

# STERLING SEWER PROJECT

## (MAIN TO WASHINGTON)

### CITY OF FERNDALE

#### PROJECT NO. SS2013-04

#### VICINITY MAP



#### SHEET INDEX

- 001 COVER AND VICINITY MAP
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- 005 DEMOLITION AND TESC PLANS
- 006 SANITARY SEWER PLAN AND PROFILE
- 007 DETAILS AND TYPICAL TRENCH SECTION



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DRAWN BY  
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**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

STERLING SEWER PROJECT  
(MAIN TO WASHINGTON)  
FERNDALE, WA

DWG COVER AND VICINITY MAP		DATE
JOB#	SCALE	SHEET
13042	H: N/A    V: N/A	001

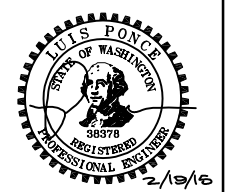
# LEGEND

EXISTING	
---OHW---	EXISTING ORDINARY HIGH WATER
---BB---	EXISTING TOE OF BANK
---OH---	EXISTING OVERHEAD POWER
=====	EXISTING CONCRETE
---95---	EXISTING MAJOR CONTOUR
---95---	EXISTING MINOR CONTOUR
-----X-----	EXISTING CULVERT
---X---	EXISTING DITCH
---X---	EXISTING FENCE
---FO---	EXISTING FIBER OPTICS LINE
---G---	EXISTING GAS MAIN
---G---	EXISTING GUARDRAIL
-----	EXISTING GRAVEL
-----	EXISTING PROPERTY BOUNDARY
---PR---	EXISTING POWER BURIED
-----	EXISTING ROAD
-----	EXISTING EDGE OF PAVEMENT
-----	EXISTING WALL
-----	EXISTING RIGHT OF WAY
-----	EXISTING TREE LINE
---SD---	EXISTING STORM DRAIN
---TS---	EXISTING TRAFFIC SIGNAL CONDUCTOR
---SS---	EXISTING SANITARY SEWER
-----	EXISTING TRAFFIC STRIPING
-----	EXISTING PARKING STRIPING
---TB---	EXISTING TOP OF BANK
---T---	EXISTING TELEPHONE LINE
---OT---	EXISTING OVERHEAD TELEPHONE
---TV---	EXISTING TV LINE
---W---	EXISTING WATER MAIN
-----	EXISTING SIDEWALK
-----	EXISTING WETLANDS BOUNDARY
-----	EXISTING EASEMENT
-----	EXISTING GRADE BREAK
---FM---	EXISTING SANITARY SEWER FORCE MAIN
-----	EXISTING FLOWLINE
---C---	EXISTING CONDUIT
---UD---	EXISTING UNDERDRAIN
-----	EXISTING BUILDING
-----	EXISTING CONCRETE
-----	EXISTING RR TRACKS
-----	EXISTING SIGNAL POLE AND ARM W/ LUMINAIRE
-----	EXISTING STREET LIGHT
-----	EXISTING GUY WIRE
-----	EXISTING GAS METER
-----	EXISTING TRANSFORMER PAD
-----	EXISTING POWER VAULT
-----	EXISTING JBOX
-----	EXISTING SOIL BORING LOCATION
-----	EXISTING MAIL BOX
-----	EXISTING WATER SPIGOT
-----	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 TREE
-----	EXISTING VEGETATION

PROPOSED	
---BB---	PROPOSED TOE OF BANK
-----	PROPOSED SAWCUT
---SD---	PROPOSED FIELD STORM DRAIN
---95---	PROPOSED MAJOR CONTOUR
---95---	PROPOSED MINOR CONTOUR
-----	PROPOSED PAVEMENT VALLEY
---X---	PROPOSED DITCH
---X---	PROPOSED FENCE
---FO---	PROPOSED FIBER OPTICS
---G---	PROPOSED HANDRAIL
---G---	PROPOSED GUARDRAIL
-----	PROPOSED GRAVEL
-----	PROPOSED PATH
-----	PROPOSED AUTOTURN
-----	PROPOSED ROAD
-----	PROPOSED ROAD EDGE OF PAVEMENT
-----	PROPOSED ROCK WALL
-----	PROPOSED RIGHT OF WAY
-----	PROPOSED TREE LINE
---SD---	PROPOSED STORM DRAIN
---TS---	PROPOSED TRAFFIC SIGNAL CONDUCTOR
---SS---	PROPOSED SANITARY SEWER
-----	PROPOSED TRAFFIC STRIPE
-----	PROPOSED PARKING STRIPE
---TB---	PROPOSED TOP OF BANK
---T---	PROPOSED BACK OF CURB
-----	PROPOSED ROAD FACE OF CURB
-----	PROPOSED ROAD LIP OF GUTTER
---W---	PROPOSED WATER MAIN
-----	PROPOSED SIDEWALK
---X---	PROPOSED SILT FENCE
-----	PROPOSED CONSTRUCTION EASEMENT
-----	PROPOSED GRADE BREAK
---FM---	PROPOSED SANITARY SEWER FORCE MAIN
---UD---	PROPOSED UNDERDRAIN
---C---	PROPOSED CONDUIT
-----	PROPOSED BUILDING
-----	PROPOSED BUILDING
-----	PROPOSED CONC. SIDEWALK/DRIVEWAY
-----	PROPOSED INFILTRATION TRENCH
-----	PROPOSED INFILTRATION FILTER MEDIA
-----	PROPOSED GRIND
-----	PROPOSED DEMOLITION AREA
-----	PROPOSED ASPHALT APRON
-----	PROPOSED RIGHT OF WAY TAKE
-----	PROPOSED STORM DRAIN INLET
-----	PROPOSED COUPLER
-----	PROPOSED WATER METER
-----	PROPOSED WATER VALVE
-----	PROPOSED HYDRANT
-----	PROPOSED SANITARY SEWER MANHOLE
-----	PROPOSED SANITARY SEWER MANHOLE
-----	PROPOSED STORM DRAIN CATCH BASIN TYPE I
-----	PROPOSED STORM DRAIN CATCH BASIN TYPE II
-----	PROPOSED UTILITY POLE
-----	PROPOSED MONITORING WELL
-----	PROPOSED STORM CLEANOUT
-----	PROPOSED SANITARY SEWER CLEAN OUT
-----	PROPOSED SIGN
-----	FLOW ARROW
-----	PROPOSED TREE

# ABBREVIATIONS

AC	= ASBESTOS CEMENT	FL	= FLOW LINE	N	= NORTH	SCH	= SCHEDULE
ASPH	= ASPHALT	FF	= FINISHED FLOOR	OC	= ON CENTER	S	= SOUTH
BLDG	= BUILDING	FG	= FINISHED GRADE	PVMT	= PAVEMENT	STD	= STANDARD
CATV	= CABLE TELEVISION	FT/FT	= FEET PER FOOT	PED	= PEDESTAL	SP	= STANDARD PLAN
CL	= CLASS, CENTERLINE	F&C	= FRAME AND COVER	PCC	= POINT OF COMPOUND CURVATURE	STA	= STATION
COMP	= COMPACTED	F&G	= FRAME AND GRATE	PC	= POINT OF CURVATURE	SDCB	= STORM DRAIN CATCH BASIN
CONC	= CONCRETE	IW	= INJECTION WELL	PRC	= POINT OF REVERSE CURVE	SDMH	= STORM DRAIN MANHOLE
C & G	= CURB & GUTTER	IE, INV	= INVERT ELEVATION	PT	= POINT OF TANGENCY	TEL	= TELEPHONE
CPDP	= CORRUGATED POLYETHYLENE DRAIN PIPE	L	= LENGTH	POC	= POINT ON CURVE	TL	= TRAFFIC LOOP
Ø	= DIAMETER	LF	= LINEAR FEET	PVC	= POLYVINYL CHLORIDE	TYP	= TYPICAL
DI	= DUCTILE IRON	LOC	= LOCATION	PCC	= PORTLAND CEMENT CONCRETE	UP	= UTILITY POLE
E	= EAST	MAX	= MAXIMUM	POSS	= POSSIBLE	VL	= VAULT
EOP, EP	= EDGE OF PAVEMENT	MPOC	= MID-POINT ON CURVE	PROP	= PROPOSED	WSDOT	= WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
EX, EXIST	= EXISTING	MIN	= MINIMUM	ROW	= RIGHT OF WAY	W	= WEST
IR	= EXISTING IRRIGATION	MOD	= MODIFIED	R&C	= RING AND COVER	WM	= WATER METER
SN	= EXISTING SIGN	MW	= MONITORING WELL	SSMH	= SANITARY SEWER MANHOLE		
FT	= FEET	MON	= MONUMENT				



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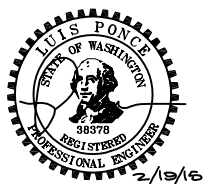
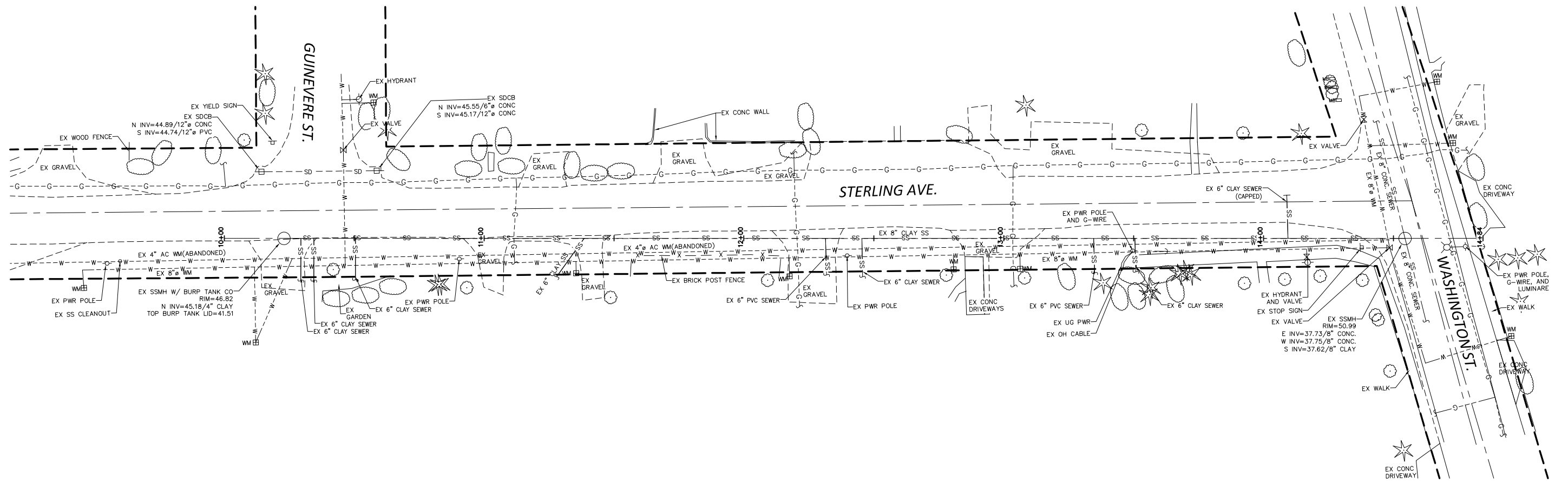
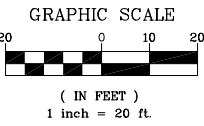
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2095 MAIN STREET  
FERNDALE, WA 98248

STERLING SEWER PROJECT  
(MAIN TO WASHINGTON)  
FERNDALE, WA

DWG LEGEND AND ABBREVIATIONS			DATE
JOB#	SCALE	SHEET	2/19/15
13042	H: N/A V: N/A	002	



2/19/16

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CITY OF FERDALE  
2095 MAIN STREET  
FERDALE, WA 98248

**STERLING SEWER PROJECT**  
(MAIN TO WASHINGTON)  
FERDALE, WA

DWG EXISTING CONDITIONS

DATE  
2/19/2015

JOB#

SCALE

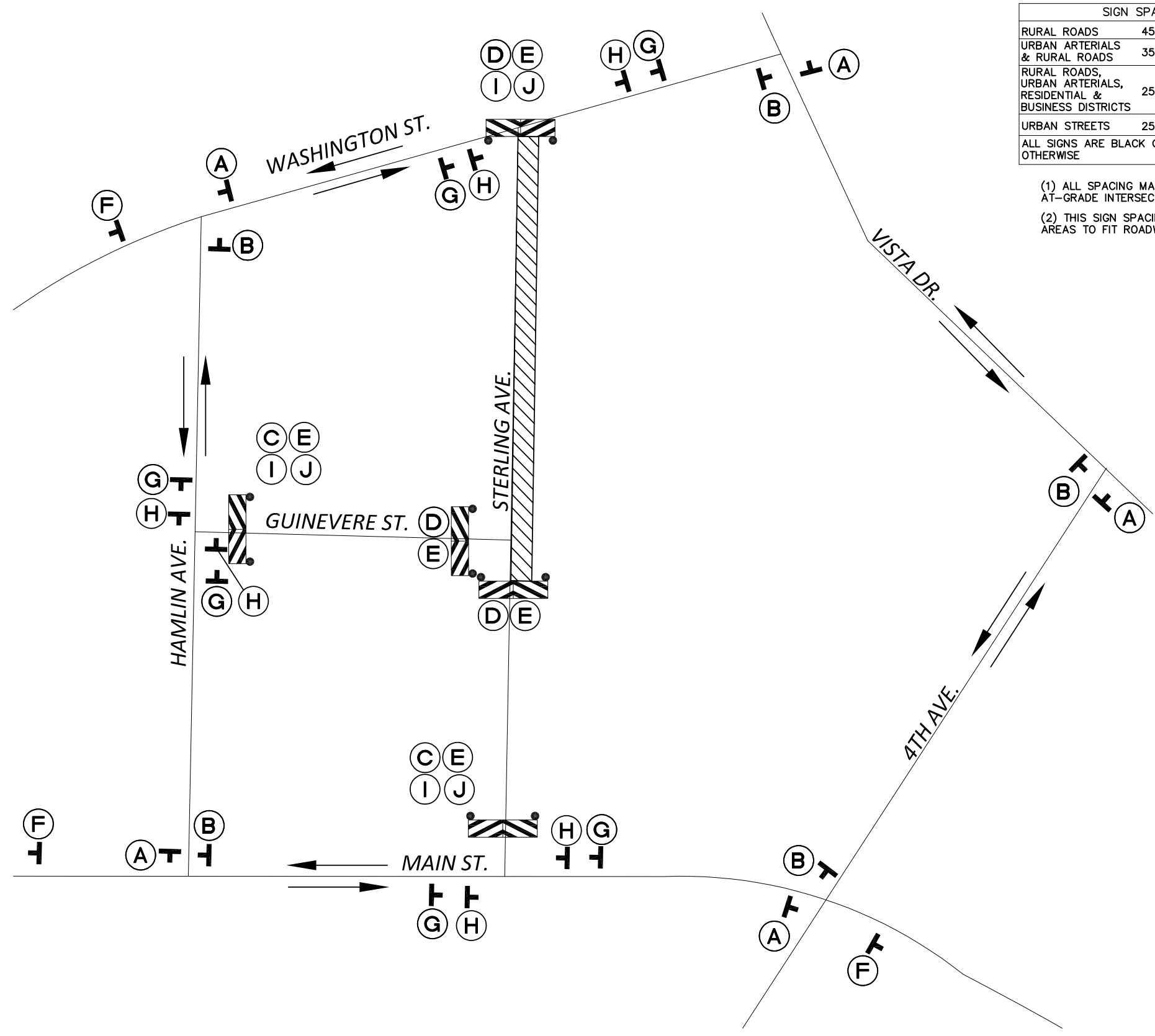
H: 1"=20'

SHEET

13042

V: N/A

003



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)

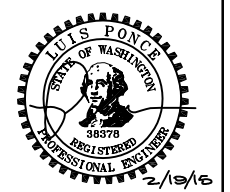
ALL SIGNS ARE BLACK ON ORANGE UNLESS DESIGNATED OTHERWISE

(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.

**LEGEND**

- = DIRECTION OF TRAFFIC
- = SIGN (SHOWN FACING LEFT)
- = PROPOSED WORK AREA

- A M4-10L
- B M4-10R
- C R 11-3
- D R 11-4
- E TYPE III R AND TYPE III L, BARRICADE WITH 2 TYPE A FLASHING WARNING LIGHTS
- F M4-8A
- G W 20-3
- H W20-2
- I M4-8
- J M6-4



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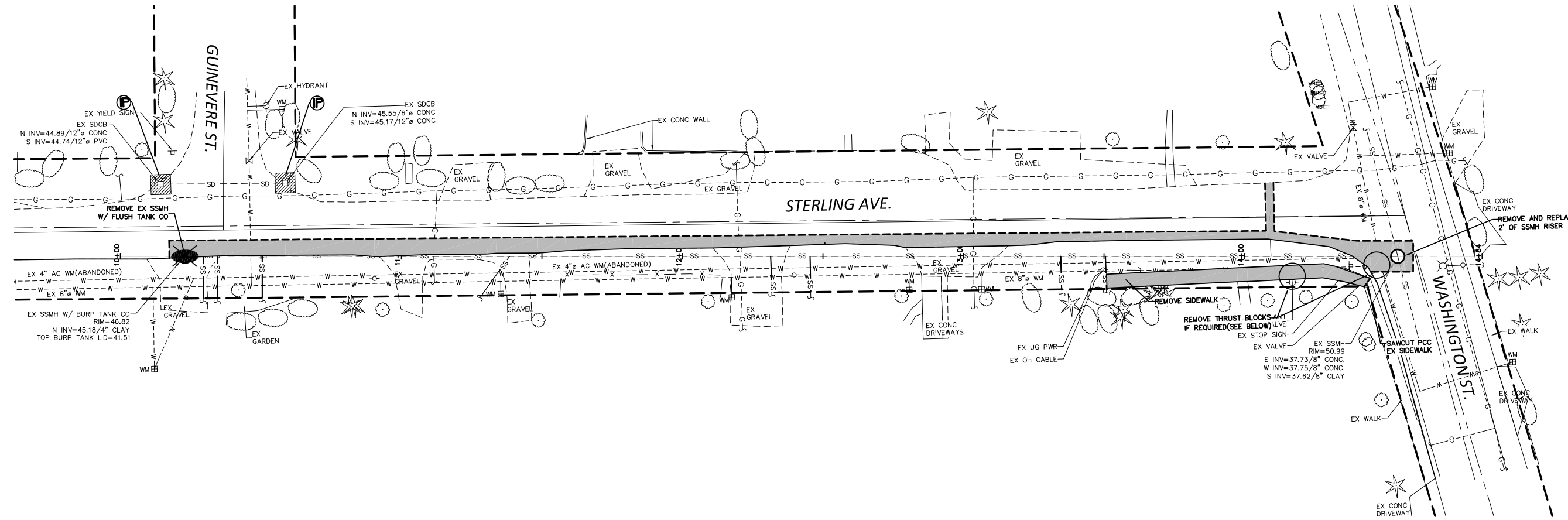
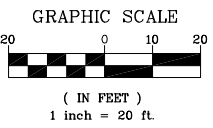
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FERDALE, WA 98248

**STERLING SEWER PROJECT**  
(MAIN TO WASHINGTON)  
FERDALE, WA


DWG TRAFFIC CONTROL PLAN		DATE
JOB#		SHEET
13042	SCALE H: N/A V: N/A	2/19/16 004



**DEMOLITION PLAN LEGEND**

-  PROPOSED CONCRETE/ASPHALT REMOVAL
-  SAWCUT FULL DEPTH OF PAVEMENT
-  REMOVE EX SSMH

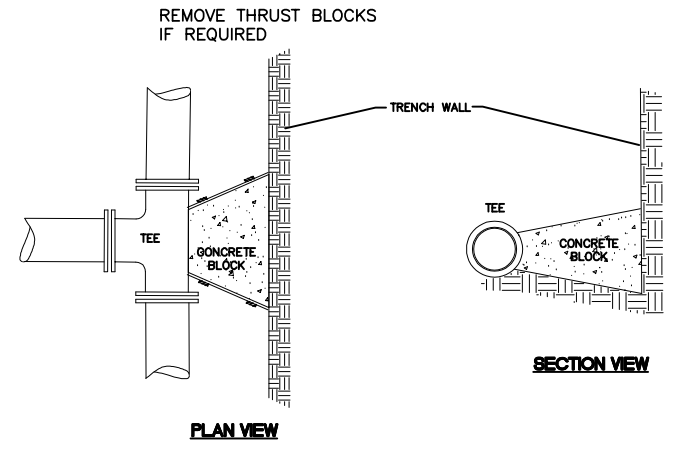
**TESC PLAN LEGEND**

- WASHINGTON STATE DEPT. OF ECOLOGY  
BEST MANAGEMENT PRACTICES (BMP)  
REF.: STORMWATER MANAGEMENT MANUAL  
FOR WESTERN WASHINGTON, 2012
- SYMBOL**
-  BMP C220 INLET PROTECTION – PLACE SEDIMENT FILTER AROUND OR OVER CATCH BASINS

**GENERAL NOTES:**

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
2. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND FERTILIZED FOR EROSION CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR SLOPE EROSION UNTIL VEGETATION IS FIRMLY ESTABLISHED.
3. CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE ENGINEER OF ANY PROPOSED CHANGES IN PLAN PRIOR TO CONSTRUCTION OF THAT CHANGE. CONTRACTOR SHALL KEEP RECORD OF DEVIATIONS AND FORWARD TO THE ENGINEER.
4. CONTRACTOR WILL WATER SURFACES OFTEN ENOUGH TO ABATE DUST AS APPROVED BY THE ENGINEER. WATERING WILL INCLUDE WEEKENDS AND HOLIDAYS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SEDIMENTATION AND EROSION CONTROL MEASURES AS SHOWN.
6. THE CONSTRUCTED EROSION CONTROL AND SEDIMENTATION PLAN SHALL BE APPROVED BY THE ENGINEER PRIOR TO PERFORMING ANY SITE GRADING OR CLEARING.
7. MAINTENANCE AND OPERATION OF THE EROSION CONTROL AND SEDIMENTATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SEDIMENTATION AND EROSION CONTROL MEASURES.
8. ANY VEGETATION NOT IN THE CONSTRUCTION AREA SHALL BE LEFT UNDISTURBED.
9. ALL CLEARING LIMITS SHALL BE VISIBLY MARKED PRIOR TO CLEARING.
10. ALL STORM DRAIN FACILITIES WITHIN THE PROJECT BOUNDARY, OR WHICH ARE IMPACTED BY THE PROJECT ARE TO BE CLEARED OF SEDIMENT AND DEBRIS PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
11. THIS PLAN REPRESENTS THE MINIMUM REQUIREMENTS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MAY BE REQUIRED BY THE ENGINEER AS ARE FOUND NECESSARY.
12. THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE INSTALLED PRIOR TO ALL OTHER SITE CONSTRUCTION.

**DOMESTIC WATER THRUST BLOCK**



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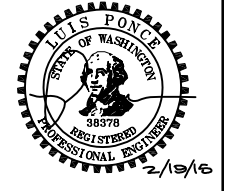
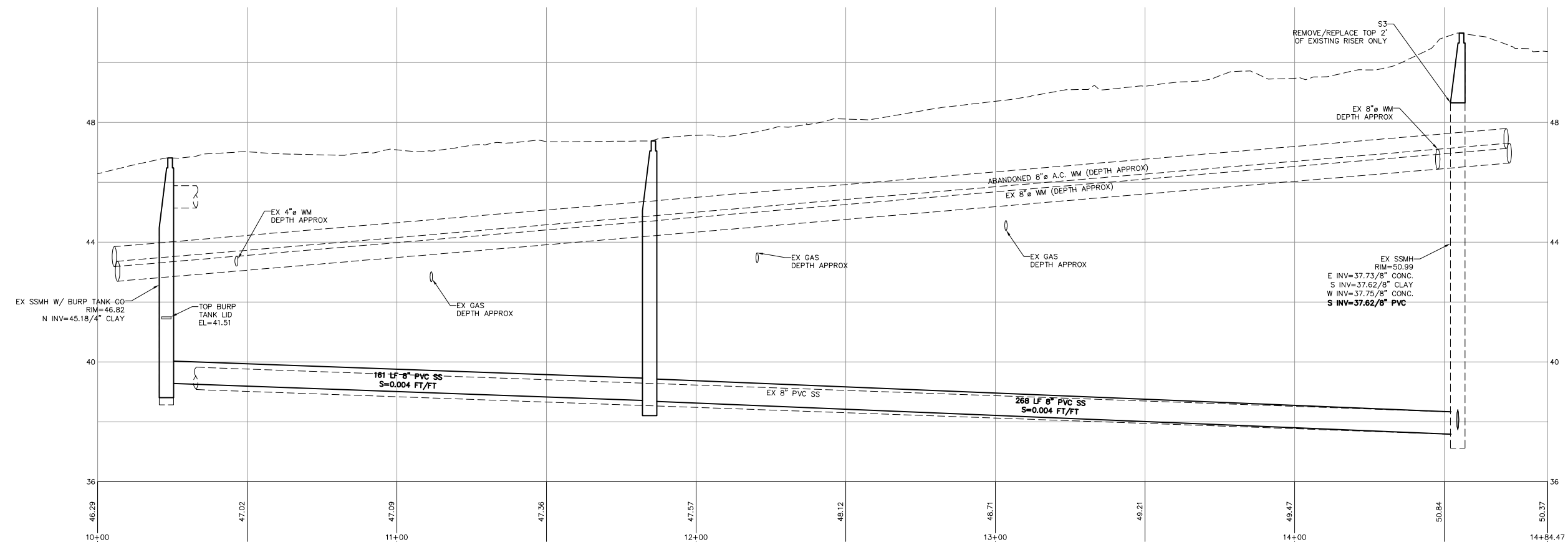
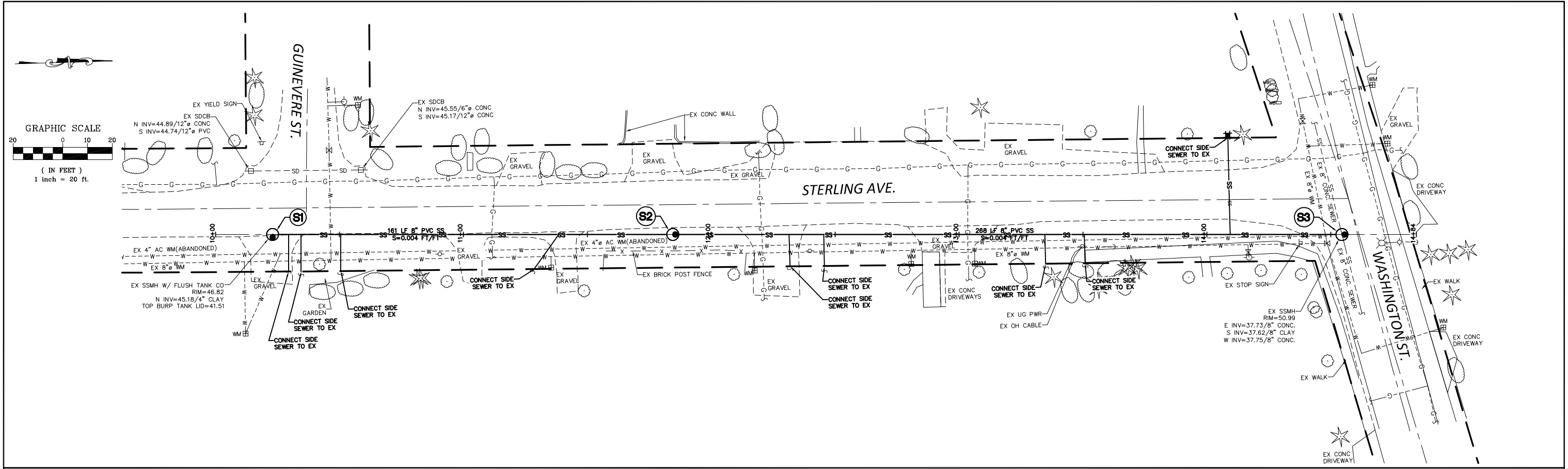
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2095 MAIN STREET  
FERDALE, WA 98248

**STERLING SEWER PROJECT**  
(MAIN TO WASHINGTON)  
FERDALE, WA

DWG DEMOLITION AND TESC PLAN		DATE 2/19/2015
JOB# 13042	SCALE H: 1"=20' V: N/A	SHEET 005



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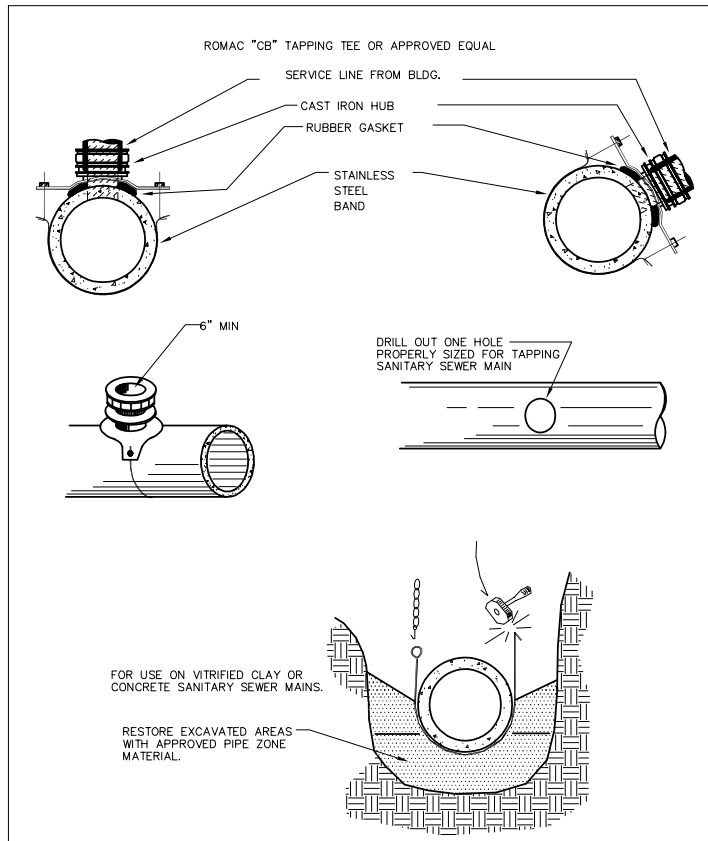
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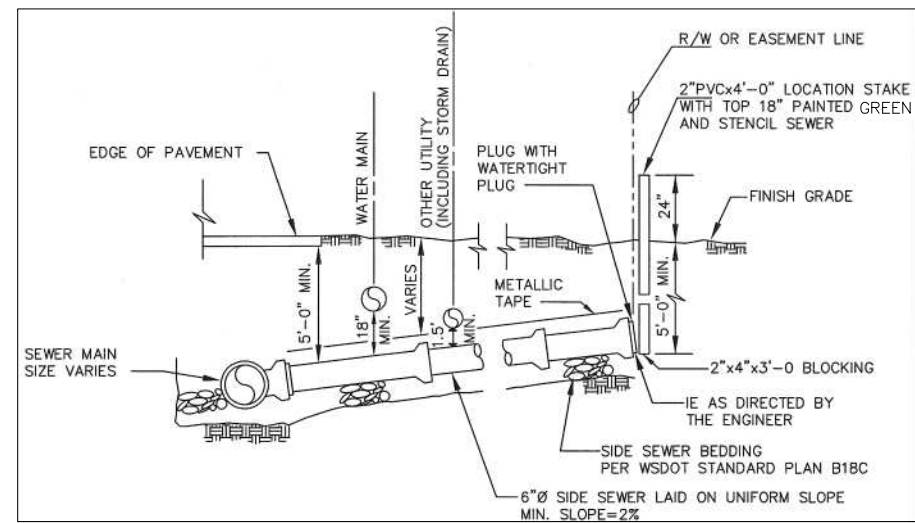
STERLING SEWER PROJECT  
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DWG SANITARY SEWER PLAN AND PROFILE		DATE
JOB#		SHEET
13042	SCALE H: 1"=20' V: 1"=2'	2/19/15 006

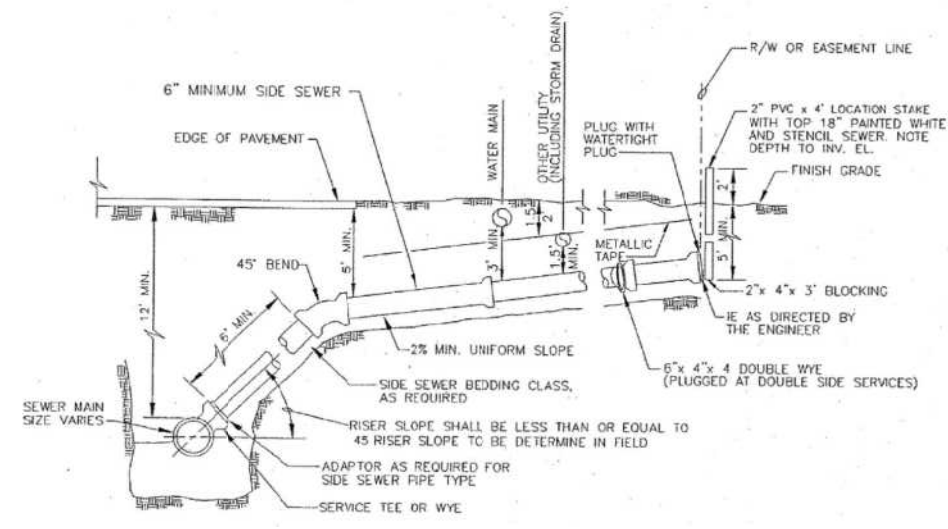


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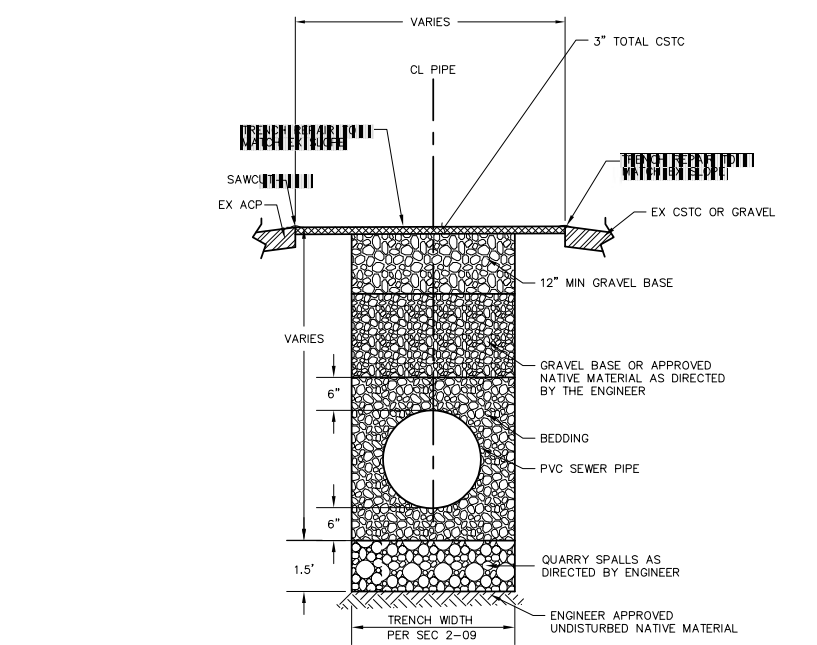
APPROVED	CITY OF FERNDAL SANITARY SEWER BANDED TAPPING TEE	DRAWING SS-12
Public Works Director	Date	



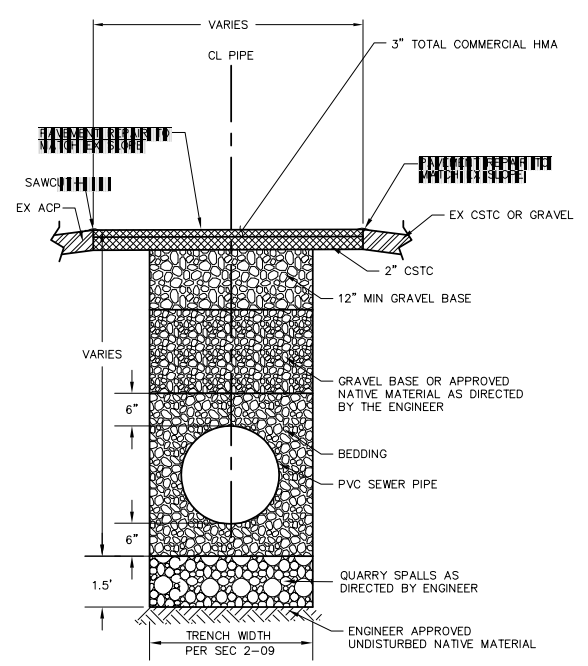
**15" AND SMALLER SIDE SEWER INSTALLATION**  
NTS



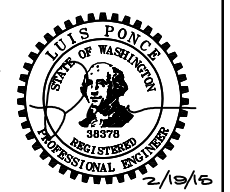
**DEEP MAIN SIDE SEWER INSTALLATION**  
NTS



**TYPICAL TRENCH SECTION  
CRUSHED SURFACING TOP COURSE SECTION**  
NTS



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



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DWG	DETAILS AND TYPICAL TRENCH SECTION	DATE	2/19/2015
JOB#	13042	SCALE	H: N/A V: N/A
SHEET	007		