

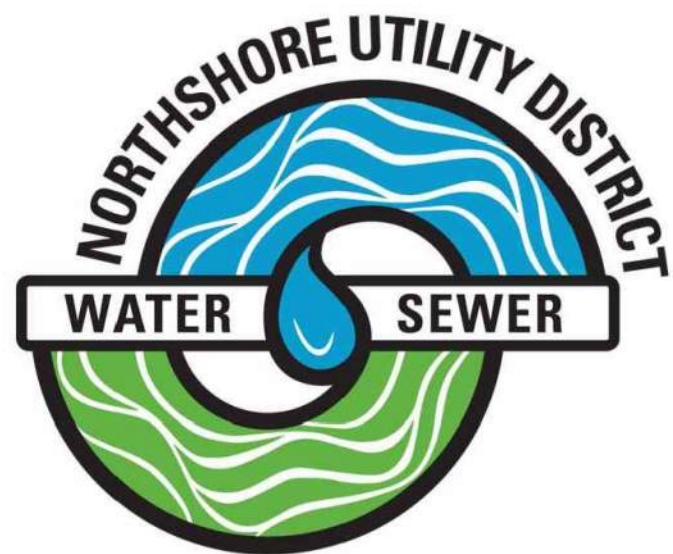
NORTHSHORE UTILITY DISTRICT

King County, Washington

CONTRACT 2023-02

WOODLAND COVE WATER SERVICE REPLACEMENT AND 130/66 WATER MAIN REPLACEMENT

MARCH, 2023 - BID SET

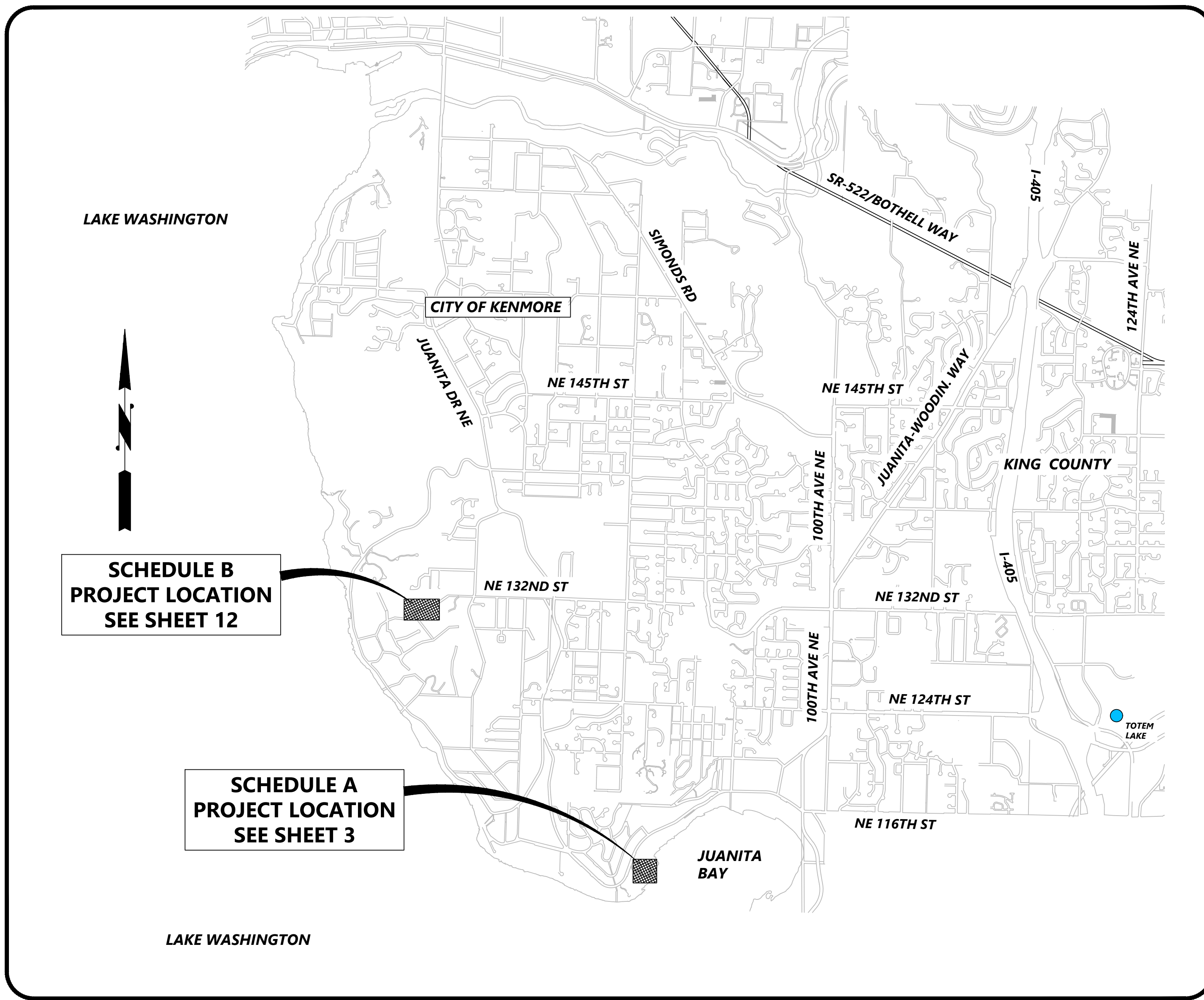


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PACE QA/QC REVIEW
THESE DOCUMENTS HAVE BEEN REVIEWED BY:
NAME: H. P. PAULSEN DATE: 2/21/2023

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SHEET INDEX	
SHEET NO.	TITLE
1	COVER
2	GENERAL NOTES
3	SCHEDULE A PHASING PLAN
4	SCHEDULE A PHASE 1
5	SCHEDULE A PHASE 1
6	SCHEDULE A PHASE 1
7	SCHEDULE A PHASE 1
8	SCHEDULE A PHASE 2
9	SCHEDULE A PHASE 2
10	SCHEDULE A PHASE 2
11	SCHEDULE A PHASE 2
12	TEMPORARY WATER SERVICE PLAN
13	SCHEDULE B PLAN 1
14	SCHEDULE B PROFILE 1
15	SCHEDULE B PLAN 2
16	SCHEDULE B PROFILE 2
17	SCHEDULE B PROFILE 2
18	SCHEDULE B PLAN 3
19	SCHEDULE B PROFILE 3
20	SCHEDULE B RESTORATION PLAN 1
21	SCHEDULE B RESTORATION PLAN 2
22	SCHEDULE B RESTORATION PLAN 3
23	DETAILS
24	DETAILS



SCHEDULE B
PROJECT LOCATION
SEE SHEET 12

SCHEDULE A
PROJECT LOCATION
SEE SHEET 3

VICINITY MAP
NOT TO SCALE

C1817

SHEET
1 OF 24

LEGEND

EXISTING	PROPOSED	DESCRIPTION
---		PROPERTY LINE
---		RIGHT OF WAY LINE
--- FL ---		DITCH CENTERLINE
▶		SIDE SLOPE
		FIRE DEPARTMENT CONNECTION
		DOUBLE CHECK VALVE
F F		FIRE PROTECTION LINE
8" DI W		WATER LINE
8" PDC SS		SANITARY SEWER LINE
SD SD		STORM DRAIN LINE
12" CONCRETE SD		STORM DRAIN CULVERT
SWALE OR DITCH		SWALE OR DITCH
G		GAS LINE
UGP		UNDERGROUND POWER LINE
OMP		OVERHEAD POWER LINE
T		TELEPHONE LINE
C		CABLE LINE
FO		FIBER OPTIC LINE
---		WIRE FENCE
---		WOOD FENCE
---		CHAIN LINK FENCE
		WATER METER
		FIRE HYDRANT
		WATER VALVE
		BLOW OFF ASSEMBLY
		CLEAN OUT
		SANITARY MANHOLE
		STORM DRAIN MANHOLE
		STORM DRAIN CATCH BASIN
		GAS VALVE
		POWER POLE
		GUY ANCHOR
		LIGHT POLE
		SIGNAL POLE
		ELECTRICAL VAULT
		ELECTRICAL HANDHOLE
		COMMUNICATIONS VAULT
		TELEPHONE HANDHOLE
		SIGN
		MONUMENT
		ROCKERY
		ROCK WALL
		MAIL BOX(ES)
		CONIFER TREE
		DECORATIVE TREE
		DECIDUOUS TREE
		SHRUB
		RETAINING WALL
		CEMENT CONCRETE PAVEMENT
		CEMENT CONCRETE CURB, GUTTER
		ASPHALT CONCRETE PAVEMENT
		GRAVEL
		GRASS
		FILTER FABRIC FENCE
		CATCHBASIN INLET PROTECTION
		PROPERTY ADDRESS

GENERAL NOTES:

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CURRENT NORTHSHORE UTILITY DISTRICT STANDARD SPECIFICATIONS AND STANDARD DETAILS.
- THE APPROXIMATE LOCATIONS OF EXISTING UTILITIES ARE SHOWN ON THE PLANS FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF UTILITY LOCATIONS SHOWN, FOR THE PROTECTION AND REPAIR OF DAMAGED UTILITIES AND FOR THE DISCOVERY OF POSSIBLE ADDITIONAL UTILITIES NOT SHOWN ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE LOCATED, BY THE APPROPRIATE UTILITY DISTRICTS OR COMPANIES, ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. FOR UTILITY LOCATES IN KING COUNTY, CALL 1-800-424-5555 PRIOR TO DIGGING.
- A PRE-CONSTRUCTION CONFERENCE WILL BE HELD AT THE DISTRICT OFFICE PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY NORTHSHORE UTILITY DISTRICT A MINIMUM OF FIVE (5) DAYS IN ADVANCE OF BEGINNING CONSTRUCTION. CONSTRUCTION SHALL NOT BEGIN WITHOUT PRIOR WRITTEN NOTICE TO PROCEED BY THE DISTRICT.
- THE CONTRACTOR SHALL NOT OPERATE ANY VALVES OR MAKE ANY CONNECTIONS TO THE EXISTING WATER SYSTEM WITHOUT PRIOR APPROVAL FROM THE DISTRICT.

SURVEY CONTROL DATA

HORIZONTAL DATUM:

WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE NAD83(91), US FEET UTILIZING RTK GPS FIELD PROCEDURES

CONTOUR INTERVAL: (2') TWO FOOT CONTOURS

VERTICAL DATUM: NAVD88, US FEET AS PRESCRIBED BY NORTHSHORE UTILITY DISTRICT.

UTILITIES MAPPING:

ALL EXISTING UTILITIES SHOWN HEREIN ARE TO BE VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION. ALL EXISTING FEATURES INCLUDING BURIED UTILITIES ARE SHOWN AS INDICATED BY RECORD LOCATION OR FIELD TIED AS A RESULT OF A UTILITY PAINT-OUT DURING THE COURSE OF THE FIELD SURVEY. DUANE HARTMAN & ASSOCIATES, INC. (DHA) ASSUMES NO LIABILITY FOR THE ACCURACY OF THE RECORD INFORMATION. FOR THE FINAL LOCATION OF THE EXISTING UTILITIES IN AREAS CRITICAL TO CONSTRUCTION, CONTACT THE UTILITY OWNER/AGENCY AND UTILITIES UNDERGROUND CENTER (800/424-5555).

TOPOGRAPHIC MAPPING:

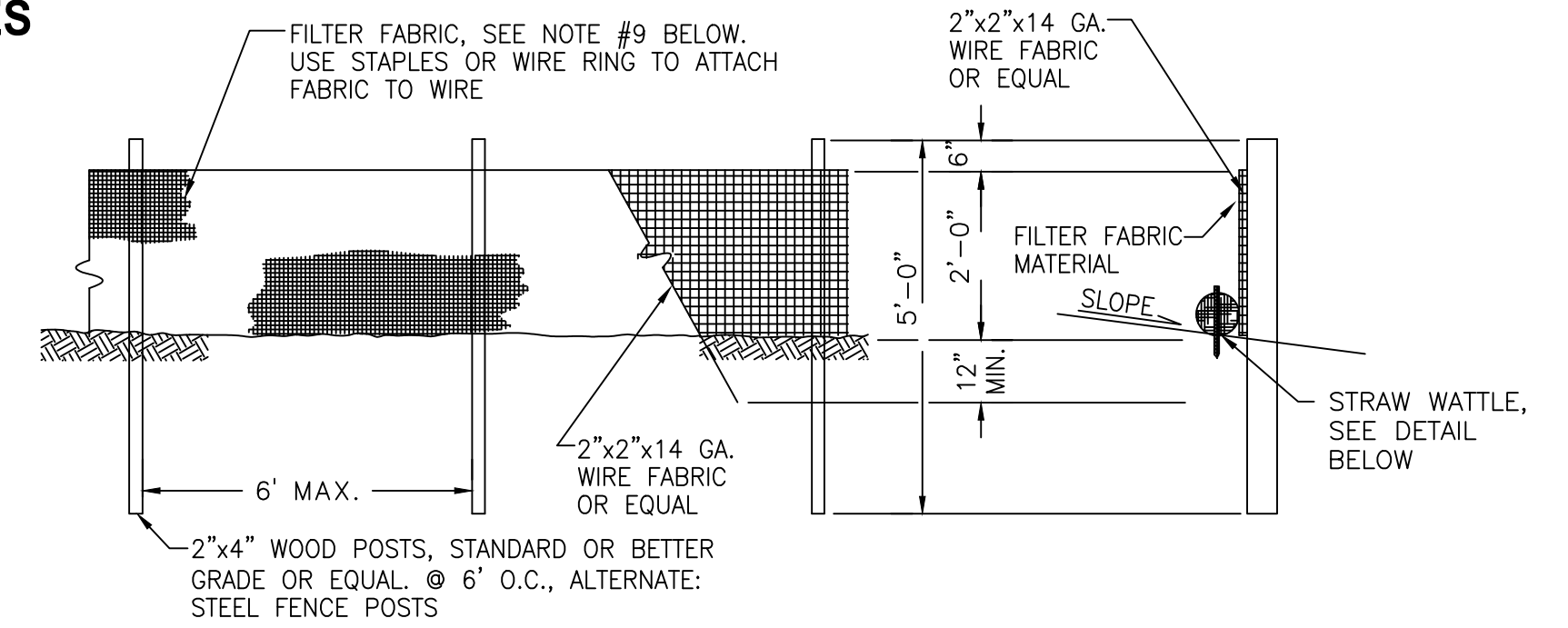
THE MAP SHOWN HEREON IS THE RESULT OF A TOPOGRAPHIC SURVEY BY DUANE HARTMAN & ASSOCIATES, INC. (DHA) COMPLETED ON OCTOBER 2018. DHA ASSUMES NO LIABILITY, BEYOND SAID DATE, FOR ANY FUTURE SURFACE FEATURE MODIFICATIONS OR CONSTRUCTION ACTIVITIES THAT MAY OCCUR WITHIN OR ADJOINING THE PERIMETER OF THIS SURVEY. CONTACT DHA (425) 483-5355 FOR SITE UPDATES AND VERIFICATIONS.

BENCHMARKS:



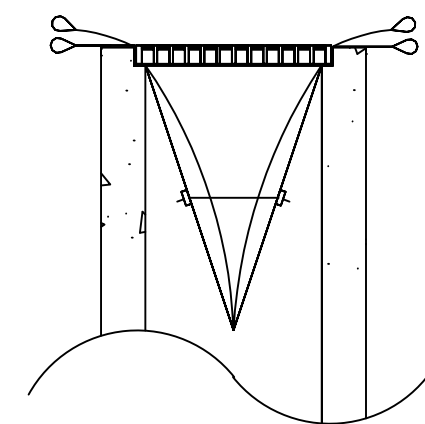
TEMPORARY EROSION AND SEDIMENTATION CONTROL NOTES

- THE TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) FACILITIES SHALL BE IMPLEMENTED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE STORM DRAIN INLET PROTECTION DEVICE SHALL BE SILT SACK OR EQUAL. ALL CATCH BASINS WITHIN THE VICINITY OF THE CONSTRUCTION SHALL HAVE INLET PROTECTION MEASURES.
- CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE CHANNELS, CULVERTS, SWALES AND STRUCTURES. WHENEVER EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE SUITABLE MEANS FOR DIVERTING AND MAINTAINING ALL FLOWS DURING CONSTRUCTION IN THAT AREA AT ITS EXPENSE. AFTER CONSTRUCTION HAS BEEN COMPLETED, ALL DRAINAGE CHANNELS, CULVERTS, SWALES AND STRUCTURES DISTURBED SHALL BE RETURNED TO THEIR ORIGINAL CONDITIONS.
- THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, TESC FACILITIES SHALL BE MAINTAINED AND UPGRADED AS NECESSARY BY THE CONTRACTOR.
- CONTRACTOR SHALL INSPECT THE TESC FACILITIES AT THE END OF EACH WORKING DAY TO ASSURE ITSELF THAT THEY ARE IN GOOD CONDITIONS. IF TESC FACILITIES REQUIRE REPAIR/MAINTENANCE, IT SHALL BE PERFORMED PRIOR TO THE END OF THE WORKING DAY. ALL DISTURBED AREAS SHALL BE PROMPTLY AND THOROUGHLY STABILIZED AGAINST EROSION DURING PERIODS OF WET WEATHER WHEN WORK IS NOT BEING PERFORMED AT THE SITE.
- ALL UNSUITABLE OR SURPLUS EXCAVATED OR CLEARED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN APPROVED, LEGAL FILL SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ACCEPTABLE DISPOSAL SITES AND ASSURE THAT ALL SURPLUS MATERIAL IS DISPOSED OF IN SAME.
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL APPROPRIATE MEASURES NEEDED (STREET SWEEPERS, WATER TRUCKS, ETC.) TO KEEP STREETS AND ROADS USED AS HAUL ROUTES FOR EXPORT OR IMPORT OF MATERIAL CLEAN AND FREE FROM DEBRIS, MUD, ETC.. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

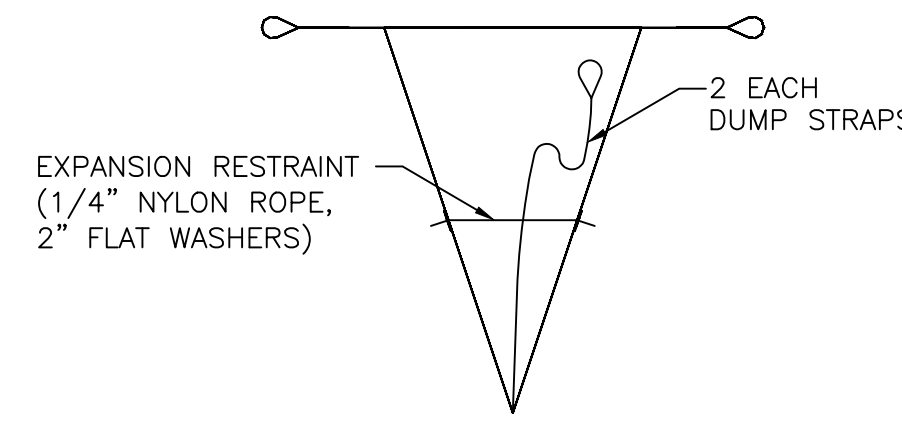


NOTES

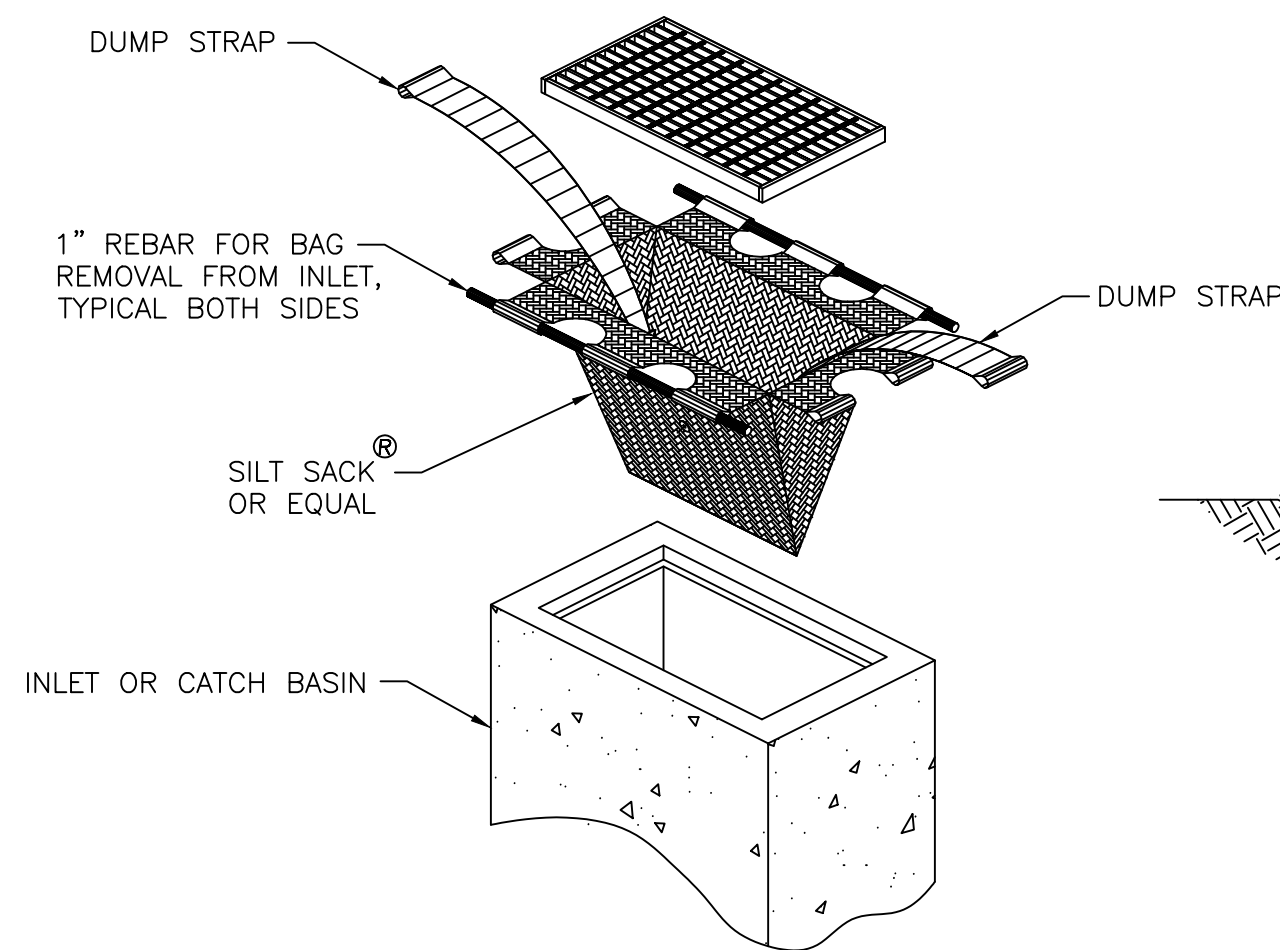
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.
- THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRE OR HOG RINGS.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED ACROSS THE GROUND, UPSLOPE AND ADJACENT TO THE WOOD POST. THE FABRIC SHALL NOT EXTEND MORE THAN 30 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE 3 APPLYING.
- FABRIC SHALL BE SECURED AT THE BASE BY PEA-ROCK FILLED SANDBAGS OR STRAW WATTLES PLACED END TO END.
- FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- FILTER FABRIC SHALL BE PER CURRENT GEOTEXTILE FABRIC STANDARDS FOR SILT FENCE IN THE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.



INSTALLATION DETAIL

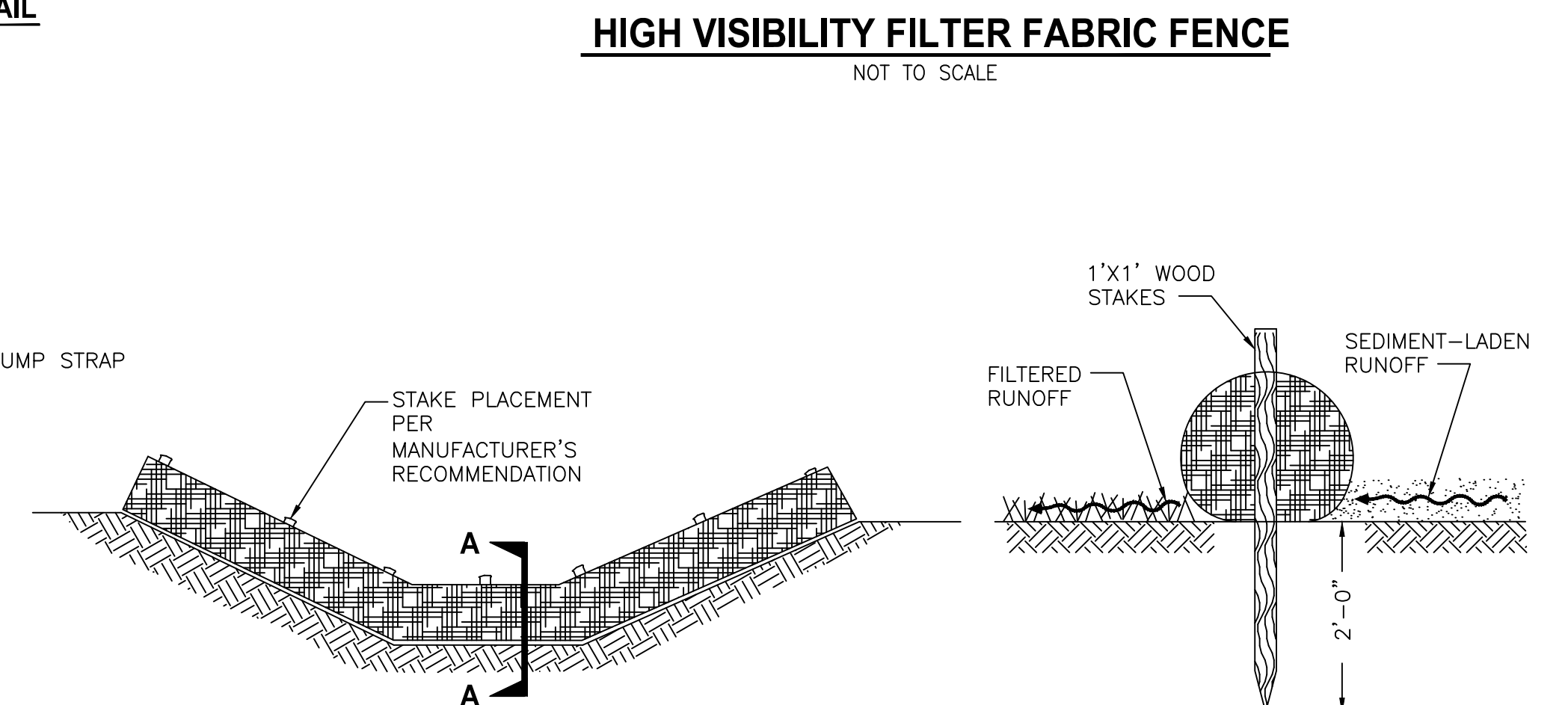


BAG DETAIL



STORM DRAIN INLET PROTECTION

NOT TO SCALE

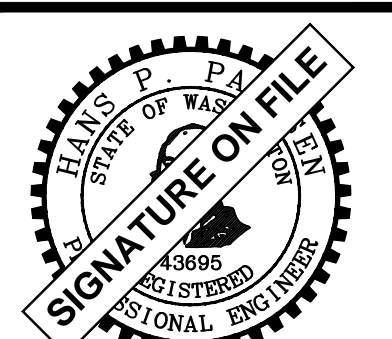


PLACEMENT OF STRAW WATTLE

CROSS SECTION A-A

STRAW WATTLE DAM

NOT TO SCALE



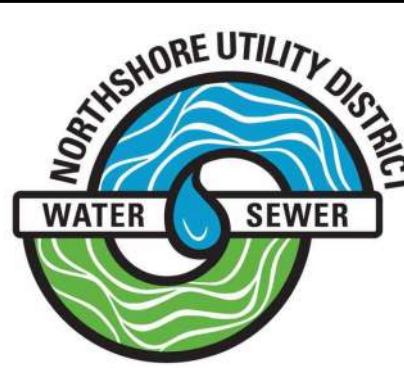
NO	BY	APPD	REVISION	DATE

WARNING

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DESIGNED BY	MB
DRAWN BY	AMJ
CHECKED BY	HPP
APPROVAL	HPP
DATE	MAR 2023



NORTHSHORE UTILITY DISTRICT

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CONTRACT 2023-02
 WOODLAND COVE WATER SERVICE REPLACEMENT

GENERAL NOTES

BASE MAP L7

C1817

SHEET

2 OF 24

BID SET DRAWING - NOT FOR CONSTRUCTION

WOODLAND COVE PHASING

1. THE WOODLAND COVE PROJECT SHALL BE DIVIDED INTO TWO PHASES. A NORTHERN AND SOUTHERN PHASE.
2. PHASE 1 INCLUDES ALL WATER SERVICES BETWEEN THE NORTHEAST WATER VALVE IN JUANITA BLVD AND THE INTERMEDIARY GATE VALVE NEAR THE SOUTHWEST CORNER OF NE WOODLAND COVE DRIVE. SERVICES TO BE REPLACED INCLUDE 8422, 8437, 8442, 8443, 8449, 8455, 8461, 8473, 8486, 8493, 8479, 8483, AND 8487 NE WOODLAND COVE DRIVE.
3. PHASE 2 INCLUDES ALL WATER SERVICES BETWEEN THE SOUTHWEST WATER VALVE IN JUANITA BLVD AND THE INTERMEDIARY GATE VALVE NEAR THE SOUTHWEST CORNER OF NE WOODLAND COVE DRIVE. SERVICES TO BE REPLACED INCLUDE 10946, 10945, 10939, 10938, AND 10933 84TH PLACE NE AND 8496, 8407, 8413, 8419, 8425 AND 8431 NE WOODLAND COVE DRIVE.

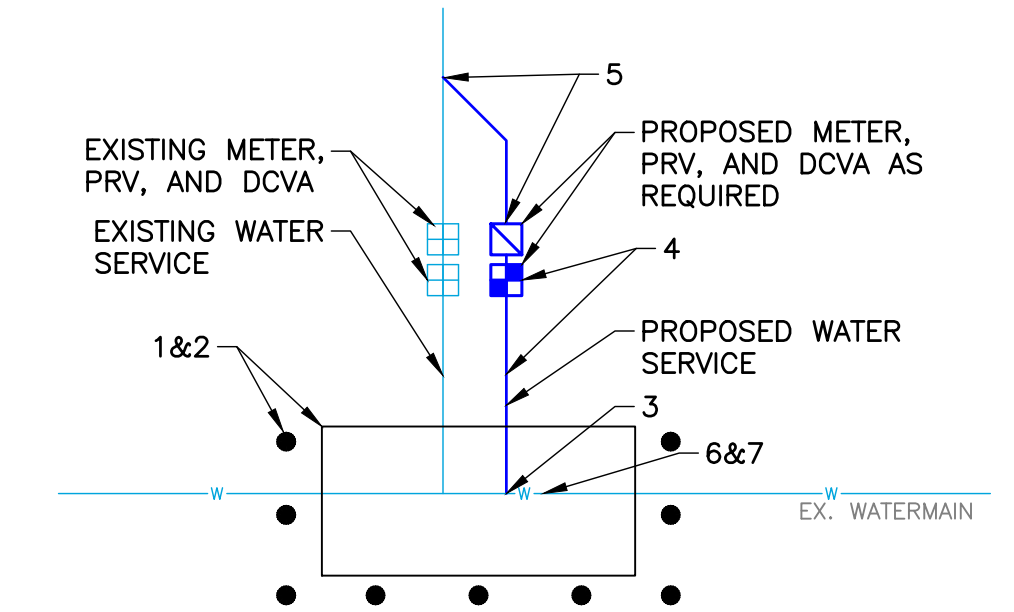
PROPOSED CONSTRUCTION SEQUENCE

PHASE 1

1. CONTRACTOR SHALL REMOVE AND SAVE EXISTING PAVERS LOCATED WITHIN THE DETERMINED EXCAVATION AREA. CONTRACTOR SHALL THEN EXCAVATE AT THE EXISTING WATER MAIN TO EXPOSE THE NEW CORP WET TAP LOCATIONS AND EXISTING SADDLES. IF THE CONTRACTOR PREFERS TO OPEN TRENCH THE NEW WATER SERVICE, AMEND THIS STEP TO ALSO INCLUDE THE LIMITS OF THE NEW WATER SERVICE TRENCH.
2. AFTER THE EXISTING WATER MAIN IS EXPOSED, CONTRACTOR SHALL COVER EXCAVATION WITH STEEL SHEETS AND PROTECT WITH TRAFFIC CONES. STEEL SHEET PINS ARE NOT ALLOWED FOR SHEET ANCHORING, THEREFORE, TRAFFIC SHALL NOT BE ALLOWED ON STEEL SHEETS. ENSURE EMERGENCY VEHICLE ACCESS IS MAINTAINED THROUGHOUT CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE WITH INSPECTOR TO ENSURE EXCAVATION AND SHORING ARE IN PLACE FOR NUD OPS TO INSTALL THE 1" WATER SERVICE WET TAPS, INCLUDING NEW CORP. EXISTING WATER VALVES SHALL ONLY BE OPERATED BY NUD OPS. CONTRACTOR IS PROHIBITED FROM OPERATING EXISTING VALVES.
4. CONTRACTOR SHALL INSTALL NEW WATER SERVICE LINES, SETTERS, METER BOXES, AND APPURTENANCES. EXISTING METERS SHALL BE REUSED. SERVICE TRENCHES SHALL BE BACKFILLED FULL DEPTH WITH CRUSHED ROCK AND COMPACTED PER THE SPECIFICATIONS. EXCAVATIONS AT THE EXISTING WATER MAIN, INCLUDING NEW TAP AND EXISTING SADDLE, SHALL REMAIN UNBACKFILLED, COVERED WITH STEEL SHEETS, AND PROTECTED WITH TRAFFIC CONES.
5. CONTRACTOR TO POTHOLE PRIVATE SIDE WATER SERVICES IN ORDER TO DETERMINE PARTS AND FITTINGS REQUIRED FOR SERVICE TRANSFERS. CONTRACTOR SHALL COORDINATE WITH INDIVIDUAL PROPERTY OWNERS FOR SERVICE DISRUPTION IN ORDER TO INSTALL THE BACKSIDE SERVICE TRANSFERS TO THE NEW SETTERS. DISRUPTION OF SERVICE SHALL BE LIMITED AS MUCH AS POSSIBLE.
6. CONTRACTOR SHALL CONTACT NUD INSPECTOR AT LEAST 72 HOURS AHEAD OF ANTICIPATED WATER MAIN SHUTDOWN. ALL WATER SERVICES WITHIN PHASE 1 SHALL BE FULLY TRANSFERRED PRIOR TO WATER MAIN SHUTDOWN. CUSTOMERS WILL BE NOTIFIED BY NUD OF ANTICIPATED SHUTDOWN AT LEAST 24 HOURS IN ADVANCE. WATER MAIN SHUTDOWN TIME SHALL BE LIMITED BETWEEN THE HOURS OF 8:00AM AND 3:30PM. DURING WATER MAIN SHUTDOWN, CONTRACTOR SHALL REMOVE ALL EXISTING PHASE 1 SADDLES AT THE WATER MAIN AND INSTALL ROMAC SS1, 6" LONG REPAIR BANDS.
7. REMOVE SHEETS AND BACKFILL FULL DEPTH CRUSHED ROCK AT EACH SADDLE LOCATION.

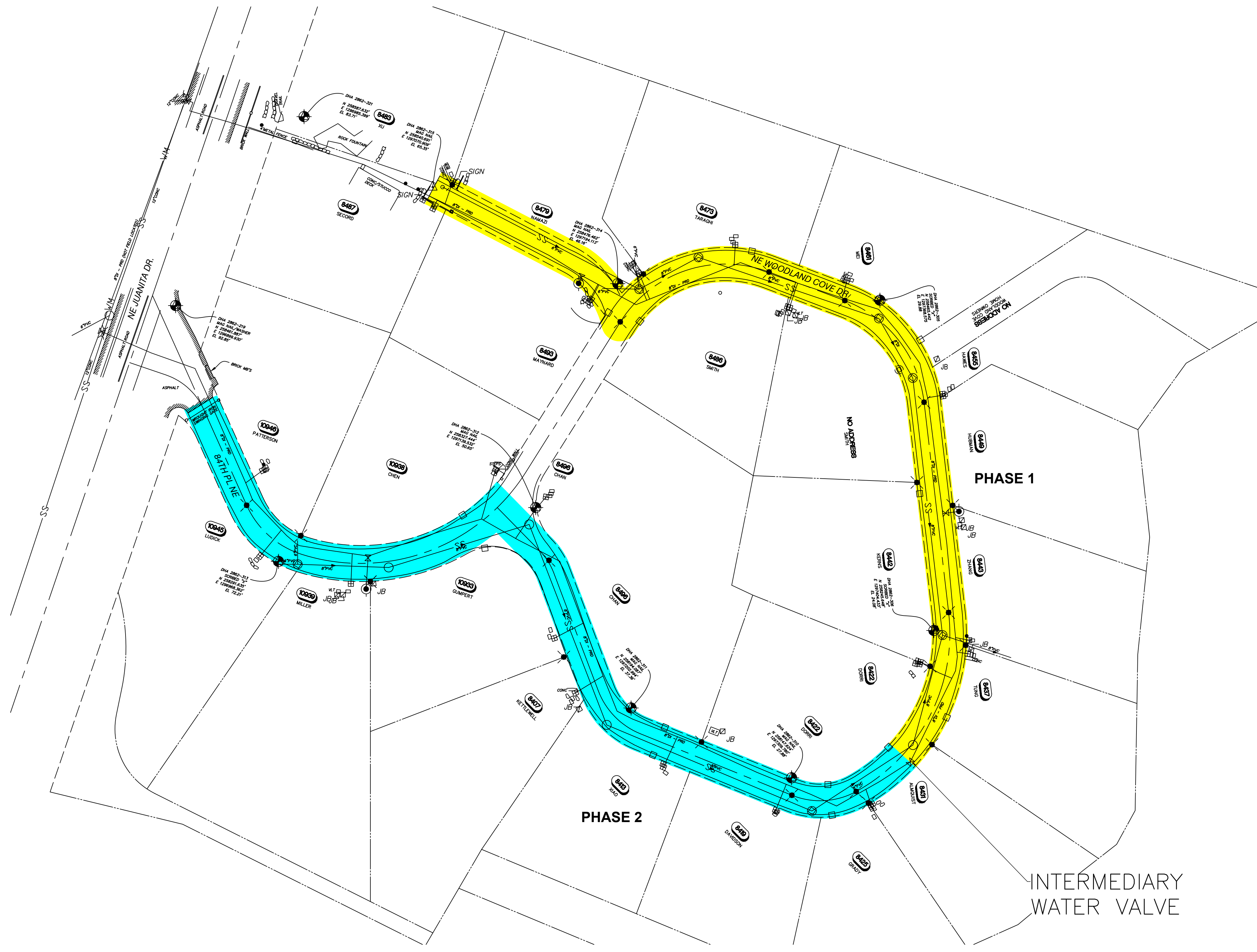
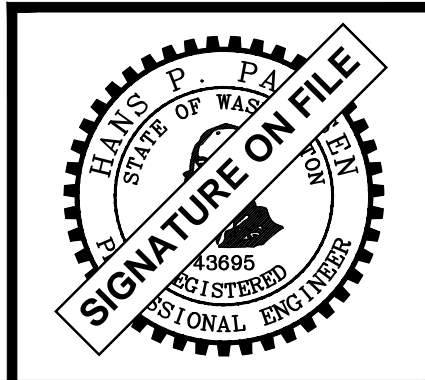
PHASE 2

8. REPEAT STEPS ABOVE FOR PHASE 2.
9. ONCE BOTH WATER PHASES ARE COMPLETE, SCHEDULE BRICK PAVER ROADWAY RESTORATION FOR BOTH PHASES. SEE SPECIFICATIONS AND DETAIL ON SHEET 24 FOR MORE INFORMATION.



PROPOSED CONSTRUCTION SEQUENCE FIGURE

SCALE: NTS



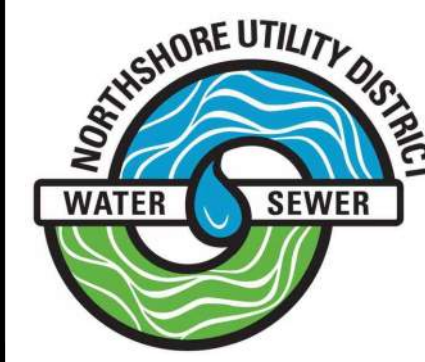
OVERALL SITE PLAN
SCALE: 1"=40'

NO	BY	APPD	REVISION	DATE
BID SET DRAWING - NOT FOR CONSTRUCTION				

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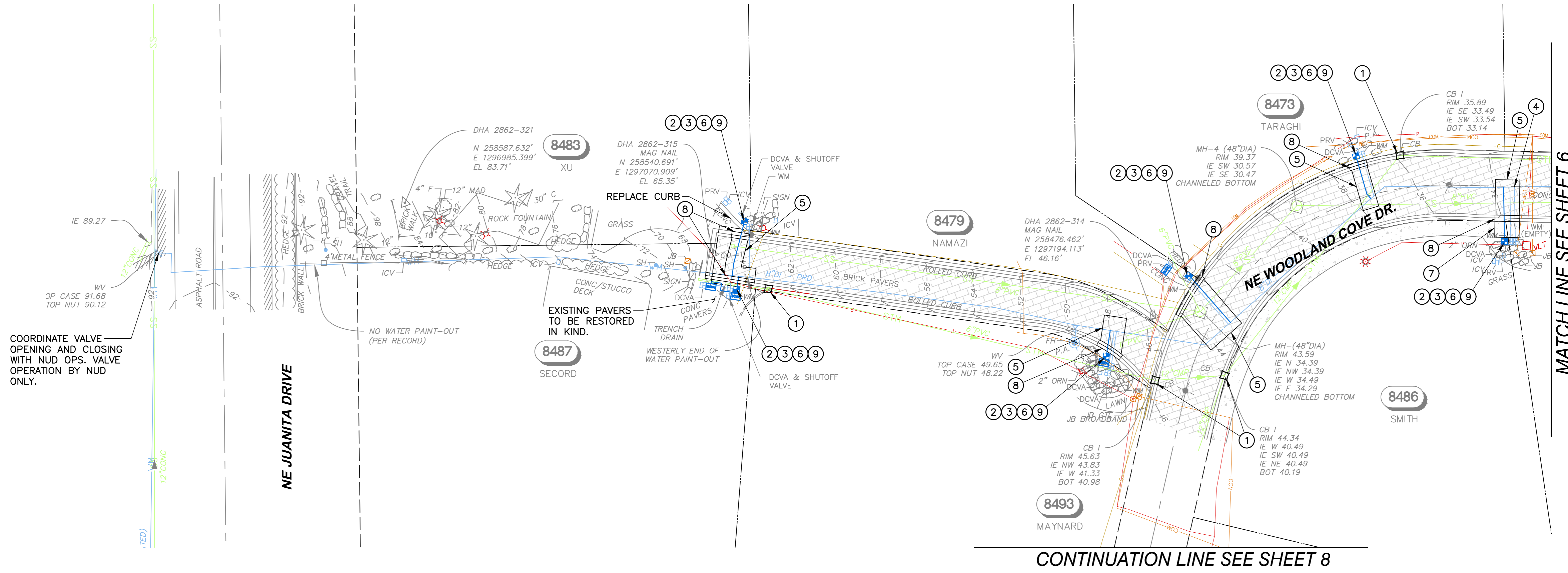
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CONTRACT 2023-02
WOODLAND COVE WATER SERVICE REPLACEMENT

SCHEDULE A PHASING PLAN

BASE MAP L7
C1817
SHEET
3 OF 24

NW 1/4, SEC 31, T26N, R5E



MATCH LINE SEE SHEET 6

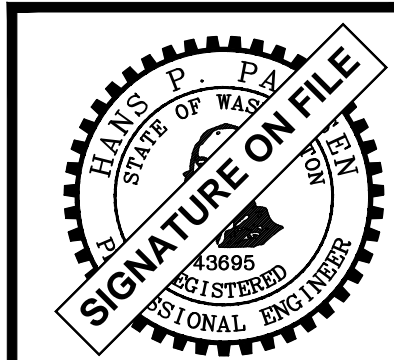
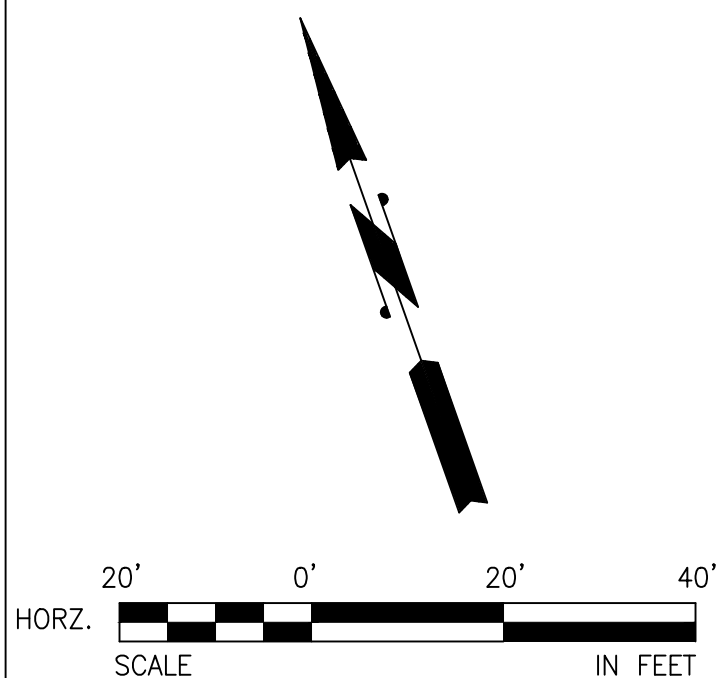
CONTINUATION LINE SEE SHEET 8

GENERAL NOTES

- SEE SHEET 2 FOR GENERAL NOTES, LEGEND, AND SURVEY CONTROL INFORMATION.
- PRIOR TO EXCAVATION, INSTALL TESC FACILITIES PER SHEET 2.
- COORDINATE AND CONFIRM FITTING REQUIREMENTS IN THE FIELD WITH THE DISTRICT PRIOR TO CONSTRUCTION.
- ALL BURIED WATER MAIN SHALL BE RESTRAINED JOINT (R.J.) PIPE WITH FIELD LOK GASKETS (OR APPROVED EQUAL) AND POLYETHYLENE ENCASUREMENT PER NUD STANDARD SPECIFICATIONS.
- LOCATION AND DEPTH OF EXISTING 8" DUCTILE IRON WATER MAINS SHALL BE VERIFIED PRIOR TO WET-TAPPING (TYP.).
- CONTRACTOR SHALL USE APPROPRIATE EQUIPMENT TO MINIMIZE DAMAGE TO PAVERS IN THE ROADWAY, SUCH AS RUBBER TIRES AND TREADS. PAVERS DAMAGED DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DISTRICT.
- ALL SERVICE CONNECTIONS ARE ASSUMED TO HAVE A PRIVATE PRV DEVICE ON THE BACKSIDE OF THE METER. UNLESS OTHERWISE NOTED, A REPLACEMENT PRV DEVICE SHALL BE INSTALLED AT THE TIME OF RECONNECTION. SEE SPECIFICATIONS FOR PRESSURE TESTING REQUIREMENTS. SEE SHEET 20 FOR STANDARD DETAIL.
- WATER SERVICE INSTALLATION MAY BE COMPLETED BY EITHER OPEN TRENCH OR TRENCHLESS CONSTRUCTION. MEANS AND METHODS FOR WATER SERVICE INSTALLATION SHALL BE DETERMINED BY THE CONTRACTOR.
- FINAL METER BOX LOCATION SHALL BE COORDINATED WITH AND APPROVED BY THE NUD INSPECTOR.
- REFER TO SHEET 3 FOR CONSTRUCTION SEQUENCING

CONSTRUCTION NOTES

- CATCH BASIN AND INLET SEDIMENTATION PROTECTION REQUIRED, SEE SHEET 2 FOR ADDITIONAL INFORMATION.
- INSTALL NEW 1" WATER SERVICE PER THE STANDARD DETAIL, SEE SHEET 20.
- EXISTING WATER SERVICE SADDLE, METER BOX, AND SETTER TO BE REMOVED AND DISPOSED. EXISTING METER TO BE REUSED AND TRANSFERRED TO THE NEW SETTER BY THE CONTRACTOR UNDER DISTRICT INSPECTION. ABANDON EXISTING WATER SERVICE PIPE IN PLACE. WATER MAIN SHALL BE REPAIRED WITH ROMAC SS1, 6" LONG REPAIR BANDS.
- EXISTING WATER SERVICE SADDLE, METER BOX, AND SETTER TO BE REMOVED AND DISPOSED. ABANDON EXISTING WATER SERVICE PIPE IN PLACE. WATER MAIN SHALL BE REPAIRED WITH ROMAC SS1, 6" LONG REPAIR BANDS.
- REMOVE AND SAVE EXISTING ROADWAY AND DRIVEWAY BRICK PAVERS. REPLACE ONCE BACKFILL IS COMPLETE. SEE SPECIFICATIONS AND DETAIL ON SHEET 24 FOR MORE INFORMATION.
- REMOVE AND REPLACE EXISTING PRV, IF PRESENT.
- REMOVE, DISPOSE AND REPLACE EX. SIDEWALK TO NEAREST EXPANSION JOINT.
- REMOVE, DISPOSE AND REPLACE EX. ROLLED CURB TO NEAREST EXPANSION JOINT.
- LANDSCAPE RESTORATION.

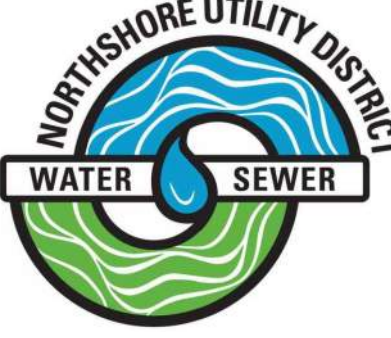


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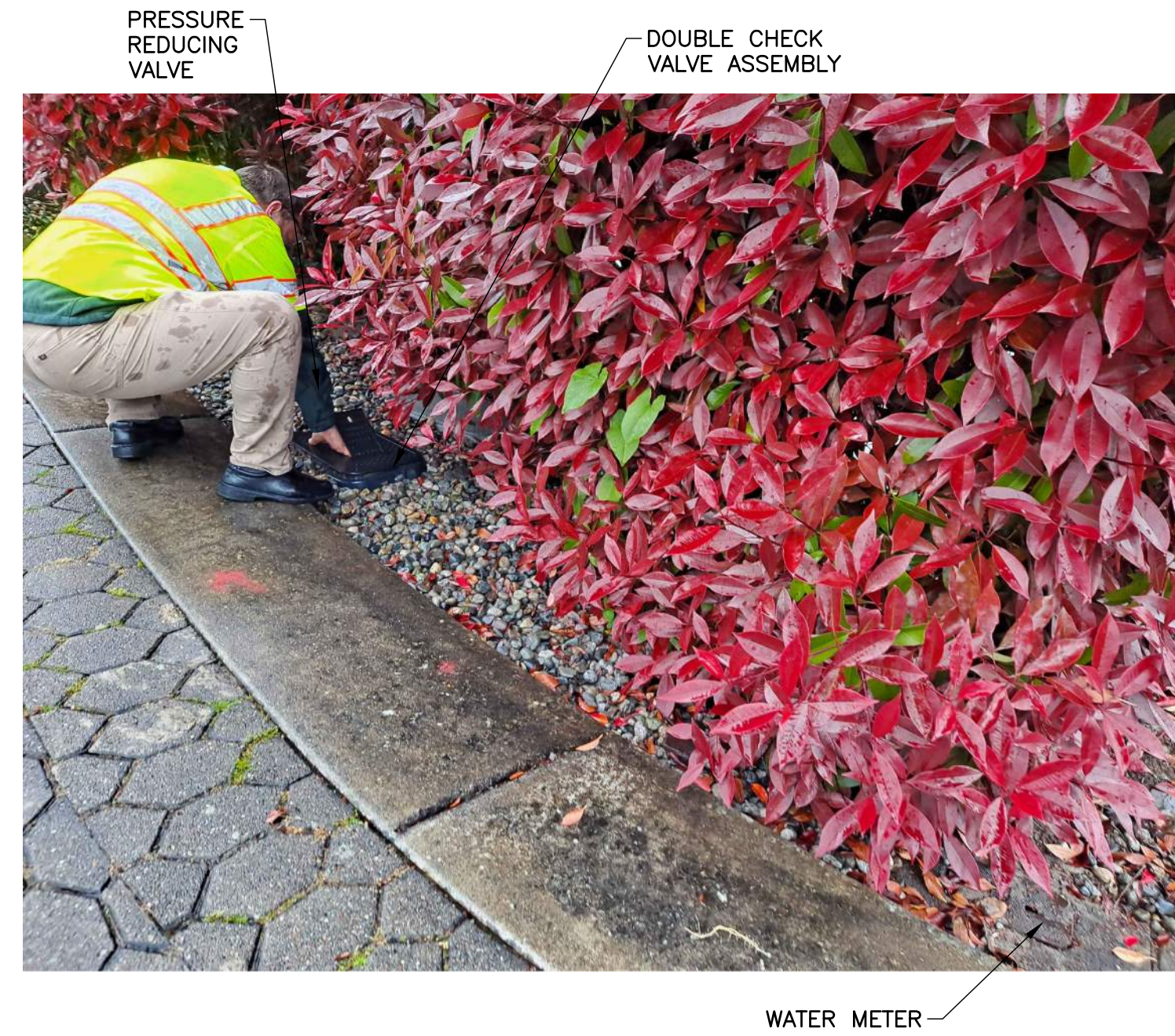
SCHEDULE A PHASE 1

BASE MAP L7
C1817
SHEET
4 OF 24

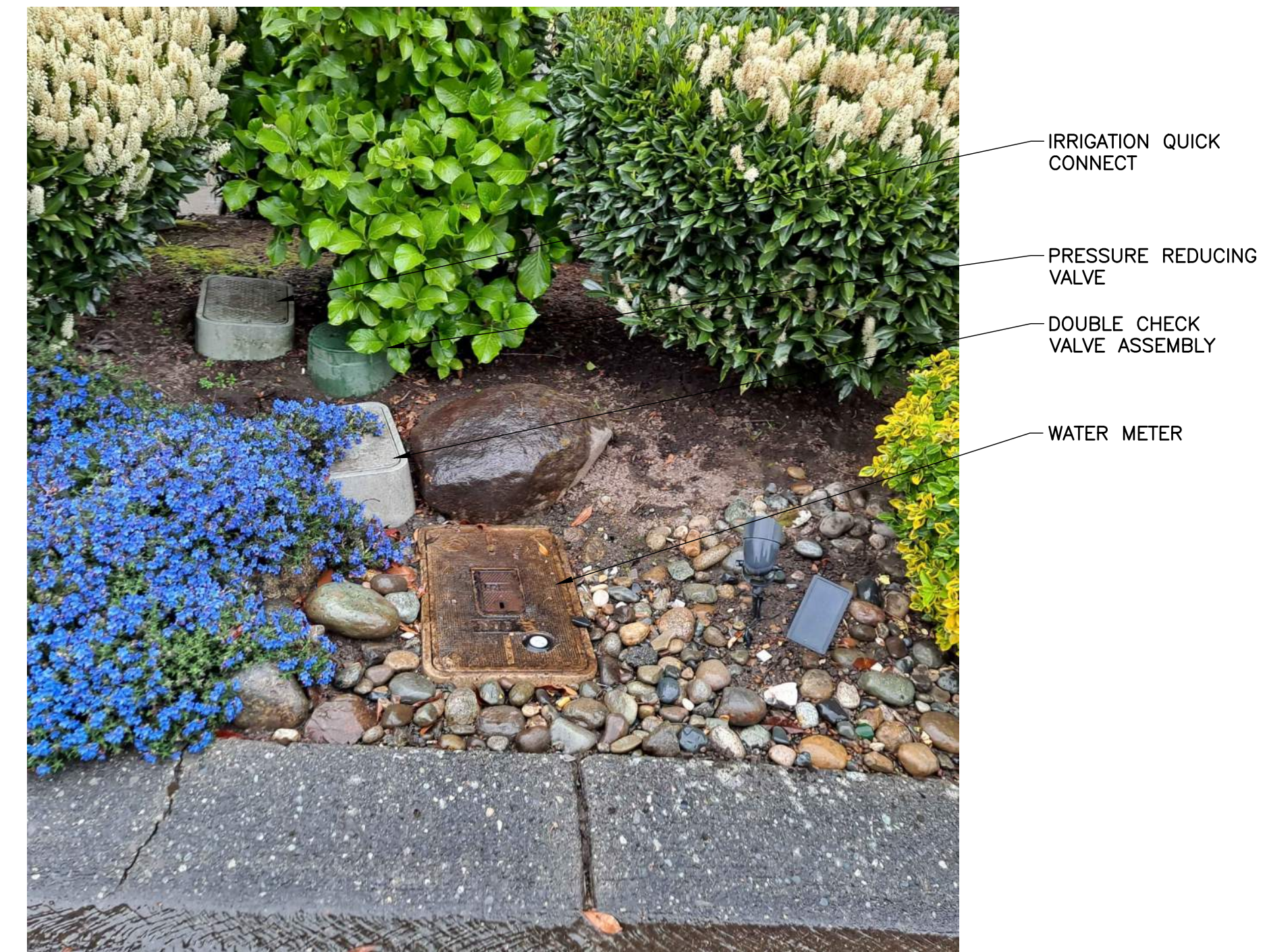
NW 1/4, SEC 31, T26N, R5E



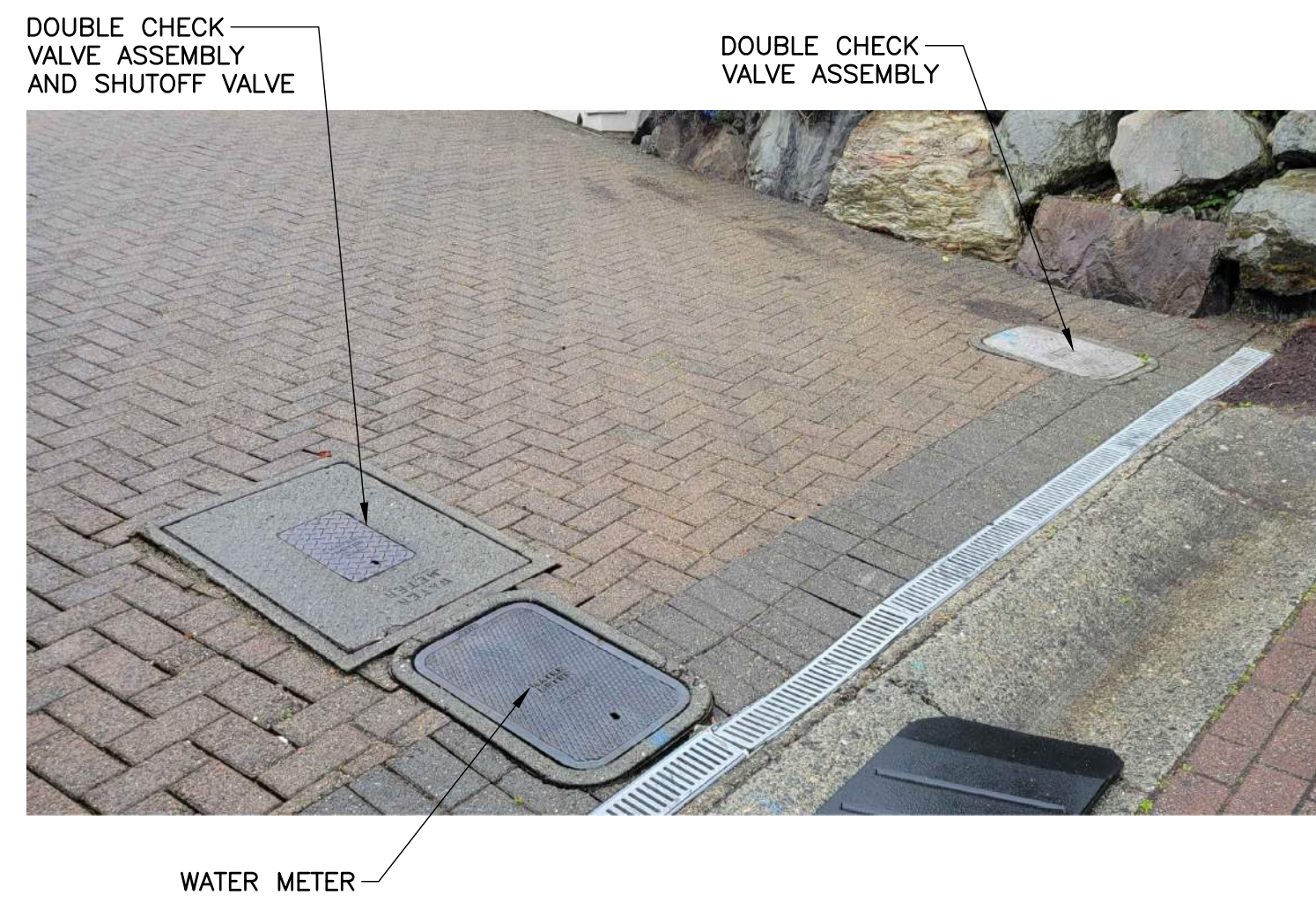
8483 WATER SERVICE



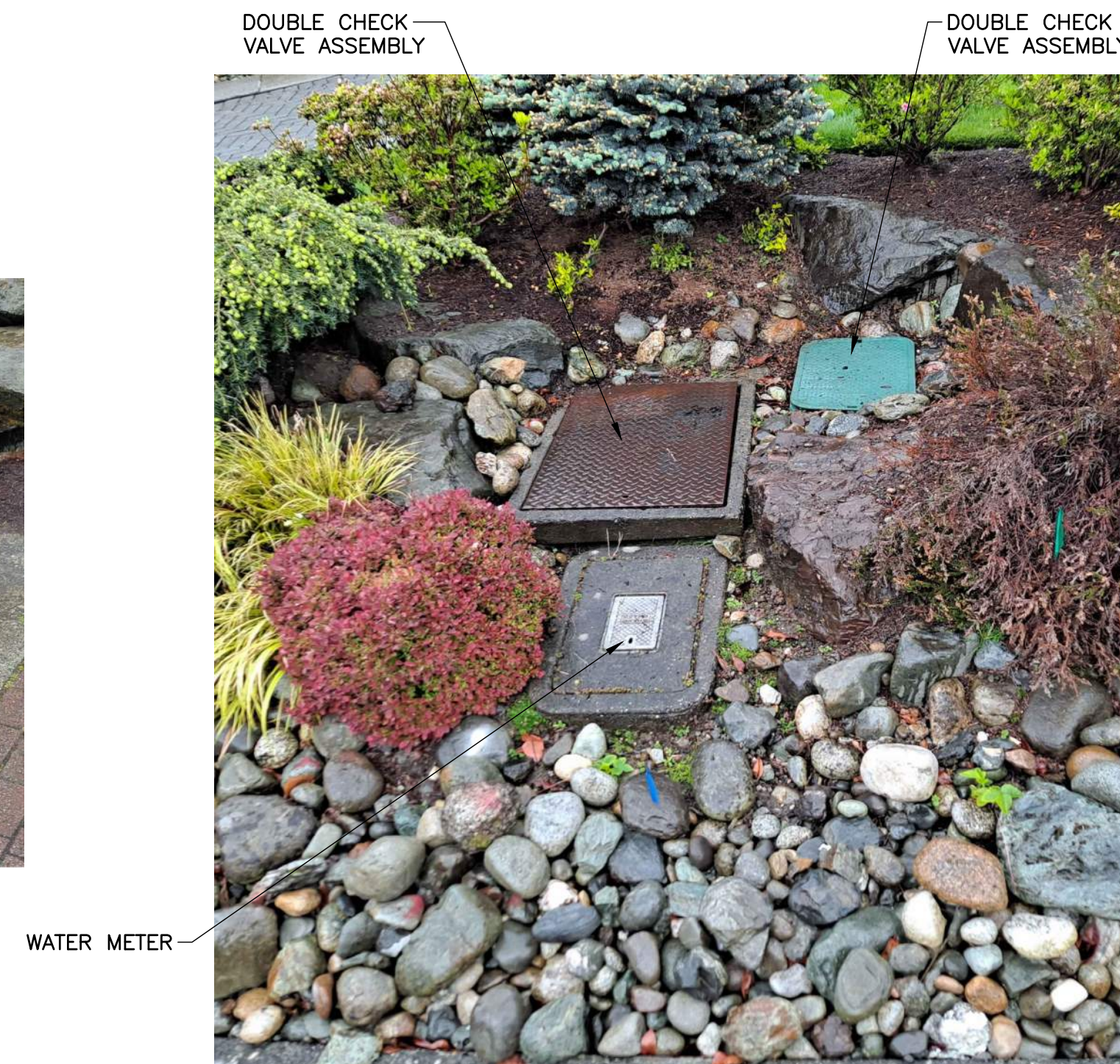
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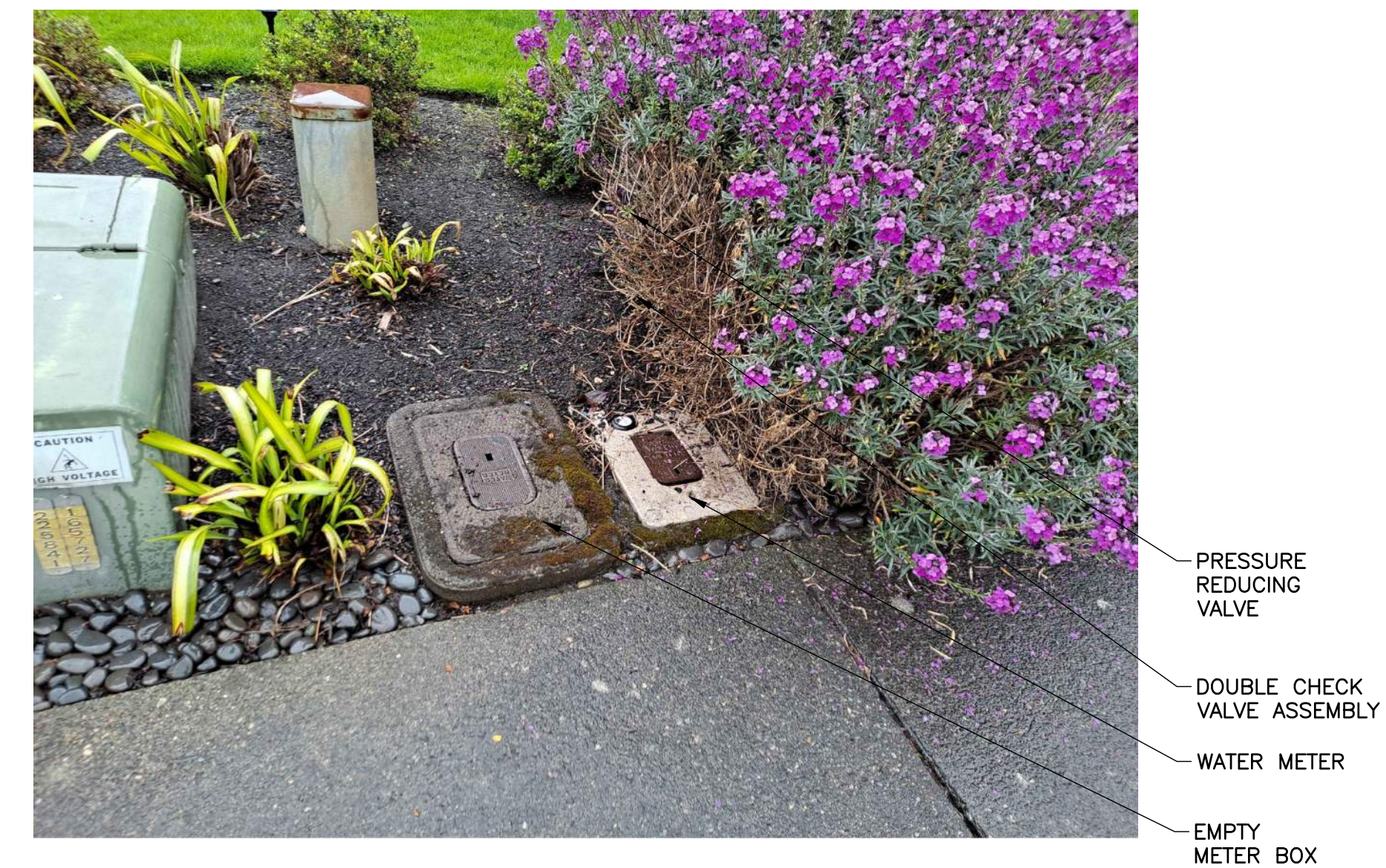
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8487 WATER SERVICE



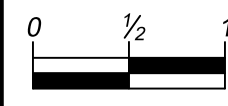
8493 WATER SERVICE



8486 WATER SERVICE

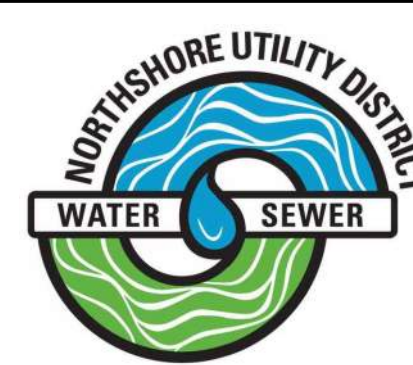
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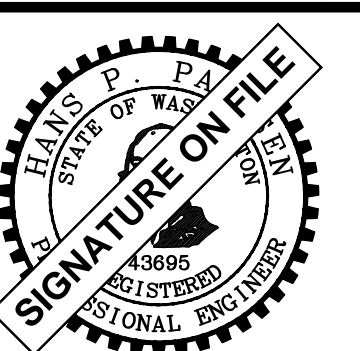
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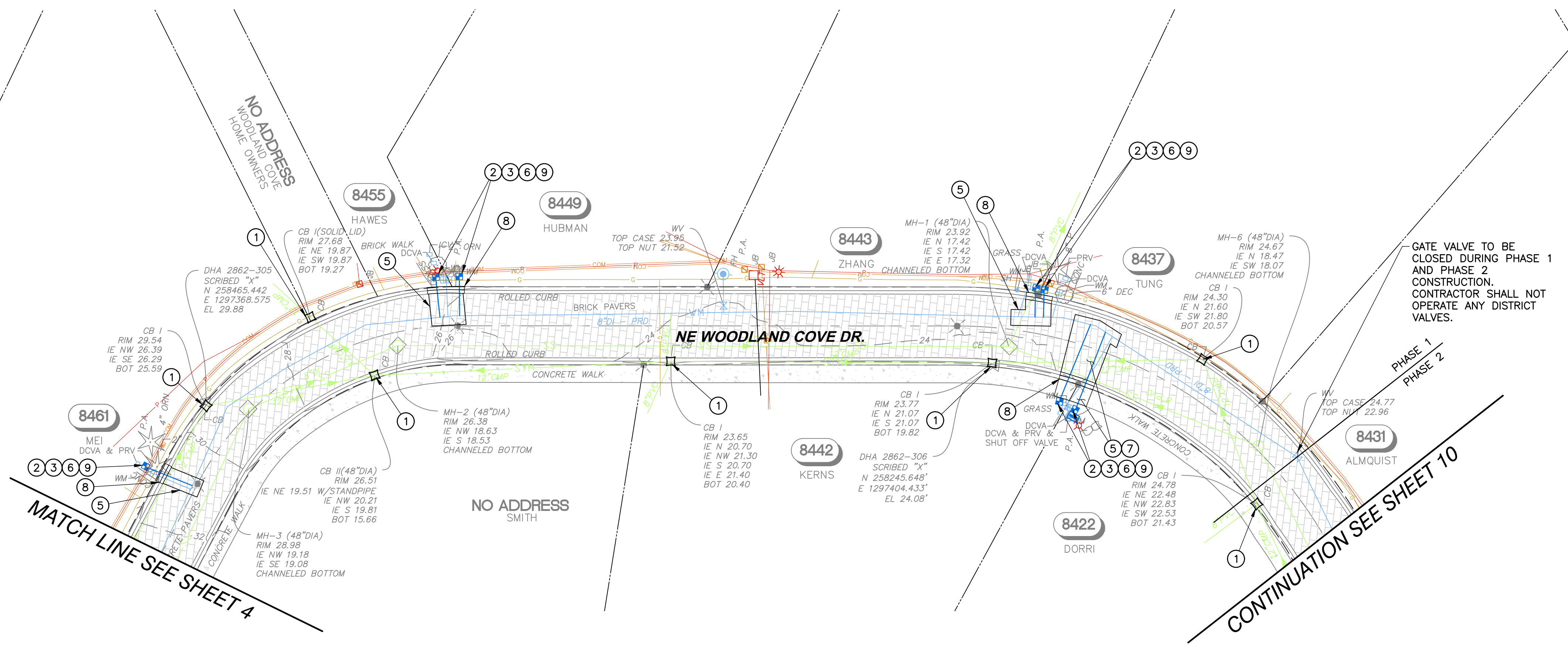
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CONTRACT 2023-02
 WOODLAND COVE WATER SERVICE REPLACEMENT
SCHEDULE A PHASE 1



BASE MAP L7
 C1817
 SHEET
 5 OF 24

NW 1/4, SEC 31, T26N, R5E

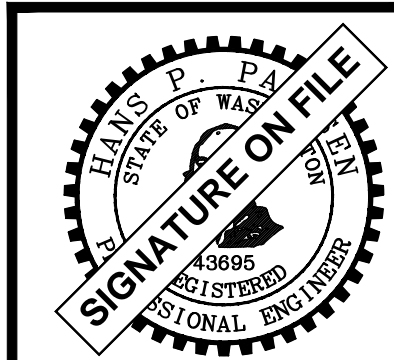
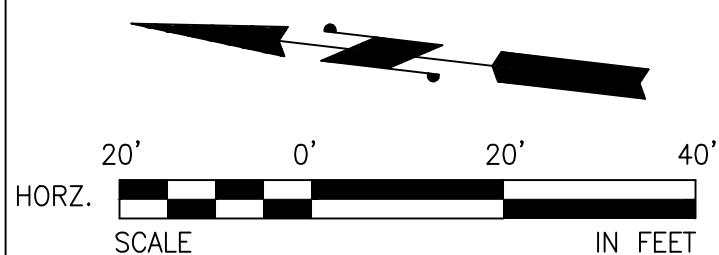


GENERAL NOTES

- SEE SHEET 2 FOR GENERAL NOTES, LEGEND, AND SURVEY CONTROL INFORMATION.
- PRIOR TO EXCAVATION, INSTALL TESC FACILITIES PER SHEET 2.
- COORDINATE AND CONFIRM FITTING REQUIREMENTS IN THE FIELD WITH THE DISTRICT PRIOR TO CONSTRUCTION.
- ALL BURIED WATER MAIN SHALL BE RESTRAINED JOINT (R.J.) PIPE WITH FIELD LOK GASKETS (OR APPROVED EQUAL) AND POLYETHYLENE ENCASUREMENT PER NUD STANDARD SPECIFICATIONS.
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- FINAL METER BOX LOCATION SHALL BE COORDINATED WITH AND APPROVED BY THE NUD INSPECTOR.
- REFER TO SHEET 3 FOR CONSTRUCTION SEQUENCING

CONSTRUCTION NOTES

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- REMOVE AND SAVE EXISTING ROADWAY AND DRIVEWAY BRICK PAVERS. REPLACE ONCE BACKFILL IS COMPLETE. SEE SPECIFICATIONS AND DETAIL ON SHEET 24 FOR MORE INFORMATION.
- REMOVE AND REPLACE OR INSTALL NEW PRV BEHIND METER.
- REMOVE, DISPOSE AND REPLACE EX. SIDEWALK TO NEAREST EXPANSION JOINT.
- REMOVE, DISPOSE AND REPLACE EX. ROLLED CURB TO NEAREST EXPANSION JOINT.
- LANDSCAPE RESTORATION.



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APPROVAL	HPP
DATE	MAR 2023



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 WOODLAND COVE WATER SERVICE REPLACEMENT
SCHEDULE A PHASE 1

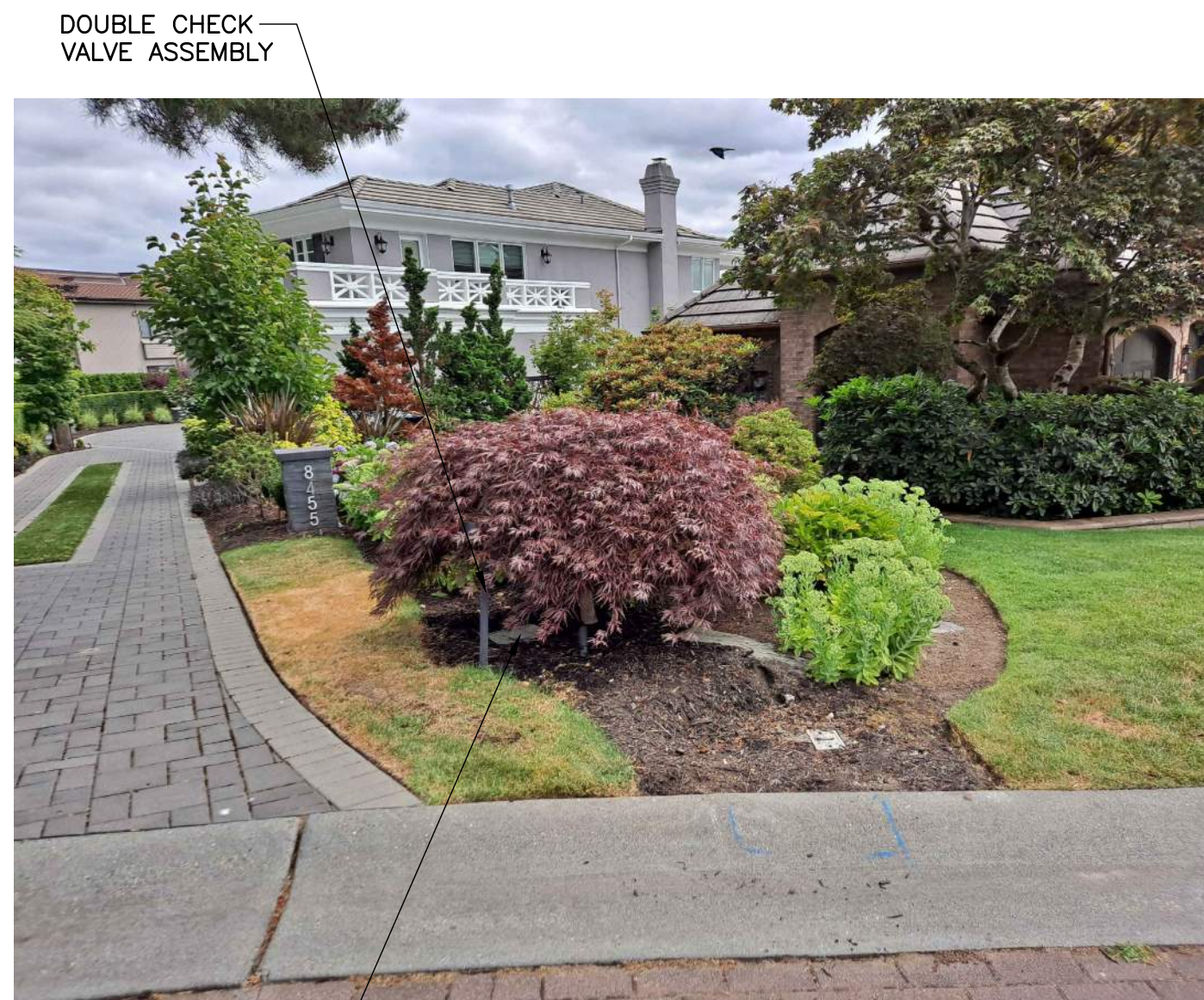
BASE MAP L7
C1817
SHEET
6 OF 24

NW 1/4, SEC 31, T26N, R5E



DOUBLE CHECK VALVE ASSEMBLY AND PRESSURE REDUCING VALVE
WATER METER

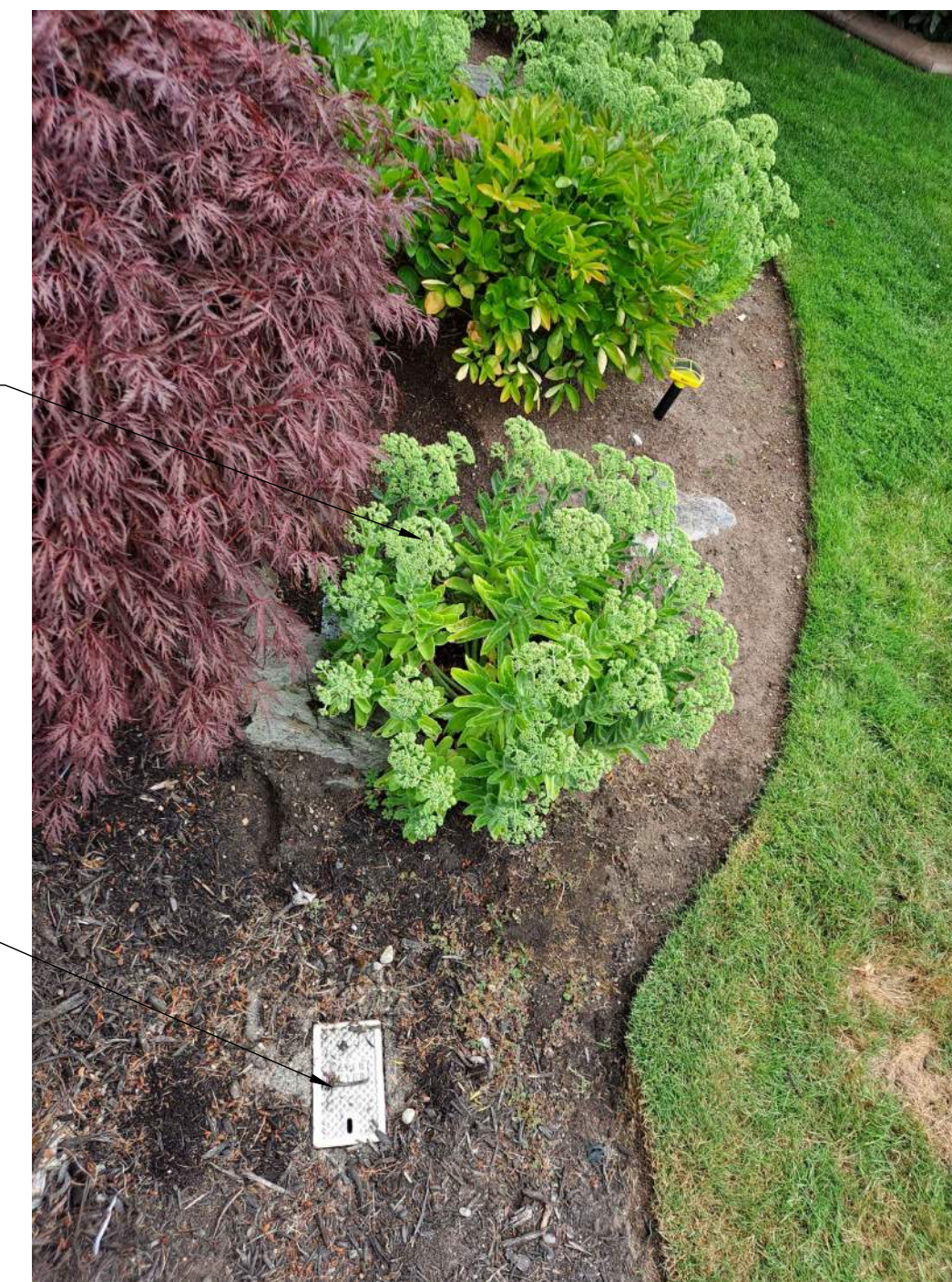
8461 WATER SERVICE



DOUBLE CHECK VALVE ASSEMBLY

WATER METER

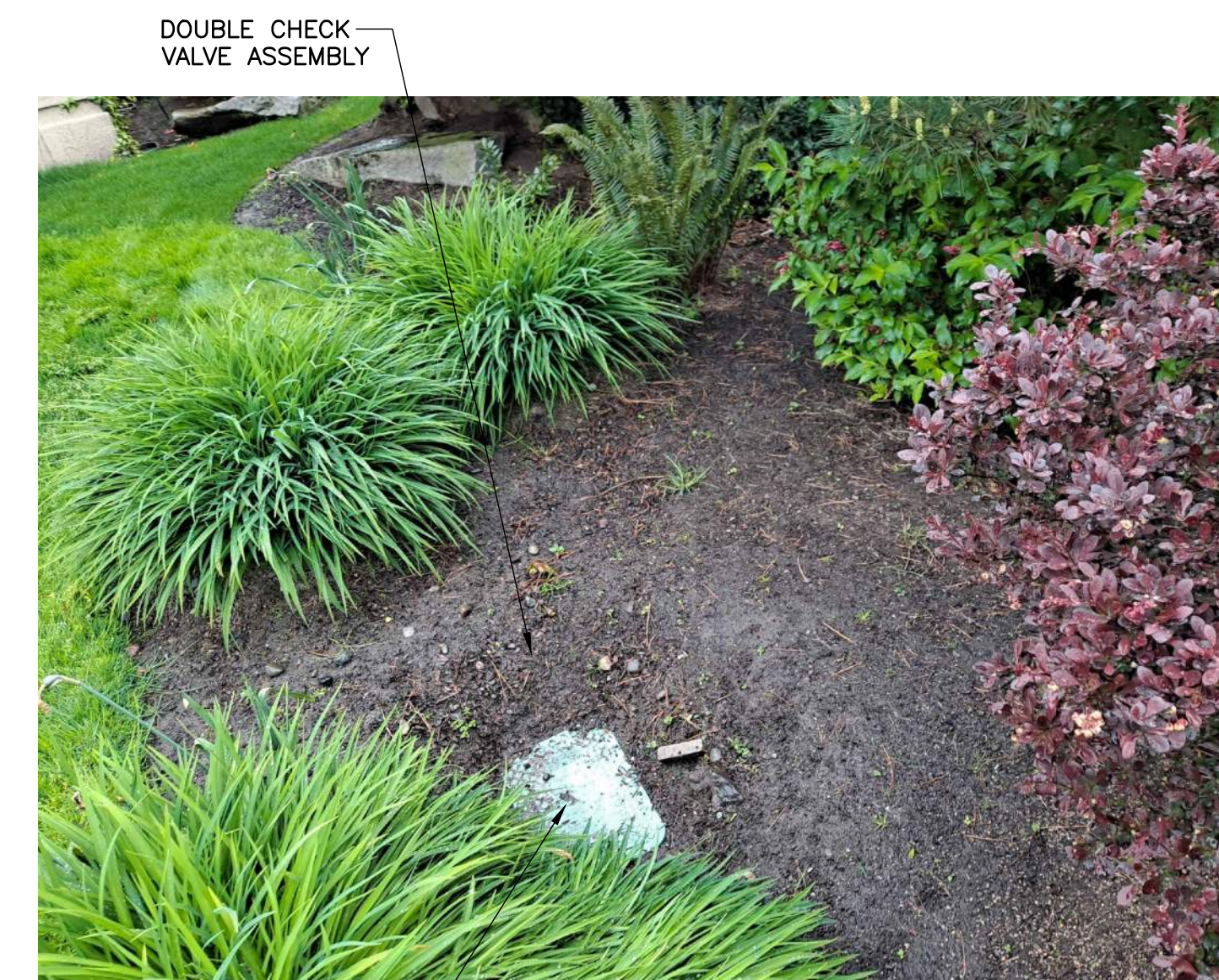
8455 WATER SERVICE



UNKNOWN BOX

WATER METER

8449 WATER SERVICE



DOUBLE CHECK VALVE ASSEMBLY

WATER METER

8443 WATER SERVICE



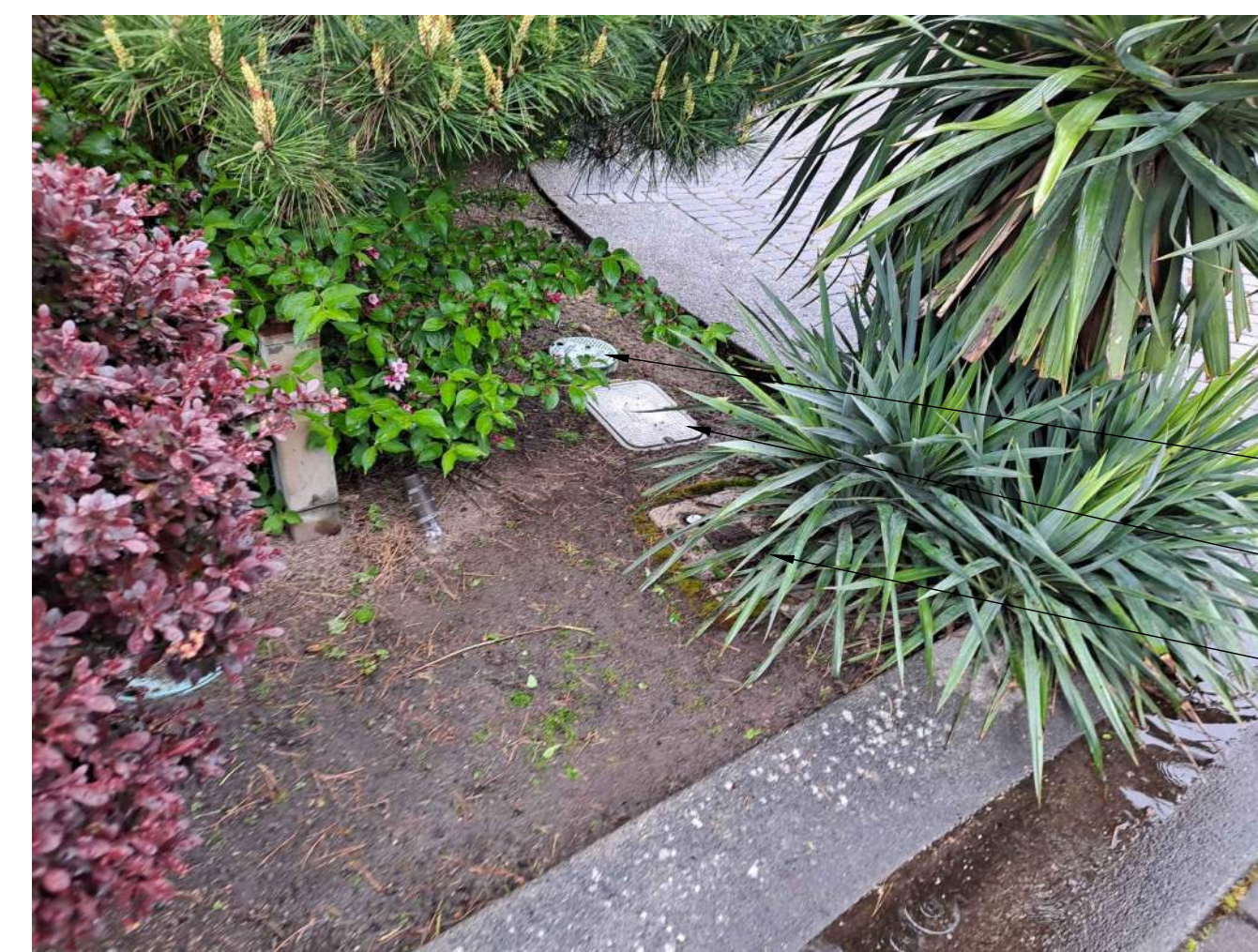
WATER METER
DOUBLE CHECK VALVE ASSEMBLY

8442 WATER SERVICE



WATER METER
DOUBLE CHECK VALVE ASSEMBLY, PRESSURE REDUCING VALVE, AND SHUT OFF

8422 WATER SERVICE



PRESSURE REDUCING VALVE
DOUBLE CHECK VALVE ASSEMBLY
WATER METER

8437 WATER SERVICE

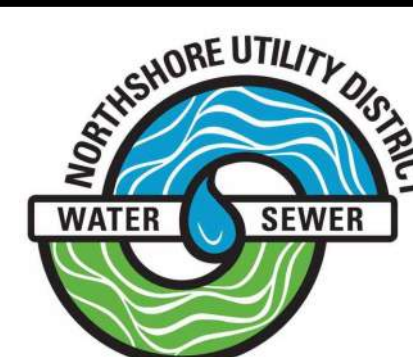
NO	BY	APPD	REVISION	DATE

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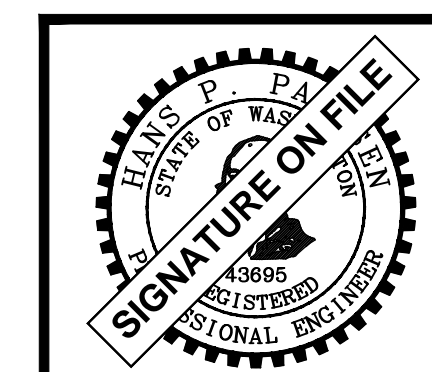
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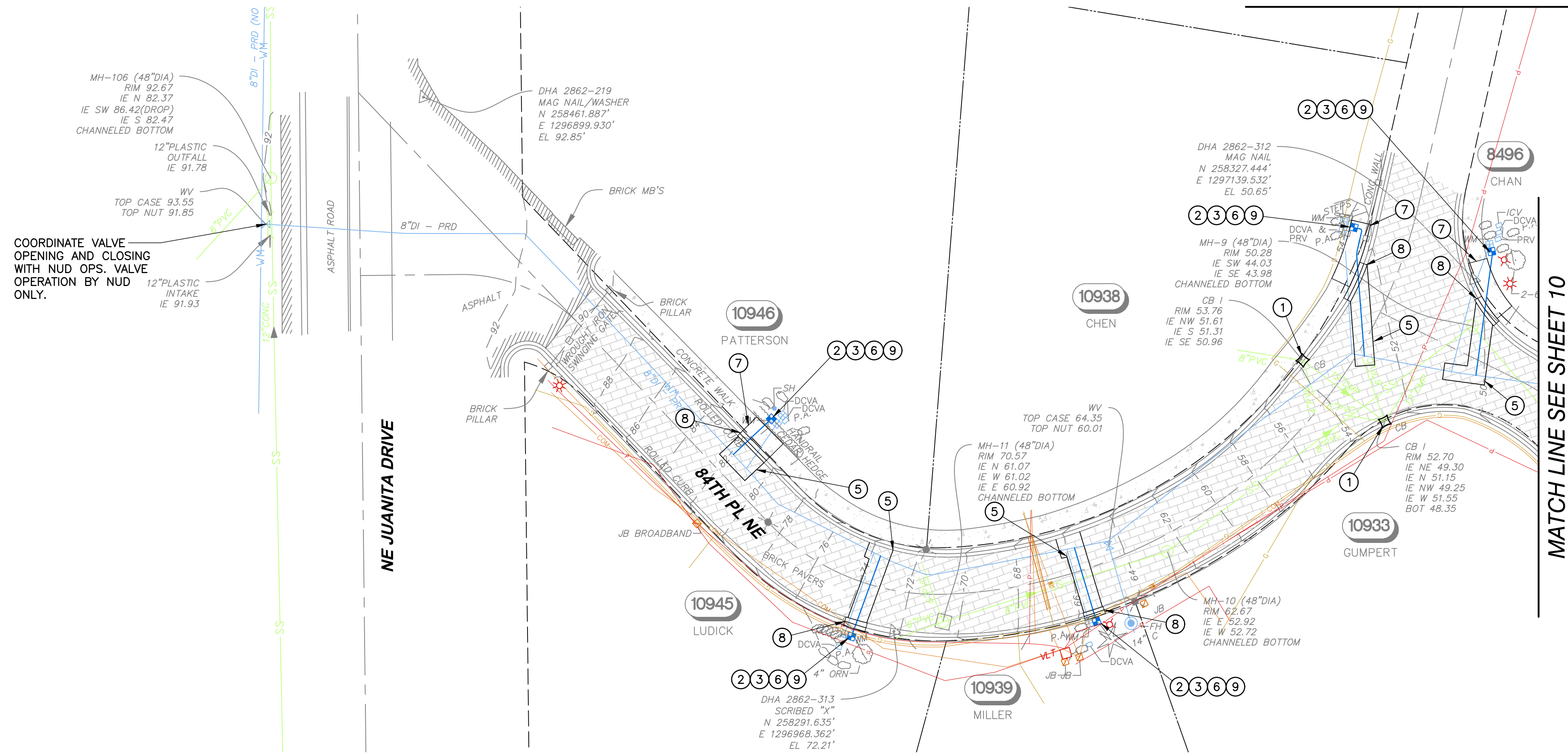
CONTRACT 2023-02
WOODLAND COVE WATER SERVICE REPLACEMENT
SCHEDULE A PHASE 1



BASE MAP L7
C1817
SHEET
7 OF 24

NW 1/4, SEC 31, T26N, R5E

CONTINUATION LINE SEE SHEET 4



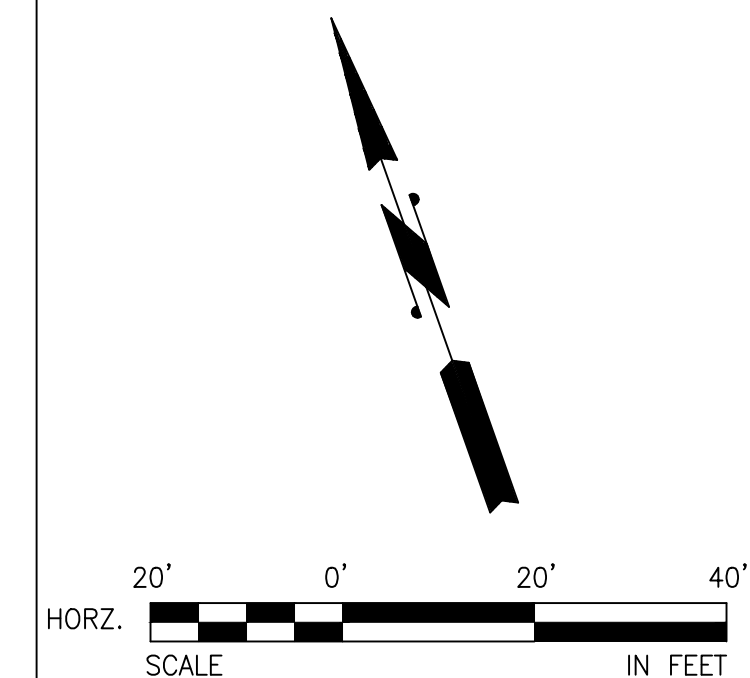
COORDINATE VALVE OPENING AND CLOSING WITH NUD OPS. VALVE OPERATION BY NUD ONLY.

GENERAL NOTES

1. SEE SHEET 2 FOR GENERAL NOTES, LEGEND, AND SURVEY CONTROL INFORMATION.
2. PRIOR TO EXCAVATION, INSTALL TESC FACILITIES PER SHEET 2.
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9. FINAL METER BOX LOCATION SHALL BE COORDINATED WITH AND APPROVED BY THE NUD INSPECTOR.
10. SEE SHEET 3 FOR CONSTRUCTION SEQUENCING

CONSTRUCTION NOTES

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- ⑥ REMOVE AND REPLACE OR INSTALL NEW PRV BEHIND METER.
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- ⑧ REMOVE, DISPOSE AND REPLACE EX. ROLLED CURB TO NEAREST EXPANSION JOINT.
- ⑨ LANDSCAPE RESTORATION.



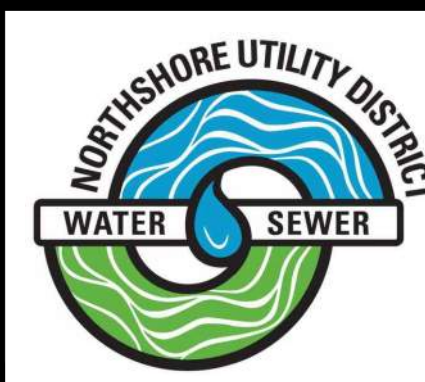
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CONTRACT 2023-02
 WOODLAND COVE WATER SERVICE REPLACEMENT
SCHEDULE A PHASE 2

BASE MAP L7
C1817
SHEET
8 OF 24

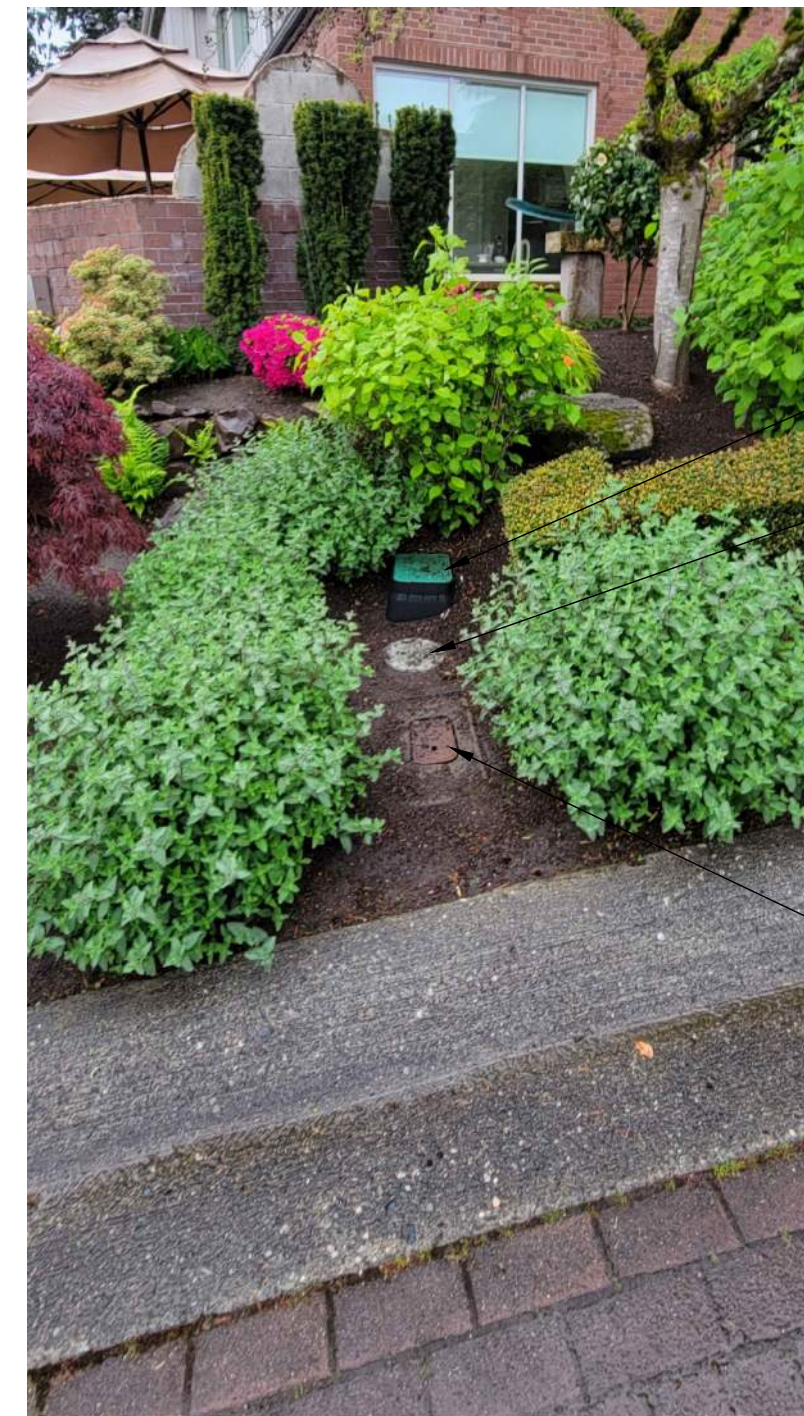
NW 1/4, SEC 31, T26N, R5E



DOUBLE CHECK VALVE ASSEMBLY

WATER METER

10946 WATER SERVICE

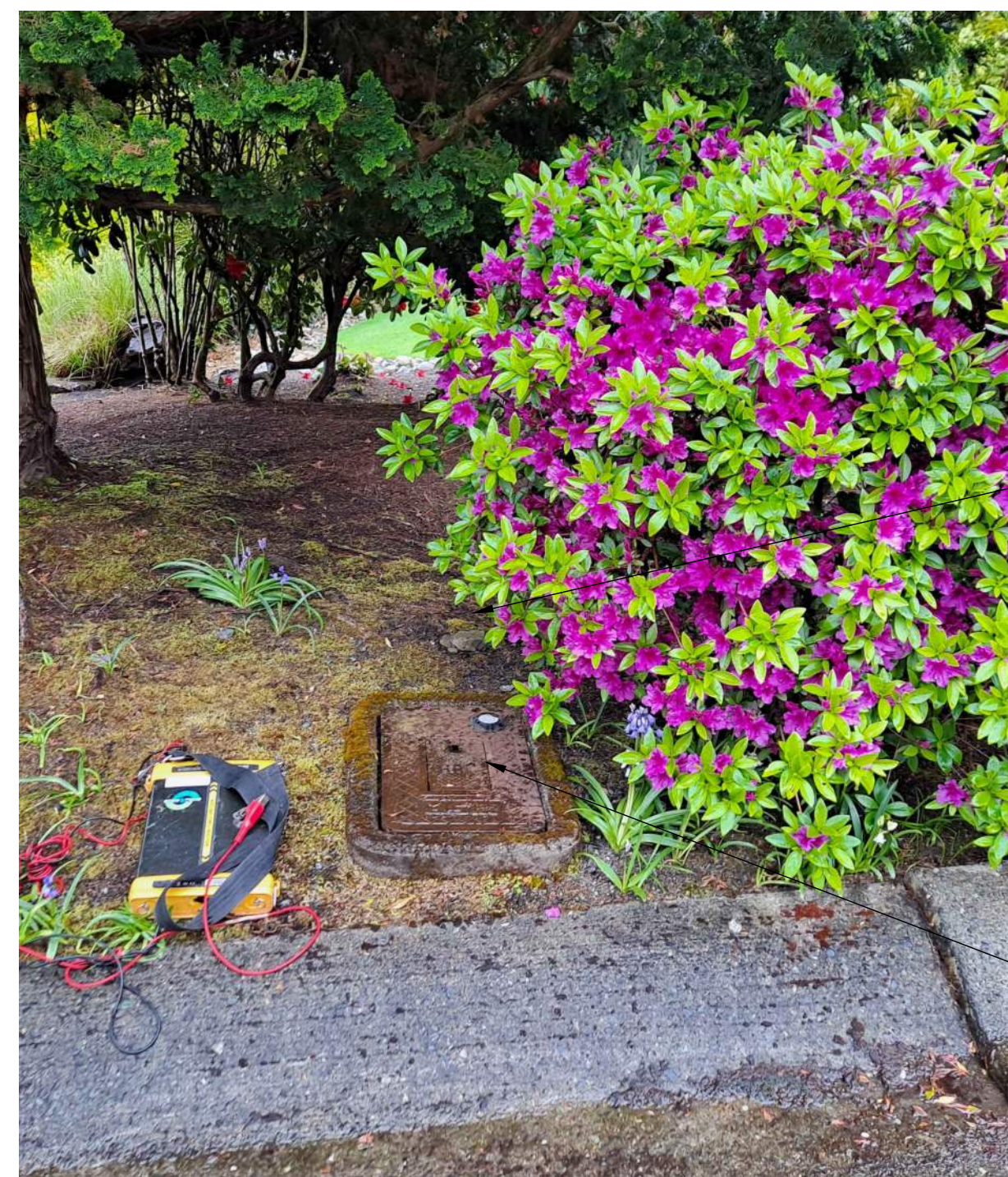


DOUBLE CHECK VALVE ASSEMBLY

PRESSURE REDUCING VALVE

WATER METER

10945 WATER SERVICE



DOUBLE CHECK VALVE ASSEMBLY

WATER METER

WATER METER

10939 WATER SERVICE

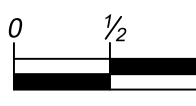


DOUBLE CHECK VALVE ASSEMBLY

PRESSURE REDUCING VALVE

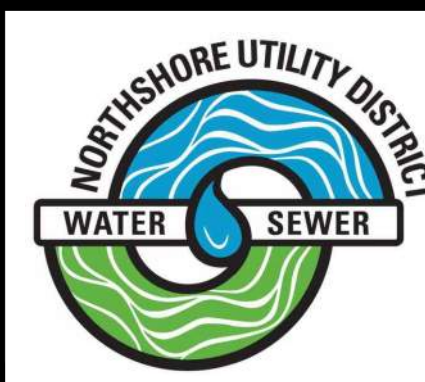
8496 WATER SERVICE

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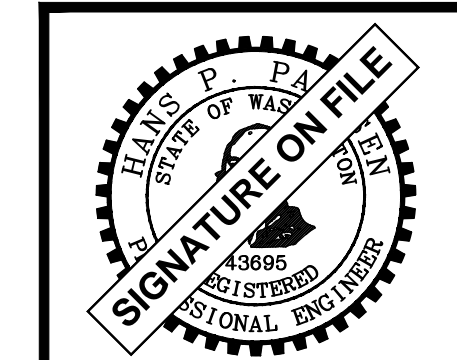
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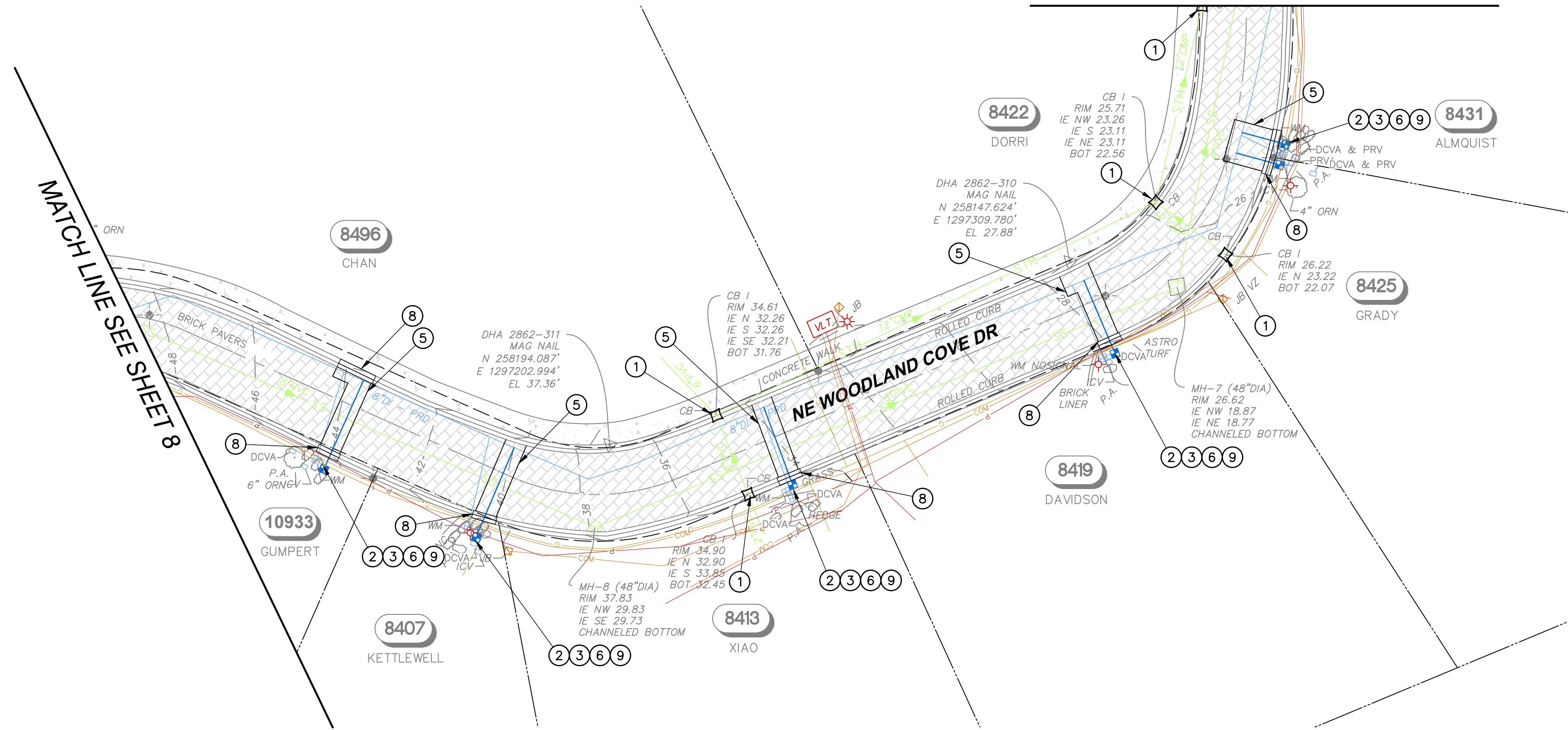
CONTRACT 2023-02
 WOODLAND COVE WATER SERVICE REPLACEMENT
SCHEDULE A PHASE 2



BASE MAP L7
C1817
SHEET
9 OF 24

NW 1/4, SEC 31, T26N, R5E

CONTINUATION SEE SHEET 6

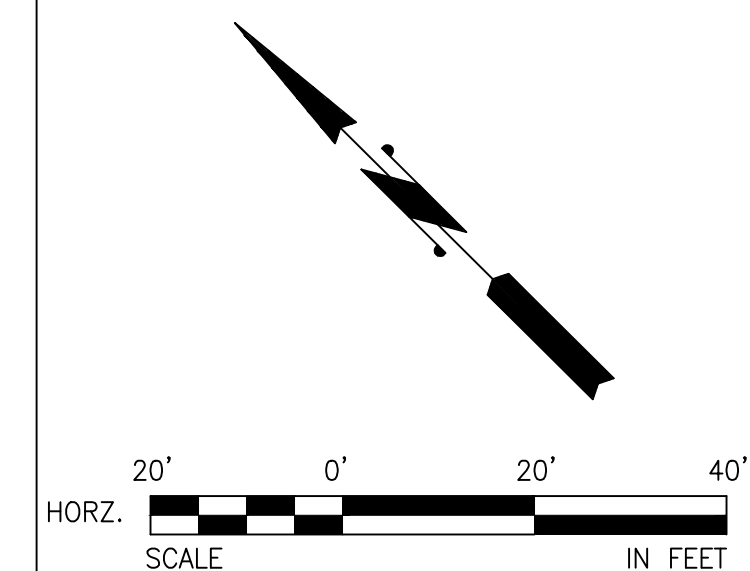


GENERAL NOTES

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- LANDSCAPE RESTORATION.



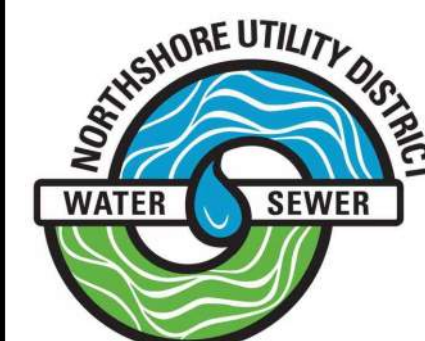
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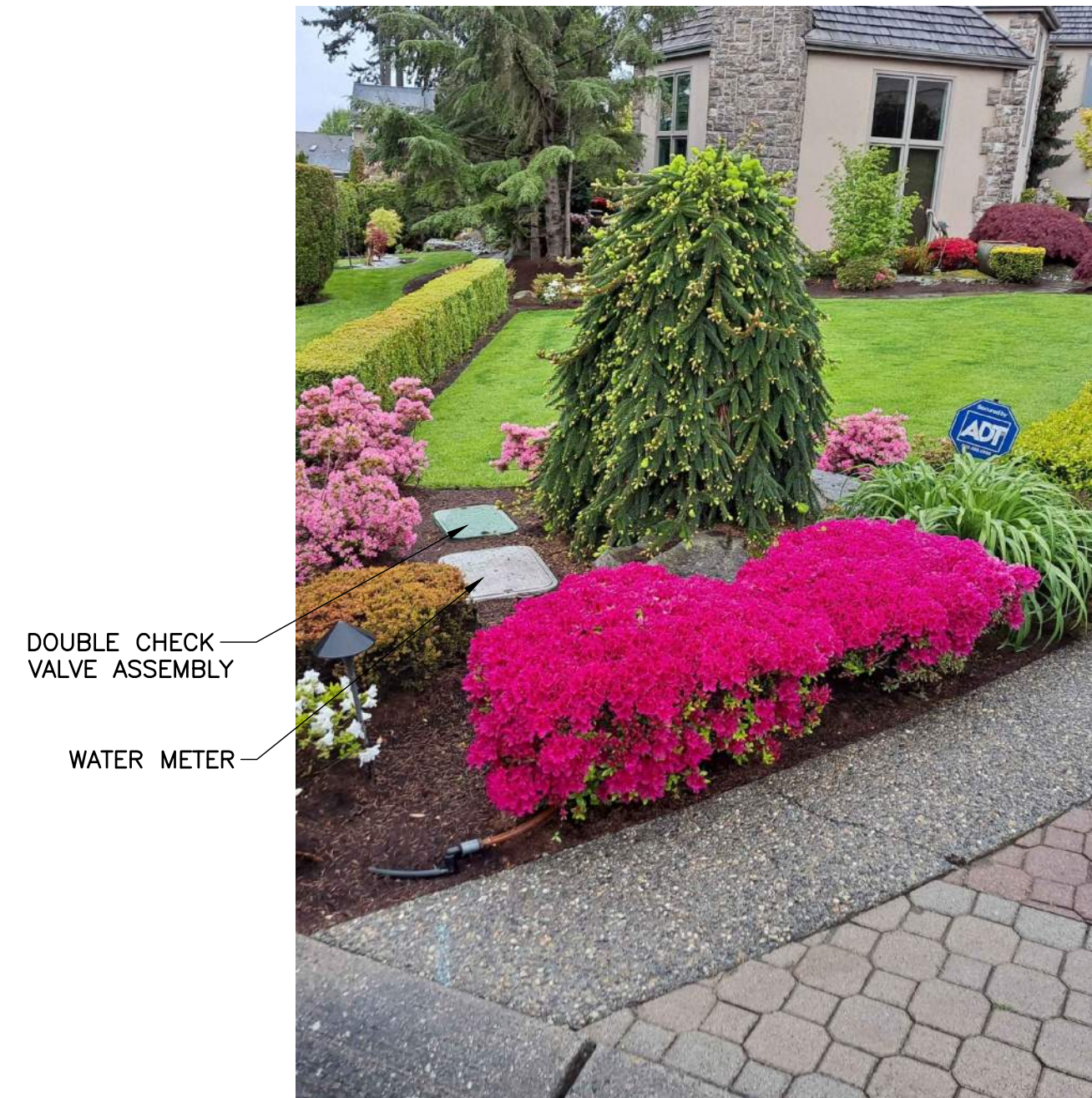
SCHEDULE A PHASE 2

BASE MAP L7
C1817
SHEET
10 OF 24

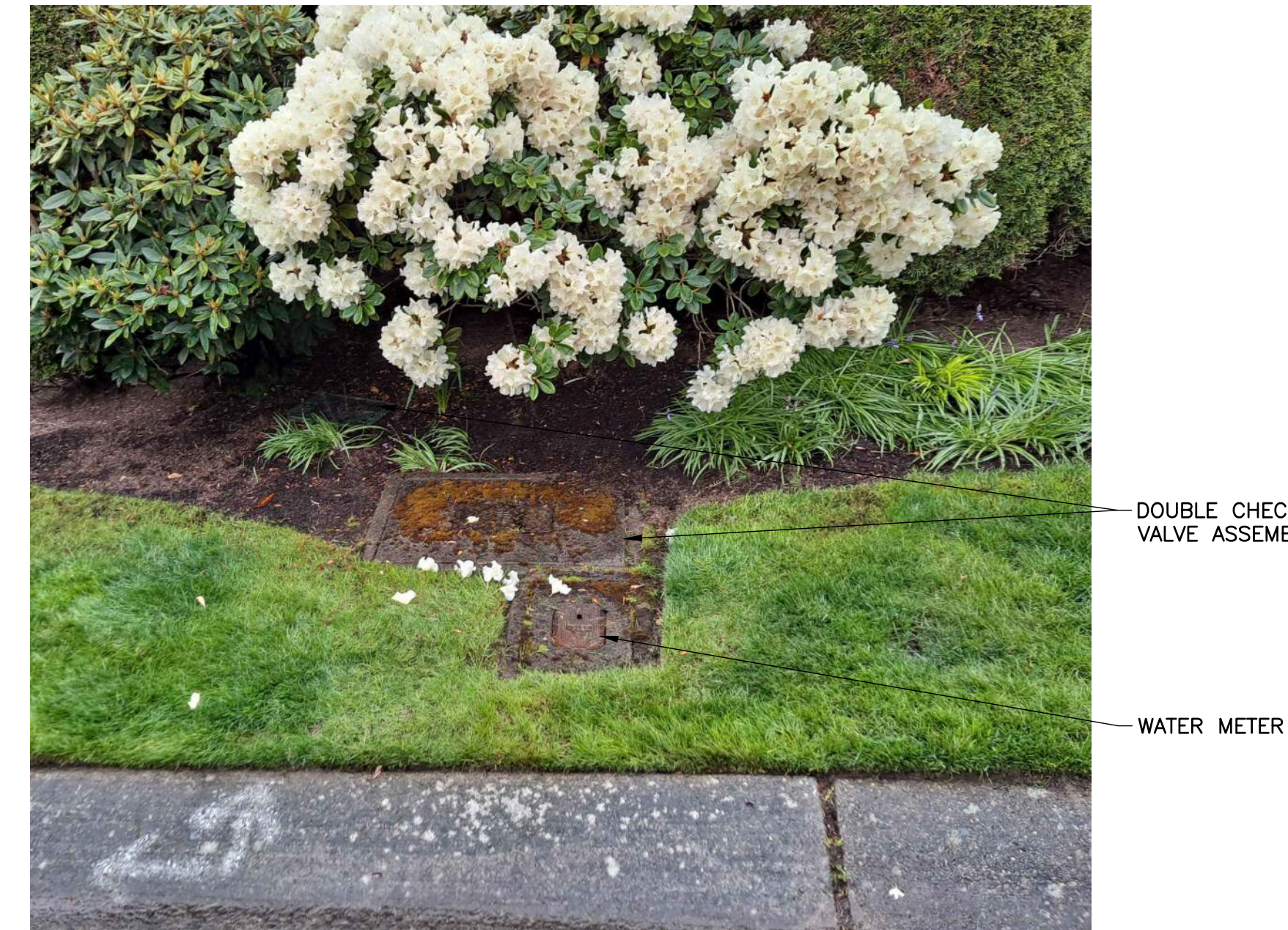
NW 1/4, SEC 31, T26N, R5E



10933 WATER SERVICE



8407 WATER SERVICE



8413 WATER SERVICE



8419 WATER SERVICE



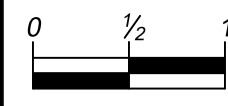
8425 WATER SERVICE



8431 WATER SERVICE

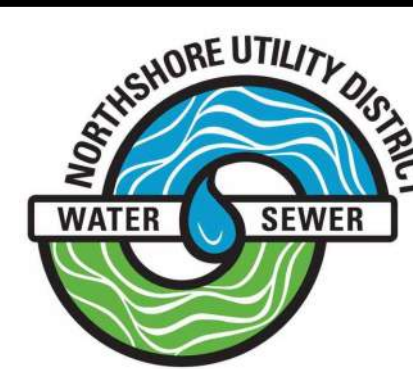
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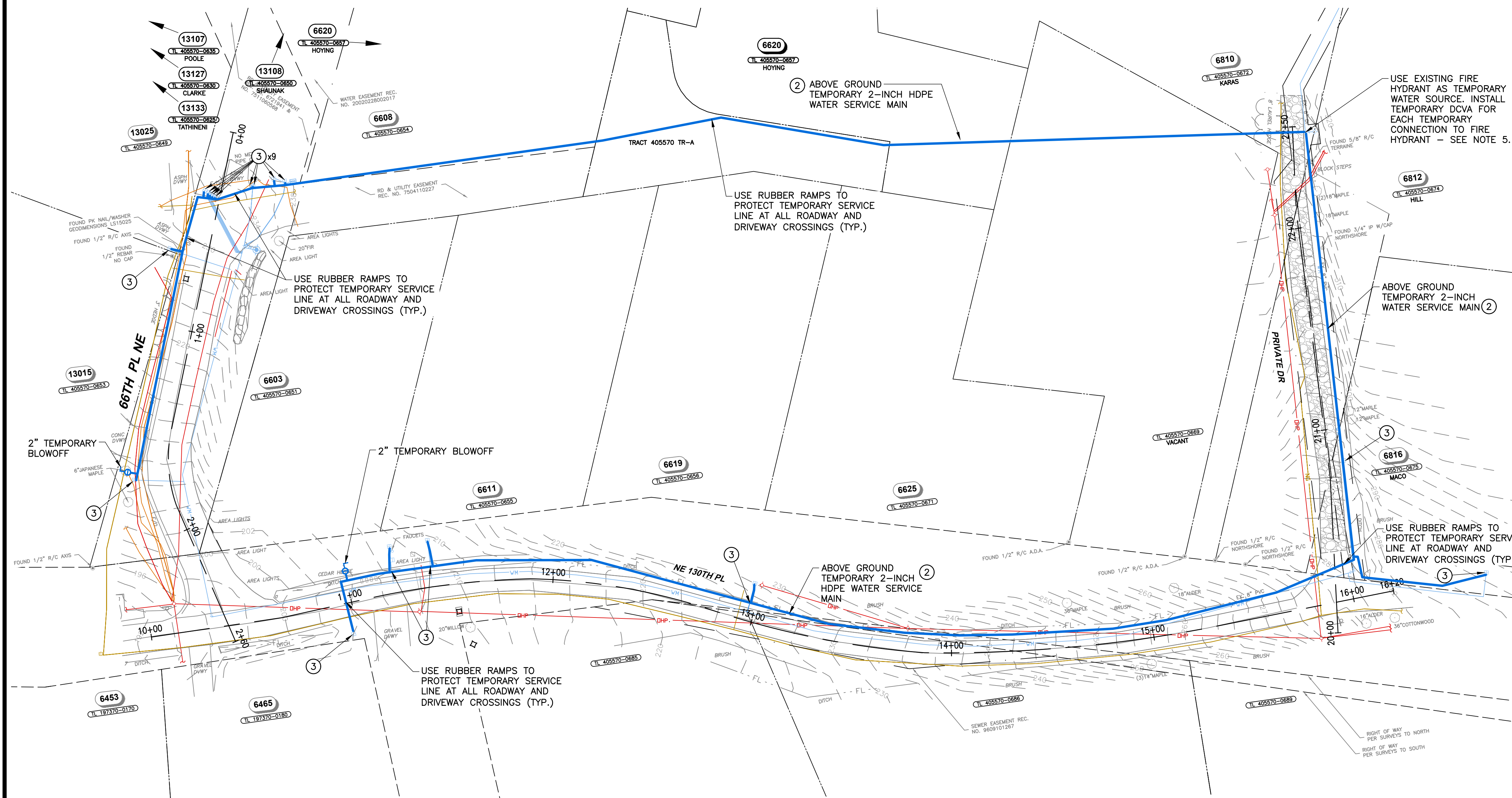
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CONTRACT 2023-02
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SCHEDULE A PHASE 2



BASE MAP L7
 C1817
 SHEET
 11 OF 24

NW 1/4, SEC 26, T26N, R4E & NW 1/4, SEC 25, T26N, R4E



GENERAL NOTES

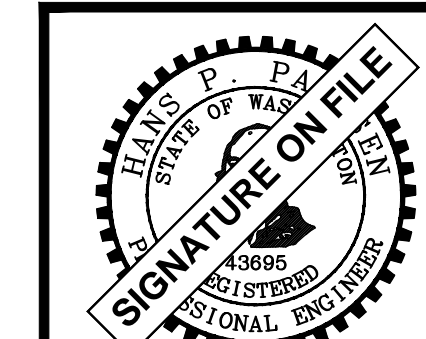
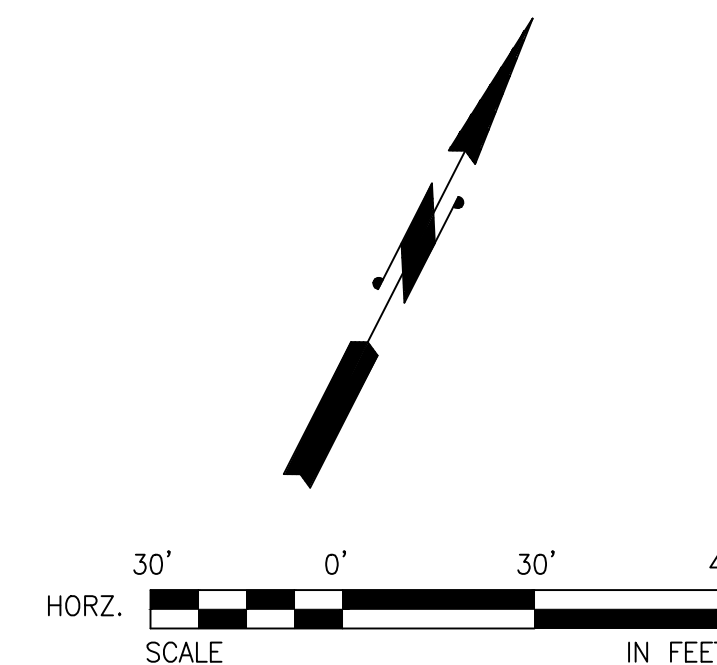
- SEE SHEET 2 FOR GENERAL NOTES, LEGEND, AND SURVEY CONTROL INFORMATION.
- INSTALL TESC FACILITIES PRIOR TO CONSTRUCTION. SEE TESC DETAILS ON SHEET 2.
- CONTRACTOR TO SUBMIT TEMPORARY SERVICE PLAN FOR DISTRICT REVIEW AND APPROVAL PRIOR TO STARTING WORK.
- CONTRACTOR SHALL INSTALL TEMPORARY SERVICE CONNECTIONS FOR THE PROPERTIES AT 6816 AND 6465 NE 130TH PLACE, 6625, 6619, 6611, 6603, 6608, AND 6620 NE 130TH LANE, AND 13015, 13025, 13107, 13127, 13133, AND 13108 66TH PLACE NE
- DOUBLE CHECK VALVE ASSEMBLY SHALL BE LISTED ON THE MOST CURRENT COPY OF "ACCEPTED CROSS CONNECTION CONTROL" PUBLISHED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA. THE DCVA MUST BE TESTED AND CERTIFIED PRIOR TO BEING PUT IN SERVICE.

SUGGESTED CONSTRUCTION SEQUENCE

- CONTRACTOR TO POTHOLE AND LOCATE (17) EXISTING SERVICE LINES AT THE APPROXIMATE LOCATIONS SHOWN ON THE PLANS. ACTUAL LOCATIONS OF THE EXISTING SERVICE LINES MAY VARY FROM WHAT IS SHOWN ON THE PLANS. CONTRACTOR SHALL INSTALL NEW METER BOXES AND SETTERS DIRECTLY ADJACENT TO EXISTING SERVICE LINES AT THE EDGE OF THE EXISTING RIGHT-OF-WAY OR EXISTING EASEMENT FOR EACH INDIVIDUAL PROPERTY. CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING WATER SERVICES THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL INSTALL 2-INCH HDPE TEMPORARY WATER SERVICE MAINS PER THE PLAN, WITHIN RIGHT-OF-WAY OR EASEMENT, AND CONNECT TO THE METER BOXES INSTALLED IN CONSTRUCTION SEQUENCING NOTE 1. CONTRACTOR SHALL TEST AND DISINFECT THE TEMPORARY WATER SERVICE MAIN, AND WITH NUD APPROVAL, SHALL MAKE CONNECTION TO THE EXISTING SYSTEM AT THE FIRE HYDRANT ON THE PRIVATE DRIVE WITH DCVA CONNECTIONS.
- AFTER COMPLETED AND APPROVED TEMPORARY WATER MAIN TESTING, CONTRACTOR SHALL JUMPER EXISTING WATER SERVICES TO THE TEMPORARY WATER MAIN AT EACH TEMPORARY SERVICE CONNECTION, CONTRACTOR SHALL INSTALL A CURB STOP FOR SHUTOFF.
- CONTRACTOR SHALL INSTALL NEW 8-INCH DI WATER MAIN PER THE SCHEDULE B PLAN SHEETS. AFTERWARDS, CONTRACTOR SHALL INSTALL PERMANENT SERVICE LINES FROM THE NEWLY CONSTRUCTED 8-INCH TO THE NEW METER BOXES. FINAL CONNECTION TO EXISTING PRIVATE SERVICE LINES SHALL NOT OCCUR UNTIL PURITY AND PRESSURE TESTS HAVE OCCURRED WITH A PASSING RESULT.
- ONCE THE NEW 8-INCH WATER MAIN HAS BEEN DISINFECTED AND TESTED THROUGH COORDINATION AND WITH APPROVAL OF NUD, DISCONNECT TEMPORARY WATER SERVICE AND SWAP TO PERMANENT SERVICE.
- CONTRACTOR SHALL REMOVE 2-INCH TEMPORARY WATER SERVICE, REMOVE THE EXISTING METER BOXES AND SETTERS, AND ABANDON-IN-PLACE THE EXISTING WATER SERVICE LINES.

METER NO.	NUD ACCOUNT NO.	METER SIZE, IN.	SERVICE ADDRESS	STATION
1	43104760	1	6620 NE 130TH LN (FIRE)	0+18.3, 24.1' LT.
2	43118666	3/4	6620 NE 130TH LN	0+18.2, 29.6' LT.
3	43104731	1	6608 NE 130TH LN	0+23.4, 14.9' LT.
4	43104732	1	13108 66TH PL NE	0+23.5, 14.3' LT.
5	43104729	1	13108 66TH PL NE (FIRE)	0+30.7, 7.9' RT.
6	43104730	1	13107 66TH PL NE	0+31.4, 5.8' RT.
7	43118690	3/4	13127 66TH PL NE	0+31.9, 4.6' RT.
8	43118691	3/4	13025 66TH PL NE	0+32.3, 3.4' RT.
9	43118692	3/4	13133 66TH PL NE	0+32.8, 2.1' RT.

METER NO.	NUD ACCOUNT NO.	METER SIZE, IN.	SERVICE ADDRESS	STATION
10	43118693 210871508 43118693 210871508	1 3/4	13019 66TH PL NE	0+62.2, 19.0' RT.
11	43118694	3/4	13015 66TH PL NE	1+72.0, 17.5' RT.
12	43118670	3/4	6465 NE 130TH PL	10+97.6, 15.5' RT.
13	43980343	3/4	6603 NE 130TH LN	11+23.2, 23.0' LT.
14	43118696	3/4	6611 NE 130TH LN	11+41.2, 23' LT.
15	43118697 43118701	3/4 3/4	6619 NE 130TH LN 6625 NE 130TH LN	12+96.5, 18.8' LT.
16	43706183	3/4	6822 NE 130TH PL	20+25.9, 74.3' RT.
17	43118667	3/4	6816 NE 130TH PL	20+83.9, 7.6 RT.



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DRAWN BY	AMJ
CHECKED BY	HPP
APPROVAL	HPP
DATE	MAR 2023

NORTHSHORE UTILITY DISTRICT

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CONTRACT 2023-02
WOODLAND COVE WATER SERVICE REPLACEMENT

TEMPORARY WATER SERVICE PLAN

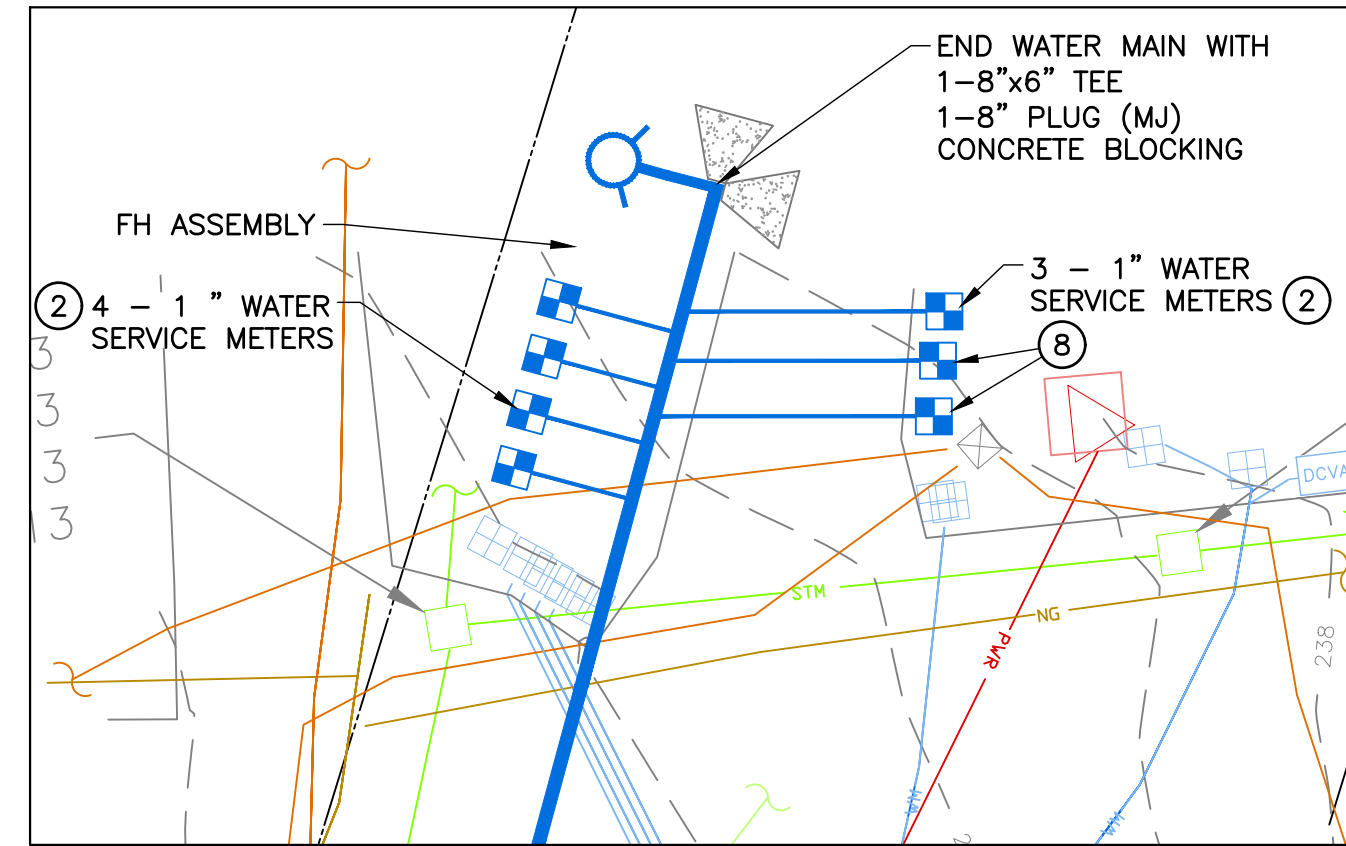
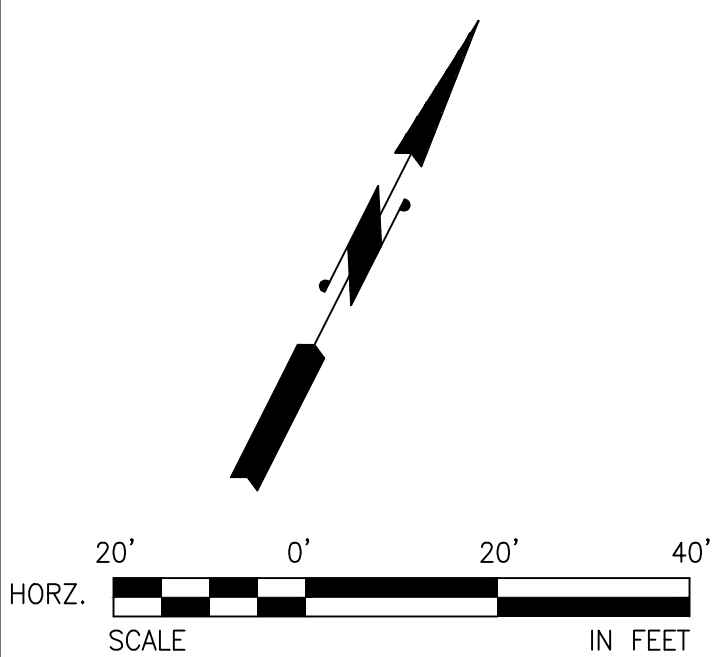
BASE MAP L7
C1817
SHEET
12 OF 24

GENERAL NOTES

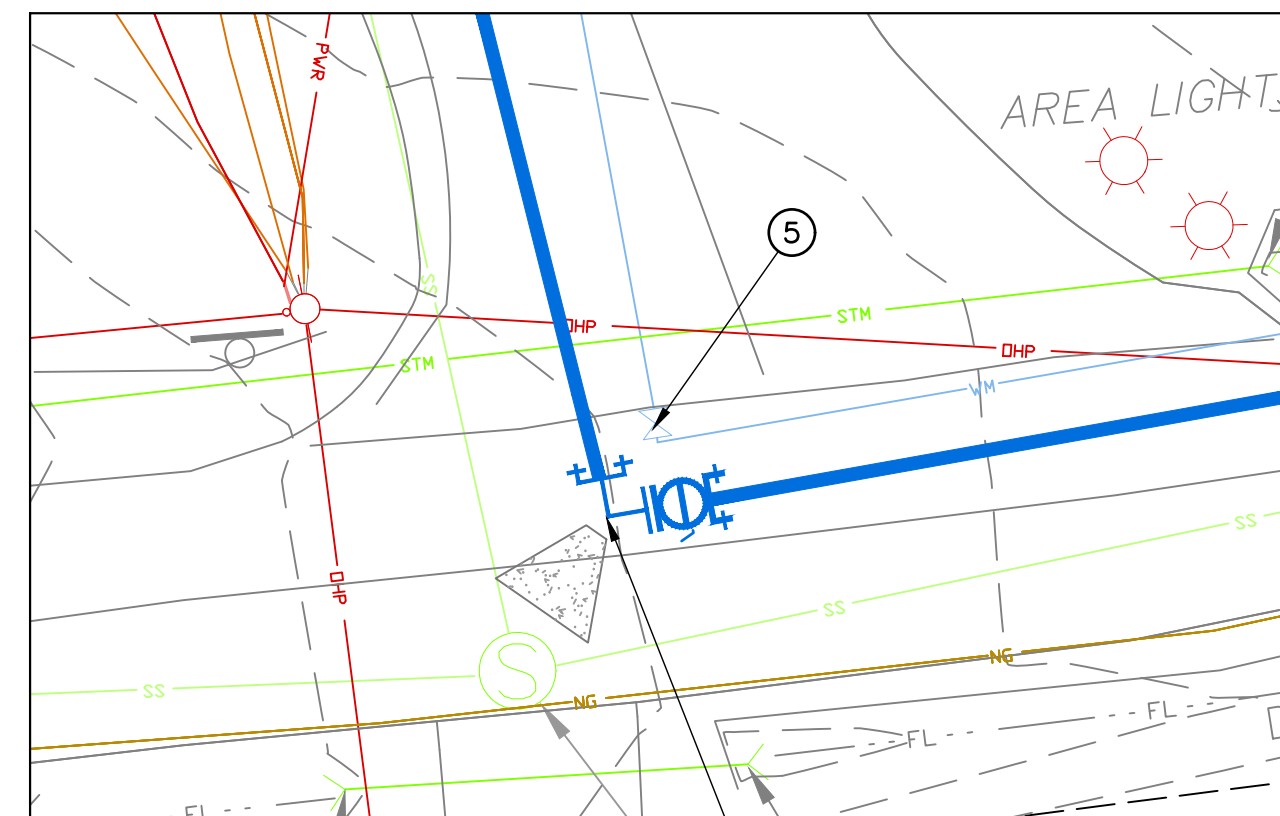
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- CONSTRUCT NEW WATER MAIN BELOW EXISTING WATER MAIN UNLESS OTHERWISE NOTED OR COORDINATED WITH NUD. A MINIMUM OF 1 FOOT OF VERTICAL CLEARANCE IS REQUIRED BETWEEN UTILITIES. THIS CAN BE REDUCED TO 6" WITH ETHAFOAM INSTALLED BETWEEN THE UTILITIES.
- ALL SERVICE CONNECTIONS ARE ASSUMED TO HAVE A PRIVATE PRV DEVICE ON THE BACKSIDE OF THE METER. UNLESS OTHERWISE NOTED, A REPLACEMENT PRV DEVICE SHALL BE INSTALLED AT THE TIME OF RECONNECTION. SEE SPECIFICATION FOR PRESSURE TESTING REQUIREMENTS. SEE SHEET 20 FOR STANDARD DETAIL.
- WATER SERVICE INSTALLATION MAY BE COMPLETED BY EITHER OPEN TRENCH OR TRENCHLESS CONSTRUCTION. MEANS AND METHODS FOR WATER SERVICE INSTALLATION SHALL BE DETERMINED BY THE CONTRACTOR.
- CONTRACTOR TO COORDINATE TRANSITION OF SERVICE TO NEW WATER MAIN WITH NORTHSORE UTILITY DISTRICT IN ORDER TO RESTORE SERVICE WITH MINIMAL DISRUPTION.

CONSTRUCTION NOTES

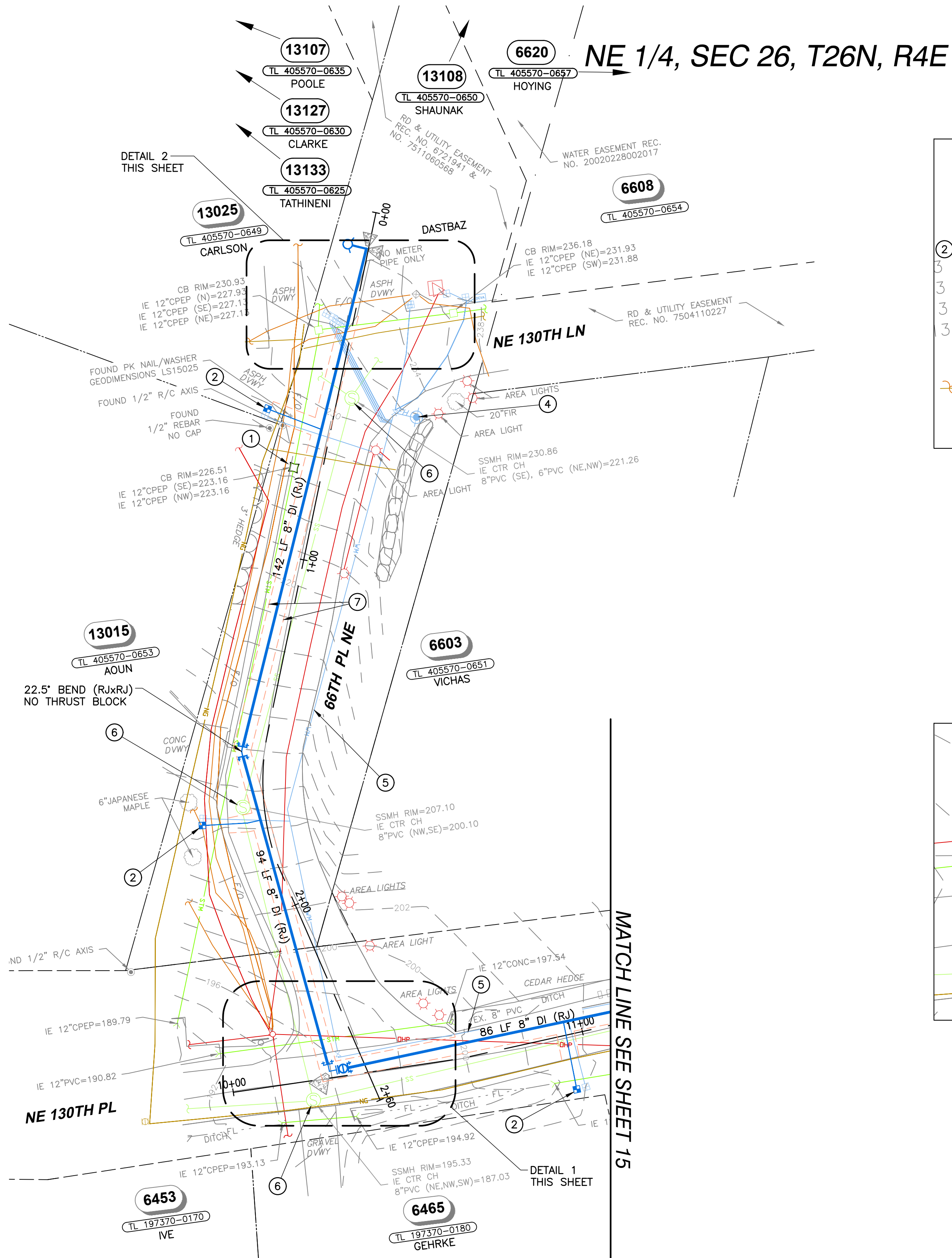
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- INSTALL NEW 1" WATER SERVICE PER STANDARD DETAIL. CONNECT BACKSIDE OF METER TO EXISTING CUSTOMER SERVICE LINE. SEE STANDARD WATER DETAIL ON SHEET 20. COORDINATE WITH NUD INSPECTOR REGARDING CONNECTIONS TO EXISTING PRIVATE SERVICE LINE TO PREVENT PRIVATE SIDE SERVICE CROSSINGS AND MISMATCHED METERS AND PRIVATE SERVICES.
- NOT USED THIS SHEET.
- CLOSE EXISTING FIRE HYDRANT VALVE, REMOVE VALVE CAN, AND BACKFILL PER SPECIFICATIONS. REMOVE AND SALVAGE EXISTING FH AND DELIVER TO THE DISTRICT YARD IN KENMORE IN A CLEAN AND OPERABLE CONDITION. REMOVE PROTECTIVE BOLLARDS WHERE NECESSARY. INSTALL NEW FH ASSEMBLY PER THE STANDARD DETAIL.
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- REPLACE SEWER MANHOLE FRAME, COVER, AND ADJUSTMENT RINGS PER DISTRICT SPECIFICATIONS.
- APPROXIMATE SAWCUT AND TRENCH PATCH LIMITS.
- COMBINE DOMESTIC AND FIRE METERS INTO ONE METER PER DETAIL IN SHEET 24.



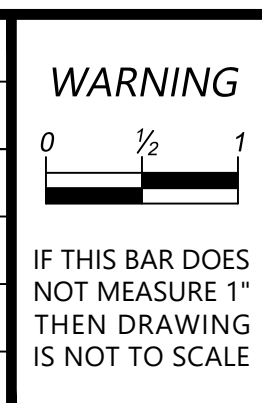
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1"=10'
HORIZ. 0 5 10 20
Scale In Feet



DETAIL 1
1"=10'
HORIZ. 0 5 10 20
Scale In Feet

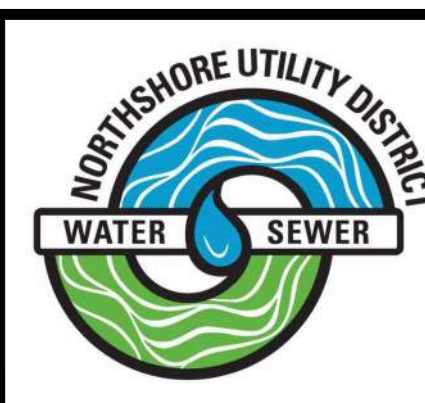


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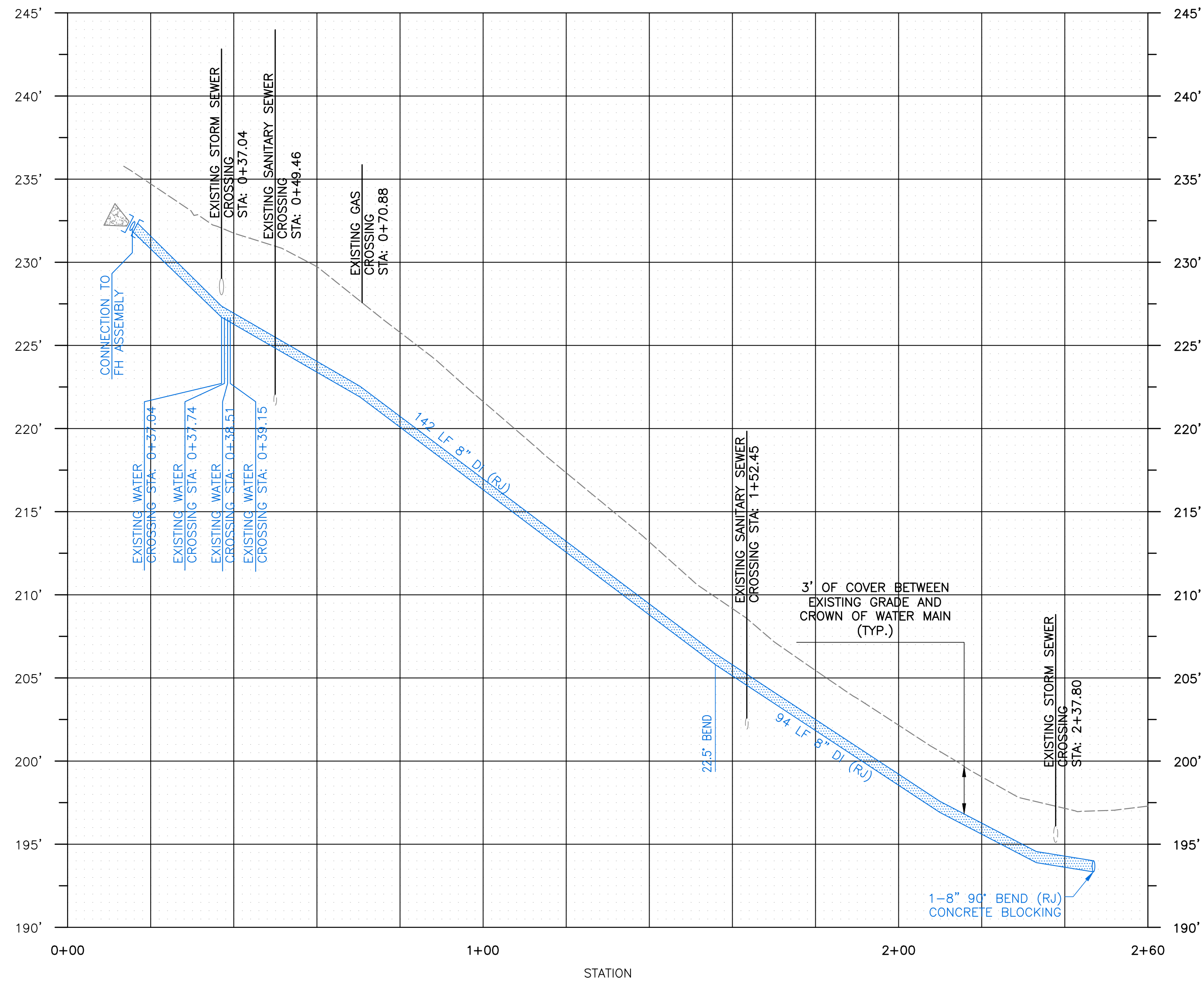


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CONTRACT 2023-02
WOODLAND COVE WATER SERVICE REPLACEMENT
SCHEDULE B PLAN 1

BASE MAP L7
C1817
SHEET
13 OF 24

NE 1/4, SEC 26, T26N, R4E

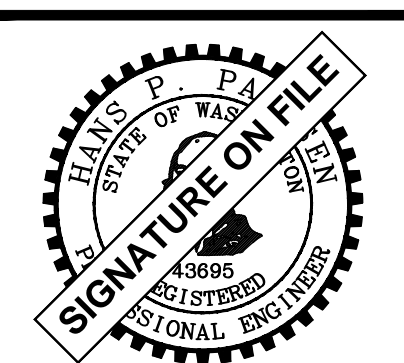
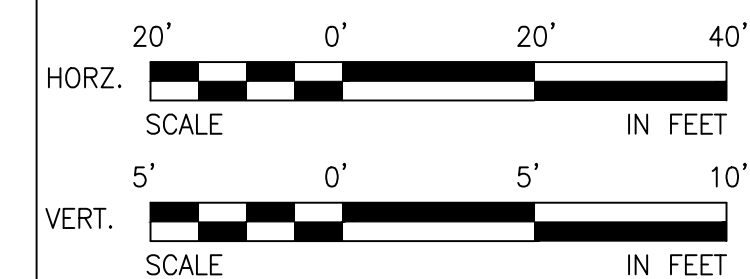


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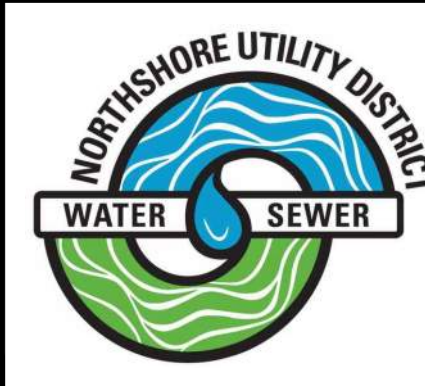
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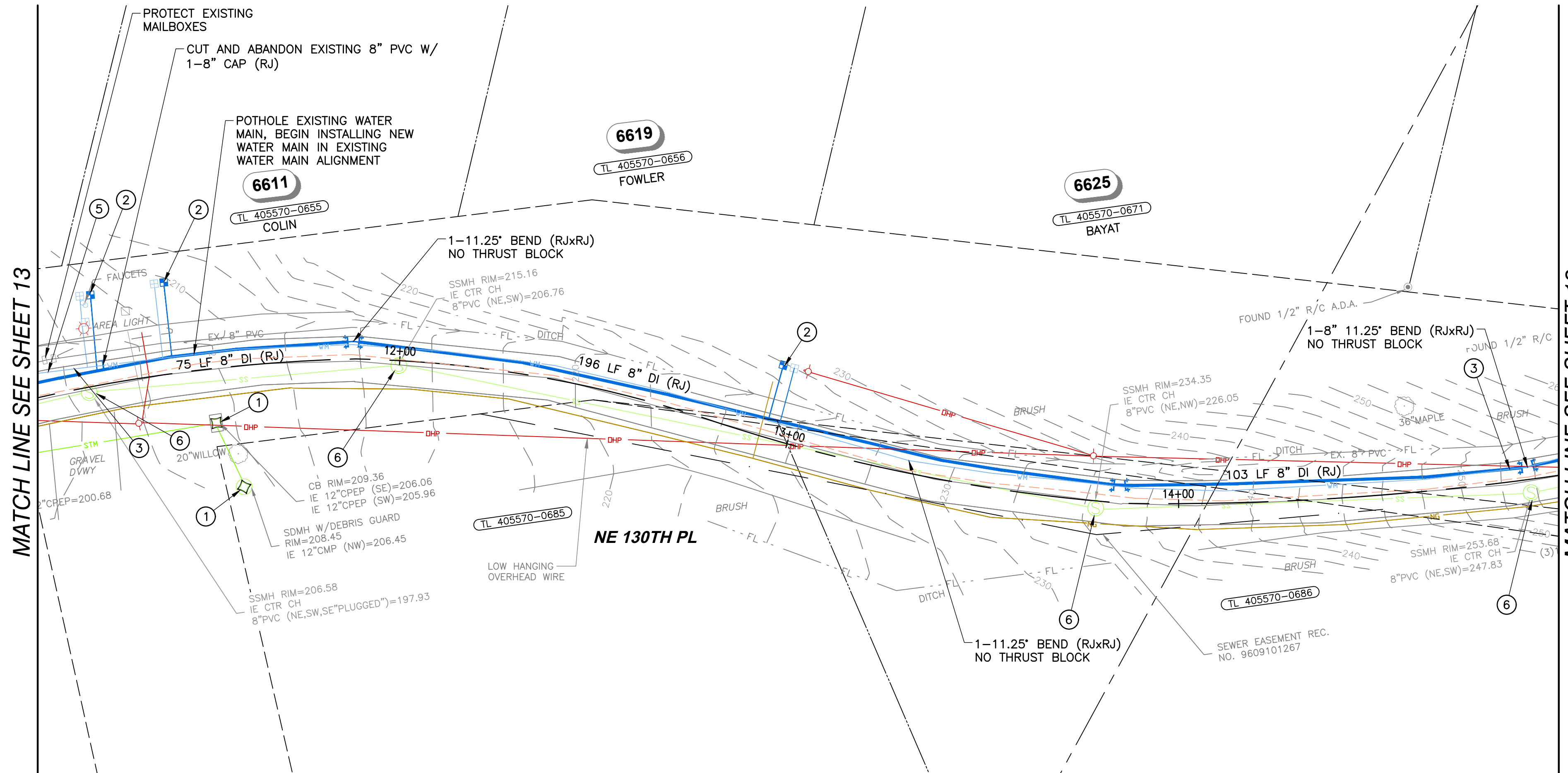
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CONTRACT 2023-02
 WOODLAND COVE WATER SERVICE REPLACEMENT
SCHEDULE B PROFILE 1

BASE MAP L7
C1817
SHEET
14 OF 24

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NE 1/4, SEC 26, T26N, R4E AND NW 1/4 SEC 25, T26N, R4E

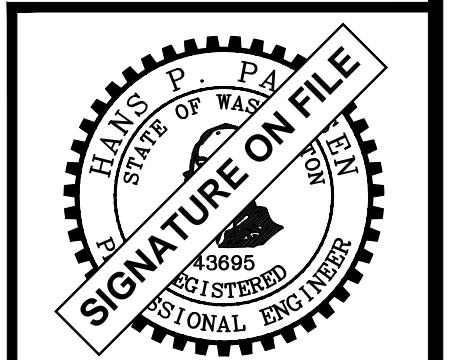
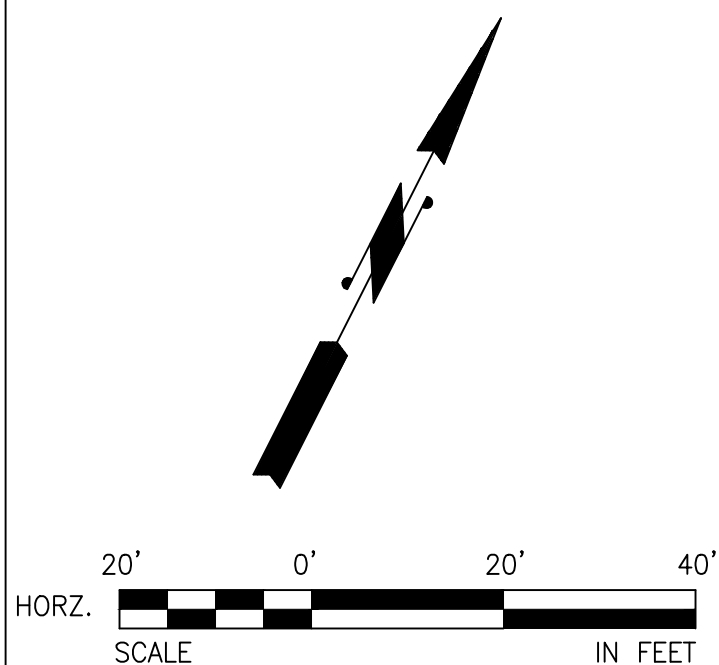


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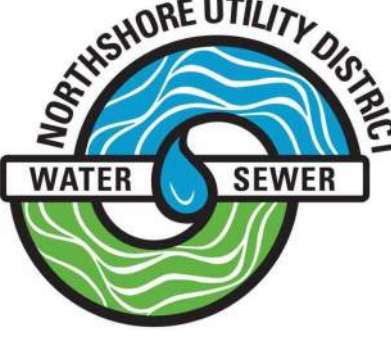
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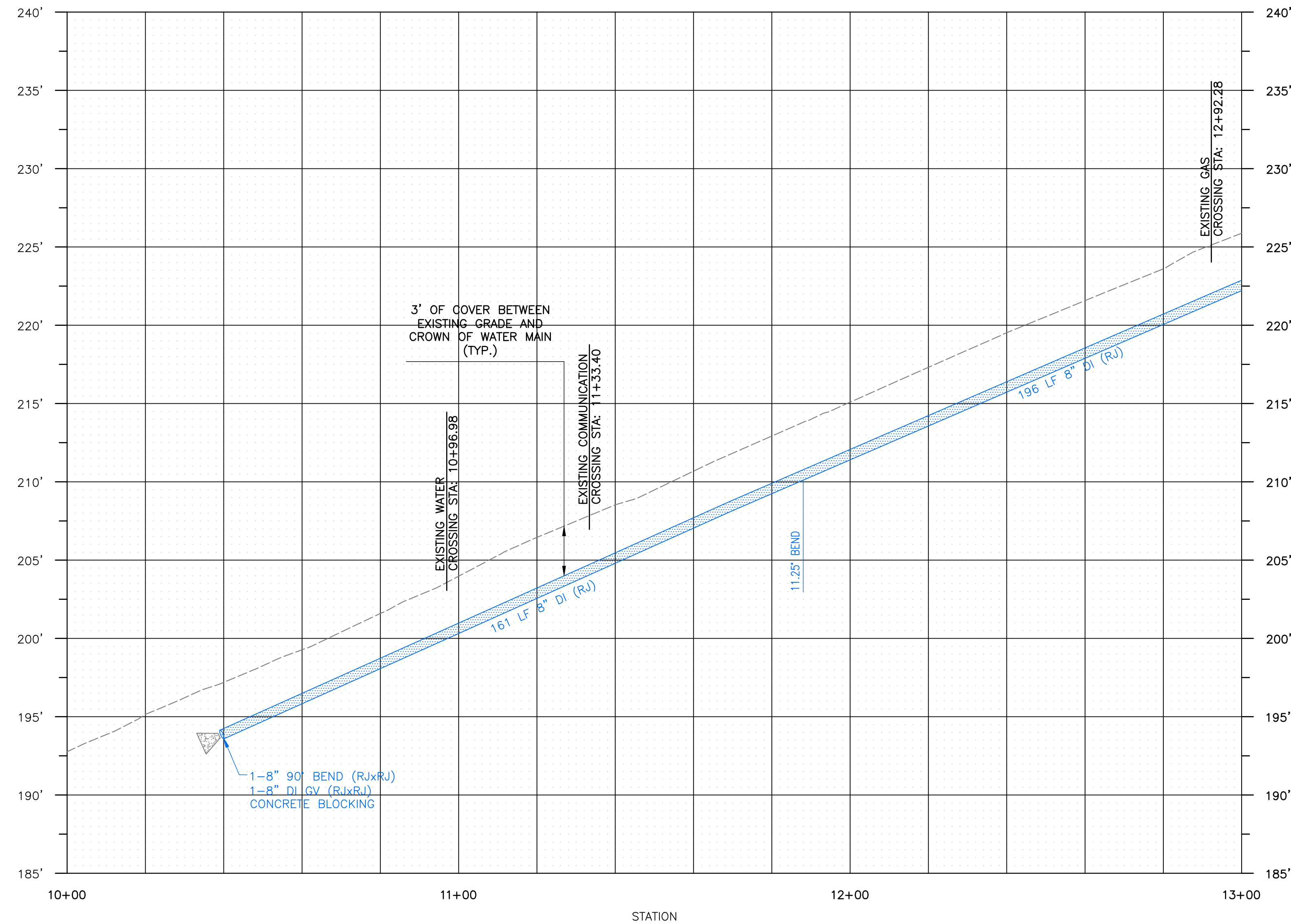
CONTRACT 2023-02
 WOODLAND COVE WATER SERVICE REPLACEMENT

SCHEDULE B PLAN 2

BASE MAP L7
C1817
SHEET
15 OF 24

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NE 1/4, SEC 26, T26N, R4E

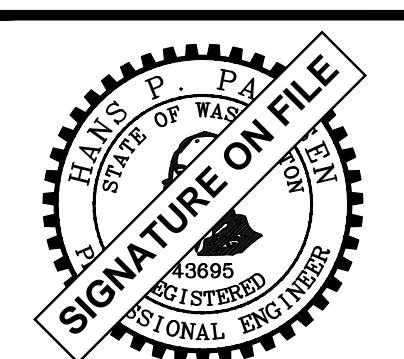
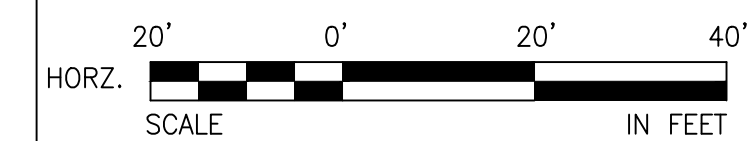


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- CLOSE EXISTING FIRE HYDRANT VALVE, REMOVE VALVE CAN, AND BACKFILL PER SPECIFICATIONS. REMOVE AND SALVAGE EXISTING FH AND DELIVER TO THE DISTRICT YARD IN KENMORE IN A CLEAN AND OPERABLE CONDITION. REMOVE PROTECTIVE BOLLARDS WHERE NECESSARY. INSTALL NEW FH ASSEMBLY PER THE STANDARD DETAIL.
- THE EXISTING WATER MAIN SHALL BE DEACTIVATED AND REMAIN SURPLUS FACILITIES OF THE DISTRICT. CLOSE ALL BRANCH VALVES AND LEAVE IN-LINE VALVES OPEN. REMOVE AND DISPOSE OF EXISTING VALVE BOXES. THE PIPE SHALL BE CAPPED WATER-TIGHT WITH FITTINGS IN ACCORDANCE WITH THE SPECIFICATIONS.
- REPLACE SEWER MANHOLE PER DISTRICT SPECIFICATIONS.



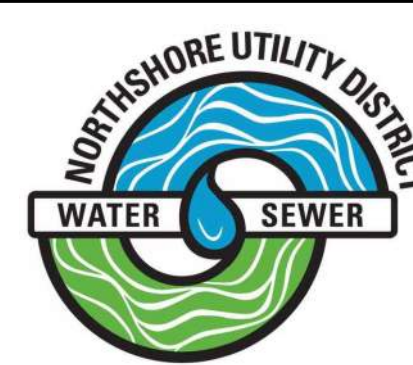
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DATE	MAR 2023



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 6830 NE 185th St. P.O. Box 82489
 Kenmore, WA 98028-2684 Kenmore, WA 98028-2684
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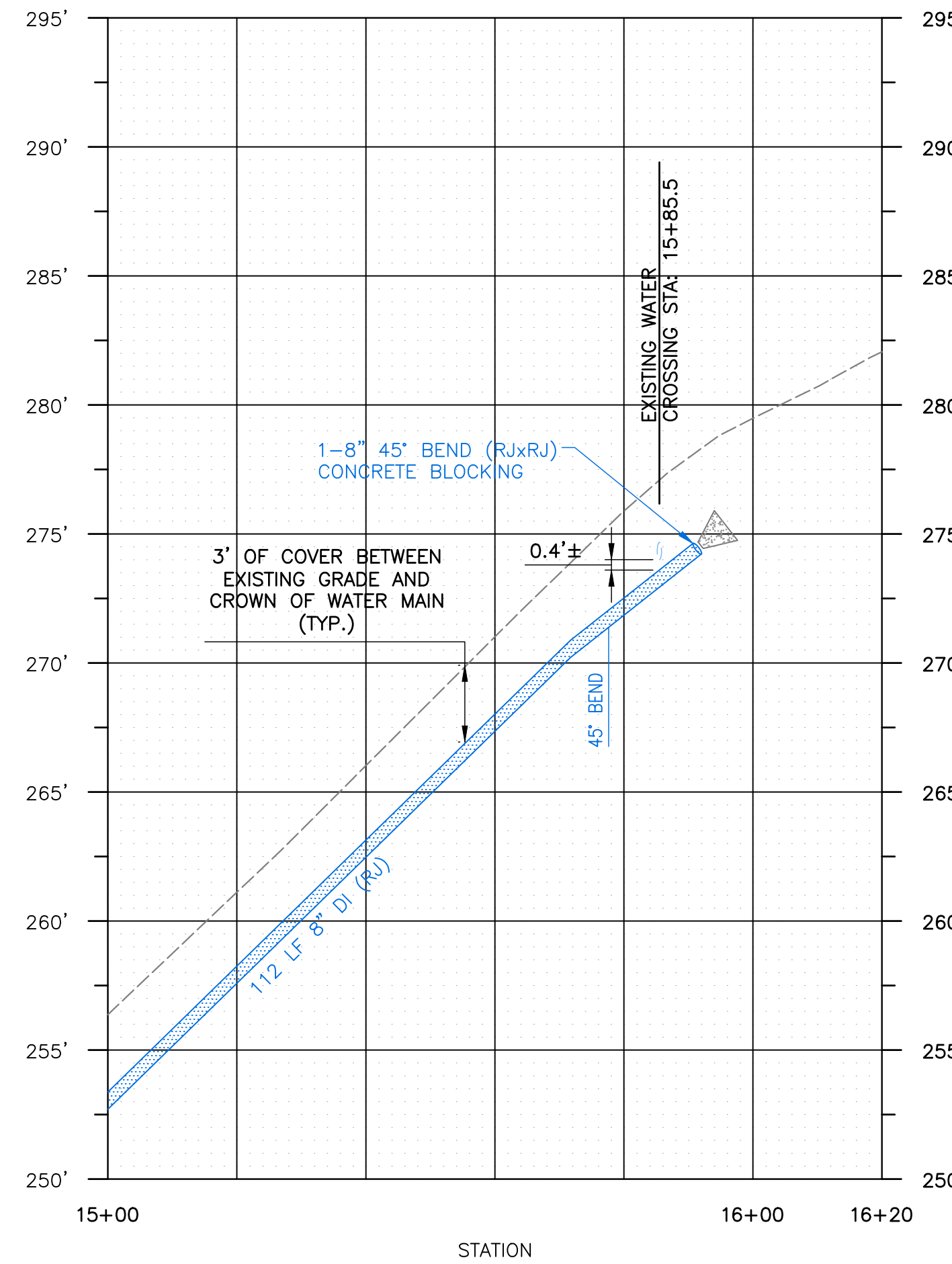
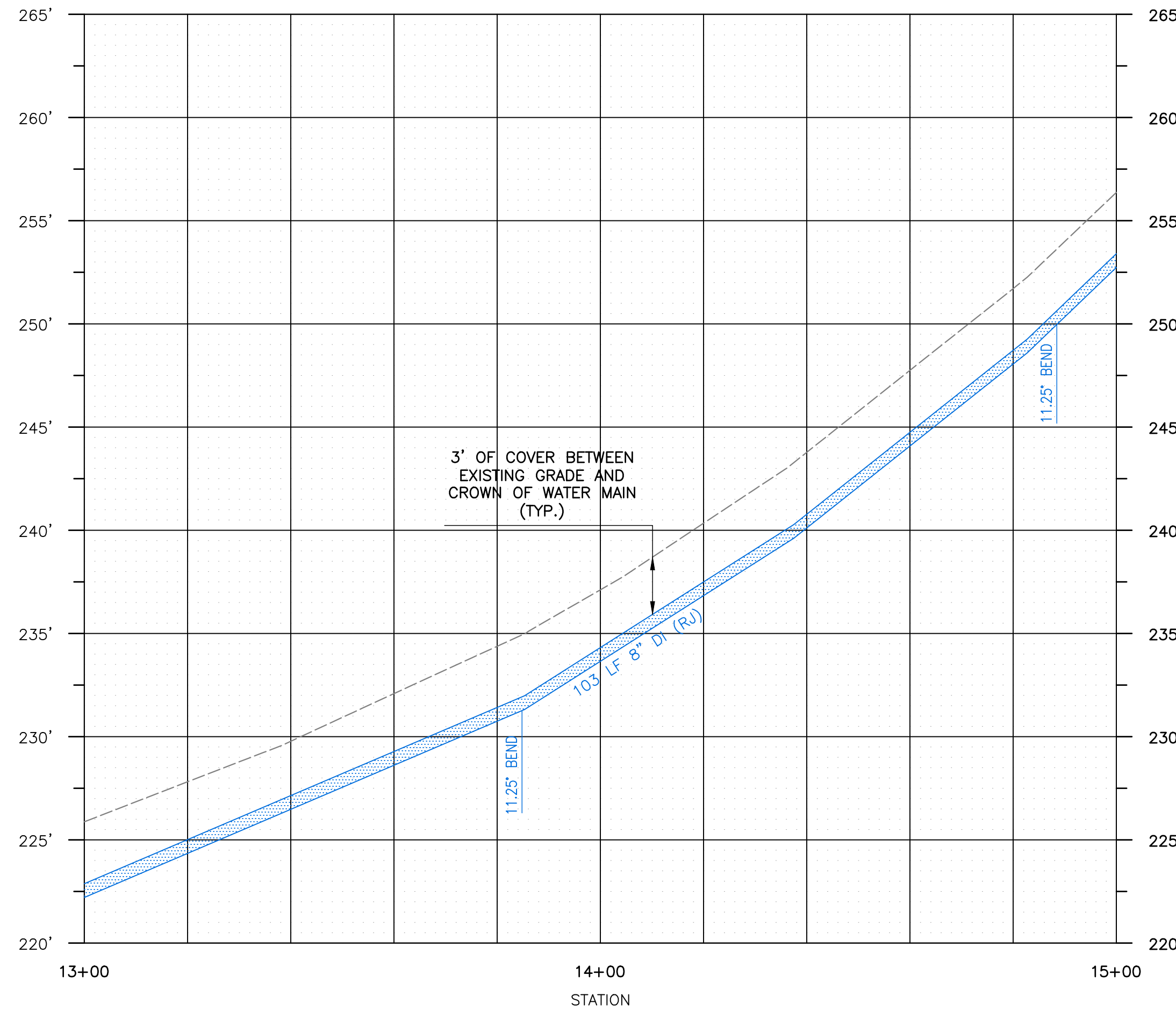
CONTRACT 2023-02
 WOODLAND COVE WATER SERVICE REPLACEMENT

SCHEDULE B PROFILE 2

BASE MAP L7
 C1817
 SHEET
 16 OF 24

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NE 1/4, SEC 26, T26N, R4E

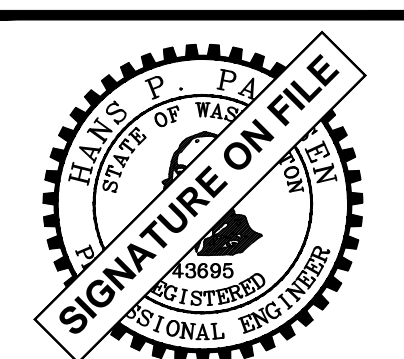
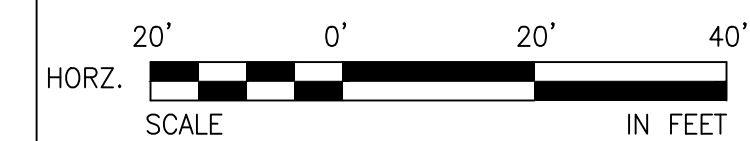


GENERAL NOTES

- SEE SHEET 2 FOR GENERAL NOTES, LEGEND, AND SURVEY CONTROL INFORMATION.
- PRIOR TO EXCAVATION, INSTALL TESC FACILITIES PER SHEET 2.
- PRIOR TO STARTING NEW WATER MAIN CONSTRUCTION, CONTRACTOR TO SUBMIT TEMPORARY SERVICE PLAN FOR DISTRICT REVIEW AND APPROVAL. ONCE APPROVED, THE CONTRACTOR SHALL INSTALL THE TEMPORARY WATER SERVICE PIPING AND CONNECT TO THE EXISTING WATER METERS IN ORDER TO KEEP PROPERTIES IN SERVICE DURING CONSTRUCTION.
- COORDINATE AND CONFIRM FITTING REQUIREMENTS IN THE FIELD WITH THE DISTRICT PRIOR TO CONSTRUCTION.
- ALL BURIED WATER MAIN SHALL BE RESTRAINED JOINT (R.J.) PIPE WITH FIELD LOK GASKETS (OR APPROVED EQUAL) AND POLYETHYLENE ENCASEMENT PER NUD STANDARD SPECIFICATIONS.
- LOCATION, MATERIAL, DIAMETER, AND DEPTH OF EXISTING WATER MAINS SHALL BE VERIFIED PRIOR TO CONNECTION.
- POTHOLE ALL UTILITY CROSSINGS (WATER, SEWER, POWER, TELEPHONE, GAS, ETC.) PRIOR TO COMMENCING WATER MAIN INSTALLATION IN ORDER TO CONFIRM THE VERTICAL LOCATION AS SHOWN.
- CONSTRUCT NEW WATER MAIN BELOW EXISTING WATER MAIN UNLESS OTHERWISE NOTED OR COORDINATED WITH NUD. A MINIMUM OF 1 FOOT OF VERTICAL CLEARANCE IS REQUIRED BETWEEN UTILITIES. THIS CAN BE REDUCED TO 6" WITH ETHAFOAM INSTALLED BETWEEN THE UTILITIES.
- ALL SERVICE CONNECTIONS ARE ASSUMED TO HAVE A PRIVATE PRV DEVICE ON THE BACKSIDE OF THE METER. UNLESS OTHERWISE NOTED, A REPLACEMENT PRV DEVICE SHALL BE INSTALLED AT THE TIME OF RECONNECTION. SEE SPECIFICATION FOR PRESSURE TESTING REQUIREMENTS. SEE SHEET 20 FOR STANDARD DETAIL.
- WATER SERVICE INSTALLATION MAY BE COMPLETED BY EITHER OPEN TRENCH OR TRENCHLESS CONSTRUCTION. MEANS AND METHODS FOR WATER SERVICE INSTALLATION SHALL BE DETERMINED BY THE CONTRACTOR.
- CONTRACTOR TO COORDINATE TRANSITION OF SERVICE TO NEW WATER MAIN WITH NORTHSORE UTILITY DISTRICT IN ORDER TO RESTORE SERVICE WITH MINIMAL DISRUPTION.

CONSTRUCTION NOTES

- CATCH BASIN AND INLET SEDIMENTATION PROTECTION REQUIRED, SEE SHEET 2 FOR ADDITIONAL INFORMATION.
- INSTALL NEW 1" WATER SERVICE PER STANDARD DETAIL. CONNECT BACKSIDE OF METER TO EXISTING CUSTOMER SERVICE LINE. SEE STANDARD WATER DETAIL ON SHEET 20.
- PROPOSED WATER MAIN SHALL BE LOCATED WITHIN EXISTING WATER MAIN ALIGNMENT ALONG NE 130TH STREET BETWEEN INTERSECTIONS OF 66TH PL NE AND PRIVATE DRIVE. EXISTING WATER MAIN SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH DISTRICT SPECIFICATIONS.
- CLOSE EXISTING FIRE HYDRANT VALVE, REMOVE VALVE CAN, AND BACKFILL PER SPECIFICATIONS. REMOVE AND SALVAGE EXISTING FH AND DELIVER TO THE DISTRICT YARD IN KENMORE IN A CLEAN AND OPERABLE CONDITION. REMOVE PROTECTIVE BOLLARDS WHERE NECESSARY. INSTALL NEW FH ASSEMBLY PER THE STANDARD DETAIL.
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- REPLACE SEWER MANHOLE PER DISTRICT SPECIFICATIONS.



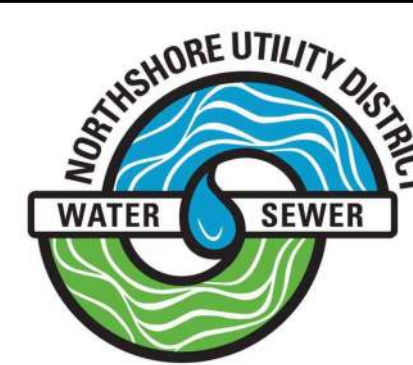
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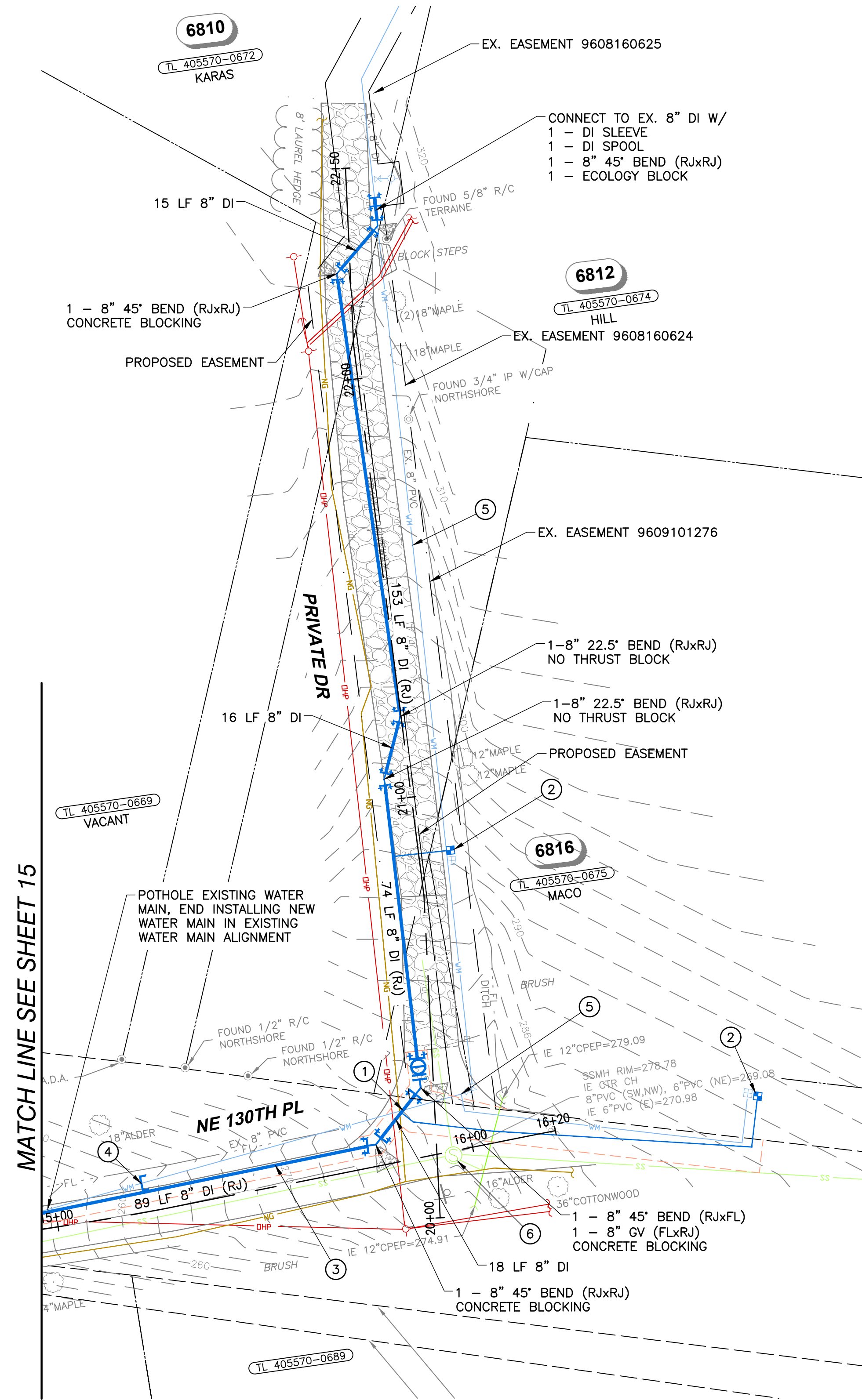
CONTRACT 2023-02
 WOODLAND COVE WATER SERVICE REPLACEMENT

SCHEDULE B PROFILE 2

BASE MAP L7
 C1817
 SHEET
 17 OF 24

BID SET DRAWING - NOT FOR CONSTRUCTION

NW 1/4, SEC 26, T26N, R4E & NW 1/4, SEC 25, T26N, R4E

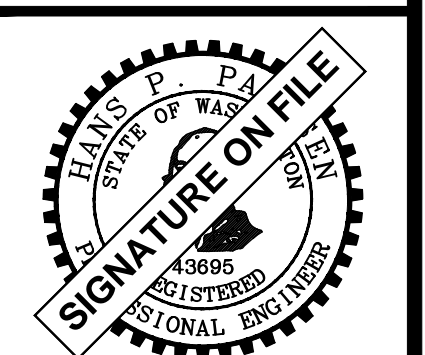
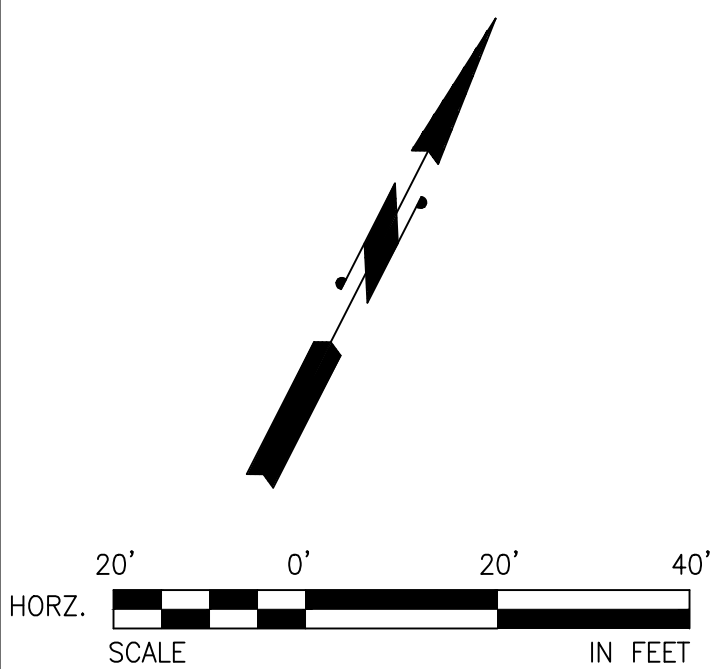


GENERAL NOTES

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- COORDINATE AND CONFIRM FITTING REQUIREMENTS IN THE FIELD WITH THE DISTRICT PRIOR TO CONSTRUCTION.
- ALL BURIED WATER MAIN SHALL BE RESTRAINED JOINT (R.J.) PIPE WITH FIELD LOK GASKETS (OR APPROVED EQUAL) AND POLYETHYLENE ENCASUREMENT PER NUD STANDARD SPECIFICATIONS.
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CONSTRUCTION NOTES

- CONTRACTOR SHALL POTHOLE AT EXISTING CROSSINGS TO VERIFY FEASIBILITY OF PROPOSED CONSTRUCTION, TYP.
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- CUT AND CAP.
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- REPLACE SEWER MANHOLE PER DISTRICT SPECIFICATIONS.



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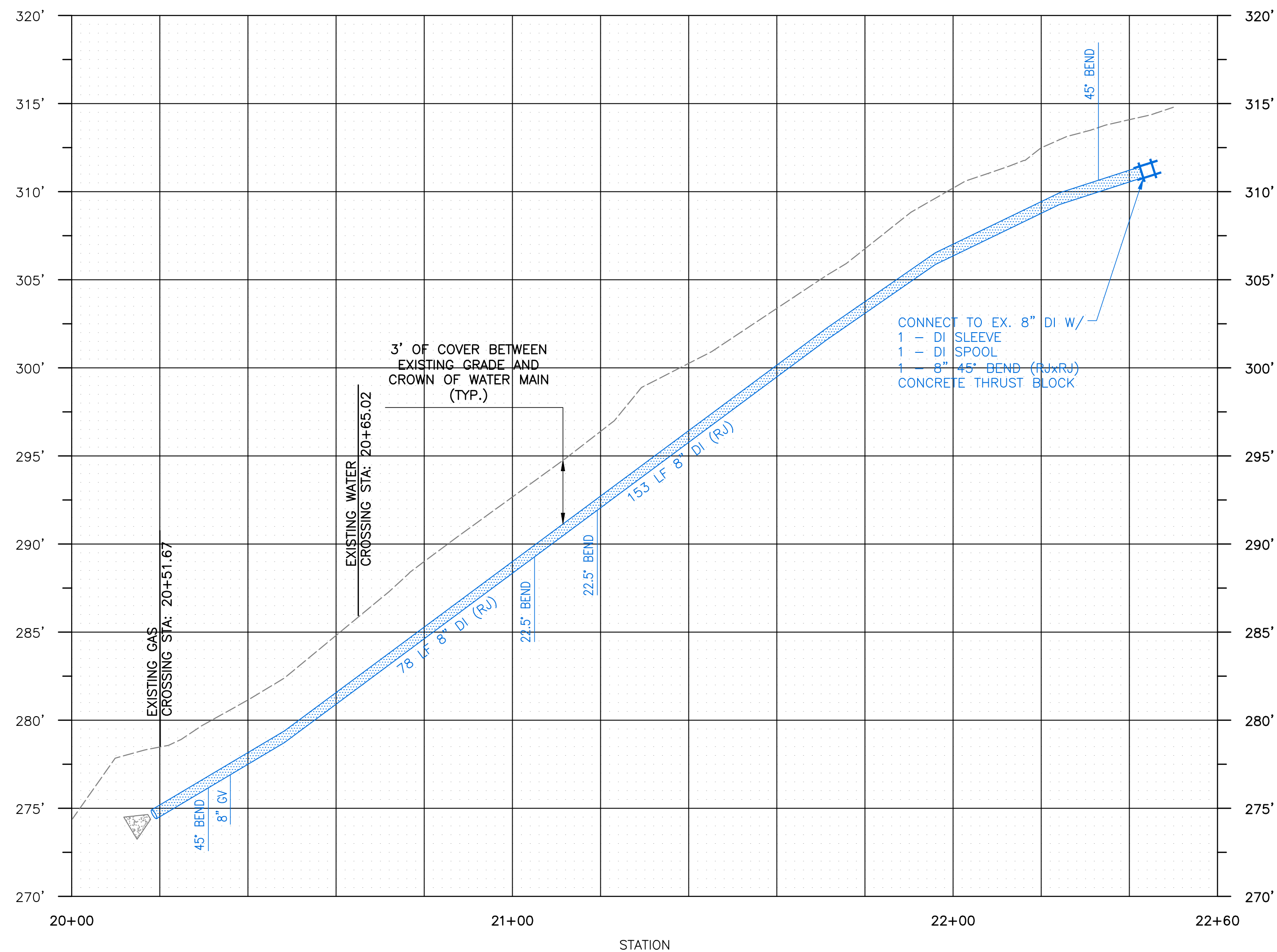
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CONTRACT 2023-02
 WOODLAND COVE WATER SERVICE REPLACEMENT

SCHEDULE B PLAN 3

BASE MAP L7
C1817
SHEET
18 OF 24

NW 1/4, SEC 26, T26N, R4E & NW 1/4, SEC 25, T26N, R4E

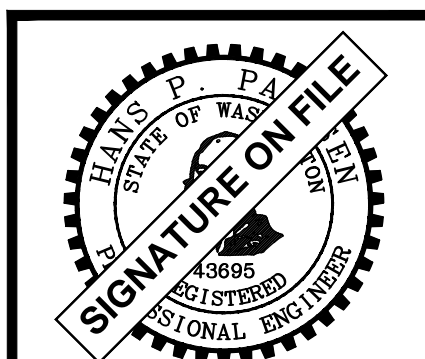
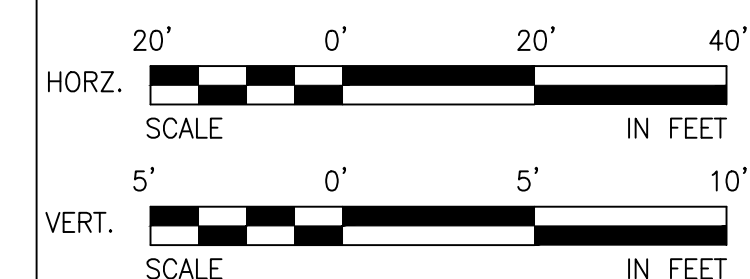


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- CONTRACTOR TO COORDINATE TRANSITION OF SERVICE TO NEW WATER MAIN WITH NORTSHORE UTILITY DISTRICT IN ORDER TO RESTORE SERVICE WITH MINIMAL DISRUPTION.

CONSTRUCTION NOTES

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- REPLACE SEWER MANHOLE PER DISTRICT SPECIFICATIONS.



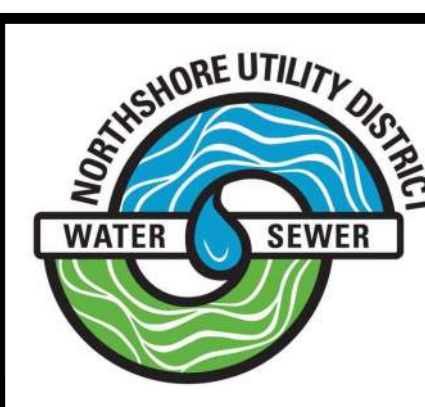
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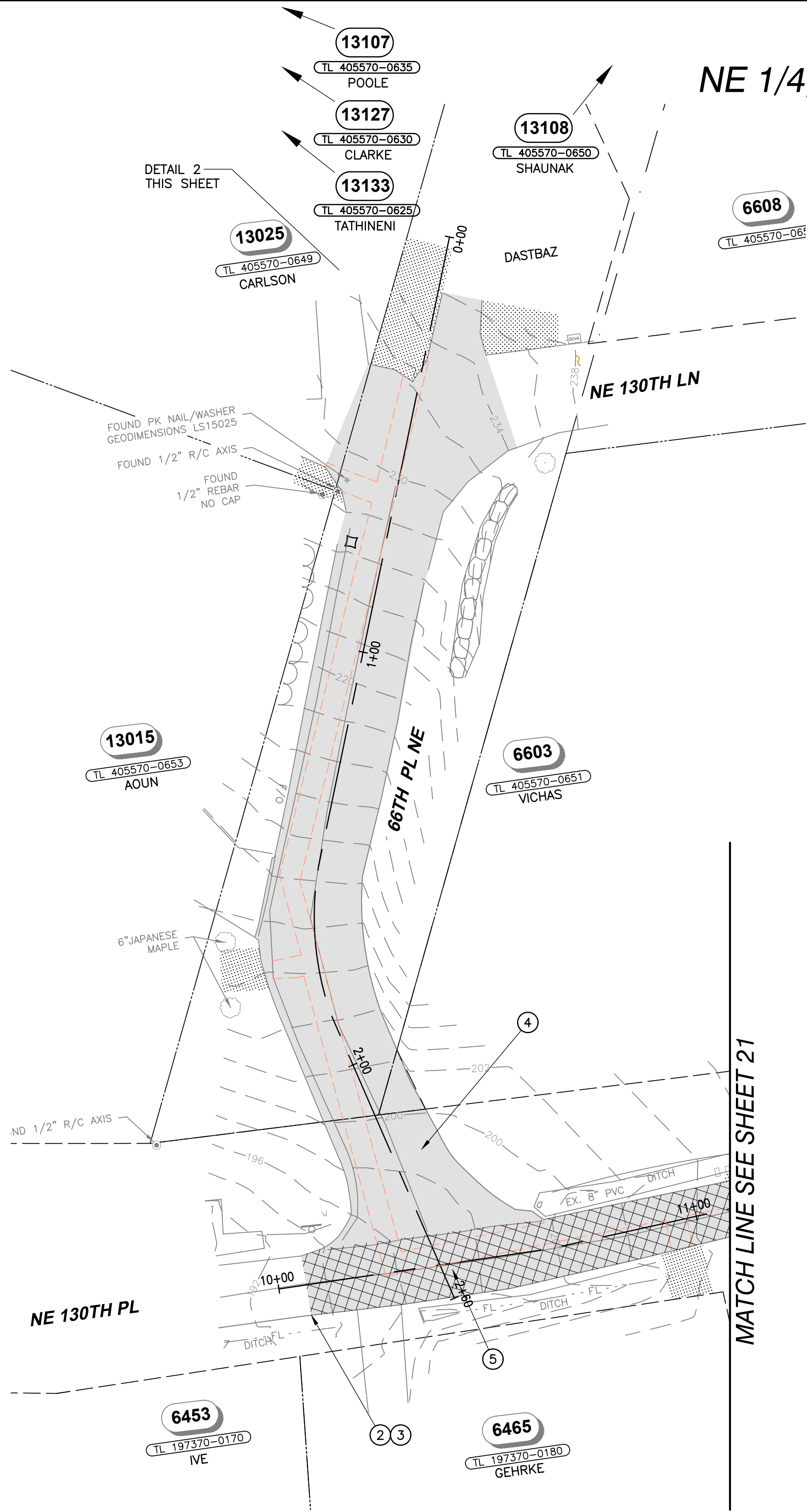


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CONTRACT 2023-02
 WOODLAND COVE WATER SERVICE REPLACEMENT
SCHEDULE B PROFILE 3

BASE MAP L7
C1817
SHEET
19 OF 24



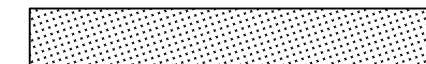

NE 1/4, SEC 26, T26N, R4E



GENERAL NOTES

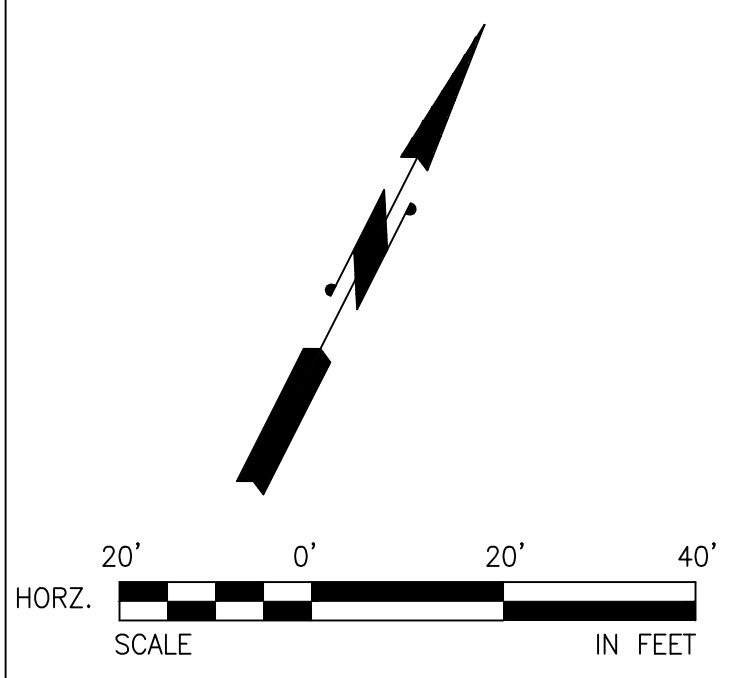
1. SEE SPECIFICATIONS FOR WORK AND PAYMENT INCLUDED IN GENERAL RESTORATION.
2. GRASS AREAS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE RESTORED WITH 4" OF TOPSOIL AND SOD PER THE SPECIFICATIONS.
3. NOT ALL RESTORATION REQUIREMENTS MAY BE SHOWN. THE CONTRACTOR SHALL RESTORE ALL EXISTING IMPROVEMENTS DAMAGED BY CONSTRUCTION ACTIVITIES TO A CONDITION THAT IS EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION, WHETHER OR NOT THE EXISTING IMPROVEMENTS AND RESTORATION REQUIREMENTS ARE SHOWN ON THE PLANS.
4. PROVIDE A T-CUT AFTER TRENCH EXCAVATION, BACKFILL, AND COMPACTION.

LEGEND

-  ROADWAY SAWCUT AND TRENCH PATCH (APPROXIMATE LIMITS)
-  2" HOT MIX ASPHALT CLASS 1/2" BUTT GRIND AND OVERLAY
-  LANDSCAPE RESTORATION TO MATCH EXISTING CONDITIONS
-  FULL ROADWAY RECONSTRUCTION - MATCH EX. HMA THICKNESS PLUS 1" (MAX. 6") OVER MIN. 6" CRUSHED ROCK

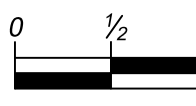
RESTORATION NOTES

- 1 ADJUST ALL UTILITY CASTINGS TO FINISHED GRADE
- 2 SAWCUT OR GRIND. SEAL WITH AR4000W (TYP.)
- 3 THOROUGHLY TACK ALL EDGES (TYP.)
- 4 BUTT GRIND AND OVERLAY
- 5 FULL ROADWAY RECONSTRUCTION



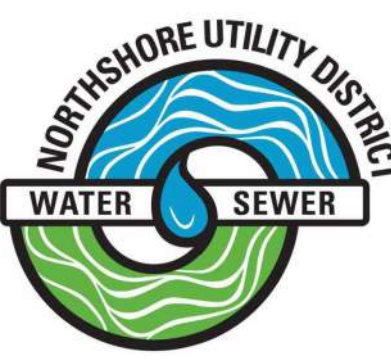
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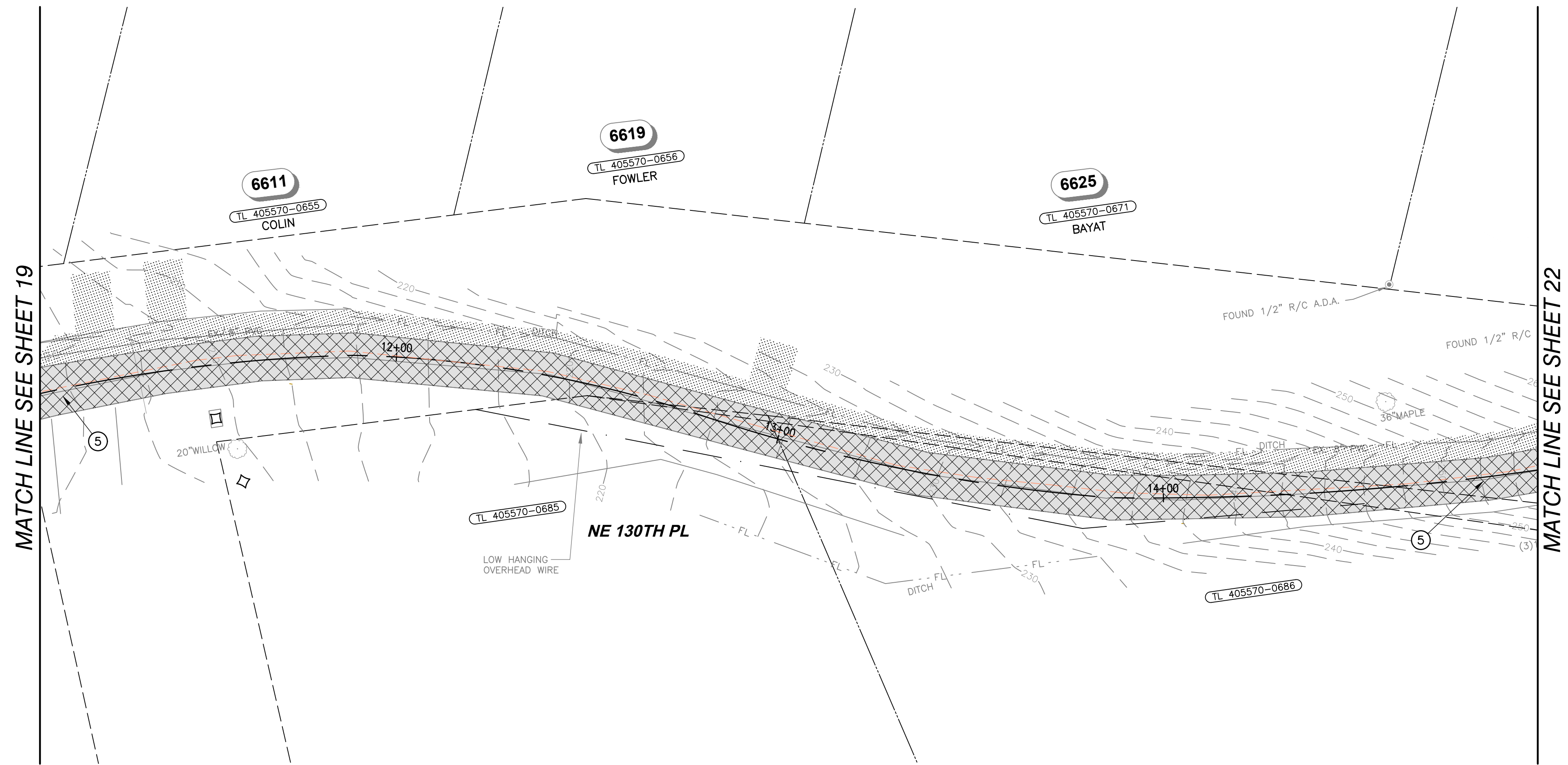


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CONTRACT 2023-02
 WOODLAND COVE WATER SERVICE REPLACEMENT
SCHEDULE B RESTORATION PLAN 1

BASE MAP L7
C1817
SHEET
20 OF 24

NE 1/4, SEC 26, T26N, R4E AND NW 1/4 SEC 25, T26N, R4E



GENERAL NOTES

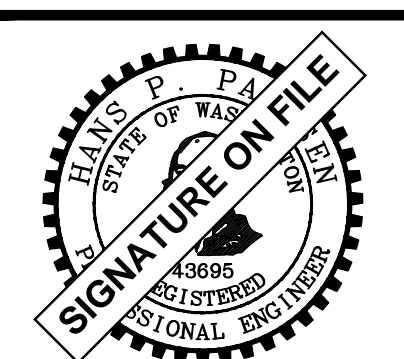
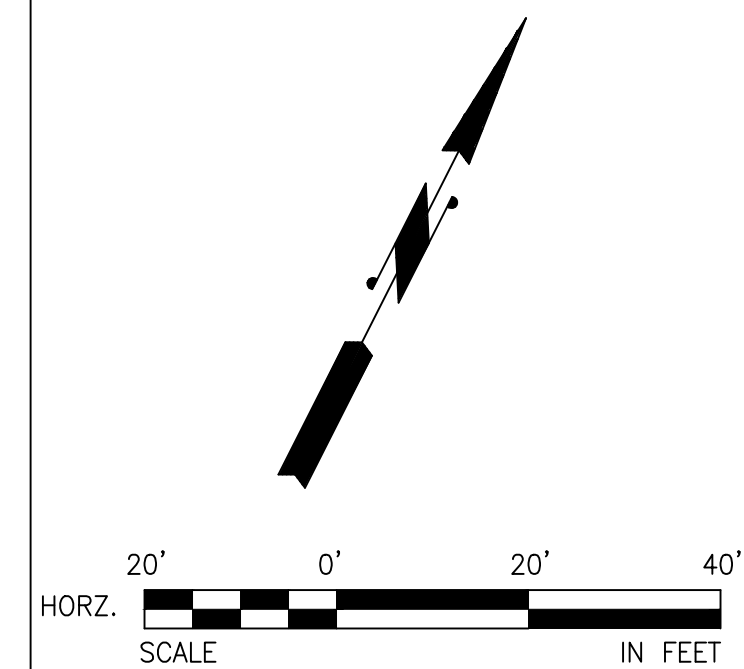
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LEGEND

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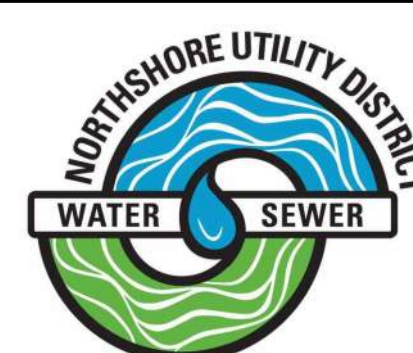
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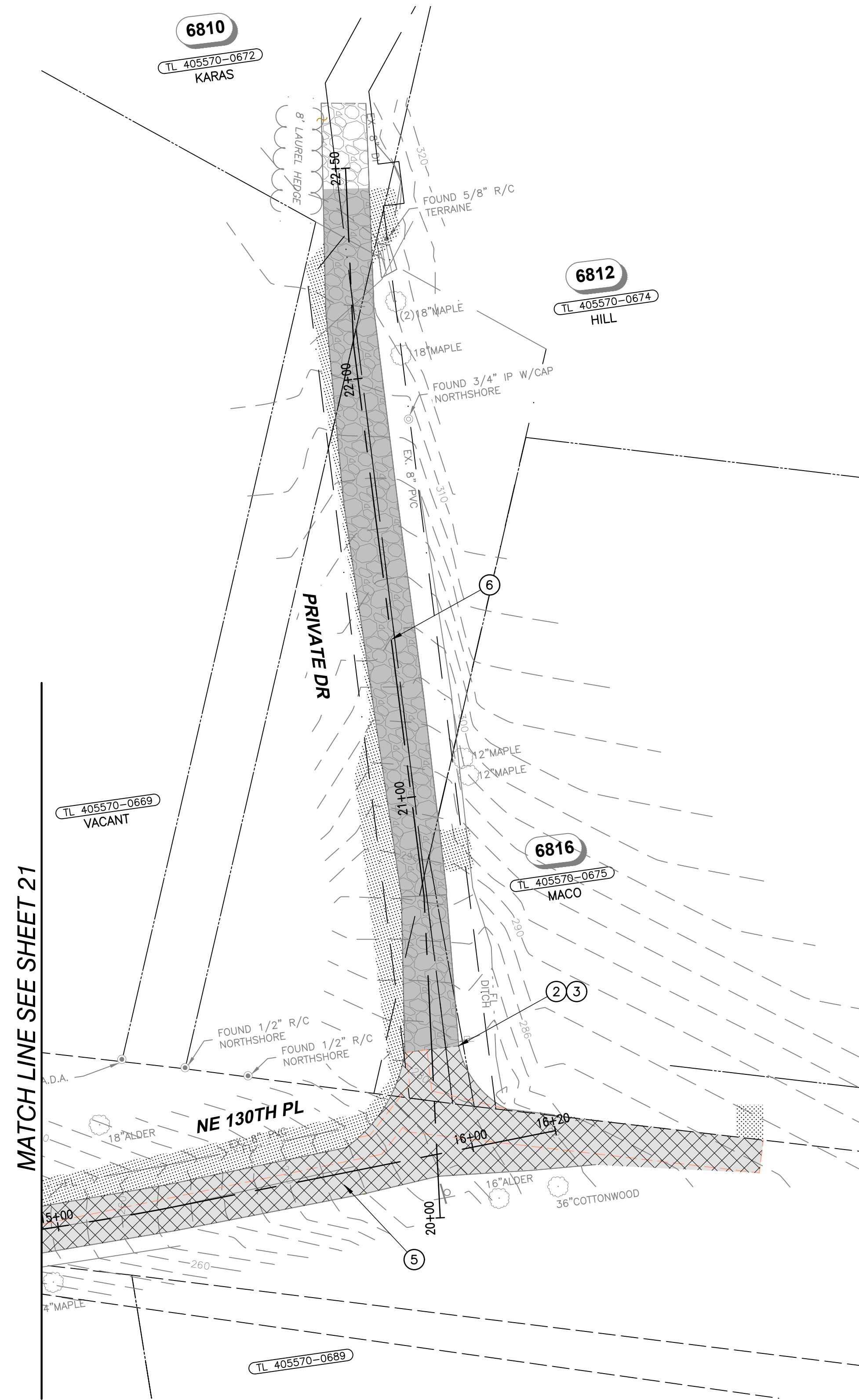
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SCHEDULE B RESTORATION PLAN 2

BASE MAP L7
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 21 OF 24

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NW 1/4, SEC 26, T26N, R4E & NW 1/4, SEC 25, T26N, R4E
NE 1/4, SEC 26, T26N, R4E



GENERAL NOTES

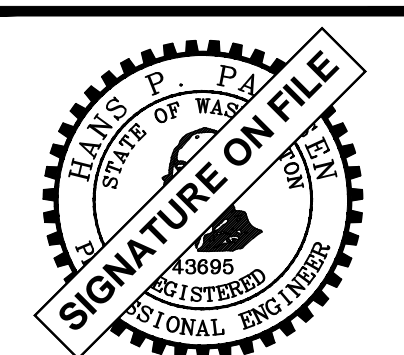
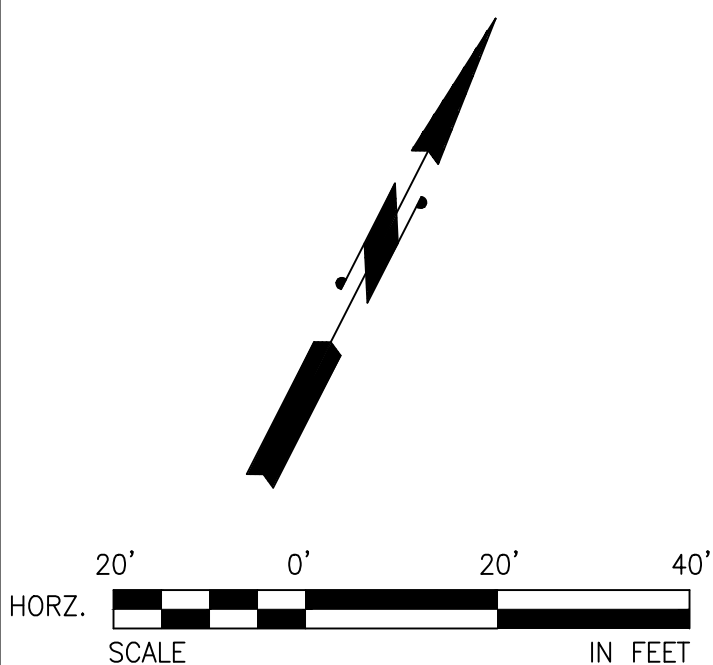
1. SEE SPECIFICATIONS FOR WORK AND PAYMENT INCLUDED IN GENERAL RESTORATION.
2. GRASS AREAS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE RESTORED WITH 4" OF TOPSOIL AND SOD PER THE SPECIFICATIONS.
3. NOT ALL RESTORATION REQUIREMENTS MAY BE SHOWN. THE CONTRACTOR SHALL RESTORE ALL EXISTING IMPROVEMENTS DAMAGED BY CONSTRUCTION ACTIVITIES TO A CONDITION THAT IS EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION, WHETHER OR NOT THE EXISTING IMPROVEMENTS AND RESTORATION REQUIREMENTS ARE SHOWN ON THE PLANS.
4. PROVIDE A T-CUT AFTER TRENCH EXCAVATION, BACKFILL, AND COMPACTION.

LEGEND

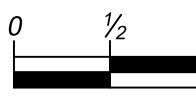
-  ROADWAY SAWCUT AND TRENCH PATCH (APPROXIMATE LIMITS)
-  2" HOT MIX ASPHALT CLASS 1/2" BUTT GRIND AND OVERLAY
-  LANDSCAPE RESTORATION TO MATCH EXISTING CONDITIONS
-  FULL ROADWAY RECONSTRUCTION - MATCH EX. HMA THICKNESS PLUS 1" (MAX. 6") OVER MIN. 6" CRUSHED ROCK
-  GRAVEL ROADWAY RESTORATION (APPROXIMATE LIMITS) - MIN. 4" COMPACTED CSTC

RESTORATION NOTES

1. ADJUST ALL UTILITY CASTINGS TO FINISHED GRADE
2. SAWCUT OR GRIND. SEAL WITH AR400W (TYP.)
3. THOROUGHLY TACK ALL EDGES (TYP.)
4. BUTT GRIND AND OVERLAY
5. FULL ROADWAY RECONSTRUCTION
6. GRAVEL ROADWAY RESTORATION



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DATE	MAR 2023



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CONTRACT 2023-02
 WOODLAND COVE WATER SERVICE REPLACEMENT
SCHEDULE B RESTORATION PLAN 3

BASE MAP L7
 C1817
 SHEET
 22 OF 24

BID SET DRAWING - NOT FOR CONSTRUCTION

THRUST BLOCK SIZING FOR 250 PSI PRESSURE

MIN. BEARING AREA UNDISTURBED SOIL IN SQUARE FEET.

PIPE SIZE	(A)	(B)	(C)	(D)	(E)
4"	3/2(2)	2/1(1)	2/1(1)	1/1(1)	1/1(1)
6"	6/4(4)	4/3(3)	3/2(2)	2/1(1)	1/1(1)
8"	10/7(7)	7/5(5)	5/4(4)	3/2(2)	2/1(1)
10"	15/10(10)	11/7(7)	8/5(5)	4/3(3)	2/2(2)
12"	22/14(14)	15/10(10)	12/8(8)	6/4(4)	3/2(2)
14"	29/20(20)	21/14(14)	16/11(11)	8/5(5)	4/3(3)
16"	38/28(28)	27/18(18)	21/14(14)	11/7(7)	5/4(4)
18"	48/33(33)	34/23(23)	26/18(18)	13/9(9)	7/5(5)
20"	62/40(40)	42/28(28)	32/22(22)	17/11(11)	8/5(5)
24"	86/58(58)	61/41(41)	47/31(31)	24/16(16)	12/8(8)

GENERAL NOTES:

- CONCRETE THRUST BLOCK AREA BASED UPON A SAFE SOIL BEARING LOAD OF 2,000/(3,000) LBS. PER SQ. FT. (SAND/SAND GRAVEL).
- AREAS MUST BE ADJUSTED FOR OTHER SIZE PIPE, PRESSURES AND SOIL CONDITIONS.
- CONCRETE BLOCKING SHALL BE CAST-IN-PLACE AND HAVE MINIMUM OF 1/2 SQUARE FOOT CONTACT BEARING AGAINST THE FITTING.
- BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING JOINT INSTANT & PLASTIC SHEETING BETWEEN FITTING AND BLOCK.
- CONTRACTOR SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
- POLYETHYLENE WRAP NOT SHOWN FOR CLARITY.
- IN MUCK OR PEAT PIPE AND FITTING RESTRAINT SHALL BE AS DIRECTED BY THE DISTRICT.

SAFE BEARING LOADS IN LBS./SQ. FT.

THE SAFE BEARING LOADS GIVEN IN THE FOLLOWING TABLE ARE FOR HORIZONTAL THRUSTS WHEN THE DEPTH OF COVER OVER THE PIPE EXCEEDS 2 FEET.

SOIL	SAFE SOIL BEARING LOAD
MUCK, PEAT, ETC.	SEE GENERAL NOTE #7
SOFT CLAY	1,000
SAND	2,000
SAND AND GRAVEL	3,000
CEMENTED W/CLAY	4,000
HARD SHALE	10,000

CONCRETE BLOCKING - HORIZONTAL

DETAIL APPROVALS: EDITOR TMC, MANAGER S/D. NORTHSHORE UTILITY DISTRICT, 2023 STANDARD WATER DETAILS. LAST UPDATED FEBRUARY 2023.

VERTICAL BLOCKING

PIPE SIZE	VERT. BEND	CULT.	(A)	(B)	(L)
4"	11-1/4"	8	2.0'	3/4"	1.5'
	22-1/2"	11	2.2'	3/4"	2.0'
	30"	17	2.6'	3/4"	2.0'
	45"	30	3.1'	3/4"	2.0'
6"	11-1/4"	11	2.2'	3/4"	2.0'
	22-1/2"	25	2.5'	3/4"	2.0'
	30"	41	3.5'	3/4"	2.0'
	45"	68	4.1'	3/4"	2.0'
8"	11-1/4"	16	2.3'	3/4"	2.0'
	22-1/2"	47	3.6'	3/4"	2.5'
	30"	70	4.1'	3/4"	2.5'
	45"	123	5.0'	3/4"	2.0'
12"	11-1/4"	32	3.2'	3/4"	2.0'
	22-1/2"	88	4.5'	7/8"	3.0'
	30"	132	5.1'	7/8"	2.5'
	45"	232	6.1'	3/4"	2.5'
16"	11-1/4"	70	4.1'	7/8"	3.0'
	22-1/2"	184	5.7'	1-1/8"	4.0'
	30"	275	6.5'	1-1/4"	4.0'
	45"	478	7.8'	1-1/8"	4.0'
20"	11-1/4"	91	4.5'	7/8"	3.0'
	22-1/2"	228	6.1'	1-1/4"	4.0'
	30"	330	6.9'	1-3/8"	4.5'
	45"	560	8.2'	1-1/4"	4.0'
24"	11-1/4"	128	5.0'	1"	3.5'
	22-1/2"	320	6.8'	1-3/8"	4.5'
	30"	480	7.9'	1-5/8"	5.5'
	45"	820	9.4'	1-3/8"	4.5'

CONCRETE BLOCKING - VERTICAL

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FIRE HYDRANT ASSEMBLY

DETAIL APPROVALS: EDITOR TMC, MANAGER S/D. NORTHSHORE UTILITY DISTRICT, 2023 STANDARD WATER DETAILS. LAST UPDATED JANUARY 2023.

1" WATER SERVICE

DETAIL APPROVALS: EDITOR TMC, MANAGER S/D. NORTHSHORE UTILITY DISTRICT, 2023 STANDARD WATER DETAILS. LAST UPDATED JANUARY 2023.

EXISTING WATER SERVICE RE-CONNECTION

DETAIL APPROVALS: EDITOR TMC, MANAGER S/D. NORTHSHORE UTILITY DISTRICT, 2023 STANDARD WATER DETAILS. LAST UPDATED FEBRUARY 2023.

VALVE BOX COVER

VALVE OPERATING NUT EXTENSION

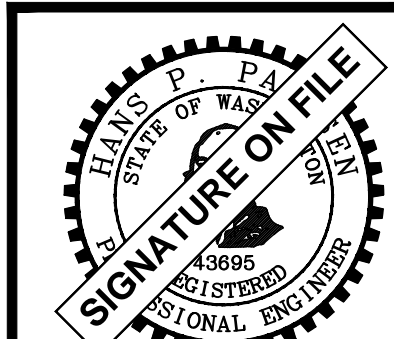
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TYPICAL TRENCH SECTION & PAYMENT LIMITS

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TEMPORARY BLOW-OFF ASSEMBLY FOR NEW WATERMAIN

DETAIL APPROVALS: EDITOR TMC, MANAGER S/D. NORTHSHORE UTILITY DISTRICT, 2023 STANDARD WATER DETAILS. LAST UPDATED FEBRUARY 2023.



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DESIGNED BY: MB
DRAWN BY: AMJ
CHECKED BY: HPP
APPROVAL: HPP
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DETAILS

BASE MAP L7
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23 OF 24

METER BOX AND COVER PER STANDARD WATER DETAILS 4 & 5.

CONCRETE MASTIC EXPANSION JOINT ALL SIDES (FULL DEPTH)

12" MIN. ALL SIDES x 6" MIN. THICK CONCRETE MATCH DRIVEWAY/SIDEWALK THICKNESS.

METER BOX COVER PER STANDARD WATER DETAILS 4 & 5.

CONCRETE MASTIC EXPANSION JOINT ALL SIDES (FULL DEPTH)

METER BOX PER STANDARD WATER DETAILS 4 & 5.

NOTES:

- METER BOX BLOCK OUT IS ONLY TO BE USED IN CONCRETE DRIVEWAYS OR SIDEWALKS.
- DISTRICT APPROVAL IS REQUIRED PRIOR TO INSTALLING METER BOX IN DRIVEWAYS.
- BACKFILL FOR METER BOX BASE IS TO BE COMPACTED 1 1/4" BASE COURSE OR 3/4" TOP COURSE CRUSHED ROCK.
- CONCRETE FINISH SHALL MATCH ADJACENT CONCRETE DRIVEWAY OR SIDEWALK FINISH.

METER BOX BLOCK OUT FOR DRIVEWAYS AND SIDEWALKS

NOT TO SCALE

DETAIL APPROVALS
EDITOR TMC
MANAGER S/D

NORTHSHORE UTILITY DISTRICT

2023 STANDARD WATER DETAILS

18

LAST UPDATED APRIL 2023

8 BOLT EXAMPLE

NO OF BOLTS	NOMINAL FLG SIZE	BOLT NUT TIGHTENING SEQUENCE
8	4", 6", 8"	1, 5, 3, 7, 2, 6, 4, 8
12	10", 12"	1, 7, 4, 10, 2, 8, 5, 11, 3, 9, 6, 12

NOTES:

- BOLTS AND NUTS SHALL BE CLEAN AND DRY (UNLUBRICATED).
 - HAND TIGHTEN ALL NUTS.
 - CONSECUTIVELY NUMBER THE BOLTS AROUND THE FLANGE.
- TIGHTEN BOLTS AND NUTS IN THE SEQUENCE GIVEN IN THE TABLE ABOVE.
 - FIRST: TIGHTEN BOLTS AND NUTS TO ONE-THIRD OF MANUFACTURER'S RECOMMENDED TARGET TORQUE.
 - SECOND: TIGHTEN BOLTS AND NUTS TO TWO-THIRDS OF MANUFACTURER'S RECOMMENDED TARGET TORQUE.
 - LAST: TIGHTEN BOLTS AND NUTS TO FULL MANUFACTURER'S RECOMMENDED TARGET TORQUE.
- SEQUENCE GIVEN IS FOR ANMA C110, AND ANSI CLASS 125 AND 150 FLANGES.

BOLT TIGHTENING SEQUENCE

NOT TO SCALE

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2023 STANDARD WATER DETAILS

19

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1" Flat Face Gothic

26 3/8"

1 1/2"

4"

26 1/2"

1 3/16"

6"

24"

28 1/8"

34"

T-Gasket

1 1/2" Flat Face Gothic

Stainless Steel Camlock

MPIIC® Multi-Tool Pickbar

PLAN

SECTION A-A

Safety Lock @ 90°

Fully Opened @ 120°

Notes:

- Manhole frame and cover shall be East Jordan Iron Works ERGO Assembly, Part Number 001040105L01.

MANHOLE LOCKING FRAME AND COVER

NOT TO SCALE

Detail Approvals
Editor TOC
Manager DPK

NORTHSHORE UTILITY DISTRICT

2023 STANDARD SEWER DETAILS

5

September 2016
S-230400001.dwg

SEE SERVICE DETAIL FOR SPECIFICS

NEW PRIVATE OWNERSHIP

FINISHED GRADE

5'-7"

5'-7"

1 1/2" MIN. COVER RECOMMENDED (TYP)

SETTER AND WATER METER BOX AS REQUIRED BY WATER SERVICE SIZE

LOCATE AND CONNECT TO EXISTING WATER SERVICE LINE. CONFIRM FITTINGS REQUIRED PRIOR TO DISRUPTING EXISTING WATER SERVICE AND COMMENCING RECONSTRUCTION. SEE NOTE 3.

MATERIALS LIST

ITEM	DESCRIPTION
(A)	BRASS NIPPLE, LENGTH TO FIT.
(B)	PRV WITH STRAINER, 3/4" - 2", WITH UNION COUPLING ON INLET. PRV SHALL BE WILKINS 600XL, WATTS LF25AUB-Z3, OR APPROVED EQUAL.
(C)	PRV BOX, LANDSCAPE AREAS - 10" DIAMETER, 10" TALL CARSON BOX 910 OR EQUAL, TRAFFIC AREAS - TRAFFIC RATED METER BOX WITH SOLID LID.
(D)	8" DIAMETER SDR 35 PVC RISER PIPE, LENGTH TO FIT, CUT OUT MOUSE HOLES TO FIT OVER SERVICE PIPE.
(E)	BRASS INSTA-TITE OR COMPRESSION PACK JOINT STYLE FITTING, COMPATIBLE WITH CUSTOMER'S PRIVATE WATER LINE.

NOTES:

- A NEW PRV SHALL BE INSTALLED IF A PRIVATE PRV IS REMOVED DURING NEW SERVICE INSTALLATION. CONTRACTOR TO DETERMINE SIZE OF NEW PRV.
- CONTRACTOR TO MEASURE AND RECORD EXISTING WATER PRESSURE AT BUILDING PRIOR TO RECONNECTION AND AFTER REESTABLISHMENT OF SERVICE. IF PRESSURE READINGS DIFFER BY MORE THAN 5 PSI, THE CONTRACTOR SHALL LOCATE AND CORRECT THE ISSUE AT THE PRV.
- ALL PIPE FITTINGS SHALL BE BRASS. PRIOR TO MAKING THE CONNECTION, THE CONTRACTOR SHALL POT-HOLE THE EXISTING SERVICE LINE TO DETERMINE THE LOCATION, SIZE, AND TYPE OF EXISTING PIPE AND TO CONFIRM THE PIPE AND FITTINGS REQUIRED TO MAKE THE CONNECTION. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED PIPE AND FITTINGS ON-SITE PRIOR TO DISRUPTING WATER SERVICE AND COMMENCING CONSTRUCTION. NO EXISTING WATER SERVICE SHALL BE DISRUPTED FOR MORE THAN TWO HOURS IN ONE DAY.
- PRV SHALL BE LOCATED DIRECTLY DOWNSTREAM OF THE METER OR BACKFLOW ASSEMBLY, IF INSTALLED. RESPONSIBILITY FOR PROPER INSTALLATION SHALL BE THAT OF THE CONTRACTOR. MAINTENANCE AND OPERATION OF THE VALVE SHALL BE THAT OF THE PROPERTY OWNER.

PRESSURE REDUCING VALVE (PRV)

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2023 STANDARD WATER DETAILS

21

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EDGE RESTRAINT

RED CHARCOAL HOLLAND CONCRETE PAVERS

SAND BASE

CRUSHED ROCK (MATCH EX.-MIN. 6")

ATB IN SELECT LOCATIONS (MATCH EX.-MIN. 3")

GEOTEXTILE FABRIC

SUBGRADE

MATCH EXISTING DEPTH (MIN. AS SHOWN)

1 BRICK PAVER ROADWAY RESTORATION

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DOMESTIC

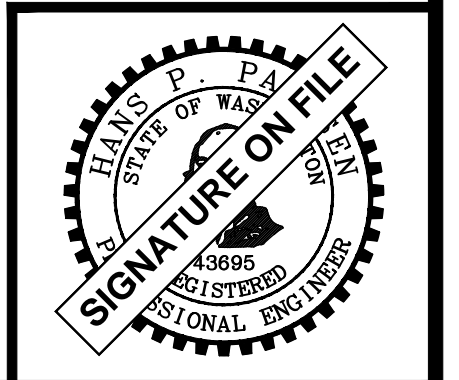
FIRE

DCVA

COMBINED METER

2 COMBINING DOMESTIC AND FIRE METERS INTO ONE SERVICE METER

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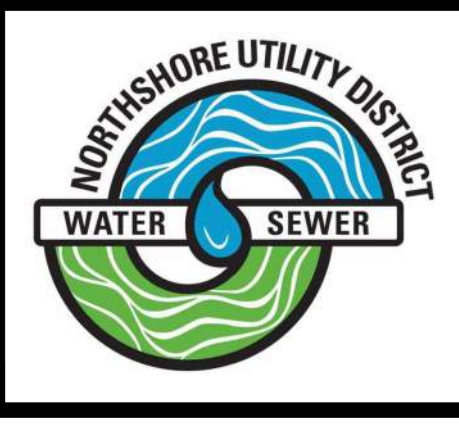
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