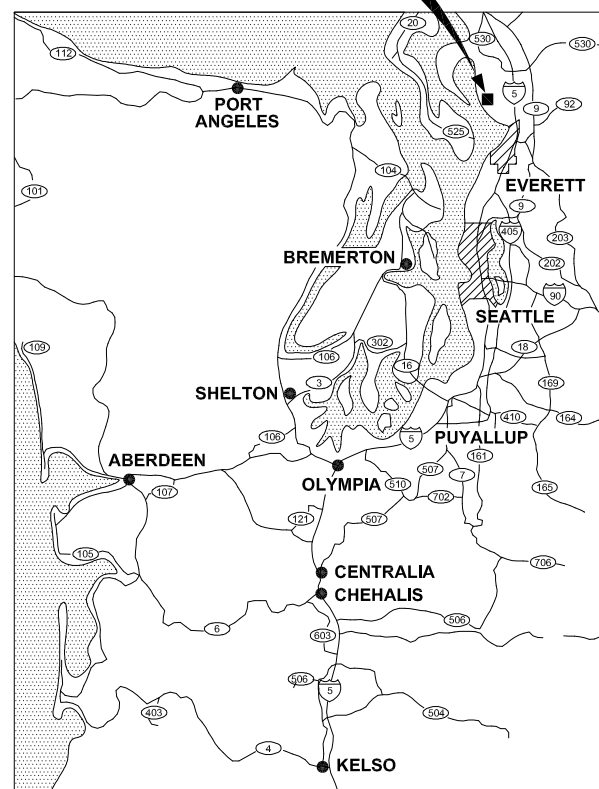


# THE TULALIP TRIBES TULALIP BAY WATER SYSTEM IMPROVEMENTS - PHASE 1 PROJECT



## HERMOSA BEACH ROAD AND FRYBERG ESTATES TULALIP INDIAN RESERVATION SNOHOMISH COUNTY

PROJECT LOCATION



VICINITY MAP  
NO SCALE



LOCATION MAP  
NO SCALE

DRAWING INDEX		
DWG NO.	SHEET NO.	SHEET TITLE
GENERAL		
G1	01	COVER SHEET, PROJECT VICINITY & LOCATION MAPS, AND DRAWING INDEX
G2	02	LEGEND & ABBREVIATIONS
KM1	03	KEY MAP
HC1	04	HORIZONTAL CONTROL PLAN
HC2	05	HORIZONTAL CONTROL PLAN
HC3	06	HORIZONTAL CONTROL PLAN
WATER		
W1	07	WATER PLAN & PROFILE HERMOSA BEACH RD
W2	08	WATER PLAN & PROFILE HERMOSA BEACH RD
W3	09	WATER PLAN & PROFILE HERMOSA BEACH RD
W4	10	WATER PLAN & PROFILE HERMOSA BEACH RD
W5	11	WATER PLAN & PROFILE 76TH ST NW
W6	12	WATER METER AND PRV 47TH AVE NW
W7	13	WATER METER AND PRV 47TH AVE NW
W8	14	WATER METER AND PRV 45TH AVE NW
W9	15	WATER METER AND PRV 46TH AVE NW
W10	16	WATER METER AND PRV 76TH ST NW
W11	17	WATER METER AND PRV 77TH ST NW
W12	18	WATER METER AND PRV 77TH ST NW & 78TH PL NW
W13	19	WATER METER AND PRV 78TH PL NW
W14	20	WATER METER AND PRV 79TH ST NW
W15	21	WATER METER AND PRV 79TH ST NW
DETAIL		
DT1	22	WATER DETAILS
DT2	23	WATER DETAILS
DT3	24	WATER DETAILS
DT4	25	TESC DETAILS

**DESIGN STANDARDS:**

WSDOT DESIGN MANUAL 2024  
WSDOT STANDARD PLANS 2024

**STANDARD SPECIFICATIONS:**

WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION 2024

**OWNER:**

THE TULALIP TRIBES  
6406 MARINE DR  
TULALIP, WA 98271  
ATTN: CHRISTINA PARKER  
CELL: (360) 913-4205  
OFFICE: (360) 716-5024

**ENGINEER:**

PARAMETRIX  
719 2ND AVE, #200  
SEATTLE, WA 98104  
ATTN: HAPPY LONGFELLOW  
OFFICE: (206) 394-3700



Know what's below.  
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PATH: U:\PSC\Projects\Clients\1598-Tulalip Tribes\1598-158-Tulalip Bay Water System\985000\CAD\DWG\Package 1 - Hermosa-MeterPRVs PLOTTED BY: betzyjoh DATE: Tuesday, May 21, 2024 3:47:46 PM LAYOUT: G1

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME PS1598158-PH1-G1
JOB No. 216-1598-158
DATE MAY 2024



05-21-2024

**Parametrix**  
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
TULALIP BAY WATER SYSTEM  
IMPROVEMENTS - PHASE 1 PROJECT**  
TULALIP WASHINGTON

**COVER SHEET, PROJECT  
VICINITY & LOCATION MAPS,  
AND DRAWING INDEX**

DRAWING NO.  
01 OF 25  
**G1**

PATH: U:\PSO\Projects\Clients\1598-Tulalip Tribes\216-1598-158-Tulalip Bay Water System\995\cadd\DWG\Package 1 - Hermosa-MetersPRVs  
 PLOTTED BY: betzyjgh DATE: Tuesday, May 21, 2024 3:46:35 PM  
 LAYOUT: G2

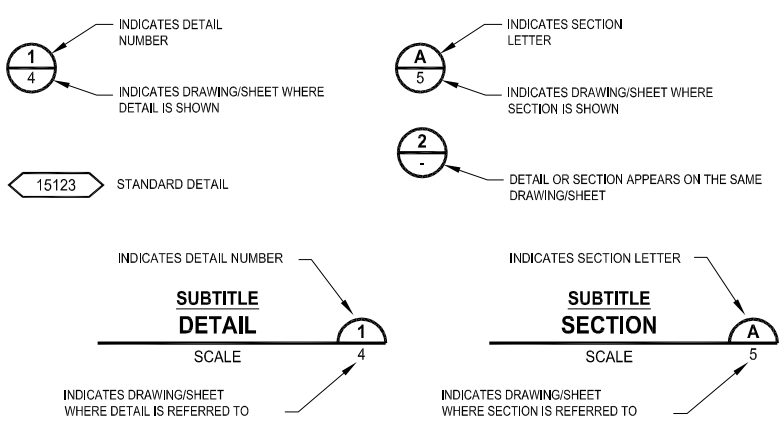
**LEGEND**

PROPOSED	EXISTING	
		FOUND CASSED/SURFACE MONUMENT
		FOUND REBAR AND CAP
		SET HUB & MAG NAIL
		SET REBAR WITH CAP
		DECIDUOUS TREE
		CONIFER TREE
		SIGN
		CATCH BASIN
		AREA DRAIN
		POWER GUY ANCHOR
		POWER GUY
		POWER POLE
		POWER POLE WITH DROP LINE, TRANSFORMER
		POWER JUNCTION BOX
		POWER METER
		POWER MANHOLE
		TELEPHONE HAND HOLE
		POWER POLE WITH LIGHT AND TRANSFORMER
		LIGHT STANDARD
		GATE POST
		WATER METER
		FIRE HYDRANT ASSEMBLY
		GATE VALVE
		BLOWOFF ASSEMBLY
		ARV ASSEMBLY
		MAIL BOX
		WOOD POST
		FLAG POST
		STANDARD MANHOLE
		UNDERGROUND TELECOM
		UNDERGROUND POWER
		OVERHEAD POWER
		WATER SERVICE LINE, SIZE AS NOTED
		WATER LINE, SIZE AS NOTED
		SANITARY SEWER GRAVITY MAIN, SIZE AS NOTED
		STORM DRAIN PIPE, SIZE AS NOTED
		EDGE OF ASPHALT PAVEMENT
		CHAIN LINK FENCE
		BUILDING OUTLINE
		EDGE OF VEGETATION
		ROCKERY WALL
		PROPERTY LINE
		LOT LINE
		MINOR CONTOUR, 1 FT
		MAJOR CONTOUR, 5 FT

**ABBREVIATIONS**

AGG	AGGREGATE	G	GAS	SERV	SERVICE
APPROX	APPROXIMATE	GND	GROUND	SHT	SHEET
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	GR	GRADE	SL	SLOPE, RAW SLUDGE
ASPH	ASPHALT	GULD	GENERAL USE LEVEL DESIGNATION	SPEC	SPECIFICATION
ASSY	ASSEMBLY	GV	GATE VALVE	SQ	SQUARE
AVE	AVENUE	ID	INSIDE DIAMETER	SQFT	SQUARE FOOT, SQUARE FEET
AVG	AVERAGE	IE	INVERT ELEVATION	SQIN	SQUARE INCH, SQUARE INCHES
BC	BEGINNING OF CURVE, BOLT CIRCLE	IN	INCH	SOYD	SQUARE YARD, SQUARE YARDS
BCR	BEGINNING OF CURVE CENTER	INSTL	INSTALL, INSTALLATION	SSMH	SANITARY SEWER MANHOLE
BLDGG	BUILDING	INT	INTERIOR, INTERSECTION	ST	STREET
BLVD	BOULEVARD	INV	INVERT	STA	STATION
BM	BEAM, BENCH MARK	JB	JUNCTION BOX	STD	STANDARD
BRG	BEARING	JCT	JUNCTION	SUR	SURFACE
BVC	BEGIN VERTICAL CURVE	LAT	LATERAL, LATITUDE	SURV	SURVEY
CAP	CAPACITY	LB	POUND	SYS	SYSTEM
CEM	CEMENT	LBL	LABEL	TEL	TELEPHONE
CLR	CLEAR, CLEARANCE	LF	LINEAR FEET, LINEAR FOOT	TEMP	TEMPERATURE, TEMPORARY
CO	COUNTY, CLEANOUT	LN	LANE	THRU	THROUGH
COMP	COMPACTION	LT	LEFT	TOB	TOP OF BANK
CONC	CONCRETE	MAN	MANUAL	TOT	TOTAL
CONN	CONNECT, CONNECTION	MATL	MATERIAL	TYP	TYPICAL
CONST	CONSTRUCT, CONSTRUCTION	MIN	MINIMUM, MINUTE	UG	UNDERGROUND
CONTR	CONTRACTOR	MISC	MISCELLANEOUS	UP	UTILITY POLE
COORD	COORDINATE	MON	MONUMENT	V	VALVE, VENT, VOLT
CSBC	CRUSHED SURFACING BASE COURSE	MW	MONITORING WELL	VAR	VARIABLE, VARIATION
CSTC	CRUSHED SURFACING TOP COURSE	N	NORTH, NORTHING	VOL	VOLUME
CTR	CENTER	NIC	NOT IN CONTRACT	W	WATER, WATT, WEST, WIDTH
CUFT	CUBIC FOOT, CUBIC FEET	NO.	NUMBER	WM	WATER METER
CY	CUBIC YARD	NTS	NOT TO SCALE	WS	WATER SURFACE
DEMO	DEMOLITION	PC	POINT OF CURVATURE	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
DEPT	DEPARTMENT	PI	POINT OF INTERSECTION, PRESSURE INDICATOR		
DET	DETAIL	PIVC	POINT OF INTERSECTION FOR VERTICAL CURVE		
DIA	DIAMETER	PP	POWER POLE		
DIM	DIMENSION	PRV	PRESSURE REGULATING VALVE, PRESSURE RELIEF VALVE, PRESSURE REDUCING VALVE		
DIST	DISTANCE, DISTRICT	PSI	POUNDS PER SQUARE INCH		
DSGN	DESIGN	PT	POINT OF TANGENCY, POINT		
DWG	DRAWING	PVI	POINT OF VERTICAL INTERSECTION		
E	EAST, EASTING	PVT	PAVEMENT, PAVING, PRIVATE		
EA	EACH	PWR	POWER		
EC	END OF CURVE	QTY	QUANTITY		
EL	ELEVATION	QUAL	QUALITY		
ELL	ELBOW	R	RISER		
EOP	EDGE OF PAVEMENT	RAD	RADIUS		
EQUIP	EQUIPMENT	RD	ROAD, ROOF DRAIN		
EVC	END VERTICAL CURVE	RED	REDUCER		
EXIST	EXISTING	REF	REFERENCE		
EXL	EXCAVATE	REQD	REQUIRED		
FCR	FINE CRUSHED ROCK	RFCA	RESTRAINED FLANGED COUPLING ADAPTER		
FG	FINISH GRADE	ROT	ROTATE		
FIN	FINISH, FINISHED	ROW	RIGHT OF WAY		
		RT	RIGHT		
		RV	RELIEF VALVE		
		RW	RIGHT OF WAY		
		S	SOUTH		
		SCH	SCHEDULE		

**DETAIL AND SECTION DESIGNATION**



**GENERAL NOTES**

- THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN ON THESE DRAWINGS AND TO OBTAIN ACCEPTANCE BY THE PROJECT OWNER.
- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ADJACENT PROPERTY OWNERS. DRIVEWAYS AND ACCESSES SHALL REMAIN ACCESSIBLE AT ALL TIMES.
- EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS ON THESE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. NO SILTATION OF EXISTING DRAINAGE FACILITIES AND WETLANDS SHALL BE ALLOWED. CARE SHALL BE TAKEN TO PREVENT MIGRATION OF SILTS TO OFF-SITE PROPERTIES.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL "PRE-CONSTRUCTION" STATE OR BETTER.
- ALL CONSTRUCTION MUST COMPLY WITH THE WSDOT STANDARD SPECIFICATION (LATEST EDITION) UNLESS OTHERWISE SUPERSEDED BY TRIBAL STANDARDS.



REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN Y. MAHMOODI
			CHECKED J. WRIGHT
			APPROVED H. LONGFELLOW

**ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY**  
 FILE NAME: PS1598158-PH1-G1  
 JOB No.: 216-1598-158  
 DATE: MAY 2024



05-21-2024

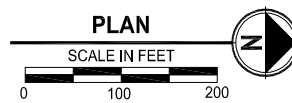
**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT**  
 TULALIP WASHINGTON

**LEGEND & ABBREVIATIONS**

DRAWING NO.  
 02 OF 25  
**G2**

PATH: U:\PSO\Projects\Clients\1598-TulalipTribes\216-1598-158 TulalipBayWaterSystem\98Sves\CADD\DWG\Package 1 - Hermosa-MeteraPRVs PLOTTED BY: betzyloph DATE: Tuesday, May 21, 2024 3:48:29 PM LAYOUT: KM1



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			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

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FILE NAME  
PS1598158-PH1-KEY MAP

JOB No.  
216-1598-158

DATE  
MAY 2024



05-21-2024

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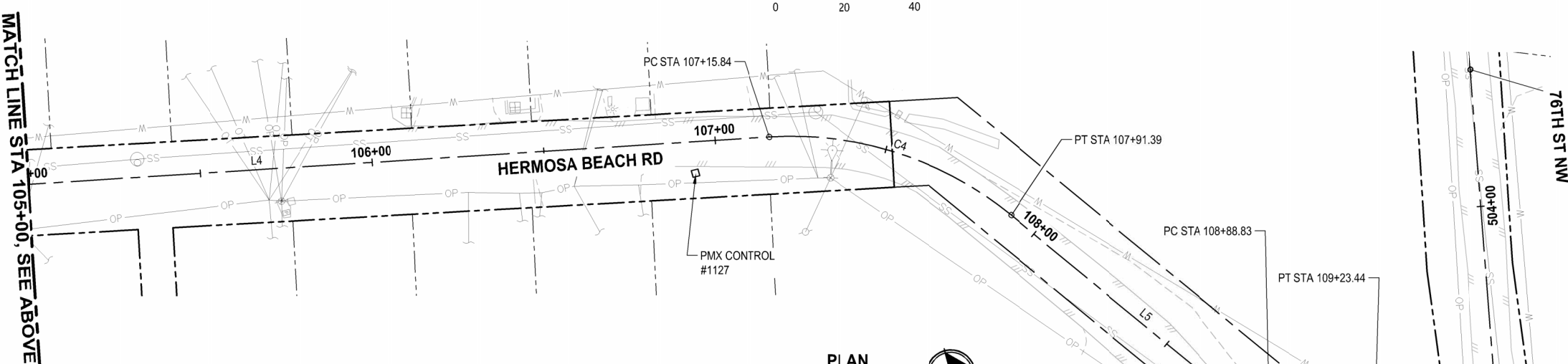
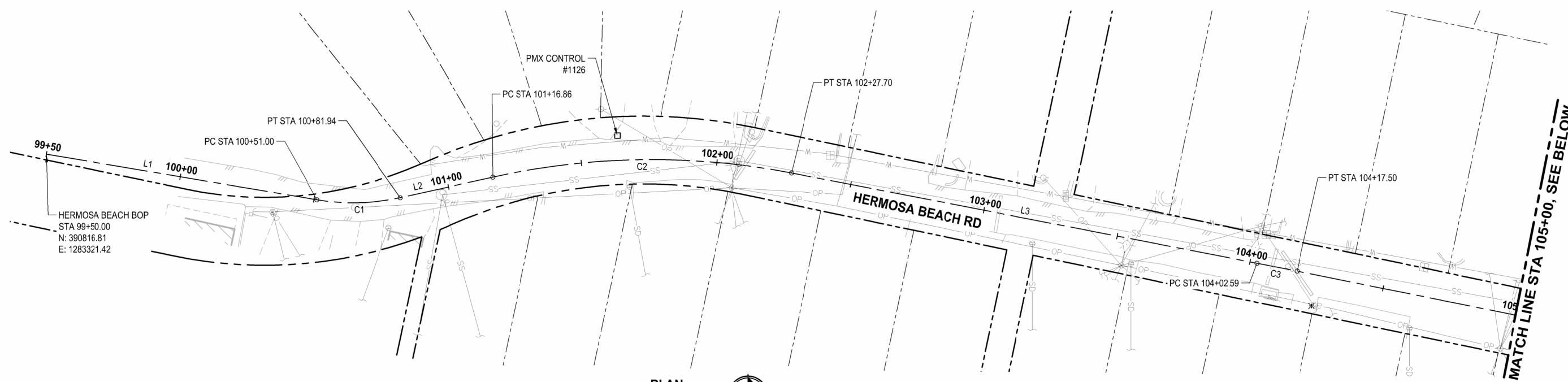
PROJECT NAME  
**THE TULALIP TRIBES  
TULALIP BAY WATER SYSTEM  
IMPROVEMENTS - PHASE 1 PROJECT**  
TULALIP WASHINGTON

**KEY MAP  
WATER METER AND PRV  
HERMOSA BEACH ROAD AND  
FRYBERG ESTATES**

DRAWING NO.  
03 OF 25

**KM1**

PATH: U:\PSD\Projects\Clients\1998-Tulalip\1998-1598-158-TulalipBayWaterSystem\985\Drawings\DWG\Package 1 - Hermosa-MeterPits.dwg  
 PLOTTED BY: batzylph DATE: Tuesday, May 21, 2024 3:38:59 PM  
 LAYOUT: HC1



PARAMETRIX CONTROL TABLE				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1125	391685.84	1283573.15	19.49	SET HUB & TACK
1126	391027.30	1283314.57	41.15	SET HUB & TACK
1127	391546.58	1283428.05	38.57	SET HUB & TACK

LINE TABLE			
LINE ID	LENGTH	BEARING	ALIGNMENT NAME
L1	101.00'	N9° 36' 08.84"E	HERMOSA
L2	34.93'	N12° 33' 17.32"W	HERMOSA
L3	174.89'	N10° 57' 55.91"E	HERMOSA
L4	298.34'	N11° 23' 33.66"E	HERMOSA
L5	97.44'	N54° 40' 41.37"E	HERMOSA

CURVE TABLE				
CURVE ID	LENGTH	RADIUS	DELTA	ALIGNMENT NAME
C1	30.94'	80.00'	22°09'26"	HERMOSA
C2	110.84'	270.00'	23°31'13"	HERMOSA
C3	14.91'	2000.00'	0°25'38"	HERMOSA
C4	75.55'	100.00'	43°17'08"	HERMOSA
C5	34.61'	100.00'	19°49'39"	HERMOSA

**HORIZONTAL DATUM (WSRN):**  
 HORIZONTAL DATUM FOR THIS SURVEY IS NAVD 83(11), WASHINGTON STATE PLANE NORTH ZONE COORDINATE SYSTEM, U.S. SURVEY FEET, BASED ON THE WASHINGTON STATE REFERENCE NETWORK (WSRN) WITH VERIFICATION TIES TO THE FOLLOWING MONUMENTS PUBLISHED BY WSDOT

**POINT DESIGNATION: QUILCEDA**  
 NORTHING: 388056.032  
 EASTING: 1307665.300

**VERTICAL DATUM (WSRN):**  
 VERTICAL DATUM FOR THIS SURVEY IS NAVD 88 BASED ON THE WASHINGTON STATE REFERENCE NETWORK (WSRN) WITH VERIFICATION TIES TO THE FOLLOWING MONUMENT PUBLISHED BY WSDOT  
 POINT DESIGNATION: QUILCEDA  
 ELEVATION: 19.987

**SURVEY NOTES:**

- THIS MAP CORRECTLY REPRESENTS CONDITIONS AND FEATURES EXISTING AT THE TIME OF THIS SURVEY IN OCTOBER, 2023.
- CONVENTIONAL AND GPS SURVEY EQUIPMENT WAS USED IN THE PERFORMANCE OF THIS SURVEY. ALL EQUIPMENT IS MAINTAINED IN CONFORMANCE WITH CURRENT STATE STATUTE.
- THIS SURVEY WAS PREPARED BY FIELD TRAVERSE AS PER WAC 332-130-090, PART C. RELATIVE ACCURACY EXCEEDS 1 FOOT IN TEN THOUSAND.
- ALL SURFACE FEATURES AND INVERT STRUCTURE ELEVATION SHOWN HEREON WERE FIELD LOCATED AND MEASURED BY PARAMETRIX FOR THIS SURVEY. UNDERGROUND UTILITY LINES ARE BASED UPON A COMBINATION OF SURFACE FEATURE MEASUREMENTS AND ON-SITE UNDERGROUND UTILITY MARKINGS PERFORMED BY OTHERS.
- THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.
- RIGHT OF WAY INFORMATION SHOWN HEREON IS BASED ON PUBLIC INFORMATION PROVIDED BY THE SNOHOMISH COUNTY ASSESSOR'S OFFICE. BOUNDARY LINES SHOWN HEREON ARE BASED UPON SNOHOMISH COUNTY GIS AND ARE FOR REPRESENTATION PURPOSES ONLY AND SHOULD NOT BE USED FOR DESIGN ACTIVITIES THAT WILL RELY ON AN ACCURATE REPRESENTATION OF BOUNDARY INFORMATION.
- THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT, WHICH MAY REVEAL RESTRICTIONS OR EASEMENTS OF RECORD. ACCORDINGLY, NONE ARE SHOWN HEREON.
- ELEVATIONS AND CONTOUR ACCURACY MEETS NATIONAL MAPPING STANDARDS
- INTENDED PURPOSE OF SURVEY IS FOR DESIGN OF NEW WATER MAIN INSTALLATION.
- CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS
- REFERENCE SURVEYS INCLUDE:  
 (R1) 981205001 - R.O.S. BY DAVID R. DOWNING  
 (R2) 200104185009 - R.O.S. BY WILLIAM H. ROBERTS  
 (R3) 200111055003 - R.O.S. BY CLARK M. LEEHAN  
 (R4) 200510035153 - R.O.S. BY DAVID R. DOWNING  
 (R5) 200601185070 - R.O.S. BY DAWN A. BELL  
 (R6) 201210165002 - R.O.S. BY WILLIAM J. LLOYD  
 (R7) 201807305008 - R.O.S. BY THOMAS E. BARRY  
 (R8) 201903225002 - R.O.S. BY PETER K. BRANDS
- (P1) REPLAT OF ASSESSOR'S PLAT OF HERMOSA POINT SUMMER HOME SITES, ACCORDING TO PLAT THEREOF RECORDED IN VOLUME 17 OF PLATS, PAGES 88 AND 89, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.  
 (P2) THE ASSESSOR'S PLAT OF HERMOSA POINT DIVISION NO. 2, RECORDED IN VOLUME 21 OF PLATS, PAGES 24 AND 25, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.  
 (P3) THE ASSESSOR'S PLAT OF HERMOSA POINT DIVISION NO. 3, RECORDED IN VOLUME 27 OF PLATS, PAGE 60, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.  
 (P4) THE UNRECORDED PLAT OF TULALIP BAY HOMESITE ADDITION.  
 (P5) THE PLAT OF TULALIP HEIGHTS, RECORDED IN VOLUME 10 OF PLATS, PAGE 112, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			Y. MAHMOODI
			J. WRIGHT
			H. LONGFELLOW

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 FILE NAME: PS1598158-PH1-HC1-2  
 JOB NO.: 216-1598-158  
 DATE: MAY 2024



05-17-2024

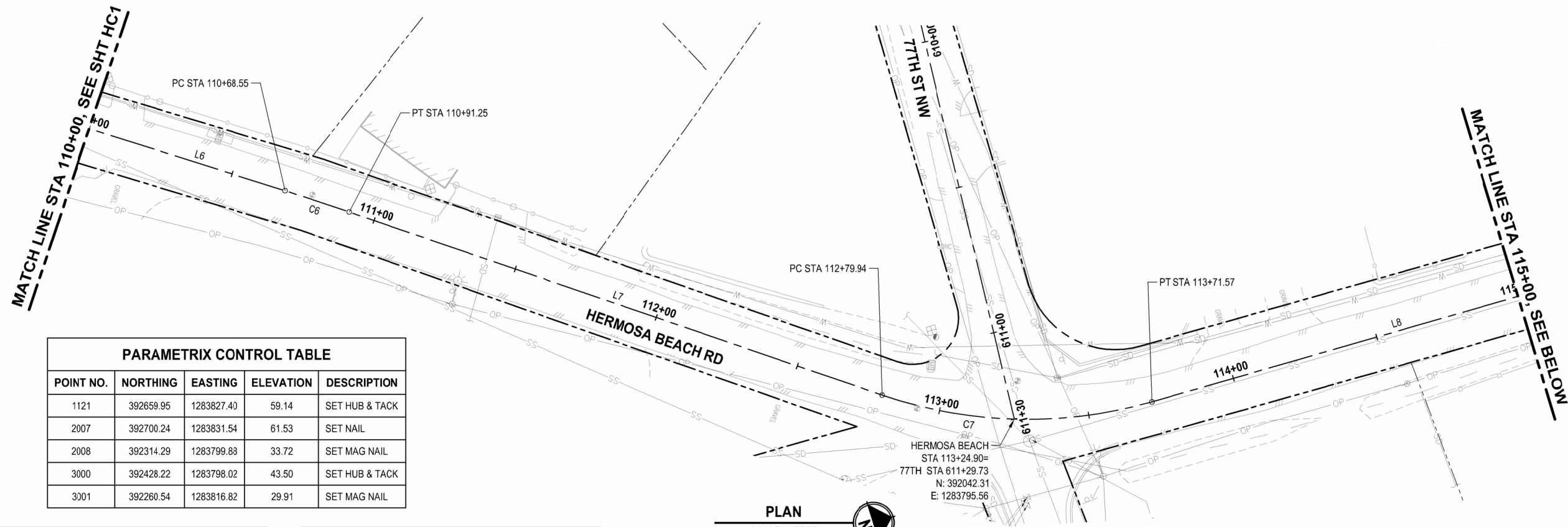
**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT  
 TULALIP WASHINGTON**

**HORIZONTAL CONTROL PLAN**

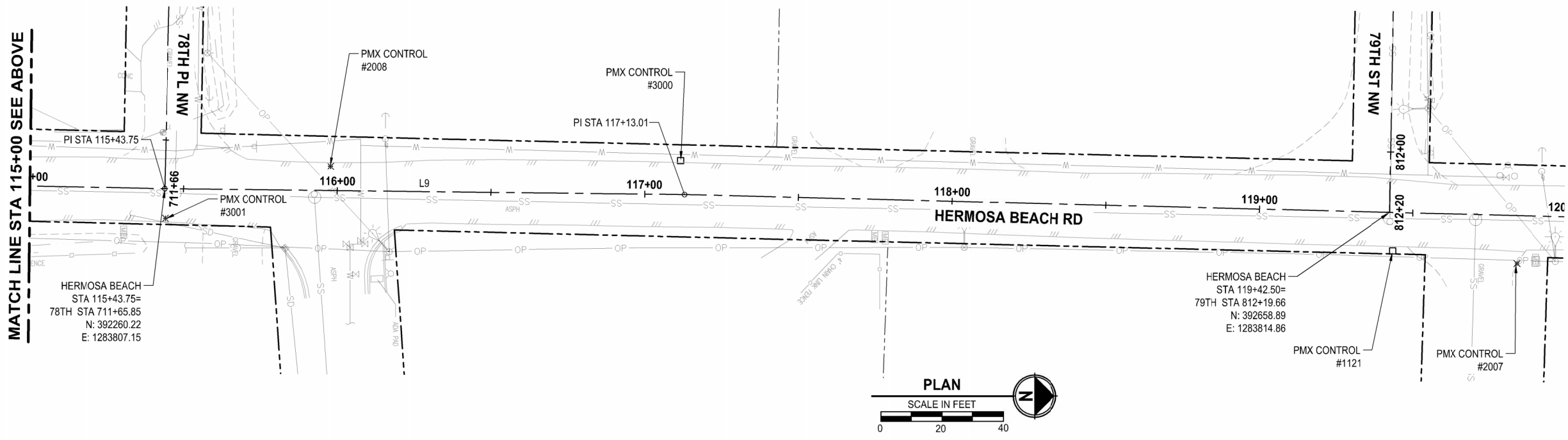
DRAWING NO.  
 04 OF 25  
**HC1**

PATH: U:\PSD\Projects\Clients\1598-Tulalip Tribes\1598-1598-158-TulalipBayWaterSystem\985\Drawings\CAADD\DWG\Package 1 - Hermosa-MeterPRVs  
 LAYOUT: HC2  
 PLOTTED BY: betzlyph DATE: Tuesday, May 21, 2024 3:38:03 PM



LINE TABLE			
LINE ID	LENGTH	BEARING	ALIGNMENT NAME
L6	145.12'	N34° 51' 02.57"E	HERMOSA
L7	188.69'	N36° 09' 04.31"E	HERMOSA
L8	172.18'	N1° 09' 05.43"E	HERMOSA
L9	169.27'	N0° 39' 05.15"E	HERMOSA

CURVE TABLE				
CURVE ID	LENGTH	RADIUS	DELTA	ALIGNMENT NAME
C6	22.70'	1000.00'	1°18'02"	HERMOSA
C7	91.63'	150.00'	34°59'59"	HERMOSA



REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			Y. MAHMOODI
			J. WRIGHT
			H. LONGFELLOW

**ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY**  
 FILE NAME: PS1598158-PH1-HC1-2  
 JOB No.: 216-1598-158  
 DATE: MAY 2024



05-21-2024

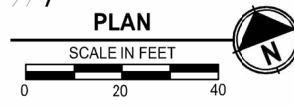
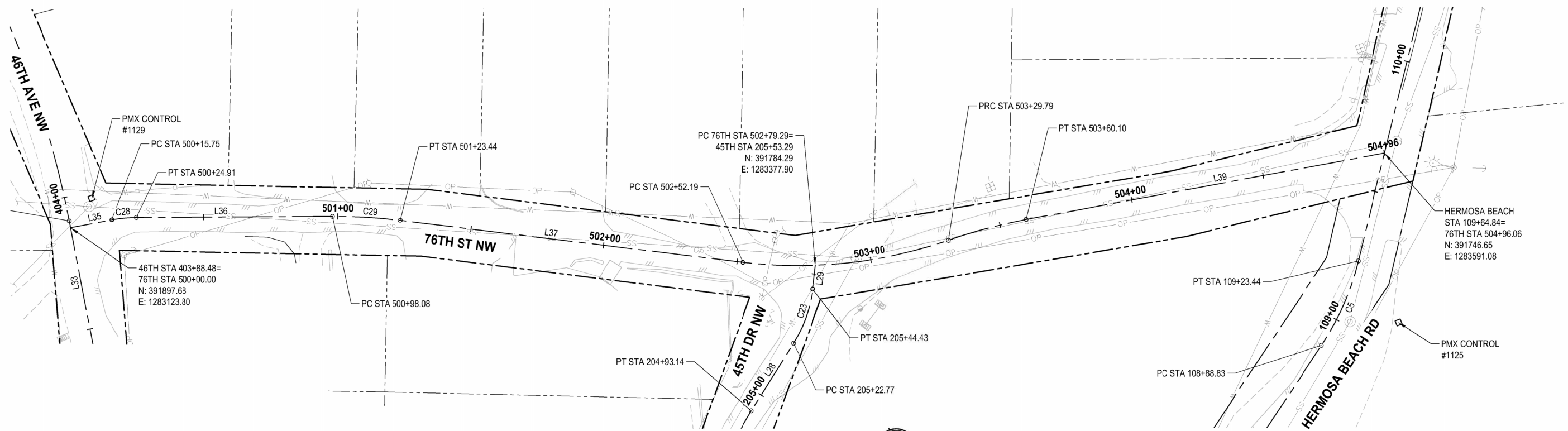
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PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT**  
 TULALIP WASHINGTON

**HORIZONTAL CONTROL PLAN**

DRAWING NO.  
 05 OF 25  
**HC2**

PATH: U:\PSO\Projects\Clients\1598-Tulalip Tribes\216-1598-158-Tulalip Bay Water System\985\Drawings\CADD\DWG\Package 1 - Hermosa-MeterPRVs  
 LAYOUT: HC3  
 PLOTTED BY: betzypb DATE: Tuesday, May 21, 2024 3:40:01 PM



PARAMETRIX CONTROL TABLE				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1125	391665.84	1283573.15	19.49	SET HUB & TACK
1129	391905.20	1283135.02	88.47	SET HUB & TACK

LINE TABLE			
LINE ID	LENGTH	BEARING	ALIGNMENT NAME
L35	15.75'	S79° 38' 10.15"E	76TH
L36	73.17'	S69° 07' 56.03"E	76TH
L37	123.76'	S61° 52' 10.92"E	76TH
L39	135.95'	S79° 20' 30.00"E	76TH

CURVE TABLE				
CURVE ID	LENGTH	RADIUS	DELTA	ALIGNMENT NAME
C28	9.17'	50.00'	10°30'14"	76TH
C29	25.35'	200.00'	7°15'45"	76TH

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			Y. MAHMOODI
			J. WRIGHT
			H. LONGFELLOW

ONE INCH AT FULL SCALE.  
 IF NOT, SCALE ACCORDINGLY  
 FILE NAME  
 PS1598158-PH1-HC3  
 JOB No.  
 216-1598-158  
 DATE  
 MAY 2024



05-21-2024

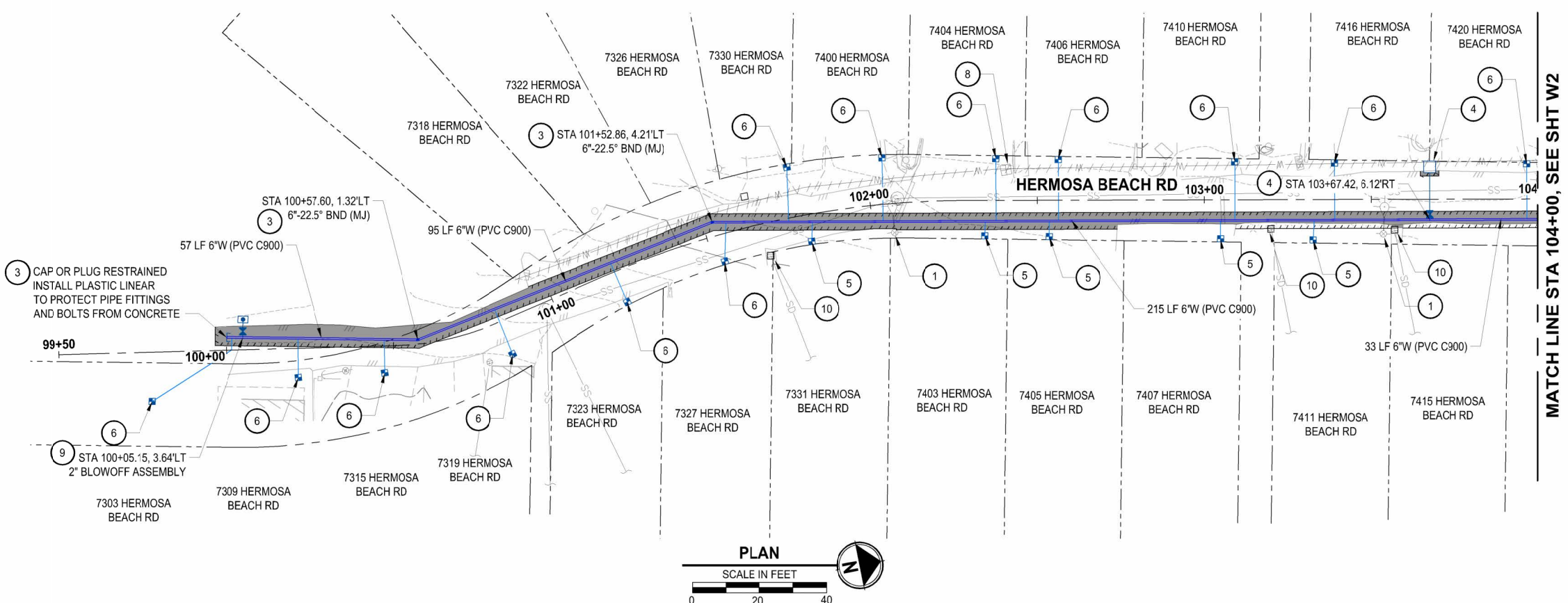
**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT**  
 TULALIP WASHINGTON

**HORIZONTAL CONTROL PLAN**

DRAWING NO.  
 06 OF 25  
**HC3**

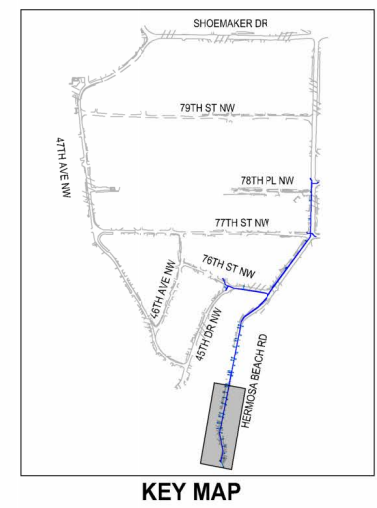
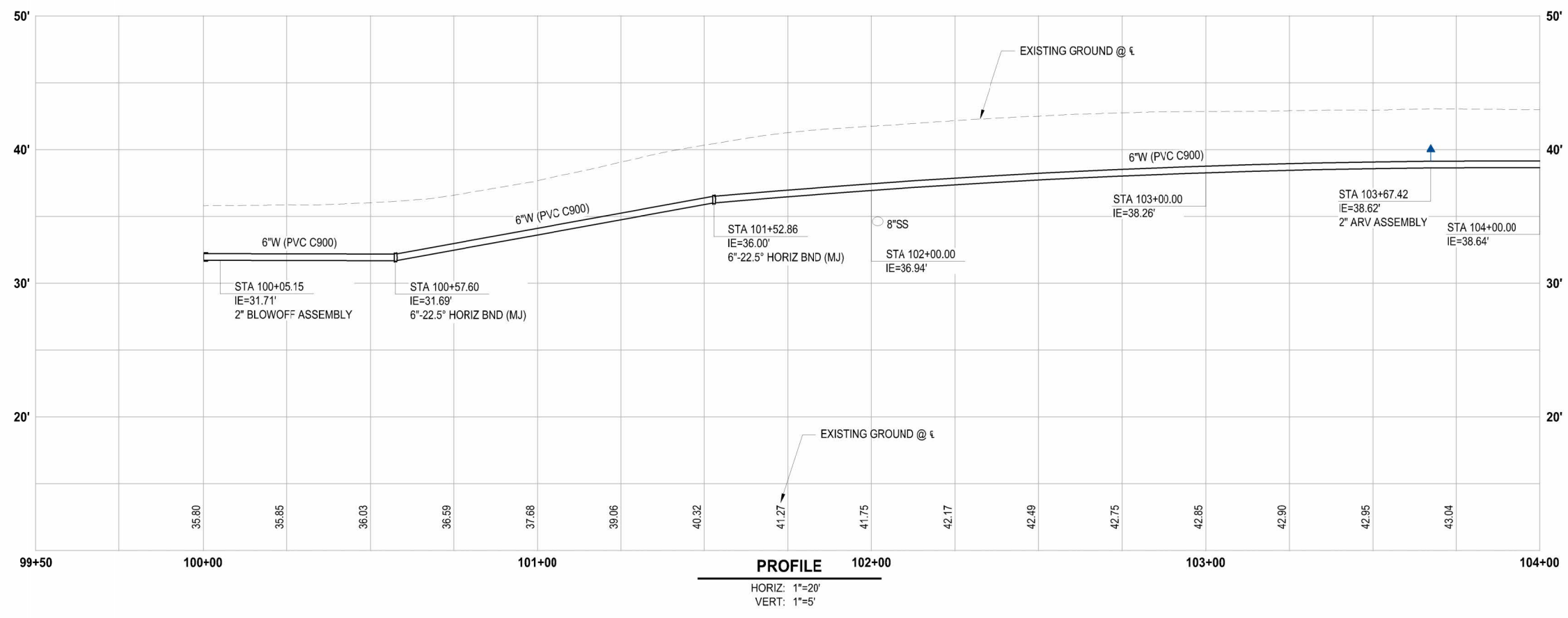
LAYOUT: W1 PATH: U:\PSD\Projects\Clients\1598-Tulalip Tribes\1598-158-Tulalip Bay Water System\99500\CAADD\DWG\Porcage\_1 - Hermosa-MetersPVS PLOTTED BY: batzygch DATE: Tuesday, May 21, 2024, 3:51:34 PM



- WATER GENERAL NOTES:**
1. MAINTAIN A MINIMUM 3.5' AND MAXIMUM 5.0' COVER OVER WATER MAIN (TYP) OR AS SHOWN IN THE PROFILE.
  2. THE EXISTING WATER MAIN IS SHOWN BASED ON THE TULALIP GIS, AND SHALL BE FIELD VERIFIED.
- WATER KEY NOTES:**
1. CONTRACTOR TO COORDINATE WITH SNOHOMISH COUNTY PUD IF NECESSARY FOR POLE HOLD.
  2. INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL 3, SHEET DT2.
  3. THRUST BLOCKING PER DETAIL 8, SHEET DT3.
  4. INSTALL 2-INCH COMBINATION AIR RELEASE / VACUUM VALVE ASSEMBLY PER DETAIL 10, SHEET DT3.
  5. INSTALL 1" WATER METER AND PRV ASSEMBLY PER DETAIL 2, SHEET DT1 - SHORT SIDE.
  6. INSTALL 1" WATER METER AND PRV ASSEMBLY PER DETAIL 2, SHEET DT1 - LONG SIDE.
  7. CONTRACTOR SHALL EXPOSE EXISTING PIPE AT CONNECTION AND VERIFY DIMENSION AND FITTING NEEDS PRIOR TO ORDERING PARTS.
  8. REMOVE EXISTING METER.
  9. INSTALL 2" BLOWOFF ASSEMBLY PER DETAIL 5, SHEET DT2.
  10. INLET PROTECTION

- CONSTRUCTION NOTES:**
1. CONTRACTOR SHALL MECHANICALLY RESTRAIN WATER MAIN FITTINGS AND PIPE JOINT USING ROMAC ROMAGRIP OR APPROVED EQUAL AS SHOWN ON SHEET DT3. ALL OTHER PIPE JOINTS SHALL NOT RECEIVING MECHANICAL RESTRAINT SHALL BE RESTRAINED WITH FIELD LOK GASKETS.
  2. SEE TYPICAL TRENCH SECTIONS DETAIL ON SHEET DT1 FOR PAVEMENT RESTORATION.
  3. PRESERVE AND PROTECT EXISTING ASPHALT.
  4. NEW METER LOCATIONS ARE APPROXIMATE AND THE CONTRACTOR SHALL COORDINATE WITH THE TRIBES AND FIELD VERIFY THE NEW LOCATIONS.
  5. ALL EXISTING METERS FOUND IN THE FIELD, THAT HAVE NOT BEEN LABELED OR IDENTIFIED IN THE BASEMAP, AND WHERE TO REPLACE WITH A NEW METER, WILL BE REMOVED PER WATER KEY NOTES 8.

- TESC / RESTORATION LEGEND**
- SEEDING, FERTILIZATION, AND MULCHING
  - ASPHALT RESTORATION
  - CONCRETE RESTORATION
  - GRAVEL RESTORATION
  - CAP AND ABANDON EXISTING WATER MAIN
  - SAWCUT
  - STORM DRAIN INLET PROTECTION PER WSDOT STD PLAN I-40.20-00



REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			Y. MAHMOODI
			J. WRIGHT
			H. LONGFELLOW

**ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY.**

FILE NAME: PS1593158-PH1-W01-05  
 JOB TITLE: 216-1598-158  
 DATE: MAY 2024



05-21-2024

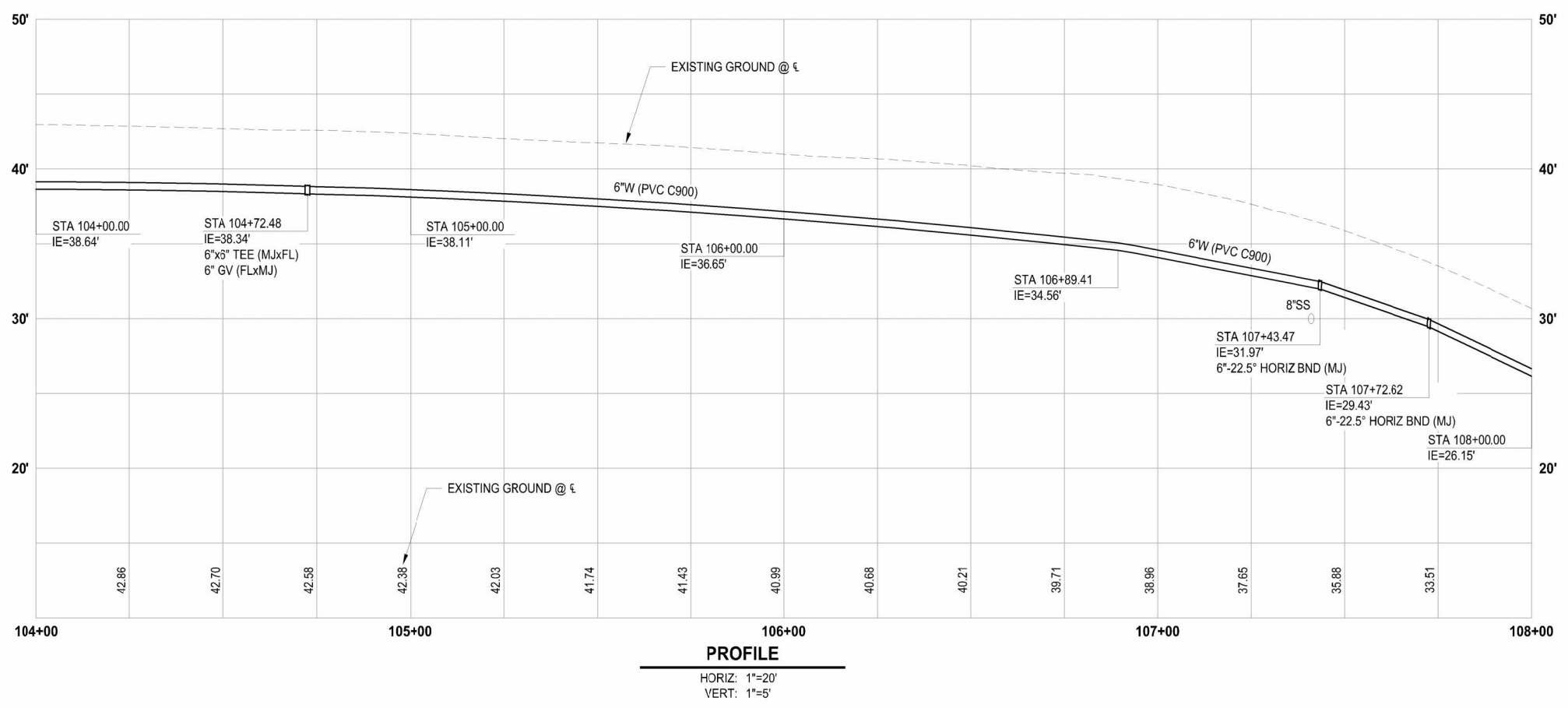
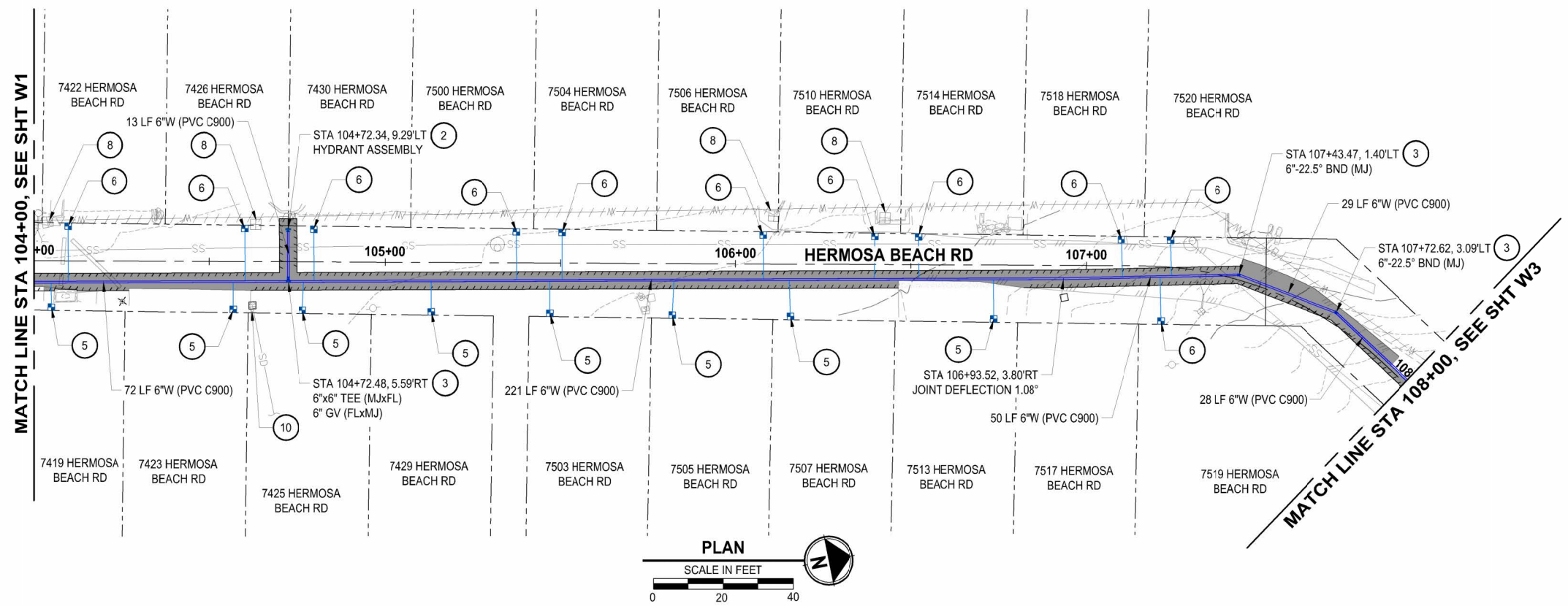
**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT  
 TULALIP WASHINGTON**

**WATER PLAN & PROFILE  
 HERMOSA BEACH RD  
 STA 99+50 - STA 104+00**

DRAWING NO.  
 07 OF 25  
**W1**

LAYOUT: W2    PATH: U:\PCSD\Projects\Clients\1598-Tulalip\Tribes\158-TulalipBayWaterSystem\995\CA\DWG\W2\Package\_1 - Hermosa-MetersPRVs    PLOTTED BY: betzyph    DATE: Tuesday, May 21, 2024, 3:56:12 PM



**WATER GENERAL NOTES:**

1. MAINTAIN A MINIMUM 3.5' AND MAXIMUM 5.0' COVER OVER WATER MAIN (TYP) OR AS SHOWN IN THE PROFILE.
2. THE EXISTING WATER MAIN IS SHOWN BASED ON THE TULALIP GIS, AND SHALL BE FIELD VERIFIED.

**WATER KEY NOTES:**

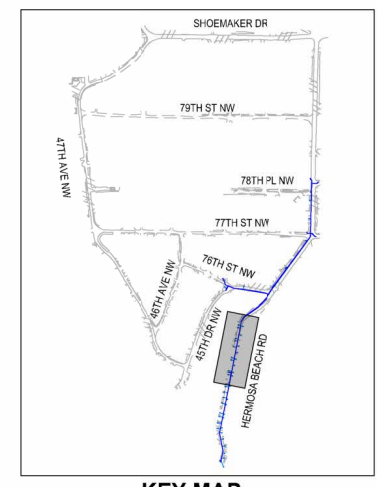
1. CONTRACTOR TO COORDINATE WITH SNOHOMISH COUNTY PUD IF NECESSARY FOR POLE HOLD.
2. INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL 3, SHEET DT2.
3. THRUST BLOCKING PER DETAIL 8, SHEET DT3.
4. INSTALL 2-INCH COMBINATION AIR RELEASE / VACUUM VALVE ASSEMBLY PER DETAIL 10, SHEET DT3.
5. INSTALL 1" WATER METER AND PRV ASSEMBLY PER DETAIL 2, SHEET DT1 - SHORT SIDE.
6. INSTALL 1" WATER METER AND PRV ASSEMBLY PER DETAIL 2, SHEET DT1 - LONG SIDE.
7. CONTRACTOR SHALL EXPOSE EXISTING PIPE AT CONNECTION AND VERIFY DIMENSION AND FITTING NEEDS PRIOR TO ORDERING PARTS.
8. REMOVE EXISTING METER.
9. INSTALL 2" BLOWOFF ASSEMBLY PER DETAIL 5, SHEET DT2.
10. INLET PROTECTION

**CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL MECHANICALLY RESTRAIN WATER MAIN FITTINGS AND PIPE JOINT USING ROMAC ROMAGRIP OR APPROVED EQUAL AS SHOWN ON SHEET DT3. ALL OTHER PIPE JOINTS SHALL NOT RECEIVING MECHANICAL RESTRAINT SHALL BE RESTRAINED WITH FIELD LOK GASKETS.
2. SEE TYPICAL TRENCH SECTIONS DETAIL ON SHEET DT1 FOR PAVEMENT RESTORATION.
3. PRESERVE AND PROTECT EXISTING ASPHALT.
4. NEW METER LOCATIONS ARE APPROXIMATE AND THE CONTRACTOR SHALL COORDINATE WITH THE TRIBES AND FIELD VERIFY THE NEW LOCATIONS.
5. ALL EXISTING METERS FOUND IN THE FIELD, THAT HAVE NOT BEEN LABELED OR IDENTIFIED IN THE BASEMAP, AND WHERE TO REPLACE WITH A NEW METER, WILL BE REMOVED PER WATER KEY NOTES 8.

**TESC / RESTORATION LEGEND**

- SEEDING, FERTILIZATION, AND MULCHING
- ASPHALT RESTORATION
- CONCRETE RESTORATION
- GRAVEL RESTORATION
- CAP AND ABANDON EXISTING WATER MAIN
- SAWCUT
- STORM DRAIN INLET PROTECTION PER WSDOT STD PLAN I-40.20-00



REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

**ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY**  
 FILE NAME: PS1593158-PH1-W01-05  
 JOB NO: 216-1598-158  
 DATE: MAY 2024



05-21-2024

**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

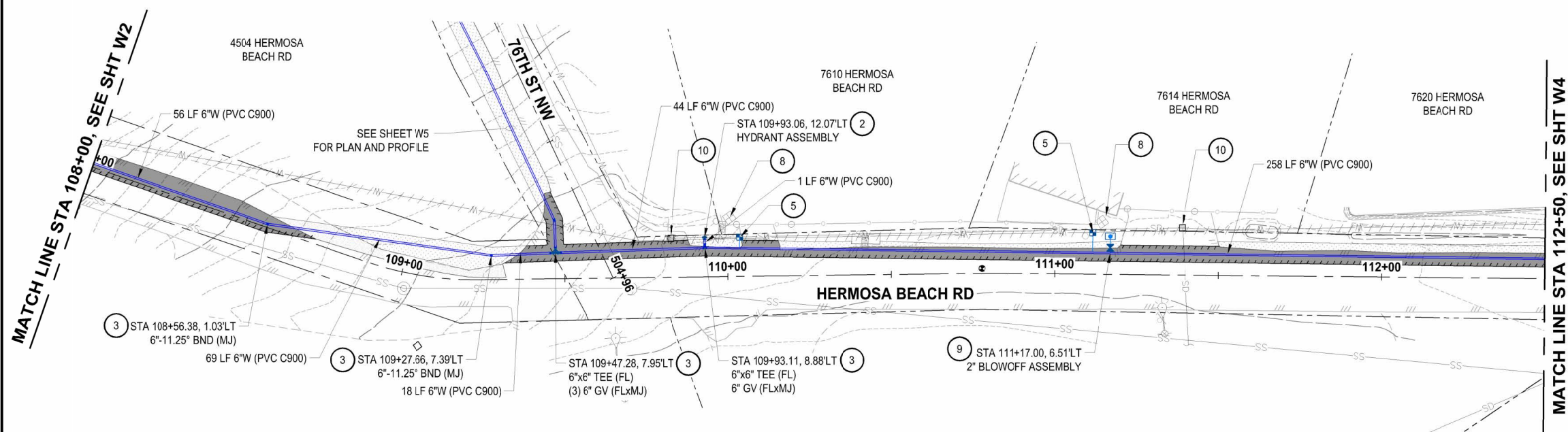
PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT**  
 TULALIP WASHINGTON

**WATER PLAN & PROFILE  
 HERMOSA BEACH RD  
 STA 104+00 - STA 108+00**

DRAWING NO.  
 08 OF 25  
**W2**



LAYOUT: W3 PATH: U:\PCSD\Projects\Clients\1598-Tulalip Tribes\1598-Tulalip Bay Water System\995\CA\DWG\Package 1 - Hermosa-MetersPRVs PLOTTED BY: betzyph DATE: Tuesday, May 21, 2024 3:57:16 PM



**WATER GENERAL NOTES:**

1. MAINTAIN A MINIMUM 3.5' AND MAXIMUM 5.0' COVER OVER WATER MAIN (TYP) OR AS SHOWN IN THE PROFILE.
2. THE EXISTING WATER MAIN IS SHOWN BASED ON THE TULALIP GIS, AND SHALL BE FIELD VERIFIED.

**WATER KEY NOTES:**

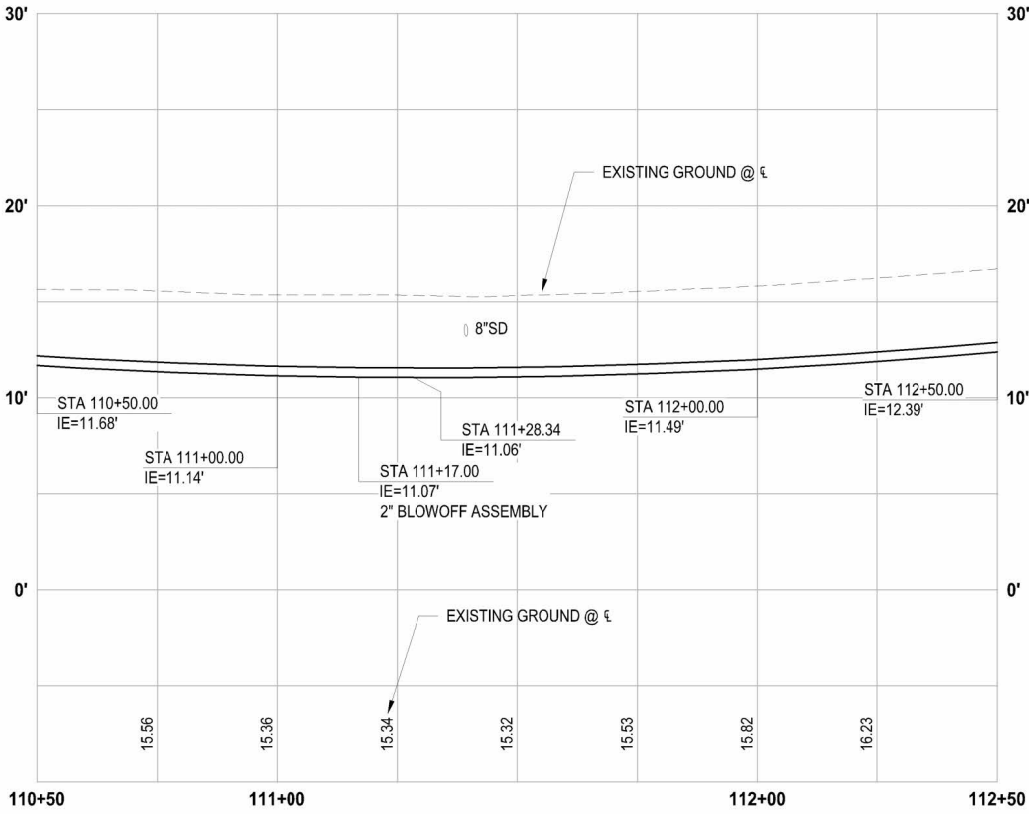
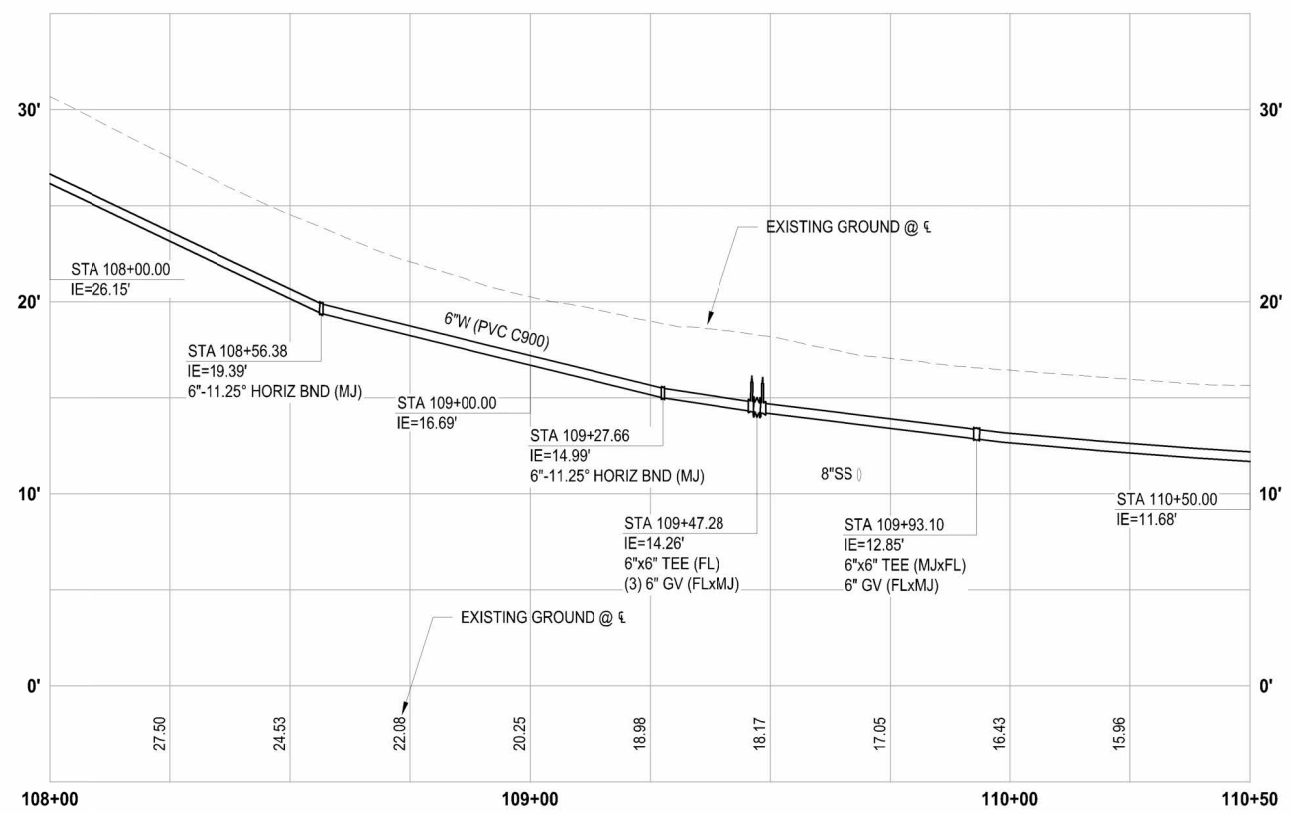
- 1 CONTRACTOR TO COORDINATE WITH SNOHOMISH COUNTY PUD IF NECESSARY FOR POLE HOLD.
- 2 INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL 3, SHEET DT2.
- 3 THRUST BLOCKING PER DETAIL 8, SHEET DT3.
- 4 INSTALL 2-INCH COMBINATION AIR RELEASE / VACUUM VALVE ASSEMBLY PER DETAIL 10, SHEET DT3.
- 5 INSTALL 1" WATER METER AND PRV ASSEMBLY PER DETAIL 2, SHEET DT1 - SHORT SIDE.
- 6 INSTALL 1" WATER METER AND PRV ASSEMBLY PER DETAIL 2, SHEET DT1 - LONG SIDE.
- 7 CONTRACTOR SHALL EXPOSE EXISTING PIPE AT CONNECTION AND VERIFY DIMENSION AND FITTING NEEDS PRIOR TO ORDERING PARTS.
- 8 REMOVE EXISTING METER.
- 9 INSTALL 2" BLOWOFF ASSEMBLY PER DETAIL 5, SHEET DT2.
- 10 INLET PROTECTION

**CONSTRUCTION NOTES:**

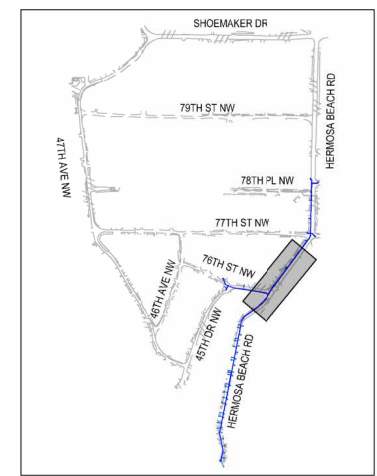
1. CONTRACTOR SHALL MECHANICALLY RESTRAIN WATER MAIN FITTINGS AND PIPE JOINT USING ROMAC ROMAGRIP OR APPROVED EQUAL AS SHOWN ON SHEET DT3. ALL OTHER PIPE JOINTS SHALL NOT RECEIVING MECHANICAL RESTRAINT SHALL BE RESTRAINED WITH FIELD LOK GASKETS.
2. SEE TYPICAL TRENCH SECTIONS DETAIL ON SHEET DT1 FOR PAVEMENT RESTORATION.
3. PRESERVE AND PROTECT EXISTING ASPHALT.
4. NEW METER LOCATIONS ARE APPROXIMATE AND THE CONTRACTOR SHALL COORDINATE WITH THE TRIBES AND FIELD VERIFY THE NEW LOCATIONS.
5. ALL EXISTING METERS FOUND IN THE FIELD, THAT HAVE NOT BEEN LABELED OR IDENTIFIED IN THE BASEMAP, AND WHERE TO REPLACE WITH A NEW METER, WILL BE REMOVED PER WATER KEY NOTES 8.

**TESC / RESTORATION LEGEND**

- SEEDING, FERTILIZATION, AND MULCHING
- ASPHALT RESTORATION
- CONCRETE RESTORATION
- GRAVEL RESTORATION
- CAP AND ABANDON EXISTING WATER MAIN
- SAWCUT
- STORM DRAIN INLET PROTECTION PER WSDOT STD PLAN I-40.20-00



**PROFILE**  
 HORIZ: 1"=20'  
 VERT: 1"=10'



REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

**ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY**  
 FILE NAME: PS1593158-PH1-W01-05  
 JOB NO: 216-1598-158  
 DATE: MAY 2024



05-21-2024

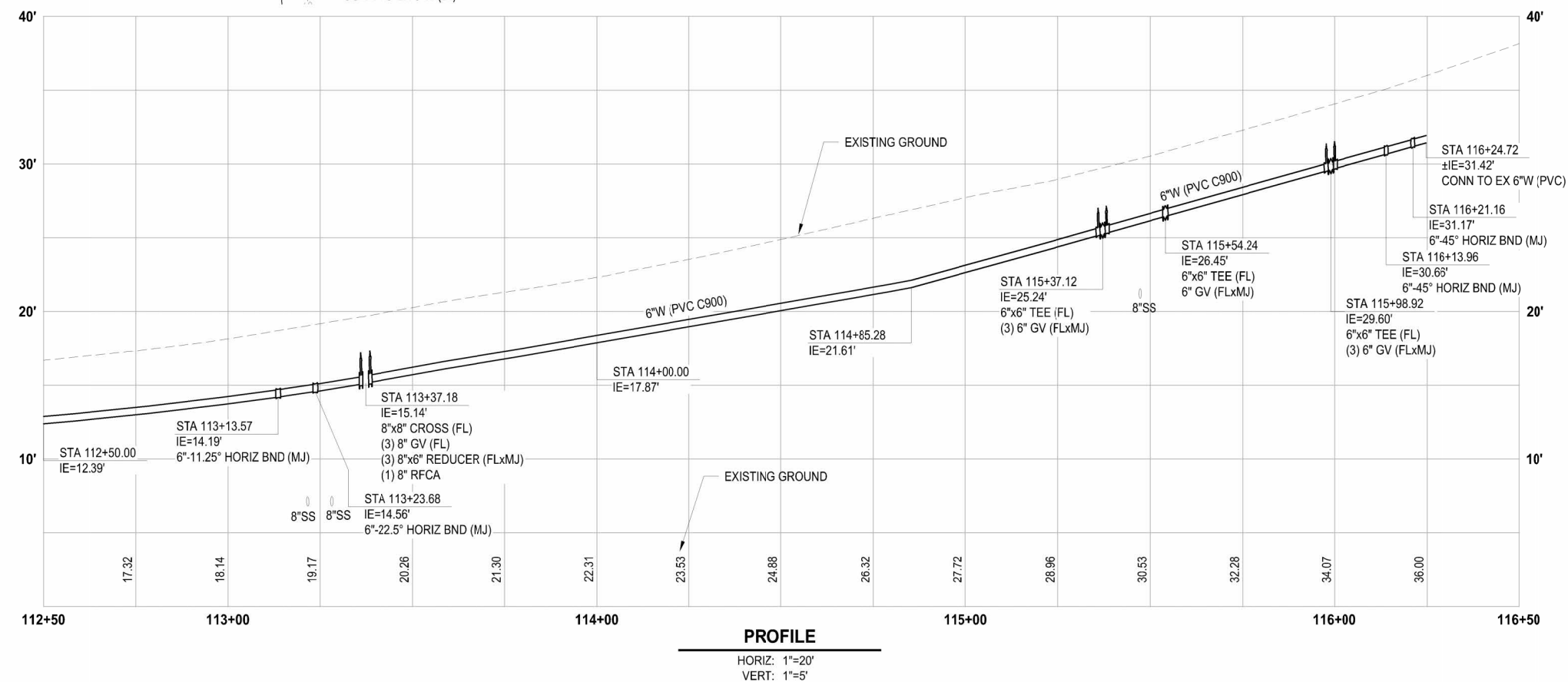
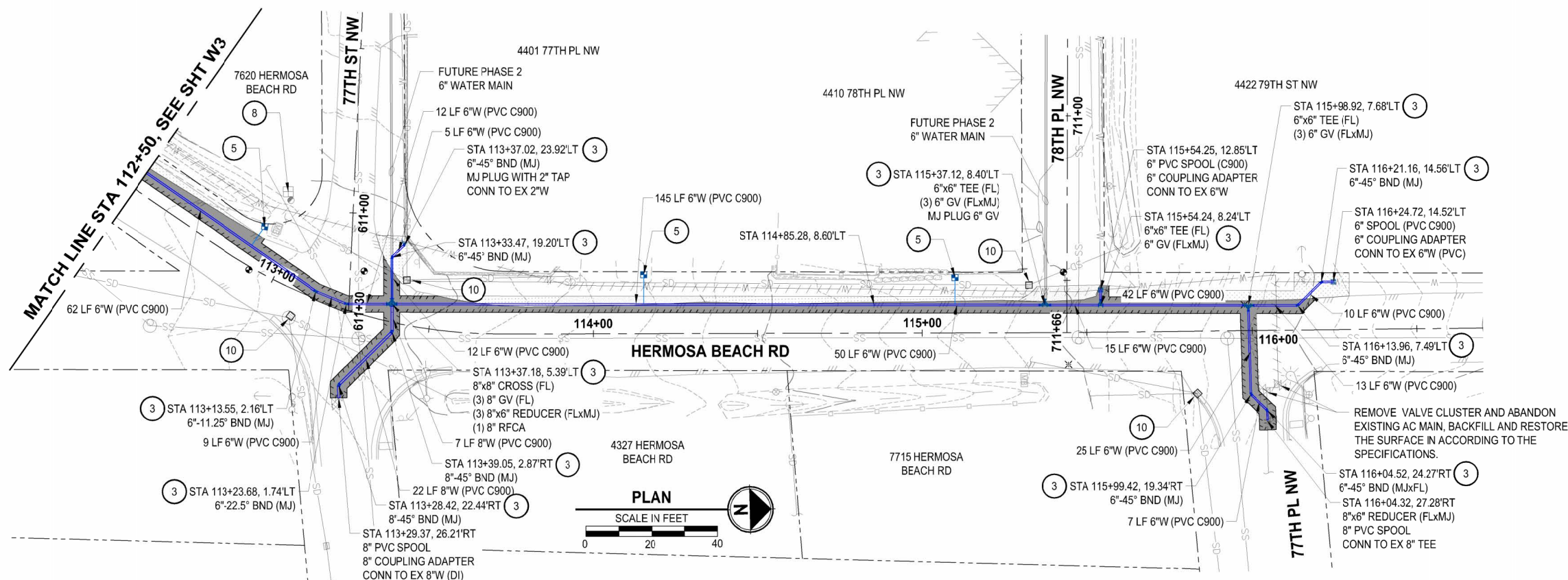
**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME:  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT  
 TULALIP WASHINGTON**

**WATER PLAN & PROFILE  
 HERMOSA BEACH RD  
 STA 108+00 - STA 112+50**

DRAWING NO:  
 09 OF 25  
**W3**

LAYOUT: W4 PATH: U:\PCSD\Projects\Clients\1598-Tulalip\TulalipBayWaterSystem\995\ca\CADD\DWG\Package\_1 - Hermosa-MetersPRVs PLOTTED BY: betzyph DATE: Tuesday, May 21, 2024 4:00:15 PM



**WATER GENERAL NOTES:**

1. MAINTAIN A MINIMUM 3.5' AND MAXIMUM 5.0' COVER OVER WATER MAIN (TYP) OR AS SHOWN IN THE PROFILE.
2. THE EXISTING WATER MAIN IS SHOWN BASED ON THE TULALIP GIS, AND SHALL BE FIELD VERIFIED.

**WATER KEY NOTES:**

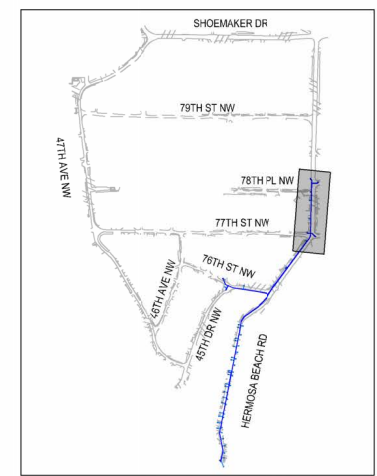
1. CONTRACTOR TO COORDINATE WITH SNOHOMISH COUNTY PUD IF NECESSARY FOR POLE HOLD.
2. INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL 3, SHEET DT2.
3. THRUST BLOCKING PER DETAIL 8, SHEET DT3.
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7. CONTRACTOR SHALL EXPOSE EXISTING PIPE AT CONNECTION AND VERIFY DIMENSION AND FITTING NEEDS PRIOR TO ORDERING PARTS.
8. REMOVE EXISTING METER.
9. INSTALL 2" BLOWOFF ASSEMBLY PER DETAIL 5, SHEET DT2.
10. INLET PROTECTION

**CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL MECHANICALLY RESTRAIN WATER MAIN FITTINGS AND PIPE JOINT USING ROMAC ROMAGRIP OR APPROVED EQUAL AS SHOWN ON SHEET DT3. ALL OTHER PIPE JOINTS SHALL NOT RECEIVING MECHANICAL RESTRAINT SHALL BE RESTRAINED WITH FIELD LOK GASKETS.
2. SEE TYPICAL TRENCH SECTIONS DETAIL ON SHEET DT1 FOR PAVEMENT RESTORATION.
3. PRESERVE AND PROTECT EXISTING ASPHALT.
4. NEW METER LOCATIONS ARE APPROXIMATE AND THE CONTRACTOR SHALL COORDINATE WITH THE TRBES AND FIELD VERIFY THE NEW LOCATIONS.
5. ALL EXISTING METERS FOUND IN THE FIELD, THAT HAVE NOT BEEN LABELED OR IDENTIFIED IN THE BASEMAP, AND WHERE TO REPLACE WITH A NEW METER, WILL BE REMOVED PER WATER KEY NOTES 8.

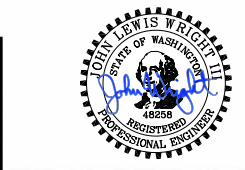
**TESC / RESTORATION LEGEND**

- SEEDING, FERTILIZATION, AND MULCHING
- ASPHALT RESTORATION
- CONCRETE RESTORATION
- GRAVEL RESTORATION
- CAP AND ABANDON EXISTING WATER MAIN
- SAWCUT
- STORM DRAIN INLET PROTECTION PER WSDOT STD PLAN I-40.20-00



REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			Y. MAHMOODI
			J. WRIGHT
			H. LONGFELLOW

**ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY**  
 FILE NAME: PS1593158-PH1-W01-05  
 JOB NO: 216-1598-158  
 DATE: MAY 2024



05-21-2024

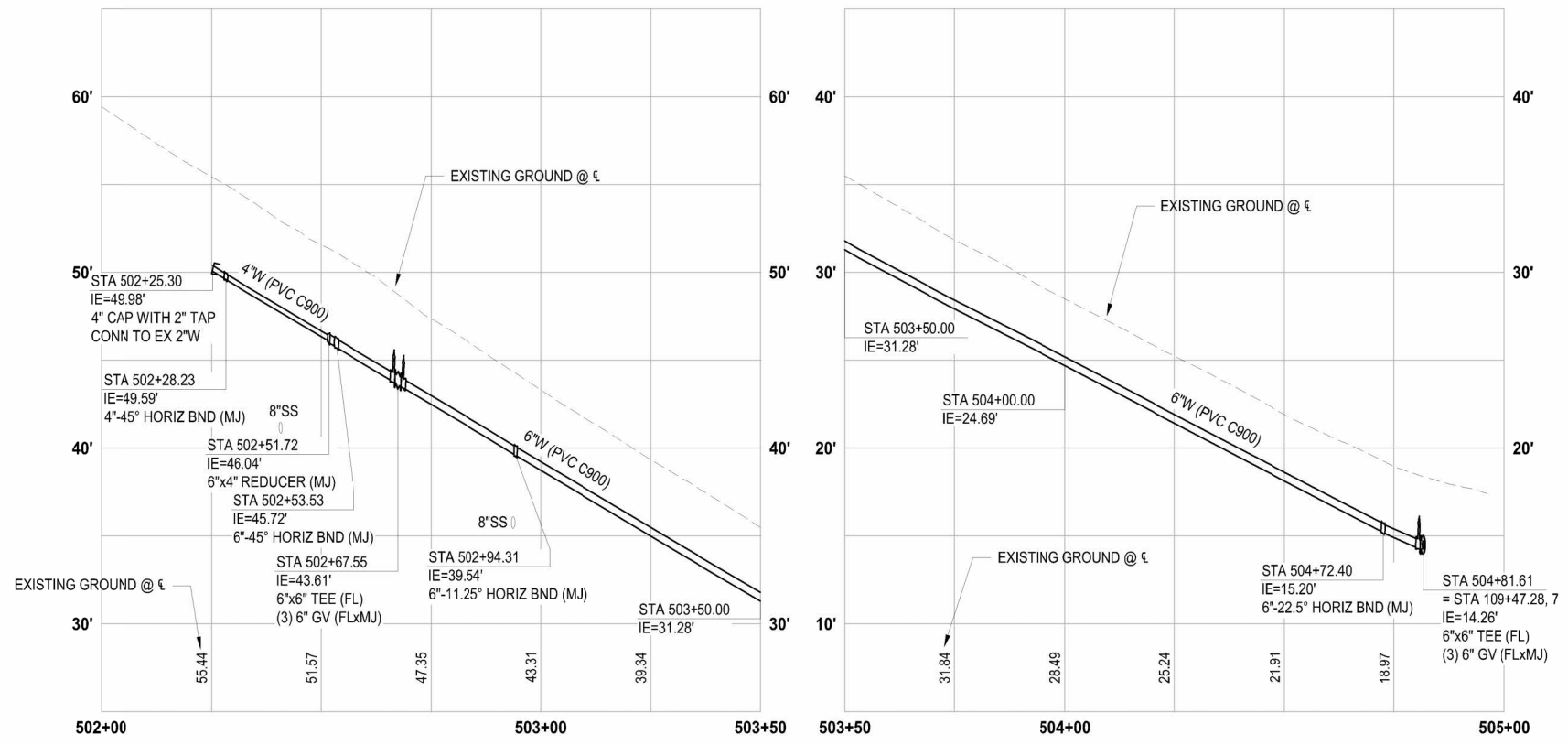
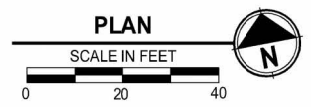
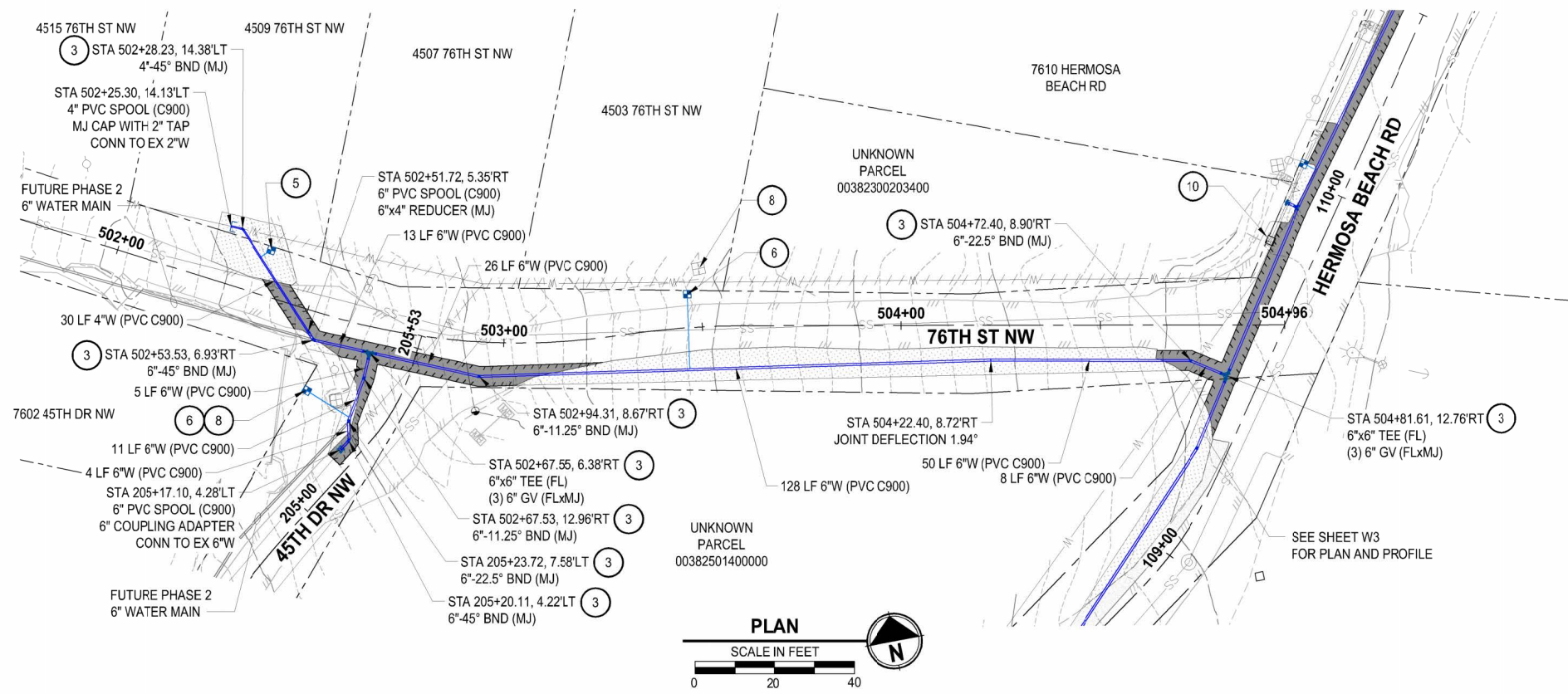
**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME:  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT  
 TULALIP WASHINGTON**

**WATER PLAN & PROFILE  
 HERMOSA BEACH RD  
 STA 112+50 - STA 116+50**

DRAWING NO:  
 10 OF 25  
**W4**

LAYOUT: WS PATH: U:\PSCD\Projects\Clients\1598-Tulalip\Tribes\1598-TulalipBayWaterSystem\995\CA\DWG\W5\Package\_1 - Hermosa-MeterPRVs PLOTTED BY: betzyph DATE: Tuesday, May 21, 2024 4:02:01 PM



**PROFILE**  
 HORIZ: 1"=20'  
 VERT: 1"=5'

**WATER GENERAL NOTES:**

1. MAINTAIN A MINIMUM 3.5' AND MAXIMUM 5.0' COVER OVER WATER MAIN (TYP) OR AS SHOWN IN THE PROFILE.
2. THE EXISTING WATER MAIN IS SHOWN BASED ON THE TULALIP GIS, AND SHALL BE FIELD VERIFIED.

**WATER KEY NOTES:**

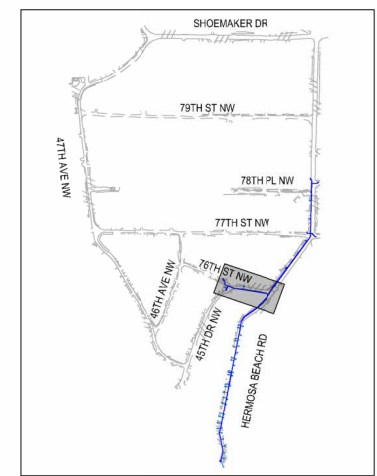
- 1 CONTRACTOR TO COORDINATE WITH SNOHOMISH COUNTY PUD IF NECESSARY FOR POLE HOLD.
- 2 INSTALL FIRE HYDRANT ASSEMBLY PER DETAIL 3, SHEET DT2.
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- 7 CONTRACTOR SHALL EXPOSE EXISTING PIPE AT CONNECTION AND VERIFY DIMENSION AND FITTING NEEDS PRIOR TO ORDERING PARTS.
- 8 REMOVE EXISTING METER.
- 9 INSTALL 2" BLOWOFF ASSEMBLY PER DETAIL 5, SHEET DT2.
- 10 INLET PROTECTION

**CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL MECHANICALLY RESTRAIN WATER MAIN FITTINGS AND PIPE JOINT USING ROMAC ROMAGRIP OR APPROVED EQUAL AS SHOWN ON SHEET DT3. ALL OTHER PIPE JOINTS SHALL NOT RECEIVING MECHANICAL RESTRAINT SHALL BE RESTRAINED WITH FIELD LOK GASKETS.
2. SEE TYPICAL TRENCH SECTIONS DETAIL ON SHEET DT1 FOR PAVEMENT RESTORATION.
3. PRESERVE AND PROTECT EXISTING ASPHALT.
4. NEW METER LOCATIONS ARE APPROXIMATE AND THE CONTRACTOR SHALL COORDINATE WITH THE TRIBES AND FIELD VERIFY THE NEW LOCATIONS.
5. ALL EXISTING METERS FOUND IN THE FIELD, THAT HAVE NOT BEEN LABELED OR IDENTIFIED IN THE BASEMAP, AND WHERE TO REPLACE WITH A NEW METER, WILL BE REMOVED PER WATER KEY NOTES 8.

**TESC / RESTORATION LEGEND**

- SEEDING, FERTILIZATION, AND MULCHING
- ASPHALT RESTORATION
- CONCRETE RESTORATION
- GRAVEL RESTORATION
- CAP AND ABANDON EXISTING WATER MAIN
- SAWCUT
- STORM DRAIN INLET PROTECTION PER WSDOT STD PLAN I-40.20-00



**KEY MAP**



Know what's below.  
 Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

**ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY.**

FILE NAME: PS1593158-PH1-W01-05  
 JOB TITLE: 216-1598-158  
 DATE: MAY 2024



05-21-2024

**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT**  
 TULALIP WASHINGTON

**WATER PLAN & PROFILE**  
**76TH ST NW**  
**STA 502+00 - END**

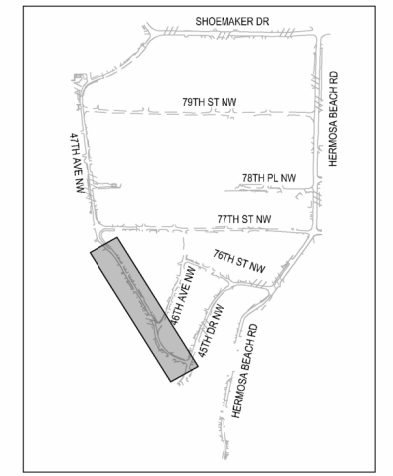
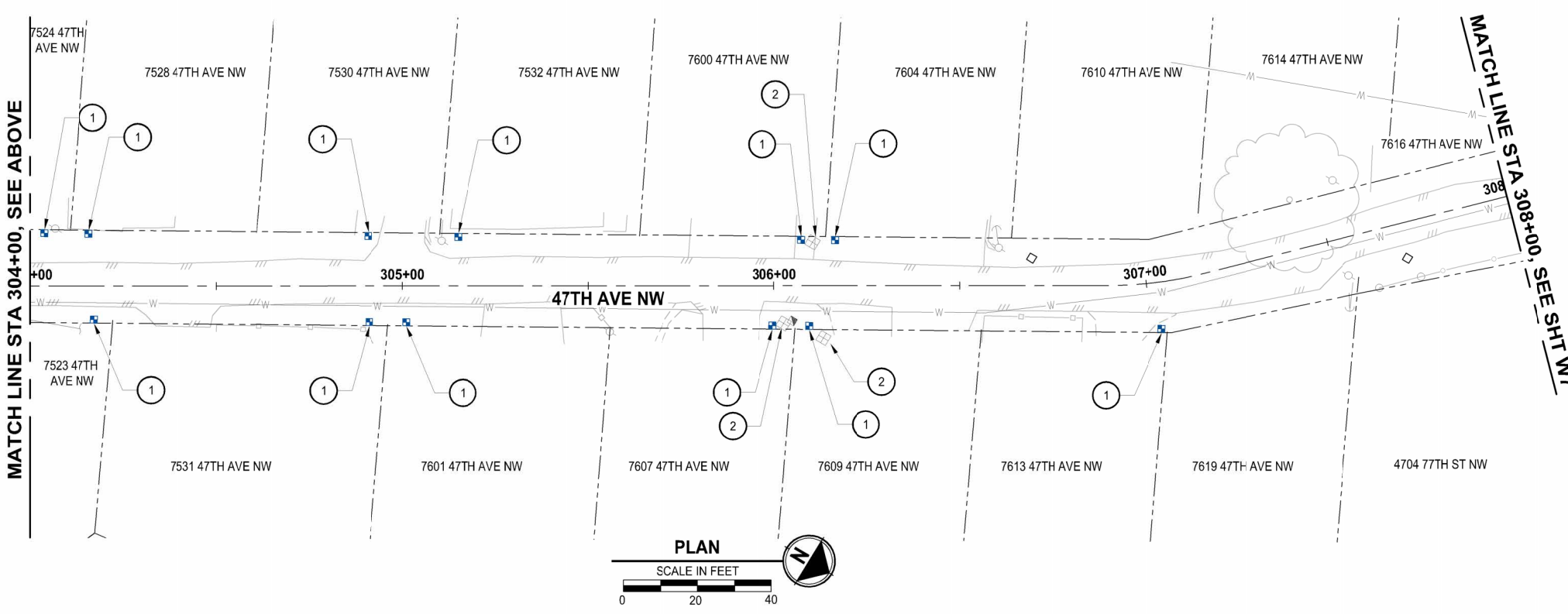
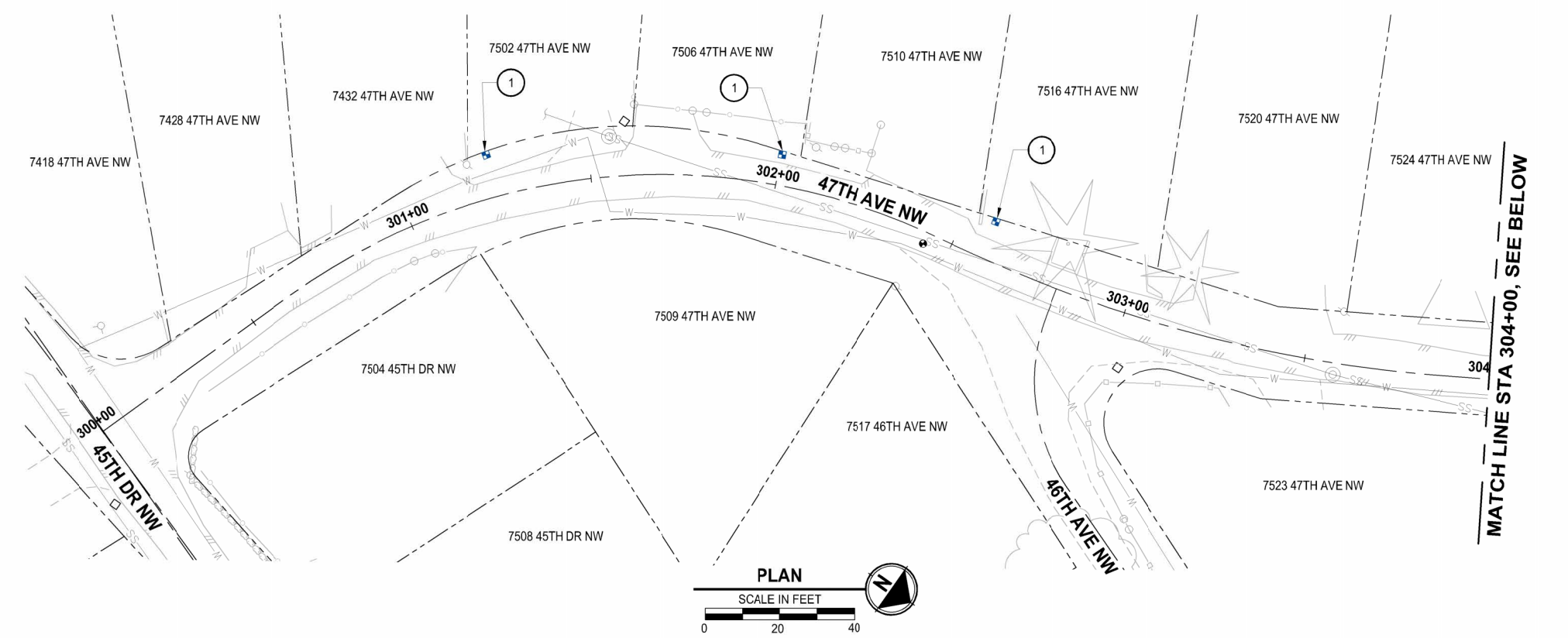
DRAWING NO.  
 11 OF 25  
**W5**

LAYOUT: W6 PATH: U:\PSC\Projects\Clients\1598-Tulalip\Tribes\216-1598-158-TulalipBayWaterSystem\985\CAADD\DWG\Package\_1 - Hermosa-MeterPRVs PLOTTED BY: betzyph DATE: Tuesday, May 21, 2024 4:06:16 PM

- WATER GENERAL NOTES:**
1. MAINTAIN A MINIMUM 2' COVER OVER SERVICE LINE.
  2. THE EXISTING WATER MAIN IS SHOWN BASED ON THE TULALIP GIS, AND SHALL BE FIELD VERIFIED.
  3. CENTERLINE ALIGNMENT IS FOR THE SHEET CUT REFERENCE ONLY.

- WATER KEY NOTES:**
1. INSTALL NEW METER AND PRV
  2. REMOVE EXISTING METER

- CONSTRUCTION NOTES:**
1. NEW METER LOCATIONS ARE APPROXIMATE AND THE CONTRACTOR SHALL COORDINATE WITH THE TRIBES AND FIELD VERIFY THE NEW LOCATIONS.
  2. PRESERVE AND PROTECT EXISTING ASPHALT.
  3. ALL EXISTING METERS FOUND IN THE FIELD, THAT HAVE NOT BEEN LABELED OR IDENTIFIED IN THE BASEMAP, AND WHERE TO REPLACE WITH A NEW METER, WILL BE REMOVED PER WATER KEY NOTES 2.



KEY MAP



Know what's below.  
Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

FILE NAME  
PS1593158-PH1-W06-09

JOB NO.  
216-1598-158

DATE  
MAY 2024



05-21-2024

**Parametrix**  
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
Ph: 253.604.6600

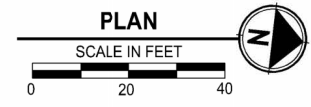
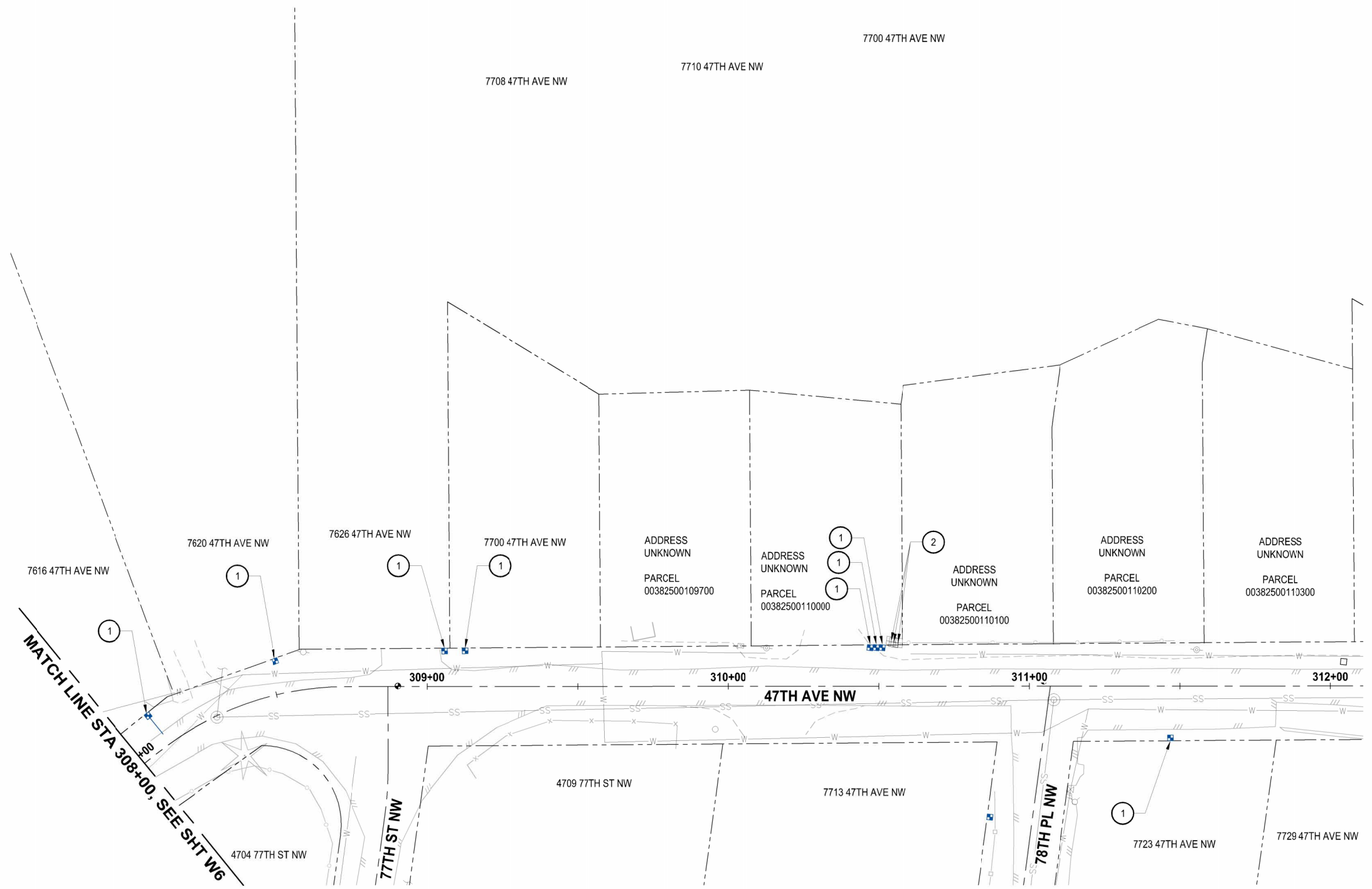
PROJECT NAME  
**THE TULALIP TRIBES  
TULALIP BAY WATER SYSTEM  
IMPROVEMENTS - PHASE 1 PROJECT**  
TULALIP WASHINGTON

**WATER METER AND PRV  
47TH AVE NW**

DRAWING NO.  
12 OF 25

**W6**

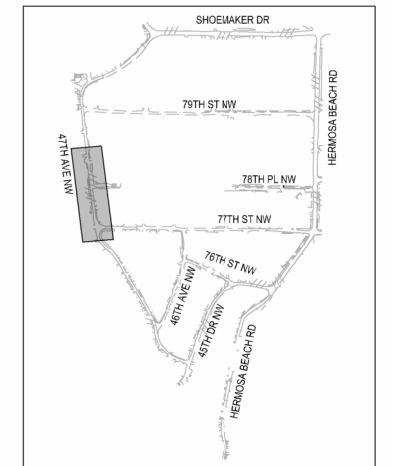
LAYOUT: W7 PATH: U:\PSCD\Projects\Clients\1598-Tulalip\Tubes\216-1598-158-TulalipBayWaterSystem\995\ca\CADD\DWG\Package\_1 - Hermosa-MeterPRVs PLOTTED BY: betzyjoh DATE: Tuesday, May 21, 2024 4:06:50 PM



- WATER GENERAL NOTES:**
1. MAINTAIN A MINIMUM 2' COVER OVER SERVICE LINE.
  2. THE EXISTING WATER MAIN IS SHOWN BASED ON THE TULALIP GIS, AND SHALL BE FIELD VERIFIED.
  3. CENTERLINE ALIGNMENT IS FOR THE SHEET CUT REFERENCE ONLY.

- WATER KEY NOTES:**
1. INSTALL NEW METER AND PRV
  2. REMOVE EXISTING METER

- CONSTRUCTION NOTES:**
1. NEW METER LOCATIONS ARE APPROXIMATE AND THE CONTRACTOR SHALL COORDINATE WITH THE TRIBES AND FIELD VERIFY THE NEW LOCATIONS.
  2. PRESERVE AND PROTECT EXISTING ASPHALT.
  3. ALL EXISTING METERS FOUND IN THE FIELD, THAT HAVE NOT BEEN LABELED OR IDENTIFIED IN THE BASEMAP, AND WHERE TO REPLACE WITH A NEW METER, WILL BE REMOVED PER WATER KEY NOTES 2.



KEY MAP



Know what's below.  
Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

**ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY**

FILE NAME  
PS1593158-PH1-W06-09

JOB NO.  
216-1598-158

DATE  
MAY 2024



05-21-2024

**Parametrix**  
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
Ph: 253.604.6600

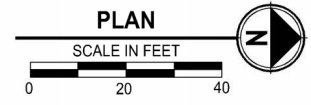
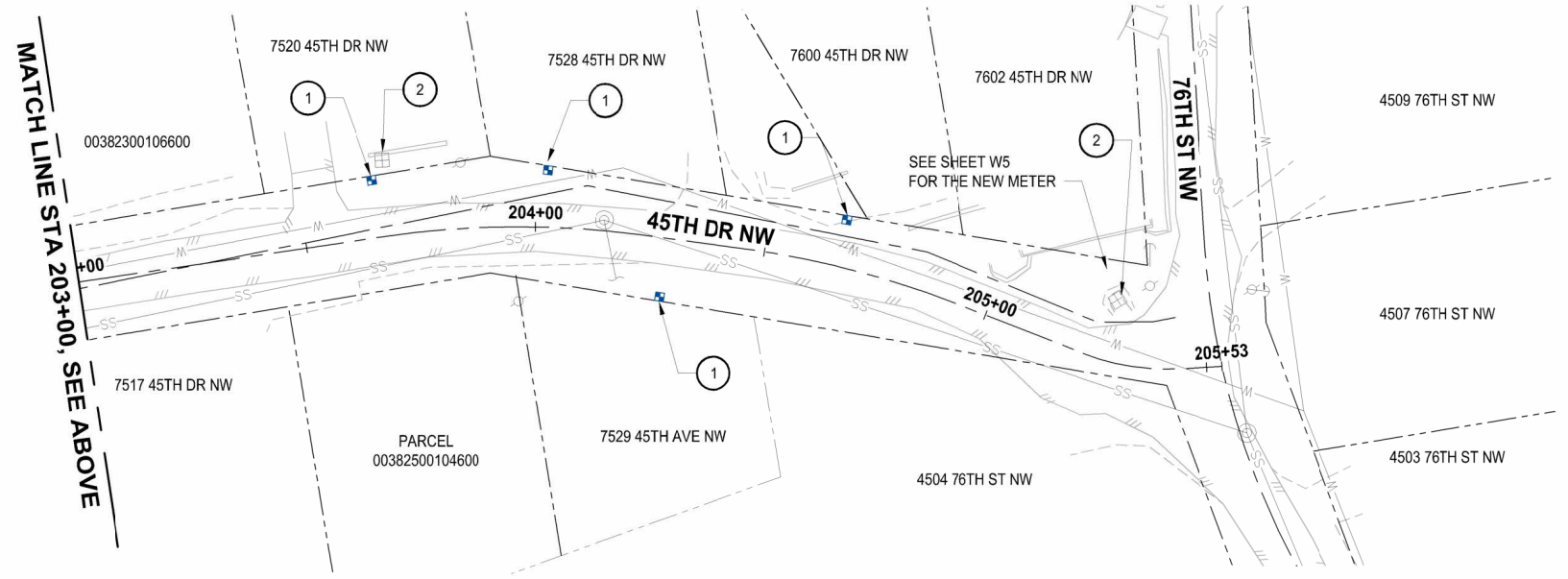
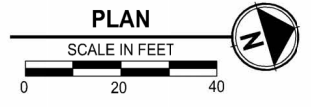
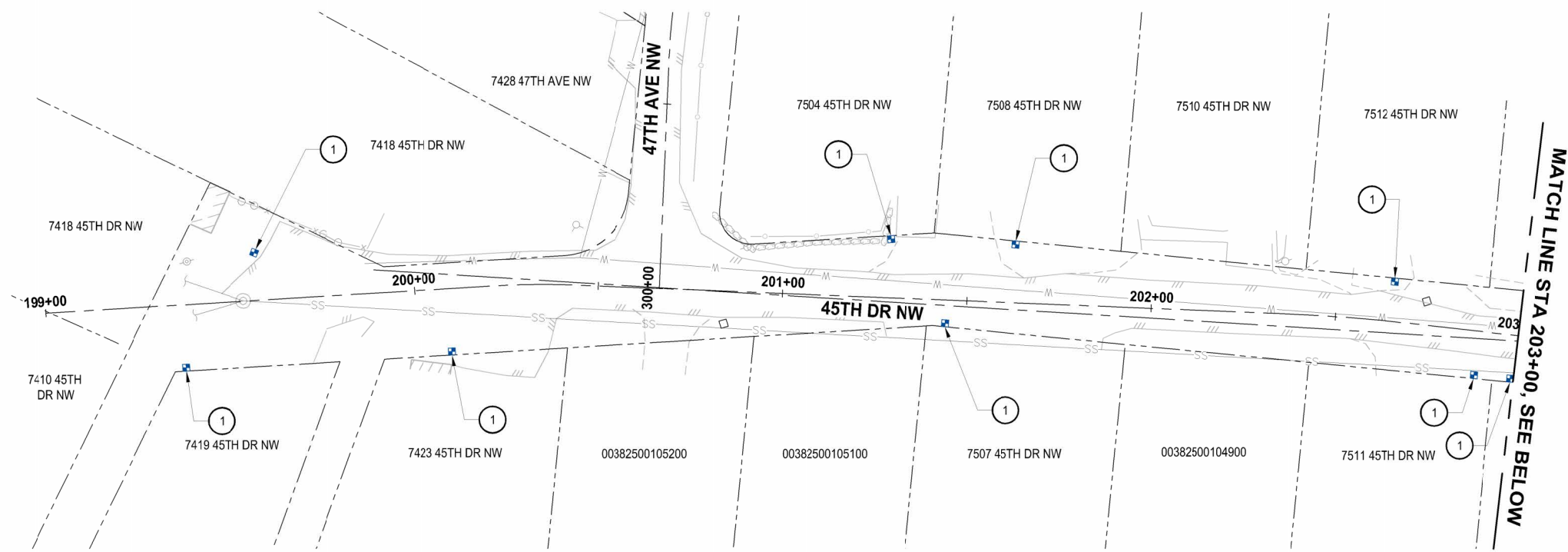
PROJECT NAME  
**THE TULALIP TRIBES  
TULALIP BAY WATER SYSTEM  
IMPROVEMENTS - PHASE 1 PROJECT  
TULALIP WASHINGTON**

**WATER METER AND PRV  
47TH AVE NW**

DRAWING NO.  
13 OF 25

**W7**

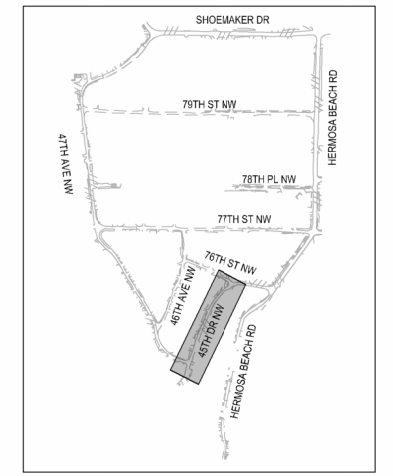
LAYOUT: W8 PATH: U:\PSC\Projects\Clients\1598-158 Tulalip\Tribes\216-1598-158 Tulalip Bay Water System\995\CA\DWG\W8\Package 1 - Hermosa-MetersPRVs PLOTTED BY: betzyph DATE: Tuesday, May 21, 2024 4:12:57 PM



- WATER GENERAL NOTES:**
1. MAINTAIN A MINIMUM 2' COVER OVER SERVICE LINE.
  2. THE EXISTING WATER MAIN IS SHOWN BASED ON THE TULALIP GIS, AND SHALL BE FIELD VERIFIED.
  3. CENTERLINE ALIGNMENT IS FOR THE SHEET CUT REFERENCE ONLY.

- WATER KEY NOTES:**
1. INSTALL NEW METER AND PRV
  2. REMOVE EXISTING METER

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  2. PRESERVE AND PROTECT EXISTING ASPHALT.
  3. ALL EXISTING METERS FOUND IN THE FIELD, THAT HAVE NOT BEEN LABELED OR IDENTIFIED IN THE BASEMAP, AND WHERE TO REPLACE WITH A NEW METER, WILL BE REMOVED PER WATER KEY NOTES 2.



KEY MAP



Know what's below.  
Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

**ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY**  
 FILE NAME: PS1593158-PH1-W06-09  
 JOB NO: 216-1598-158  
 DATE: MAY 2024



05-21-2024

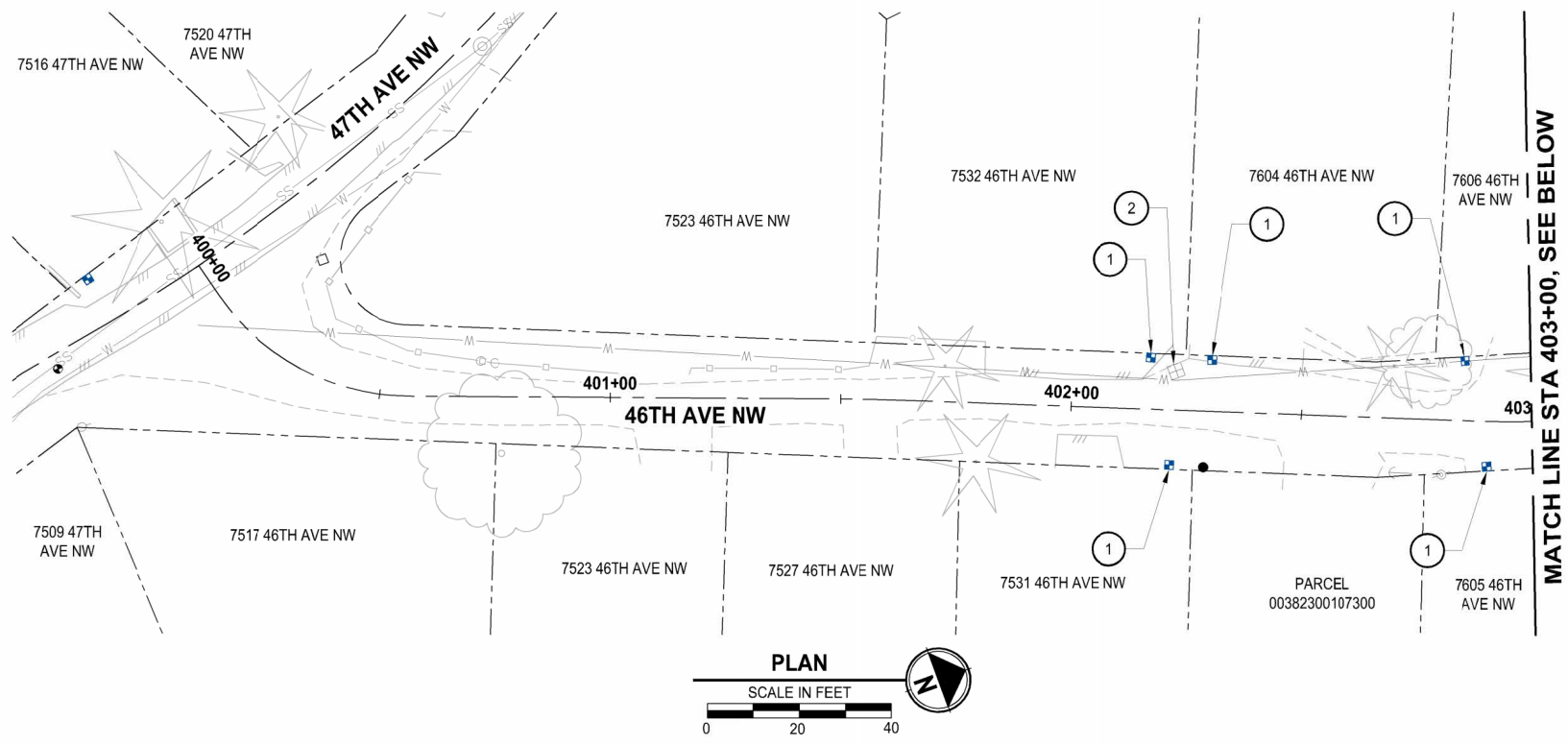
**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT**  
 TULALIP WASHINGTON

**WATER METER AND PRV  
 45TH AVE NW**

DRAWING NO.  
 14 OF 25  
**W8**

LAYOUT: W9 PATH: U:\PSCD\Projects\Clients\1598-Tulalip\TulalipBayWaterSystem\995\CAADD\DWG\Package\_1 - Hermosa-MeterPRVs PLOTTED BY: betzyjoh DATE: Tuesday, May 21, 2024 4:16:00 PM

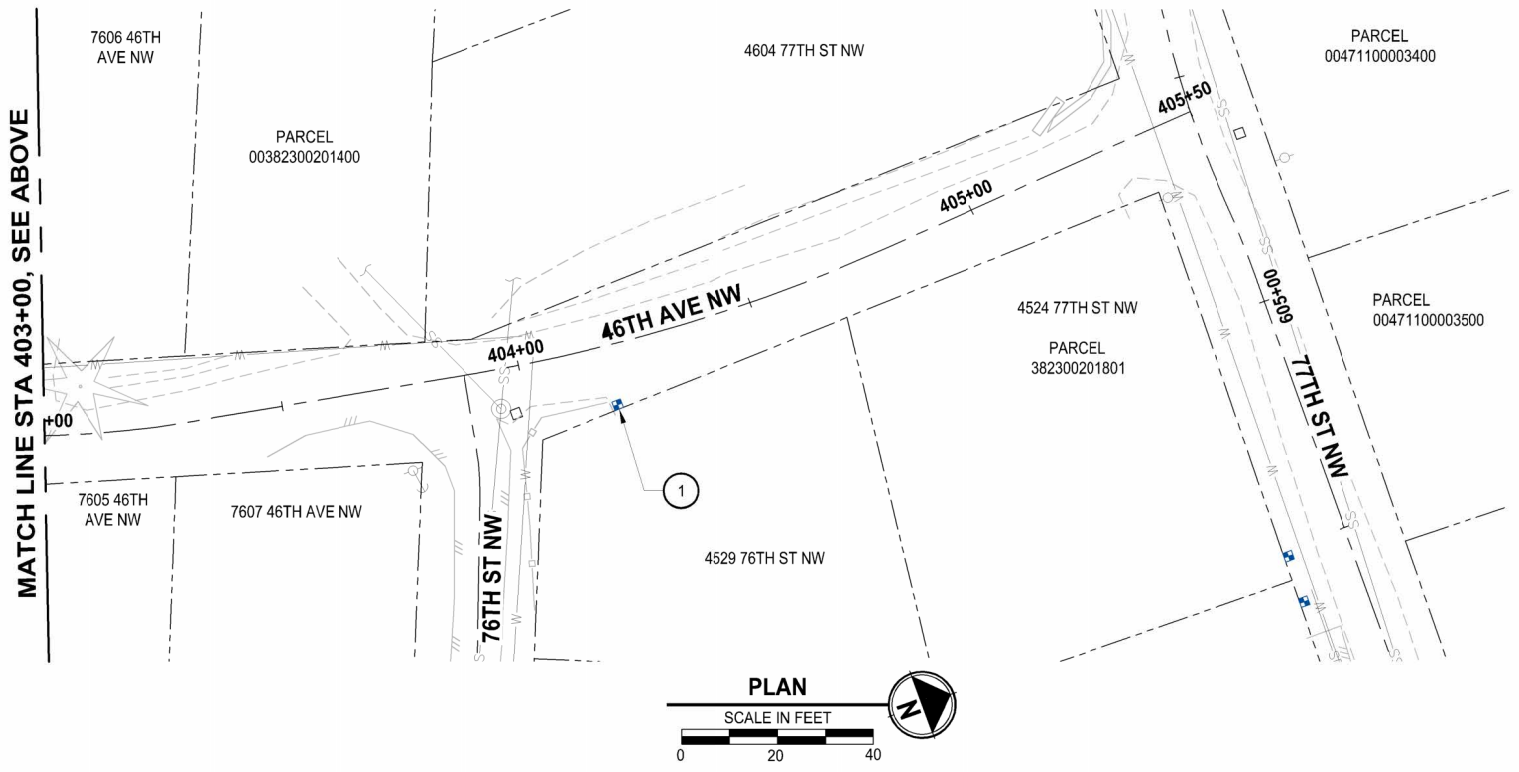


MATCH LINE STA 403+00, SEE BELOW

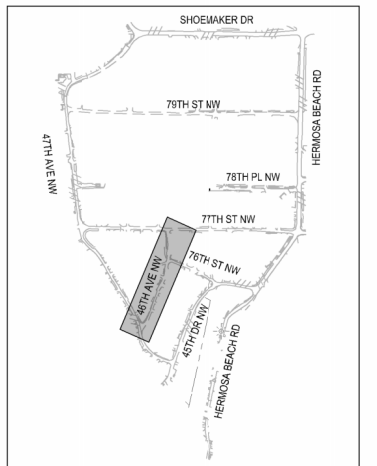
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MATCH LINE STA 403+00, SEE ABOVE



KEY MAP



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Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

**ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY**  
 FILE NAME: PS1593158-PH1-W06-09  
 JOB NO: 216-1598-158  
 DATE: MAY 2024



05-21-2024

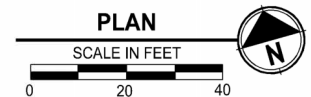
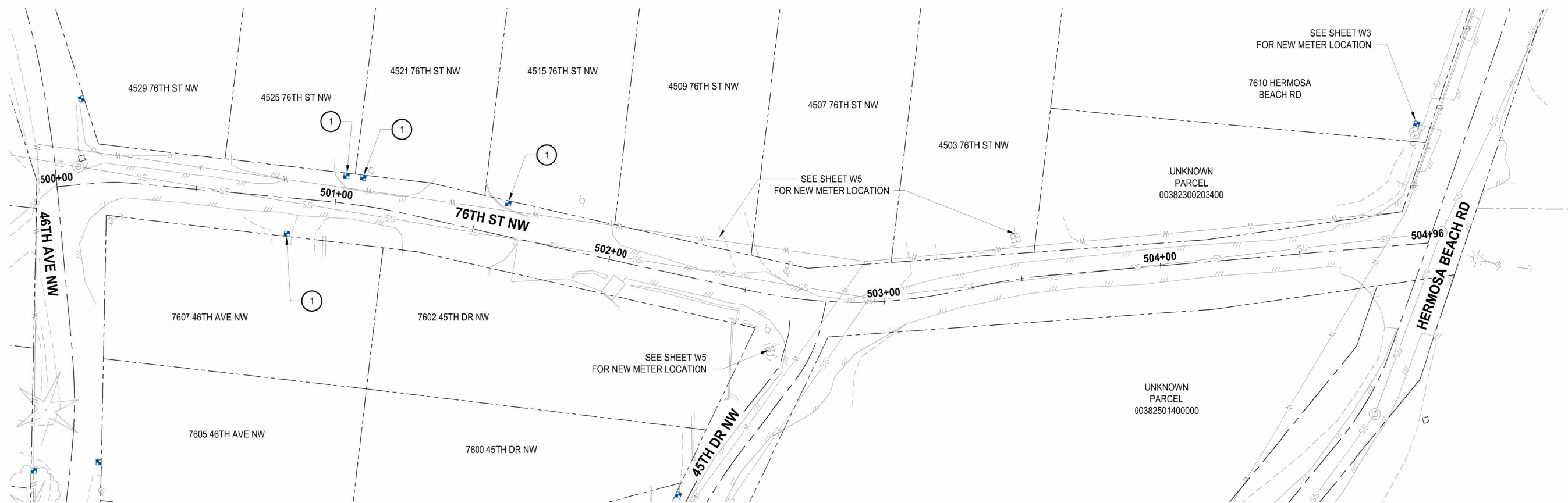
**ParametriX**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT**  
 TULALIP WASHINGTON

**WATER METER AND PRV  
 46TH AVE NW**

DRAWING NO.  
 15 OF 25  
**W9**

LAYOUT: W10 PATH: U:\PSO\Projects\Clients\1598-1598-158 Tulalip Tribes\1598-1598-158 Tulalip Bay Water System\95\SS\CA\DWG\Package 1 - Hermosa-MetersPRVs PLOTTED BY: betzyph DATE: Tuesday, May 21, 2024 4:18:08 PM



**WATER GENERAL NOTES:**

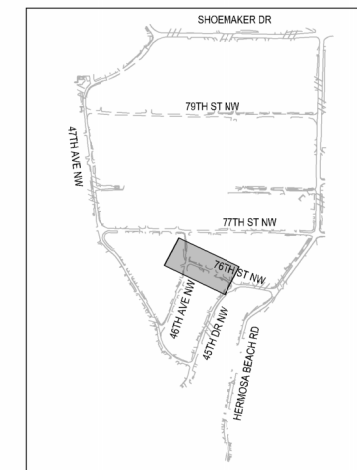
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**WATER KEY NOTES:**

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- ② REMOVE EXISTING METER

**CONSTRUCTION NOTES:**

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KEY MAP



Know what's below.  
Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

FILE NAME  
PS1593158-PH1-W10-15

JOB NO.  
216-1598-158

DATE  
MAY 2024



05-21-2024

**Parametrix**  
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
TULALIP BAY WATER SYSTEM  
IMPROVEMENTS - PHASE 1 PROJECT  
TULALIP WASHINGTON**

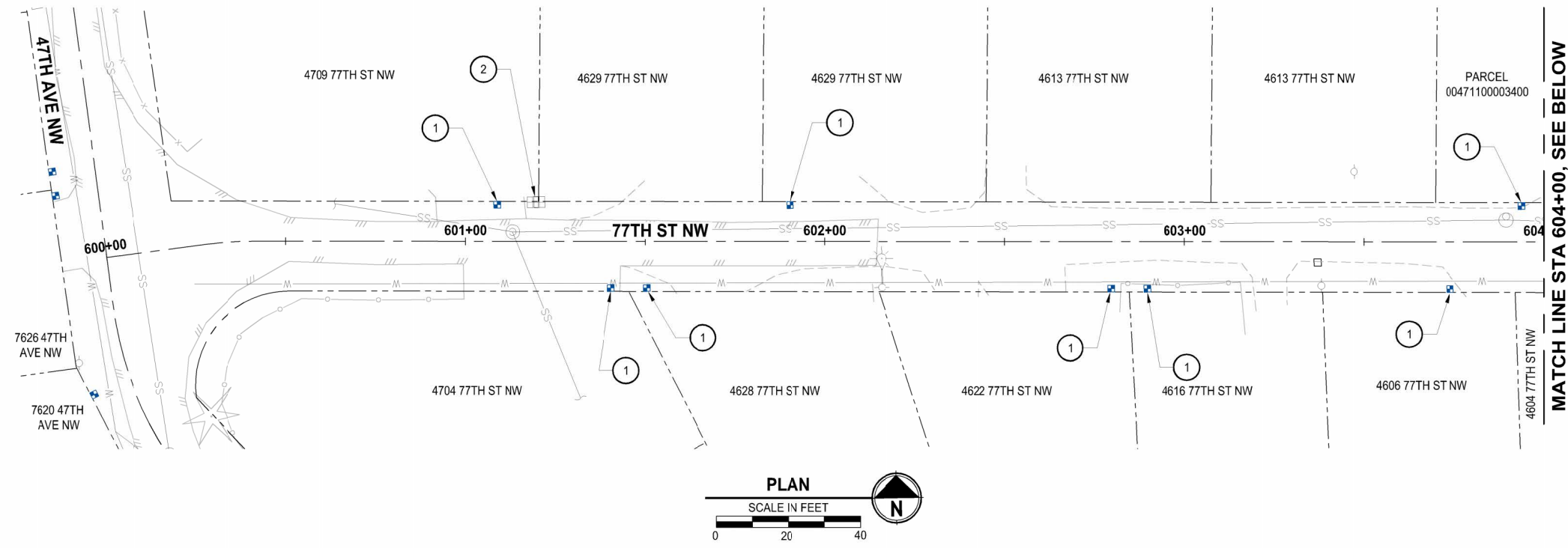
**WATER METER AND PRV  
76TH ST NW**

DRAWING NO.  
16 OF 25

**W10**



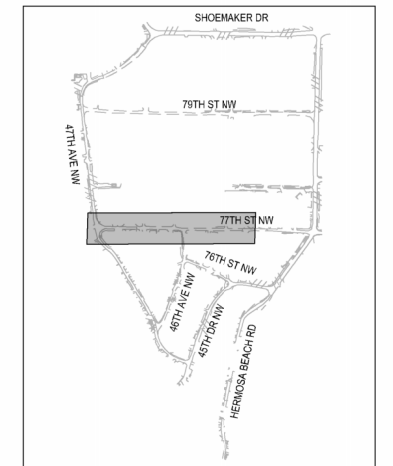
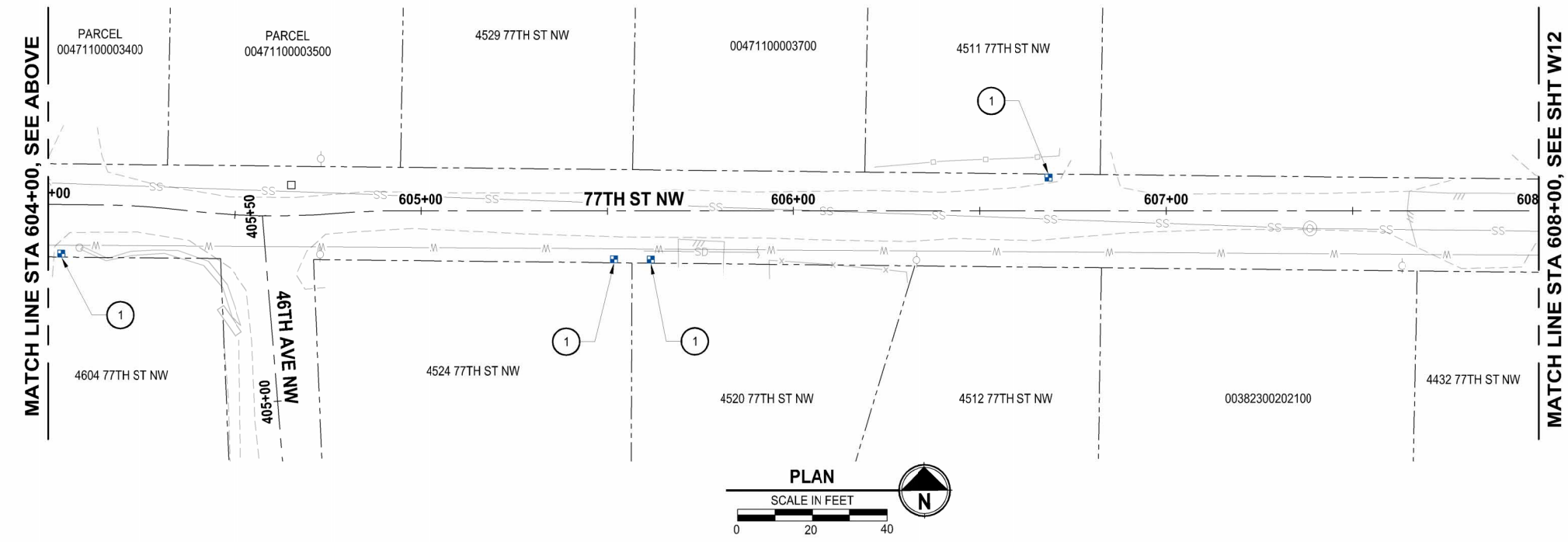
LAYOUT: W11  
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 PLOTTED BY: betzyph DATE: Tuesday, May 21, 2024 4:20:53 PM



- WATER GENERAL NOTES:**
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KEY MAP



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REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

FILE NAME  
PS1593158-PH1-W10-15

JOB NO.  
216-1598-158

DATE  
MAY 2024



05-21-2024

**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

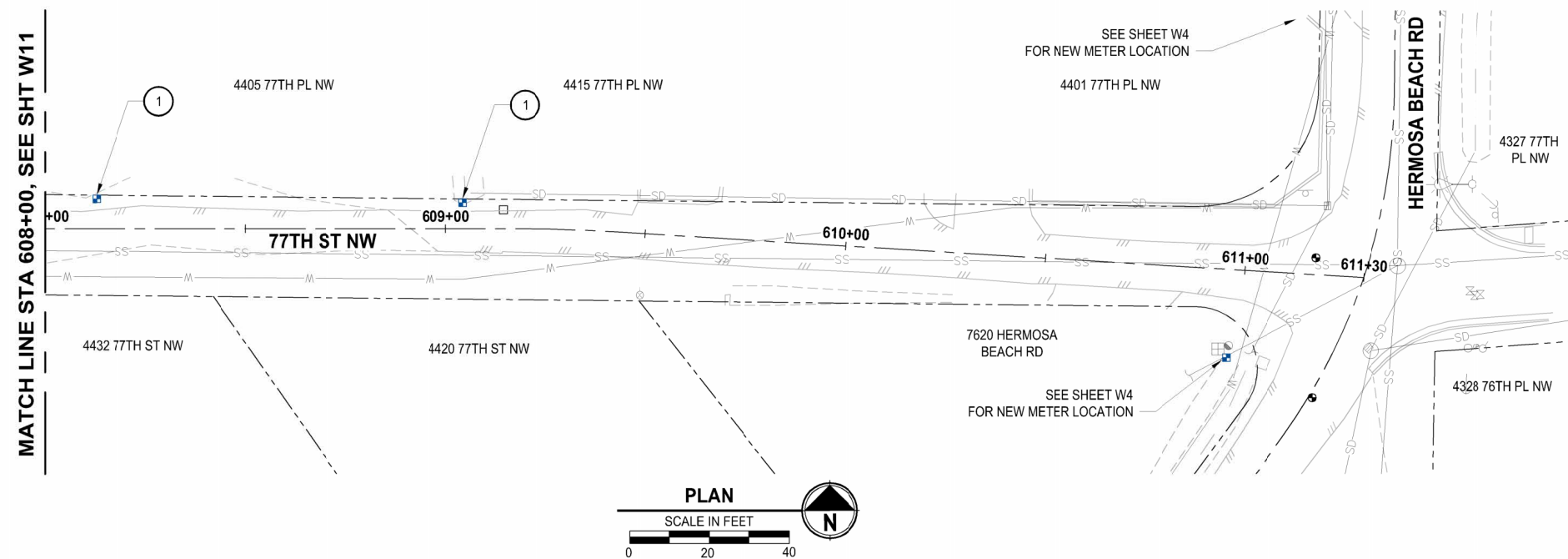
PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT**  
 TULALIP WASHINGTON

**WATER METER AND PRV  
 77TH ST NW**

DRAWING NO.  
17 OF 25

**W11**

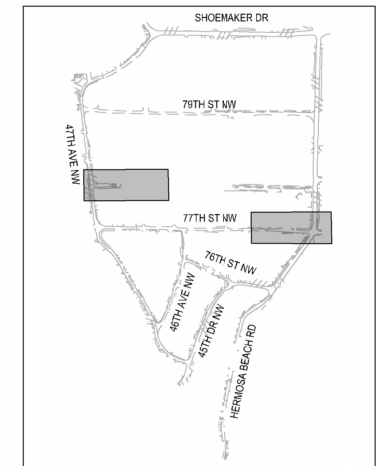
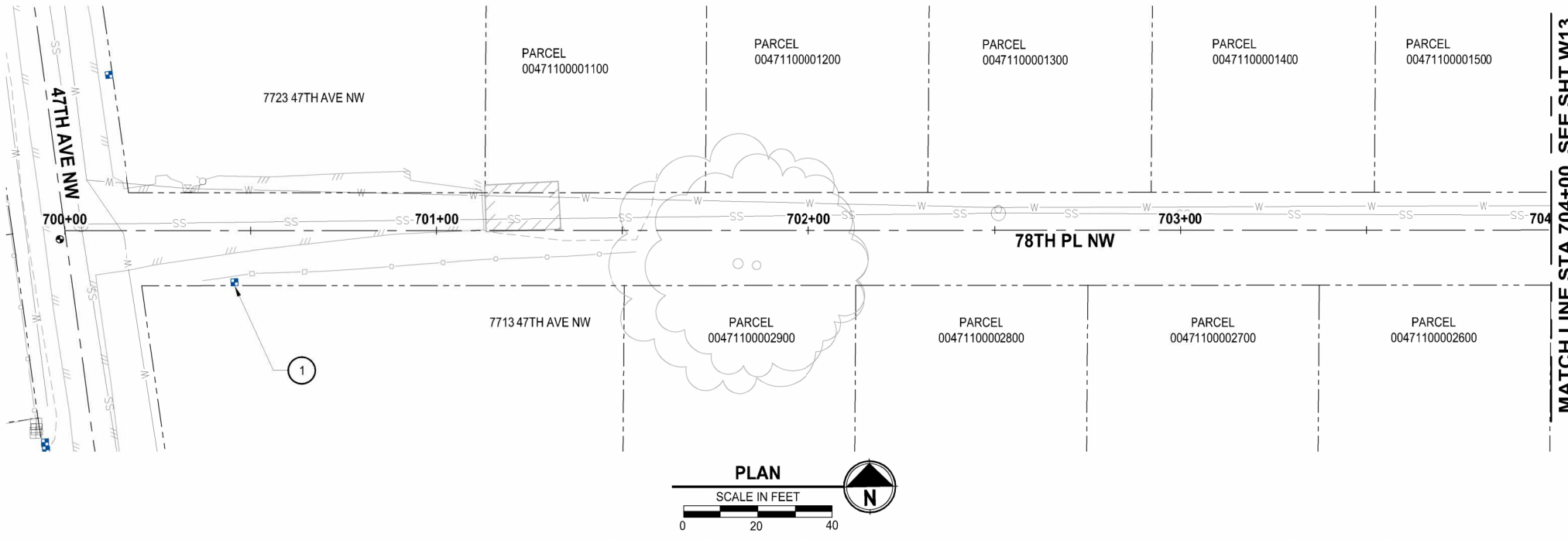
LAYOUT: W12 PATH: U:\PSO\Projects\Clients\1998-1598-158 Tulalip Tribes\1998-1598-158 Tulalip Bay Water System\CADD\DWG\Package 1 - Hermosa-MeterPRV.s



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			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

**ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY.**  
 FILE NAME: PS1593158-PH1-W10-15  
 JOB NO: 216-1598-158  
 DATE: MAY 2024



05-21-2024

**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT**  
 TULALIP WASHINGTON

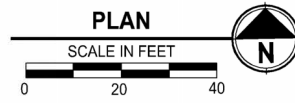
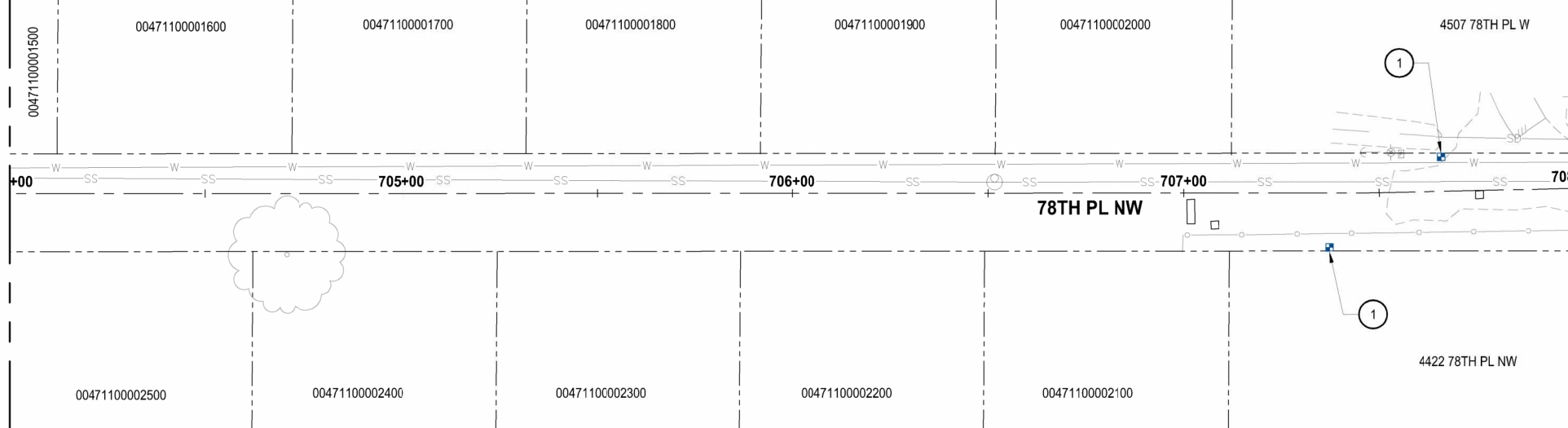
**WATER METER AND PRV  
 77TH ST NW & 78TH PL NW**

DRAWING NO.  
 18 OF 25  
**W12**

LAYOUT: W13 PATH: U:\PSO\Projects\Clients\1998-Tulalip Tribes\1998-158-Tulalip Tribes\216-1598-158-Tulalip Bay Water System\CADD\DWG\Package 1 - Hermosa-MeterPRVs PLOTTED BY: betzolph DATE: Tuesday, May 21, 2024 4:24:49 PM

MATCH LINE STA 704+00, SEE SHT W12

MATCH LINE STA 708+00, SEE BELOW

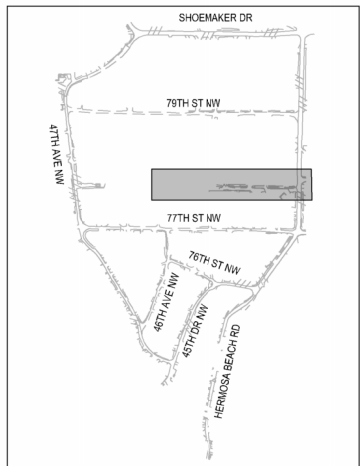
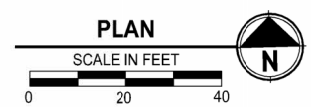
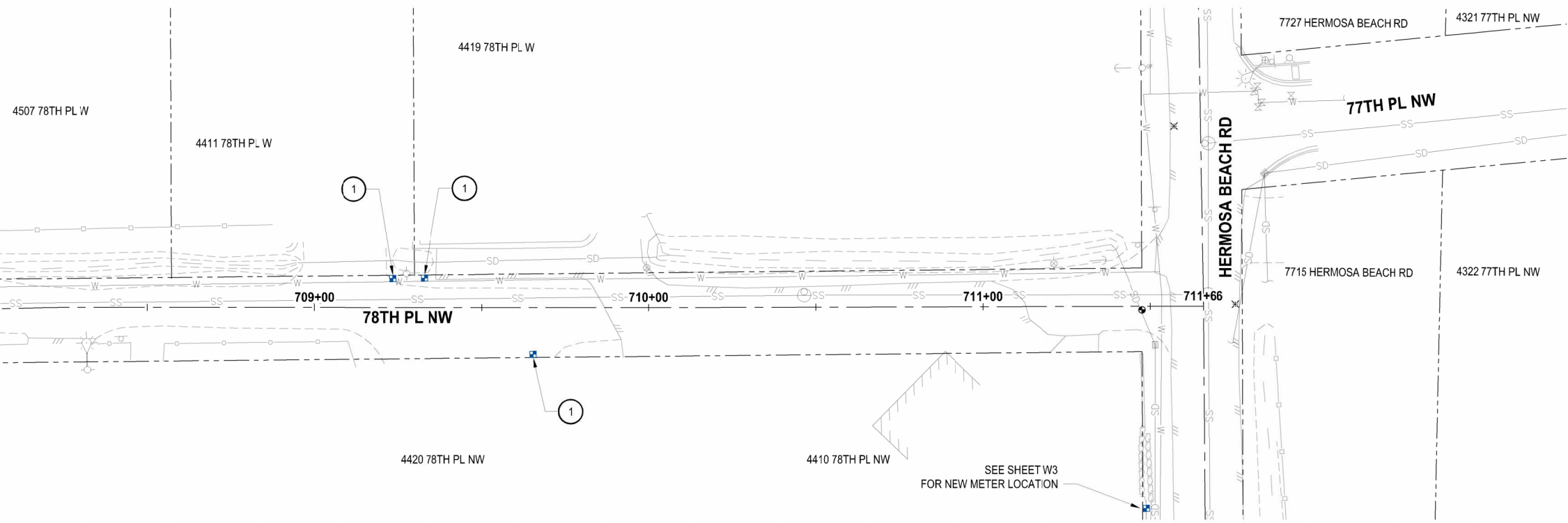


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MATCH LINE STA 708+00, SEE ABOVE



KEY MAP



Know what's below. Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN Y. MAHMOODI
			CHECKED J. WRIGHT
			APPROVED H. LONGFELLOW

**ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY.**  
 FILE NAME: PS1593158-PH1-W10-15  
 JOB NO: 216-1598-158  
 DATE: MAY 2024



05-21-2024

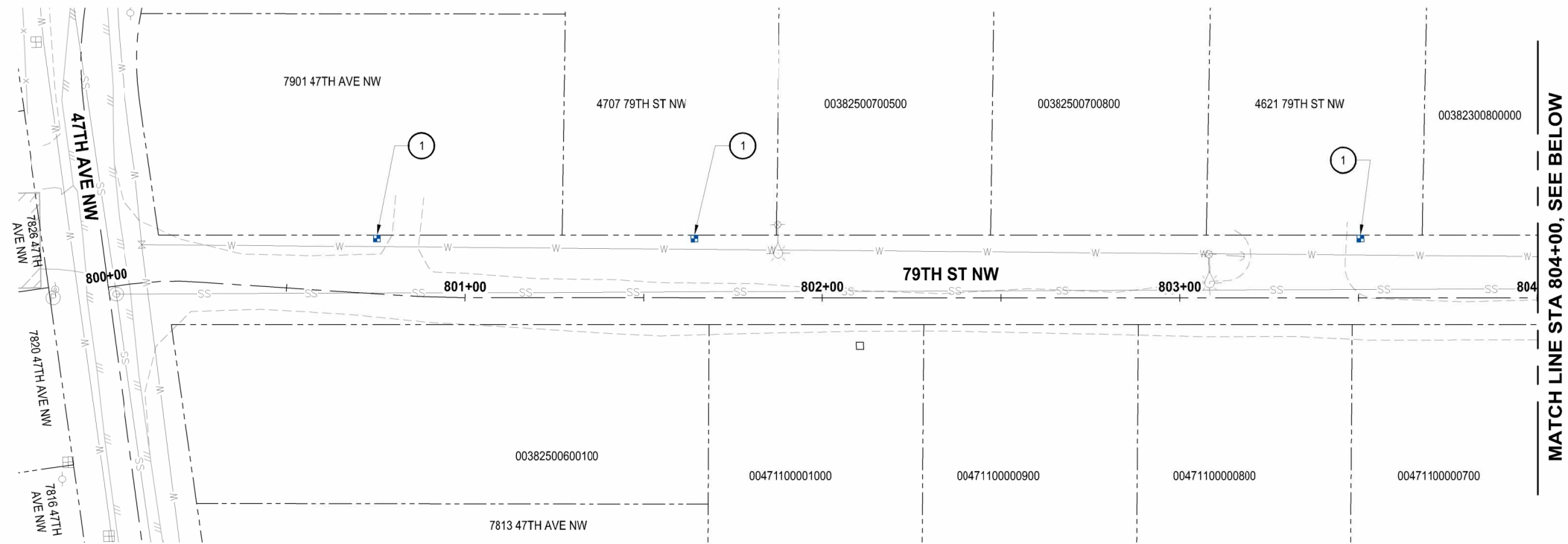
**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT  
 TULALIP WASHINGTON**

**WATER METER AND PRV  
 78TH PL NW**

DRAWING NO.  
 19 OF 25  
**W13**

LAYOUT: W14 PATH: U:\PSO\Projects\Clients\1998-Tulalip Tribes\1998-158-Tulalip Tribes\216-1598-158-Tulalip Tribes\WaterSystem\985\SS\CA\DWG\Package 1 - Hermost-MeterPRV.s PLOTTED BY: betzyph DATE: Tuesday, May 21, 2024 4:26:26 PM

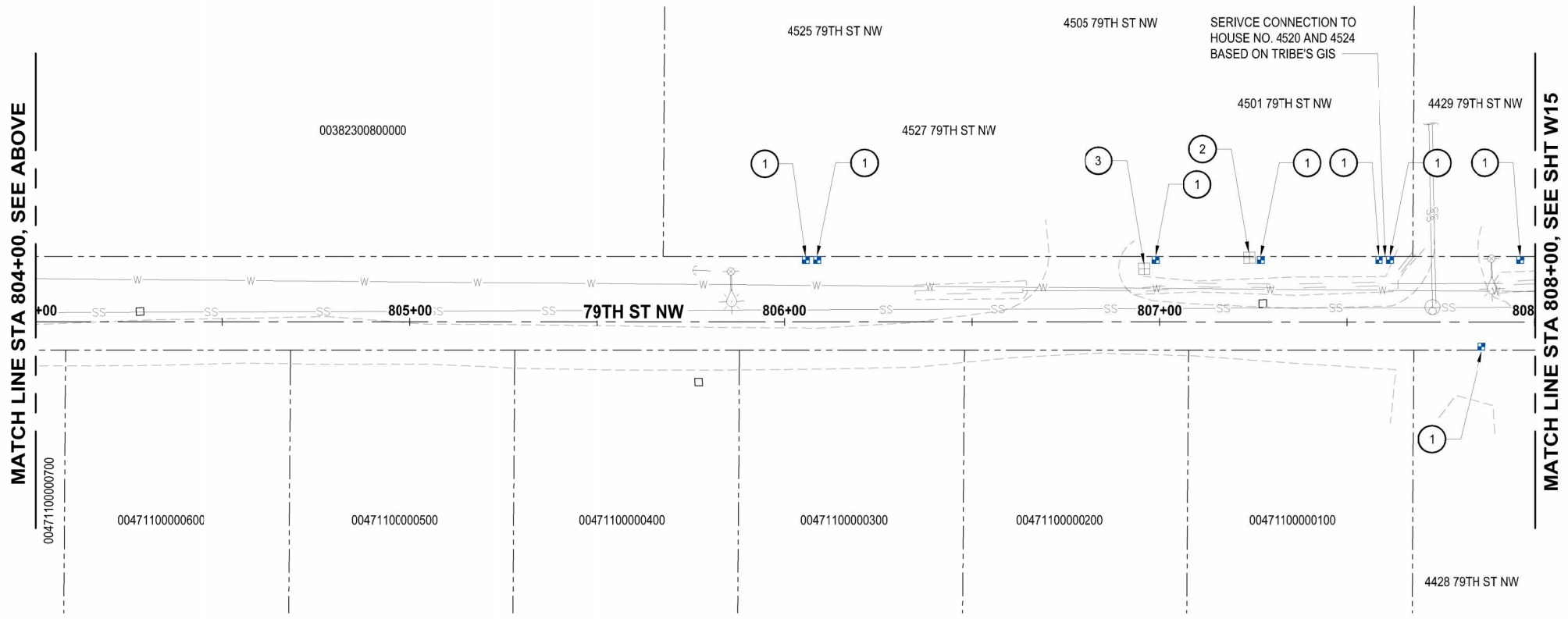
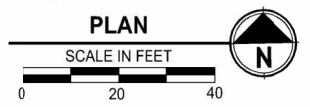


MATCH LINE STA 804+00, SEE BELOW

- WATER GENERAL NOTES:**
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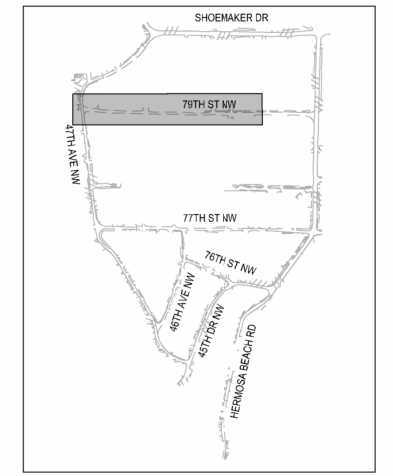
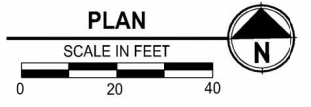
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MATCH LINE STA 804+00, SEE ABOVE

MATCH LINE STA 808+00, SEE SHT W15



KEY MAP



Know what's below.  
Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN
			Y. MAHMOODI
			CHECKED
			J. WRIGHT
			APPROVED
			H. LONGFELLOW

ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY

FILE NAME  
PS1593158-PH1-W10-15

JOB NO.  
216-1598-158

DATE  
MAY 2024



05-21-2024

**Parametrix**  
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
Ph: 253.604.6600

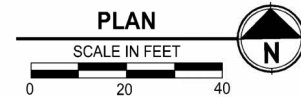
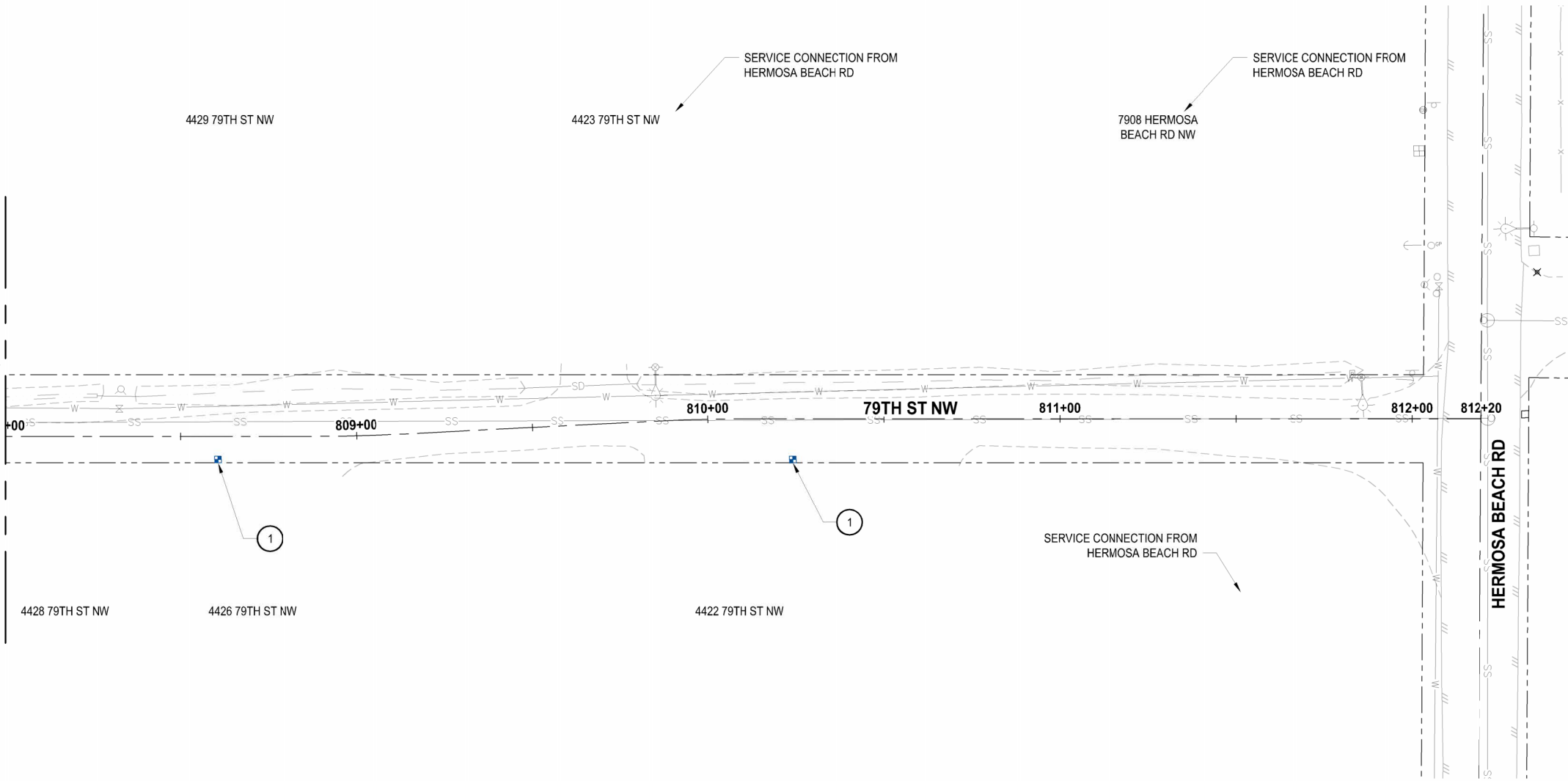
PROJECT NAME  
**THE TULALIP TRIBES  
TULALIP BAY WATER SYSTEM  
IMPROVEMENTS - PHASE 1 PROJECT**  
TULALIP WASHINGTON

**WATER METER AND PRV  
79TH ST NW**

DRAWING NO.  
20 OF 25  
**W14**

LAYOUT: W15 PATH: U:\PSO\Projects\Clients\1598-Tulalip Tribes\1598-158-Tulalip Tribes\216-1598-158-Tulalip Tribes\216-1598-158-Tulalip Tribes\WaterSystem\95\SS\CA\DWG\Package 1 - Hermosa-MeterPRV.s PLOTTED BY: betzyph DATE: Tuesday, May 21, 2024 4:28:32 PM

MATCH LINE STA 808+00, SEE SHT W14



**WATER GENERAL NOTES:**

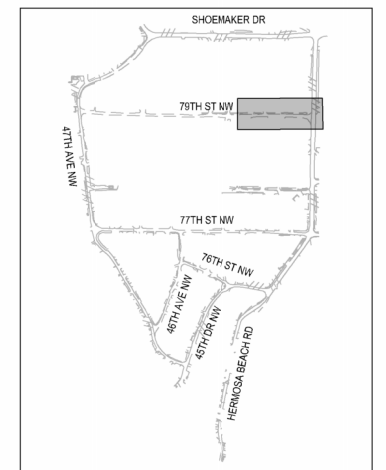
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3. ALL EXISTING METERS FOUND IN THE FIELD, THAT HAVE NOT BEEN LABELED OR IDENTIFIED IN THE BASEMAP, AND WHERE TO REPLACE WITH A NEW METER, WILL BE REMOVED PER WATER KEY NOTES 2.



KEY MAP



Know what's below.  
Call before you dig.

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN Y. MAHMOODI
			CHECKED J. WRIGHT
			APPROVED H. LONGFELLOW

**ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY**

FILE NAME  
PS1593158-PH1-W10-15

JOB NO.  
216-1598-158

DATE  
MAY 2024



05-21-2024

**Parametrix**  
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
Ph: 253.604.6600

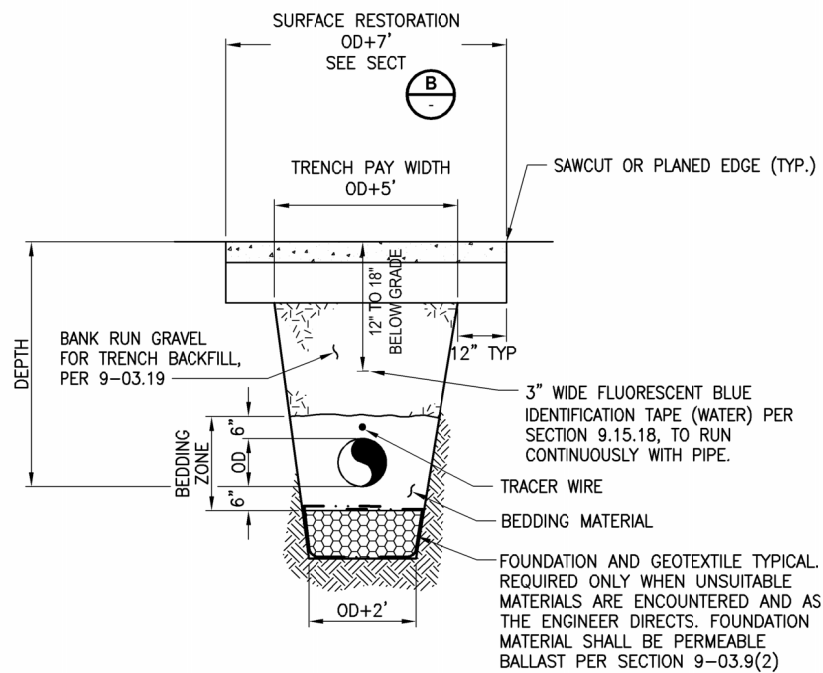
PROJECT NAME  
**THE TULALIP TRIBES  
TULALIP BAY WATER SYSTEM  
IMPROVEMENTS - PHASE 1 PROJECT**  
TULALIP WASHINGTON

**WATER METER AND PRV  
79TH ST NW**

DRAWING NO.  
21 OF 25

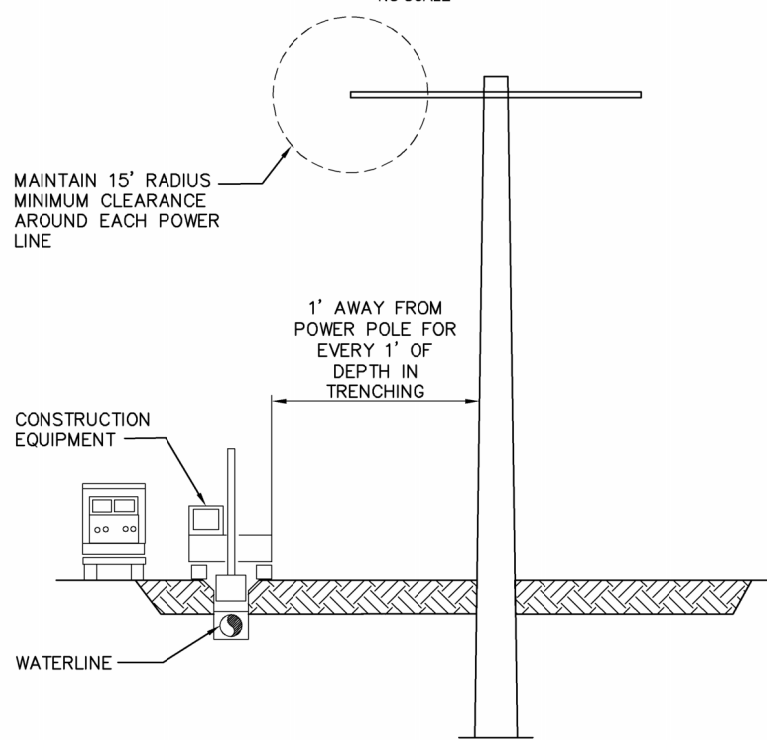
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 PLOTTED BY: betzyph DATE: Tuesday, May 21, 2024 3:40:56 PM  
 LAYOUT: DT1

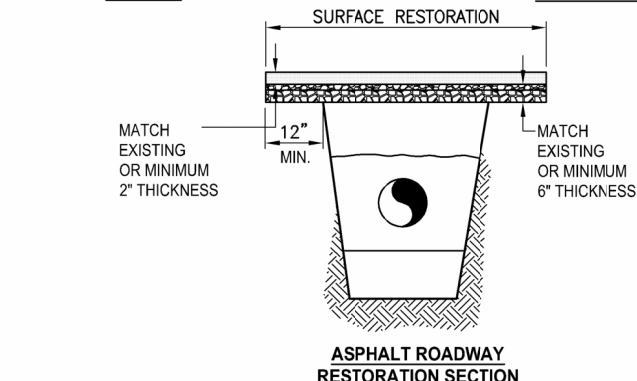
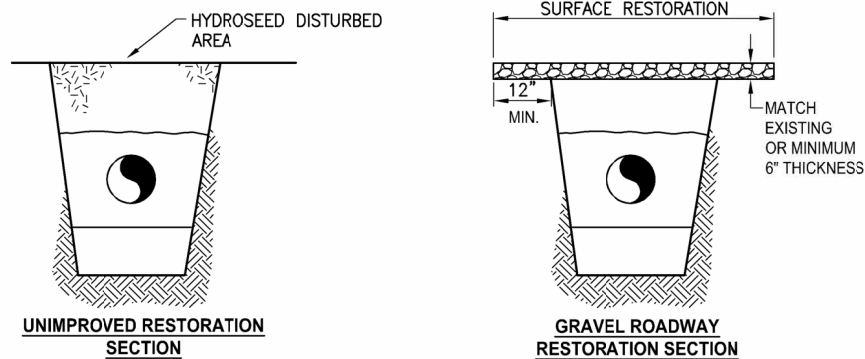


- NOTES:**
1. COMPACTION: BEDDING SHALL BE COMPACTED TO 95% MAX. AS DETERMINED BY ASTM D1557. BACKFILL SHALL BE COMPACTED TO 95% IN PAVED OR SHOULDER AREAS AS DETERMINED BY ASTM D1557.
  2. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE MOST CURRENT WSDOT/APWA STANDARD SPECIFICATIONS.
  3. NATIVE MATERIAL MEETING REQUIREMENTS OF 9-03.19 IS ACCEPTABLE FOR TRENCH BACKFILL.

**TYPICAL TRENCH SECTION**  
NO SCALE TYP

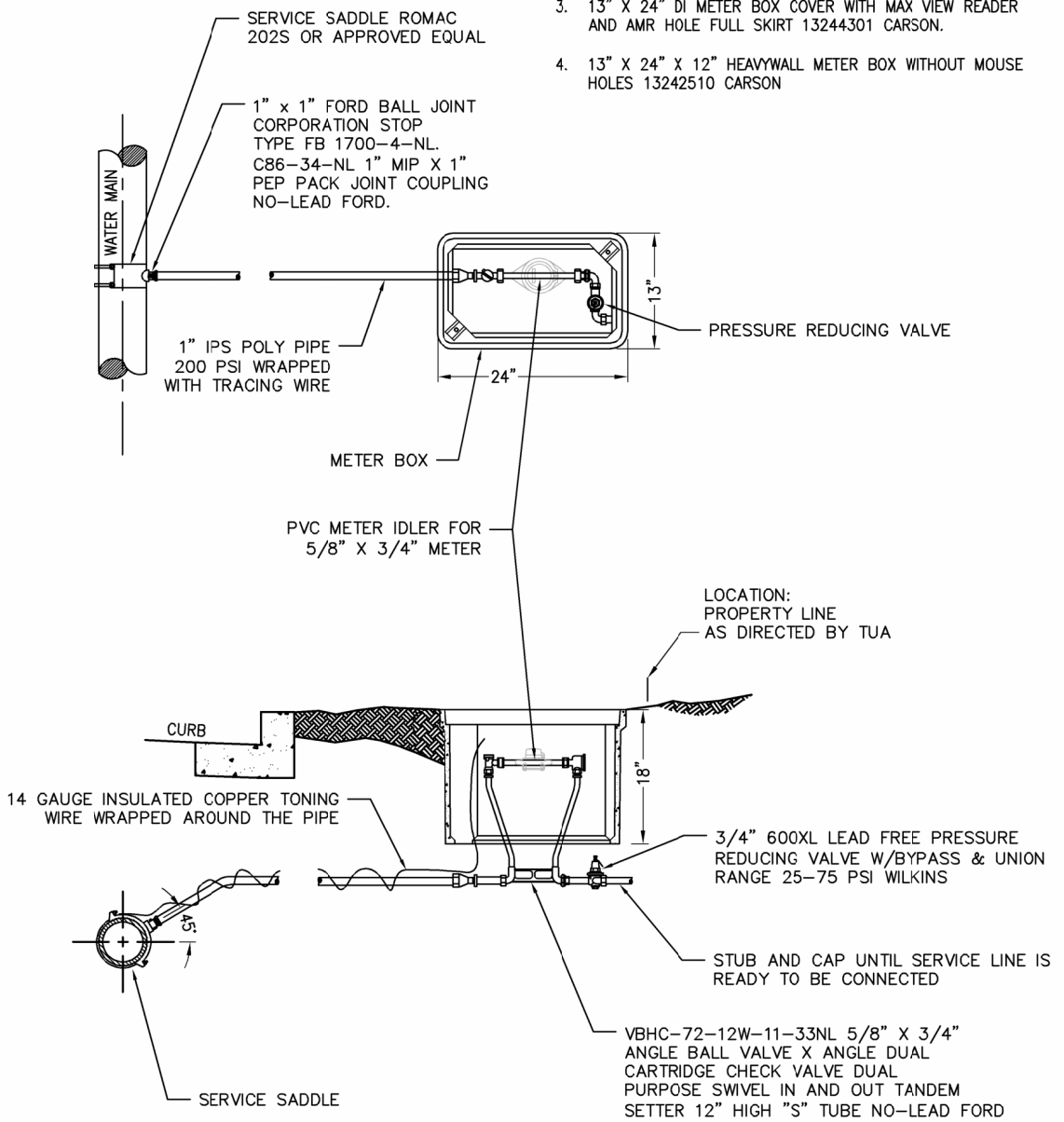


**SNOHOMISH PUBLIC UTILITY DISTRICT NO. 1 POWER LINE CLEARANCE DETAIL**  
NO SCALE TYP



**TYPICAL RESTORATION SECTION**  
NO SCALE TYP

- NOTES:**
1. THE CONTRACTOR WORKING ADJACENT TO OR UNDERNEATH POWER LINES SHALL MEET THE REQUIREMENTS OF WAC 296-24-960.
  2. POWER WIRES ARE LOCATED JUST INSIDE (SOUTH SIDE OF MARINE DR) THE CONSTRUCTION LIMITS AREA. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN MOBILIZED ADJACENT TO OR DIRECTLY BELOW POWER LINES, PARTICULARLY WHEN USING EQUIPMENT WITH EXTENDED BOOM OR BUCKET. SNOHOMISH PUBLIC UTILITY DISTRICT REQUIRES MINIMUM CLEARANCE FROM EACH POWER LINE OF 15 FT RADIUS.
  3. HEIGHT OF POWER LINE IS LOWEST AT APPROXIMATELY THE CENTER OF SPAN WHERE SAG IS GREATEST. SAG MAY INCREASE DURING WINDY OR VARYING CLIMATE CONDITIONS.
  4. SEE EASEMENT AND PERMIT AGREEMENTS IN THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  5. SAFETY WATCH. THE CONTRACTOR SHALL ENTER INTO AN AGREEMENT WITH SNOHOMISH COUNTY PUBLIC UTILITY DISTRICT NO. 1 FOR A SAFETY WATCH FOR ALL WORK PERFORMED WITHIN 15 FT OF POWER LINES. ALL COSTS ASSOCIATED WITH THE SAFETY WATCH SHALL BE BORNE BY THE CONTRACTOR.
  6. IN CASE OF EMERGENCY, CALL SNOHOMISH COUNTY PUBLIC UTILITY DISTRICT AT 425-783-1000 TO DISPATCH A QUALIFIED ELECTRICAL WORKER.



**1\"/>**

- APPROVED METER BOX**
1. 13" X 24" X 18" DEEP RPM METER BOX WITH MOUSEHOLES 20K RATED A6001946PCX12 ARMORCAST.
  2. 13" X 24" RPM COVER WITH HINGED CI READER LID & TOUCH READ HOLE 10K RATED MARKED "WATER METER" A6001866RCI-H7 ARMORCAST.
  3. 13" X 24" DI METER BOX COVER WITH MAX VIEW READER AND AMR HOLE FULL SKIRT 13244301 CARSON.
  4. 13" X 24" X 12" HEAVYWALL METER BOX WITHOUT MOUSE HOLES 13242510 CARSON

- NOTES:**
1. STAINLESS STEEL INSERTS REQUIRED FOR ALL PACK JOINTS AND GRIP.
  2. ALL SERVICE SADDLES AND FITTINGS SHALL HAVE I.P. THREADS.



REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			DRAWN Y. MAHMOODI
			CHECKED J. WRIGHT
			APPROVED H. LONGFELLOW

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY  
 FILE NAME: PS1598158-PH1-DT1  
 JOB No.: 216-1598-158  
 DATE: MAY 2024



05-21-2024

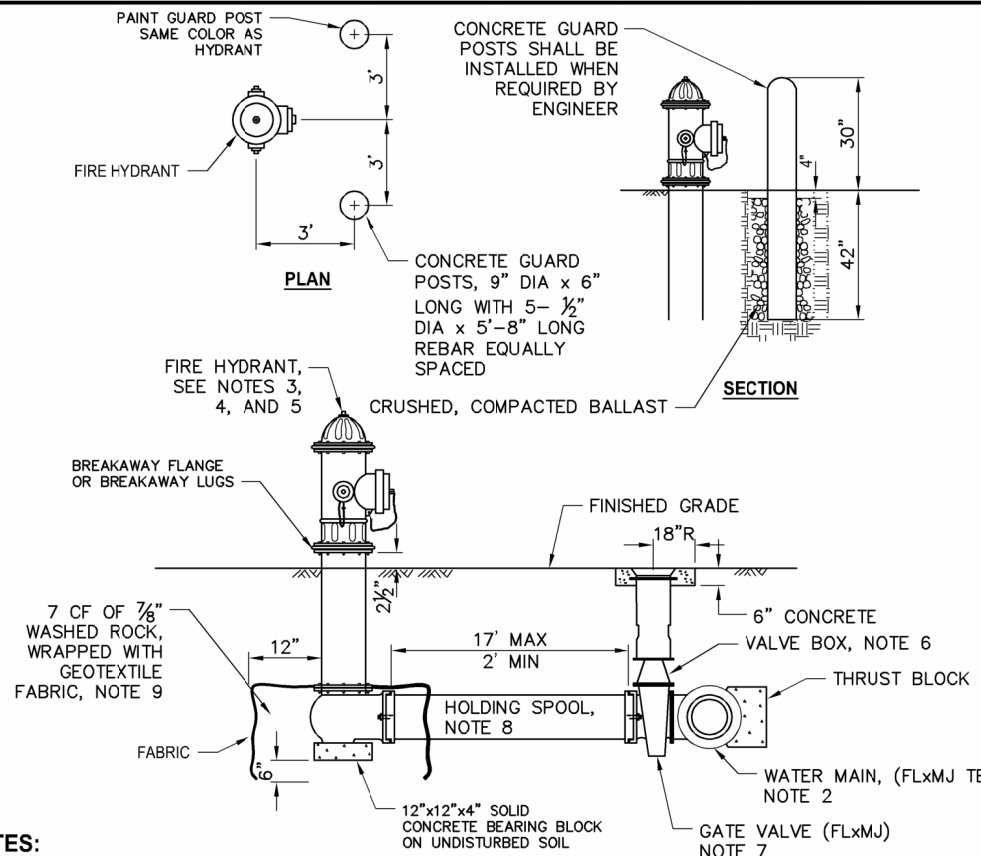
**ParametriX**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES TULALIP BAY WATER SYSTEM IMPROVEMENTS - PHASE 1 PROJECT**  
 TULALIP WASHINGTON

**WATER DETAILS**

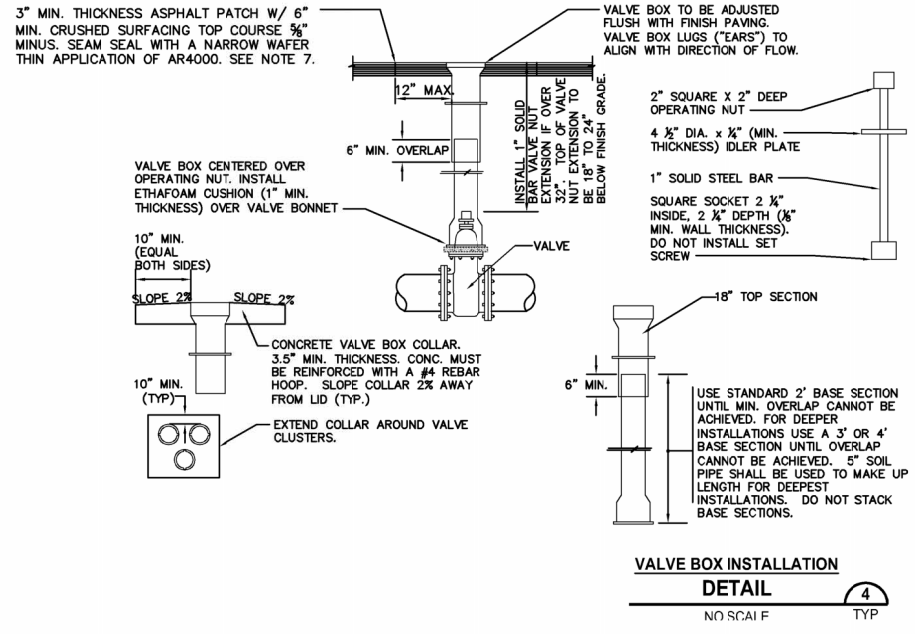
DRAWING NO. 22 OF 25  
**DT1**

LAYOUT: DTZ  
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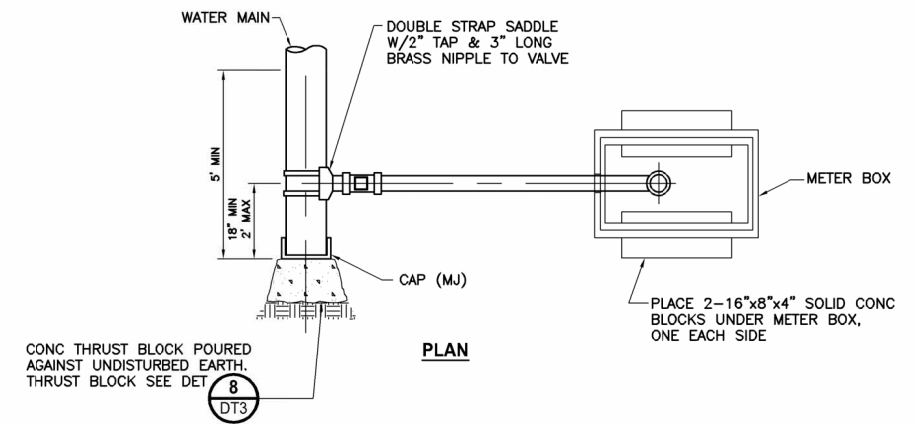
- NOTES:**
- ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED OR APPROVED EQUAL.
  - WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" IN IMPROVED RIGHT-OF-WAY, AND A MINIMUM 48" IN UNIMPROVED RIGHT-OF-WAY AND EASEMENTS.
  - THE FIRE HYDRANT AND CONCRETE GUARD POSTS SHALL BE PAINTED, RUST-OLEUM SAFETY YELLOW #7543 (TWO COATS) OR AN APPROVED EQUAL.
  - FIRE HYDRANTS SHALL HAVE TWO 2½" HOSE PORTS (NATIONAL STANDARD THREAD) WITH CAPS AND CHAINS AND ONE 4½" PUMPER PORT (TACOMA STEAMER PORT THREAD, STEAMER PORT SHALL FACE THE STREET), 1¼" PENTAGONAL OPERATING NUT (COUNTER-CLOCKWISE OPENING), O-RING TYPE STUFFING BOX, AUTOMATIC BARREL DRAINS AND 5¼" MAIN VALVE OPENING. HYDRANTS SHALL BE DESIGNED IN A MANNER THAT WILL PREVENT BARREL BREAKAGE WHEN STRUCK BY A VEHICLE. HYDRANTS SHALL CONFORM TO THE LATEST REVISION OF AWWA SPECIFICATIONS NO. C 502-73 FOR FIRE HYDRANTS FOR ORDINARY WATER SERVICE. FIRE HYDRANTS SHALL INCLUDE THE ENTIRE ASSEMBLY COMPLETE, INCLUDING HYDRANT, GATE VALVE AND BOX, CONNECTING PIPING FITTINGS AND ACCESSORIES.
  - FIRE HYDRANTS SHALL BE M&H, MUELLER CENTURION OR APPROVED EQUAL MEETING REQUIREMENTS OF ANSI/AWWA C502.
  - VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE VANRICH #940 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN RELIEF IN THE TOP.
  - GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, RESILIENT SEATED WEDGE GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED BRONZE-MOUNTED, NON-RISING STEM, COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT BY FLANGED. VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE MUELLER, M&H, OR APPROVED EQUAL.
  - THE HOLDING SPOOL SHALL BE A MECHANICAL-JOINT (MJ) HOLDING SPOOL, WITH THE USE OF CLASS 53 DUCTILE IRON PIPE OR THE USE OF LUG STYLE PIPE RESTRAINT CONNECTORS WITH CLASS 53 DUCTILE IRON PIPE (ROMAC ROMAGRIP OR APPROVED EQUAL). EBAA IRON FITTINGS ARE NOT ALLOWED TO BE USED ON THIS PROJECT.
  - IF DISTANCE BETWEEN WATER MAIN AND FIRE HYDRANT IS GREATER THAN 17 FEET, RESTRAINED JOINTS ARE REQUIRED FOR EACH ADDITIONAL JOINT. MAXIMUM HYDRANT RUN ALLOWED IS 50 FEET.
  - THE CONTRACTOR SHALL PLACE A 6 OZ. GEOTEXTILE FABRIC AROUND THE WASHED ROCK AREA. ENDS TO OVERLAP.
  - A FLUORESCENT ORANGE BAG MUST COVER AND BE SECURED TO THE FIRE HYDRANT UNTIL APPROVED FOR USE BY TULALIP TRIBE PUBLIC WORKS.

**HYDRANT ASSEMBLY**  
**DETAIL 3**  
 NO SCALE TYP



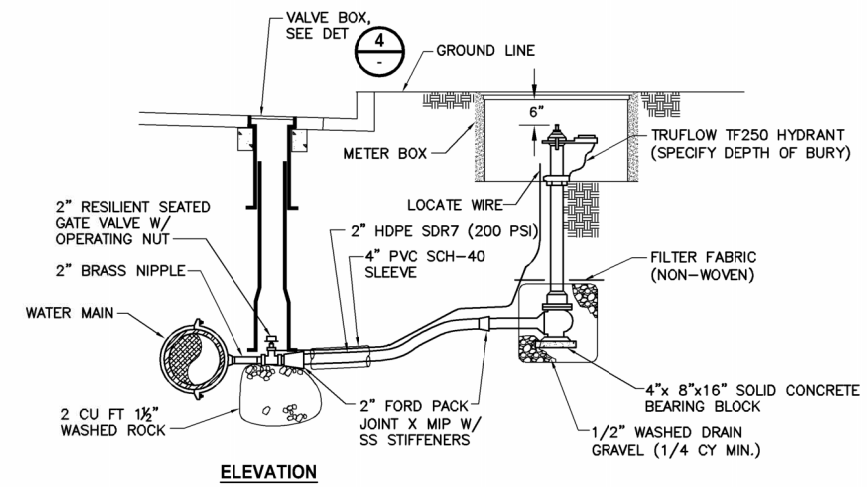
**VALVE BOX INSTALLATION**  
**DETAIL 4**  
 NO SCALE TYP

- NOTES:**
- VALVE BOX TO BE 045/046 - SEATTLE/TACOMA TOP AND LID.
  - VALVE BOX LIDS TO BE 4" DEEP IN TRAFFIC AREAS AND A MIN. OF 3" IN OTHER LOCATIONS. LOCKING VALVE BOX LIDS (AMPRO STYLE 940) REQUIRED IF LIDS WILL NOT STAY PUT DUE TO TRAFFIC.
  - SAWCUT VALVE BOX COMPONENTS. BROKEN OR JAGGED VALVE BOX SECTIONS NOT ACCEPTABLE.
  - OVERLAY ADJUSTMENT RINGS NOT ALLOWED, UNLESS APPROVED TUA.
  - VALVE BOX COLLARS REQUIRED IF VALVE BOX OUT OF PAVING. COLLARS TO BE FLUSH WITH FINISH SURFACE. SLOPE COLLARS AWAY FROM LID @ 2% (TYP.)
  - VALVE BOX COLLAR REQUIRED WHEN VALVE BOX OUTSIDE OF PAVING.
  - VALVE BOXES SHALL BE ADJUSTED AFTER PAVING AND PATCHED AS SHOWN ABOVE. VALVES CONNECTED TO THE EXISTING SYSTEM SHALL BE MADE ACCESSIBLE AT ALL TIMES.



**END OF MAIN 2" BLOWOFF ASSEMBLY**  
**DETAIL 8**  
 NO SCALE TYP

- NOTES:**
- BLOWOFF HYDRANTS SHALL BE NON-FREEZING, SELF-DRAINING TYPE.
  - SET UNDERGROUND IN APPROVED 17"x30" CARSON OR 16"x31" OLYMPIC FOUNDRY METER BOX, THESE HYDRANTS WILL BE FURNISHED WITH A 2" FIP INLET, AND BE SERVICEABLE FROM ABOVE GRADE WITHOUT DIGGING.
  - THE OUTLET SHALL ALSO BE BRONZE AND BE 2-1/2" NST.
  - HYDRANTS SHALL BE LOCKABLE TO PREVENT UNAUTHORIZED USE.
  - TRACER WIRE SHALL BE 10 GAUGE INSULATED SOLID CORE COPPER WIRE. STRIP 6" OF INSULATION OFF END A. STRIP 12" OF INSULATION OFF END B AND WRAP AROUND SADDLE ASSEMBLY BOLT.
  - ANY BLOWOFF ON A DEAD END MAIN SHALL BE 18" MIN 24" MAX FROM END OF MAIN PIPE.
  - METER BOX AND HYDRANT SHALL BE INSTALLED OUTSIDE OF CONCRETE AND PAVED SURFACES.



**END OF MAIN 2" BLOWOFF ASSEMBLY**  
**DETAIL 5**  
 NO SCALE TYP

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			Y. MAHMOODI
			J. WRIGHT
			H. LONGFELLOW

ONE INCH AT FULL SCALE, IF NOT, SCALE ACCORDINGLY

FILE NAME: PS1598158-PH1-DT1

JOB No.: 216-1598-158

DATE: MAY 2024



05-21-2024

**Parametrix**

1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME

**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT  
 TULALIP WASHINGTON**

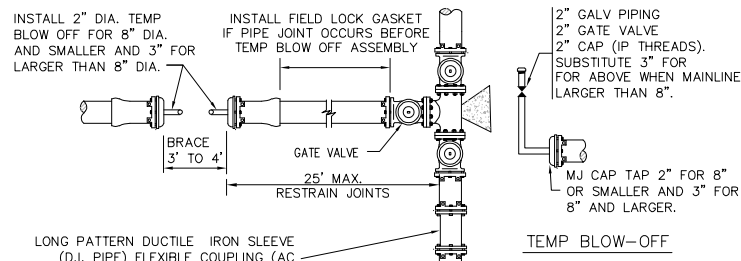
**WATER DETAILS**

DRAWING NO.  
 23 OF 25

**DT2**



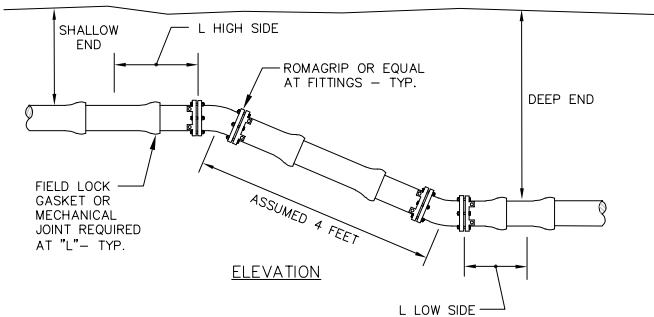
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 PLOTTED BY: betzlyph DATE: Tuesday, May 21, 2024 4:38:57 PM



- NOTES:**
- TAPPED CONNECTIONS NOT ALLOWED WITHOUT SPECIFIC APPROVAL FROM TUA.
  - NO CONNECTION WILL BE ALLOWED UNTIL ALL PRESSURE TESTING COMPLETED, AND SATISFACTORY BACTERIOLOGICAL TEST RECEIVED. SEE CROSS CONNECTION CONTROL SECTION IN SPECIFICATIONS.
  - TAPPING SLEEVE TO BE STAINLESS STEEL FOR AC PIPE AND EPOXY COATED STEEL FOR DUCTILE OR CAST IRON PIPE. CLOSEST EDGE OF TAPPING SLEEVE MUST BE 3" (MIN.) FROM COUPLING ON AC PIPE.
  - SEE DETAILS FOR VALVE BOX, THRUST BLOCKING, PIPE AND FITTING RESTRAINT REQUIREMENTS.
  - BACKFILL PER JURISDICTIONAL REQUIREMENTS WHEN IN ASPHALT. ALL OTHER AREAS PER THE STANDARD SPECIFICATIONS.
  - TEMP BLOW OFF'S MUST BE PROTECTED FROM DAMAGE. PLACE IN TRAFFIC BOX IF REQUIRED.
  - WATER OUTAGE ONLY ALLOWED TUESDAY THROUGH THURSDAY 9:00AM TO 3:00PM. (7) WORKING DAYS NOTICE REQUIRED.
  - ALL MJ JOINTS TO BE ROMAC OR EQUAL.
  - SIMILAR TEMP B.O. REQUIREMENTS FOR TAPPED CONNECTIONS. LOCATE BLOW OFF OUT OF ASPH. WHEN POSSIBLE.
  - ALL FITTINGS AND PIPE SHALL BE STERILE SWABBED. CONNECTION SHALL BE INSPECTED FOR VISUAL LEAKAGE UNDER FULL LINE PRESSURE PRIOR TO BACKFILL.

**CONNECTION REQUIREMENTS  
DETAIL 6**

NO SCALE TYP

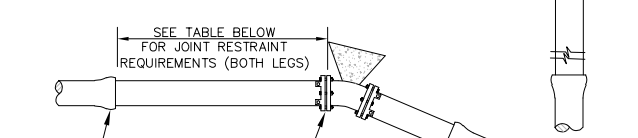
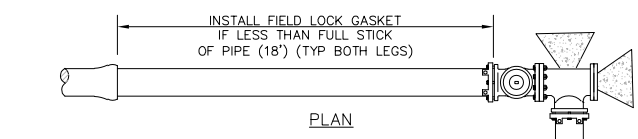
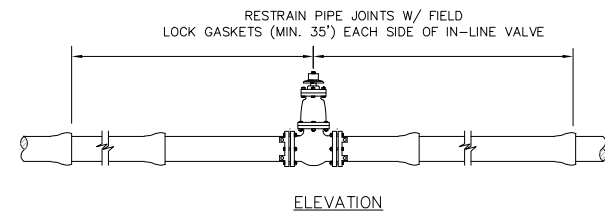


PIPE SIZE	45'		22.5'		11.25'	
	HIGH SIDE	LOW SIDE	HIGH SIDE	LOW SIDE	HIGH SIDE	LOW SIDE
4"	56	26	26	12	12	5
6"	80	37	37	17	16	7
8"	104	49	49	22	23	10

- NOTES:**
- RESTRAINED LENGTH SHALL BE ADJUSTED IF CONDITIONS DIFFER FROM ASSUMPTIONS.
  - IF RESTRAINED LENGTH SHOWN IS NOT ACHIEVABLE, THRUST BLOCKS SHALL ALSO BE USED. CONTACT DISTRICT FOR THRUST BLOCKING DETAIL.
  - ALL PIPE BETWEEN VERTICAL BENDS SHALL BE RESTRAINED.
  - RESTRAINED LENGTHS CAN BE ADJUSTED WITH SITE SPECIFIC SOILS INFORMATION, ENGINEER DESIGN AND DISTRICT APPROVAL.
  - 90° VERTICAL BENDS ARE NOT ALLOWED.
  - MULTIPLE FITTINGS IN MULTIPLE PLANES SHALL BE DESIGNED AND STAMPED ON AN INDIVIDUAL BASIS BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WASHINGTON.
- ASSUMPTIONS:**
- TEST PRESSURE 250 PSI.
  - LAYING CONDITION 3.
  - SAND-SILT SOIL DESIGNATION.
  - SHALLOW END COVER ON 4", 6" & 8" DIA. AT 3 FEET.
  - LENGTH BETWEEN FITTINGS ASSUMED TO BE 4 FEET SO KNOWN LENGTH IS 2 FEET.
  - SAFETY FACTOR 1.5
  - VALUES DEVELOPED WITH DIPRA THRUST RESTRAINT CALCULATOR.

**VERTICAL BEND RESTRAINT  
DETAIL 9**

NO SCALE TYP



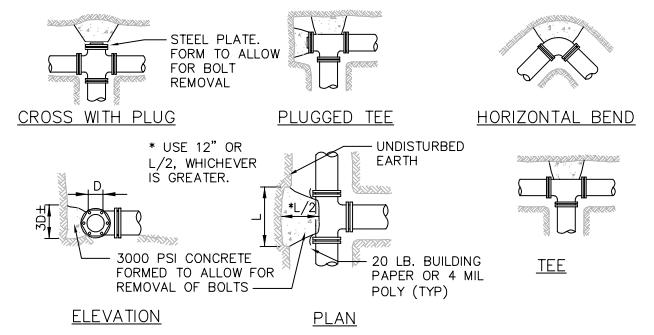
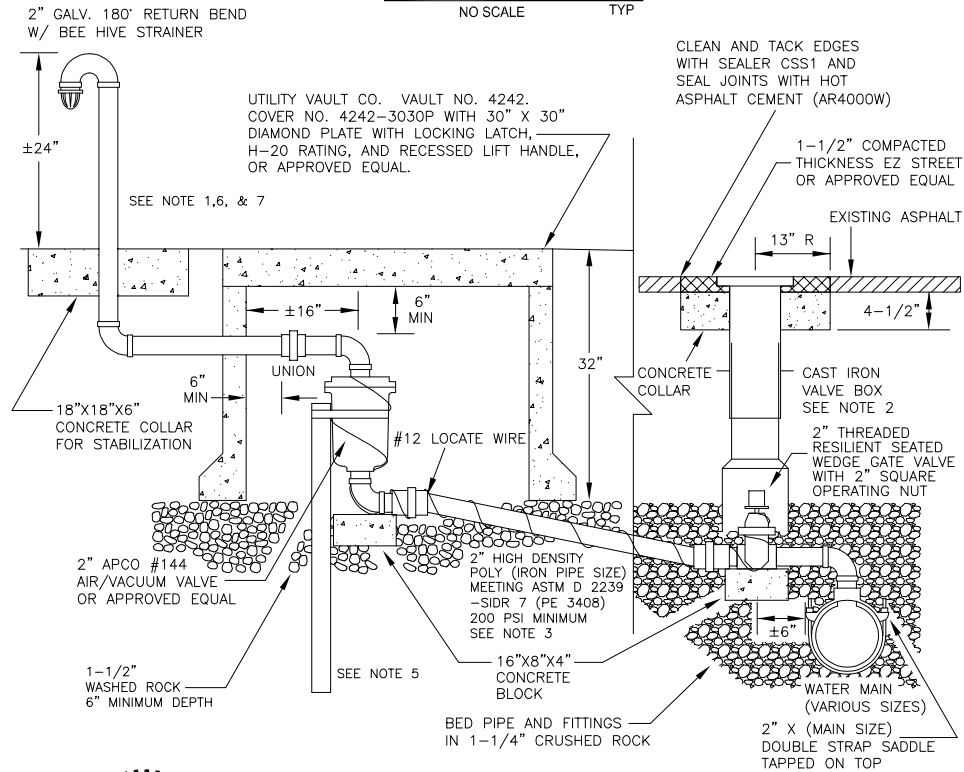
PIPE SIZE	TEE OR PLUG	90°	45°	22.5°	11.25°
4"	70	34	14	7	3
6"	99	48	20	10	5
8"	128	61	25	12	6

- NOTES:**
- RESTRAINED LENGTH SHALL BE ADJUSTED IF CONDITIONS DIFFER FROM ASSUMPTIONS.
  - IF RESTRAINED LENGTH SHOWN IS NOT ACHIEVABLE, THRUST BLOCKS SHALL ALSO BE USED. SEE DETAIL 8 THIS SHEET.
  - RESTRAINED LENGTHS CAN BE ADJUSTED WITH SITE SPECIFIC SOILS INFORMATION, ENGINEER DESIGN AND TUA APPROVAL.
  - MULTIPLE FITTINGS IN MULTIPLE PLANES SHALL BE DESIGNED AND STAMPED ON AN INDIVIDUAL BASIS BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WASHINGTON.
  - LUG STYLE PIPE RESTRAINT (ROMAC ROMAGRIP OR APPROVED EQUAL) SHALL BE INSTALLED ON ALL MECHANICAL JOINTS. EBAA IRON FITTINGS ARE NOT ALLOWED TO BE USED ON THIS PROJECT.

- ASSUMPTIONS:**
- TEST PRESSURE 250 PSI.
  - LAYING CONDITION 3.
  - SAND-SILT SOIL DESIGNATION.
  - COVER ON 6" & 8" DIA. AT 3 FEET.
  - SAFETY FACTOR 1.5
  - VALUES DEVELOPED WITH DIPRA THRUST RESTRAINT CALCULATOR.

**PIPE AND FITTING  
RESTRAINT REQUIREMENTS  
DETAIL 7**

NO SCALE TYP



**THRUST BLOCK TABLE**

PIPE SIZE	TEE OR END PLUG	90°	45°	22 1/2°	11 1/4°
4" OR 6"	3	4	2	2	2
8"	6	7	4	2	2
12"	12	16	9	5	3
16"	21	29	16	8	4

- NOTES:**
- BEARING AREA OF CONC. THRUST BLOCK BASED ON 200 PSI PRESSURE AND SOIL BEARING LOAD OF 2000 POUNDS PER SQUARE FOOT.
  - AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPES, PRESSURES AND SOIL CONDITIONS.
  - CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 1/2 SQUARE FOOT BEARING AGAINST THE FITTING. SIDES SHALL BE FORMED WITH PLYWOOD OR EQUIVALENT.
  - THRUST BLOCK SHALL BEAR AGAINST FITTING ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT DISMANTLING OF JOINTS.
  - CONCRETE TO BE 3000 PSI MINIMUM. PRE-MIX CONCRETE IS PREFERRED. IF CONCRETE IS HAND MIXED THE PROPORTIONS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. COMPRESSIVE TESTS OF "HAND MIXED" CONCRETE MAY BE REQUIRED. PRE-INSPECTION OF BLOCKING AREA REQUIRED PRIOR TO PLACEMENT OF CONCRETE.
  - CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
  - SEE DETAIL NO. 7 FOR PIPE AND FITTING RESTRAINT REQUIREMENTS.

**THRUST BLOCKING DETAIL  
DETAIL 8**

NO SCALE TYP

- NOTES:**
- ALL FITTINGS FROM THE WATER MAIN TO THE BOTTOM OF THE AIR/VACUUM VALVE SHALL BE BRASS. ALL FITTINGS ABOVE THE AIR/VACUUM VALVE SHALL BE GALVANIZED STEEL. WRAP GALVANIZED PIPE BELOW GROUND WITH 3M TAPE OR EQUAL TO 1" ABOVE GROUND LEVEL.
  - VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECE (IF NECESSARY). VALVE BOX TO BE 045/046 - SEATTLE/TACOMA TOP AND LID. THE WORD "WATER" SHALL BE CAST IN RELIEF IN THE TOP.
  - 2" HIGH DENSITY POLY PIPE SHALL MAINTAIN A MINIMUM ONE-DEGREE RISE FROM THE WATER MAIN TO THE AIR/VACUUM VALVE.
  - AIR/VACUUM VALVE VAULT AND VENT RISER TO BE INSTALLED OUT OF THE STREET. EXACT LOCATION TO BE DETERMINED BY THE OWNER'S REPRESENTATIVE.
  - TO STABILIZE AIR/VACUUM VALVE, BURY 2" GALVANIZED PIPE ALONG SIDE VALVE. SECURE WITH STAINLESS STEEL STRAP. SET TOP OF GALVANIZED PIPE 2" BELOW AIR/VACUUM FLANGE.
  - VENT RISER AND RETURN BEND SHALL BE PAINTED, RUST-OLEUM SAFETY YELLOW #7543 OR APPROVED EQUAL.
  - IF NEW PLAT, INCLUDE EASEMENT BEHIND SIDEWALK FOR VENT RISER. VENT RISER SHALL BE NO MORE THAN 2' BEHIND SIDEWALK.

**2" COMBINATION AIR RELEASE / VACUUM VALVE ASSEMBLY  
DETAIL 10**

NO SCALE TYP

REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			Y. MAHMOODI
			J. WRIGHT
			H. LONGFELLOW

**ONE INCH AT FULL SCALE.  
IF NOT, SCALE ACCORDINGLY.**

FILE NAME  
PS1598158-PH1-DT1

JOB No.  
216-1598-158

DATE  
MAY 2024



05-21-2024

**Parametrix**  
 1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
 Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
 TULALIP BAY WATER SYSTEM  
 IMPROVEMENTS - PHASE 1 PROJECT**  
 TULALIP WASHINGTON

**WATER DETAILS**

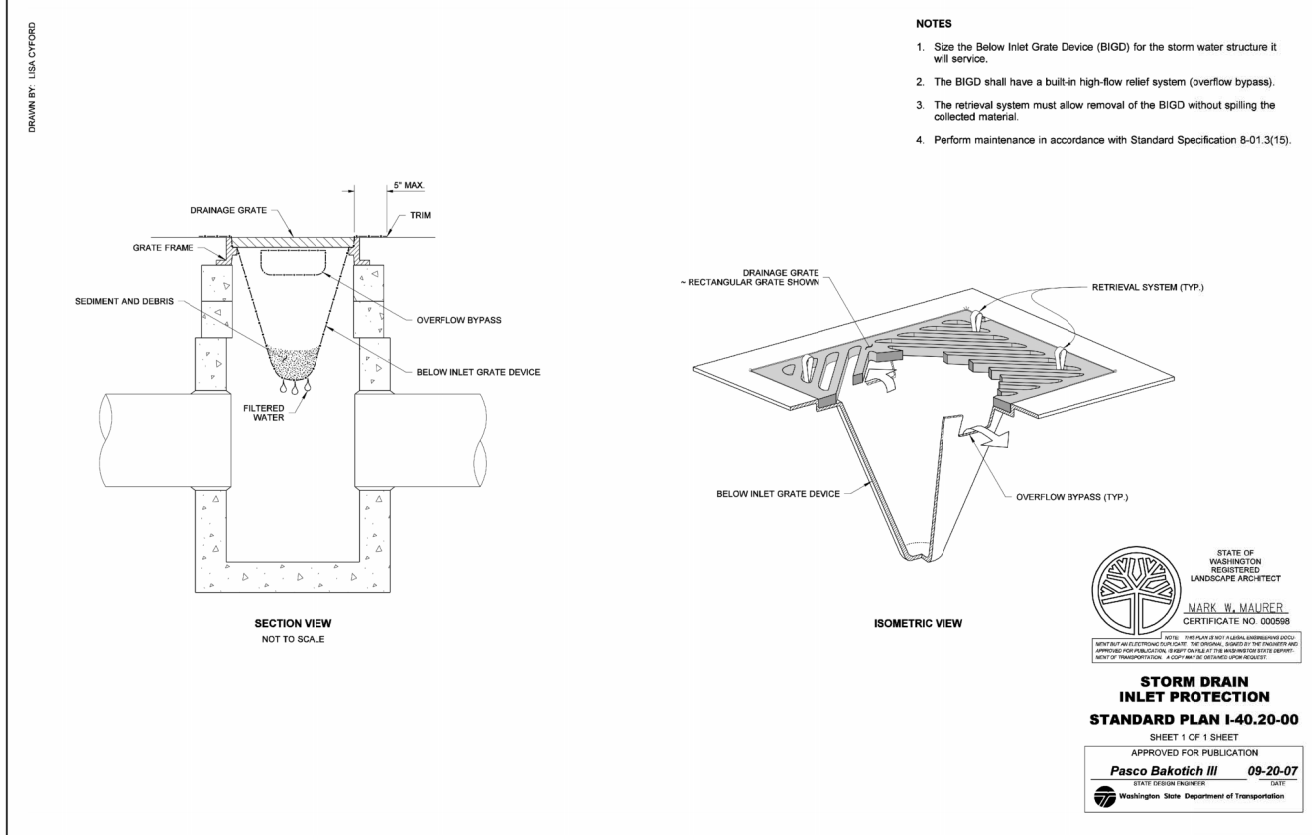
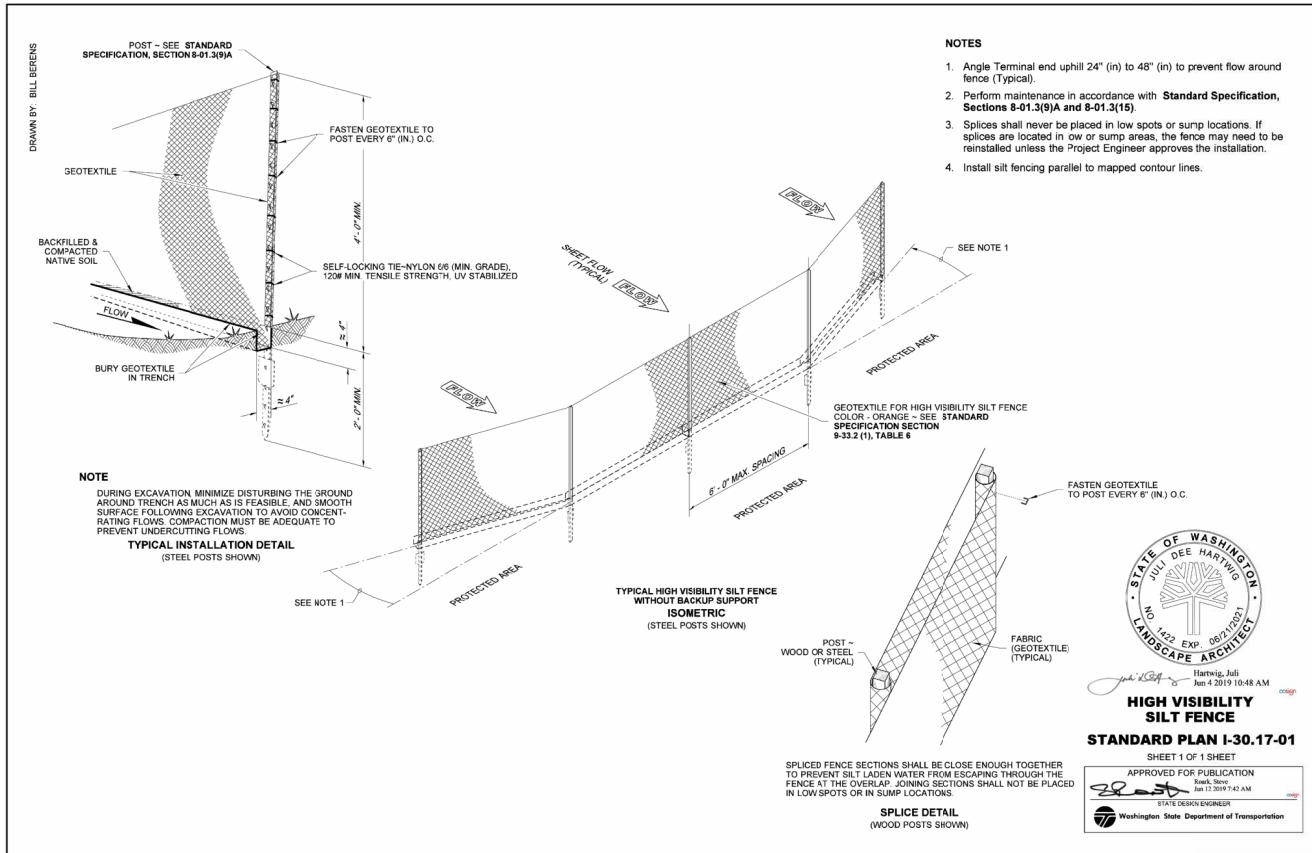
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**DT3**





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 LAYOUT: DT4  
 DRAWN BY: USA CYRINO  
 PLOTTED BY: batzjph DATE: Tuesday, May 21, 2024 3:42:21 PM



**EROSION/SEDIMENTATION CONTROL NOTES**

1. CONTRACTOR SHALL SUBMIT A TEMPORARY WATER POLLUTION/EROSION CONTROL PLAN PER THE CONTRACT PROVISIONS.
2. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION SHALL BE OBSERVED DURING CONSTRUCTION.
3. ALL REQUIRED SEDIMENTATION/EROSION CONTROL FACILITIES SHALL BE IN OPERATION PRIOR TO LAND CLEARING AND/OR OTHER CONSTRUCTION ACTIVITIES TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE EXISTING DRAINAGE SYSTEM. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT AND ADDITIONS TO EROSION/SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE EROSION AND SEDIMENTATION CONTROL SYSTEMS DEPICTED ON THIS DRAWING ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND AS UNEXPECTED OR SEASONAL CONDITIONS DICTATE, THE CONTRACTOR SHOULD ANTICIPATE THAT MORE EROSION AND SEDIMENTATION CONTROL FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE PROPOSED SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES AND THE WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM.
5. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF THE SEDIMENT. ALL STORM DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE CLEANED AFTER COMPLETION OF THE PROJECT.
6. THE CONTRACTOR SHALL REMOVE MATERIAL DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE RIGHT-OF-WAY OR INTO THE EXISTING STORM DRAINAGE SYSTEM. DEBRIS SHALL NOT BE WASHED INTO THE STORM DRAINAGE SYSTEM.
7. TEMPORARY EROSION CONTROL FACILITIES SHALL BE INSPECTED WEEKLY AND MAINTAINED WITHIN 24 HOURS FOLLOWING A STORM EVENT. SEDIMENT SHALL BE REMOVED TO INSURE THE FACILITIES WILL FUNCTION PROPERLY. THE FACILITIES SHALL BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
8. ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORM WATER RUNOFF SHALL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
9. NO DISTURBED SOIL SHALL REMAIN UNSTABILIZED FOR MORE THAN SEVEN CALENDAR DAYS.



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REVISIONS	DATE	BY	DESIGNED
			Y. MAHMOODI
			Y. MAHMOODI
			J. WRIGHT
			H. LONGFELLOW

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216-1598-158

DATE  
MAY 2024



05-21-2024

**ParametriX**  
1019 39th Avenue SE, Suite 100 • Puyallup, WA 98374  
Ph: 253.604.6600

PROJECT NAME  
**THE TULALIP TRIBES  
TULALIP BAY WATER SYSTEM  
IMPROVEMENTS - PHASE 1 PROJECT  
TULALIP WASHINGTON**

**TESC DETAILS**

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25 OF 25

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