

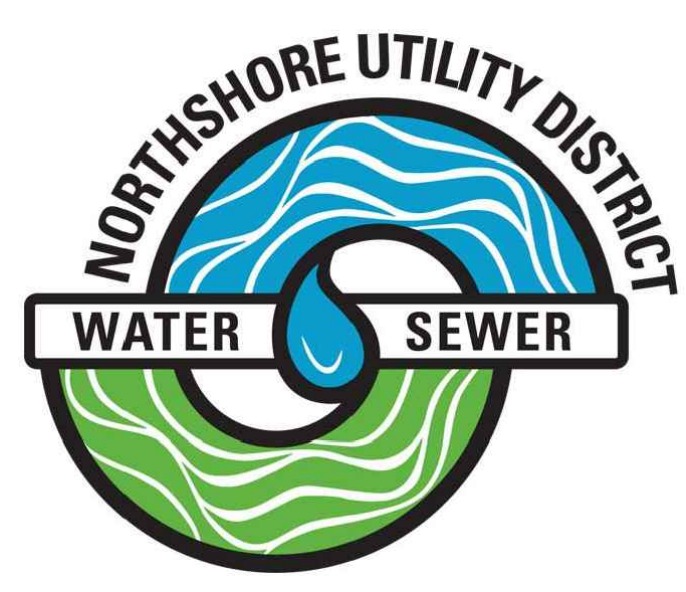
NORTHSHORE UTILITY DISTRICT

King County, Washington

CONTRACT C2106

SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT

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PACE Engineers
11255 Kirkland Way, Suite 300
Kirkland, WA 98033
p. 425.827.2014
www.paceengrs.com

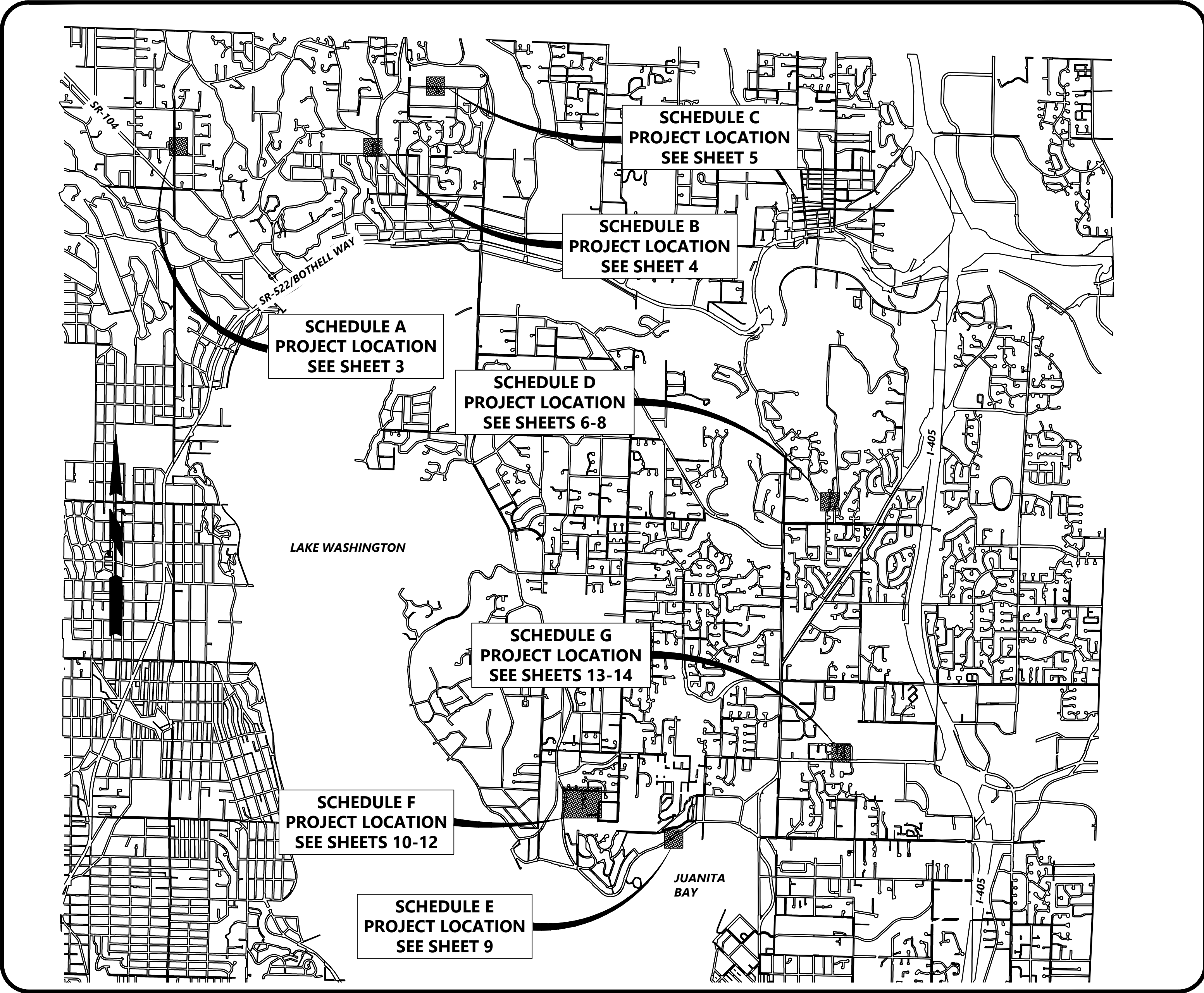
BID SET

PACE QA/QC REVIEW
THESE DOCUMENTS HAVE BEEN REVIEWED BY:
NAME: H.P. PAULSEN DATE: SEP 2025

TRUDY C. ROLLA President of the Board
MATT BREYSSE Secretary of the Board
D. BRUCE GARDINER Commissioner
SUZANNE GREATHOUSE Commissioner
THOMAS D. MORTIMER Commissioner
ETHAN MAIEFSKI General Manager

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VICINITY MAP
1"=2500'

C2106

SHEET
1 OF 25

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		RIGHT OF WAY LINE
		DITCH CENTERLINE
		SIDE SLOPE
		FIRE DEPARTMENT CONNECTION
		DOUBLE CHECK VALVE
		FIRE PROTECTION LINE
		SANITARY SEWER LINE
		STORM DRAIN LINE
		STORM DRAIN CULVERT
		SWALE OR DITCH
		GAS LINE
		UNDERGROUND POWER LINE
		OVERHEAD POWER LINE
		TELEPHONE LINE
		CABLE LINE
		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 NORTHSORE 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 NORTHSORE 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:

NAD 83/11, WASHINGTON COORDINATE SYSTEM NORTH ZONE. BASED ON GPS MEASUREMENTS UTILIZING THE VIRTUAL REFERENCE NETWORK

VERTICAL DATUM:

NAVD 88 BASED ON GPS MEASUREMENTS UTILIZING THE VIRTUAL REFERENCE NETWORK AND GEOID 2012A MODEL.

TOPOGRAPHIC MAPPING:

THIS TOPOGRAPHIC SURVEY DRAWING ACCURATELY PRESENTS SURFACE FEATURES LOCATED DURING THE COURSE OF THIS SURVEY. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED SOLELY UPON INFORMATION PROVIDED BY OTHERS AND PACE ENGINEERS, INC. DOES NOT ACCEPT RESPONSIBILITY OR ASSUME LIABILITY FOR THEIR ACCURACY OR COMPLETENESS. CONTRACTOR/ENGINEERS SHALL VERIFY EXACT SIZE AND LOCATION PRIOR TO CONSTRUCTION.

CALL FOR LOCATE: UTILITY LOCATION SERVICE: 811

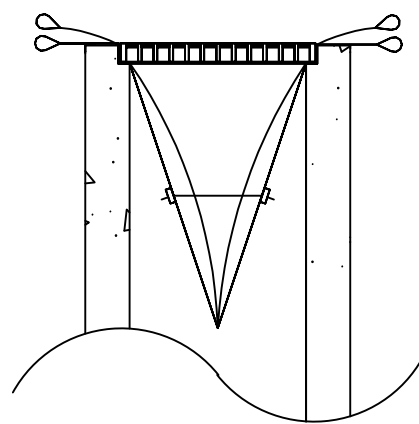
CONTOUR INTERVAL: TWO-FOOT (2') CONTOURS

BENCHMARKS:

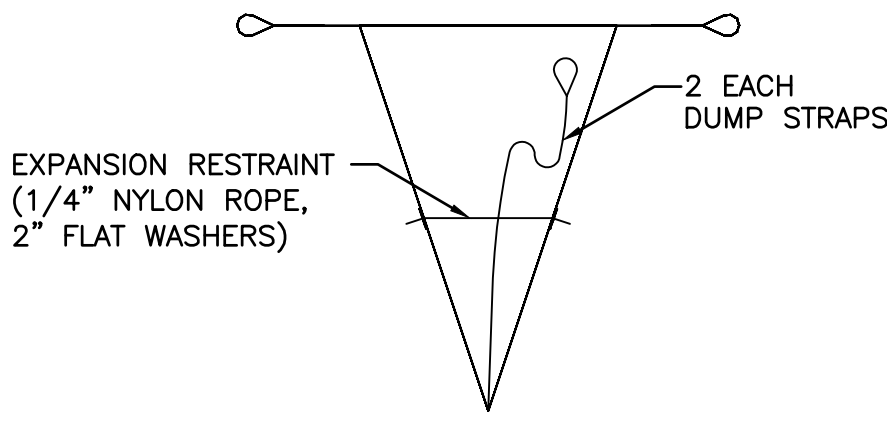
SCHEDULE A CONTROL TABLE				
POINT	RAW DESCRIPTION	ELEVATION	NORTHING	EASTING
TBM	NAIL W/WASHER	154.62	283145.8520	1281716.1550
TBM 2	NAIL W/ WASHER	159.59	283125.4240	1281985.9400
SCHEDULE B CONTROL TABLE				
POINT	RAW DESCRIPTION	ELEVATION	NORTHING	EASTING
TBM	MDN IN CASE	155.393	282775.1754	1288394.3910
TBM 2	MDN IN CASE	163.986	283105.1519	1288395.1890
SCHEDULE C CONTROL TABLE				
POINT	RAW DESCRIPTION	ELEVATION	NORTHING	EASTING
TBM	MDN IN CASE	210.704	285034.6480	1290580.5343
TBM 2	NAIL W/WASHER	189.703	285241.9301	1290562.5323
SCHEDULE D CONTROL TABLE				
POINT	RAW DESCRIPTION	ELEVATION	NORTHING	EASTING
TBM	MDN IN CASE	306.961	271461.1660	1303857.1491
TBM 2	MDN IN CASE	309.280	271488.5345	1303750.5976
TBM 3	MDN IN CASE	291.256	271321.4288	1303797.1174
TBM 4	MDN IN CASE	283.173	271263.7665	1303766.4549
SCHEDULE E CONTROL TABLE				
POINT	RAW DESCRIPTION	ELEVATION	NORTHING	EASTING
TBM	NAIL/YELLOW CAP	32.949	259775.0935	1298451.8991
TBM 2	REBAR/CAP	31.278	259651.7693	1298333.5683
SCHEDULE F CONTROL TABLE				
POINT	RAW DESCRIPTION	ELEVATION	NORTHING	EASTING
TBM	MDN IN CASE	336.838	261397.1100	1295455.5880
TBM 2	MDN IN CASE	329.667	261207.8250	1295449.3834
TBM 3	MDN IN CASE	329.005	261147.5929	1295468.0208
TBM 4	MDN IN CASE	322.758	260837.0657	1295457.8735
SCHEDULE G CONTROL TABLE				
POINT	RAW DESCRIPTION	ELEVATION	NORTHING	EASTING
1	MDN IN CASE	140.22	262940.4610	1304236.3878
2	MAG NAIL W/W	155.42	262451.0542	1304208.7793
3	MAG NAIL W/W	148.03	262625.8667	1304243.3349
4	MDN IN CASE	147.98	262619.9335	1304227.5508
5	MDN IN CASE	148.76	262621.4487	1304146.4427

TEMPORARY EROSION AND SEDIMENTATION CONTROL NOTES

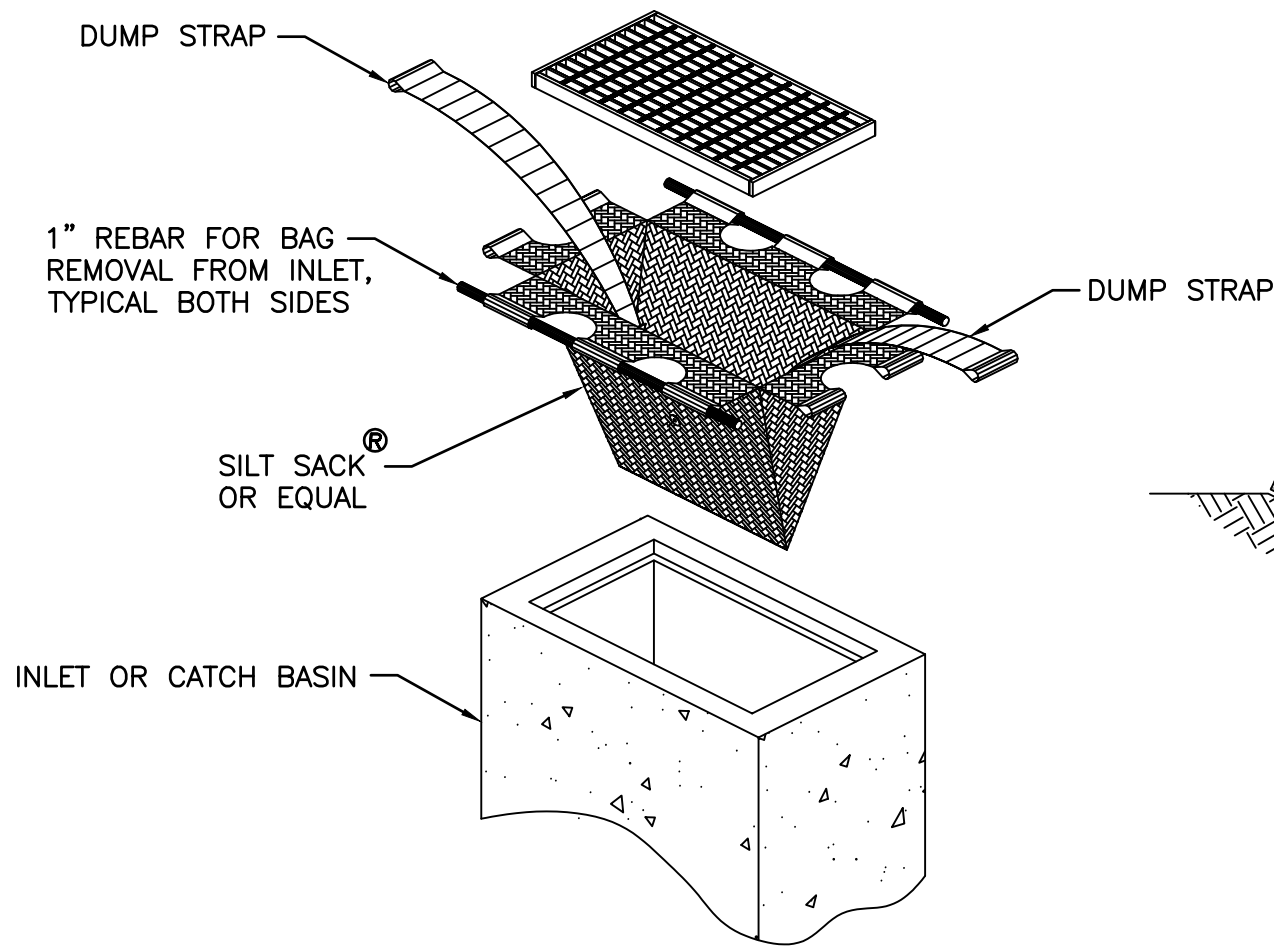
- THE TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) FACILITIES SHALL BE IMPLEMENTED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. MAINTENANCE, REPLACEMENT, AND UPGRADING 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.



INSTALLATION DETAIL

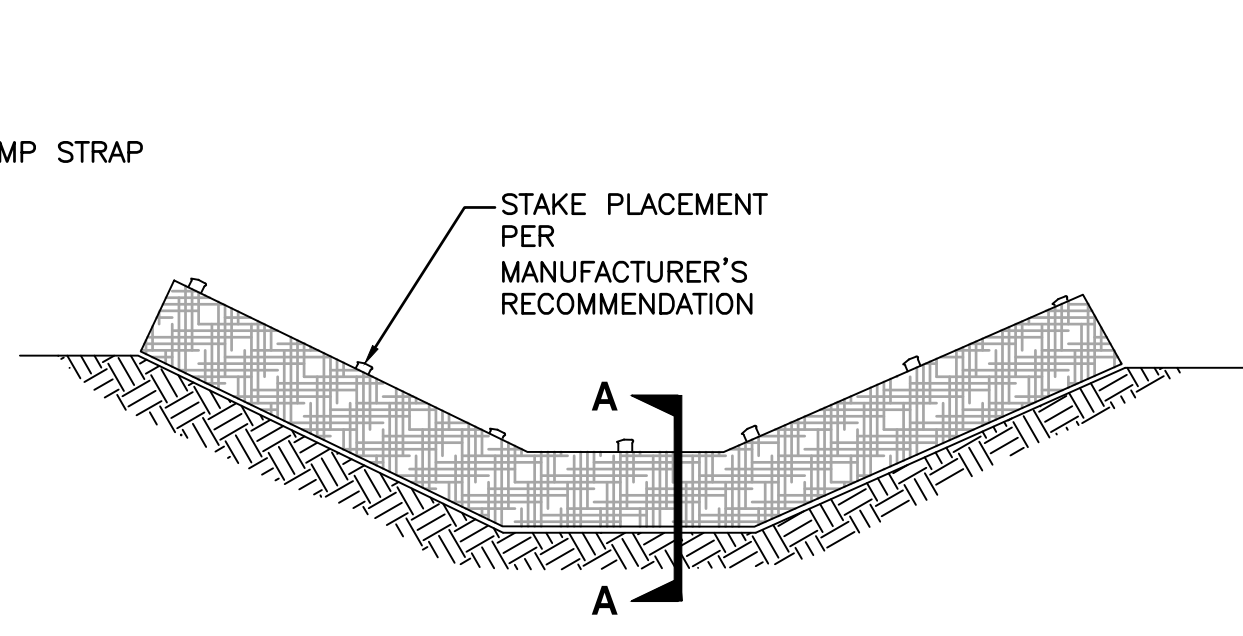


BAG DETAIL

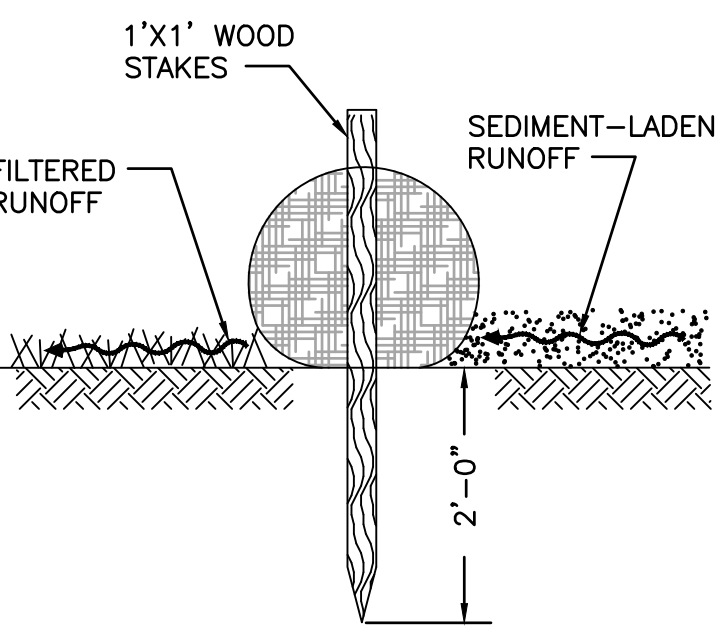


STORM DRAIN INLET PROTECTION

NOT TO SCALE



PLACEMENT OF STRAW WATTLE



CROSS SECTION A-A

STRAW WATTLE DAM

NOT TO SCALE

REFER TO CITY OF KIRKLAND NOTES AND DETAILS FOR SCHEDULES D-F

PRINT IN COLOR

NOTES

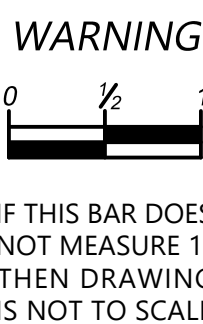
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.
- THE FILTER FABRIC 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 SECURELY 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.

HIGH VISIBILITY FILTER FABRIC FENCE

NOT TO SCALE



NO	BY	APPD	REVISION	DATE
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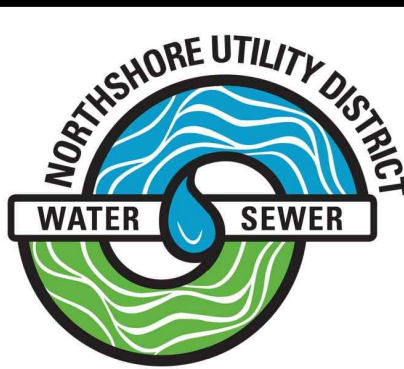


IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



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DESIGNED BY	MB
DRAWN BY	AMJ
CHECKED BY	HPP
APPROVAL	HPP
DATE	----



NORTHSORE UTILITY DISTRICT

6830 NE 185th St. P.O. Box 82489
Kenmore, WA 98028-2684 Kenmore, WA 98028-2684

Ph: (425) 398-4400 | Fax: (425) 398-4430 | www.nud.net

CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT

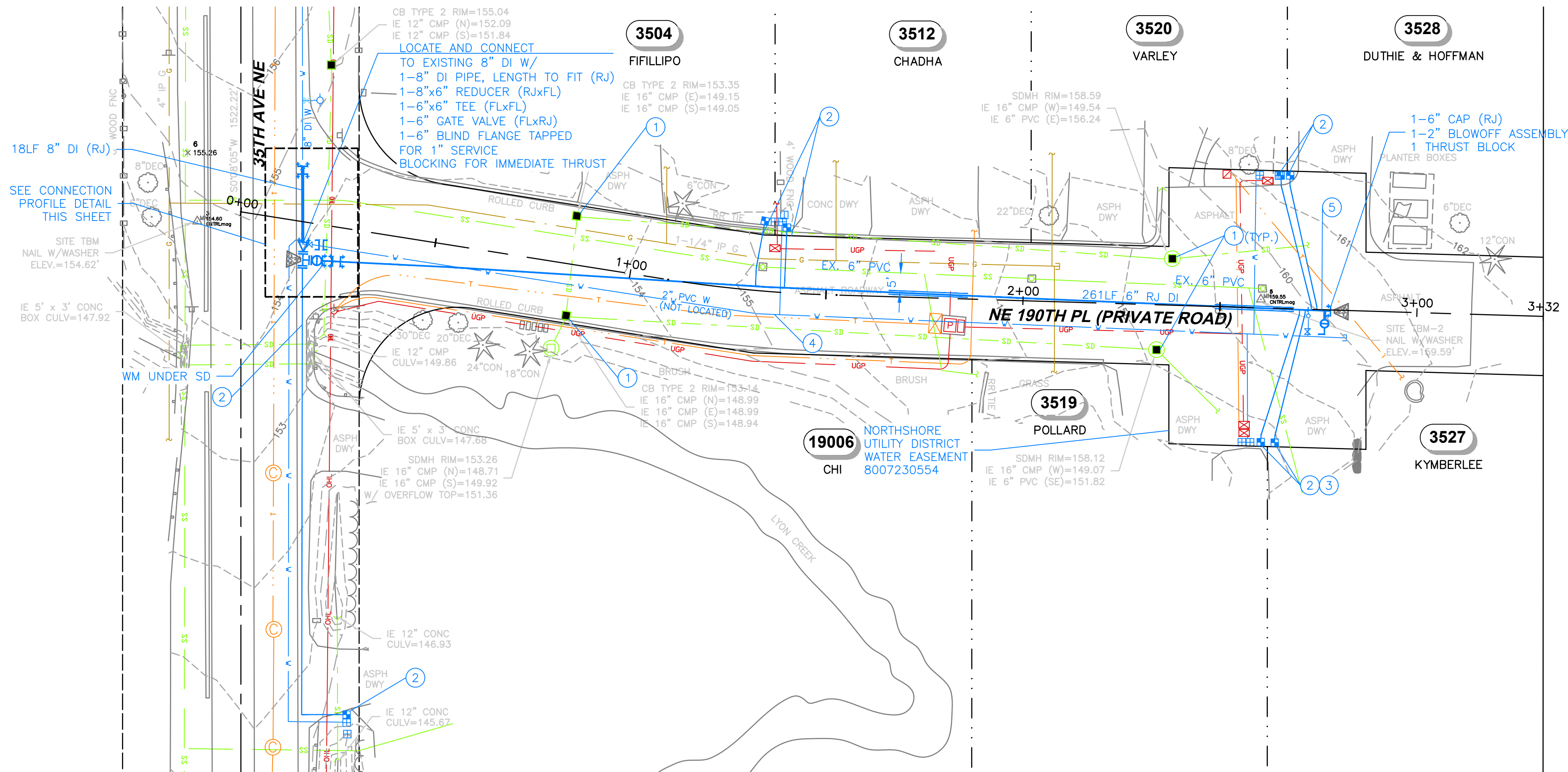
GENERAL NOTES AND LEGEND

BASE MAP N/A

C2106

SHEET

2 OF 25



ORDER OF WORK
& RESTRICTIONS

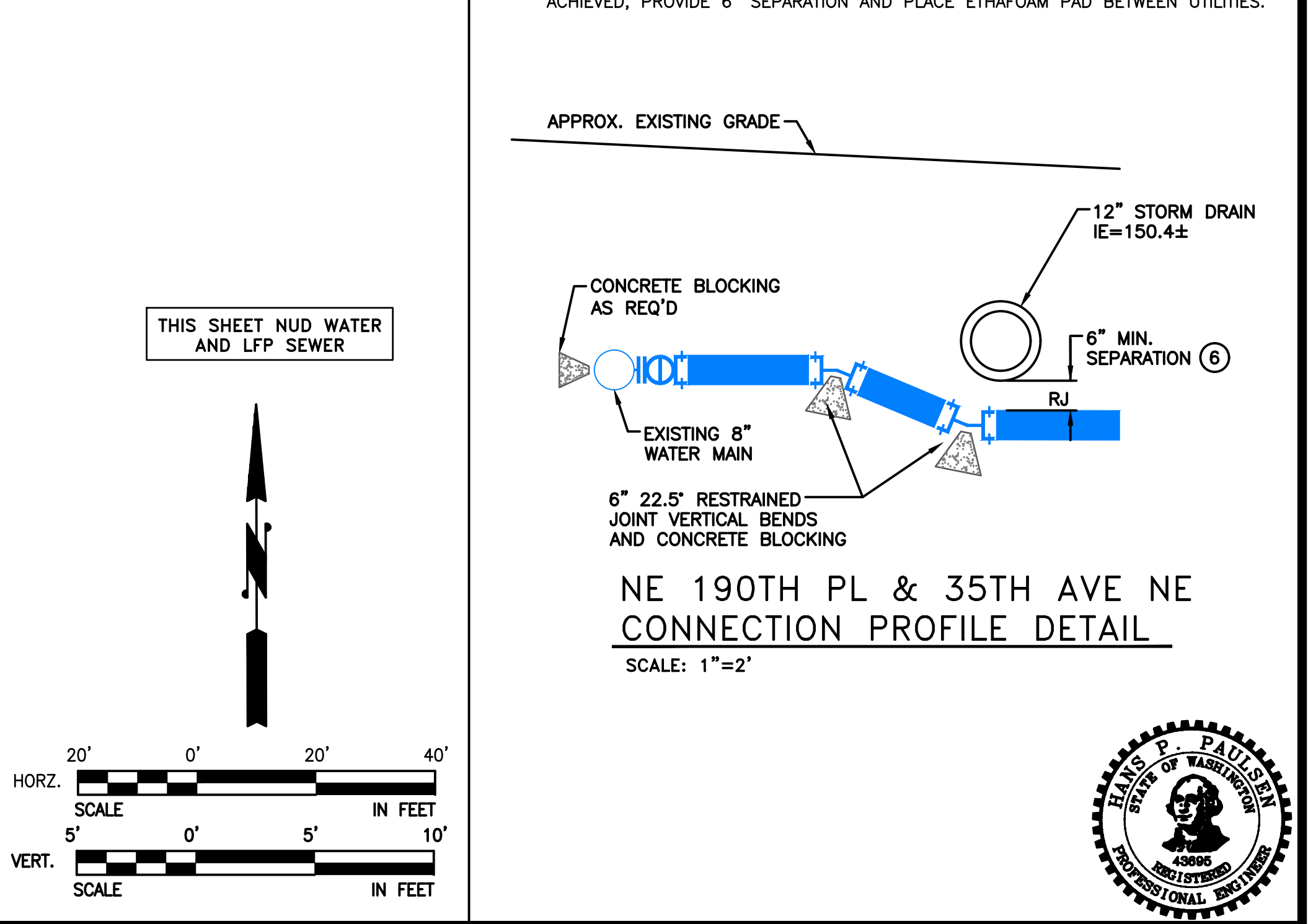
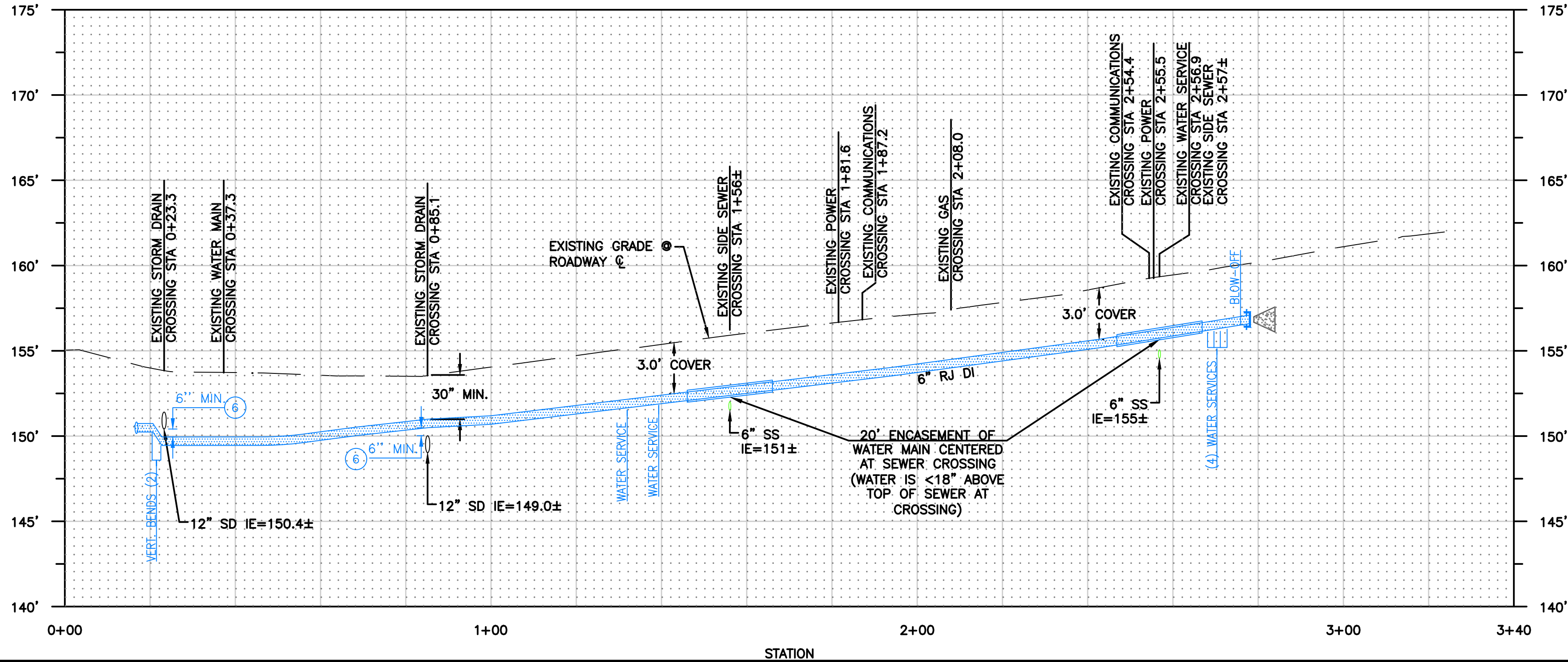
- SCHEDULE F - 120/80 WATER MAIN REPLACEMENT SHALL BE STARTED FIRST AND COMPLETED BEFORE WORK CAN BEGIN ON ANOTHER SCHEDULE, UNLESS THE CONTRACTOR HAS SUFFICIENT RESOURCES TO ADEQUATELY STAFF AND COMPLETE MULTIPLE SCHEDULES OF WORK SIMULTANEOUSLY.
- SCHEDULE A - 190/35 WATER MAIN REPLACEMENT SHALL BEGIN AFTER OCTOBER 1, 2025 AND BE COMPLETED BY FEBRUARY 28, 2026.
- FOR THE REMAINING SCHEDULES OF WORK, THE CONTRACTOR MAY CHOOSE THE ORDER OF WORK.
- EACH SCHEDULE OF WORK MUST BE COMPLETED AND RESTORED TO THE SATISFACTION OF THE DISTRICT BEFORE THE CONTRACTOR WILL BE ALLOWED TO COMMENCE WORK ON THE SUBSEQUENT SCHEDULES.

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 (RJ) PIPE WITH FIELD LOK GASKETS (OR APPROVED EQUAL) PER NUD STANDARD SPECIFICATIONS. PROVIDE MIN. 5' CLEARANCE FROM EXISTING SEWER. WHERE FEASIBLE AND WITH DISTRICT APPROVAL, MAINTAIN 3' CLEARANCE FROM EXISTING WATER MAIN.
- LOCATION AND DEPTH OF EXISTING WATER MAIN SHALL BE VERIFIED PRIOR TO CONNECTION.
- CONSTRUCT NEW WATER MAIN BELOW EXISTING WATER MAIN UNLESS OTHERWISE NOTED. TYPICAL COVER FOR WATER MAIN IS 3.5' UNLESS OTHERWISE NOTED.
- POTHOLE ALL UTILITY CROSSINGS (WATER, SEWER, POWER, TELEPHONE, GAS, ETC.) AT LEAST 6 WORKING DAYS PRIOR TO COMMENCING WATER MAIN INSTALLATION IN ORDER TO CONFIRM THE VERTICAL LOCATION AS SHOWN.
- MINIMUM 1' VERTICAL CLEARANCE REQUIRED BETWEEN UTILITIES. MINIMUM 18" SEPARATION BETWEEN WATER AND SEWER (WATER OVER SEWER). IF VERTICAL CLEARANCE CANNOT BE OBTAINED, INSTALL ETHAFOAM PAD BETWEEN 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 MAY BE REQUIRED AT THE TIME OF RECONNECTION IF AN EXISTING ONE IS PRESENT ON THE BACKSIDE. SEE SPECIFICATIONS FOR PRESSURE TESTING REQUIREMENTS. SEE STANDARD DETAIL #21.
- WATER SERVICE INSTALLATION MAY BE COMPLETED BY EITHER OPEN TRENCH OR TRENCHLESSLY. MEANS AND METHODS FOR WATER SERVICE INSTALLATION SHALL BE DETERMINED BY THE CONTRACTOR. TRENCHLESS WILL STILL REQUIRE POTHOLING EXISTING UTILITIES TO PREVENT DAMAGE IN ACCORDANCE WITH RCW 19.122. POTHOLING FOR TRENCHLESS METHODS WILL BE INCIDENTAL.
- CONTRACTOR TO MAKE CONNECTION TO PRIVATE LINE AND COORDINATE TRANSITION OF SERVICE TO NEW WATER MAIN WITH NORTHSHORE UTILITY DISTRICT IN ORDER TO RESTORE WATER SERVICE WITH MINIMAL DISRUPTION.

CONSTRUCTION NOTES

- CATCH BASIN AND INLET SEDIMENTATION PROTECTION REQUIRED, SEE SHEET 23 FOR DETAIL INFORMATION.
- INSTALL NEW 1" SERVICE PER THE STANDARD WATER DETAILS AND THE STANDARD WATER SERVICE RECONNECTION DETAIL ON SHEET 20. LOCATE AND CONNECT TO EXISTING CUSTOMER WATER SERVICE BACKSIDE. FINAL METER LOCATIONS TO BE ADJUSTED IN THE FIELD, COORDINATE WITH NUD FIELD REPRESENTATIVE.
- REMOVE AND REINSTALL KEYSTONE WALL AND REMOVE AND RELOCATE ROCK AS DIRECTED BY HOMEOWNER
- ABANDON IN PLACE THE EXISTING WATER LINE AFTER NEW DI WATER LINE CONNECTIONS HAVE BEEN CONSTRUCTED. THE EXISTING WATER MAIN SHALL BE DEACTIVATED AND REMAIN AS SURPLUS FACILITIES OF THE DISTRICT. CLOSE ALL BRANCH VALVES AND LEAVE IN-LINE VALVES OPEN. REMOVE AND DISPOSE OF EXISTING BLOW-OFF ASSEMBLIES. REMOVE AND DISPOSE OF EXISTING VALVE BOXES. THE PIPE SHALL BE CAPPED WATER-TIGHT WITH FITTING IN ACCORDANCE WITH THE SPECIFICATIONS.
- FURNISH AND INSTALL 2" BLOW-OFF ASSEMBLY PER NORTHSHORE UTILITY DISTRICT STANDARD WATER DETAIL, SEE SHEET 20.
- MINIMUM 1' VERTICAL CLEARANCE (TYP.). IF MINIMUM CLEARANCE CANNOT BE ACHIEVED, PROVIDE 6" SEPARATION AND PLACE ETHAFOAM PAD BETWEEN UTILITIES.

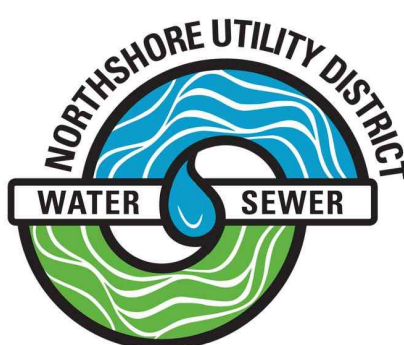


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WARNING
0 1/2 1
IF THIS BAR DOES
NOT MEASURE 1"
THEN DRAWING IS
NOT TO SCALE

PACE
PACE Engineers
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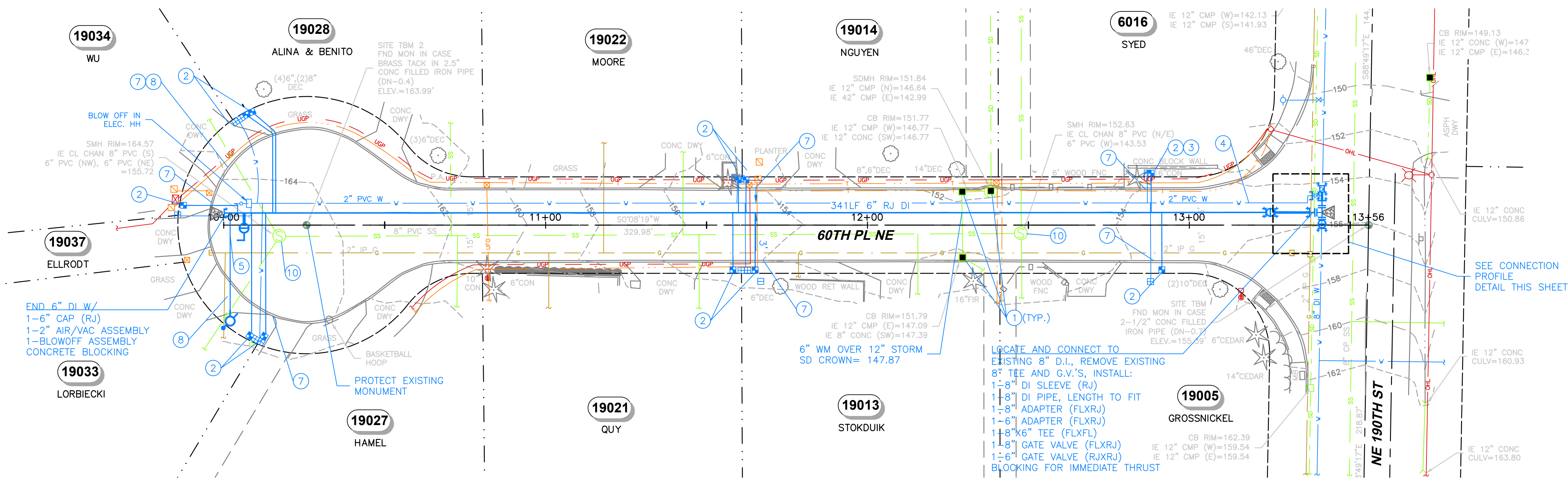
SCHEDULE A - 190 / 35
WATER MAIN REPLACEMENT

BASE MAP B1

C2106

SHEET

3 OF 25



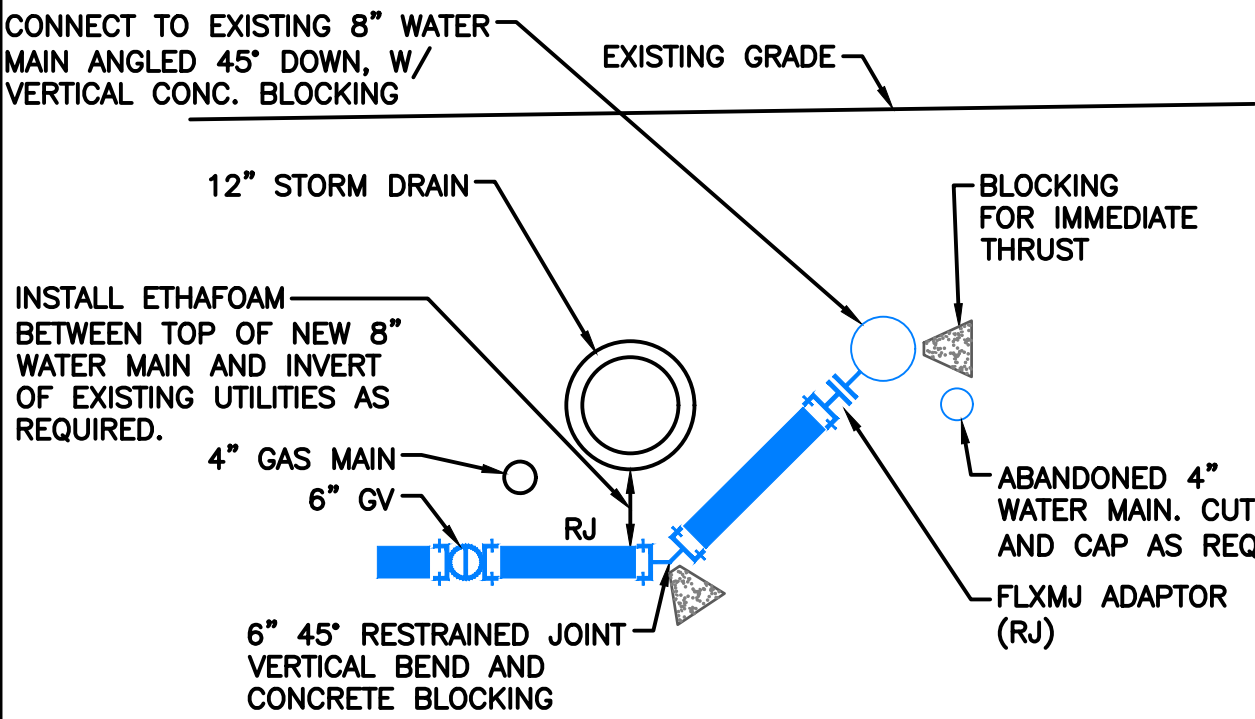
GENERAL NOTES

PRINT IN COLOR

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- 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 (RJ) PIPE WITH FIELD LOK GASKETS (OR APPROVED EQUAL) PER NUD STANDARD SPECIFICATIONS. PROVIDE MIN. 5' CLEARANCE FROM EXISTING SEWER. WHERE FEASIBLE AND WITH DISTRICT APPROVAL, MAINTAIN 3' CLEARANCE FROM EXISTING WATER MAIN.
- LOCATION AND DEPTH OF EXISTING WATER MAIN SHALL BE VERIFIED PRIOR TO CONNECTION.
- CONSTRUCT NEW WATER MAIN BELOW EXISTING WATER MAIN UNLESS OTHERWISE NOTED. TYPICAL COVER FOR WATER MAIN IS 3.5' UNLESS OTHERWISE NOTED.
- POTHOLE ALL UTILITY CROSSINGS (WATER, SEWER, POWER, TELEPHONE, GAS, ETC.) AT LEAST 6 WORKING DAYS PRIOR TO COMMENCING WATER MAIN INSTALLATION IN ORDER TO CONFIRM THE VERTICAL LOCATION AS SHOWN.
- MINIMUM 1' VERTICAL CLEARANCE REQUIRED BETWEEN UTILITIES. MINIMUM 18" SEPARATION BETWEEN WATER AND SEWER (WATER OVER SEWER). IF VERTICAL CLEARANCE CANNOT BE OBTAINED, INSTALL ETHAFOAM PAD BETWEEN 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 MAY BE REQUIRED AT THE TIME OF RECONNECTION IF AN EXISTING ONE IS PRESENT ON THE BACKSIDE. SEE SPECIFICATIONS FOR PRESSURE TESTING REQUIREMENTS. SEE STANDARD DETAIL #21.
- WATER SERVICE INSTALLATION MAY BE COMPLETED BY EITHER OPEN TRENCH OR HOLE HOG. MEANS AND METHODS FOR WATER SERVICE INSTALLATION SHALL BE DETERMINED BY THE CONTRACTOR. TRENCHLESS WILL STILL REQUIRE POTHOLING EXISTING UTILITIES TO PREVENT DAMAGE IN ACCORDANCE WITH RCW 19.122. POTHOLING FOR TRENCHLESS METHODS WILL BE INCIDENTAL.
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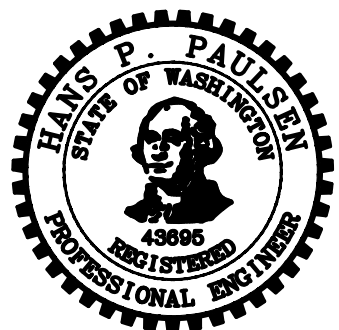
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- VECTOR AROUND ROOTS TO INSTALL SERVICE LINE TO MINIMIZE TREE ROOT DAMAGE.
- ABANDON IN PLACE THE EXISTING WATER LINE AFTER NEW DI WATER LINE CONNECTIONS HAVE BEEN CONSTRUCTED. THE EXISTING WATER MAIN SHALL BE DEACTIVATED AND REMAIN AS SURPLUS FACILITIES OF THE DISTRICT. CLOSE ALL BRANCH VALVES AND LEAVE IN-LINE VALVES OPEN. REMOVE AND DISPOSE OF EXISTING BLOW-OFF ASSEMBLIES. REMOVE AND DISPOSE OF EXISTING VALVE BOXES. THE PIPE SHALL BE CAPPED WATER-TIGHT WITH FITTING IN ACCORDANCE WITH THE SPECIFICATIONS.
- FURNISH AND AIR-VAC ASSEMBLY PER NORTHSORE UTILITY DISTRICT STANDARD WATER DETAIL, SEE SHEET 20.
- MINIMUM 1' VERTICAL CLEARANCE (TYP.). IF MINIMUM CLEARANCE CANNOT BE ACHIEVED, PROVIDE 6" SEPARATION AND PLACE ETHAFOAM PAD BETWEEN UTILITIES.
- REMOVE AND REPLACE EXISTING CURB AND GUTTER TO THE NEAREST EXPANSION JOINT PER SPECIFICATIONS.
- REMOVE AND REPLACE EXISTING DRIVEWAY TO NEAREST EXPANSION JOINT AS SHOWN ON THE PLAN AND PER SPECIFICATIONS.
- REPLACE SEWER MANHOLE FRAME, COVER AND ADJUSTMENT RINGS PER DISTRICT SPECIFICATIONS.
- PROVIDE 6" SEPARATION AND PLACE ETHAFOAM PAD BETWEEN UTILITIES



NE 190TH ST & 60TH PL NE
CONNECTION PROFILE DETAIL

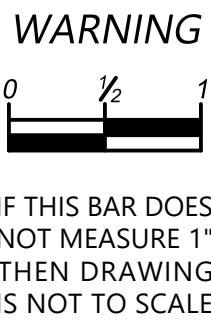
SCALE: 1"=2'



ORDER OF WORK
& RESTRICTIONS

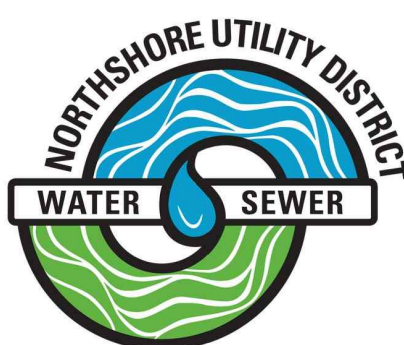
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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT

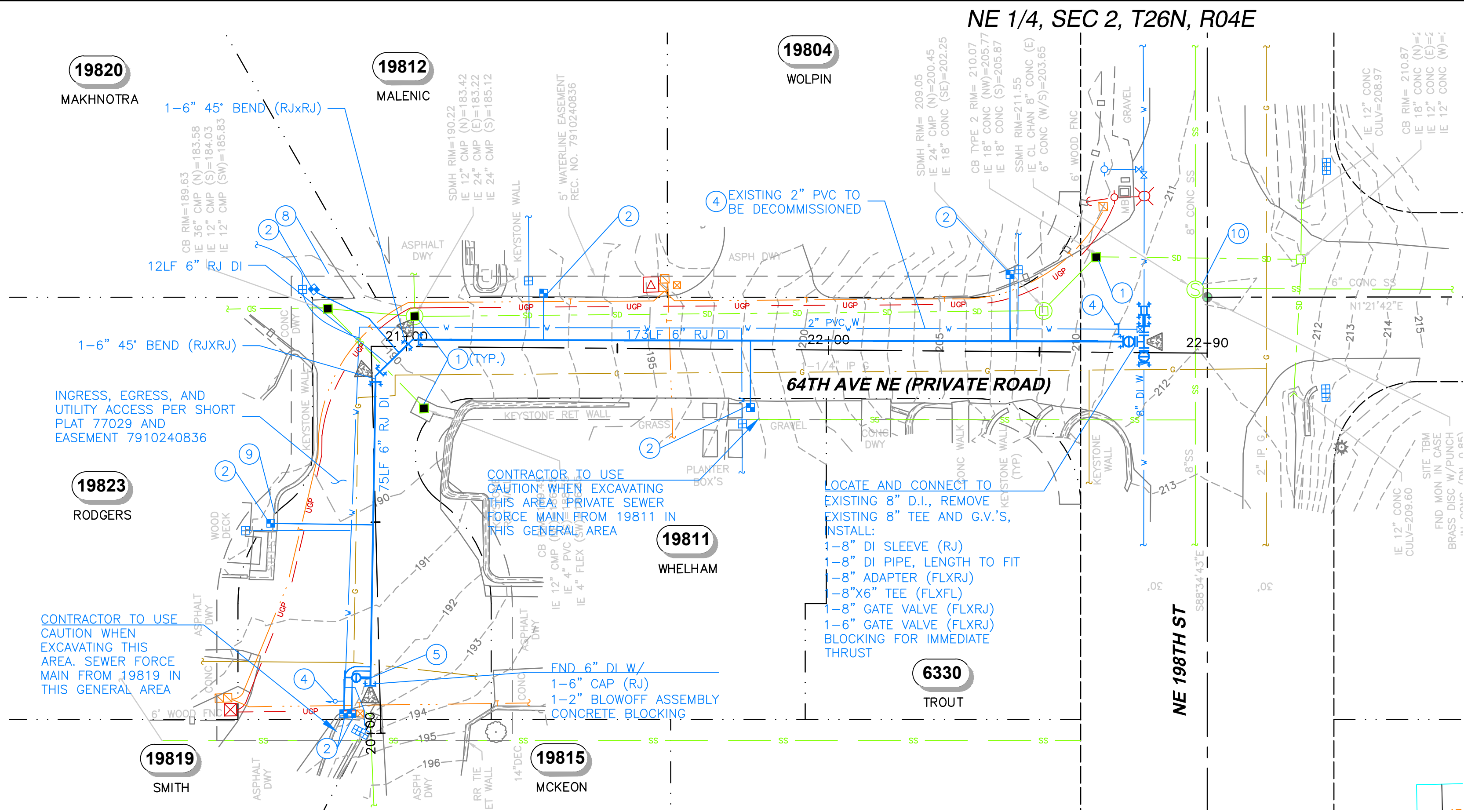
SCHEDULE B - 190 / 60
WATER MAIN REPLACEMENT

BASE MAP B3

C2106

SHEET

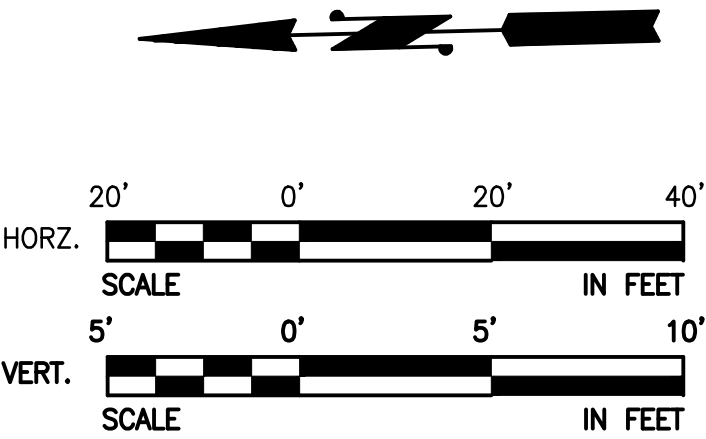
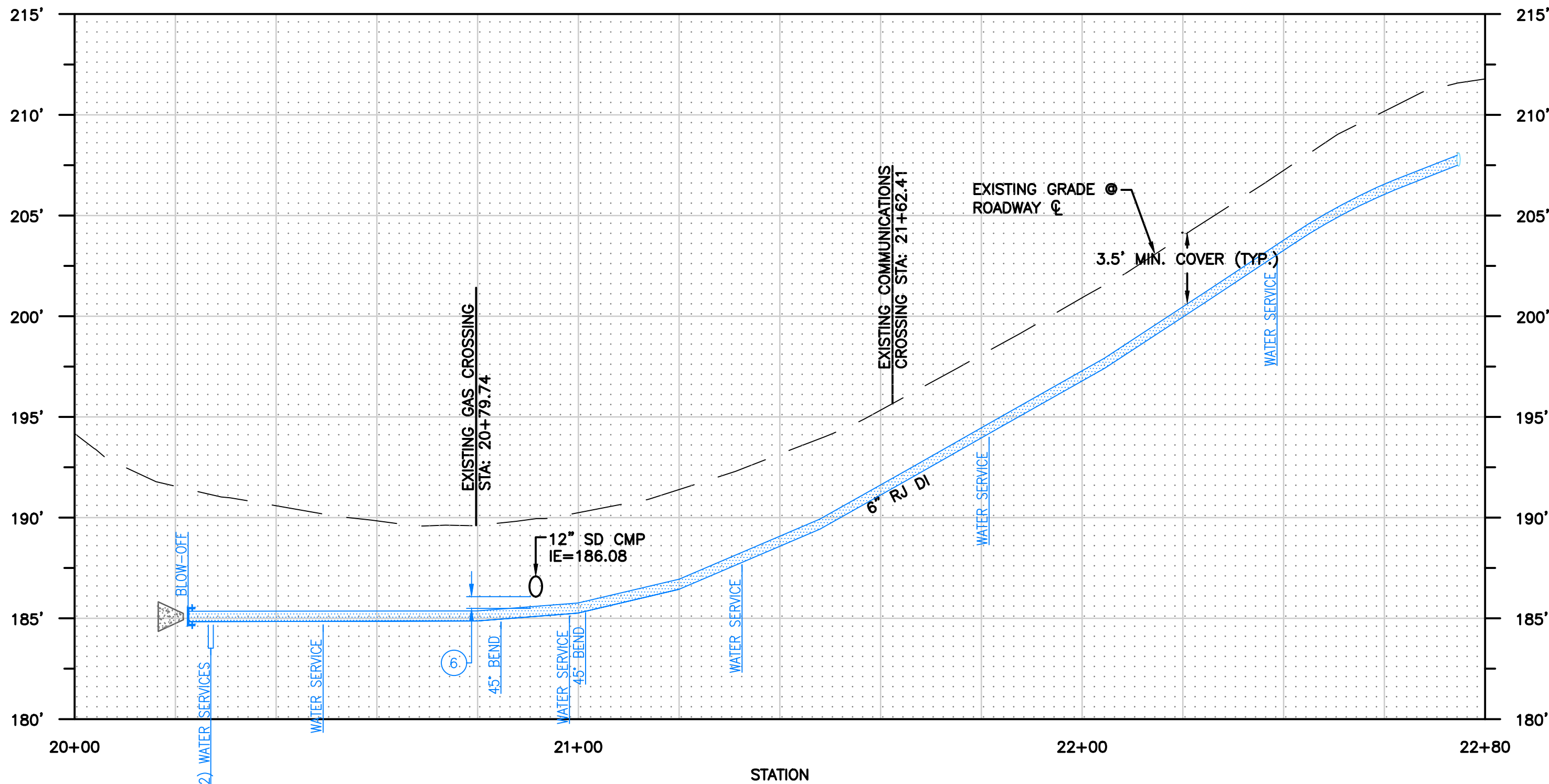
4 OF 25



- ORDER OF WORK & RESTRICTIONS**
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- 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.
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 - LOCATION AND DEPTH OF EXISTING WATER MAIN SHALL BE VERIFIED PRIOR TO CONNECTION.
 - CONSTRUCT NEW WATER MAIN BELOW EXISTING WATER MAIN UNLESS OTHERWISE NOTED. TYPICAL COVER FOR WATER MAIN IS 3.5' UNLESS OTHERWISE NOTED.
 - POTHOLE ALL UTILITY CROSSINGS (WATER, SEWER, POWER, TELEPHONE, GAS, ETC.) AT LEAST 6 WORKING DAYS PRIOR TO COMMENCING WATER MAIN INSTALLATION IN ORDER TO CONFIRM THE VERTICAL LOCATION AS SHOWN.
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 - ALL SERVICE CONNECTIONS ARE ASSUMED TO HAVE A PRIVATE PRV DEVICE ON THE BACKSIDE OF THE WATER. UNLESS OTHERWISE NOTED, A REPLACEMENT PRV DEVICE MAY BE REQUIRED AT THE TIME OF RECONNECTION IF AN EXISTING ONE IS PRESENT ON THE BACKSIDE. SEE SPECIFICATIONS FOR PRESSURE TESTING REQUIREMENTS. SEE STANDARD DETAIL #21.
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 - REMOVE AND REPLACE EXISTING CONCRETE KEYSTONE WALL AND MATCH ORIGINAL CONDITION.
 - REPLACE SEWER MANHOLE FRAME, COVER AND ADJUSTMENT RINGS PER DISTRICT SPECIFICATIONS.



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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT

SCHEDULE C - 198 / 64
WATER MAIN REPLACEMENT

BASE MAP A4

C2106

SHEET

5 OF 25

PROPOSED CONNECTION SEQUENCE FOR SCH. D

THE FOLLOWING CONNECTION SEQUENCE MINIMIZES WATER SERVICE INTERRUPTION TO THE AFFECTED PROPERTIES. THE CONTRACTOR MAY PROPOSE A DIFFERENT CONNECTION AND SEQUENCE PLAN FOR REVIEW BY NUD 3 WEEKS IN ADVANCE OF ANTICIPATED CONNECTION. IF THE CONTRACTOR ELECTS TO PERFORM MULTIPLE CONNECTIONS IN 1 DAY, THE CONTRACTOR MUST HAVE SUFFICIENT LABOR AND EQUIPMENT TO COMPLETE THE CONNECTIONS WITHIN THE WATER SERVICE OUTAGE WINDOW OF 8:00 AM TO 4:00 PM.

IF A PROPERTY MUST HAVE ITS WATER SERVICE INTERRUPTED MULTIPLE TIMES, THE SERVICE INTERRUPTIONS MUST BE SEPARATED BY 1 WEEK.

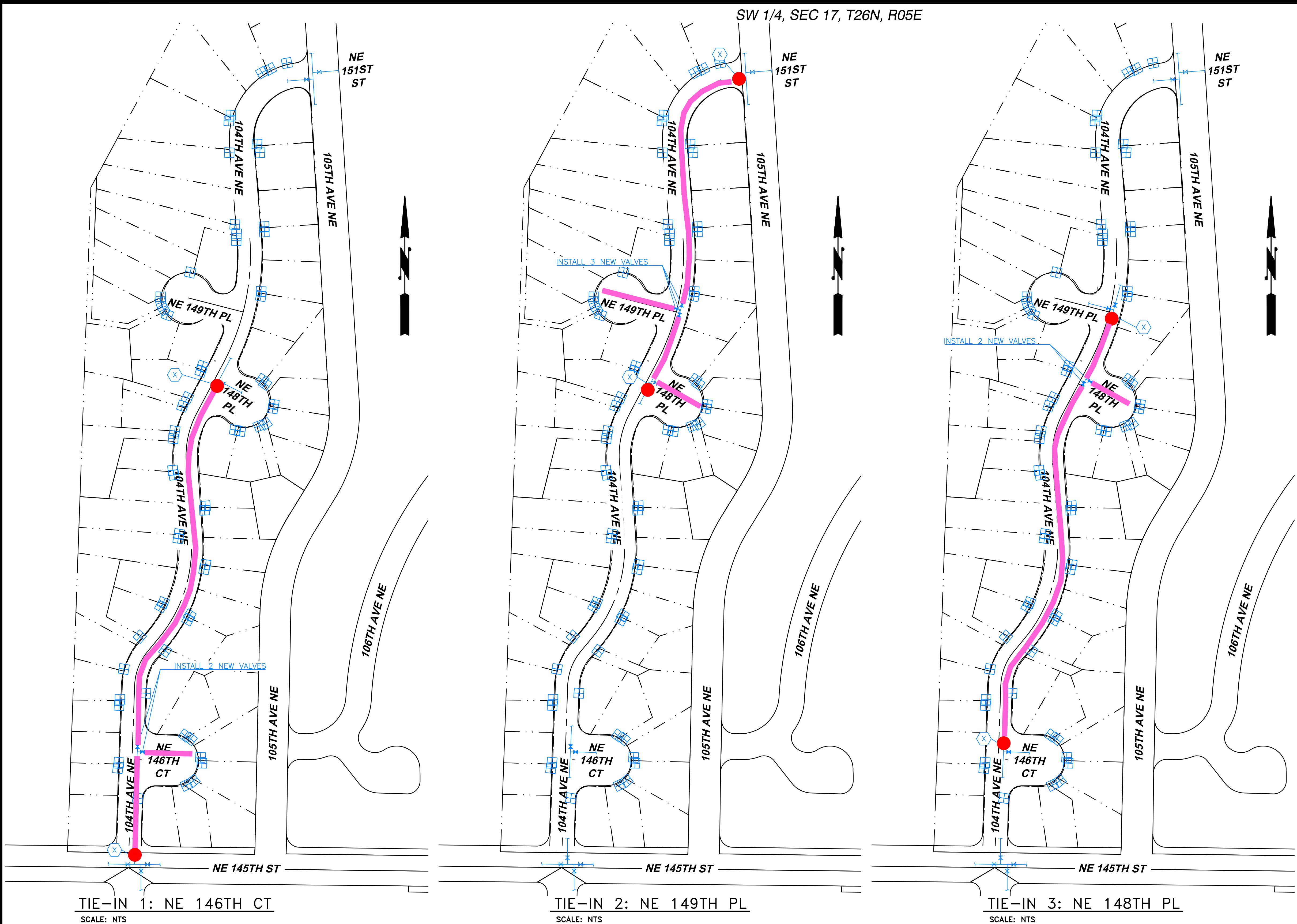
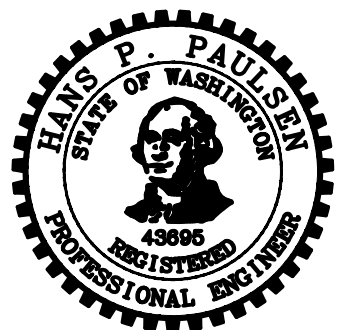
THE PROPOSED WATER CONNECTION SEQUENCE IS AS FOLLOWS AND AS SHOWN ON THE LEFT:

- 1) TIE-IN #1 AT NE 146TH CT
- 2) TIE-IN #2 AT NE 149TH PL
- 3) TIE-IN #3 AT NE 148TH PL

(X) NUD OPERATORS TO CLOSE VALVE DURING TIE-IN.

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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT

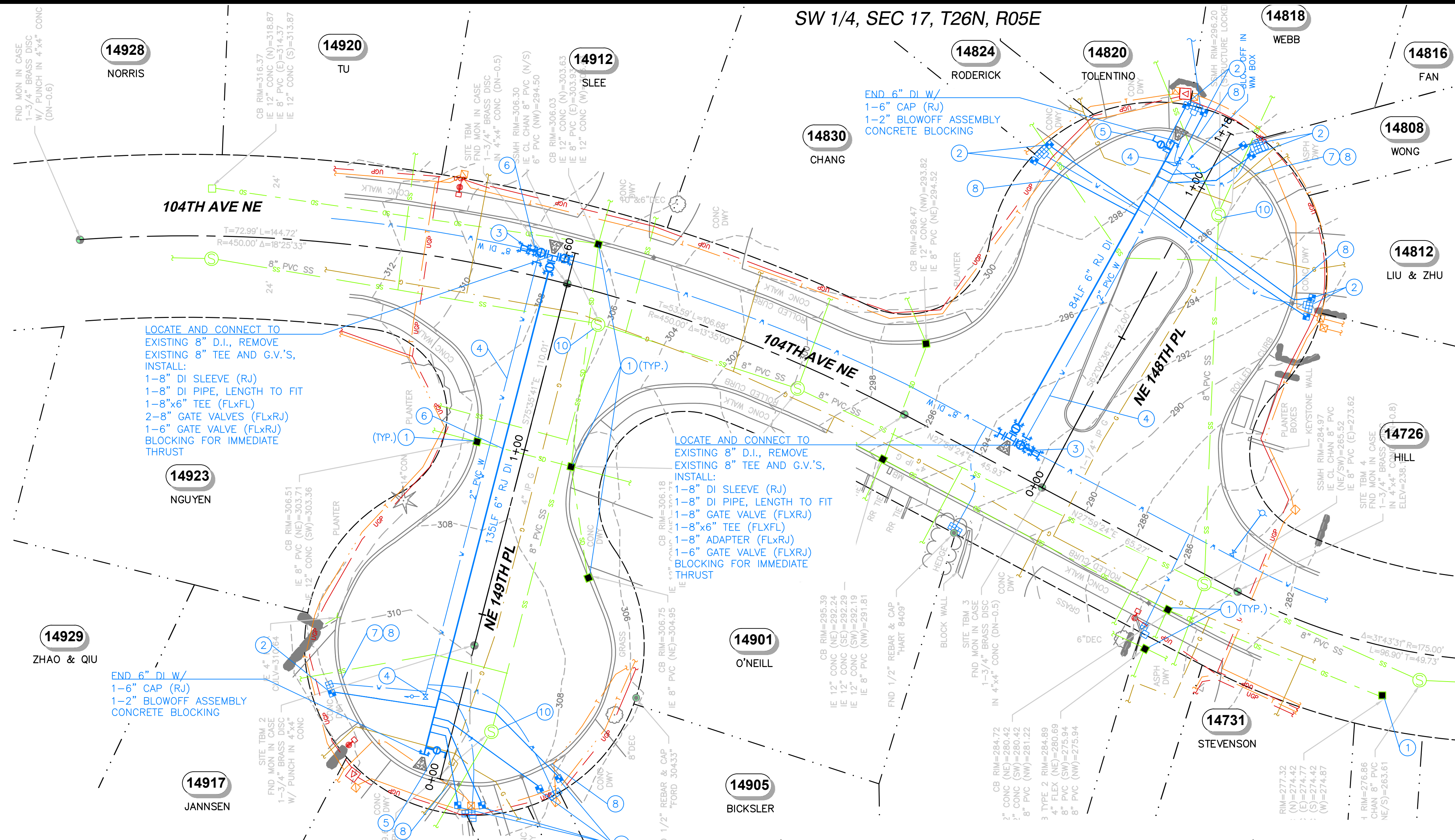
SCHEDULE D - 145 / 104
WATER MAIN REPLACEMENT

BASE MAP F9

C2106

SHEET

6 OF 25

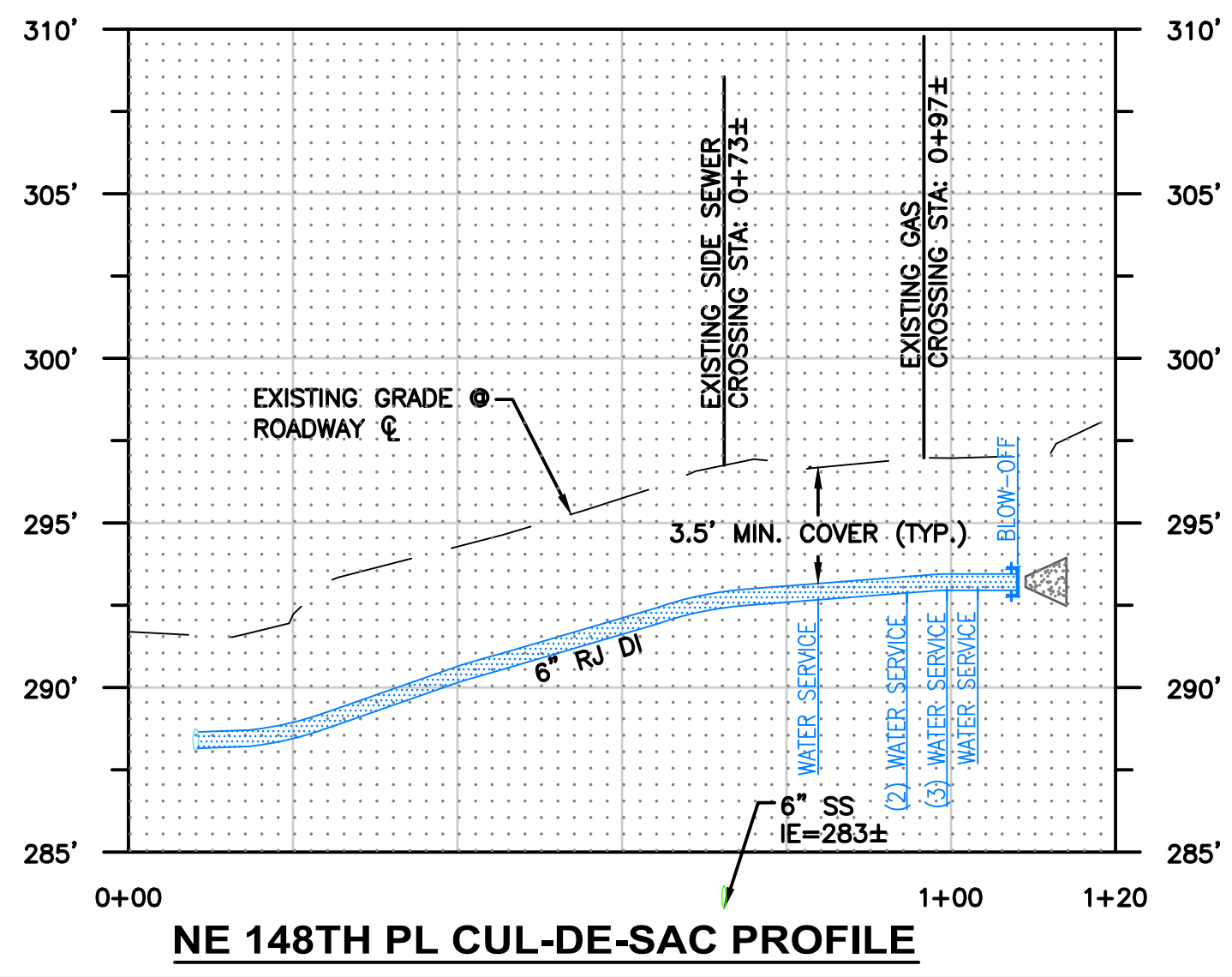
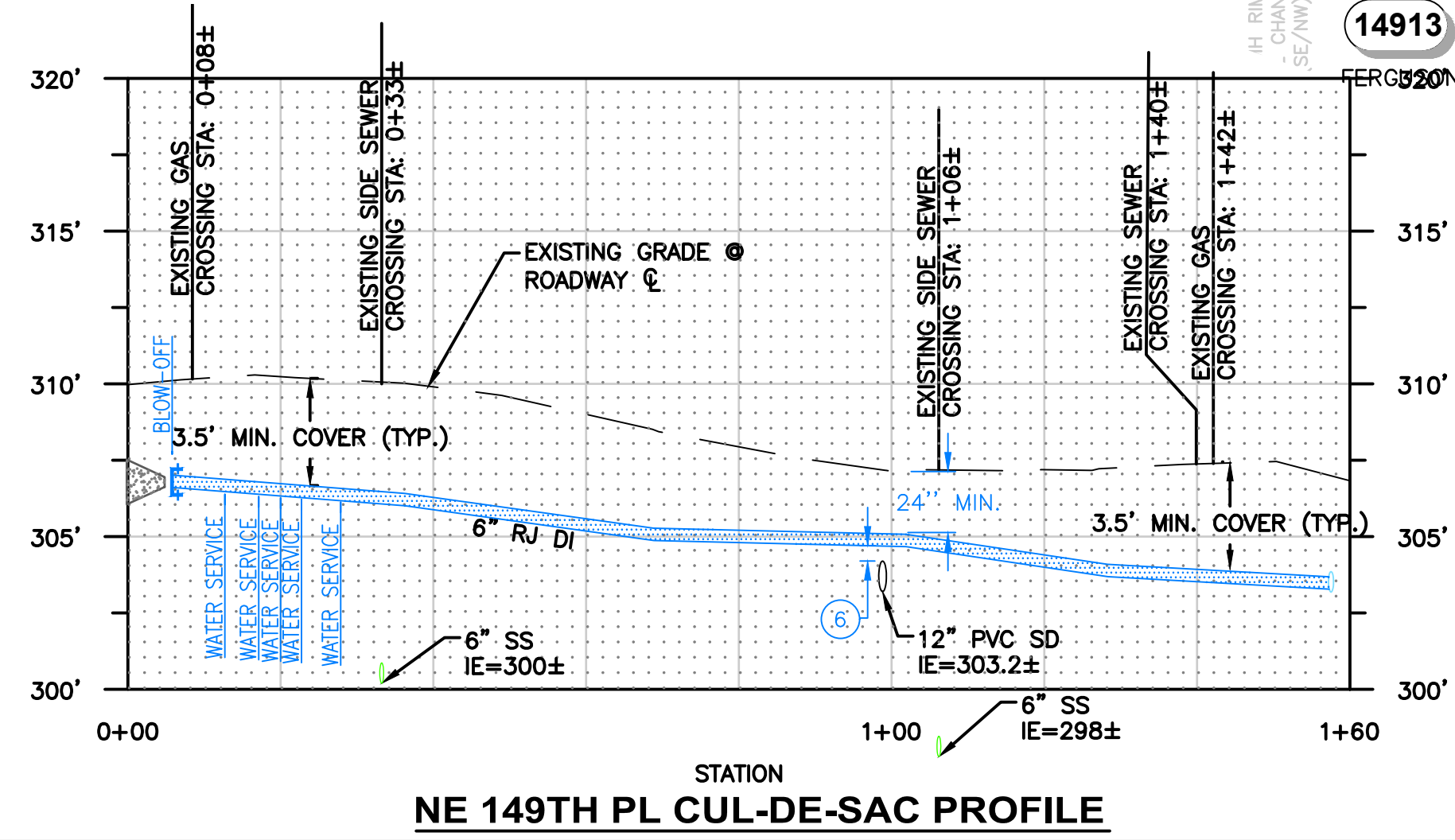


GENERAL NOTES

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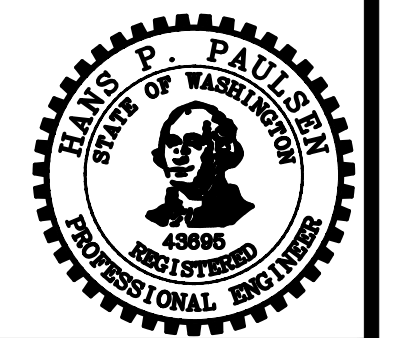
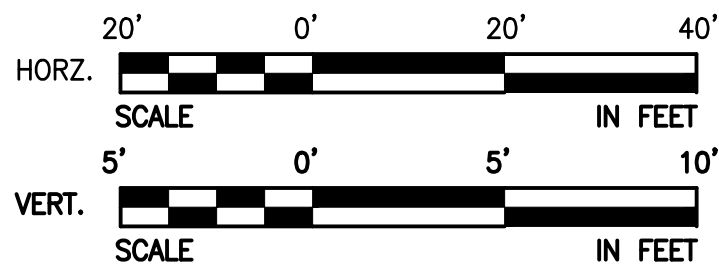
CONTRACT C2106

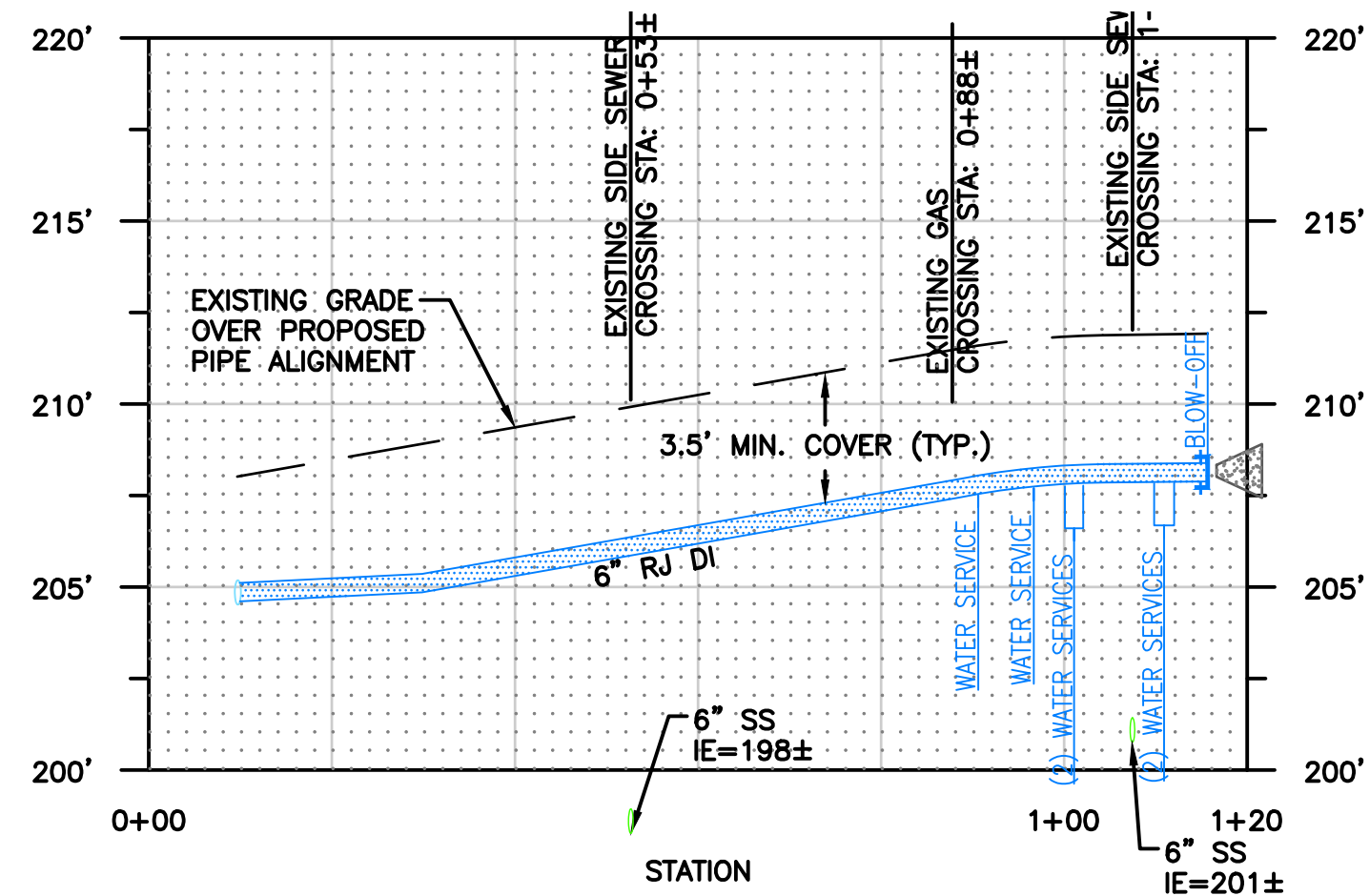
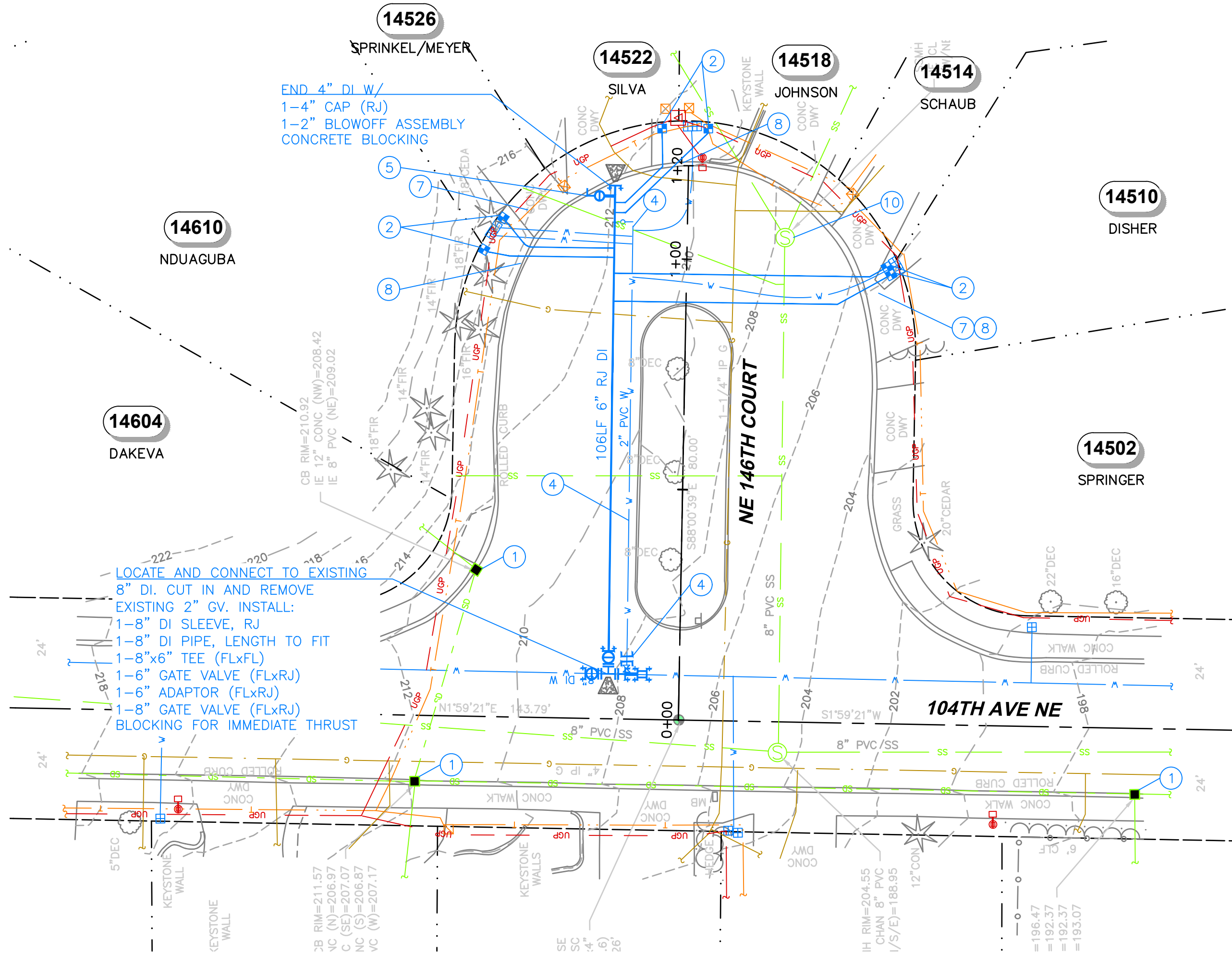
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT

SCHEDULE D - 145 / 104

WATER MAIN REPLACEMENT

BASE MAP F9
C2106
SHEET
7 OF 25



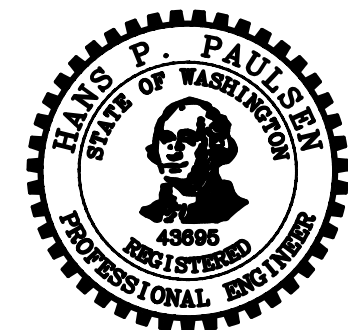
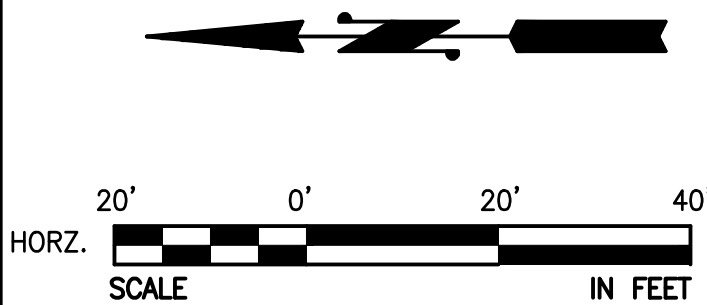


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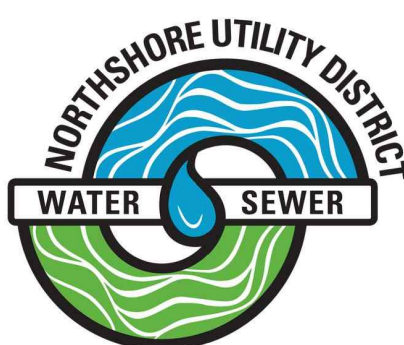


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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT

SCHEDULE D - 145 / 104
WATER MAIN REPLACEMENT

BASE MAP F9

C2106

SHEET

8 OF 25

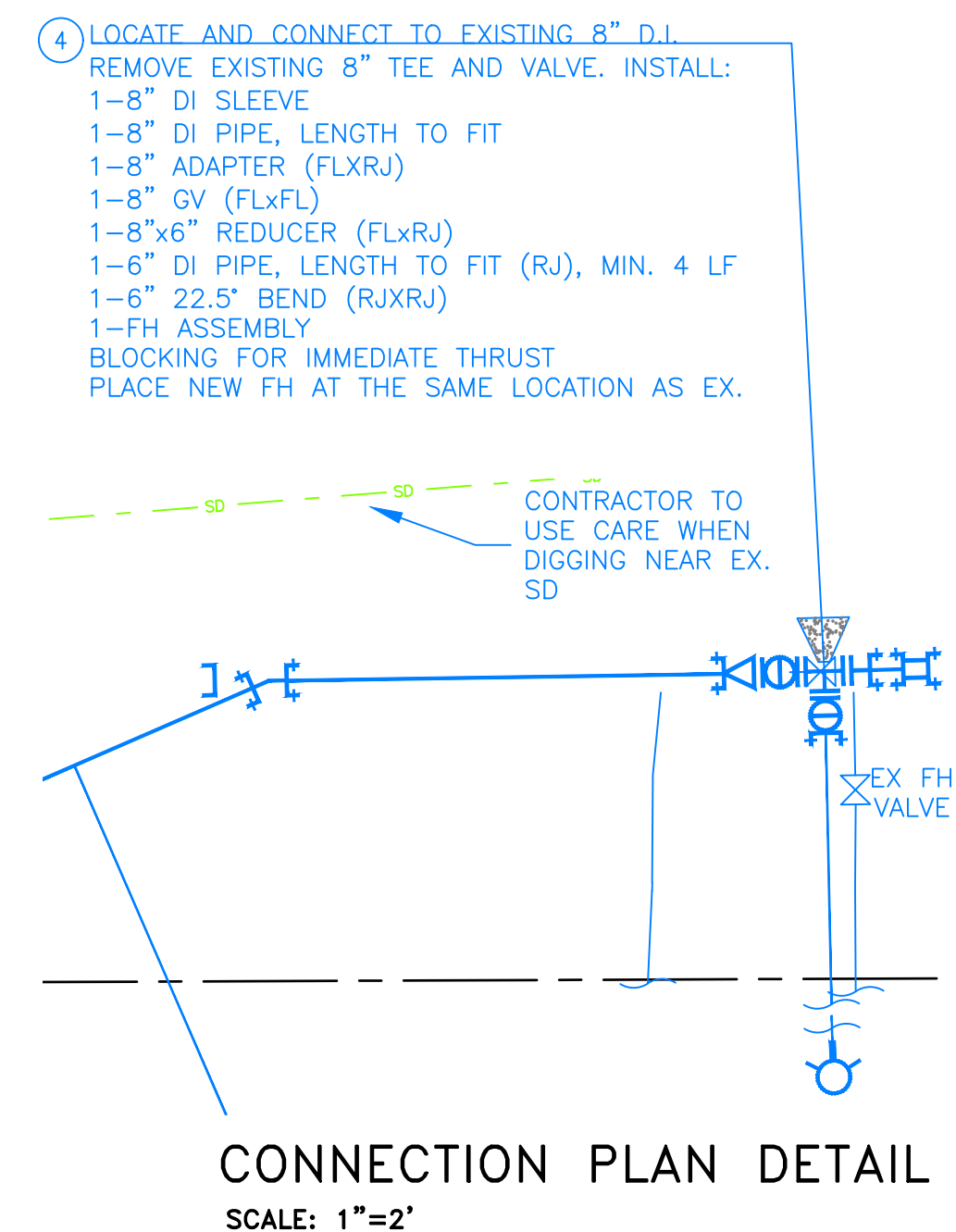


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- 7 POTHOLE ALL UTILITY CROSSINGS (WATER, SEWER, POWER, TELEPHONE, GAS, ETC.) AT LEAST 6 WORKING DAYS PRIOR TO COMMENCING WATER MAIN INSTALLATION IN ORDER TO CONFIRM THE VERTICAL LOCATION AS SHOWN.
- 8 MINIMUM 1" VERTICAL CLEARANCE REQUIRED BETWEEN UTILITIES. MINIMUM 18" SEPARATION BETWEEN WATER AND SEWER (WATER OVER SEWER). IF VERTICAL CLEARANCE CANNOT BE OBTAINED, INSTALL ETHAFOAM PAD BETWEEN UTILITIES.
- 9 ALL SERVICE CONNECTIONS ARE ASSUMED TO HAVE A PRIVATE PRV DEVICE ON THE BACKSIDE OF THE METER. UNLESS OTHERWISE NOTED, A REPLACEMENT PRV DEVICE MAY BE REQUIRED AT THE TIME OF RECONNECTION IF AN EXISTING ONE IS PRESENT ON THE BACKSIDE. SEE SPECIFICATIONS FOR PRESSURE TESTING REQUIREMENTS. SEE STANDARD DETAIL #21.
- 10 WATER SERVICE INSTALLATION MAY BE COMPLETED BY EITHER OPEN TRENCH OR HOLE HOG. MEANS AND METHODS FOR WATER SERVICE INSTALLATION SHALL BE DETERMINED BY THE CONTRACTOR. TRENCHLESS WILL STILL REQUIRE POTHOLES EXISTING UTILITIES TO PREVENT DAMAGE IN ACCORDANCE WITH RCW 19.122. POTHOLES FOR TRENCHLESS METHODS WILL BE INCIDENTAL.
- 11 CONTRACTOR TO MAKE CONNECTION TO PRIVATE LINE AND COORDINATE TRANSITION OF SERVICE TO NEW WATER MAIN WITH NORTHSORE UTILITY DISTRICT IN ORDER TO RESTORE WATER SERVICE WITH MINIMAL DISRUPTION.

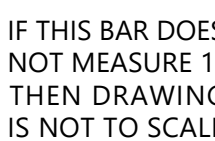
CONSTRUCTION NOTES

- ① CATCH BASIN AND INLET SEDIMENTATION PROTECTION REQUIRED, SEE SHEET 23 FOR DETAILED INFORMATION.
- ② INSTALL NEW 1" SERVICE PER THE STANDARD WATER DETAILS AND THE STANDARD WATER SERVICE RECONNECTION DETAIL ON SHEET 20. LOCATE AND CONNECT TO EXISTING CUSTOMER WATER SERVICE BACKSIDE. FINAL METER LOCATIONS TO BE ADJUSTED IN THE FIELD, COORDINATE WITH NUD FIELD REPRESENTATIVE.
- ③ REMOVE AND REPLACE EXISTING VALVE BOX.
- ④ ABANDON IN PLACE THE EXISTING WATER LINE AFTER NEW DI WATER LINE CONNECTIONS HAVE BEEN CONSTRUCTED. THE EXISTING WATER MAIN SHALL BE DEACTIVATED AND REMAIN AS SURPLUS FACILITIES OF THE DISTRICT. CLOSE ALL BRANCH VALVES AND LEAVE IN-LINE VALVES OPEN. REMOVE AND DISPOSE OF EXISTING BLOW-OFF ASSEMBLIES. REMOVE AND DISPOSE OF EXISTING VALVE BOXES. THE PIPE SHALL BE CAPPED WATER-TIGHT WITH FITTING IN ACCORDANCE WITH THE SPECIFICATIONS.
- ⑤ FURNISH AND INSTALL 2" BLOW-OFF ASSEMBLY PER NORTHSHORE UTILITY DISTRICT STANDARD WATER DETAIL, SEE SHEET 20.
- ⑥ MINIMUM 1' VERTICAL CLEARANCE (TYP.). IF MINIMUM CLEARANCE CANNOT BE ACHIEVED, PROVIDE 6" SEPARATION AND PLACE ETHAFOAM PAD BETWEEN UTILITIES.
- ⑦ REMOVE AND SALVAGE EXISTING FH AND DELIVER TO DISTRICT YARD IN KENMORE IN CLEAN AND OPERATIONAL CONDITION. CLOSE EXISTING FH VALVE AND REMOVE VALVE BOX. BACKFILL AND COMPLETE SURFACE RESTORATION PER STANDARDS.

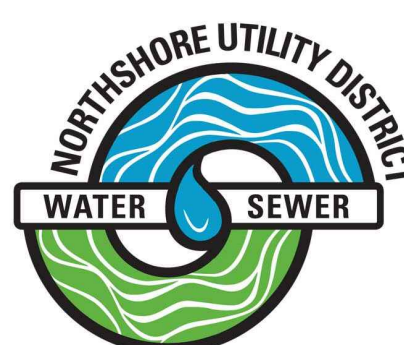
- 1 SCHEDULE F – 120/80 WATER MAIN REPLACEMENT SHALL BE STARTED FIRST AND COMPLETED BEFORE WORK CAN BEGIN ON ANOTHER SCHEDULE UNLESS THE CONTRACTOR HAS SUFFICIENT RESOURCES TO ADEQUATELY STAFF AND COMPLETE MULTIPLE SCHEDULES OF WORK SIMULTANEOUSLY.
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- 3 FOR THE REMAINING SCHEDULES OF WORK, THE CONTRACTOR MAY CHOOSE THE ORDER OF WORK.
- 4 EACH SCHEDULE OF WORK MUST BE COMPLETED AND RESTORED TO THE SATISFACTION OF THE DISTRICT BEFORE THE CONTRACTOR WILL BE ALLOWED TO COMMENCE WORK ON THE SUBSEQUENT SCHEDULES.



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DESIGNED BY	MB
DRAWN BY	AMJ
CHECKED BY	HPP
APPROVAL	HPP
DATE	----

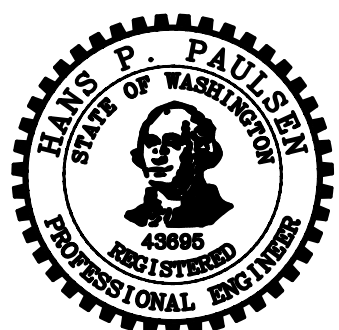
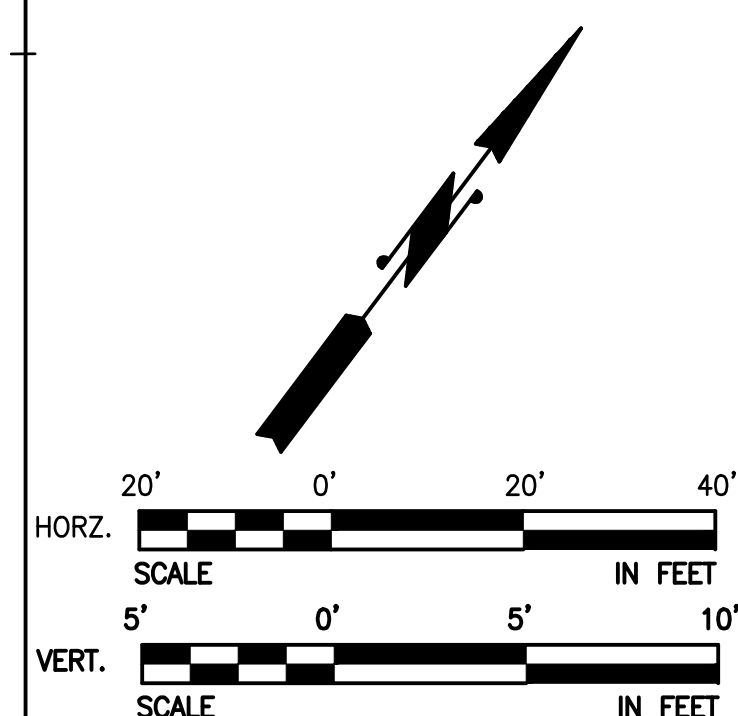


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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT

SCHEDULE E - JUANITA / 88 WATER MAIN REPLACEMENT



BASE MAP L7

C2106

SHEET

9 OF 25

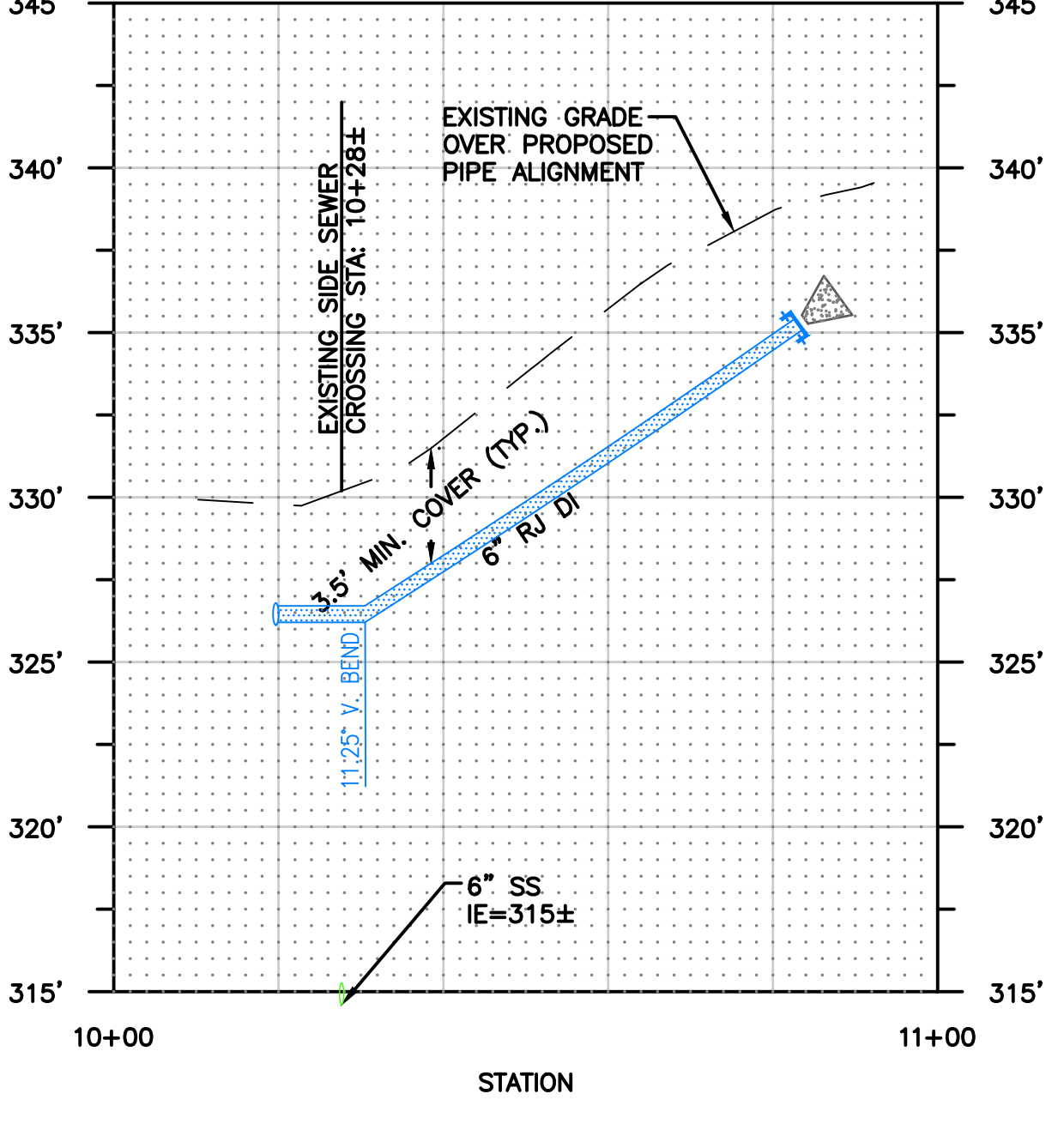
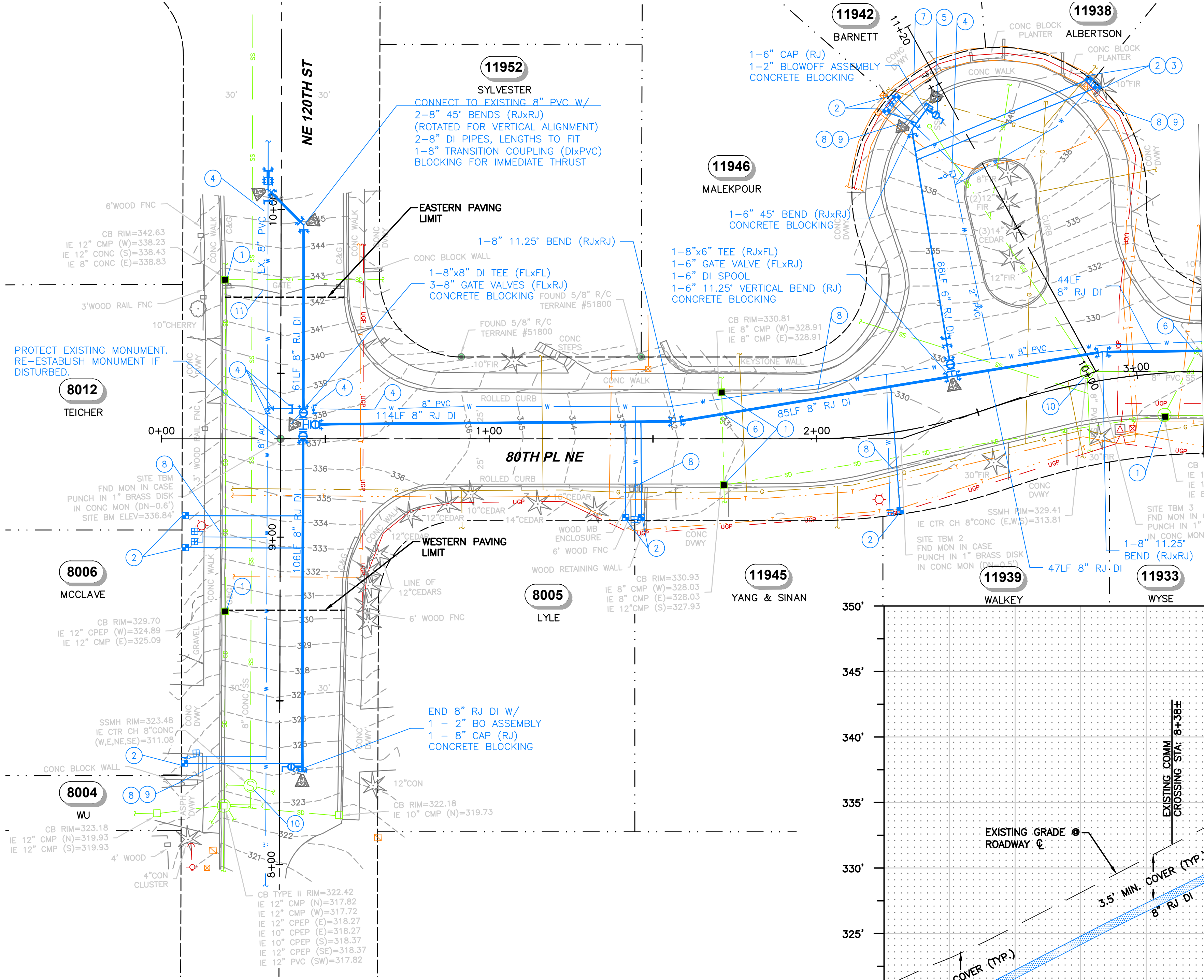
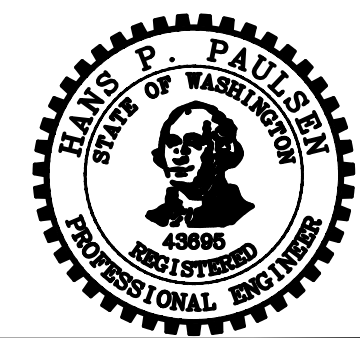
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- PRIOR TO EXCAVATION, INSTALL TESC FACILITIES PER SHEET 2.
- COORDINATE AND CONFIRM FITTING REQUIREMENTS IN THE FIELD WITH THE DISTRICT PRIOR TO CONSTRUCTION.
- ALL BURIED WATER MAIN SHALL BE RESTRAINED JOINT (RJ) PIPE WITH FIELD LOK GASKETS (OR APPROVED EQUAL) PER NUD STANDARD SPECIFICATIONS. PROVIDE 5' CLEARANCE FROM EXISTING SEWER. WHERE FEASIBLE AND WITH DISTRICT APPROVAL, MAINTAIN 3' CLEARANCE FROM EXISTING WATER MAIN.
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- MINIMUM 1' VERTICAL CLEARANCE REQUIRED BETWEEN UTILITIES. MINIMUM 18" SEPARATION BETWEEN WATER AND SEWER (WATER OVER SEWER). IF VERTICAL CLEARANCE CANNOT BE OBTAINED, INSTALL ETHAFOAM PAD BETWEEN 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 MAY BE REQUIRED AT THE TIME OF RECONNECTION IF AN EXISTING ONE IS PRESENT ON THE BACKSIDE. SEE SPECIFICATIONS FOR PRESSURE TESTING REQUIREMENTS. SEE STANDARD DETAIL #21.
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CONSTRUCTION NOTES

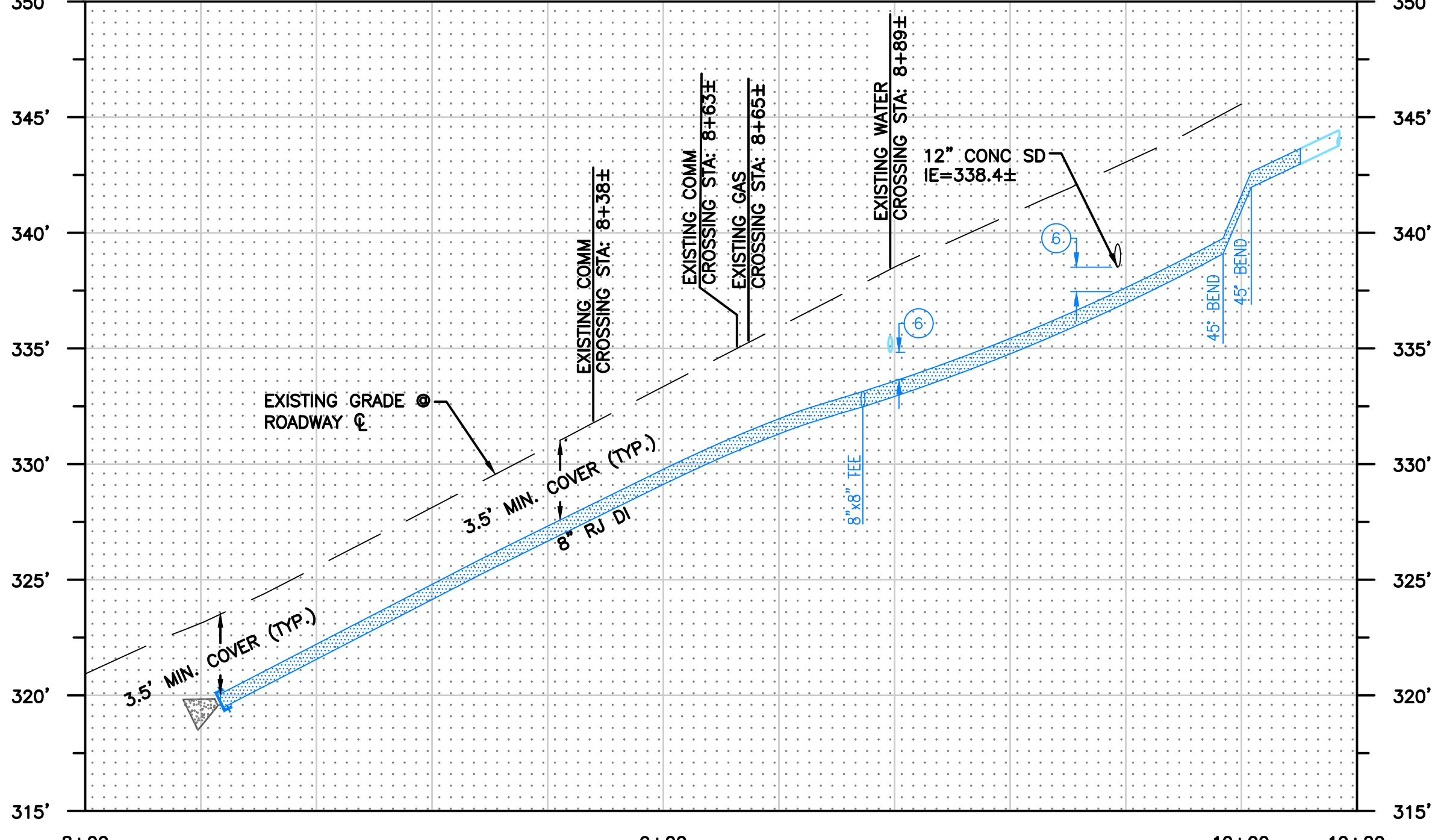
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- REMOVE AND REINSTALL BLOCK WALL.
- ABANDON IN PLACE THE EXISTING WATER LINE AFTER NEW DI WATER LINE CONNECTIONS HAVE BEEN CONSTRUCTED. THE EXISTING WATER MAIN SHALL BE DEACTIVATED AND REMAIN AS SURPLUS FACILITIES OF THE DISTRICT. CLOSE ALL BRANCH VALVES AND LEAVE IN-LINE VALVES OPEN. REMOVE AND DISPOSE OF EXISTING BLOW-OFF ASSEMBLIES. REMOVE AND DISPOSE OF EXISTING VALVE BOXES. THE PIPE SHALL BE CAPPED WATER-TIGHT WITH FITTING IN ACCORDANCE WITH THE SPECIFICATIONS.
- FURNISH AND INSTALL 2" BLOW-OFF ASSEMBLY PER NORTHSORE UTILITY DISTRICT STANDARD WATER DETAIL, SEE SHEET 20.
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- REMOVE AND REPLACE EXISTING ROLLED CURB AND GUTTER PER PLAN NO. CK-R.17D TO THE NEAREST EXPANSION JOINT PER SPECIFICATIONS.
- REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK PER PLAN NO. CK-R.23 TO NEAREST EXPANSION JOINT AS SHOWN ON THE PLAN AND PER SPECIFICATIONS.
- REPLACE SEWER MANHOLE FRAME, COVER AND ADJUSTMENT RINGS PER DISTRICT SPECIFICATIONS.
- GATE ACCESS FOR THIS LOCATION SHALL BE COORDINATED WITH NUD AND THE CITY OF KIRKLAND.

ORDER OF WORK & RESTRICTIONS

- SCHEDULE F - 120/80 WATER MAIN REPLACEMENT SHALL BE STARTED FIRST AND COMPLETED BEFORE WORK CAN BEGIN ON ANOTHER SCHEDULE, UNLESS THE CONTRACTOR HAS SUFFICIENT RESOURCES TO ADEQUATELY STAFF AND COMPLETE MULTIPLE SCHEDULES OF WORK SIMULTANEOUSLY.
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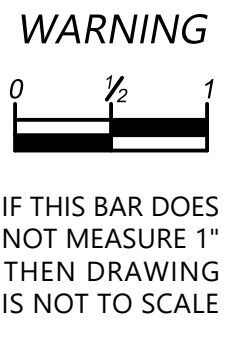


80TH PL NE CUL-DE-SAC PROFILE

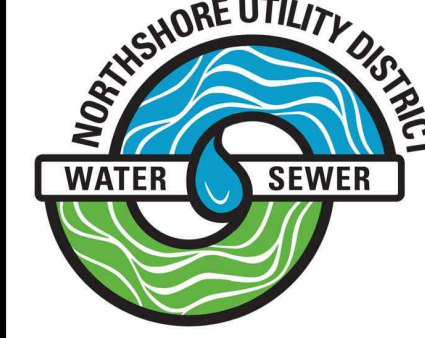


NE 120TH ST PROFILE

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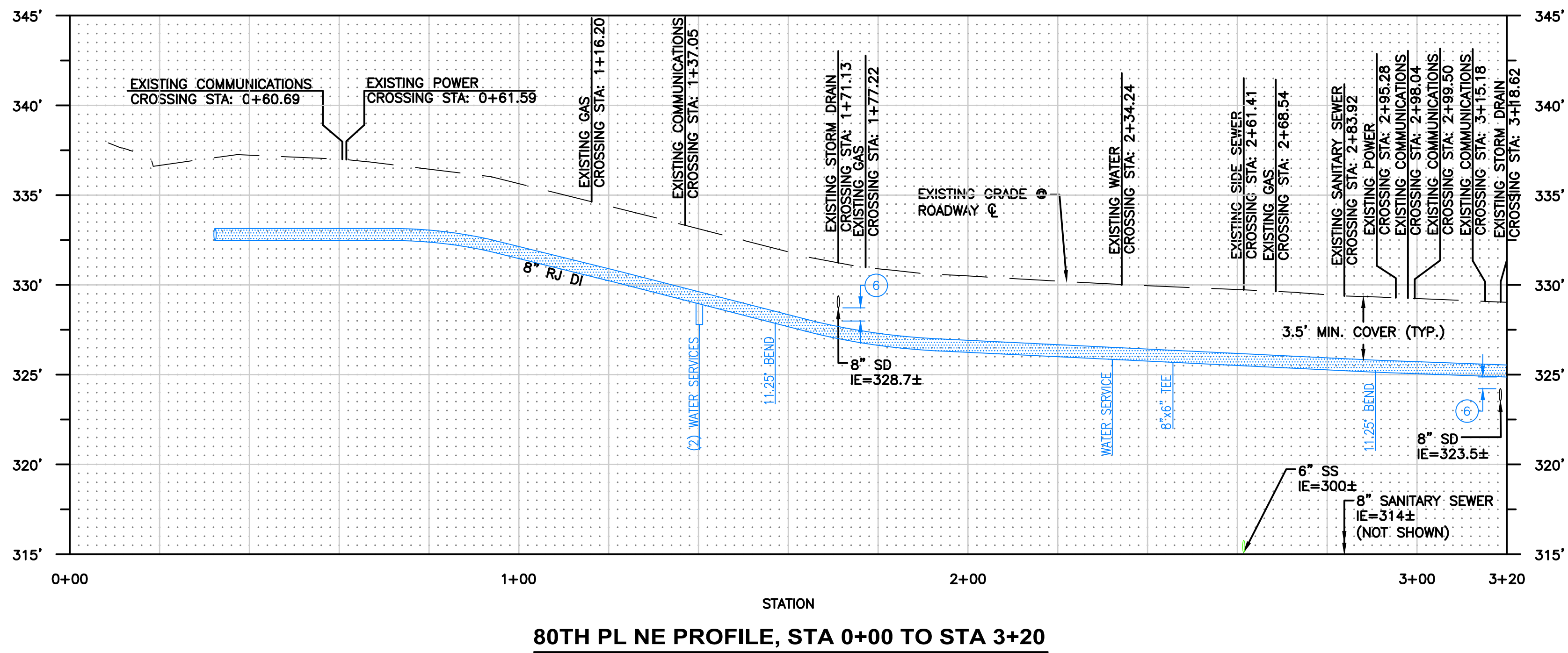
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DRAWN BY	AMJ
CHECKED BY	HPP
APPROVAL	HPP
DATE	----



NORTHSORE UTILITY DISTRICT
6830 NE 185th St. P.O. Box 82489
Kenmore, WA 98028-2684 Kenmore, WA 98028-2684
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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT
SCHEDULE F - 120 / 80
WATER MAIN REPLACEMENT

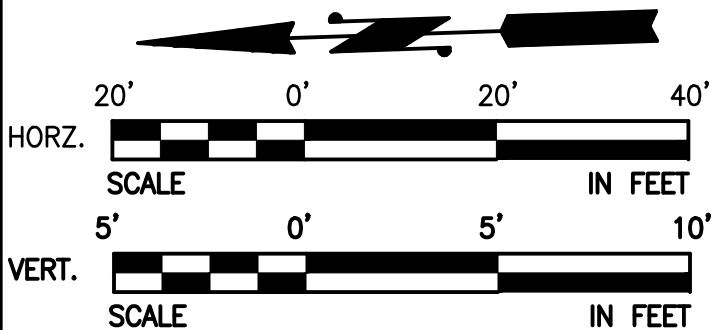
BASE MAP K6
C2106
SHEET
10 OF 25



GENERAL NOTES

PRINT IN COLOR

- 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.
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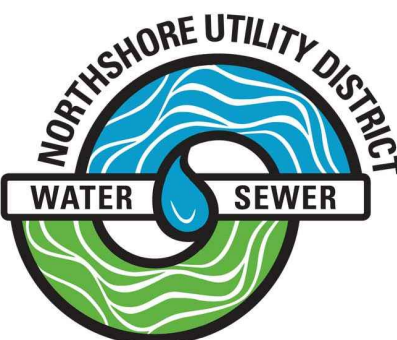


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WARNING
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Kenmore, WA 98028-2684 Kenmore, WA 98028-2684
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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT
SCHEDULE F - 120 / 80
WATER MAIN REPLACEMENT

BASE MAP K6
C2106
SHEET
11 OF 25

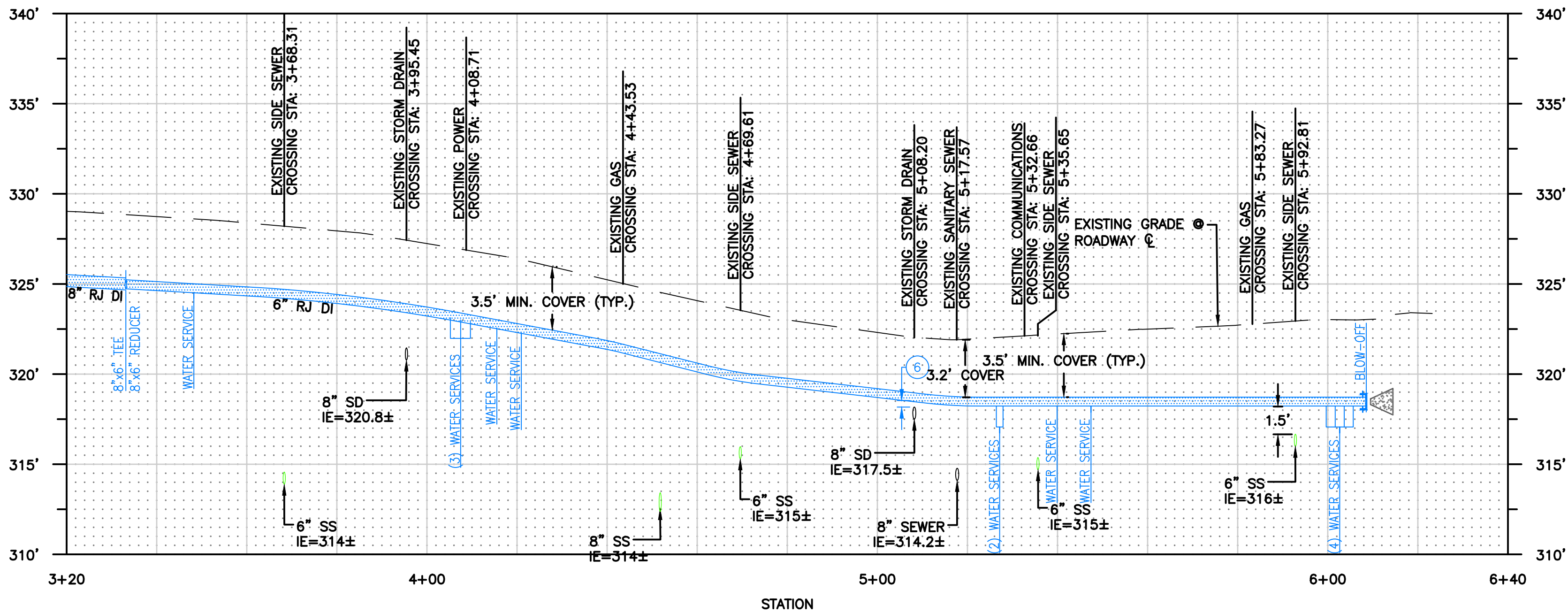
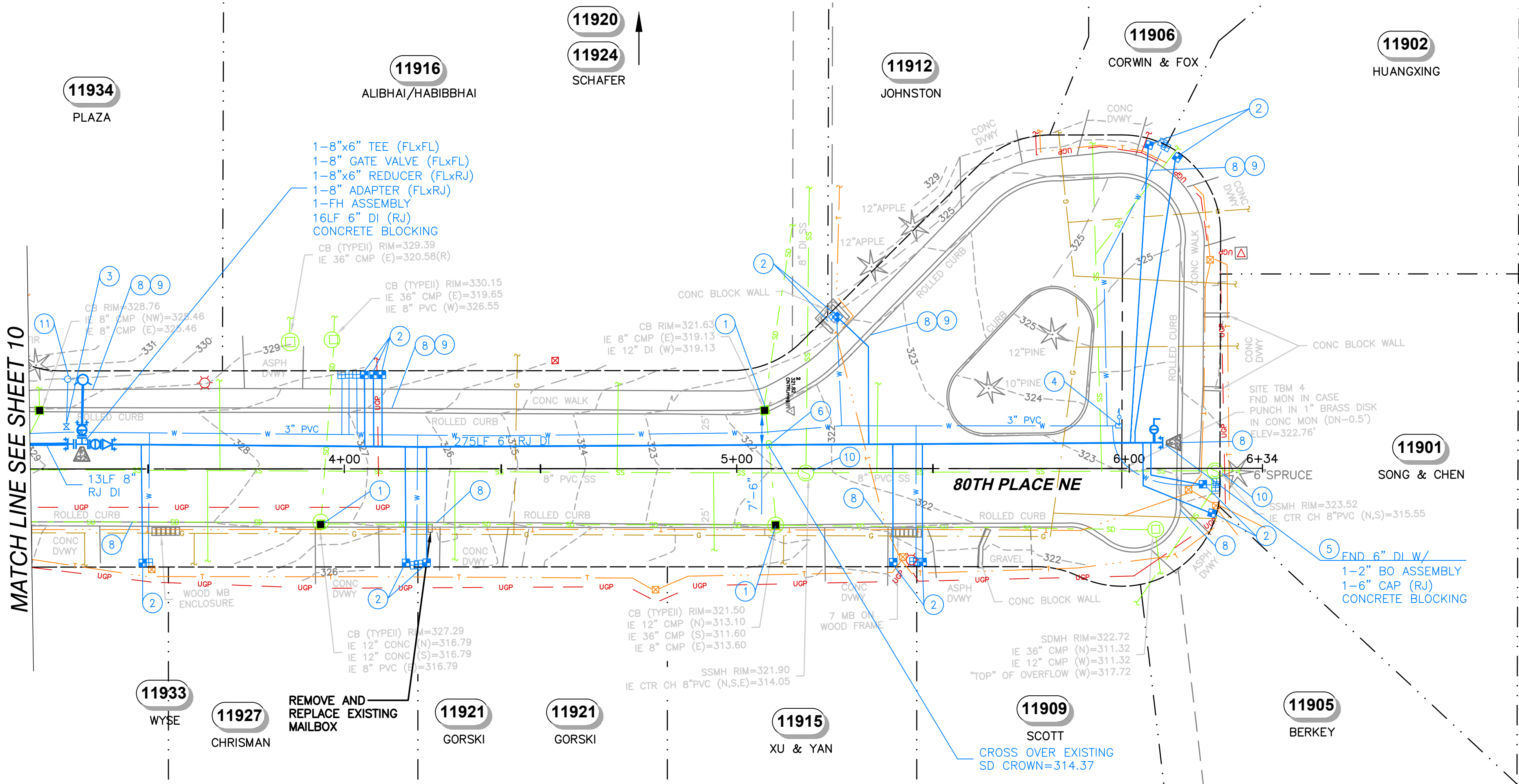
GENERAL NOTES

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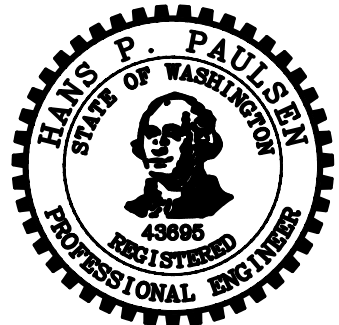
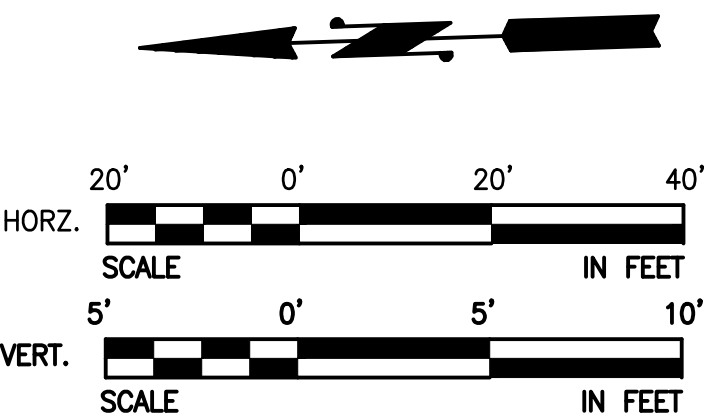
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80TH PL NE PROFILE, STA 3+20 TO STA 6+40

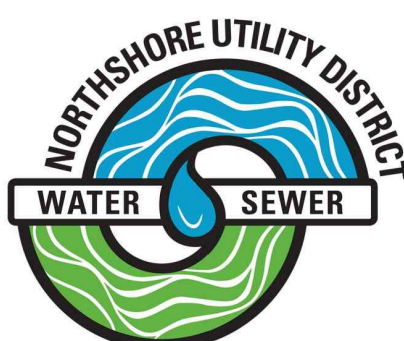


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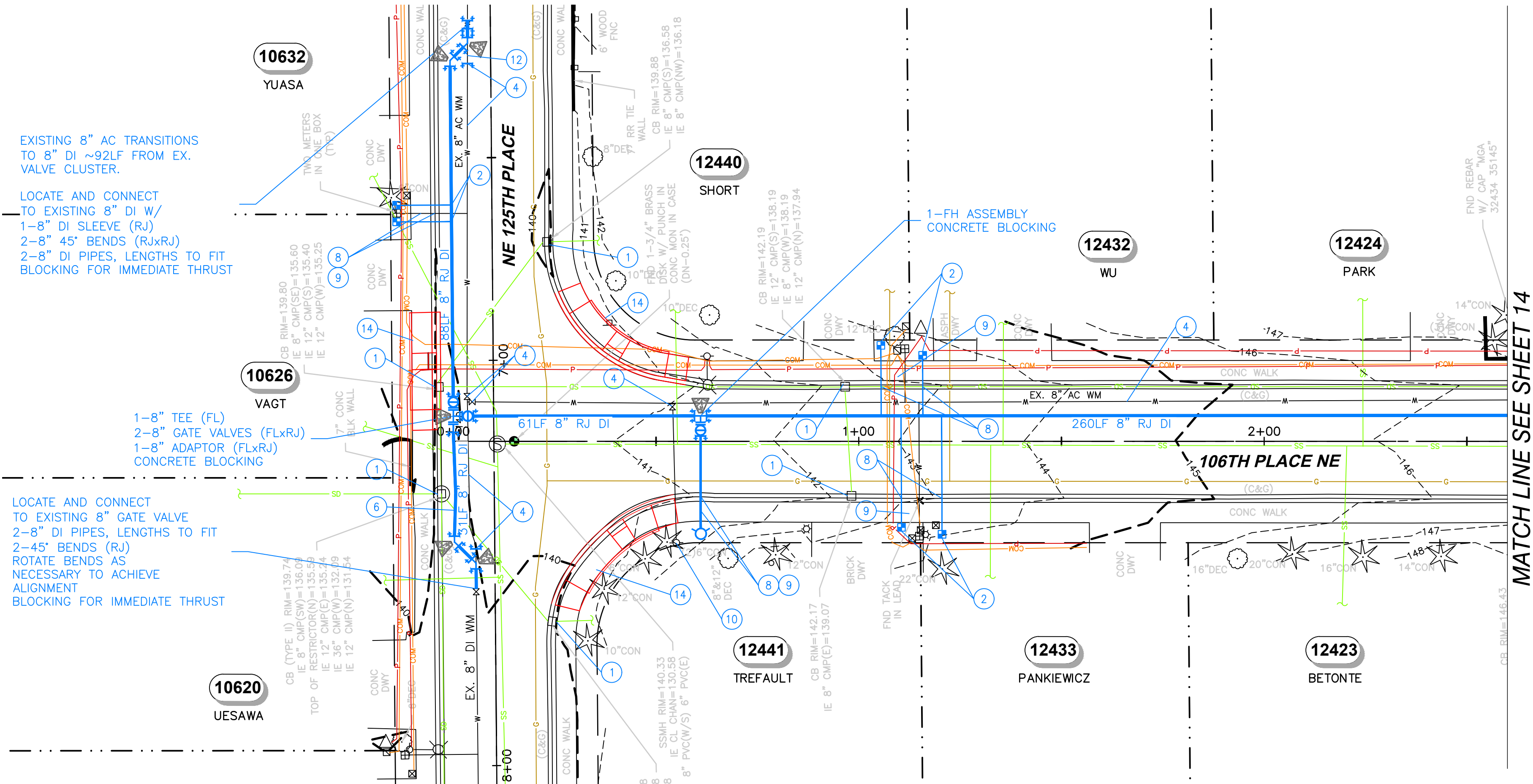
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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT
SCHEDULE F - 120 / 80
WATER MAIN REPLACEMENT

BASE MAP K6
C2106
SHEET
12 OF 25



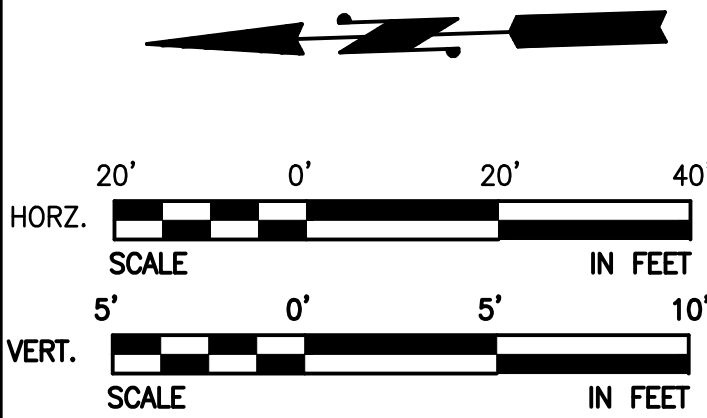
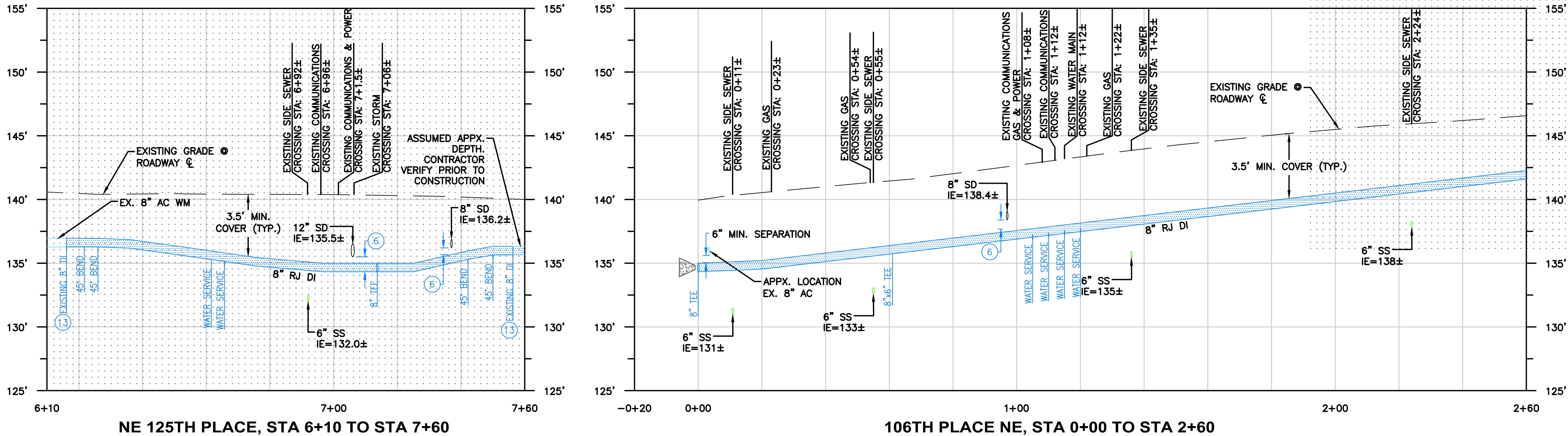
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CONSTRUCTION NOTES

- CATCH BASIN AND INLET SEDIMENTATION PROTECTION REQUIRED, SEE SHEET 23 FOR DETAIL INFORMATION.
- INSTALL NEW 1" SERVICE PER THE STANDARD WATER DETAILS AND THE STANDARD WATER SERVICE RECONNECTION DETAIL ON SHEET 20. LOCATE AND CONNECT TO EXISTING CUSTOMER WATER SERVICE BACKSIDE. FINAL METER LOCATIONS TO BE ADJUSTED IN THE FIELD, COORDINATE WITH NUD FIELD REPRESENTATIVE.
- ABANDON IN PLACE THE EXISTING WATER LINE AFTER NEW DI WATER LINE CONNECTIONS HAVE BEEN CONSTRUCTED. THE EXISTING WATER MAIN SHALL BE DEACTIVATED AND REMAIN AS SURPLUS FACILITIES OF THE DISTRICT. CLOSE ALL BRANCH VALVES AND LEAVE IN-LINE VALVES OPEN. REMOVE AND DISPOSE OF EXISTING BLOW-OFF ASSEMBLIES. REMOVE AND DISPOSE OF EXISTING VALVE BOXES. THE PIPE SHALL BE CAPPED WATER-TIGHT WITH FITTING IN ACCORDANCE WITH THE SPECIFICATIONS.
- MINIMUM 1' VERTICAL CLEARANCE (TYP.). IF MINIMUM CLEARANCE CANNOT BE ACHIEVED, PLACE ETHAFOAM PAD BETWEEN UTILITIES.
- REMOVE AND REPLACE EXISTING DRIVEWAY TO NEAREST EXPANSION JOINT AS SHOWN ON THE PLAN AND PER SPECIFICATIONS.
- REMOVE AND REPLACE EXISTING ROLLED CURB AND GUTTER PER PLAN NO. CK-R.17D TO THE NEAREST EXPANSION JOINT PER SPECIFICATIONS.
- REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK PER PLAN NO. CK-R.23 TO NEAREST EXPANSION JOINT AS SHOWN ON THE PLAN AND PER SPECIFICATIONS.
- REMOVE AND SALVAGE EXISTING FH AND DELIVER TO DISTRICT YARD IN KENMORE IN CLEAN AND OPERATIONAL CONDITION. CLOSE EXISTING FH VALVE AND REMOVE VALVE BOX. BACKFILL AND COMPLETE SURFACE RESTORATION PER STANDARDS.
- EX. AC WATER MAIN CONFLICTING WITH NEW MAIN INSTALLATION SHALL BE CUT AND LEFT IN THE TRENCH TO THE EXTENT FEASIBLE (TYP.). WHEN REQUIRED, REMOVE AND DISPOSE OF EX. 8" AC MAIN MEETING ALL APPLICABLE STATE & FEDERAL REQUIREMENTS PER SPECIFICATIONS.
- ASSUMED APPROXIMATE DEPTH. CONTRACTOR TO POTHOLE AND VERIFY PRIOR TO CONSTRUCTION.
- ADA RAMPS PER PLANS AND DETAILS SHOWN ON SHEET 24.



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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT

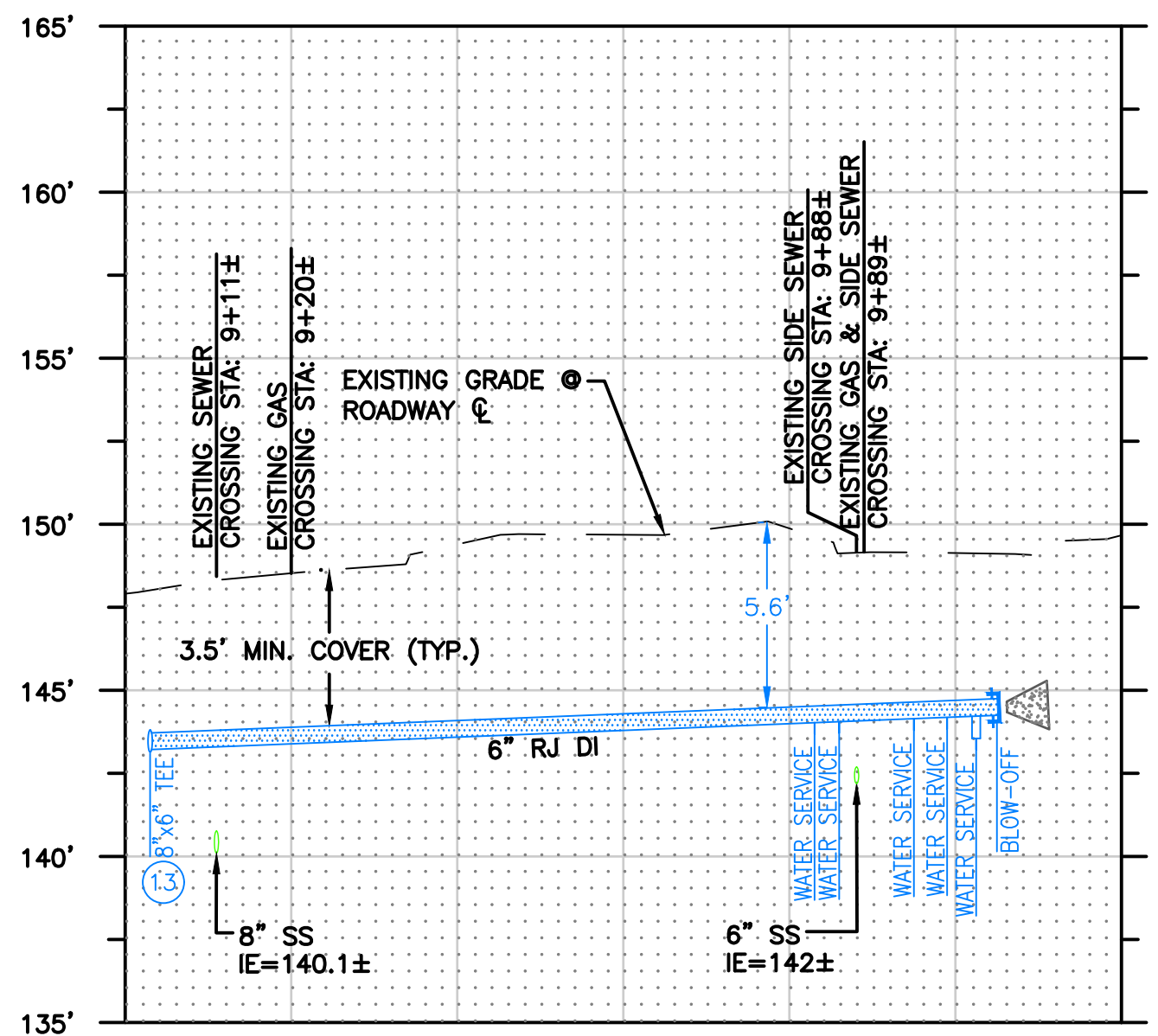
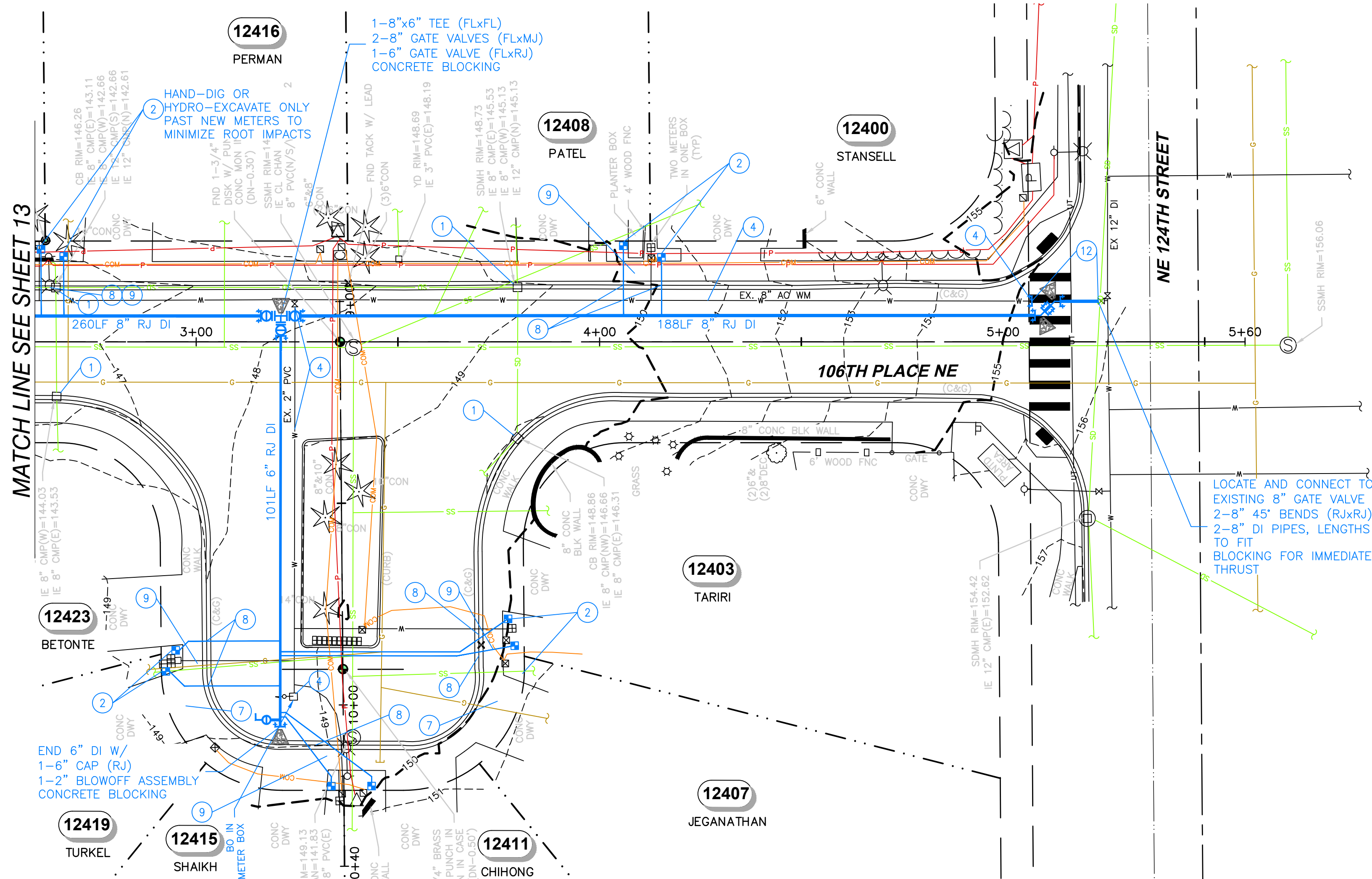
**SCHEDULE G - 124 / 106
WATER MAIN REPLACEMENT**

BASE MAP K6

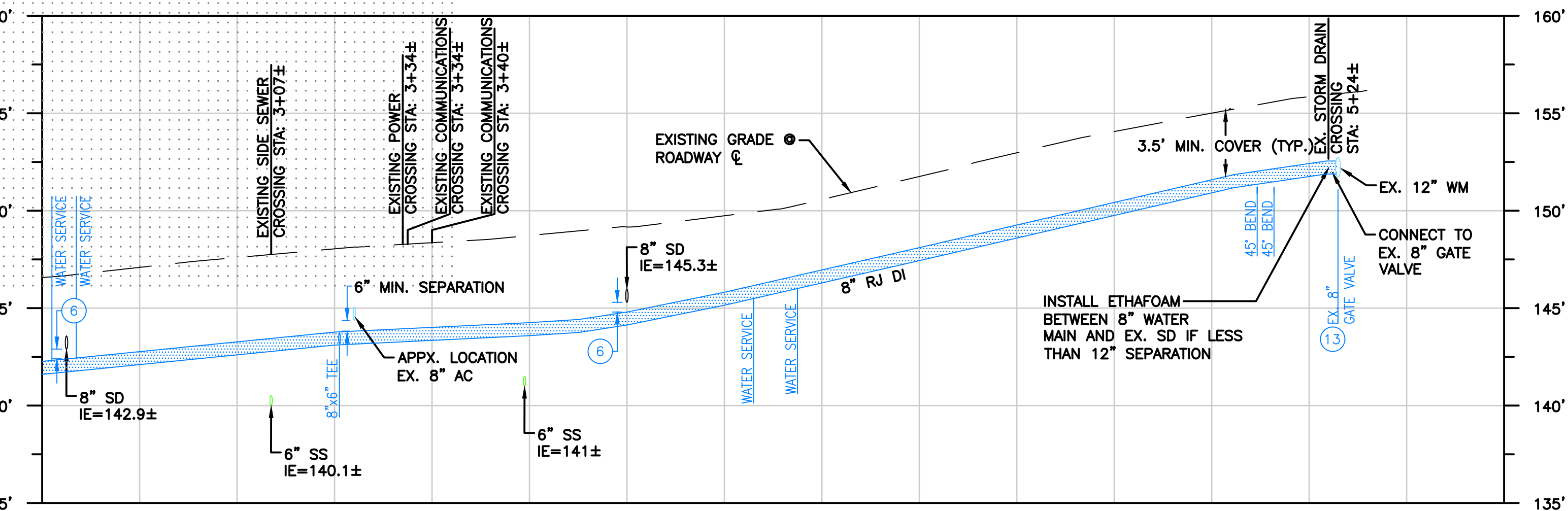
C2106

SHEET

13 OF 25



CUL-DE-SAC, STA 9+00 TO STA 10+20



106TH PLACE NE, STA 2+60 TO STA 5+60

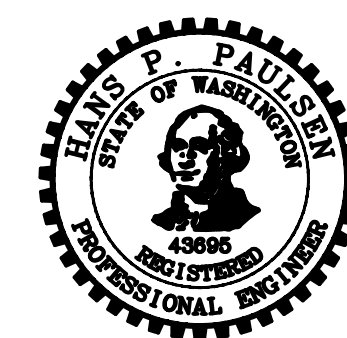
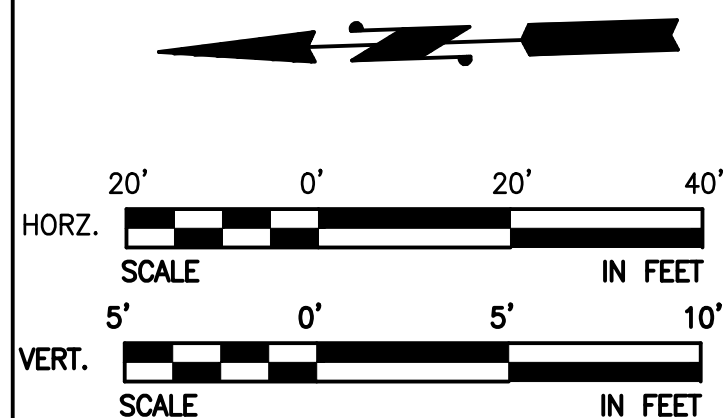
GENERAL NOTES

PRINT IN COLOR

- SEE SHEET 2 FOR GENERAL NOTES, LEGEND, AND SURVEY CONTROL INFORMATION.
- PRIOR TO EXCAVATION, INSTALL TESC FACILITIES PER SHEET 19
- COORDINATE AND CONFIRM FITTING REQUIREMENTS IN THE FIELD WITH THE DISTRICT PRIOR TO CONSTRUCTION.
- ALL BURIED WATER MAIN SHALL BE RESTRAINED JOINT (RJ) PIPE WITH FIELD LOK GASKETS (OR APPROVED EQUAL) PER NUD STANDARD SPECIFICATIONS. PROVIDE 5' CLEARANCE FROM EXISTING SEWER. WHERE FEASIBLE AND WITH DISTRICT APPROVAL, MAINTAIN 3' CLEARANCE FROM EXISTING WATER MAIN.
- LOCATION AND DEPTH OF EXISTING WATER MAIN SHALL BE VERIFIED PRIOR TO CONNECTION.
- CONSTRUCT NEW WATER MAIN BELOW EXISTING WATER MAIN UNLESS OTHERWISE NOTED. TYPICAL COVER FOR WATER MAIN IS 3.5' UNLESS OTHERWISE NOTED.
- POTHOLE ALL UTILITY CROSSINGS (WATER, SEWER, POWER, TELEPHONE, GAS, ETC.) AT LEAST 6 WORKING DAYS PRIOR TO COMMENCING WATER MAIN INSTALLATION IN ORDER TO CONFIRM THE VERTICAL LOCATION AS SHOWN.
- MINIMUM 1' VERTICAL CLEARANCE REQUIRED BETWEEN UTILITIES. IF VERTICAL CLEARANCE CANNOT BE OBTAINED, INSTALL ETHAFOAM PAD BETWEEN 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 MAY BE REQUIRED AT THE TIME OF RECONNECTION IF AN EXISTING ONE IS PRESENT ON THE BACKSIDE. SEE SPECIFICATIONS FOR PRESSURE TESTING REQUIREMENTS. SEE STANDARD DETAIL #21.
- WATER SERVICE INSTALLATION MAY BE COMPLETED BY EITHER OPEN TRENCH OR HOLE HOG. MEANS AND METHODS FOR WATER SERVICE INSTALLATION SHALL BE DETERMINED BY THE CONTRACTOR. TRENCHLESS WILL STILL REQUIRE POTHOLING EXISTING UTILITIES TO PREVENT DAMAGE IN ACCORDANCE WITH RCW 19.122. POTHOLING FOR TRENCHLESS METHODS WILL BE INCIDENTAL.
- CONTRACTOR TO MAKE CONNECTION TO PRIVATE LINE AND COORDINATE TRANSITION OF SERVICE TO NEW WATER MAIN WITH NORTHSHORE UTILITY DISTRICT IN ORDER TO RESTORE WATER SERVICE WITH MINIMAL DISRUPTION.

CONSTRUCTION NOTES

- CATCH BASIN AND INLET SEDIMENTATION PROTECTION REQUIRED, SEE SHEET 22 FOR DETAIL INFORMATION.
- INSTALL NEW 1" SERVICE PER THE STANDARD WATER DETAILS AND THE STANDARD WATER SERVICE RECONNECTION DETAIL ON SHEET 20. LOCATE AND CONNECT TO EXISTING CUSTOMER WATER SERVICE BACKSIDE. FINAL METER LOCATIONS TO BE ADJUSTED IN THE FIELD, COORDINATE WITH NUD FIELD REPRESENTATIVE.
- ABANDON IN PLACE THE EXISTING WATER LINE AFTER NEW DI WATER LINE CONNECTIONS HAVE BEEN CONSTRUCTED. THE EXISTING WATER MAIN SHALL BE DEACTIVATED AND REMAIN AS SURPLUS FACILITIES OF THE DISTRICT. CLOSE ALL BRANCH VALVES AND LEAVE IN-LINE VALVES OPEN. REMOVE AND DISPOSE OF EXISTING BLOW-OFF ASSEMBLIES. REMOVE AND DISPOSE OF EXISTING VALVE BOXES. THE PIPE SHALL BE CAPPED WATER-TIGHT WITH FITTING IN ACCORDANCE WITH THE SPECIFICATIONS.
- MINIMUM 1' VERTICAL CLEARANCE (TYP.). IF MINIMUM CLEARANCE CANNOT BE ACHIEVED, PLACE ETHAFOAM PAD BETWEEN UTILITIES.
- REMOVE AND REPLACE EXISTING DRIVEWAY TO NEAREST EXPANSION JOINT AS SHOWN ON THE PLAN AND PER SPECIFICATIONS.
- REMOVE AND REPLACE EXISTING ROLLED CURB AND GUTTER PER PLAN NO. CK-R.17D TO THE NEAREST EXPANSION JOINT PER SPECIFICATIONS.
- REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK PER PLAN NO. CK-R.23 TO NEAREST EXPANSION JOINT AS SHOWN ON THE PLAN AND PER SPECIFICATIONS.
- EX. AC WATER MAIN CONFLICTING WITH NEW MAIN INSTALLATION SHALL BE CUT AND LEFT IN THE TRENCH TO THE EXTENT FEASIBLE (TYP.). WHEN REQUIRED, REMOVE AND DISPOSE OF EX. 8" AC MAIN MEETING ALL APPLICABLE STATE & FEDERAL REQUIREMENTS PER SPECIFICATIONS.
- ASSUMED APPROXIMATE DEPTH. CONTRACTOR TO POTHOLE AND VERIFY PRIOR TO CONSTRUCTION.



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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT

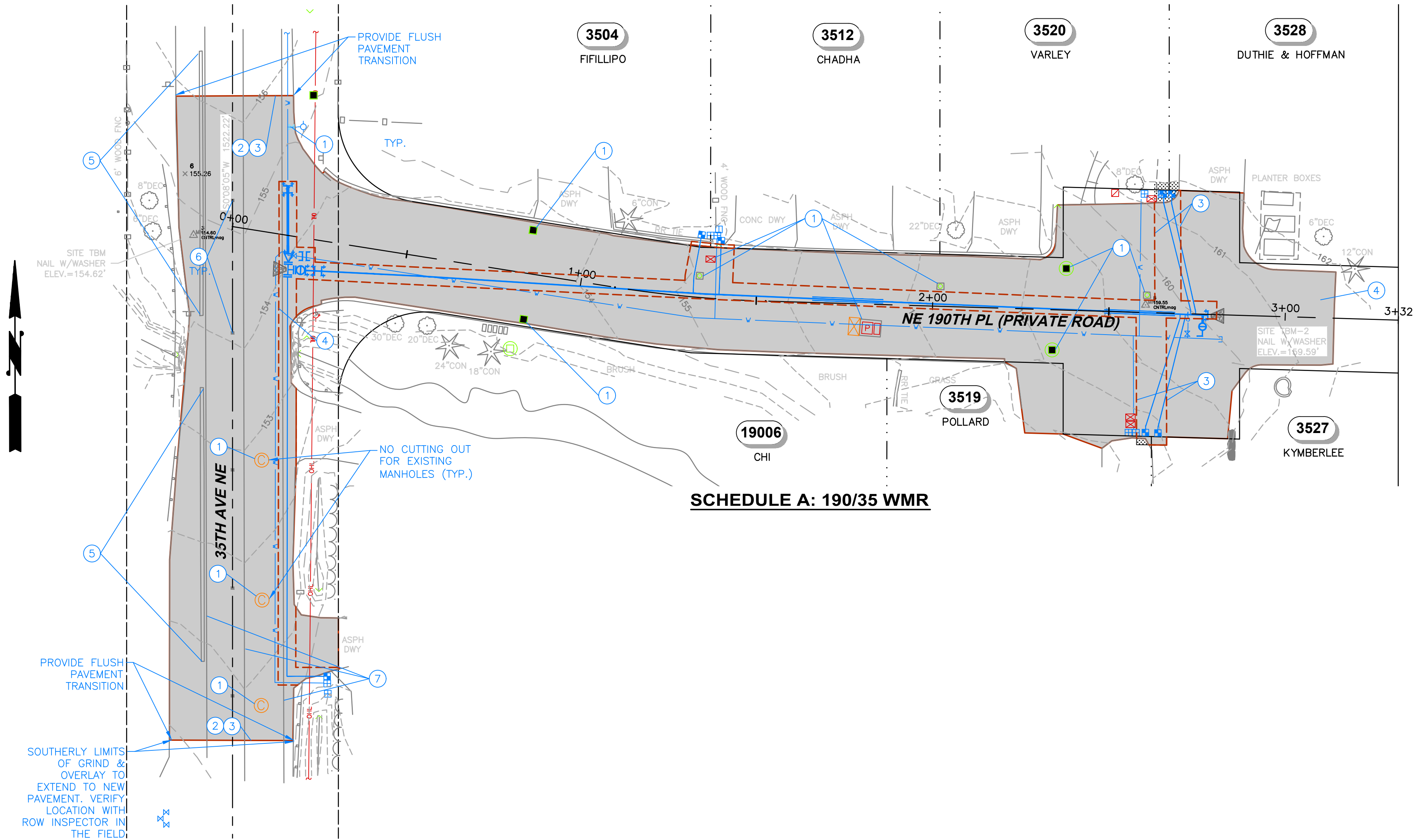
**SCHEDULE G - 124 / 106
WATER MAIN REPLACEMENT**

BASE MAP K6

C2106

SHEET

14 OF 25



GENERAL NOTES PRINT IN COLOR

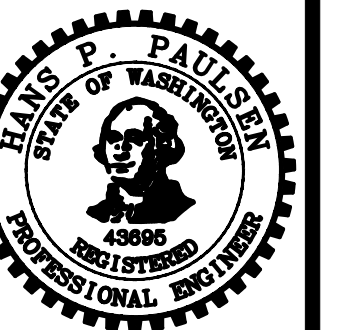
1. SEE SPECIFICATIONS FOR WORK AND PAYMENT INCLUDED IN GENERAL RESTORATION.
2. GRASS AREAS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE RESTORED WITH 4" OF TOPSOIL AND SOD PER THE SPECIFICATIONS.
3. NOT ALL RESTORATION REQUIREMENTS MAY BE SHOWN. THE CONTRACTOR SHALL RESTORE ALL EXISTING IMPROVEMENTS DAMAGED 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. FOR SCHEDULES E-F SEE PLAN NO. CK-R.12 FOR RESTORATION & PATCHING.
5. ASPHALT PLANING SHALL BE PER DETAIL SPECIFICATION 3.7. FOR SCHEDULES E-F SEE PLAN NO. CK-R.13B FOR FULL WIDTH PLANING.

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
- CONCRETE SLAB REMOVAL AND REPLACEMENT

RESTORATION NOTES

1. ADJUST ALL UTILITY CASTINGS TO FINISHED GRADE
2. 2" SAWCUT OR GRIND. SEAL WITH AR4000W (TYP.)
3. THOROUGHLY TACK ALL EDGES (TYP.)
4. OVERLAY. FOR SCHEDULES E-G SEE ALSO PLAN NO. CK-R.13A
5. REMOVE, DISPOSE AND REPLACE IN-KIND EXTRUDED CURB
6. REPLACE RAISED PAVEMENT REFLECTORS/MARKERS
7. REPLACE FOG LINE STRIPING AND DOUBLE YELLOW CENTER STRIPING

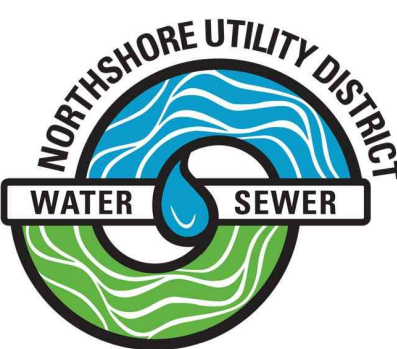


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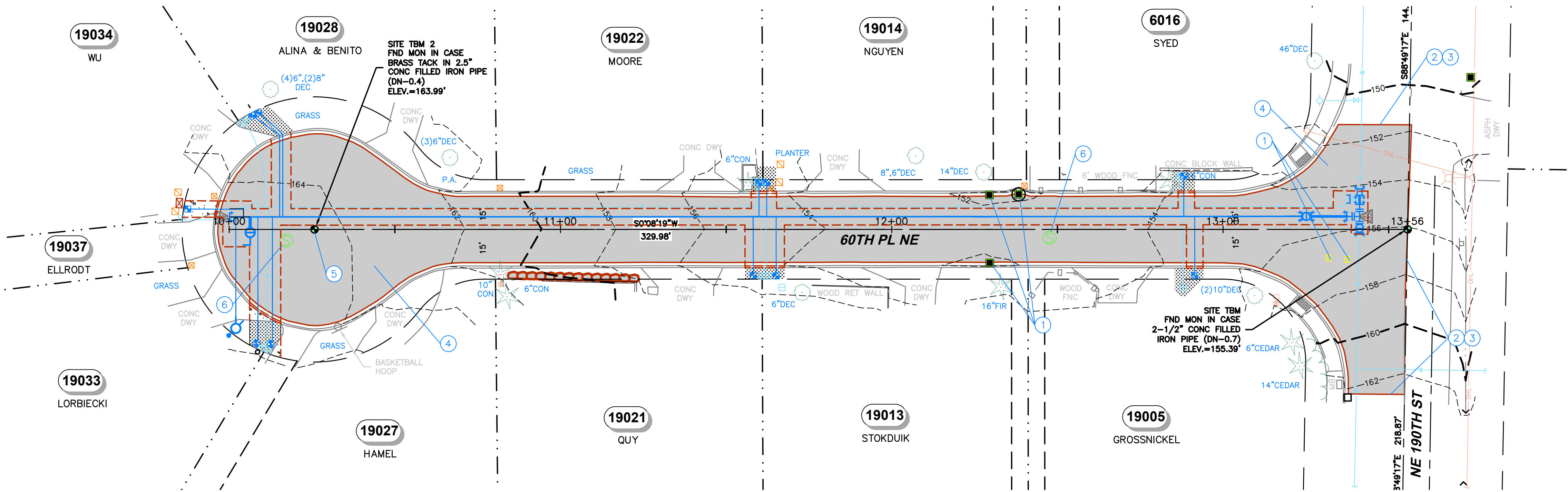
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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT
**RESTORATION PLANS
SCHEDULE A**

BASE MAP B1
C2106
SHEET
15 OF 25



SCHEDULE B: 190/60 WMR

GENERAL NOTES PRINT IN COLOR

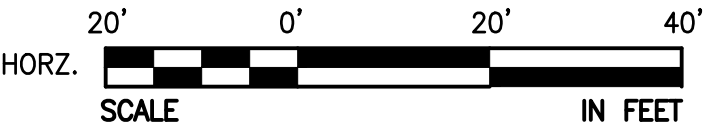
1. SEE SPECIFICATIONS FOR WORK AND PAYMENT INCLUDED IN GENERAL RESTORATION.
2. GRASS AREAS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE RESTORED WITH 4" OF TOPSOIL AND SOD PER THE SPECIFICATIONS.
3. NOT ALL RESTORATION REQUIREMENTS MAY BE SHOWN. THE CONTRACTOR SHALL RESTORE ALL EXISTING IMPROVEMENTS DAMAGED 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. FOR SCHEDULES E-F SEE PLAN NO. CK-R.12 FOR RESTORATION & PATCHING.
5. ASPHALT PLANING SHALL BE PER DETAIL SPECIFICATION 3.7. FOR SCHEDULES E-F SEE PLAN NO. CK-R.13B FOR FULL WIDTH PLANING.

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
- CONCRETE SLAB REMOVAL AND REPLACEMENT

RESTORATION NOTES

- 1 ADJUST ALL UTILITY CASTINGS TO FINISHED GRADE
- 2 2" SAWCUT OR GRIND. SEAL WITH AR4000W (TYP.)
- 3 THOROUGHLY TACK ALL EDGES (TYP.)
- 4 OVERLAY. FOR SCHEDULES E-G SEE ALSO PLAN NO. CK-R.13A
- 5 REMOVE AND REPLACE MONUMENT
- 6 REMOVE, REPLACE AND ADJUST SANITARY SEWER CASTINGS TO FINISHED GRADE (TYP.). SEE DETAIL 20 SHEET 25.

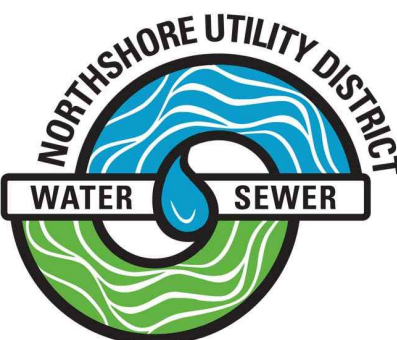


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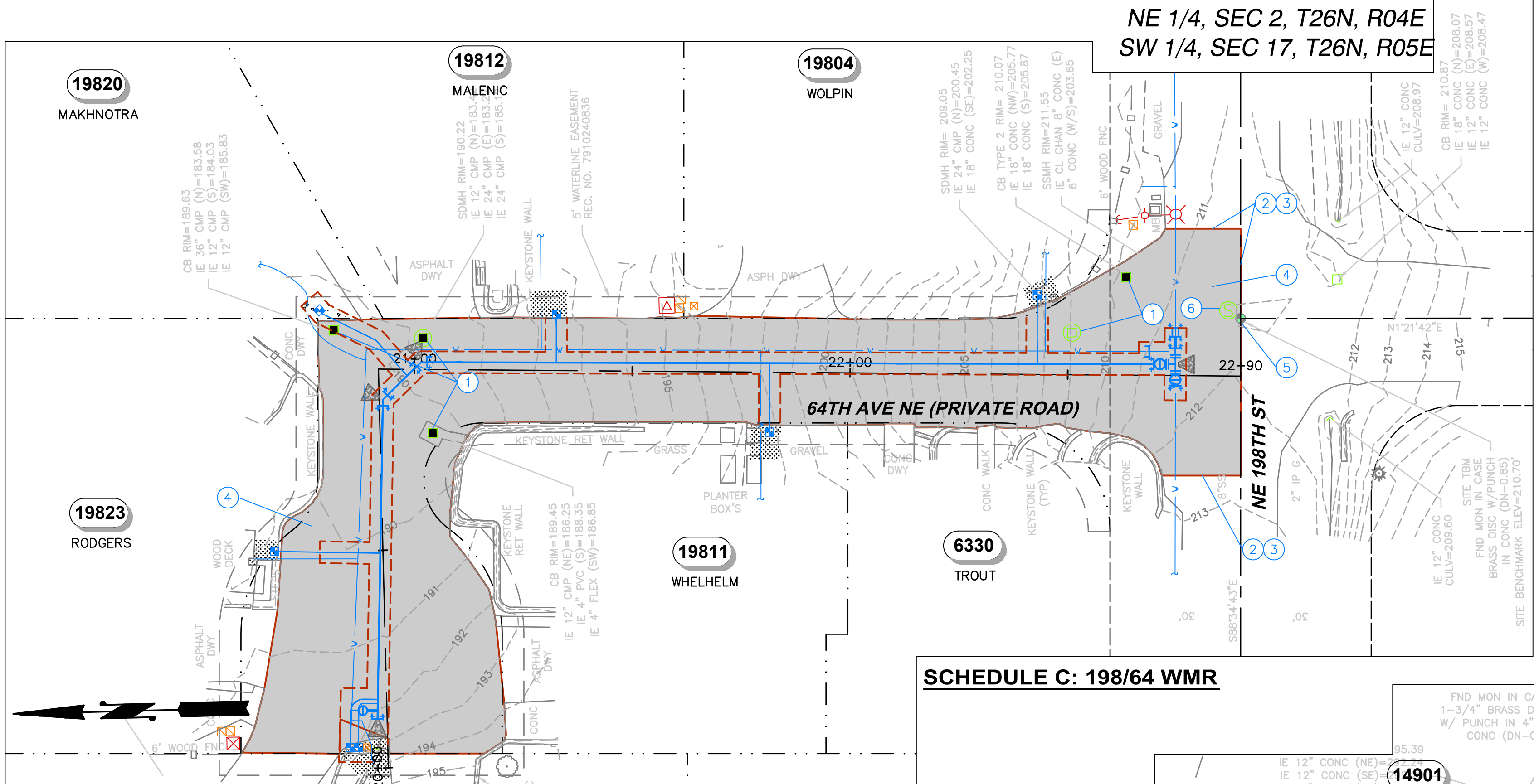
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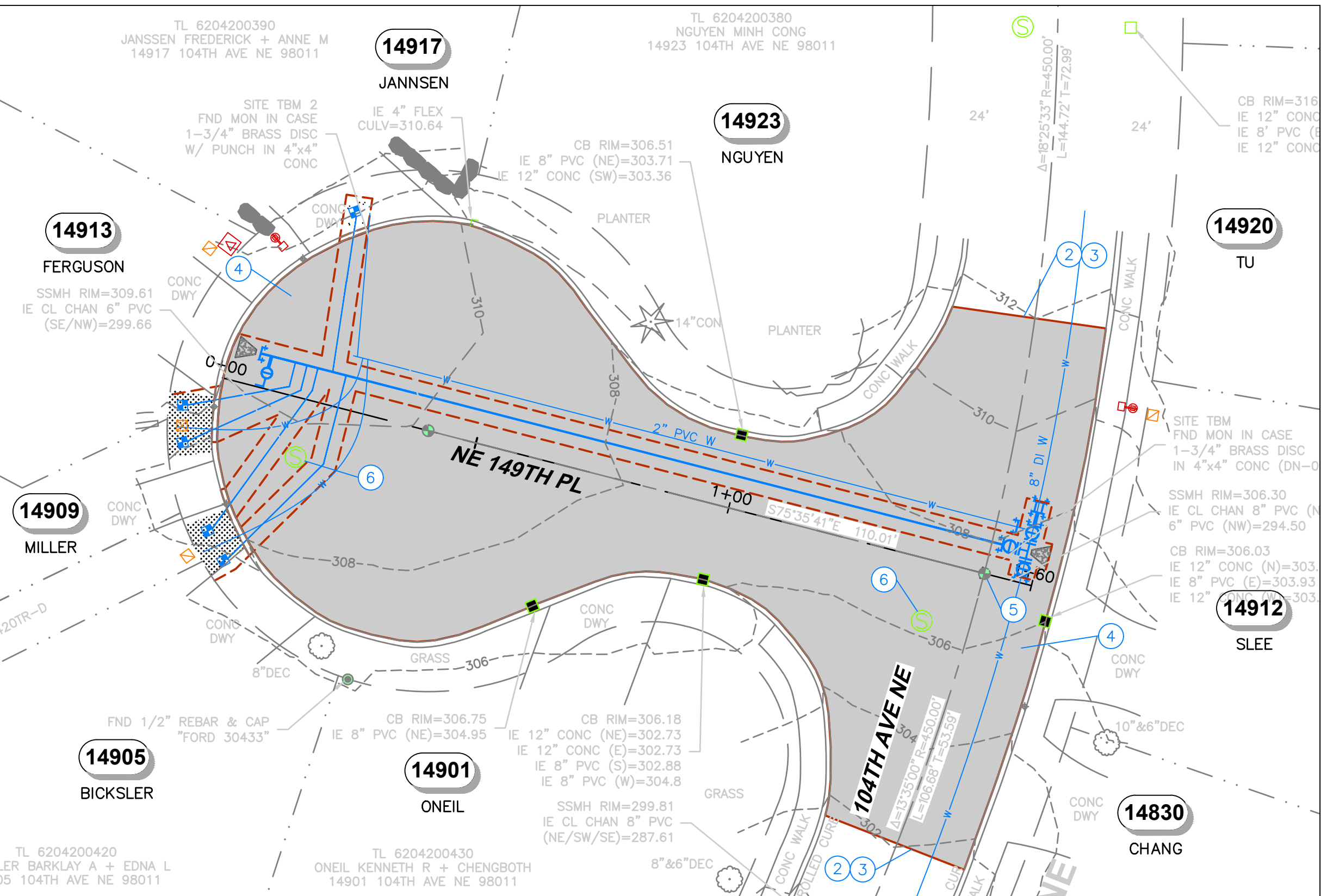
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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT
**RESTORATION PLANS
SCHEDULE B**

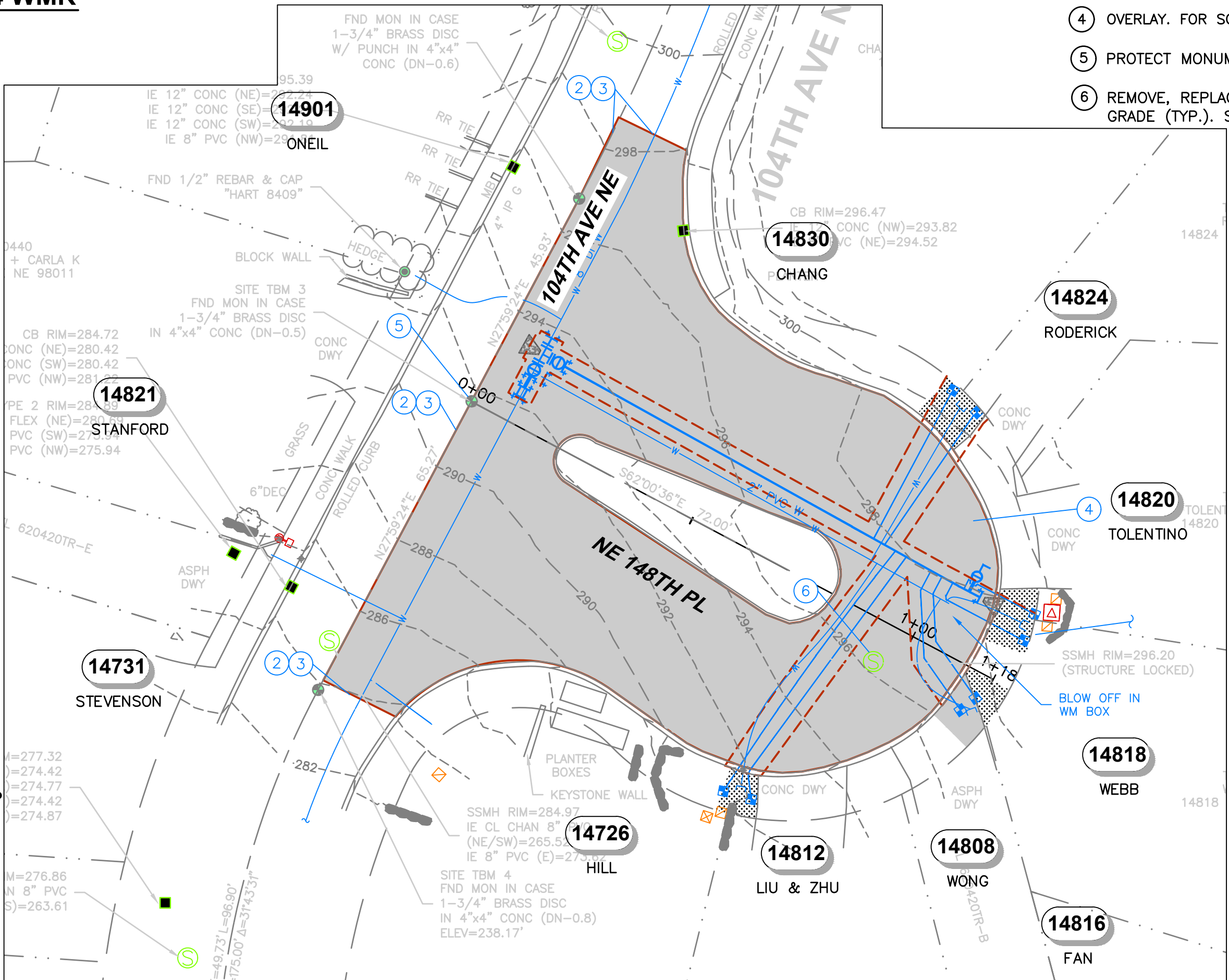
BASE MAP B1
C2106
SHEET
16 OF 25



SCHEDULE C: 198/64 WMR



SCHEDULE D: 145/104 WMR



SCHEDULE D: 145/104 WMR

GENERAL NOTES PRINT IN COLOR

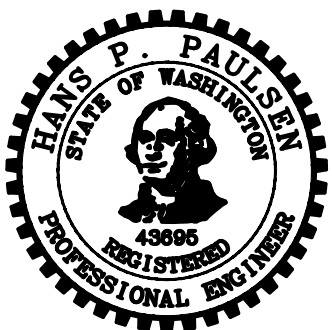
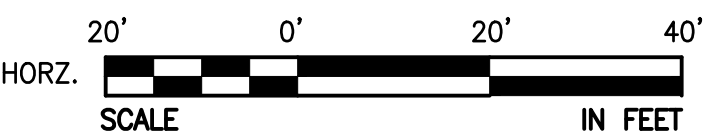
- SEE SPECIFICATIONS FOR WORK AND PAYMENT INCLUDED IN GENERAL RESTORATION.
- GRASS AREAS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE RESTORED WITH 4" OF TOPSOIL AND SOD PER THE SPECIFICATIONS.
- NOT ALL RESTORATION REQUIREMENTS MAY BE SHOWN. THE CONTRACTOR SHALL RESTORE ALL EXISTING IMPROVEMENTS DAMAGED 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.
- PROVIDE A T-CUT AFTER TRENCH EXCAVATION, BACKFILL, AND COMPACTION. FOR SCHEDULES E-F SEE PLAN NO. CK-R.12 FOR RESTORATION & PATCHING.
- ASPHALT PLANING SHALL BE PER DETAIL SPECIFICATION 3.7. FOR SCHEDULES E-F SEE PLAN NO. CK-R.13B FOR FULL WIDTH PLANING.

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
- CONCRETE SLAB REMOVAL AND REPLACEMENT

RESTORATION NOTES

- ADJUST ALL UTILITY CASTINGS TO FINISHED GRADE
- 2" SAWCUT OR GRIND. SEAL WITH AR4000W (TYP.)
- THOROUGHLY TACK ALL EDGES (TYP.)
- OVERLAY. FOR SCHEDULES E-G SEE ALSO PLAN NO. CK-R.13A
- PROTECT MONUMENT
- REMOVE, REPLACE AND ADJUST SANITARY SEWER CASTINGS TO FINISHED GRADE (TYP.). SEE DETAIL 20 SHEET 25.



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CONTRACT C2106
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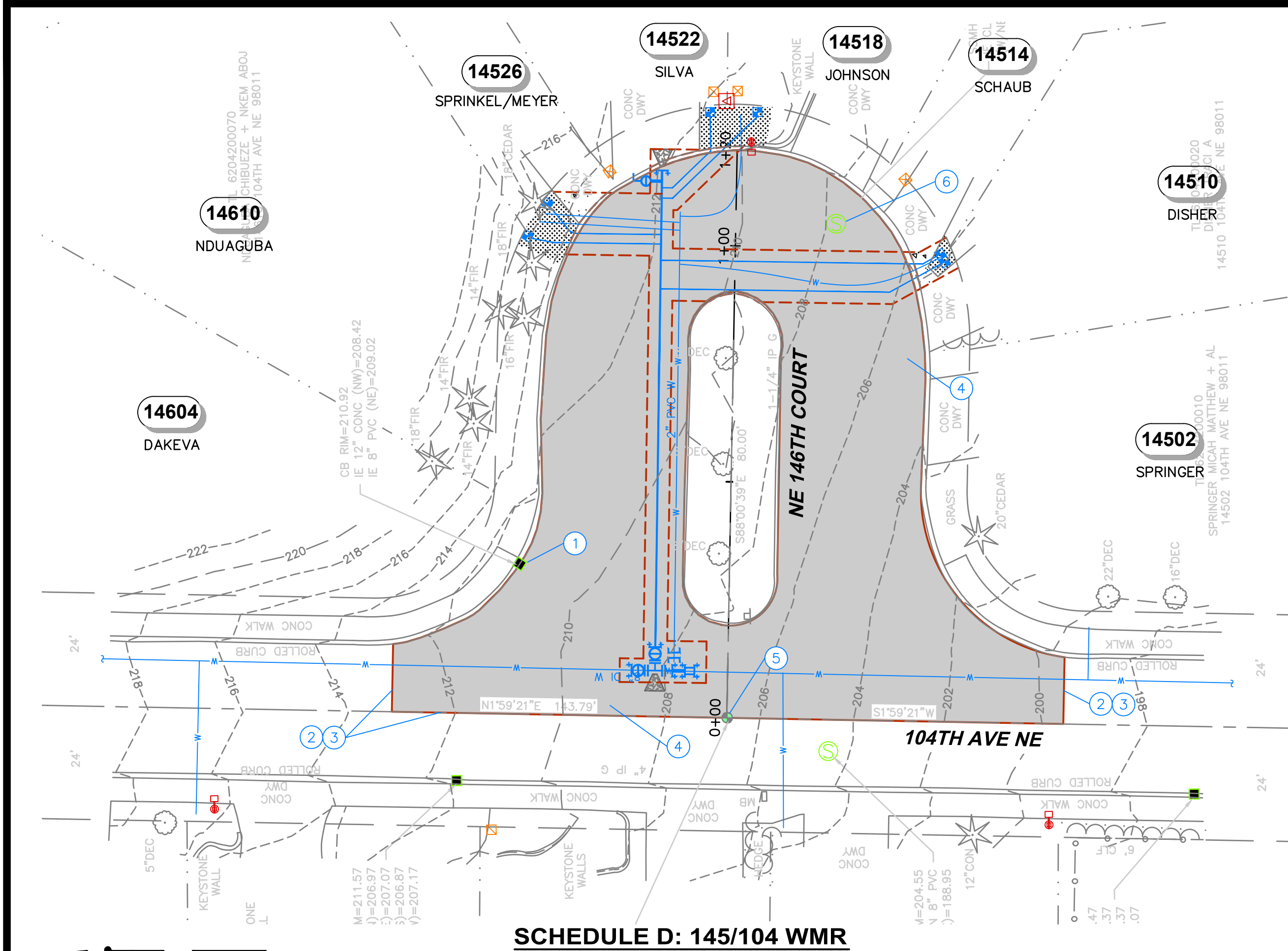
RESTORATION PLANS
SCHEDULES C & D

BASE MAP A4

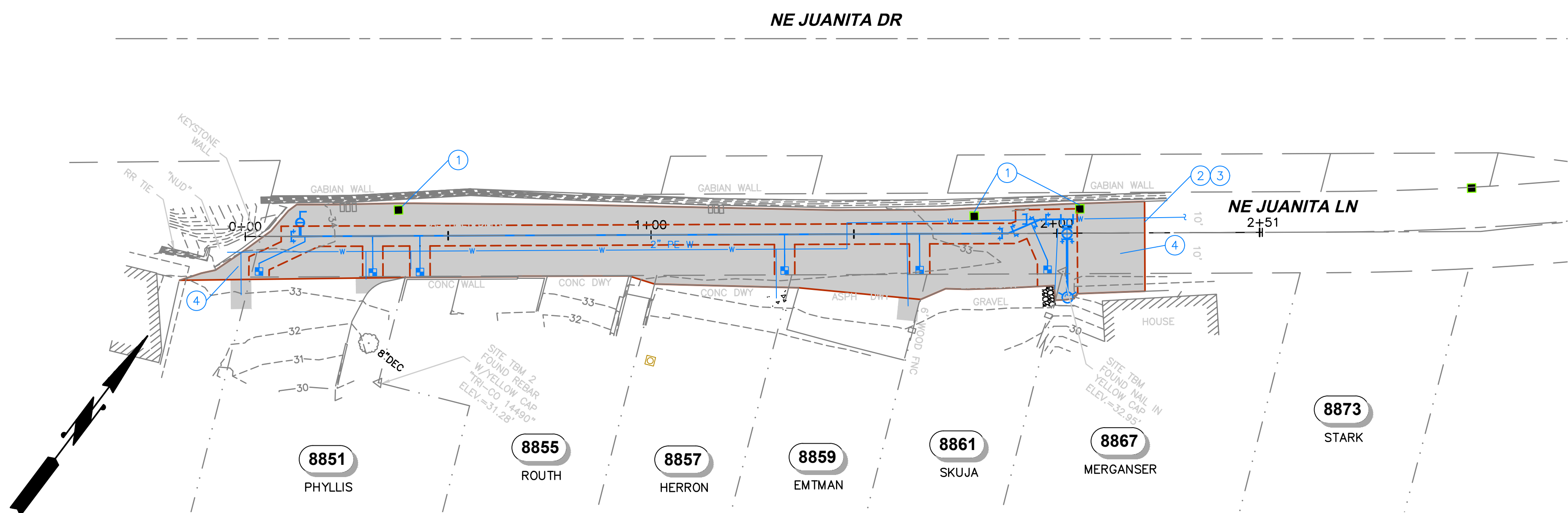
C2106

SHEET

17 OF 25



SCHEDULE D: 145/104 WMR



SCHEDULE E: JUANITA/88 WMR

NW 1/4, SEC 31, T26N, R05E
SW 1/4, SEC 17, T26N, R05E

GENERAL NOTES

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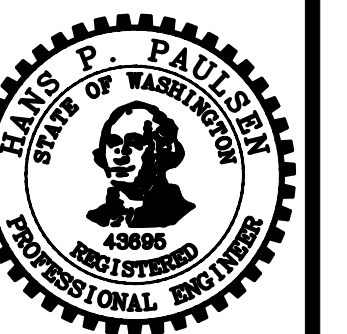
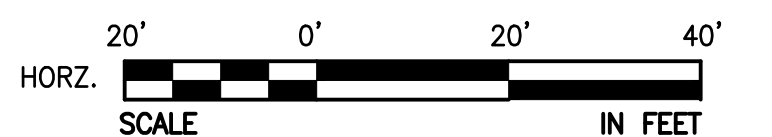
- SEE SPECIFICATIONS FOR WORK AND PAYMENT INCLUDED IN GENERAL RESTORATION.
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LEGEND

- | | |
|--|------------------------------------------------------|
| | ROADWAY SAWCUT AND TRENCH PATCH (APPROXIMATE LIMITS) |
| | 2" HOT MIX ASPHALT CLASS 1/2" BUTT GRIND AND OVERLAY |
| | LANDSCAPE RESTORATION TO MATCH EXISTING CONDITIONS |
| | CONCRETE SLAB REMOVAL AND REPLACEMENT |

RESTORATION NOTES

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- REMOVE, REPLACE AND ADJUST SANITARY SEWER CASTINGS TO FINISHED GRADE (TYP.). SEE DETAIL 20 SHEET 25.

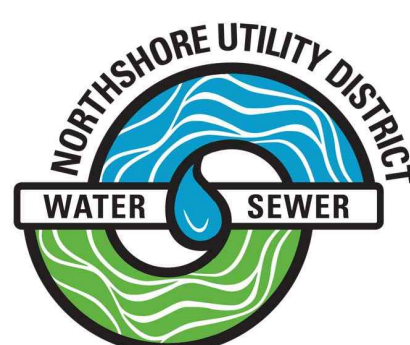


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CONTRACT C2106
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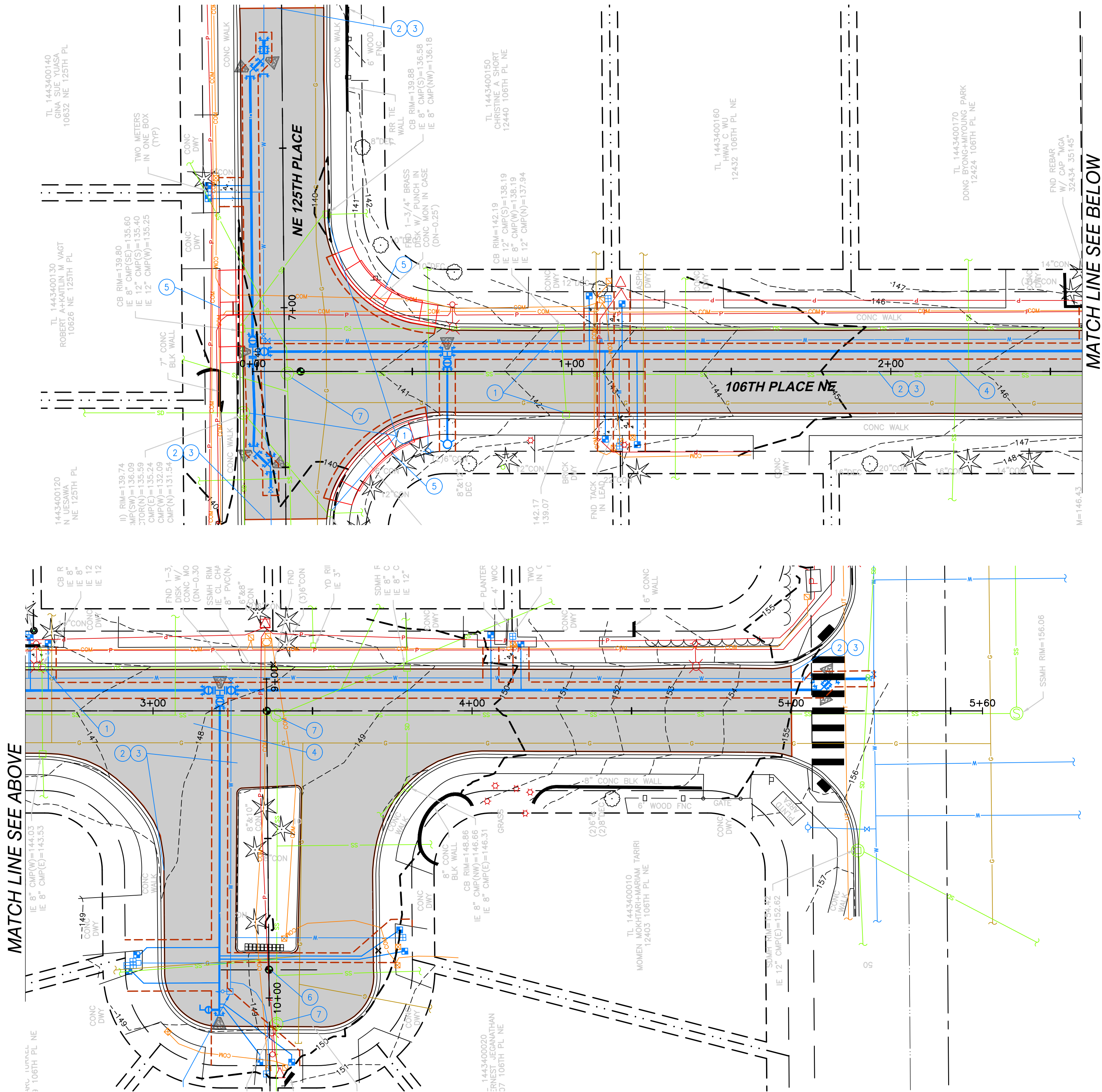
RESTORATION PLANS SCHEDULES D & E

BASE MAP A4

C2106

SHEET

18 OF 25



GENERAL NOTES PRINT IN COLOR

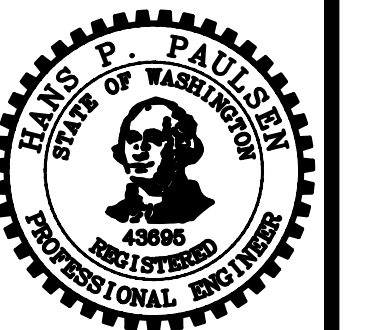
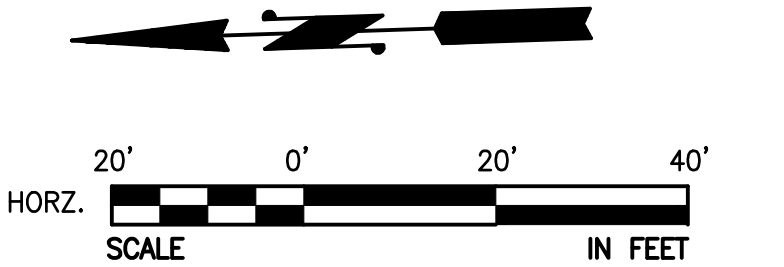
- SEE SPECIFICATIONS FOR WORK AND PAYMENT INCLUDED IN GENERAL RESTORATION.
- GRASS AREAS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE RESTORED WITH 4" OF TOPSOIL AND SOD PER THE SPECIFICATIONS.
- NOT ALL RESTORATION REQUIREMENTS MAY BE SHOWN. THE CONTRACTOR SHALL RESTORE ALL EXISTING IMPROVEMENTS DAMAGED 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.
- PROVIDE A T-CUT AFTER TRENCH EXCAVATION, BACKFILL, AND COMPACTION. FOR SCHEDULES E-F SEE PLAN NO. CK-R.12 FOR RESTORATION & PATCHING.
- ASPHALT PLANING SHALL BE PER DETAIL SPECIFICATION 3.7. FOR SCHEDULES E-F SEE PLAN NO. CK-R.13B FOR FULL WIDTH PLANING.

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
- CONCRETE SLAB REMOVAL AND REPLACEMENT

RESTORATION NOTES

- ADJUST ALL UTILITY CASTINGS TO FINISHED GRADE
- 2" SAWCUT OR GRIND. SEAL WITH AR4000W (TYP.)
- THOROUGHLY TACK ALL EDGES (TYP.)
- OVERLAY. FOR SCHEDULES E-G SEE ALSO PLAN NO. CK-R.13A
- SEE SHEET 23 FOR ADA RAMP LAYOUTS AND APPLICABLE DETAILS. RAMPS SHALL CONFORM TO ALL STANDARDS AND DETAILS AS REQUIRED BY THE CITY OF KIRKLAND AND WSDOT.
- REMOVE AND REPLACE MONUMENT
- REMOVE, REPLACE AND ADJUST SANITARY SEWER CASTINGS TO FINISHED GRADE (TYP.). SEE DETAIL 20 SHEET 25.

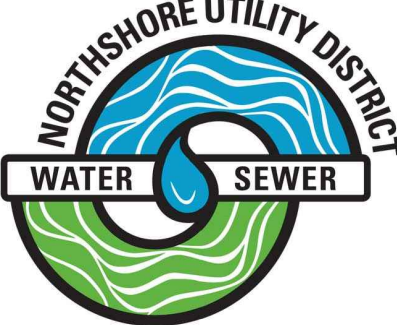


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WARNING
0 1/2 1
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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT

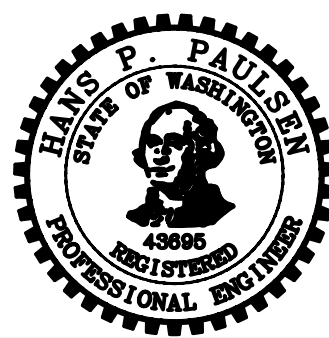
RESTORATION PLANS
SCHEDULE G

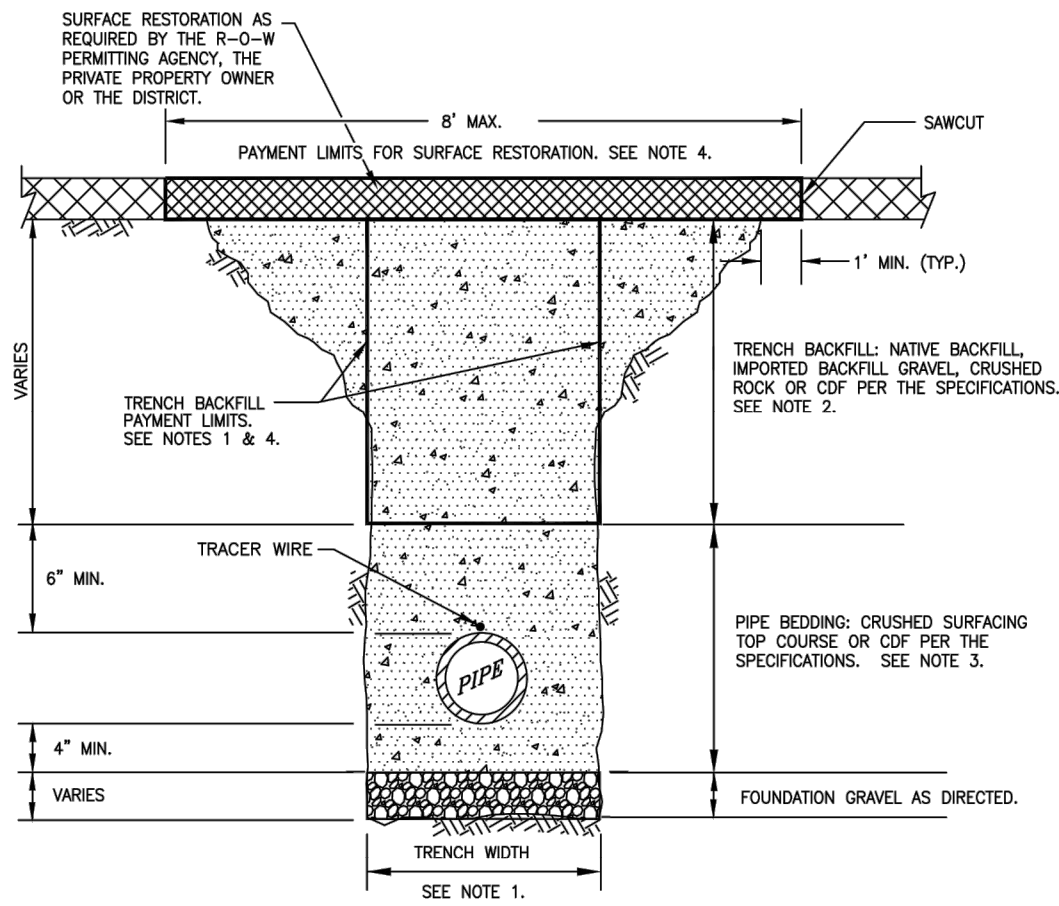
BASE MAP K6

C2106

SHEET

20 OF 25





- NOTES:**
- TRENCH WIDTH:
MINIMUM: PIPE O.D. + 24" (12" EACH SIDE OF PIPE).
MAXIMUM: 36" FOR 12" PIPE AND SMALLER.
THE NEAT-LINE PAYMENT LIMITS FOR TRENCH BACKFILL MATERIALS SHALL BE BASED UPON THE ACTUAL TRENCH WIDTH WITHIN THE MAXIMUM ALLOWED.
 - NATIVE MATERIAL, IF ALLOWED FOR TRENCH BACKFILL, SHALL MEET THE REQUIREMENTS OF SELECT BORROW PER THE SPECIFICATIONS. TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) OF MODIFIED PROCTOR IN THE RIGHT-OF-WAY AND IMPROVED EASEMENTS AND TO NINETY PERCENT (90%) IN UNIMPROVED EASEMENT AREAS. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - NATIVE MATERIAL WILL NOT BE ALLOWED AS PIPE BEDDING.
 - THE NEAT-LINE LIMITS SHOWN WILL BE USED TO CALCULATE THE MAXIMUM QUANTITY OF TRENCH BACKFILL AND SURFACE RESTORATION MATERIALS ALLOWED. PAYMENT FOR BEDDING GRAVEL WILL BE CONSIDERED INCIDENTAL TO PAYMENT MADE FOR PIPE. PAYMENT FOR FOUNDATION ROCK WILL BE BASED UPON THE QUANTITIES USED AS DIRECTED BY THE DISTRICT. ADDITIONAL TRENCH WIDTH IS ALLOWED AT FITTINGS AND THRUSTBLOCKS. SEE THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION.
 - RECYCLED CONCRETE WILL NOT BE ALLOWED AS PIPE BEDDING OR TRENCH BACKFILL.
 - TRACER WIRE TO BE SECURED TO THE TOP OF THE PIPE USING TAPE OR WIRE TIES. LOOSE TRACER WIRE OR TRACER WIRE SECURED TO SIDE OF PIPE IS NOT ALLOWED.

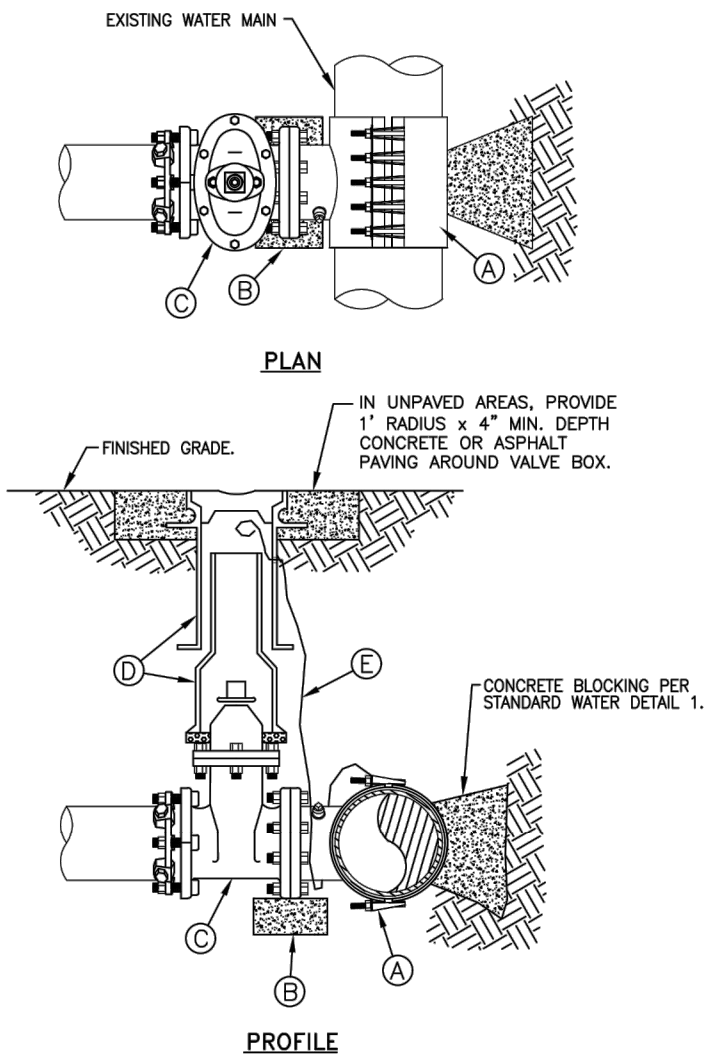
TYPICAL TRENCH SECTION & PAYMENT LIMITS

NOT TO SCALE

DETAIL APPROVALS
EDITOR TMC
ENG. DIR. CF

NORTHSHORE UTILITY DISTRICT
2025 STANDARD WATER DETAILS

12
LAST UPDATED
MAY 2025



- MATERIALS LIST**
- | ITEM | DESCRIPTION |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | STAINLESS STEEL TAPPING TEE WITH DI FLANGE, ROMAC SST, FORD FAST, OR JCM 462. |
| B | PRECAST 4"x8"x16" CONCRETE BLOCK. |
| C | R.W. GATE VALVE, F.L.R.J.: SHALL BE PER THE SPECIFICATIONS. FOR VALVE OPERATING NUT DEPTHS, SEE STANDARD WATER DETAIL #11. |
| D | TWO-PIECE VALVE BOX AND ETHAFDAM RING PER THE SPECIFICATIONS AND STANDARD WATER DETAIL #11. |
| E | TRACER WIRE: DIRECT BURY BLUE 14 GAUGE COPPER, CONTINUOUS, SOLID CORE, POLYETHYLENE INSULATED WIRE PER THE SPECIFICATIONS. CONTINUOUS FROM MAINLINE. |

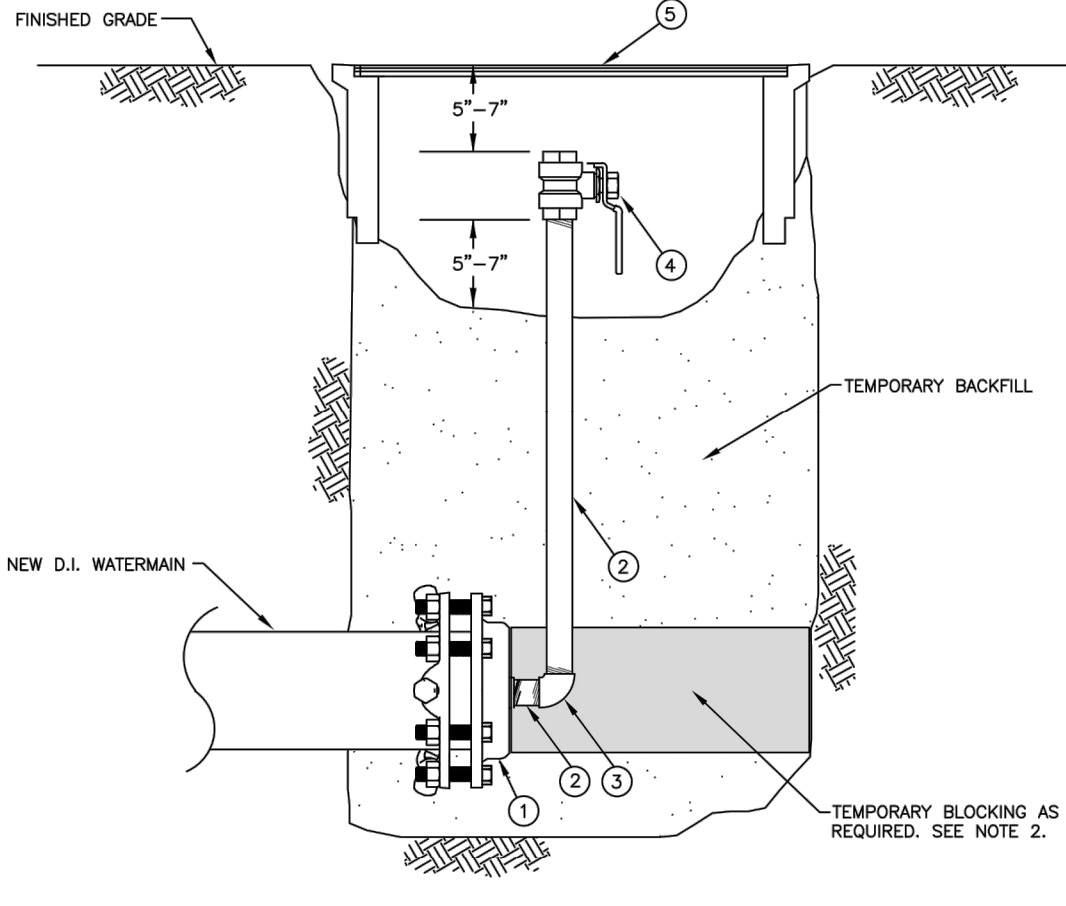
TAPPING TEE AND GATE VALVE

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NORTHSHORE UTILITY DISTRICT
2025 STANDARD WATER DETAILS

20
LAST UPDATED
JANUARY 2023



MATERIALS LIST

- | ITEM | QTY. | DESCRIPTION |
|------|------|--------------------------------------------------|
| 1 | 1 | TAPPED & THREADED D.I. CAP, RJ WITH 2" IP TAP. |
| 2 | 2 | 2" GALVANIZED PIPE, LENGTH TO FIT. |
| 3 | 1 | 2" 90° GALVANIZED ELBOW, FIPxPIP. |
| 4 | 1 | 2" BALL VALVE, FIPxPIP, MATCO 75770BLF OR EQUAL. |
| 5 | 1 | TRAFFIC RATED BOX AND COVER, OR EQUAL. |

NOTES:

- NUMBER AND LOCATION OF THE TEMPORARY BLOW-OFFS WILL BE AS SHOWN ON THE DESIGN PLANS OR AS DIRECTED BY THE DISTRICT IN THE FIELD.
- PROVIDE TEMPORARY BLOCKING FOR BLOW-OFFS TO RESIST TEST PRESSURES.

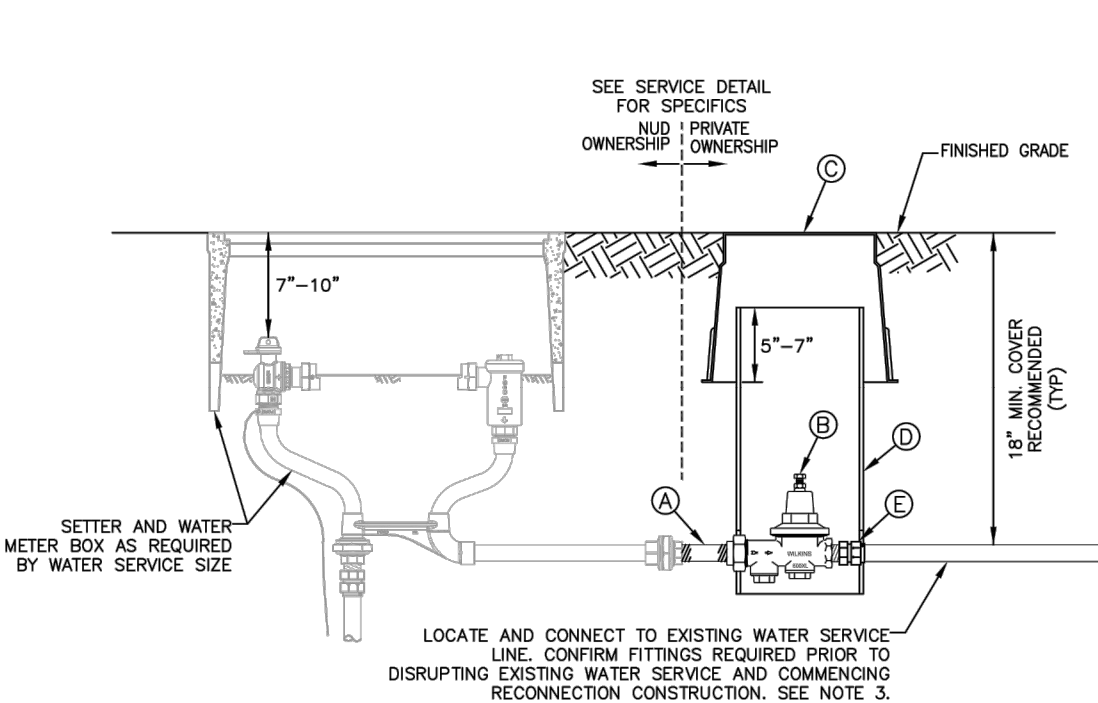
**TEMPORARY BLOW-OFF ASSEMBLY
FOR NEW WATERMAIN**

NOT TO SCALE

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NORTHSHORE UTILITY DISTRICT
2025 STANDARD WATER DETAILS

17
LAST UPDATED
FEBRUARY 2020



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-23, 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 POTHOLE 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.

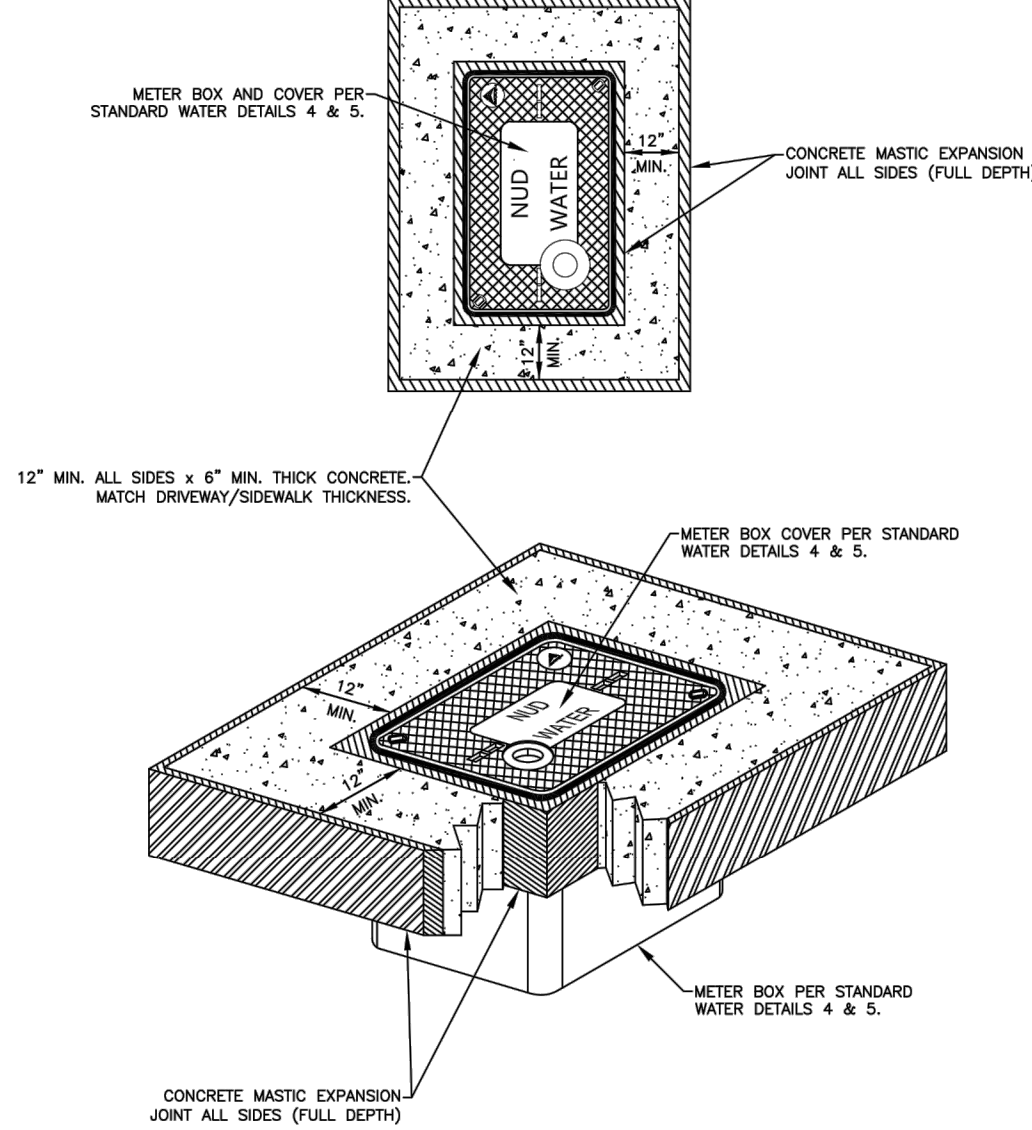
PRESSURE REDUCING VALVE (PRV)

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NORTHSHORE UTILITY DISTRICT
2025 STANDARD WATER DETAILS

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LAST UPDATED
FEBRUARY 2020



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.

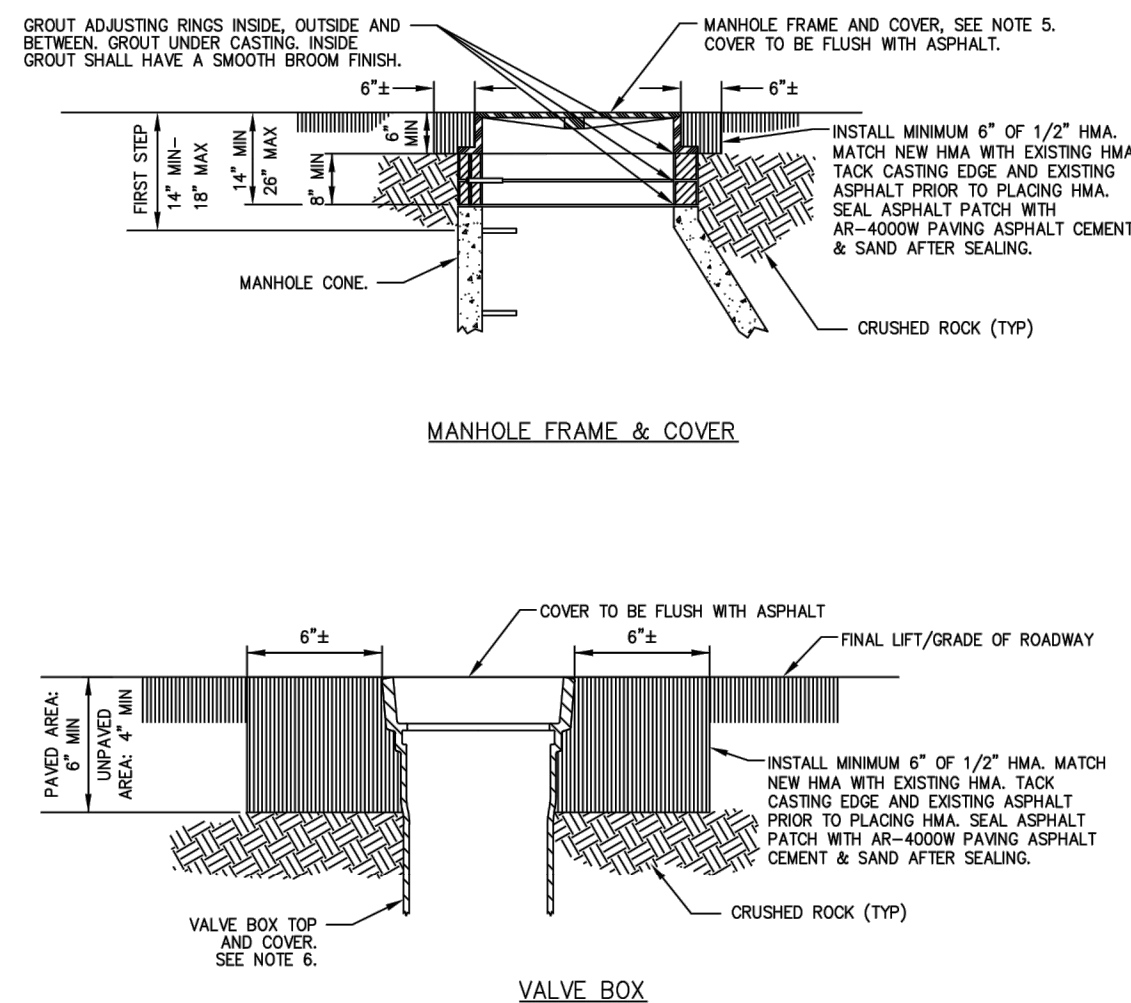
**METER BOX BLOCK OUT FOR
DRIVEWAYS AND SIDEWALKS**

NOT TO SCALE

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NORTHSHORE UTILITY DISTRICT
2025 STANDARD WATER DETAILS

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LAST UPDATED
APRIL 2021



NOTES:

- PRIOR TO CASTING ADJUSTMENT, CONTRACTOR TO PROTECT EXISTING FACILITIES. FOR SEWER MANHOLES, COVER THE BASE AND CHANNEL TO PREVENT DEBRIS FROM ENTERING THE SEWER SYSTEM. FOR WATER VALVE BOXES, PROTECT WATER VALVE TO PREVENT DEBRIS FROM IMPACTING THE OPERATING NUT. WHEN REMOVAL AND REPLACEMENT OF VALVE BOX TOP IS REQUIRED, ALL DIRT AND DEBRIS IS TO BE REMOVED FROM AROUND OPERATING NUT BEFORE PLACING NEW VALVE BOX TOP.
- SEE STANDARDS FOR INSTALLATION, "ADJUSTMENT OF NEW AND EXISTING UTILITY STRUCTURES TO GRADE", FOR ADDITIONAL INFORMATION REGARDING RAISING CASTINGS TO GRADE.
- AN ASPHALT COLLAR IS REQUIRED ON ALL INSTALLATIONS IN PAVED AREAS. THICKNESS OF COLLAR TO BE 6" FOR ALL NUD CASTINGS.
- AN ASPHALT OR CONCRETE COLLAR IS REQUIRED ON ALL INSTALLATIONS IN UNIMPROVED OR UNPAVED AREAS. CONCRETE SHALL HAVE A BROOM OR TROWEL FINISH. THICKNESS OF COLLAR SHALL BE 6" FOR MANHOLE FRAME AND COVERS, AND 4" FOR VALVE BOX TOPS.
- MANHOLE FRAME AND COVER SHALL BE EAST JORDAN IRONWORKS ERGO ASSEMBLY, PART #001040105L01.
- CAST IRON VALVE BOX TOP AND COVER SHALL BE EAST JORDAN IRONWORKS: VALVE BOX COVER, PART #06800209, AND VALVE BOX TOP, PART #05557016U.
- DURING CONSTRUCTION, UTILITIES MUST BE IDENTIFIED AND REMAIN ACCESSIBLE AT ALL TIMES.

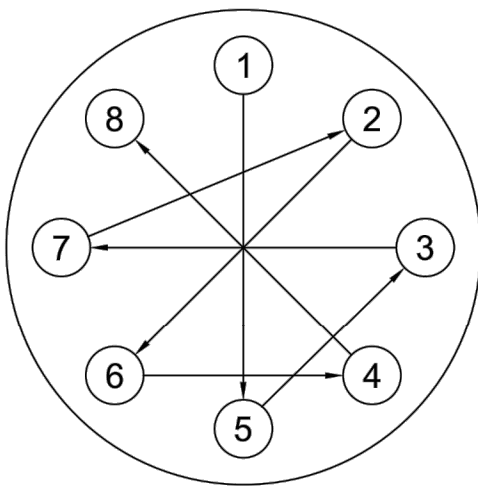
CASTING ADJUSTMENT

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NORTHSHORE UTILITY DISTRICT
2025 STANDARD WATER DETAIL

22
LAST UPDATED
MAY 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 ANWA C110, AND ANSI CLASS 125 AND 150 FLANGES.

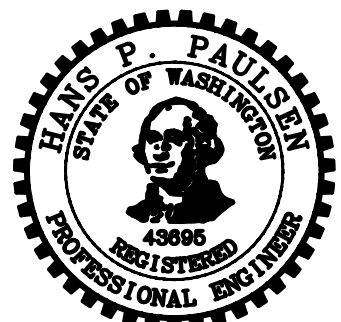
BOLT TIGHTENING SEQUENCE

NOT TO SCALE

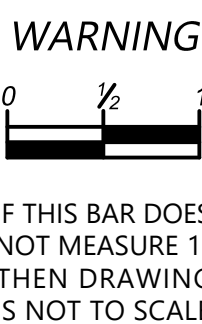
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2025 STANDARD WATER DETAILS

19
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CONTRACT C2106
SMALL DIAMETER HIGH PRESSURE WATER MAIN REPLACEMENT

WATER DETAILS

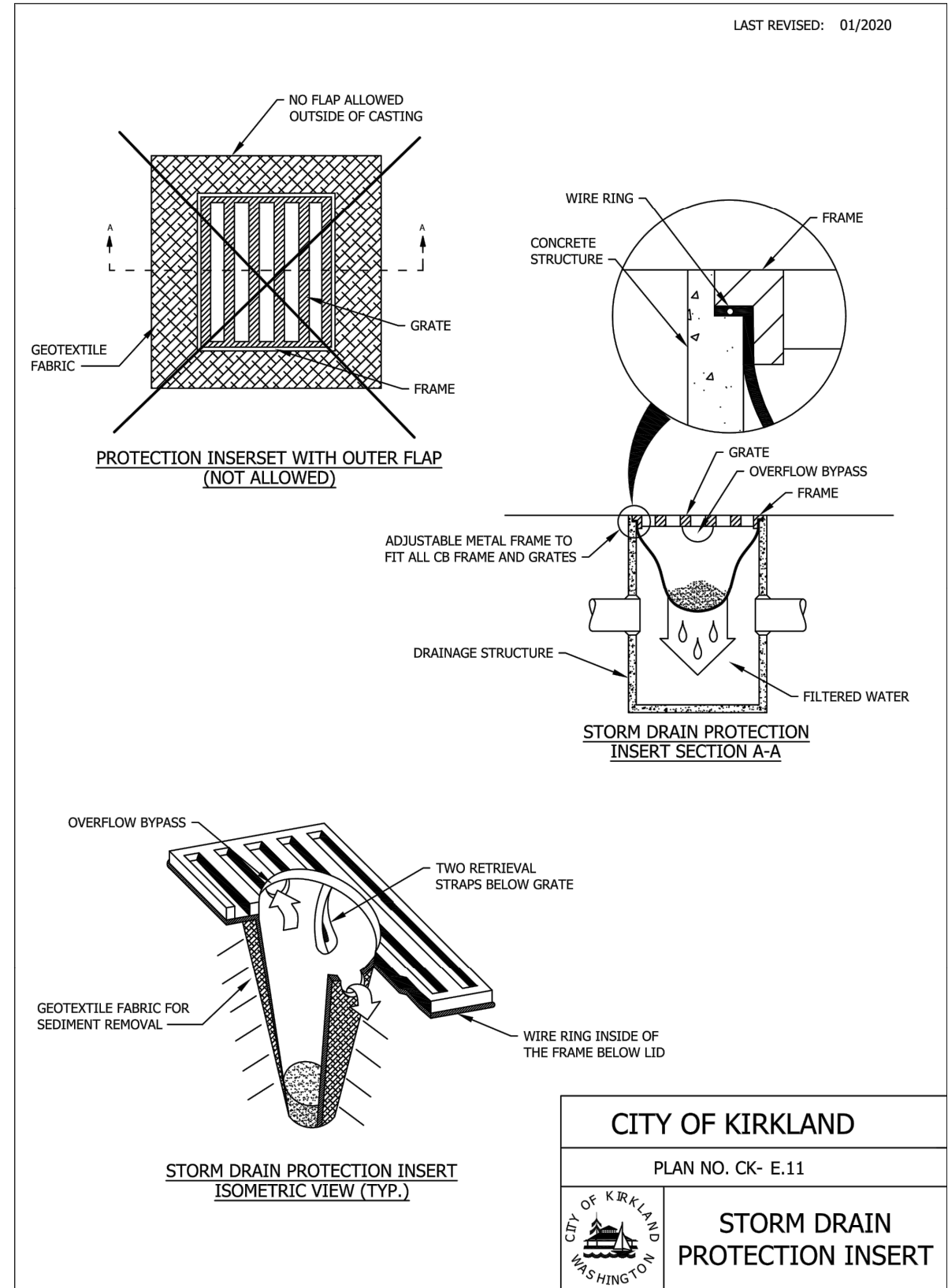
C2106

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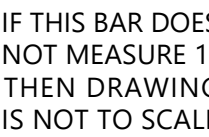
22 OF 25

- a. APPROVED CONSTRUCTION SEQUENCE SHALL BE AS FOLLOWS:
 - a. CONDUCT PRE-CONSTRUCTION MEETING.
 - b. FLAG OR FENCE CLEARING LIMITS.
 - c. POST SIGN WITH NAME AND PHONE NUMBER OF TESC SUPERVISOR.
 - d. INSTALL CATCH BASIN PROTECTION DOWNSTREAM AND AS DETERMINED BY THE CITY INSPECTOR.
 - e. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
 - f. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
 - g. CONSTRUCT SEDIMENT PONDS AND TRAPS.
 - h. GRADE AND STABILIZE CONSTRUCTION ROADS.
 - i. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
 - j. MAINTAIN EROSION CONTROL MEASURE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
 - k. RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS.
 - l. COVER ALL AREAS WITHIN THE SPECIFIED TIME FRAME WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, CRUSHED ROCK OR EQUIVALENT.
 - m. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN 7 DAYS.
 - n. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
 - o. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES REMOVED IF APPROPRIATE.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS CLEAN AND FREE OF CONTAMINANTS AT ALL TIMES AND FOR PREVENTING AN ILLICIT DISCHARGE (KMC 15.52) INTO A MUNICIPAL STORM DRAIN SYSTEM. IF YOUR CONSTRUCTION PROJECT CAUSES AN ILLICIT DISCHARGE TO THE MUNICIPAL STORM DRAIN SYSTEM, THE CITY OF KIRKLAND STORM MAINTENANCE DIVISION WILL BE CALLED TO CLEAN THE PUBLIC STORM SYSTEM, AND OTHER AFFECTED PUBLIC INFRASTRUCTURE. THE CONTRACTOR(S), PROPERTY OWNER, VENDOR, AND ANY OTHER RESPONSIBLE PARTY MAY BE CHARGED ALL COSTS ASSOCIATED WITH THE CLEAN-UP AND MAY ALSO BE ASSESSED A FINE (KMC 1.12.200). THE MINIMUM FINE IS \$500. A FINE FOR A REPEAT VIOLATION SHALL BE DETERMINED BY MULTIPLYING THE SURFACE WATER FINE BY THE NUMBER OF VIOLATIONS. A FINE MAY BE REDUCED OR WAIVED FOR PERSONS WHO IMMEDIATELY SELF-REPORT VIOLATION TO THE CITY AT 425-587-3900. A FINAL INSPECTION OF YOUR PROJECT WILL NOT BE GRANTED UNTIL ALL COSTS ASSOCIATED WITH THE CLEAN-UP, AND PENALTIES, ARE PAID TO THE CITY OF KIRKLAND.
3. CONSTRUCTION DEWATERING DISCHARGES SHALL ALWAYS MEET WATER QUALITY GUIDELINES LISTED IN COK POLICY E-1. SPECIFICALLY, DISCHARGES TO THE PUBLIC STORMWATER DRAINAGE SYSTEM MUST BE BELOW 25 NTU, AND NOT CONSIDERED AN ILLICIT DISCHARGE (PER KMC 15.52.090). TEMPORARY DISCHARGES TO SANITARY SEWER REQUIRE PRIOR AUTHORIZATION AND PERMIT FROM KING COUNTY INDUSTRIAL WASTE PROGRAM (206-477-5300) AND NOTIFICATION TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
4. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF KIRKLAND STANDARDS AND SPECIFICATIONS.
5. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE SET BY SURVEY AND CLEARLY FLAGGED IN THE FIELD BY A CLEARING CONTROL FENCE PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE OR REMOVAL OF ANY GROUND COVER BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE PERMITTEE/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
6. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
7. THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
8. A COPY OF THE APPROVED ESC PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
9. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
10. THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY OF KIRKLAND INSPECTOR.
11. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ALL SITE CONDITIONS THAT MAY BE CREATED BY THEIR ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
12. THE ESC FACILITIES SHALL BE INSPECTED BY THE PERMITTEE/CONTRACTOR DAILY DURING NON-RAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT, AND AT THE END OF EVERY RAINFALL, AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED. WRITTEN RECORDS SHALL BE KEPT DOCUMENTING THE REVIEWS OF THE ESC FACILITIES.
13. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT.
14. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
15. ALL DENUDED SOILS MUST BE STABILIZED WITH AN APPROVED TESC METHOD (E.G. SEEDING, MULCHING, PLASTIC COVERING, CRUSHED ROCK) WITHIN THE FOLLOWING TIMELINES:

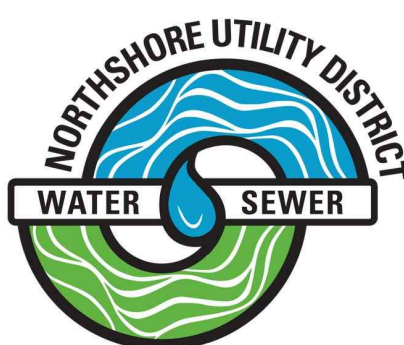
- MAY 1 TO SEPTEMBER 30 – SOILS MUST BE STABILIZED WITHIN 7 DAYS OF GRADING.
- OCTOBER 1 TO APRIL 30 – SOILS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING.
- STABILIZE SOILS AT THE END OF THE WORKDAY PRIOR TO A WEEKEND, HOLIDAY, OR PREDICTED RAIN EVENT.
16. THE LONG-TERM USE OF PLASTIC COVERING ON A SITE SHALL BE LIMITED TO ONE WET SEASON (OCTOBER 1 TO APRIL 30). AFTER THAT, THE SITE WILL BE REQUIRED TO HYDROSEED OR INSTALL OTHER TESC METHODS AS APPROVED BY THE PUBLIC WORKS DEPARTMENT.
17. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
18. WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2".
19. ALL LOTS ADJOINING OR HAVING ANY NATIVE GROWTH PROTECTION EASEMENTS (NGPE) SHALL HAVE A 6' HIGH TEMPORARY CONSTRUCTION FENCE (CHAIN LINK WITH PIER BLOCKS) SEPARATING THE LOT (OR BUILDABLE PORTIONS OF THE LOT) FROM THE AREA RESTRICTED BY THE NGPE AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR CLEARING AND REMAIN IN PLACE UNTIL THE PLANNING DEPARTMENT AUTHORIZES REMOVAL.
20. CLEARING LIMITS SHALL BE DELINEATED WITH A CLEARING CONTROL FENCE. THE CLEARING CONTROL FENCE SHALL CONSIST OF A 6-FT. HIGH CHAIN LINK FENCE ADJACENT THE DRIP LINE OF TREES TO BE SAVED, WETLAND OR STREAM BUFFERS, AND SENSITIVE SLOPES. CLEARING CONTROL FENCES ALONG WETLAND OR STREAM BUFFERS OR UPSLOPE OF SENSITIVE SLOPES SHALL BE ACCOMPANIED BY AN EROSION CONTROL FENCE. IF APPROVED BY THE CITY, A FOUR-FOOT HIGH ORANGE MESH CLEARING CONTROL FENCE MAY BE USED TO DELINEATE CLEARING LIMITS IN ALL OTHER AREAS.
21. SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET SYSTEM, THE STREET SHALL BE IMMEDIATELY CLEANED WITH POWER SWEEPER OR OTHER EQUIPMENT. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS.
22. FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1' AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8" ROCK/40%-70% PASSING; 2"-4" ROCK/30%-40% PASSING; AND 1"-2" ROCK/10%-20% PASSING. RECYCLED CONCRETE SHALL NOT BE USED FOR EROSION PROTECTION, INCLUDING CONSTRUCTION ENTRANCE OR TEMPORARY STABILIZATION ELSEWHERE ON THE SITE.
23. IF ANY PART(S) OF THE CLEARING LIMIT BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY.
24. ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.
25. AT NO TIME SHALL MORE THAN 1' OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED IMMEDIATELY FOLLOWING REMOVAL OF EROSION CONTROL BMPs. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
26. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.
27. ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6" MUST HAVE A PERIMETER FENCE WITH A MINIMUM HEIGHT OF 3'.
28. THE WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCE SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS NONFUNCTIONAL BY EXCESSIVE SILT ACCUMULATION AS DETERMINED BY THE CITY OF KIRKLAND. ALSO, ALL INTERCEPTOR SWALES SHALL BE CLEANED IF SILT ACCUMULATION EXCEEDS ONE-QUARTER DEPTH.
29. PRIOR TO THE OCTOBER 1 OF EACH YEAR (THE BEGINNING OF THE WET SEASON), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. THE IDENTIFIED DISTURBED AREA SHALL BE SEEDD WITHIN ONE WEEK AFTER OCTOBER 1. A SITE PLAN DEPICTING THE AREAS TO BE SEEDD AND THE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR. THE INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.
30. ANY AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT (INCLUDING A 5-FOOT BUFFER) MUST BE SURROUNDED BY SILT FENCE PRIOR TO CONSTRUCTION AND UNTIL FINAL STABILIZATION OF THE SITE TO PREVENT SOIL COMPACTION AND SILTATION BY CONSTRUCTION ACTIVITIES.
31. IF THE TEMPORARY CONSTRUCTION ENTRANCE OR ANY OTHER AREA WITH HEAVY VEHICLE LOADING IS LOCATED IN THE SAME AREA TO BE USED FOR INFILTRATION OR PERVIOUS PAVEMENT, 6" OF SEDIMENT BELOW THE GRAVEL SHALL BE REMOVED PRIOR TO INSTALLATION OF THE INFILTRATION FACILITY OR PERVIOUS PAVEMENT (TO REMOVE FINES ACCUMULATED DURING CONSTRUCTION).
32. ANY CATCH BASINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF THE SITE, SHALL HAVE ADEQUATE PROTECTION FROM SEDIMENT. CATCH BASINS DIRECTLY DOWNSTREAM OF THE CONSTRUCTION ENTRANCE OR ANY OTHER CATCH BASIN AS DETERMINED BY THE CITY INSPECTOR SHALL BE PROTECTED WITH A "STORM DRAIN PROTECTION INSERT" OR EQUIVALENT.
33. IF A SEDIMENT POND IS NOT PROPOSED, A BAKER TANK OR OTHER TEMPORARY GROUND AND/OR SURFACE WATER STORAGE TANK MAY BE REQUIRED DURING CONSTRUCTION, DEPENDING ON WEATHER CONDITIONS.
34. DO NOT FLUSH CONCRETE BY-PRODUCTS OR TRUCKS NEAR OR INTO THE STORM DRAINAGE SYSTEM. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM SYSTEM, IT COULD MEAN RE-CLEANING THE ENTIRE DOWNSTREAM STORM SYSTEM, OR POSSIBLY RE-LAYING THE STORM LINE.
35. RECYCLED CONCRETE SHALL NOT BE STOCKPILED ON SITE, UNLESS FULLY COVERED WITH NO POTENTIAL FOR RELEASE OF RUNOFF.



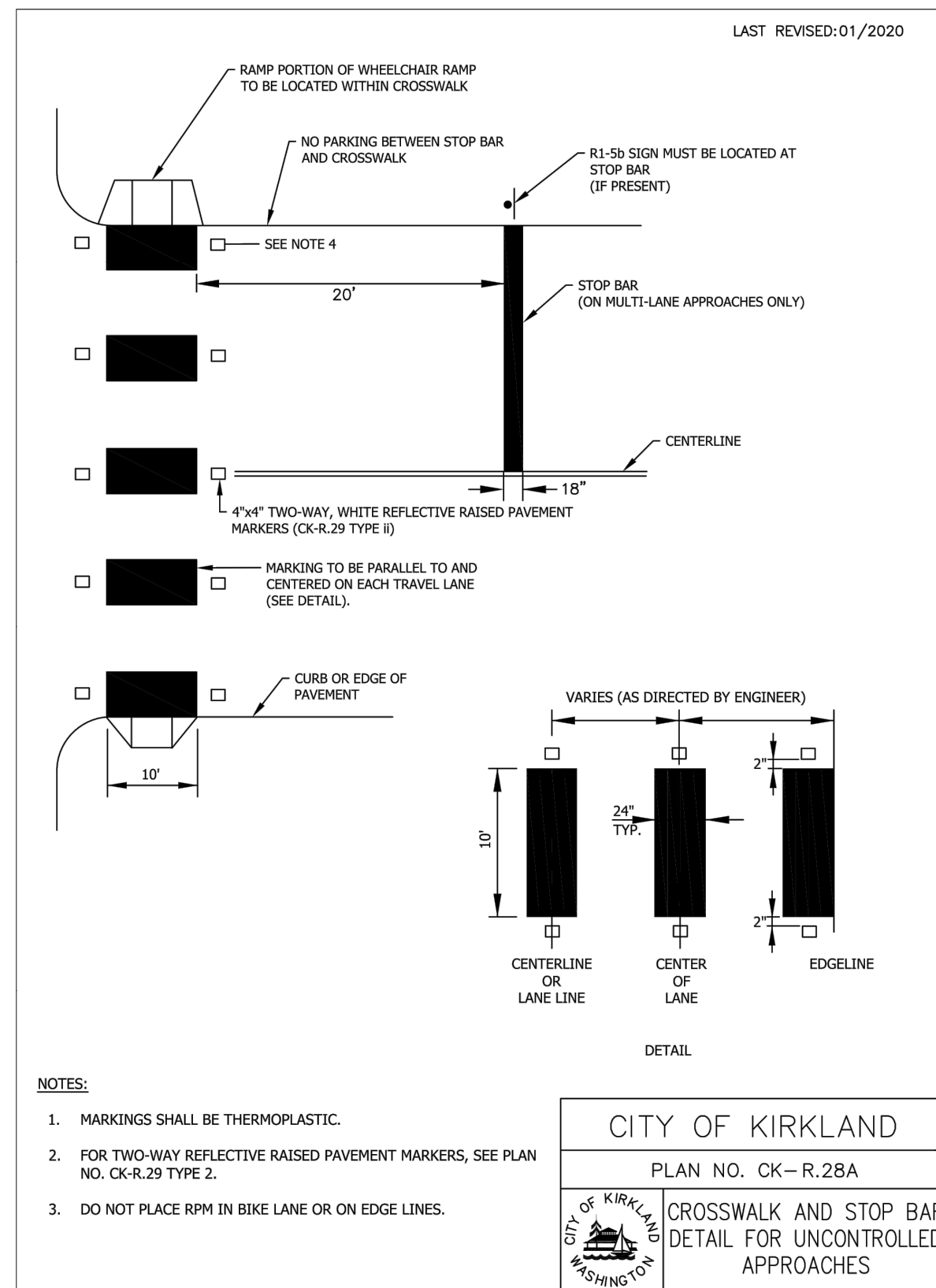
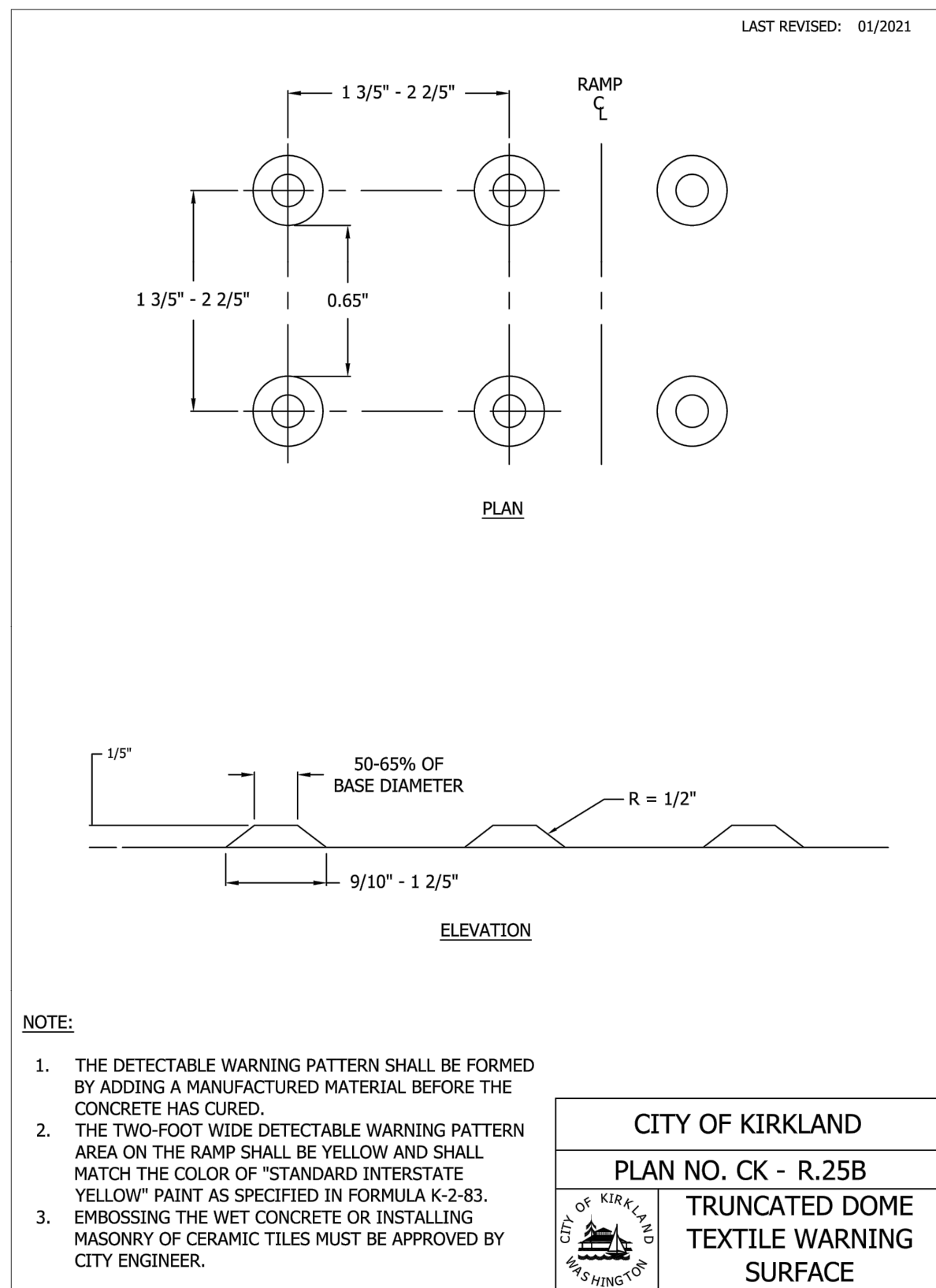
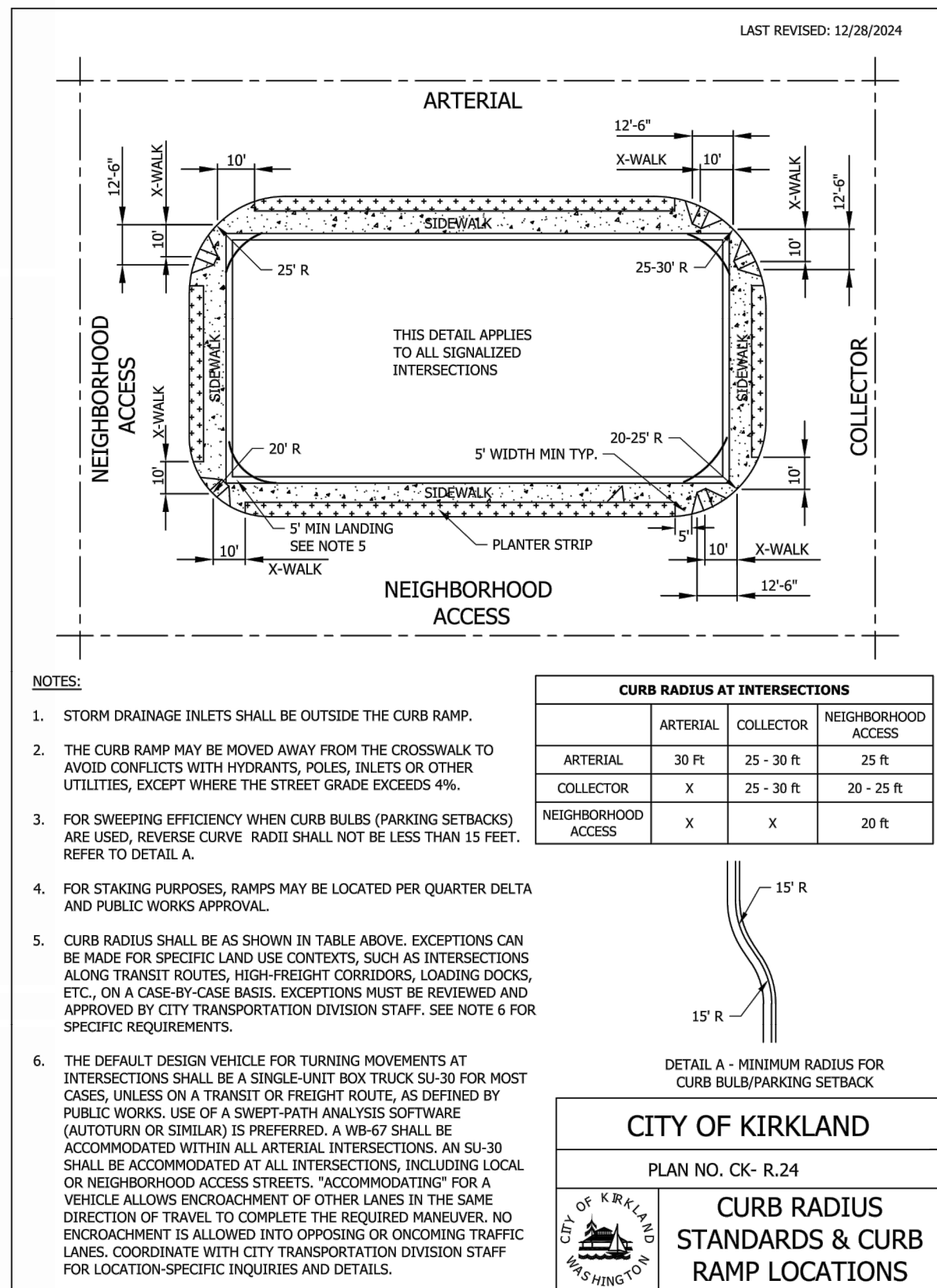
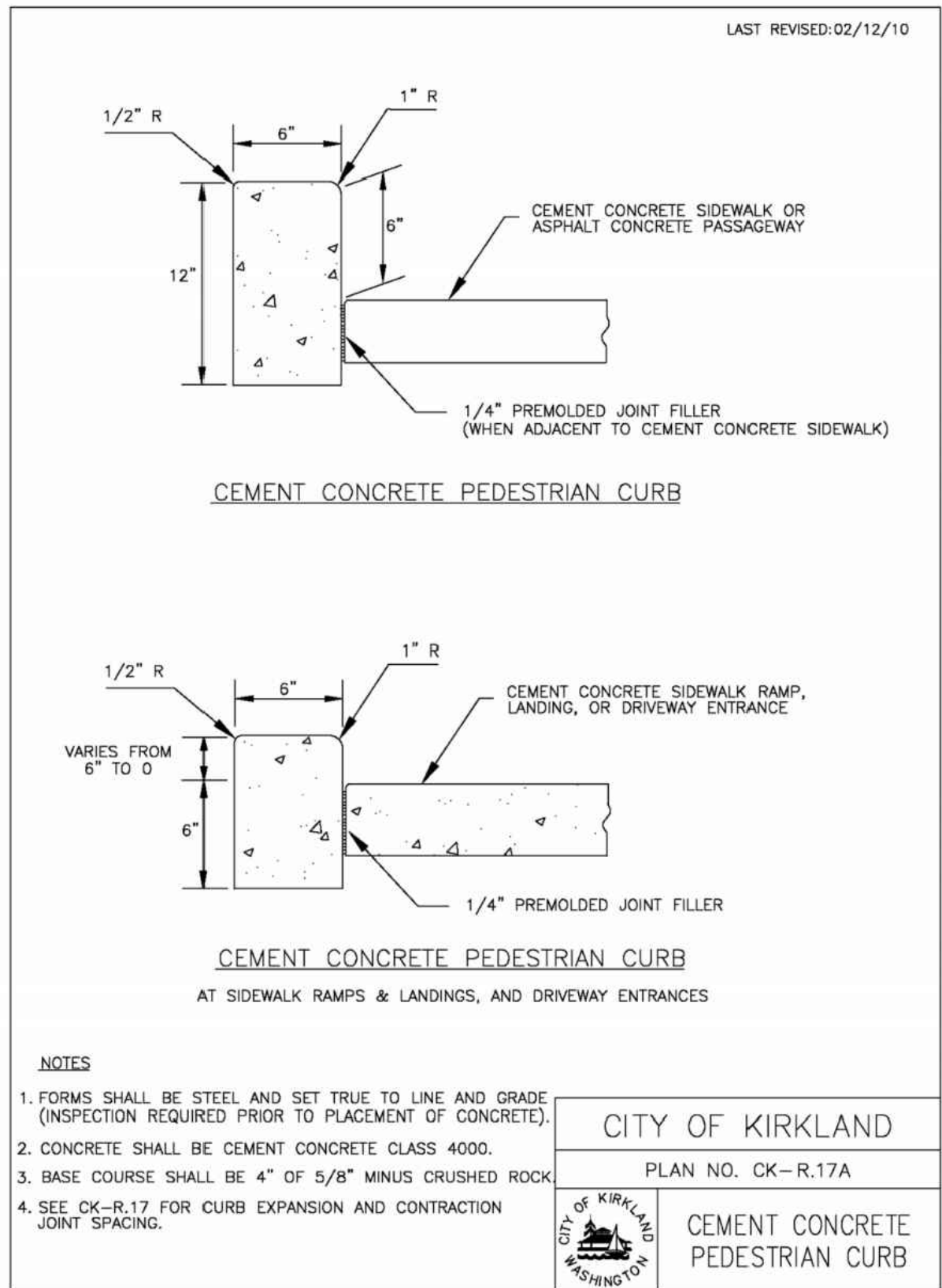
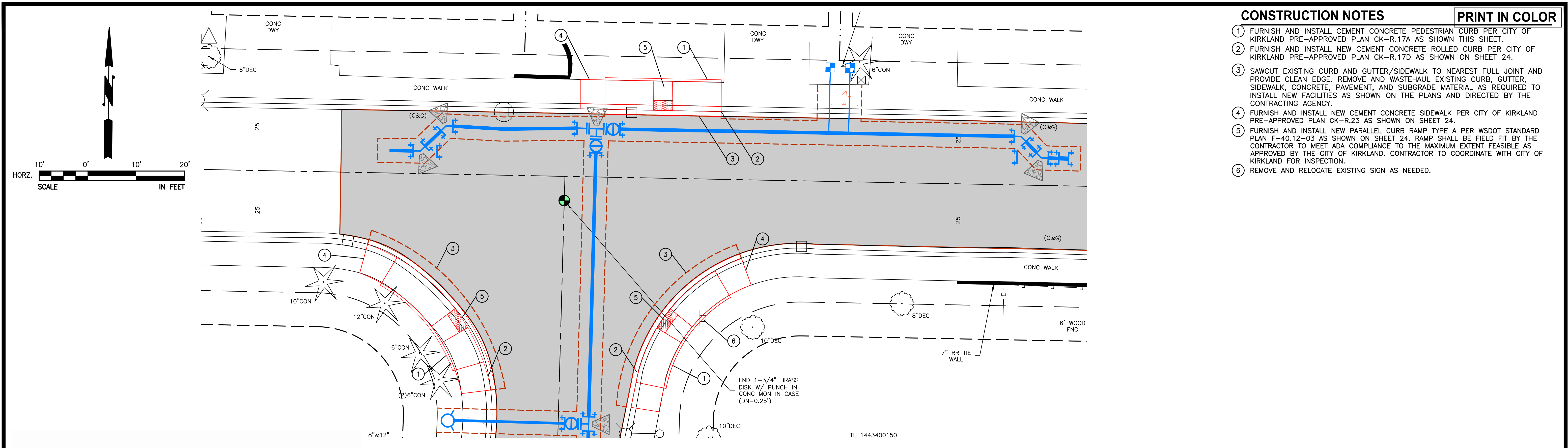
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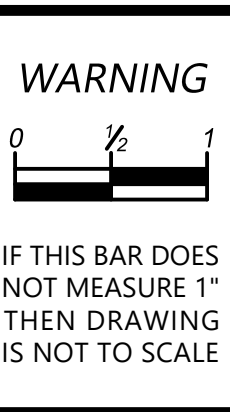
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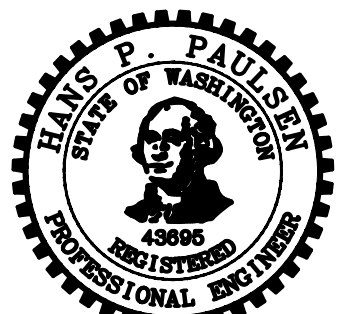
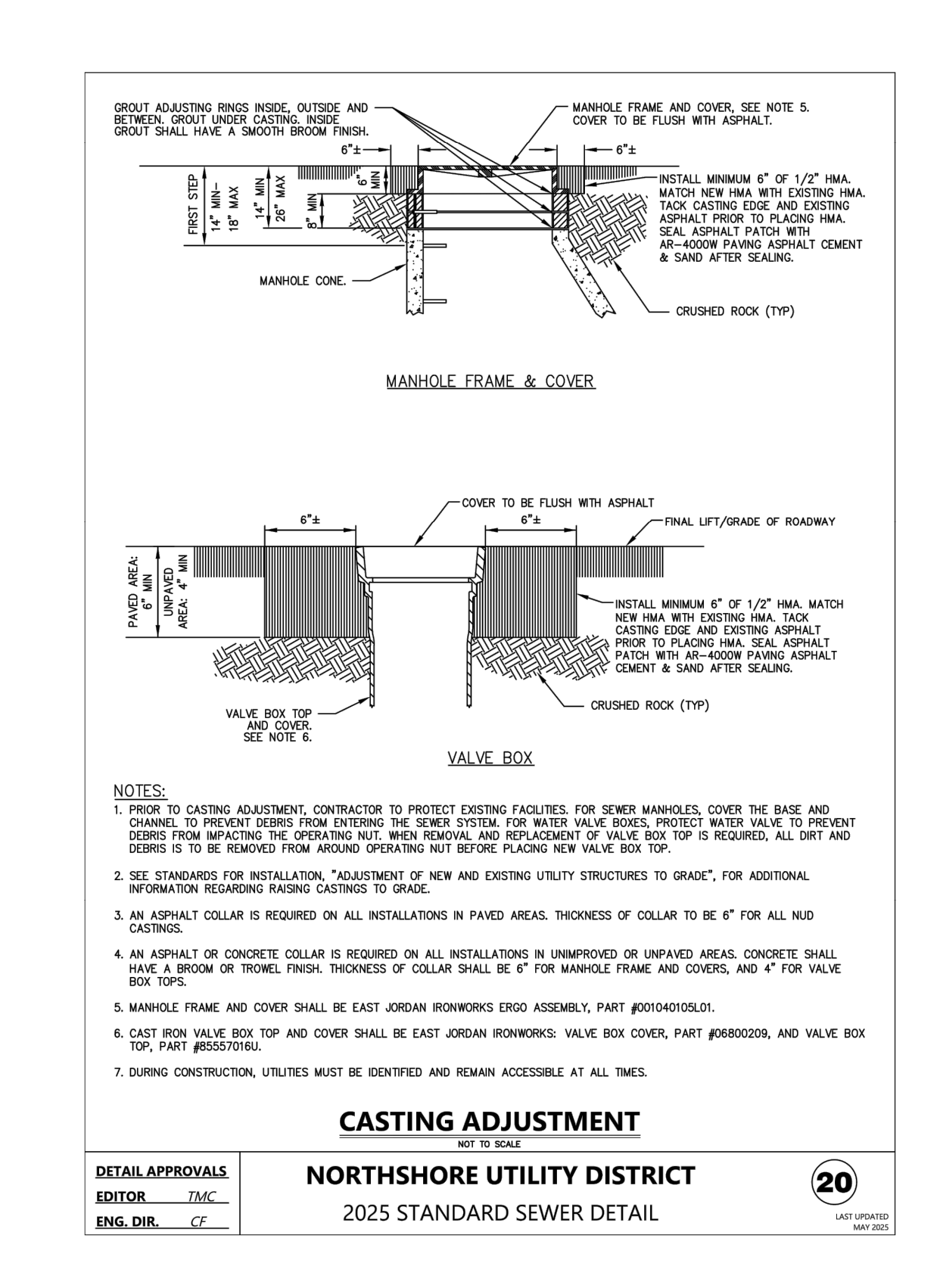
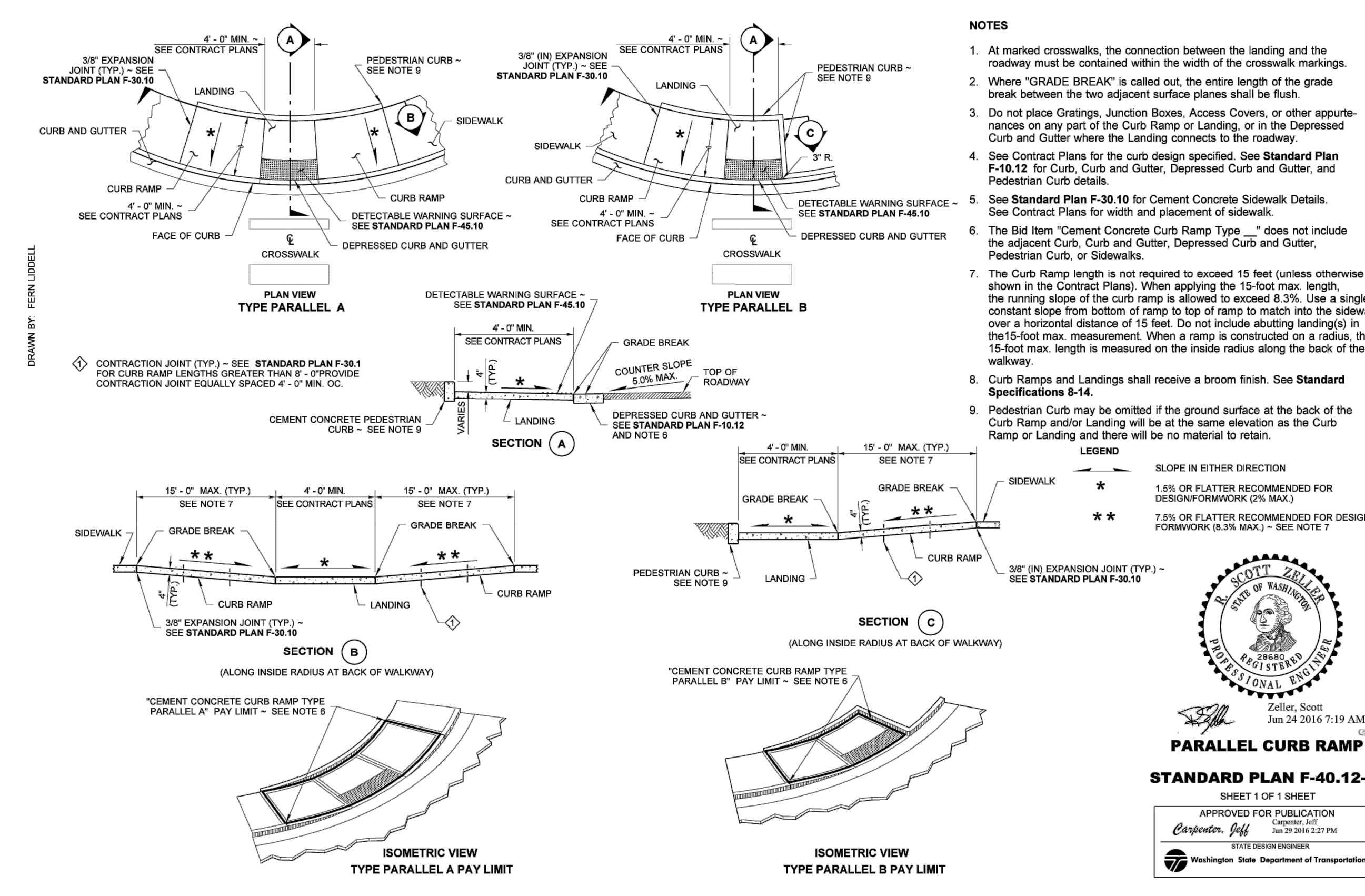
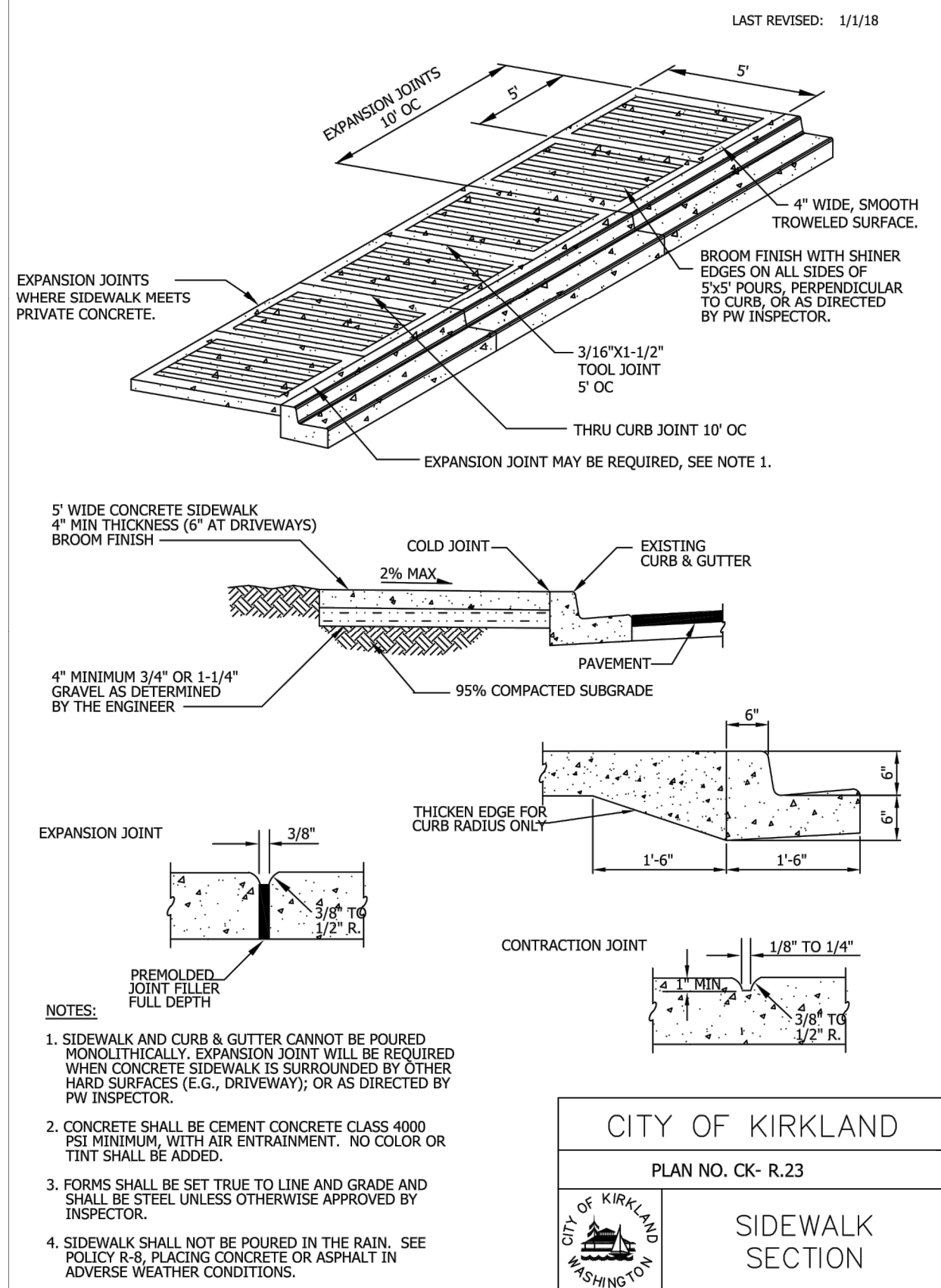
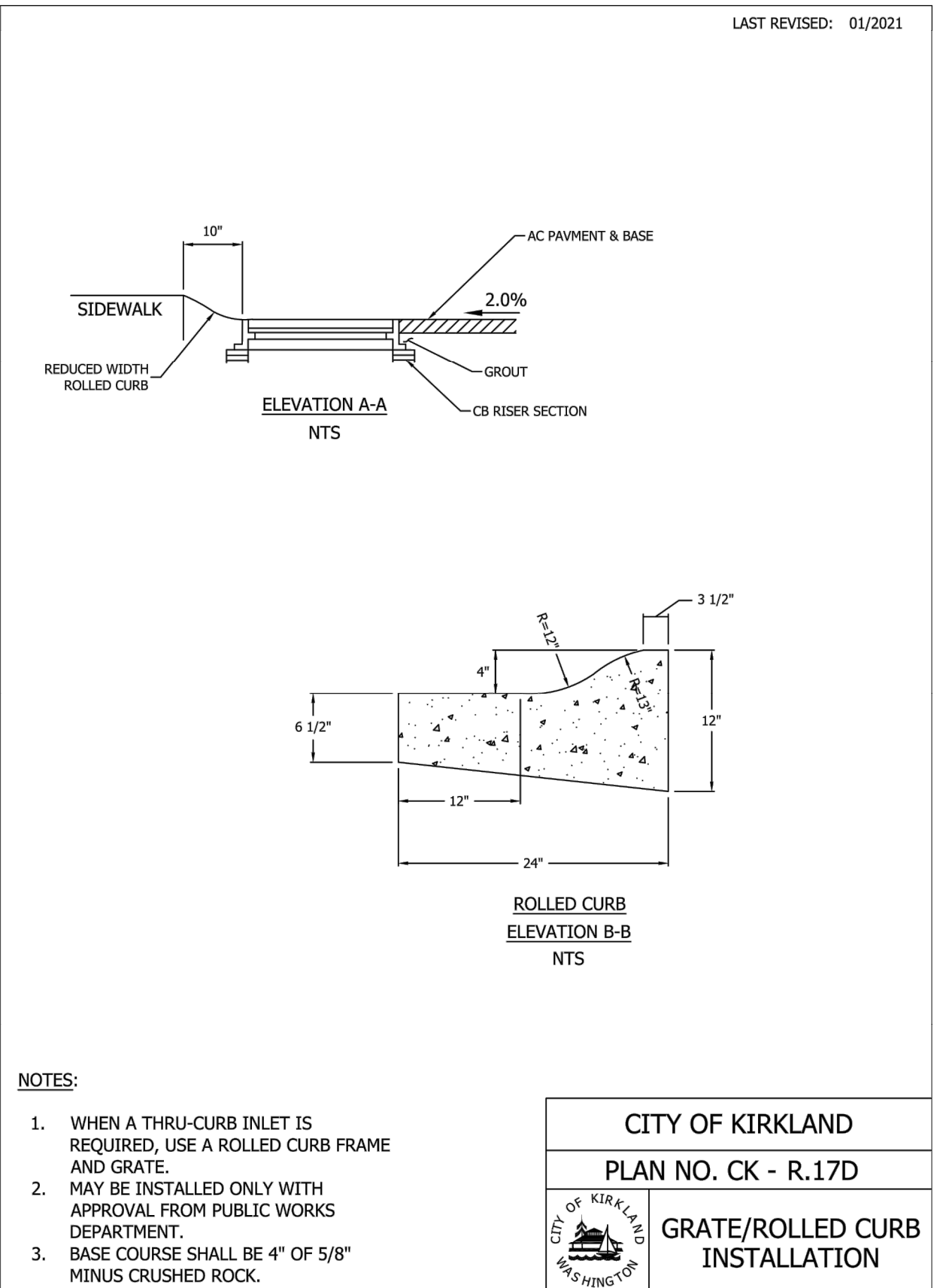
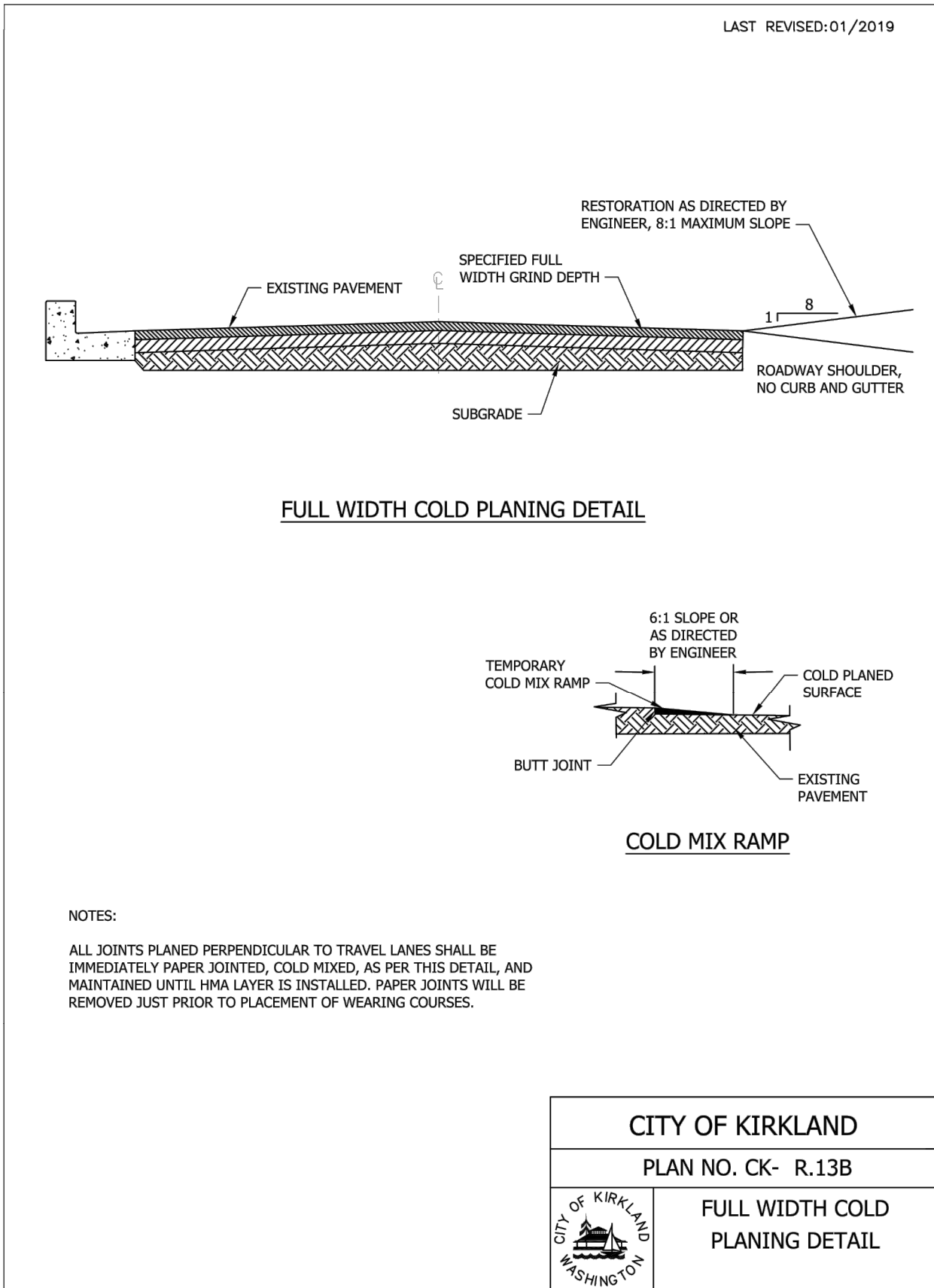
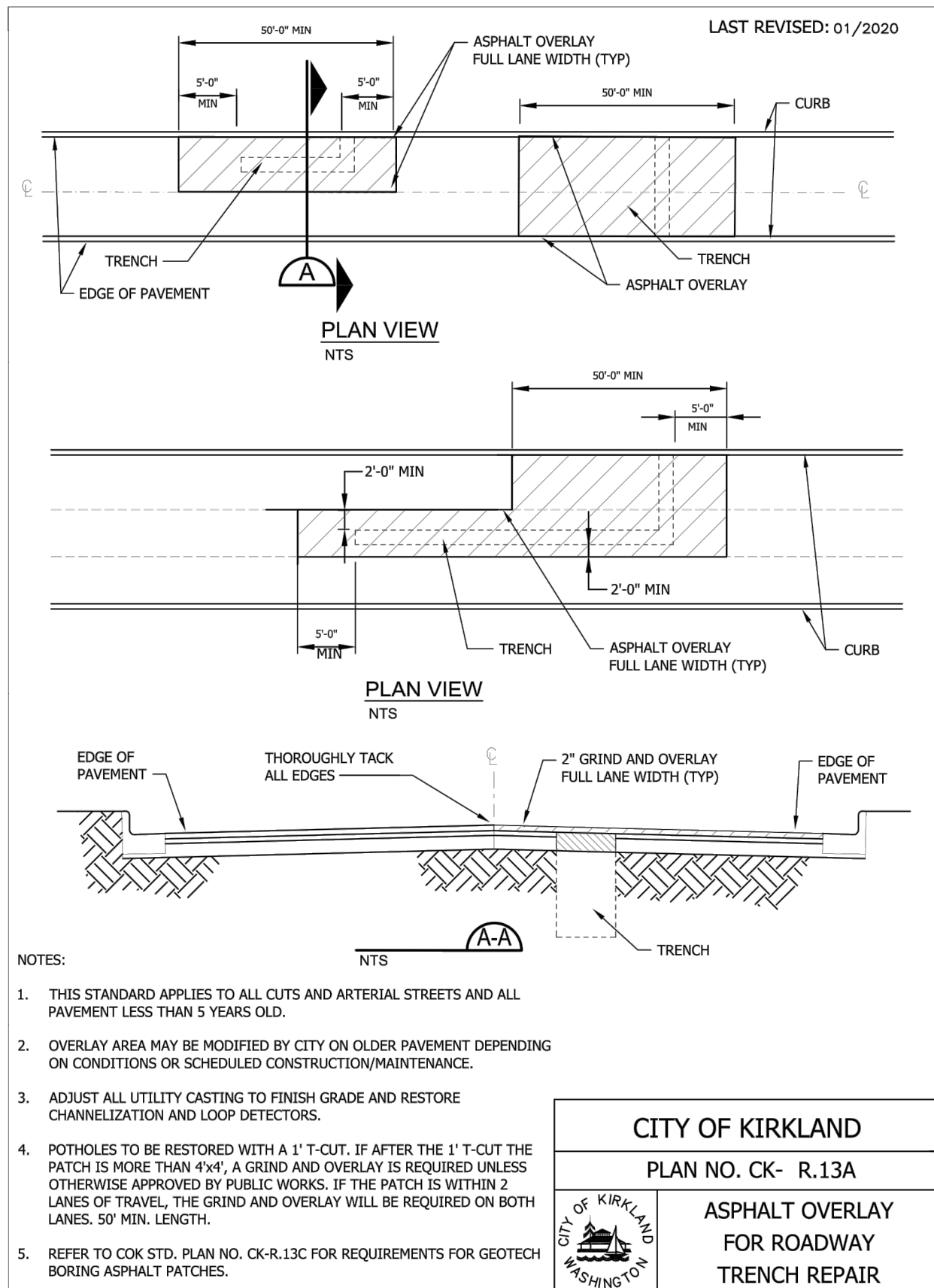
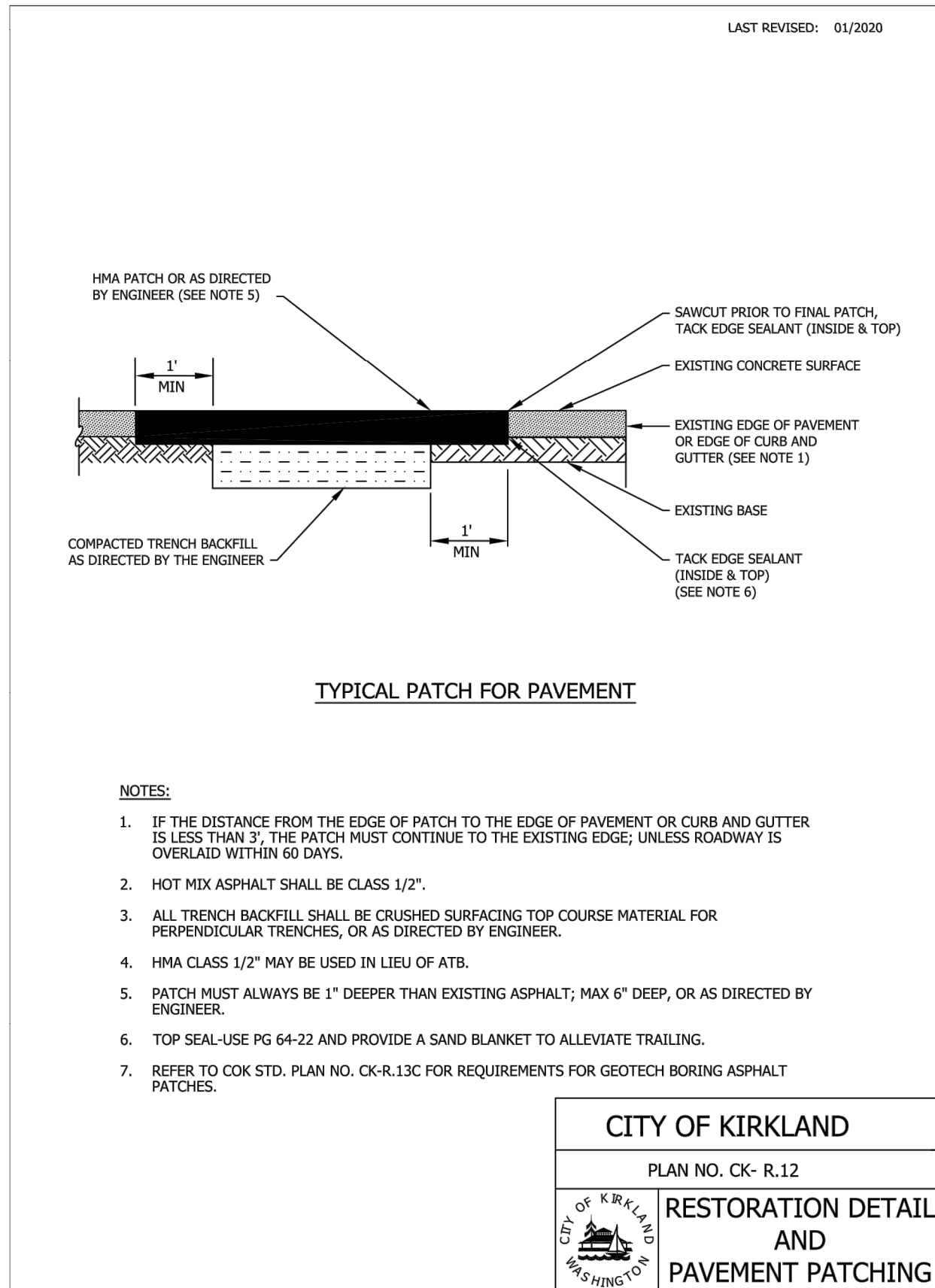
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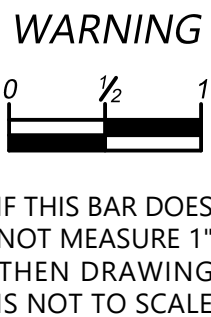
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