

ONE-CALL (# 1-800-424-5555):
 BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORD MAPS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE BY FEATURES LOCATED IN THE FIELD. WESTSOUND ENGINEERING ASSUMES NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS, OR FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO DESIGN.

WSUD - BAKER WATER MAIN COVER SHEET

A PORTION OF SECTION 7, TOWNSHIP 23 NORTH, RANGE 2 EAST, W.M.
 KITSAP COUNTY, WASHINGTON



- ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE MOST RECENT ADOPTED VERSION OF THE WEST SOUND UTILITY DISTRICT'S DEVELOPERS EXTENSION MANUAL, UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO POTHOLE AND VERIFY EXISTING PIPE CONNECTION MATERIALS AND SIZE.
 - ALL JOINTS TO BE MEGALUG AND THRUST BLOCKED.
 - CONTRACTOR RESPONSIBLE FOR HOLDING POWER POLES AS NEEDED DURING CONSTRUCTION.
 - ALL WATER MAIN, HYDRANT RUNS, AND SERVICES SHALL HAVE 10 GAUGE TRACE WIRE INSTALLED WITH THE WATER LINE (UNDERGROUND SPLICES WHERE NEEDED) AND MAGNETIC WATER TAPE WITH THE WATER LINE IN THE TOP 18" - 24" OF THE TRENCH.
- ALL SHUT-DOWNS AND INSPECTIONS WILL BE COORDINATED WITH WEST SOUND UTILITY DISTRICT, 360-876-2545

1 WATER GENERAL NOTES
 NTS

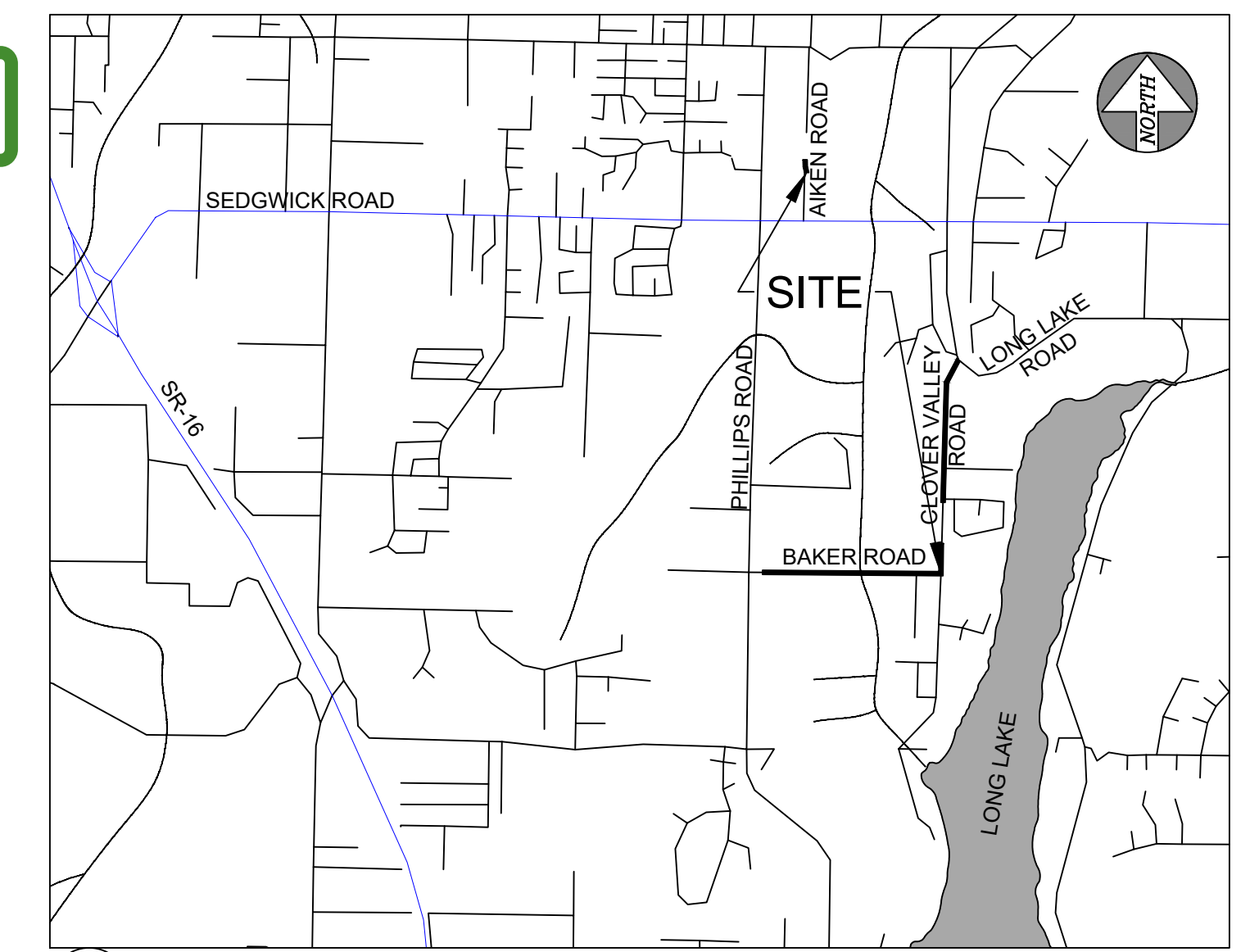
ABANDONMENT OF WATER LINES:

- ABANDONING AND GROUTING OF WATER LINES MUST NOT OCCUR UNTIL ALL EXISTING WATER MAINS AND SERVICES HAVE BEEN TRANSFERRED TO THE NEW WATER MAIN. THE CONTRACTOR IS RESPONSIBLE FOR THE SATISFACTORY COORDINATION OF THE PIPE ABANDONMENTS WITH OTHER CONSTRUCTION ACTIVITIES IN THE AREA. DELAYS IN WORK RESULTING FROM LACK OF COORDINATION WILL NOT BE CAUSE FOR ADDITIONAL COMPENSATION.
- ANY WORK INVOLVING OR IMPACTING ASBESTOS CONCRETE PIPE MUST BE IN ACCORDANCE WITH THE PROCEDURES OUTLINED IN THE APPROVED SPECIFICATIONS FOR THIS PROJECT AND WILL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES AND REGULATIONS REGARDING THE MANAGEMENT OF ASBESTOS CONTAINING MATERIALS.
- COORDINATE WITH WESTSOUND UTILITY DISTRICT (WSUD) FOR WRITTEN NOTIFICATIONS OF WATER SERVICE INTERRUPTION TO ALL AFFECTED ADDRESSES 1 WEEK IN ADVANCE.
- EXCAVATE TO EXPOSE WATER MAINS AND/OR SERVICE LINES AS NEEDED FOR WORK TO BE PERFORMED BY WSUD. WSUD CREWS TO PERFORM WATER MAINS OPERATION OF ISOLATING NECESSARY VALVES. COORDINATE WITH WSUD INSPECTOR IN ADVANCE TO SCHEDULE WORK.
- REMOVE ALL WATER LINE APPURTENANCES SUCH AS HYDRANTS, VALVES, AND VALVE CASING AND CASTINGS. THESE APPURTENANCES MUST BE RETURNED TO THE DESIGNATED WSUD REPRESENTATIVE.
- WHERE SHOWN IN THE PLANS OR WHERE DESIGNATED BY THE ENGINEER, EXISTING PIPES SHALL BE SECURELY SEALED AT THE PIPE ENDS FOR A DISTANCE OF THE GREATER OF 2 DIAMETERS OR 12 INCHES WITH COMMERCIAL CEMENT CONCRETE OR GROUT. ENSURE THAT ALL PIPELINES TO BE ABANDONED HAVE A MINIMUM OF A THREE FOOT SEPARATION FROM THE LIVE PORTION OF THE WATER MAIN (A SECTION REMOVED) LINE FOR PIPES 4" INCHES AND LARGER IN DIAMETER.
- BACKFILL AND RESTORE THE ROADWAY IN ACCORDANCE WITH WSUD STANDARDS WHEN WORK ON THE WATER MAIN, VALVE OR SERVICE IS COMPLETE. PRIOR APPROVAL BY WSUD IS REQUIRED FOR ANY AFTER-HOUR INSPECTIONS AND/OR SHUTDOWNS. CARE SHALL BE USED IN PLACING THE CONCRETE/GROUT IN THE PIPE TO SEE THAT THE OPENING OF THE PIPE IS COMPLETELY FILLED AND THOROUGHLY PLUGGED.
- MAINTAIN AND PROVIDE TO THE ENGINEER OF RECORD REDLINE IMPROVEMENT PLANS TO IDENTIFY ALL FACILITIES THAT HAVE BEEN ABANDONED OR REMOVED FOR RECORD DRAWINGS.

2 ABANDONMENT OF WATER LINES
 NTS



NEW INDIVIDUAL PRV'S TO BE INSTALLED ON PROPERTY SIDE OF ALL SERVICES IN THIS AREA



1 VICINITY MAP
 NTS

LEGEND:

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PARCEL LINES
- ⊙ NATURAL GAS MARKER POST
- ⊞ POWER TRANSFORMER
- ⊥ WATER BLOW OFF
- ⊙ WATER MARKER POST
- ⊞ WATER METER
- ⊞ WATER VALVE
- ⊙ FIRE HYDRANT
- ▨ GRAVEL AREA
- ▨ GRASS AREA

SURVEYOR'S NOTES:
 INTENDED USE OF MAP FOR CIVIL ENGINEERING DESIGN.
 CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.
 NATIONAL MAPPING STANDARDS, ONE-HALF THE CONTOUR INTERVAL.
 THIS IS NOT A BOUNDARY SURVEY.
 PROPERTY LINES BASED ON RECORD OF SURVEY AFN 202012140003.
 NO SUB-SURFACE UTILITIES LOCATED EXCEPT AS SHOWN. SUB-SURFACE UTILITY LOCATION PER FIELD LOCATED PAINT MARKS.
 SURVEY PERFORMED WITH A 3" TOTAL STATION AND/OR GNSS RECEIVER USING FIELD TRAVERSE, GNSS BASED RELATIVE STATIC AND/OR REAL TIME KINEMATIC SURVEY METHODS. SURVEY MEETS OR EXCEEDS ACCURACY REQUIREMENTS CONTAINED IN WAC 332.130.090.

VERTICAL DATUM
 BASED ON GPS OBSERVATION
 VERTICAL DATUM: NAVD83
 WASHINGTON STATE PLANE NORTH
 NAD83-2011 EPOCH 2010.00

SHEET INDEX
 SHEET 1 - COVER SHEET
 SHEET 2 - BAKER ROAD WATER PLAN
 SHEET 3 - CLOVER VALLEY ROAD WATER PLAN
 SHEET 4 - AIKEN ROAD WATER PLAN
 SHEET 5 - WATER DETAILS

MONUMENT REMOVAL PERMIT PROCESS
 NO SURVEY MONUMENT SHALL BE REMOVED OR DESTROYED (THE PHYSICAL DISTURBANCE OR COVERING OF A MONUMENT SUCH THAT THE SURVEY POINT IS NO LONGER VISIBLE OR READILY ACCESSIBLE) BEFORE A PERMIT IS OBTAINED FROM THE DEPARTMENT OF NATURAL RESOURCES (DNR). WAC 332-120-030(2) STATES "IT IS THE RESPONSIBILITY OF THOSE PERFORMING CONSTRUCTION WORK OR OTHER ACTIVITY (INCLUDING ROAD AND STREET RESURFACING PROJECTS) TO ADEQUATELY SEARCH THE RECORDS AND THE PHYSICAL AREA OF THE PROPOSED CONSTRUCTION WORK OR OTHER ACTIVITY FOR THE PURPOSE OF LOCATING AND REFERENCING ANY KNOWN OR EXISTING SURVEY MONUMENTS." CONSTRUCTION SHALL NOT COMMENCE UNTIL WAC OUTLINED IN CHAPTER 332-120 IS COMPLIED WITH.

DESIGNED BY	MJM	REV.		DESCRIPTION		DATE	BY	DATE SEALED	9/30/2021
DRAWN BY	PWB								
CHECKED BY	MJM								
SEC	7	TWN	23N	R	2E				
SCALE	1"=500'								



TITLE WSUD - BAKER WATER MAIN
 COVER SHEET

CLIENT WEST SOUND UTILITY DISTRICT
 2924 SE LUND AVENUE
 PORT ORCHARD, WA 98366
 (360) 876 - 2545

WestSound Engineering, Inc
 ENGINEERING, PLANNING AND SURVEYING

217 S.W. Wilkins Drive Port Orchard, Wa. 98366
 Phone (360) 876-3770 Fax (360) 876-0439
 E-mail: wse@wsengineering.com http://www.wsengineering.com

JOB No. 3046 SHT **1** OF **5** SHTS

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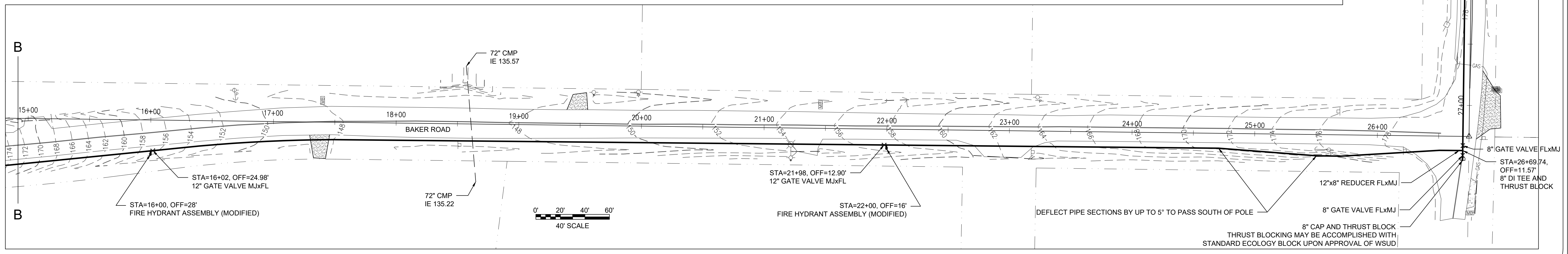
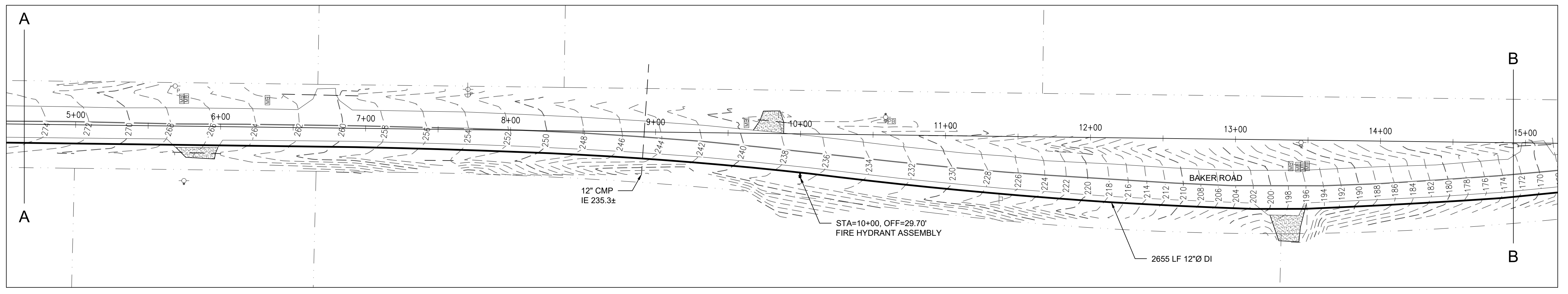
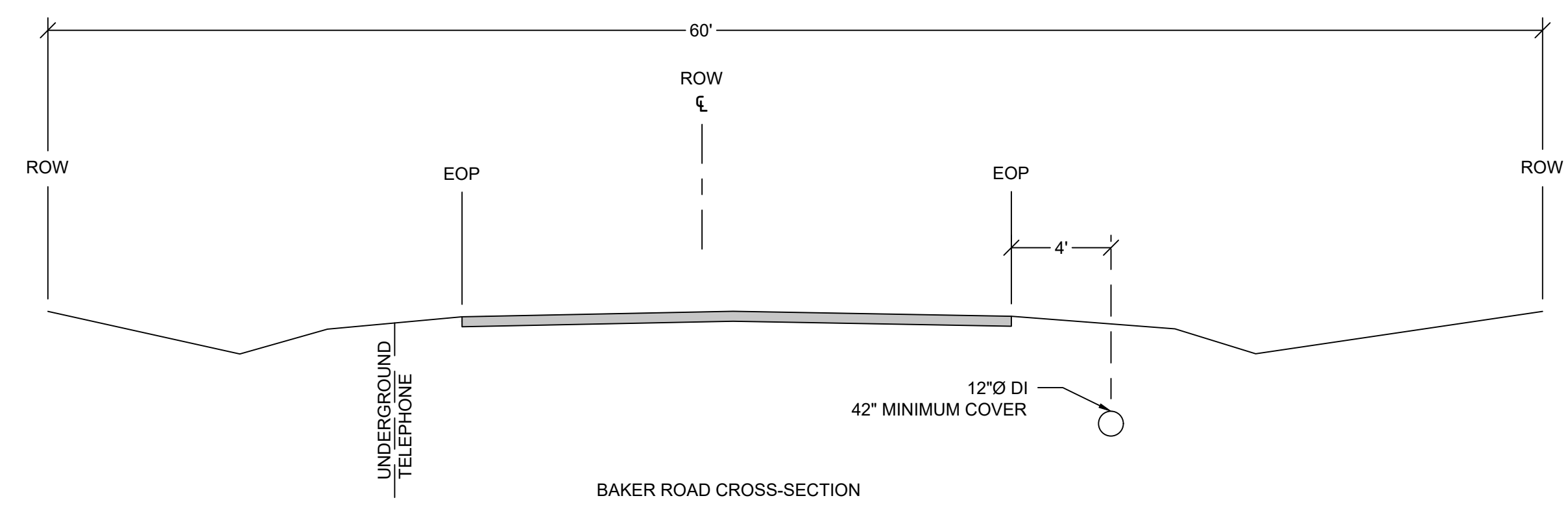
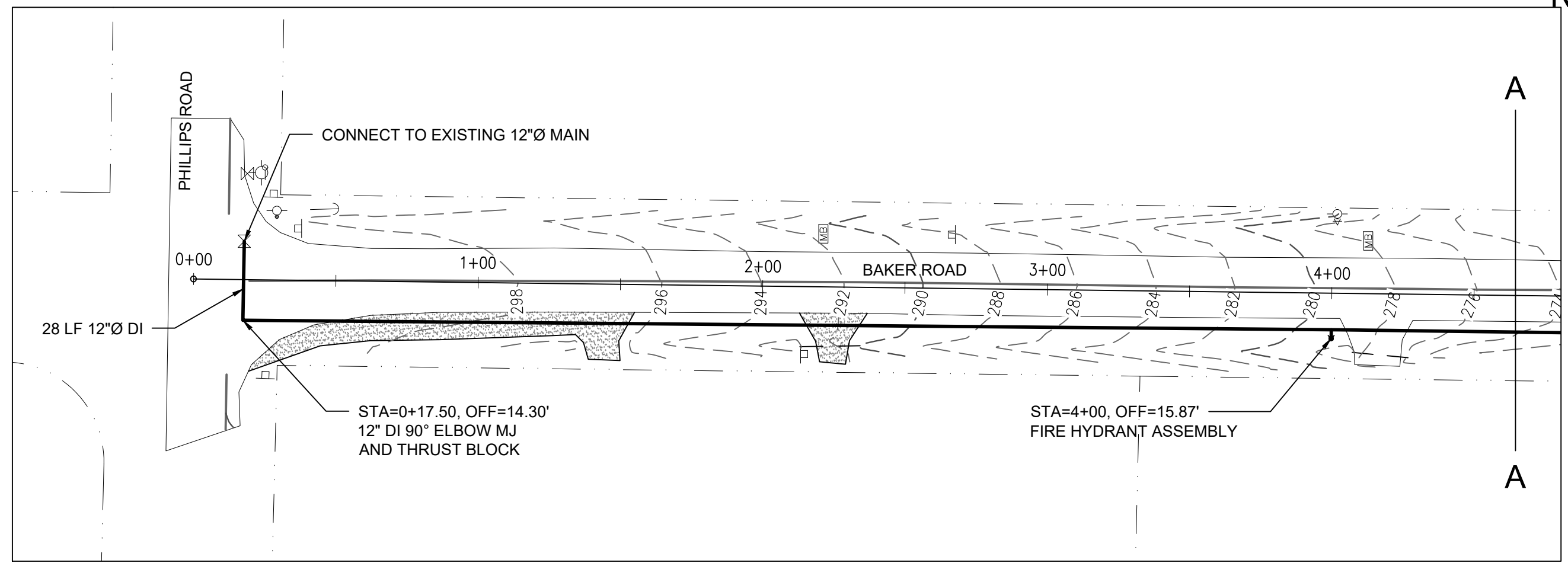
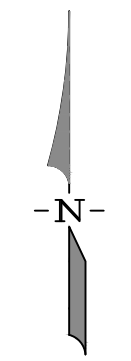
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WSUD - BAKER WATER MAIN

BAKER ROAD WATER PLAN

A PORTION OF SECTION 7, TOWNSHIP 23 NORTH, RANGE 2 EAST, W.M.
 KITSAP COUNTY, WASHINGTON

APPROVED
 By Brian Smalley at 1:38 pm, 9/30/21



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DESIGNED BY	MJM					
DRAWN BY	PWB					
CHECKED BY	MJM					
SEC	7	TWN	23N	R	2E	
SCALE	1"=40'	REV.		DESCRIPTION	DATE	BY
					DATE SEALED	9/30/2021



TITLE **WSUD - BAKER WATER MAIN**
 BAKER ROAD WATER PLAN

CLIENT **WEST SOUND UTILITY DISTRICT**
 2924 SE LUND AVENUE
 PORT ORCHARD, WA 98366
 (360) 876 - 2545

WSE WestSound Engineering, Inc
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JOB No. **3046** SHT **2** OF **5** SHTS

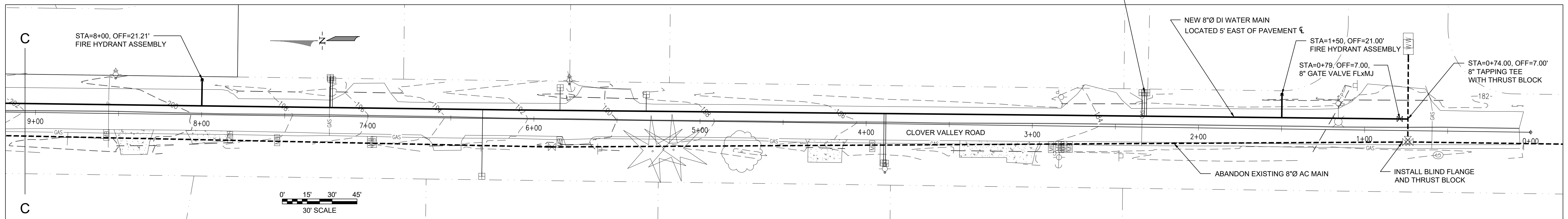
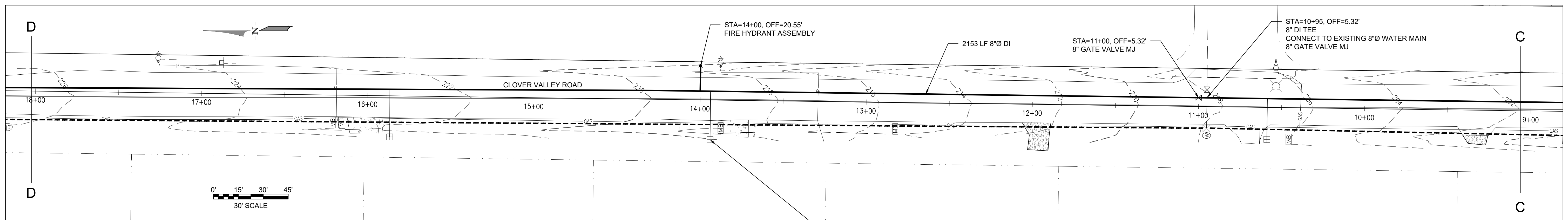
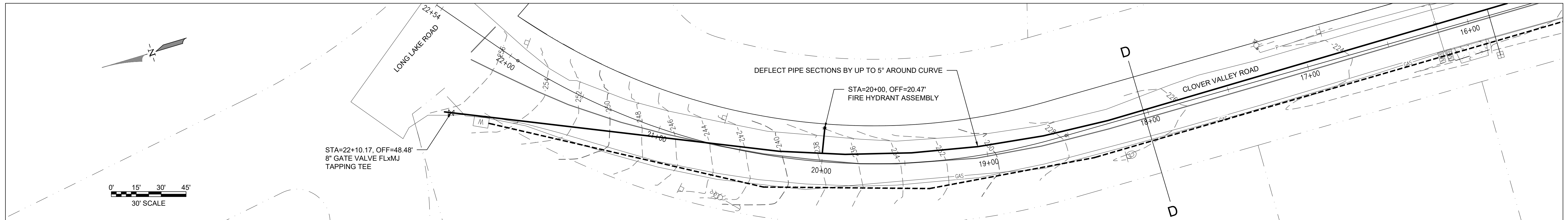
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WSUD - BAKER WATER MAIN

CLOVER VALLEY ROAD WATER PLAN

A PORTION OF SECTION 7, TOWNSHIP 23 NORTH, RANGE 2 EAST, W.M.
 KITSAP COUNTY, WASHINGTON



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DRAWN BY	PWB					
CHECKED BY	MJM					
SEC	7	TWN	23N	R	2E	
SCALE	1"=30'	REV.		DESCRIPTION	DATE	BY
					DATE SEALED	9/30/2021



TITLE: **WSUD - BAKER WATER MAIN**
 CLOVER VALLEY ROAD WATER PLAN

CLIENT: **WEST SOUND UTILITY DISTRICT**
 2924 SE LUND AVENUE
 PORT ORCHARD, WA 98366
 (360) 876 - 2545

WSE WestSound Engineering, Inc
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JOB No. **3046** SHT **3** OF **5** SHTS

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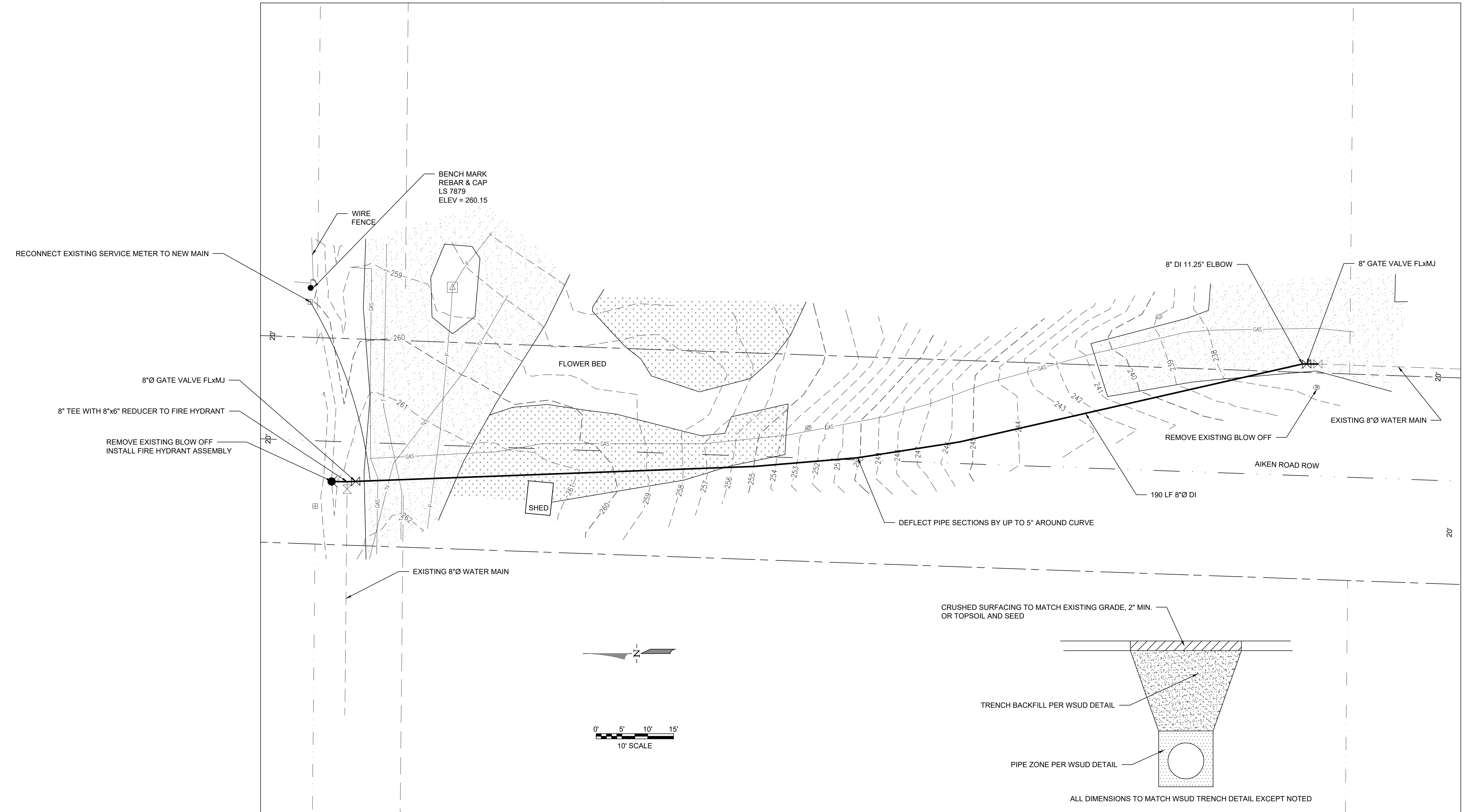
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WSUD - BAKER WATER MAIN

AIKEN ROAD WATER PLAN

A PORTION OF SECTION 7, TOWNSHIP 23N NORTH, RANGE 2E, W.M.
 KITSAP COUNTY, WASHINGTON



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DRAWN BY	PWB					
CHECKED BY	MJM					
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SCALE	1"=10'	REV.		DESCRIPTION	DATE	BY
					DATE SEALED	9/30/2021



TITLE
WSUD - BAKER WATER MAIN
 AIKEN ROAD WATER PLAN

CLIENT
WEST SOUND UTILITY DISTRICT
 2924 SE LUND AVE
 PORT ORCHARD, WA 98366
 (360) 876 - 2545

WSE WestSound Engineering, Inc
 ENGINEERING, PLANNING AND SURVEYING

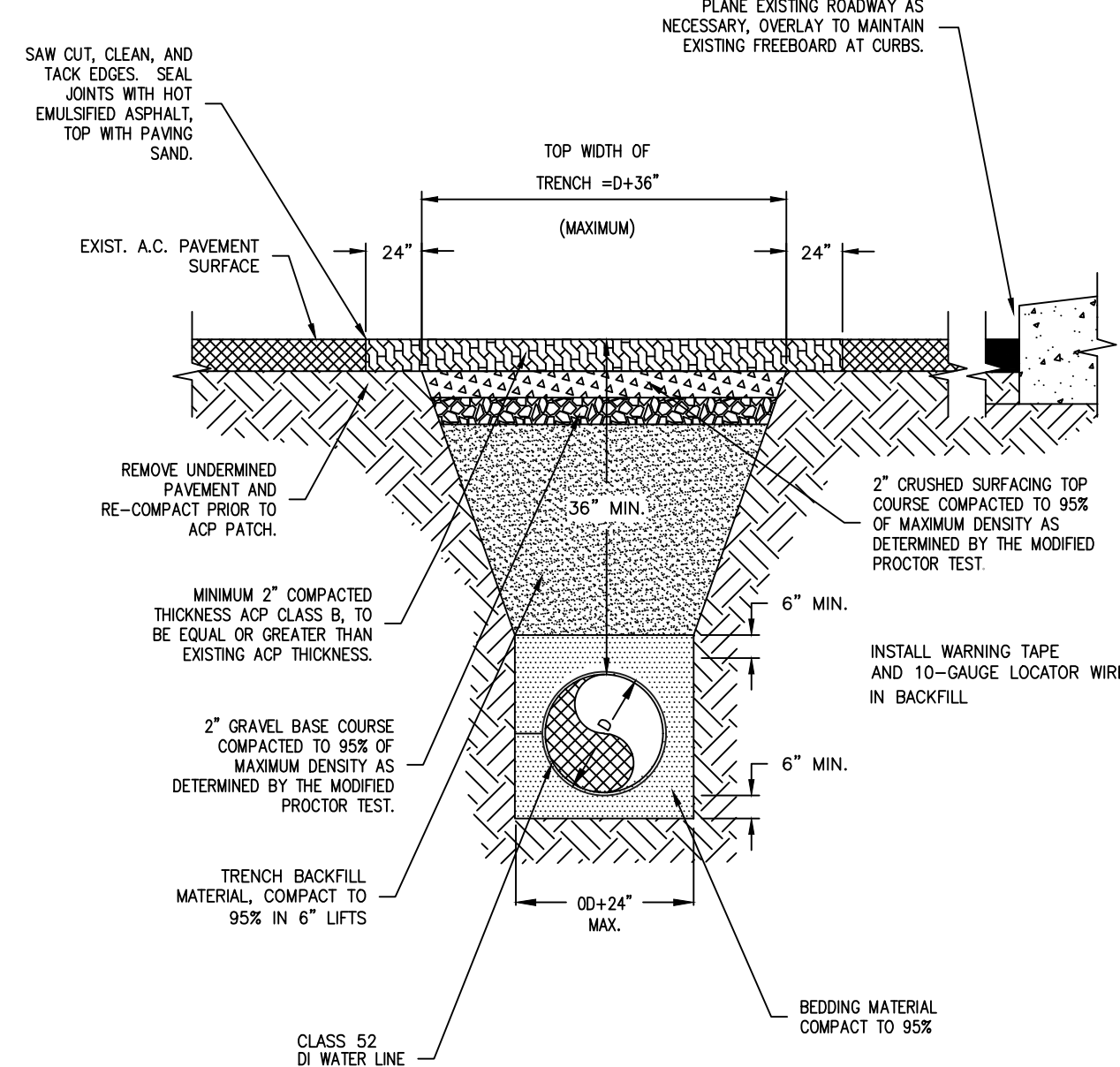
217 S.W. Wilkins Drive Port Orchard, Wa. 98366
 Phone (360) 876-3770 Fax (360) 876-0439
 E-mail: wse@wsengineering.com http://www.wsengineering.com

JOB No. **3046** SHT **4** OF **5** SHTS

WSUD - BAKER WATER MAIN

WATER DETAILS

APPROVED
By Brian Smalley at 1:39 pm, 9/30/21



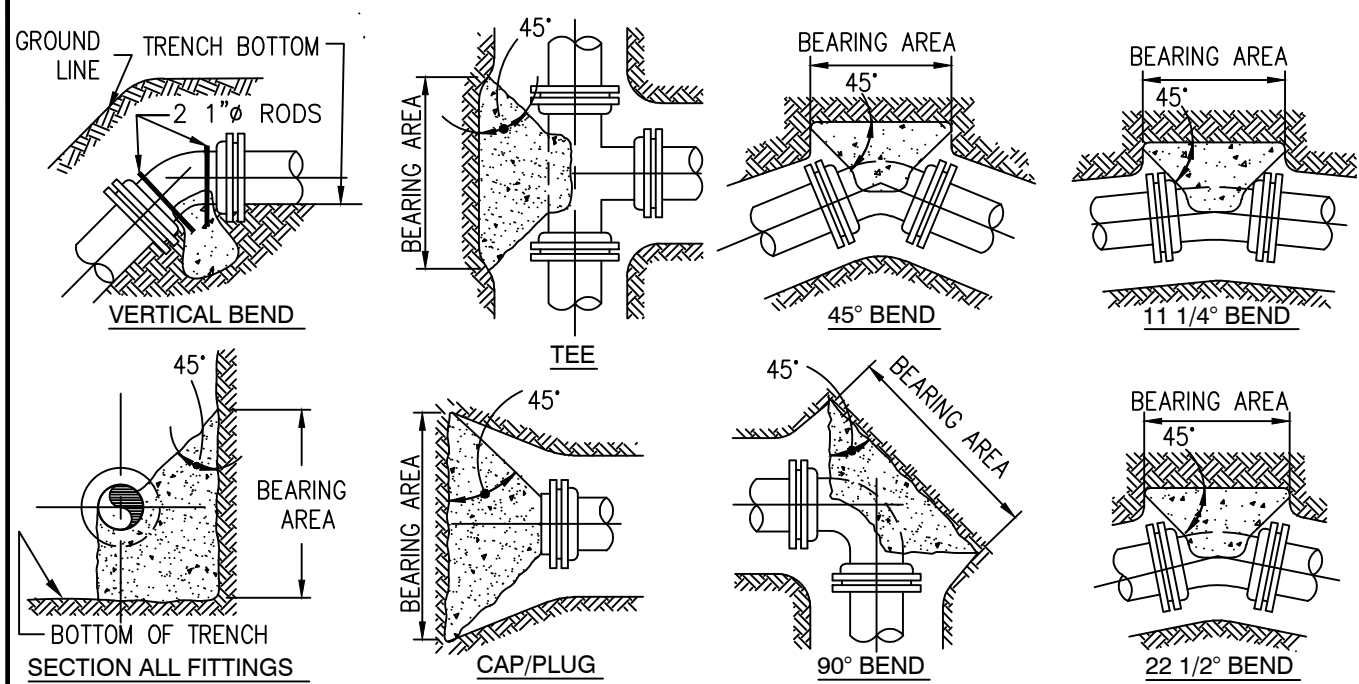
WATERLINE TRENCH DETAIL
NOT TO SCALE

West Sound West Sound Utility District
Standard Water Details

Water Main Trench

REVISED: FEBRUARY 2008

1 WATER MAIN TRENCH
NTS



2 FIRE HYDRANT LOCATION
IN CUT AND FILL

West Sound West Sound Utility District
Standard Water Details

Fire Hydrant Assembly

REVISED: December 2010

3 FIRE HYDRANT IN CUT AND FILL
NTS

PIPE SIZE	PIPE SIZE	THRUST BLOCK REQUIREMENTS															
		TEE/CAP OR PLUG				90 Degree BEND				45 Degree BEND				22.5 Degree BEND			
nominal	outside dia.	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi
4	4.80	1.8	2.0	2.3	2.6	2.9	3.2	1.4	1.6	1.7	0.7	0.8	0.9	0.4	0.4	0.4	0.4
6	6.90	3.7	4.2	4.7	5.3	5.9	6.6	2.9	3.2	3.6	1.5	1.6	1.8	0.7	0.8	0.9	0.9
8	9.05	6.4	7.2	8.0	9.1	10.2	11.4	4.9	5.5	6.2	2.5	2.8	3.1	1.3	1.4	1.6	1.6
12	13.20	13.7	15.4	17.1	19.4	21.8	24.2	10.5	11.8	13.1	5.3	6.0	6.7	2.7	3.0	3.4	3.4
16	17.40	23.8	26.8	29.7	33.6	37.8	42.0	18.2	20.5	22.7	9.3	10.4	11.6	4.7	5.2	5.8	5.8
18	19.50	29.9	33.8	37.3	42.2	47.5	52.8	22.9	25.7	28.6	11.7	13.1	14.6	5.9	6.6	7.3	7.3
24	25.80	52.3	58.8	65.3	73.9	83.2	92.4	40.0	45.0	50.0	20.4	22.9	25.5	10.2	11.5	12.8	12.8

NOTES:

- ALL CONCRETE BLOCKING SHALL BE POURED AGAINST DRY, UNDISTURBED SUBGRADE. TABLE IS BASED ON 2000 POUNDS PER SQUARE FOOT ALLOWABLE SOIL BEARING. WEAKER SOIL WILL REQUIRE INCREASED BEARING AREA. SEE SOIL BEARING LOAD CHART.
- KEEP CONCRETE CLEAR OF JOINTS AND ACCESSORIES. USE FORMING AS NECESSARY.
- HORIZONTAL ANCHOR BLOCKING CONFIGURATIONS FOR FITTINGS NOT SHOWN SHALL HAVE PRIOR APPROVAL.
- THE SQUARE FOOT AREAS REQUIRED FOR BEARING ARE CALCULATED BY THE FOLLOWING FORMULAS:
FORMULA AT TEE & CAP OR PLUG:
T = PA
T = BEARING AREA REQUIRED IN SQUARE FEET
FORMULA AT ALL PIPE BENDS:
T = 2PA (SN 1/2Δ) WHERE Δ = THE DEGREE BEND OF THE FITTING.
T = BEARING AREA REQUIRED IN SQUARE FEET
WHERE:
T = THRUST IN POUNDS
P = TEST PRESSURE IN PSI
A = CROSS-SECTIONAL AREA OF PIPE IN SQUARE INCHES
K = RATED 2000 PSF SOIL BEARING PRESSURE
- WRAP FITTINGS WITH VISQUEEN PRIOR TO BLOCK POUR.

SAFE BEARING LOADS IN LBS./SQ. FT.
THE SAFE SOIL BEARING LOADS SHOWN BELOW ARE FOR HORIZONTAL THRUSTS WHEN THE DEPTH OF COVER OVER PIPE EXCEEDS 3 FEET.

SOIL	SAFE BEARING LOAD LBS./SQ. FT.
MUCK, PEAT, ETC	0
SOFT CLAY, SILT	1,000
SAND, SANDY SILT	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL CEMENTED W/CLAY	4,000
HARD SHALE	10,000

IN MUCK OR PEAT, ALL THRUST SHALL BE RESTRAINED BY PILES OR THE RODS TO SOLID FOUNDATIONS OR BY REMOVAL OF MUCK OR PEAT AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THRUSTS.

West Sound West Sound Utility District
Standard Water Details

Thrust Blocking

REVISED: FEBRUARY 2008

2 THRUST BLOCKING DETAIL
NTS

DESIGNED BY MJM

DRAWN BY PWB

CHECKED BY MJM

SEC 7 TWN 23N R 2E

SCALE

REV. DESCRIPTION

DATE

BY

DATE SEALED 9/30/2021

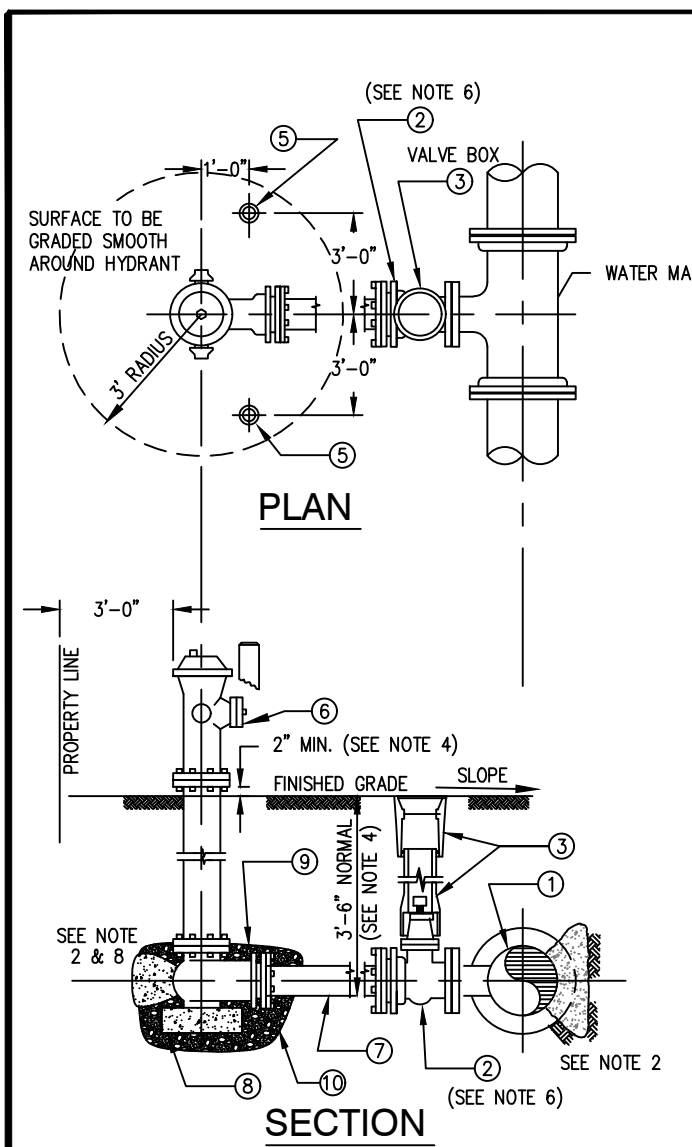
TITLE **WSUD - BAKER WATER MAIN**
WATER DETAILS

CLIENT **WEST SOUND UTILITY DISTRICT**
2924 SE LUND AVENUE
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JOB No. **3046** SHT **5** OF **5** SHTS



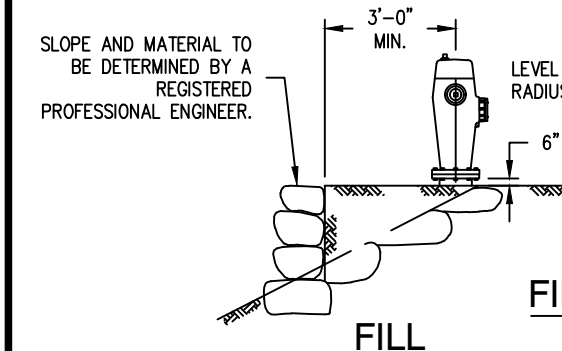
BILL OF MATERIALS		
No.	NOMENCLATURE	REQUIRED
1	MJ x FL TEE	1
2	VALVE WITH FLG. x M.J. CONNECTIONS, SEE NOTE 6.	1
3	2 PIECE CAST IRON VALVE BOX	1
4	NOT USED	
5	REINFORCED CONCRETE GUARD POST 9" x 6" (PRIVATE PROP. ONLY)	2
6	FIRE HYDRANT WITH STORTZ ADAPTER	1
7	PIPE, 6" CL. 52 D.I., FIELD CUT WITH MEGALUG RETAINER GLANDS	1
8	12" x 12" x 4" SOLID CONCRETE BEARING BLOCK (If Required)	1
9	1/4" C.Y. DRAIN ROCK, 1-1/2" - 3/4", NO FINES, 7 C.F. OF 1/8" WASHED ROCK WRAPPED IN GEOTEXTILE FABRIC	
10	6' 02' GEOTEXTILE FABRIC	

NOTES:

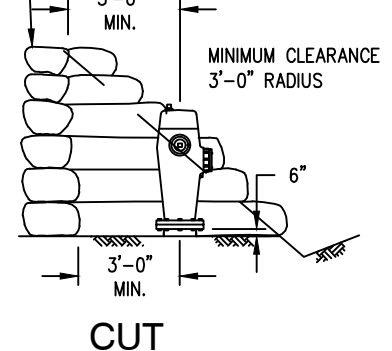
- ALL MATERIALS AND BRANDS MUST BE APPROVED BY DISTRICT.
- 6-INCH MEG-A-LUGS ARE TO BE INSTALLED AT VALVE AND HYDRANT M.J. OUTLETS.
- HYDRANT SHALL HAVE DISTRICT'S STANDARD HOSE THREADS AND OPERATING NUTS.
- HYDRANT LENGTH AND TRENCH DEPTH SHALL BE SO AS TO PROVIDE FOR HYDRANT SETTING AT CORRECT ELEVATION RELATIVE TO FINISH GRADE.
- SET HYDRANT VERTICAL. USE LEVEL. COMPACT ALL BACKFILL.
- VALVE SHALL BE AWWA STANDARD GATE, 10" RING PACKING, NON-RISEING STEM, 2" OPERATION NUT, RESILIENT WEDGE GATE.
- TOP OF GUARD POST TO BE LEVEL WITH TOP OF HYDRANT.
- WHEN GUARD POSTS ARE USED, THE TOP OF THE POST WILL BE LEVEL WITH THE HYDRANT.
- FOR CENTER STEM HYDRANTS THE CONCRETE BLOCK WILL BE BELOW THE DRAIN HOLES AND DRAIN ROCK. TAKE CARE TO NOT PLUG DRAIN HOLES OR CONTAMINATE DRAIN ROCK.
- ALL HYDRANTS SHALL BE FURNISHED WITH STORTZ COUPLINGS.
- ALL HYDRANTS AND BENDS SHALL BE SECURED WITH MEGA-LUGS.
- STENCIL THE DISTANCE FROM THE FOOT VALVE ON THE HYDRANT BARREL WITH 1-1/2" LETTERS.

NOTE: ANY HYDRANT RUN OVER ONE FULL LENGTH OF PIPE, SHALL HAVE A RESTRAINED JOINT GASKET EQUAL TO FIELD JOINT GASKETS.

SLOPE AND MATERIAL TO BE DETERMINED BY A REGISTERED PROFESSIONAL ENGINEER.



FIRE HYDRANT LOCATION
IN CUT AND FILL

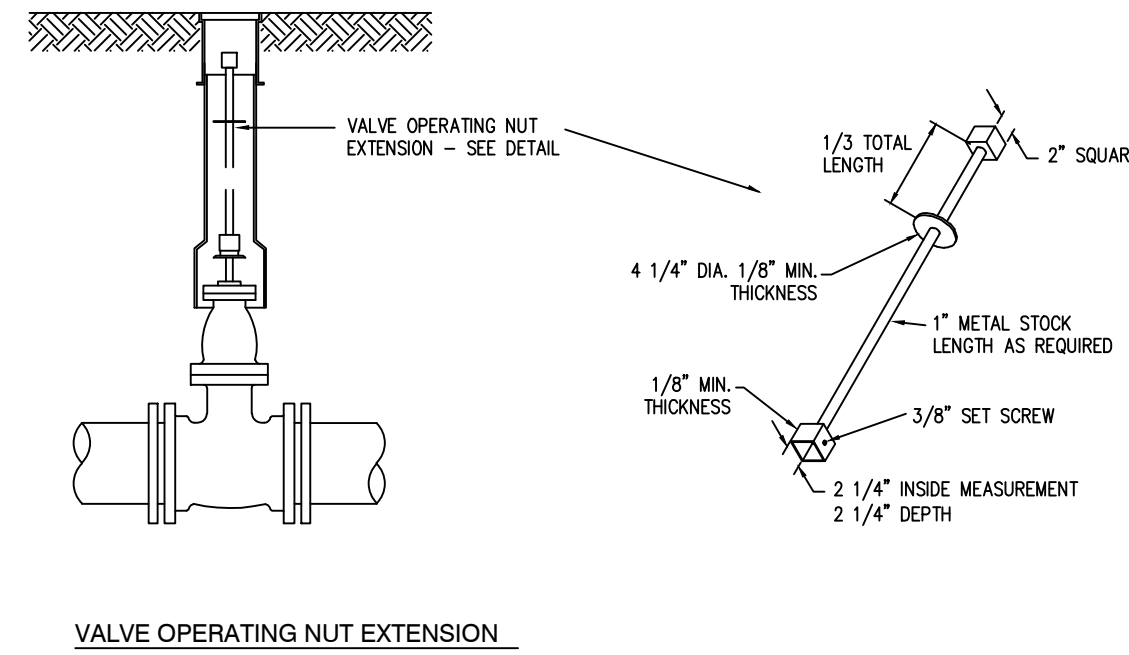


West Sound West Sound Utility District
Standard Water Details

Fire Hydrant Assembly

REVISED: December 2010

3 FIRE HYDRANT IN CUT AND FILL
NTS



VALVE OPERATING NUT EXTENSION

EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN THREE (3) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF ONE (1) FOOT LONG, ONLY ONE EXTENSION PER VALVE. ALL EXTENSIONS ARE TO BE MADE OF STEEL SIZED AS NOTED, AND PAINTED WITH TWO COATS OF CARBON ELASTIC (ATCO NO. 2221) OR APPROVED EQUAL.

GENERAL MISCELLANEOUS DETAILS

West Sound West Sound Utility District
Standard Water Details

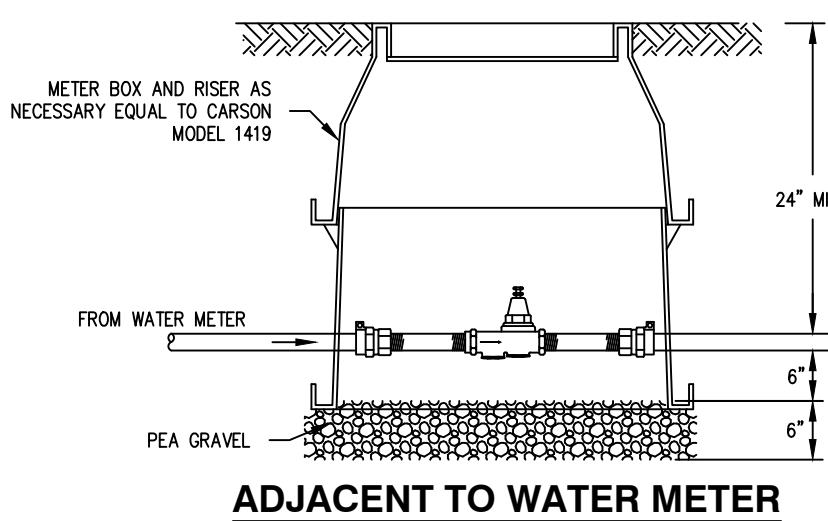
Valve Extension

REVISED: FEBRUARY 2008

4 VALVE EXTENSION
NTS

INSTALLATION

THE PRESSURE REDUCING VALVE SHALL BE LOCATED ON THE CUSTOMER'S PROPERTY "DOWNSTREAM" OF THE METER BOX. THE FUNCTION OF A PRESSURE REDUCING VALVE IS TO REDUCE HIGH-WATER PRESSURES IN THE SERVICE CONNECTION TO AN ACCEPTABLE RANGE OF 50 TO 75 PSI. INSTALLATION OF A PRESSURE REDUCING VALVE IS REQUIRED WHERE THE SERVICE CONNECTION PRESSURE EXCEEDS 80 PSI IN ACCORDANCE TO THE UNIFORM PLUMBING CODE.



ADJACENT TO WATER METER

THE CUSTOMER IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE.

West Sound West Sound Utility District
Standard Water Details

Service Pressure Reducing Valve

REVISED: August 2014

6 INDIVIDUAL PRESSURE REDUCING VALVE
NTS