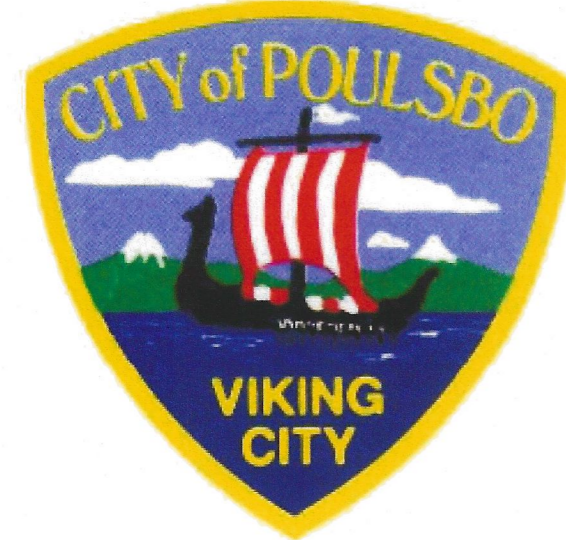




In Partnership with City of Poulsbo



JOHNSON TO NORUM SEWER MAIN REPLACEMENT

MARCH 2024

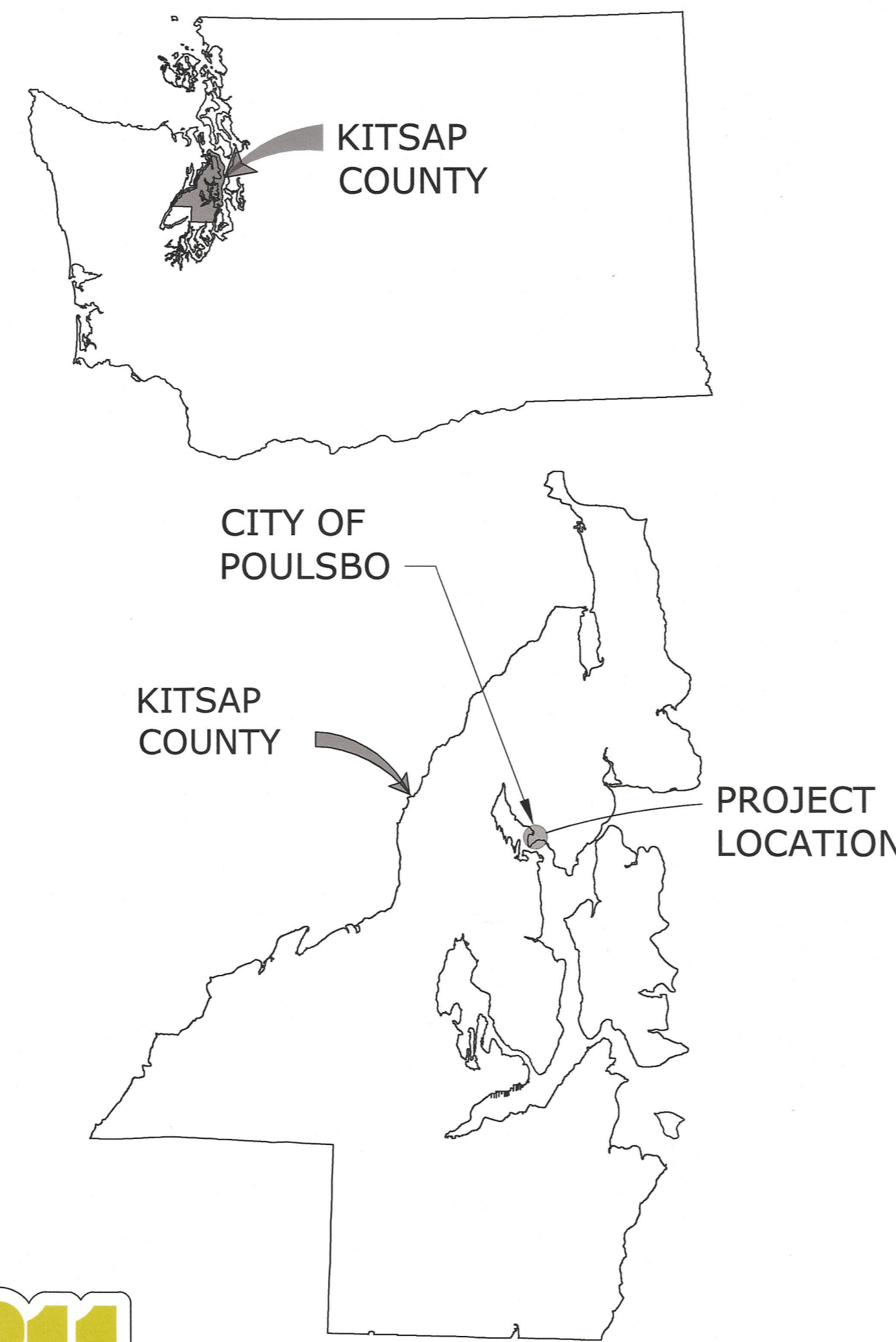
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LOCATION MAPS

NTS



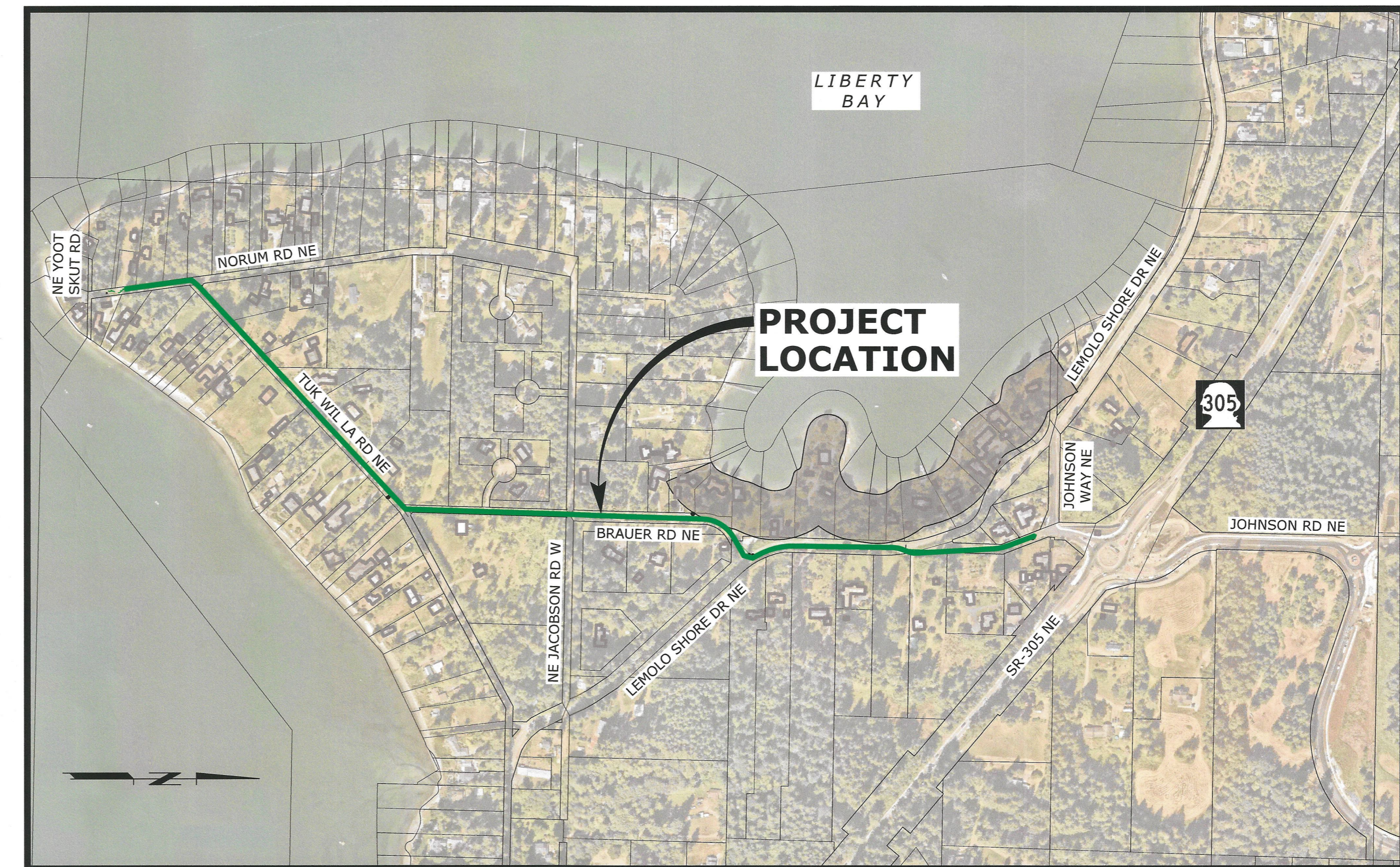
COUNTY COMMISSIONERS

CHRISTINE ROLFES - DISTRICT #1
 CHARLOTTE GARRIDO - DISTRICT #2
 KATIE WALTERS - DISTRICT #3

APPROVED BY

3/10/2024
 DATE
 Andrew B. Nelson, P.E.
 DIRECTOR OF PUBLIC WORKS

3/10/24
 DATE
 J.P. [Signature]
 COUNTY ROAD ENGINEER



VICINITY MAP

SCALE: 1"=400'



Know what's below.
 Call before you dig.



3/5/2024

PLAN SET IS INTENDED TO BE PRINTED IN COLOR

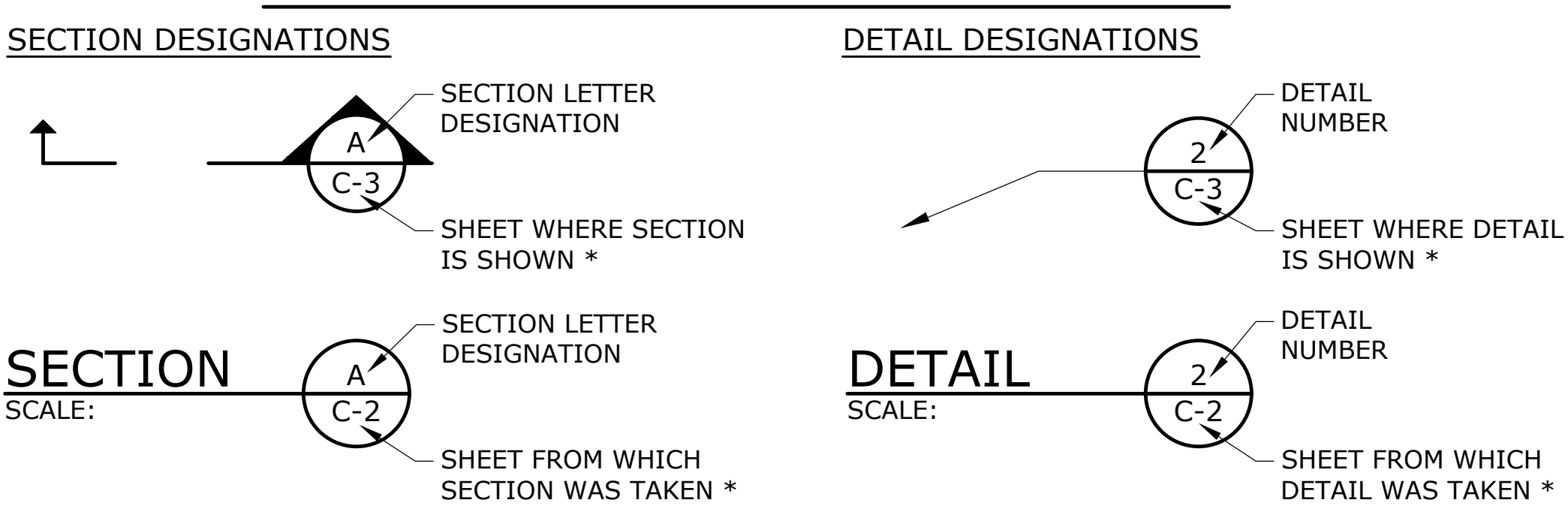
ABBREVIATIONS

ABAND	ABANDONED	LF	LINEAR FOOT	W	WATER, WEST
AL	ALUMINUM	LS	LONG BODY SLEEVE	WAS	WASTE ACTIVATED SLUDGE
APPROX	APPROXIMATE	LT	LEFT	W.M.	WESTERN MERIDIAN
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	LTF	LENGTH TO FIT	WS	WATER SERVICE
ASSY	ASSEMBLY			WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MAG	MAGNETIC NAILS	WWTP	WASTE WATER TREATMENT PLANT
		MAX	MAXIMUM	WV	WATER VALVE
ATB	ASPHALT TREATED BASE	MFR	MANUFACTURER		
AVE	AVENUE	MH	MANHOLE	#S	#-INCH STRAND (FIBER OPTIC)
AWWA	AMERICAN WATER WORKS ASSOCIATION	MJ	MECHANICAL JOINT		
		MIN	MINIMUM		
B&B	BALLED AND BURLAP	MON	MONUMENT		
BFG	BELOW FINISHED GRADE				
BLDG	BUILDING	N	NORTH		
BMP	BEST MANAGEMENT PRACTICE	NE	NORTHEAST		
BOW	BACK OF WALK	NIC	NOT IN CONTRACT		
BP	BURIED POWER	NOM	NOMINAL		
BTM	BOTTOM	NPT	NATIONAL PIPE THREAD		
BT	BURIED TELEPHONE	NTS	NOT TO SCALE		
		NW	NORTH WEST		
C/L	CENTERLINE	O.C.	ON CENTER		
CB	CATCH BASIN	OD	OUTSIDE DIAMETER		
CDF	CONTROLLED DENSITY FILL	OH	OVERHEAD		
CF	CUBIC FEET	OHP	OVERHEAD POWER		
CIPP	CURED-IN-PLACE PIPE	OHW	OVERHEAD WIRE		
CL	CENTERLINE	OP	OVERHEAD POWER		
CLR, CLEAR	CLEARANCE	PE	PLAIN END		
CMP	CORRUGATED METAL PIPE	PG	PERFORMANCE GRADE		
COMM	COMMUNICATIONS	PH	POTHOLE		
COORD	COORDINATE	PL	PLASTIC		
CONC	CONCRETE	POC	POINT OF CONNECTION		
COUNTY	KITSAPO COUNTY	PS	PUMP STATION		
CPLG	COUPLING	PSE	PUGET SOUND ELECTRIC		
CSBC	CRUSHED SURFACE BASE COURSE	PVC	POLYVINYL CHLORIDE		
CSTC	CRUSHED SURFACING TOP COURSE	PWR	POWER		
CY	CUBIC YARD				
		RESTR	RESTRAIN(ED)		
DEG	DEGREE	REQ'D	REQUIRED		
DEMO	DEMOLISH	RD	ROAD		
DET	DETAIL	RFCA	RESTRAINED FLANGE COUPLING ADAPTER		
DI	DUCTILE IRON	RJ	RESTRAINED JOINT PIPE		
DIA	DIAMETER	RSGV	RESILIENT SEATED GATE VALVE		
D/W	DRIVEWAY	RT	RIGHT		
DR	DIMENSION RATIO	R/W, ROW	RIGHT OF WAY		
DWG	DRAWING				
		S	SOUTH		
E	EAST	SCHED	SCHEDULE		
EA	EACH	SD	STORM DRAIN		
ECO	ECOLOGY	SDMH	STORM MANHOLE		
EL	ELEVATION	SDR	STANDARD DIMENSION RATIO		
ELEC	ELECTRICAL	SERV	SERVICE		
EQ	EQUAL	SHT(S)	SHEET(S)		
ESC	EROSION AND SEDIMENT CONTROL	SL	SLOPE		
ESMT	EASEMENT	SLV	SLEEVE		
EX	EXISTING	SMFO	SINGLE MODE FIBER OPTIC		
EXIST	EXISTING	SP	SPECIAL PROVISIONS		
		SPEC(S)	SPECIFICATIONS		
FH	FIRE HYDRANT	SPL	SPOOL		
FIN	FINISHED	SQ	SQUARE		
FLG	FLANGE	SS	SANITARY SEWER		
FM	FORCE MAIN	SSCO	SANITARY SEWER CLEANOUT		
FO	FIBER OPTICS	SSFM	SANITARY SEWER FORCE MAIN		
FT	FEET	SSMH	SANITARY SEWER MANHOLE		
		SSO	SANITARY SEWER OVERFLOW		
G	GAS	SST	STAINLESS STEEL		
GA	GAUGE	ST	STREET		
GALV	GALVANIZED	STA	STATION		
GC	GROUND COVER	STD	STANDARD		
GEN	GENERAL	STL	STEEL		
GPS	GLOBAL POSITIONING SYSTEM	SW	SOUTHWEST		
GR	GRADE	S/W	SIDEWALK		
GV	GATE VALVE				
		T, TE, TEL	TELEPHONE		
HDPE	HIGH DENSITY POLYETHYLENE (PIPE)	TB	THRUST BLOCK		
HMA	HOT MIX ASPHALT	TEMP	TEMPORARY		
HORIZ	HORIZONTAL(LY)	TESC	TEMPORARY EROSION AND SEDIMENT CONTROL		
HP	HIGH PRESSURE	TN	TOP OF NUT		
HWY	HIGHWAY	TRANS	TRANSITION		
		TYP	TYPICAL		
ID	INSIDE DIAMETER	UGP	UNDERGROUND POWER LINE		
IE	INVERT ELEVATION	UV	ULTRAVIOLET		
INSTL	INSTALL				
INV	INVERT				
IPS	INDIVIDUAL PUMP STATION				
		VAR	VARIES		
JUNCT	JUNCTION	VERT	VERTICAL(LY)		
L	LENGTH				

SYMBOLS & LEGEND

	EXISTING	PROPOSED	EXISTING	PROPOSED
WATERLINE			MANHOLE	
OVERHEAD POWER			CLEAN-OUT	
BURRIED POWER			CATCH BASIN/FIELD INLET	
GAS			TYPE 2 CATCH BASIN	
BURIED TELEPHONE			CULVERT	
BURIED COMMUNICATIONS			FLOW DIRECTION	
FIBER OPTICS			CAP	
SANITARY SEWER LINE			VALVE	
SANITARY SEWER FORCE MAIN			BLOW-OFF ASSEMBLY	
STORM DRAIN			AIR/VAC ASSEMBLY	
DITCH			COMPOST SOCK	
REMOVE/ABANDON PIPE			CATCH BASIN INSERT	
DEMOLITION			FILTER FABRIC FENCE	
EASEMENT/PROPERTY LINE			SURVEY BENCHMARK	
STRUCTURE OR FACILITY			SEWER FACILITY/PIPING (RESTRAINED FOR ALL PRESSURE PIPE) FLANGE FITTING	
RESTORATION			MECHANICAL JOINT FITTING (RESTRAINED FOR ALL PRESSURE PIPE)	
SHEET PILES			FLEXIBLE COUPLING	
TOP/TOE OF SLOPE			BALL VALVE	
EDGE OF GRAVEL			THRUST BLOCK	
EDGE OF PAVEMENT				
FENCE				
GUARD RAIL				
CONTROLLED DENSITY FILL				
IPS FORCE MAIN				
WATERLINE				

SECTION AND DETAIL DESIGNATIONS



* NOTE: IF PLAN AND SECTION FOR DETAIL CALL-OUT AND DETAIL ARE SHOWN ON THE SAME DRAWING, DRAWING NUMBER IS REPLACED WITH A DASH.

ROAD RESTORATION LEGEND

	UNPAVED AREA, SEE DETAIL 1, DRAWING 28 - R-5
	HMA PAVEMENT, SEE DETAIL 2, DRAWING 28 - R-5



Know what's below.
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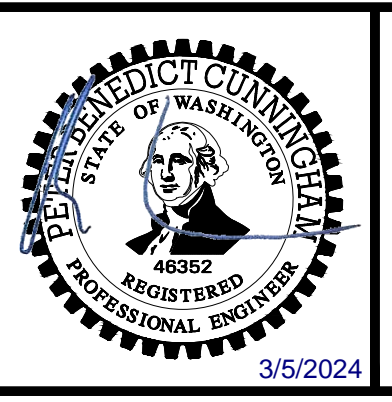
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NO.	DATE	BY	REVISION

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EJJ DRAWN
EKS CHECKED



**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**

In Partnership with City of Poulsbo

ABBREVIATIONS, SYMBOLS AND LEGEND			
PROJECT NO.:	W220438WA	SCALE:	AS SHOWN
DATE:	MARCH 2024		

SHEET	G-2
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GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (REFERRED TO HEREIN AS THE STANDARD SPECIFICATIONS), PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE WASHINGTON STATE CHAPTER OF THE APWA; KITSAP COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD FOR SANITARY SEWER EXTENSIONS; AND KITSAP COUNTY'S ROAD STANDARDS AND SPECIFICATIONS, AS SUPPLEMENTED BY THE DRAWINGS AND CONTRACT DOCUMENTS.
- VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL CONSTRUCTION IS SUBJECT TO INSPECTION BY KITSAP COUNTY. NOTIFY THE COUNTY OF THE SCHEDULE IN SUFFICIENT TIME TO PERMIT INSPECTION PRIOR TO AND DURING WORK.
- ALL WORK WITHIN THE SITE AND KITSAP COUNTY RIGHT OF WAY SHALL BE SUBJECT TO INSPECTION BY THE COUNTY'S INSPECTOR. NOTIFY THE COUNTY INSPECTOR IN SUFFICIENT TIME TO PERMIT INSPECTION PRIOR TO AND DURING WORK.
- CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE COUNTY, THE ENGINEER OF RECORD, AND PERMITTING AGENCY AND SHALL BE RESOLVED PRIOR TO PROCEEDING WITH CONSTRUCTION.
- EMPLOY THE PROPER STANDARD OF CARE FOR ALL WORK AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. PROTECT ALL EXISTING UTILITIES AND VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UTILITIES UNDERGROUND LOCATION CENTER AT 1-800-424-5555 (OR 811). KITSAP COUNTY PUBLIC WORKS AT (360) 337-5777 AND WSDOT, A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.
- HAVE A COPY OF THE APPROVED ISSUED FOR CONSTRUCTION PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.
- OBTAIN ALL APPLICABLE PERMITS AND EASEMENTS AS REQUIRED BY KITSAP COUNTY PUBLIC WORKS DEPARTMENT AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION.
- CONSTRUCTION NOISE SHALL BE LIMITED AS PER KITSAP COUNTY MUNICIPAL CODE (SECTION 10.28.040 AND 10.28.070).
- WHERE CONSTRUCTION IS CARRIED OUT IN AREAS NOT SPECIFIED ON THE PLANS AND WHICH HAVE EXISTING IMPROVEMENTS, APPROPRIATE MEASURES SHALL BE TAKEN TO RESTORE SUCH AREAS TO CONDITIONS EXISTING PRIOR TO CONSTRUCTION OR AS REQUIRED BY KITSAP COUNTY DEPARTMENT OF PUBLIC WORKS.
- OFF SITE PREMISE STAGING OR STORAGE AREAS SHALL REQUIRE A WRITTEN RELEASE FROM THE AFFECTED PROPERTY OWNER. IN ADDITION, A RELEASE FROM THE COUNTY SHALL BE REQUIRED DESIGNATING THAT DAMAGE TO COUNTY PROPERTY IS NEGLIGIBLE OR NON-EXISTENT.
- TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF EMPLOYEES ON THE PROJECT AND COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL, STATE, AND MUNICIPAL SAFETY LAWS AND BUILDING CODES. ERECT AND PROPERLY MAINTAIN, AT ALL TIMES, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR PROTECTION OF WORKERS AND THE PUBLIC; POST DANGER SIGNS WARNING AGAINST KNOWN OR UNUSUAL HAZARDS; AND DESIGNATE A RESPONSIBLE MEMBER OF THE ORGANIZATION ON THE CONSTRUCTION SITE WHOSE DUTY IS THE PREVENTION OF ACCIDENTS.
- CONTRACTOR IS RESPONSIBLE FOR DAMAGES TO COUNTY PROPERTY, PAVEMENT, WALKS, UTILITIES OR UNDERGROUND CABLES. IT IS STRONGLY RECOMMENDED TO VIDEO RECORD THE EXISTING CONDITIONS OF THE SURROUNDING AREAS AND SUBMITTING THE VIDEO TO THE COUNTY PRIOR TO THE START OF ANY WORK.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH PSE REGARDING HOLDING OF POWER POLES WHICH ARE NEAR THE CONSTRUCTION AREA. DISTRIBUTION POLES MUST BE HELD IF THEY ARE WITHIN 5 FEET OF THE TRENCH; TRANSMISSION POLES MUST BE HELD IF THEY ARE WITHIN A DISTANCE TO BE DETERMINED BY PSE.
- EXISTING VALVES SHALL BE OPERATED ONLY BY KITSAP COUNTY STAFF.
- ALL PIPING SHALL BE CLEANED AND TESTED PRIOR TO PAVING IN CONFORMANCE WITH THE SPECIFICATIONS.
- PRIOR TO BACKFILL, ALL PIPES AND APPURTENANCES SHALL BE INSPECTED BY THE COUNTY. INSPECTION SHALL NOT RELIEVE THE CONTRACTOR OF CORRECTION OF ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTION.
- COORDINATE WITH THE ENGINEER REGARDING TEMPORARY CONSTRUCTION EASEMENTS PRIOR TO CONSTRUCTION ON EASEMENTS.

- DEVELOP A SANITARY SEWER TEMPORARY BYPASS PLAN PRIOR TO DISRUPTING ANY LIVE SEWERS, INCLUDING MAIN LINES, FORCE MAINS, OR SIDE SEWERS. PLAN SHALL ADDRESS COUNTY COORDINATION. SUBMIT PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- PHYSICAL CONNECTIONS TO THE EXISTING SEWER SYSTEM SHALL NOT BE MADE UNTIL AUTHORIZED BY THE ENGINEER. SUCH AUTHORIZATION WILL NOT BE GIVEN UNTIL THE CONTRACTOR HAS SATISFIED THE ENGINEER THAT THE NEW FORCE MAIN IS READY TO BE PLACED INTO SERVICE.
- VERIFY ACCURACY OF ALL UTILITY LOCATIONS SHOWN ON DRAWINGS. DISCOVER AND AVOID ALL UTILITIES, SHOWN OR NOT SHOWN, THAT MAY BE IMPACTED BY THE CONTRACTOR'S WORK.
- ADJUST ALL MANHOLE RIMS, DRAINAGE STRUCTURES, LIDS, VALVE BOXES, UTILITY ACCESS STRUCTURES, AND MONUMENT COVERS TO FINISH GRADE WITHIN AREAS AFFECTED BY THE CONTRACTOR'S WORK.
- CDF IS REQUIRED WHERE MINIMUM 3'-0" COVER CANNOT BE MET AND INSTALLED PER SPECIFICATIONS.
- IPS LOCATIONS TO BE CONFIRMED BY CONTRACTOR.
- COORDINATE SIPHON TESTING PLANNED FOR AUGUST 12, 2024 WITH KITSAP COUNTY.

GENERAL EROSION AND SEDIMENTATION CONTROL NOTES

- THE FOLLOWING EROSION AND SEDIMENTATION CONTROL NOTES APPLY TO ALL CONSTRUCTION SITE ACTIVITIES AT ALL TIMES, UNLESS OTHERWISE SPECIFIED ON THESE PLANS.
- THE CONTRACTOR SHALL INSTALL HIGH VISIBILITY SILT FENCE ALONG THE SHOULDER ON BOTH SIDES OF THE ROAD THROUGHOUT THE ENTIRE PIPE ALIGNMENT. FENCE SHALL EXTEND A MINIMUM OF 20 FEET BEYOND EACH DAY'S PROPOSED CONSTRUCTION, INCLUDING ALONG BRANCHING ROADS. CONTRACTOR SHALL INSTALL FENCE IN SUCH A WAY AS TO ALLOW CONTINUOUS ACCESS TO DRIVEWAYS, MAILBOXES, AND OTHER ROADSIDE ITEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR PREVENTING SILT-LADEN RUNOFF FROM DISCHARGING FROM THE PROJECT SITE. FAILURE BY THE CONTRACTOR CAN RESULT IN A FINE. THE DESIGNATED TEMPORARY CONTACT PERSON NOTED ON THIS PLAN SHALL BE AVAILABLE FOR CONTACT BY TELEPHONE ON A 24-HOUR BASIS THROUGHOUT CONSTRUCTION AND UNTIL THE PROJECT HAS BEEN COMPLETED AND ACCEPTED BY KITSAP COUNTY.
- THE IMPLEMENTATION OF THE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THE BMPS IS THE RESPONSIBILITY OF THE CONTRACTOR FROM THE BEGINNING OF CONSTRUCTION UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED AND THE SITE IS STABILIZED.
- THE ESC BMPS ARE CONSIDERED ADEQUATE BASIC REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION, DEVIATIONS FROM THE PLAN MAY BE NECESSARY IN ORDER TO MAINTAIN WATER QUALITY. MINOR DEPARTURES FROM THE PLAN ARE PERMITTED SUBJECT TO THE APPROVAL OF THE COUNTY INSPECTOR. HOWEVER, EXCEPT FOR EMERGENCY SITUATIONS, ALL OTHER DEVIATIONS FROM THE PLAN SHALL BE DESIGNED BY THE CONTRACTOR AND APPROVED BY KITSAP COUNTY PRIOR TO INSTALLATION.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER AND/OR CONTRACTOR ON A FREQUENT BASIS AND IMMEDIATELY AFTER EACH RAINFALL AND MAINTAINED AS NEEDED.
- THE CONTRACTOR SHALL PROTECT DITCH LINES AT ALL TIMES ALONG THE PROJECT ALIGNMENT.

CONSTRUCTION SEQUENCING NOTES

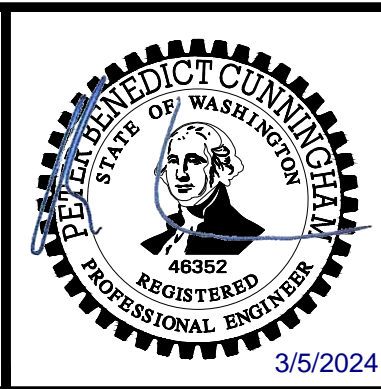
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OUTLINED IN SECTION 01 12 16 OF THE TECHNICAL SPECIFICATIONS. THE FOLLOWING LISTS ONE POTENTIAL CONSTRUCTION SEQUENCE FOR CONSIDERATION BY THE CONTRACTOR AND IS IN NO WAY MEANT TO DICTATE CONTRACTOR MEANS AND METHODS. THE POTENTIAL CONSTRUCTION SEQUENCE LISTED BELOW IS ASSOCIATED WITH KEY ITEMS ONLY. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THESE CONTRACT DOCUMENTS IN DEVELOPING A DETAILED SEQUENCE OF CONSTRUCTION.
- INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROL AND SITE FENCING. NO WORK OUTSIDE OF THE PROPERTY, EASEMENTS, OR R/W WILL BE ALLOWED.
 - PREPARE MATERIALS AND PERFORM WORK TO MINIMIZE DURATION OF BYPASS.
 - INSTALL BYPASS PIPING AND OPERATE BYPASS SYSTEM TO CONFIRM OPERATIONS PRIOR TO REMOVING EXIST SS PIPING.
 - CONSTRUCT NEW MANHOLE, PIPING, AND OTHER ITEMS FOR AN OPERATIONAL SYSTEM.
 - REMOVE BYPASS PIPING.
 - COMPLETE SITE RESTORATION PER RESTORATION PLANS.

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NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
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**JOHNSON TO NORUM
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PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET
G-3
3 of 36

SURVEY CONTROL POINTS

PT NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	MAG (BM#7)	263927.68	1198989.81	32.87
2	CP	263926.15	1199004.83	32.59
3	REBAR(BM#8)	264393.09	1199520.47	25.35
4	PLAT MON	264973.26	1199915.46	37.51

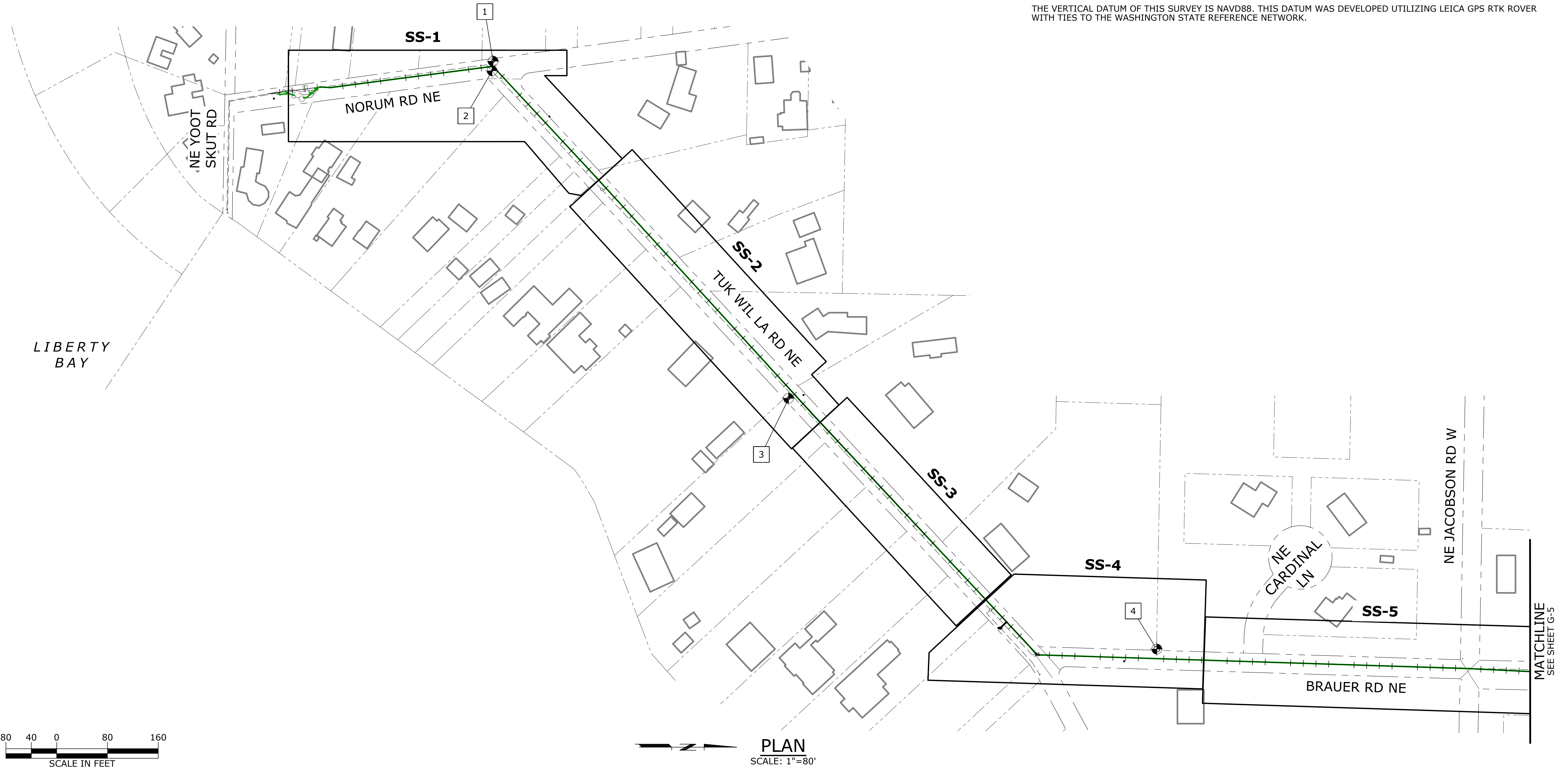
SURVEYORS NOTES

PROPERTY LINES WERE COMPUTED USING FOUND SURVEY REFERENCE POINTS, HISTORICAL SURVEYS OF RECORD AND PLAT RECORDS. NOT ALL SURVEYORS HAVE AGREED ON THE PROCEDURES TO COMPUTE THE PLAT POSITIONS. THIS OFFICE FOLLOWED SUIT WITH SEVERAL PREVIOUS SURVEYORS WHO HAVE A LONG HISTORY OF COMPUTING THE PLAT POSITIONS CONSISTENTLY THE SAME.

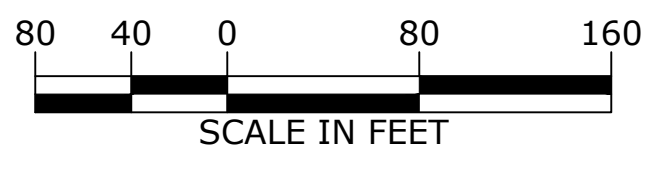
THERE ARE TWO FOUND RAILROAD SPIKES WHICH HAVE BEEN HISTORICALLY IDENTIFIED AND RELIED UPON BY PREVIOUS SURVEYS FOR COMPUTING THE PROPERTY BOUNDARIES WITHIN THE PLAT OF LE-MO-LO ACRES. THE ORIGIN OF THESE RAILROAD SPIKES IS UNKNOWN. THESE HISTORICAL MONUMENTS SHOULD BE PRESERVED OR REPLACED BY THE CONTRACTOR DURING CONSTRUCTION. BOTH MONUMENTS ARE IDENTIFIED ON THIS MAP. THERE ARE ALSO NUMEROUS PROPERTY CORNER MARKERS FOUND WHILE CONDUCTING THE SURVEY. THESE ARE ALSO SHOWN ON THIS MAP, HOWEVER, WITH THE PROPOSED PIPE ALIGNMENT INSIDE THE EXISTING ROADWAY, THE POTENTIAL FOR THESE MARKERS TO BE DESTROYED IS VERY SLIM.

THE HORIZONTAL DATUM OF THIS SURVEY IS WASHINGTON STATE PLANE, NORTH ZONE NAD83(11), US SURVEY FOOT. CONTROL WAS DEVELOPED UTILIZING LEICA GPS RTK ROVER WITH TIES TO THE WASHINGTON STATE REFERENCE NETWORK.

THE VERTICAL DATUM OF THIS SURVEY IS NAVD88. THIS DATUM WAS DEVELOPED UTILIZING LEICA GPS RTK ROVER WITH TIES TO THE WASHINGTON STATE REFERENCE NETWORK.



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PLAN
SCALE: 1"=80'

NO.	DATE	BY	REVISION

NOTICE
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**JOHNSON TO NORUM
SEWER MAIN
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SURVEY CONTROL PLAN - 1
PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET
G-4
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SURVEY CONTROL POINTS

PT NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
5	CP	266122.95	1199969.03	21.52
6	CP	266183.48	1200084.65	34.51
7	REBAR(BM#1)	266883.33	1200086.27	56.68
8	REBAR(BM#2)	267225.71	1200094.20	77.53

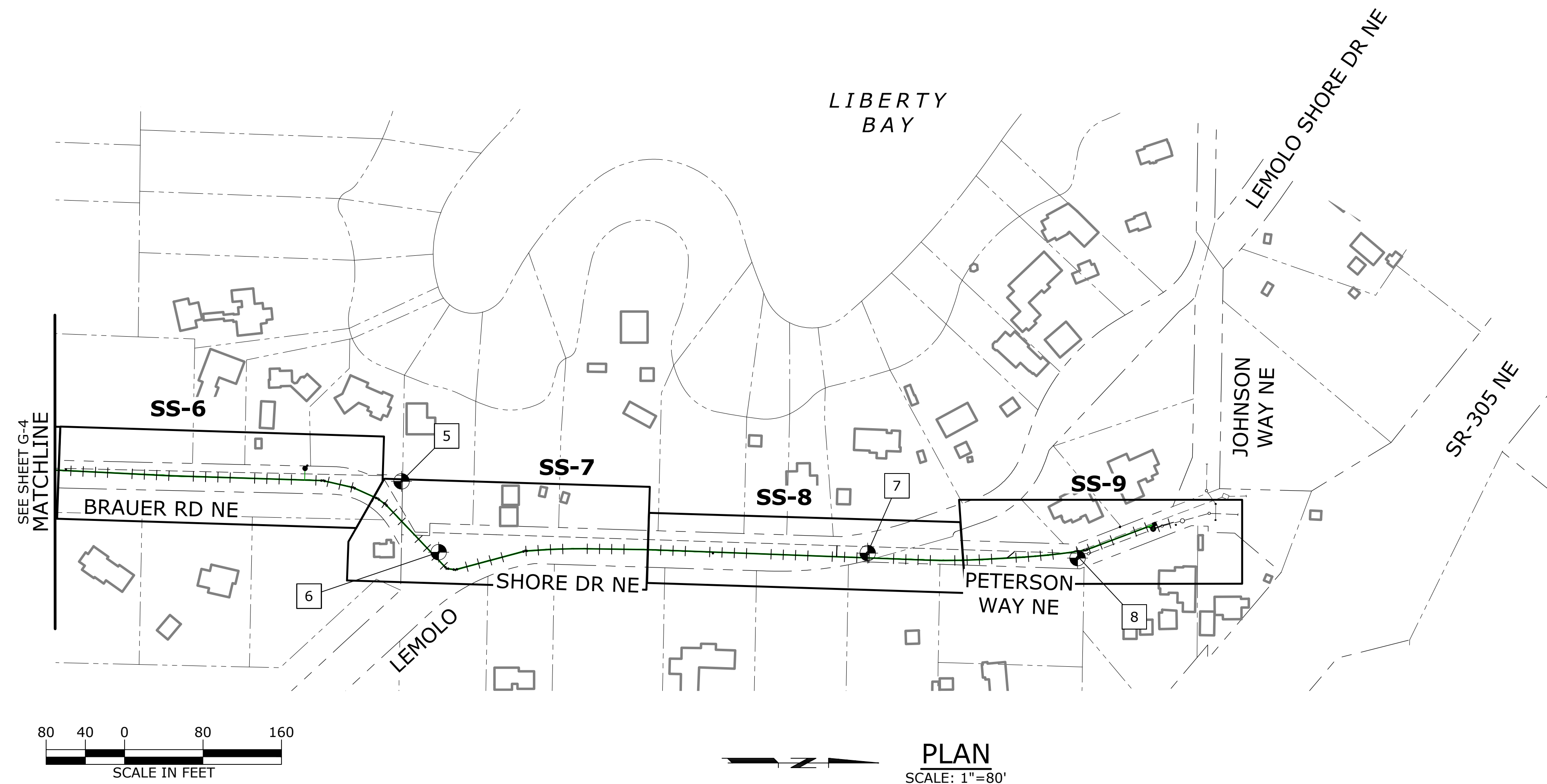
SURVEYORS NOTES

PROPERTY LINES WERE COMPUTED USING FOUND SURVEY REFERENCE POINTS, HISTORICAL SURVEYS OF RECORD AND PLAT RECORDS. NOT ALL SURVEYORS HAVE AGREED ON THE PROCEDURES TO COMPUTE THE PLAT POSITIONS. THIS OFFICE FOLLOWED SUIT WITH SEVERAL PREVIOUS SURVEYORS WHO HAVE A LONG HISTORY OF COMPUTING THE PLAT POSITIONS CONSISTENTLY THE SAME.

THERE ARE TWO FOUND RAILROAD SPIKES WHICH HAVE BEEN HISTORICALLY IDENTIFIED AND RELIED UPON BY PREVIOUS SURVEYS FOR COMPUTING THE PROPERTY BOUNDARIES WITHIN THE PLAT OF LE-MO-LO ACRES. THE ORIGIN OF THESE RAILROAD SPIKES IS UNKNOWN. THESE HISTORICAL MONUMENTS SHOULD BE PRESERVED OR REPLACED BY THE CONTRACTOR DURING CONSTRUCTION. BOTH MONUMENTS ARE IDENTIFIED ON THIS MAP. THERE ARE ALSO NUMEROUS PROPERTY CORNER MARKERS FOUND WHILE CONDUCTING THE SURVEY. THESE ARE ALSO SHOWN ON THIS MAP, HOWEVER, WITH THE PROPOSED PIPE ALIGNMENT INSIDE THE EXISTING ROADWAY, THE POTENTIAL FOR THESE MARKERS TO BE DESTROYED IS VERY SLIM.

THE HORIZONTAL DATUM OF THIS SURVEY IS WASHINGTON STATE PLANE, NORTH ZONE NAD83(11), US SURVEY FOOT. CONTROL WAS DEVELOPED UTILIZING LEICA GPS RTK ROVER WITH TIES TO THE WASHINGTON STATE REFERENCE NETWORK.

THE VERTICAL DATUM OF THIS SURVEY IS NAVD88. THIS DATUM WAS DEVELOPED UTILIZING LEICA GPS RTK ROVER WITH TIES TO THE WASHINGTON STATE REFERENCE NETWORK.

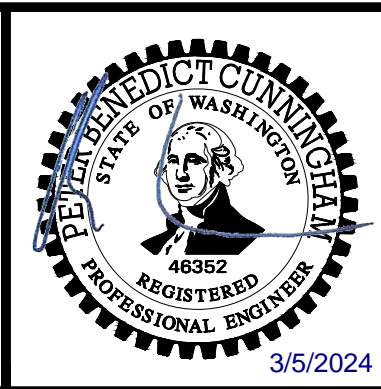


NO.	DATE	BY	REVISION

NOTICE

 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CJM
 DESIGNED
 EJJ
 DRAWN
 EKS
 CHECKED

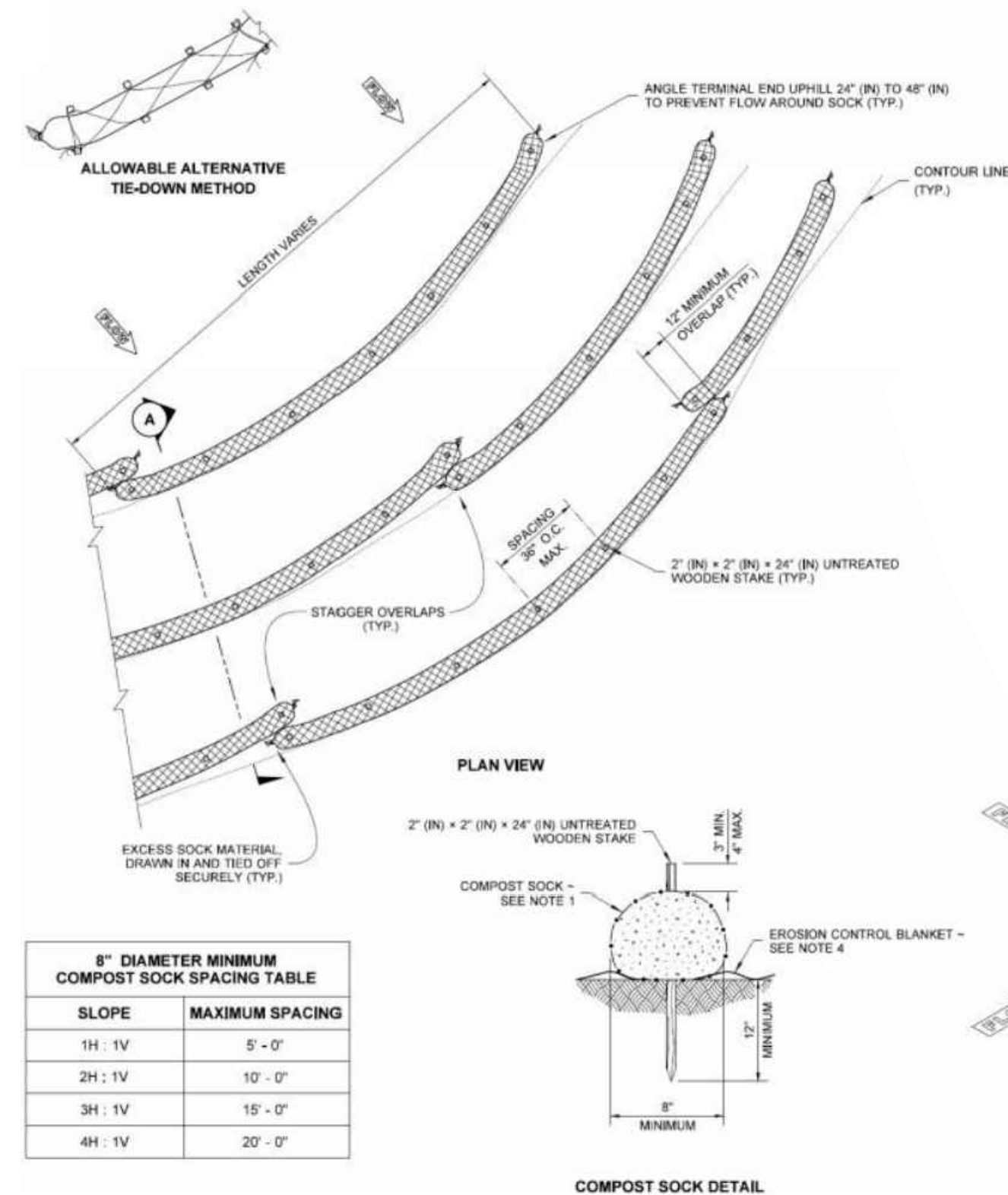


**JOHNSON TO NORUM
 SEWER MAIN
 REPLACEMENT**
 In Partnership with City of Poulsbo

SURVEY CONTROL PLAN - 2
 PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET
G-5
 5 of 36

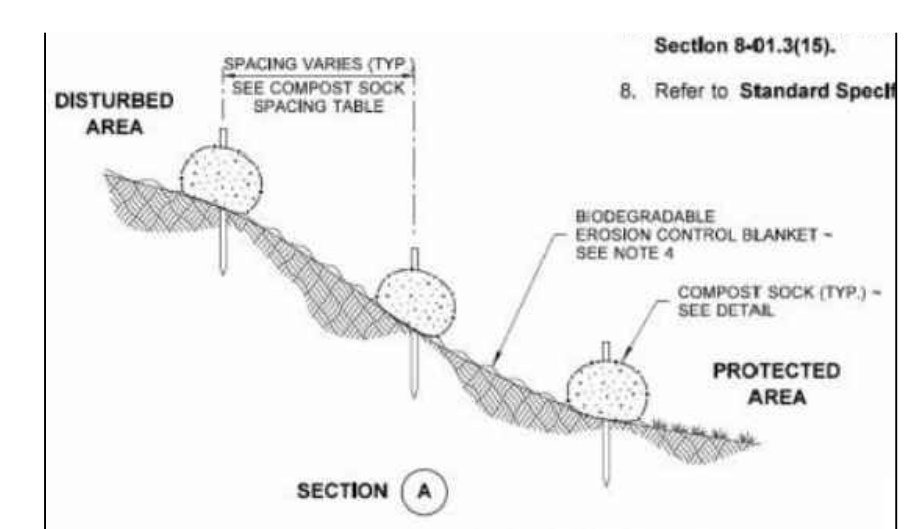
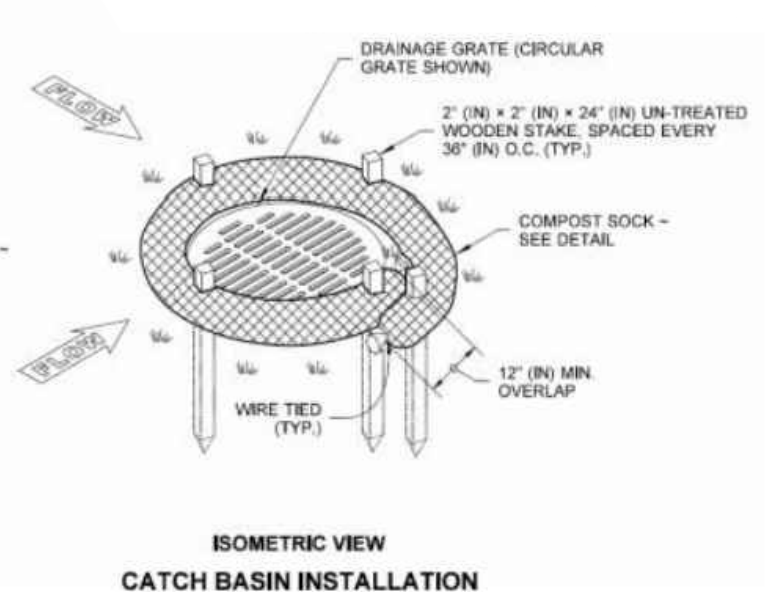
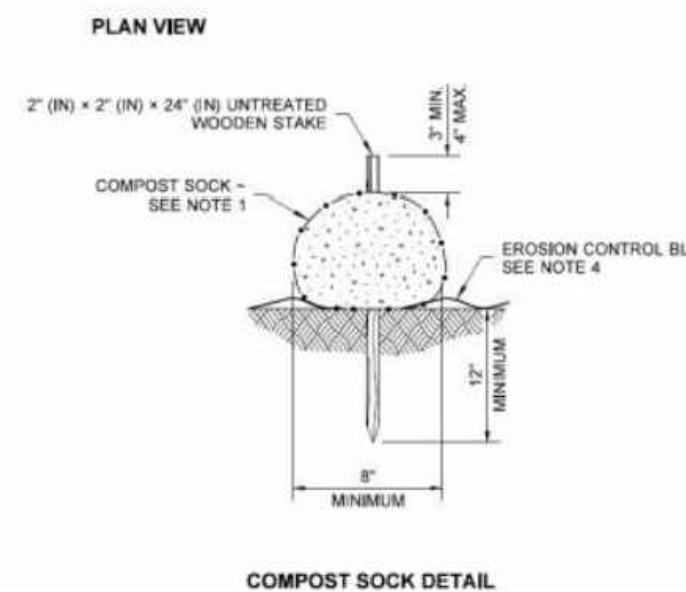
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SLOPE	MAXIMUM SPACING
1H : 1V	5' - 0"
2H : 1V	10' - 0"
3H : 1V	15' - 0"
4H : 1V	20' - 0"

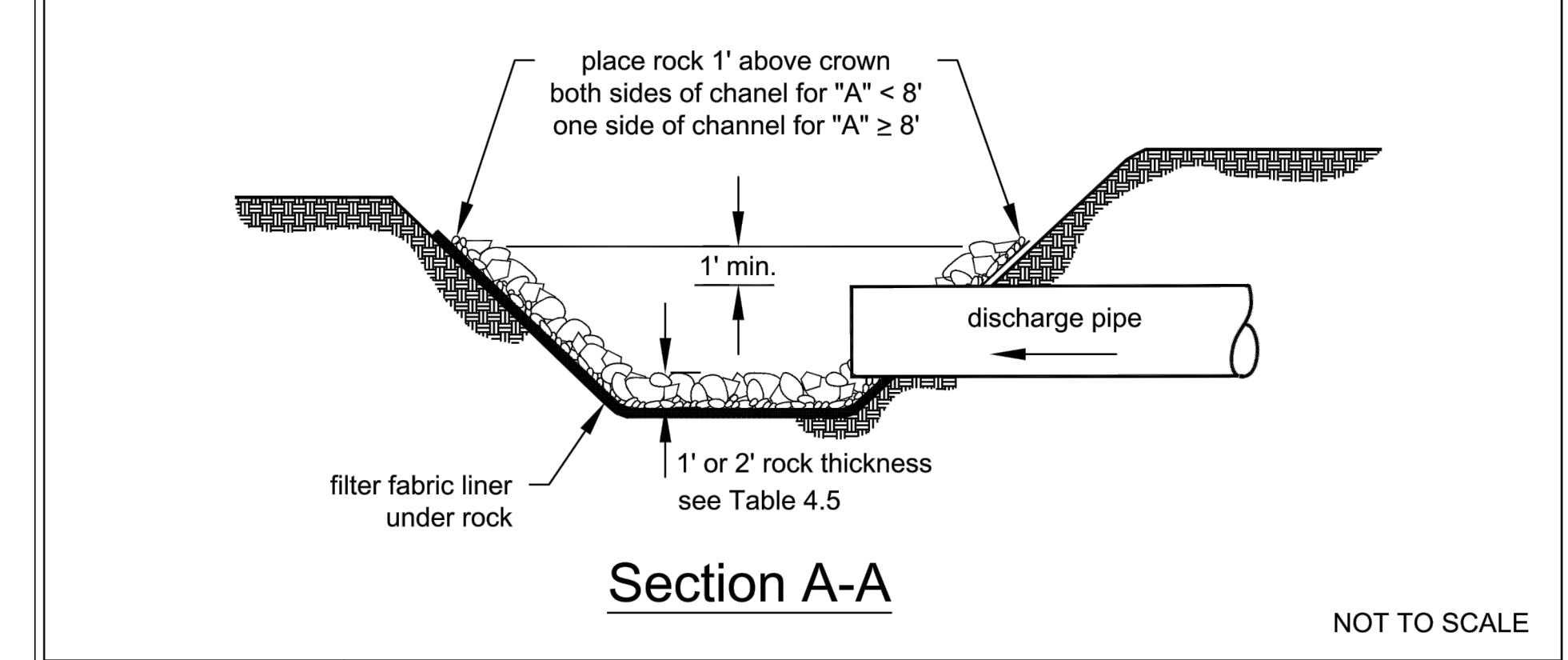
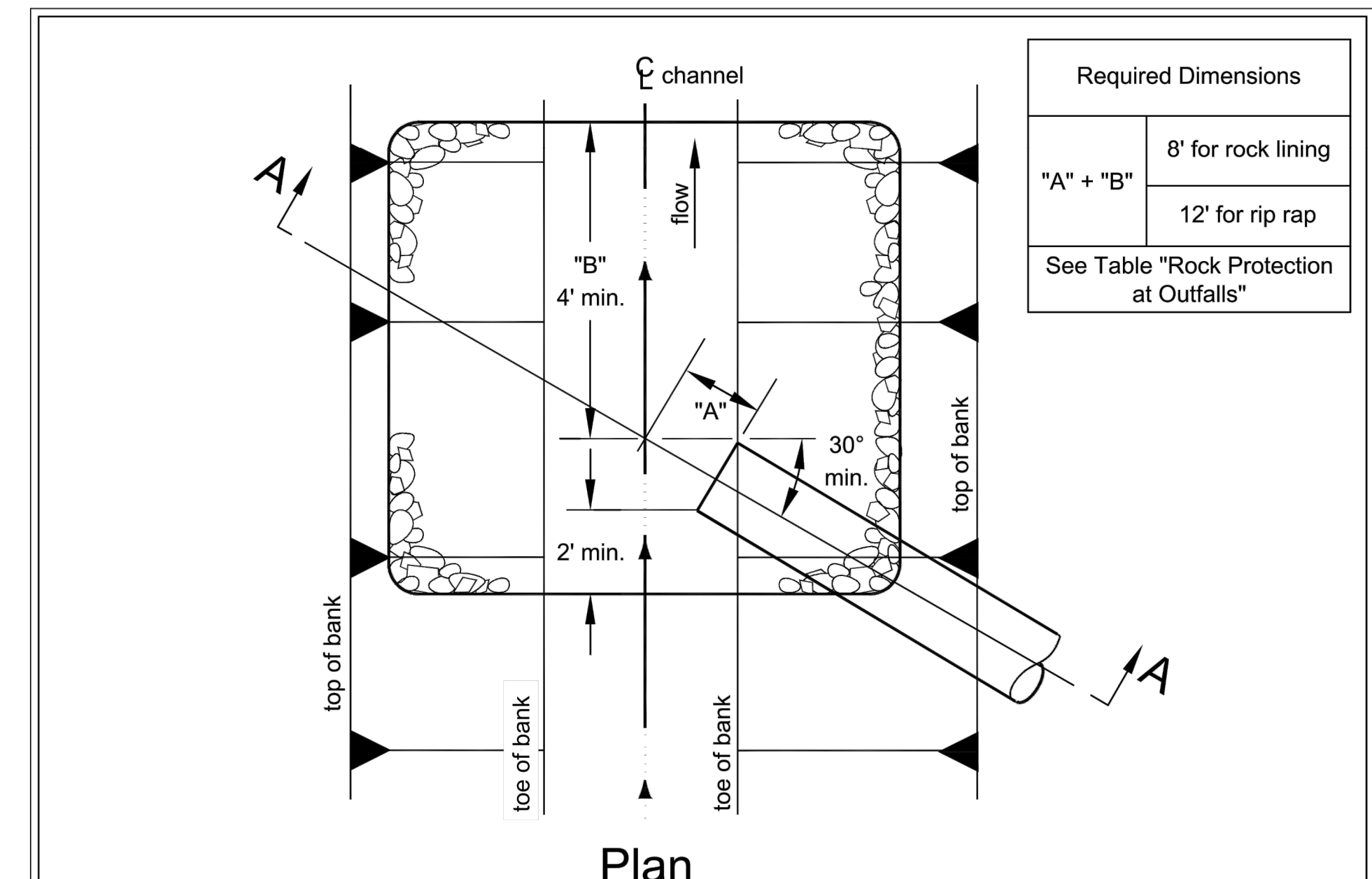
NOTES:

1. COMPOST SOCK SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 9-14.5(6).
2. SECURELY KNOT EACH END OF COMPOST SOCK. OVERLAP ADJACENT COMPOST SOCK ENDS 12"(IN) BEHIND ONE ANOTHER AND SECURELY TIES TOGETHER.
3. COMPOST TO BE DISPERSED ON SITE AS DETERMINED BY THE ENGINEER, WHEN VEGETATION COVERS THE SURFACE.
4. IF EROSION CONTROL BLANKET IS SPECIFIED, PLACE COMPOST SOCK ON TOP OF BLANKET. SEE STANDARD PLAN I-60.10.
5. INSTALL COMPOST SOCK PERPENDICULAR TO FLOW ALONG CONTOURS.
6. REMOVE SEDIMENT FROM THE UP SLOPE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK WITHOUT COMPROMISING THE INTENDED FUNCTION OF THE COMPOST SOCK PERT STANDARD SPECIFICATION, SECTION 8-01.3(12) AS DETERMINED BY THE ENGINEER.
7. PERFORMED MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION, SECTION 8-01.3(15).
8. REFER TO STANDARD SPECIFICATION, SECTION 8-01.3(16) FOR REMOVAL.



COMPOST SOCK
WSDOT STANDARD PLAN I-30.40-02
 SCALE: NTS

1
TYP



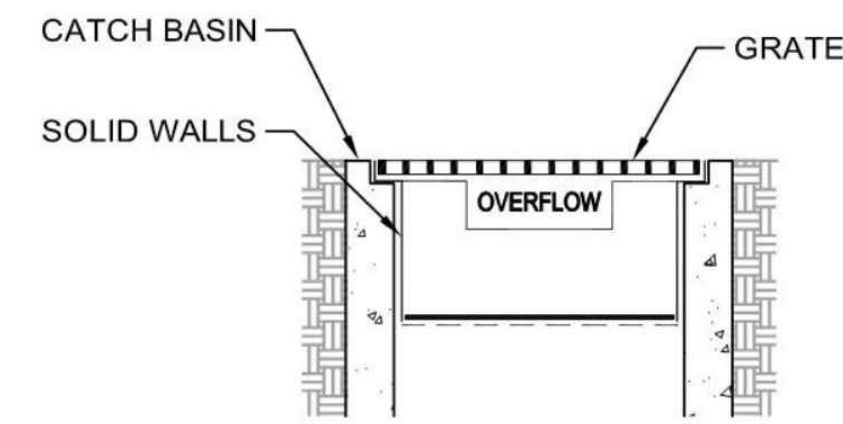
Pipe/Culvert Outfall Discharge Protection
 Revised June 2017

DEPARTMENT OF ECOLOGY
 State of Washington

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CULVERT PROTECTION DETAIL
 SCALE: NTS

4
TYP



CATCH BASIN FILTER MAINTENANCE STANDARDS:

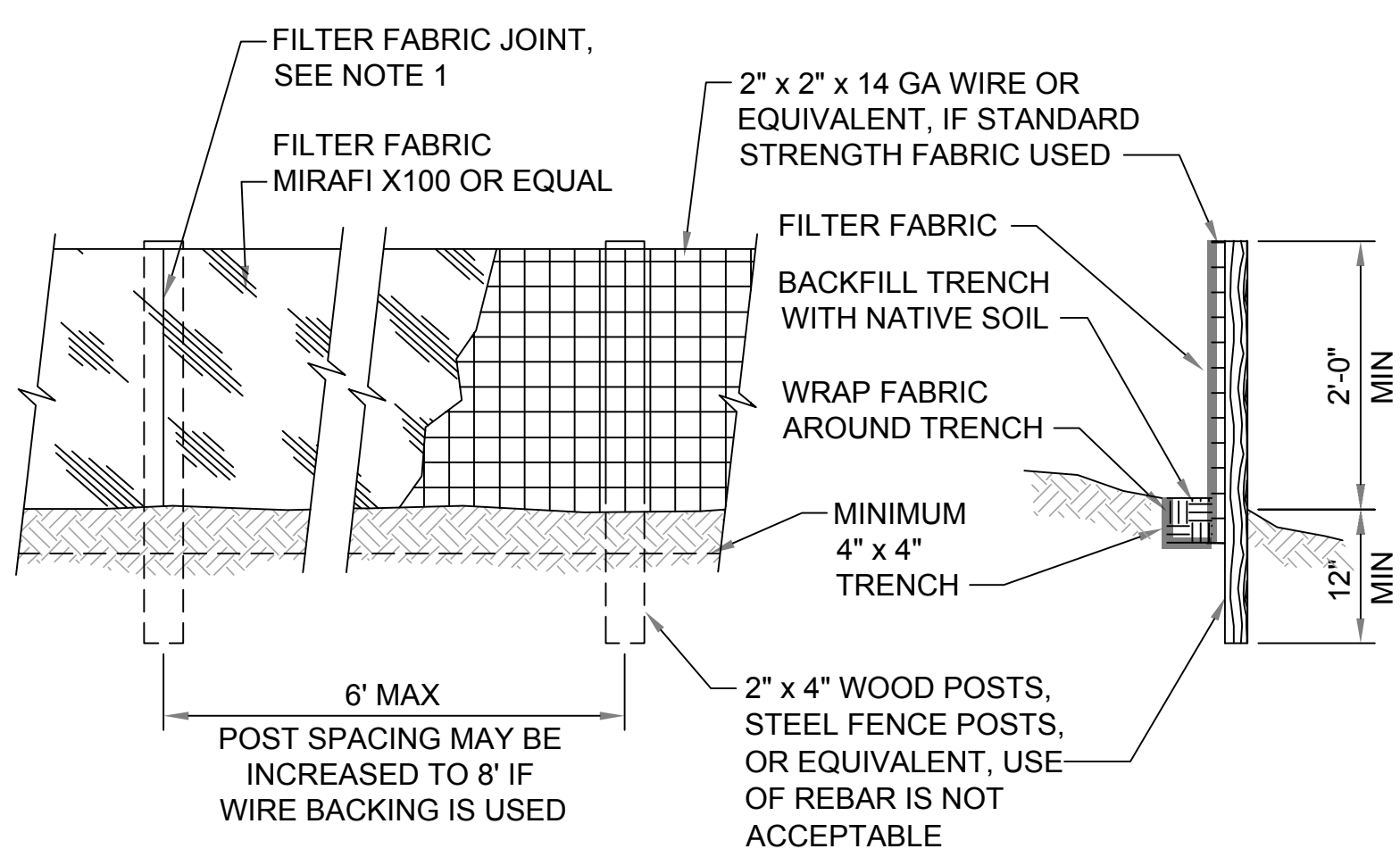
1. ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC PROTECTION SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED WITH WATER, AND ALL SEDIMENT SHALL BE DISPOSED OF AS FILL ON-SITE OR HAULED OFF-SITE.
2. ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY.
3. REGULAR MAINTENANCE IS CRITICAL FOR CATCH BASIN PROTECTION. UNLIKE MANY FORMS OF PROTECTION THAT FAIL GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.

NOTE:

THIS DETAIL IS ONLY SCHEMATIC. ANY INSERT IS ALLOWED THAT HAS A MINIMUM 0.5 CF OF STORAGE, THE MEANS TO DEWATER THE STORED SEDIMENT, HAS AN OVERFLOW, AND CAN BE EASILY MAINTAINED.

CATCH BASIN INSERT DETAIL
 SCALE: NTS

2
TYP



NOTES:

1. FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE. JOINTS IN FILTER FABRIC SHALL BE SPLICED AT POSTS. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO POSTS. INSTALL FILTER FABRIC ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
2. FILTER FABRIC FENCE TO BE USED WHERE NEEDED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

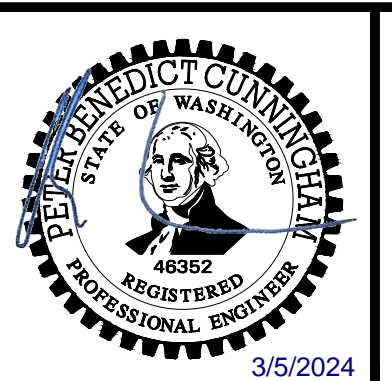
HIGH VISIBILITY FILTER FENCE DETAIL
 SCALE: NTS

3
TYP

NO.	DATE	BY	REVISION

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

CJM DESIGNED
 EJJ DRAWN
 EKS CHECKED



KITSAP COUNTY
 WASHINGTON
 JOHNSON TO NORUM
 SEWER MAIN REPLACEMENT
 In Partnership with City of Poulsbo

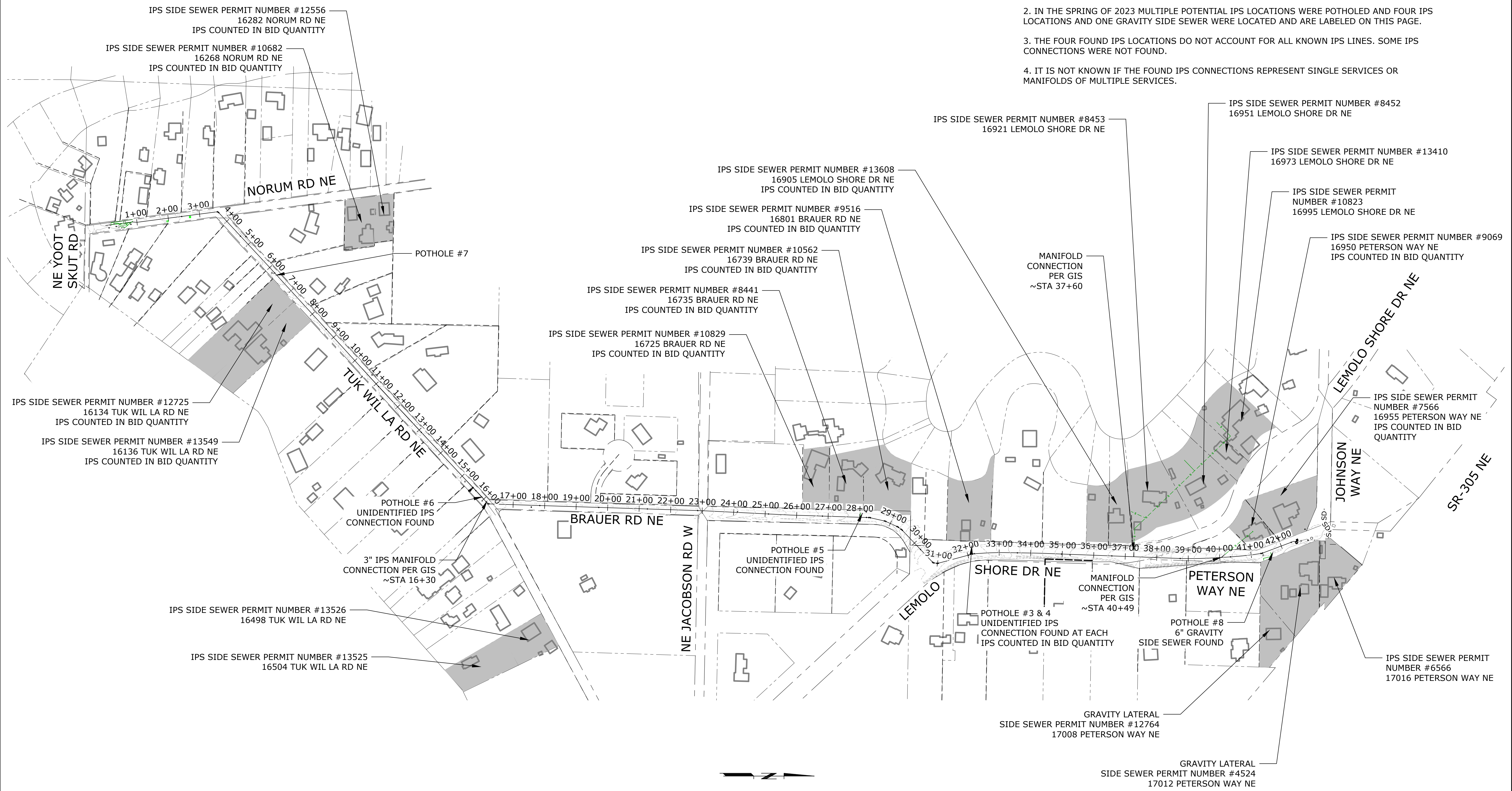
PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

TESC - 1

SHEET
 G-6
 6 of 36

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING IPS CONNECTIONS
2. IN THE SPRING OF 2023 MULTIPLE POTENTIAL IPS LOCATIONS WERE POTHOLED AND FOUR IPS LOCATIONS AND ONE GRAVITY SIDE SEWER WERE LOCATED AND ARE LABELED ON THIS PAGE.
3. THE FOUR FOUND IPS LOCATIONS DO NOT ACCOUNT FOR ALL KNOWN IPS LINES. SOME IPS CONNECTIONS WERE NOT FOUND.
4. IT IS NOT KNOWN IF THE FOUND IPS CONNECTIONS REPRESENT SINGLE SERVICES OR MANIFOLDS OF MULTIPLE SERVICES.



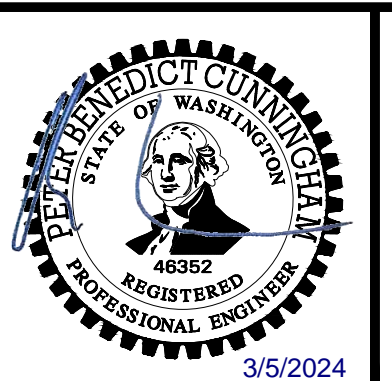
PLAN
SCALE: 1"=150'

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NO.	DATE	BY	REVISION

NOTICE
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EJJ
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EKS
CHECKED



**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**

**INDIVIDUAL PUMP STATIONS
EXISTING LOCATIONS**

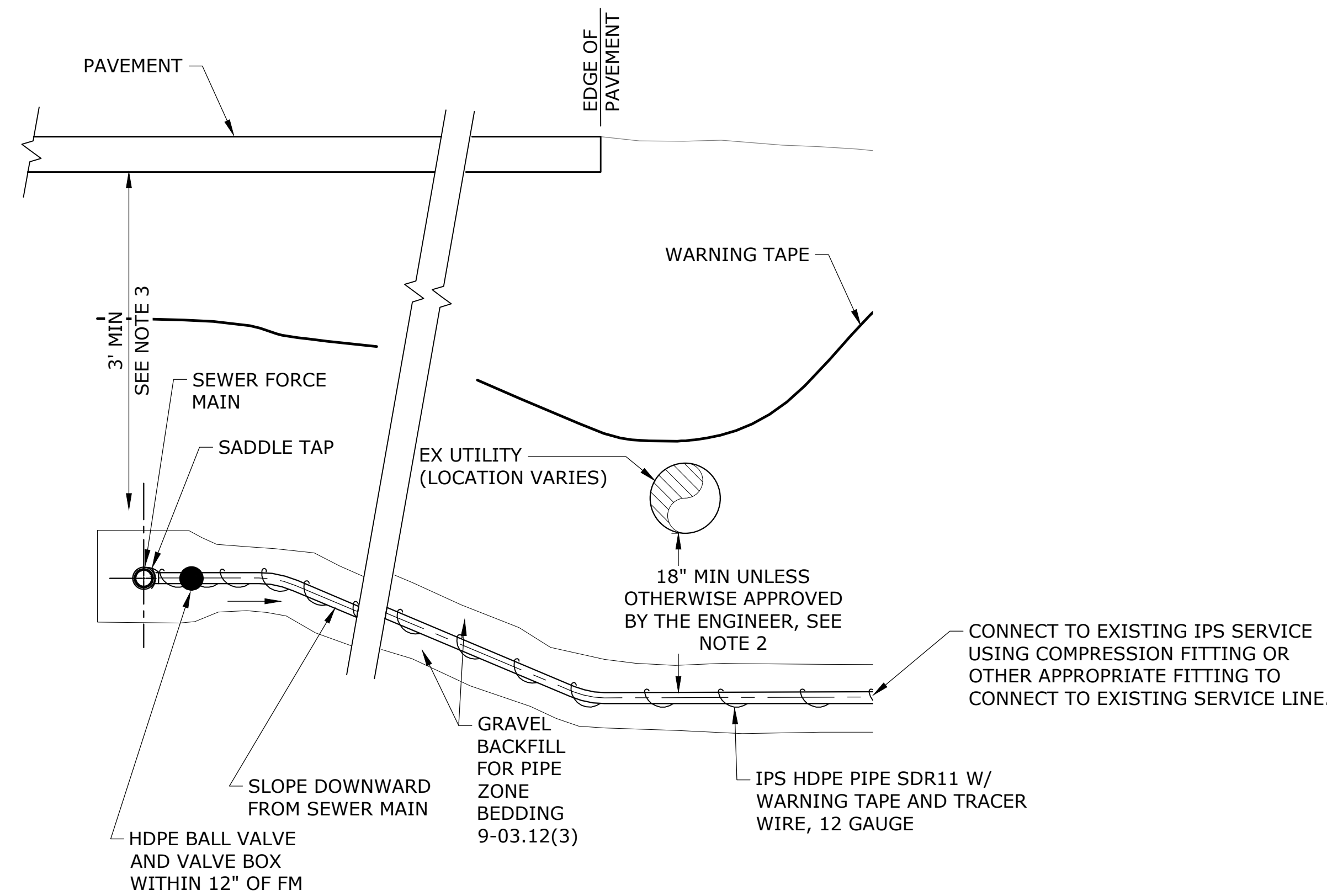
PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET
IPS-1
7 of 36

N:\Projects\22\W220438WA.00 - Poulsbo, WA - T01 Johnson-Norum Pipeline\CAD\Sheets\W220438WA-PS.dwg IPS-2 2/20/2024 11:21 AM MATT. ESTEP 24.1s (LMS Tech)

NOTES:

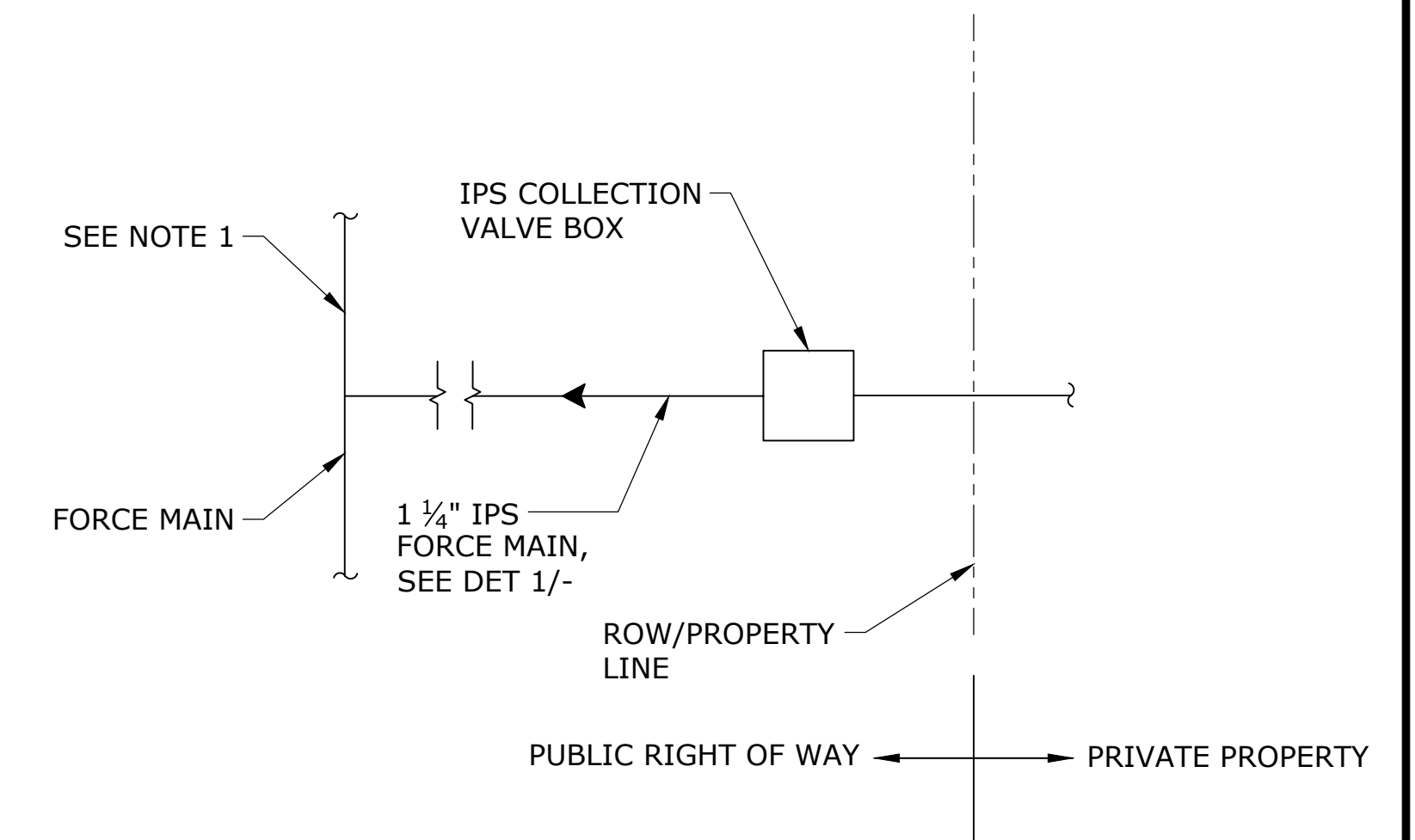
1. ALL PVC PIPE AND FITTINGS SHALL BE SCHEDULE 80.
2. WATER LINES WITH LESS THAN 18" SEPARATION REQUIRE CASING OF THE IPS LATERAL WITH 4"Ø C900 OR SCH80 PVC PIPE EXTENDING 5 FEET TO EACH SIDE OF THE CROSSING. IF WATER LINE DEPTH IS GREATER THAN 5-FEET, CONTRACTOR HAS OPTION OF ROUTING IPS LATERAL OVER WATER LINE AND CASING IPS LATERAL.
3. TYPICAL BURY DEPTH OF FORCE MAIN IS 3'.
4. ALL PIPE AND FITTINGS INSIDE VALVE BOX SHALL BE LAID FLAT.
5. TRACER WIRE INSULATED 12 GAUGE GREEN COATED WIRE TO BE WRAPPED AROUND THE PIPE FROM COLLECTOR MAINLINE AND CONTINUE WIRE TO IPS CLEANOUT.
6. CONTRACTOR TO PROVIDE DETAILED AS-BUILTS FOR IPS CONNECTIONS
7. CONTRACTOR TO LOCATE, FIELD VERIFY SIZE AND MATERIAL, AND MATCH TRANSITION COUPLING, HDPE PIPE, AND FITTINGS SIZE TO EXISTING SERVICE.
8. EXPOSE EACH EXISTING SERVICE LINE AT MAIN AND INSTALL WATER TIGHT PERMANENT CAP OVER MAIN.
9. THIS DETAIL APPLIES TO IPS MANIFOLD CONNECTIONS AS WELL AS SINGLE IPS SERVICES.



TYPICAL IPS SIDE SEWER CONNECTION DETAIL

SCALE: NTS

1
-



NOTE: SEE DET 1/- FOR FORCE MAIN CONNECTION REQUIREMENTS.

TYPICAL IPS SCHEMATIC DETAIL

SCALE: NTS

2
TYP

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
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DESIGNED
EJJ
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EKS
CHECKED



**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**

In Partnership with City of Poulsbo

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

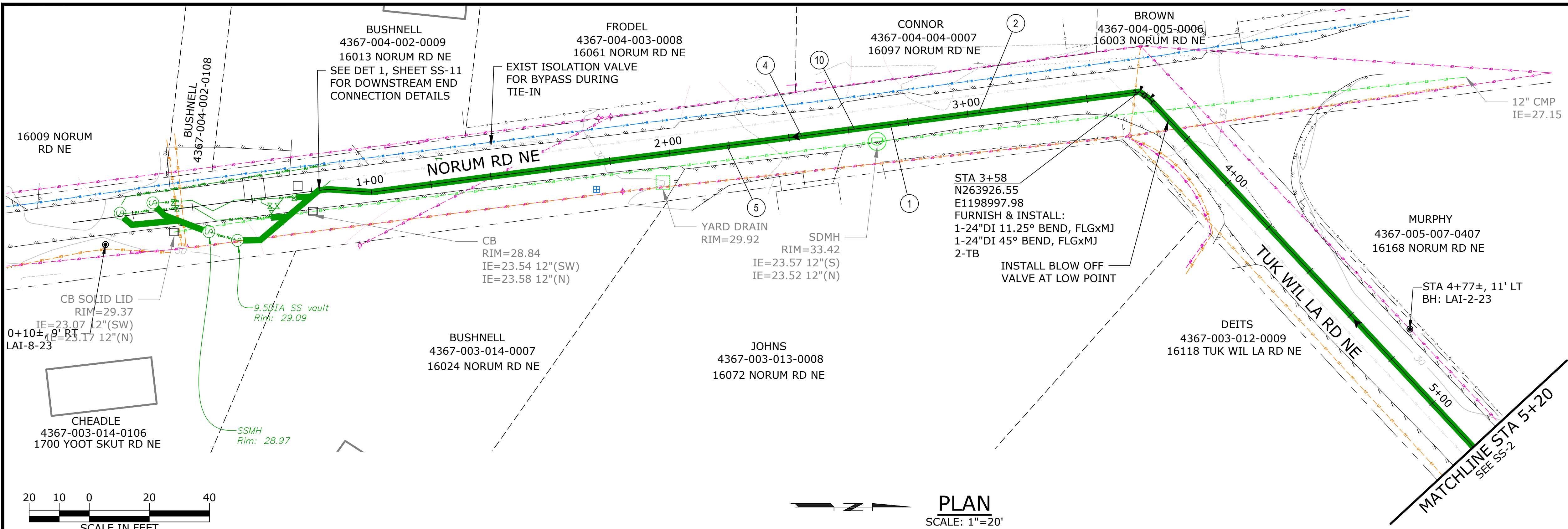
**IPS CONNECTION
PLANS AND DETAILS**

SHEET

IPS-2

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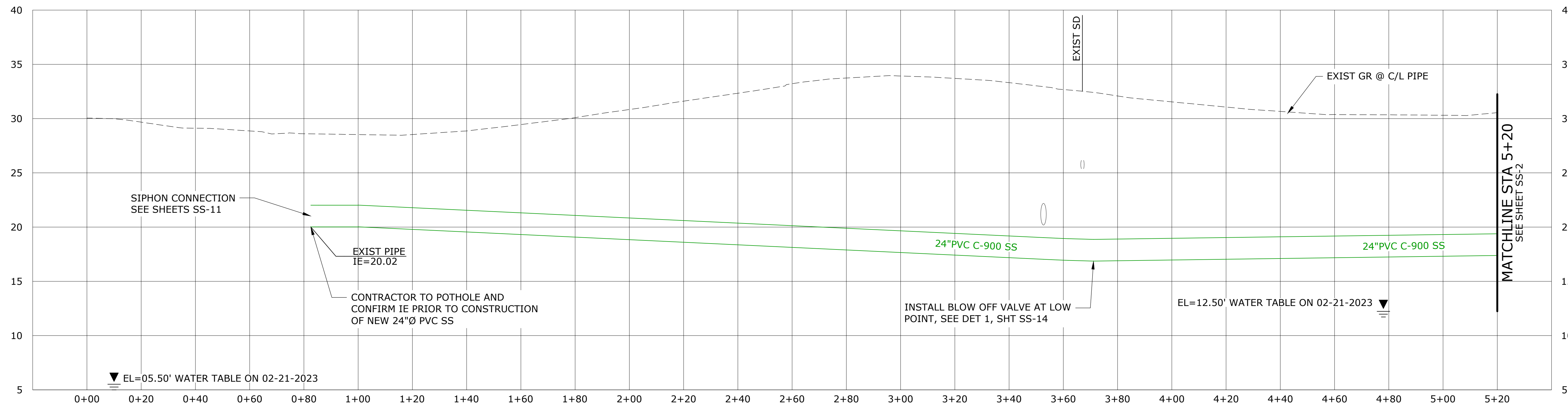


- NOTES:**
- IT IS CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES. AVOID EXISTING UTILITIES (WATER, NATURAL GAS, ELECTRICITY, CABLE/COMMUNICATIONS, STORM, IRRIGATION, ETC.) AND ASSOCIATED STRUCTURES. IF THE WORK REQUIRES THAT EXISTING UTILITIES BE PERMANENTLY OR TEMPORARILY RELOCATED, THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY AND THE UTILITY.
 - SLOPE PIPE AND TRENCH CONTINUOUSLY UPWARD TOWARD AIR VALVES AND MANHOLES, WITH NO INTERMEDIATE HIGH POINTS OR BELLIES.
 - EXISTING SEWER MUST REMAIN IN SERVICE AT ALL TIMES UNTIL NEW SEWER MAIN IS IN OPERATION AND ACCEPTED BY THE CITY AND COUNTY.
 - REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL GROUNDWATER INFORMATION.
 - INSTALL TRACER WIRE VALVE CANS PER DETAIL 1, SHEET SS-13, EVERY 450 FEET (MAX).

- CONSTRUCTION NOTES:**
- CONSTRUCTION CL EQUALS PROPOSED PIPE CL, SEE SURVEY CONTROL PLAN, SHT G-4 & G-5
 - SSFM TRENCH SECTION PER DET 2, SHT SS-13
 - NOT USED
 - CAP, FILL WITH GROUT, AND ABANDON EX SEWER MAIN AFTER THE NEW FORCEMAIN HAS ENTERED SERVICE
 - 24"Ø PVC AWWA C-900 DR25 PIPE
 - REMOVE AND REPLACE EXISTING 14"Ø DI PIPE WITH 24"Ø PVC PIPE FROM APPROX STA. 0+00 TO APPROX STA 3+74. SEE BYPASSING SHEETS.



PLAN
SCALE: 1"=20'

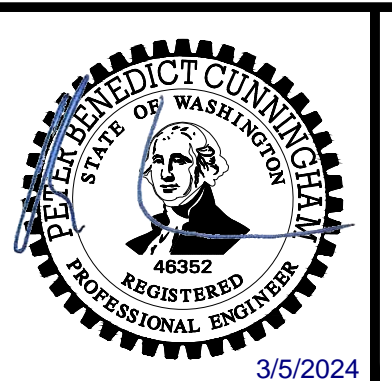


PROFILE
SCALE: 1"=20' HORIZ, 1"=5' VERT

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
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CJM
DESIGNED
EJJ
DRAWN
EKS
CHECKED



**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**

**SEWER PLAN AND PROFILE
STA 0+00 TO STA 5+20**

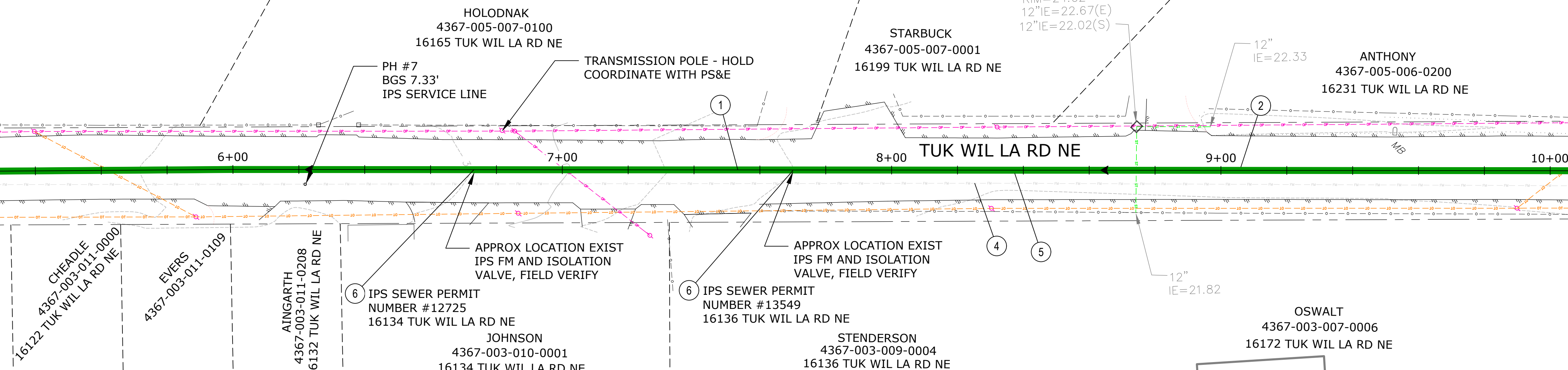
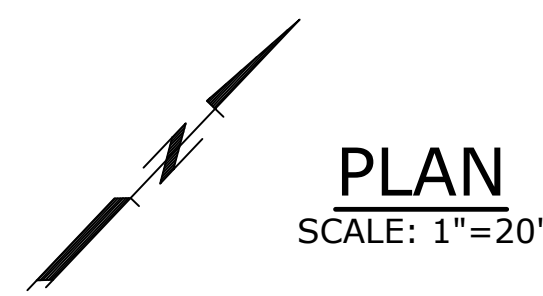
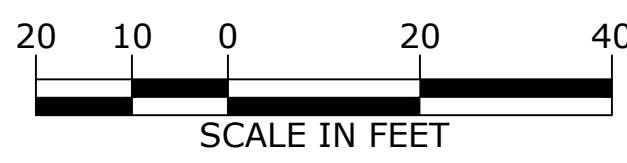
PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET
SS-1
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SEE SHEET SS-1
MATCHLINE STA 5+20

MATCHLINE STA 10+40
SEE SHEET SS-3

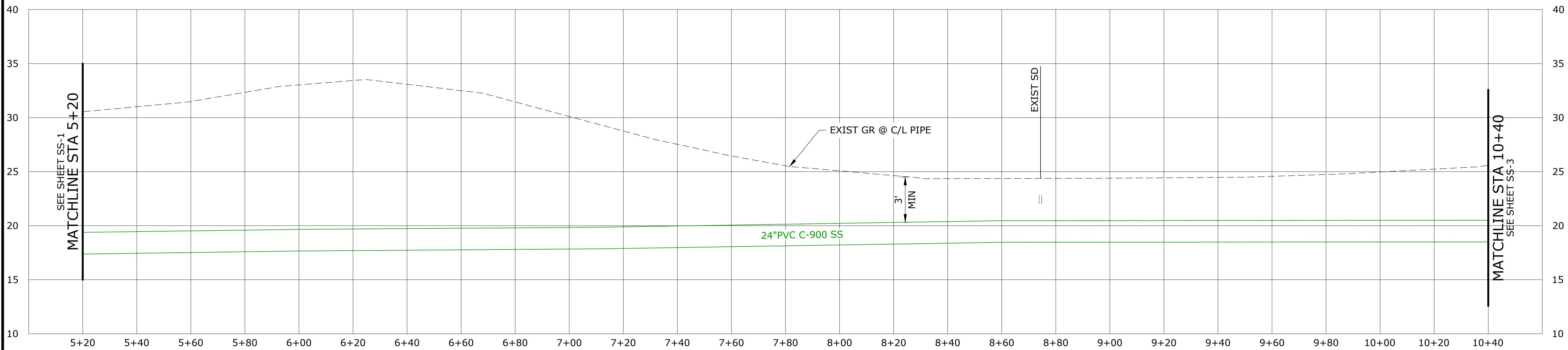


NOTES:

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CONSTRUCTION NOTES:

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- SSFM TRENCH SECTION PER DET 2, SHT SS-13
- NOT USED
- CAP, FILL WITH GROUT, AND ABANDON EX SEWER MAIN AFTER THE NEW FORCEMAIN HAS ENTERED SERVICE
- 24"Ø PVC AWWA C-900 DR25 PIPE
- CONNECT TO EXISTING IPS PER DET 1, SHT IPS-2. CONTRACTOR TO DETERMINE SIZE AND LOCATION OF IPS PIPING.



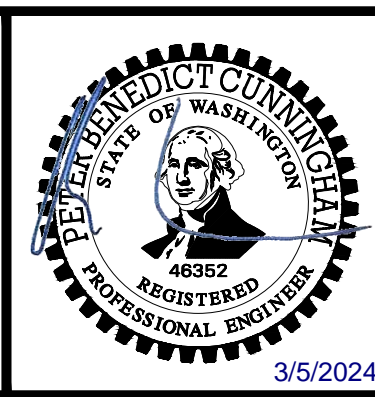
PROFILE
SCALE: 1"=20' HORIZ, 1"=5' VERT

NO.	DATE	BY	REVISION

NOTICE

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EJJ
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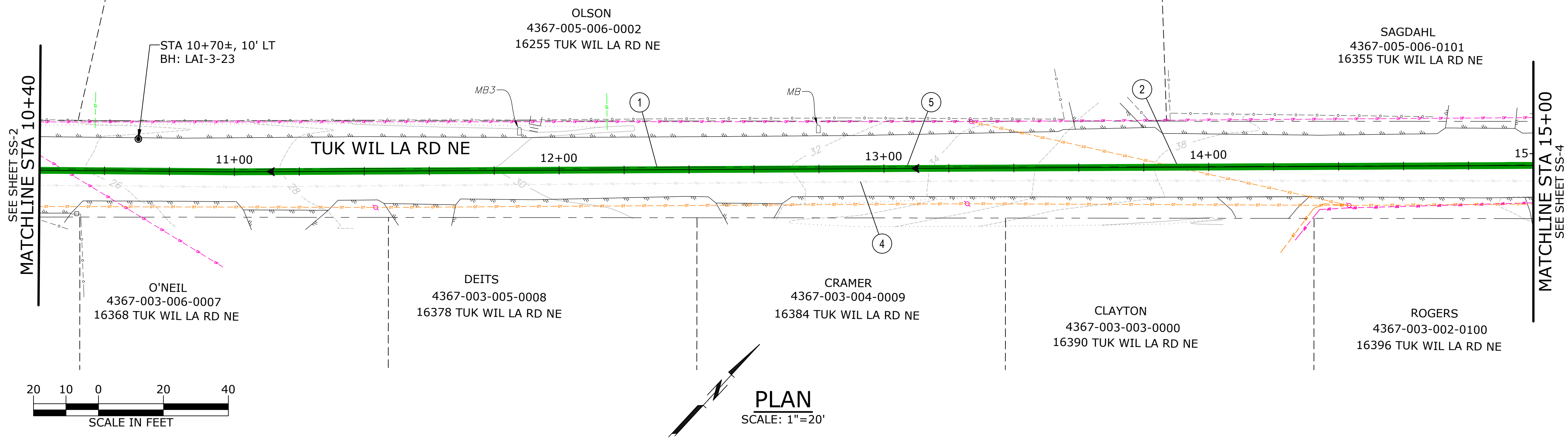
**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**

**SEWER PLAN AND PROFILE
STA 5+20 TO STA 10+40**

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET
SS-2
10 of 36

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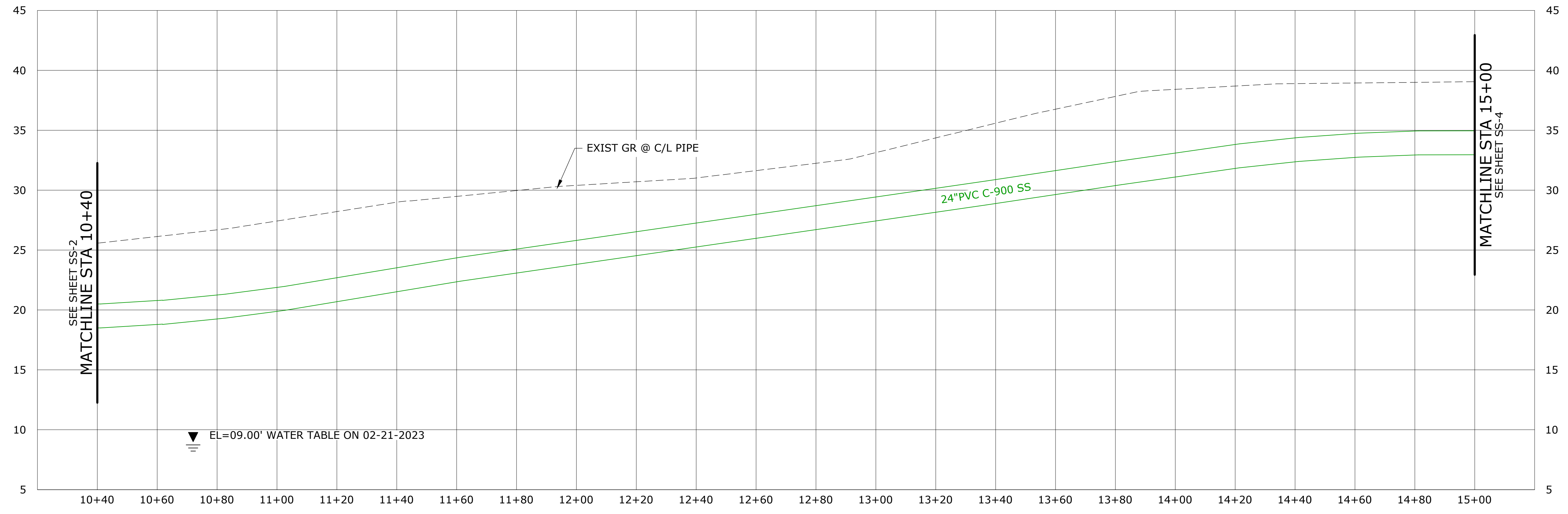
PLAN
SCALE: 1"=20'

NOTES:

1. IT IS CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES. AVOID EXISTING UTILITIES (WATER, NATURAL GAS, ELECTRICITY, CABLE/COMMUNICATIONS, STORM, IRRIGATION, ETC.) AND ASSOCIATED STRUCTURES. IF THE WORK REQUIRES THAT EXISTING UTILITIES BE PERMANENTLY OR TEMPORARILY RELOCATED, THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY AND THE UTILITY.
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4. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL GROUNDWATER INFORMATION.
5. INSTALL TRACER WIRE VALVE CANS PER DETAIL 1, SHEET SS-13, EVERY 450 FEET (MAX).

CONSTRUCTION NOTES:

- ① CONSTRUCTION CL EQUALS PROPOSED PIPE CL, SEE SURVEY CONTROL PLAN, SHT G-4 & G-5
- ② SSFM TRENCH SECTION PER DET 2, SHT SS-13
- ③ NOT USED
- ④ CAP, FILL WITH GROUT, AND ABANDON EX SEWER MAIN AFTER THE NEW FORCEMAIN HAS ENTERED SERVICE
- ⑤ 24"Ø PVC AWWA C-900 DR25 PIPE

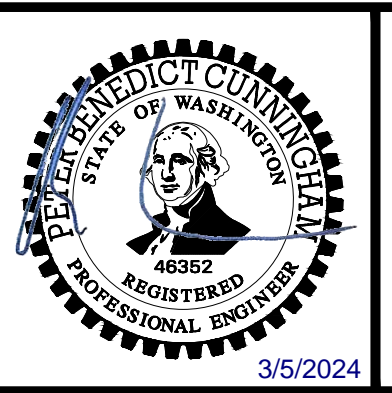


PROFILE
SCALE: 1"=20' HORIZ, 1"=5' VERT

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
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CJM DESIGNED
EJJ DRAWN
EKS CHECKED





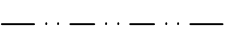

JOHNSON TO NORUM
SEWER MAIN REPLACEMENT
In Partnership with City of Poulsbo

SEWER PLAN AND PROFILE
STA 10+40 TO STA 15+00

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET
SS-3
11 of 36

WETLAND A LEGEND

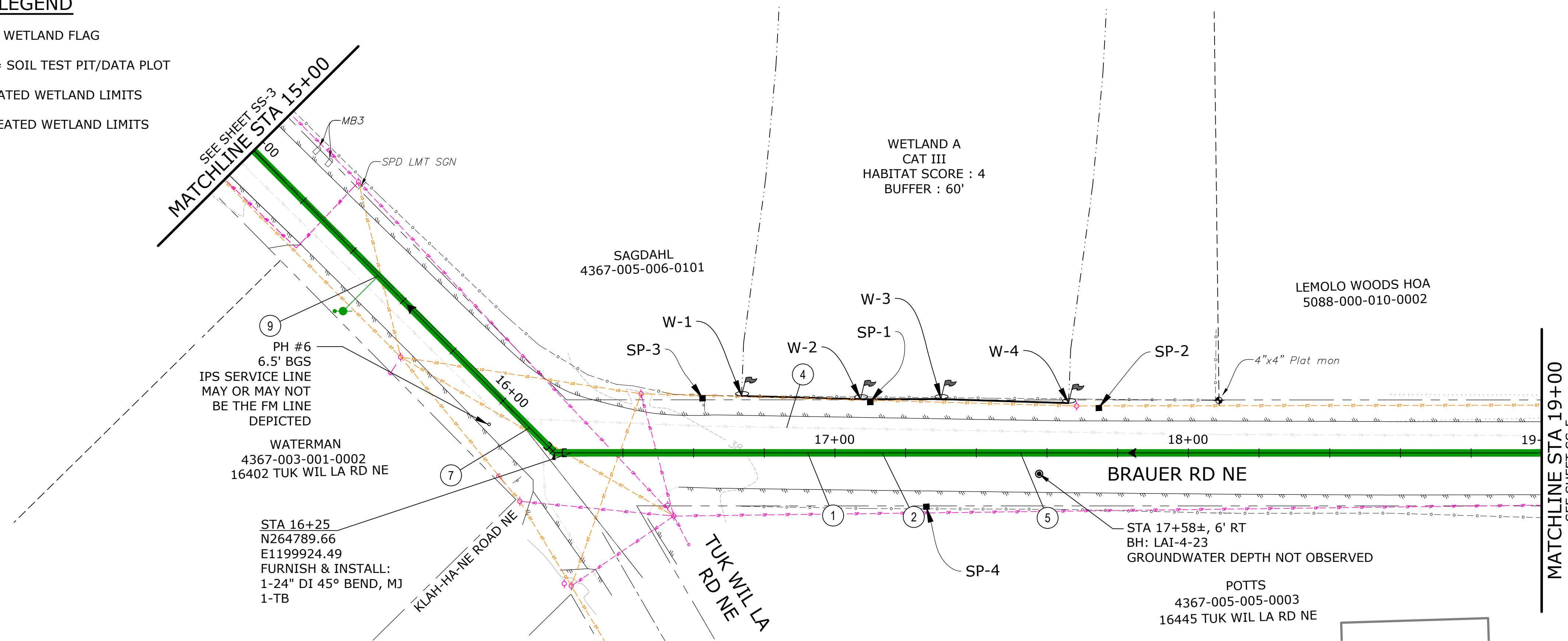
-  W-X = WETLAND FLAG
-  SP-X = SOIL TEST PIT/DATA PLOT
-  ESTIMATED WETLAND LIMITS
-  DELINEATED WETLAND LIMITS

NOTES:

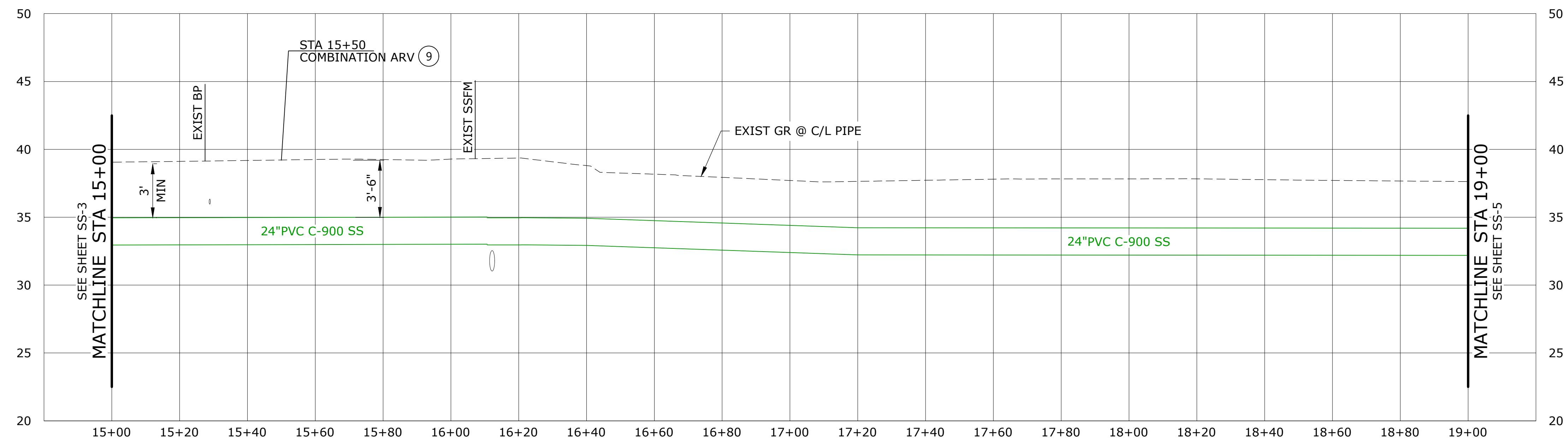
1. IT IS CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES. AVOID EXISTING UTILITIES (WATER, NATURAL GAS, ELECTRICITY, CABLE/COMMUNICATIONS, STORM, IRRIGATION, ETC.) AND ASSOCIATED STRUCTURES. IF THE WORK REQUIRES THAT EXISTING UTILITIES BE PERMANENTLY OR TEMPORARILY RELOCATED, THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY AND THE UTILITY.
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5. INSTALL TRACER WIRE VALVE CANS PER DETAIL 1, SHEET SS-13, EVERY 450 FEET (MAX).

CONSTRUCTION NOTES:

- ① CONSTRUCTION CL EQUALS PROPOSED PIPE CL, SEE SURVEY CONTROL PLAN, SHT G-4 & G-5
- ② SSFM TRENCH SECTION PER DET 2, SHT SS-13
- ③ NOT USED
- ④ CAP, FILL WITH GROUT, AND ABANDON EX SEWER MAIN AFTER THE NEW FORCEMAIN HAS ENTERED SERVICE
- ⑤ 24"Ø PVC AWWA C-900 DR25 PIPE
- ⑦ APPROX LOCATION OF IPS COLLECTION HEADER. CONTRACTOR SHALL POTHOLE IN ADVANCE TO DETERMINE SIZE AND LOCATION, PROCURE PARTS, AND RECONNECT THE LINE TO NEW SEWER MAIN PER DET 1, SHT IPS-2.
- ⑨ INSTALL COMBINATION AIR VACUUM VALVE IN VAULT AT A HIGH POINT IN THE MAIN AND SLOPE PIPE CONTINUOUSLY UP TO THE ARV FROM EACH SIDE PER DET 2, SHT SS-15



PLAN
SCALE: 1"=20'



PROFILE
SCALE: 1"=20' HORIZ, 1"=5' VERT

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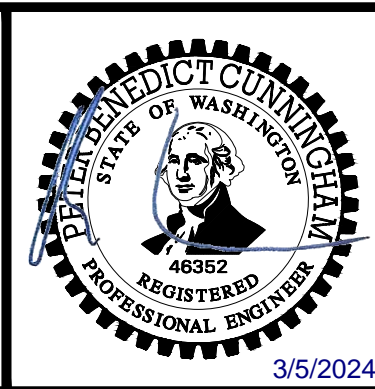
NO.	DATE	BY	REVISION

NOTICE

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CJM
DESIGNED
EJJ
DRAWN
EKS
CHECKED



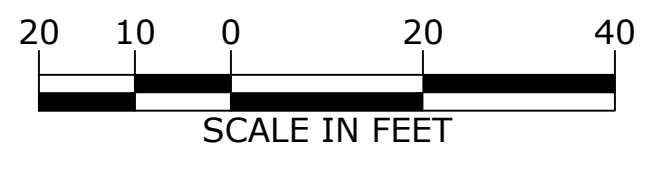
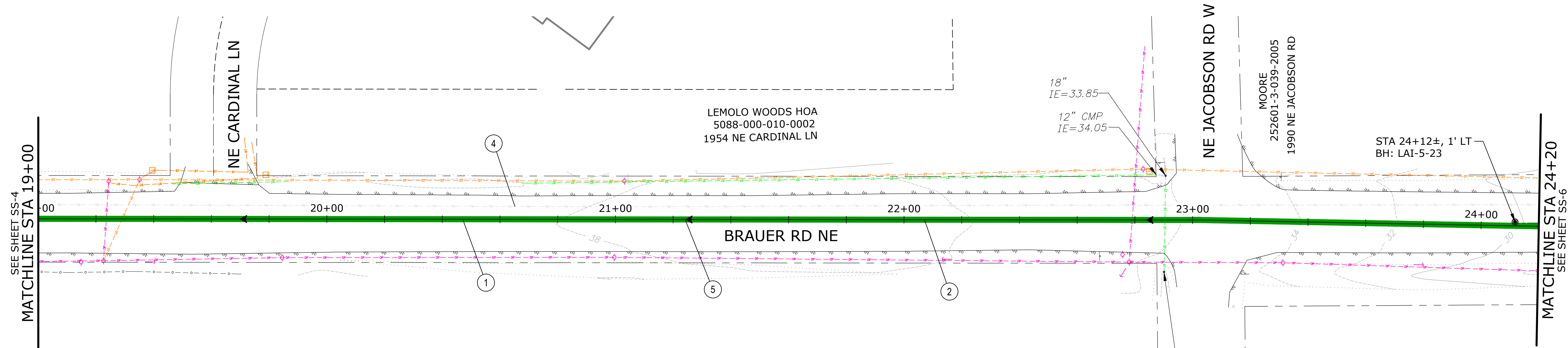
**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**

**SEWER PLAN AND PROFILE
STA 15+00 TO STA 19+00**

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET
SS-4
12 of 36

N:\Projects\22\W220438WA.00 - Poulsbo, WA - TO1 Johnson-Norum Pipeline\CAD\Sheets\W220438WA-C.dwg SS-5 2/20/2024 11:19 AM MATT. ESTEP 24.1s (LMS Tech)



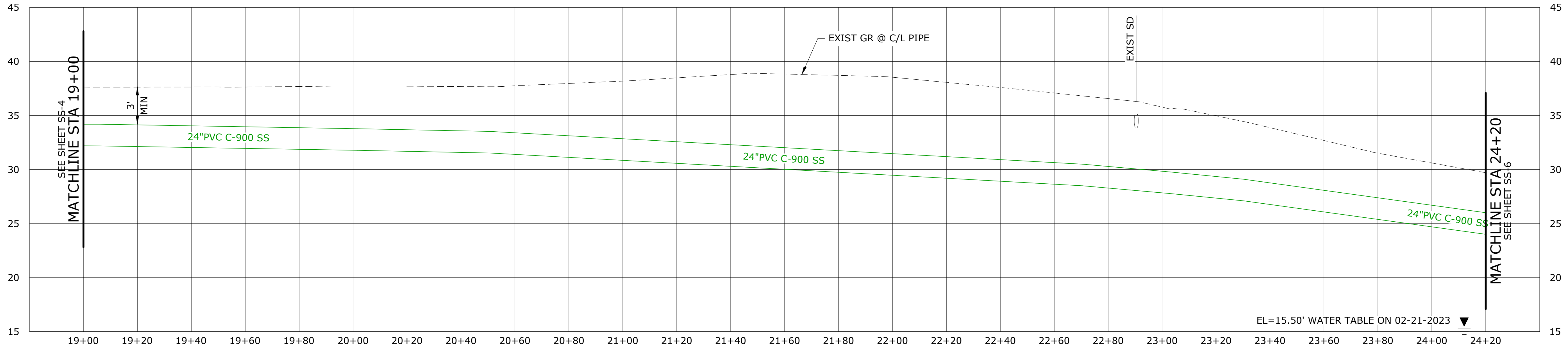
PLAN
SCALE: 1"=20'

NOTES:

- IT IS CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES. AVOID EXISTING UTILITIES (WATER, NATURAL GAS, ELECTRICITY, CABLE/COMMUNICATIONS, STORM, IRRIGATION, ETC.) AND ASSOCIATED STRUCTURES. IF THE WORK REQUIRES THAT EXISTING UTILITIES BE PERMANENTLY OR TEMPORARILY RELOCATED, THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY AND THE UTILITY.
- SLOPE PIPE AND TRENCH CONTINUOUSLY UPWARD TOWARD AIR VALVES AND MANHOLES, WITH NO INTERMEDIATE HIGH POINTS OR BELLIES.
- EXISTING SEWER MUST REMAIN IN SERVICE AT ALL TIMES UNTIL NEW SEWER MAIN IS IN OPERATION AND ACCEPTED BY THE CITY AND COUNTY.
- REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL GROUNDWATER INFORMATION.
- INSTALL TRACER WIRE VALVE CANS PER DETAIL 1, SHEET SS-13, EVERY 450 FEET (MAX).

CONSTRUCTION NOTES:

- CONSTRUCTION CL EQUALS PROPOSED PIPE CL, SEE SURVEY CONTROL PLAN, SHT G-4 & G-5
- SSFM TRENCH SECTION PER DET 2, SHT SS-13
- NOT USED
- CAP, FILL WITH GROUT, AND ABANDON EX SEWER MAIN AFTER THE NEW FORCEMAIN HAS ENTERED SERVICE
- 24"Ø PVC AWWA C-900 DR25 PIPE

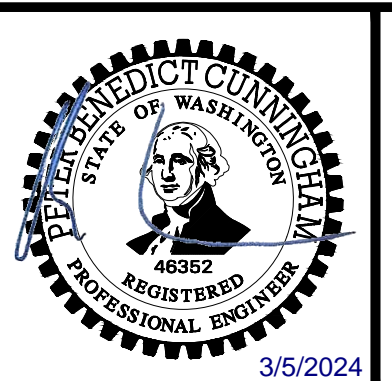


PROFILE
SCALE: 1"=20' HORIZ, 1"=5' VERT

NO.	DATE	BY	REVISION

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

CJM
DESIGNED
EJJ
DRAWN
EKS
CHECKED



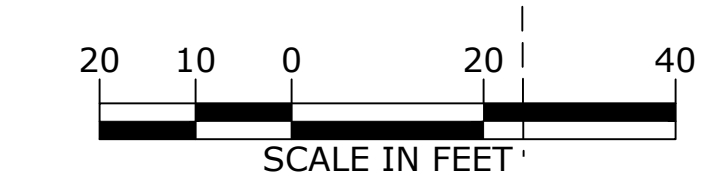
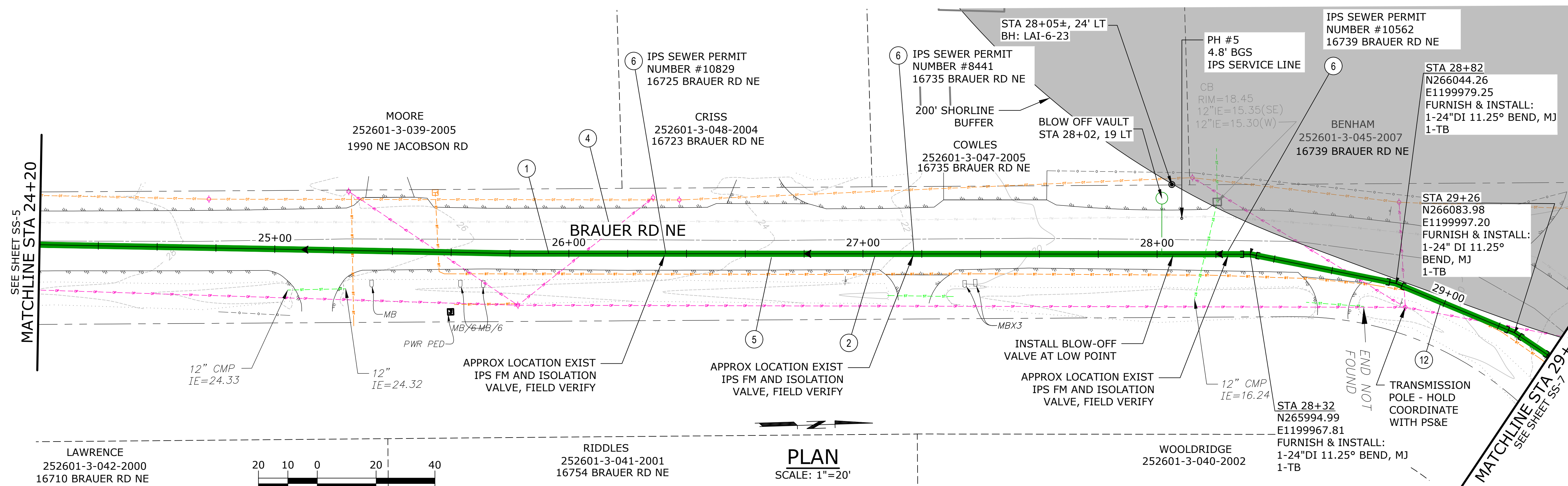
JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT

SEWER PLAN AND PROFILE
STA 19+00 TO STA 24+20

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET
SS-5
13 of 36

N:\Projects\22\W220438WA\00 - Poulsbo, WA - TO1 Johnson-Norum Pipeline\CAD\Sheets\W220438WA-C.dwg SS-6 2/20/2024 11:19 AM MATT. ESTEP 24.1s (LMS Tech)

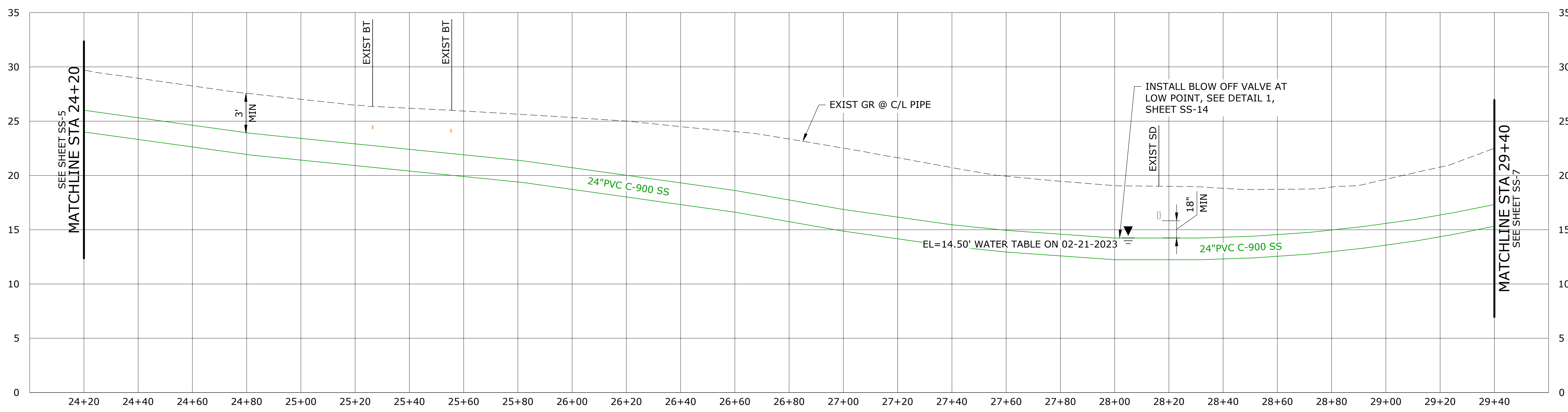


PLAN
SCALE: 1"=20'

CONSTRUCTION NOTES:

- ① CONSTRUCTION CL EQUALS PROPOSED PIPE CL, SEE SURVEY CONTROL PLAN, SHT G-4 & G-5
- ② SSFM TRENCH SECTION PER DET 2, SHT SS-13
- ③ NOT USED
- ④ CAP, FILL WITH GROUT, AND ABANDON EX SEWER MAIN AFTER THE NEW FORCEMAIN HAS ENTERED SERVICE
- ⑤ 24"Ø PVC AWWA C-900 DR25 PIPE
- ⑥ CONNECT TO EXISTING IPS PER DET 1, SHT IPS-2 CONTRACTOR TO DETERMINE SIZE AND LOCATION OF IPS PIPING.
- ⑫ RELOCATE EXISTING BURIED TELEPHONE TO 24" AWAY FROM OUTSIDE EDGE OF PROPOSED SEWER PIPE. LOCATE BURIED TELEPHONE AND COORDINATE WITH TELEPHONE LINE UTILITY OWNER BEFORE PERFORMING WORK.

- NOTES:**
1. IT IS CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES. AVOID EXISTING UTILITIES (WATER, NATURAL GAS, ELECTRICITY, CABLE/COMMUNICATIONS, STORM, IRRIGATION, ETC.) AND ASSOCIATED STRUCTURES. IF THE WORK REQUIRES THAT EXISTING UTILITIES BE PERMANENTLY OR TEMPORARILY RELOCATED, THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY AND THE UTILITY.
 2. SLOPE PIPE AND TRENCH CONTINUOUSLY UPWARD TOWARD AIR VALVES AND MANHOLES, WITH NO INTERMEDIATE HIGH POINTS OR BELLIES.
 3. EXISTING SEWER MUST REMAIN IN SERVICE AT ALL TIMES UNTIL NEW SEWER MAIN IS IN OPERATION AND ACCEPTED BY THE CITY AND COUNTY.
 4. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL GROUNDWATER INFORMATION.
 5. INSTALL TRACER WIRE VALVE CANS PER DETAIL 1, SHEET SS-13, EVERY 450 FEET (MAX).

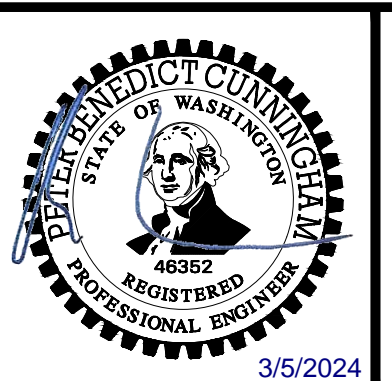


PROFILE
SCALE: 1"=20' HORIZ, 1"=5' VERT

NO.	DATE	BY	REVISION

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

CJM
DESIGNED
EJJ
DRAWN
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JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT

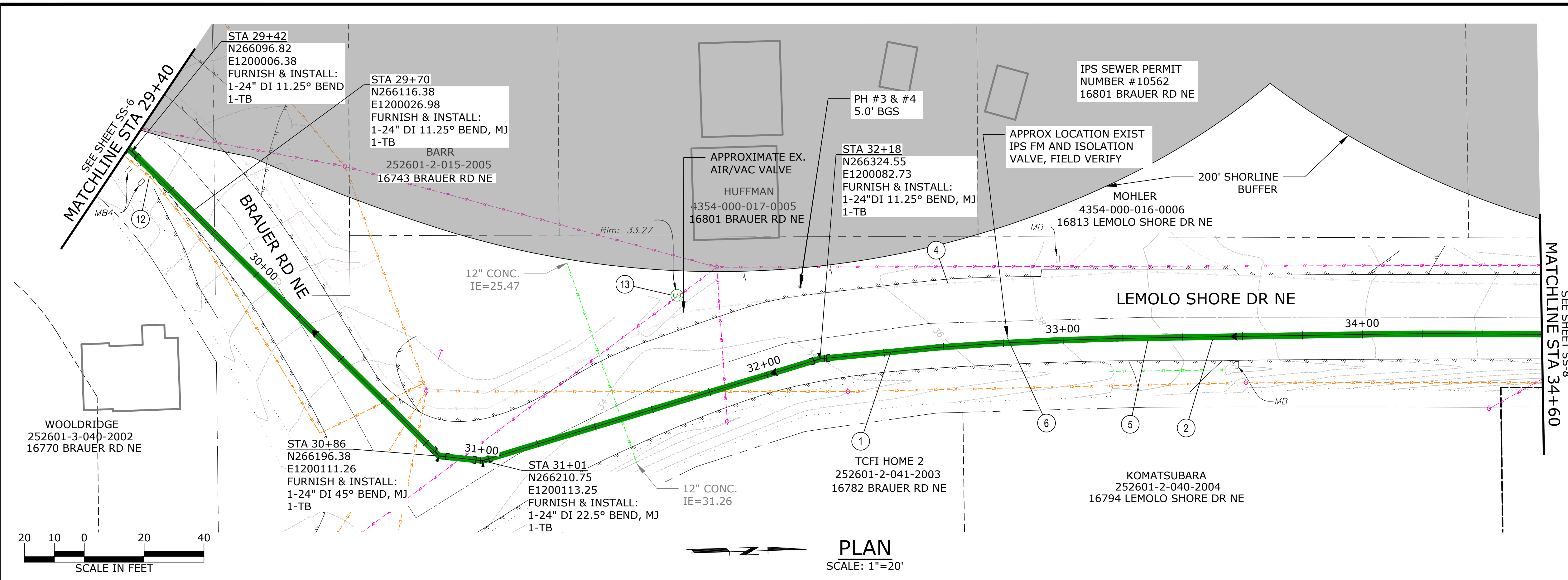
In Partnership with City of Poulsbo

SEWER PLAN AND PROFILE
STA 24+20 TO STA 29+40

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

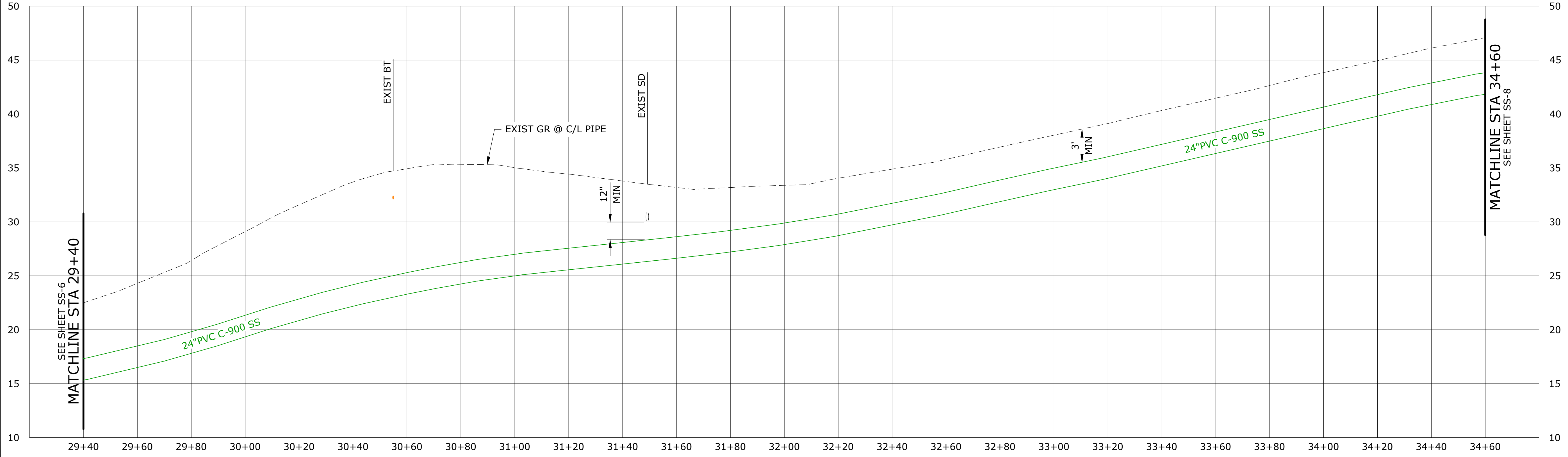
SHEET
SS-6
14 of 36

N:\Projects\22\W220438WA\00 - Poulsbo, WA - TO1 Johnson-Norum Pipeline\CAD\Sheets\W220438WA-C.dwg SS-7 2/20/2024 11:19 AM MATT. ESTEP 24.1s (LMS Tech)



- NOTES:**
- IT IS CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES. AVOID EXISTING UTILITIES (WATER, NATURAL GAS, ELECTRICITY, CABLE/COMMUNICATIONS, STORM, IRRIGATION, ETC.) AND ASSOCIATED STRUCTURES. IF THE WORK REQUIRES THAT EXISTING UTILITIES BE PERMANENTLY OR TEMPORARILY RELOCATED, THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY AND THE UTILITY.
 - SLOPE PIPE AND TRENCH CONTINUOUSLY UPWARD TOWARD AIR VALVES AND MANHOLES, WITH NO INTERMEDIATE HIGH POINTS OR BELLIES.
 - EXISTING SEWER MUST REMAIN IN SERVICE AT ALL TIMES UNTIL NEW SEWER MAIN IS IN OPERATION AND ACCEPTED BY THE CITY AND COUNTY.
 - REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL GROUNDWATER INFORMATION.
 - INSTALL TRACER WIRE VALVE CANS PER DETAIL 1, SHEET SS-13, EVERY 450 FEET (MAX).

- CONSTRUCTION NOTES:**
- CONSTRUCTION CL EQUALS PROPOSED PIPE CL, SEE SURVEY CONTROL PLAN, SHT G-4 & G-5
 - SSFM TRENCH SECTION PER DET 2, SHT SS-13
 - NOT USED
 - CAP, FILL WITH GROUT, AND ABANDON EX SEWER MAIN AFTER THE NEW FORCEMAIN HAS ENTERED SERVICE
 - 24"Ø PVC AWWA C-900 DR25 PIPE
 - CONNECT TO EXISTING IPS PER DET 1, SHT IPS-2. CONTRACTOR TO DETERMINE SIZE AND LOCATION OF IPS PIPING.
 - RELOCATE EXISTING BURIED TELEPHONE TO 24" AWAY FROM OUTSIDE EDGE OF PROPOSED SEWER PIPE. LOCATE BURIED TELEPHONE AND COORDINATE WITH TELEPHONE LINE UTILITY OWNER BEFORE PERFORMING WORK.
 - REMOVE EXISTING AIR VALVE, VAULT, AND ACCESSORIES. CAP EX PIPE. BACKFILL WITH NATIVE MATERIAL PER WSDOT 9-03.15.



PROFILE
SCALE: 1"=20' HORIZ, 1"=5' VERT

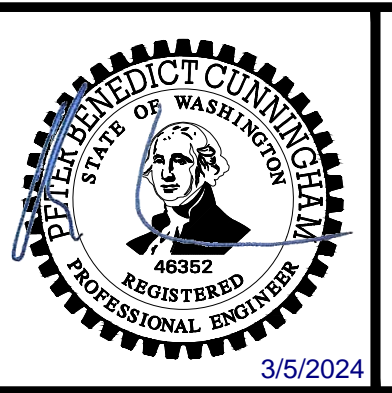
NO.	DATE	BY	REVISION

NOTICE

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CJM DESIGNED
EJJ DRAWN
EKS CHECKED



JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT

In Partnership with City of Poulsbo

SEWER PLAN AND PROFILE
STA 29+40 TO STA 34+60

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

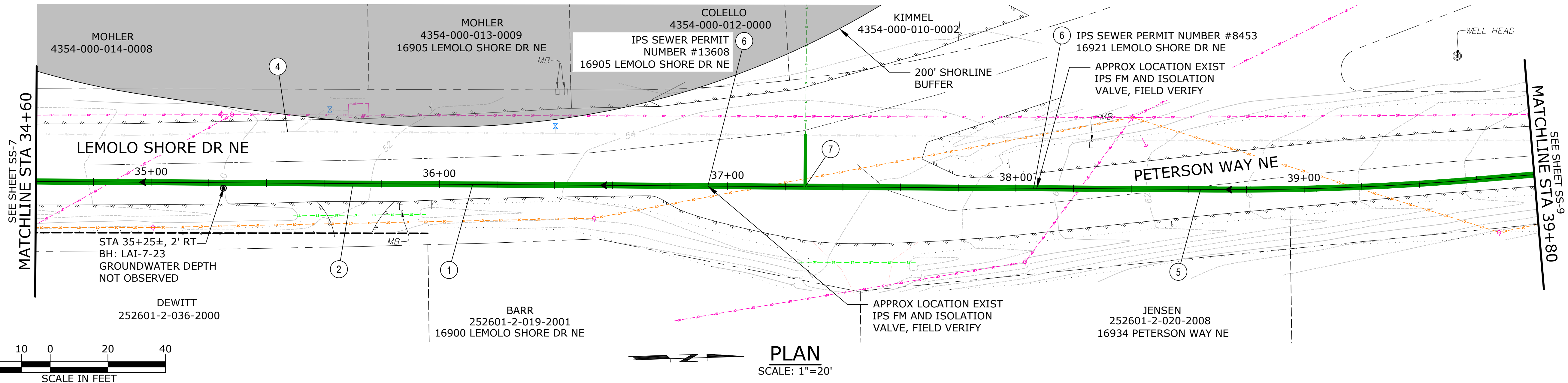
SHEET
SS-7
15 of 36

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NOTES:

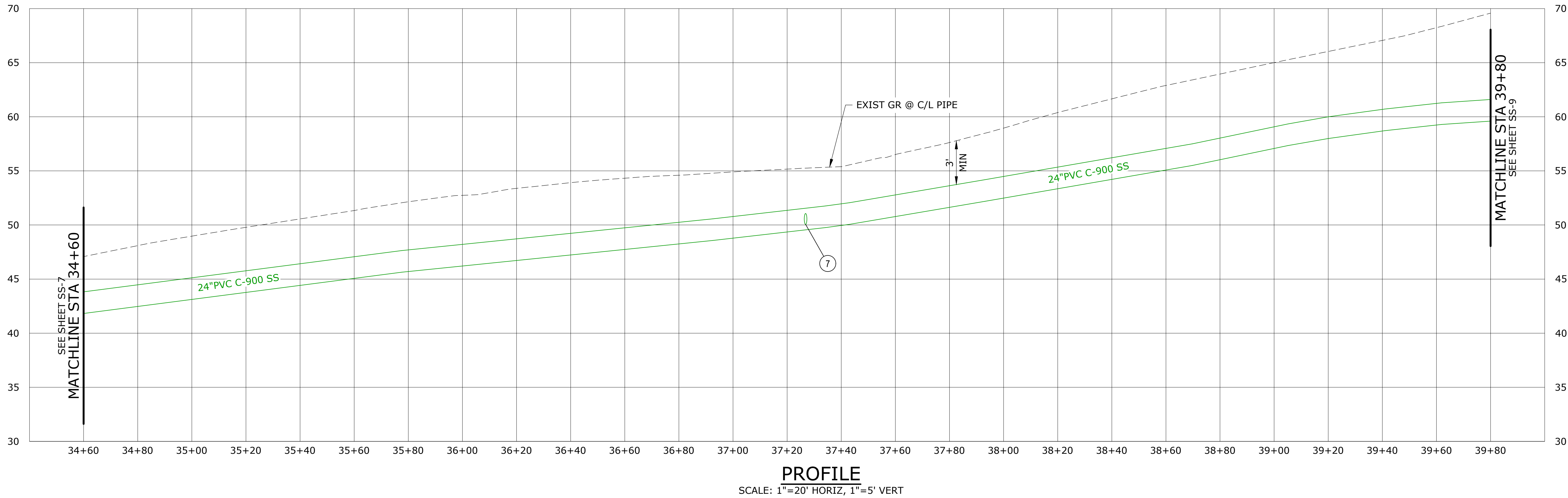
1. IT IS CONTRACTORS RESPONSIBILITY TO LOCATE ALL UTILITIES. AVOID EXISTING UTILITIES (WATER, NATURAL GAS, ELECTRICITY, CABLE/COMMUNICATIONS, STORM, IRRIGATION, ETC.) AND ASSOCIATED STRUCTURES. IF THE WORK REQUIRES THAT EXISTING UTILITIES BE PERMANENTLY OR TEMPORARILY RELOCATED, THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY AND THE UTILITY.
2. SLOPE PIPE AND TRENCH CONTINUOUSLY UPWARD TOWARD AIR VALVES AND MANHOLES, WITH NO INTERMEDIATE HIGH POINTS OR BELLIES.

3. CONTRACTOR SHALL POTHOLE IN ADVANCE TO DETERMINE SIZE AND LOCATION, PROCURE PARTS, AND RECONNECT THE EXISTING IPS COLLECTION LINE TO THE NEW SEWER MAIN.
4. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL GROUNDWATER INFORMATION.
5. INSTALL TRACER WIRE VALVE CANS PER DETAIL 1, SHEET SS-13, EVERY 450 FEET (MAX).



CONSTRUCTION NOTES:

- 1 CONSTRUCTION CL EQUALS PROPOSED PIPE CL, SEE SURVEY CONTROL PLAN, SHT G-4 & G-5
- 2 SSFM TRENCH SECTION PER DET 2, SHT SS-13
- 3 NOT USED
- 4 CAP, FILL WITH GROUT, AND ABANDON EX SEWER MAIN AFTER THE NEW FORCEMAIN HAS ENTERED SERVICE
- 5 24"Ø PVC AWWA C-900 DR25 PIPE
- 6 CONNECT EXISTING IPS PER DET 1, SHT IPS-2. CONTRACTOR TO DETERMINE SIZE AND LOCATION OF IPS PIPING.
- 7 APPROX LOCATION OF IPS COLLECTION HEADER. CONTRACTOR SHALL POTHOLE IN ADVANCE TO DETERMINE SIZE AND LOCATION, PROCURE PARTS, AND RECONNECT THE LINE TO NEW SEWER MAIN. PER SHEET IPS-2, DETAIL 1



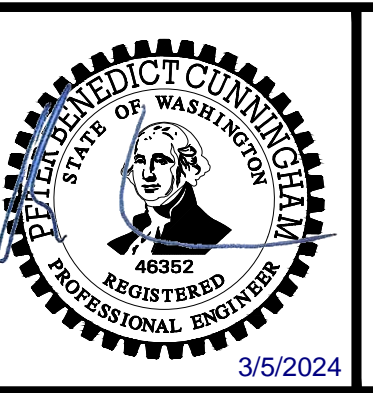
NO.	DATE	BY	REVISION

NOTICE

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CJM
DESIGNED
EJJ
DRAWN
EKS
CHECKED



**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**

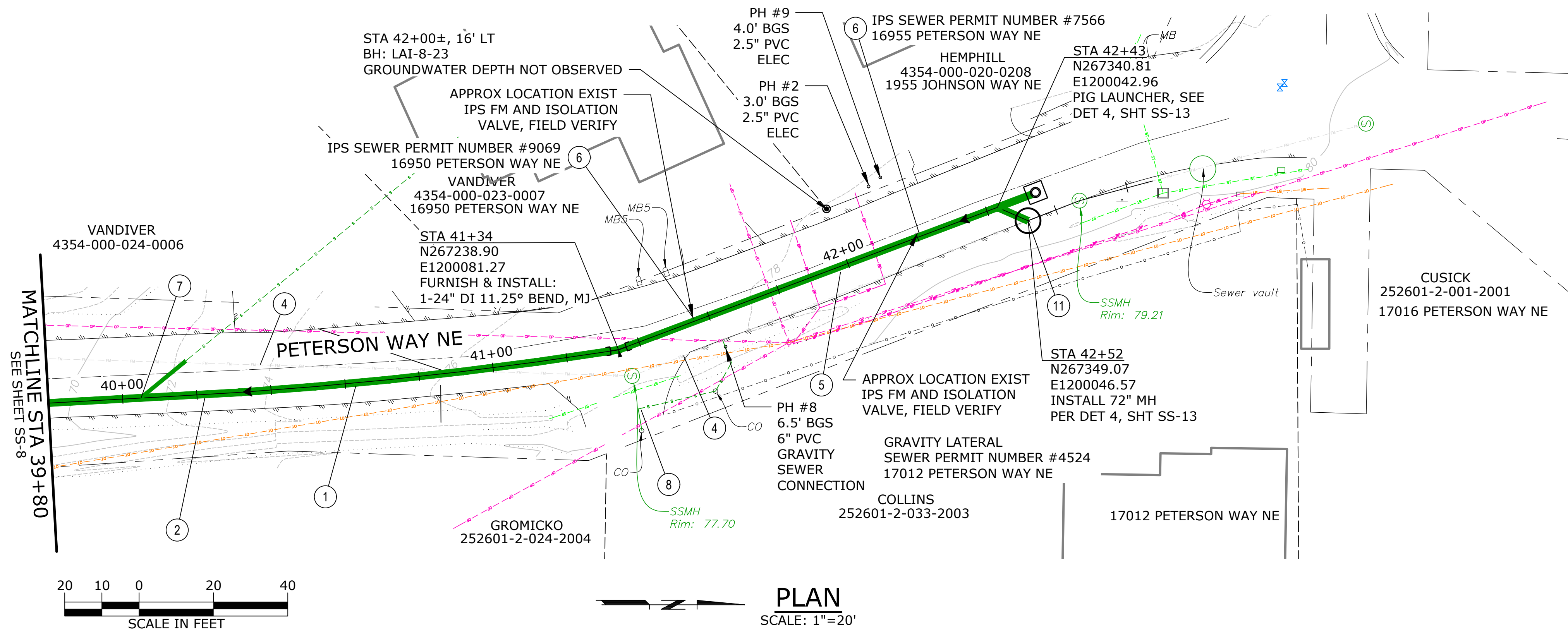
In Partnership with City of Poulsbo

**SEWER PLAN AND PROFILE
STA 34+60 TO STA 39+80**

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

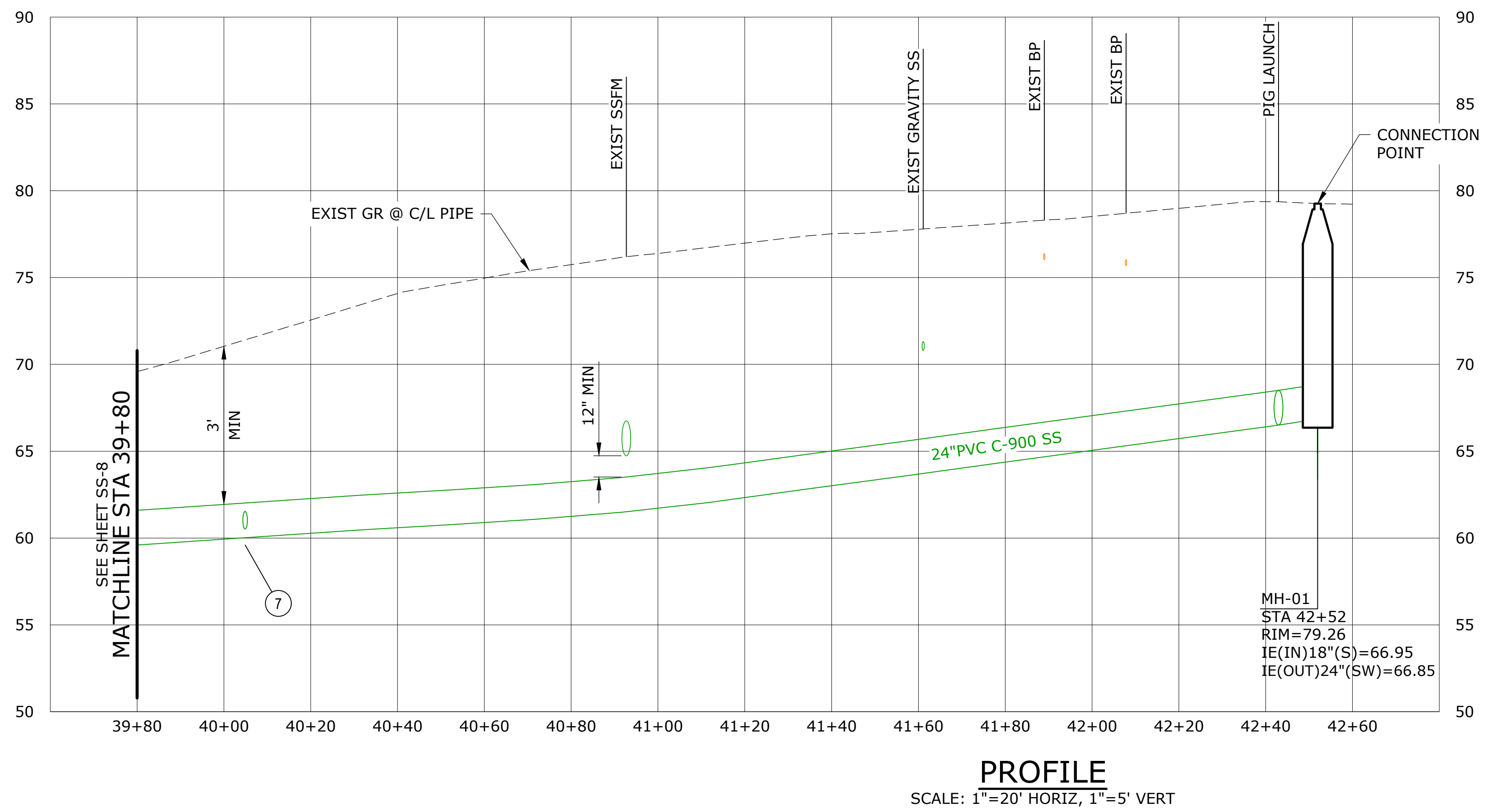
SHEET
SS-8
16 of 36

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- NOTES:**
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 - SLOPE PIPE AND TRENCH CONTINUOUSLY UPWARD TOWARD AIR VALVES AND MANHOLES, WITH NO INTERMEDIATE HIGH POINTS OR BELLIES.
 - CONTRACTOR SHALL POTHOLE IN ADVANCE TO DETERMINE SIZE AND LOCATION, PROCURE PARTS, AND RECONNECT THE EXISTING IPS COLLECTION LINE TO THE NEW SEWER MAIN.
 - REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL GROUNDWATER INFORMATION.
 - INSTALL TRACER WIRE VALVE CANS PER DETAIL 1, SHEET SS-13, EVERY 450 FEET (MAX).

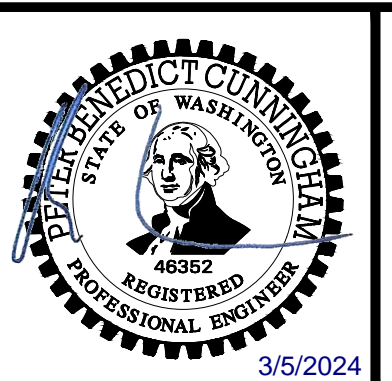
- CONSTRUCTION NOTES:**
- CONSTRUCTION CL EQUALS PROPOSED PIPE CL, SEE SURVEY CONTROL PLAN, SHT G- & G-5
 - SSFM TRENCH SECTION PER DET 2, SHT SS-13
 - NOT USED
 - CAP, FILL WITH GROUT, AND ABANDON EX SEWER MAIN AFTER THE NEW FORCEMAIN HAS ENTERED SERVICE
 - 24"Ø PVC AWWA C-900 DR25 PIPE
 - CONNECT TO EXISTING IPS PER DET 1, SHT IPS-2. CONTRACTOR TO DETERMINE SIZE AND LOCATION OF IPS PIPING.
 - APPROX LOCATION OF IPS COLLECTION HEADER. CONTRACTOR SHALL POTHOLE IN ADVANCE TO DETERMINE SIZE AND LOCATION, PROCURE PARTS, AND RECONNECT THE LINE TO NEW SEWER MAIN.
 - GRAVITY SEWER LATERAL. CONTRACTOR SHALL POTHOLE IN ADVANCE TO DETERMINE SIZE AND LOCATION, PROCURE PARTS, AND RECONNECT THE LINE TO NEW SEWER MAIN.
 - INSTALL 72"Ø MH AT END OF EXISTING 18"Ø PVC C900 PIPE WHERE IT TRANSITIONS TO 14"Ø DI PIPE PER DET 1 AND DET 3, SHT SS-15.



NO.	DATE	BY	REVISION

NOTICE
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CJM DESIGNED
EJJ DRAWN
EKS CHECKED



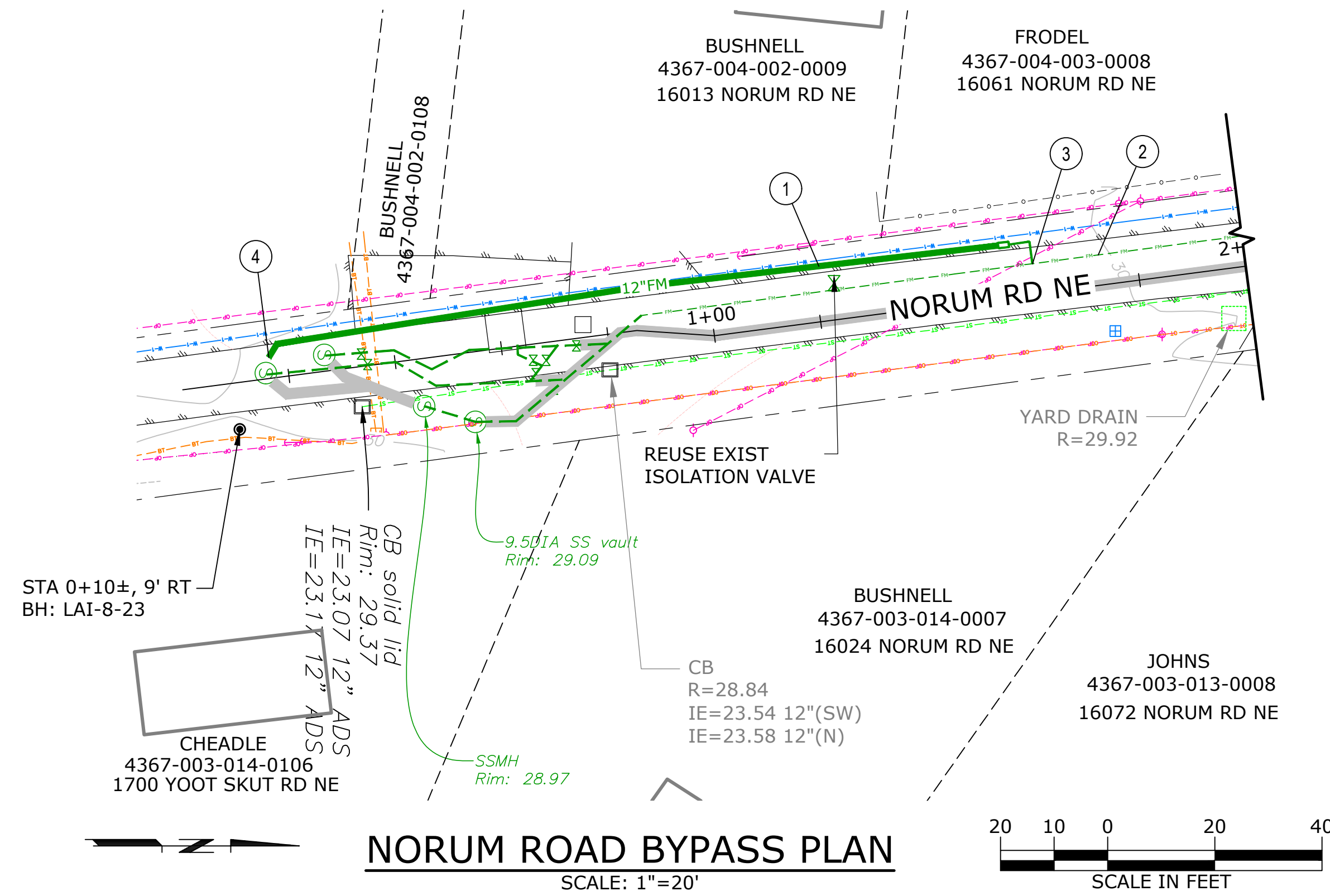
JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT
In Partnership with City of Poulsbo

SEWER PLAN AND PROFILE
STA 39+80 TO STA 43+40

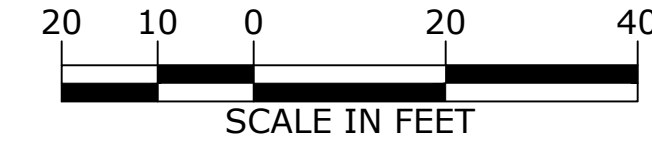
PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET
SS-9
17 of 36

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NORUM ROAD BYPASS PLAN
SCALE: 1"=20'



SUGGESTED SEQUENCING:

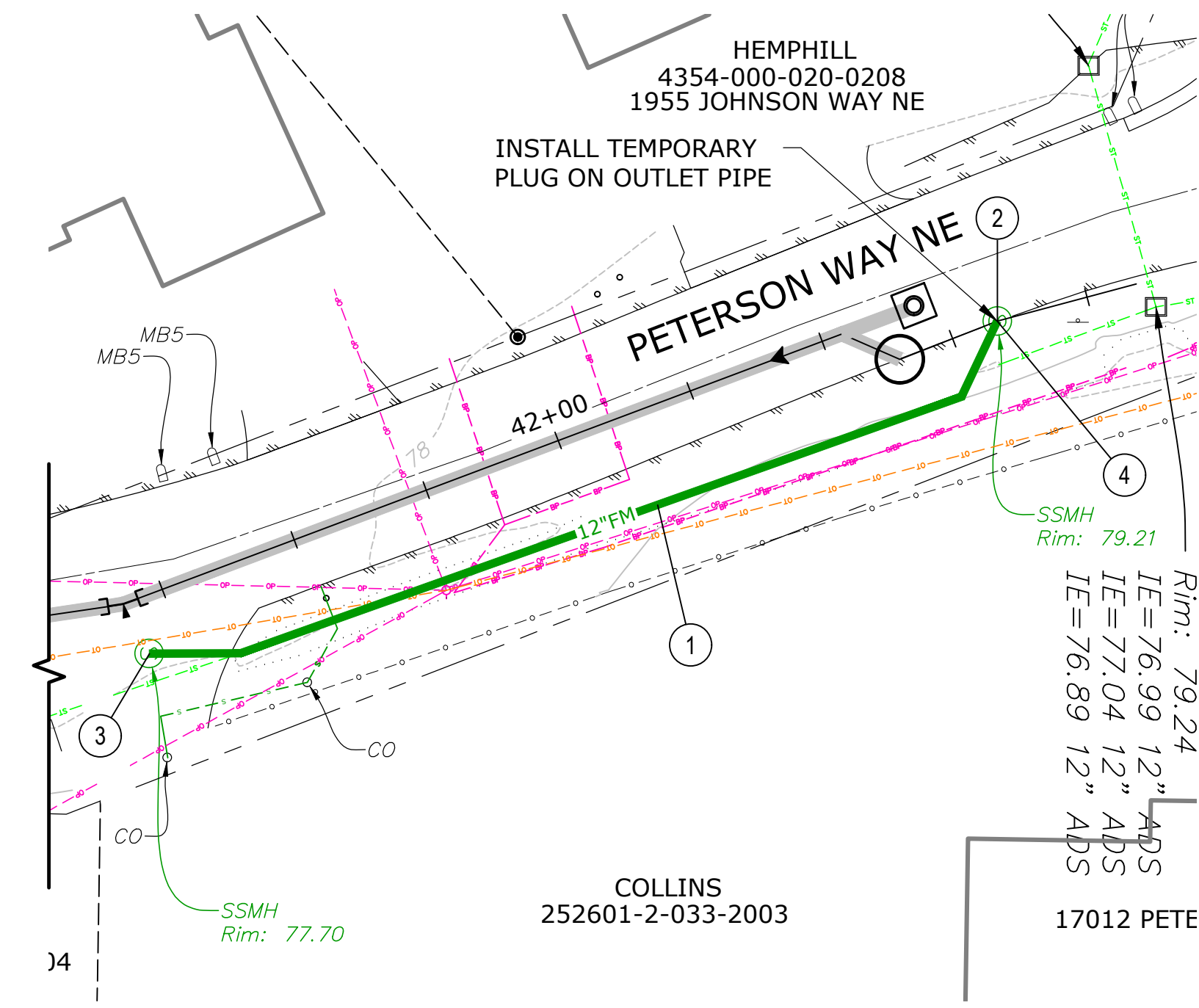
1. INSTALL LINESSTOP AND TEMPORARY BYPASS PIPE AND VALVES.
2. ISOLATE EXIST LINE.
3. CONSTRUCT, TEST, AND COMMISSION NEW PIPE PER PLANS AND SPECIFICATIONS.
4. END BYPASS OPERATION.
5. CLEAN, GROUT, AND ABANDON EXISTING PIPE PER PLANS AND SPECIFICATIONS

CONSTRUCTION NOTES:

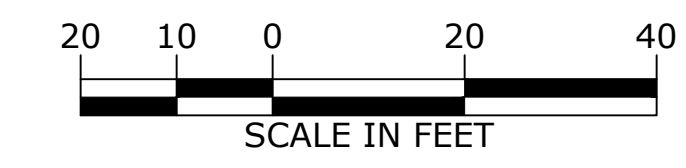
- ① TEMPORARY 12"Ø HDPE SDR 21 SEWER BYPASS PIPE.
- ② INSTALL LINE STOP.
- ③ CONTRACTOR SHALL FIELD VERIFY LOCATIONS, CONDITIONS, AND OPERABILITY OF ALL EXISTING VALVES TO BE USED AS PART OF BYPASS PRIOR TO SUBMITTING THE BYPASS PLAN. REUSE EXISTING BURIED HOT TAP VALVE AT START OF PROPOSED BYPASS ROUTE. SUPPLY FITTINGS AS NEEDED TO BRING PIPE TO SURFACE.
- ④ TERMINATE TEMPORARY BYPASS LINE AT EXIST MANHOLE.

GENERAL BYPASS PUMPING REQUIREMENTS:

1. REFER TO SPECIFICATION SECTION 01 59 00 FOR BYPASS PUMPING REQUIREMENTS.
2. SHOULD THE CONTRACTOR ELECT TO USE TEMPORARY ELECTRIC POWER FOR BYPASS PUMPING, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING TEMPORARY POWER, AND ALL FEES ASSOCIATED WITH THE TEMPORARY POWER CONNECTION AND USE
3. CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A SPCC PLAN FOR BYPASS PUMPING. PROVIDE CLEAN-UP AND DISPOSAL AND CONTAMINATED MATERIAL AND REPORTING FOR ALL SPILLS.
4. BYPASS SHALL BE CAPABLE OF HANDLING SEWER FLOWS UP TO 2,000 GPM. REDUNDANT PUMPS ARE REQUIRED. PUMPS SHALL BE SUBMERSIBLE AND CAPABLE OF DRY OPERATION
5. THE INFORMATION SHOWN ON THIS SHEET SHOWS A POTENTIAL BYPASS PLAN FOR CONSIDERATION BY THE CONTRACTOR AND IS IN NO WAY MEANT TO DICTATE CONTRACTOR MEANS AND METHODS. THE POTENTIAL BYPASS PLAN IS ASSOCIATED WITH KEY ITEMS ONLY. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THESE CONTRACT DOCUMENTS IN DEVELOPING A DETAILED TEMPORARY BYPASS PLAN.



PETERSON WAY BYPASS PLAN
SCALE: 1"=20'



CONSTRUCTION NOTES:

- ① TEMPORARY 12"Ø HDPE SDR 21 SEWER BYPASS PIPE
- ② CONTRACTOR TO DETERMINE MEANS AND METHODS OF BYPASS OPERATIONS
- ③ DIVERT BYPASS TO NEXT DOWNSTREAM MH
- ④ INSTALL TEMPORARY PLUG ON MH OUTLET

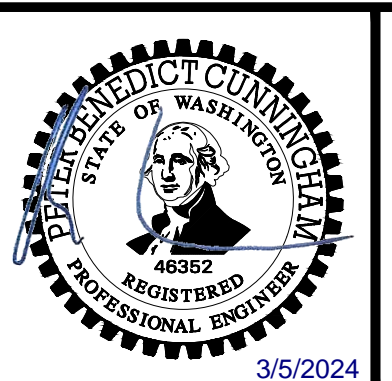
SUGGESTED SEQUENCING:

1. INSTALL BYPASS PUMP AND PIPING IN EXISTING SSMH, DIVERT TO DOWNSTREAM SSMH.
2. PLUG EX PIPE.
3. CONSTRUCT, TEST, AND COMMISSION NEW PIPE PER PLANS AND SPECIFICATIONS.
4. END BYPASS OPERATION.
5. CLEAN, GROUT, AND ABANDON EXISTING PIPE PER PLANS AND SPECIFICATIONS.

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
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CJM DESIGNED
EJJ DRAWN
EKS CHECKED

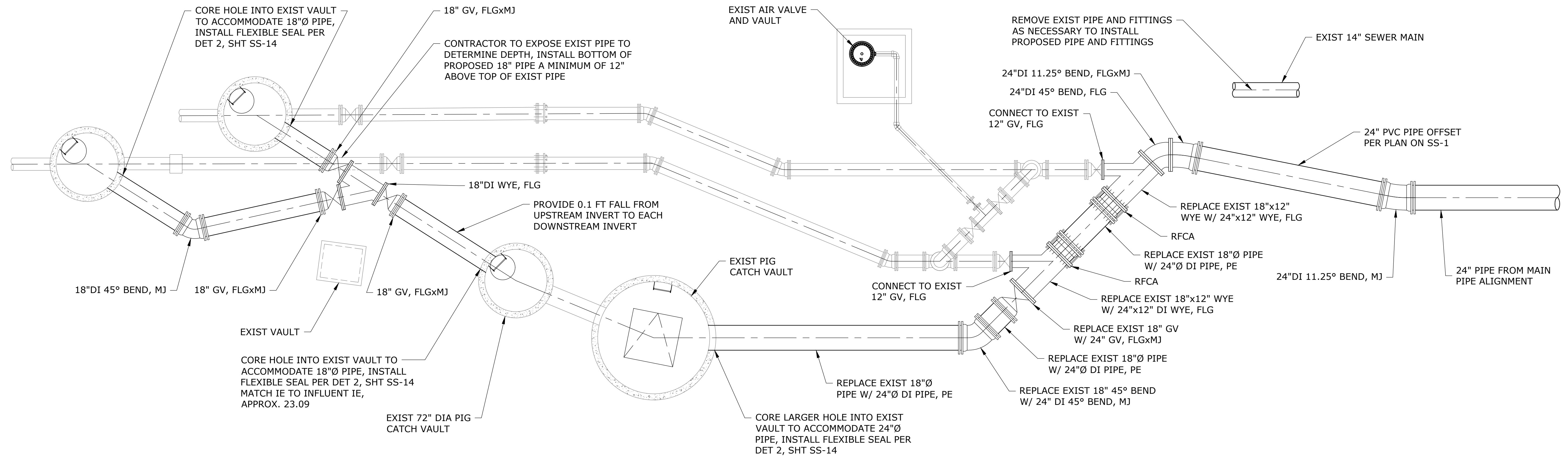


JOHNSON TO NORUM SEWER MAIN REPLACEMENT
In Partnership with City of Poulsbo

TEMPORARY BYPASS PLANS NORUM ROAD & PETERSON WAY - REFERENCE ONLY			
PROJECT NO.:	W220438WA	SCALE:	AS SHOWN
DATE:	MARCH 2024		

SHEET
SS-10
18 of 36

N:\Projects\22\W220438WA.00 - Poulsbo, WA - T01 Johnson-Norum Pipeline\CAD\Sheets\W220438WA-S-11.dwg SS-11 2/20/2024 11:21 AM MATT.ETEP 24.1s (LMS Tech)



SIPHON CONNECTION DETAILS

SCALE: NTS

1
SS-1

NOTES:

1. THIS DRAWING WAS CREATED BASED ON SURFACE SURVEY DATA AND RECORD DRAWINGS AND MAY NOT ACCURATELY DEPICT BURIED OBJECTS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, DEPTHS, AND LOCATIONS AND NOTIFY ENGINEER IF DISCREPANCIES ARE FOUND.

NO.	DATE	BY	REVISION

NOTICE
0 1/2 1
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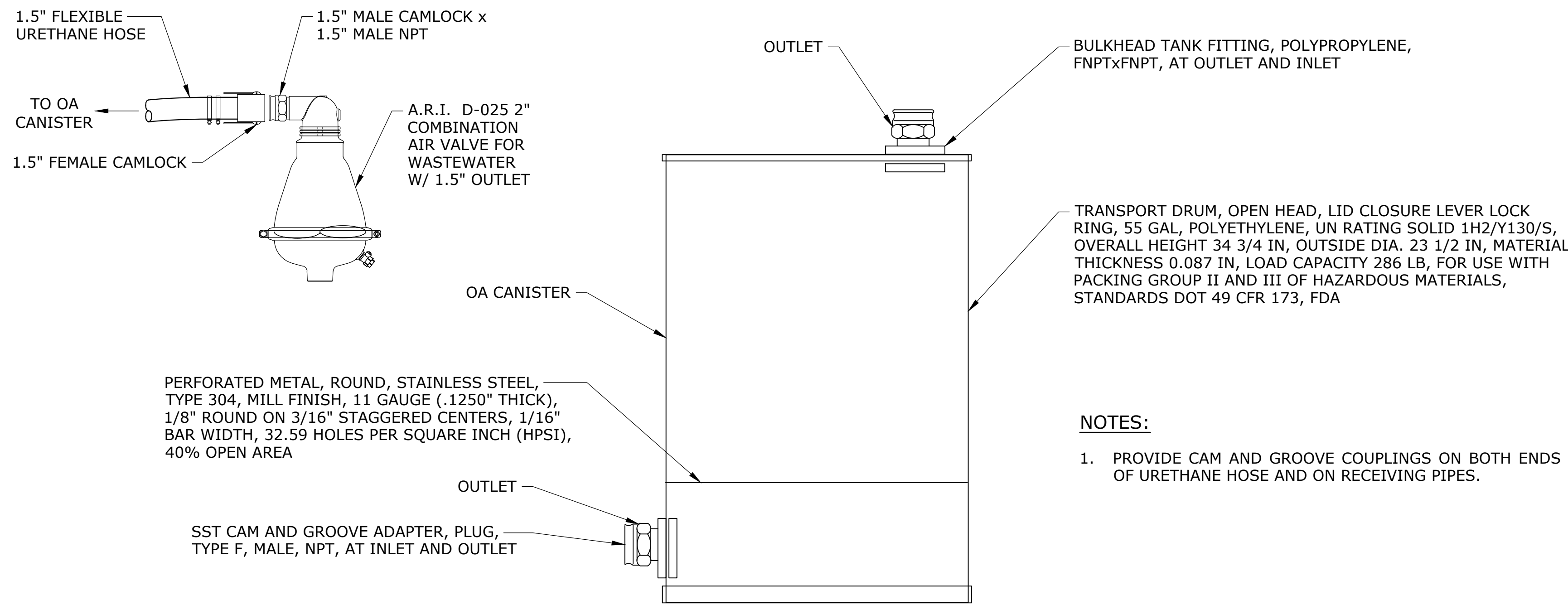
**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**

In Partnership with City of Poulsbo

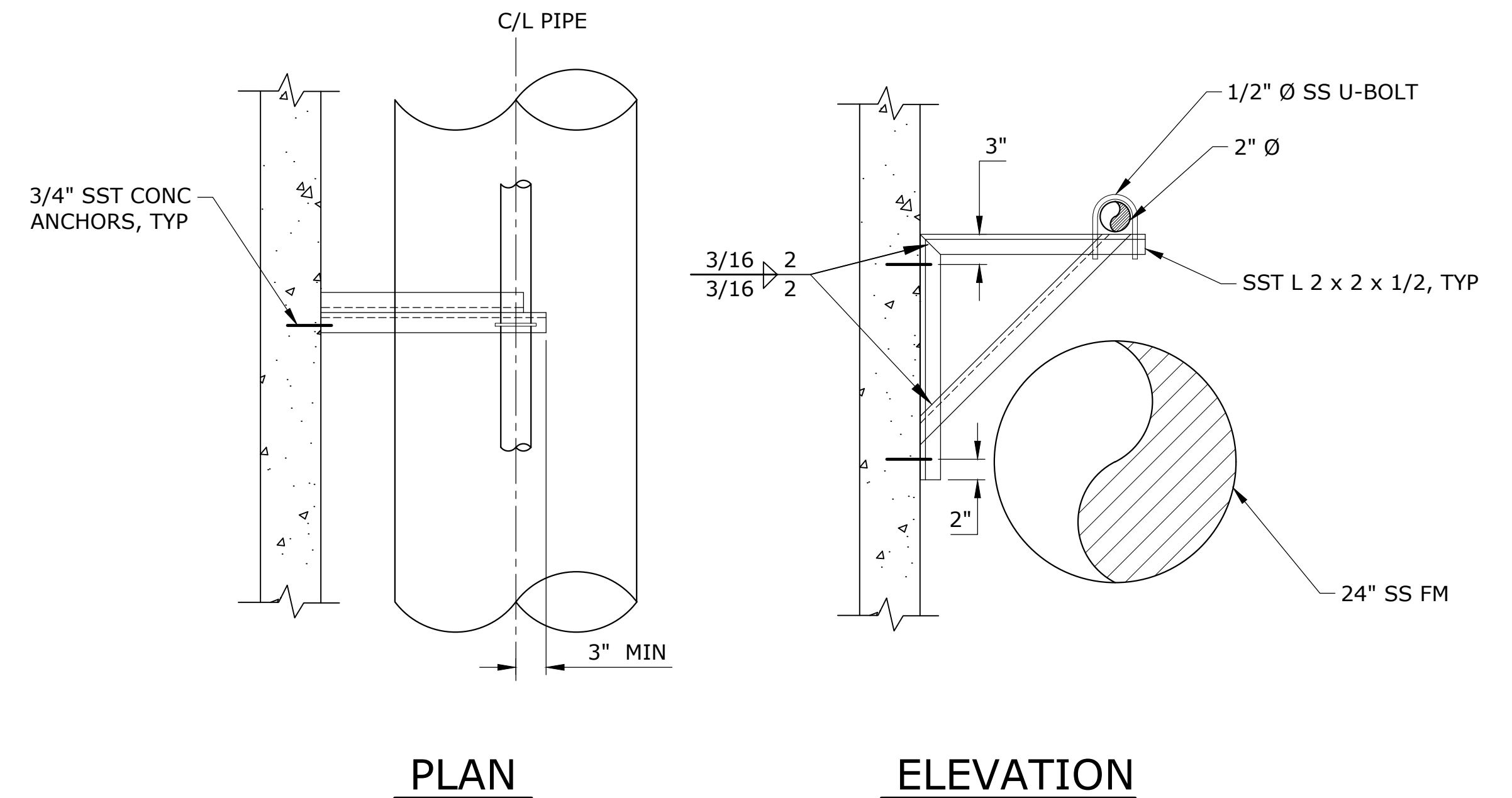
SIPHON CONNECTION DETAILS
PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET
SS-11
19 of 36

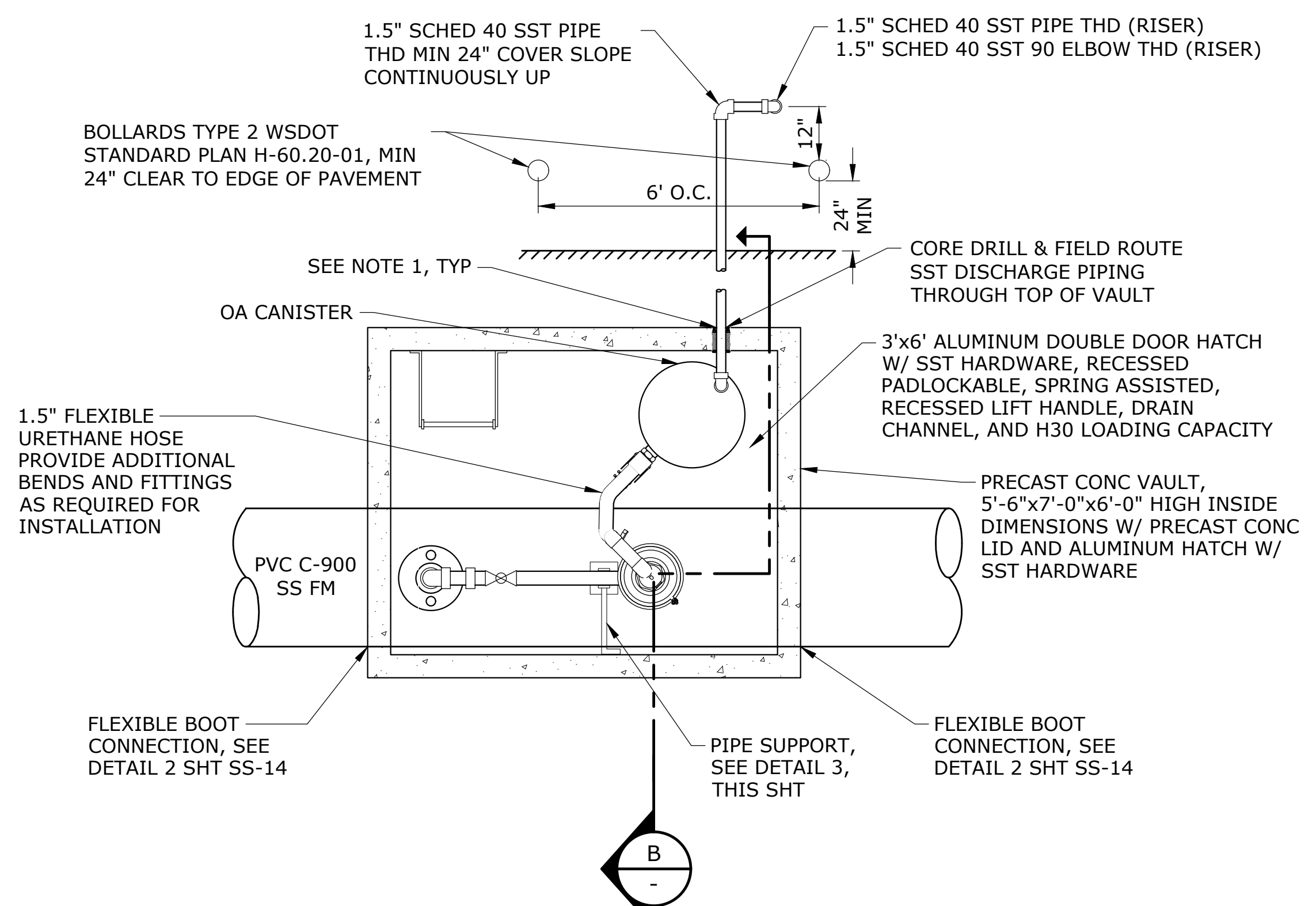
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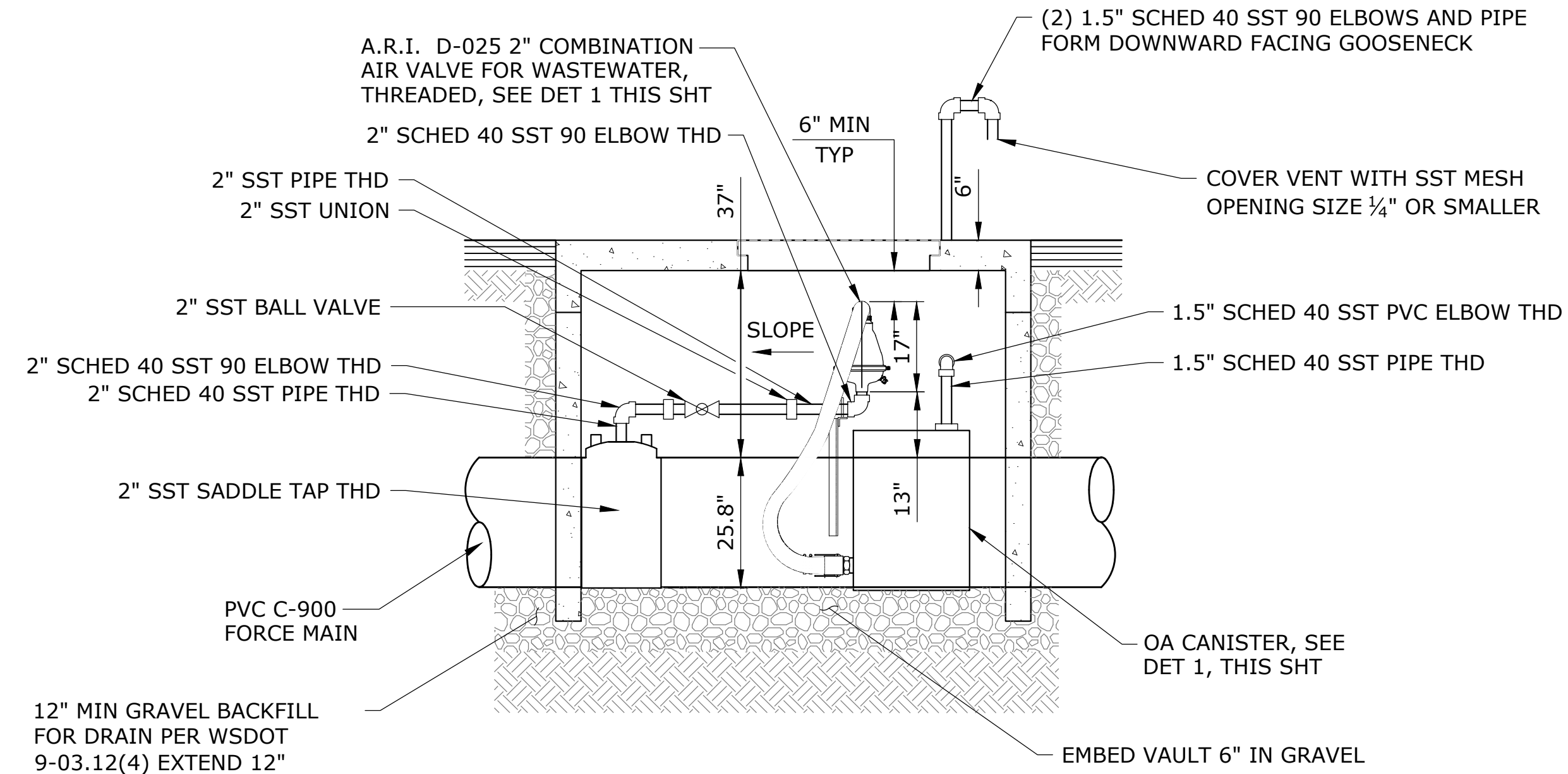
2" ARV VENT AND OA CANISTER DETAIL 1
SCALE: NTS



AIR VAC PIPE SUPPORT 3
SCALE: NTS



3" AIR/VACUUM VALVE DETAIL 2
SCALE: NTS



SECTION B
SCALE: NTS

- NOTES:**
- ALL VAULT PENETRATIONS TO BE SEALED WITH WALL SLEEVE SEALS. USE LINK SEAL IN HOLES AROUND PIPE.
 - INSTALL VAULT HATCH FLUSH WITH FINISH PAVEMENT SURFACE.
 - ALL FITTINGS AND APPURTENANCES SHALL BE 316 SST UNLESS OTHERWISE SPECIFIED. ALUMINUM SHALL NOT BE USED IN WETTED PIPES OR FITTINGS.

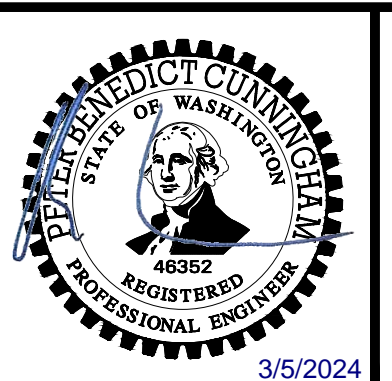
NO.	DATE	BY	REVISION

NOTICE

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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

CJM DESIGNED
EJJ DRAWN
EKS CHECKED



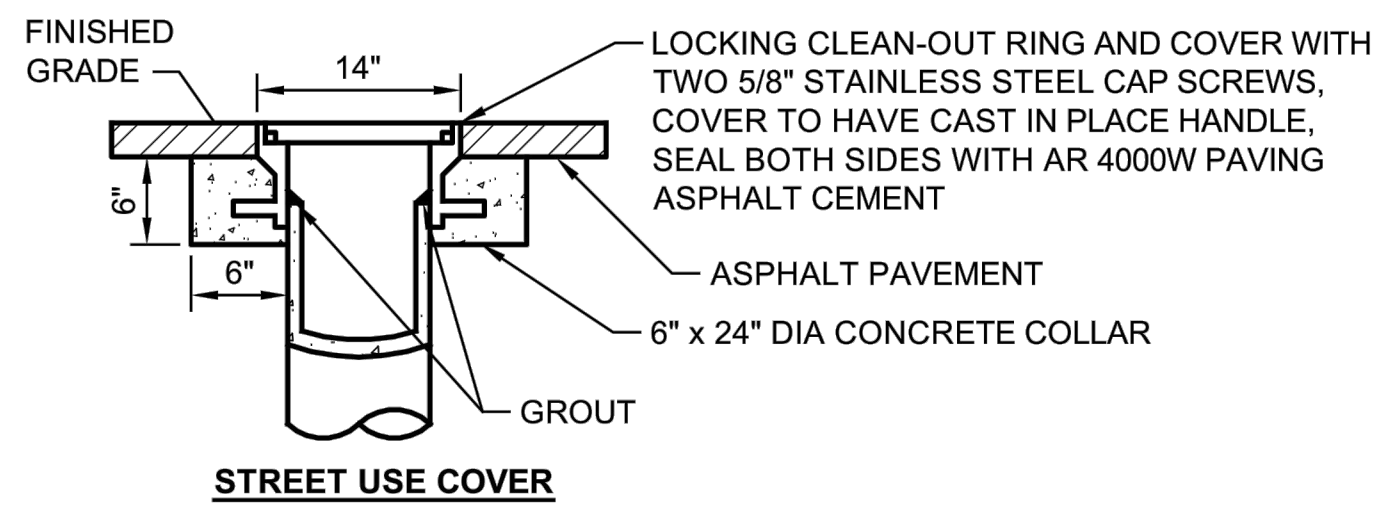
**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**

MISCELLANEOUS SEWER DETAILS - 1

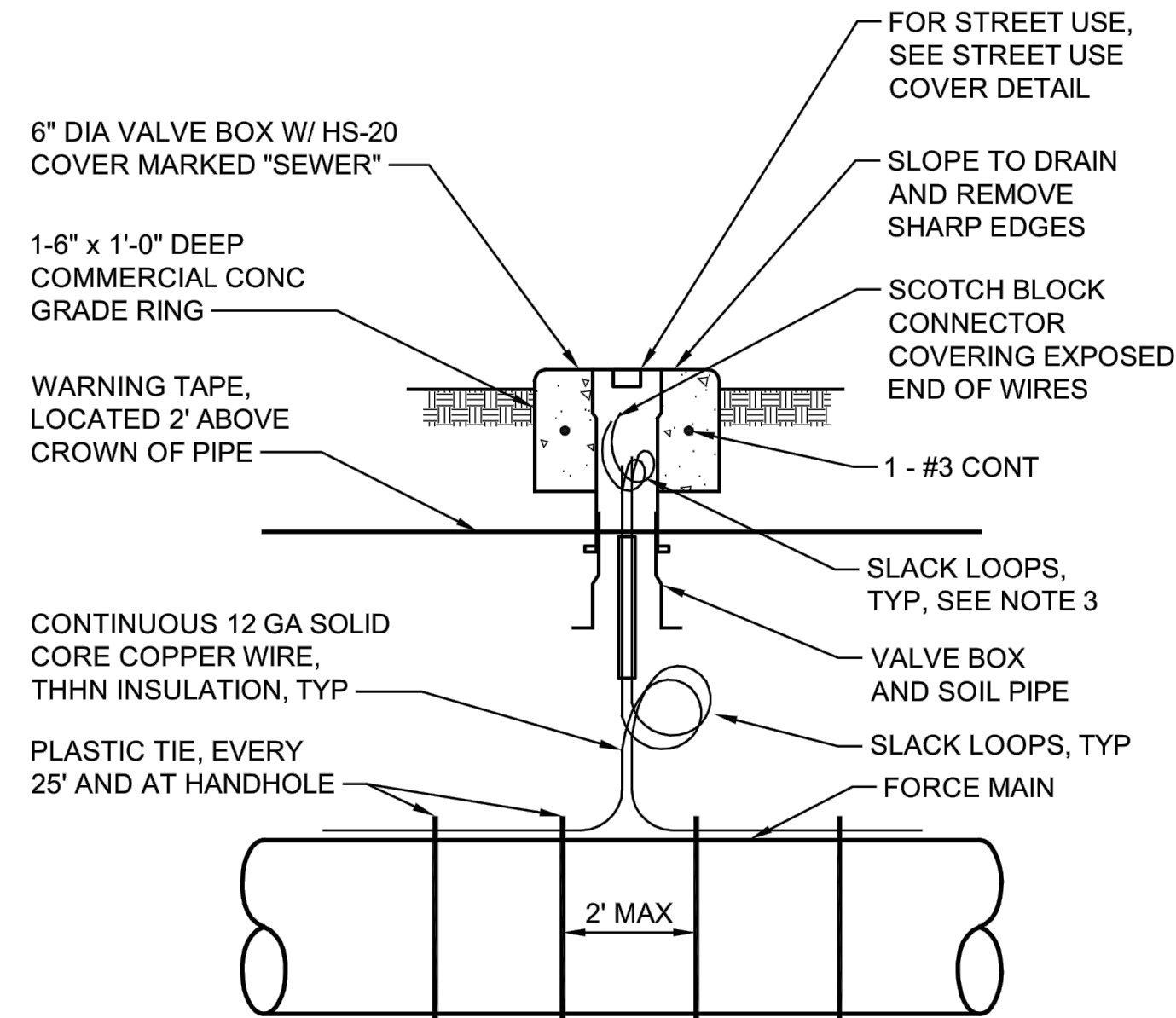
PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

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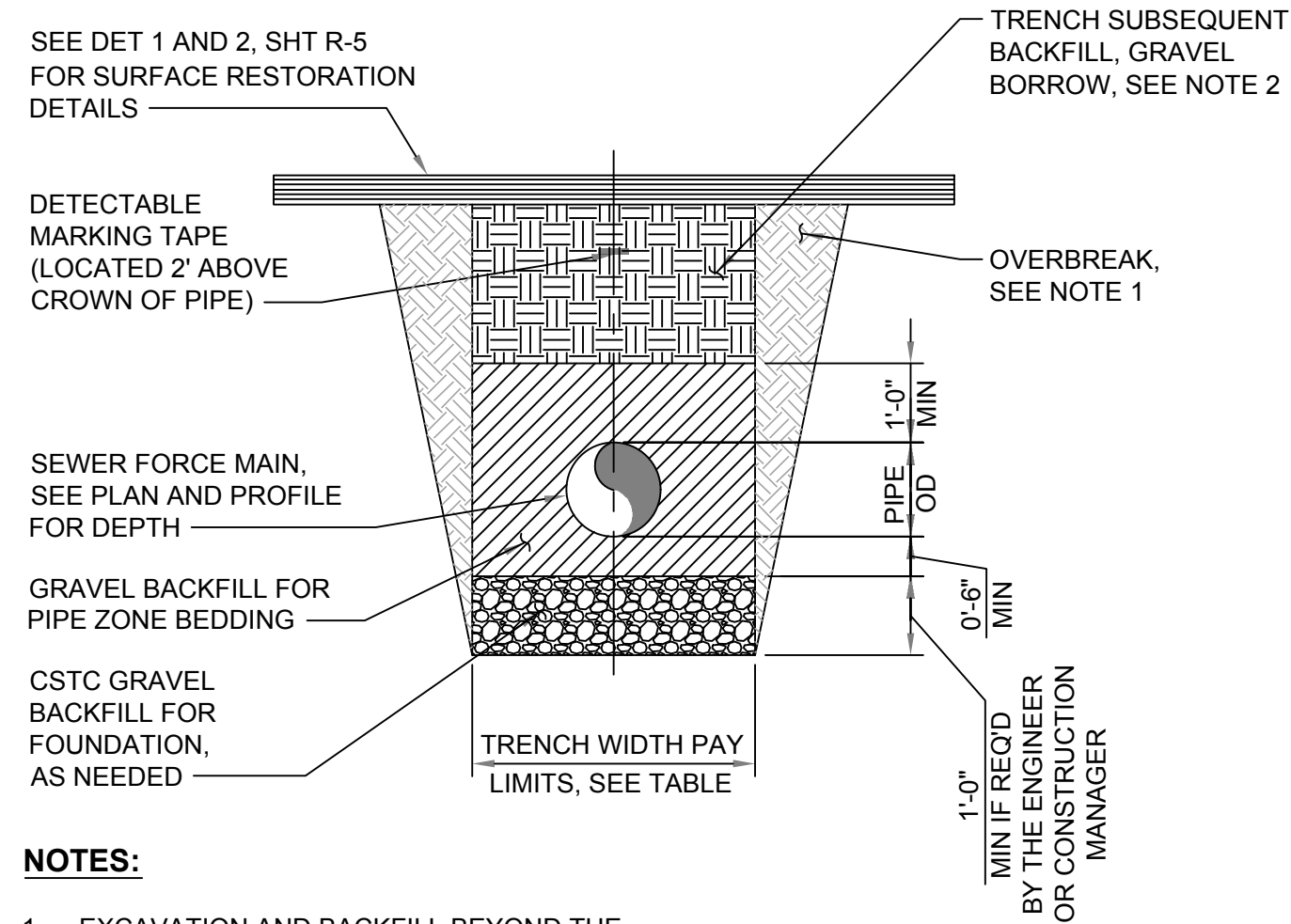


STREET USE COVER



TRACER WIRE AND HANDHOLE DETAIL

SCALE: NTS



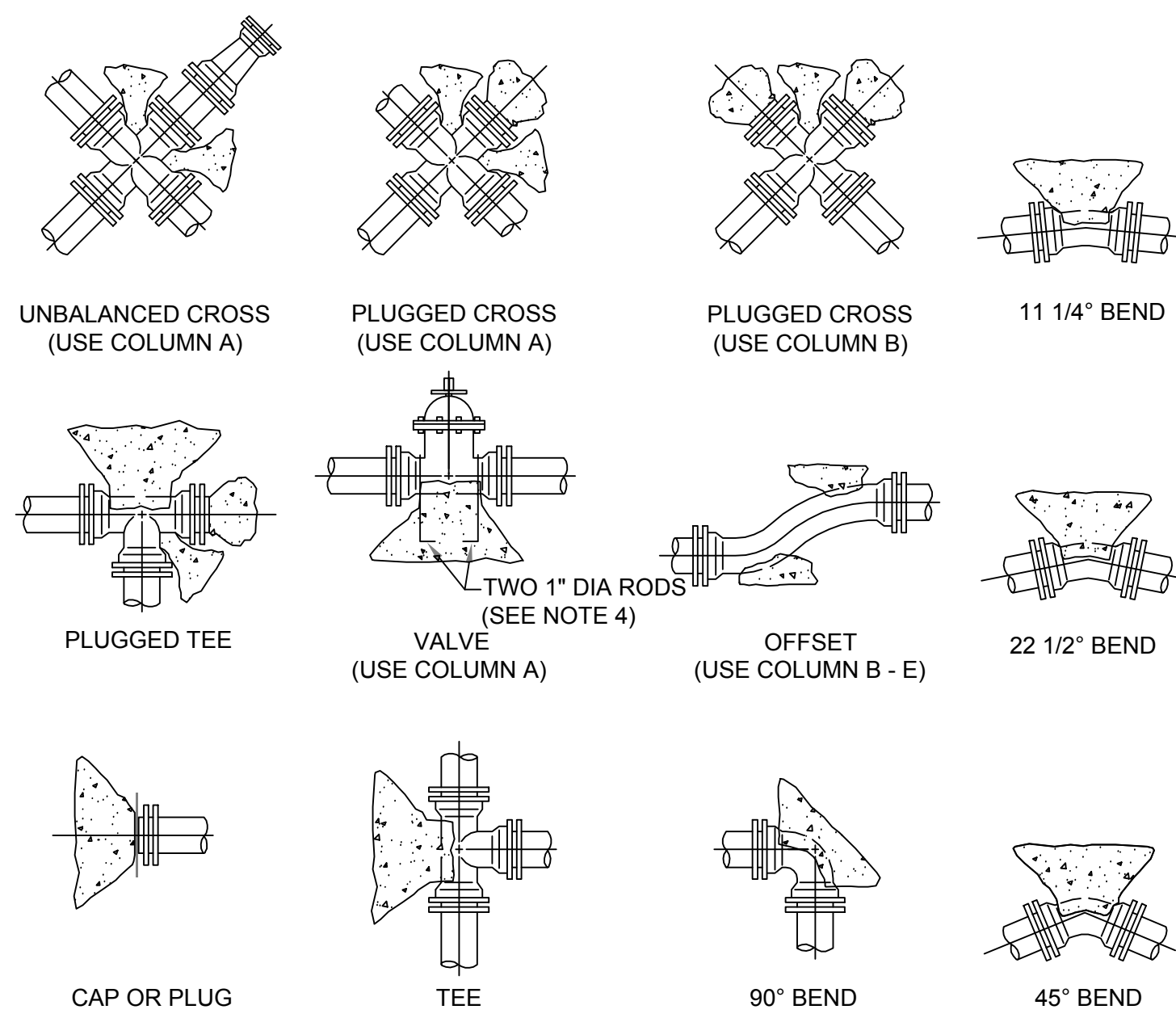
NOTES:

- EXCAVATION AND BACKFILL BEYOND THE TRENCH WIDTH PAY LIMITS SHALL BE TREATED ON OVER BREAK AND SHALL BE THE CONTRACTOR'S RESPONSIBILITIES.
- ALL EXCAVATIONS OVER 4' IN DEPTH SHALL HAVE A TRENCH SUPPORT SYSTEM AS REQUIRED BY STATE AND FEDERAL LAW.
- CONTRACTOR SHALL MATCH EXISTING SURFACE CONDITIONS.

TRENCH WIDTH PAY LIMITS	
PIPE	MAX TRENCH WIDTH PAY LIMIT
24" FM	4'-6"

NOTES:

- LOCATE HAND HOLE OVER CENTERLINE OF FORCE MAIN.
- NO WIRE SPLICES ALLOWED BETWEEN TRACE WIRE HAND HOLES, UNLESS OTHERWISE APPROVED BY ENGINEER.
- PROVIDE 24" WIRE LOOP INSIDE VALVE BOX, TYP.
- PROVIDE WARNING TAPE OVER FORCE MAIN.
- PLASTIC TIE: 150 LB TENSILE STRENGTH NYLON ZIP TIE.
- INSTALL HAND HOLES AT A SPACING NO GREATER THAN 450 FEET.



THRUST AT FITTINGS IN POUNDS								
SIZE	TEST PRESSURE PSI	A	B	C	D	E	F	G
		TEE AND DEAD ENDS	90° BEND	45° BEND	22.5° BEND	11.25° BEND	DIA RESTRAINT ROD (IN)	ALLOWABLE THRUST PER RESTRAINT ROD (LBS)
4"	250	3,140	4,440	2,405	1,225	615	5/8"	3,450
6"	250	7,070	9,995	5,410	2,760	1,385	3/4"	5,150
8"	250	12,565	17,770	9,620	4,905	2,465	3/4"	5,150
10"	250	19,635	27,770	15,030	7,660	3,850	7/8"	7,150
12"	250	28,275	39,985	21,640	11,030	5,545	7/8"	7,150
14"	250	38,485	54,425	29,455	15,015	7,545	1"	9,350
16"	250	50,265	71,085	38,470	19,615	9,855	1"	9,350
18"	250	63,620	89,980	48,700	24,820	12,480	1 1/8"	11,800
24"	250	113,100	159,960	86,580	44,120	22,180	1 1/4"	15,000
30"	250	176,720	249,930	135,270	68,940	34,650	1 1/4"	15,000

ELEVATION SOIL TYPE	SAFE BEARING LOAD PSF
MUCK, PEAT, ETS.	0
SOFT CLAY	1,000
SAND	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL CEMENTED WITH CLAY	4,000
HARD SHALE	10,000

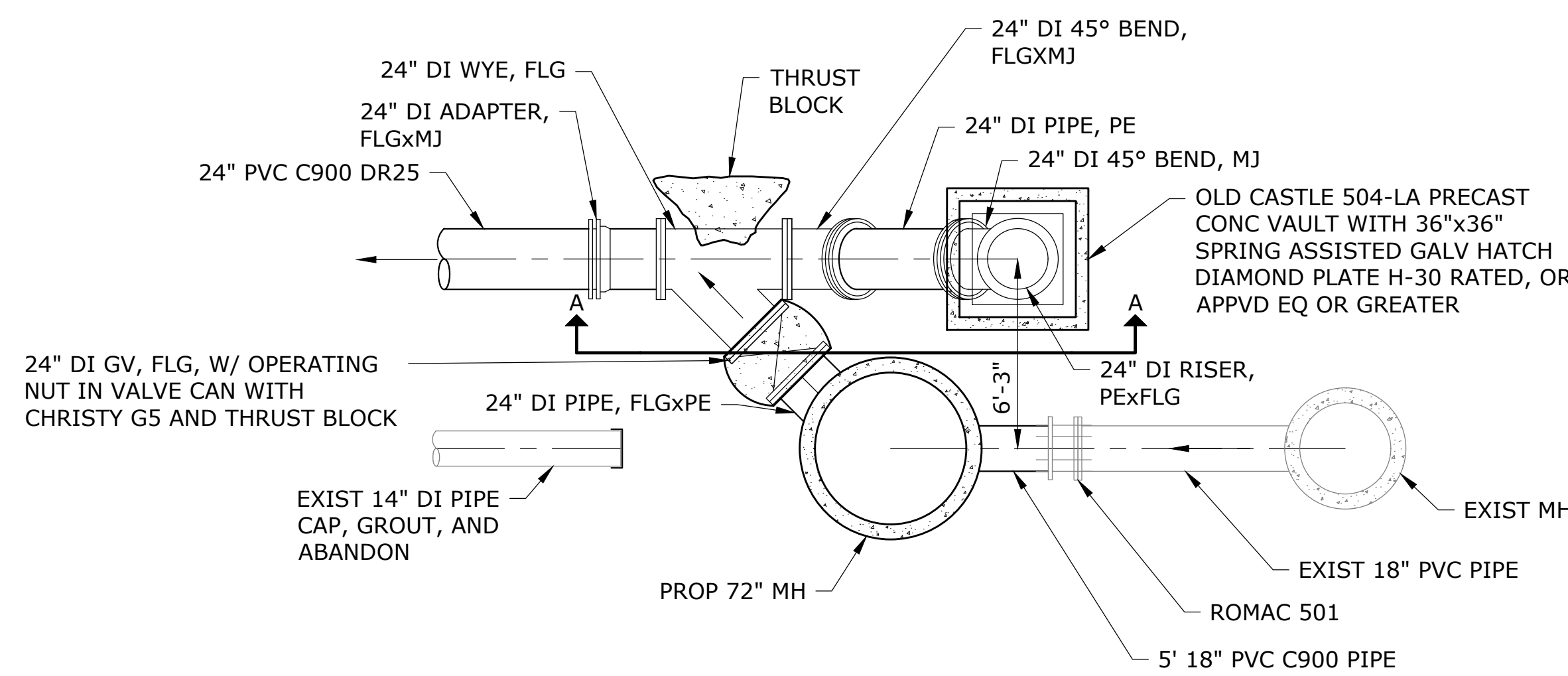
CONCRETE THRUST BLOCK DETAIL

SCALE: NTS

3

NOTES:

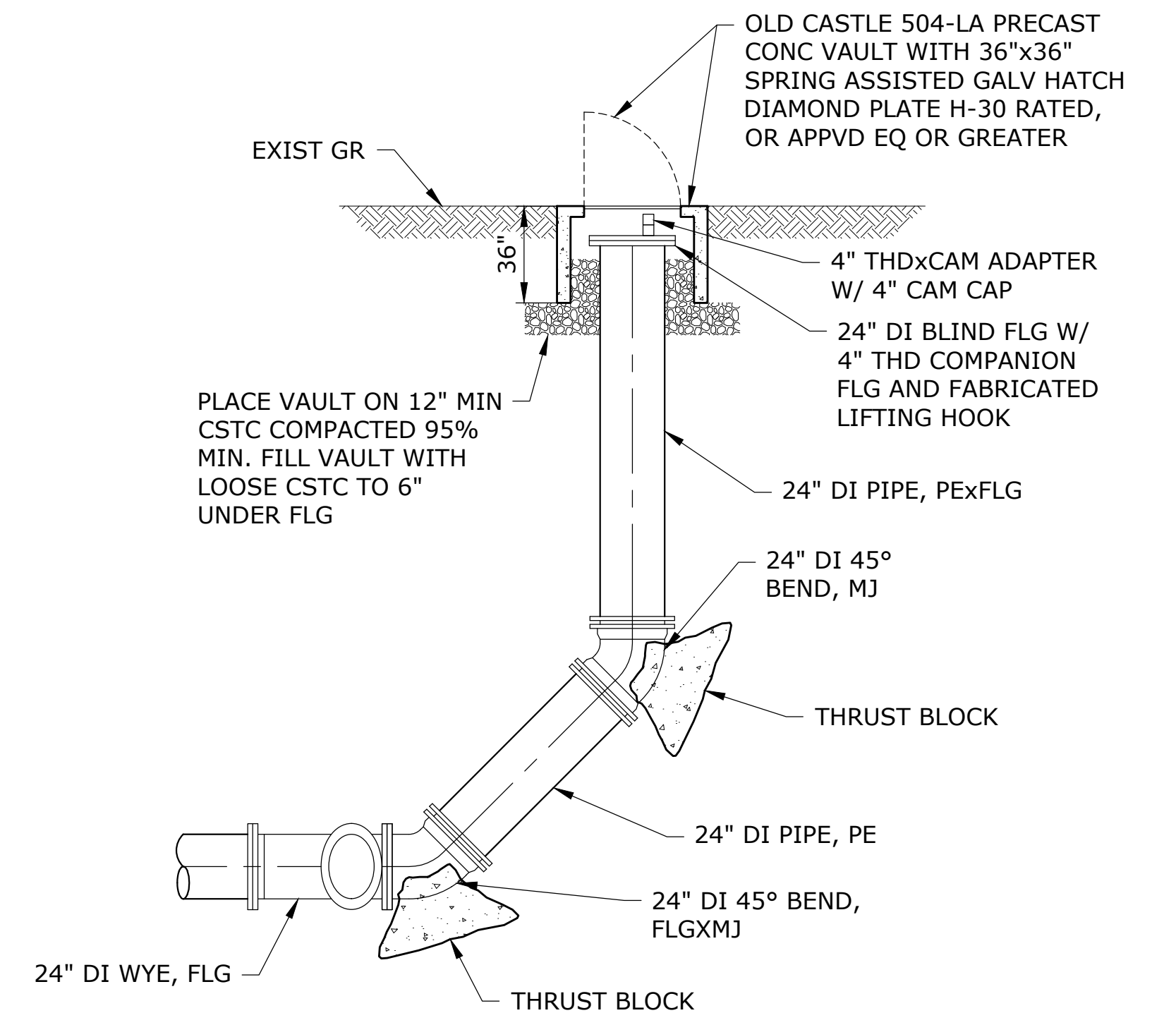
- CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
- DIVIDE THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD.
- AREAS TO BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.
- RESTRAINT RODS, NUTS, WASHERS AND APPURTENANCES SHALL BE CONSTRUCTED OF 304 SST. RODS SHALL BE ALL-THREAD DESIGN.
- JOINTS USING RODS FOR RESTRAINT SHALL NOT EXCEED ALLOWABLE THRUST PER RESTRAINT ROD AS SHOWN IN COLUMN.
- IN NO CASE SHALL LESS THAN 2 RODS BE USED.



PIG LAUNCH DETAIL

SCALE: NTS

4

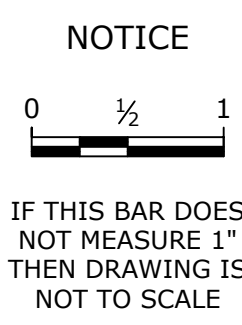


TRENCH DETAIL FOR SEWER FORCE MAIN

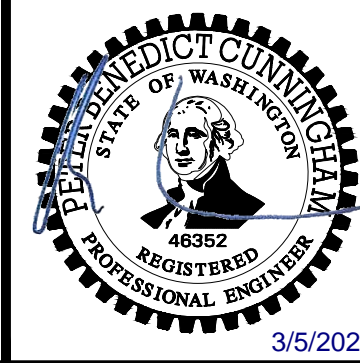
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2

NO.	DATE	BY	REVISION



CJM
DESIGNED
EJJ
DRAWN
EKS
CHECKED



**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**

MISCELLANEOUS SEWER DETAILS - 2

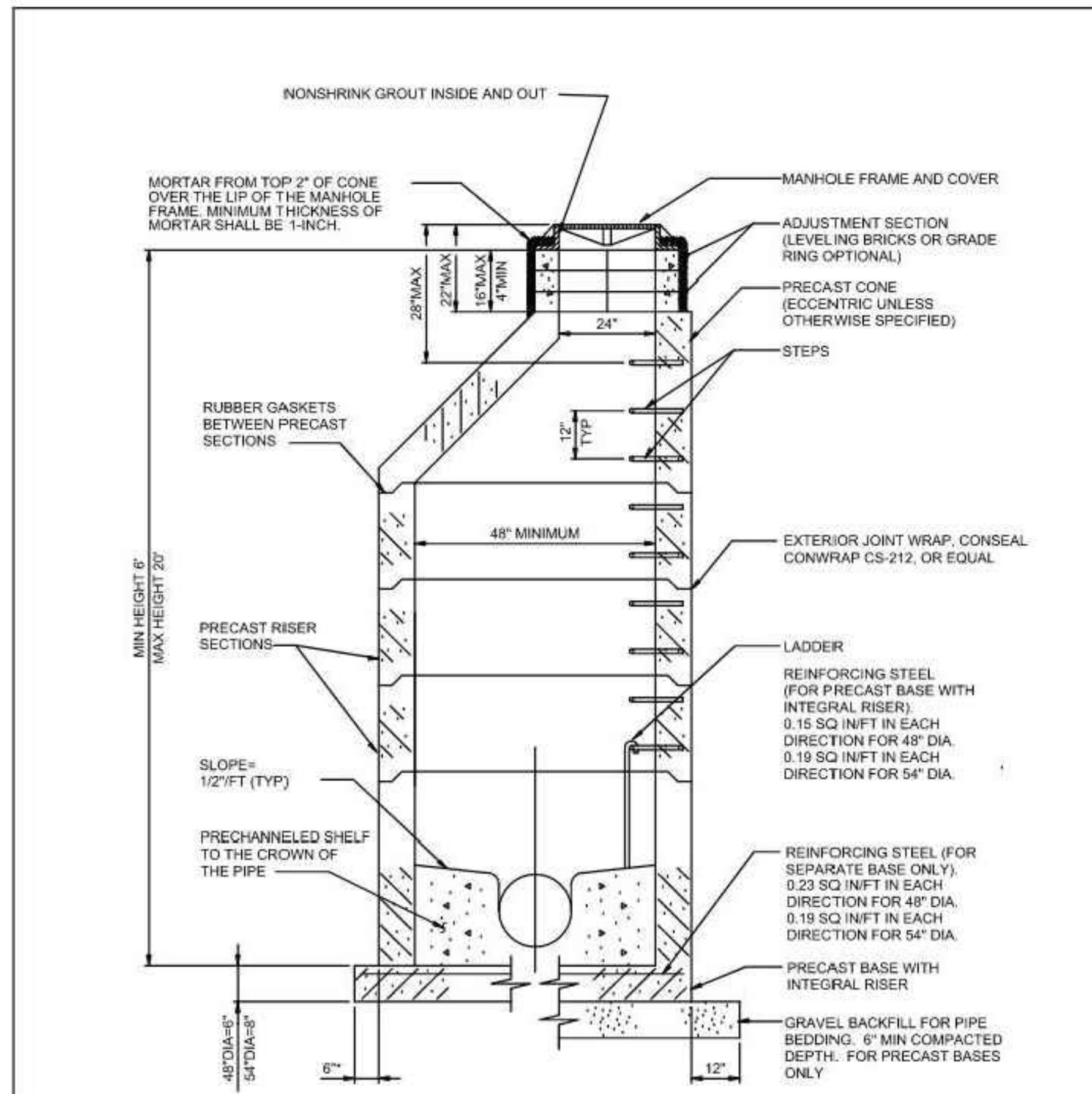
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PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

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- * FOR SEPARATE CAST-IN-PLACE ONLY.
- NOTES:
 1. HEIGHT: 6' TO 12'; SOIL BEARING VALUE EQUALS 3300#/FT² (MIN)
 2. HEIGHT: OVER 12' TO 20'; SOIL BEARING VALUE EQUALS 3800#/FT² (MIN)
 3. HEIGHT: OVER 20'; INTERMEDIATE SAFETY PLATFORMS REQUIRED. SEE DETAIL MV-2.

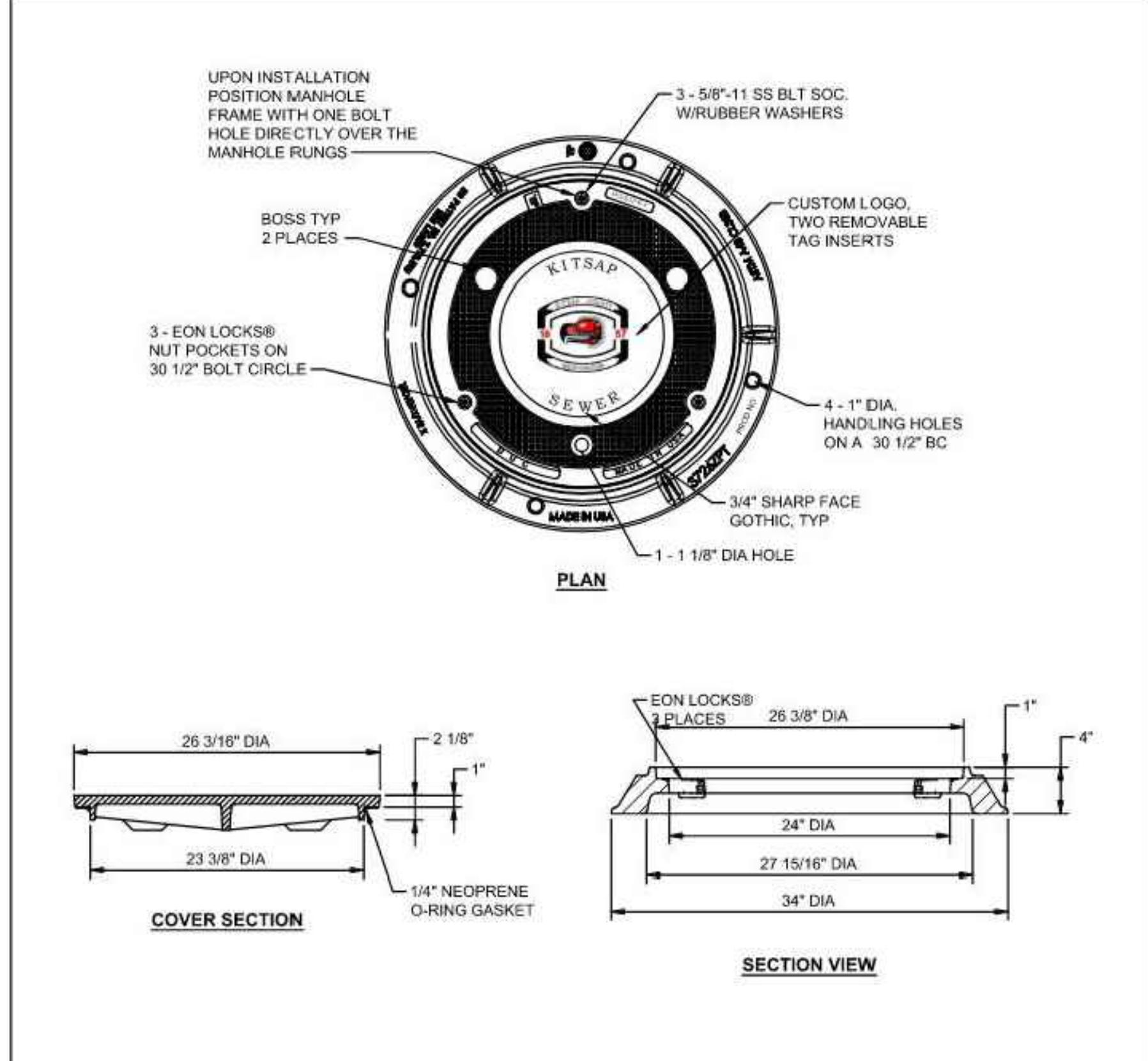
RUBBER BOOTED AND PRECHANNELED

TYPE 1

NO SCALE

1
SS-9

KITSAP COUNTY Dept. of Public Works	MANHOLE TYPE 1	DETAIL MV-1
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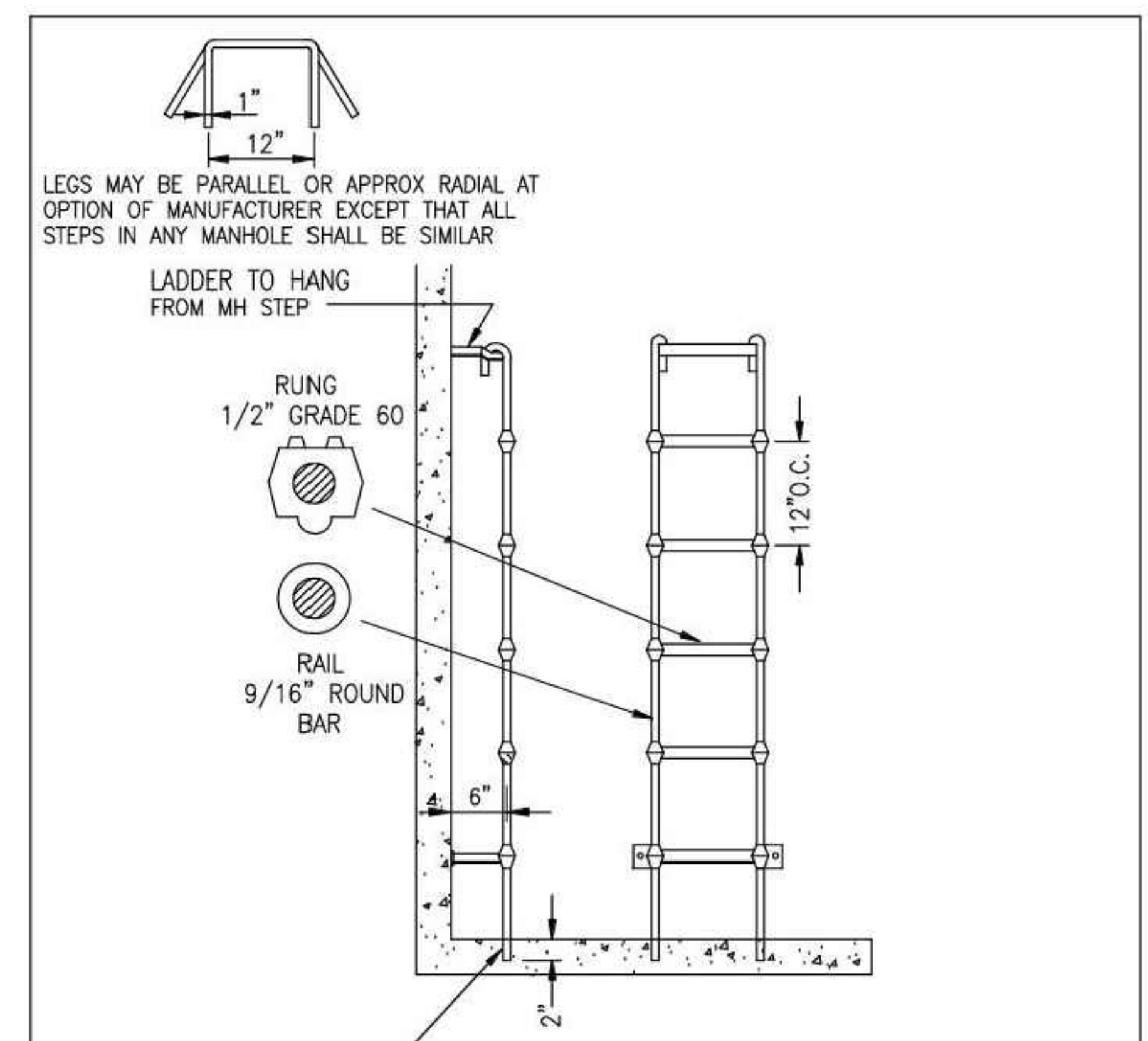
- NOTES:
 1. MATERIALS: FRAME - GRAY IRON (CL35B), ASTM A48; COVER - DUCTILE IRON (80-55-06), ASTM A536
 2. EJ GROUP INTERNATIONAL NO. 3725 APT (OR EQUAL)
 3. MANHOLES LOCATED WITHIN NON-PAVED AREAS SHALL REQUIRE THE INSTALLATION OF MARKER POSTS AS MANUFACTURED BY CARSON TYPE CS-225 AND MARKED SEWER (DECAL 37-A).
 4. PROVIDE NEOPRENE GASKET AND HOLE PLUGS FOR A WATER-TIGHT ASSEMBLY.

MANHOLE FRAME AND COVER

NO SCALE

2
SS-9

KITSAP COUNTY Dept. of Public Works	MANHOLE FRAME AND COVER	DETAIL MV-3
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- PROVIDE 2" MINIMUM PENETRATION INTO MANHOLE BASE. PROVIDE MEANS TO SECURELY ANCHOR INTO MANHOLE BASE
- LADDER SHALL CONFORM TO POLYPROPYLENE ASTM D-4101
 1/2" GRADE 60 REINFORCING BAR A-615 9/16" COLD DRAWN BAR C-1018

POLYPROPYLENE LADDER

NO SCALE

3
SS-9

KITSAP COUNTY Dept. of Public Works	MANHOLE LADDER	DETAIL MV-8
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NO.	DATE	BY	REVISION

NOTICE

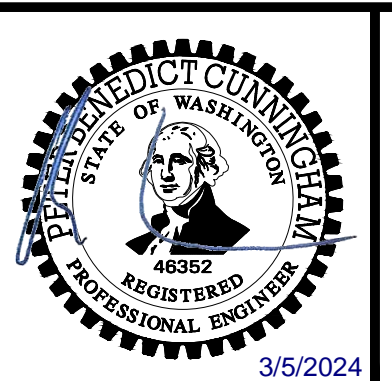
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CJM
DESIGNED

EJJ
DRAWN

EKS
CHECKED

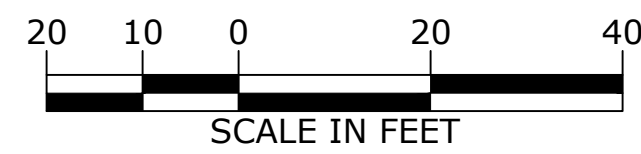
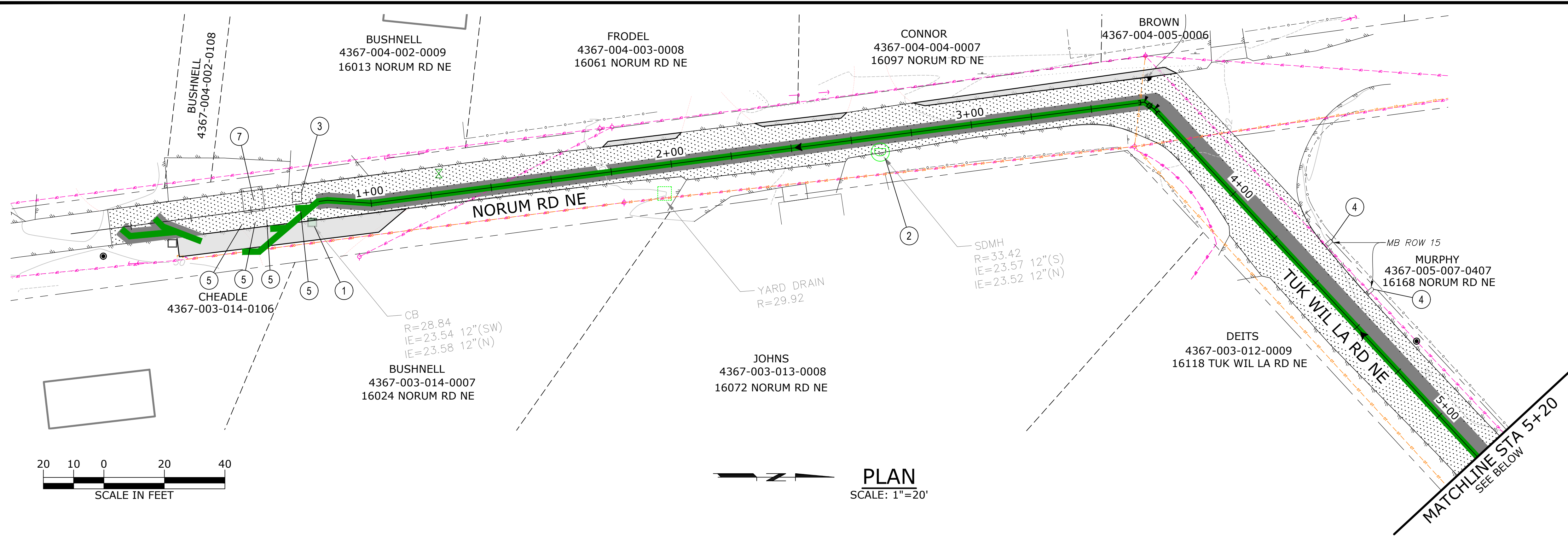


JOHNSON TO NORUM
SEWER MAIN REPLACEMENT

In Partnership with City of Poulsbo

PROJECT NO.:	W220438WA	SCALE:	AS SHOWN	DATE:	MARCH 2024
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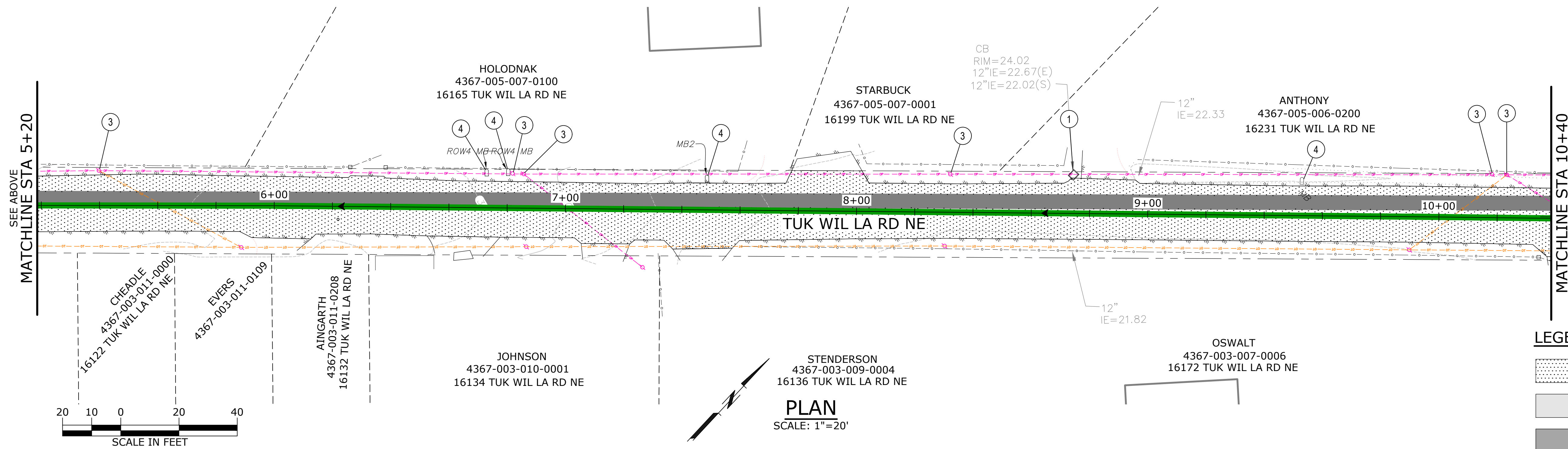


PLAN
SCALE: 1"=20'

- NOTES:**
1. ALL NECESSARY RESTORATION MAY NOT BE IDENTIFIED ON THE DRAWINGS. RESTORE ALL DISTURBED AREAS TO PRE-CONSTRUCTION CONDITIONS OR BETTER WITH LIKE MATERIAL
 2. NATIVE VEGETATION WILL BE RESTORED IN KIND IN CONSTRUCTION AREA. DO NOT DISTURB NATIVE VEGETATION OUTSIDE THE CONSTRUCTION LIMITS
 3. PROVIDE ALL THERMOPLASTIC MARKINGS, PAINT STRIPING, AND SIGNAGE
 4. REMOVE ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED MARKINGS
 5. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, UNLESS OTHERWISE NOTED
 6. CONTACT COUNTY WORKS TRAFFIC DIVISION PRIOR TO INSTALLING PAVEMENT MARKINGS OR OTHER TRAFFIC DELINEATORS ON COUNTY RIGHTS OF WAY TO ENSURE COMPLIANCE WITH KITSAP COUNTY ROAD STANDARDS SECTION 6.2.5

CONSTRUCTION NOTES:

1. ADJUST STORM DRAIN LID TO FINAL GRADE
2. ADJUST MANHOLE LID TO FINAL GRADE
3. PROTECT POWER POLE
4. PROTECT EXIST PRIVATE MAILBOX
5. REINSTALL STREET SIGNAGE PER KITSAP COUNTY STANDARDS
6. ADJUST VALVE BOX TO FINAL GRADE
7. ADJUST VAULT LID TO FINAL GRADE



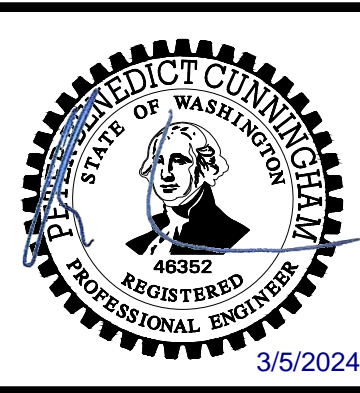
PLAN
SCALE: 1"=20'

- LEGEND:**
- 2-INCH GRIND AND OVERLAY
 - UNPAVED SURFACE RESTORATION SEE DETAIL 1, SHEET R-5
 - HMA PAVEMENT, SEE DETAIL 2, SHEET R-5

NO.	DATE	BY	REVISION

NOTICE
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CJM DESIGNED
EJJ DRAWN
EKS CHECKED



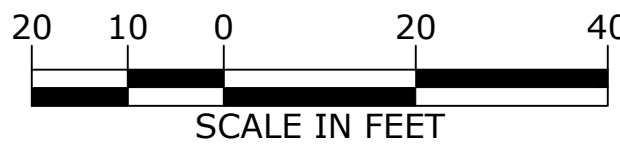
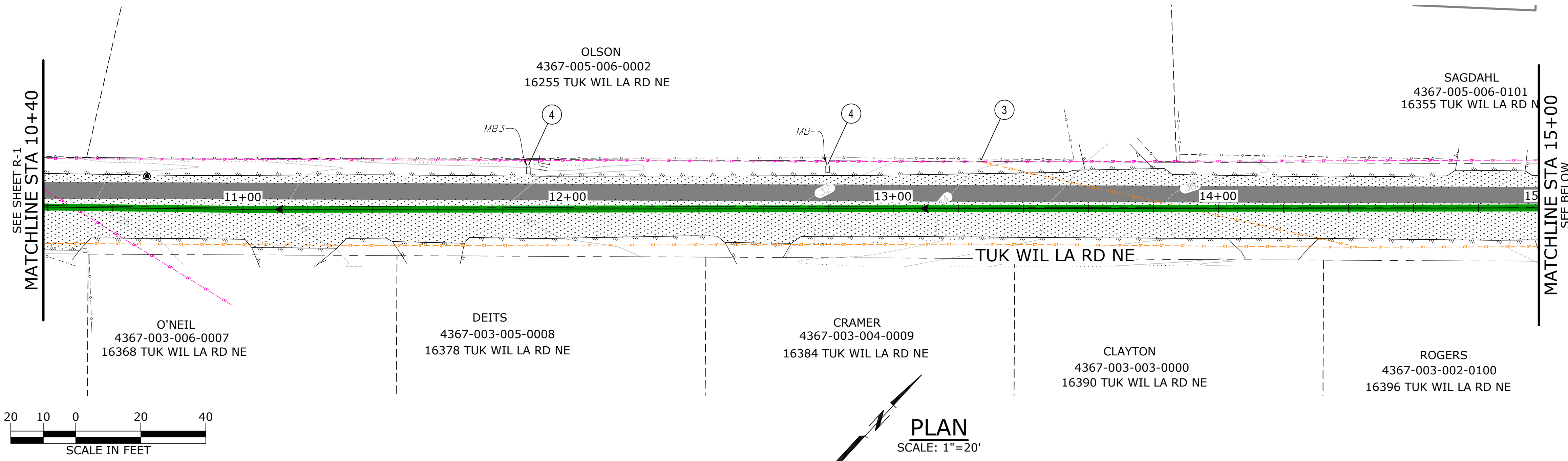
JOHNSON TO NORUM SEWER MAIN REPLACEMENT
In Partnership with City of Poulsbo

ROADWAY RESTORATION PLAN
STA 0+00 TO STA 10+40

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

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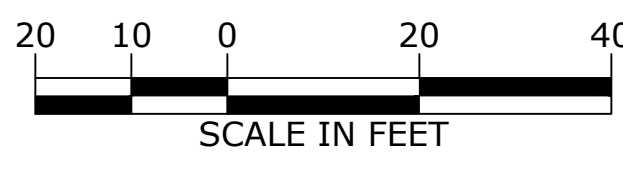
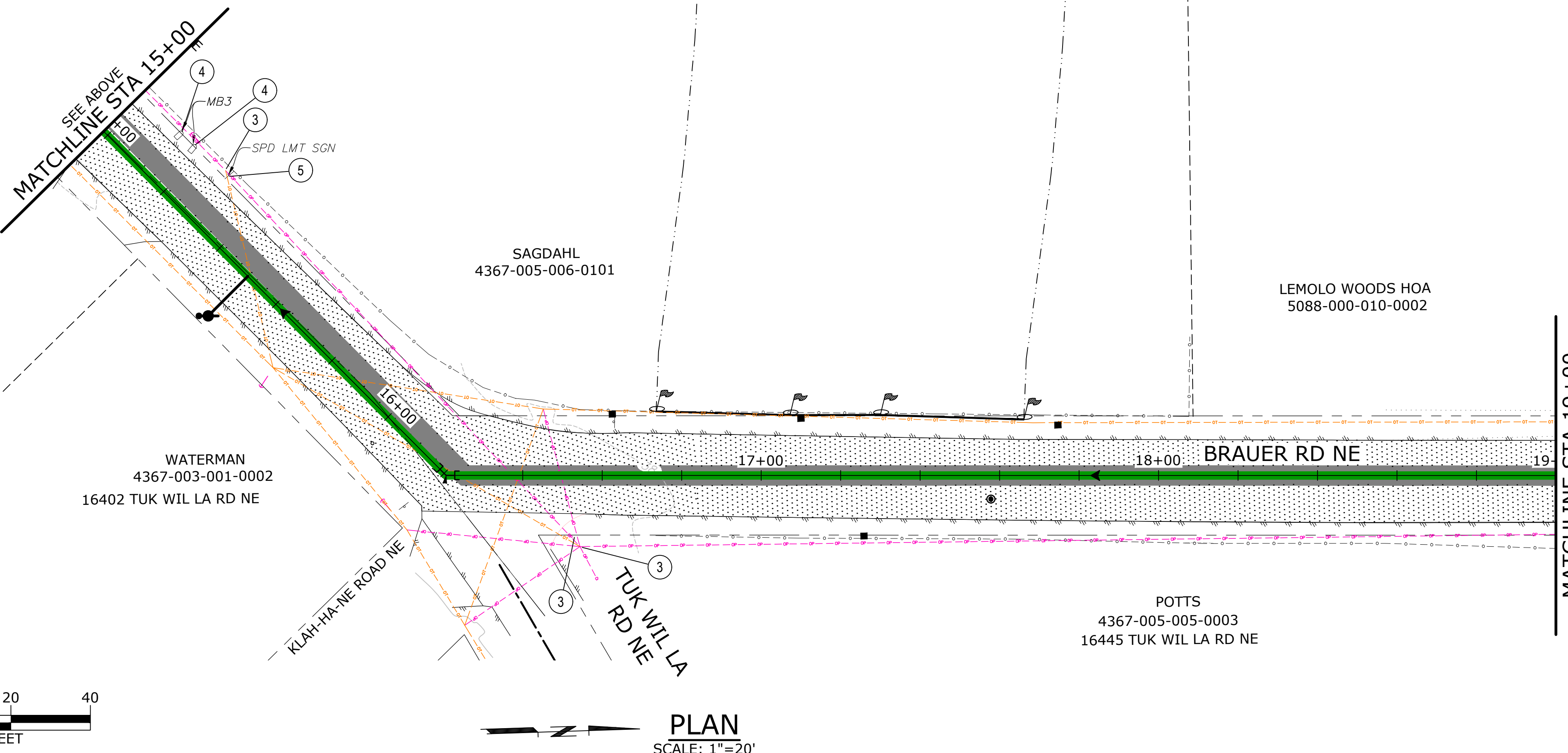
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PLAN
SCALE: 1"=20'

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- CONSTRUCTION NOTES:**
- ① ADJUST STORM DRAIN LID TO FINAL GRADE
 - ② ADJUST MANHOLE LID TO FINAL GRADE
 - ③ PROTECT POWER POLE
 - ④ PROTECT EXIST PRIVATE MAILBOX
 - ⑤ REINSTALL STREET SIGNAGE PER KITSAP COUNTY STANDARDS



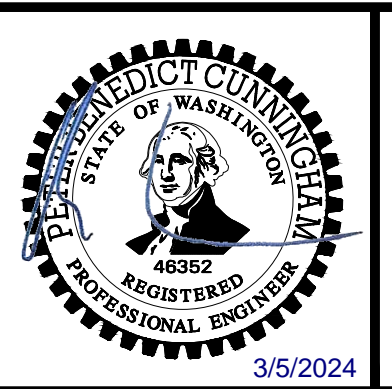
PLAN
SCALE: 1"=20'

- LEGEND:**
- 2-INCH GRIND AND OVERLAY
 - UNPAVED SURFACE RESTORATION SEE DETAIL 1, SHEET R-5
 - HMA PAVEMENT, SEE DETAIL 2, SHEET R-5

NO.	DATE	BY	REVISION

NOTICE
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EJJ DRAWN
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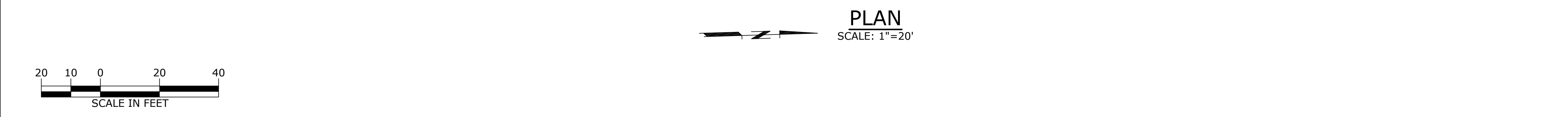
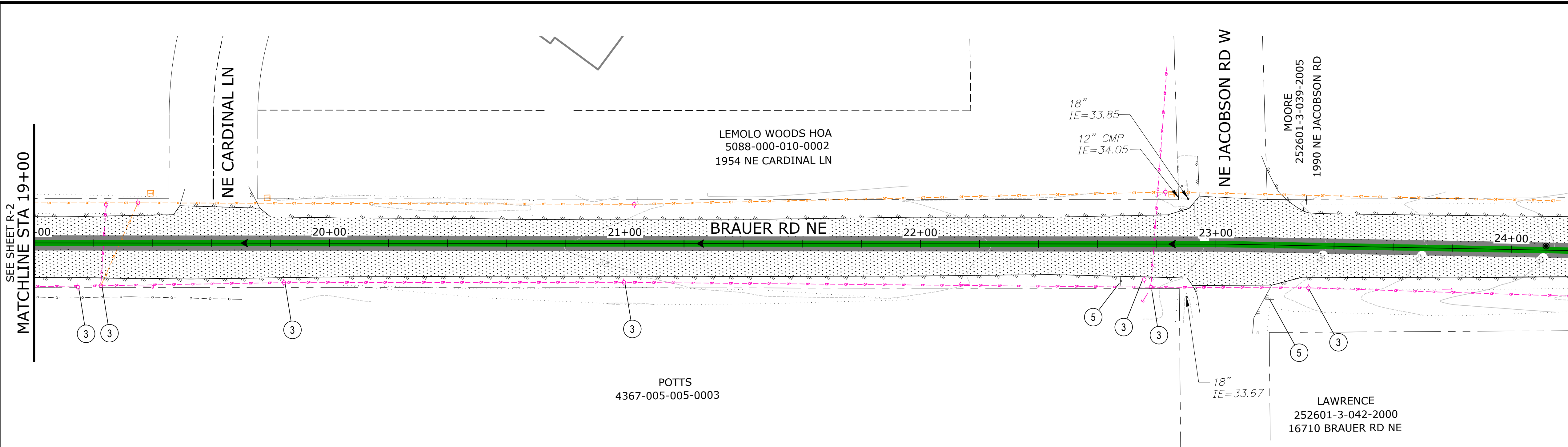


ROADWAY RESTORATION PLAN
STA 10+40 TO STA 19+00

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

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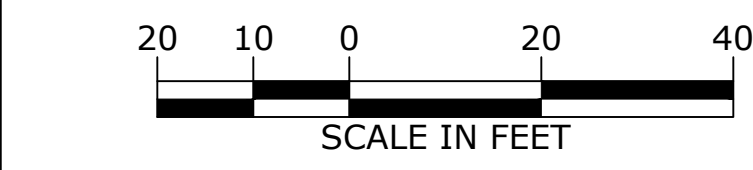
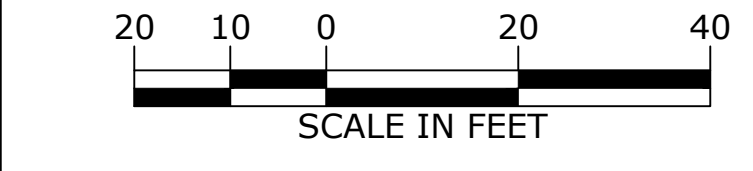
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- NOTES:**
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- CONSTRUCTION NOTES:**
- 1 ADJUST STORM DRAIN LID TO FINAL GRADE
 - 2 ADJUST MANHOLE LID TO FINAL GRADE
 - 3 PROTECT POWER POLE
 - 4 PROTECT EXIST PRIVATE MAILBOX
 - 5 REINSTALL STREET SIGNAGE PER KITSAP COUNTY STANDARDS

- LEGEND:**
- 2-INCH GRIND AND OVERLAY
 - UNPAVED SURFACE RESTORATION SEE DETAIL 1, SHEET R-5
 - HMA PAVEMENT, SEE DETAIL 2, SHEET R-5

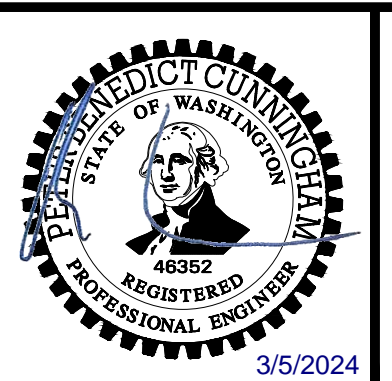


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NOTICE

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CJM DESIGNED
 EJJ DRAWN
 EKS CHECKED



ROADWAY RESTORATION PLAN
STA 19+00 TO STA 29+40

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

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NOTES:

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CONSTRUCTION NOTES:

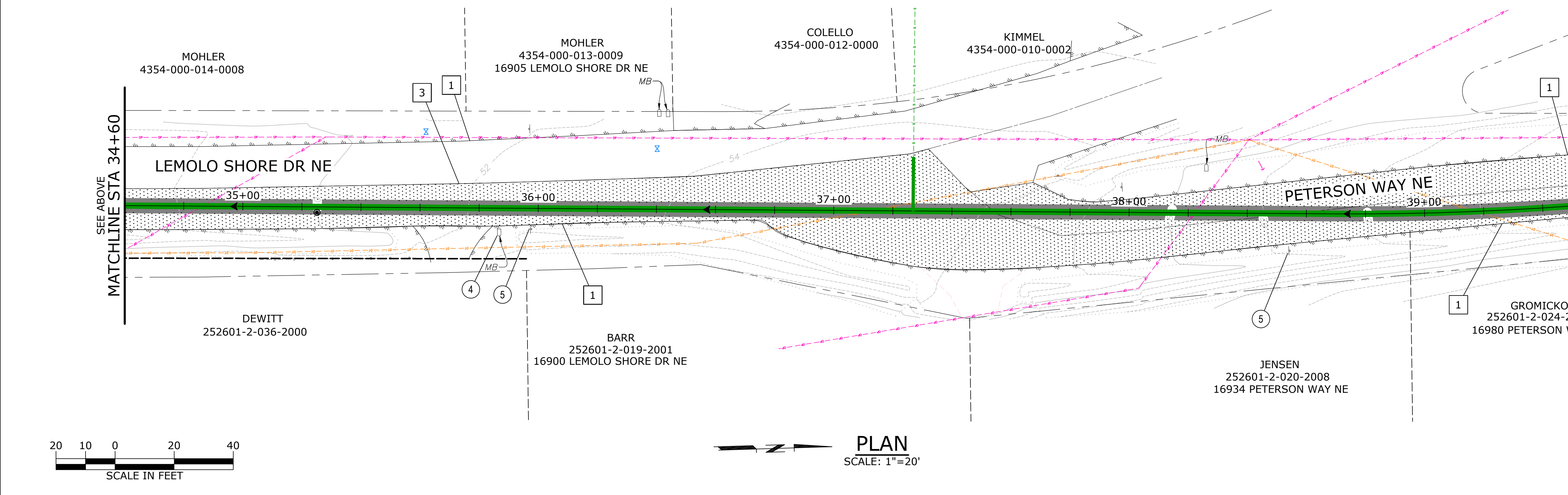
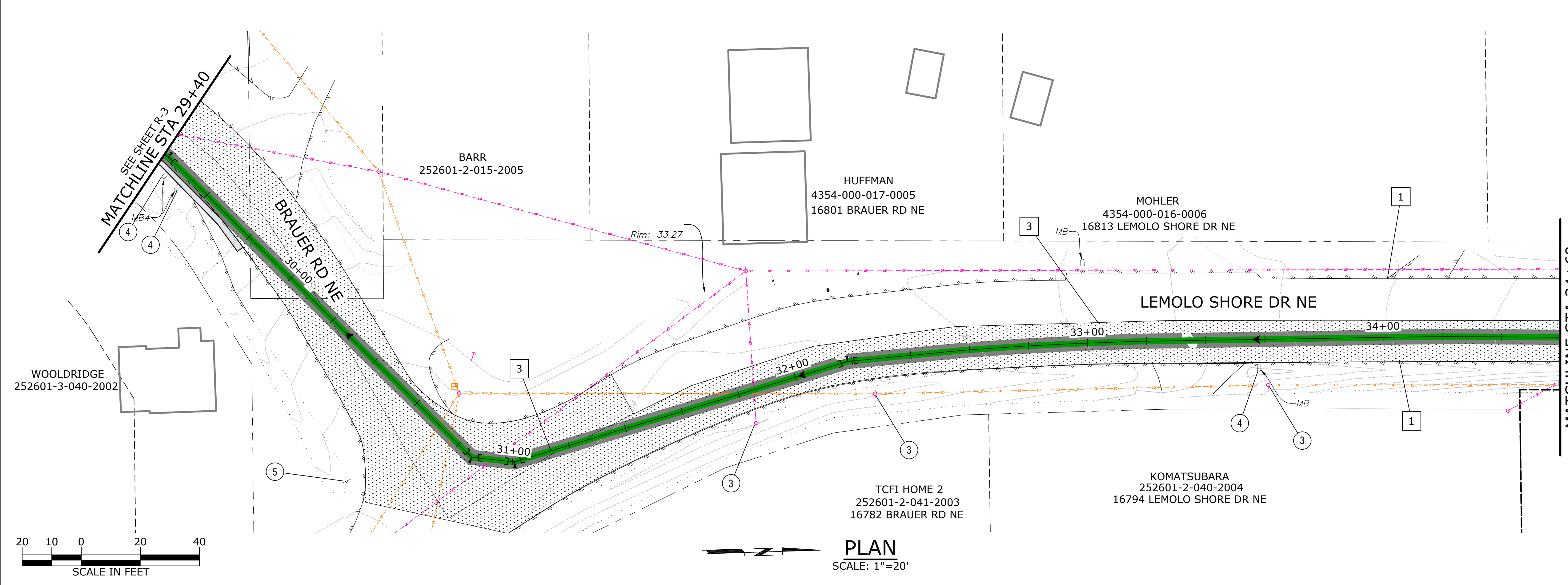
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CHANNELIZATION NOTES:

- 1 INSTALL PAINTED WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04 TO MATCH EXISTING
- 2 INSTALL PAINTED YELLOW DOUBLE CENTERLINE WITH 4" SPACING PER WSDOT STD PLAN M-20.10-04 TO MATCH EXISTING
- 3 INSTALL PAINTED YELLOW DOUBLE CENTERLINE PER WSDOT STD PLAN M-20.30-04 WITH RECESSED PAVEMENT MARKERS TO MATCH EXISTING

LEGEND:

- 2-INCH GRIND AND OVERLAY
- UNPAVED SURFACE RESTORATION SEE DETAIL 1, SHEET R-5
- HMA PAVEMENT, SEE DETAIL 2, SHEET R-5

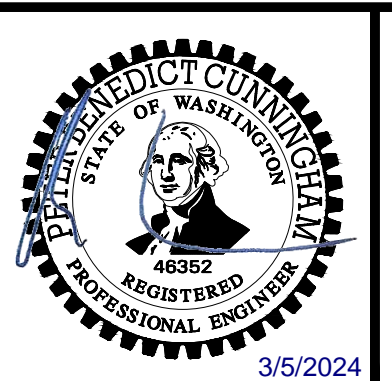


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NOTICE

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CJM DESIGNED
 EJJ DRAWN
 EKS CHECKED



**JOHNSON TO NORUM
 SEWER MAIN
 REPLACEMENT**

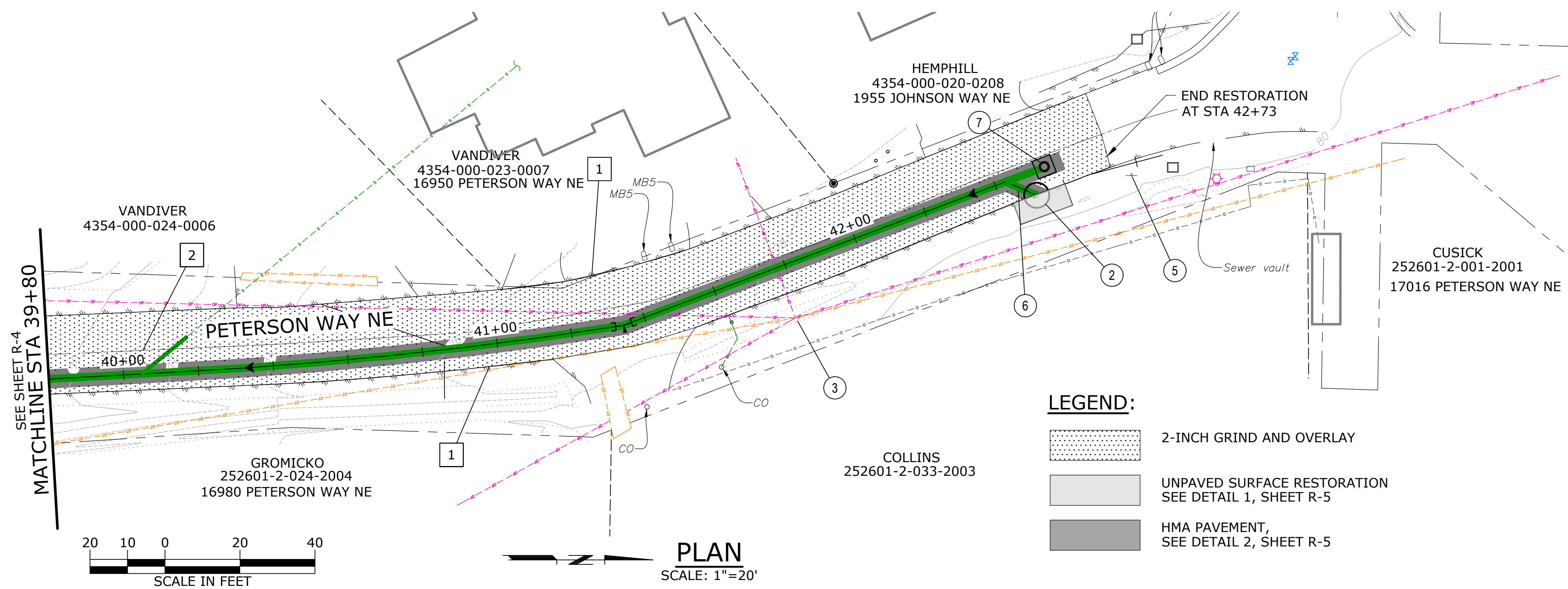
In Partnership with City of Poulsbo

**ROADWAY RESTORATION PLAN
 STA 29+40 TO STA 39+80**

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

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LEGEND:

- 2-INCH GRIND AND OVERLAY
- UNPAVED SURFACE RESTORATION SEE DETAIL 1, SHEET R-5
- HMA PAVEMENT, SEE DETAIL 2, SHEET R-5

NOTES:

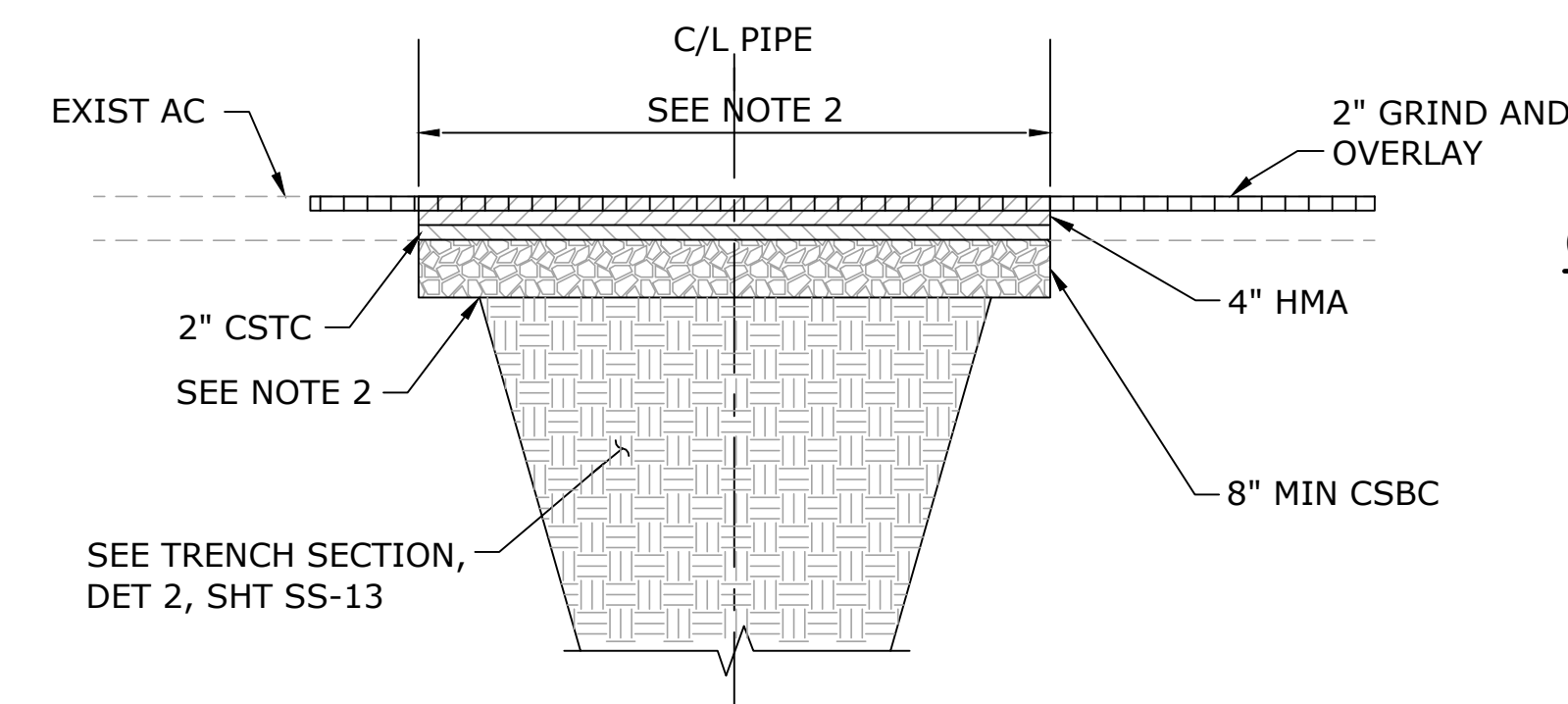
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CONSTRUCTION NOTES:

- ① ADJUST STORM DRAIN LID TO FINAL GRADE
- ② ADJUST MANHOLE LID TO FINAL GRADE
- ③ PROTECT POWER POLE
- ④ PROTECT EXIST PRIVATE MAILBOX
- ⑤ REINSTALL STREET SIGNAGE PER KITSAP COUNTY STANDARDS
- ⑥ ADJUST VALVE BOX TO FINAL GRADE
- ⑦ ADJUST VAULT LID TO FINAL GRADE

CHANNELIZATION NOTES:

- 1 INSTALL PAINTED WHITE EDGE LINE PER WSDOT STD PLAN M-20.10-04 TO MATCH EXISTING
- 2 INSTALL PAINTED YELLOW DOUBLE CENTERLINE WITH 4" SPACING PER WSDOT STD PLAN M-20.10-04 TO MATCH EXISTING

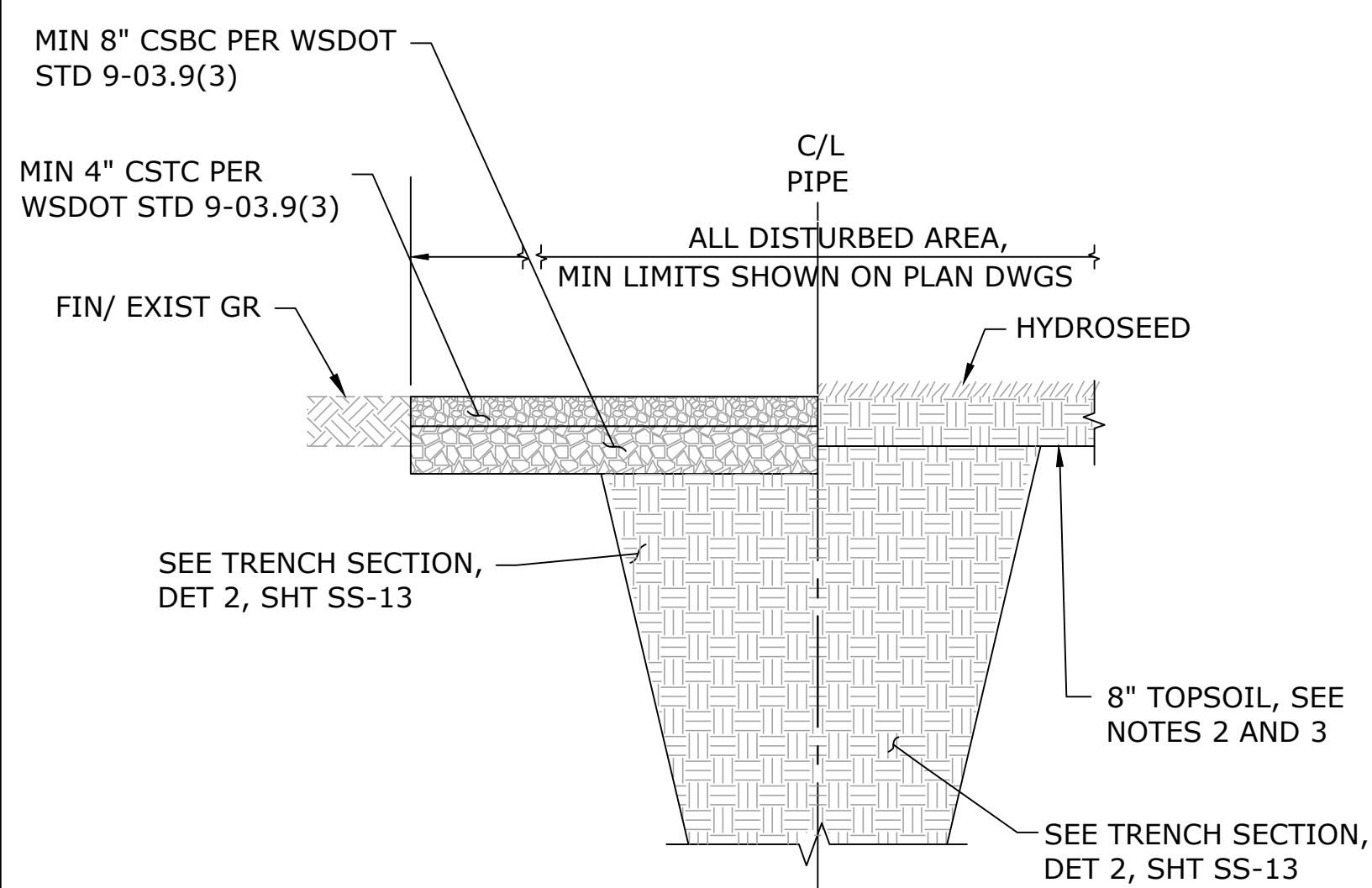


TRENCH WIDTH PAY LIMITS	
PIPE	MAX TRENCH WIDTH PAY LIMIT
24"	4'-6"

NOTES:

1. THIS RESTORATION DETAIL APPLIES TO TRENCHES EXCAVATED IN EXISTING AC-PAVED AND CONCRETE PAVED AREAS.
2. SAW CUT EXISTING AC PAVEMENT 2' WIDER THAN TOP OF TRENCH UNLESS SHOWN OTHERWISE ON THE PLANS. CUTS SHALL BE STRAIGHT, VERTICAL, AND FULL DEPTH. REMOVE AND DISPOSE OF EXISTING AC OVER TRENCH. CLEAN, HEAT, AND TACK EDGES OF EXISTING AC WITH SEALER PRIOR TO INSTALLING NEW HMA PATCH. PROVIDE SMOOTH TRANSITION BETWEEN EXISTING AC PAVEMENT AND NEW HMA PATCH.
3. ALL JOINTS SHALL BE SEALED WITH A 4" WIDE STRIP OF ASPHALT SEALER CENTERED ON JOINT. SEALER TO CONFORM TO WSDOT STANDARD SPECIFICATION 9-04.2.
4. MATCH ELEVATIONS OF EXISTING PAVEMENT, DRIVEWAYS, SHOULDERS, AND OTHER SURFACE FEATURES.
5. RESTORE ALL DISTURBED PAVEMENT MARKINGS.
6. MAX TRENCH WIDTH PAY LIMITS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

SURFACE RESTORATION PAVED AREAS 2
SCALE: NTS



TRENCH WIDTH PAY LIMITS	
PIPE	MAX TRENCH WIDTH PAY LIMIT
24" FM	4'-6"

NOTES:

1. THIS RESTORATION DETAIL APPLIES TO TRENCHES EXCAVATED IN EXISTING UNPAVED AREAS.
2. REGRADE DISTURBED AREAS TO ORIGINAL OR PROPOSED CONTOURS LESS DEPTH OF NEW TOPSOIL PRIOR TO INSTALLING NEW TOPSOIL. RESTORE ORIGINAL GRADE AND ELEVATIONS AFTER INSTALLATION OF TOPSOIL.
3. TOPSOIL LAYER SHALL HAVE A MINIMUM ORGANIC MATTER CONTENT OF 5% DRY WEIGHT AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHALL BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
4. STOCKPILE EXISTING TOPSOIL DURING GRADING FOR USE IN HYDROSEEDED AREAS. STOCKPILED TOPSOIL SHALL BE AMENDED, IF NEEDED, TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, AS SHOWN ON THE DRAWINGS. AMENDMENTS SHALL BE AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
5. AS REQUIRED, IMPORT TOPSOIL MIX OF WITH ORGANIC CONTENT THAT MEETS REQUIREMENTS NOTED ABOVE.
6. RESTORE DISTURBED GRAVEL SHOULDER WITH 4" OF CSTC. REMOVE EXISTING GRAVEL AS NECESSARY TO MAINTAIN GRADES.
7. MAX TRENCH WIDTH PAY LIMITS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

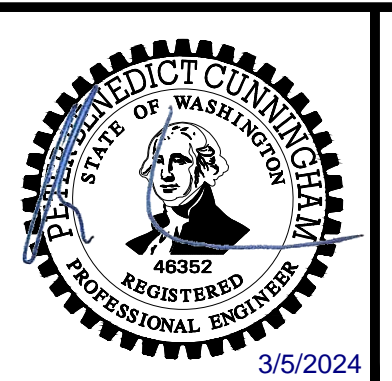
SURFACE RESTORATION UNPAVED AREA 1
SCALE: NTS

NO.	DATE	BY	REVISION

NOTICE

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CJM DESIGNED
EJJ DRAWN
EKS CHECKED



JOHNSON TO NORUM
SEWER MAIN REPLACEMENT

In Partnership with City of Poulsbo

ROADWAY RESTORATION PLAN
STA 39+80 TO STA 42+73
AND DETAILS

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET

R-5

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SIGN SPACING = X (1)		
FREEWAY & EXPRESSWAYS	55 / 75 MPH	~1500'
RURAL HIGHWAYS	60 / 65 MPH	~800'
RURAL ROADS	45 / 55 MPH	~500'
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	~350'
RURAL ROADS & URBAN ARTERIALS	25 / 30 MPH	~200' (2)
RESIDENTIAL & BUSINESS DISTRICTS URBAN STREETS	25 MPH OR LESS	~100' (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

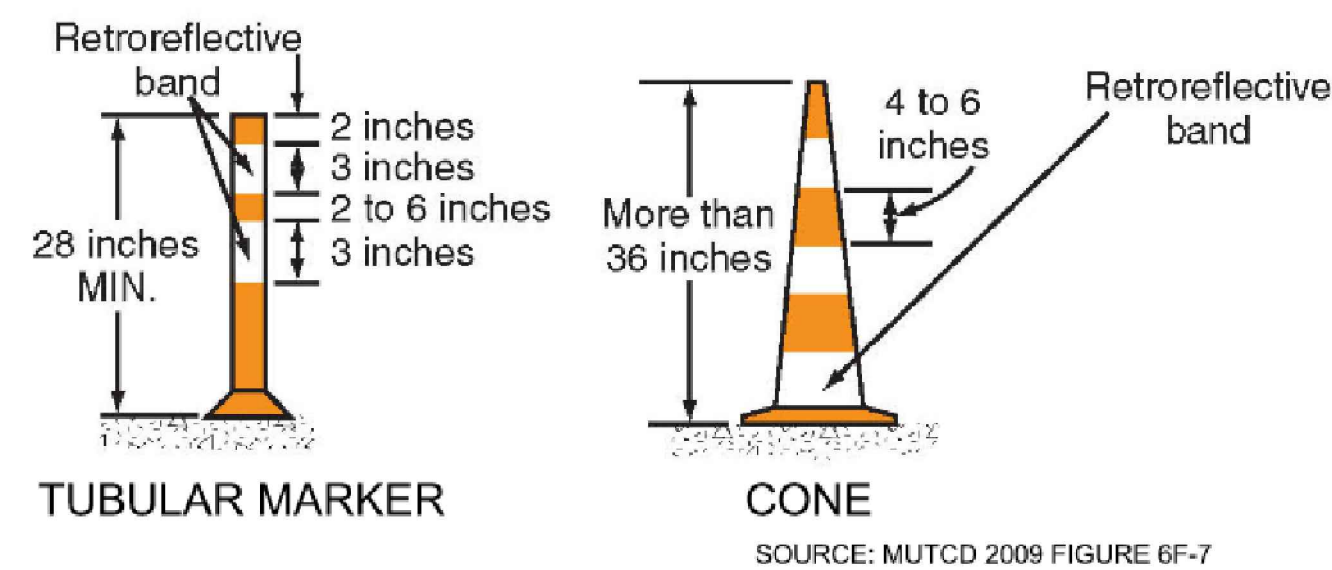
MINIMUM TAPER LENGTH = L (feet)						
LANE WIDTH (feet)	Posted Speed (mph)					
	25	30	35	40	45	50
10	105	150	205	270	450	500
11	115	165	225	295	495	550
12	125	180	245	320	540	600

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50	40	80
35/45	30	60
25/30	20	40

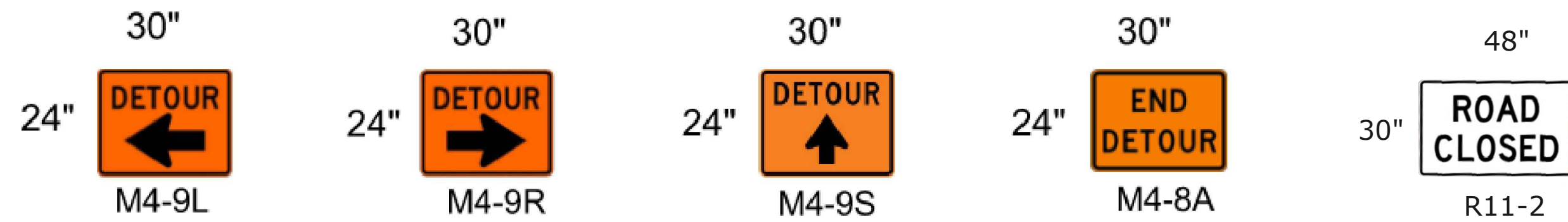
TRAFFIC CONTROL NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND SCHEDULING, INCLUDING ALL TRAFFIC CONTROL DURING CONSTRUCTION, AS IDENTIFIED IN THE WSDOT STANDARD SPECIFICATIONS AND AS AMENDED IN THIS CONTRACT. SEE SECTIONS 1-07.23 PUBLIC CONVENIENCE AND SAFETY, 1-08.5 TIME FOR COMPLETION AND 1-10 TEMPORARY TRAFFIC CONTROL.
- WITHIN KITSAP COUNTY ROADWAYS, THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING TRAFFIC CONTROL PLANS TO KITSAP COUNTY CONSTRUCTION MANAGER FOR APPROVALS. REQUIREMENTS FOR TEMPORARY TRAFFIC CONTROL SHALL FOLLOW SECTION 8.2 OF THE KITSAP COUNTY ROAD STANDARDS.
- SEE TC-2 FOR TRAFFIC CONTROL STRATEGY FOR THE PROJECT.
- EMERGENCY VEHICLES, SCHOOL DISTRICT TRANSPORTATION AND LOCAL RESIDENTS SHALL HAVE ACCESS AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH EMERGENCY SERVICE PROVIDERS, NORTH KITSAP SCHOOL DISTRICTS, KITSAP TRANSIT AND USPS AT LEAST TWO WEEKS PRIOR TO ANY CHANGE IN TRAFFIC CONTROL.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN LOCAL ACCESS TO ALL PROPERTIES WITHIN THE CONSTRUCTION ZONE. CONTRACTOR SHALL COORDINATE DAILY WITH PROPERTY AND BUSINESS OWNERS FOR CHANGES TO ACCESS AND DETOUR CONDITIONS.
- THE CONTRACTOR SHALL SUBMIT PROPOSED HAUL ROUTES TO KITSAP COUNTY ROADS DIVISION FOR APPROVAL.
- THE CONTRACTOR SHALL PROVIDE FOR BICYCLE AND PEDESTRIAN ACCESS AROUND OR THROUGH CONSTRUCTION WORK ZONE.
- THE CONTRACTOR SHALL POST MOTORCYCLE SUPPLEMENTAL WARNING SIGNS FOR WORK ZONES WITH STEEL PLATES OR UNEVEN ROADWAY SURFACE.
- DISTANCES SHOWN ON PLANS MAY VARY AS APPROVED BY THE ENGINEER IN COORDINATION WITH KITSAP COUNTY PUBLIC WORKS.

DETAIL A



DETAIL B



NO.	DATE	BY	REVISION

NOTICE

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In Partnership with City of Poulsbo

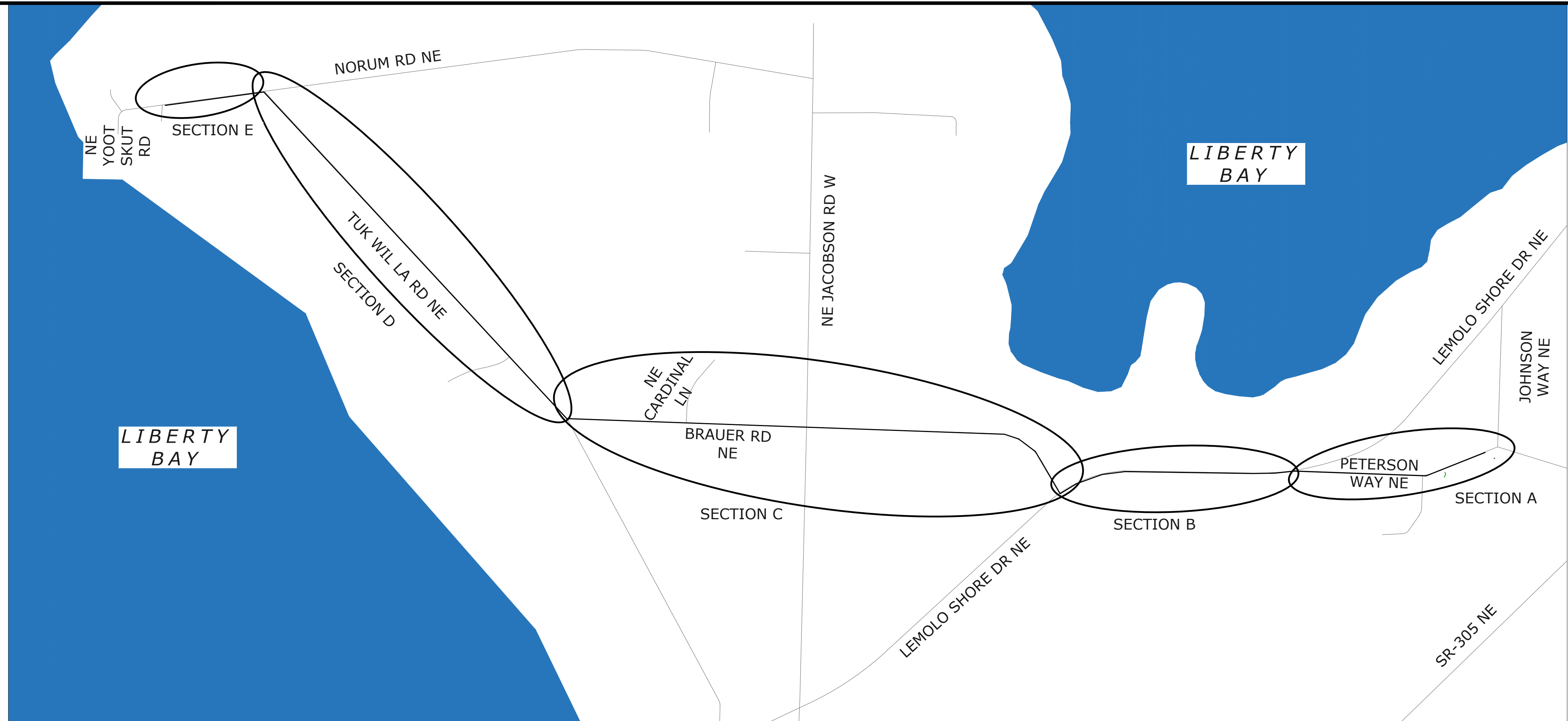
TRAFFIC CONTROL NOTES			
PROJECT NO.:	W220438WA	SCALE:	AS SHOWN
DATE:	MARCH 2024		

SHEET

TC-1

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ROUTE OF JOHNSON NORUM PIPELINE

PLAN
SCALE: NTS

TRAFFIC CONTROL STRATEGY NOTES ON ROADWAYS

- SEE TC-1 FOR TRAFFIC CONTROL NOTES FOR THIS CONTRACT.
- SEWER MAIN CONSTRUCTION IN KITSAP COUNTY RIGHT OF WAY WILL REQUIRE WORK IN BOTH ARTERIAL AND LOCAL ROADWAYS.
- WORK ON THIS CONTRACT WILL OCCUR IN THE FOLLOWING WORK AREAS:
 - SECTION A: PETERSON WAY NE (LOCAL ROAD)
 - SECTION B: LEMOLO SHORE DR. NE (ARTERIAL ROAD)
 - SECTION C: BRAUER RD. NE (LOCAL ROAD)
 - SECTION D: TUKWILA RD. NE (LOCAL ROAD)
 - SECTION E: NORUM RD NE (LOCAL ROAD)
- CONSTRUCTION ON KITSAP COUNTY ROADS SHALL BE CONDUCTED DURING DAYTIME HOURS, DURING AN 8 HOUR PERIOD BETWEEN 7AM AND 6PM, AS APPROVED BY KITSAP COUNTY CONSTRUCTION MANAGER. THE CONTRACTOR MAY REQUEST KITSAP COUNTY APPROVAL FOR ADDITIONAL DAYTIME HOURS, NIGHT WORK OR WEEKEND WORK HOURS.
- CONTRACTOR SHALL MAINTAIN ONE 10' TRAVEL LANE AROUND WORK ZONE WITH FLAGGER CONTROL FOR ALTERNATING TRAFFIC WHEN POSSIBLE. SEE WSDOT WORK ZONE TYPICAL TRAFFIC CONTROL PLAN: TC320 "ALTERNATING: 1-LANE, 2-WAY TRAFFIC: FLAGGER-CONTROLLED" FOR REQUIREMENTS. A COPY OF THE WSDOT PLANS DATED 10/31/2022 ARE INCLUDED IN THIS PLAN SET ON PAGES TC-3 AND TC-4.
- ON COUNTY ROADS WHERE NOT POSSIBLE TO MAINTAIN ONE TRAVEL LANE FOR ALTERNATING TRAFFIC, THE CONTRACTOR MAY APPLY TO CLOSE ROADWAY (LESS THAN 12 HOURS) DURING WORK HOURS AND DEFINE DETOUR ROUTE FOR TRAFFIC, ACCORDING TO GUIDELINES OUTLINED IN SECTION 8.2.2 OF KITSAP COUNTY ROAD STANDARDS FOR TEMPORARY ROAD CLOSURES AND DETOURS. CONTRACTOR SHALL MAINTAIN LOCAL ACCESS TO PROPERTY. CONTRACTOR SHALL RESTORE ROADWAY DAILY FOR EVENING AND WEEKEND LOCAL ACCESS. ANY ROAD CLOSURE LONGER THAN 12 HOURS WOULD REQUIRE COUNTY COMMISSION APPROVAL, TAKING AN ESTIMATED 8-12 WEEKS FOR COUNTY PROCESS AND APPROVAL.
 - DETOURS ARE ANTICIPATED FOR SEWER MAIN CONSTRUCTION ALONG TUKWILA RD NE, BRAUER RD NE AND PETERSON WAY NE. POSSIBLE DETOUR ROUTES ARE PROVIDED ON TC-5 THROUGH TC-8.
 - NORUM RD. NE IS A LOCAL DEAD END ROAD. NO DETOUR SHALL BE PROPOSED, AND CONTRACTOR SHALL MAINTAIN PROTPERTY ACCESS AT ALL TIMES.
- THE CONTRACTOR SHALL PROVIDE CHANGEABLE MESSAGE SIGNS (CMS) TO INFORM THE TRAVELING PUBLIC OF UPCOMING CLOSURES (IF ALLOWED) AND DETOURS OF ARTERIAL ROADS. CMS SHALL BE PLACED ALONG THE CONSTRUCTION ROUTE AND DETOUR ROUTE AT LEAST TWO WEEKS IN ADVANCE OF CLOSURE.
- PUBLIC NOTICE AND ALTERNATE ROUTES: SEWER MAIN CONSTRUCTION WILL IMPACT TRAFFIC ON COUNTY ROADWAYS. THE CONTRACTOR SHALL WORK WITH KITSAP COUNTY TO PROVIDE ADVANCE INFORMATION TO THE TRAVELING PUBLIC (MINIMUM 2 WEEK ADVANCE NOTICE OF CONSTRUCTION) - TO IDENTIFY ALTERNATIVE ROUTES AND TO ENCOURAGE TRAVELERS TO AVOID THE CONSTRUCTION WORK ZONES.

NO.	DATE	BY	REVISION

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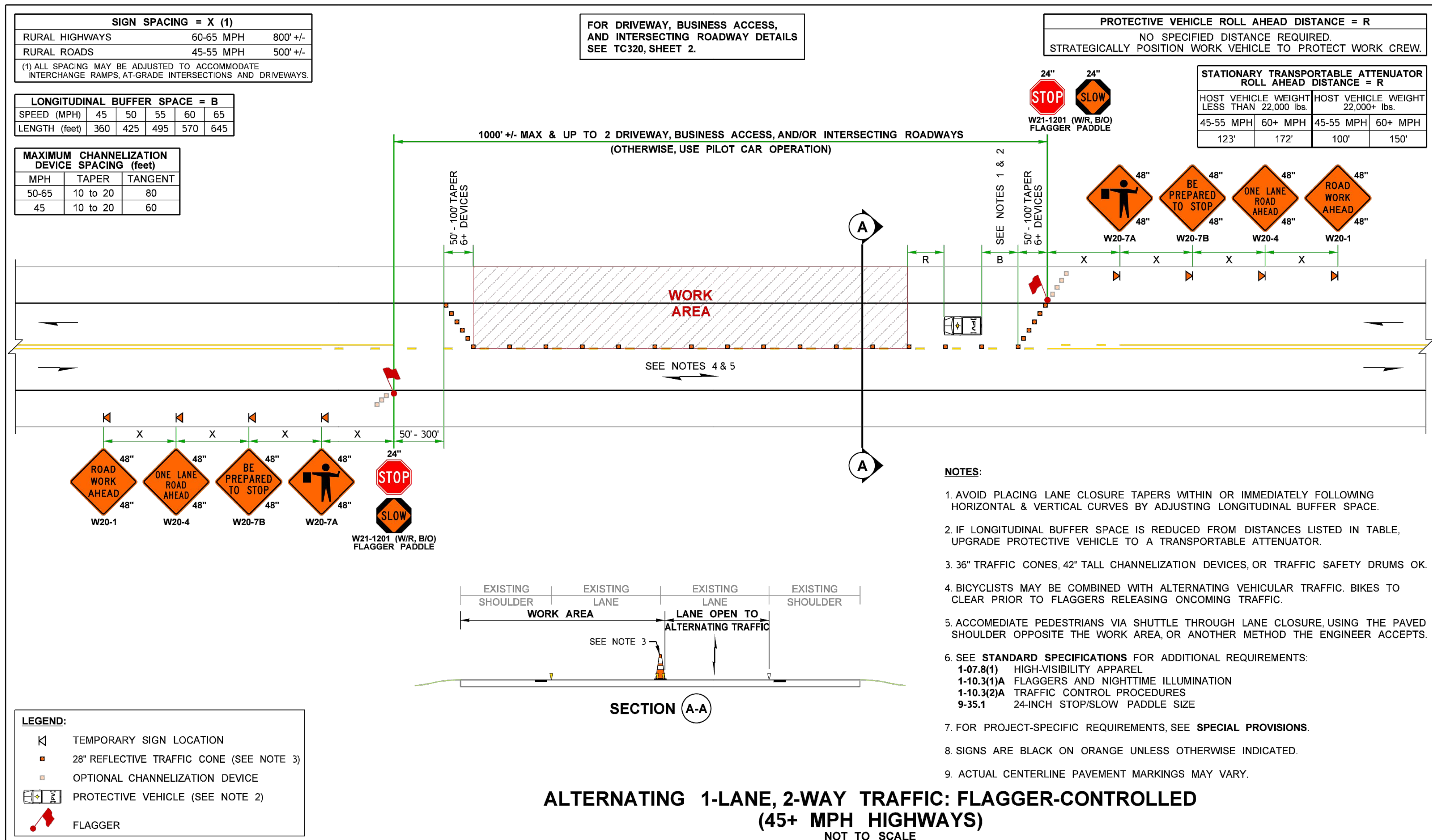


**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**
In Partnership with City of Poulsbo

**TRAFFIC CONTROL PLAN
& NOTES**
PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

SHEET
TC-2
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DATE	10/31/2022	STATE	WASH	TC320
PLOTTED BY	LintzF	JOB NUMBER		SHEET 1 OF 2 SHEETS
DESIGNED BY		CONTRACT NO.		
ENTERED BY		LOCATION NO.		
CHECKED BY				
PROJ. ENGR.				
REGIONAL ADM.		REVISION	DATE	BY

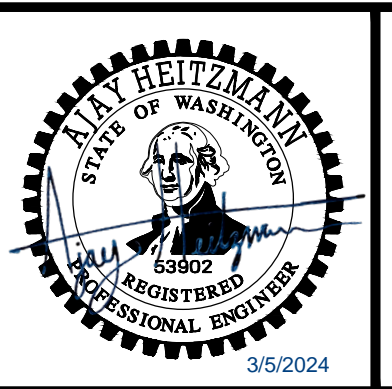
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KITSAP COUNTY WASHINGTON

JOHNSON TO NORUM SEWER MAIN REPLACEMENT

In Partnership with City of Poulsbo

Washington State Department of Transportation

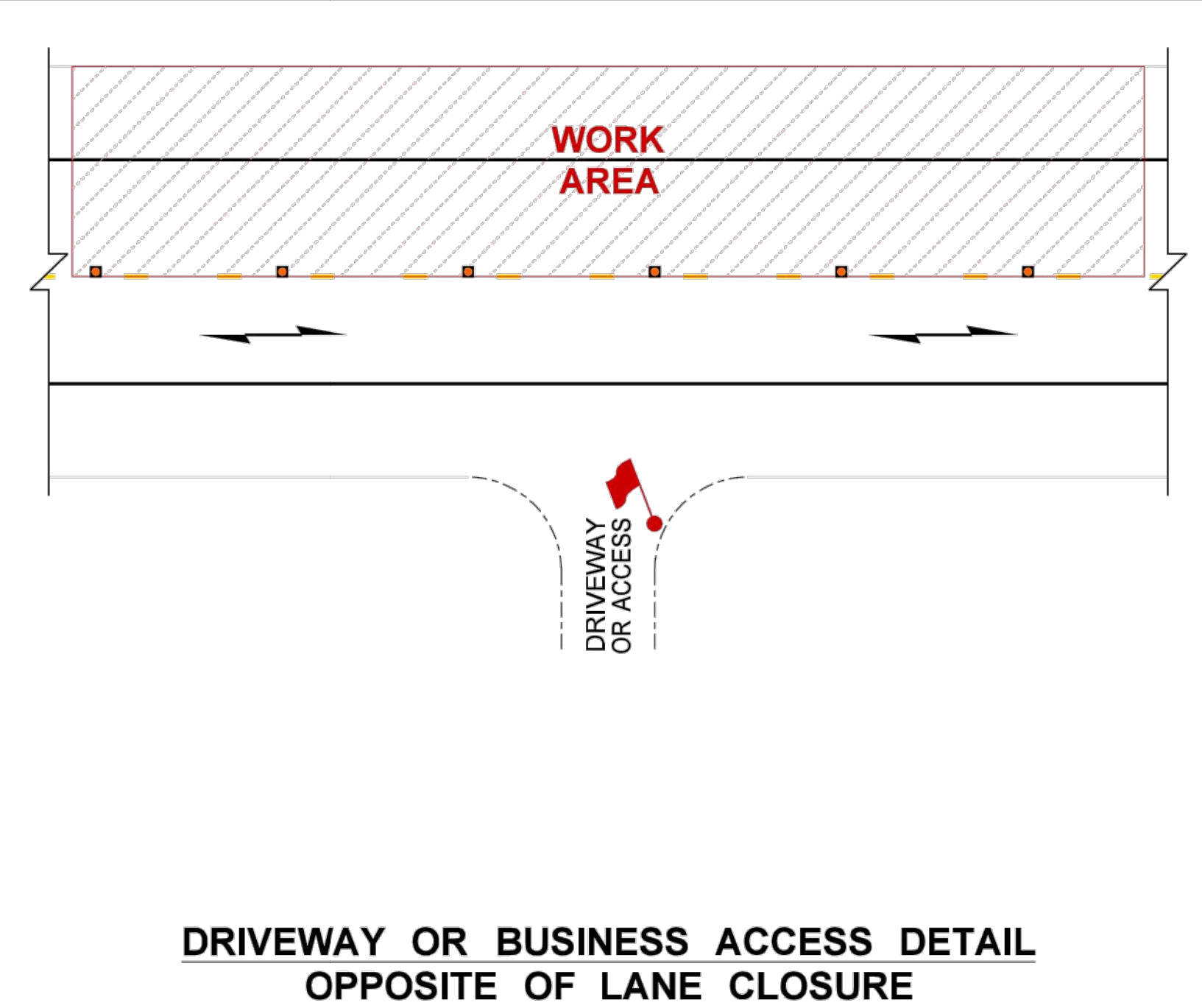
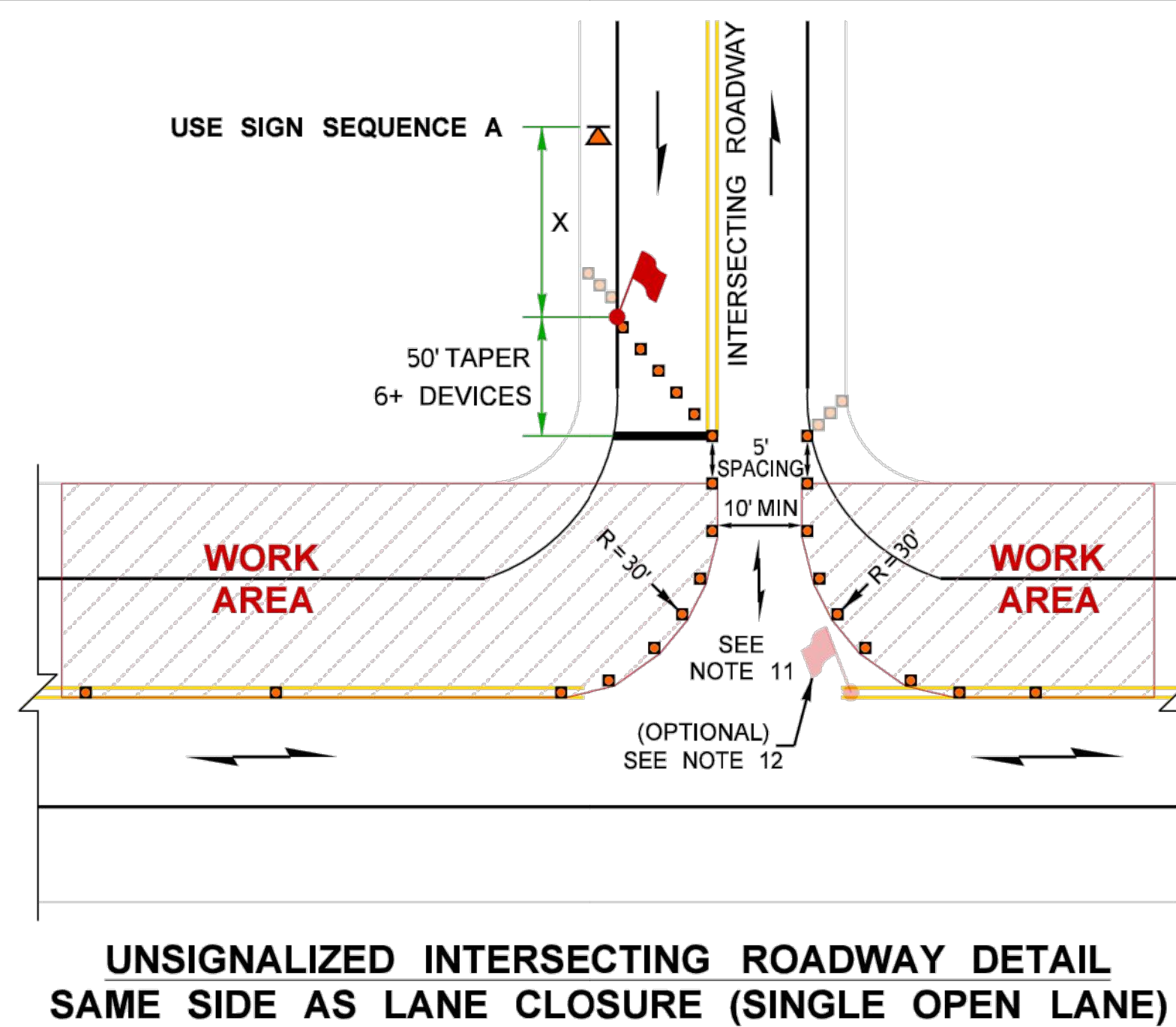
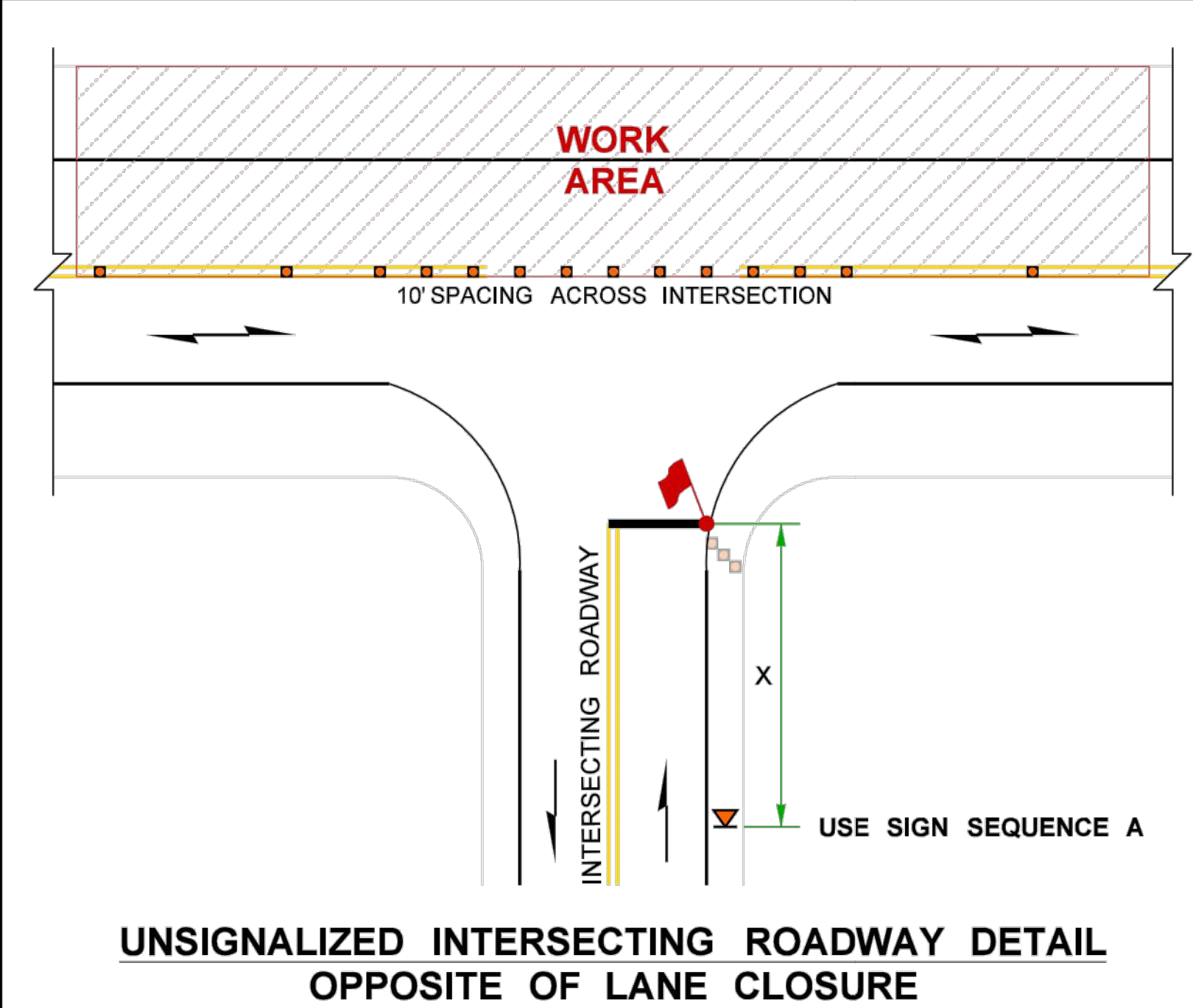
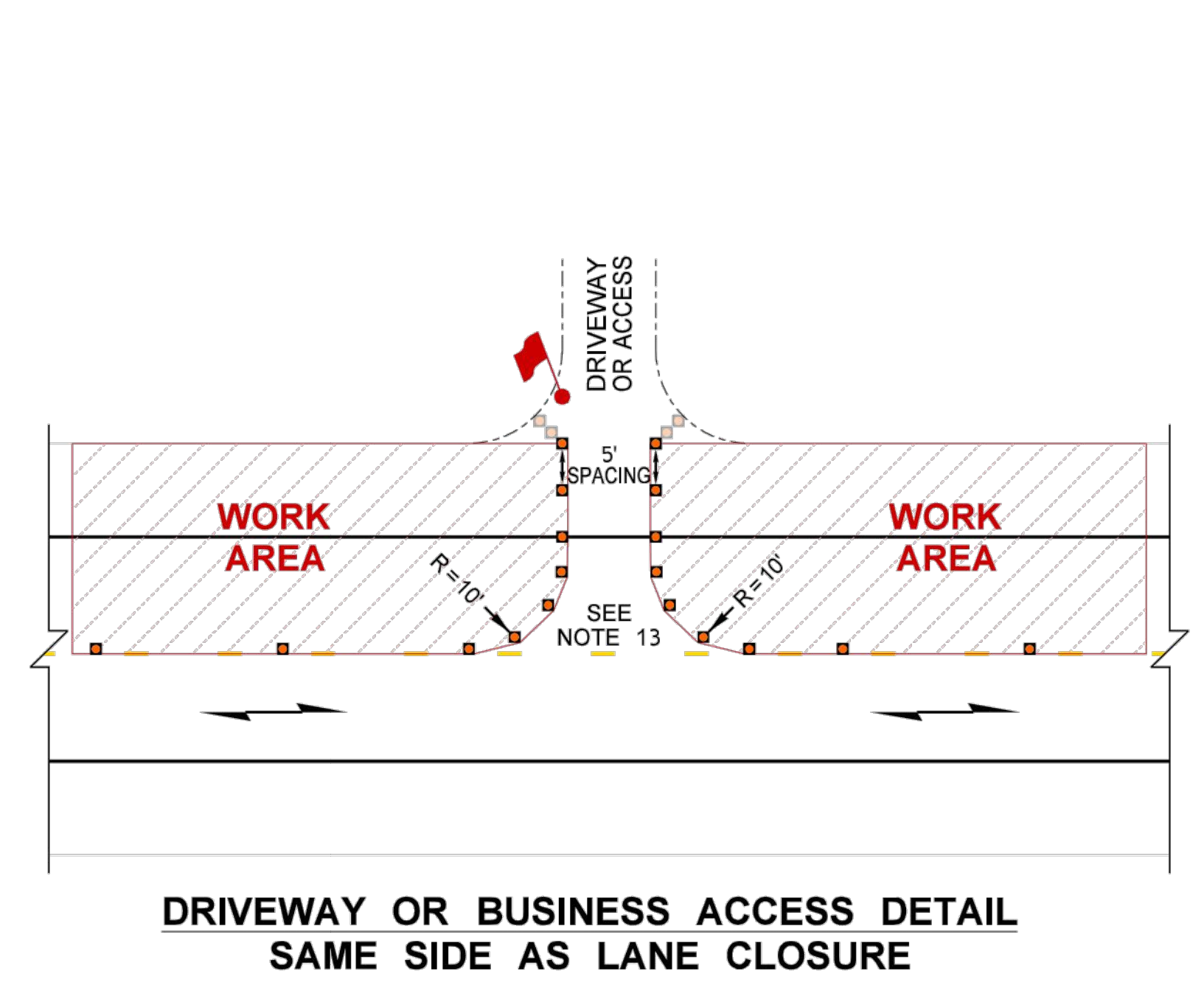
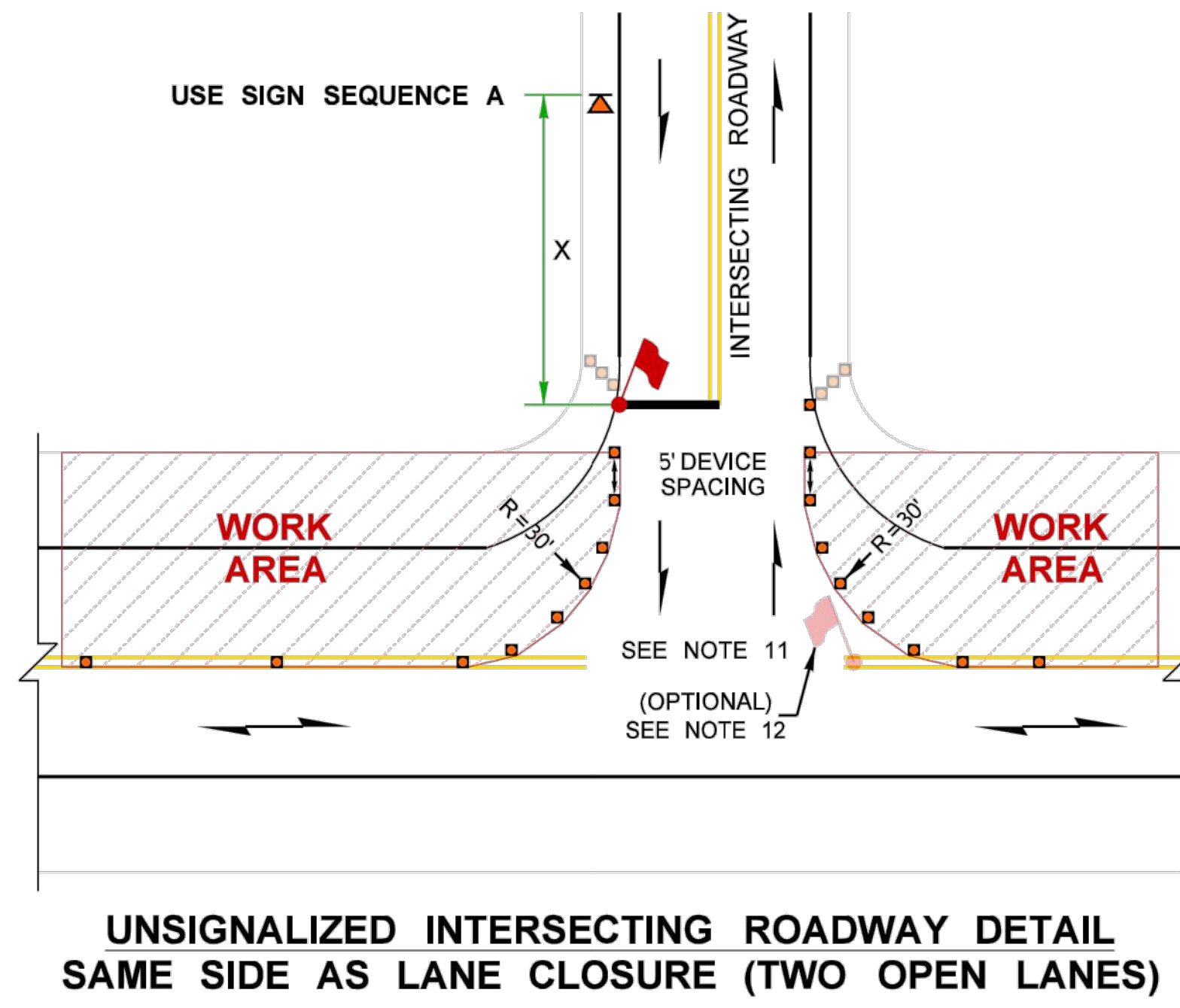
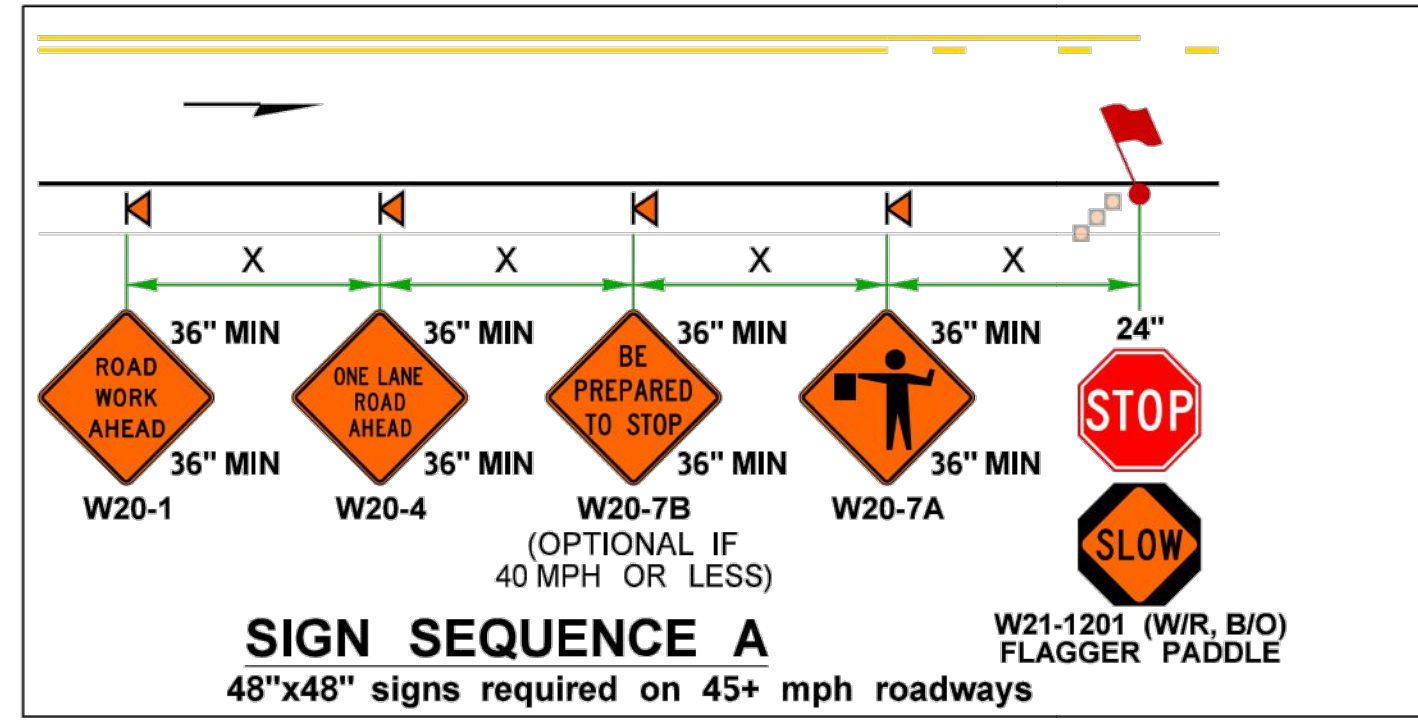
TYPICAL TRAFFIC CONTROL PLANS

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

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NOTES:

- 10. FOR LEGEND, TABLES, AND ADDITIONAL NOTES: SEE TC320, SHEET 1.
- 11. WORK MAY OCCUR ACROSS INTERSECTING ROADWAY APPROACH BY HOLDING ACCESS TRAFFIC UP TO 5 MINUTES AND RESTRICTING TURNS FROM MAINLINE. CHANNELIZATION DEVICES DELINEATING APPROACH MAY BE REMOVED.
- 12. SINGLE FLAGGER MAY BE ADDED TO THE INTERSECTING ROADWAY APPROACH TO HELP GUIDE ALTERNATING TRAFFIC THROUGH INTERSECTION.
- 13. WORK MAY OCCUR ACROSS DRIVEWAY OR ACCESS APPROACH BY HOLDING ACCESS TRAFFIC UP TO 5 MINUTES AND RESTRICTING TURNS FROM MAINLINE. CHANNELIZATION DEVICES DELINEATING ACCESS MAY BE REMOVED.
- 14. PAVEMENT MARKINGS MAY VARY.



ALTERNATING 1-LANE, 2-WAY TRAFFIC: FLAGGER-CONTROLLED (45+ MPH HIGHWAYS)
NOT TO SCALE

FILE NAME: C:\Users\LintzF\OneDrive - Washington State Department of Transportation\Desktop\Work Zone TCPs\320Hwy45+AltTrafficFlagger.dgn				REGION NO. 10		STATE WASH		FED.AID PROJ.NO.		DATE		DATE		PLOT 2	
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DATE: 10/31/2022				DESIGNED BY: AMH		DRAWN BY: ANA		CHECKED BY: AMH		DESIGNED BY: AMH		DRAWN BY: ANA		SHEET 2 OF 2 SHEETS	
PLOTTED BY: LintzF				REVISION		DATE		BY		Washington State Department of Transportation		TYPICAL TRAFFIC CONTROL PLANS			
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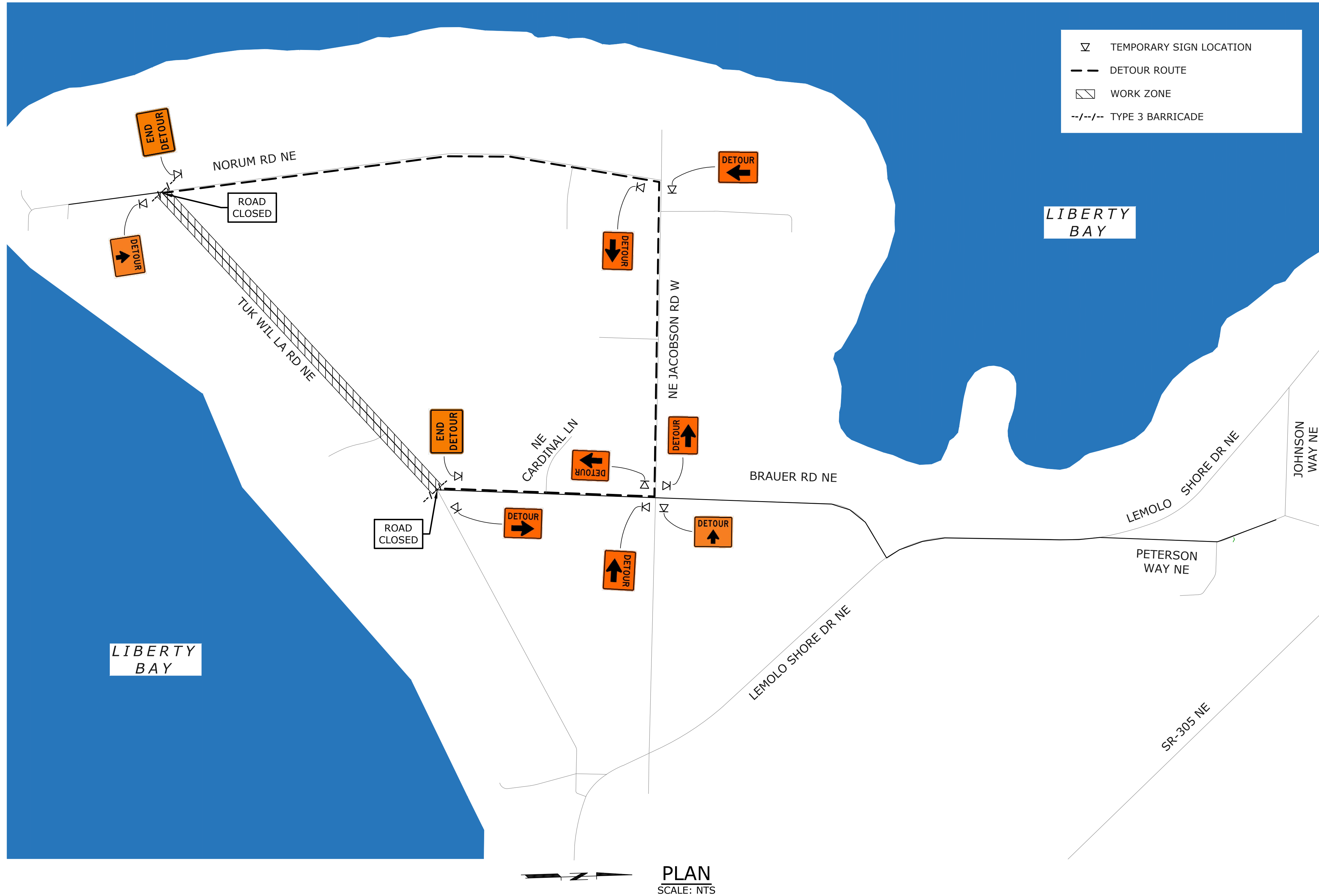
JOHNSON TO NORUM
SEWER MAIN REPLACEMENT

In Partnership with City of Poulsbo

TRAFFIC CONTROL PLANS

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

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NOTES:

- SEE TC-1 FOR TRAFFIC CONTROL NOTES AND FOR SIGN DETAILS. SEE TC-2 FOR TRAFFIC CONTROL STRATEGY.

NO.	DATE	BY	REVISION

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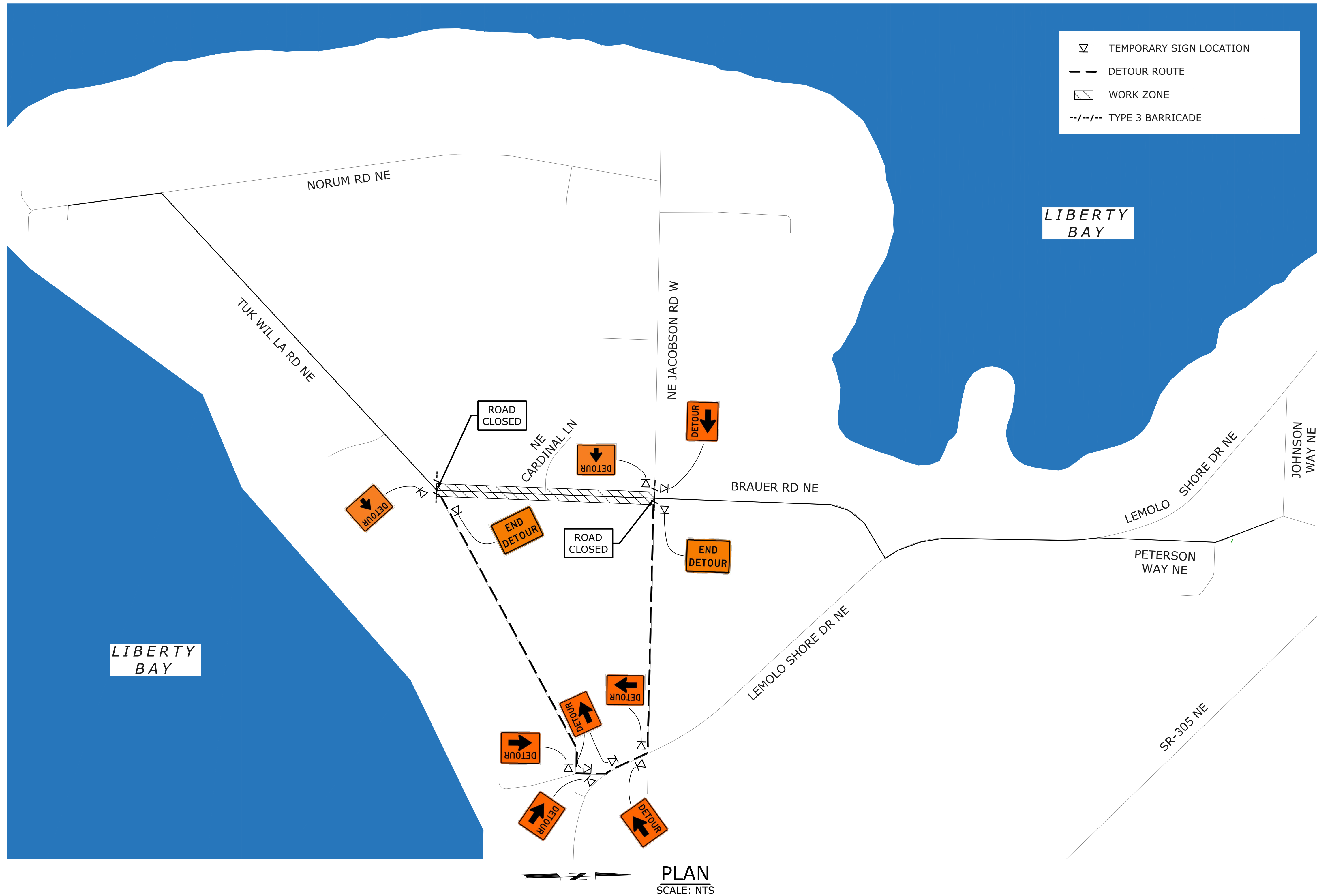
JOHNSON TO NORUM SEWER MAIN REPLACEMENT

In Partnership with City of Poulsbo

TRAFFIC CONTROL PLANS			
PROJECT NO.:	W220438WA	SCALE:	AS SHOWN
DATE:	MARCH 2024		

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NOTES:

- SEE TC-1 FOR TRAFFIC CONTROL NOTES AND FOR SIGN DETAILS. SEE TC-2 FOR TRAFFIC CONTROL STRATEGY.

PLAN
SCALE: NTS

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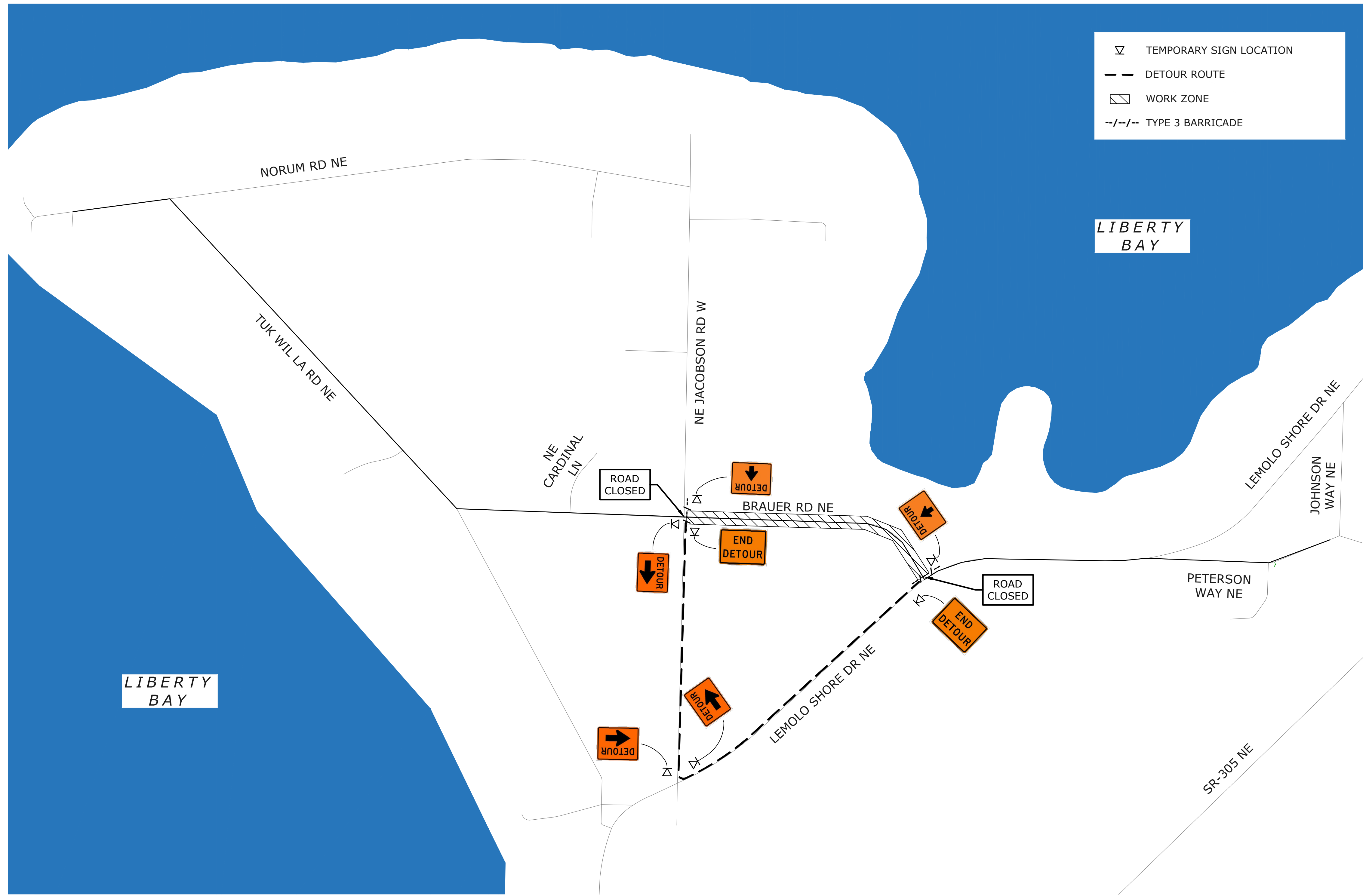


**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

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NOTES:

- SEE TC-1 FOR TRAFFIC CONTROL NOTES AND FOR SIGN DETAILS. SEE TC-2 FOR TRAFFIC CONTROL STRATEGY.

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**JOHNSON TO NORUM
SEWER MAIN
REPLACEMENT**

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

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NOTES:

- SEE TC-1 FOR TRAFFIC CONTROL NOTES AND FOR SIGN DETAILS. SEE TC-2 FOR TRAFFIC CONTROL STRATEGY.

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JOHNSON TO NORUM SEWER MAIN REPLACEMENT

TRAFFIC CONTROL PLANS

PROJECT NO.: W220438WA SCALE: AS SHOWN DATE: MARCH 2024

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