

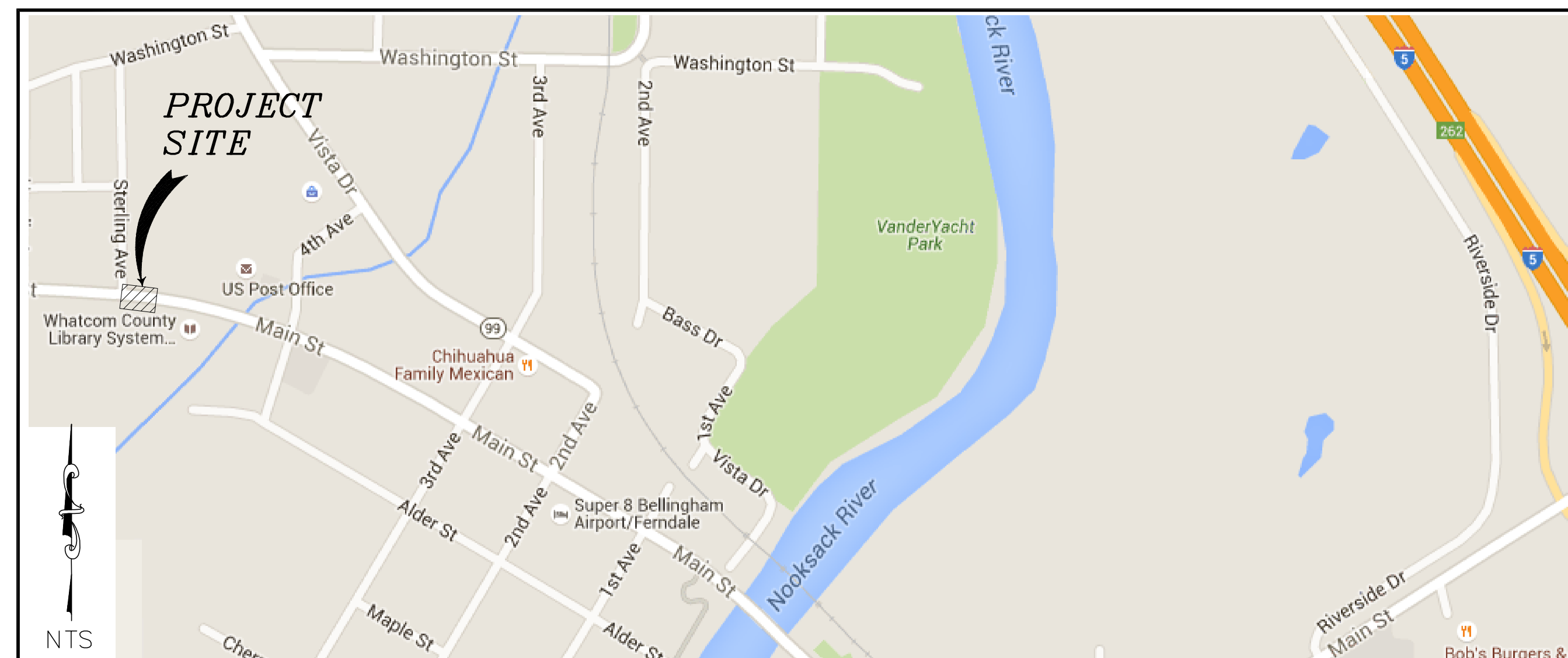
LIBRARY CROSSWALK RECTANGULAR RAPID FLASH BEACON (RRFB) IMPROVEMENTS

FERNDALE, WA

CITY OF FERNDALE - PROJECT NO. ST2015-06

VICINITY MAP

PROJECT LOCATED IN SECTION 19 & 30, TOWNSHIP 39N, RANGE 2E, W.M.



SHEET SERIES INDEX	
SHEET	DESCRIPTION
1	COVER
2	LEGEND, ABBREVIATIONS AND NOTES
3	EX CONDITIONS, TESC AND DEMOLITION PLAN
4	GRADNG PLAN
5	DETAILS
TS1	RECTANGULAR RAPID FLASH BEACON PLAN
TS2	RECTANGULAR RAPID FLASH BEACON DETAILS
TS3	RECTANGULAR RAPID FLASH BEACON DETAILS



12/15/15

BID SET

DESIGNED BY
LP
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

CITY OF FERNDALE
2095 MAIN STREET
FERNDALE, WA 98248

MAIN STREET
CROSSING
COVER

DWG 15025 COVER AND LEGEND

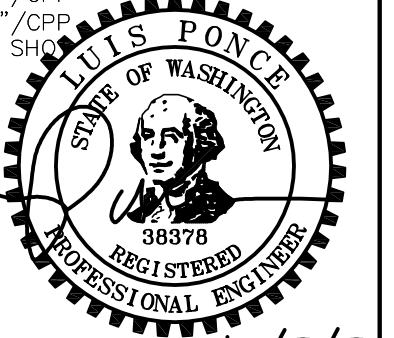
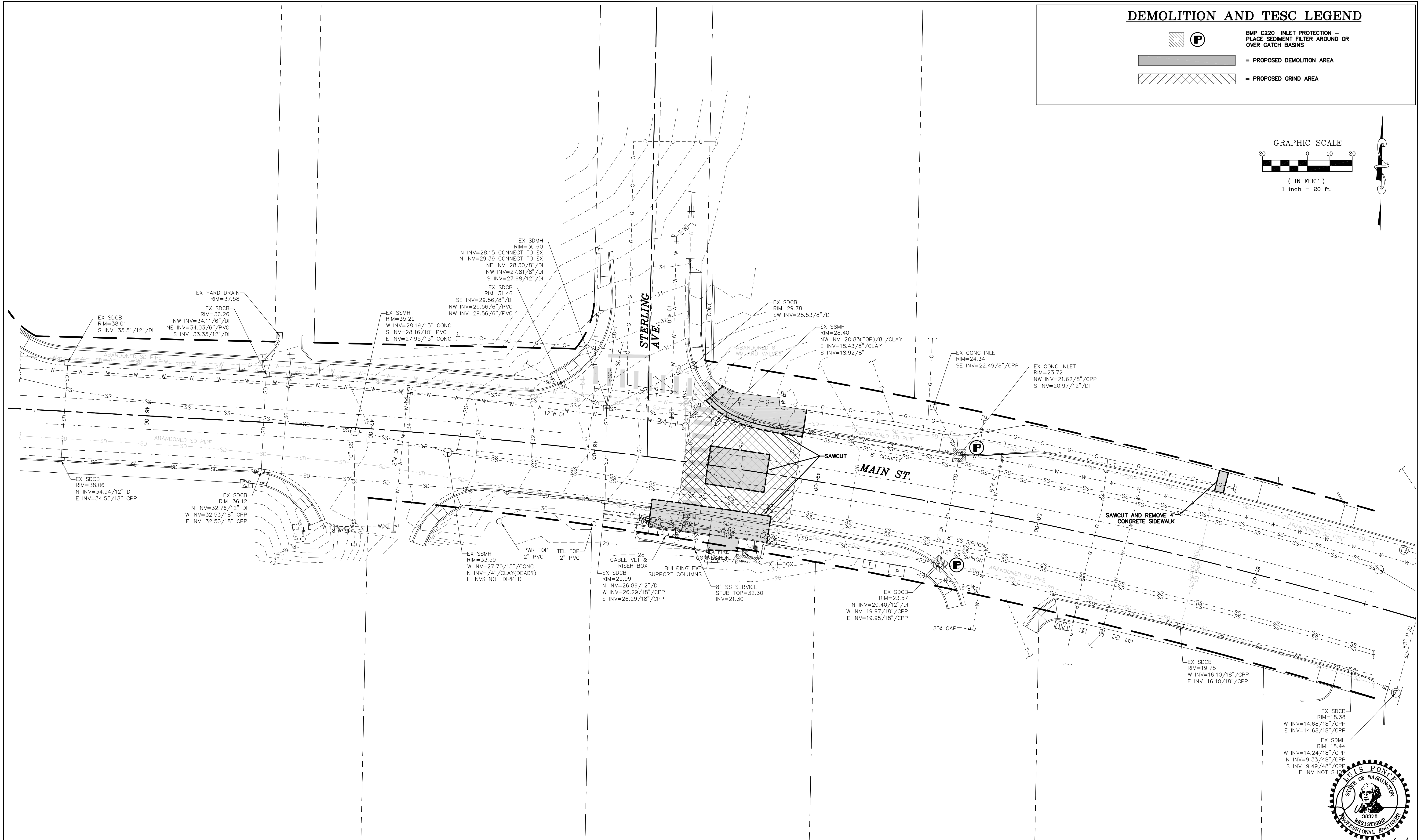
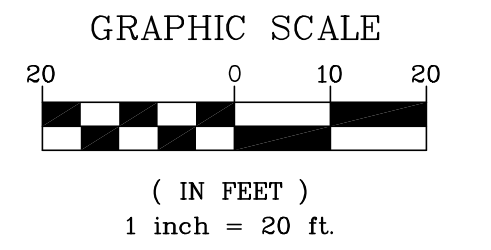
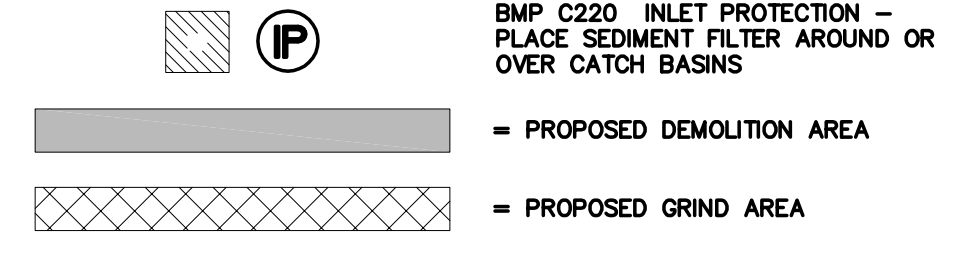
DATE 12/15/2015

JOB# 15025

SCALE H: N/A V: N/A

SHEET 1 of 5

DEMOLITION AND TESC LEGEND



12/16/16

BID SET

DESIGNED BY LP
 DRAWN BY RWG
 CHECKED BY LP

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NO.	DATE	DESCRIPTION	BY

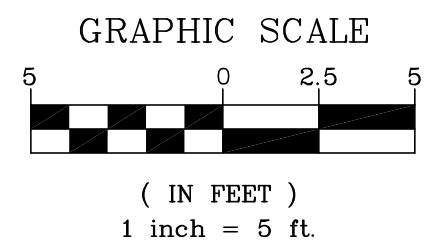
CITY OF FERDALE
 2095 MAIN STREET
 FERDALE, WA 98248

MAIN STREET CROSSING
 EX CONDITIONS, TESC AND DEMOLITION PLAN

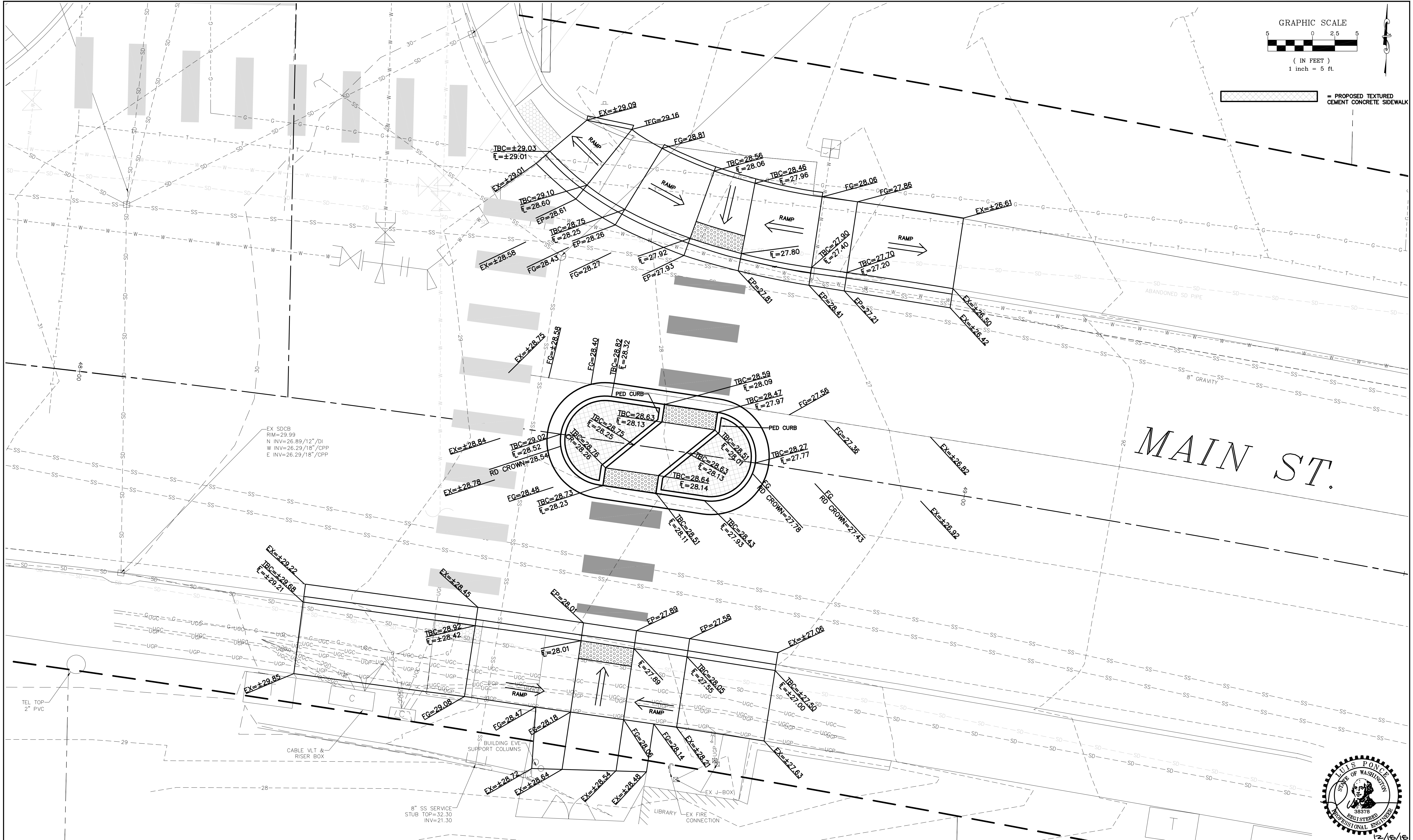
DWG 15025 EX COND, TESC, DEMO
 JOB# 15025
 SCALE H: 1"=20' v: N/A

DATE 12/15/2015
 SHEET 3 of 5

P:\Projects\15025\15025 EX COND, TESC, DEMO.dwg, 3 EX CONDITIONS AND DEMOLITION PLAN, 12/15/2015 9:10:21 AM



PROPOSED TEXTURED CEMENT CONCRETE SIDEWALK



BID SET

DESIGNED BY
 DESIGN
 DRAWN BY
 CHECKED BY
 CHECK

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NO.	DATE	DESCRIPTION	BY

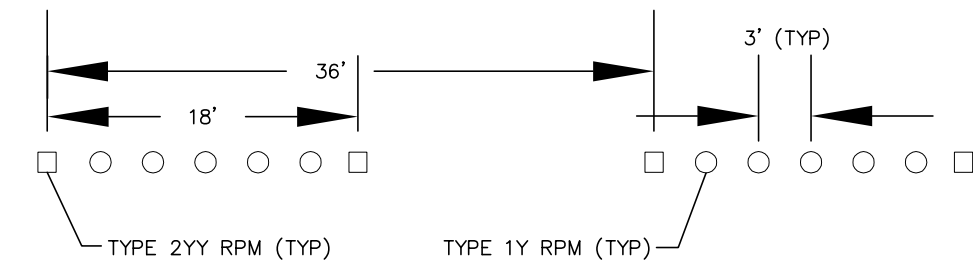
CITY OF FERDALE
 2095 MAIN STREET
 FERDALE, WA 98248

MAIN STREET
 CROSSING
 GRADING PLAN

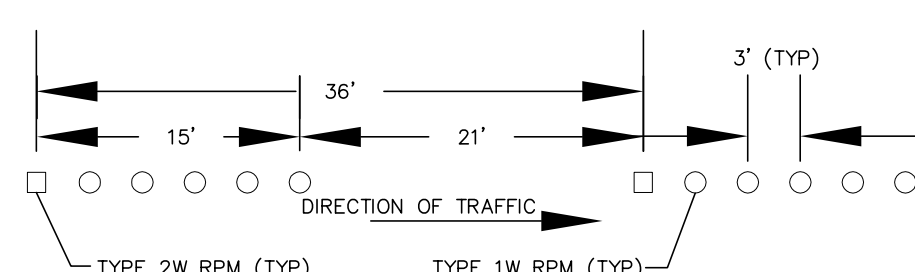
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 SCALE H: 1"=5' v: N/A

DATE 12/15/2015
 SHEET 4 of 5

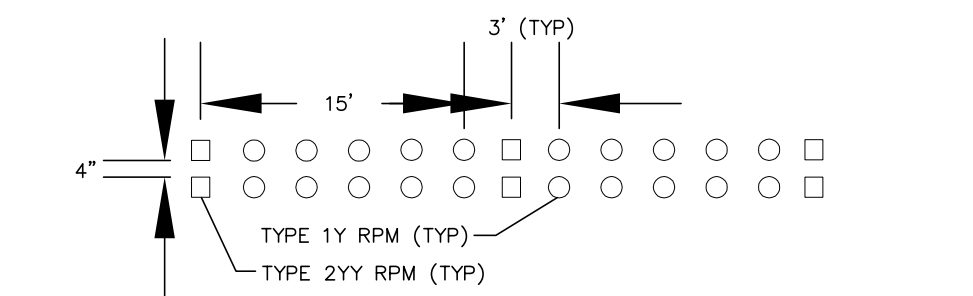
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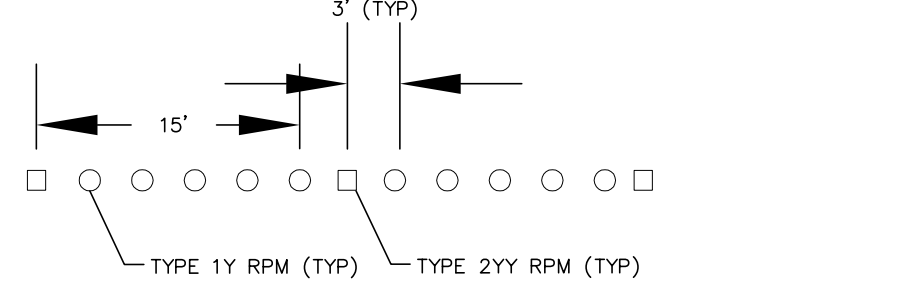
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NTS RAISED PAVEMENT MARKER SUBSTITUTION
 PER CITY OF FERNDALÉ



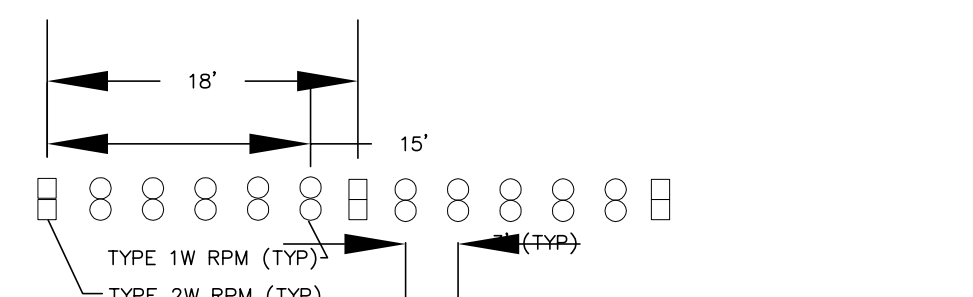
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 PER CITY OF FERNDALÉ



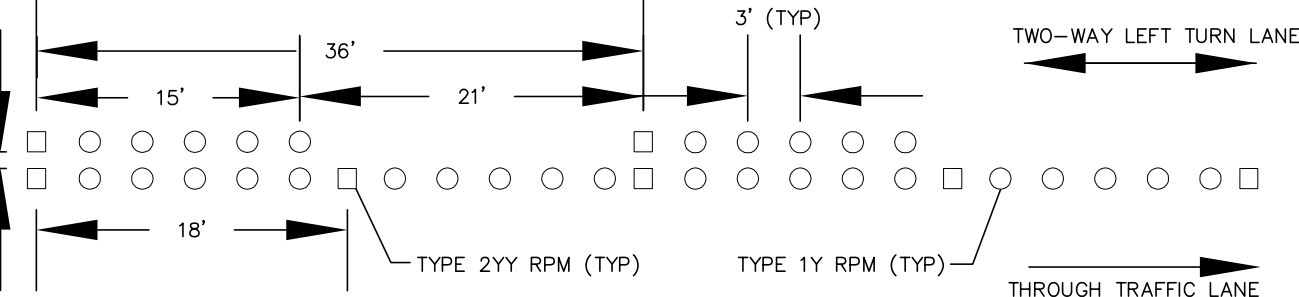
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 PER CITY OF FERNDALÉ



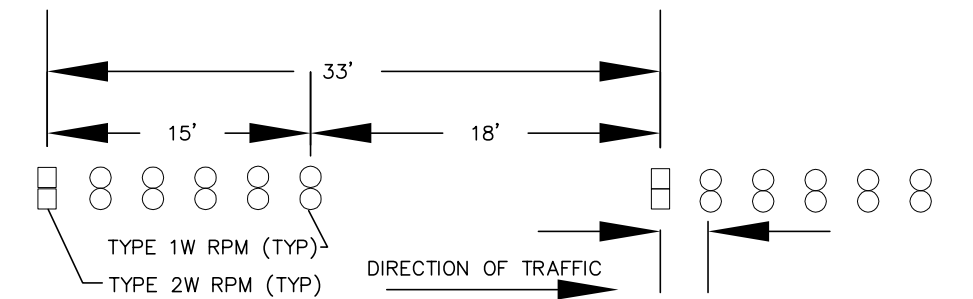
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 PER CITY OF FERNDALÉ



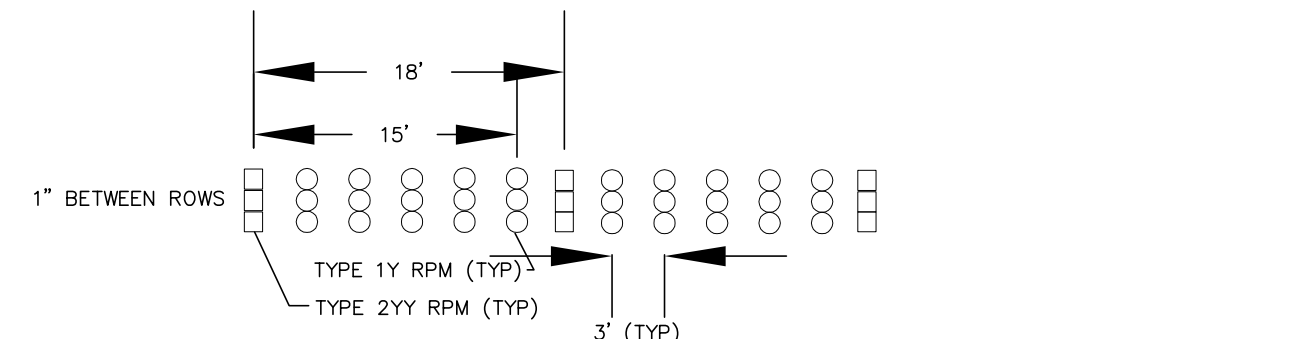
GORE STRIPE DETAIL
NTS RAISED PAVEMENT MARKER SUBSTITUTION
 PER CITY OF FERNDALÉ



TWO-WAY LEFT TURN STRIPE DETAIL
NTS RAISED PAVEMENT MARKER SUBSTITUTION
 PER CITY OF FERNDALÉ



SKIP GORE STRIPE DETAIL
NTS RAISED PAVEMENT MARKER SUBSTITUTION
 PER CITY OF FERNDALÉ



BARRIER STRIPE DETAIL
NTS RAISED PAVEMENT MARKER SUBSTITUTION
 PER CITY OF FERNDALÉ

NOT TO SCALE

APPROVED

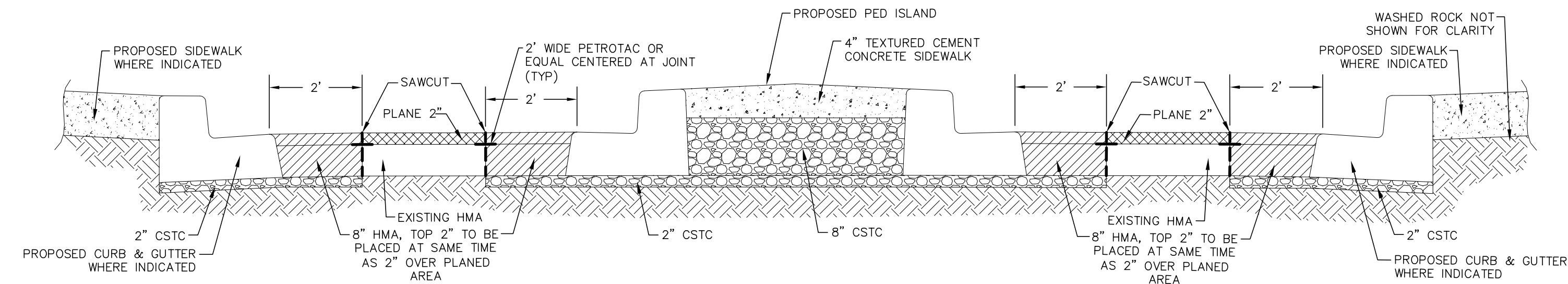
Public Works Director

Date

CITY OF FERNDALÉ
 STRIPING DETAILS

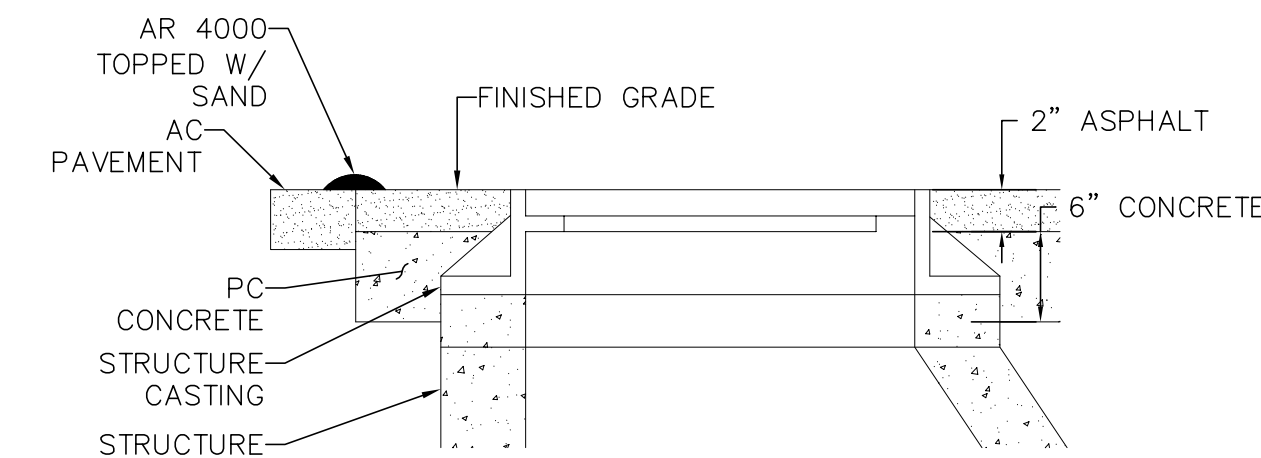
DRAWING
 RPM

JULY 2001

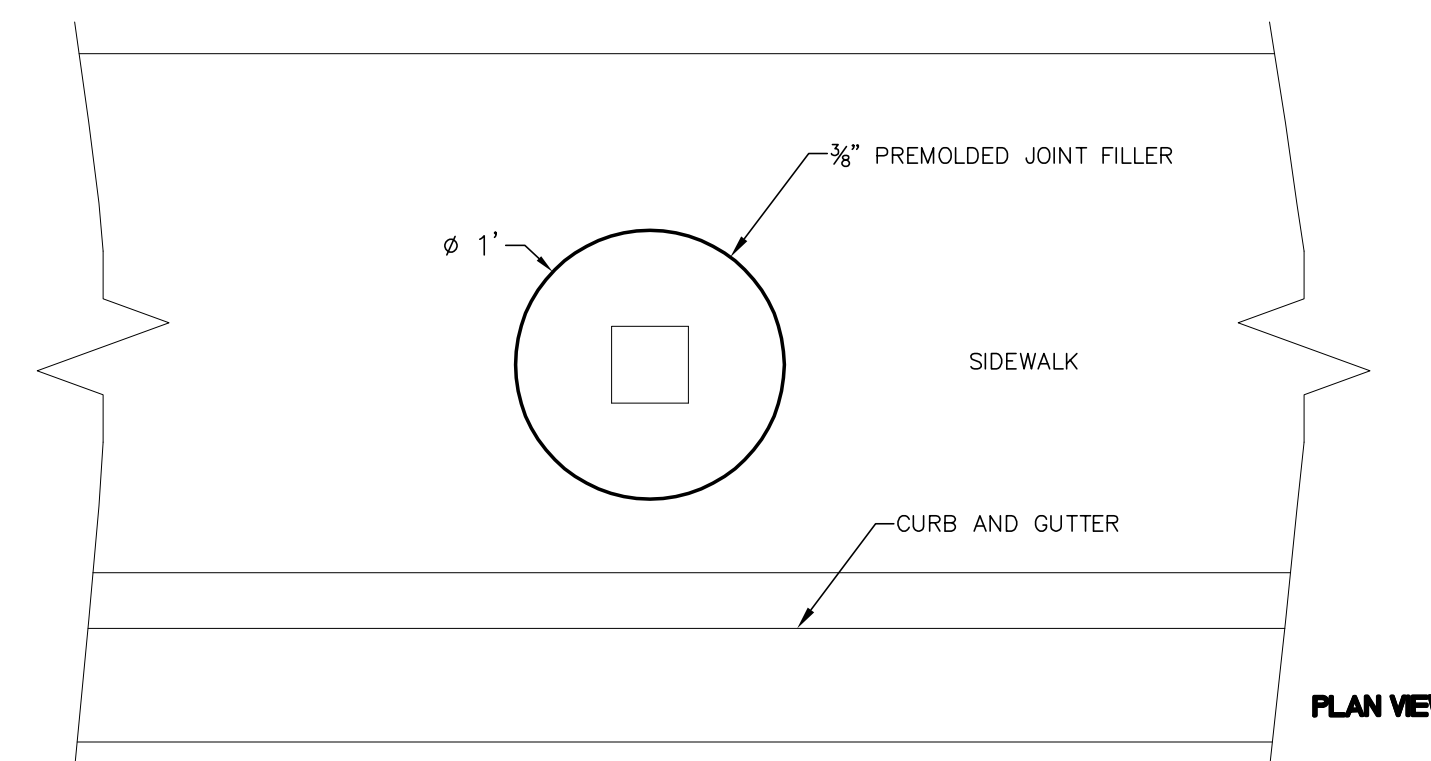
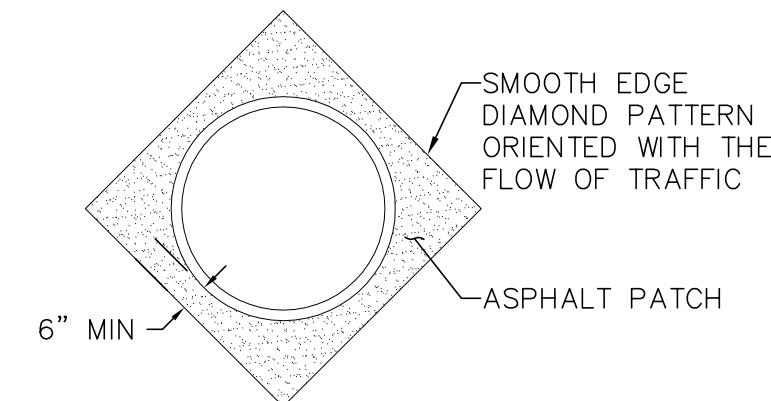


**TYPICAL CURB, GUTTER AND SIDEWALK,
 PEDESTRIAN ISLAND
 REMOVAL/REPLACEMENT SECTION**
NTS

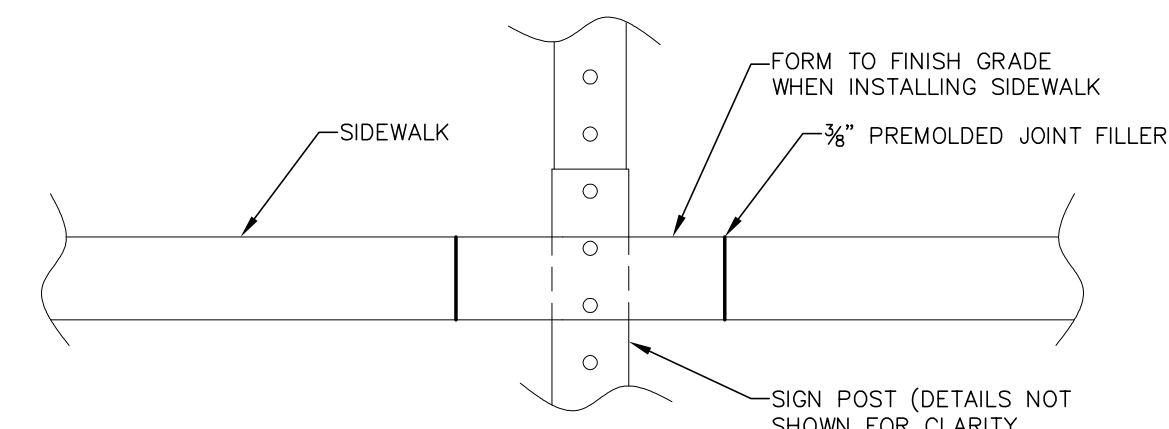
- NOTES:**
 ALL FRAMES, COVERS & VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADE AFTER THE FINAL LIFT OF PAVING HAS BEEN COMPLETED. THE FOLLOWING PROCEDURE SHALL BE USED:
1. CUT THE ASPHALT IN A DIAMOND AROUND THE STRUCTURE CASTING TO BE ADJUSTED.
 2. REMOVE THE FILL MATERIAL WITHIN THE CUT PAVEMENT AREA TO 8 INCHES MIN. BELOW FINISH GRADE.
 3. PLACE THE CASTING AT FINISH GRADE USING PRECAST RISER SECTIONS. BRICKS OR BLOCKS SHALL NOT BE ALLOWED.
 4. PLACE PORTLAND CEMENT CONCRETE TO WITHIN THE TOP 2 INCHES OF FINISH GRADE.
 5. APPLY TACK TO THE STRUCTURE CASTING, CUT PAVEMENT, & PC CONCRETE.
 6. PLACE & COMPACT 2 INCHES OF COMMERCIAL HMA TO FINISH GRADE.
 7. SEAL PAVEMENT JOINTS W/ HOT AR4000 & TOP W/ SAND.



**ADJUSTING CASINGS TO
 FINISHED GRADE**
NTS

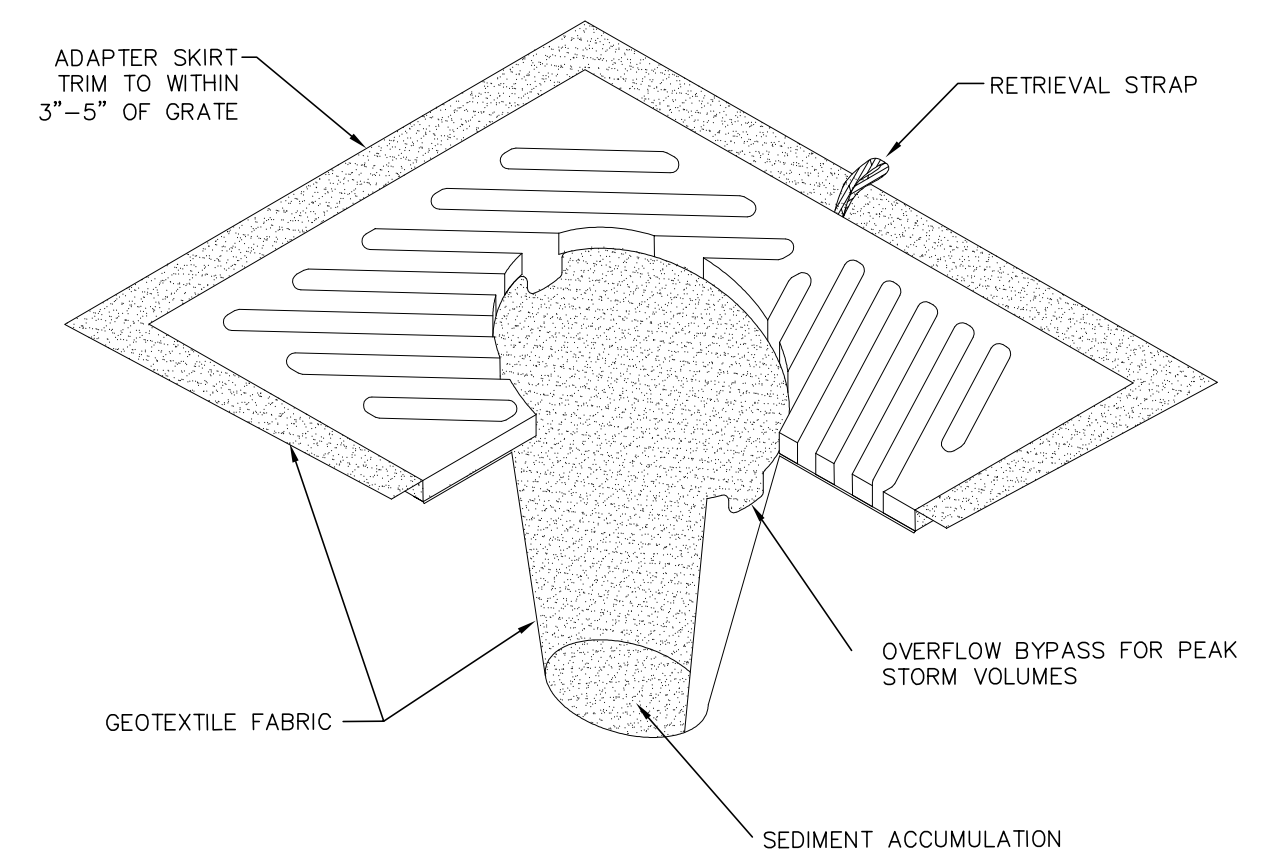


PLAN VIEW



SECTION VIEW

TYPICAL SIGN WITHIN SIDEWALK SECTION
NTS



NOTES:

1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

CATCH BASIN INSERT
NTS



12/16/15

BID SET

DESIGNED BY LP
 DRAWN BY RWG
 CHECKED BY LP

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 813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1713

NO.	DATE	DESCRIPTION	BY

CITY OF FERNDALÉ
 2095 MAIN STREET
 FERNDALÉ, WA 98248

MAIN STREET
 CROSSING
 DETAILS

DWG 15025 DETAILS
 JOB# 15025

SCALE H: N/A v: N/A

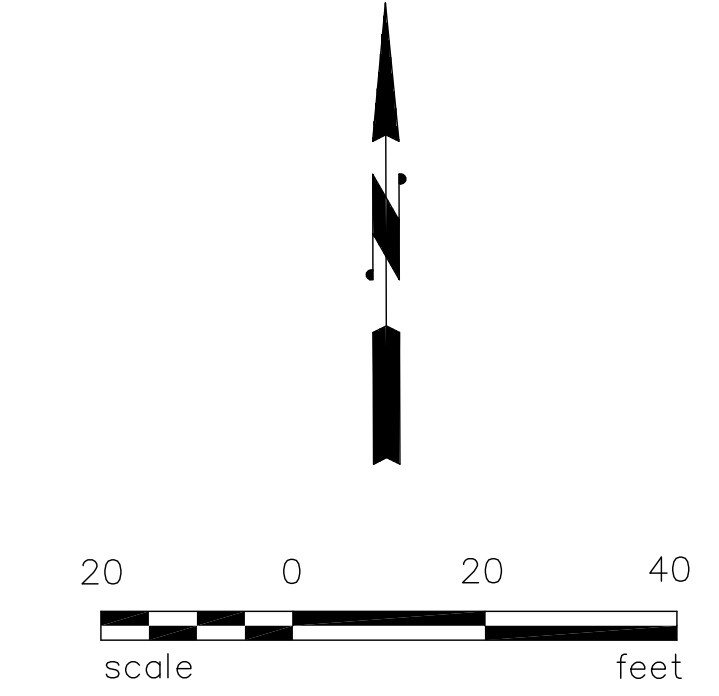
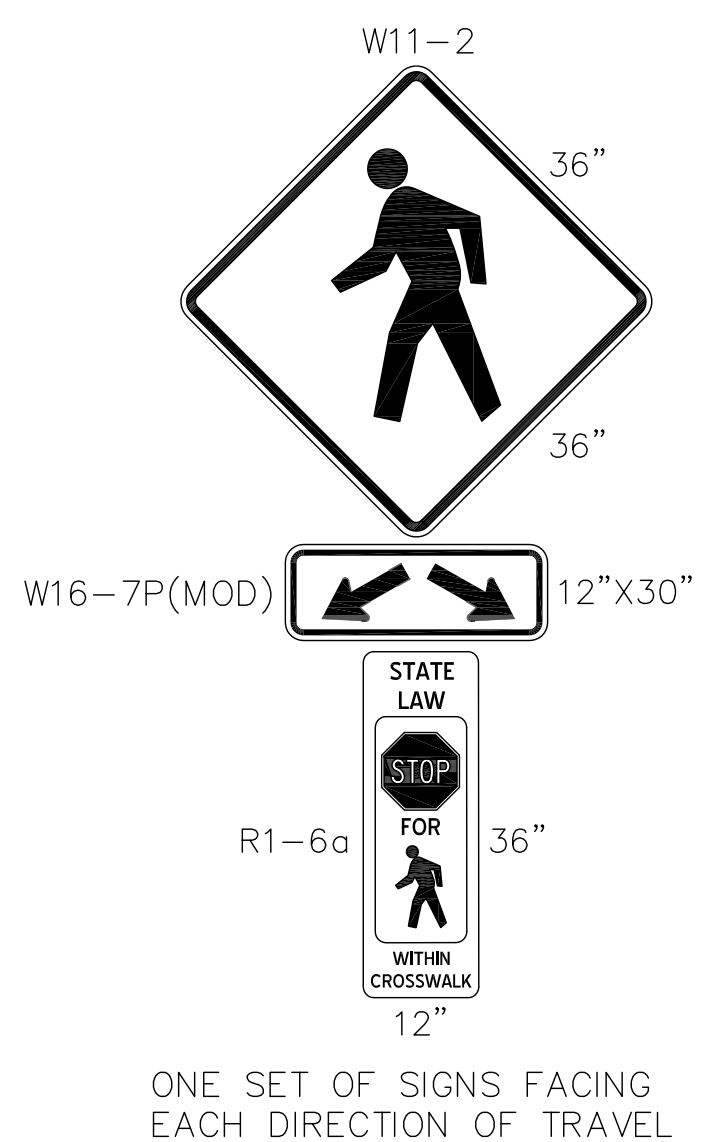
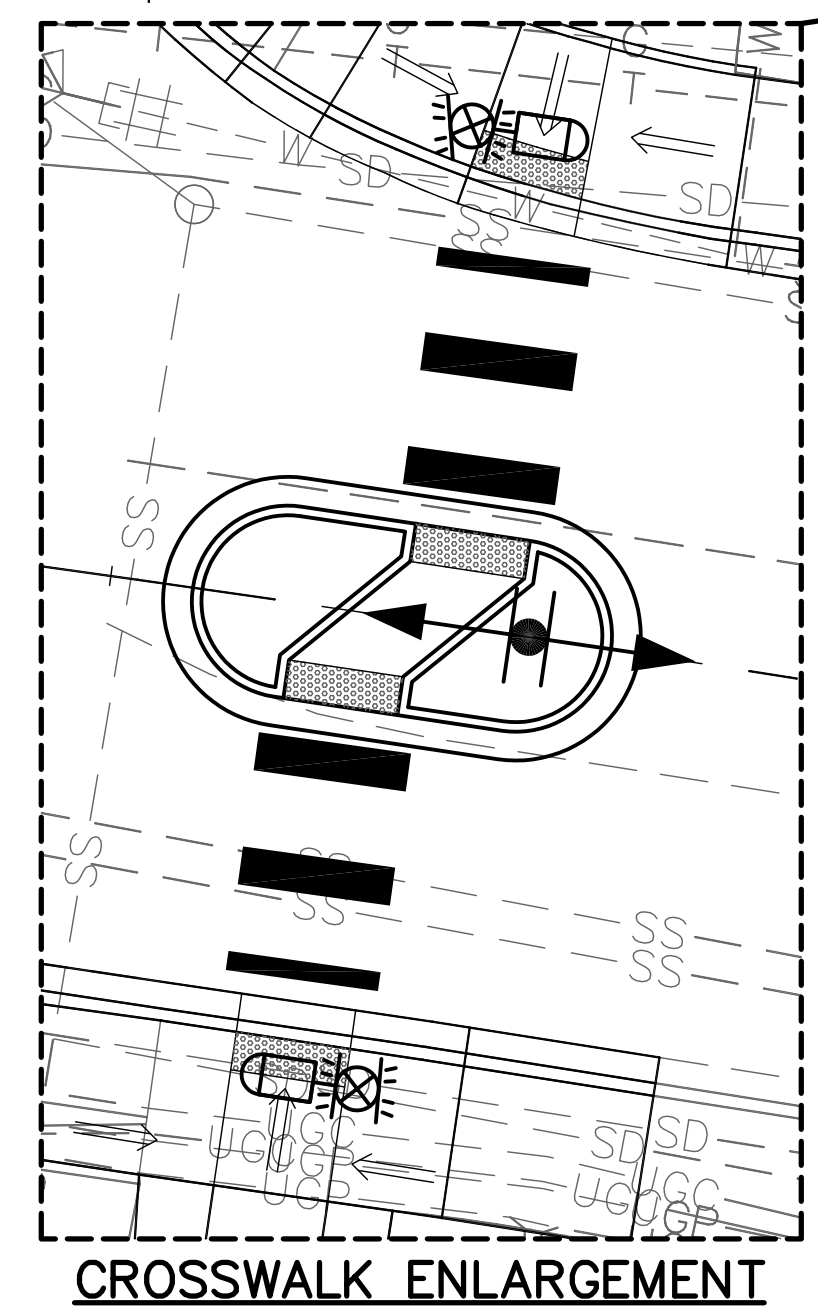
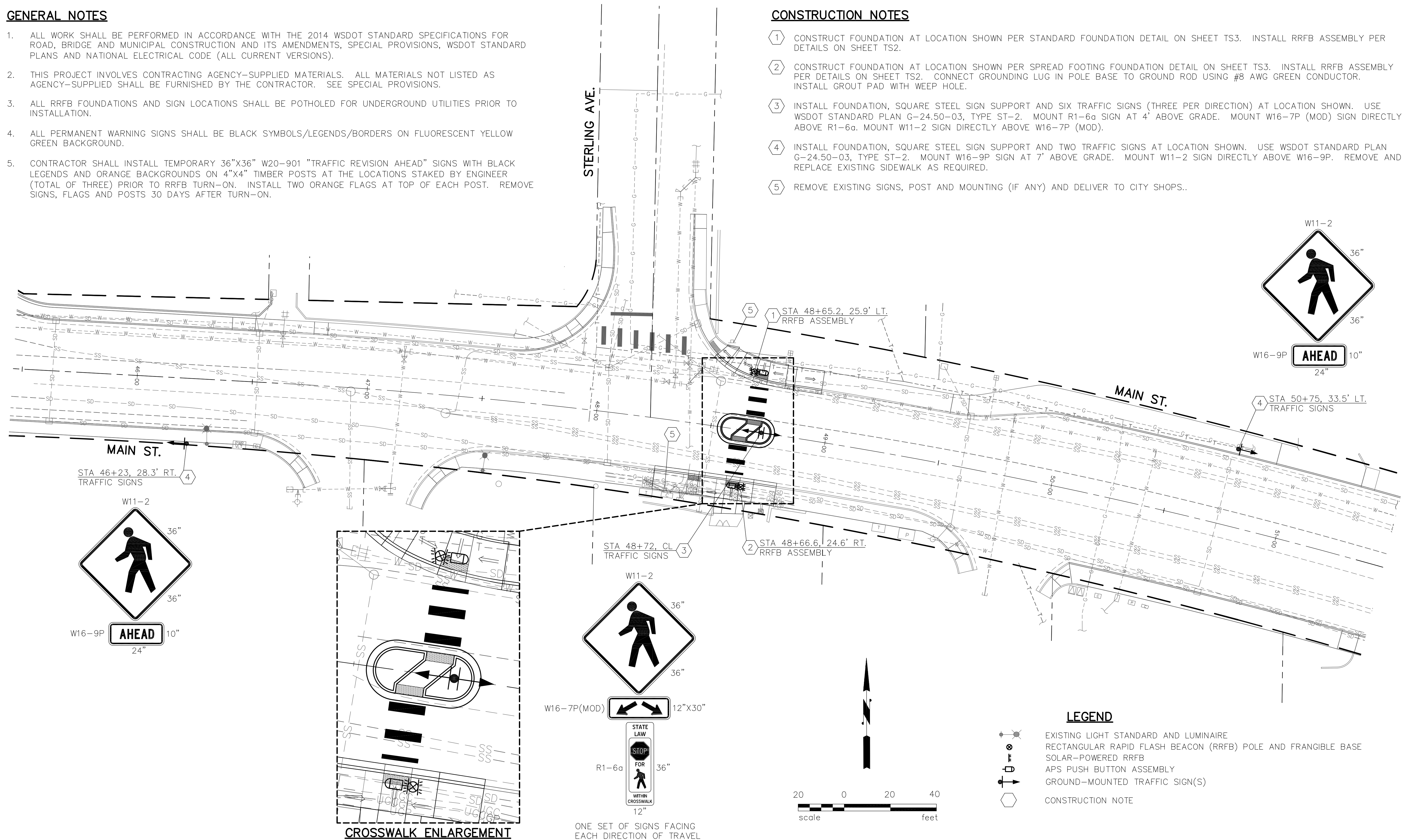
DATE 12/15/2015
 SHEET 5 of 5

GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2014 WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AND ITS AMENDMENTS, SPECIAL PROVISIONS, WSDOT STANDARD PLANS AND NATIONAL ELECTRICAL CODE (ALL CURRENT VERSIONS).
2. THIS PROJECT INVOLVES CONTRACTING AGENCY-SUPPLIED MATERIALS. ALL MATERIALS NOT LISTED AS AGENCY-SUPPLIED SHALL BE FURNISHED BY THE CONTRACTOR. SEE SPECIAL PROVISIONS.
3. ALL RRFB FOUNDATIONS AND SIGN LOCATIONS SHALL BE POTHOLED FOR UNDERGROUND UTILITIES PRIOR TO INSTALLATION.
4. ALL PERMANENT WARNING SIGNS SHALL BE BLACK SYMBOLS/LEGENDS/BORDERS ON FLUORESCENT YELLOW GREEN BACKGROUND.
5. 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) 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

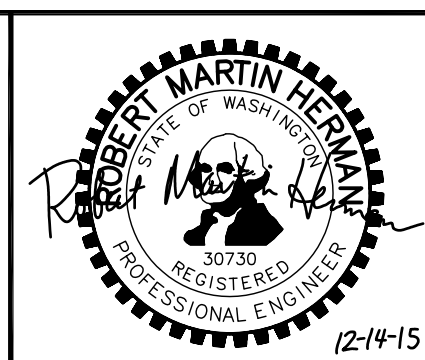
1. CONSTRUCT FOUNDATION AT LOCATION SHOWN PER STANDARD FOUNDATION DETAIL ON SHEET TS3. INSTALL RRFB ASSEMBLY PER DETAILS ON SHEET TS2.
2. CONSTRUCT FOUNDATION AT LOCATION SHOWN PER SPREAD FOOTING FOUNDATION DETAIL ON SHEET TS3. INSTALL RRFB ASSEMBLY PER DETAILS ON SHEET TS2. CONNECT GROUNDING LUG IN POLE BASE TO GROUND ROD USING #8 AWG GREEN CONDUCTOR. INSTALL GROUT PAD WITH WEEP HOLE.
3. INSTALL FOUNDATION, SQUARE STEEL SIGN SUPPORT AND SIX TRAFFIC SIGNS (THREE PER DIRECTION) AT LOCATION SHOWN. USE WSDOT STANDARD PLAN G-24.50-03, TYPE ST-2. MOUNT R1-6a SIGN AT 4' ABOVE GRADE. MOUNT W16-7P (MOD) SIGN DIRECTLY ABOVE R1-6a. MOUNT W11-2 SIGN DIRECTLY ABOVE W16-7P (MOD).
4. 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 W11-2 SIGN DIRECTLY ABOVE W16-9P. REMOVE AND REPLACE EXISTING SIDEWALK AS REQUIRED.
5. REMOVE EXISTING SIGNS, POST AND MOUNTING (IF ANY) AND DELIVER TO CITY SHOPS..



- LEGEND**
- EXISTING LIGHT STANDARD AND LUMINAIRE
 - 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	12/14/15 RMH				
PROJ. ENGR.					
DRAWING FILE	RRFB_rev1.DWG				
DATE		REVISION		BY	APP'D

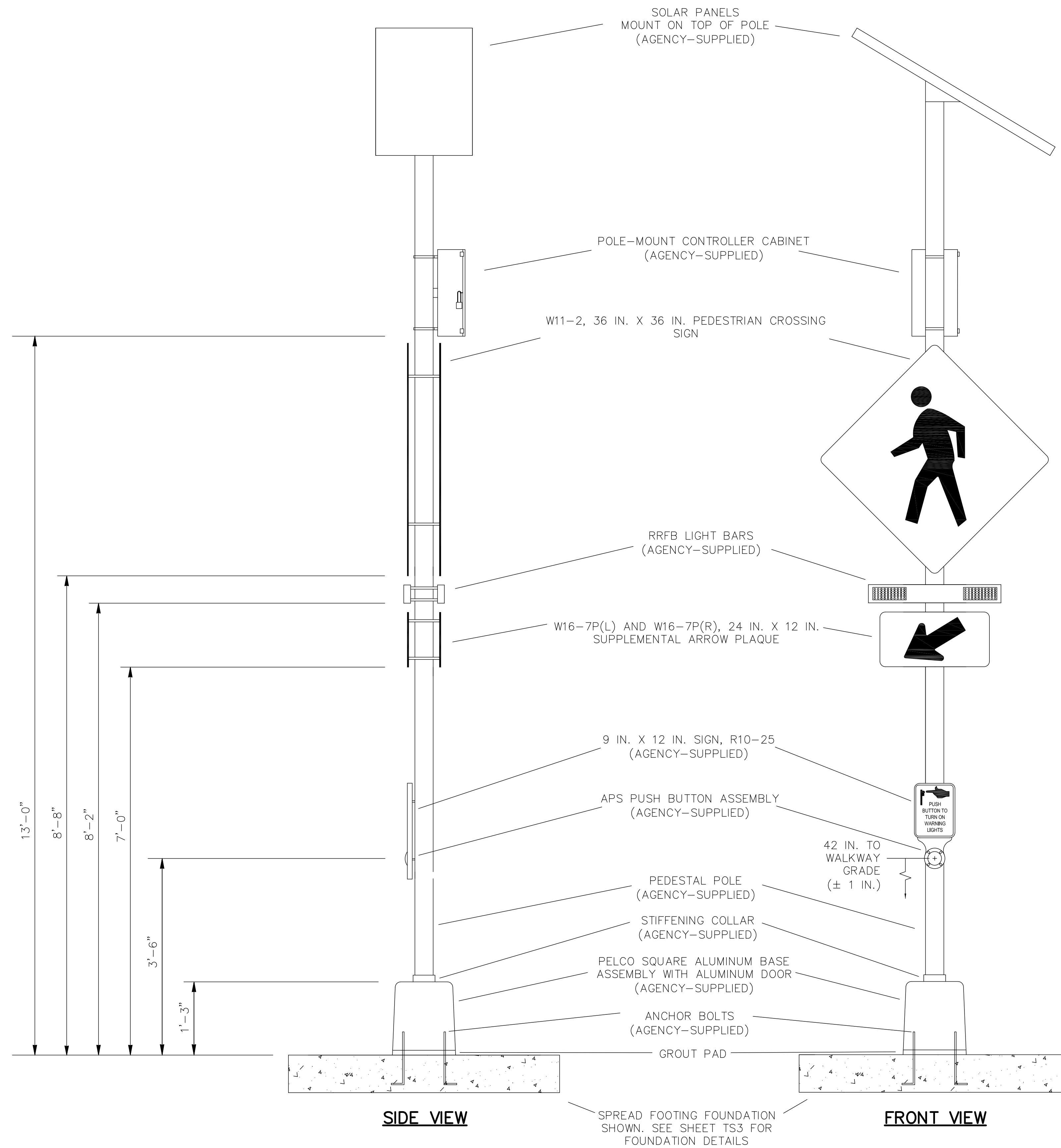
FOR:
REICHHARDT & EBE ENGINEERING, INC.
 813 Metcalf Street
 Sedro-Woolley, WA 98284



HTE HERMAN TRAFFIC ENGINEERING

15324 Southeast 133rd Court, Renton, Washington 98059
 425-277-1740 tel. 425-277-5718 fax hte@comcast.net

CITY OF FERDALE	WASHINGTON	TS1
MAIN STREET/STERLING AVENUE		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 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	12/14/15 RMH				
PROJ. ENGR.					
DRAWING FILE	RRFB_rev1.DWG				
DATE		REVISION		BY	APP'D

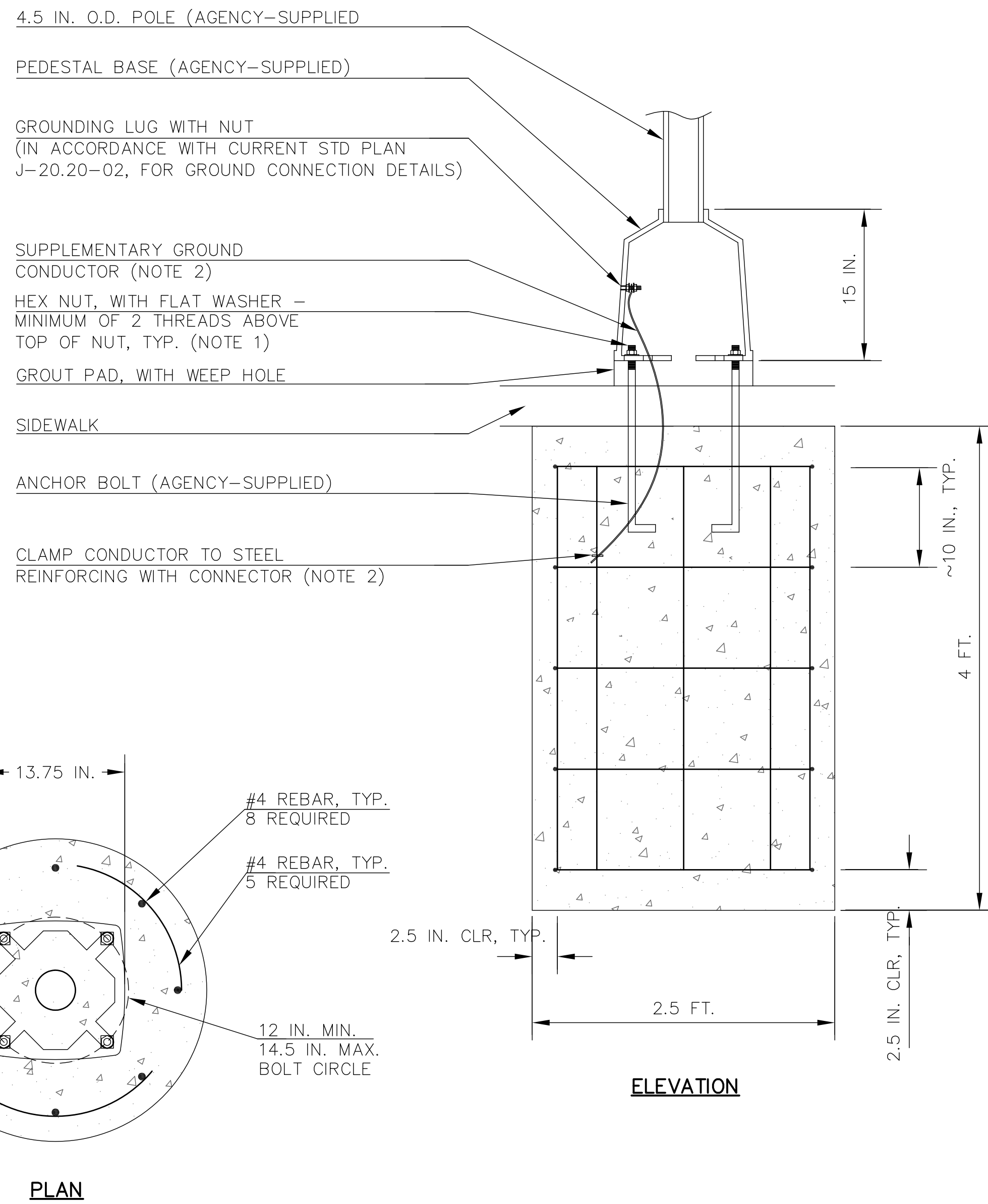
FOR:
REICHHARDT & EBE ENGINEERING, INC.
 813 Metcalf Street
 Sedro-Woolley, WA 98284



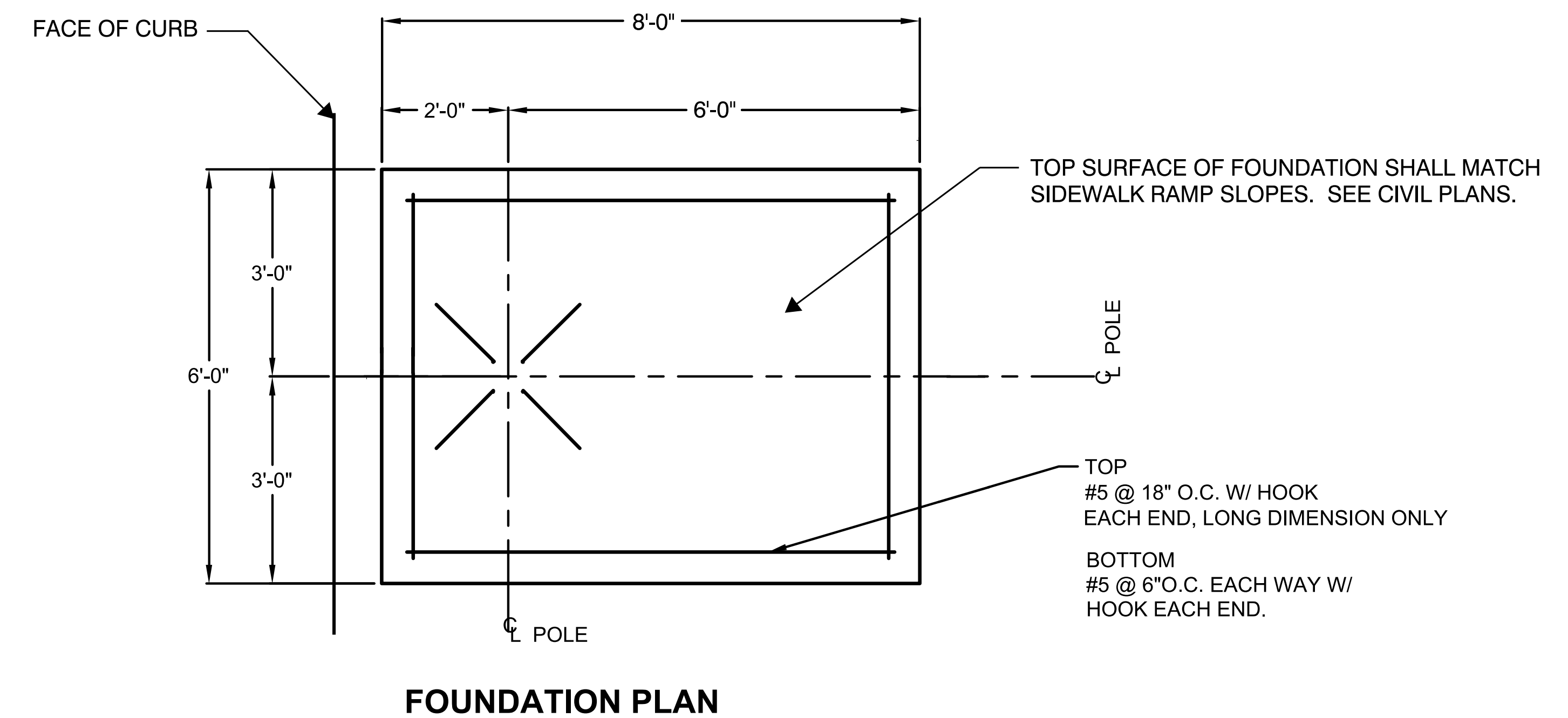
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CITY OF FERDALE	WASHINGTON
MAIN STREET/STERLING AVENUE	
RECTANGULAR RAPID FLASH BEACON DETAILS	

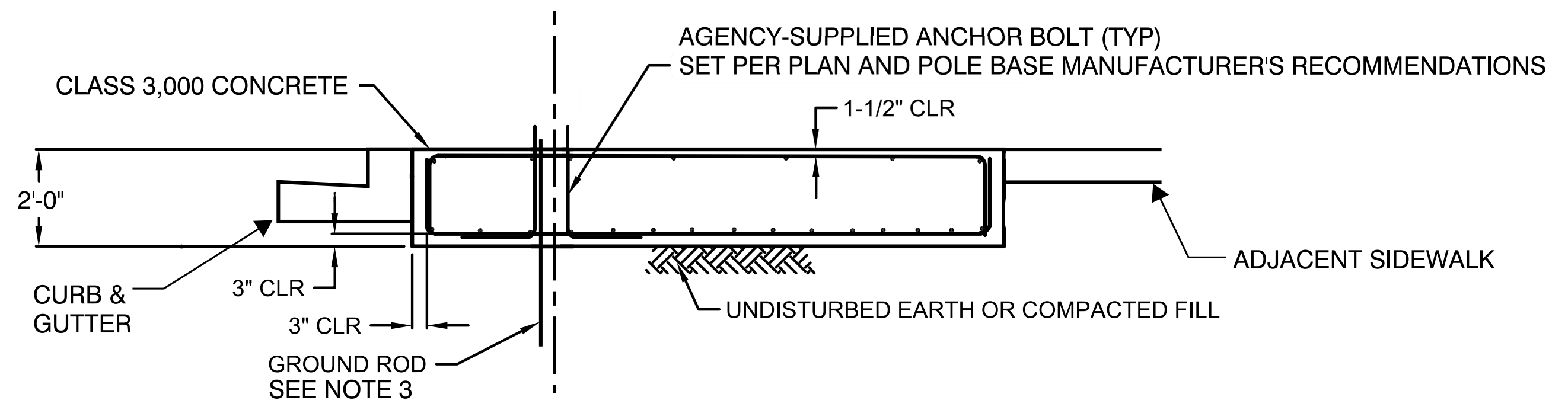
TS2
 SHEET
 OF
 SHEETS



STANDARD FOUNDATION DETAIL
(NOT TO SCALE)



FOUNDATION PLAN



FOUNDATION SECTION

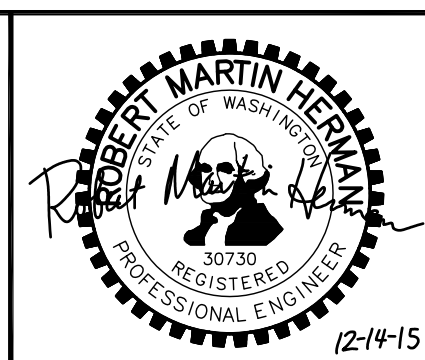
SPREAD FOOTING FOUNDATION DETAIL
(NOT TO SCALE)

NOTES

1. CLAMPING BOLTS SHALL BE TIGHTENED TO 50 FT-LBS MAX TORQUE. DO NOT OVERTIGHTEN.
2. SUPPLEMENTAL GROUNDING CONDUCTOR SHALL BE NON-INSULATED #4 AWG STRANDED COPPER, PROVIDE 3 FT. MIN. SLACK. CLAMP TO VERTICAL STEEL REINFORCING BAR WITH LISTED CONNECTOR SUITABLE FOR USE EMBEDDED IN CONCRETE.
3. EQUIPMENT GROUNDING CONDUCTOR SHALL ATTACH FROM GROUND ROD TO GROUNDING LUG WITH A FULL CIRCLE CRIMP-ON CONNECTOR (CRIMPED WITH A MANUFACTURER'S RECOMMENDED CRIMPER).

DRAWN	RMH				
DESIGNED	RMH				
CHECKED	12/14/15 RMH				
PROJ. ENGR.					
DRAWING FILE	RRFB_rev1.DWG				
DATE		REVISION		BY	APP'D

FOR:
REICHHARDT & EBE ENGINEERING, INC.
813 Metcalf Street
Sedro-Woolley, WA 98284



HTE HERMAN TRAFFIC ENGINEERING
15324 Southeast 133rd Court, Renton, Washington 98059
425-277-1740 tel. 425-277-5718 fax hte@comcast.net

CITY OF FERDALE	WASHINGTON	TS3
MAIN STREET/STERLING AVENUE		SHEET
RECTANGULAR RAPID FLASH BEACON DETAILS		OF
		SHEETS