

**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

1. 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.
  2. CONTRACTOR TO POTHOLE AND VERIFY EXISTING PIPE CONNECTION MATERIALS AND SIZE.
  3. ALL JOINTS TO BE MEGALUG AND THRUST BLOCKED.
  4. CONTRACTOR RESPONSIBLE FOR HOLDING POWER POLES AS NEEDED DURING CONSTRUCTION.
  5. 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**

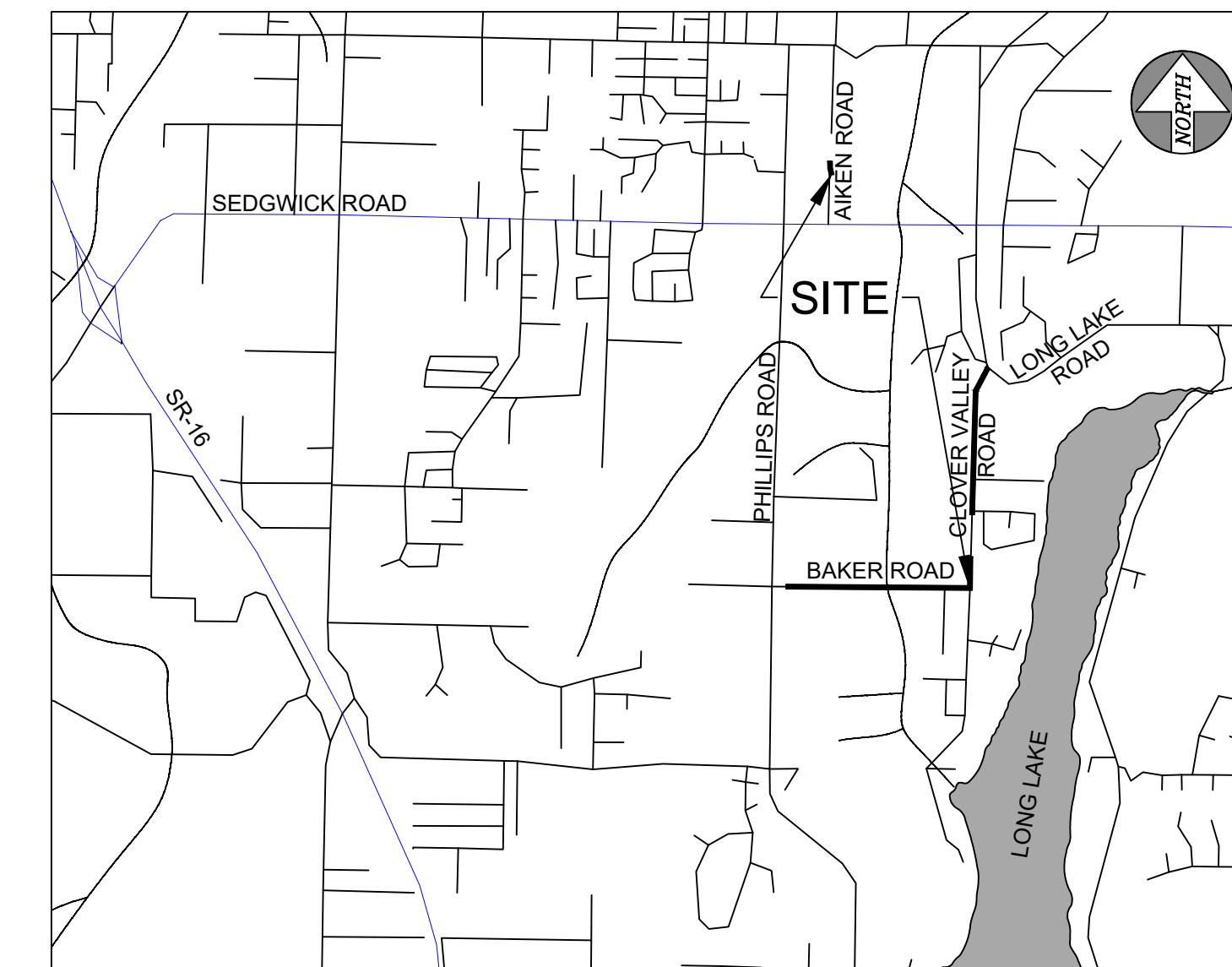
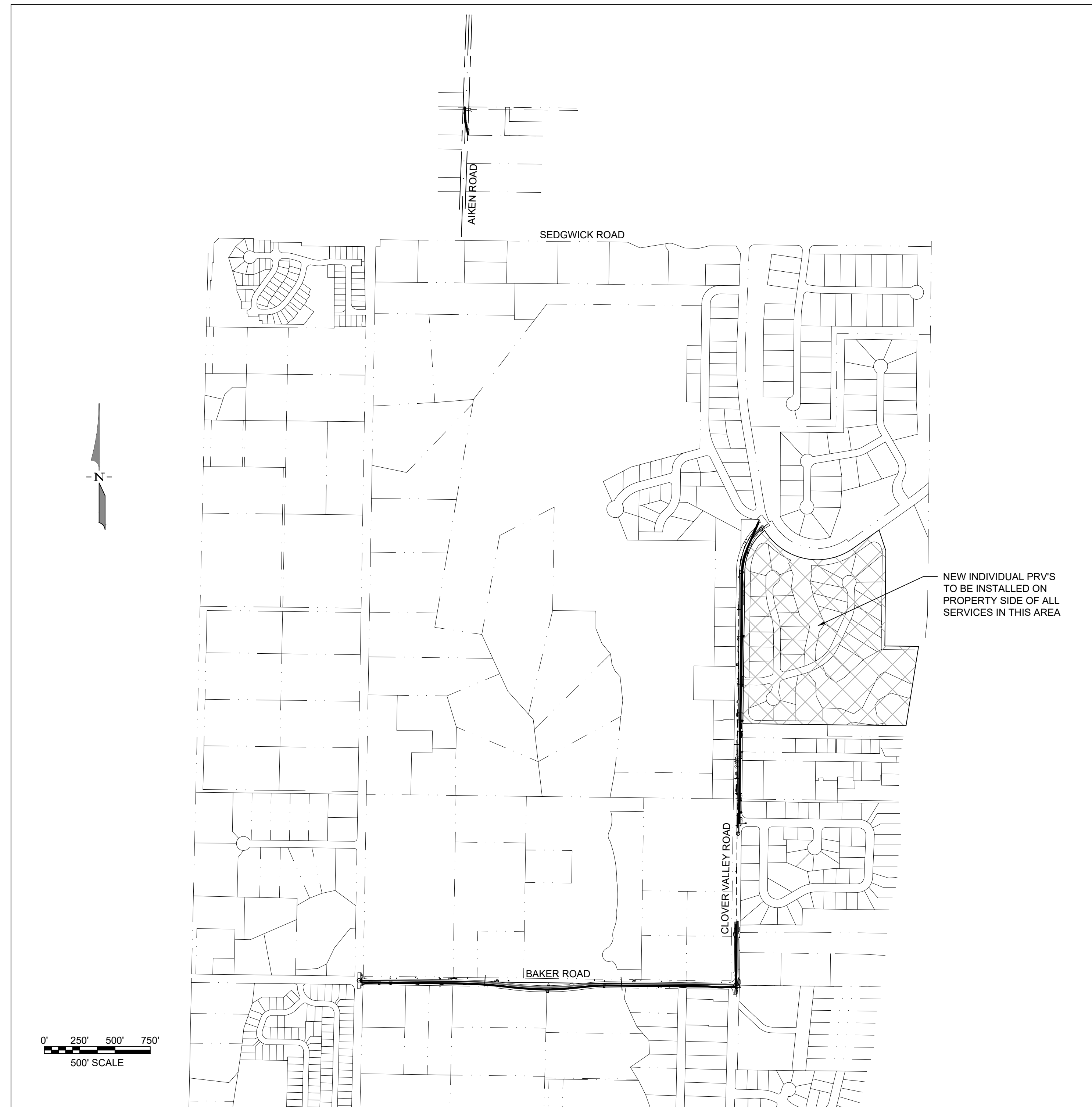
NTS

**ABANDONMENT OF WATER LINES:**

1. 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.
2. 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.
3. COORDINATE WITH WESTSOUND UTILITY DISTRICT (WSUD) FOR WRITTEN NOTIFICATIONS OF WATER SERVICE INTERRUPTION TO ALL AFFECTED ADDRESSES 1 WEEK IN ADVANCE.
4. 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.
5. REMOVE ALL WATER LINE APPURTENANCES SUCH AS HYDRANTS, VALVES, AND VALVE CASING AND CASTINGS. THESE APPURTENANCES MUST BE RETURNED TO THE DESIGNATED WSUD REPRESENTATIVE.
6. 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.
7. 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.
8. 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



**1 VICINITY MAP**

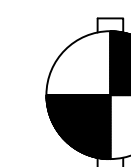
NTS

**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

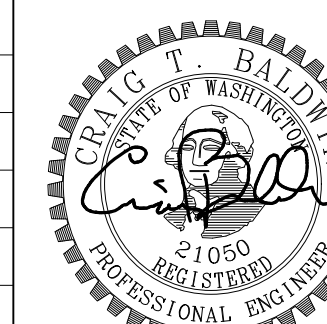
**SHEET INDEX**

- 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



217 S.W. Wilkins Drive  
 Phone (360) 876-3770  
 E-mail: wse@wsengineering.com

Port Orchard, Wa. 98366  
 Fax (360) 876-0439  
 http://www.wsengineering.com

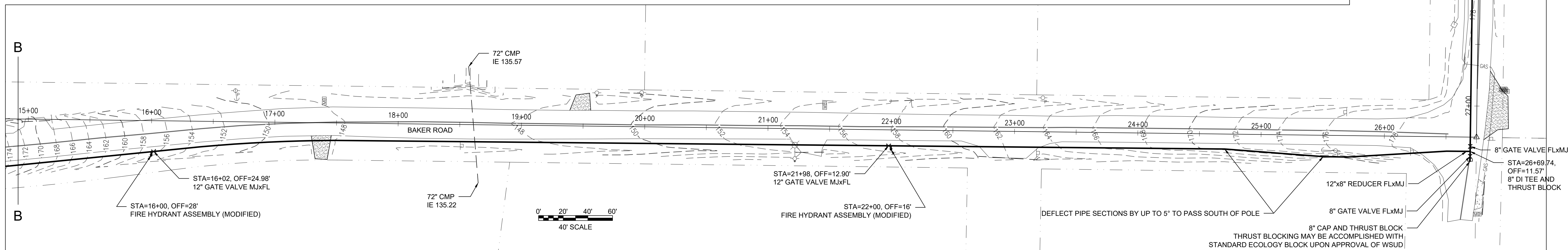
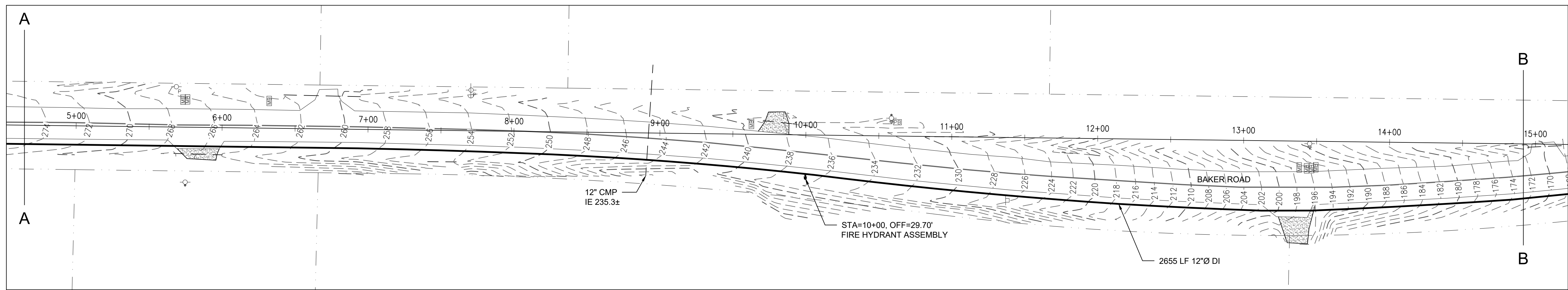
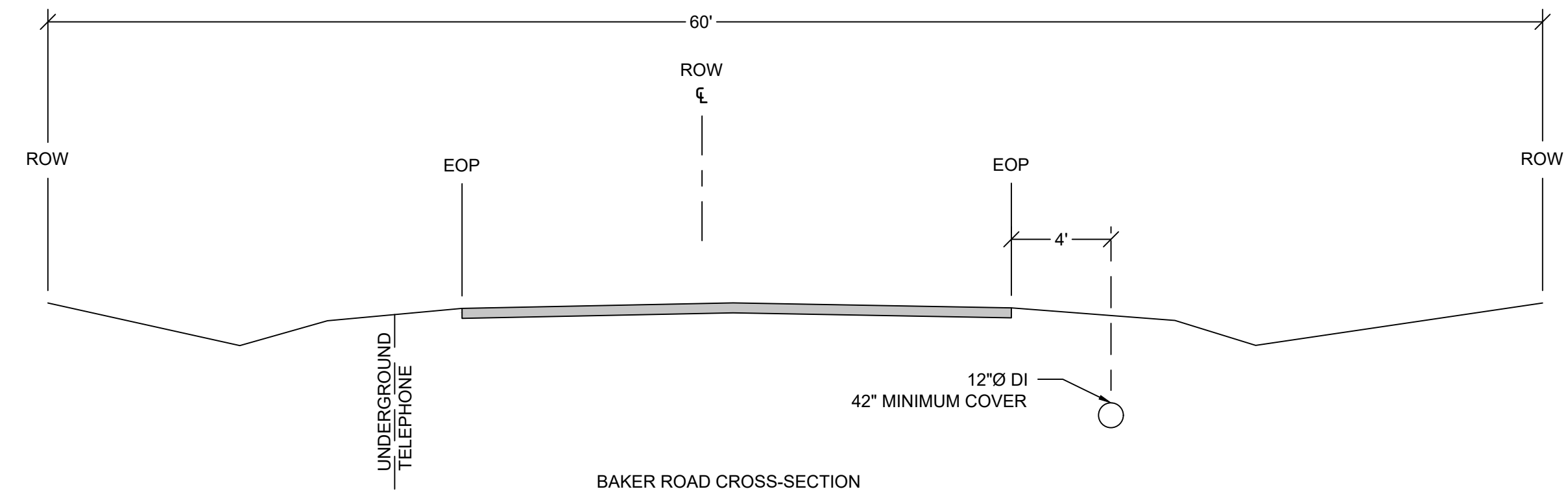
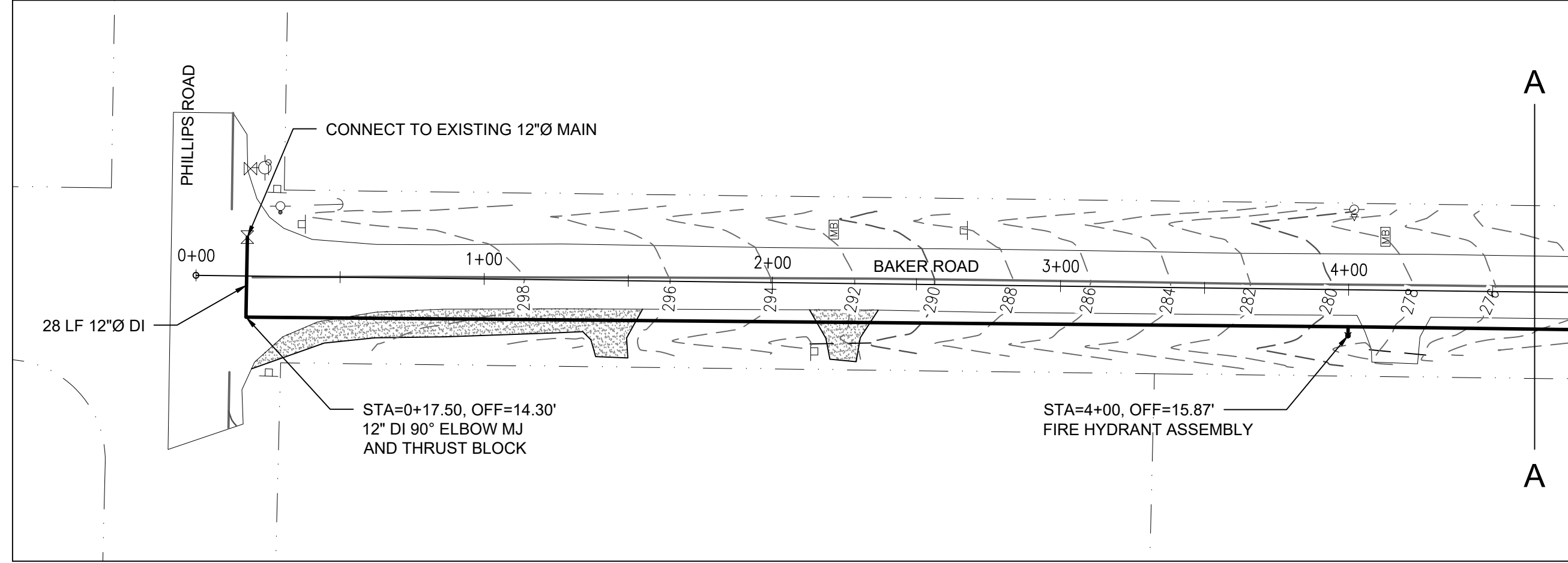
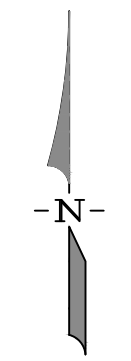
JOB No. **3046** SHT **1** OF **5** SHTS

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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



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 WAC OUTLINED IN CHAPTER 332-120 IS COMPLIED WITH.

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**  
 ENGINEERING, PLANNING AND SURVEYING

217 S.W. Wilkins Drive  
 Phone (360) 876-3770  
 E-mail: wse@wsengineering.com

Port Orchard, Wa. 98366  
 Fax (360) 876-0439  
 http://www.wsengineering.com

JOB No. **3046** SHT **2** OF **5** SHTS

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# WSUD - BAKER WATER MAIN

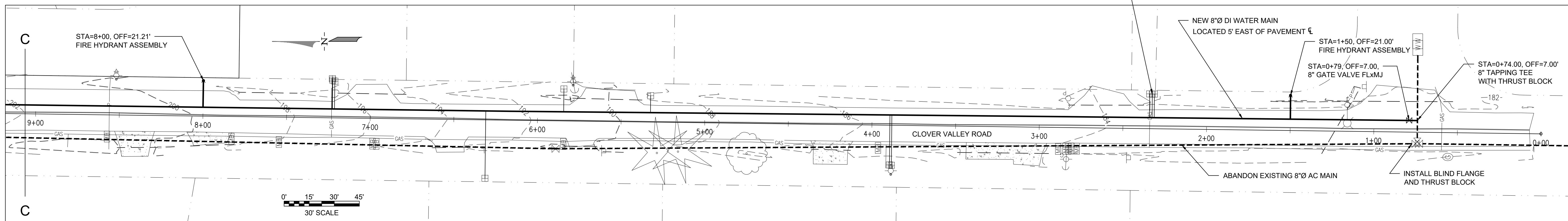
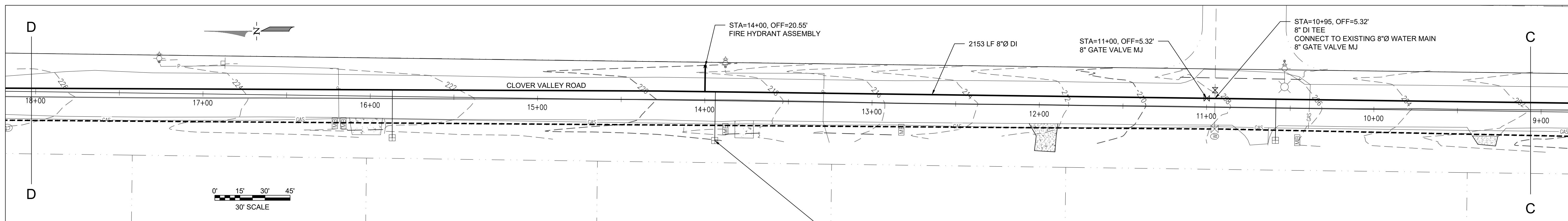
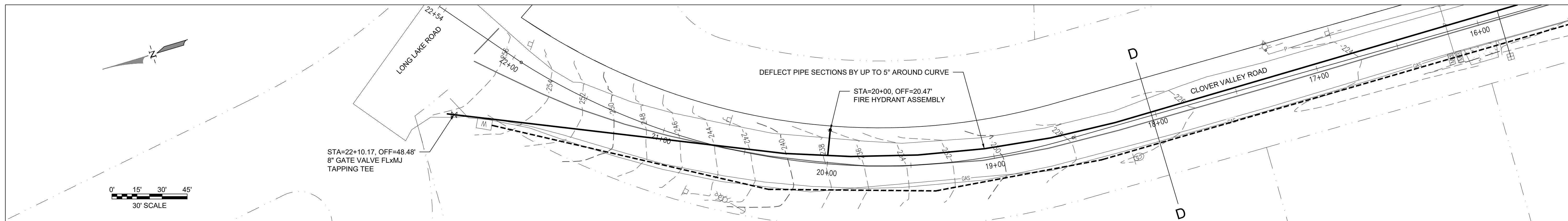
## CLOVER VALLEY ROAD WATER PLAN

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

NOTE:

Due to location of new water main within Clover Valley Rd, restoration is anticipated to be a full-lane replacement for the north bound lane from -sta 0+70 to the end of the project.

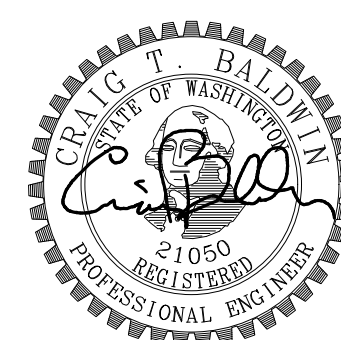
Abandoned AC water main to be removed and disposed of off site.



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



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



217 S.W. Wilkins Drive  
Phone (360) 876-3770  
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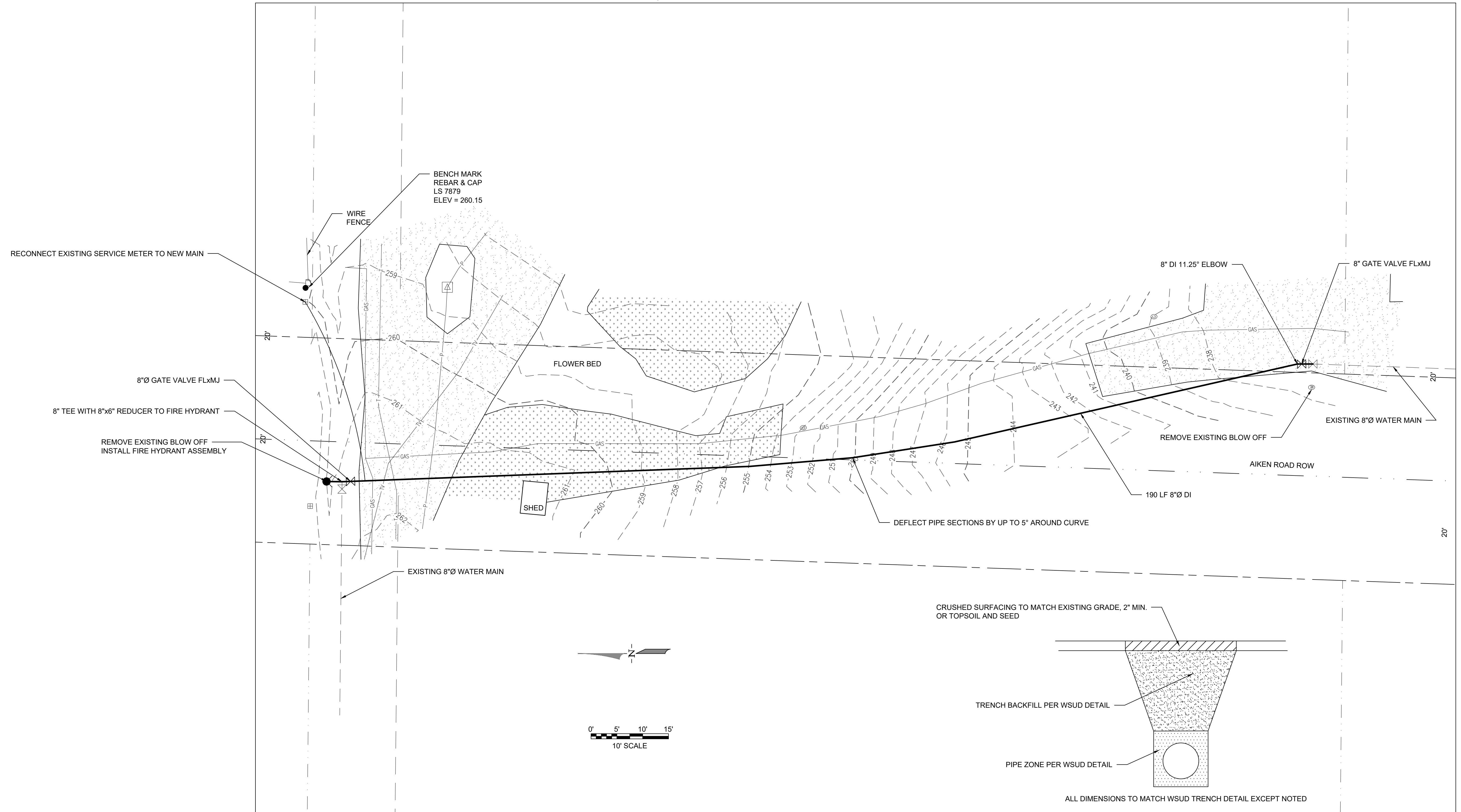
JOB No. **3046** SHT **3** OF **5** SHTS

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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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DESIGNED BY	MJM					
DRAWN BY	PWB					
CHECKED BY	MJM					
SEC	7	TWN	23N	R	2E	
SCALE	1"=10'	REV.		DESCRIPTION	DATE	BY
					DATE SEALED	9/30/2021



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

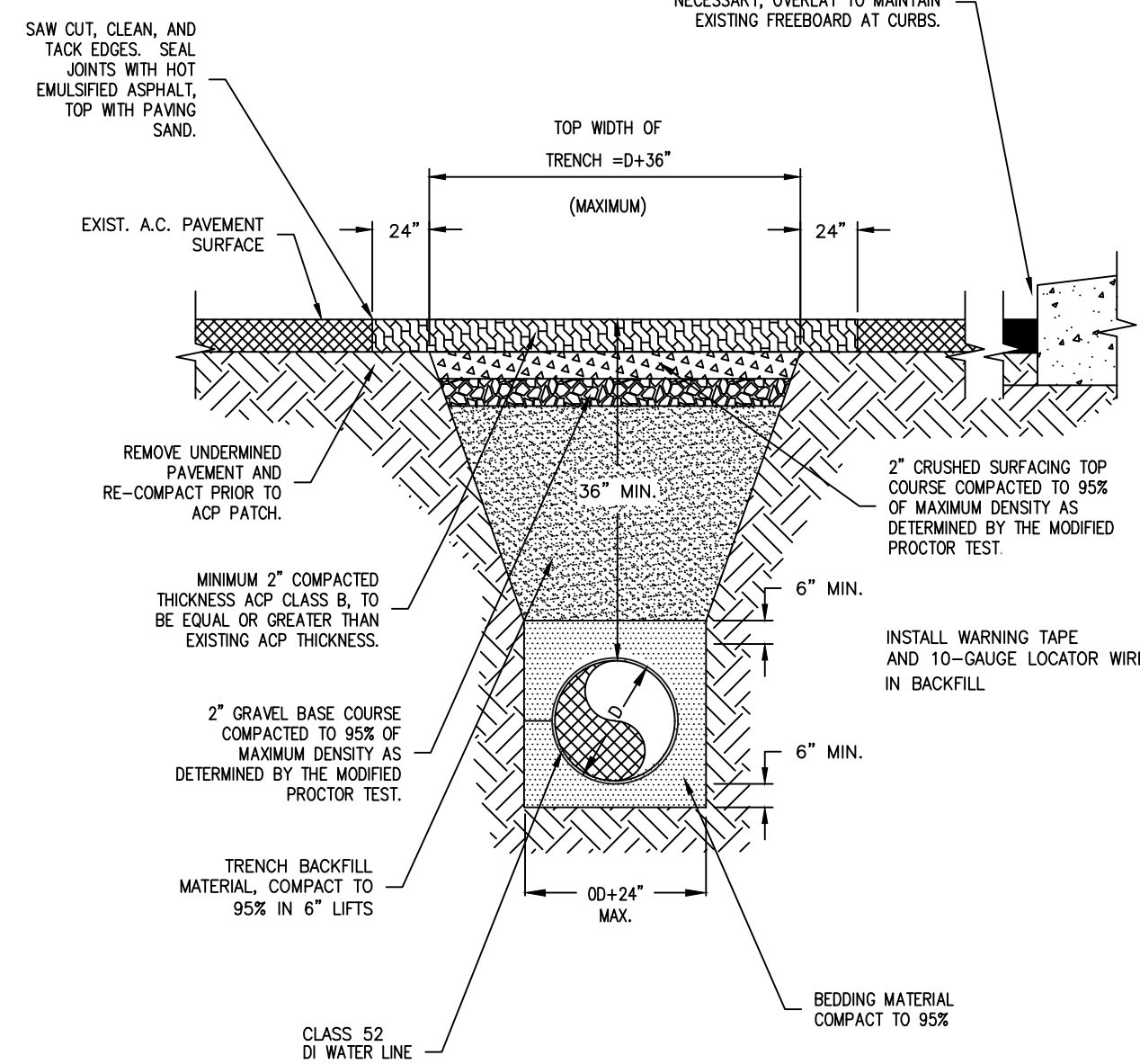
CLIENT  
**WEST SOUND UTILITY DISTRICT**  
 2924 SE LUND AVE  
 PORT ORCHARD, WA 98366  
 (360) 876 - 2545

**WSE WestSound Engineering, Inc**  
 ENGINEERING, PLANNING AND SURVEYING

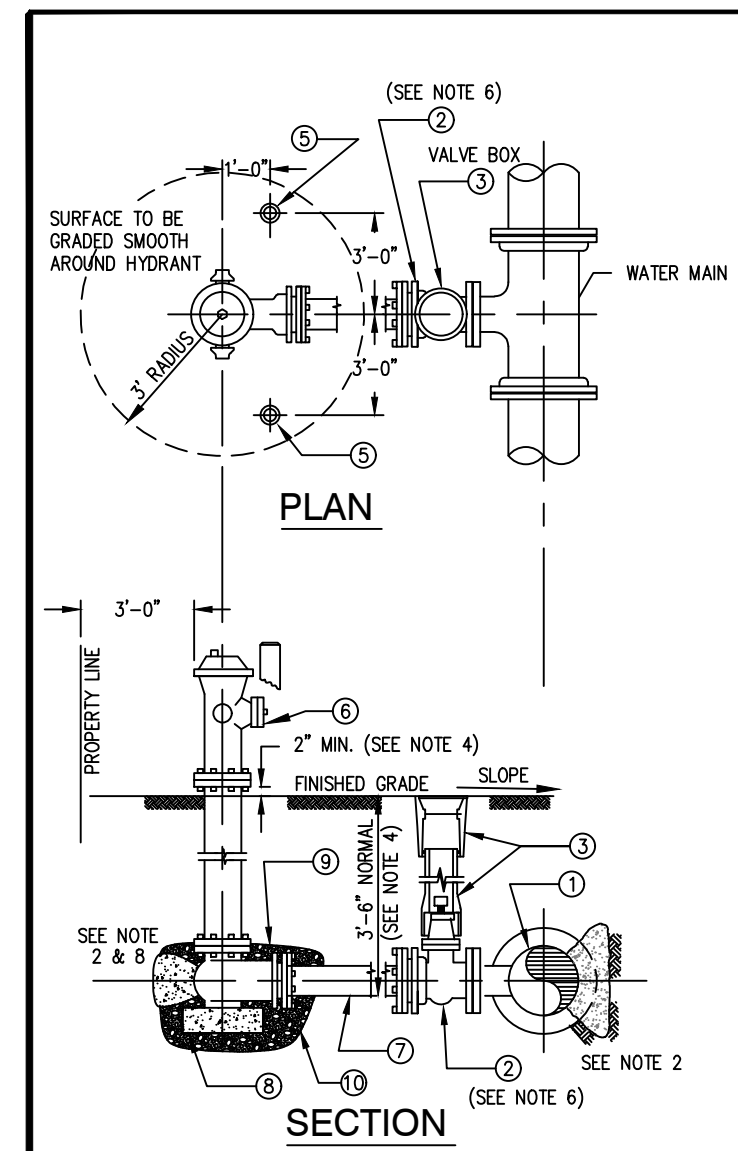
217 S.W. Wilkins Drive Port Orchard, Wa. 98366  
 Phone (360) 876-3770 Fax (360) 876-0439  
 E-mail: wse@wsengineering.com http://www.wsengineering.com

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

# WSUD - BAKER WATER MAIN WATER DETAILS



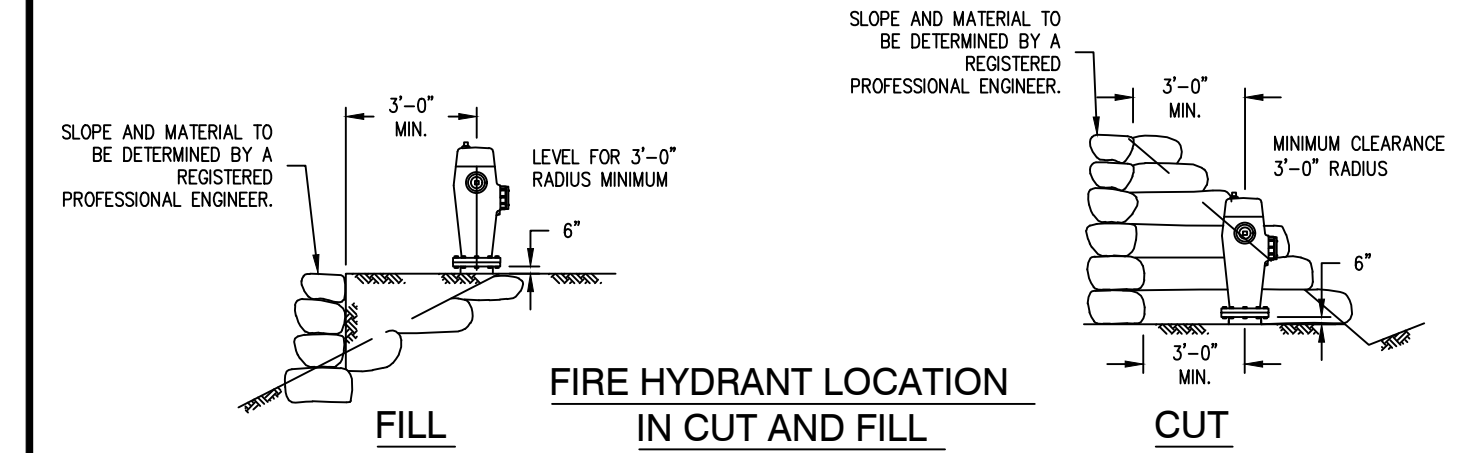
**WATERLINE TRENCH DETAIL**  
NOT TO SCALE



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:
1. ALL MATERIALS AND BRANDS MUST BE APPROVED BY DISTRICT.
  2. 6-INCH MEG-A-LUGS ARE TO BE INSTALLED AT VALVE AND HYDRANT M.J. OUTLETS.
  3. HYDRANT SHALL HAVE DISTRICT'S STANDARD HOSE THREADS AND OPERATING NUTS.
  4. HYDRANT LENGTH AND TRENCH DEPTH SHALL BE SO AS TO PROVIDE FOR HYDRANT SETTING AT CORRECT ELEVATION RELATIVE TO FINISH GRADE.
  5. SET HYDRANT VERTICAL. USE LEVEL. COMPACT ALL BACKFILL.
  6. VALVE SHALL BE AWWA STANDARD GATE, 10" RING PACKING, NON-RISEING STEM, 2" OPERATION NUT, RESILIENT WEDGE GATE.
  7. TOP OF GUARD POST TO BE LEVEL WITH TOP OF HYDRANT.
  8. WHEN GUARD POSTS ARE USED, THE TOP OF THE POST WILL BE LEVEL WITH THE HYDRANT.
  9. 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.
  10. ALL HYDRANTS SHALL BE FURNISHED WITH STORTZ COUPLINGS.
  11. ALL HYDRANTS AND BENDS SHALL BE SECURED WITH MEGA-LUGS.

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



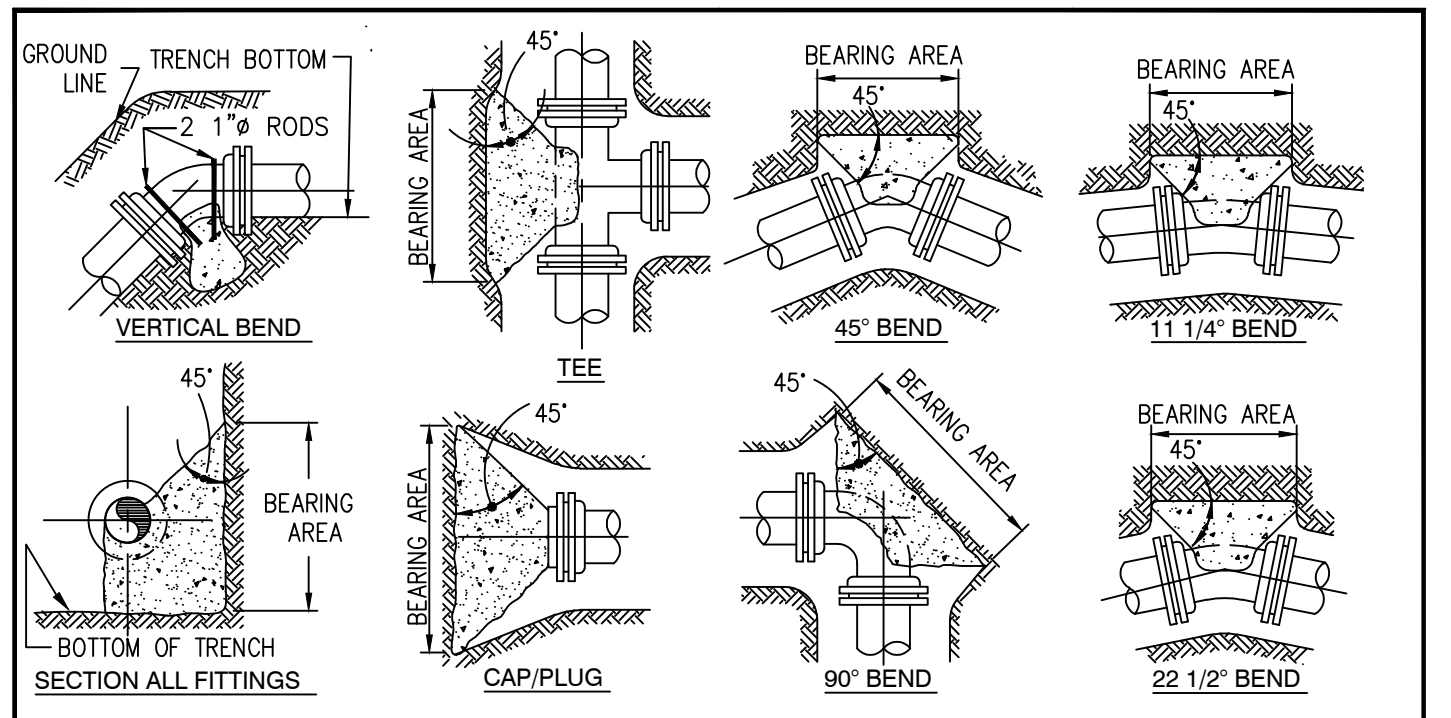
**FIRE HYDRANT LOCATION IN CUT AND FILL**

**West Sound Utility District Standard Water Details**  
REVISED: December 2010

**3 FIRE HYDRANT IN CUT AND FILL**  
NTS

**West Sound Utility District Standard Water Details**  
**Water Main Trench**  
REVISED: FEBRUARY 2008

**1 WATER MAIN TRENCH**  
NTS



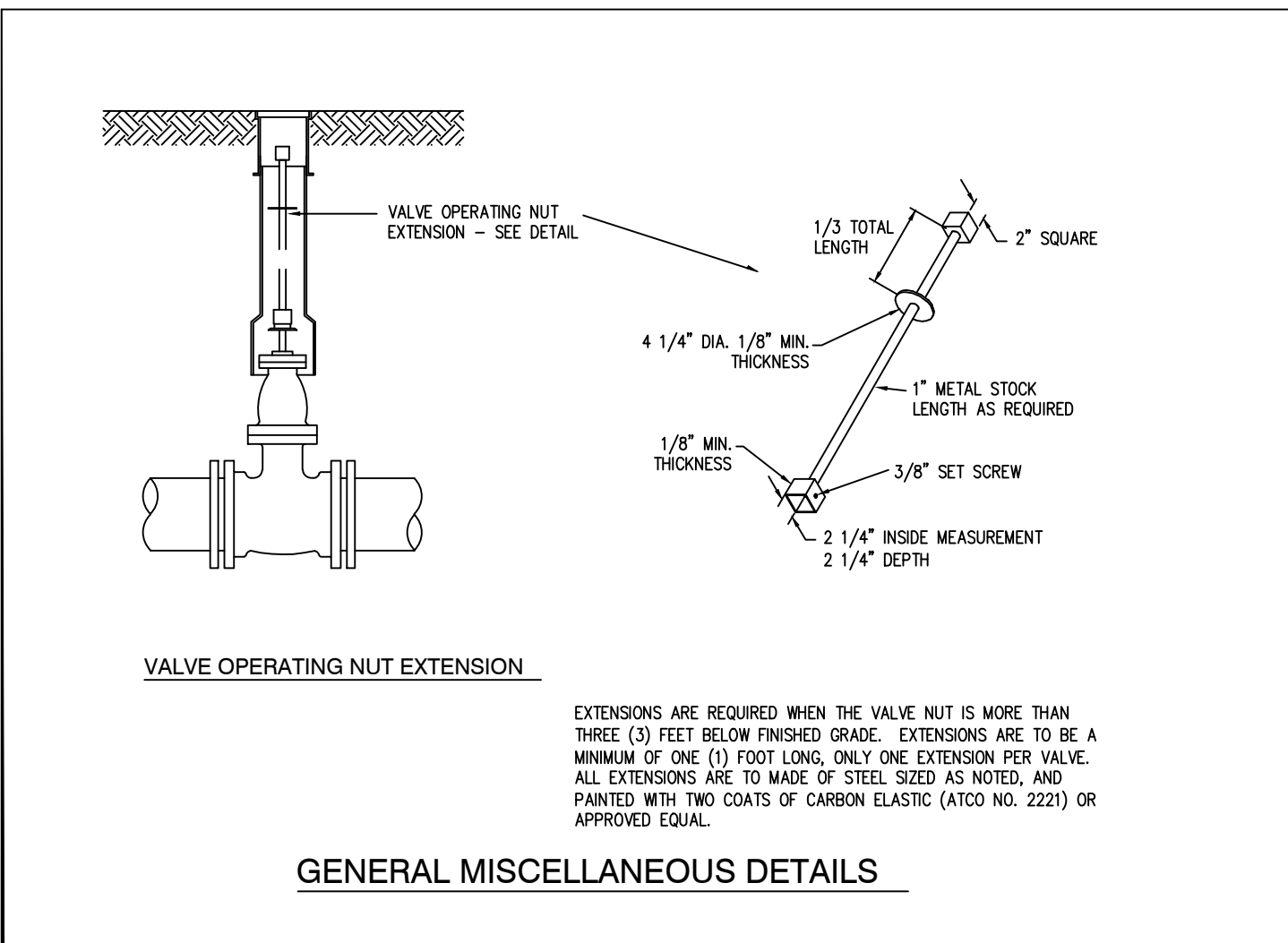
PIPE SIZE	PIPE SIZE	THRUST BLOCK REQUIREMENTS														
		TEE/CAP OR PLUG				90 Degree BEND				45 Degree BEND				22.5 Degree BEND		
nominal	outside dia.	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi	psi
4	4.80	1.8	2.0	2.3	2.6	2.9	3.2	1.4	1.6	1.7	0.7	0.8	0.9	0.4	0.4	0.4
6	6.90	3.7	4.2	4.7	5.3	5.9	6.6	2.9	3.2	3.6	1.5	1.8	1.8	0.7	0.8	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
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
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
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
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

- NOTES:
1. 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.
  2. KEEP CONCRETE CLEAR OF JOINTS AND ACCESSORIES. USE FORMING AS NECESSARY.
  3. HORIZONTAL ANCHOR BLOCKING CONFIGURATIONS FOR FITTINGS NOT SHOWN SHALL HAVE PRIOR APPROVAL.
  4. THE SQUARE FOOT AREAS REQUIRED FOR BEARING ARE CALCULATED BY THE FOLLOWING FORMULAS:  
 FORMULA AT TEE & CAP OR PLUG:  
 $T = \frac{P}{A}$   
 T = THRUST IN POUNDS  
 A = CROSS-SECTIONAL AREA OF PIPE IN SQUARE INCHES  
 K = RATED 2000 PSF SOIL BEARING PRESSURE  
 5. 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
- MUCK, PEAT, ETC. 1,000  
 SOFT CLAY, SILT 2,000  
 SAND, SANDY SILT 3,000  
 SAND AND GRAVEL 4,000  
 SAND AND GRAVEL CEMENTED W/CLAY 10,000  
 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 Utility District Standard Water Details**  
**Thrust Blocking**  
REVISED: FEBRUARY 2008

**2 THRUST BLOCKING DETAIL**  
NTS

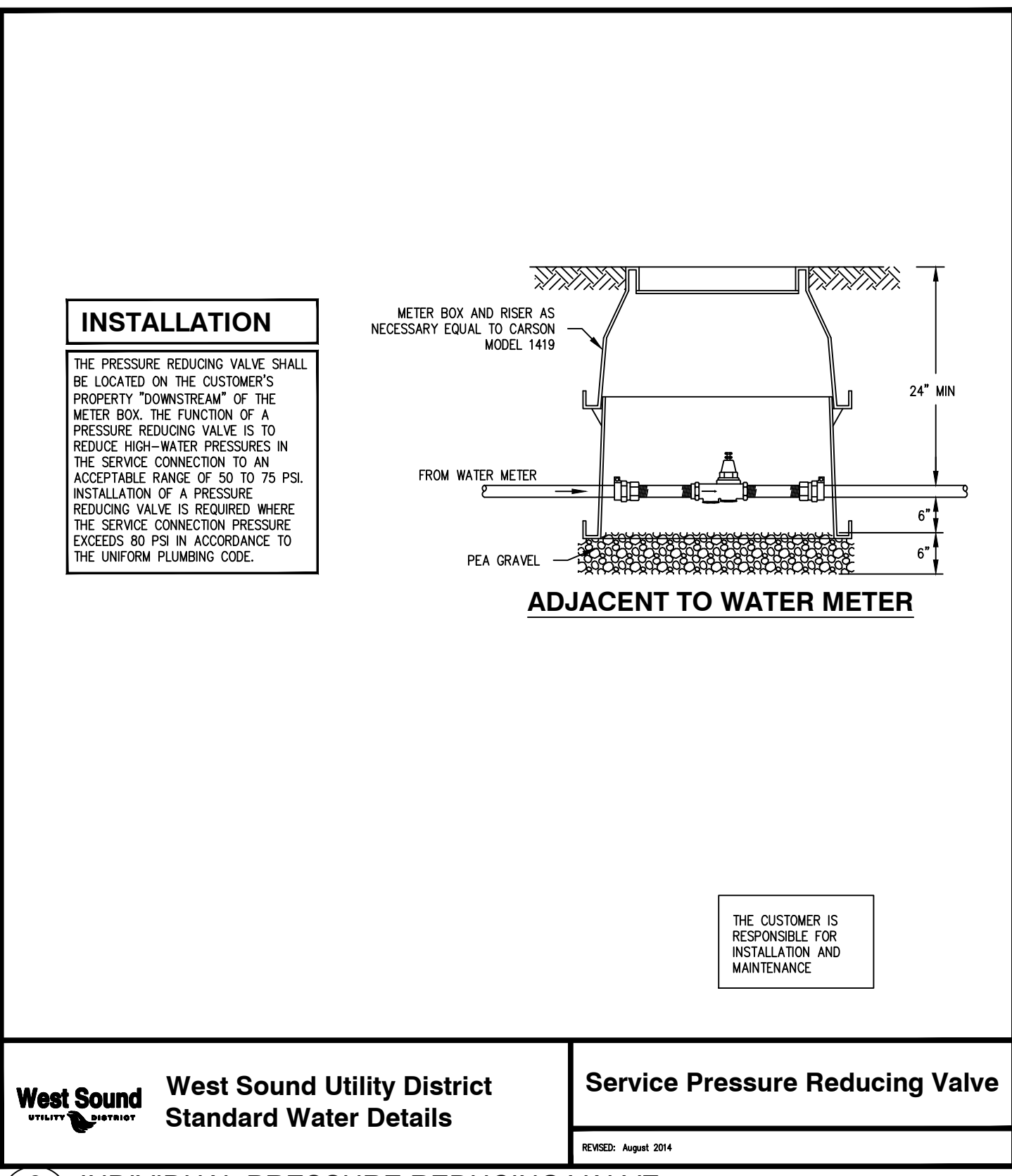
DESIGNED BY	MJM
DRAWN BY	PWB
CHECKED BY	MJM
SEC	7 TWN 23N R 2E
SCALE	
REV.	
DESCRIPTION	
DATE	
BY	
DATE SEALED	9/30/2021



**GENERAL MISCELLANEOUS DETAILS**

**West Sound Utility District Standard Water Details**  
**Valve Extension**  
REVISED: FEBRUARY 2008

**4 VALVE EXTENSION**  
NTS



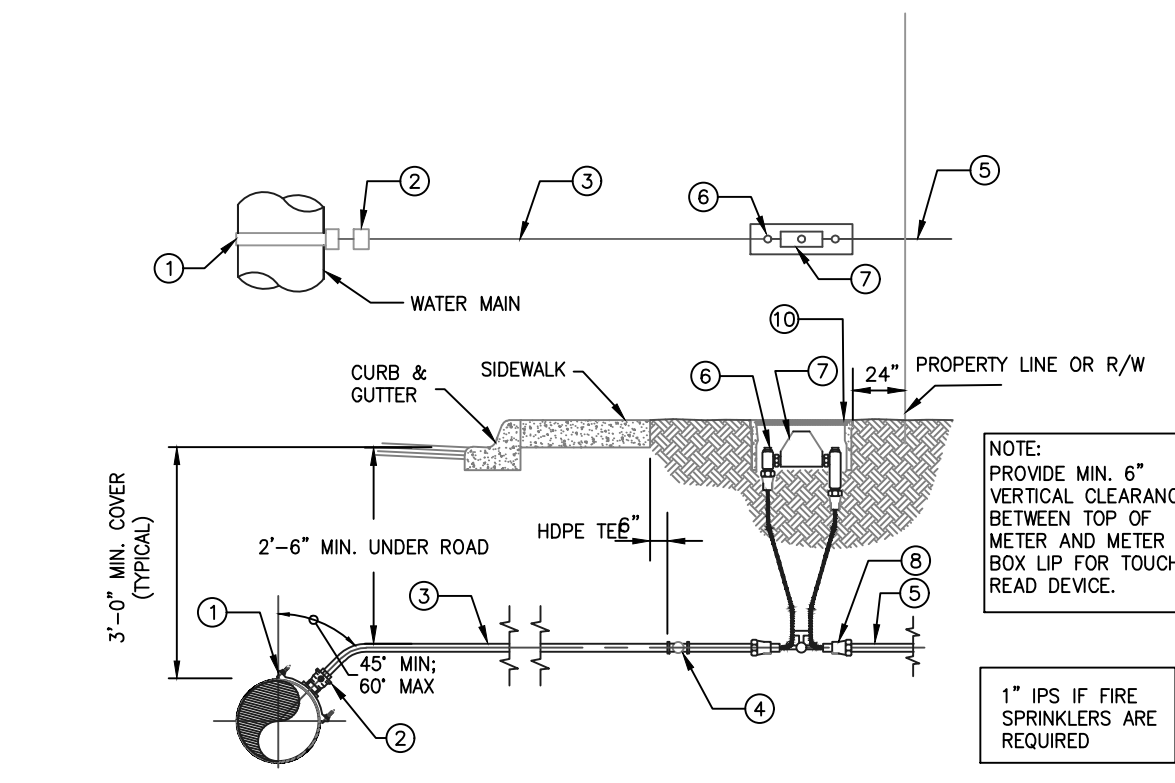
**6 INDIVIDUAL PRESSURE REDUCING VALVE**  
NTS

**West Sound Utility District Standard Water Details**  
**Service Pressure Reducing Valve**  
REVISED: August 2014

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

SERVICE CONNECTION PROTOCOL	
FOR EXISTING WATER SERVICES	PROCEDURE PROVIDE AND INSTALL METER BOX ADJACENT TO EXISTING. COORDINATE WITH DISTRICT FOR INSTALLATION OF METER. NOTIFY PROPERTY OWNER OF SERVICE INTERRUPTION (24 HOUR NOTICE REQUIRED). CONNECT DISTRICT PROVIDED METER TO EXISTING SERVICE. CONTRACTOR TO PROVIDE AND INSTALL ALL PIPE, COUPLINGS AND FITTINGS FOR A COMPLETE CONNECTION.
FOR VACANT (OR FUTURE SERVICE) LOTS	PROVIDE AND INSTALL METER BOX AT PROPERTY LINE. STUB OUT OF METER SETTER WITH 3 FEET OF PE SERVICE PIPE AND CAP.

1. WHENEVER AND WHEREVER POSSIBLE SINGLE SERVICE CONNECTIONS SHALL BE GROUPED CLOSE TOGETHER ON CORRESPONDING LOTS.
2. ON LONGER DISTANCE RUNS THE SERVICE PIPE MAY BE UPSIZED TO 1" FOR VOLUME PURPOSES



NO.	ITEM	MANUFACTURER AND NO. AND/OR DESCRIPTION	SINGLE SERVICE	SERVICES OVER 1"
1	SADDLE	ROMAC 1015	SINGLE STRAP SADDLE	DOUBLE STRAP SADDLE
2	CORP. STOP	FORD FB1100-3 OR EQUAL- FOR IPS PIPE (3/4")	3/4"	3/4"
3	SERVICE PIPE	PE 3408, SDR 7 BLUE IPS POLY PIPE (3/4")	3/4"	3/4"
4	NOT IN USE	----		
5	PIPE	SEE "SERVICE CONNECTION PROTOCOL"		
6	METER SETTER	FORD VBH72-12W WITH VALVE, 12" RISE TOUCH READ, SUPPLIED BY DISTRICT	3/4" x 5/8"	3/4"
7	METER	TOUCH READ, SUPPLIED BY DISTRICT	3/4"	3/4"
8	COUPLING	MATCH EXISTING PIPE TYPE (FORD JOINT W/STIFFENER)	3/4" x 5/8"	
9	BOX	MID-STATE PLASTICS MODEL MSBCF 1118 W/DI LID AND TRPL HOLE		
10	MOUNTING HOLE	1-3/4" HOLE FOR TOUCH READ PAD		

**West Sound Utility District Standard Water Details**  
**Single and Double Water Service**  
REVISED: MARCH 2019

**5 SERVICE DETAIL**  
NTS