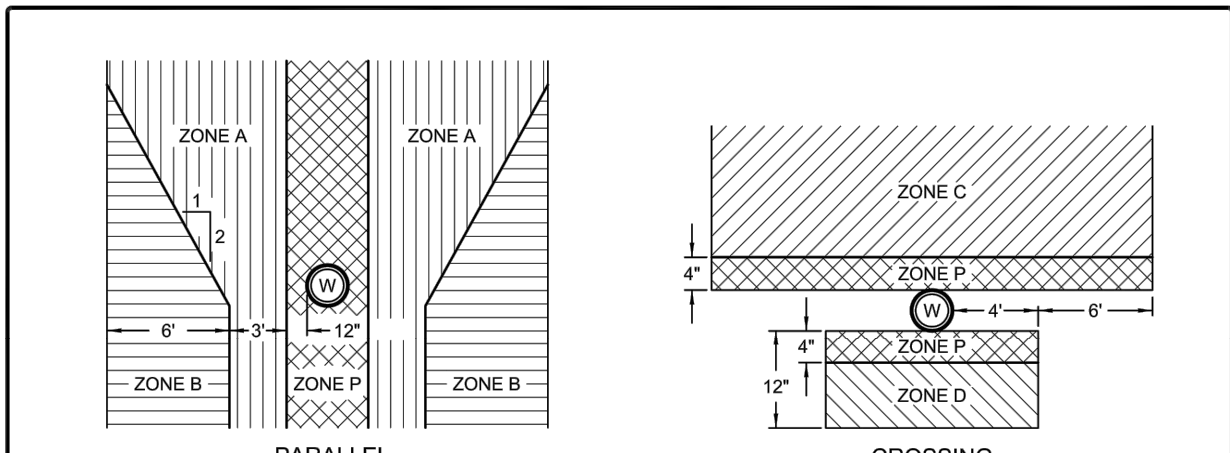
- NOTES:
- ON RURAL ROADS ALL ABOVE GRADE FIXED OBJECTS (UTILITY POLES, LIGHT STANDARDS, ETC.) SHALL BE LOCATED AT LEAST 10 FEET CLEAR FROM THE EDGE OF TRAVELLED WAY. ON URBAN STREETS THE FIXED OBJECTS MAY BE LOCATED 24 INCHES CLEAR FROM FACE OF CURB OR HMA DIKE ON LOW SPEED ROADS WITH DESIGN SPEEDS <40 mph.
 - PROVIDE 4-FOOT UNOBSTRUCTED CLEARANCE BETWEEN ALL ABOVE GRADE OBSTACLES AND THE BACK OF SIDEWALK (MAY REQUIRE ADDITIONAL SIDEWALK WIDENING).
 - LOCATE UTILITY VAULTS, METER BOXES, PEDESTALS, TRANSFORMERS, ETC. WITHIN PUE AND NOT WITHIN THE SIDEWALK.
 - FOR RURAL ROAD CONDITIONS, GAS AND WATER LINES SHALL BE LOCATED AT 3-FEET OFF FACE OF DIKE OR AT EDGE OF PAVEMENT.
 - THE DEPARTMENT MAY REQUIRE URBAN ROAD UTILITY STANDARD LOCATIONS FOR RURAL ROADS.
 - STREET CROSSINGS OF WIRE AND GAS UTILITIES SHALL REQUIRE A MINIMUM 30\"/>

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS
UTILITY LOCATION
MAIN LINES
 Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **U-1**

- NOTES:
- PARALLEL CONSTRUCTION: THE HORIZONTAL DISTANCE BETWEEN PRESSURE WATER MAINS AND SEWER LINES SHALL BE AT LEAST 10 FEET MEASURED FROM THE NEAREST EDGES OF THE FACILITIES.
 - PERPENDICULAR CONSTRUCTION (CROSSING): PRESSURE WATER MAINS SHALL BE AT LEAST 12-INCHES ABOVE SANITARY SEWER LINES WHERE THESE LINES MUST CROSS MEASURED FROM THE NEAREST EDGES OF THE FACILITIES.
 - COMMON TRENCH: WATER MAINS AND SEWER LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH.
 - WHEN ADEQUATE PHYSICAL SEPARATION CANNOT BE ATTAINED, AN INCREASE IN THE FACTOR OF SAFETY SHOULD BE PROVIDED BY INCREASING THE STRUCTURAL INTEGRITY OF BOTH THE PIPE MATERIALS AND JOINTS.
 - LOCAL CONDITIONS MAY CREATE A SITUATION WHERE THERE IS NO ALTERNATIVE BUT TO INSTALL WATER MAINS OR SEWER LINES AT A DISTANCE LESS THAN THAT REQUIRED BY THE BASIC SEPARATION STANDARDS. IN SUCH CASES, ALTERNATIVE CONSTRUCTION CRITERIA AS SPECIFIED IN THIS STANDARD SHALL BE FOLLOWED.
 - DUE TO SPECIAL HAZARDS, INSTALLATIONS OF WATER MAINS AND SEWER LINES 24-INCHES DIAMETER OR LARGER SHALL BE REVIEWED AND APPROVED BY THE HEALTH AGENCY PRIOR TO CONSTRUCTION.
 - THE CONSTRUCTION CRITERIA SHOULD APPLY TO THE HOUSE LATERALS THAT CROSS ABOVE A PRESSURE WATER MAIN BUT NOT TO THOSE HOUSE LATERALS THAT CROSS BELOW A PRESSURE WATER MAIN.

ALTERNATIVE CRITERIA FOR CONSTRUCTION THE CONSTRUCTION CRITERIA FOR SEWER LINES OR WATER MAINS WHERE THE BASIC SEPARATION STANDARDS CANNOT BE ATTAINED ARE SHOWN AS CASE 1 & CASE 2 ON SHEETS R AND 3 OF U-3.

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS
UTILITY SEPARATION CRITERIA
 Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **U-3**

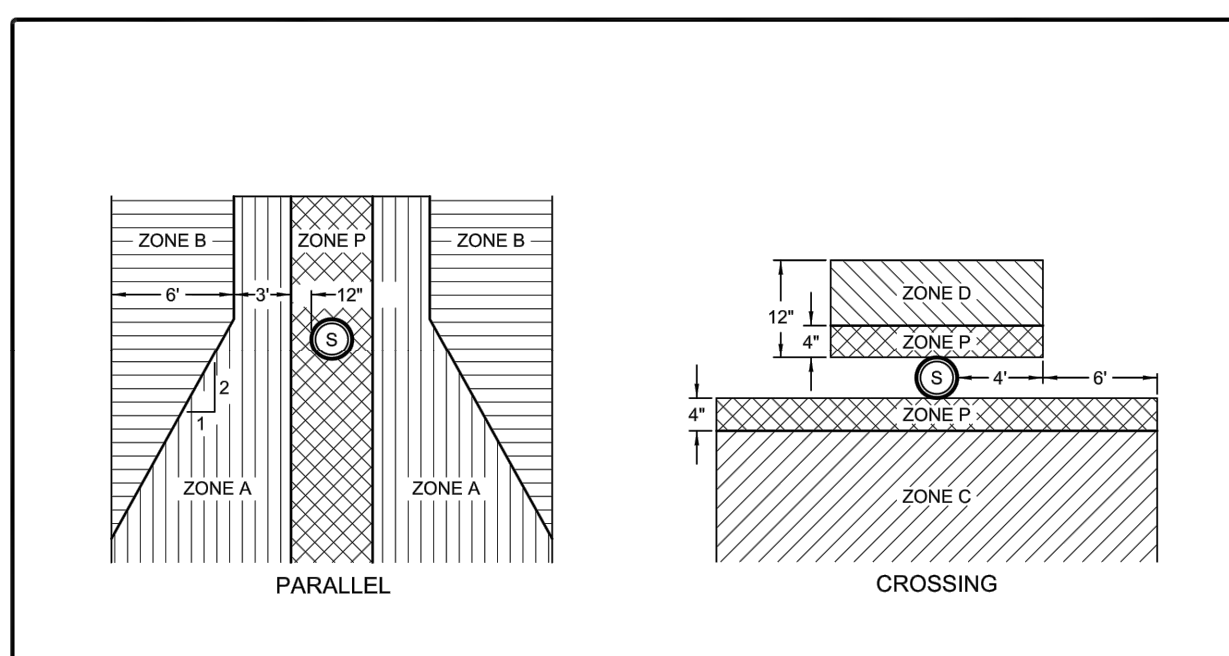


SPECIAL CONSTRUCTION REQUIRED FOR SEWER:

ZONE	CONSTRUCTION CRITERIA
A	SEWER LINES PARALLEL TO WATER MAINS SHALL NOT BE PERMITTED IN THIS ZONE WITHOUT APPROVAL FROM THE RESPONSIBLE HEALTH AGENCY AND WATER SUPPLIER.
B	A SEWER LINE PARALLEL TO A WATER LINE SHALL BE CONSTRUCTED OF: 1. CLASS 4000, TYPE II, ASBESTOS-CEMENT PIPE WITH RUBBER GASKET JOINTS. 2. PLASTIC SEWER PIPE WITH RUBBER RING JOINTS (PER ASTM D3034) OR EQUIVALENT. 3. CAST OR DUCTILE IRON PIPE WITH COMPRESSION JOINTS. 4. REINFORCED CONCRETE PRESSURE PIPE WITH COMPRESSION JOINTS (PER AWWA C302-74).
C	A SEWER LINE CROSSING A WATER MAIN SHALL BE CONSTRUCTED OF: 1. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING AND MECHANICAL JOINTS. 2. A CONTINUOUS SECTION OF CLASS 200 (OR 14 PER AWWA C900) PLASTIC PIPE, OR EQUIVALENT, CENTERED OVER THE PIPE BEING CROSSED. 3. A CONTINUOUS SECTION OF REINFORCED CONCRETE PRESSURE PIPE (PER AWWA C302-74) CENTERED OVER THE PIPE BEING CROSSED. 4. ANY SEWER PIPE WITHIN A CONTINUOUS SLEEVE.
D	A SEWER LINE CROSSING A WATER MAIN SHALL BE CONSTRUCTED OF: 1. A CONTINUOUS SECTION OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING. 2. A CONTINUOUS SECTION OF CLASS 200 (OR 14 PER AWWA C900) PLASTIC PIPE, OR EQUIVALENT, CENTERED OVER THE PIPE BEING CROSSED. 3. A CONTINUOUS SECTION OF REINFORCED CONCRETE PRESSURE PIPE (PER AWWA C302-74) CENTERED OVER THE PIPE BEING CROSSED. 4. ANY SEWER PIPE WITHIN A CONTINUOUS SLEEVE. 5. ANY SEWER PIPE SEPARATED BY A 10-FOOT BY 10-FOOT, 4-INCH THICK REINFORCED CONCRETE SLAB.
P	ZONE P IS A PROHIBITED ZONE, SECTION 64630(E)(2) CALIFORNIA ADMINISTRATIVE CODE, TITLE 22.

CASE 1: NEW SEWER MAIN
 ALTERNATIVE CONSTRUCTION CRITERIA
 APPLIES TO NEW SEWER MAINS & NEW OR EXISTING WATER MAINS

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS
UTILITY SEPARATION CRITERIA
CASE 1: NEW SEWER MAINS
 Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **U-3a**

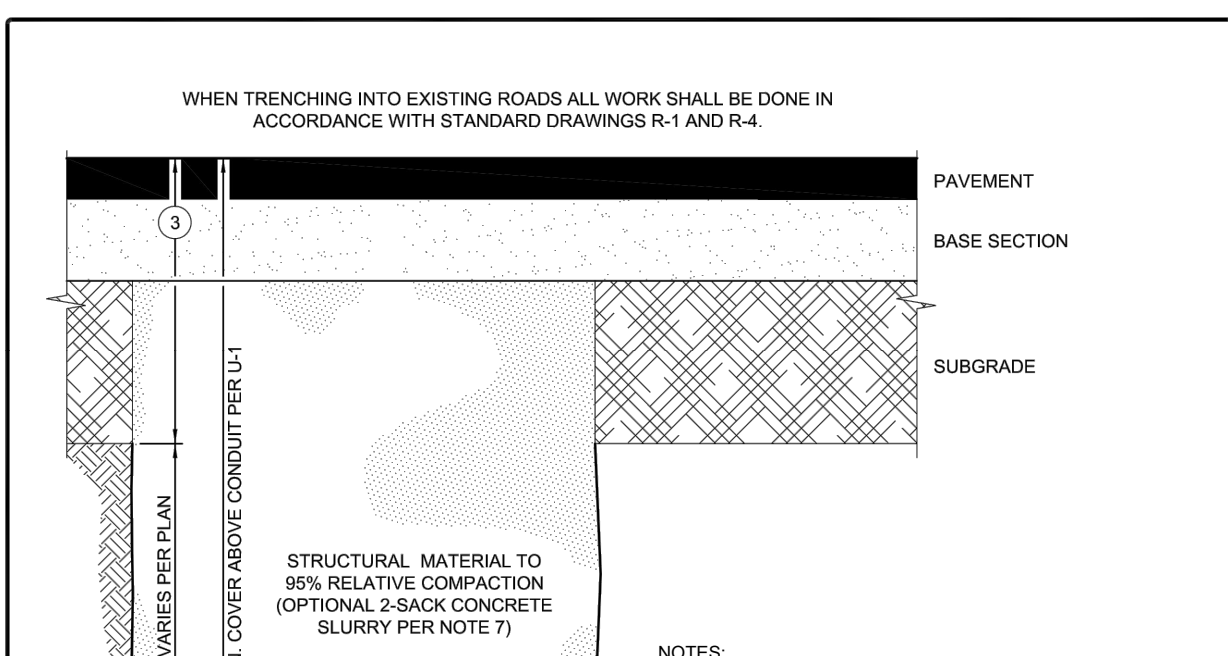


SPECIAL CONSTRUCTION REQUIRED FOR WATER:

ZONE	CONSTRUCTION CRITERIA
A	NO WATER MAINS PARALLEL TO SEWERS SHALL BE CONSTRUCTED WITHOUT APPROVAL FROM THE HEALTH AGENCY.
B	IF THE SEWER PARALLEL TO THE WATER MAIN DOES NOT MEET THE CASE 1, ZONE B REQUIREMENTS, THE WATER MAIN SHALL BE CONSTRUCTED OF: 1. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING. 2. CLASS 200 PRESSURE RATED PLASTIC WATER PIPE (OR 14 PER AWWA C900) OR EQUIVALENT.
C	IF THE SEWER CROSSING THE WATER MAIN DOES NOT MEET THE CASE 1, ZONE C REQUIREMENTS, THE WATER MAIN SHALL HAVE NO JOINTS WITHIN 4 FEET FROM EITHER SIDE OF THE SEWER AND SHALL BE CONSTRUCTED OF: 1. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING. 2. CLASS 200 PRESSURE RATED PLASTIC WATER PIPE (OR 14 PER AWWA C900) OR EQUIVALENT.
D	IF THE SEWER CROSSING THE WATER MAIN DOES NOT MEET THE CASE 1, ZONE D REQUIREMENTS, THE WATER MAIN SHALL HAVE NO JOINTS WITHIN 4 FEET FROM EITHER SIDE OF THE SEWER AND SHALL BE CONSTRUCTED OF: 1. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING. 2. CLASS 200 PRESSURE RATED PLASTIC WATER PIPE (OR 14 PER AWWA C900) OR EQUIVALENT.
P	ZONE P IS A PROHIBITED ZONE, SECTION 64630(E)(2) CALIFORNIA ADMINISTRATIVE CODE, TITLE 22.

CASE 2: NEW WATER MAIN
 ALTERNATIVE CONSTRUCTION CRITERIA
 APPLIES TO NEW WATER MAINS OR EXISTING SEWER MAINS

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS
UTILITY SEPARATION CRITERIA
CASE 2: NEW WATER MAINS
 Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **U-3b**



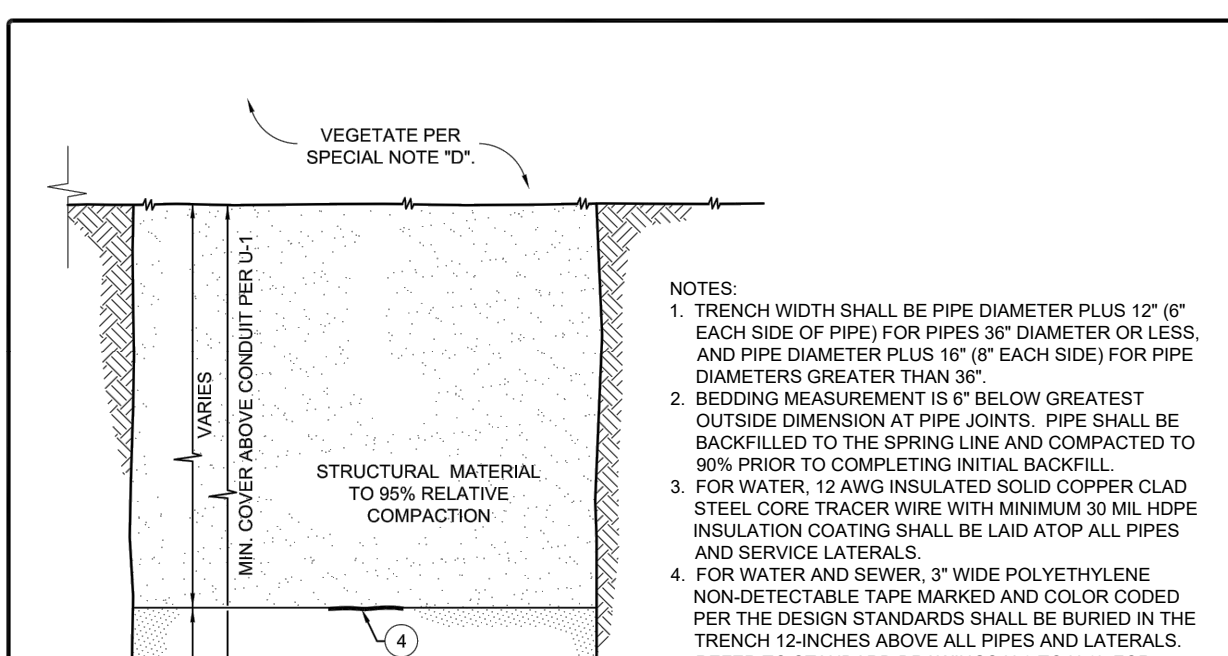
WHEN TRENCHING INTO EXISTING ROADS ALL WORK SHALL BE DONE IN ACCORDANCE WITH STANDARD DRAWINGS R-1 AND R-4.

NOTES:

- TRENCH WIDTH SHALL BE PIPE DIAMETER PLUS 12\"/>

BEDDING MATERIAL	STRUCTURAL MATERIAL
SIZE (INCHES)	PERCENT PASSING
No. 4	100%
No. 200	0% - 15%

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS
TRENCH SECTION
HMA PAVED SURFACE
 Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **U-4**



NOTES:

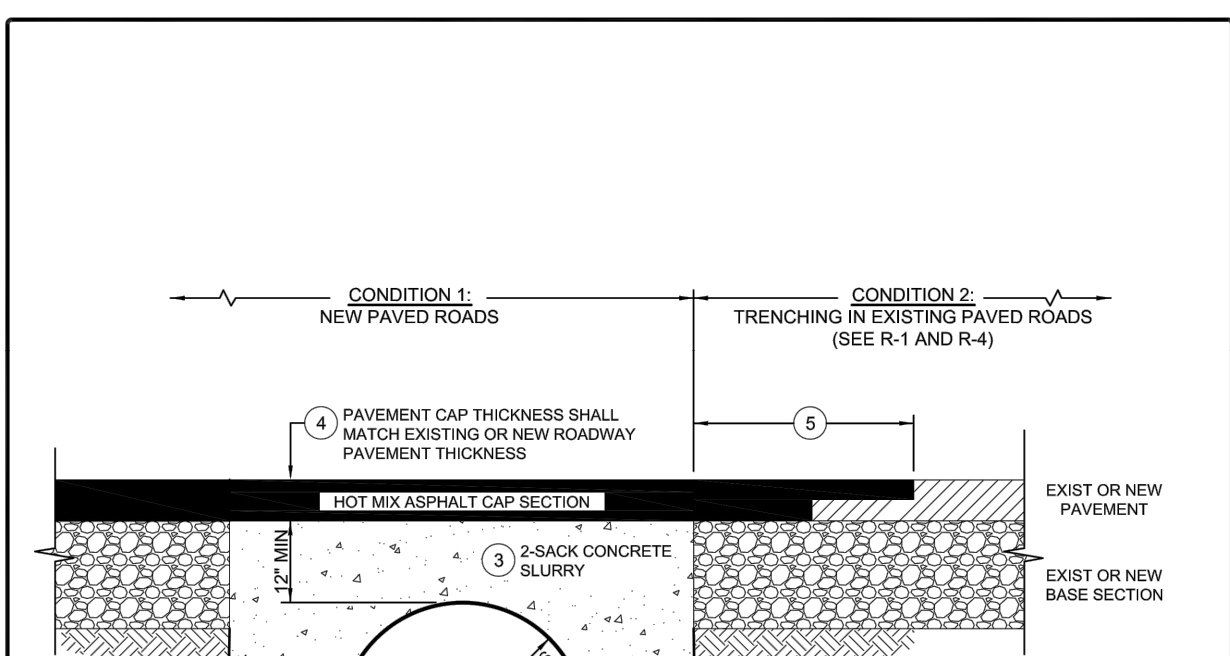
- TRENCH WIDTH SHALL BE PIPE DIAMETER PLUS 12\"/>

SPECIAL NOTES:

- SPECIAL CONSIDERATION SHALL BE TAKEN BY THE DESIGNER TO ENSURE SURFACE DRAINAGE WILL NOT ENTER THE TRENCH.
- WHEN TRENCHING ON STEEP SLOPES, CUT-OFF WALLS AND/OR PIPE ANCHORS MAY BE REQUIRED BY THE DEPARTMENT AND SHALL BE DETAILED ON THE PLANS.
- TRENCHING ALIGNMENT SHALL BE DESIGNED TO AVOID DAMAGE TO EXISTING TREES AND THEIR ROOT SYSTEMS. WHEN ADJACENT TO TREES THEN THE TRENCHING RECOMMENDATIONS OF THE PROJECT BOTANIST SHALL BE FOLLOWED.
- THE UPPER SURFACE SHALL BE SCARIFIED AND REVEGETATED. VEGETATIVE COVER SHALL BE ESTABLISHED PRIOR TO ACCEPTANCE OF WORK.

BEDDING MATERIAL	STRUCTURAL MATERIAL
SIZE (INCHES)	PERCENT PASSING
No. 4	100%
No. 200	0% - 15%

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS
TRENCH SECTION
OUTSIDE HMA PAVED SURFACE
 Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **U-4a**



- NOTES:
- USE OF THIS STANDARD DRAWING REQUIRES PRIOR DEPARTMENT APPROVAL AND SHALL ONLY BE ALLOWED IF REQUIRED COVER CANNOT BE ATTAINED.
 - PIPE SHALL BE PLACED ON UNDISTURBED NATIVE MATERIAL UNLESS EXISTING SOILS CONDITIONS REQUIRE ADDITIONAL MEASURES.
 - CONCRETE SLURRY TRENCH BACKFILL SHALL CONFORM TO STATE STANDARD SPECIFICATIONS, 188 LBS/CY CEMENTITIOUS MATERIAL (2 SACK), TO SURFACE OF BASE COURSE SECTION. DO NOT PLACE AGGREGATE BASE ABOVE SLURRY BACKFILL.
 - HOT MIX ASPHALT (HMA) PAVEMENT THICKNESS TO MATCH EXISTING PAVEMENT SECTION OR MATCH APPROVED PAVEMENT THICKNESS FOR NEW ROADS.
 - WHEN TRENCHING INTO EXISTING STRUCTURAL SECTION PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH STANDARD DRAWINGS R-1 AND R-4.
 - PIPE SHALL BE SECURED IN PLACE TO KEEP LINE AND GRADE WHILE CONCRETE SLURRY IS PLACED AND UNTIL THE SLURRY HAS SET.
 - THE DEPARTMENT MAY REQUIRE ADDITIONAL WORK WHEN TRENCHING IN EXISTING ROADS HAVING CONCRETE STRUCTURAL SECTIONS.

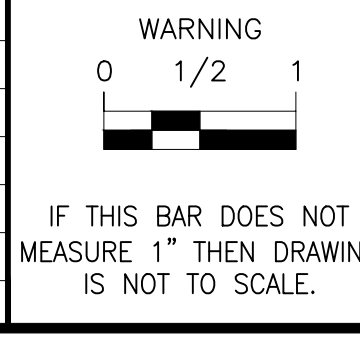
DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS
TRENCH SECTION
SHALLOW TRENCH
 Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **U-4b**

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ENGINEER *[Signature]* DATE 1/28/21

RECORD DRAWING

REV	DATE	BY	DESCRIPTION
1	1/28/21	WSC	RECORD DRAWING
2	9/16/20	WSC	CONFORMED PER ADDENDUM



DESIGNED: MJC
 DRAWN: PMD/CJD
 CHECKED: CGD
 SCALE: NO SCALE

PREPARED BY: *[Signature]*
 ORIGINAL STAMPED BY: MICHAEL J. GOYMERAC
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 DATE: 6/24/20

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 APPROVED: *[Signature]*
 DATE: _____
 RON MUMDS - GENERAL MANAGER

SOUTH BAY WELL SITE WATER TRANSMISSION
 MAIN TO MAIN PRESSURE ZONE
STANDARD DETAILS - 1

DRAWING **SD-1**
 SHEET 9 OF 10
 PROJECT # _____

Path: W:\3.0 Projects\Los Osos CSD\Southbay Well Piping Design\6.0 Working Files\CAD Plot Date: January 28, 2021 10:25 AM CADD User: Lauren Cetin

TABLE 1

Pipe Dia (in)	Pipe Class	Nom. I.D. (in)	Area (A) (sq in)	THRUST (T) AT FITTING, lbs				
				TEES	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4"	PVC Class 165 (DR 25)	4.39	15	3,254	4,602	2,491	1,270	638
4"	PVC Class 235 (DR 18)	4.23	14	4,005	5,664	3,065	1,563	785
4"	PVC Class 305 (DR 14)	4.07	13	4,619	6,532	3,535	1,802	905
6"	PVC Class 165 (DR 25)	6.31	31	6,723	9,508	5,146	2,623	1,318
6"	PVC Class 235 (DR 18)	6.09	29	8,302	11,740	6,354	3,239	1,627
6"	PVC Class 305 (DR 14)	5.86	27	9,574	13,540	7,328	3,736	1,877
8"	PVC Class 165 (DR 25)	8.28	54	11,577	16,372	8,861	4,517	2,269
8"	PVC Class 235 (DR 18)	7.98	50	14,254	20,158	10,910	5,562	2,794
8"	PVC Class 305 (DR 14)	7.68	46	16,445	23,257	12,587	6,417	3,224
10"	PVC Class 165 (DR 25)	10.16	81	17,431	24,651	13,341	6,801	3,417
10"	PVC Class 235 (DR 18)	9.79	75	21,454	30,340	16,420	8,371	4,206
10"	PVC Class 305 (DR 14)	9.42	70	24,741	34,989	18,936	9,654	4,850
12"	PVC Class 165 (DR 25)	12.08	115	24,641	34,848	18,860	9,615	4,831
12"	PVC Class 235 (DR 18)	11.65	107	30,380	42,964	23,252	11,854	5,956
12"	PVC Class 305 (DR 14)	11.2	99	34,975	49,452	26,768	13,545	6,856

BASED ON P = 165 + 50 = 215 psi
 BASED ON P = 235 + 50 = 285 psi
 BASED ON P = 305 + 50 = 355 psi
 AWWA PVC C-900 PIPE

TABLE 2

HORIZONTAL BEARING STRENGTHS FOR COMMON SOILS

SOIL TYPE	HORIZONTAL BEARING STRENGTH (Sb), lbs/sf
MUCK	0
SOFT CLAY	500
SAND	1,000
SAND & GRAVEL	1,500
SAND & GRAVEL CEMENTED WITH CLAY	2,000

NOTES:

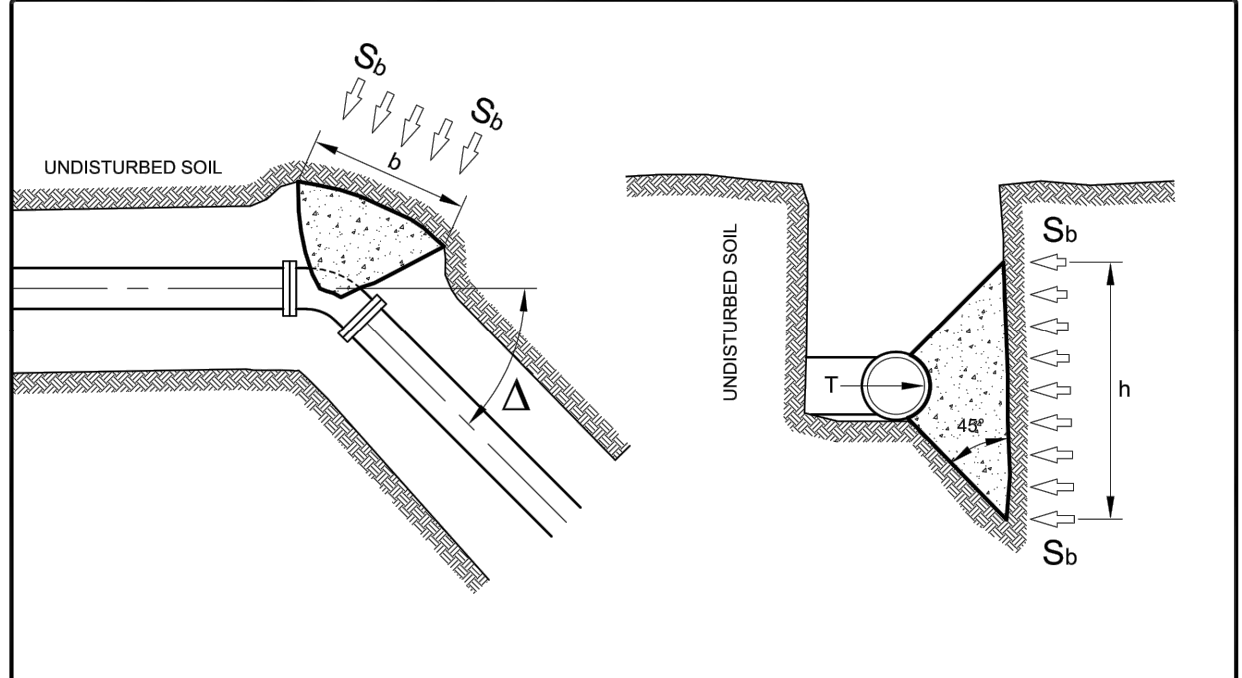
- ALTHOUGH THE ABOVE BEARING STRENGTH VALUES HAVE BEEN USED SUCCESSFULLY IN THE DESIGN OF THRUST BLOCKS AND ARE CONSIDERED TO BE CONSERVATIVE, THEIR ACCURACY IS TOTALLY DEPENDENT ON ACCURATE SOIL IDENTIFICATION AND EVALUATION. THE ULTIMATE RESPONSIBILITY FOR SELECTING THE PROPER BEARING STRENGTH OF A PARTICULAR SOIL TYPE SHALL BE THE RESPONSIBILITY OF THE PROJECT ENGINEER.
- ALL THRUST BLOCK AREAS SHALL BE PROVIDED ON THE APPROVED PLANS.
- CONCRETE THRUST BLOCKS SHALL CONFORM TO STATE STANDARD SPECIFICATIONS, 470 LBS/CY CEMENTITIOUS MATERIAL (5 SACK).
- THRUST RESTRAINT FOR VERTICAL BENDS SHALL USE RESTRAINED JOINT FITTINGS INSTEAD OF THRUST BLOCKS.

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS

WATERLINE

THRUST BLOCK REQUIREMENTS

Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **W-1**



LEGEND:
 T = THRUST AT FITTING (lbs) (TABLE 1)
 Sb = SOIL BEARING PRESSURE (psf) (TABLE 2)
 A = INTERNAL AREA (sq in) (TABLE 1)
 P = INTERNAL PRESSURE (psf)
 Δ = HORIZONTAL DEFLECTION ANGLE (degrees)
 Sf = FACTOR OF SAFETY (1.5 FOR THRUST BLOCK DESIGN TYPE)
 h = THRUST BLOCK HEIGHT (ft)
 b = THRUST BLOCK WIDTH (ft)
 Ab = MINIMUM THRUST BLOCK AREA (sq ft)

EQUATIONS:
 THRUST AT FITTINGS:
 (1) T = (P)(A)
 THRUST AT HORIZONTAL BEND:
 (2) T = 2(P)(A) sin(Δ/2)
 MINIMUM BEARING (THRUST) BLOCK AREA:
 (3) Ab = (h)(b) = [(Sf)(T)]/Sb

EXAMPLE: DETERMINE THE THRUST BLOCK AREA FOR A 90° BEND, 8" CLASS 165 PIPE IN SAND.

(STEP 1): PRESSURE = 165 + 50 (TEST PRESSURE) = 215 psi. CHOOSE T = 16,372 lbs FROM TABLE 1 SHEET 1/2 (USE EQUATION [1] IF PIPE HAS DIFFERENT INSIDE DIAMETER).

(STEP 2): DETERMINE Sb FROM TABLE 2, SHEET 1/2.

(STEP 3): USE INFORMATION TO CALCULATE Ab USING EQUATION [3].

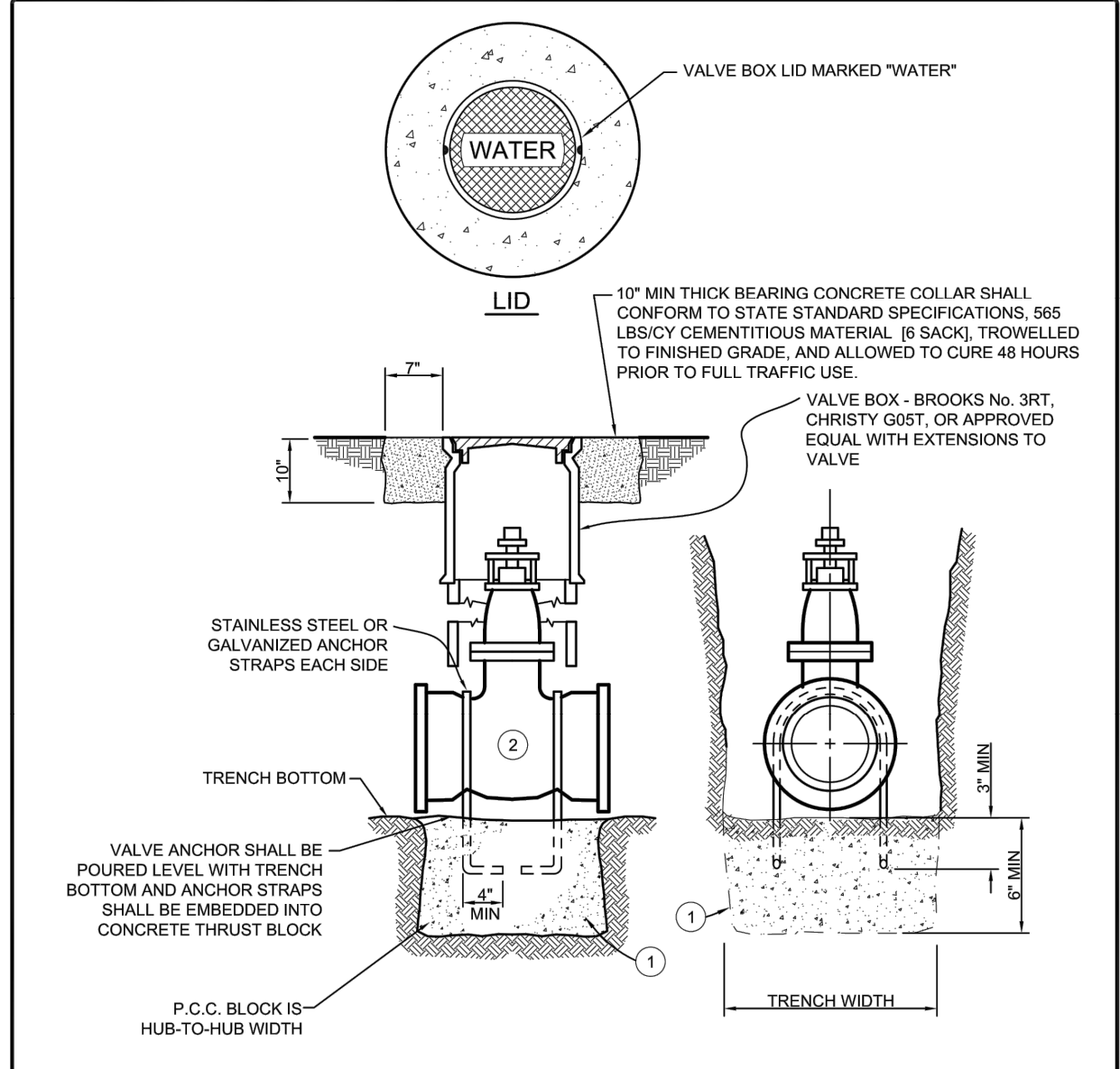
RESULT: Ab = [(Sf)(T)]/Sb = [(1.5)(16,372)]/1,000 = 24.6 sq ft

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS

WATERLINE

THRUST BLOCK REQUIREMENTS

Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **W-1a**



NOTES:

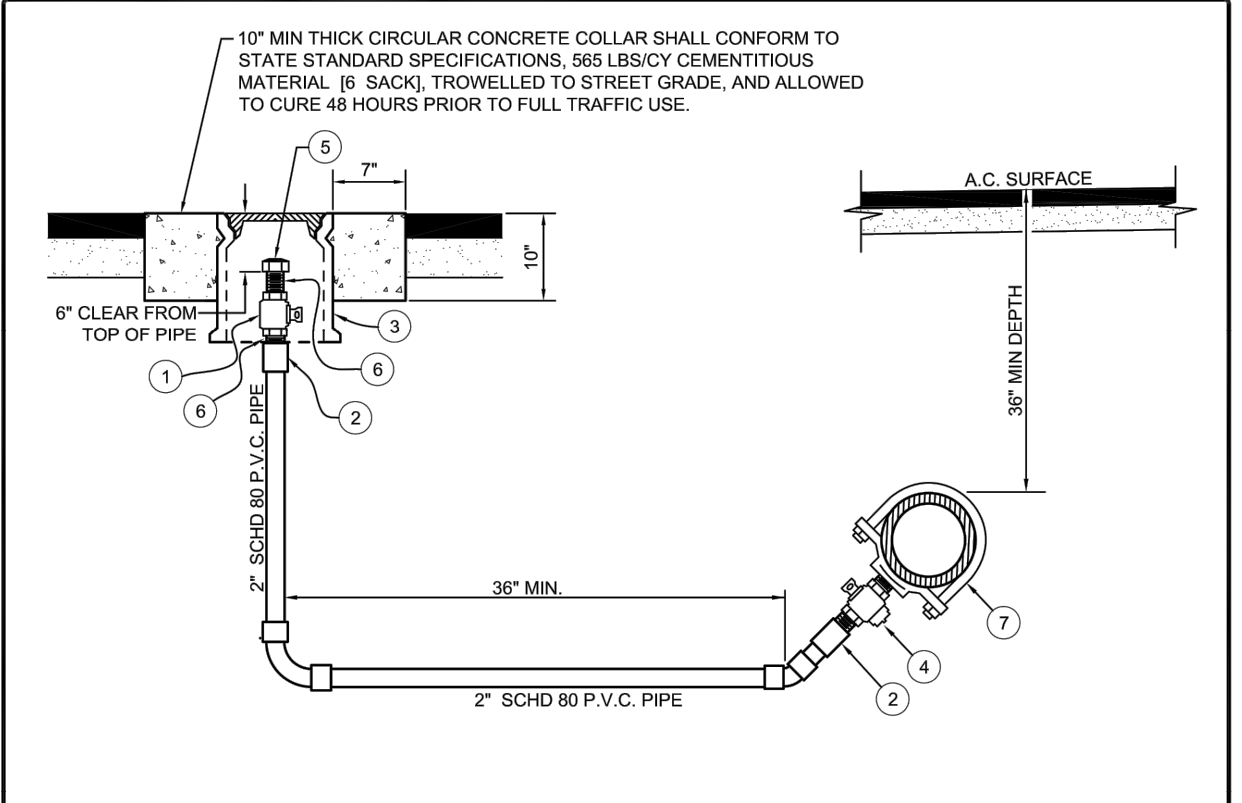
- CONCRETE THRUST BLOCKS SHALL CONFORM TO STATE STANDARD SPECIFICATIONS, 470 LBS/CY CEMENTITIOUS MATERIAL (5 SACK) AND POURED AGAINST UNDISTURBED NATIVE SOIL.
- VALVES SHALL OPEN TO THE LEFT, HAVE NON-RISING STEM WITH O-RING SEALS, RESILIENT WEDGE, RESILIENT SEAT WITH FULLY ENCAPSULATED GATE, EPOXY COATED INSIDE AND OUTSIDE, FULL SIZE WATERWAY, 200 PSI WORKING PRESSURE, AND MEET AWWA C-509. VALVES SHALL HAVE TYPE 316 STAINLESS STEEL BOLTS AND NUTS FOR THE STUFFING BOX AND BONNET, AND SHALL BE CLOW 2639/2640, MUELLER A-2361 RESILIENT WEDGE GATE VALVES THIN WALL, OR APPROVED EQUAL.
- ALL MATERIALS AND INSTALLATION SHALL CONFORM WITH THE APPLICABLE SECTIONS OF THE DESIGN STANDARDS.
- ALL FITTINGS SHALL BE WRAPPED IN POLYETHYLENE SHEET AND ALL FLANGES AND BOLTS SHALL BE SHIELDED FROM CONCRETE PER THE DESIGN STANDARDS.
- UNDER NO CIRCUMSTANCES SHALL UTILITY LIDS AND CONCRETE COLLARS BE LOCATED WITHIN CURBS, GUTTERS, SIDEWALKS, DRIVEWAY APRONS, CURB RAMPS, OR CROSS GUTTERS.

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS

WATERLINE

VALVE ANCHOR AND BOX

Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **W-3**



ON-RUN CONNECTION OR DEAD END

NOTES:

- 14-GAUGE INSULATED COPPER TRACER WIRE SHALL BE LAID IN THE TRENCH ABOVE THE PIPE AND BROUGHT ABOVE GRADE THROUGH ANY METER OR VALVE BOXES.
- COLOR CODED BLUE 3" WIDE POLYETHYLENE NON-DETECTABLE TAPE MARKED "CAUTION BURIED WATER LINE BELOW" SHALL BE BURIED IN THE TRENCH AND ABOVE THE PIPE AND TRACER WIRE.
- UNDER NO CIRCUMSTANCES SHALL UTILITY LIDS AND CONCRETE COLLARS BE LOCATED WITHIN CURBS, GUTTERS, SIDEWALKS, DRIVEWAY APRONS, CURB RAMPS, OR CROSS GUTTERS.

ITEM NO.	QTY REQ'D.	SIZE AND DESCRIPTION	MATERIAL SPECIFICATION
(1)	1	2" CURB STOP WITH LOCKWING	JAMES JONES J-182 WITH LOCKWING, MUELLER, O.A.E.
(2)	2	2" ADAPTER	I.P. THREAD x P.V.C. SLIP
(3)	1	VALVE BOX WITH CAST IRON LID	CHRISTY G05T, BROOKS 3-RT, O.A.E.
(4)	1	2" CORPORATION STOP	MUELLER H-10012N; JAMES JONES E-41, O.A.E.
(5)	1	2" IP GALV. CAP	
(6)	2	2" IP GALV. NIPPLE	
(7)	1	SERVICE SADDLE (STEEL PIPE)	MUELLER BR2B 0899 IP 075 OR 100, FORD 202B, O.A.E.
		SERVICE SADDLE (AC PIPE)	MUELLER BR2B 0899 IP 075 OR 100, FORD 202B, O.A.E.
		SERVICE SADDLE (3000 PVC PIPE)	MUELLER BR2S; FORD 202BS; O.A.E.

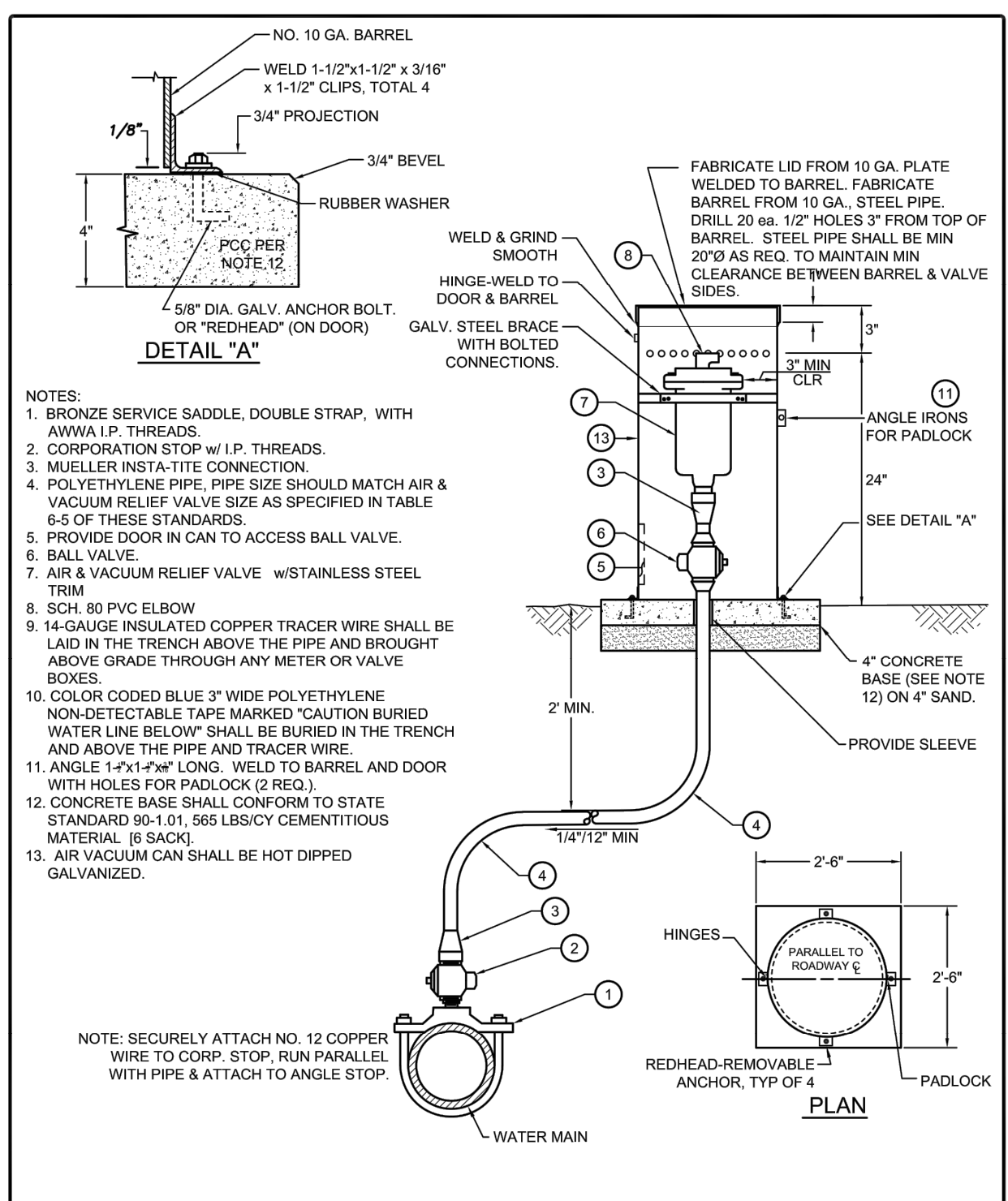
O.A.E. = "OR APPROVED EQUAL"

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS

WATERLINE

2" BLOW-OFF ASSEMBLY

Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **W-5a**



NOTES:

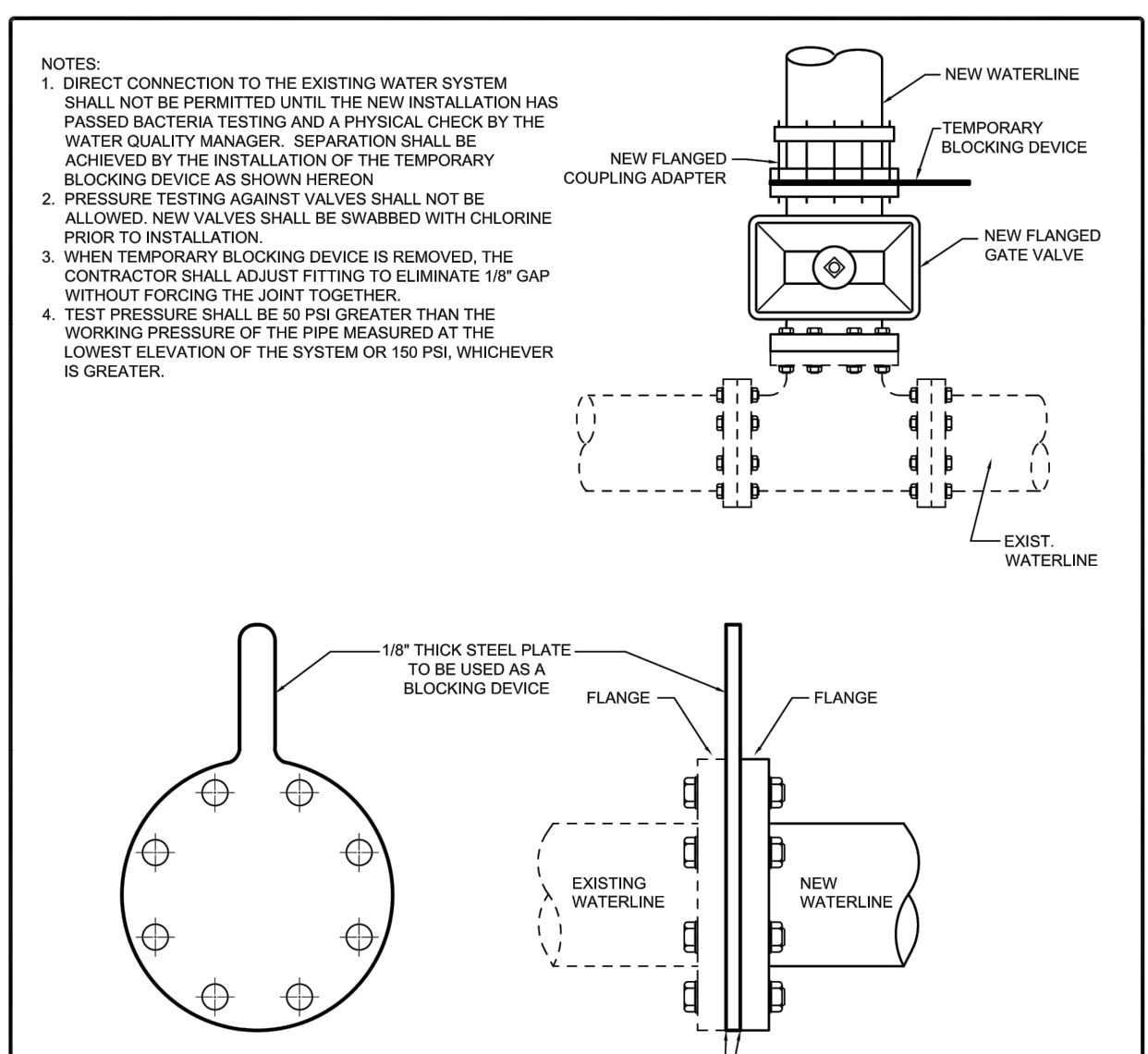
- Bronze service saddle, double strap, with AWWA I.P. threads.
- Corporation stop w/ I.P. threads.
- Mueller install-tite connection.
- Polyethylene pipe, pipe size should match air & vacuum relief valve size as specified in table 6-5 of these standards.
- Provide door in can to access ball valve.
- Ball valve.
- Air & vacuum relief valve w/ stainless steel trim.
- SCH. 80 PVC ELBOW.
- 14-GAUGE INSULATED COPPER TRACER WIRE SHALL BE LAID IN THE TRENCH ABOVE THE PIPE AND BROUGHT ABOVE GRADE THROUGH ANY METER OR VALVE BOXES.
- COLOR CODED BLUE 3" WIDE POLYETHYLENE NON-DETECTABLE TAPE MARKED "CAUTION BURIED WATER LINE BELOW" SHALL BE BURIED IN THE TRENCH AND ABOVE THE PIPE AND TRACER WIRE.
- ANGLE WELD TO BARREL AND DOOR WITH HOLES FOR PADLOCK (2 REQ.).
- CONCRETE BASE SHALL CONFORM TO STATE STANDARD 90-1.01, 470 LBS/CY CEMENTITIOUS MATERIAL (5 SACK).
- AIR VACUUM CAN SHALL BE HOT DIPPED GALVANIZED.

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS

WATERLINE

AIR & VACUUM RELIEF ASSEMBLY

Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **W-6**



NOTES:

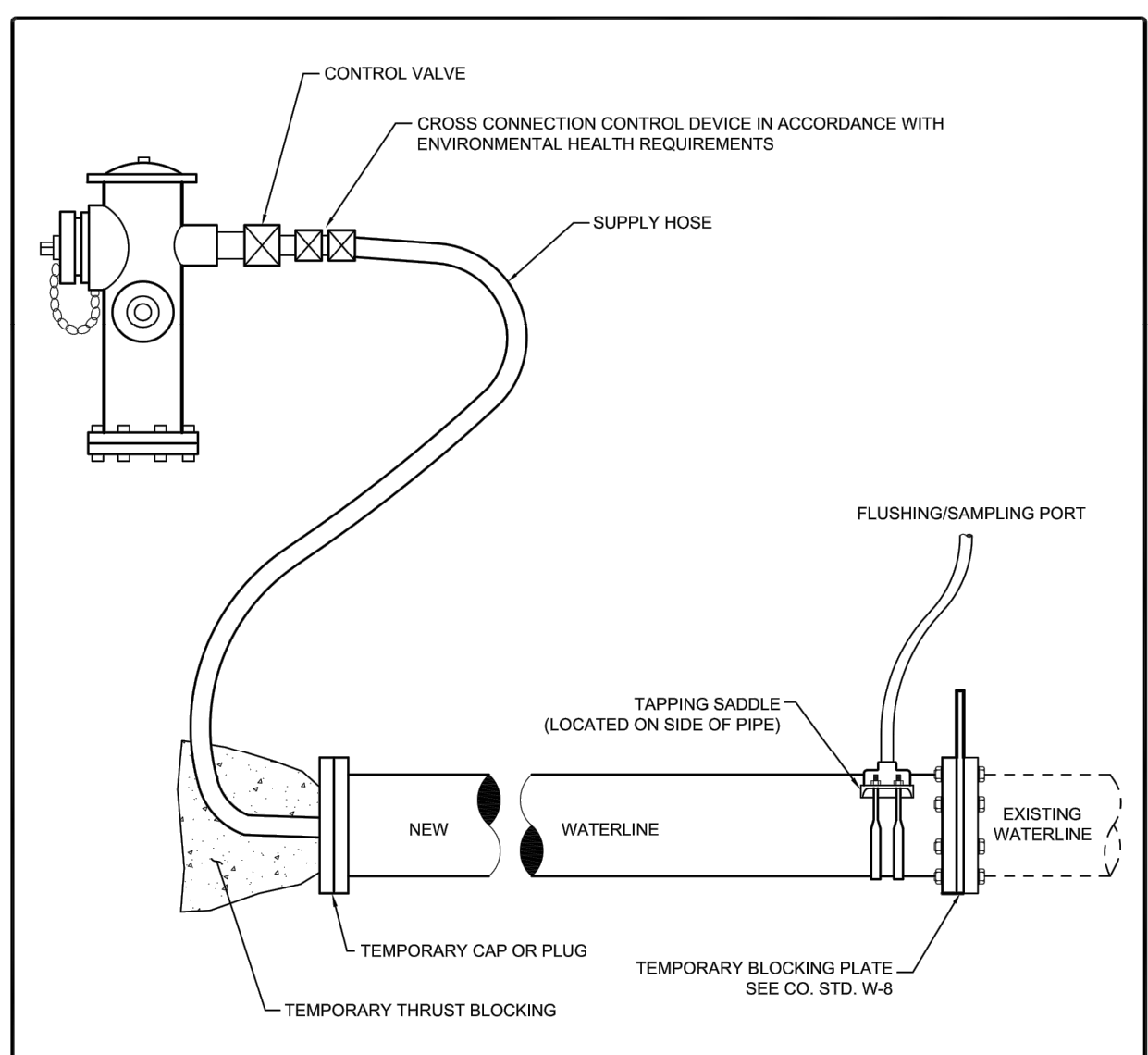
- DIRECT CONNECTION TO THE EXISTING WATER SYSTEM SHALL NOT BE PERMITTED UNTIL THE NEW INSTALLATION HAS PASSED BACTERIA TESTING AND A PHYSICAL CHECK BY THE WATER QUALITY MANAGER. SEPARATION SHALL BE ACHIEVED BY THE INSTALLATION OF THE TEMPORARY BLOCKING DEVICE AS SHOWN HEREON.
- PRESSURE TESTING AGAINST VALVES SHALL NOT BE ALLOWED. NEW VALVES SHALL BE SWABBED WITH CHLORINE PRIOR TO INSTALLATION.
- WHEN TEMPORARY BLOCKING DEVICE IS REMOVED, THE CONTRACTOR SHALL ADJUST FITTING TO ELIMINATE 1/8" GAP WITHOUT FORCING THE JOINT TOGETHER.
- TEST PRESSURE SHALL BE 50 PSI GREATER THAN THE WORKING PRESSURE OF THE PIPE MEASURED AT THE LOWEST ELEVATION OF THE SYSTEM OR 150 PSI, WHICHEVER IS GREATER.

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS

WATERLINE

CONNECTION DETAIL

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 Revised: Revision No:
 Drawing No: **W-8**



NOTES:

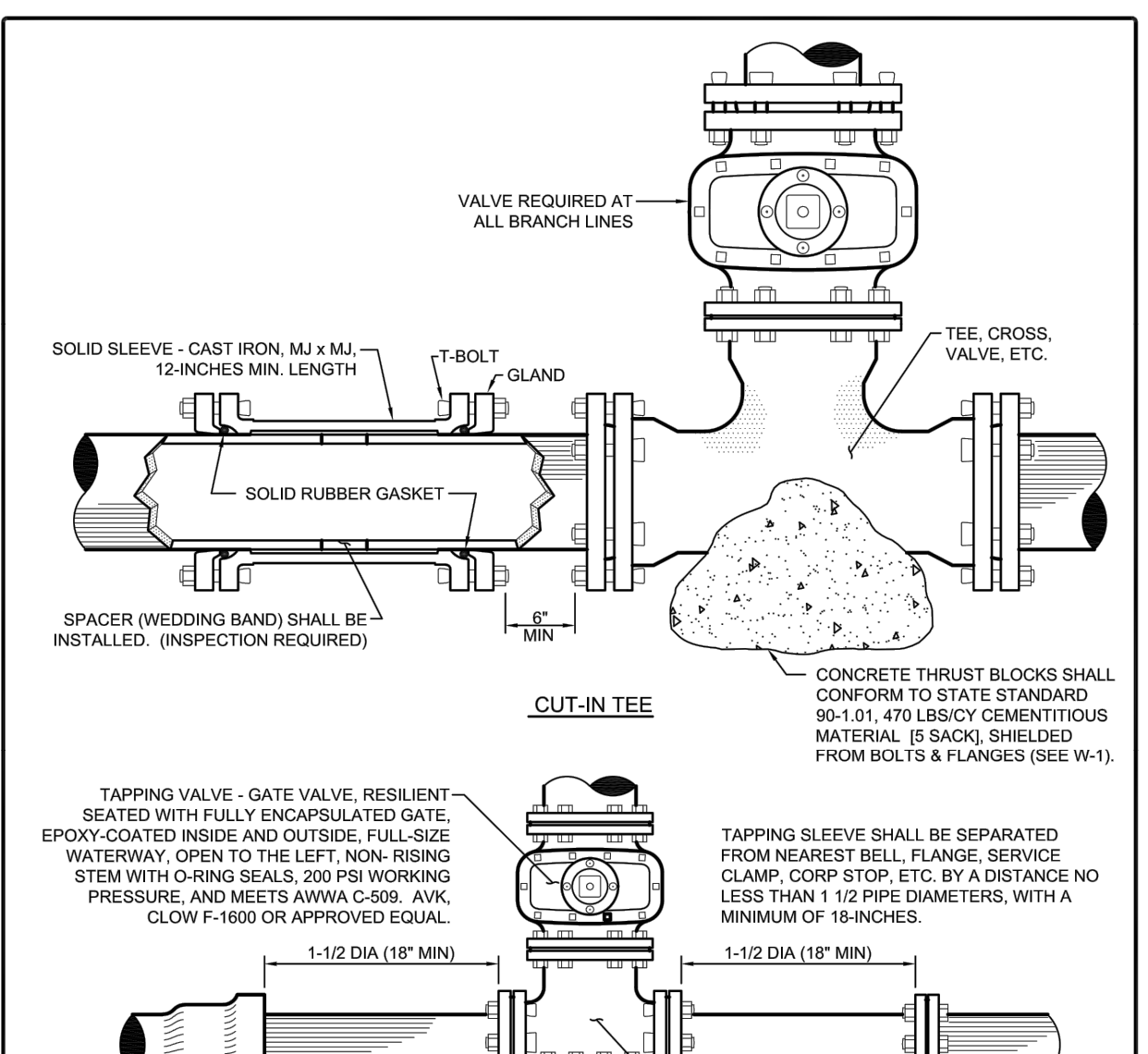
- DIRECT CONNECTION TO THE EXISTING WATER SYSTEM SHALL NOT BE PERMITTED UNTIL THE NEW INSTALLATION HAS PASSED BACTERIA TESTING. MAINTAIN AIR GAP PER AWWA STD. C651

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS

WATERLINE

FLUSHING DETAIL

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 Revised: Revision No:
 Drawing No: **W-9**



NOTES:

- CONCRETE THRUST BLOCKS SHALL CONFORM TO STATE STANDARD 90-1.01, 470 LBS/CY CEMENTITIOUS MATERIAL (5 SACK), SHIELDED FROM BOLTS & FLANGES (SEE W-1).
- TAPPING SLEEVE SHALL BE SEPARATED FROM NEAREST BELL FLANGE, SERVICE CLAMP, CORP STOP, ETC. BY A DISTANCE NO LESS THAN 1 1/2 PIPE DIAMETERS, WITH A MINIMUM OF 18-INCHES.
- SPLIT IN SWIVEL GLAND SHALL BE OFFSET FROM SPLIT IN TAPPING SLEEVE BY ONE BOLT POSITION.
- CONCRETE THRUST BLOCKS SHALL CONFORM TO STATE STANDARD 90-1.01, 470 LBS/CY CEMENTITIOUS MATERIAL (5 SACK), SHIELDED FROM BOLTS & FLANGES (SEE W-1).

DEPT. OF PUBLIC WORKS - STANDARD DRAWINGS

WATERLINE

CUT-IN TEE & HOT TAP ASSEMBLY

Issued: June 2019 Scale: NTS
 Revised: Revision No:
 Drawing No: **W-10**

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ENGINEER *[Signature]* DATE 1/28/21

RECORD DRAWING

REV	DATE	BY	DESCRIPTION
1	1/28/21	WSC	RECORD DRAWING
2	9/16/20	WSC	CONFORMED PER ADDENDUM

DESIGNED: MJG
 DRAWN: PMD/CJD
 CHECKED: CGD
 SCALE: NO SCALE

PREPARED BY: *[Signature]*
 MICHAEL J. GOYMERAC
 RCE No.: 84894

DATE: 6/24/20

ORIGINAL STAMPED BY: MICHAEL J. GOYMERAC
 RCE No.: 84894

WSC

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LOS OSOS COMMUNITY SERVICES DISTRICT
 2122 9TH STREET, SUITE 110
 LOS OSOS, CA 93402

APPROVED: *[Signature]*
 DATE: _____
 RON MUNDS - GENERAL MANAGER

SOUTH BAY WELL SITE WATER TRANSMISSION
 MAIN TO MAIN PRESSURE ZONE

STANDARD DETAILS - 2

DRAWING
SD-2
 SHEET 10 OF 10
 PROJECT #