

City of Chehalis

Coal Creek Sewer Project

Chehalis, Washington

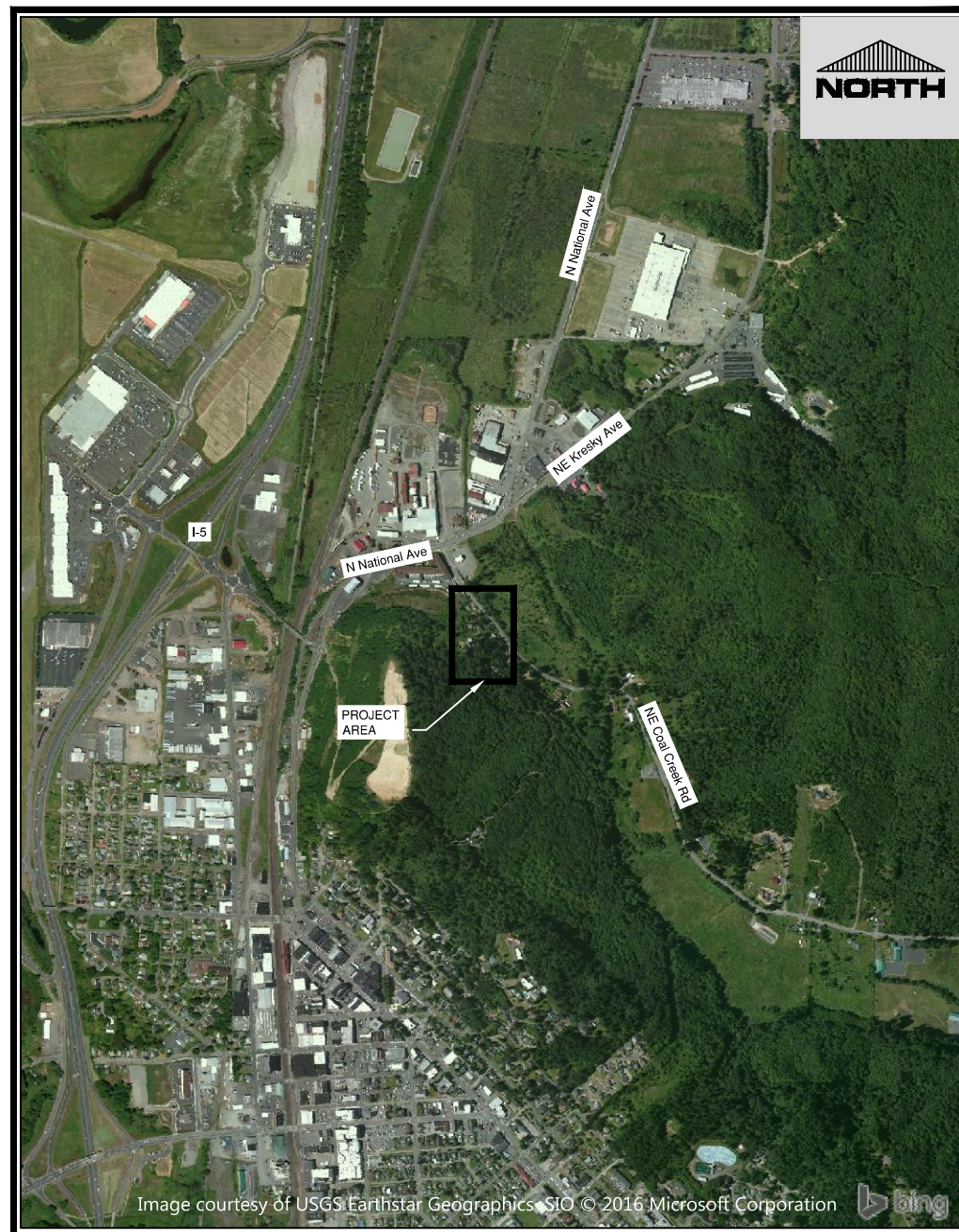
Project Directory

Owner

City of Chehalis
 350 N. Market Blvd.
 Chehalis, WA 98532
 Phone: (360) 345-1042
 Public Works Director: Rick Sahlin

Civil Engineers

Gibbs & Olson, Inc.
 Mike Marshall, P.E.
 1157 3rd Avenue, Suite 219
 Longview, Washington 98632
 Phone: (360) 425-0991



Vicinity Map
 Scale: 1" = 500'

City Of Chehalis

Mayor

Dennis Dawes

Mayor Pro-tem

Terry Harris

City Council

Tony Ketchum

Daryl Lund

Dr. Isaac Pope

Robert Spahr

Chad Taylor

City Manager

T. Jill Anderson

Public Works Director

Rick Sahlin

Project Manager / Wastewater Superintendent

Patrick Wiltzius

General
 Cover Sheet

City of Chehalis
 Coal Creek Sewer Project
 Chehalis, Washington

Horizontal Scale: 1" = 20'
 Vertical Scale: ---
 Datum: ---
 Survey Book: ---
 Project Phase: ---

Project Milestone: ---

Revision Date:
Mar. 9, 2017



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Project Manager: MEM
 Designed by: MEM
 CAD by: KAR
 Checked by: MEM
 Approved by: MEM

Project Number:
0155.1076

Drawing Number:
G1

Sheet Number:
1 of 7

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Abbreviations

AC	Asphalt Concrete	(N)	North
ASS'Y	Assembly	(NE)	Northeast
AVE.	Avenue	(NW)	Northwest
BFV	Butterfly Valve	N.T.S.	Not to Scale
BLKG	Blocking	O.D.	Outside Diameter
CB	Catch Basin	O/S	Offset
CI	Cast Iron	PERF.	Perforated
CL	Centerline	PVC	Polyvinyl Chloride
CMP	Corrugated Metal Pipe	PVMT	Pavement
CO	Cleanout	PRV	Pressure Reducing Valve
CONC	Concrete	RBC	Rebar and Cap
CPLG	Coupling	RT.	Right
CSBC	Crushed Surfacing Base Course	R/W	Right-of-Way
CSTC	Crushed Surfacing Top Course	S	Slope
DI	Ductile Iron	(S)	South
DWY.	Driveway	SD	Storm Drain
(E)	East	SDCB	Storm Drain Catch Basin
EC	Erosion Control	SDMH	Storm Drain Manhole
ELEV.	Elevation	SHT.	Sheet
EXIST.	Existing	SS	Sanitary Sewer
EOP	Edge of Pavement	SSCO	Sanitary Sewer Cleanout
FLG	Flange	SSMH	Sanitary Sewer Manhole
FND	Found	SST	Stainless Steel
FOC	Face of Curb	ST	Street
GV	Gate Valve	STA.	Station
INV.	Invert	STD.	Standard
I.E.	Invert Elevation	(SE)	Southeast
INT.	Intersection	(SW)	Southwest
I.P.	Iron Pipe	TELE.	Telephone
LT.	Left	TESC	Temporary Erosion and Sediment Control
LF	Linear Feet	TRANS.	Transition
MAX.	Maximum	TYP.	Typical
MD	Measure Down	U.N.O.	Unless Noted Otherwise
MIN.	Minimum	(W)	West
MH	Manhole		
MJ	Mechanical Joint		

Legend

Existing Linetypes	
	Existing Building
	Existing Cable TV - Buried
	Existing Centerline Road
	Existing Concrete
	Existing Creek/Ditch
	Existing Curb
	Existing Fence
	Existing Gas
	Existing Guardrail
	Existing Gravel
	Existing Gutter Line
	Existing Pavement Edge
	Existing Power - Aerial
	Existing Power - Buried
	Existing Retaining Wall
	Existing Right-Of-Way
	Existing Sanitary Sewer
	Existing Sidewalk
	Existing Storm Drain
	Existing Telephone - Buried
	Existing Toe of Slope
	Existing Top of Slope
	Existing Brush Line
	Existing Water

Existing Symbols	
	Existing Yard Light
	Existing Hydrant
	Existing Water Meter
	Existing Gate Valve
	Existing Water Vault
	Existing Mail Box
	Existing Sign
	Existing Conifer Tree
	Existing Deciduous Tree
	Existing Shrub
	Existing Power Pole
	Existing Power Pole Anchor
	Existing Power Transformer
	Existing Power Vault
	Existing Sewer Cleanout
	Existing Sewer Manhole
	Existing Storm Culvert
	Existing SDCB
	Existing SDMH
	Existing Telephone Pole
	Existing Telephone Pole Anchor
	Existing Telephone Riser
	Existing Capped Pipe

Sheet List Table		
Sheet No.	Drawing No.	Sheet Title
General		
1	G1	Cover Sheet
2	G2	General Notes, Legend, & Abbreviations
Sanitary Sewer		
3	C1	Coal Creek Sta 10+00 to 13+50
4	C2	North End Sta 20+00 to 23+00
5	C3	Taylor Way Sta 30+00 to 33+50
Details		
6	D1	Standard Details
7	D2	Special Details

Proposed Linetypes	
	Proposed Low Pressure Forcemain Alignment or Service

Sanitary Sewer Main Installation

- ALL WORKMANSHIP AND MATERIALS WILL BE IN ACCORDANCE WITH CITY OF CHEHALIS STANDARDS AND THE MOST RECENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
- CITY OF CHEHALIS DATUM WILL BE USED FOR ALL VERTICAL CONTROL. A LIST OF BENCHMARKS IS AVAILABLE AT THE PUBLIC WORKS DEPARTMENT.
- ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF CHEHALIS WILL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- IF CONSTRUCTION IS TO TAKE PLACE IN THE COUNTY RIGHT-OF-WAY, THE CONTRACTOR WILL NOTIFY THE COUNTY AND OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.
- A PRECONSTRUCTION MEETING WILL BE HELD WITH THE PUBLIC WORKS DEPARTMENT AND THE ENGINEERING DIVISION PRIOR TO THE START OF CONSTRUCTION.
- THE ENGINEERING DIVISION WILL BE NOTIFIED A MINIMUM OF TWO BUSINESS DAYS IN ADVANCE OF A TAP CONNECTION TO AN EXISTING MAIN. A CITY INSPECTOR WILL BE PRESENT AT THE TIME OF THE TAP.
- THE CONTRACTOR WILL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR WILL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UTILITIES UNDERGROUND LOCATION CENTER AT 811 A MINIMUM OF TWO BUSINESS DAYS PRIOR TO ANY EXCAVATION.
- ALL SEWER MAINS WILL BE FIELD STAKED FOR GRADES AND ALIGNMENT BY A LICENSED ENGINEERING OR SURVEYING FIRM QUALIFIED TO PERFORM SUCH WORK. STAKING WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL PIPE AND SERVICES WILL BE INSTALLED WITH CONTINUOUS TRACER TAPE PLACED 12 TO 18 INCHES UNDER THE PROPOSED FINISHED SUBGRADE. THE MARKER WILL BE OF PLASTIC, NONBIODEGRADABLE, METAL CORE OR BACKING MARKED "SEWER" THAT CAN BE DETECTED BY A STANDARD METAL DETECTOR. IF VISIBILITY CANNOT BE MAINTAINED BETWEEN STRUCTURES ALONG THE STRAIGHT ALIGNMENT OF A SEWER, TONING WIRE WILL BE INSTALLED ABOVE THE SEWER LINE AT A DEPTH NO GREATER THAN 48 INCHES. TAPE WILL BE TERRA TAPE "D" OR AN APPROVED EQUAL. IN ADDITION, STEP MAINS, FORCE MAINS, AND CURVILINEAR SEWERS WILL BE INSTALLED WITH TONING WIRE TAPED TO THE TOP OF THE PIPE TO PREVENT MOVEMENT DURING BACKFILL.
- TONING WIRE IS REQUIRED, IT WILL BE UL LISTED, TYPE UF, 14-GAUGE COPPER. THE WIRE WILL BE LAID LOOSELY ENOUGH TO PREVENT STRETCHING AND DAMAGE. THE WIRE WILL BE WRAPPED TO A MANHOLE OR CLEANOUT RINGS ON GRAVITY SEWER OR VALVE BODY ON STEP MAINS.
- BEDDING OF THE SEWER MAIN AND COMPACTION OF THE BACKFILL MATERIAL WILL BE REQUIRED IN ACCORDANCE WITH THE ABOVE SPECIFICATION (SEE GENERAL NOTE 1).
- ALL MANHOLES AND CLEANOUTS OUTSIDE THE PAVED AREA WILL BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWINGS 5-3 AND 5-5.
- WHEN TEMPORARY STREET PATCHING IS ALLOWED BY THE CITY, COLD MIX ASPHALT WILL BE PLACED TO A MAXIMUM DEPTH OF ONE INCH. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE AS REQUIRED BY THE CITY.
- EROSION CONTROL MEASURES CONFORMING TO THE MOST RECENT VERSION OF THE CITY OF CHEHALIS STORM WATER MANAGEMENT PLAN AND ARTICLE IV OF THIS CHAPTER WILL BE TAKEN BY THE CONTRACTOR DURING CONSTRUCTION TO PREVENT INFILTRATION OF EXISTING AND PROPOSED STORM DRAINAGE FACILITIES AND ROADWAYS.
- PROVIDE TRAFFIC CONTROL PLAN(S) IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS REQUIRED.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED CONSTRUCTION PLANS ON SITE AT ALL TIMES. APPROVED PLANS ARE TYPICALLY SIGNIFIED BY THE SIGNATURE OF THE DIRECTOR OF PUBLIC WORKS OR DESIGNATED CONSULTANT.
- ANY CHANGES TO THE DESIGN WILL FIRST BE REVIEWED AND APPROVED BY THE DEVELOPER'S PROJECT ENGINEER AND THE DIRECTOR OF PUBLIC WORKS OR DESIGNATED CONSULTANT PRIOR TO IMPLEMENTATION.
- PRIOR TO BACKFILL, ALL MAINS AND APPURTENANCES WILL BE INSPECTED AND APPROVED BY A CITY INSPECTOR. APPROVAL DOES NOT CONSTITUTE FINAL ACCEPTANCE OF THE SEWER LINE. THE CONTRACTOR WILL RETAIN RESPONSIBILITY TO REPAIR ALL DEFICIENCIES AND FAILURES REVEALED DURING ALL REQUIRED TESTING FOR ACCEPTANCE AND THROUGHOUT THE DURATION OF THE WARRANTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEERING DIVISION IN ADVANCE OF ALL REQUIRED INSPECTIONS. ANY MAIN OR APPURTENANCE BACKFILLED PRIOR TO INSPECTION WILL BE RE-EXCAVATED FOR INSPECTION AT NO COST TO THE CITY.

General	General Notes, Legend, & Abbreviations
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	Chehalis, Washington

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 Vertical Scale: ---
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 Project Manager: MEM

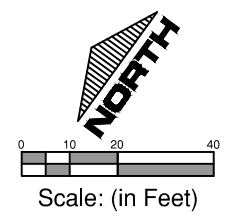
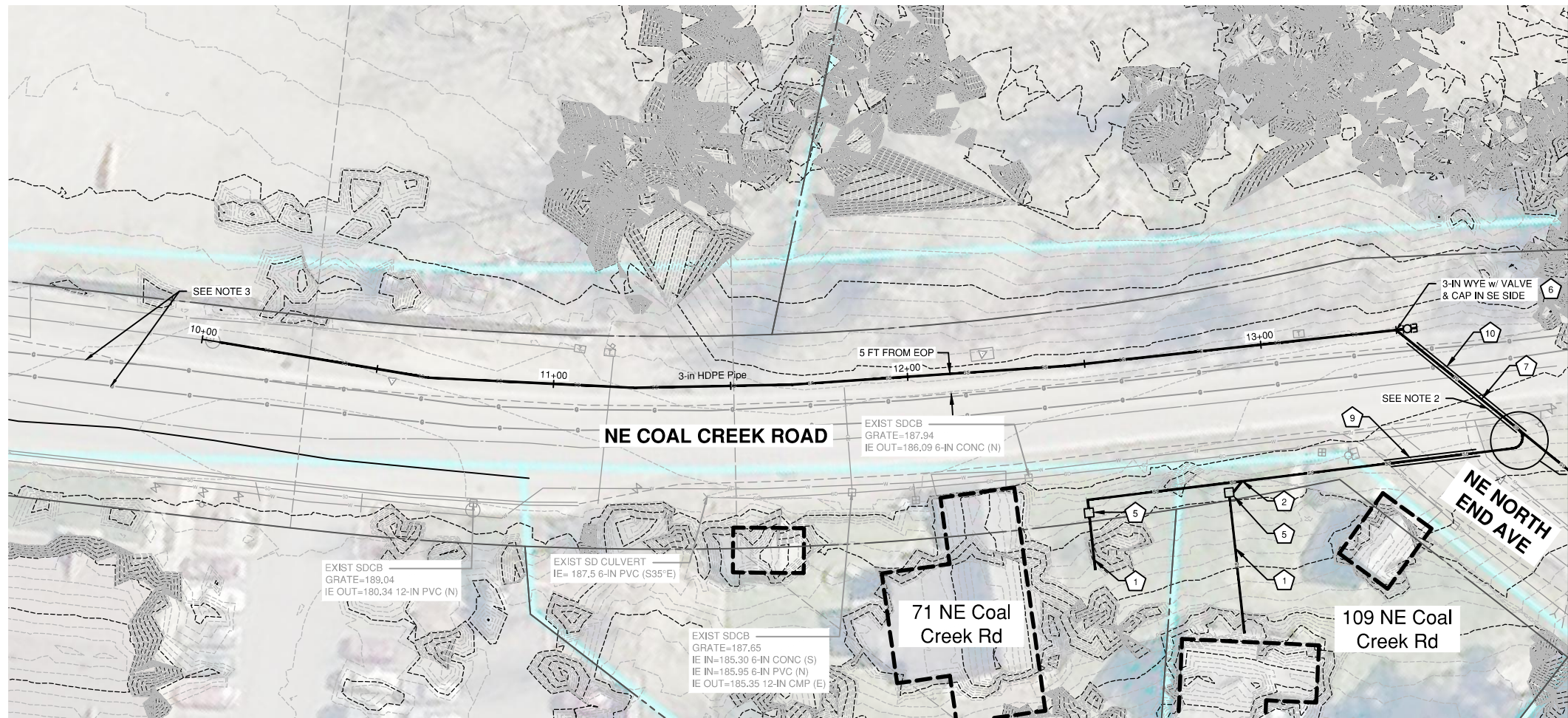
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G2
 Sheet Number:
2 of 7

**Know what's below.
Call 811 before you dig.**

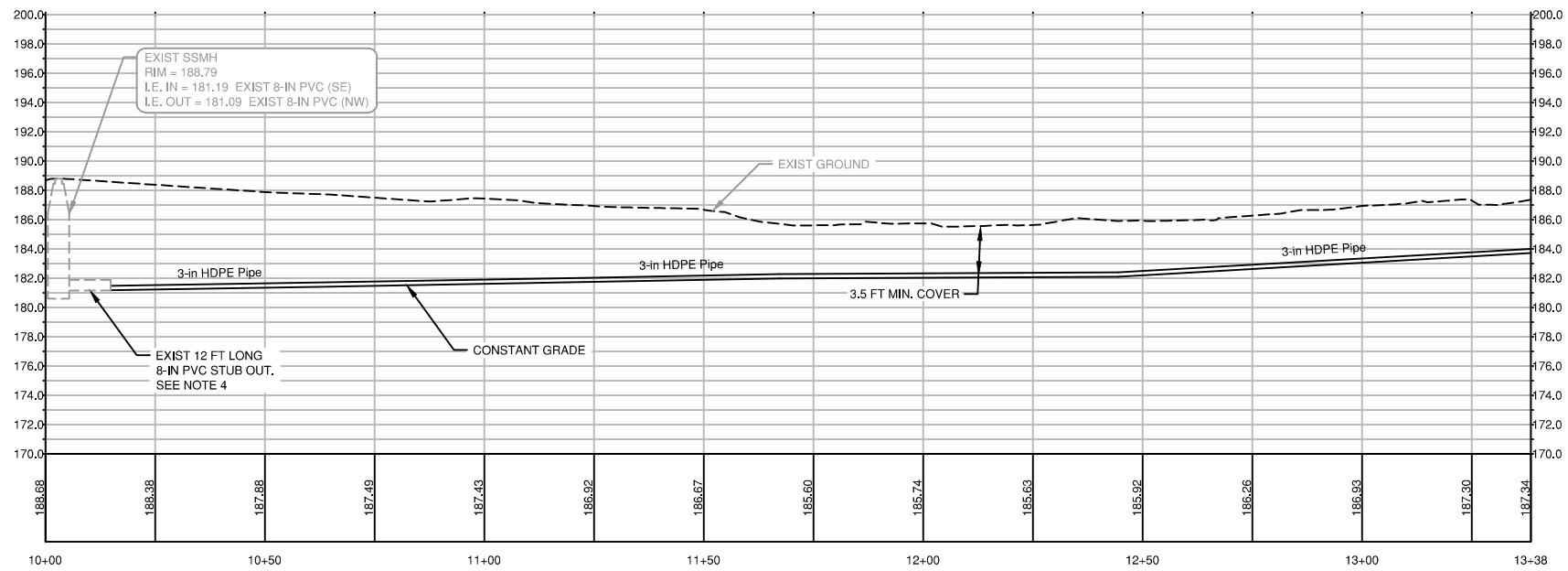
CAUTION: LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION.

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- SEWER**
- 1 INSTALL 1/2-IN SERVICE LATERAL & PUMP
 - 2 INSTALL 1/2-IN X 1/2-IN WYE
 - 3 INSTALL 1/2-IN X 2-IN WYE
 - 4 INSTALL 1/2-IN X 3-IN WYE
 - 5 INSTALL VALVE BOX
 - 6 INSTALL 3-IN VALVE PER DETAIL IN SPECIFICATION APPENDIX A
 - 7 WATER CROSSING PER DETAIL IN SPECIFICATION APPENDIX A
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- NOTES:**
- PROPERTY LINES ARE SHOWN AS APPROXIMATE AND ARE DISPLAYED FOR CONVENIENCE ONLY.
 - CASING TO BE 5 FT PAST WATER LINE CROSSING.
 - CAUTION: HIGH PROFILE, HIGH PRESSURE GAS MAIN. PRIOR TO ANY EXCAVATION IN THE AREA, CONTACT RICH EBERLY AT PSE (253) 405-7338 TO SCHEDULE EXCAVATION.
 - TERMINATE 3-IN HDPE JUST PAST LADDER IN EXIST MH CHANNEL. IE OF 3-IN HDPE TO BE SET ABOVE EXIST. CHANNEL WITH MITERED END. GROUT 2 FT OF ANNULAR SPACE IN 8 IN PIPE UPSTREAM. USE 3-IN X 8-IN BOOT AT POINT WHERE 3-IN SLIPS INTO 8-IN PIPE.
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Coal Creek Sta 10+00 to 13+50

City of Chehalis
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Chehalis, Washington

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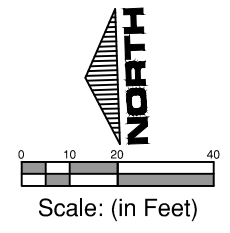
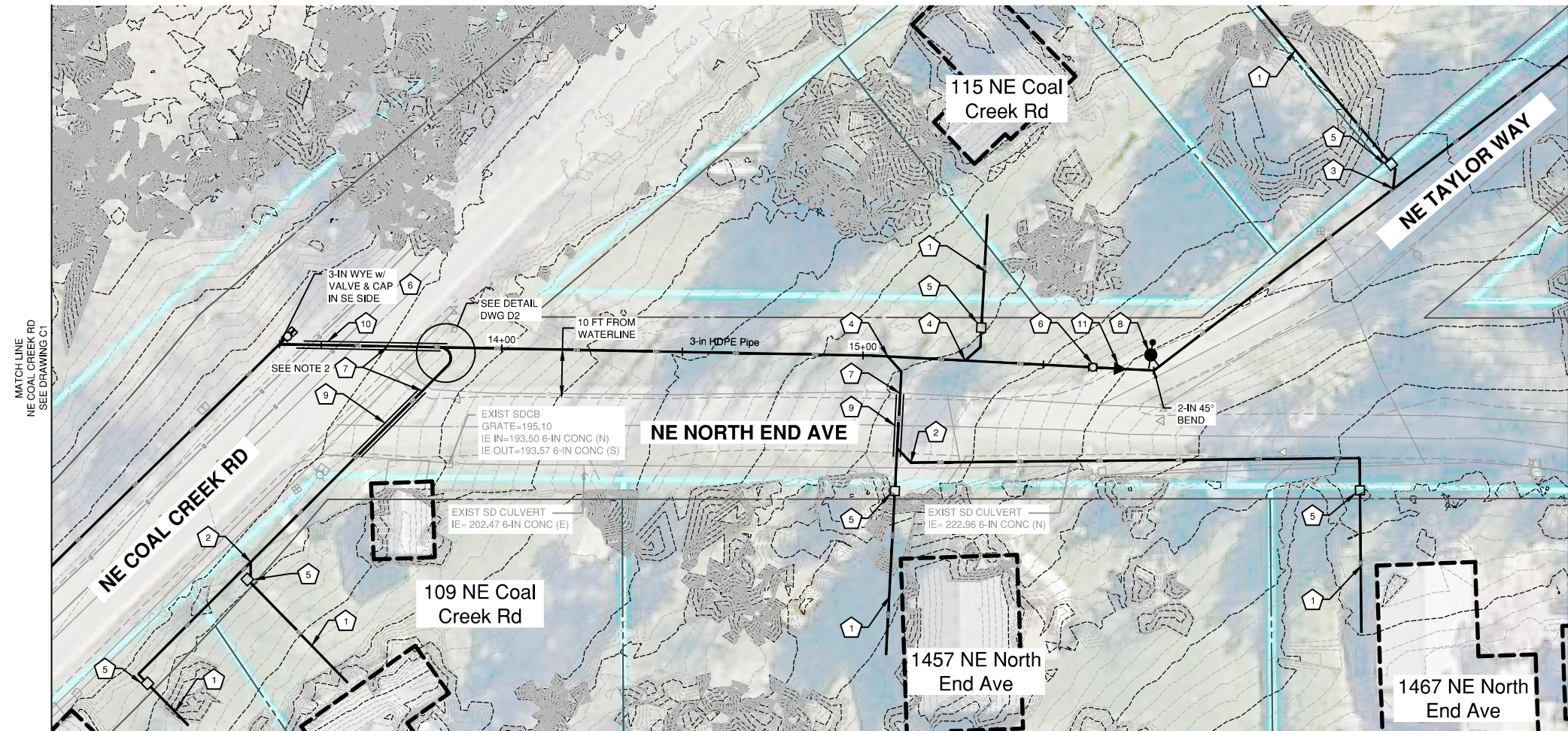
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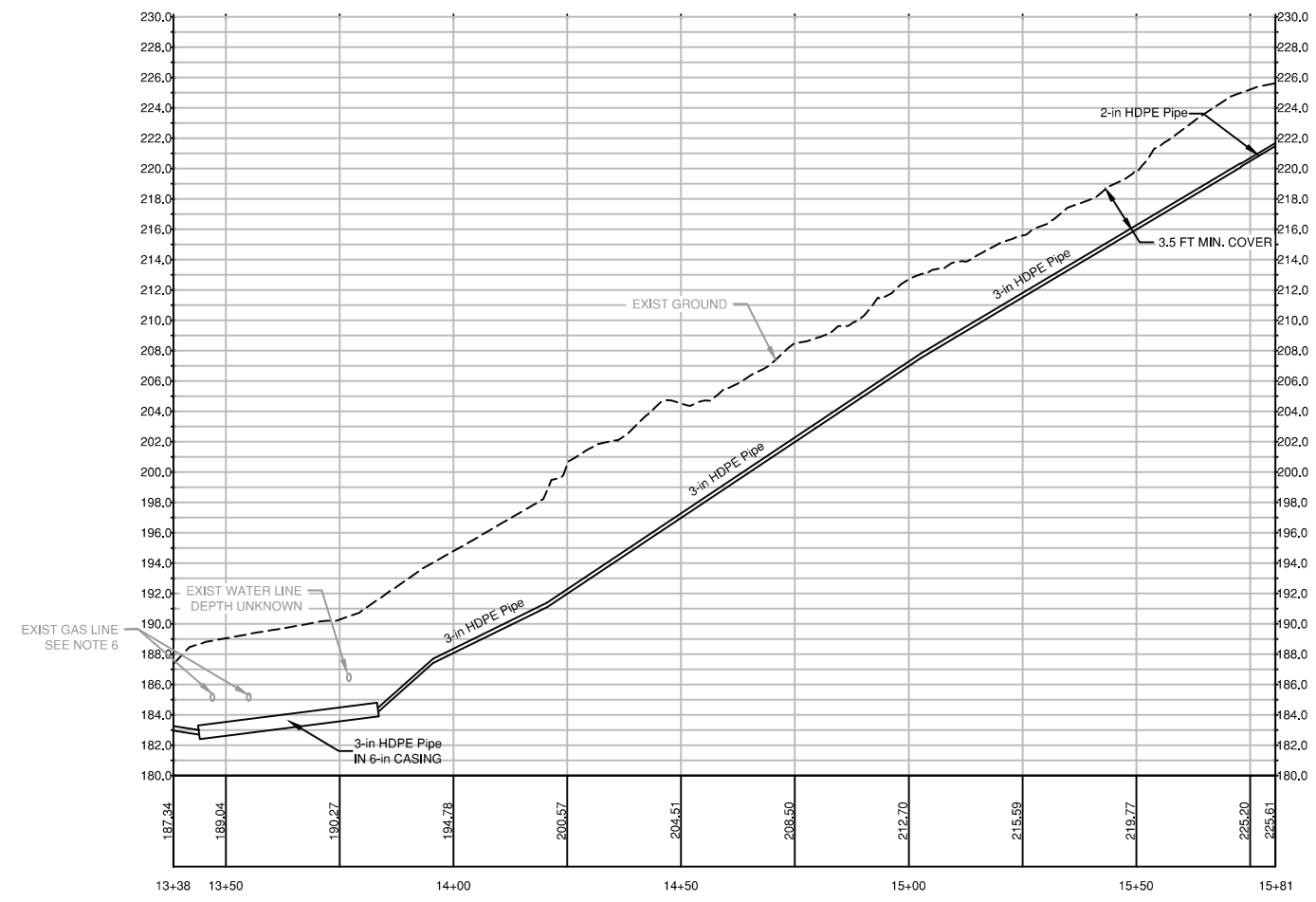
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Sanitary Sewer
 North End Sta 20+00 to 23+00

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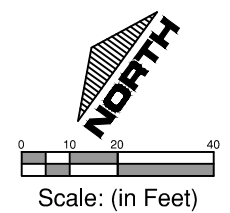
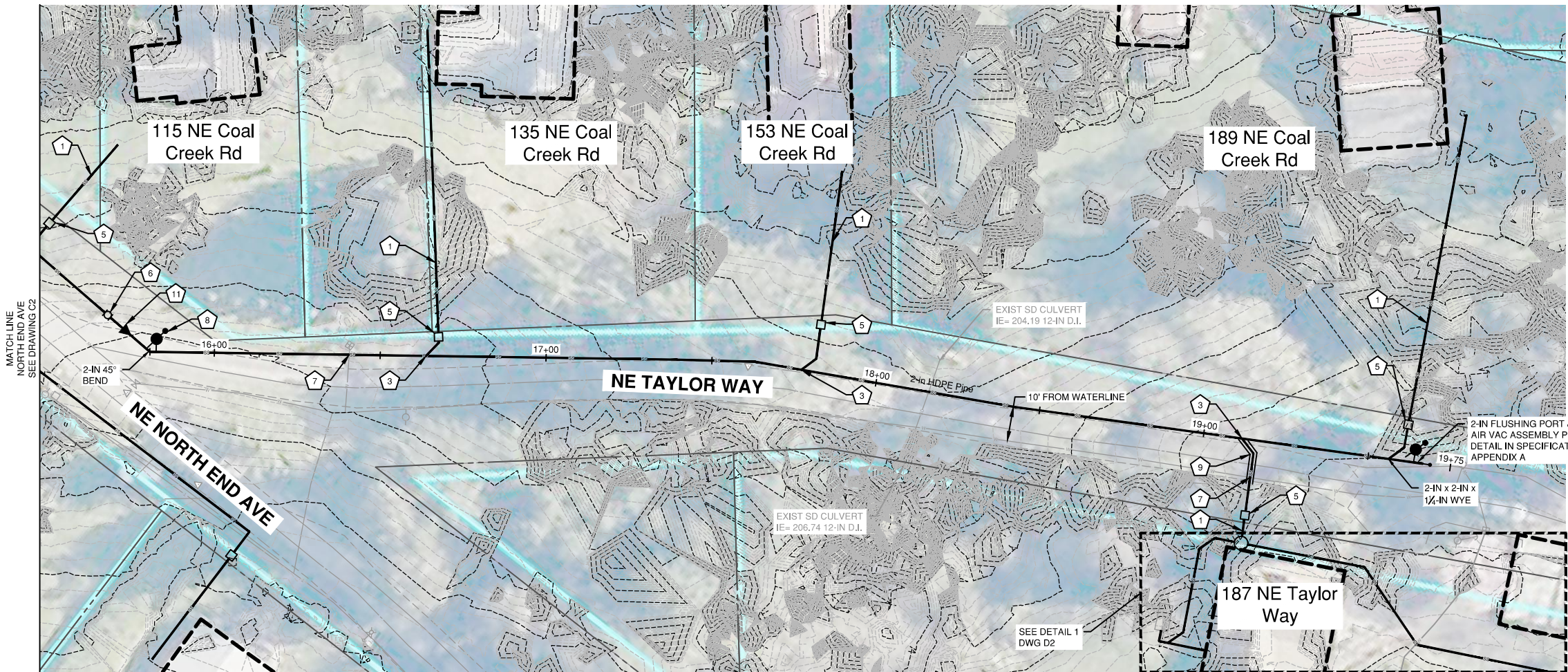
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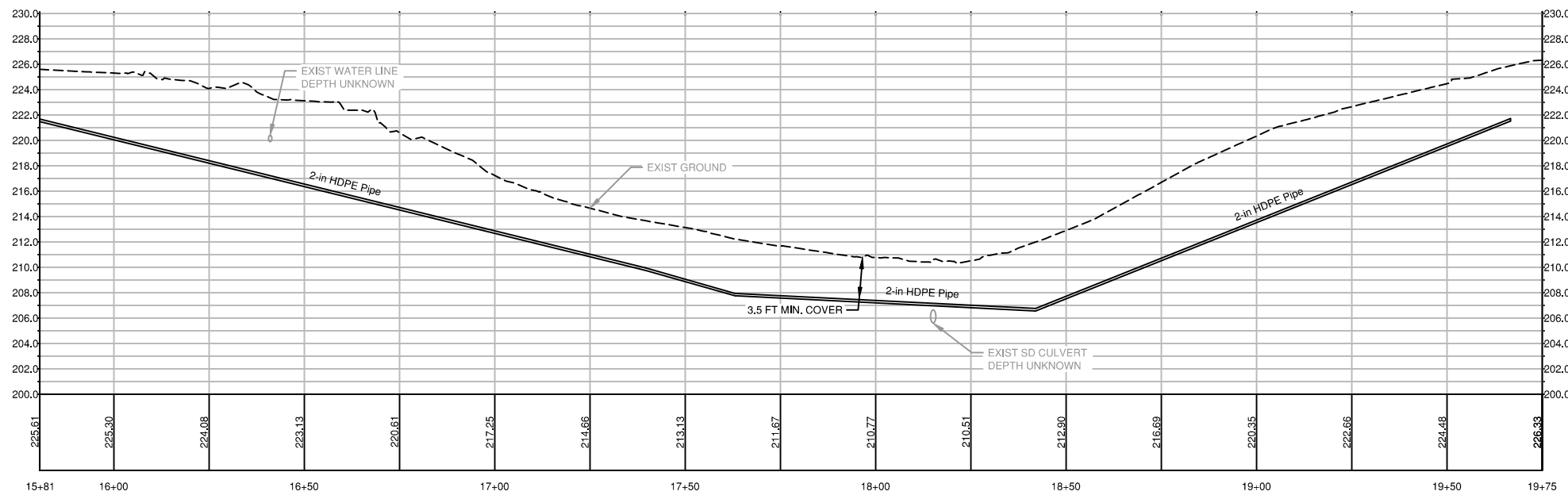
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Taylor Way Sta 30+00 to 33+50

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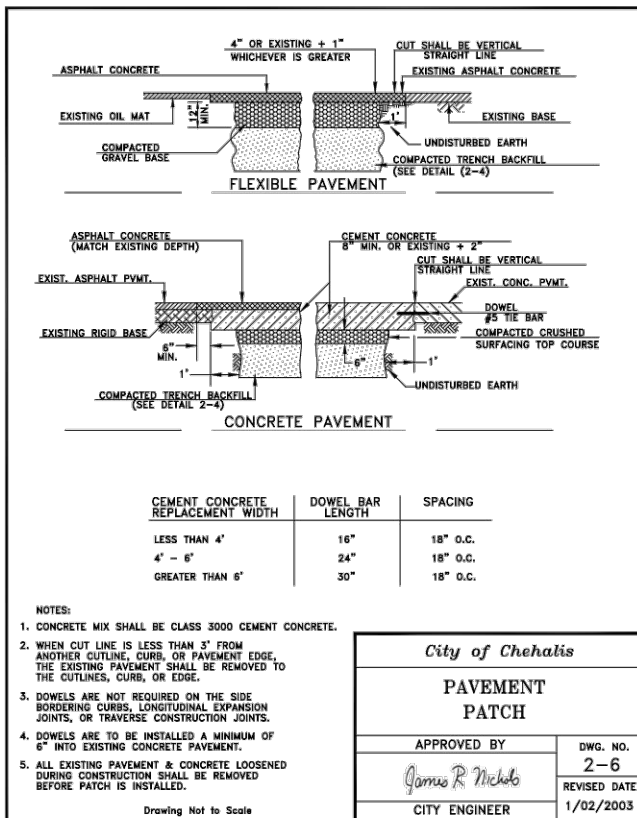
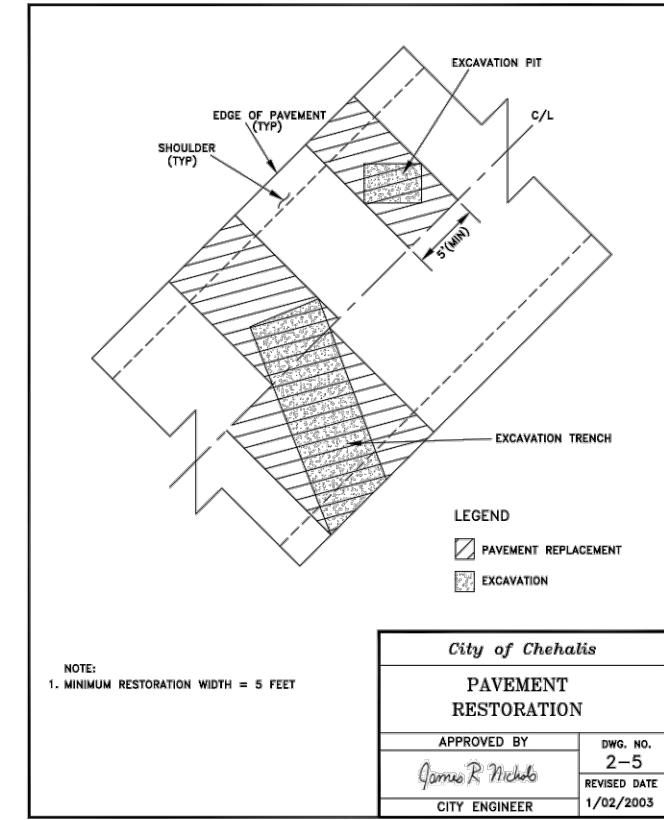
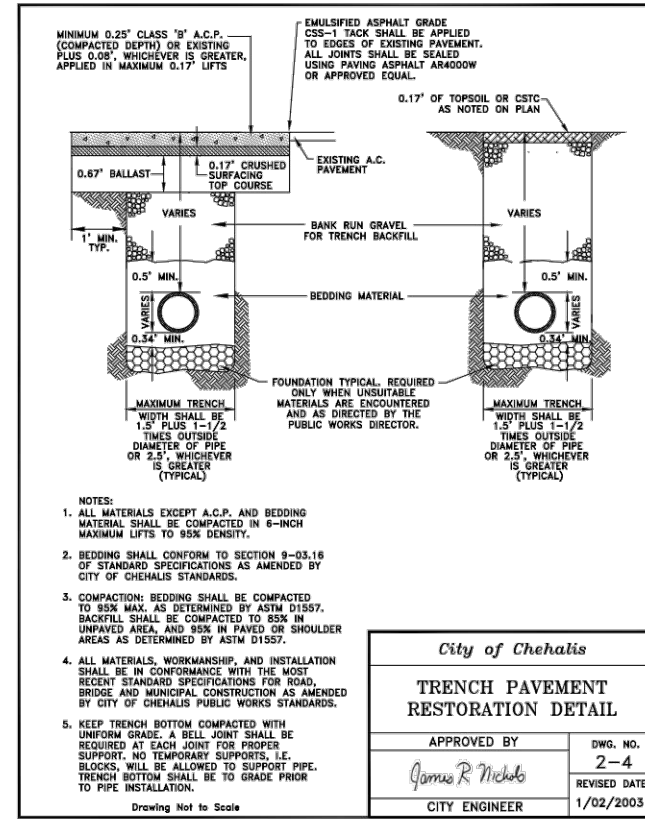
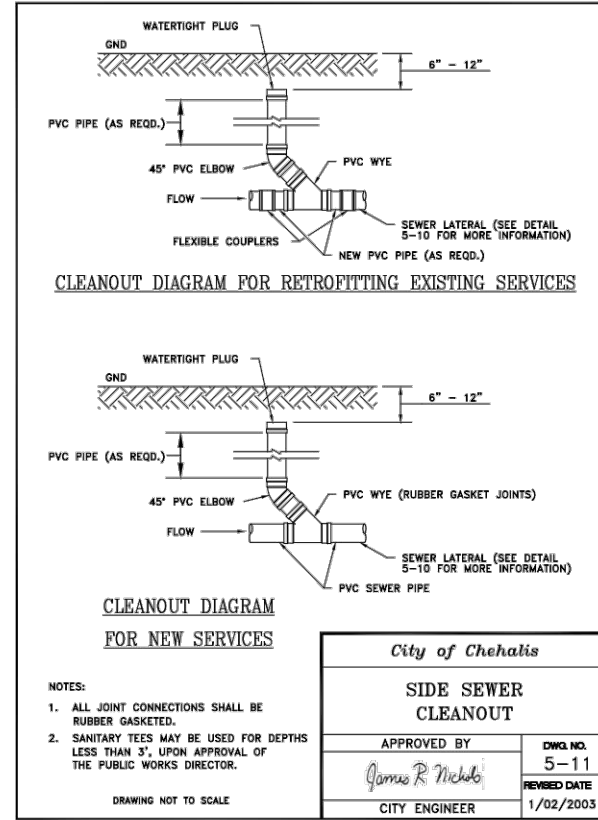
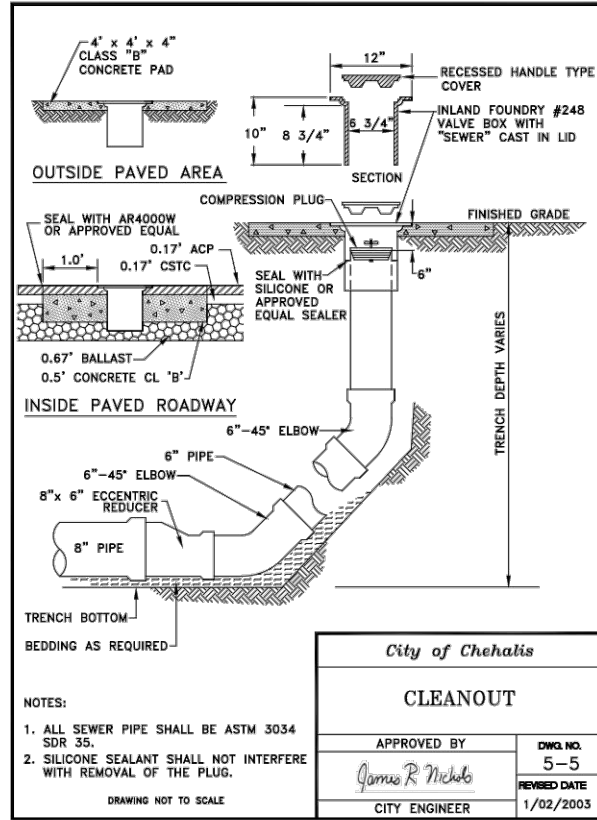
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Details
Standard Details

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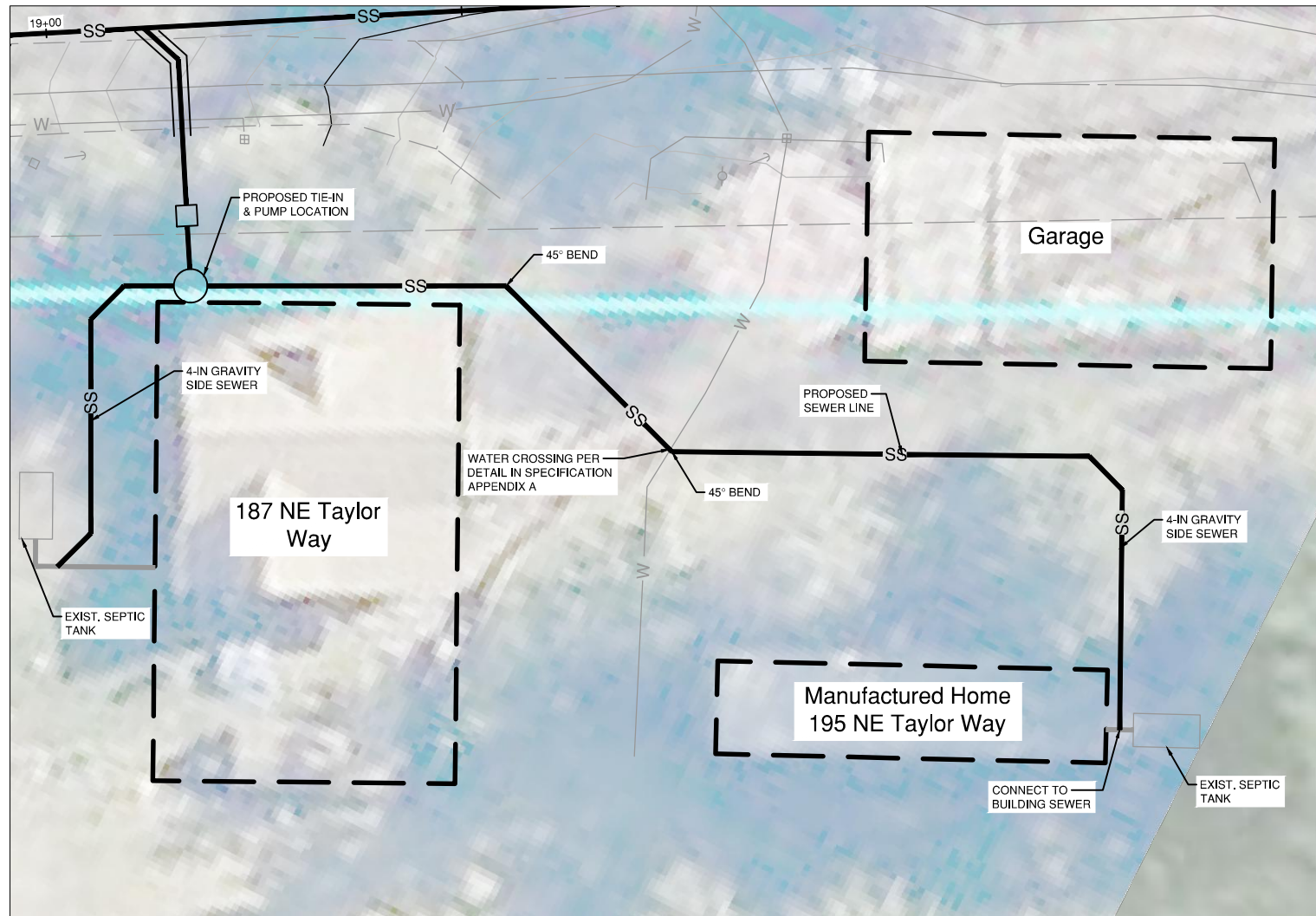


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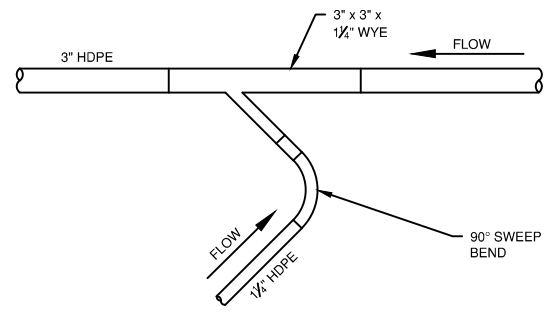
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1 187 NE Taylor Way Schematic
 Scale: 1:10



NOTES:
 1. REFER TO APPENDIX A, FIGURE 6

2 Sanitary Sewer Connection Detail
 N.T.S.

City of Chehalis	Details	Special Details
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Chehalis, Washington		

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