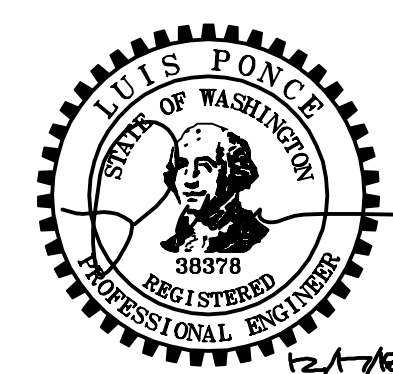
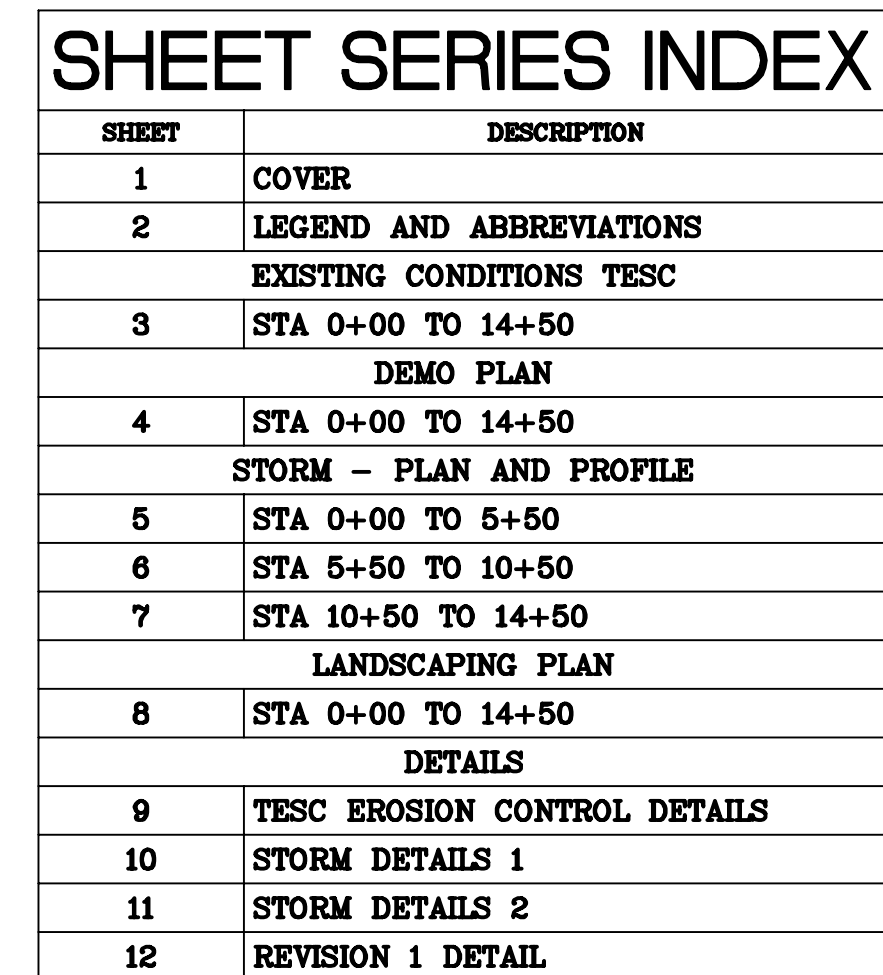


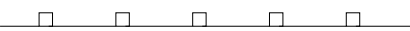
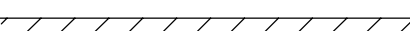



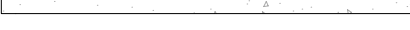
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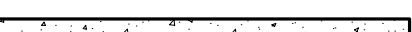
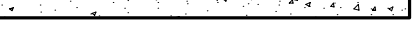
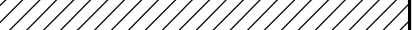
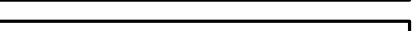




PROJECT LOCATED IN SECTION 29, TOWNSHIP 39N, RANGE 2E, W.M.



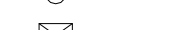










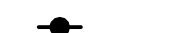




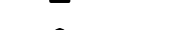









DWG: <b>15021 COVER-GW</b>		DATE <b>12/17/2018</b>
JOB# <b>15021</b>	SCALE H: <b>N/A</b> V: <b>N/A</b>	SHEET <b>1</b> of 11

LEGEND

EXISTING	
— — — — — TB — — — — — TB —	= EXISTING TOP OF BANK
— — — — — BB — — — — — BB —	= EXISTING BOTTOM OF BANK
— — — — — — — — — — — — — — — — —	= EXISTING DITCH $\phi$
— — — — — — — — — — — — — — — — —	= EXISTING GRADE BREAK
— — — — — 95 — — — — — — — — — — —	= EXISTING MAJOR CONTOUR
— — — — — 95 — — — — — — — — — — —	= EXISTING MINOR CONTOUR
	= EXISTING GUARDRAIL
— — — — — X — — — — — X — — — — — X —	= EXISTING FENCE
— — — — — — — — — — — — — — — — —	= EXISTING GRAVEL
— — — — — — — — — — — — — — — — —	= EXISTING WALL
	= EXISTING BUILDING
— — — — — — — — — — — — — — — — —	= EXISTING PROPERTY BOUNDARY
— — — — — — — — — — — — — — — — —	= EXISTING RIGHT OF WAY
— — — — — — — — — — — — — — — — —	= EXISTING RIGHT OF WAY $\phi$
— — — — — — — — — — — — — — — — —	= EXISTING EASEMENT
— — — — — — — — — — — — — — — — —	= EXISTING ROAD $\phi$
— — — — — — — — — — — — — — — — —	= EXISTING WETLANDS BOUNDARY
— — — — — — — — — — — — — — — — —	= EXISTING TRAFFIC STRIPING
— — — — — — — — — — — — — — — — —	= EXISTING EDGE OF PAVEMENT
— — — — — — — — — — — — — — — — —	= EXISTING FLOWLINE
— — — — — — — — — — — — — — — — —	= EXISTING TOP BACK OF CURB
— — — — — — — — — — — — — — — — —	= EXISTING SIDEWALK
— — — — — UGP — — — — — UGP —	= EXISTING POWER BURIED
— — — — — OHP — — — — — OHP —	= EXISTING OVERHEAD POWER
— — — — — UGC — — — — — UGC —	= EXISTING COMMUNICATIONS BURIED
— — — — — OHC — — — — — OHC —	= EXISTING OVERHEAD COMMUNICATIONS
— — — — — FO — — — — — FO —	= EXISTING FIBER OPTICS BURIED
— — — — — TV — — — — — TV —	= EXISTING TV BURIED
— — — — — T — — — — — T —	= EXISTING TELEPHONE BURIED
— — — — — C — — — — — C —	= EXISTING CONDUIT
— — — — — G — — — — — G —	= EXISTING GAS MAIN
— — — — — W — — — — — W —	= EXISTING WATER MAIN
— — — — — IRR — — — — — IRR —	= EXISTING IRRIGATION LINE
— — — — — FM — — — — — FM —	= EXISTING SANITARY SEWER FORCE MAIN
— — — — — SS — — — — — SS —	= EXISTING SANITARY SEWER
— — — — — SD — — — — — SD —	= EXISTING STORM DRAIN
— — — — — OHW — — — — — OHW —	= EXISTING ORDINARY HIGH WATER
	= EXISTING CULVERT
	= EXISTING TREE LINE
	= EXISTING CONCRETE
	= EXISTING RR TRACKS

PROPOSED	
— — — — — TB — — — — — TB —	= PROPOSED TOP OF BANK
— — — — — BB — — — — — BB —	= PROPOSED TOE OF BANK
— — — — — — — — — — — — — — — — —	= PROPOSED DITCH $\phi$
— — — — — 95 — — — — — — — — — — —	= PROPOSED GRADE BREAK
— — — — — 95 — — — — — — — — — — —	= PROPOSED MAJOR CONTOUR
— — — — — 95 — — — — — — — — — — —	= PROPOSED MINOR CONTOUR
	= PROPOSED GUARDRAIL
— — — — — X — — — — — X — — — — — X —	= PROPOSED FENCE
— — — — — — — — — — — — — — — — —	= PROPOSED GRAVEL
— — — — — — — — — — — — — — — — —	= PROPOSED WALL
	= PROPOSED BUILDING
— — — — — — — — — — — — — — — — —	= PROPOSED PAVEMENT VALLEY
— — — — — — — — — — — — — — — — —	= PROPOSED RIGHT OF WAY
— — — — — — — — — — — — — — — — —	= PROPOSED AUTOTURN
— — — — — — — — — — — — — — — — —	= PROPOSED STORM DRAIN EASEMENT
— — — — — — — — — — — — — — — — —	= PROPOSED ROAD $\phi$
— — — — — — — — — — — — — — — — —	= PROPOSED SAWCUT
— — — — — — — — — — — — — — — — —	= PROPOSED TRAFFIC STRIPE
— — — — — — — — — — — — — — — — —	= PROPOSED ROAD EDGE OF PAVEMENT
— — — — — — — — — — — — — — — — —	= PROPOSED CURB AND GUTTER
— — — — — — — — — — — — — — — — —	= PROPOSED PATH
— — — — — — — — — — — — — — — — —	= PROPOSED SIDEWALK
— — — — — PR — — — — — PR —	= PROPOSED POWER LINE
	= PROPOSED ROCK WALL
— — — — — — — — — — — — — — — — —	= PROPOSED PARKING STRIPE
— — — — — TS — — — — — TS —	= PROPOSED TRAFFIC SIGNAL CONDUCTOR
— — — — — FO — — — — — FO —	= PROPOSED FIBER OPTICS
— — — — — X — — — — — X — — — — — X —	= PROPOSED SILT FENCE
— — — — — C — — — — — C —	= PROPOSED CONDUIT
— — — — — — — — — — — — — — — — —	= PROPOSED HANDRAIL
— — — — — TCE — — — — — TCE —	= PROPOSED TEMPORARY CONSTRUCTION EASEMENT
— — — — — IRR — — — — — IRR —	= PROPOSED IRRIGATION LINE
— — — — — W — — — — — W —	= PROPOSED WATER MAIN
— — — — — FM — — — — — FM —	= PROPOSED SANITARY SEWER FORCE MAIN
— — — — — SS — — — — — SS —	= PROPOSED SANITARY SEWER
— — — — — SD — — — — — SD —	= PROPOSED STORM DRAIN
	= PROPOSED CULVERT
	= PROPOSED TREE LINE
	= PROPOSED CONC. SIDEWALK/DRIVEWAY
	= PROPOSED INFILTRATION TRENCH
	= PROPOSED INFILTRATION FILTER MEDIA
	= PROPOSED GRIND
	= PROPOSED DEMOLITION AREA
	= PROPOSED ASPHALT
	= PROPOSED RIGHT OF WAY TAKE

EXISTING	
	= EXISTING SIGNAL POLE
	= EXISTING SIGNAL POLE W/ LUMINAIRE
	= EXISTING STREET LIGHT ASSEMBLY
	= EXISTING YARD LIGHT
	= EXISTING GUY WIRE
	= EXISTING GAS METER
	= EXISTING GAS VALVE
	= EXISTING TRANSFORMER PAD
	= EXISTING POWER VAULT
	= EXISTING JBOX
	= EXISTING SOIL BORING LOCATION
	= EXISTING MAIL BOX
	= EXISTING WATER SPIGOT
	= EXISTING WATER BLOW OFF
	= EXISTING WATER METER
	= EXISTING WATER VALVE
	= EXISTING FIRE HYDRANT
	= EXISTING TRAFFIC SIGNAL VAULT
	= EXISTING SEWER MANHOLE
	= EXISTING STORM DRAIN CATCH BASIN TYPE I
	= EXISTING STORM DRAIN CATCH BASIN TYPE II
	= EXISTING UTILITY POLE
	= EXISTING MONITORING WELL
	= EXISTING STORM CLEANOUT
	= EXISTING SEWER CLEANOUT
	= EXISTING SIGN
	= EXISTING TELEPHONE PEDESTAL
	= EXISTING COMMUNICATIONS VAULT
	= EXISTING BENCH MARK
	= EXISTING NAIL AND SHINER
	= EXISTING IRON PIPE
	= EXISTING MONUMENT (IN CASE)
	= EXISTING MONUMENT (SURFACE)
	= EXISTING ANGLE POINT
	= EXISTING TREE STUMP
	= EXISTING TREE
	= EXISTING VEGETATION

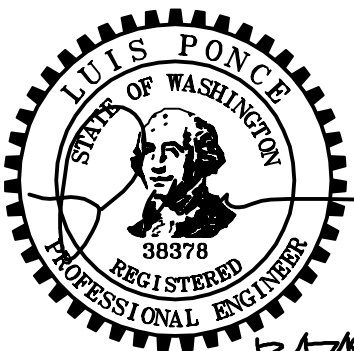
PROPOSED	
	= PROPOSED STORM DRAIN INLET
	= PROPOSED COUPLER
	= PROPOSED WATER METER
	= PROPOSED WATER VALVE
	= PROPOSED STORM DRAIN CATCH BASIN TYPE II
	= PROPOSED SANITARY SEWER MANHOLE
	= PROPOSED STORM DRAIN CATCH BASIN TYPE I
	= PROPOSED HYDRANT
	= PROPOSED UTILITY POLE
	= PROPOSED JBOX (TYPE I, II, III)
	= PROPOSED MONITORING WELL
	= PROP STORM CLEANOUT
	= PROPOSED SANITARY SEWER CLEAN OUT
	= PROPOSED SIGN
	= FLOW ARROW
	= PROPOSED TREE
	= SECTION MARK
	= DETAIL NUMBER
	= SHEET NUMBER
	= EXISTING ELEVATION $\bullet$ REFERENCED ALIGNMENT
	= PROPOSED ELEVATION $\bullet$ REFERENCED ALIGNMENT
	= STATION

ABBREVIATIONS

$\phi$ = DIAMETER	EVLS = END VERTICAL CURVE STATION	MOD = MODIFIED	S = SOUTH
AC = ASBESTOS CEMENT	EX, EXIST = EXISTING	MON = MONUMENT	SCH = SCHEDULE
AD = ALGEBRAIC DIFFERENCE	IR = EXISTING IRRIGATION	MPOC = MID-POINT ON CURVE	SD = STORM DRAIN
ASPH = ASPHALT	F&C = FRAME AND COVER	MTR = METER	SDCB = STORM DRAIN CATCH BASIN
BLDG = BUILDING	F&G = FRAME AND GRATE	MW = MONITORING WELL	SDMH = STORM DRAIN MANHOLE
BVCE = BEGIN VERTICAL CURVE ELEVATION	FF = FINISHED FLOOR	N = NORTH	SE = SOUTHEAST
BVCE = BEGIN VERTICAL CURVE STATION	FG = FINISHED GRADE	NE = NORTHEAST	SN = EXISTING SIGN
C&G = CURB & GUTTER	FL = FLOW LINE	NW = NORTHWEST	SP = STANDARD PLAN
CATV = CABLE TELEVISION	FT = FEET	OC = ON CENTER	SSMH = SANITARY SEWER MANHOLE
COF = CONTROLLED DENSITY FILL	FT/FT = FEET PER FOOT	PC = PAVEMENT	STA = STATION
$\phi$ = GLASS, CENTERLINE	GALV = GALVANIZED	PC = POINT OF CURVATURE	STD = STANDARD
CMP = CORRUGATED METAL PIPE	GRVL = GRAVEL	PCC = POINT OF COMPOUND CURVATURE,	SW = SOUTHWEST
CMU = CONCRETE MASONRY UNIT	GV = GATE VALVE	PORTLAND CEMENT CONCRETE	TEL = TELEPHONE
COMP = COMPACTED	HDPE = HIGH DENSITY POLYETHYLENE	PED = PEDESTAL	TL = TRAFFIC LOOP
CON = CONIFER	HMA = HOT MIX ASPHALT	POC = POINT ON CURVE	TYP = TYPICAL
CONC = CONCRETE	HP = HIGH POINT	POSS = POSSIBLE	UP = UTILITY POLE
CONT = CONTOUR	HYD = HYDRANT	PRC = POINT OF REVERSE CURVE	UTIL = UTILITY
CPSSP = CORRUGATED POLYETHYLENE	IE, INV = INVERT ELEVATION	PROP = PROPOSED	VC = VERTICAL CURVE
STORM SEWER PIPE	IW = INJECTION WELL	PT = POINT OF TANGENCY	VLT = VAULT
CULV = CULVERT	L = LENGTH	PVC = POLYVINYL CHLORIDE	VPC = VERTICAL POINT OF CURVATURE
D/W = DRIVEWAY	LDCS = LANDSCAPING	PVI = POINT OF VERTICAL INTERSECTION	VPI = VERTICAL POINT OF INTERSECTION
DEC = DECIDUOUS	LF = LINEAR FEET	PWR = POWER	VPT = VERTICAL POINT OF TANGENCY
DI = DUCTILE IRON	LGC = LOGGERS	R = RADIUS	W = WEST
E = EAST	LP = LOW POINT	R&C = RING AND COVER	WM = WATER METER
EOP, EP = EDGE OF PAVEMENT	LT = LEFT	RET = RETAINING	WSDOT = WASHINGTON STATE DEPARTMENT
EQUIV = EQUIVALENT	MAX = MAXIMUM	ROW = RIGHT OF WAY	OF TRANSPORTATION
EVCE = END VERTICAL CURVE ELEVATION	MIN = MINIMUM	RT = RIGHT	XEOA = EXISTING EDGE OF ASPHALT

NOTES

1. FIELD WORK AND TOPOGRAPHIC SURVEY PERFORMED BY COMPASS POINT SURVEY, LLC, 523 FRONT ST., LYNDEN, WA.
2. HORIZONTAL DATUM: WASHINGTON STATE PLANE (NORTH) COORDINATES - NAD 83-2011, VERTICAL DATUM: NGVD 29
3. HERRINGBONE GRATES SHALL BE USED ON ALL STORM DRAIN STRUCTURE UNLESS OTHERWISE NOTED.
4. CATCH BASINS & MANHOLE CENTER OF STRUCTURE ORIENTATION RELATIVE TO FRAME & GRATE OR RING & COVER SHALL BE AS SHOWN ON THE PLANS.



12/17/18  
AS-BUILT

DESIGNED BY

DRAWN BY

CHECKED BY



**Reichhardt & Ebe**  
**ENGINEERING INC**

P.O. Box 978 | 423 Front Street, Lynden, WA 98264 (360) 354-3687  
813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1713

NO.

DATE

DESCRIPTION

BY

CITY OF FERNDALE  
2095 MAIN STREET  
FERNDALE, WA 98248

**GATEWAY NORTH**  
ROADWAY AND UTILITIES IMPROVEMENT PROJECT  
LEGEND AND ABBREVIATIONS

DWG 15021 COVER-GW

JOB#

15021

SCALE

H: N/A

V: N/A

DATE

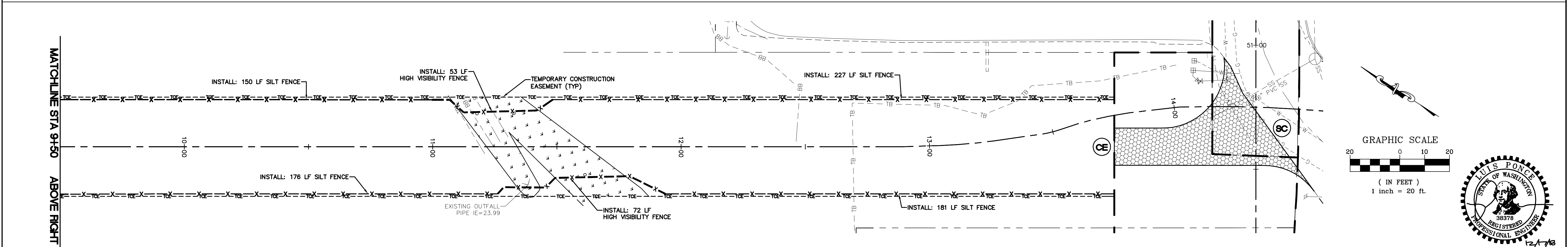
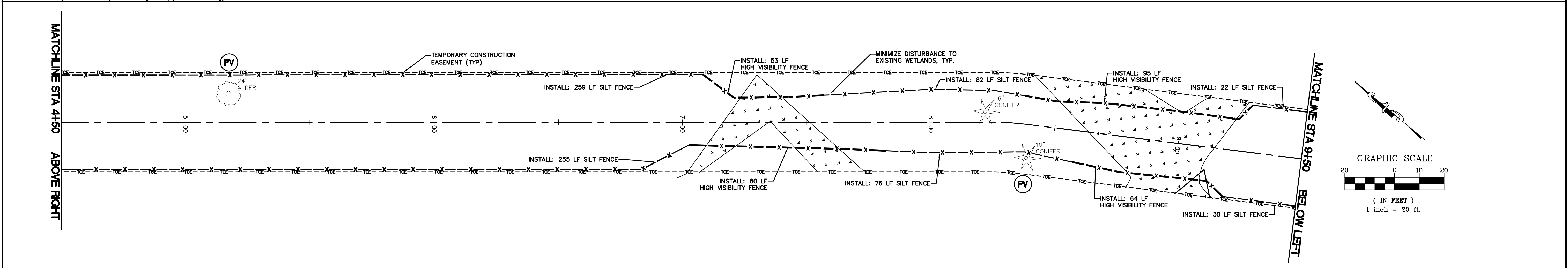
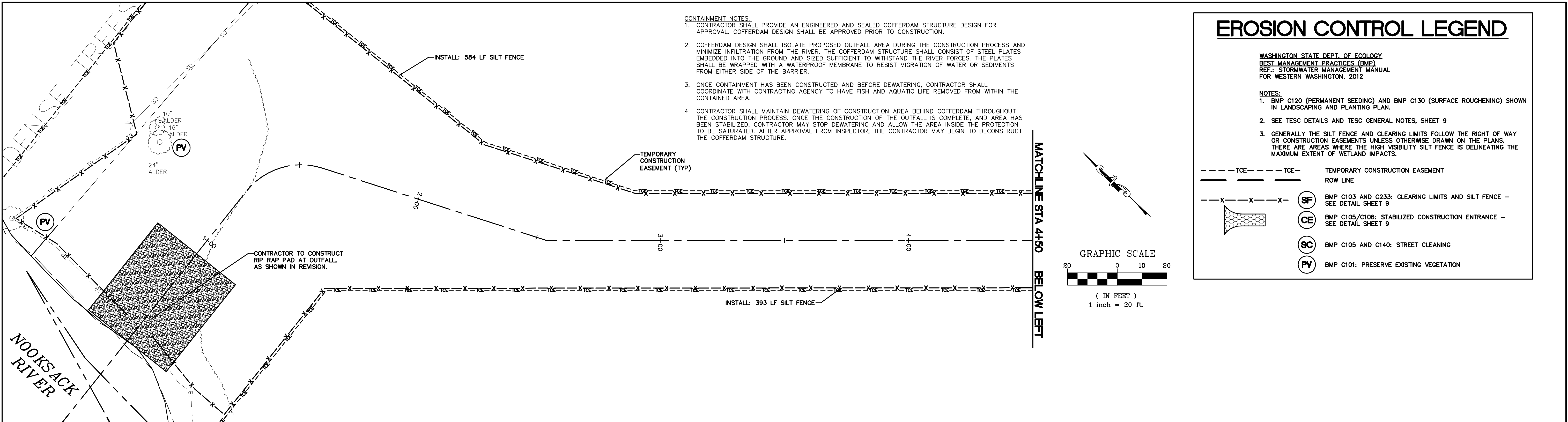
12/17/2018


SHEET

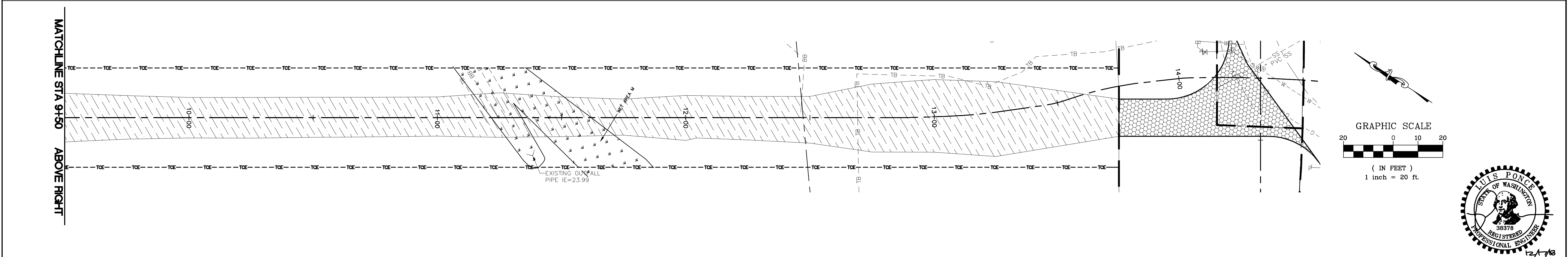
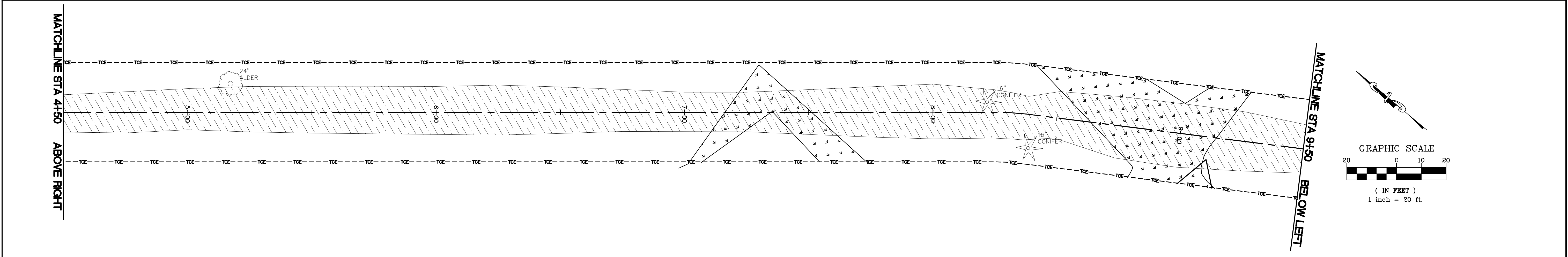
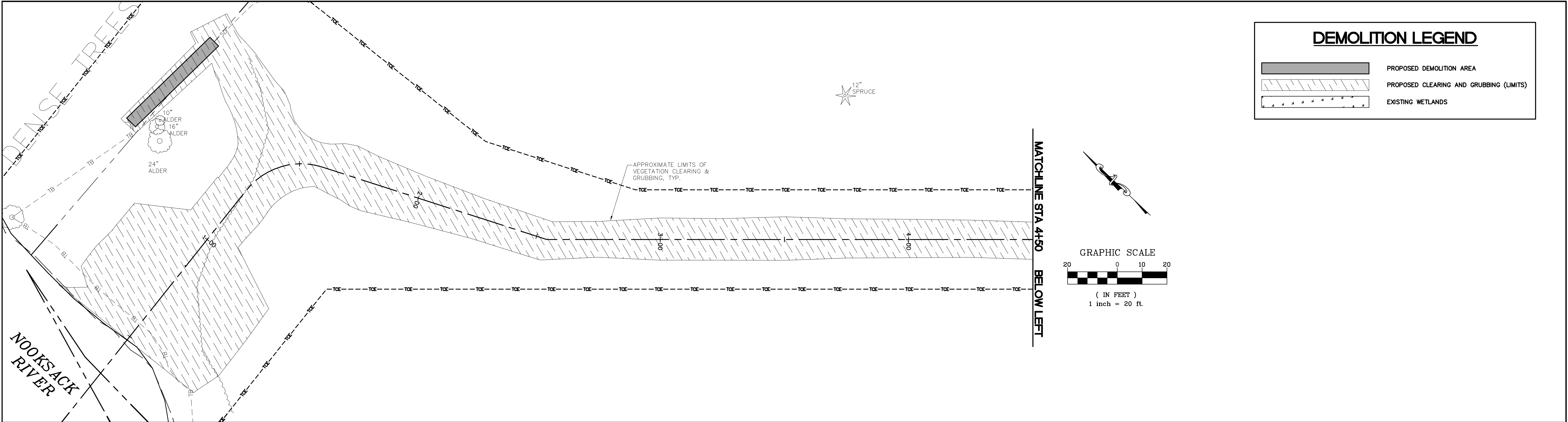
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of 11





12/17/18	AS-BUILT	DESIGNED BY BEK	 <b>Reichhardt &amp; Ebe</b> ENGINEERING INC						CITY OF FERNDALE 2095 MAIN STREET FERNDALE, WA 98248	GATEWAY NORTH EXISTING CONDITIONS TESC  STA 0+00 TO 14+50	DWG 15021 EX COND TESC-GW		DATE 12/17/2018		
		DRAWN BY RWG		P.O. Box 978   423 Front Street, Lynden, WA 98264 (360) 354-3687									JOB#	SCALE	SHEET
		CHECKED BY LP		813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1713	NO.	DATE	DESCRIPTION	BY			15021	H: 1"=20' V: N/A	3 of 11		



SUBMITTED WITH  
DESIGN PLAN

DESIGNED BY  
BEK  
DRAWN BY  
RWG  
CHECKED BY  
LP



**Reichhardt & Ebe**  
**ENGINEERING INC**

P.O. Box 978 | 423 Front Street, Lynden, WA 98264 (360) 354-3687  
813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1713

NO.	DATE	DESCRIPTION	BY	

CITY OF FERNDAL  
2095 MAIN STREET  
FERNDAL, WA 98248

GATEWAY NORTH  
DEMO PLAN  
STA 0+00 TO 14+50

DWG 15021 DEMO-GW

JOB#

15021

SCALE

H: 1"=20'

V: N/A

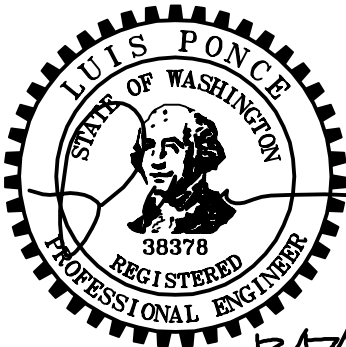
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12/17/2018

SHEET

4

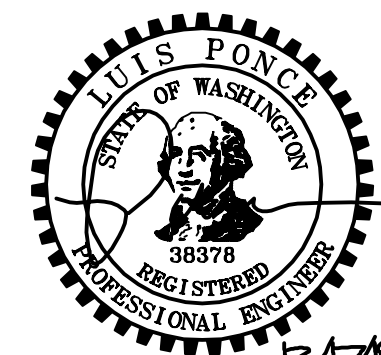
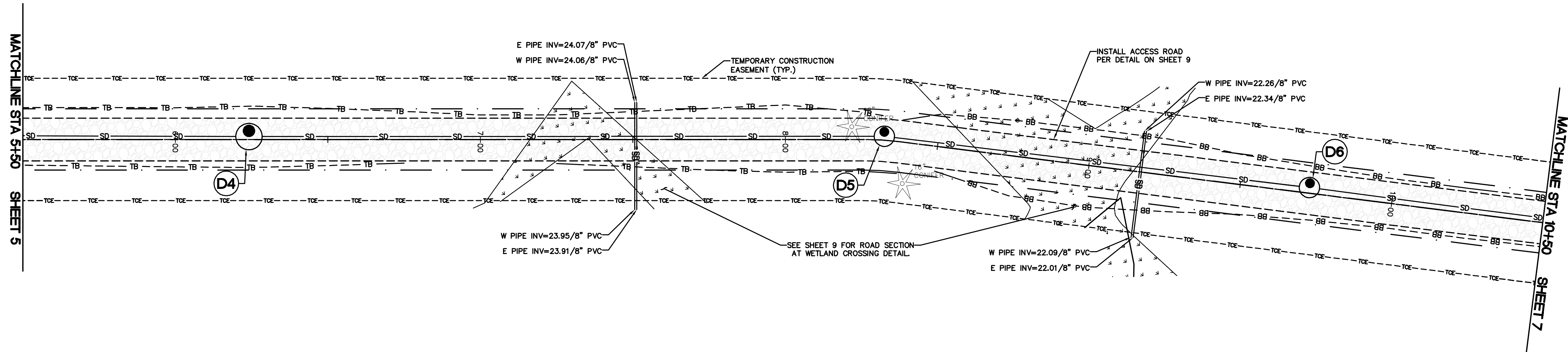
of 11



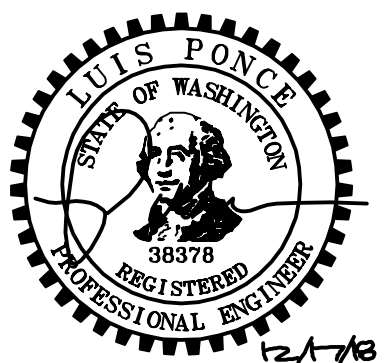
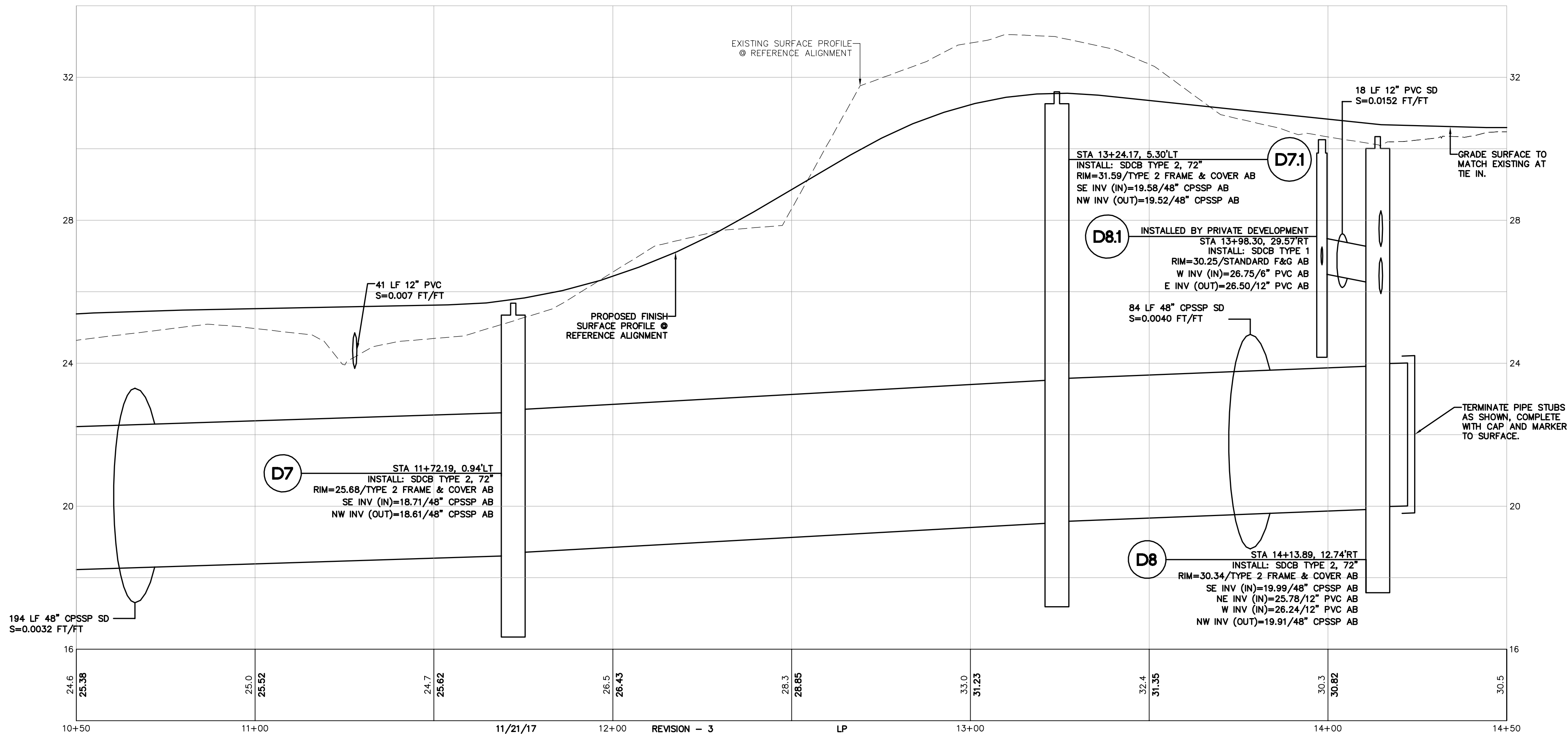
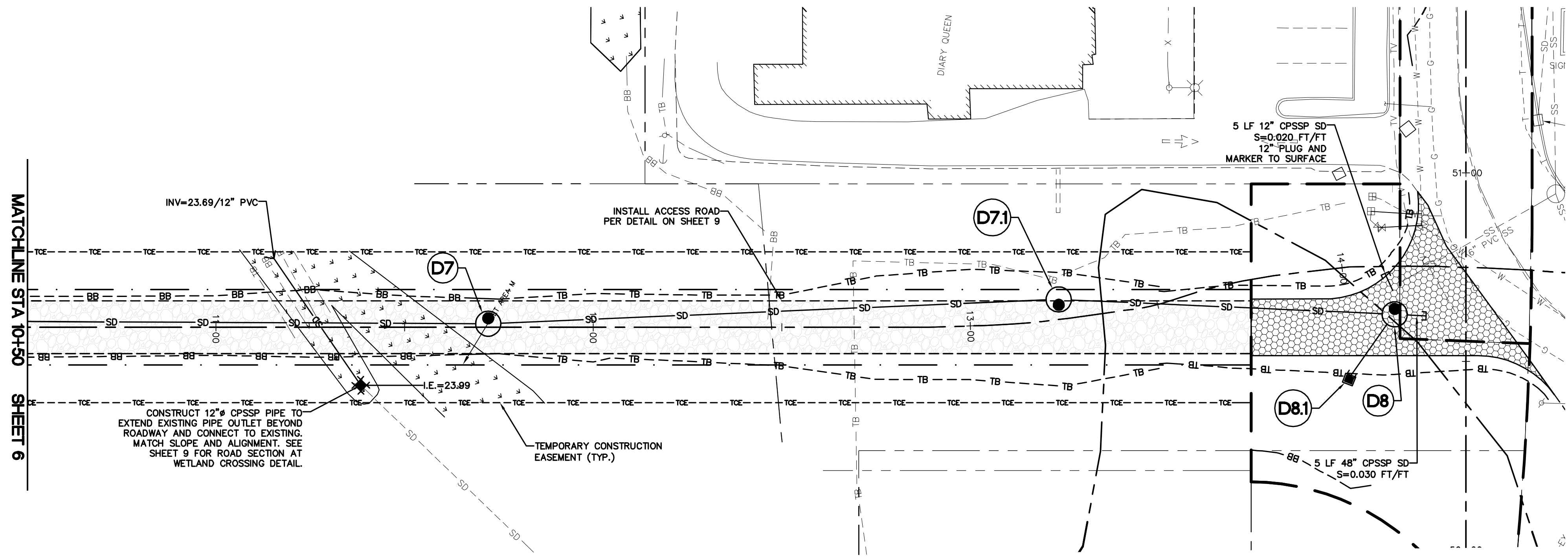
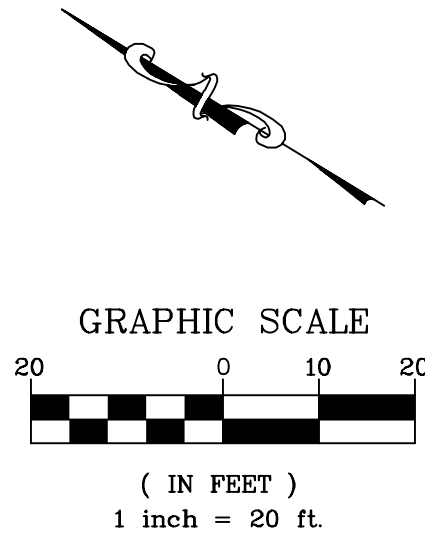
12/17/18







DWG 15021 STORM-GW		DATE 12/17/2018
JOB# 15021	SCALE H: 1"=20'      V: 1"=2'	SHEET 6 of 11



12/17/18  
**AS-BUILT**

DESIGNED BY  
BEK  
DRAWN BY  
RWG  
CHECKED BY  
LP

**R&E** Reichhardt & Ebe  
ENGINEERING INC  
P.O. Box 978 | 423 Front Street, Lynden, WA 98264 (360) 354-3687  
813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1713

NO.		DATE	DESCRIPTION	BY
		11/07/17	REVISION - 2	LP
		6/30/17	ADDENDUM - 3	LP
		6/23/17	ADDENDUM - 1	LP

CITY OF FERNDAL  
2095 MAIN STREET  
FERNDAL, WA 98248

**GATEWAY NORTH**  
STORM - PLAN AND PROFILE  
STA 10+50 TO 14+50

DWG 15021 STORM-GW  
JOB# 15021  
SCALE H: 1"=20' V: 1"=2'

DATE 12/17/2018  
SHEET 7 of 11



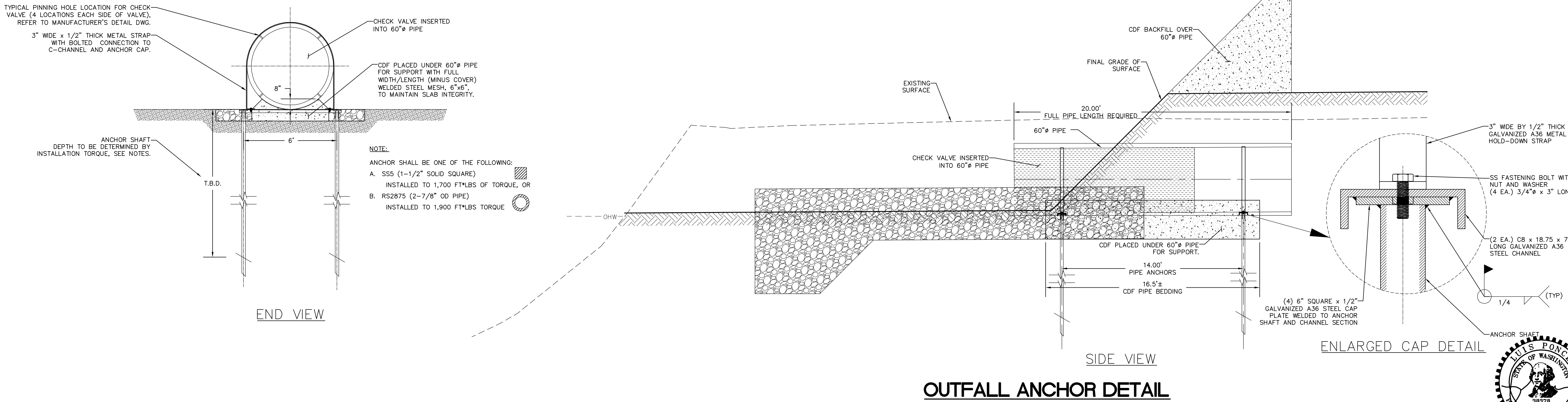
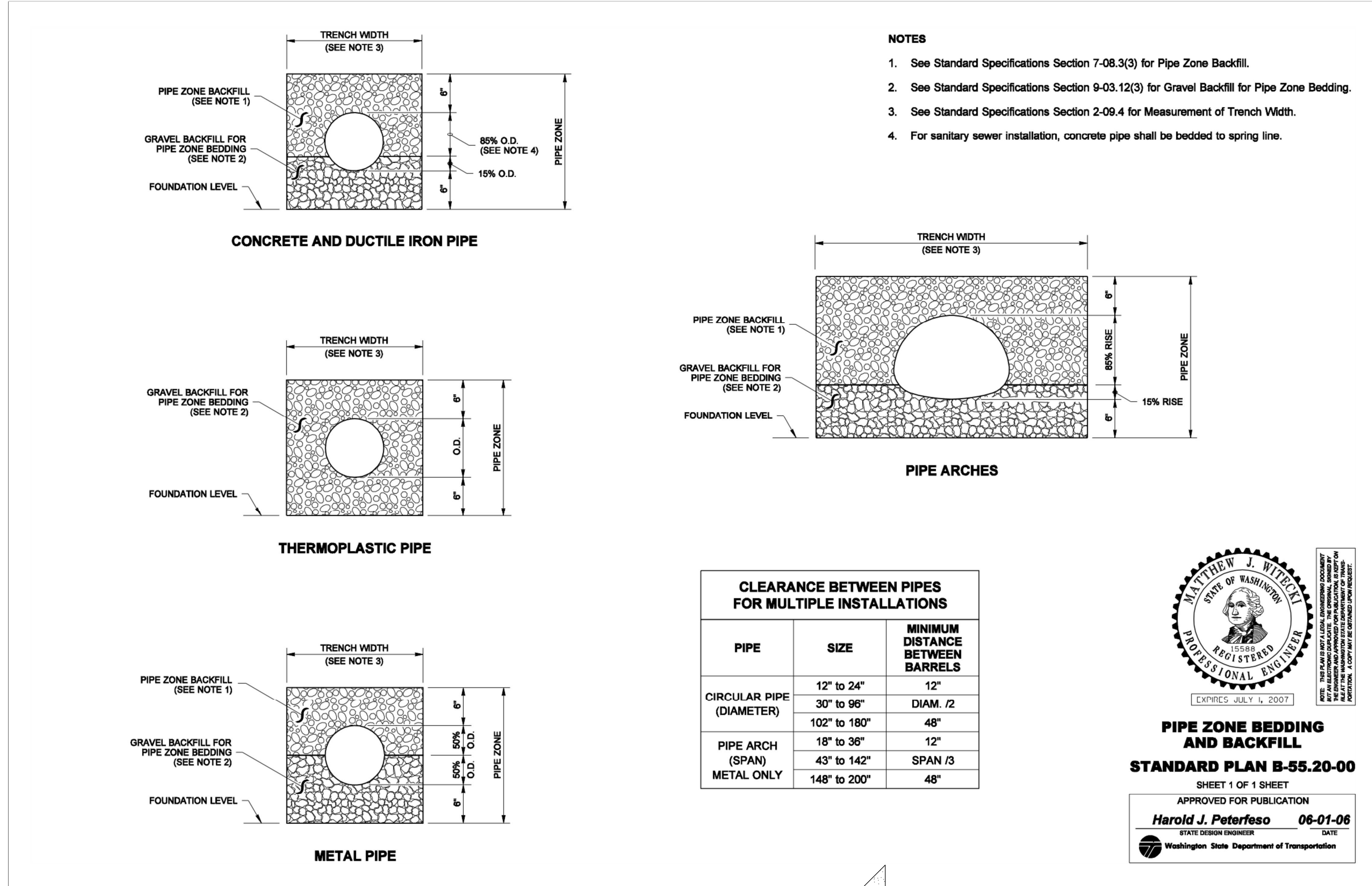
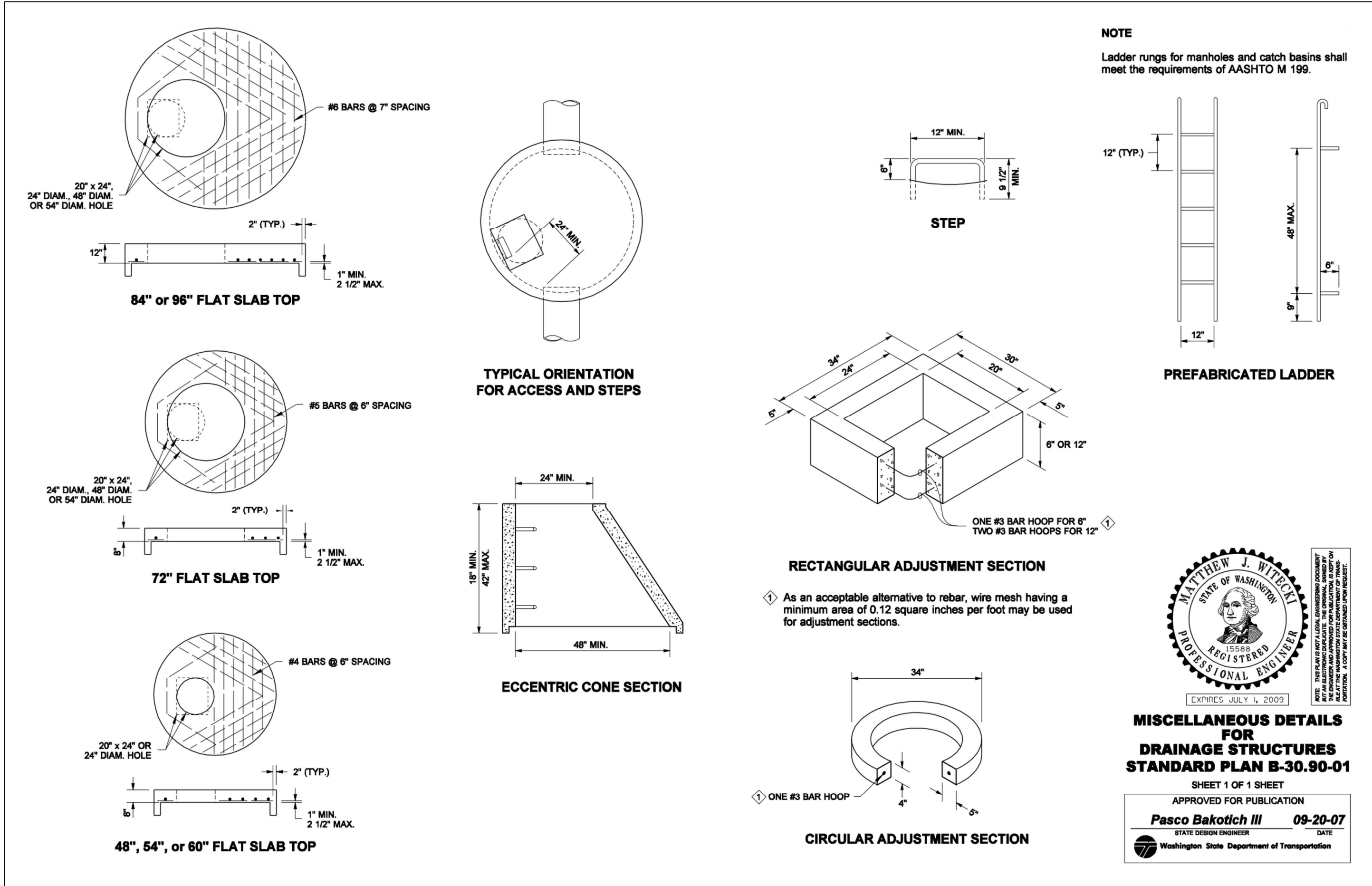







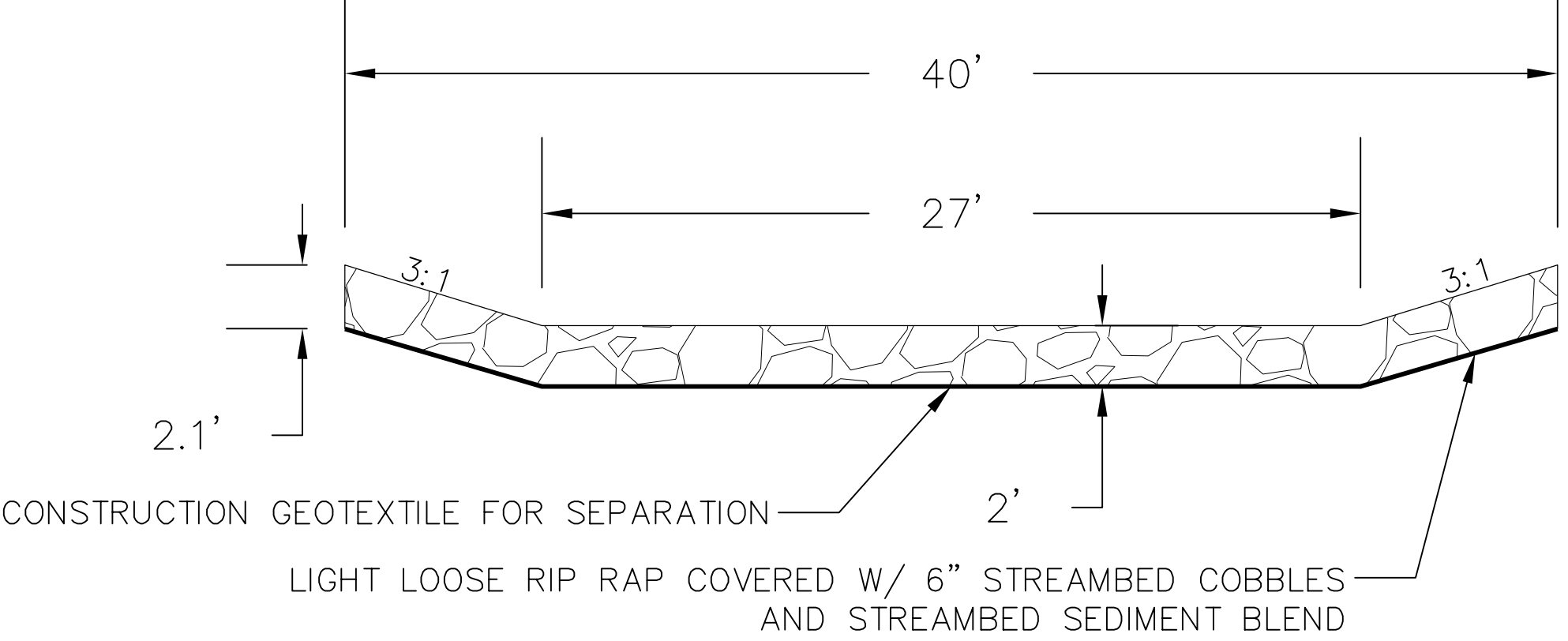




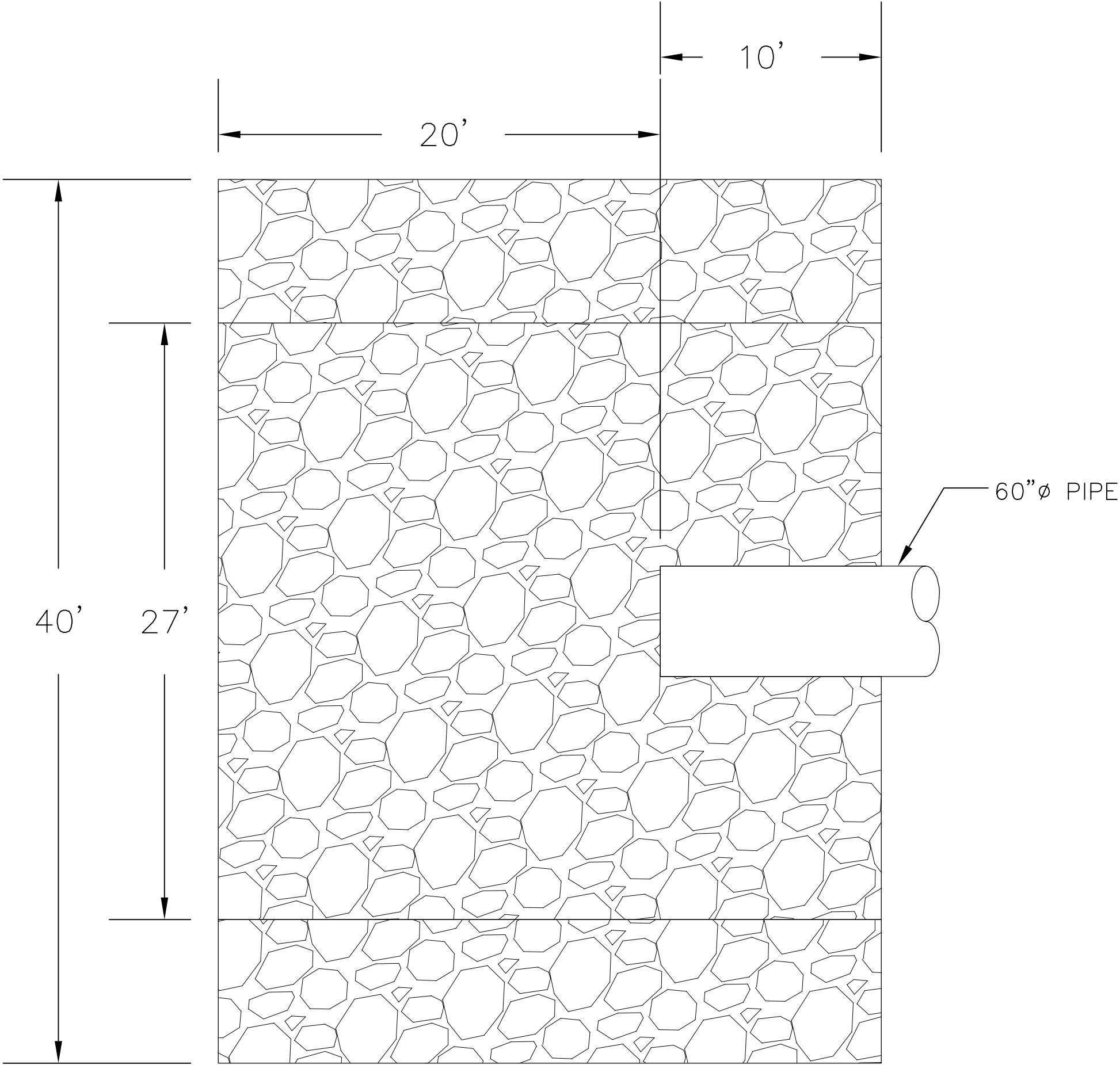


12/17/18	AS-BUILT	DESIGNED BY	 <b>Reichhardt &amp; Ebe</b> ENGINEERING INC					CITY OF FERNDAL 2095 MAIN STREET FERNDAL, WA 98248	GATEWAY NORTH DETAILS STORM DETAILS 2	DWG 15021 DETAILS-GW		DATE
		LP					12/17					
		DRAWN BY										
		LMH										
CHECKED BY		P.O. Box 978   423 Front Street, Lynden, WA 98264 (360) 354-3687		6/23/17	ADDENDUM - 1	LP				JOB#	SCALE	SHEET
LP		813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1713		NO.	DATE	DESCRIPTION	BY			15021	H: N/A V: N/A	

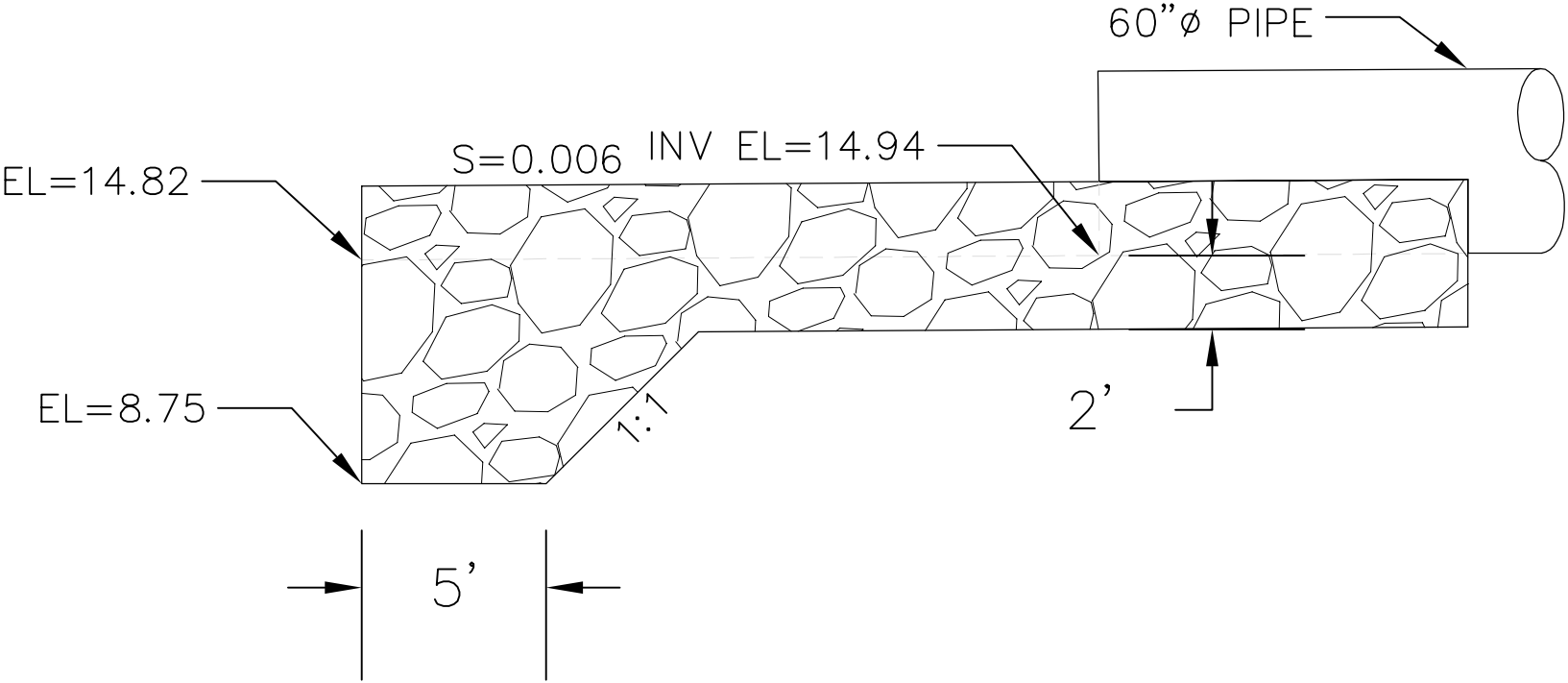




TYPICAL CROSS SECTION



PLAN VIEW



PROFILE VIEW  
SCREW ANCHORS NOT  
SHOWN FOR CLARITY

OUTFALL DISPERSION SWALE

NTS



12/17/18  
AS-BUILT

DESIGNED BY  
BEK  
DRAWN BY  
RWG  
CHECKED BY  
LP  
**R&E Reichhardt & Ebe**  
**ENGINEERING INC**  
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NO.	DATE	DESCRIPTION	BY
	10/13/17	REVISION - 1	LP
	6/23/17	ADDENDUM - 1	LP

CITY OF FERNDALE 2095 MAIN STREET FERNDALE, WA 98248	GATEWAY NORTH STORM DETAIL	DWG 15021 DETAILS-GW		DATE 12/17/2018
		JOB# 15021	SCALE H: V:	SHEET 12 of 11