

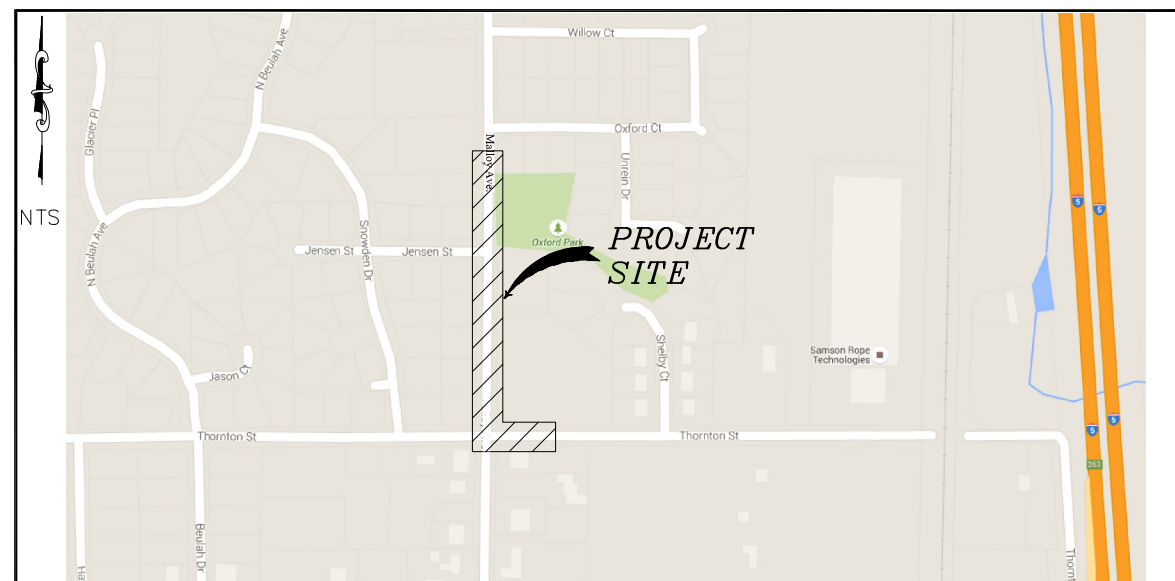
# MALLOY AVE. SANITARY SEWER PROJECT

## FERNDALE, WA

### CITY OF FERNDALE - PROJECT NO. SS2015-02

#### VICINITY MAP

PROJECT LOCATED IN SECTIONS 17 & 18, TOWNSHIP 39N, RANGE 2E, W.M.



#### PROJECT LOCATION



#### SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
1	COVER
2	LEGEND AND ABBREVIATIONS
3	EXISTING CONDITIONS, DEMO AND TESC PLAN
4	EXISTING CONDITIONS, DEMO AND TESC PLAN
5	TRAFFIC DETOUR PLAN
6	PLAN AND PROFILE - THORNTON
7	PLAN AND PROFILE - MALLOY (SOUTH)
8	PLAN AND PROFILE - MALLOY (NORTH)
9	CHANNELIZATION AND PAVING PLAN
10	CHANNELIZATION AND PAVING PLAN
11	DETAILS
12	DETAILS



**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

MALLOY AVENUE  
SANITARY SEWER PROJECT  
COVER

DWG 15009 COVER

JOB#  
15009

SCALE  
H: N/A V: N/A

DATE  
7/29/2015

SHEET  
1  
of 12

## ABBREVIATIONS


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

## NOTES

- FIELD WORK PERFORMED BY COMPASS POINT SURVEY GROUP, LYNDEN, WA. TOPOGRAPHIC SURVEY PERFORMED IN APRIL, 2015.
- HORIZONTAL DATUM: WASHINGTON STATE PLANE (NORTH) COORDINATES - NAD 83-2011  
VERTICAL DATUM: NAVD 88

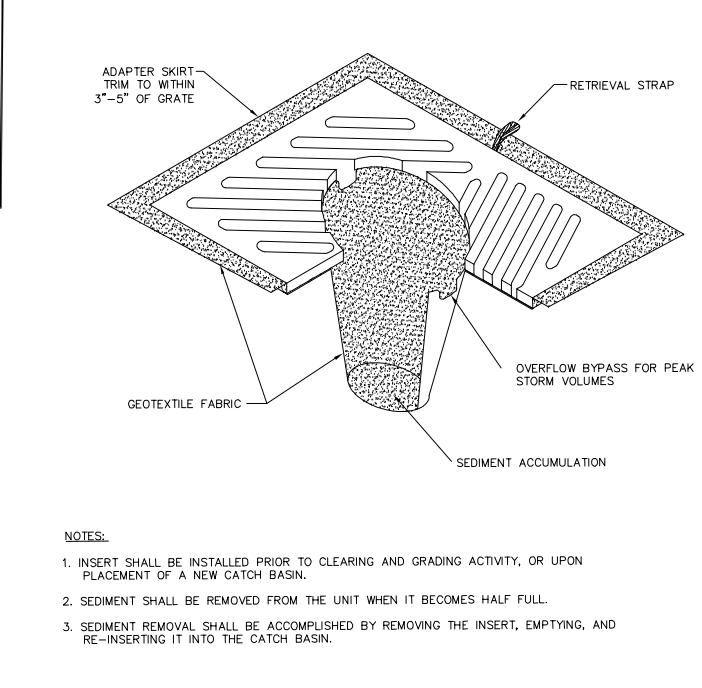
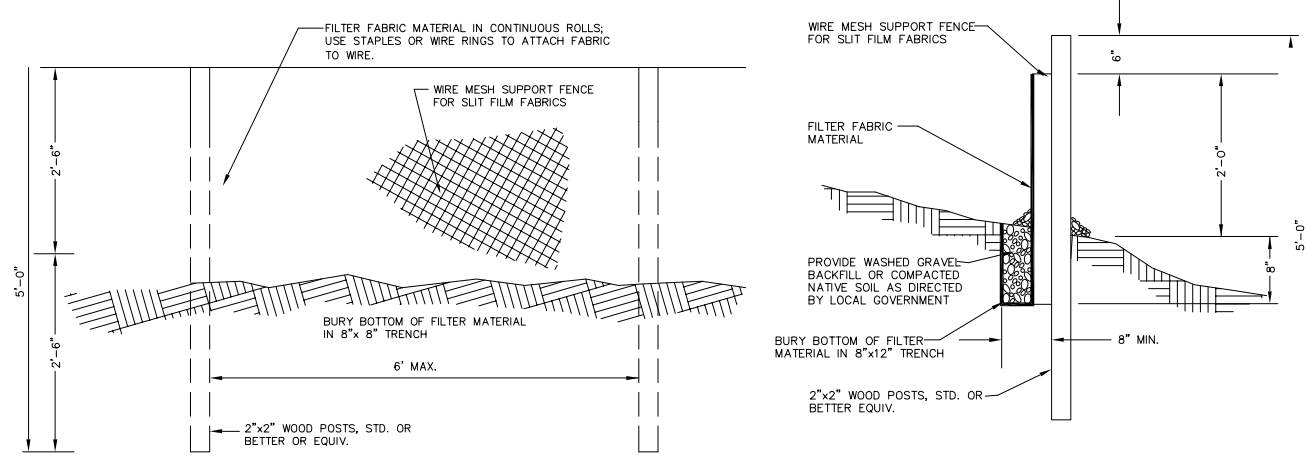
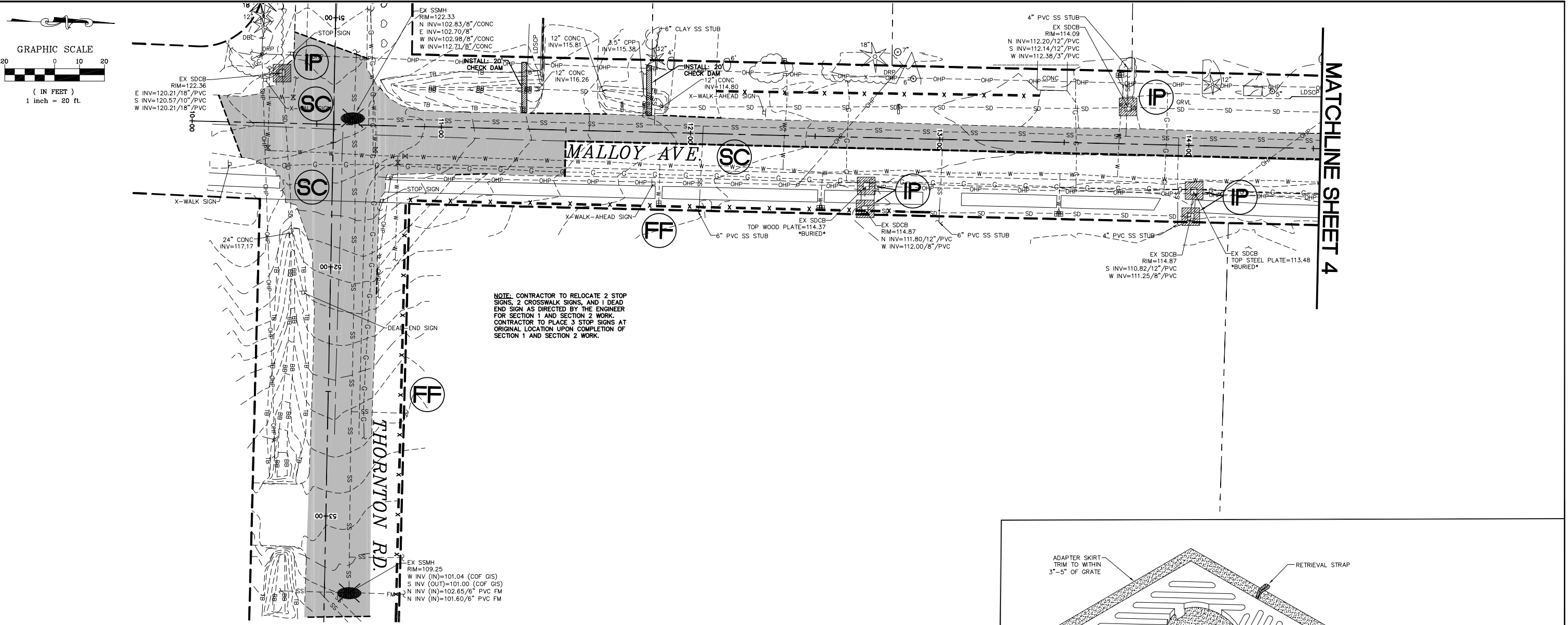
## LEGEND

EXISTING		PROPOSED	
--- TB --- TB	= EXISTING TOP OF BANK	--- TB --- TB	= PROPOSED TOP OF BANK
--- BB --- BB	= EXISTING BOTTOM OF BANK	--- BB --- BB	= PROPOSED BOTTOM OF BANK
.....	= EXISTING DITCH C	.....	= PROPOSED DITCH C
-----	= EXISTING GRADE BREAK	-----	= PROPOSED GRADE BREAK
----- 95 -----	= EXISTING MAJOR CONTOUR	----- 95 -----	= PROPOSED MAJOR CONTOUR
----- 95 -----	= EXISTING MINOR CONTOUR	----- 95 -----	= PROPOSED MINOR CONTOUR
----- X ----- X -----	= EXISTING GUARDRAIL	----- X ----- X -----	= PROPOSED GUARDRAIL
----- X ----- X -----	= EXISTING FENCE	----- X ----- X -----	= PROPOSED FENCE
-----	= EXISTING GRAVEL	-----	= PROPOSED GRAVEL
-----	= EXISTING WALL	-----	= PROPOSED WALL
///////	= EXISTING BUILDING	///////	= PROPOSED BUILDING
-----	= EXISTING PROPERTY BOUNDARY	-----	= PROPOSED PAVEMENT VALLEY
-----	= EXISTING RIGHT OF WAY	-----	= PROPOSED RIGHT OF WAY
-----	= EXISTING RIGHT OF WAY C	-----	= PROPOSED AUTOTURN
-----	= EXISTING EASEMENT	-----	= PROPOSED CONSTRUCTION EASEMENT
-----	= EXISTING ROAD C	-----	= PROPOSED ROAD C
-----	= EXISTING WETLANDS BOUNDARY	-----	= PROPOSED SAWCUT
-----	= EXISTING TRAFFIC STRIPING	-----	= PROPOSED TRAFFIC STRIPE
-----	= EXISTING EDGE OF PAVEMENT	-----	= PROPOSED ROAD EDGE OF PAVEMENT
-----	= EXISTING FLOWLINE	-----	= PROPOSED CURB AND GUTTER
-----	= EXISTING TOP BACK OF CURB	-----	= PROPOSED PATH
-----	= EXISTING SIDEWALK	-----	= PROPOSED SIDEWALK
---UGP---UGP---	= EXISTING POWER BURIED	PR	= PROPOSED POWER LINE
---OHP---OHP---	= EXISTING OVERHEAD POWER	-----	= PROPOSED ROCK WALL
---UGC---UGC---	= EXISTING COMMUNICATIONS BURIED	-----	= PROPOSED PARKING STRIPE
---OHC---OHC---	= EXISTING OVERHEAD COMMUNICATIONS	-----	= PROPOSED TRAFFIC SIGNAL CONDUCTOR
---FO---FO---	= EXISTING FIBER OPTICS BURIED	-----	= PROPOSED FIBER OPTICS
---TV---TV---	= EXISTING TV BURIED	-----	= PROPOSED SILT FENCE
---T---T---	= EXISTING TELEPHONE BURIED	-----	= PROPOSED CONDUIT
---C---C---	= EXISTING CONDUIT	-----	= PROPOSED HANDRAIL
---G---G---	= EXISTING GAS MAIN	-----	= PROPOSED IRRIGATION LINE
---W---W---	= EXISTING WATER MAIN	-----	= PROPOSED WATER MAIN
---IRR---IRR---	= EXISTING IRRIGATION LINE	-----	= PROPOSED SANITARY SEWER FORCE MAIN
---FM---FM---	= EXISTING SANITARY SEWER FORCE MAIN	-----	= PROPOSED SANITARY SEWER
---SS---SS---	= EXISTING SANITARY SEWER	-----	= PROPOSED STORM DRAIN
---SD---SD---	= EXISTING STORM DRAIN	-----	= PROPOSED CULVERT
---OHW---OHW---	= EXISTING ORDINARY HIGH WATER	-----	= PROPOSED TREE LINE
-----	= EXISTING CULVERT	-----	= PROPOSED CONC. SIDEWALK/DRIVEWAY
-----	= EXISTING TREE LINE	-----	= PROPOSED INFILTRATION TRENCH
-----	= EXISTING CONCRETE	-----	= PROPOSED INFILTRATION FILTER MEDIA
-----	= EXISTING RR TRACKS	-----	= PROPOSED GRIND
-----	= EXISTING SIGNAL POLE AND ARM W/ LUMINAIRE	-----	= PROPOSED DEMOLITION AREA
-----	= EXISTING STREET LIGHT ASSEMBLY	-----	= PROPOSED ASPHALT
-----	= EXISTING YARD LIGHT	-----	= PROPOSED RIGHT OF WAY TAKE
-----	= EXISTING GUY WIRE	-----	= PROPOSED STORM DRAIN INLET
-----	= EXISTING GAS METER	-----	= PROPOSED COUPLER
-----	= EXISTING GAS VALVE	-----	= PROPOSED WATER METER
-----	= EXISTING TRANSFORMER PAD	-----	= PROPOSED WATER VALVE
-----	= EXISTING POWER VAULT	-----	= PROPOSED STORM DRAIN CATCH BASIN TYPE II
-----	= EXISTING JBOX	-----	= PROPOSED SANITARY SEWER MANHOLE
-----	= EXISTING SOIL BORING LOCATION	-----	= PROPOSED STORM DRAIN CATCH BASIN TYPE I
-----	= EXISTING MAIL BOX	-----	= PROPOSED HYDRANT
-----	= EXISTING WATER SPIGOT	-----	= PROPOSED UTILITY POLE
-----	= EXISTING WATER BLOW OFF	-----	= PROPOSED JBOX (TYPE I, II, III)
-----	= EXISTING WATER METER	-----	= PROPOSED MONITORING WELL
-----	= EXISTING WATER VALVE	-----	= PROPOSED STORM CLEANOUT
-----	= EXISTING FIRE HYDRANT	-----	= PROPOSED SANITARY SEWER CLEAN OUT
-----	= EXISTING TRAFFIC SIGNAL VAULT	-----	= PROPOSED SIGN
-----	= EXISTING SEWER MANHOLE	-----	= PROPOSED ARROW
-----	= EXISTING STORM DRAIN CATCH BASIN TYPE I	-----	= PROPOSED TREE
-----	= 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	-----	

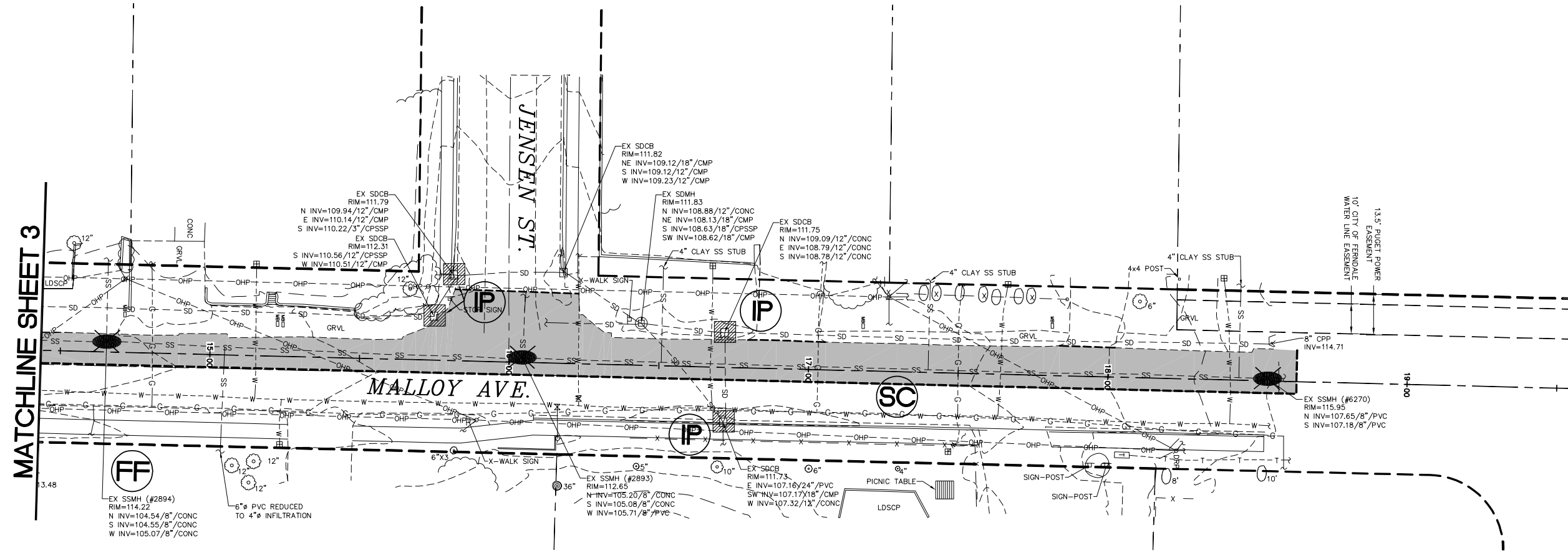
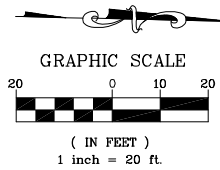
<b>BID SET</b>	DESIGNED BY LP DRAWN BY RWG CHECKED BY LP	 <b>Reichhardt &amp; Ebe</b> ENGINEERING INC P.O. Box 978   423 Front Street, Lynden, WA 98264 (360) 354-3687 813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1713	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DESCRIPTION	BY					CITY OF FERNDAL 2095 MAIN STREET FERNDAL, WA 98248	<b>MALLOY AVENUE</b> <b>SANITARY SEWER PROJECT</b> <b>LEGEND AND ABBREVIATIONS</b>	DWG 15009 COVER JOB# 15009 SCALE H: N/A V: N/A	DATE 7/29/2015 SHEET 2 of 12
NO.	DATE	DESCRIPTION	BY												



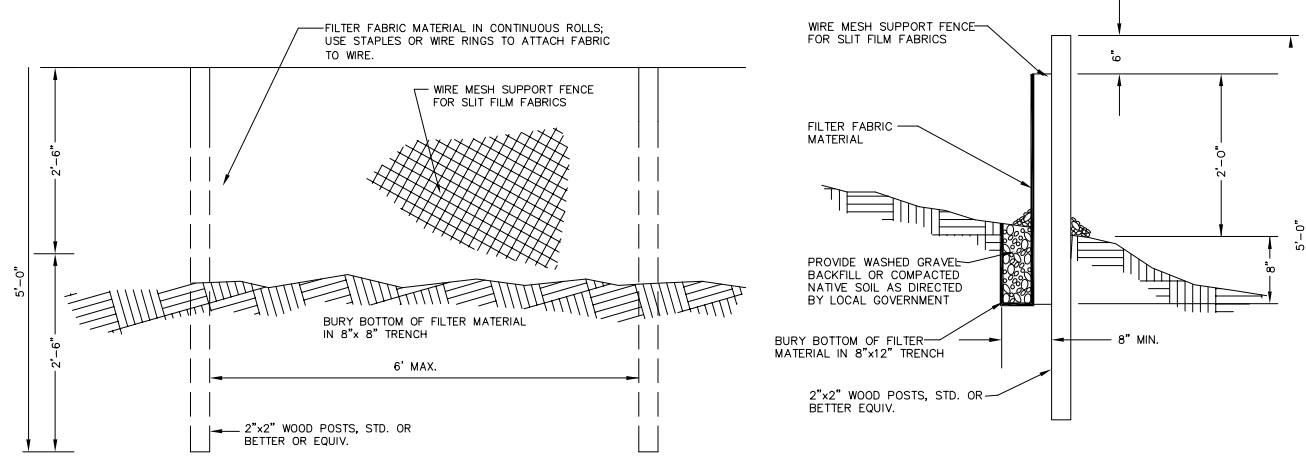
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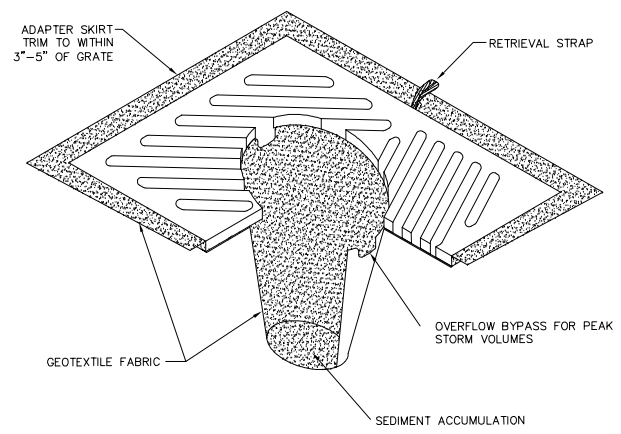
<b>BID SET</b>	DESIGNED BY LP	<b>R&amp;E</b> Reichhardt & Ebe ENGINEERING INC P.O. Box 978   423 Front Street, Lynden, WA 98264 (360) 354-3687 813 Metcalf Street, Sedro-Woolley, WA 98284 (360) 855-1713	NO.	DATE	DESCRIPTION	BY	CITY OF FERNDALE 2095 MAIN STREET FERNDALE, WA 98248	<b>MALLOY AVENUE</b> SANITARY SEWER PROJECT EXISTING CONDITIONS, DEMO AND TESC PLAN	DWG 15009 PROBBASE		DATE 7/29/2015
	DRAWN BY RWG								CHECKED BY LP	JOB# 15009	SCALE H: T=20' v: N/A



- TESC PLAN LEGEND**
- WASHINGTON STATE DEPT. OF ECOLOGY  
BEST MANAGEMENT PRACTICES (BMP)  
REF.: STORMWATER MANAGEMENT MANUAL  
FOR WESTERN WASHINGTON, 2012
- FF** BMP C103 AND C233: CLEARING LIMITS AND FILTER FABRIC FENCE - SEE DETAIL SHEET
  - SC** BMP C105 AND C140: STREET CLEANING
  - P** BMP C220 INLET PROTECTION - PLACE SEDIMENT FILTER AROUND OR OVER CATCH BASINS
- DEMOLITION PLAN LEGEND**
- PROPOSED CONCRETE/ASPHALT REMOVAL
  - SAWOUT FULL DEPTH OF PAVEMENT
  - REMOVE EX SSMH



**FILTER FABRIC FENCE DETAIL**  
NTS



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

**CATCH BASIN INSERT**  
NTS



**BID SET**

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CHECKED BY LP

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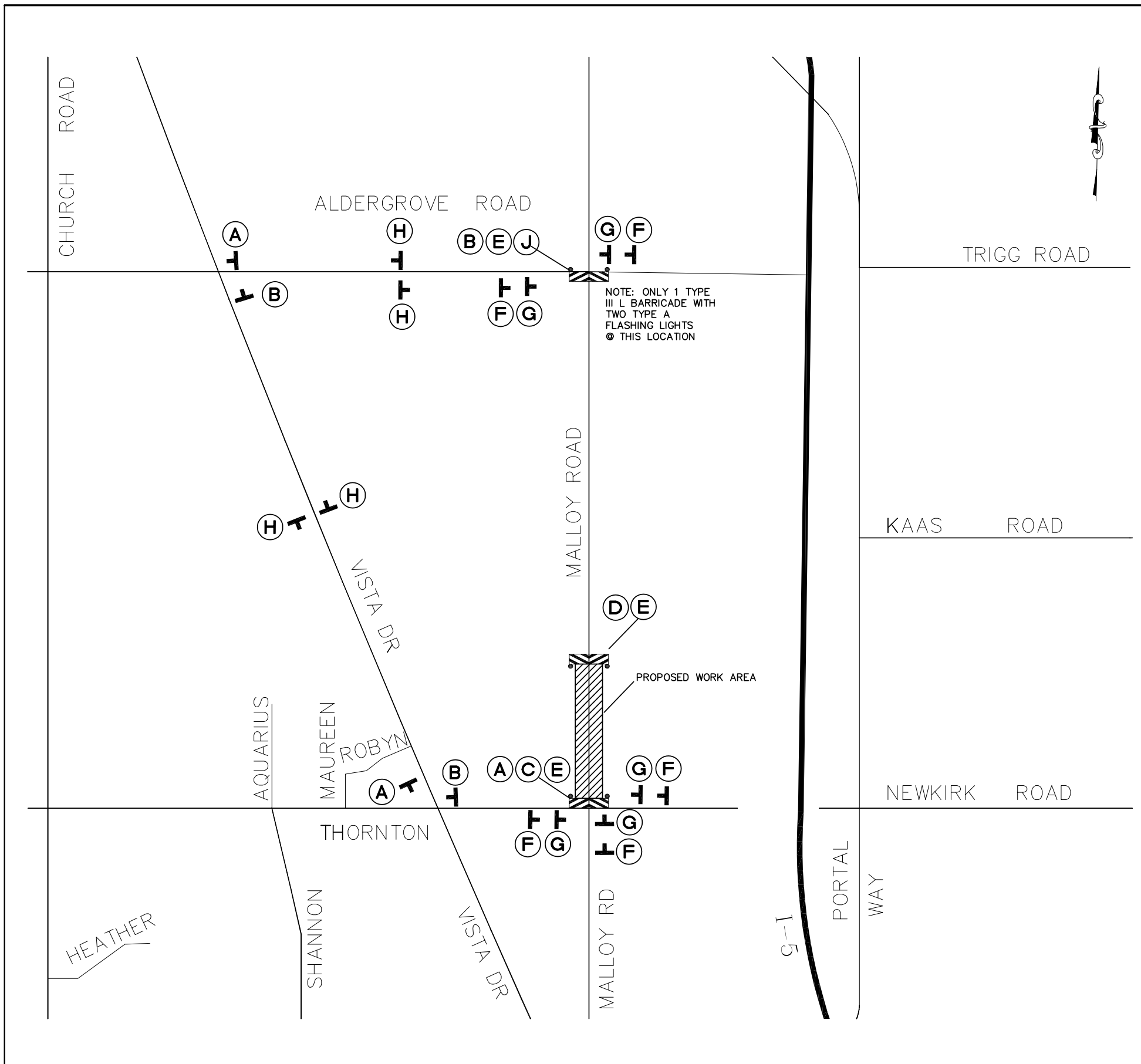
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CITY OF FERNDALE  
2095 MAIN STREET  
FERNDALE, WA 98248

**MALLOY AVENUE**  
SANITARY SEWER PROJECT  
EXISTING CONDITIONS, DEMO AND TESC PLAN

DWG 15009 PROBBASE  
JOB# 15009  
SCALE H: T=20' V: N/A

DATE 7/29/2015  
SHEET 4 of 12



### LEGEND

- = SIGN (SHOWN FACING LEFT)
- = PROPOSED WORK AREA
- (A) M4-10L
- (B) M4-10R
- (C) R 11-2
- (D) R 11-4
- (E) TWO TYPE III R AND TYPE III L BARRICADE WITH 2 TYPE A FLASHING WARNING LIGHTS
- (F) W 20-3
- (G) W20-2
- (H) M4-8
- (I) M6-4
- (J) R 11-3

SIGN SPACING = X (1)		
RURAL ROADS	45/55 MPH	500'±
URBAN ARTERIALS & RURAL ROADS	35/40 MPH	350'±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200'± (2)
URBAN STREETS	25 MPH OR LESS	100'± (2)

ALL SIGNS ARE BLACK ON ORANGE UNLESS DESIGNATED OTHERWISE

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.  
 (2) THIS SIGN SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



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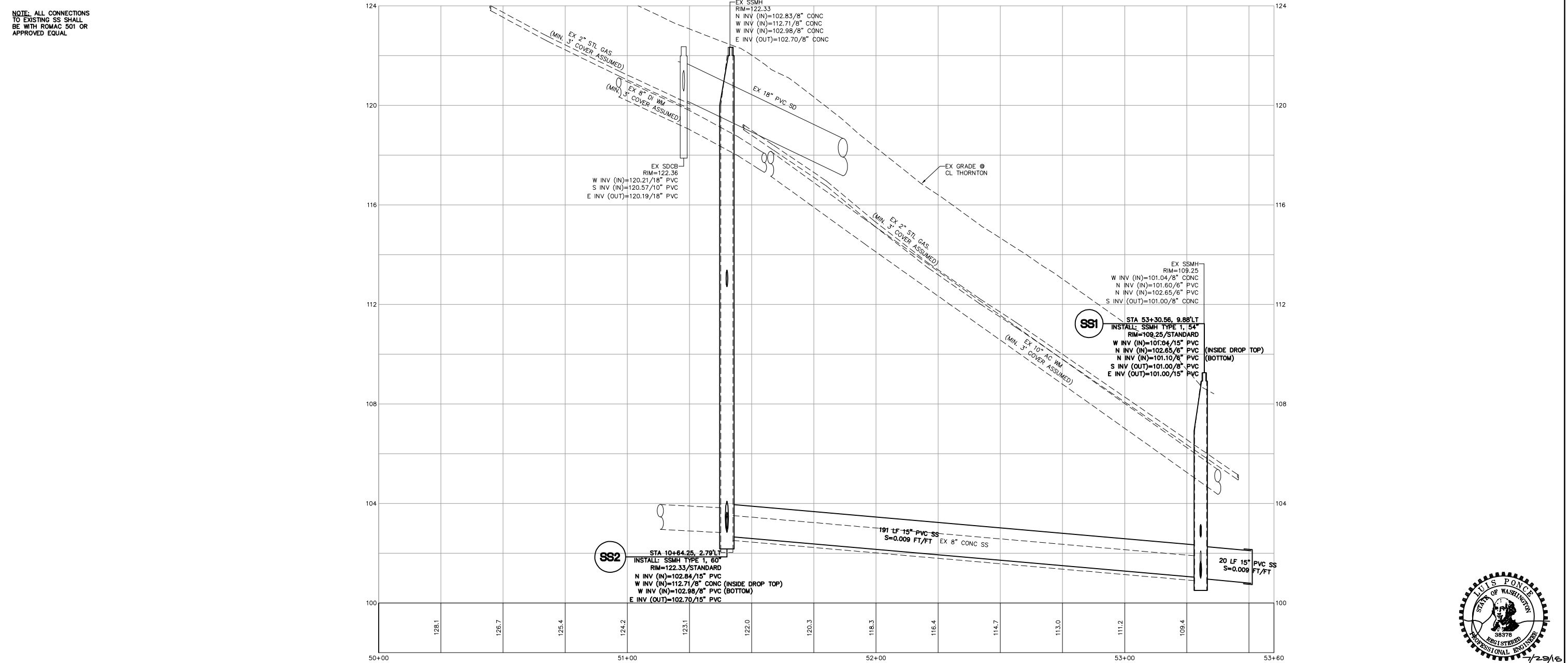
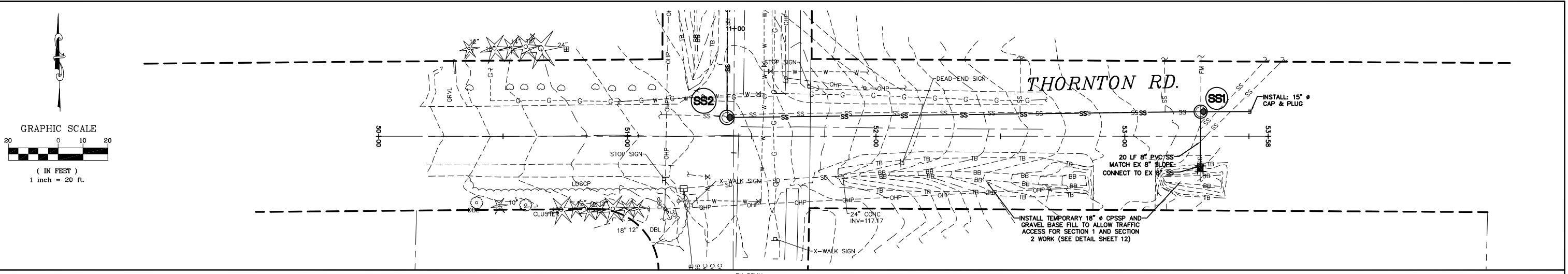
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CITY OF FERDALE  
 2095 MAIN STREET  
 FERDALE, WA 98248

**MALLOY AVENUE  
 SANITARY SEWER PROJECT  
 TRAFFIC DETOUR PLAN**

DWG # 15009 PROBBASE  
 JOB # 15009  
 SCALE H: N/A V: N/A

DATE 7/29/2015  
 SHEET 5 of 12



**BID SET**

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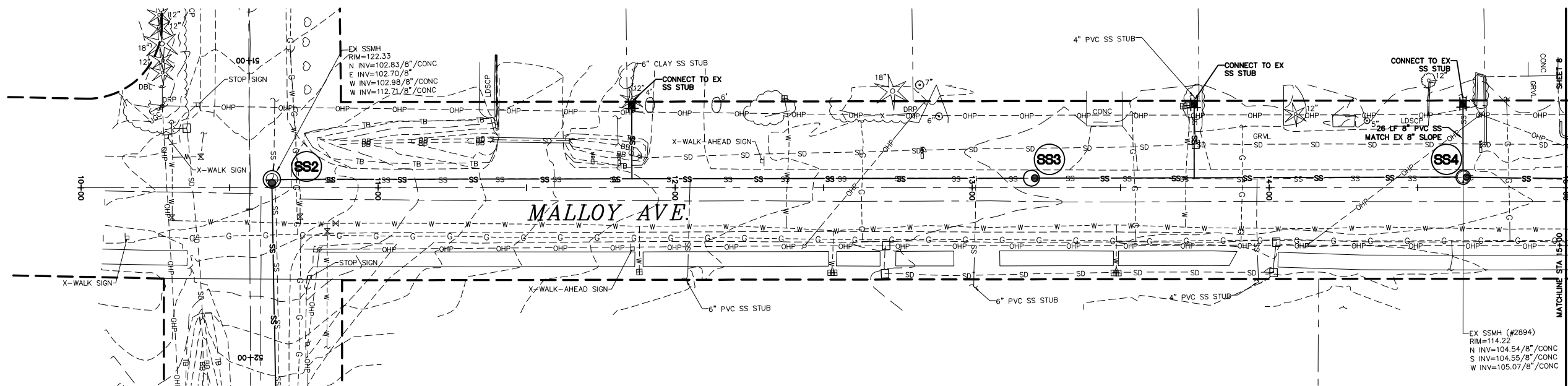
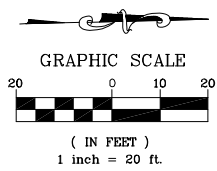
CITY OF FERDALE  
2095 MAIN STREET  
FERDALE, WA 98248

**MALLOY AVENUE  
SANITARY SEWER PROJECT  
PLAN AND PROFILE - THORNTON**

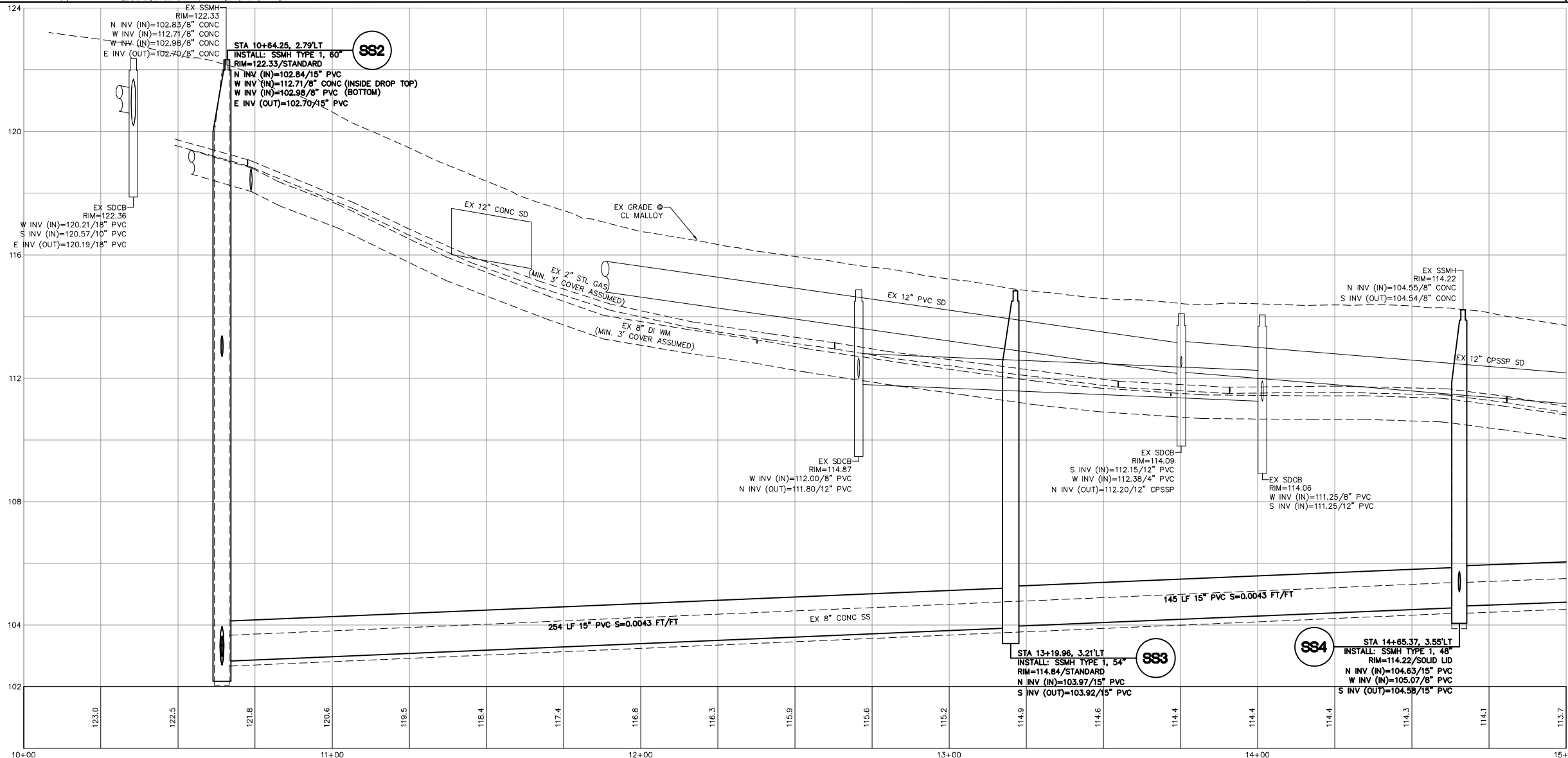
DWG # 15009 PROBBASE  
JOB # 15009

SCALE  
H: 1"=20' V: 1"=2'

DATE 7/29/2015  
SHEET 6 of 12



NOTE: ALL CONNECTIONS TO EXISTING SS SHALL BE WITH ROMAC 501 OR APPROVED EQUAL.



**BID SET**

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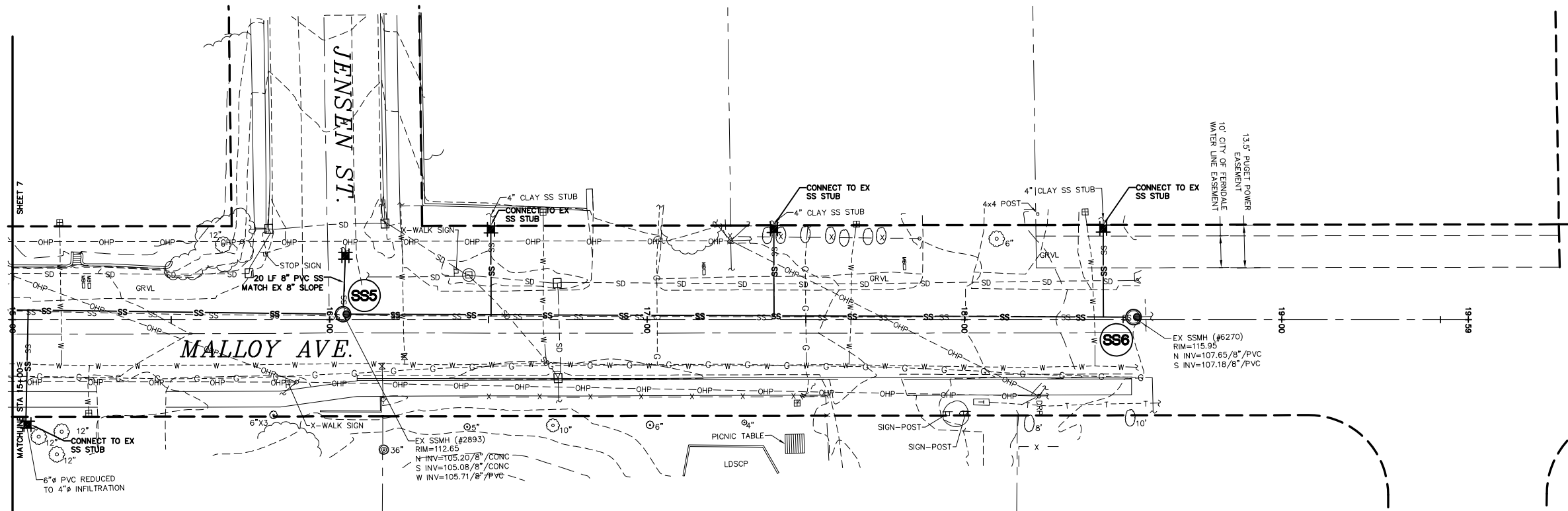
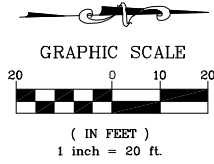
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FERNDALE, WA 98248

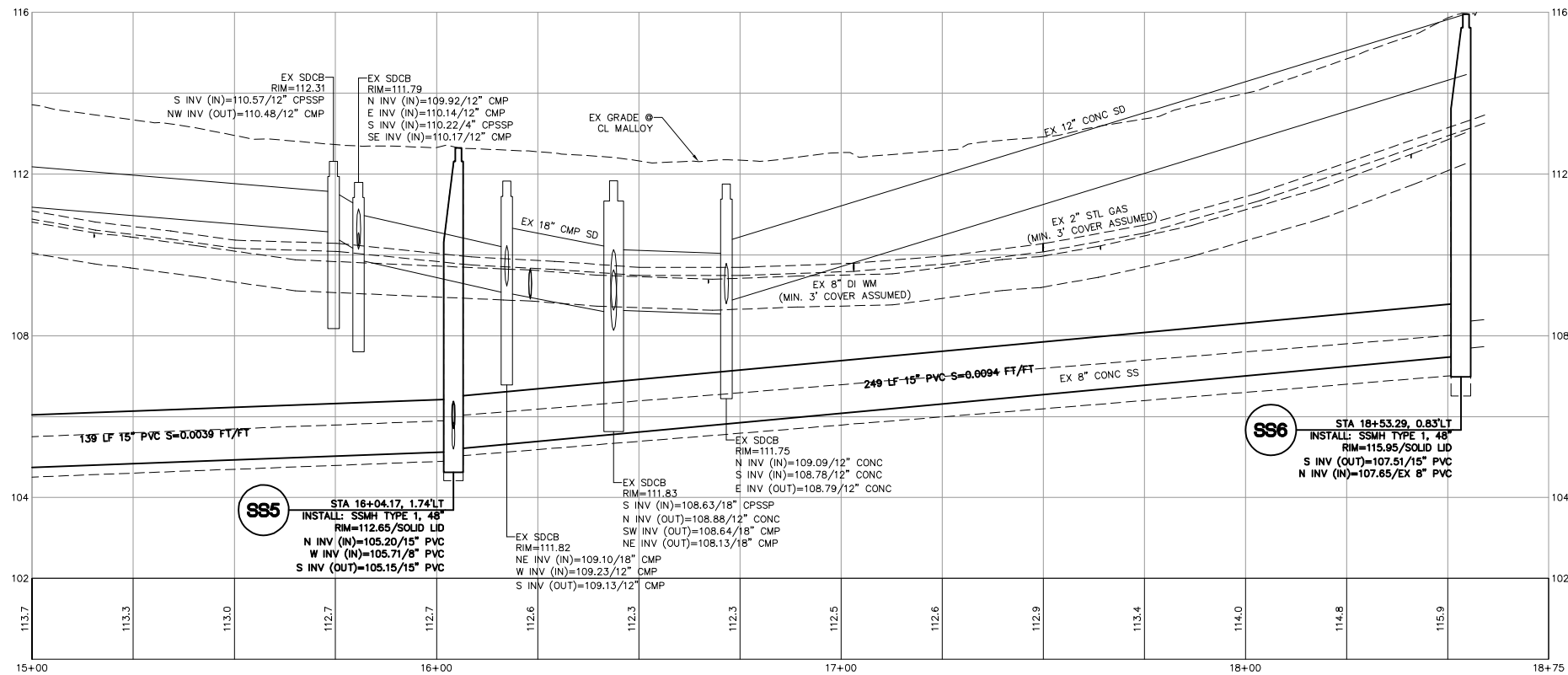
**MALLOY AVENUE**  
SANITARY SEWER PROJECT  
PLAN AND PROFILE - MALLOY (SOUTH)

DWG # 15009 PROBBASE  
JOB# 15009  
SCALE H: 1"=20' V: 1"=2'

DATE 7/29/2015  
SHEET 7 of 12



NOTE: ALL CONNECTIONS TO EXISTING SS SHALL BE WITH ROMAC 501 OR APPROVED EQUAL.



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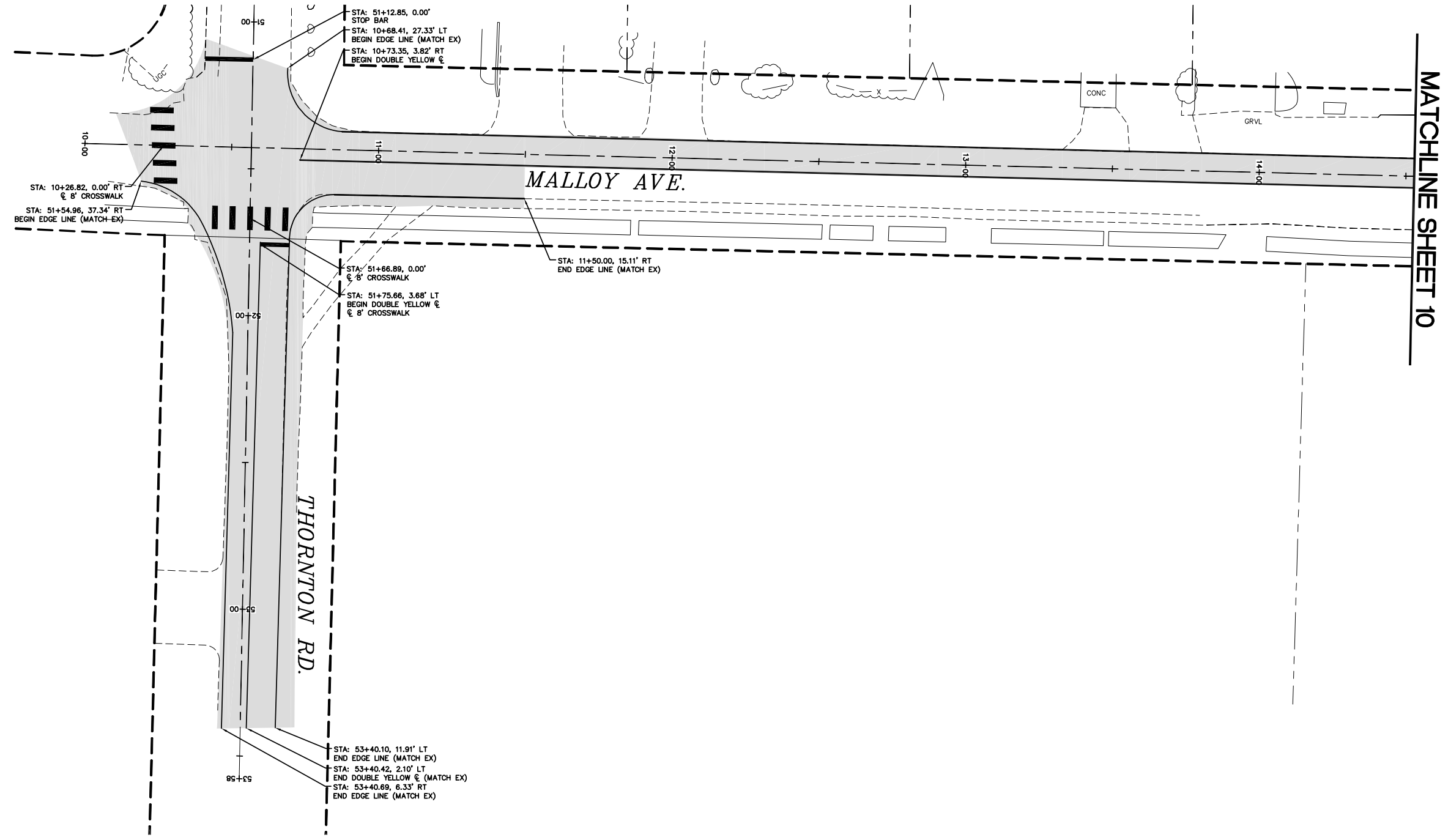
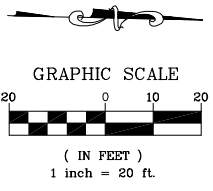
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MALLOY AVENUE  
SANITARY SEWER PROJECT  
PLAN AND PROFILE - MALLOY (NORTH)

DWG 15009 PROBBASE  
JOB# 15009  
SCALE H: 1"=20' V: 1"=2'

DATE 7/29/2015  
SHEET 8 of 12





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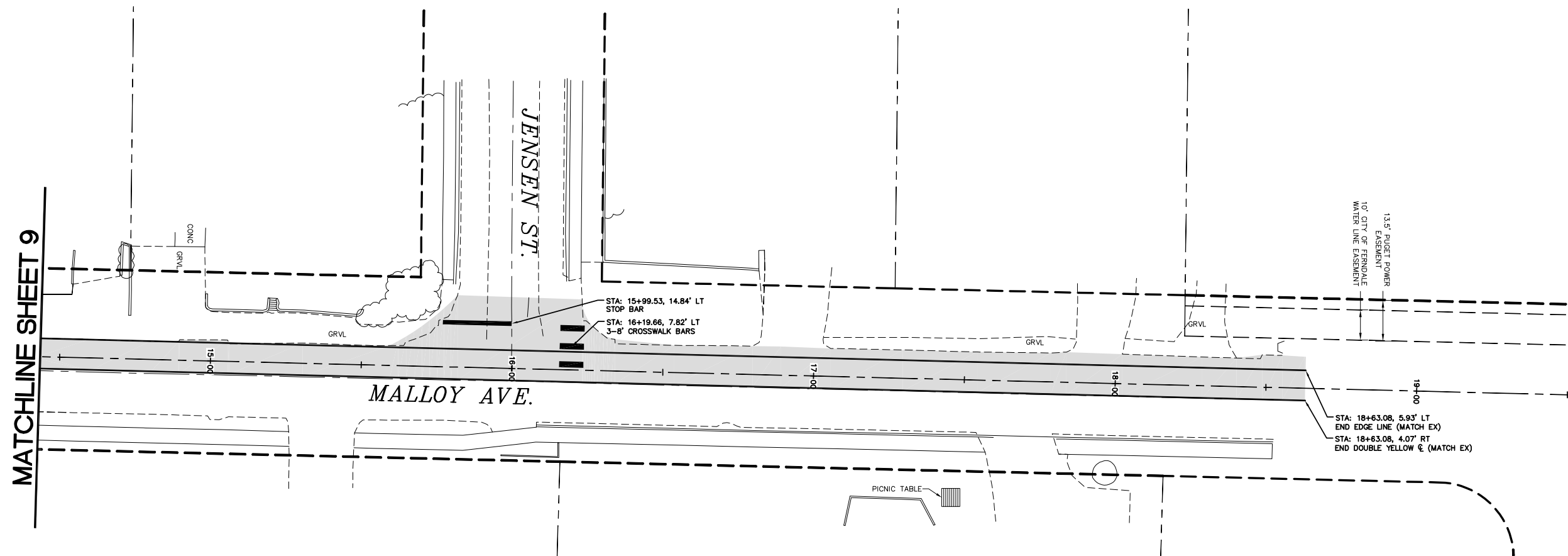
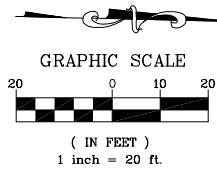
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NO.	DATE	DESCRIPTION	BY

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FERDALE, WA 98248

**MALLOY AVENUE  
SANITARY SEWER PROJECT  
CHANNELIZATION AND PAVING PLAN**

DWG 15009 PROBASE		DATE 7/29/2015
JOB# 15009	SCALE H: 1"=20' V: N/A	SHEET 9 of 12

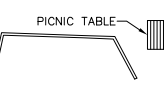


MATCHLINE SHEET 9

13.5' PUGET POWER  
EASEMENT  
10' CITY OF FERNDAL  
WATER LINE EASEMENT

STA: 15+99.53, 14.84' LT  
STOP BAR  
STA: 16+19.66, 7.82' LT  
3'-5' CROSSWALK BARS

STA: 18+63.08, 5.93' LT  
END EDGE LINE (MATCH EX)  
STA: 18+63.08, 4.07' RT  
END DOUBLE YELLOW & (MATCH EX)



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

NO.	DATE	DESCRIPTION	BY

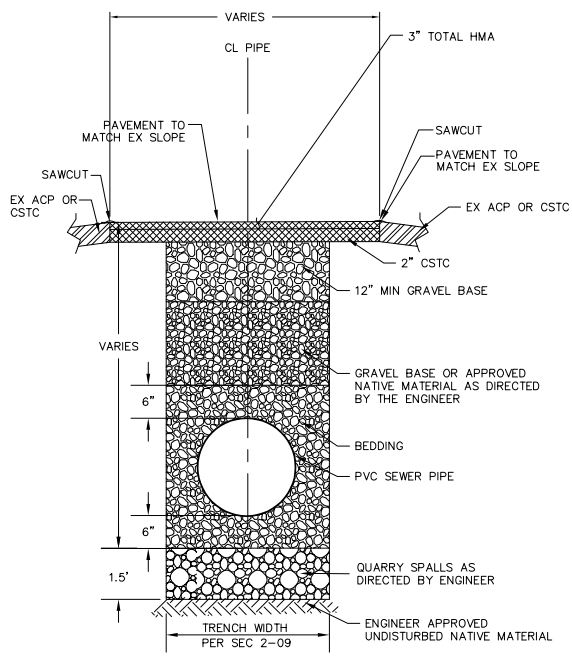
CITY OF FERNDAL  
2095 MAIN STREET  
FERNDAL, WA 98248

**MALLOY AVENUE**  
SANITARY SEWER PROJECT  
CHANNELIZATION AND PAVING PLAN

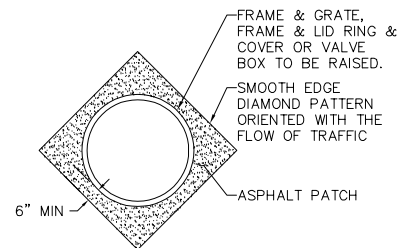
DWG 15009 PROBASE  
JOB# 15009

SCALE  
H: 1"=20' V: N/A

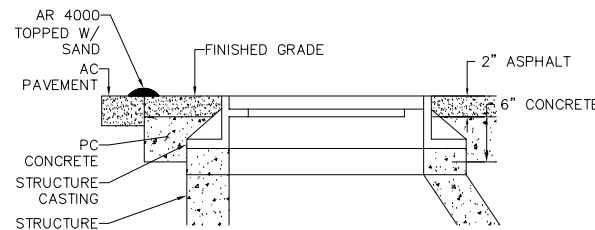
DATE 7/29/2015  
SHEET 10  
of 12



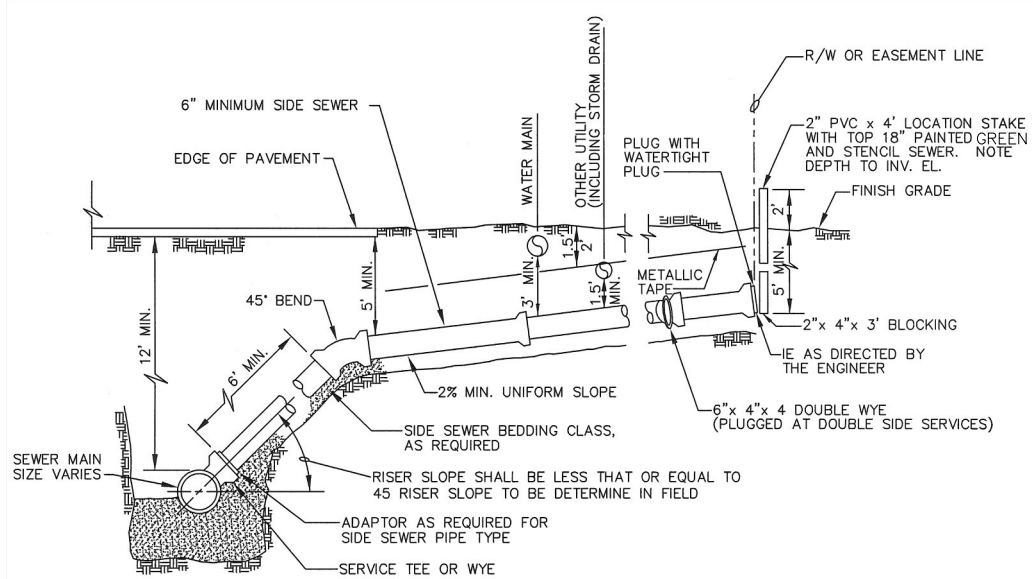
**TYPICAL TRENCH SECTION  
ASPHALT CONCRETE PAVEMENT SECTION**  
NTS



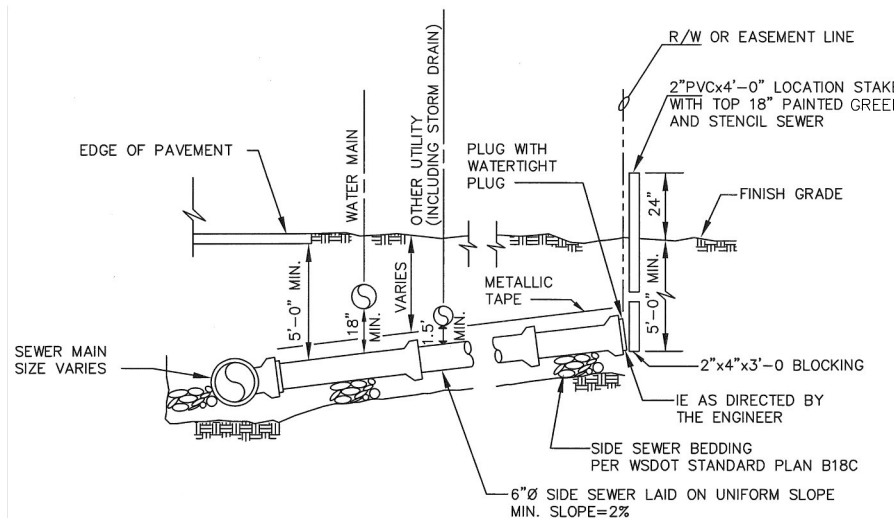
- NOTES:**  
ALL FRAMES, COVERS & VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADE AFTER THE FINAL LIFT OF PAVING HAS BEEN COMPLETED. THE FOLLOWING PROCEDURE SHALL BE USED:
1. CUT THE ASPHALT IN A DIAMOND AROUND THE STRUCTURE CASTING TO BE ADJUSTED.
  2. REMOVE THE FILL MATERIAL WITHIN THE CUT PAVEMENT AREA TO 8 INCHES MIN. BELOW FINISH GRADE.
  3. PLACE THE CASTING AT FINISH GRADE.
  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.



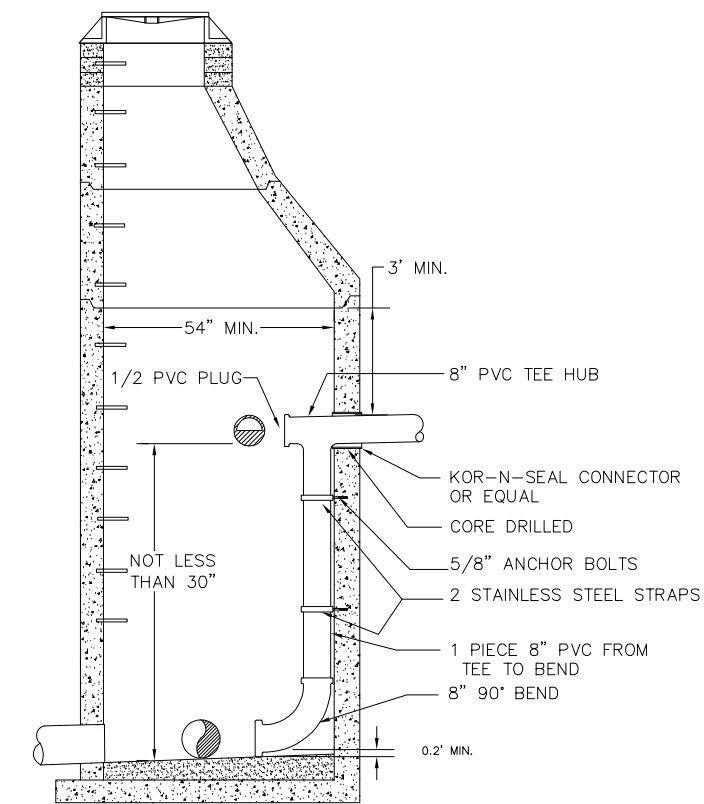
**ADJUSTING CASINGS TO  
FINISHED GRADE**  
NTS



**DEEP MAIN SIDE SEWER  
INSTALLATION**  
NTS



**15\"/>**



- NOTES:**
1. DROP TEE TO BE INSTALLED MINIMUM OF 3' BELOW CONE SECTION.
  2. INSIDE DROP MANHOLE SHALL BE INSTALLED ONLY WHERE APPROVED BY THE CITY.
  3. SIZE OF MANHOLE WILL INCREASE WITH LARGER DIAMETER PIPE AND SHALL BE APPROVED BY THE ENGINEER.
  4. CHANNEL TO OUTLET.

**INSIDE DROP SEWER  
MANHOLE CONNECTION**  
NTS



**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 FERNDAL  
2095 MAIN STREET  
FERNDAL, WA 98248

MALLOY AVENUE  
SANITARY SEWER PROJECT  
DETAILS

DWG 15009 PROBASE  
JOB# 15009  
SCALE H: N/A V: N/A

DATE 7/29/2015  
SHEET 11 of 12

