

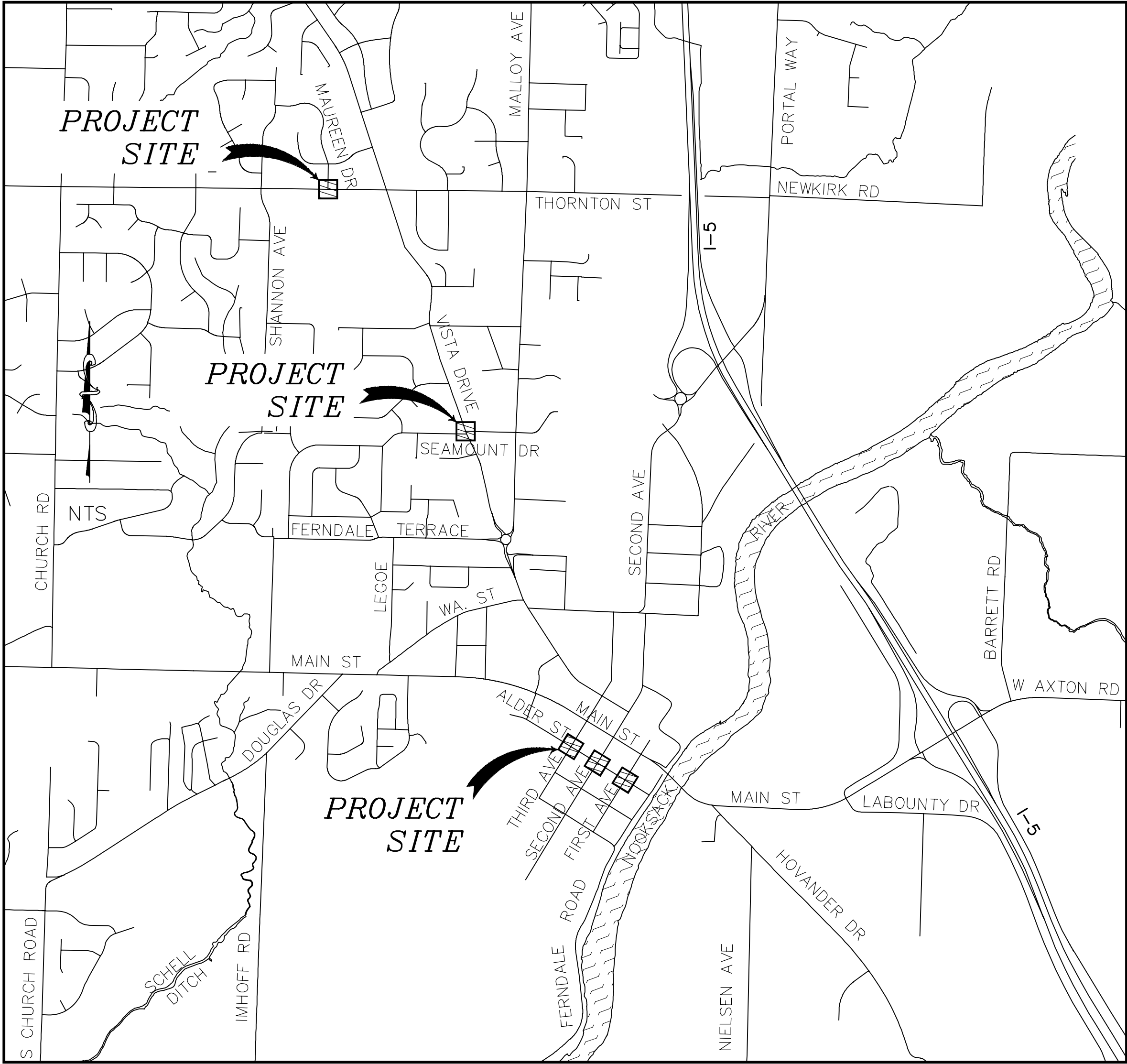
COMPLETE STREETS

FERNDALE WA

CITY - PROJECT NO. ST2019-02
TIB PROJECT NO. C-W-985(001)-1

VICINITY MAP

PROJECT LOCATED IN SECTIONS 18, 19 & 29, TOWNSHIP 39, RANGE 02, W.M.



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11/9/21 AS-BUILT

DESIGNED BY
OAM
DRAWN BY
LMH
CHECKED BY
LP



Reichhardt & Ebe
ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDAL
2095 MAIN ST
FERNDAL, WA 98226

COMPLETE STREETS

COVER

DWG 19024 PLOT

JOB#

19024

SCALE

H: N/A

V: N/A

DATE

9/23/20

SHEET

1
of 23

LEGEND

EXISTING		
-----TB-----TB-----	=	EXISTING TOP OF BANK
-----BB-----BB-----	=	EXISTING BOTTOM OF BANK
-----CL-----CL-----	=	EXISTING DITCH CL
-----	=	EXISTING GRADE BREAK
-----95-----	=	EXISTING MAJOR CONTOUR
-----94-----	=	EXISTING MINOR CONTOUR
-----	=	EXISTING GUARDRAIL
-----X-----X-----X-----	=	EXISTING FENCE
-----O-----O-----O-----	=	EXISTING HANDRAIL
-----//-----//-----//-----	=	EXISTING GRAVEL
-----	=	EXISTING WALL
-----	=	EXISTING BUILDING
-----	=	EXISTING PROPERTY BOUNDARY
-----	=	EXISTING RIGHT OF WAY
-----	=	EXISTING RIGHT OF WAY CL
-----	=	EXISTING EASEMENT
-----	=	EXISTING SECTION LINE
-----	=	EXISTING ROAD CL
-----	=	EXISTING WETLANDS BOUNDARY
-----	=	EXISTING STRIPE
-----//-----//-----//-----	=	EXISTING EDGE OF PAVEMENT
-----	=	EXISTING FLOWLINE
-----	=	EXISTING TOP BACK OF CURB
-----	=	EXISTING SIDEWALK
-----UGP-----UGP-----	=	EXISTING BURIED POWER
-----OHP-----OHP-----	=	EXISTING OVERHEAD POWER
-----UGC-----UGC-----	=	EXISTING BURIED COMMUNICATIONS
-----OHC-----OHC-----	=	EXISTING OVERHEAD COMMUNICATIONS
-----FO-----FO-----	=	EXISTING BURIED FIBER OPTICS
-----TV-----TV-----	=	EXISTING BURIED TV
-----T-----T-----T-----	=	EXISTING BURIED TELEPHONE
-----C-----C-----C-----	=	EXISTING CONDUIT
-----G-----G-----G-----	=	EXISTING GAS MAIN
-----W-----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 RR TRACKS
-----	=	EXISTING CULVERT
-----	=	EXISTING TREE LINE
-----	=	EXISTING CONCRETE

LINE TYPES

PROPOSED		
-----TB-----TB-----	=	PROPOSED TOP OF BANK
-----BB-----BB-----	=	PROPOSED BOTTOM OF BANK
-----CL-----CL-----	=	PROPOSED DITCH CL
-----	=	PROPOSED GRADE BREAK
-----95-----	=	PROPOSED MAJOR CONTOUR
-----94-----	=	PROPOSED MINOR CONTOUR
-----	=	PROPOSED GUARDRAIL
-----X-----X-----X-----	=	PROPOSED FENCE
-----O-----O-----O-----	=	PROPOSED HANDRAIL
-----//-----//-----//-----	=	PROPOSED GRAVEL
-----	=	PROPOSED WALL
-----	=	PROPOSED BUILDING
-----	=	PROPOSED PAVEMENT VALLEY
-----	=	PROPOSED RIGHT OF WAY
-----	=	PROPOSED CONSTRUCTION EASEMENT
-----	=	PROPOSED ROAD CL
-----	=	PROPOSED SAWCUT
-----	=	PROPOSED STRIPE
-----	=	PROPOSED EDGE OF PAVEMENT
-----	=	PROPOSED CURB AND GUTTER
-----	=	PROPOSED PATH
-----	=	PROPOSED SIDEWALK
-----UGP-----	=	PROPOSED BURIED POWER
-----OHP-----	=	PROPOSED OVERHEAD POWER
-----TS-----	=	PROPOSED TRAFFIC SIGNAL CONDUCTOR
-----FO-----	=	PROPOSED FIBER OPTICS
-----UGC-----	=	PROPOSED BURIED COMMUNICATIONS
-----OHC-----	=	PROPOSED OVERHEAD COMMUNICATIONS
-----HVSF-----	=	PROPOSED HIGH VISIBILITY SILT FENCE
-----SF-----	=	PROPOSED SILT FENCE
-----C-----	=	PROPOSED CONDUIT
-----IRR-----	=	PROPOSED IRRIGATION LINE
-----W-----	=	PROPOSED WATER MAIN
-----FM-----	=	PROPOSED SANITARY SEWER FORCE MAIN
-----SS-----	=	PROPOSED SANITARY SEWER
-----SD-----	=	PROPOSED STORM DRAIN
-----	=	PROPOSED CULVERT
-----	=	PROPOSED TREE/SHRUB LINE
-----	=	PROPOSED CONC. SIDEWALK/DRIVEWAY
-----	=	PROPOSED TOPSOIL
-----	=	PROPOSED SEEDED LAWN
-----	=	PROPOSED PLANING
-----	=	PROPOSED DEMOLITION AREA
-----	=	PROPOSED ASPHALT
-----	=	PROPOSED CLEARING AND GRUBBING LIMITS

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

SYMBOLS

PROPOSED	
	= PROPOSED HYDRANT
	= PROPOSED COUPLER
	= PROPOSED WATER METER
	= PROPOSED WATER VALVE
	= PROPOSED RIP RAP OR QUARRY SPALLS
	= PROPOSED STORM AREA DRAIN
	= PROPOSED STORM DRAIN CATCH BASIN TYPE I/INLET
	= PROPOSED STORM DRAIN CATCH BASIN TYPE II
	= PROPOSED STORM CLEANOUT
	= PROPOSED SANITARY SEWER CLEAN OUT
	= PROPOSED SANITARY SEWER MANHOLE
	= PROPOSED UTILITY POLE
	= PROPOSED JBOX (TYPE I, II, III)
	= PROPOSED MONITORING WELL
	= PROPOSED STOP BAR OR CROSSWALK
	= PROPOSED SIGN
	= FLOW ARROW
	= PROPOSED ROCK WALL
	= PROPOSED TREE
	= SECTION MARK

EROSION CONTROL LEGEND

WASHINGTON STATE DEPT. OF ECOLOGY
BEST MANAGEMENT PRACTICES (BMP)
REF.: STORMWATER MANAGEMENT MANUAL
FOR WESTERN WASHINGTON, 2012

- NOTES:
- BMP C120 (PERMANENT SEEDING) AND BMP C130 (SURFACE ROUGHENING) SHOWN IN LANDSCAPING AND PLANTING PLAN.
 - SEE TESC DETAILS AND TESC GENERAL NOTES, SHEET 18
 - GENERALLY THE SILT FENCE AND CLEARING LIMITS FOLLOW THE RIGHT OF WAY OR CONSTRUCTION EASEMENTS UNLESS OTHERWISE DRAWN ON THE PLANS. THERE ARE AREAS WHERE THE HIGH VISIBILITY SILT FENCE IS DELINEATING THE MAXIMUM EXTENT OF WETLAND IMPACTS.

		= BMP C220: INLET PROTECTION - CB INSERT - SEE DETAIL SHEET 18
		= BMP C208: GEOTEXTILE ENCASED CHECK DAM - SEE DETAIL SHEET 18
		= BMP C105 AND C140: STREET CLEANING

ABBREVIATIONS

A = DELTA	EX, EXIST = EXISTING	MPOC = MID-POINT ON CURVE	SD = STORM DRAIN
# = DIAMETER	IR = EXISTING IRRIGATION	MTR = METER	SDCO = STORM DRAIN CLEAN OUT
AS = ASBESTOS CEMENT	F&C = FRAME & COVER	MW = MONITORING WELL	SDCB = STORM DRAIN CATCH BASIN
AD = ALGEBRAIC DIFFERENCE	F&G = FRAME & GRATE	N = NORTH	SDMH = STORM DRAIN MANHOLE
ASPH = ASPHALT	FF = FINISHED FLOOR	N/A = NOT APPLICABLE	SE = SOUTHEAST
BLDG = BUILDING	FG = FINISHED GRADE	NE = NORTHEAST	SN = EXISTING SIGN
BVCE = BEGIN VERTICAL CURVE ELEVATION	CL = FLOWLINE	NW = NORTHWEST	SP = STANDARD PLAN
BVCS = BEGIN VERTICAL CURVE STATION	FL = FLANGE	NTS = NOT TO SCALE	SSCO = SANITARY SEWER CLEAN OUT
C&G = CURB & GUTTER	FND = FOUND	OC = ON CENTER	SSMH = SANITARY SEWER MANHOLE
CATV = CABLE TELEVISION	FT = FEET	PVMNT = PAVEMENT	STA = STATION
ODF = CONTROLLED DENSITY FILL	FT/FT = FEET PER FOOT	PC = POINT OF CURVATURE	STD = STANDARD
CL = CENTERLINE	GALV = GALVANIZED	PCC = POINT OF COMPOUND CURVATURE, PORTLAND CEMENT CONCRETE	SW = SOUTHWEST
CL = CLASS	GRVL = GRAVEL	PED = PEDESTAL	TBC = TOP BACK OF CONCRETE
OMP = CORRUGATED METAL PIPE	GV = GATE VALVE	POC = POINT ON CURVE	TEL = TELEPHONE
OMU = CONCRETE MASONRY UNIT	HOPE = HIGH DENSITY POLYETHYLENE	POSS = POSSIBLE	TL = TRAFFIC LOOP
COMP = COMPACTED	HMA = HOT MIX ASPHALT	PRC = POINT OF REVERSE CURVE	TYP = TYPICAL
CON = CONIFER	HP = HIGH POINT	PROP = PROPOSED	UP = UTILITY POLE
CONC = CONCRETE	HYD = HYDRANT	PT = POINT OF TANGENCY	UTIL = UTILITY
CONT = CONTOUR	IE, INV = INVERT ELEVATION	PVC = POLYVINYL CHLORIDE	VC = VERTICAL CURVE
CPSSP = CORRUGATED POLYETHYLENE STORM SEWER PIPE	IW = INJECTION WELL	PVI = POINT OF VERTICAL INTERSECTION	VLT = VAULT
CULV = CULVERT	L = LENGTH	PWR = POWER	VPC = VERTICAL POINT OF CURVATURE
D/W = DRIVEWAY	LDSC = LANDSCAPING	R = RADIUS	VPI = VERTICAL POINT OF INTERSECTION
DEC = DECIDUOUS	LF = LINEAR FEET	R&C = RING & COVER	VPT = VERTICAL POINT OF TANGENCY
DI = DUCTILE IRON	LOC = LOCATION	RET = RETAINING	W = WEST
E = EAST	LP = LOW POINT	ROW = RIGHT OF WAY	WM = WATER METER / WATER MAIN
EL = ELEVATION	LT = LEFT	RRFB = RECTANGULAR RAPID FLASH BEACON	WSDOT = WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
EOP, EP = EDGE OF PAVEMENT	MAX = MAXIMUM	RT = RIGHT	
EQUIV = EQUIVALENT	MIN = MINIMUM	S = SOUTH	
EVCE = END VERTICAL CURVE ELEVATION	MJ = MECHANICAL JOINT	SCH = SCHEDULE	
EVCS = END VERTICAL CURVE STATION	MOD = MODIFIED		
	MON = MONUMENT		



11/9/21 AS-BUILT

DESIGNED BY
OAM
DRAWN BY
LMH
CHECKED BY
LP

R&E Reichhardt & Ebe
ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDAL
2095 MAIN ST
FERNDAL, WA 98226

COMPLETE STREETS

LEGEND AND ABBREVIATIONS

DWG 19024 PLOT

JOB#

19024

SCALE

H: N/A

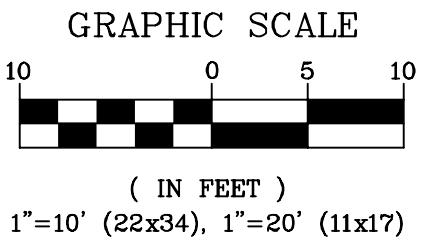
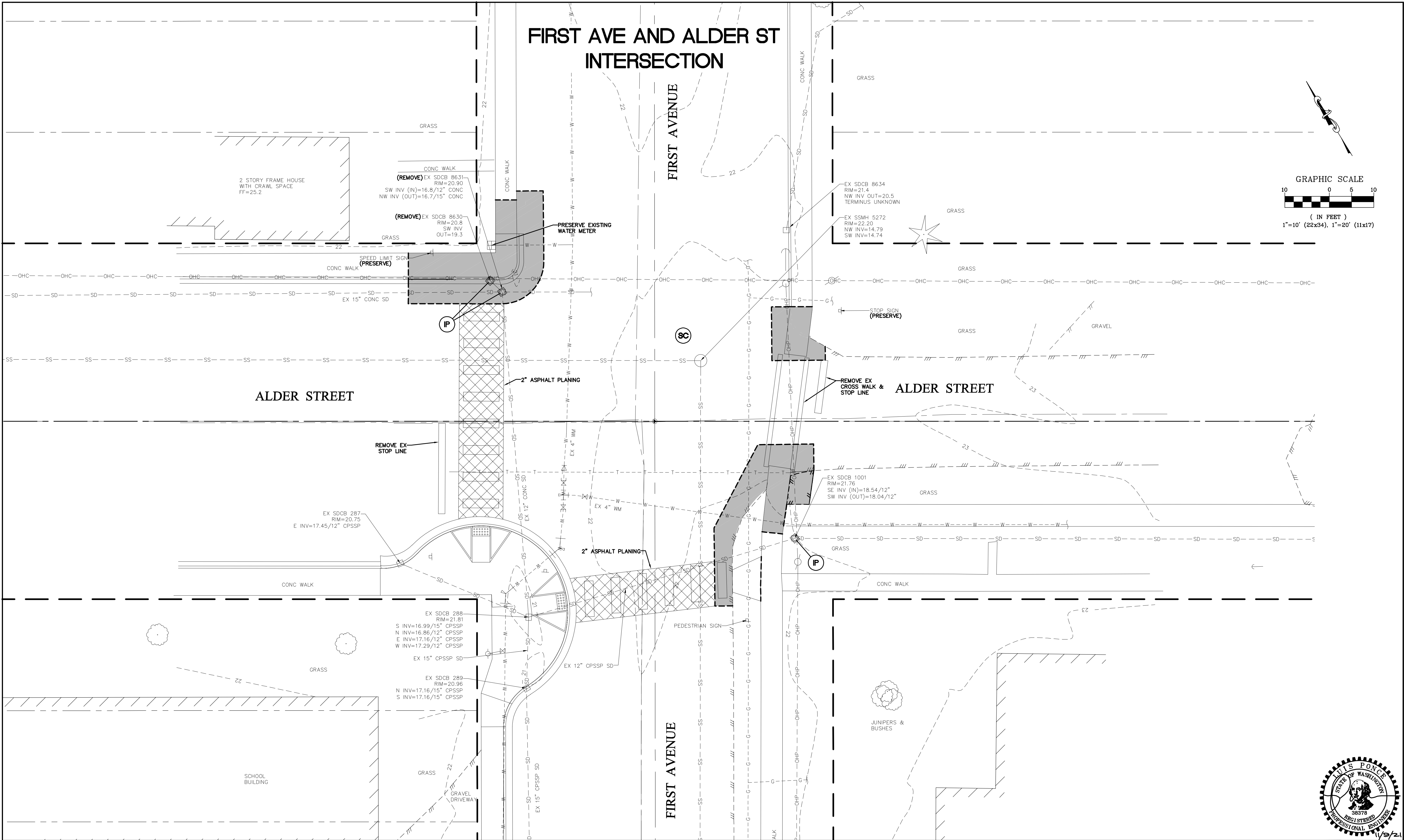
V: N/A

DATE

9/23/20

SHEET

2
of 23



11/9/21
AS-BUILT

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CITY OF FERNDAL
2095 MAIN ST
FERNDAL, WA 98226

COMPLETE STREETS

EX COND, DEMO AND TESC - 1ST AND ALDER

DWG 19024 PLOT

JOB#

19024

SCALE

H: 1"=10'

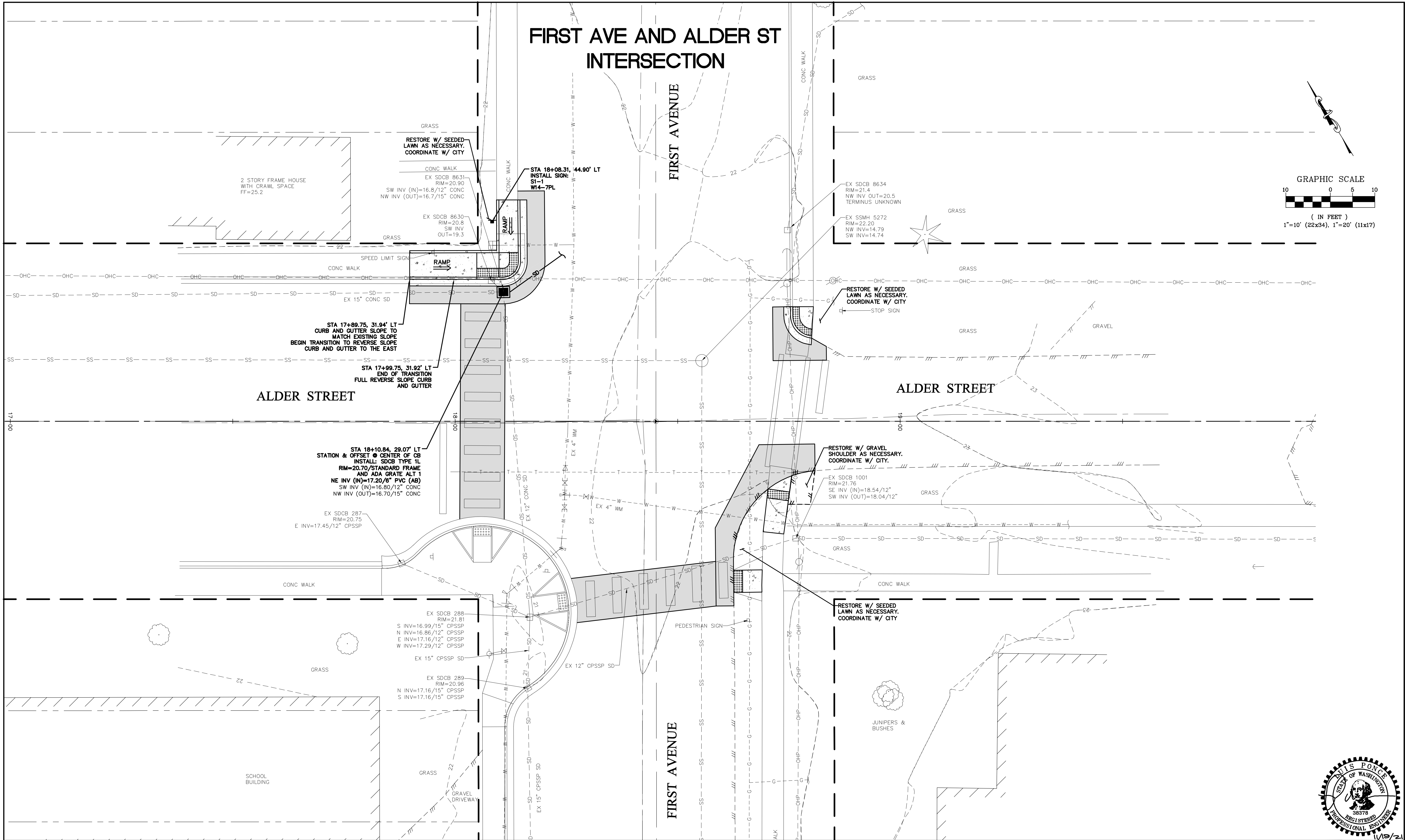
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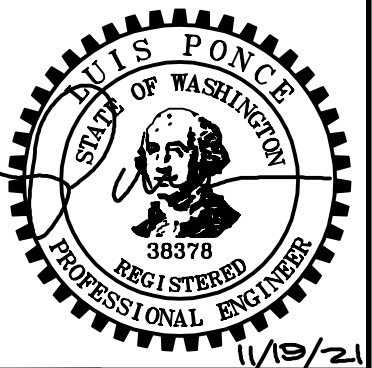
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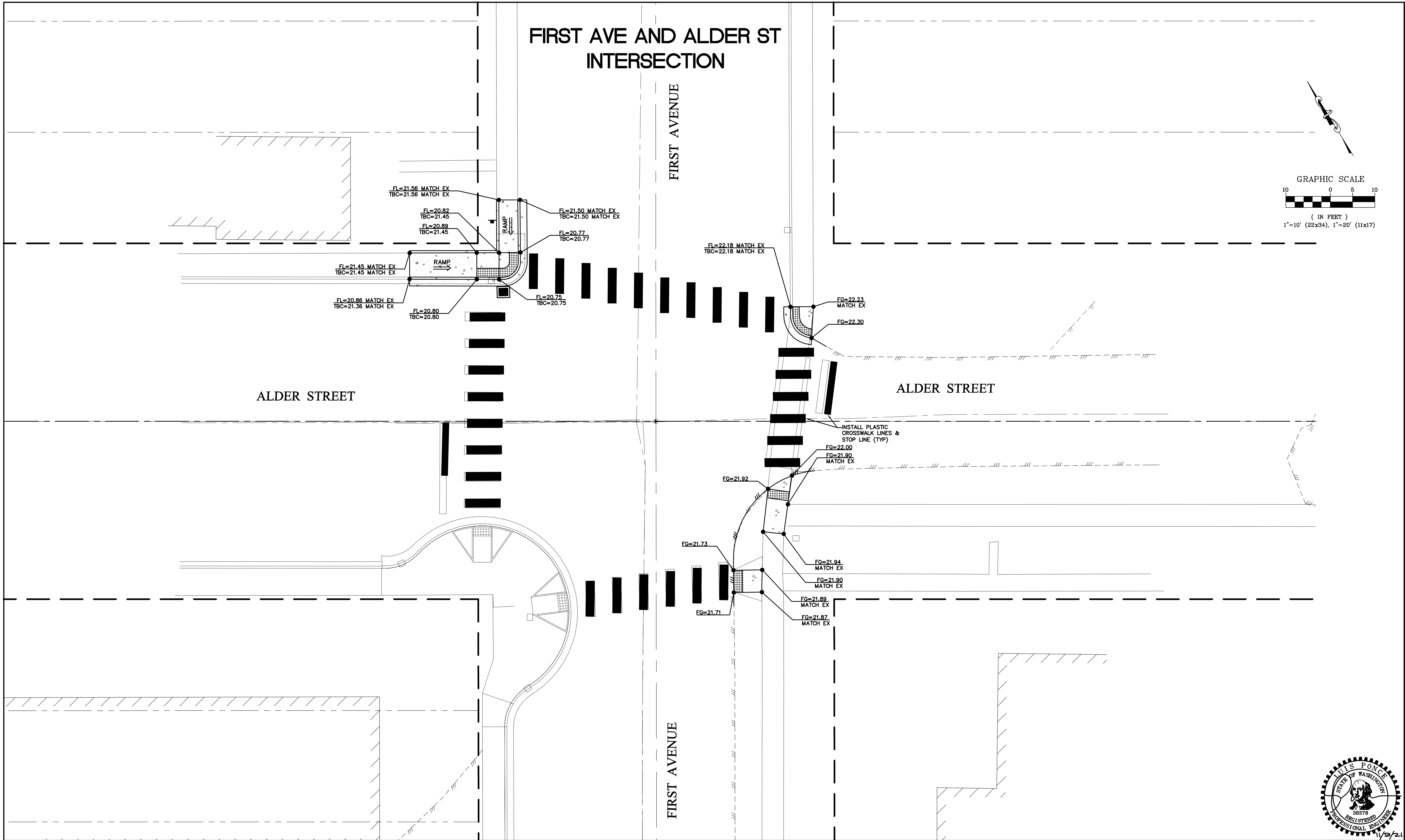
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of 23

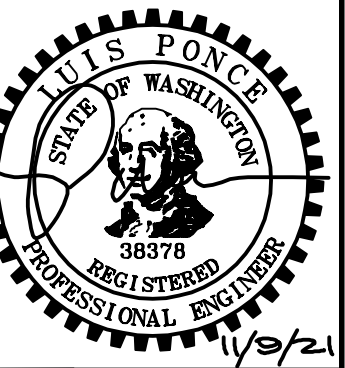


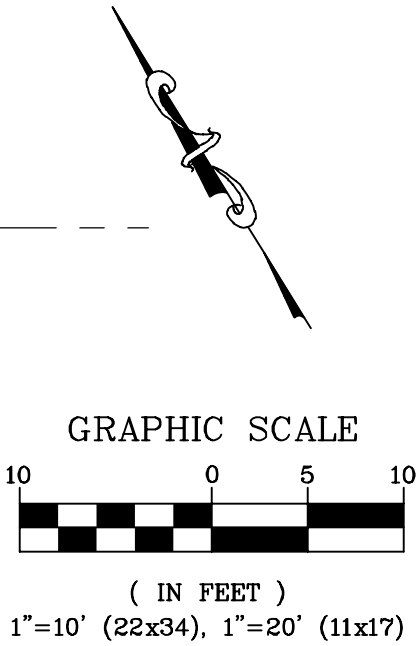
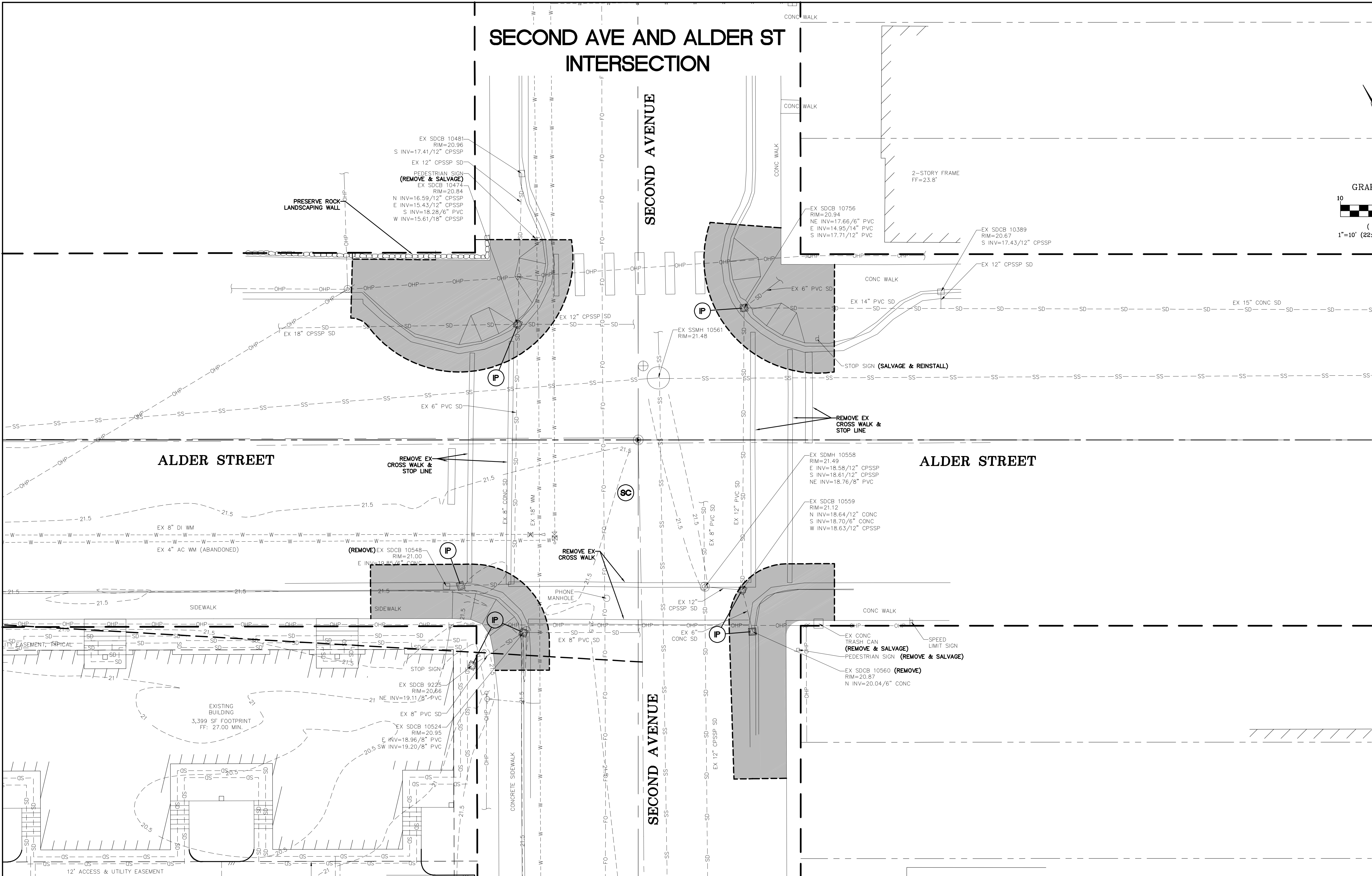
11/9/21 AS-BUILT	DESIGNED BY OAM	R&E Reichhardt & Ebe ENGINEERING INC P.O. Box 978 423 Front Street Lynden, WA 98264 (360) 354-3687					CITY OF FERNDAL 2095 MAIN ST FERNDAL, WA 98226	COMPLETE STREETS PLAN - 1ST AND ALDER	DWG 19024 PLOT		DATE 9/23/20
	DRAWN BY LMH								JOB# 19024	SCALE H: 1"=10' V: N/A	SHEET 4 of 23
	CHECKED BY LP										
			NO.	DATE	DESCRIPTION	BY					



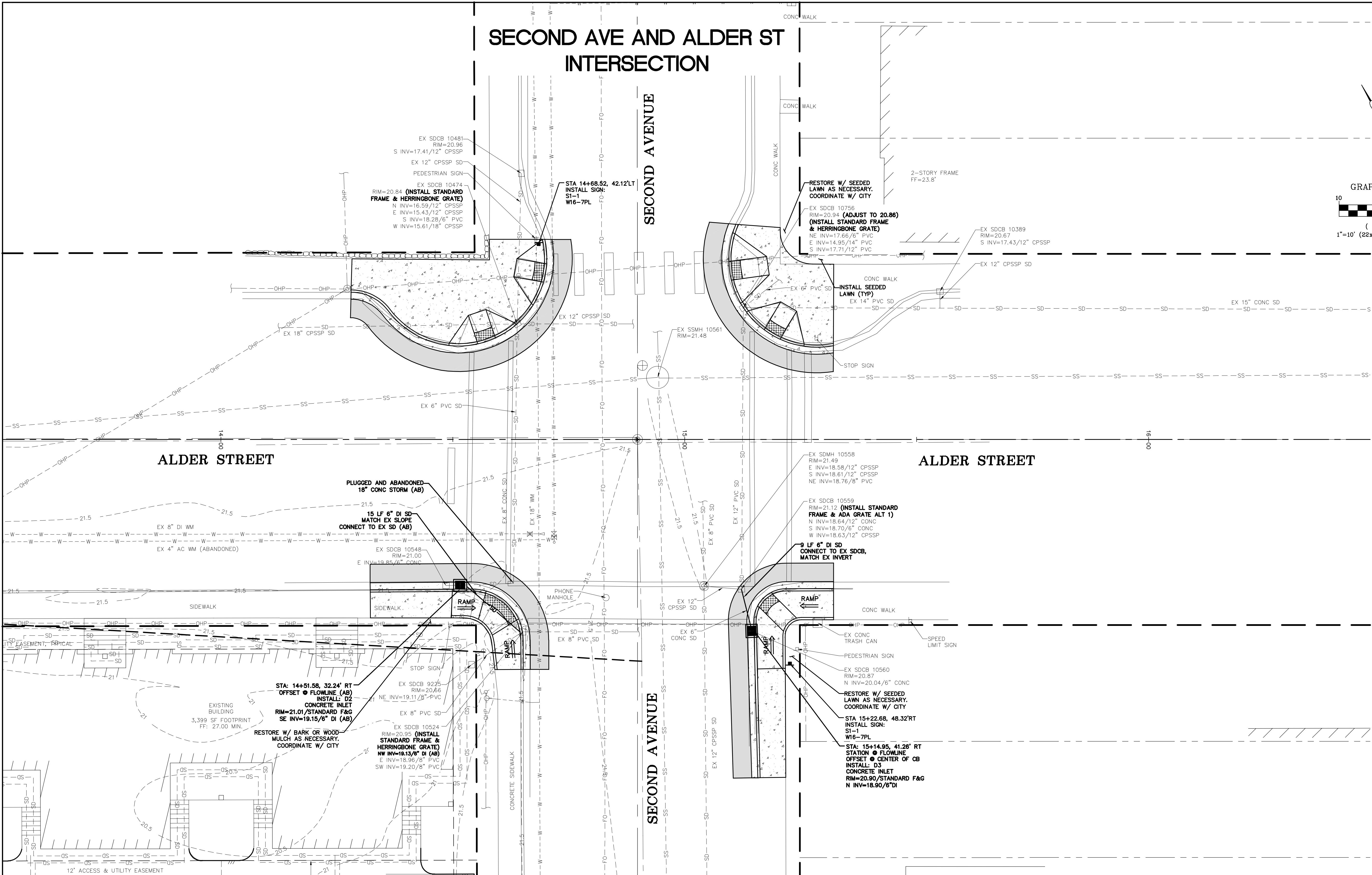


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	OAM								9/23/20		
	DRAWN BY								JOB#	SCALE	SHEET
	LMH								19024	H: 1"=10' v: N/A	5
CHECKED BY	LP		NO.	DATE	DESCRIPTION	BY					of 23





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	DRAWN BY LMH								JOB# 19024	SCALE H: 1"=10' v: N/A	SHEET 6 of 23
	CHECKED BY LP		NO.	DATE	DESCRIPTION	BY					



11/9/21
AS-BUILT

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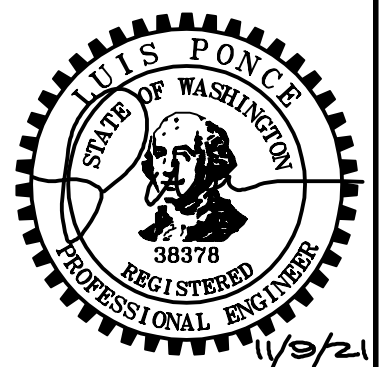
R&E Reichhardt & Ebe
ENGINEERING INC
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NO.	DATE	DESCRIPTION	BY

CITY OF FERNDAL
2095 MAIN ST
FERNDAL, WA 98226

COMPLETE STREETS
PLAN - 2ND AND ALDER

DWG 19024 PLOT	DATE 9/23/20
JOB# 19024	SCALE H: 1"=10' v: N/A
SHEET 7 of 23	



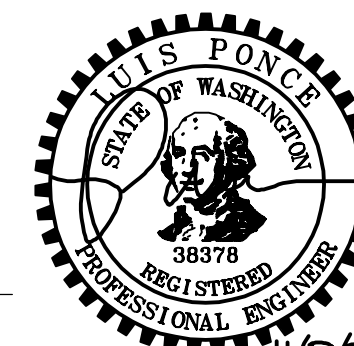
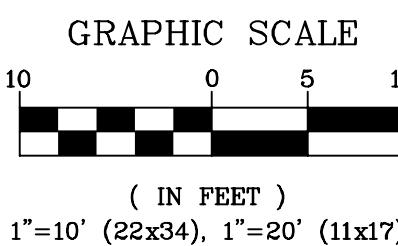
SECOND AVE AND ALDER ST INTERSECTION

SECOND AVENUE

SECOND AVENUE

ALDER STREET

ALDER STREET



11/9/21 AS-BUILT

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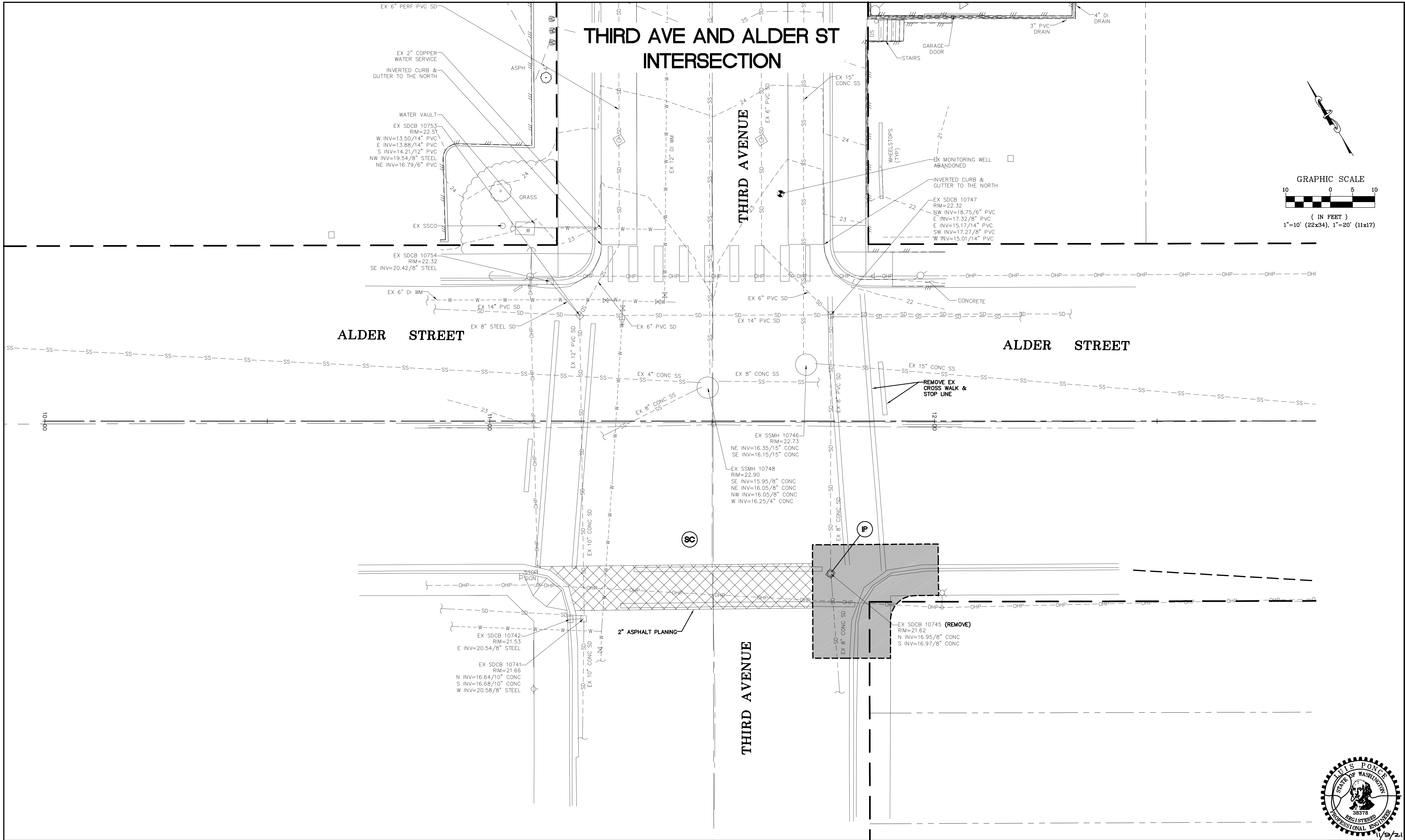
CITY OF FERNDAL
2095 MAIN ST
FERNDAL, WA 98226

COMPLETE STREETS
GRADING AND CHANNELIZATION - 2ND AND ALDER

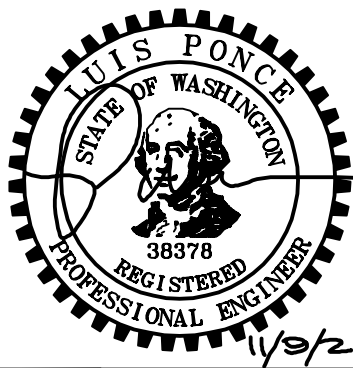
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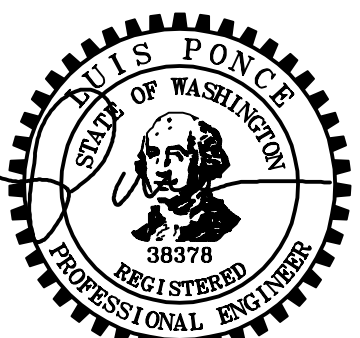
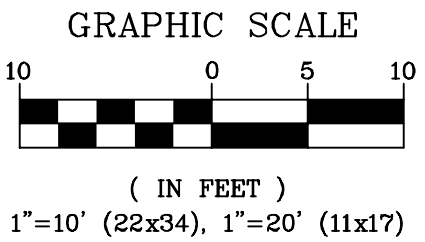
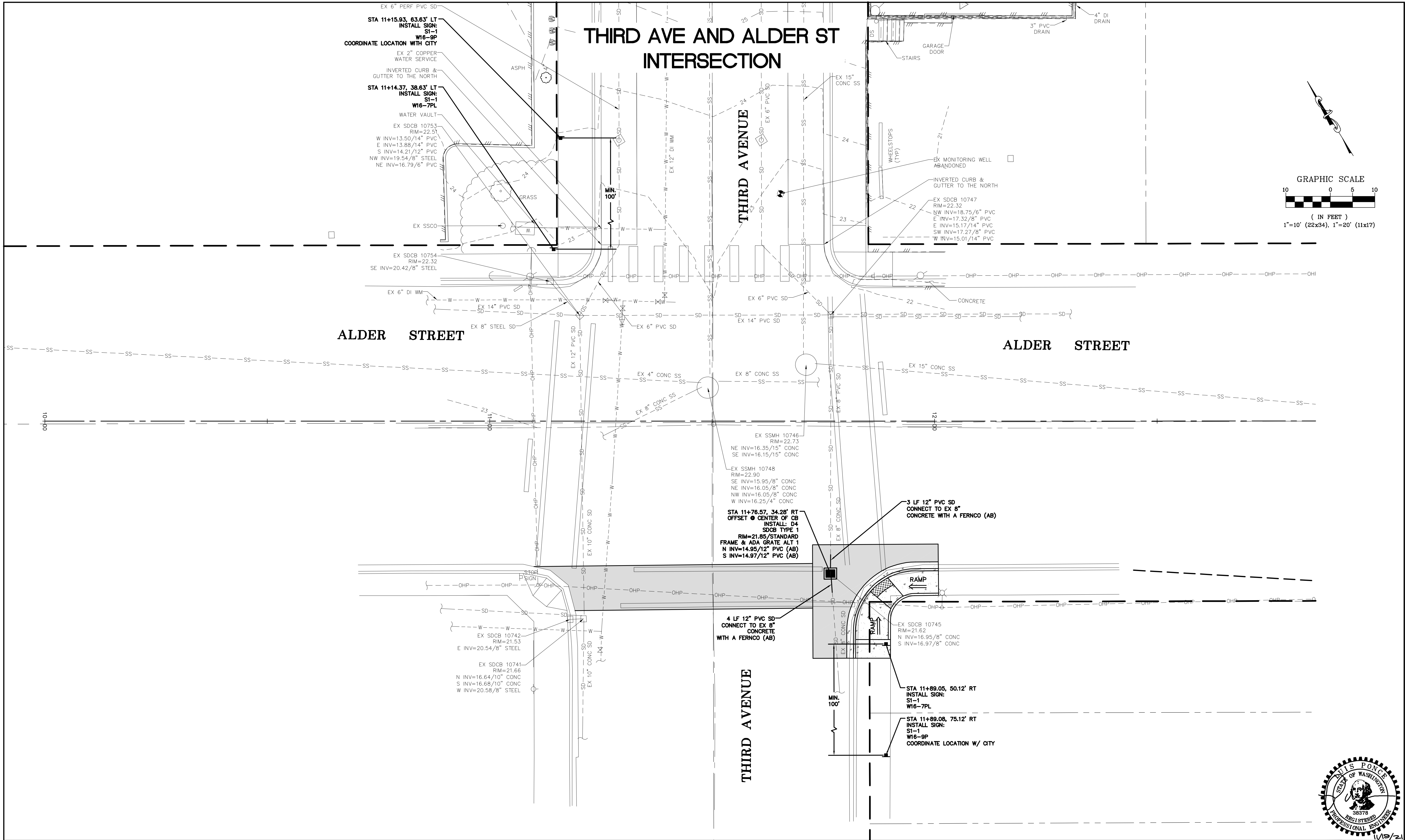
SCALE
H: 1"=10' V: N/A

DATE
9/23/20
SHEET
8 of 23



11/9/21 AS-BUILT	DESIGNED BY OAM	R&E Reichhardt & Ebe ENGINEERING INC P.O. Box 978 423 Front Street Lynden, WA 98264 (360) 354-3687						CITY OF FERNDAL 2095 MAIN ST FERNDAL, WA 98226	COMPLETE STREETS EX COND, DEMO AND TESC - 3RD AND ALDER	DWG 19024 PLOT		DATE 9/23/20	
	DRAWN BY LMH										JOB# 19024	SCALE H: 1"=10' V: N/A	SHEET 9 of 23
	CHECKED BY LP												
					NO.	DATE	DESCRIPTION			BY			





11/9/21
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NO.	DATE	DESCRIPTION	BY

CITY OF FERNDAL
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FERNDAL, WA 98226

COMPLETE STREETS

PLAN - 3RD AND ALDER

DWG 19024 PLOT

JOB#

19024

SCALE

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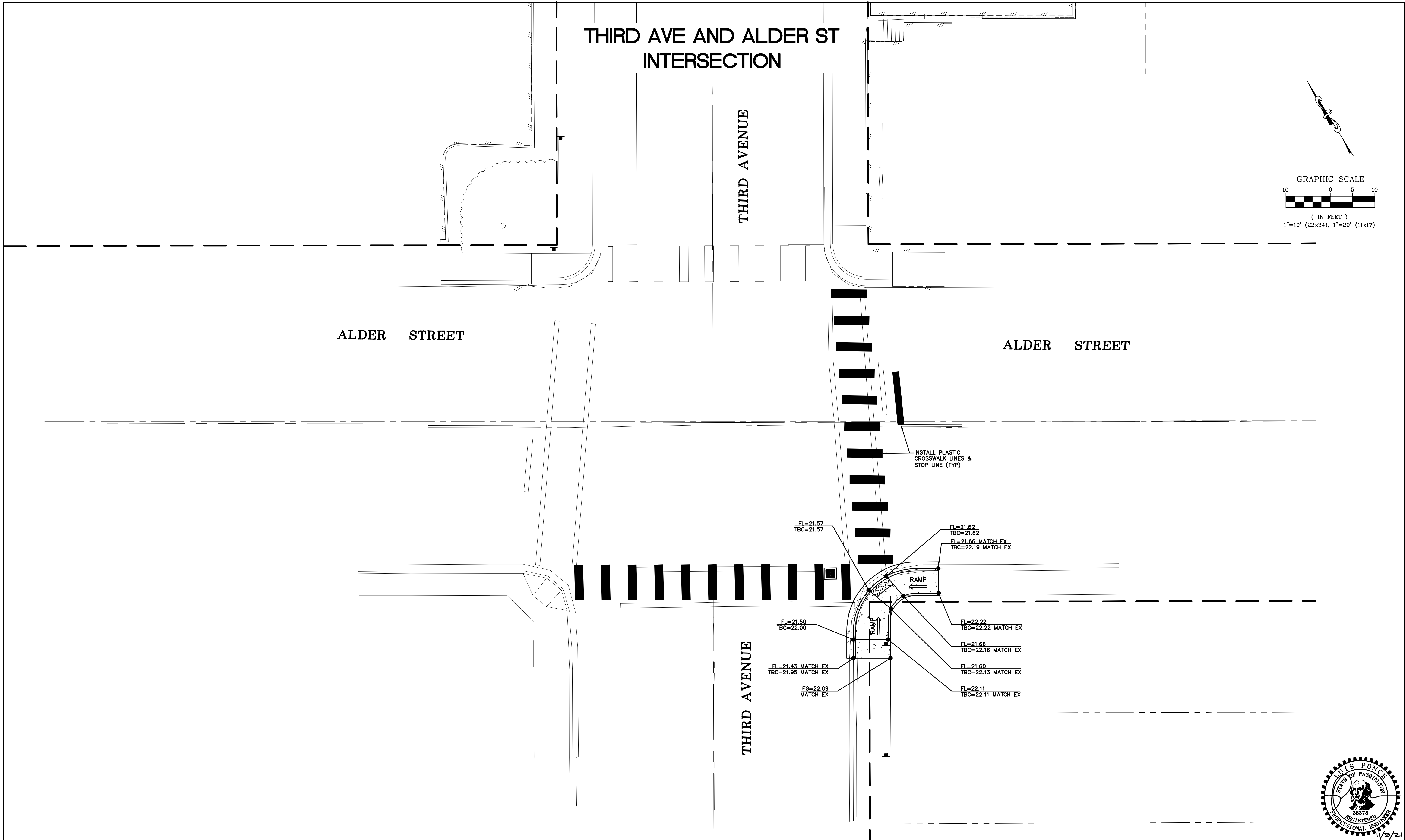
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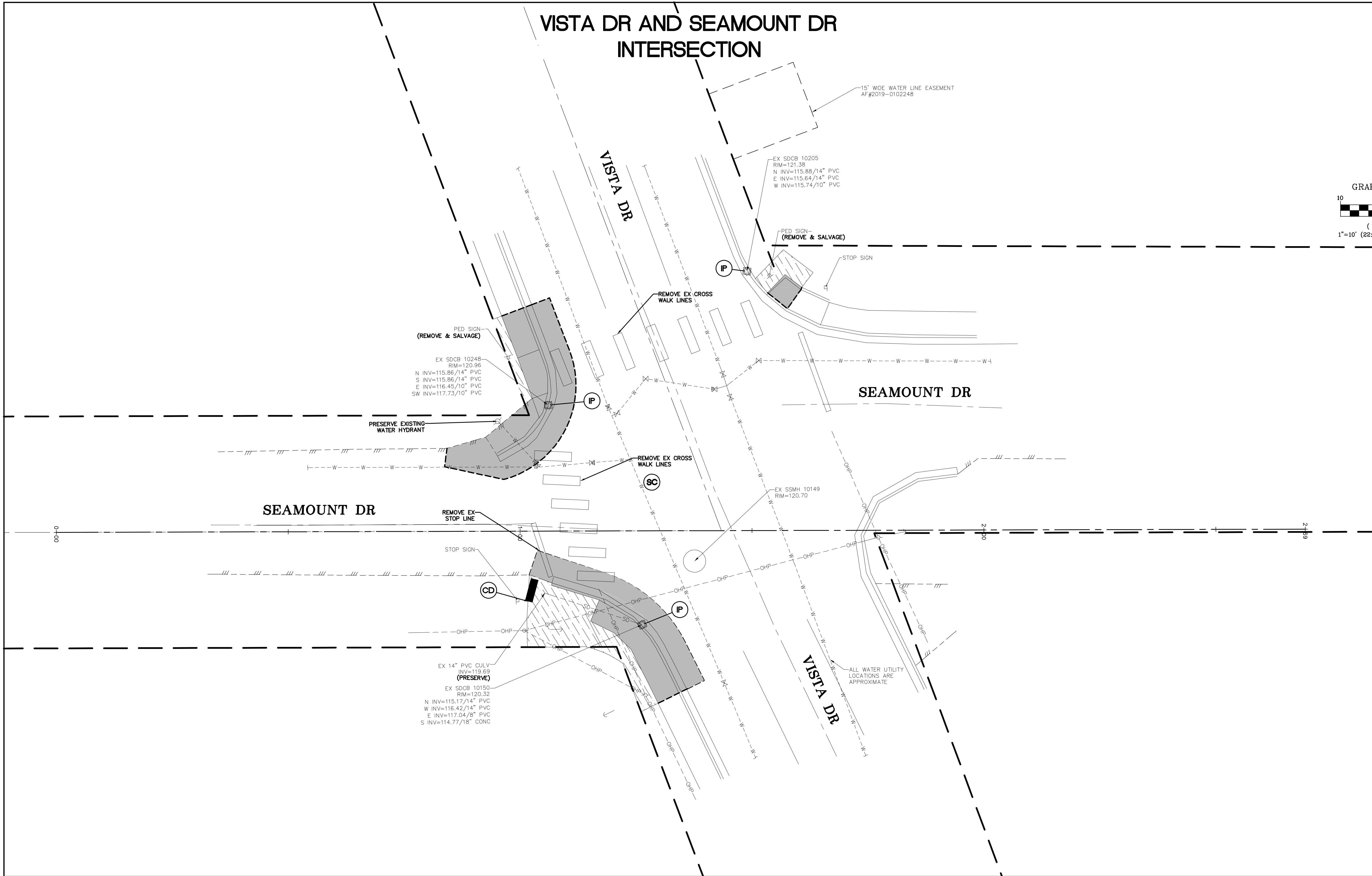
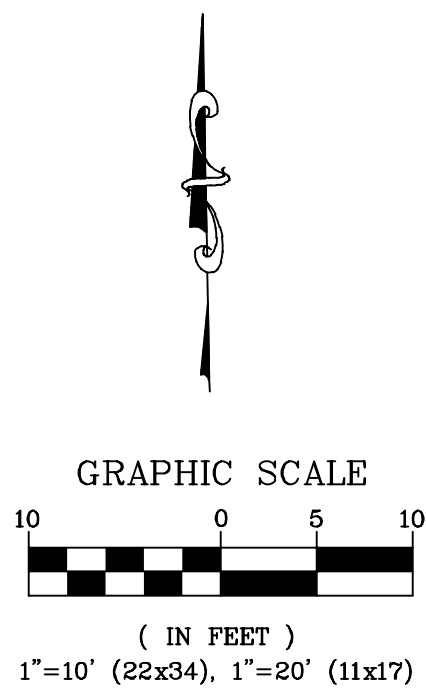
SHEET

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of 23



11/9/21	AS-BUILT	DESIGNED BY OAM	 Reichhardt & Ebe ENGINEERING INC P.O. Box 978 423 Front Street Lynden, WA 98264 (360) 354-3687	NO.	DATE	DESCRIPTION	BY	CITY OF FERNDALE 2095 MAIN ST FERNDALE, WA 98226	COMPLETE STREETS GRADING AND CHANNELIZATION - 3RD AND ALDER	DWG 19024 PLOT		DATE 9/23/20	
		DRAWN BY LMH								JOB#	SCALE	SHEET 11 of 23	
		CHECKED BY LP								19024	H: 1"=10' V: N/A		

VISTA DR AND SEAMOUNT DR
INTERSECTION



11/9/21
AS-BUILT

DESIGNED BY
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LMH
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COMPLETE STREETS

EX COND, DEMO AND TESC - VISTA AND SEAMOUNT

DWG 19024 PLOT

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V: N/A

DATE

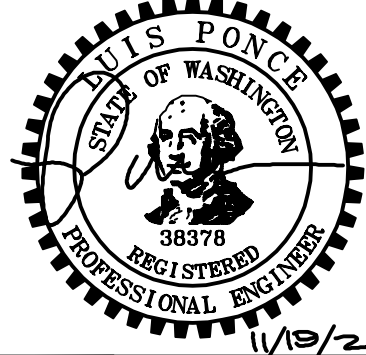
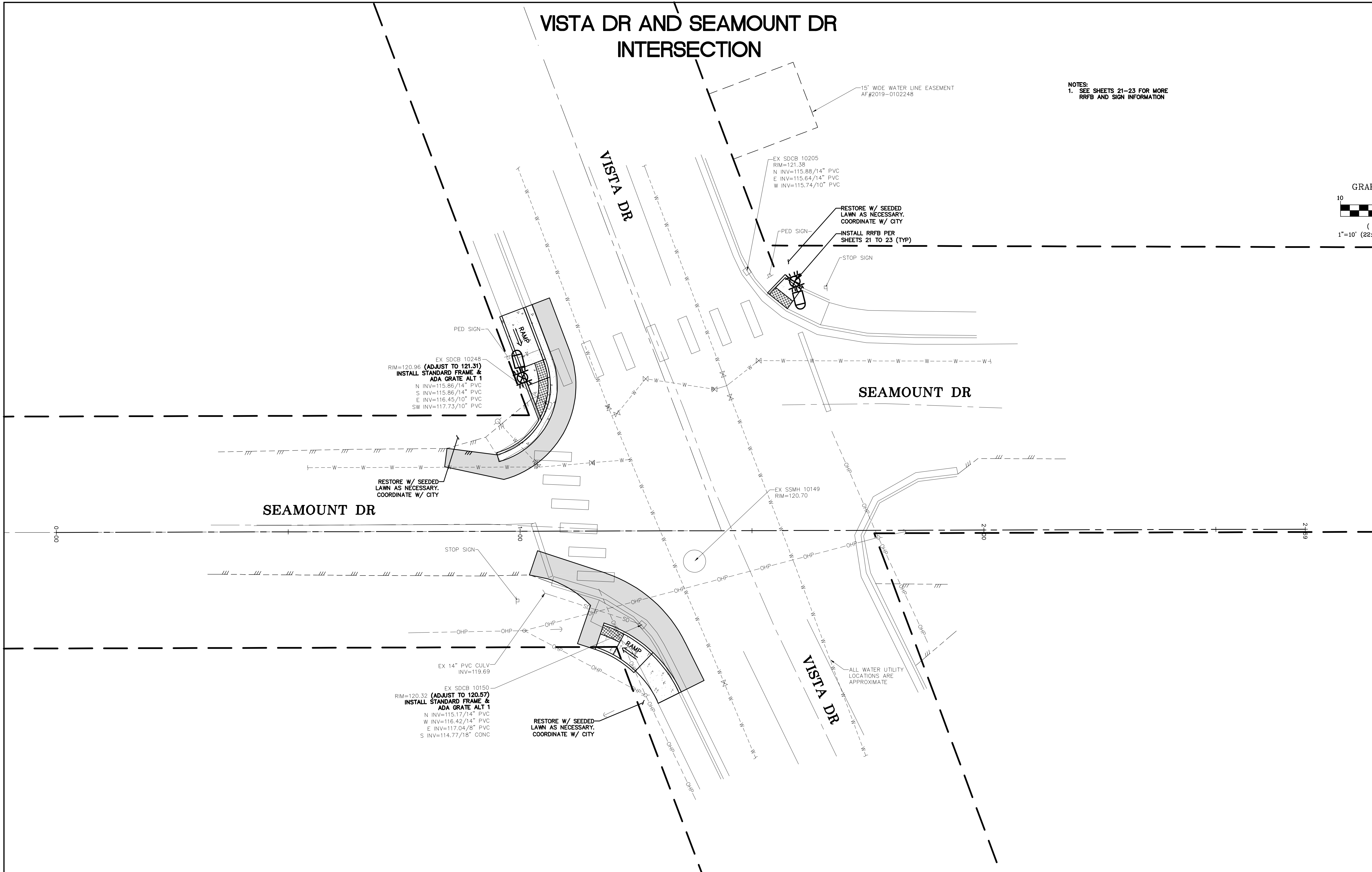
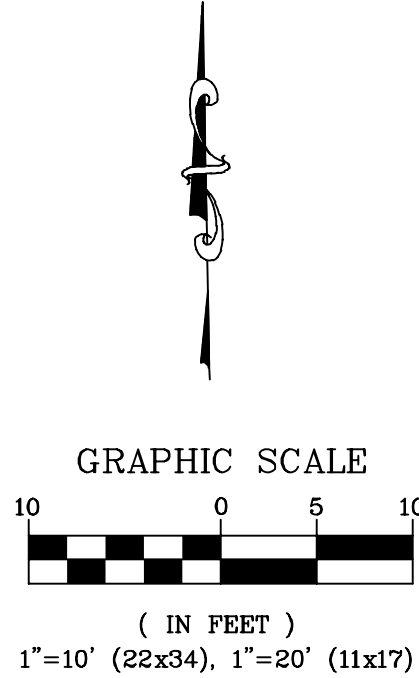
9/23/20

SHEET

12
of 23

VISTA DR AND SEAMOUNT DR
INTERSECTION

NOTES:
1. SEE SHEETS 21-23 FOR MORE
RRFB AND SIGN INFORMATION



11/9/21
AS-BUILT

DESIGNED BY
OAM
DRAWN BY
LMH
CHECKED BY
LP

R&E Reichhardt & Ebe
ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

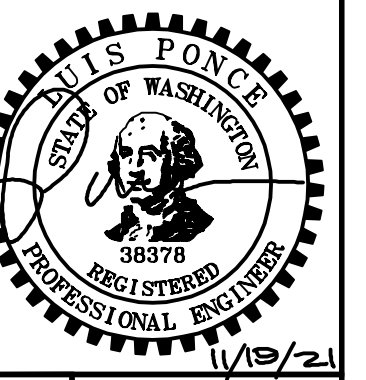
CITY OF FERNDAL
2095 MAIN ST
FERNDAL, WA 98226

COMPLETE STREETS
PLAN - VISTA AND SEAMOUNT

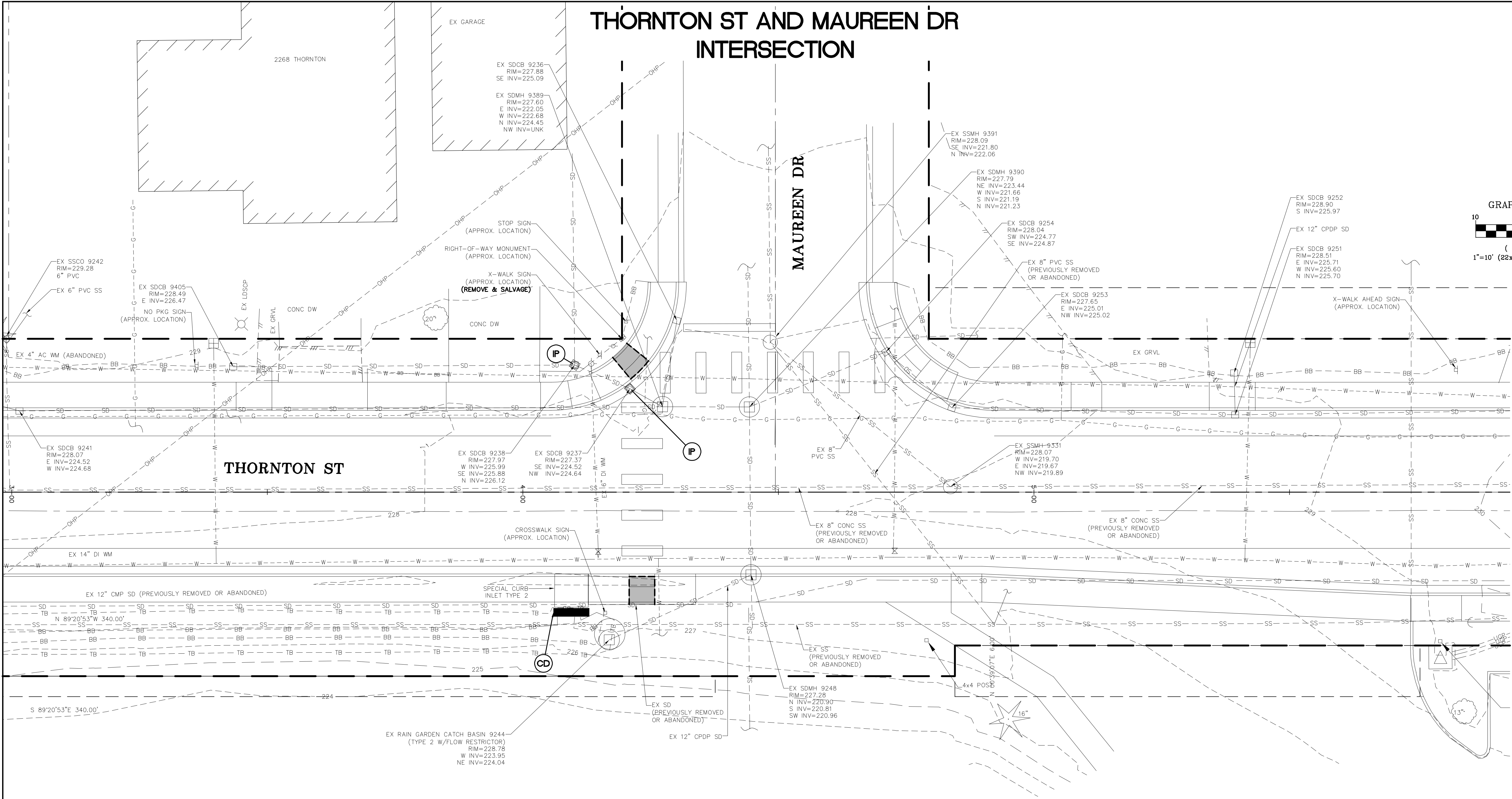
DWG 19024 PLOT	DATE 9/23/20
JOB# 19024	SCALE H: 1"=10' v: N/A
SHEET 13 of 23	

VISTA DR

VISTA DR



P:\Projects\19024\Civil 3D 2015\19024 PLOT.dwg, 14 GRADING AND CHANNELIZATION - VISTA AND SEAMOUNT, 1/31/2022 9:02:15 AM, PDF-XChange Standard



11/9/21
AS-BUILT

DESIGNED BY
OAM
DRAWN BY
LMH
CHECKED BY
LP

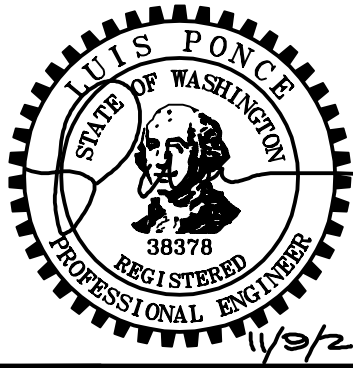
R&E Reichhardt & Ebe
ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDAL
2095 MAIN ST
FERNDAL, WA 98226

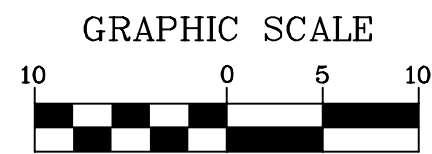
COMPLETE STREETS
EX COND, DEMO AND TESC - THORNTON AND MAUREEN

DWG #	19024	SCALE	H: 1"=10' v: N/A
JOB #	19024	DATE	9/23/20
SHEET	15	of 23	



INTERSECTION

NOTES:
1. SEE SHEETS 21-23 FOR MORE
RFB AND SIGN INFORMATION



(IN FEET)

1"=10' (22x34), 1"=20' (11x17)



INSTALL RRFB PER
SHEETS 21 TO 23
(TYP)

INSTALL SE

PREVIOUSLY REMOVED
OR ABANDONED —

EX RAIN GARDEN CATCH BASIN 9244
(TYPE 2 W/FLOW RESTRICTOR)

PLAN - THORNTON AND MAUREEN

JOB #

 $v: N/A$

SHEET 10

of 23



11/9/21

DESIGNED BY

OAM
BRAND RM

DRAWN BY
LMH

CHECKED BY _____

R&E

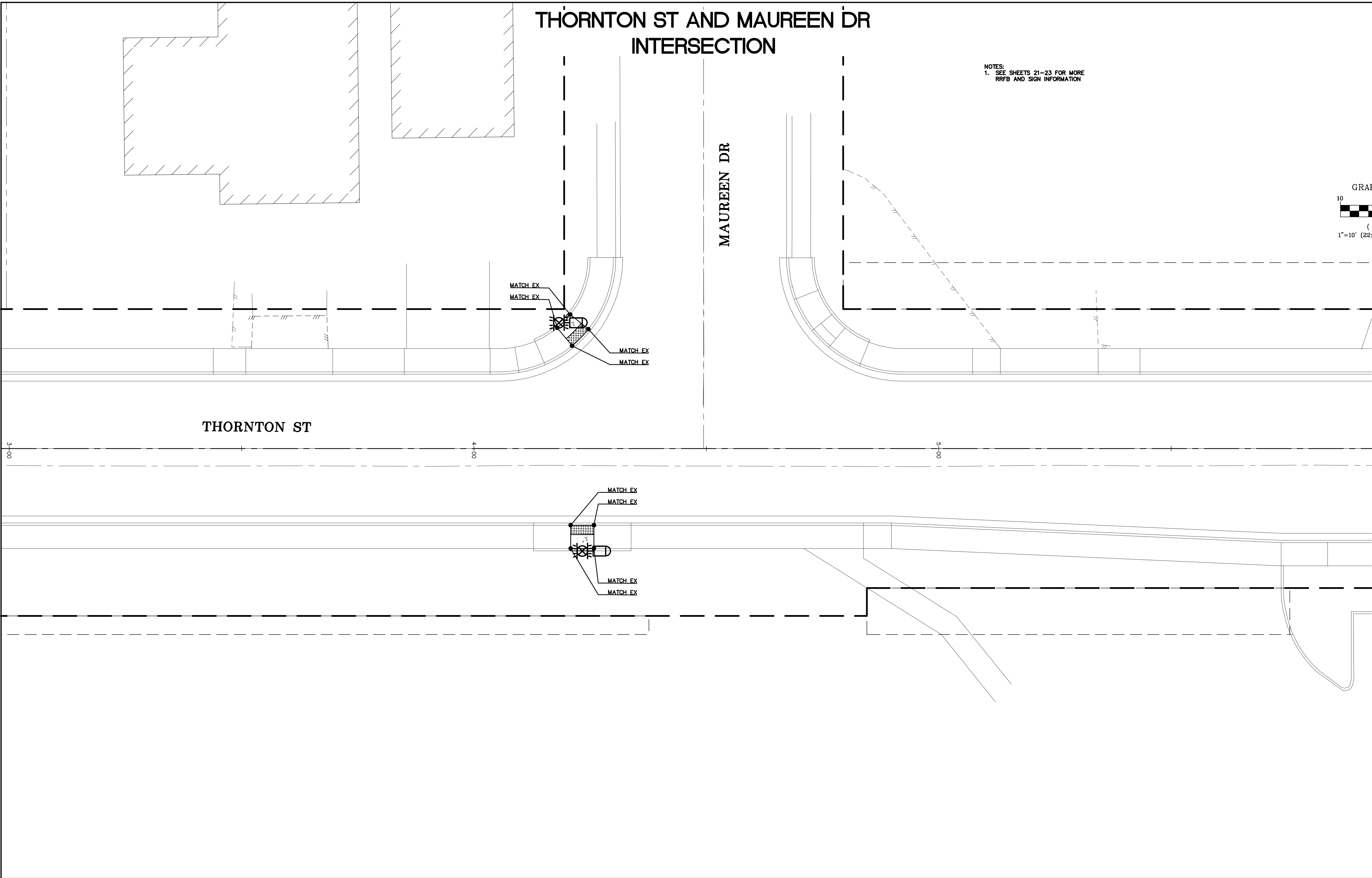
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION
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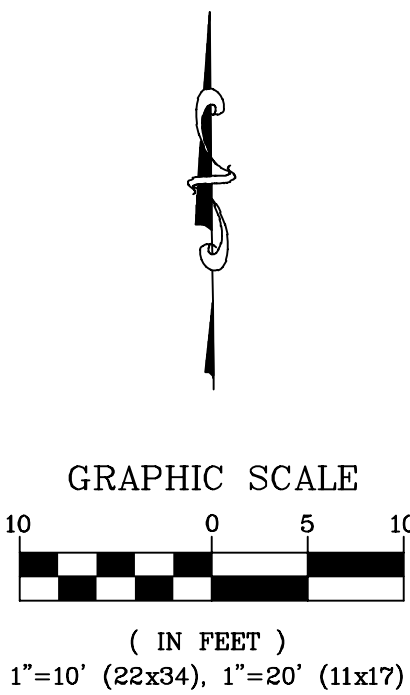
CITY OF FERNDALE

2095 MAIN ST

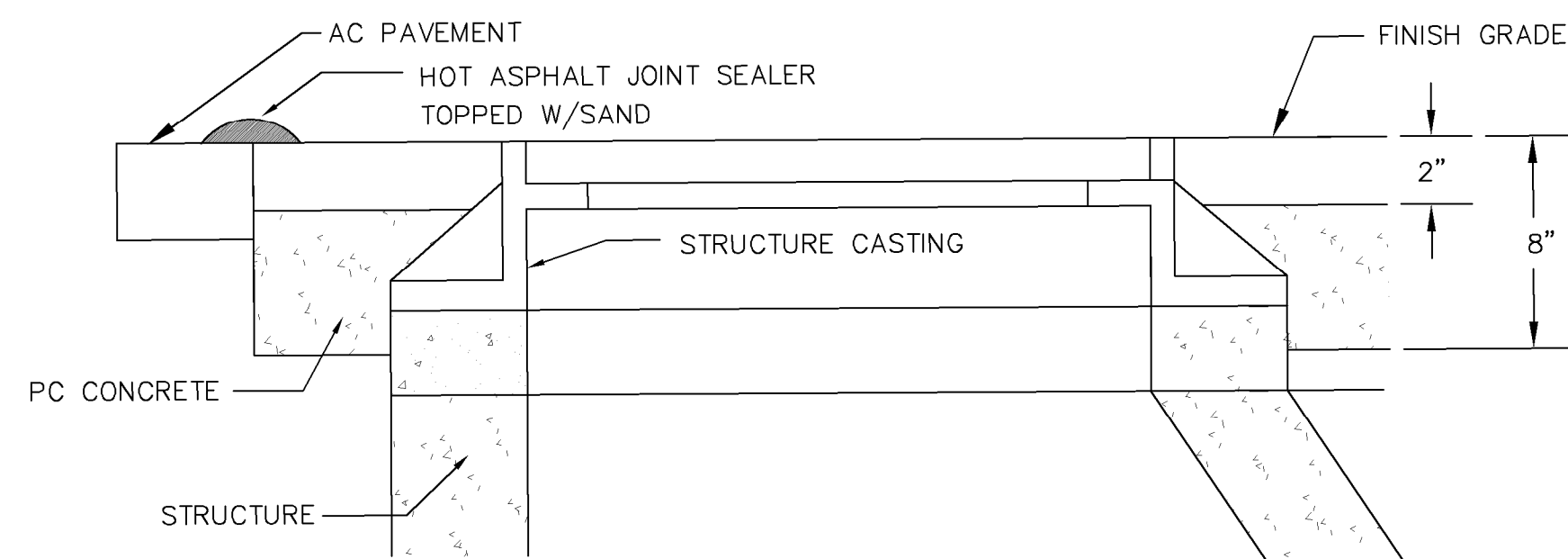
FERNDALE, WA 98226



NOTES:
1. SEE SHEETS 21-23 FOR MORE
RRFB AND SIGN INFORMATION

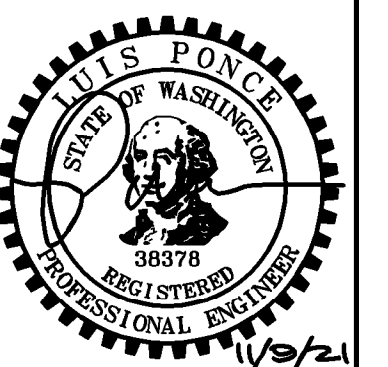


11/9/21	AS-BUILT	DESIGNED BY OAM	 Reichhardt & Ebe ENGINEERING INC P.O. Box 978 423 Front Street Lynden, WA 98264 (360) 354-3687	NO.	DATE	DESCRIPTION	BY	CITY OF FERNDAL 2095 MAIN ST FERNDAL, WA 98226	COMPLETE STREETS GRADING AND CHANNELIZATION - THORNTON AND MAUREEN	DWG 19024 PLOT		DATE 9/23/20
		DRAWN BY LMH								JOB# 19024	SCALE H: 1"=10' V: N/A	SHEET 17 of 23



1. CUT THE ASPHALT IN A DIAMOND AROUND THE STRUCTURE CASTING TO BE ADJUSTED.
2. REMOVE THE FILL MATERIAL WITHIN THE CUT PAVEMENT AREA TO 8 INCHES MIN. BELOW FINISH GRADE.
3. PLACE THE CASTING AT FINISH GRADE.
4. PLACE PORTLAND CEMENT CONCRETE TO WITHIN THE TOP 2 INCHES OF FINISH GRADE.
5. APPLY TACK TO THE STRUCTURE CASTING, CUT PAVEMENT, AND PC CONCRETE.
6. PLACE AND COMPACT 2 INCHES OF COMMERCIAL HMA TO FINISH GRADE.
7. SEAL PAVEMENT JOINTS WITH HOT ASPHALT JOINT SEALER AND TOP WITH SAND.

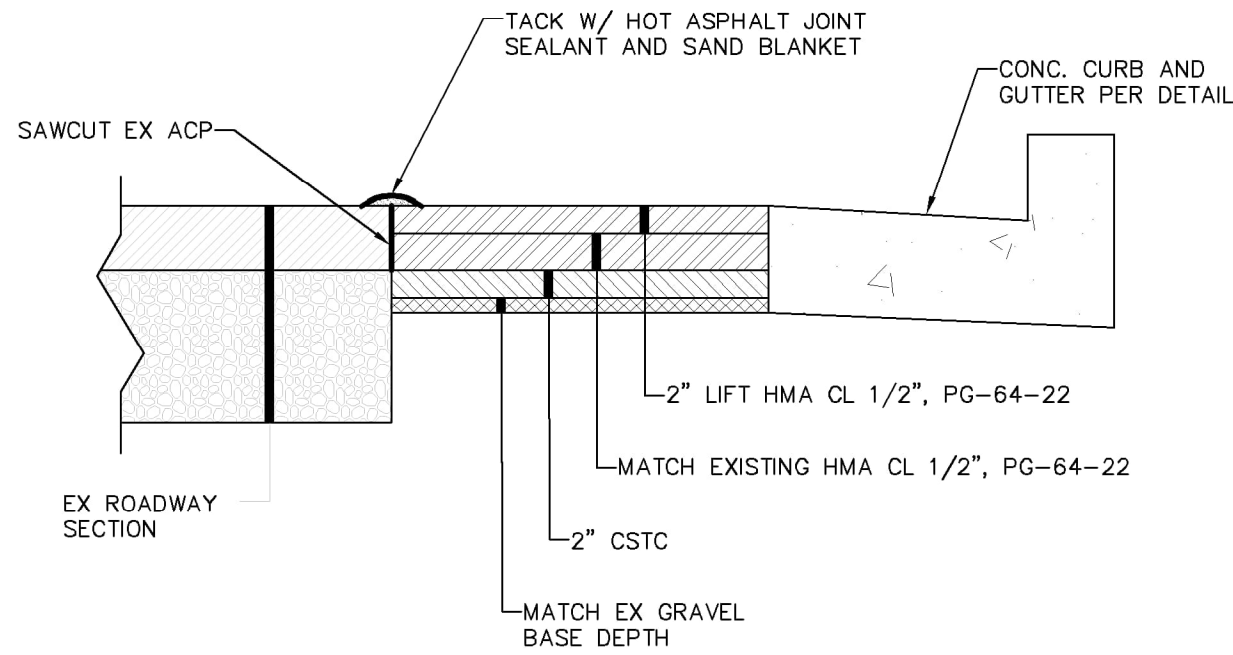
NTS



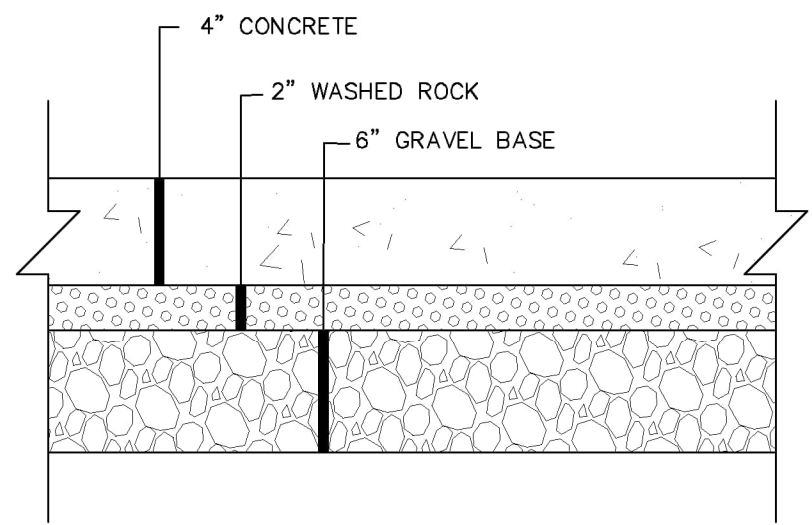
9/21

NO.	DATE	DESCRIPTION	BY

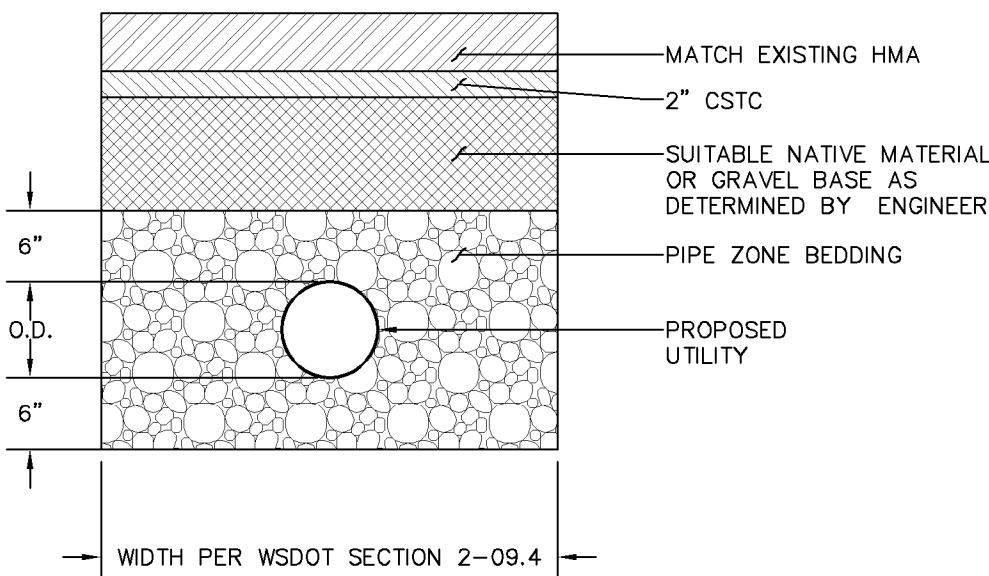
16
of 23



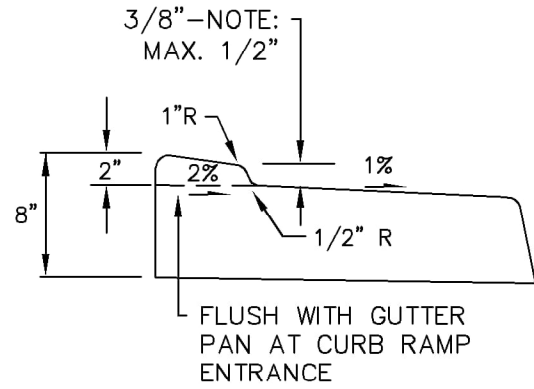
**ROADWAY PAVEMENT
MATCH SECTION**
NTS



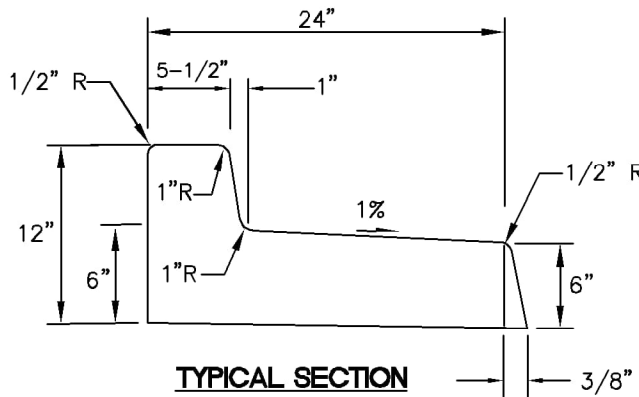
TYPICAL SIDEWALK SECTION DETAIL
NTS



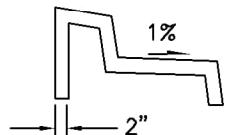
UTILITY TRENCH DETAIL
NTS



CURB RAMP/DRIVEWAY SECTION



TYPICAL SECTION

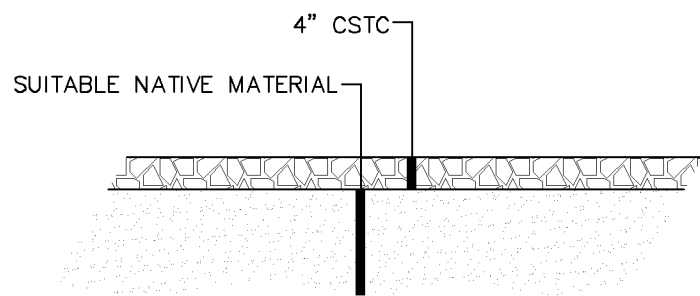


CONTRACT JOINTS

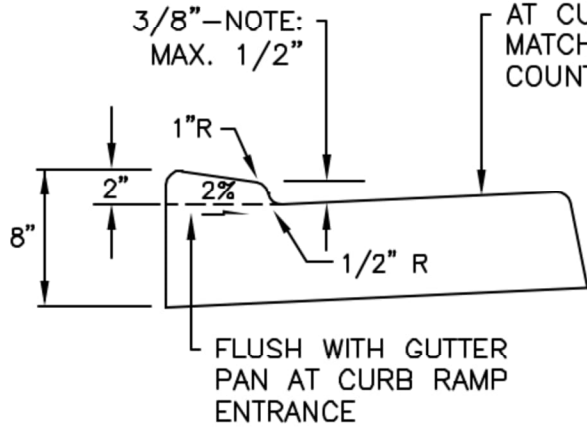
GENERAL NOTES

- CONTRACTION JOINTS OF ONE OF THE TYPES SHOWN ABOVE TO BE PLACED 10'C/C. JOINTS MUST COMPLETELY SEVER THE STRUCTURE TO THE POINTS SHOWN. JOINTS MAY BE MADE BY INSERTING MINIMUM 3/16" BITUMINOUS FILLER DUMMY JOINTS. JOINTS SHALL BE CLEANED AND EDGED.
- 2" WEEP HOLES TO BE PLACED ON EACH SIDE OF DRIVEWAY SECTION & A MAXIMUM 60' C/C IN CUT SECTIONS WHERE SIDEWALK DRAIN NOT REQUIRED BY PUBLIC WORKS DIRECTOR.
- 3/8" EXPANSION JOINTS TO BE PLACED AT DRIVEWAY SECTIONS, CURB RETURNS, CURB RAMPS, & COLD JOINTS OR A MAXIMUM OF 80' C/C. EXPANSION JOINTS SHALL PROTRUDE 1" BELOW THE BOTTOM OF GUTTER.
- CONCRETE SHALL BE CEMENT CONCRETE "CLASS 3000".
- FINISHED WORK SHALL NOT VARY MORE THAN 1/8" IN GRADE AND 1/4" IN ALIGNMENT WHEN CHECKED WITH A 10" STRAIGHT EDGE.
- EXPOSED SURFACES SHALL BE BRUSHED WITH A FIBER HAIR BRUSH.
- WHITE PIGMENTED OR TRANSPARENT CURING COMPOUND SHALL BE APPLIED AS OUTLINED IN THE STANDARD SPECIFICATIONS.
- FURTHER REQUIREMENTS SHALL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS.

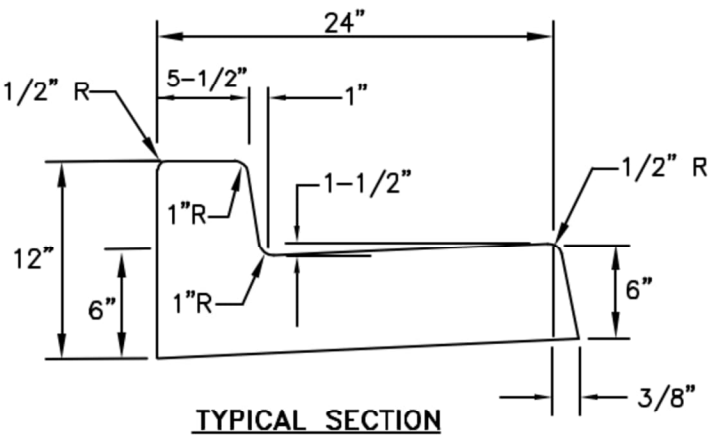
**CURB AND GUTTER INSTALLATION
REVERSE SLOPE**
NTS



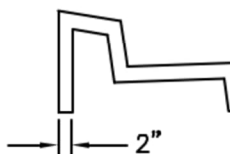
GRAVEL SHOULDER DETAIL
NTS



CURB RAMP/DRIVEWAY SECTION



TYPICAL SECTION



CONTRACT JOINTS

GENERAL NOTES

- CONTRACTION JOINTS OF ONE OF THE TYPES SHOWN ABOVE TO BE PLACED 10'C/C. JOINTS MUST COMPLETELY SEVER THE STRUCTURE TO THE POINTS SHOWN. JOINTS MAY BE MADE BY INSERTING MINIMUM 3/16" BITUMINOUS FILLER DUMMY JOINTS. JOINTS SHALL BE CLEANED AND EDGED.
- 2" WEEP HOLES TO BE PLACED ON EACH SIDE OF DRIVEWAY SECTION & A MAXIMUM 60' C/C IN CUT SECTIONS WHERE SIDEWALK DRAIN NOT REQUIRED BY PUBLIC WORKS DIRECTOR.
- 3/8" EXPANSION JOINTS TO BE PLACED AT DRIVEWAY SECTIONS, CURB RETURNS, CURB RAMPS, & COLD JOINTS OR A MAXIMUM OF 80' C/C. EXPANSION JOINTS SHALL PROTRUDE 1" BELOW THE BOTTOM OF GUTTER.
- CONCRETE SHALL BE CEMENT CONCRETE "CLASS 3000".
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- EXPOSED SURFACES SHALL BE BRUSHED WITH A FIBER HAIR BRUSH.
- WHITE PIGMENTED OR TRANSPARENT CURING COMPOUND SHALL BE APPLIED AS OUTLINED IN THE STANDARD SPECIFICATIONS.
- FURTHER REQUIREMENTS SHALL BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS.

NOVEMBER 25, 2016



APPROVED

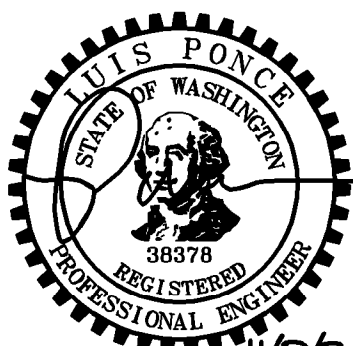
Public Works Director

8/11/17

Date

CURB AND GUTTER
INSTALLATION

STANDARD DETAIL R-9
NOT TO SCALE



11/9/21

11/9/21
AS-BUILT

DESIGNED BY
OAM
DRAWN BY
LMH
CHECKED BY
LP

R&E Reichhardt & Ebe
ENGINEERING INC
P.O. Box 978 | 423 Front Street
Lynden, WA 98264 (360) 354-3687

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDAL
2095 MAIN ST
FERNDAL, WA 98226

COMPLETE STREETS

ROAD DETAILS

DWG 19024 DETAILS
JOB# 19024

SCALE
H: N/A V: N/A

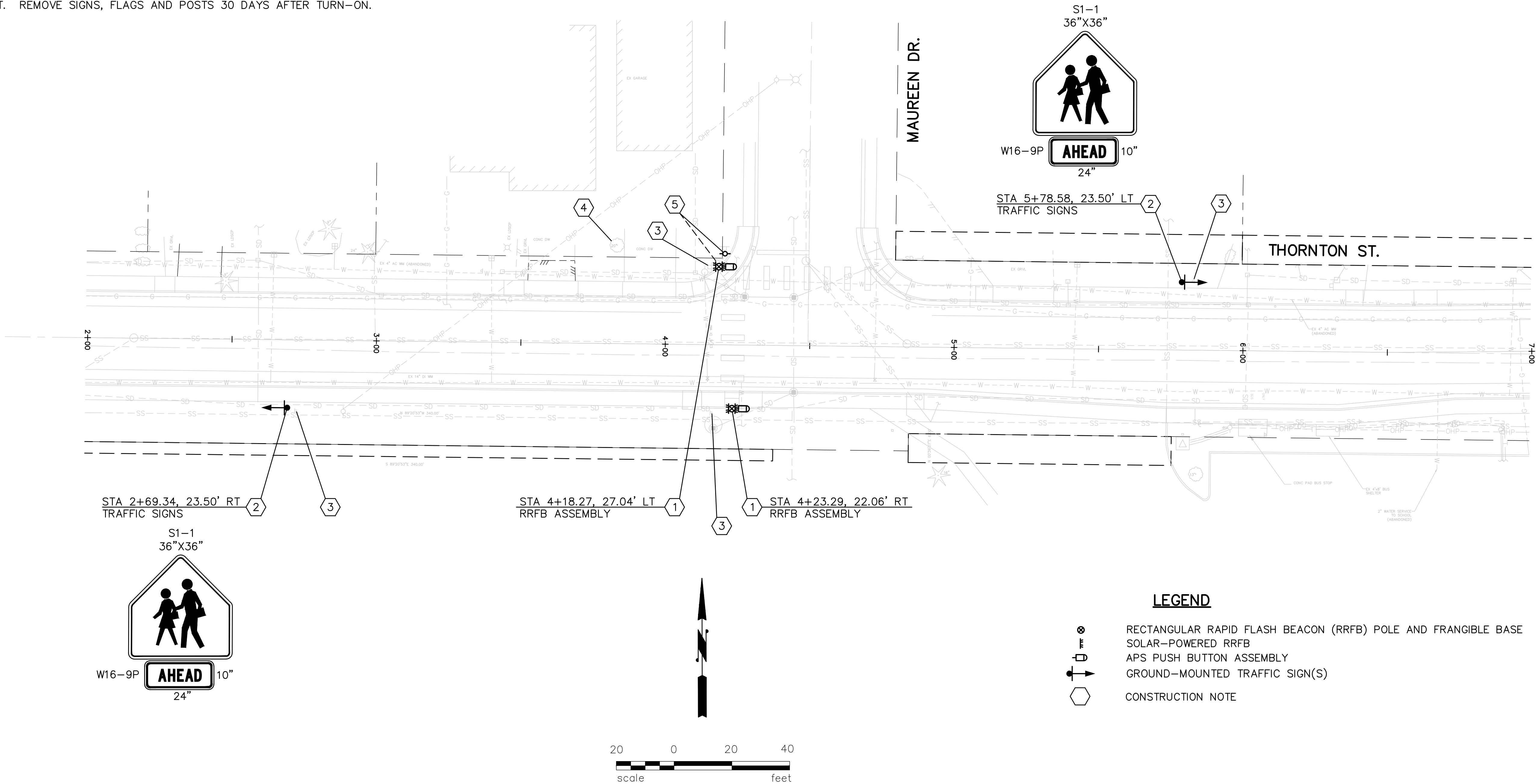
DATE 9/23/20
SHEET 20
of 23

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND ITS AMENDMENTS, SPECIAL PROVISIONS, WSDOT STANDARD PLANS AND NATIONAL ELECTRICAL CODE (ALL CURRENT VERSIONS).
- THIS PROJECT INVOLVES CONTRACTING AGENCY-SUPPLIED MATERIALS. ALL MATERIALS NOT LISTED AS AGENCY-SUPPLIED SHALL BE FURNISHED BY THE CONTRACTOR. SEE SPECIAL PROVISIONS.
- ALL RRFB FOUNDATIONS AND SIGN LOCATIONS SHALL BE POTHOLED FOR UNDERGROUND UTILITIES PRIOR TO INSTALLATION.
- ALL PERMANENT WARNING SIGNS SHALL BE BLACK SYMBOLS/LEGENDS/BORDERS ON FLUORESCENT YELLOW GREEN BACKGROUND.
- CONTRACTOR SHALL INSTALL TEMPORARY 36"x36" W20-901 "TRAFFIC REVISION AHEAD" SIGNS WITH BLACK LEGENDS AND ORANGE BACKGROUNDS ON 4"x4" TIMBER POSTS AT THE LOCATIONS STAKED BY ENGINEER (TOTAL OF THREE AT THORNTON/MAUREEN AND TOTAL OF FOUR AT VISTA/SEAMOUNT) PRIOR TO RRFB TURN-ON. INSTALL TWO ORANGE FLAGS AT TOP OF EACH POST. REMOVE SIGNS, FLAGS AND POSTS 30 DAYS AFTER TURN-ON.

CONSTRUCTION NOTES

- REMOVE EXISTING CURB RAMP LANDING AND ADJACENT PEDESTRIAN CURB. CONSTRUCT CURB TYPE FOUNDATION AT LOCATION SHOWN PER WSDOT STANDARD PLAN J-20.11-03, EXCEPT ANCHOR BOLTS SHALL BE PER POLE MANUFACTURER'S RECOMMENDATION. REPLACE CURB RAMP LANDING AND PEDESTRIAN CURB. INSTALL RRFB ASSEMBLY PER DETAILS ON SHEET BC3.
- INSTALL FOUNDATION, SQUARE STEEL SIGN SUPPORT AND TWO TRAFFIC SIGNS AT LOCATION SHOWN. USE WSDOT STANDARD PLAN G-24.50-03, TYPE ST-2. MOUNT W16-9P SIGN AT 7' ABOVE GRADE. MOUNT S1-1 SIGN DIRECTLY ABOVE W16-9P.
- REMOVE EXISTING S1-1 SCHOOL SIGN AND POST AND DELIVER TO CITY SHOPS.
- TRIM TREE TO PROVIDE UNOBSTRUCTED VISIBILITY TO SIGNS AND RRFB LIGHT BARS FOR EASTBOUND DRIVERS.
- PUGET SOUND ENERGY TO RELOCATE EXISTING STREET LIGHT POLE, ARM AND LUMINAIRE. APPROXIMATE NEW LOCATION OF POLE SHOWN.

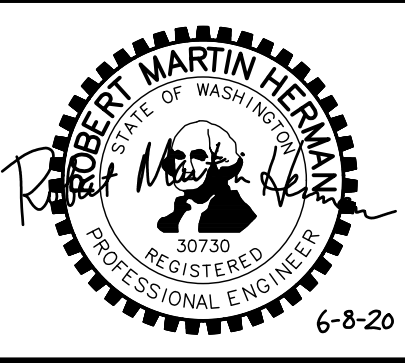


LEGEND

- RECTANGULAR RAPID FLASH BEACON (RRFB) POLE AND FRANGIBLE BASE
- SOLAR-POWERED RRFB
- APS PUSH BUTTON ASSEMBLY
- GROUND-MOUNTED TRAFFIC SIGN(S)
- CONSTRUCTION NOTE

DRAWN	RMH				
DESIGNED	RMH				
CHECKED	6/8/20 RMH				
PROJ. ENGR.					
DRAWING FILE	RRFB.DWG				
	DATE	REVISION	BY	APP'D	

FOR:
REICHHARDT & EBE ENGINEERING, INC.
P.O. Box 978
Lynden, WA 98264



HTE
HERMAN TRAFFIC ENGINEERING, INC.

11215 Southeast 220th Place, Kent, Washington 98031
253-236-4941 tel. hte@comcast.net

CITY OF FERDALE	WASHINGTON	BC1
COMPLETE STREETS THORNTON ST./MAUREEN DR.		SHEET
RECTANGULAR RAPID FLASH BEACON PLAN		OF SHEETS

CONSTRUCTION NOTES

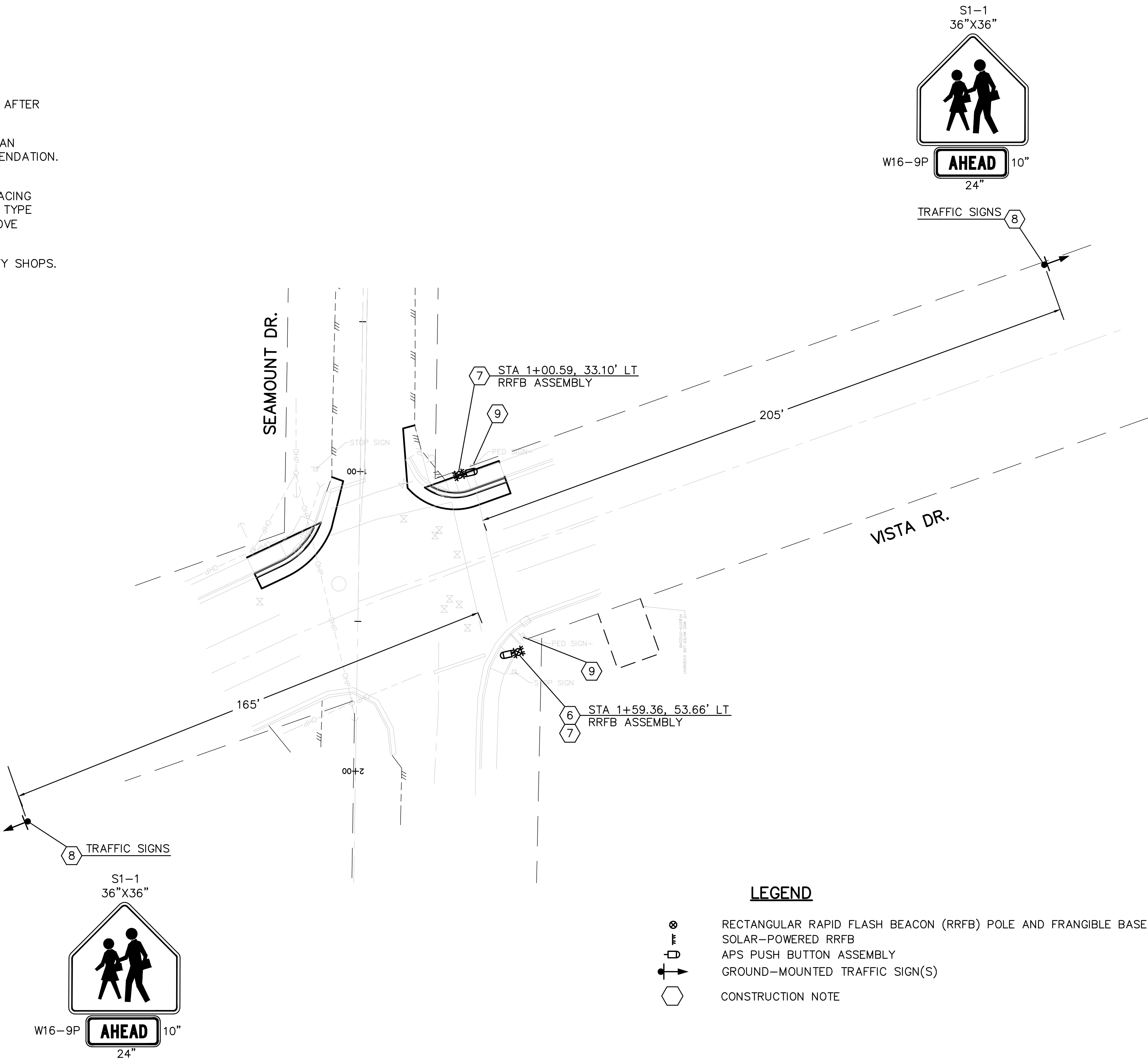
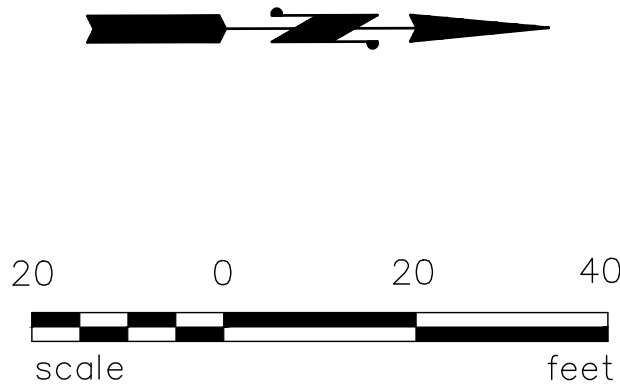
- 6

REMOVE EXISTING CURB RAMP LANDING AND ADJACENT PEDESTRIAN CURB PRIOR TO FOUNDATION CONSTRUCTION. REPLACE CURB RAMP LANDING AND PEDESTRIAN CURB AFTER FOUNDATION IS CONSTRUCTED.
- 7

CONSTRUCT CURB TYPE FOUNDATION AT LOCATION SHOWN PER WSDOT STANDARD PLAN J-20.11-03, EXCEPT ANCHOR BOLTS SHALL BE PER POLE MANUFACTURER'S RECOMMENDATION. INSTALL RRFB ASSEMBLY PER DETAILS ON SHEET BC3.
- 8

INSTALL FOUNDATION, SQUARE STEEL SIGN SUPPORT AND TWO TRAFFIC SIGNS AT SPACING SHOWN AND 1' OFF BACK OF SIDEWALK. USE WSDOT STANDARD PLAN G-24.50-03, TYPE ST-2. MOUNT W16-9P SIGN AT 7' ABOVE GRADE. MOUNT S1-1 SIGN DIRECTLY ABOVE W16-9P.
- 9

REMOVE EXISTING W11-2 PEDESTRIAN CROSSING SIGN AND POST AND DELIVER TO CITY SHOPS.



DRAWN	RMH				
DESIGNED	RMH				
CHECKED	6/8/20 RMH				
PROJ. ENGR.					
DRAWING FILE	RRFB.DWG				
	DATE	REVISION	BY	APP'D	

FOR:
REICHHARDT & EBE ENGINEERING, INC.
P.O. Box 978
Lynden, WA 98264

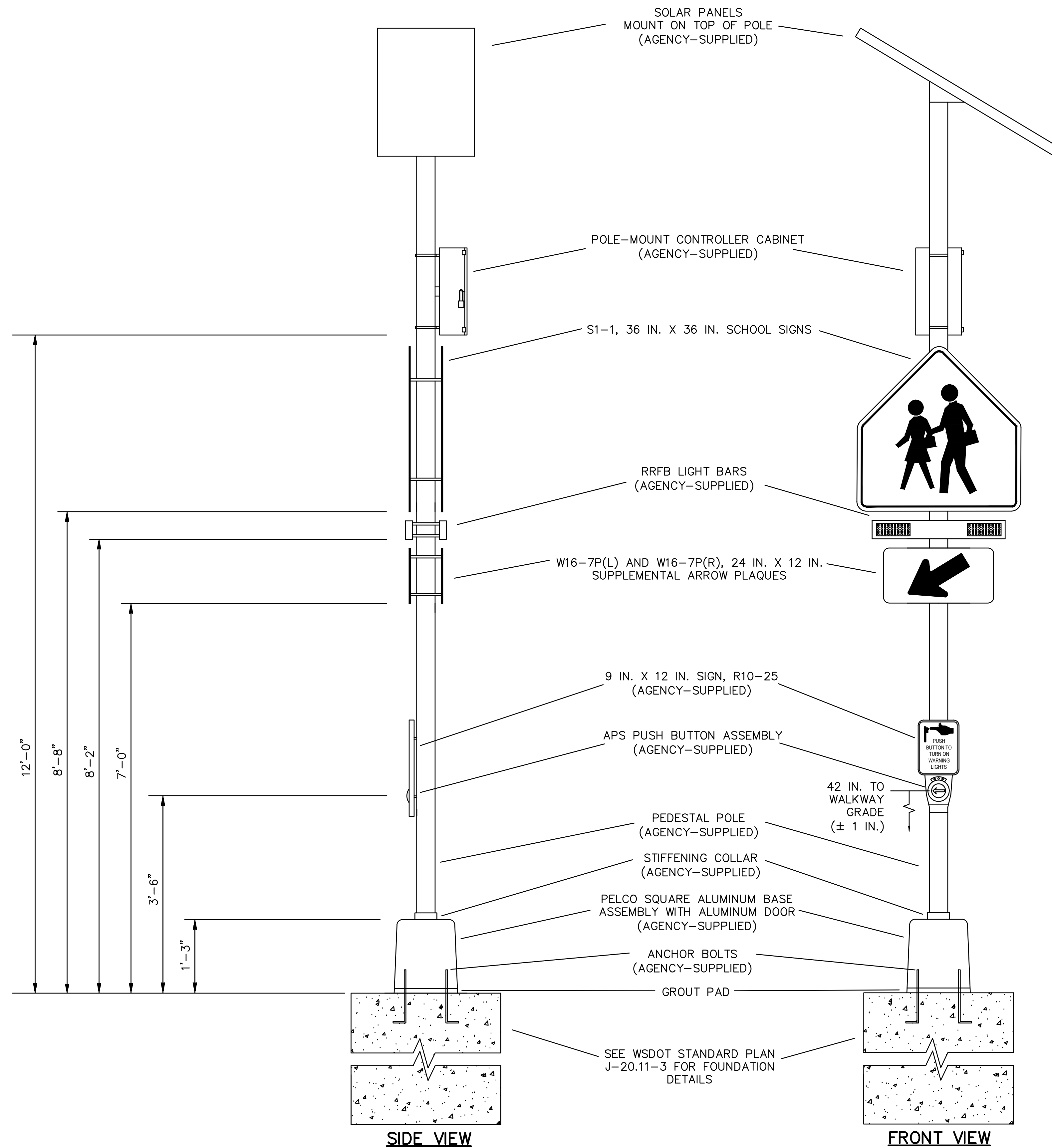


HTE

HERMAN TRAFFIC ENGINEERING, INC.

11215 Southeast 220th Place, Kent, Washington 98031
253-236-4941 tel. hte@comcast.net

CITY OF FERNDALE	WASHINGTON	BC2
COMPLETE STREETS VISTA DR./SEAMOUNT DR.		SHEET
RECTANGULAR RAPID FLASH BEACON PLAN		OF
		SHEETS



RRFB NOTES

1. USE STAINLESS STEEL MOUNTING CLAMPS AND BRACKETS TO MOUNT SIGNS, RRFB AND CONTOLLER CABINET TO POLE.
2. ALL APS PUSH BUTTONS (FACE OF PUSH BUTTON) SHALL BE ORIENTED AS SHOWN ON PLANS AND PARALLEL WITH CROSSWALK.
3. CONTRACTOR SHALL CONSTRUCT EACH RRFB ASSEMBLY AS SHOWN INCLUDING INTERNAL WIRING TERMINATIONS PER MANUFACTURER'S RECOMMENDATIONS.

RECTANGULAR RAPID FLASH BEACON ASSEMBLY DETAIL
(NOT TO SCALE)

DRAWN	RMH				
DESIGNED	RMH				
CHECKED	6/8/20 RMH				
PROJ. ENGR.					
DRAWING FILE	RRFB.DWG				
DATE		REVISION		BY	APP'D

FOR:
REICHHARDT & EBE ENGINEERING, INC.
P.O. Box 978
Lynden, WA 98264



HTE HERMAN TRAFFIC ENGINEERING, INC.
11215 Southeast 220th Place, Kent, Washington 98031
253-236-4941 tel. hte@comcast.net

CITY OF FERNDALE	WASHINGTON	BC3
COMPLETE STREETS		
RRFB ASSEMBLY DETAIL		SHEET OF SHEETS