

VISTA PAVEMENT PRESERVATION AND UTILITY IMPROVEMENTS

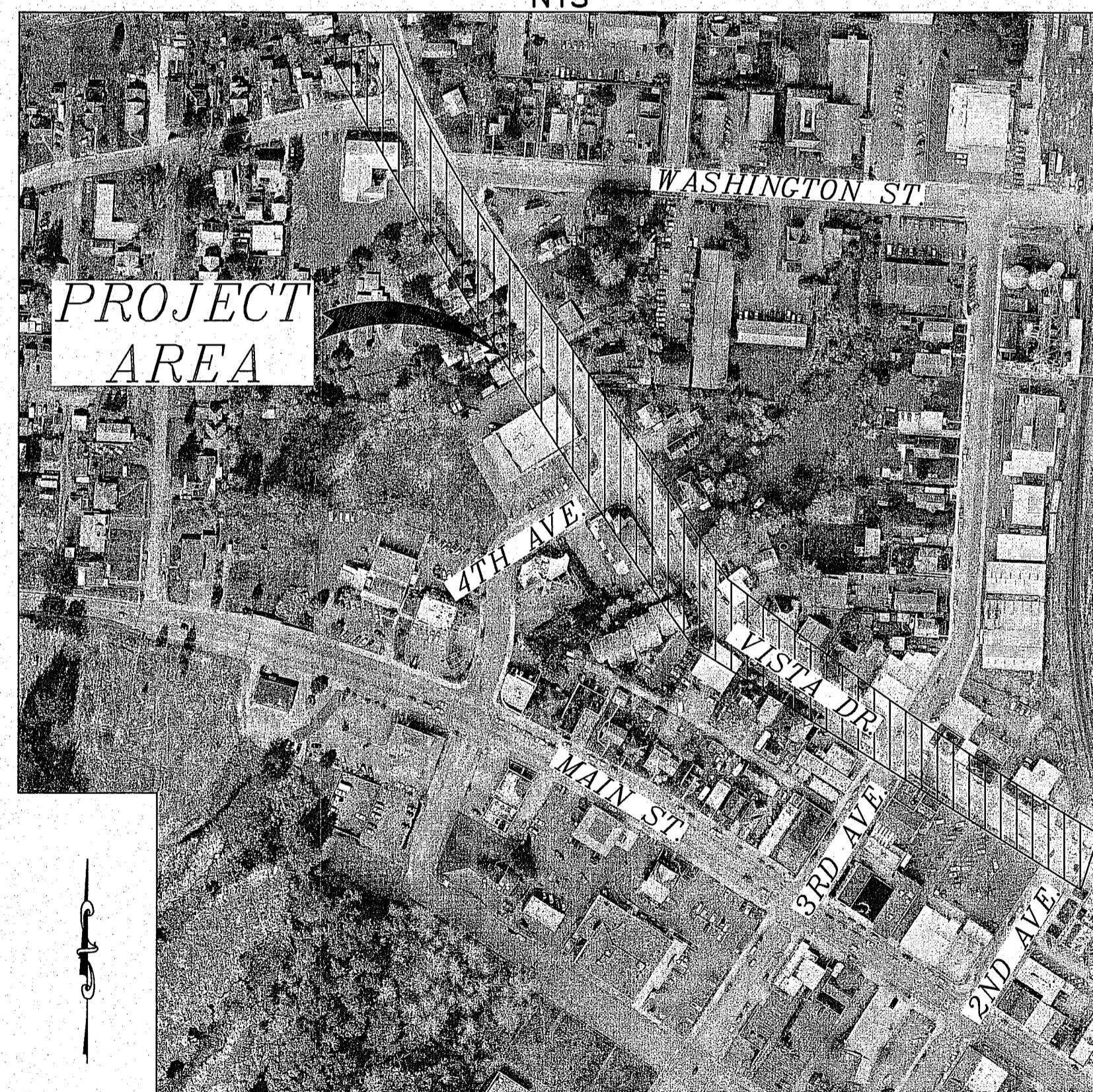
CITY OF FERNDALE

PROJECT NO. ST2013-01

00569.001 8/21/14 SH

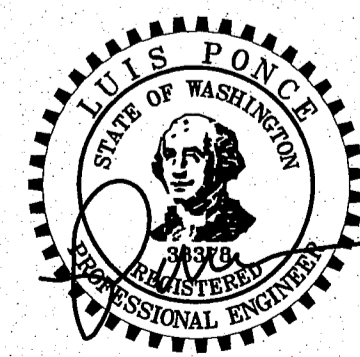
VICINITY MAP

NTS



SHEET INDEX

1. COVER
2. LEGEND AND ABBREVIATIONS
3. EXISTING CONDITIONS AND DEMOLITION PLANS
4. EXISTING CONDITIONS AND DEMOLITION PLANS
5. EXISTING CONDITIONS AND DEMOLITION PLANS
6. TRAFFIC CONTROL PLAN
7. TRAFFIC CONTROL PLAN
8. TRAFFIC CONTROL PLAN
9. PLAN AND PROFILE
10. PLAN AND PROFILE
11. PLAN AND PROFILE
12. PLAN AND PROFILE
13. PLAN AND PROFILE
14. GRADING PLAN
15. GRADING PLAN
16. CHANNELIZATION PLAN
17. CHANNELIZATION PLAN
18. CHANNELIZATION PLAN
19. WATER DETAILS
20. SEWER DETAILS
21. ROAD DETAILS
22. MISCELLANEOUS DETAILS



11/2/13

9/19/13 AS-BUILT

DESIGNED BY
MLK
DRAWN BY
RWG
CHECKED BY
LP

R&E Reichhardt & Ebe
ENGINEERING INC

423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

NO.	DATE	REVISION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

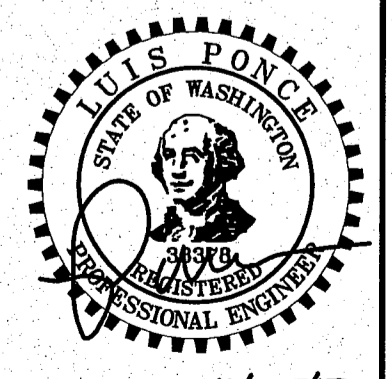
VISTA IMPROVEMENTS
COVER SHEET

JOB# / DWG	DATE
13006 PROP-DESIGN	4-24-13
SCALE H: n/a V: n/a	SHEET 1 of 22

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	PVMNT = PAVEMENT	STD = STANDARD
CATV = CABLE TELEVISION	FT/FT = FEET PER FOOT	PED = PEDESTAL	SP = STANDARD PLAN
CL = CLASS, CENTERLINE	F&G = 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	R = RADIUS	W = WEST
IR = EXISTING IRRIGATION	MOD = MODIFIED	ROW = RIGHT OF WAY	WM = WATER METER
SN = EXISTING SIGN	MW = MONITORING WELL	R&C = RING AND COVER	
FT = FEET	MON = MONUMENT	SSMH = SANITARY SEWER MANHOLE	

EXISTING	LEGEND	PROPOSED	
--- BB --- BB	= EX TOE OF BANK	--- BB --- BB	= PROPOSED AUTOTURN
--- OH --- OH	= EX OVERHEAD POWER	--- BB --- BB	= PROPOSED DITCH CL
--- ---	= EX CONCRETE	--- C --- C	= PROPOSED TOE OF BANK
--- 95 ---	= EX MAJOR CONTOUR	--- TB --- TB	= PROPOSED CONDUIT
--- 95 ---	= EX MINOR CONTOUR	--- TB --- TB	= PROPOSED TOP OF BANK
--- X --- X	= EX FENCE	--- 95 ---	= PROPOSED MAJOR CONTOUR
--- FO --- FO	= EX FIBER OPTICS LINE	--- 95 ---	= PROPOSED MINOR CONTOUR
--- G --- G	= EX GAS MAIN	--- X --- X	= PROPOSED FENCE
--- ---	= EX GUARDRAIL	--- ---	= PROPOSED HANDRAIL
--- ---	= EX GRAVEL	--- FM --- FM	= PROPOSED CONSTRUCTION EASEMENT
--- ---	= EX PROPERTY BOUNDARY	--- FO --- FO	= PROPOSED SANITARY SEWER FORCE MAIN
--- PR --- PR	= EX POWER BURIED	--- ---	= PROPOSED FIBER OPTICS
--- ---	= EX ROAD CL	--- ---	= PROPOSED GRADE BREAK
--- ---	= EX EDGE OF PAVEMENT	--- ---	= PROPOSED GUARDRAIL
--- ---	= EX WALL	--- ---	= PROPOSED GRAVEL
--- ---	= EX RIGHT OF WAY	--- ---	= PROPOSED PATH
--- ---	= EX TREE LINE	--- ---	= PROPOSED PARKING STRIPE
--- ---	= EX LANDSCAPE	--- ---	= PROPOSED TRAFFIC STRIPE
--- SD --- SD	= EX STORM DRAIN	--- ---	= PROPOSED ROCK WALL
--- SS --- SS	= EX TRAFFIC SIGNAL CONDUCTOR	--- ---	= PROPOSED BACK OF CURB
--- ---	= EX SANITARY SEWER	--- ---	= PROPOSED ROAD CL
--- ---	= EX TRAFFIC STRIPING	--- ---	= PROPOSED ROAD EDGE OF PAVEMENT
--- TB --- TB	= EX PARKING STRIPING	--- ---	= PROPOSED ROAD FACE OF CURB
--- T --- T	= EX TOP OF BANK	--- ---	= PROPOSED ROAD LIP OF GUTTER
--- OT --- OT	= EX TELEPHONE LINE	--- ---	= PROPOSED RIGHT OF WAY
--- ---	= EX OVERHEAD TELEPHONE	--- ---	= PROPOSED SAWCUT
--- W --- W	= EX TV LINE	--- SD --- SD	= PROPOSED STORM DRAIN
--- ---	= EX WATER MAIN	--- SD --- SD	= PROPOSED FIELD STORM DRAIN
--- ---	= EX SIDEWALK	--- TS --- TS	= PROPOSED TRAFFIC SIGNAL CONDUCTOR
--- ---	= EX WETLANDS BOUNDARY	--- X --- X	= PROPOSED SILT FENCE
--- ---	= EX EASEMENT	--- SS --- SS	= PROPOSED SANITARY SEWER
--- ---	= EX GRADE BREAK	--- ---	= PROPOSED TREE LINE
--- ---	= EX SANITARY SEWER FORCE MAIN	--- W --- W	= PROPOSED WATER MAIN
--- ---	= EX FLOWLINE	--- ---	= PROPOSED SIDEWALK
--- C --- C	= EX TOP BACK CURB	--- ---	= PROPOSED PAVEMENT VALLEY
--- UD --- UD	= EXISTING CONDUIT	--- UD --- UD	= PROPOSED UNDERDRAIN
--- ---	= EX UNDERDRAIN	--- ---	= PROPOSED GRIND
--- ---	= EX RR TRACKS	--- ---	
--- ---	= EX BUILDING	--- ---	
--- ---	= EX CONCRETE IN ROADWAY	--- ---	
--- ---	= EX MONITORING WELL	--- ---	
--- ---	= EX SOIL BORING LOCATION	--- ---	
--- ---	= EX GUY WIRE	--- ---	
--- ---	= EX STORM CLEANOUT	--- ---	
--- ---	= EX SEWER CLEANOUT	--- ---	
--- ---	= EX JBOX	--- ---	
--- ---	= EX STREET LIGHT	--- ---	
--- ---	= EX MAIL BOX	--- ---	
--- ---	= EX WATER METER	--- ---	
--- ---	= EX WATER SPIGOT	--- ---	
--- ---	= EX WATER SPRINKLER	--- ---	
--- ---	= EX WATER VALVE	--- ---	
--- ---	= EX FIRE HYDRANT	--- ---	
--- ---	= EX TRAFFIC SIGNAL VAULT	--- ---	
--- ---	= EX SEWER MANHOLE	--- ---	
--- ---	= EX WATER MANHOLE	--- ---	
--- ---	= EX STORM DRAIN CATCH BASIN TYPE I	--- ---	
--- ---	= EX STORM DRAIN CATCH BASIN TYPE II	--- ---	
--- ---	= EX UTILITY POLE	--- ---	
--- ---	= EX GAS METER	--- ---	
--- ---	= EX TRANSFORMER PAD	--- ---	
--- ---	= EX POWER VAULT	--- ---	
--- ---	= EX SIGN	--- ---	
--- ---	= EX TELEPHONE PEDESTAL	--- ---	
--- ---	= EX SIGNAL POLE AND ARM W/ LUMINAIRE	--- ---	
--- ---	= EX TREE	--- ---	
--- ---	= EX VEGETATION	--- ---	

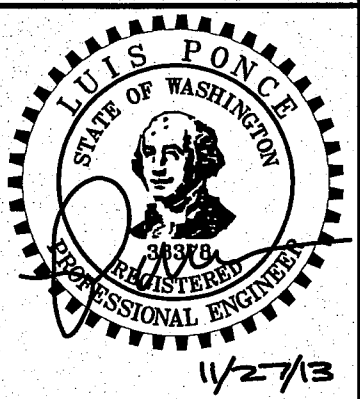
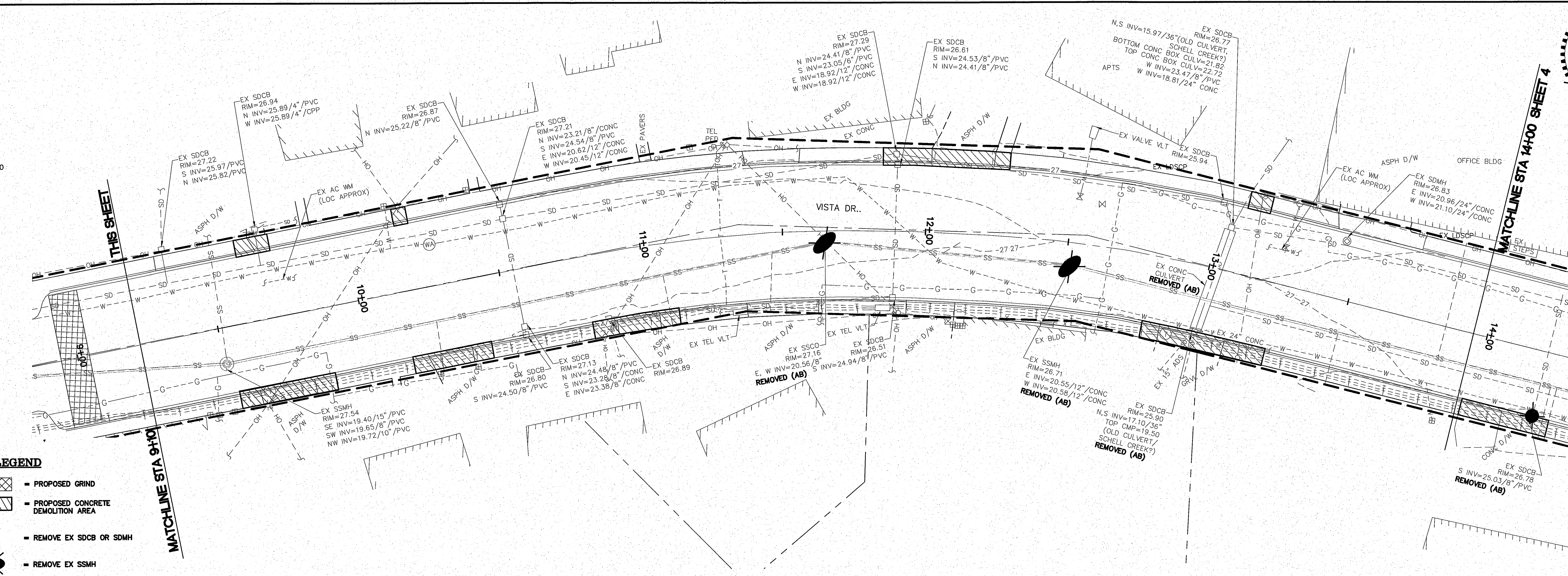
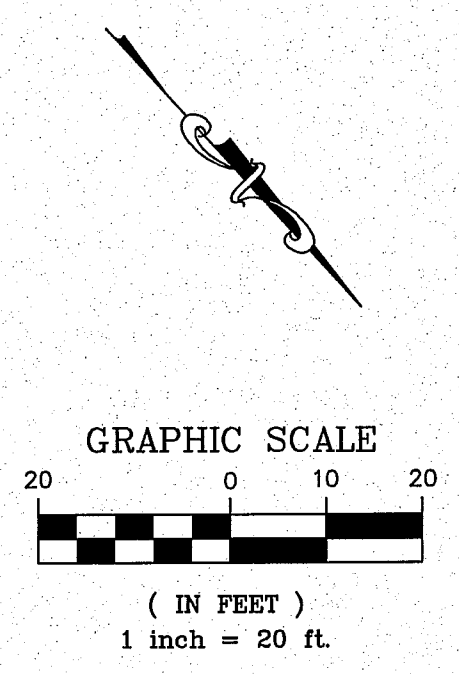
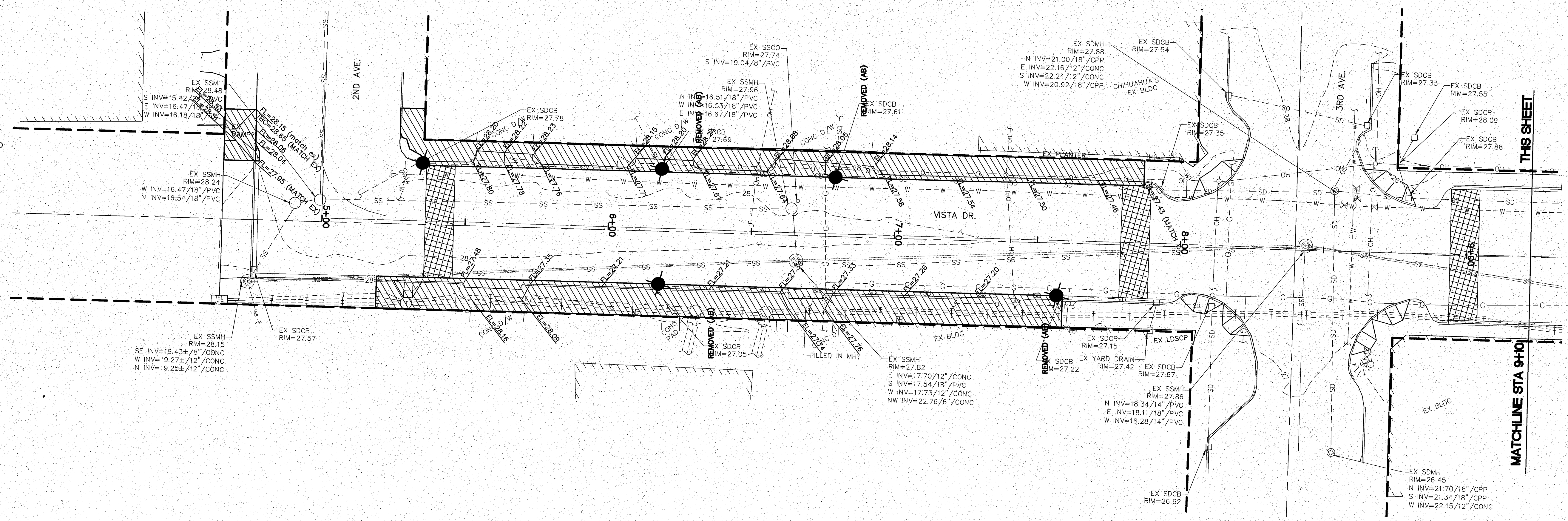
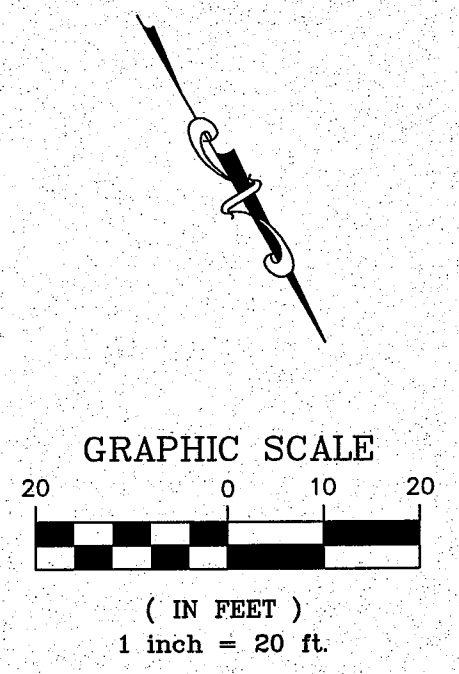


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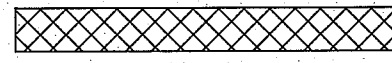



H/S 11/12/8 2007 8/21/14 SH 00569.002

AS-BUILT <small>9/19/13</small>	DESIGNED BY LP/MLK DRAWN BY RWG CHECKED BY LP		423 Front St., Lynden, WA 98264 (360) 354-3687 813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713	NO. DATE REVISION BY	CITY OF FERDALE 2095 MAIN ST FERDALE, WA 98248	VISTA IMPROVEMENTS LEGEND AND ABBREVIATIONS	JOB# / DWG 13006 PROP-DESIGN SCALE H:n/a V:n/a	DATE 4-24-13 SHEET 2 of 22
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00569.003 8/21/14 SH



LEGEND

-  PROPOSED GRIND
-  PROPOSED CONCRETE DEMOLITION AREA
-  REMOVE EX SDCB OR SDMH
-  REMOVE EX SSMH

11/27/13 AS-BUILT

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DRAWN BY RWG
CHECKED BY LP

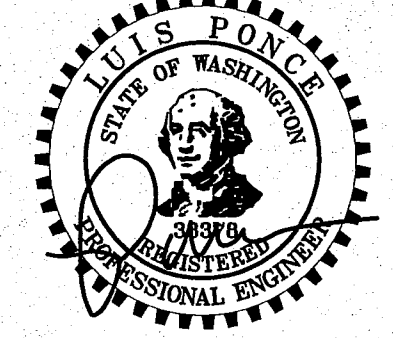
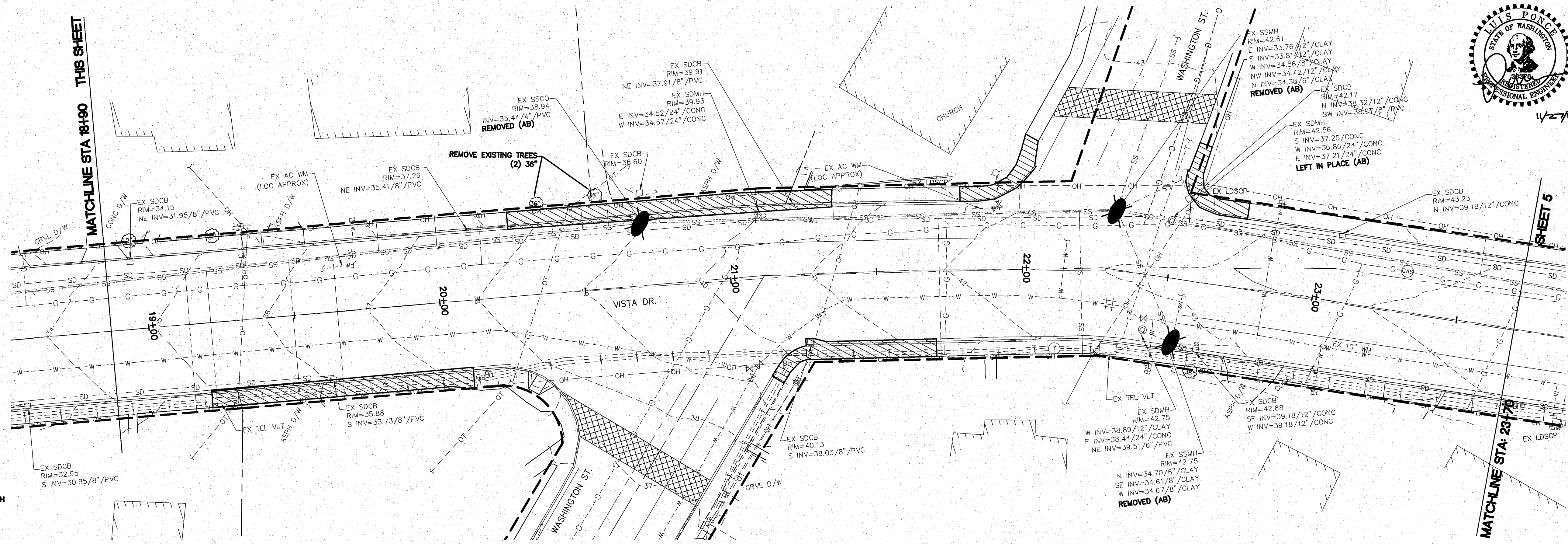
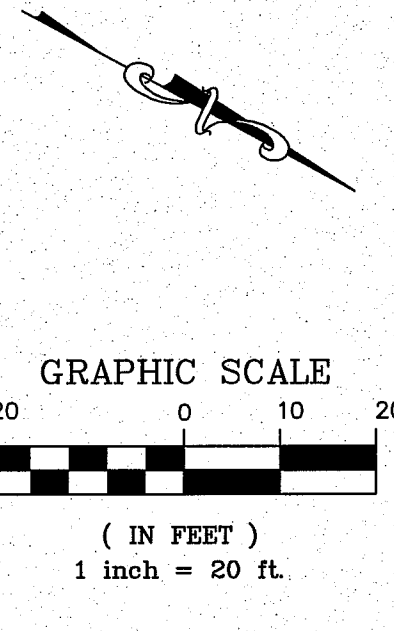
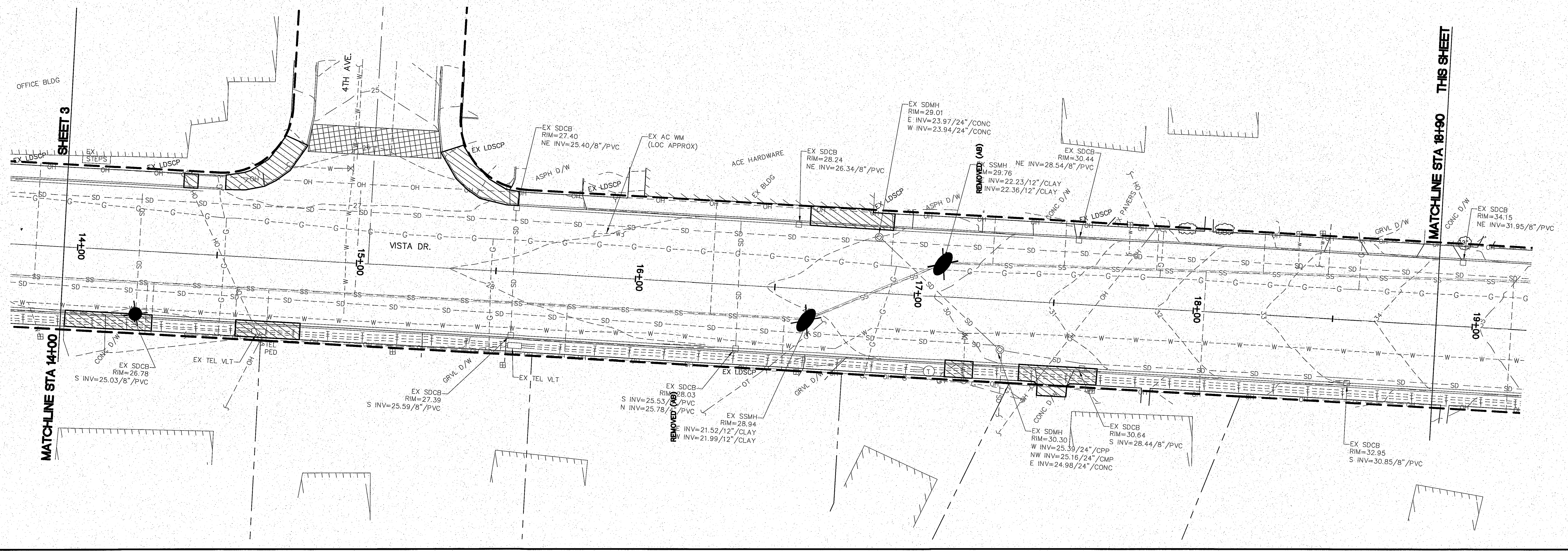
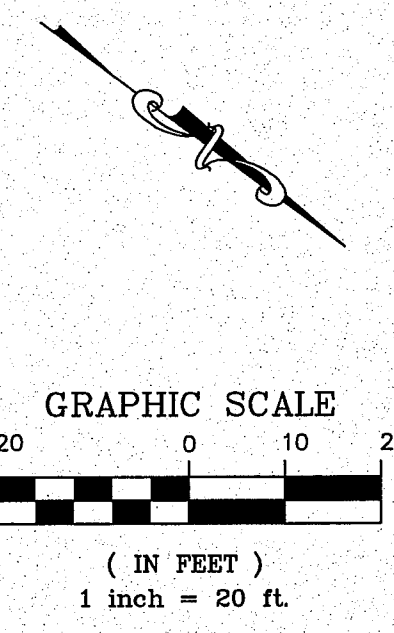
R&E Reichardt & Ebe
ENGINEERING INC
423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

NO.	DATE	REVISION	BY

CITY OF FERDALE
2095 MAIN ST
FERDALE, WA 98248

VISTA IMPROVEMENTS
EXISTING CONDITIONS AND DEMOLITION PLAN
BEGIN TO STA: 14+00

JOB# / DWG	13006 DEMO	DATE	4-24-13
SCALE	H:1"=20' V:N/A	SHEET	3 of 22



- LEGEND**
- PROPOSED GRIND
 - PROPOSED CONCRETE DEMOLITION AREA
 - REMOVE EX SDCB OR SDMH
 - REMOVE EX SSMH

11/27/13
AS-BUILT

DESIGNED BY LP/MLK
DRAWN BY RWG
CHECKED BY LP

R&E Reichardt & Ebe ENGINEERING INC
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813 Metcalf St, Sedro-Woolley, WA 98284 (360) 855-1713

NO.	DATE	REVISION	BY

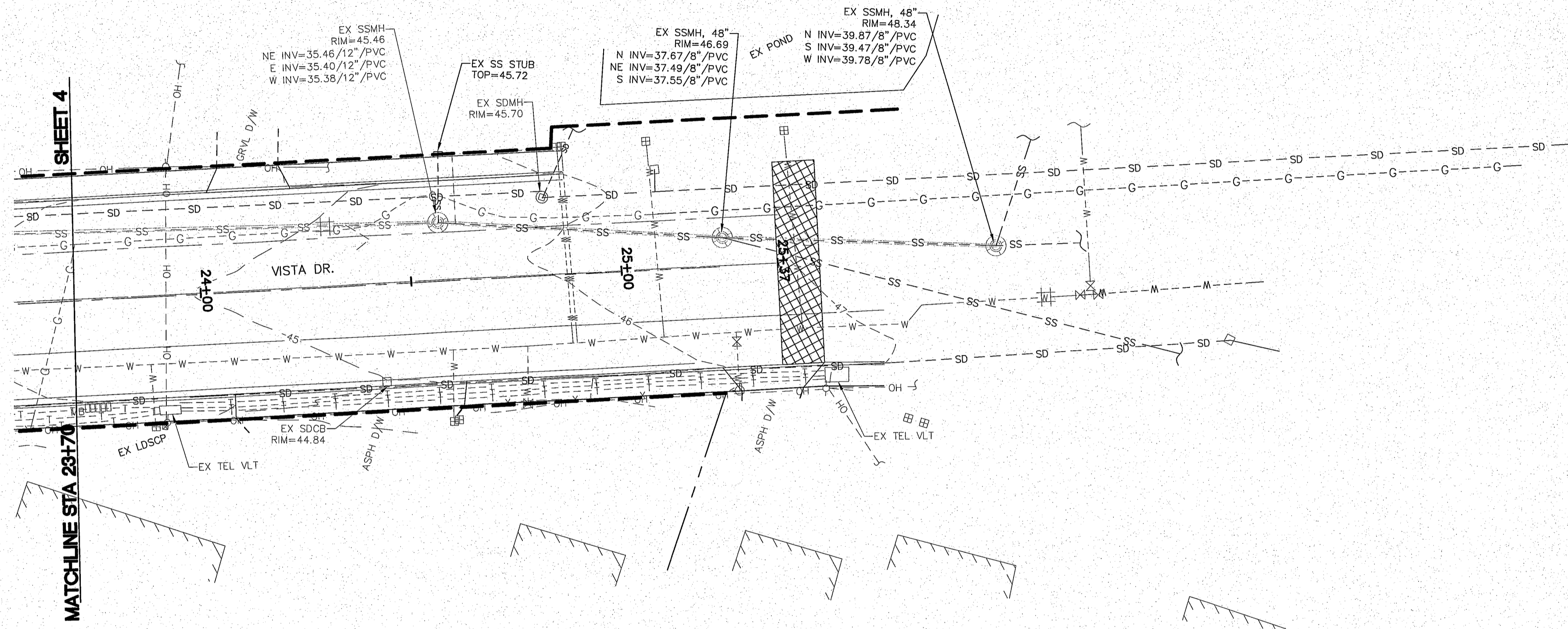
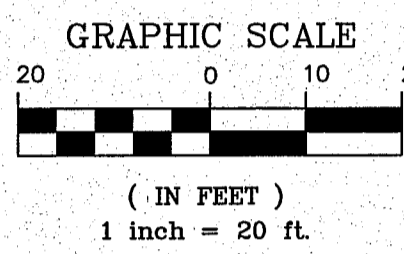
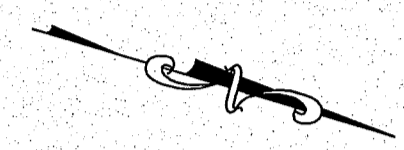
CITY OF FERDALE
2095 MAIN ST
FERDALE, WA

VISTA IMPROVEMENTS
EXISTING CONDITIONS AND DEMOLITION PLAN
STA: 14+00 TO STA: 23+70

JOB# / DWG 13006 DEMO
SCALE H:1"=20' V:N/A

DATE 4-24-13
SHEET 4 of 22

AS-BUILT 11/27/13 5:00 1.09500



LEGEND

- PROPOSED GRIND
- PROPOSED CONCRETE DEMOLITION AREA
- REMOVE EX SDCB OR SDMH
- REMOVE EX SSMH



11/27/13

11/27/13
AS-BUILT

DESIGNED BY
 LP/MLK
 DRAWN BY
 RWG
 CHECKED BY
 LP

R&E Reichhardt & Ebe
ENGINEERING INC
 423 Front St, Lynden, WA 98264 (360) 354-3687
 813 Metcalf St, Sedro-Woolley, WA 98284 (360) 855-1713

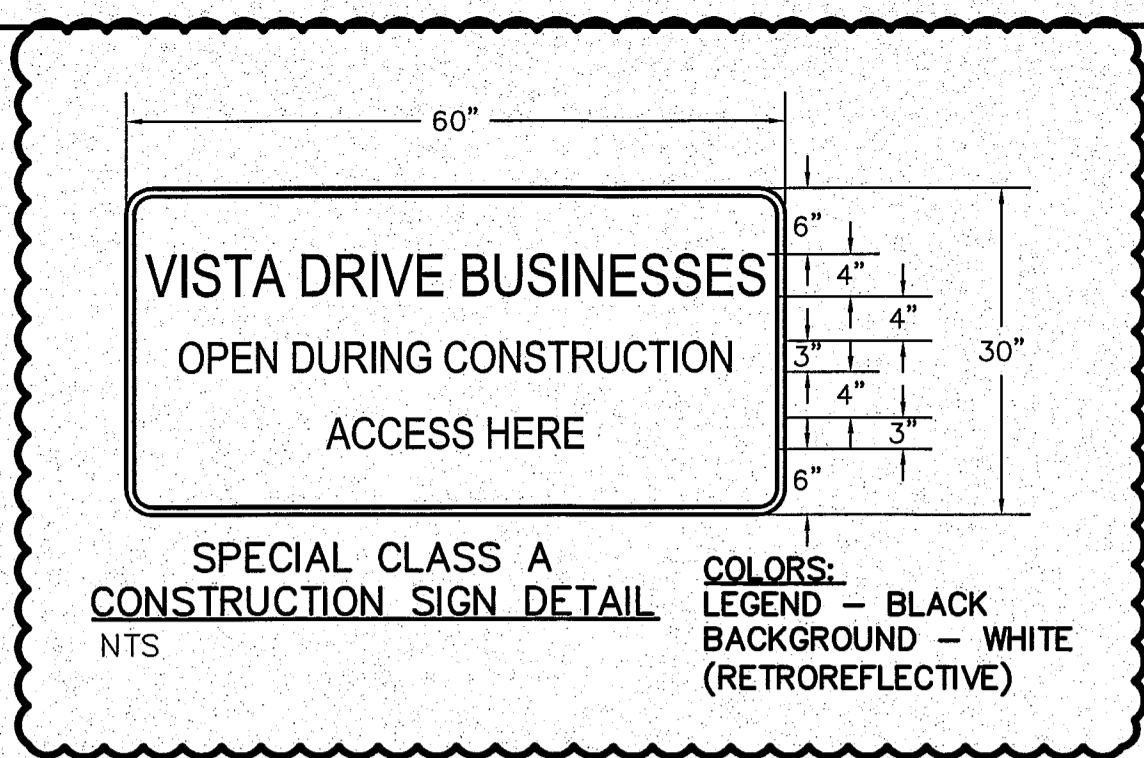
NO.	DATE	REVISION	BY

CITY OF FERNDALE
 2095 MAIN ST
 FERNDALE, WA 98248

VISTA IMPROVEMENTS
 EXISTING CONDITIONS AND DEMOLITION PLAN
 STA: 23+70 TO END

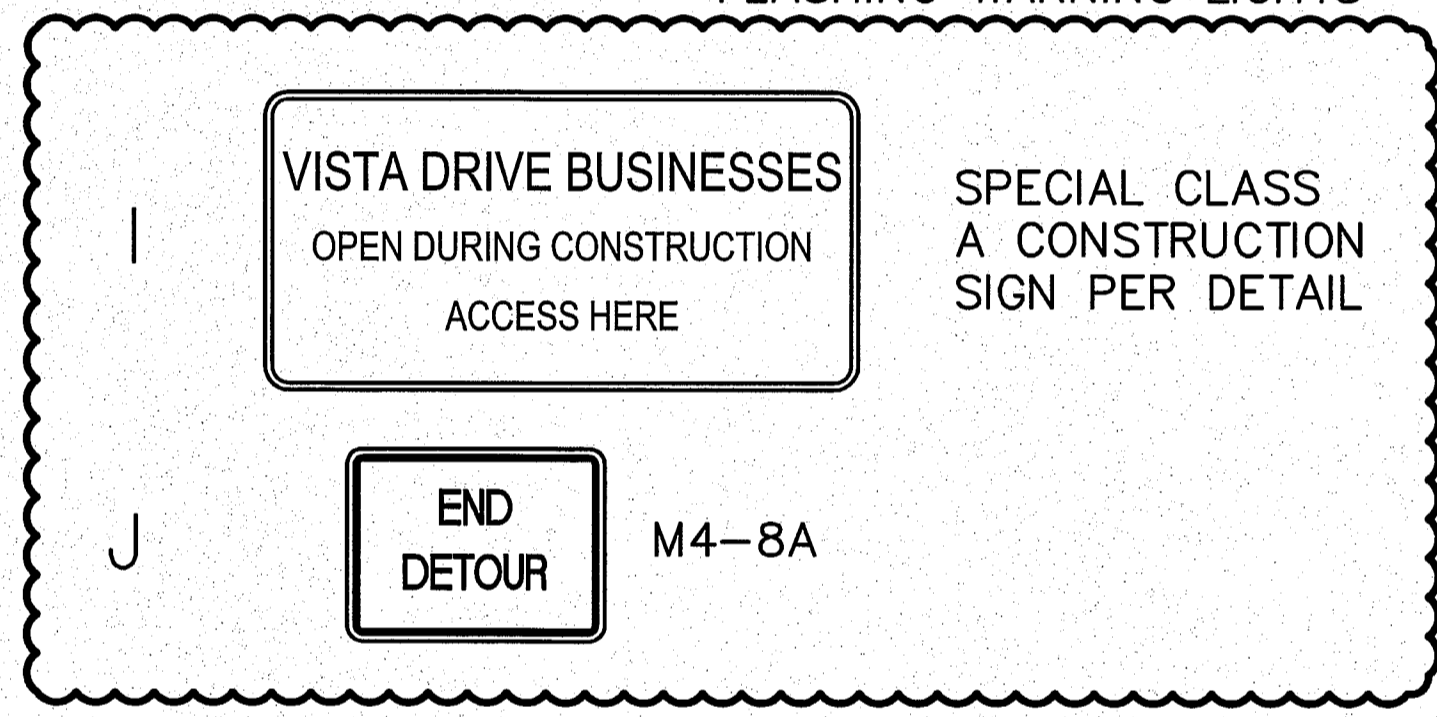
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SCALE H: 1"=20' V: N/A	SHEET 5 of 22

11/27/13 9:00:16 AM



LEGEND

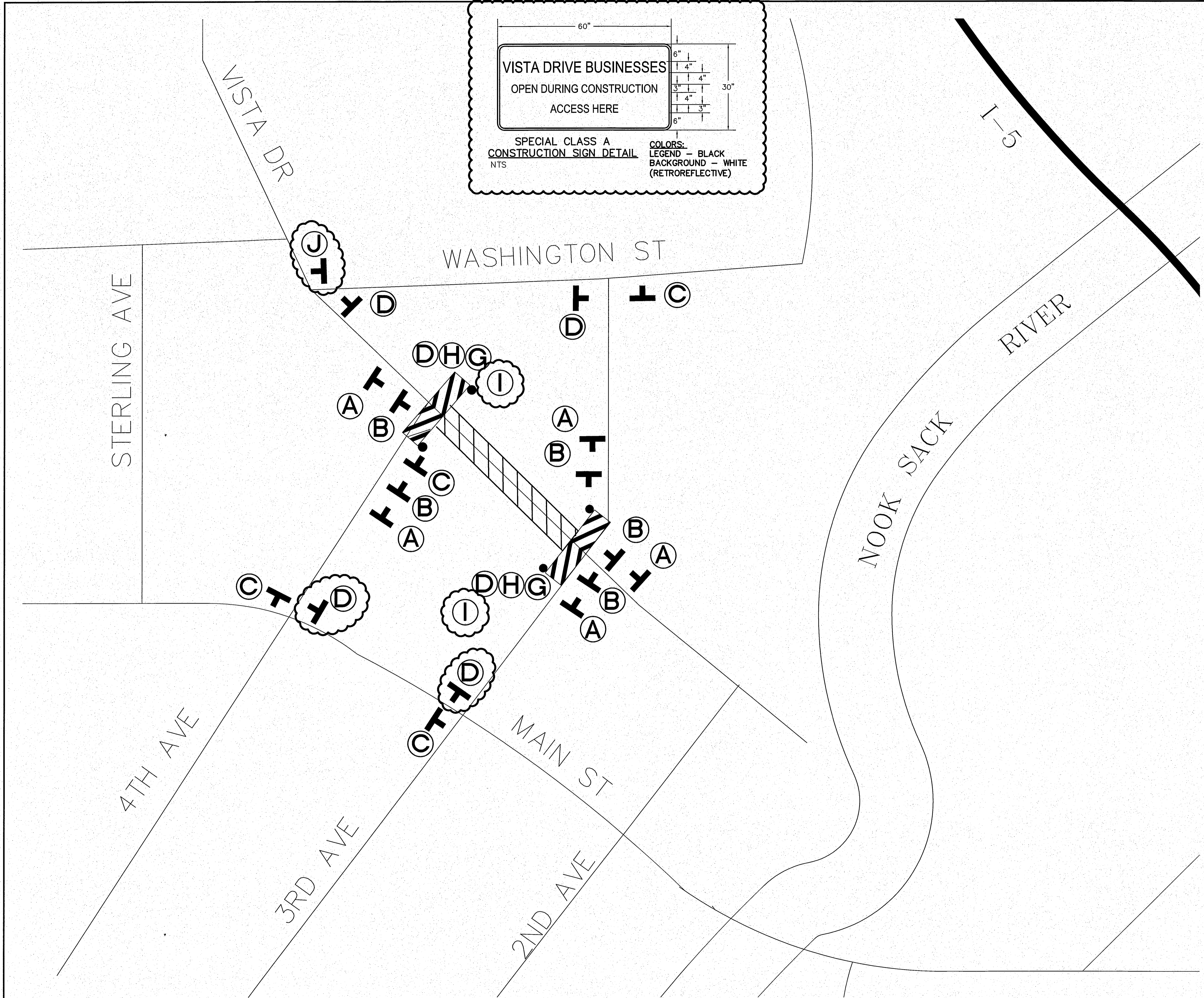
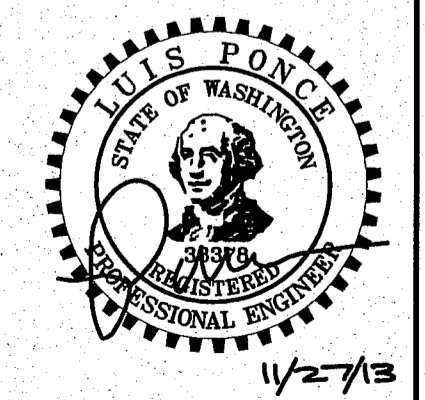
- A W 20-3
- B W20-2
- C M4-10L
- D M4-10R
- G R 11-4
- H TYPE III R AND TYPE III L, BARRICADE WITH 2 TYPE A FLASHING WARNING LIGHTS



WORK AREA

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.



11/27/13 AS-BUILT

DESIGNED BY LP
DRAWN BY LMC
CHECKED BY LP

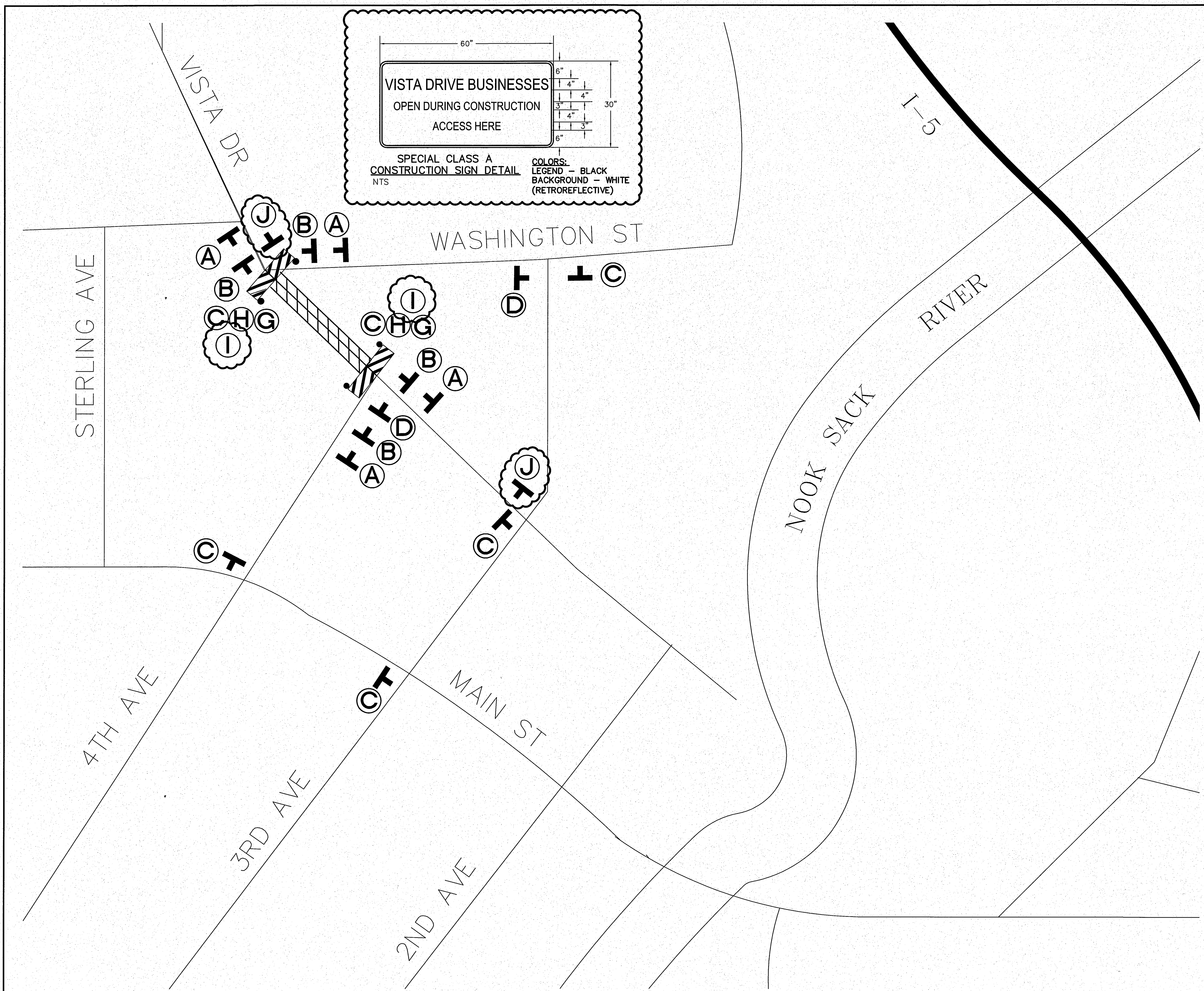
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ENGINEERING INC
423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

NO.	DATE	REVISION	BY
1	5-10-13	REVISE TRAFFIC CONTROL PLAN, ADDENDUM 1	LP

CITY OF FERDALE
2095 MAIN ST
FERDALE, WA 98248

VISTA IMPROVEMENTS
TRAFFIC CONTROL PLAN
PHASE 1

JOB# / DWG	DATE
13006 PROP-DESIGN	4-24-13
SCALE H: N/A V: N/A	SHEET 6 of 22



LEGEND

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

I SPECIAL CLASS A CONSTRUCTION SIGN PER DETAIL

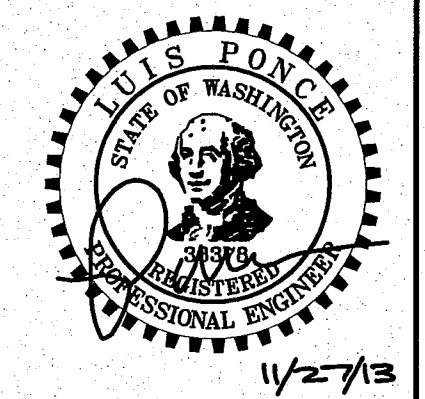
J M4-8A

WORK AREA

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)
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(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.



11/27/13

11/27/13 AS-BUILT

DESIGNED BY LP
 DRAWN BY LMC
 CHECKED BY LP

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

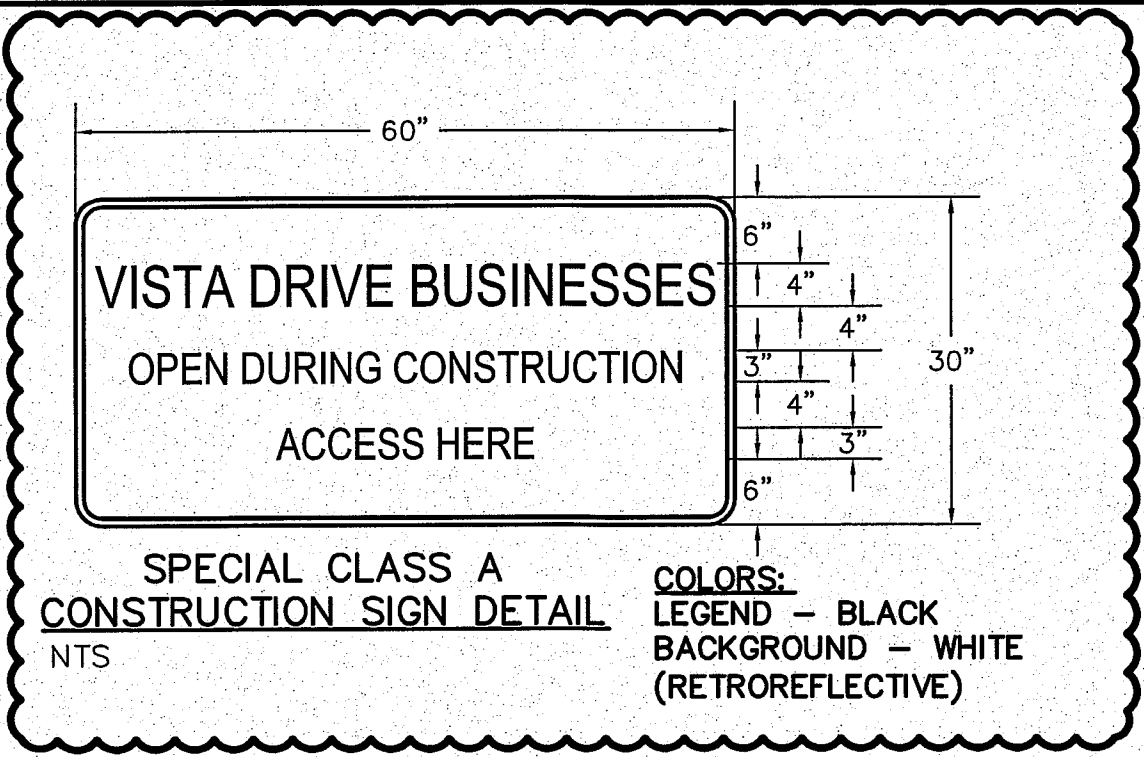
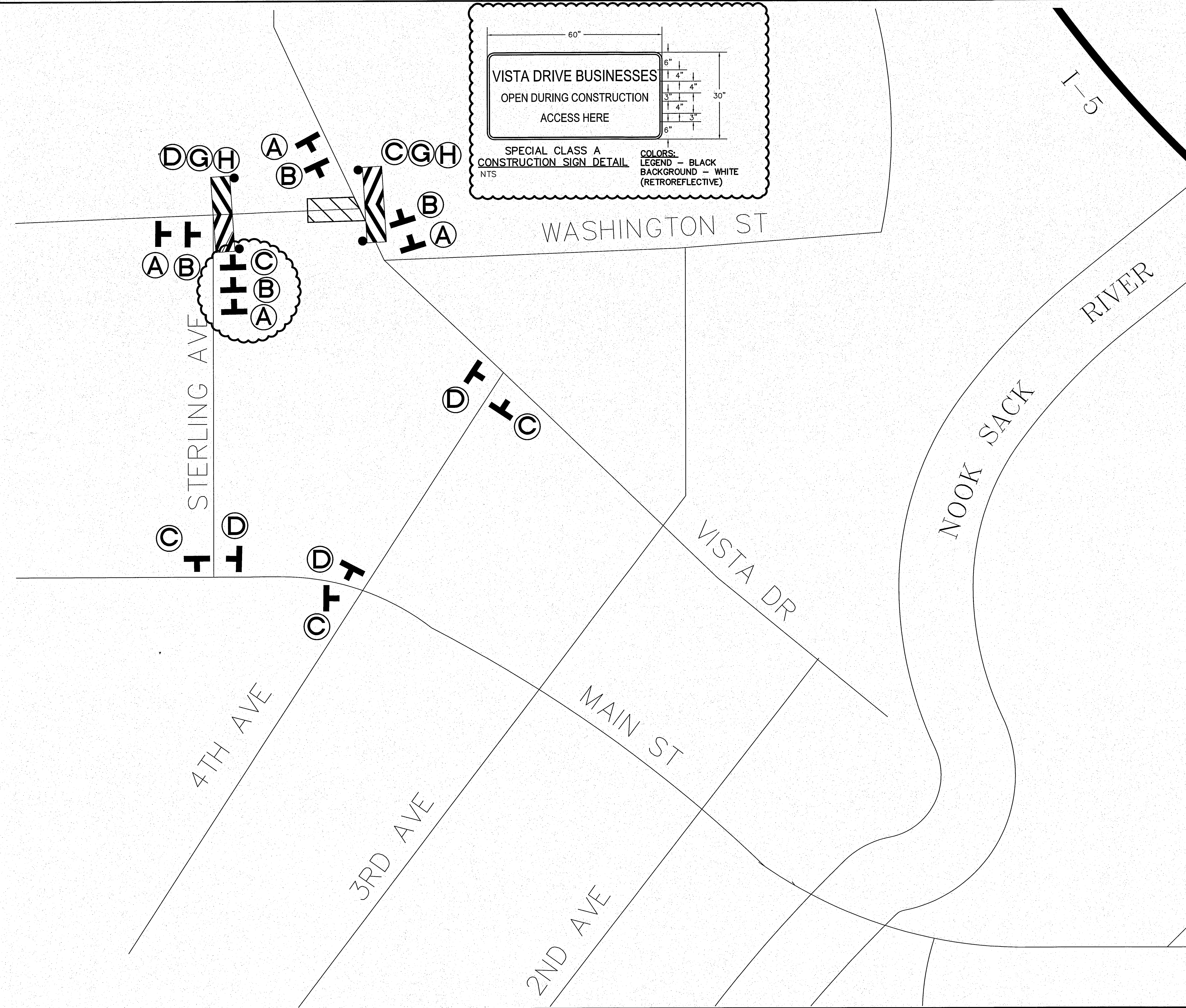
NO.	DATE	REVISION	BY
1	5-10-13	REVISE TRAFFIC CONTROL PLAN, ADDENDUM 1	LP

CITY OF FERNDALE
 2095 MAIN ST
 FERNDALE, WA 98248

VISTA IMPROVEMENTS
 TRAFFIC CONTROL PLAN
 PHASE 2

JOB# / DWG	DATE
13006 PROP-DESIGN	4-24-13
SCALE H: N/A V: N/A	SHEET 7 of 22

11/27/13 00569.008 8/21/14 SH



LEGEND

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

I SPECIAL CLASS A CONSTRUCTION SIGN PER DETAIL

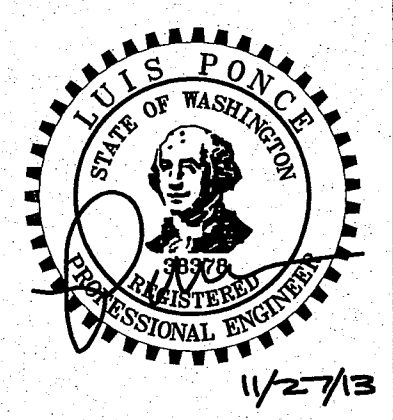
J M4-8A

WORK AREA

SIGN SPACING = X (1)		
RURAL ROADS	45/55 MPH	500'±
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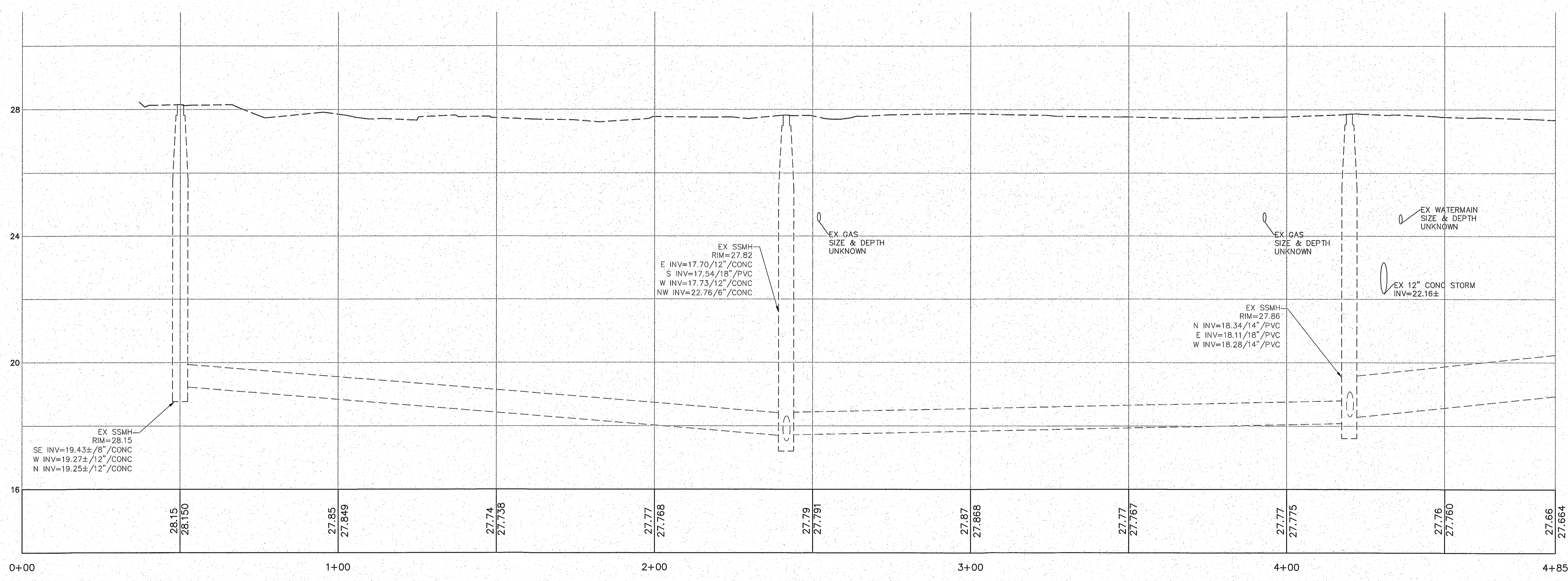
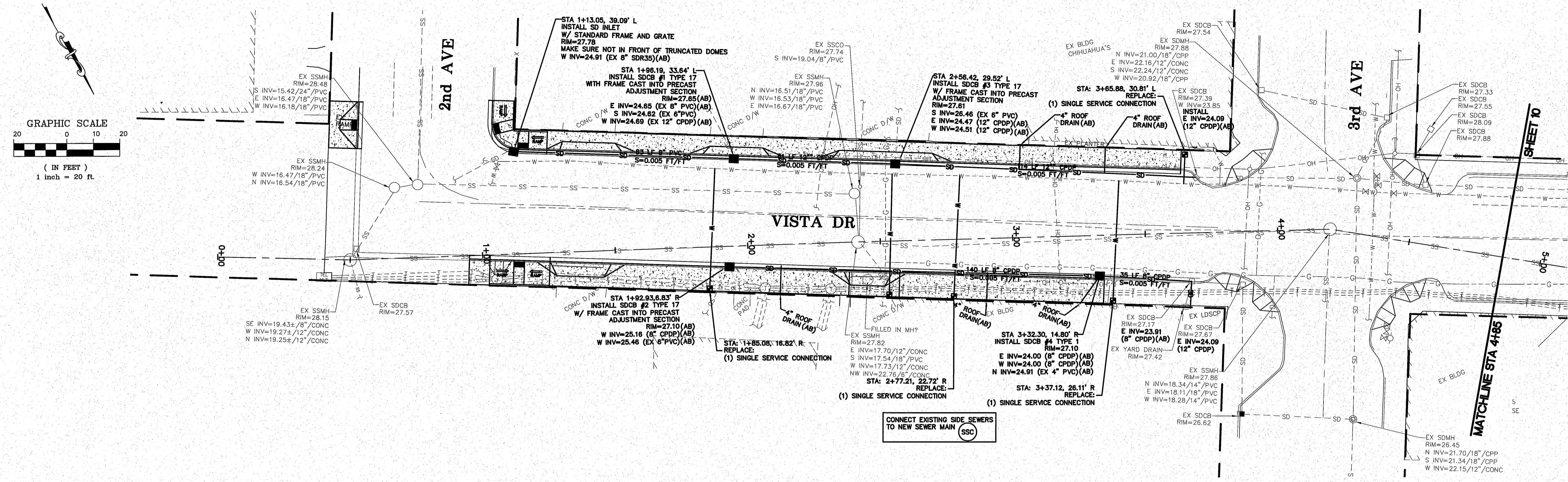
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.

(2) THIS SIGN SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.



11/27/13

00569.009 8/21/14 SH



1/2-7/13

9/19/13 AS-BUILT

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 CHECKED BY

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 ENGINEERING INC
 423 Front St, Lynden, WA 98264 (360) 354-3687
 813 Metcalf St, Sedro-Woolley, WA 98284 (360) 855-1713

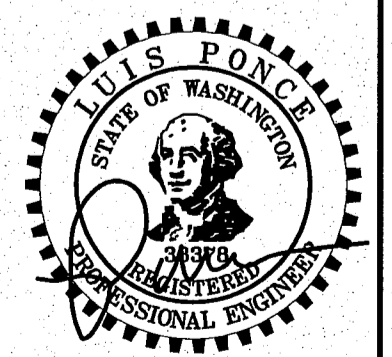
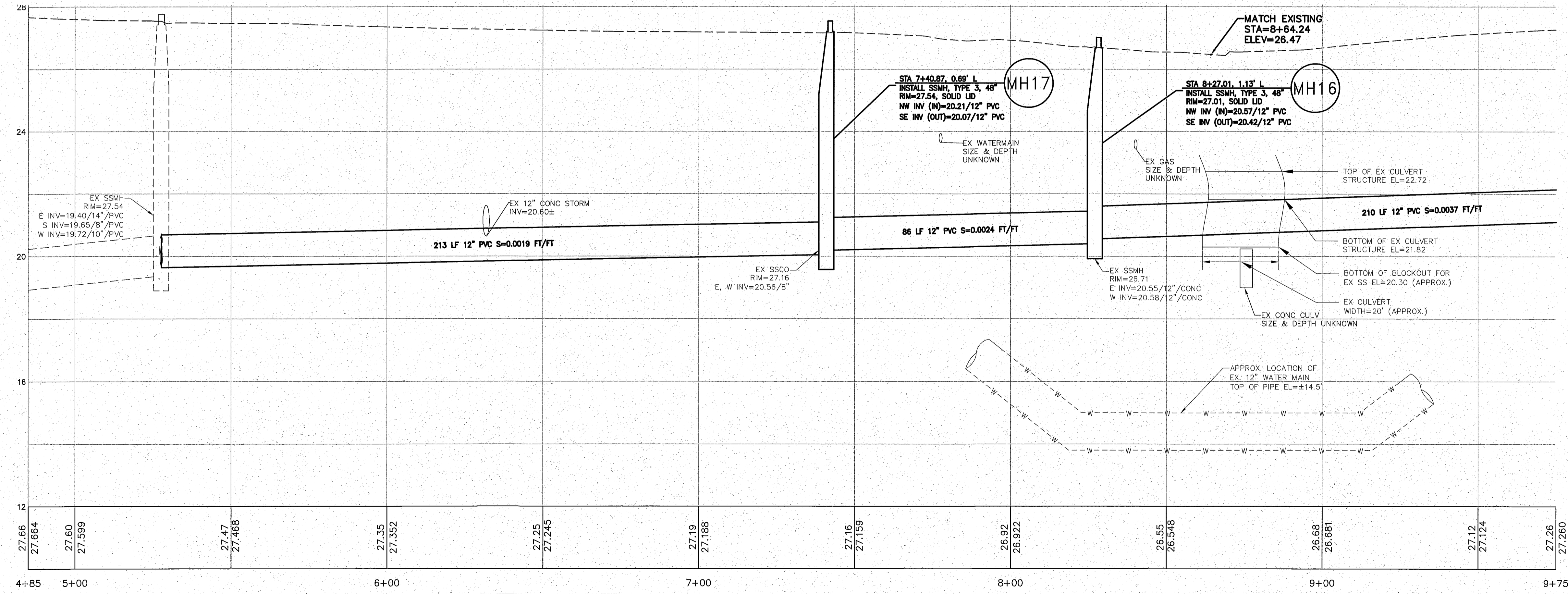
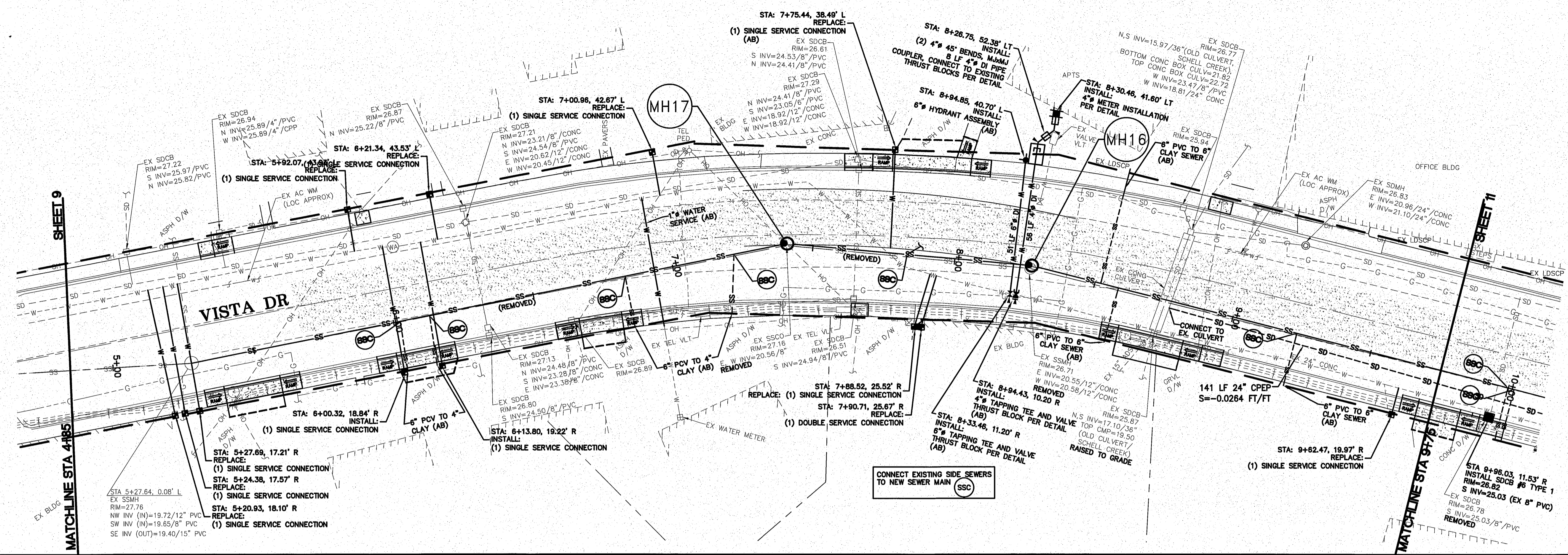
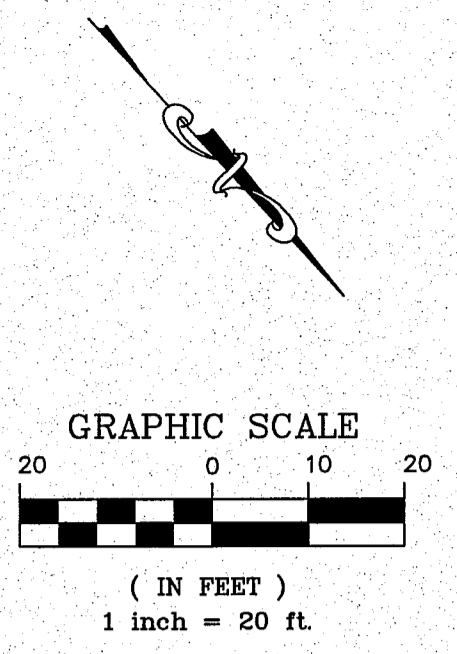
NO.	DATE	REVISION	BY

CITY OF FERDALE
 2095 MAIN ST
 FERDALE, WA 98248

VISTA IMPROVEMENTS
 STA 0+00 TO 4+85
 PLAN AND PROFILE

JOB# / DWG	DATE
13006 PROP-DESIGN	4-24-13
SCALE	SHEET
H:1"=20' V:1"=2'	9 of 22

15 1/2" x 11" 8/2/14 SH



9/19/13 AS-BUILT

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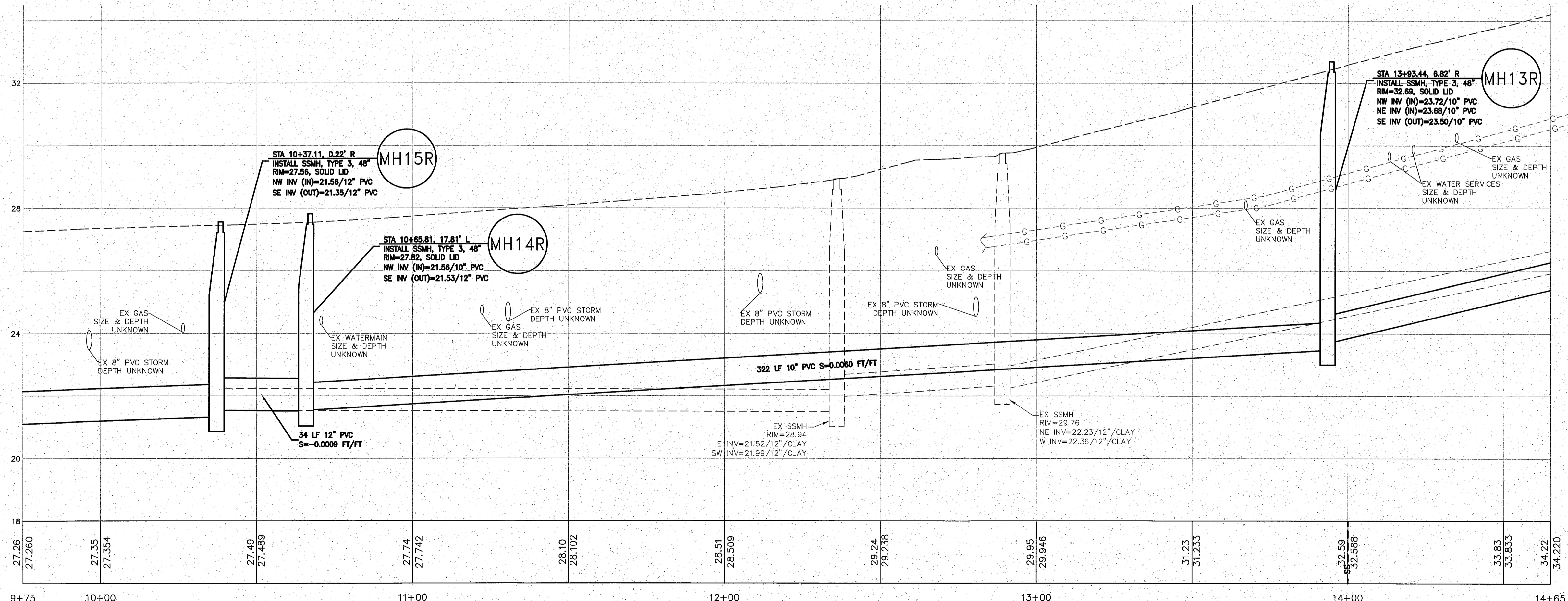
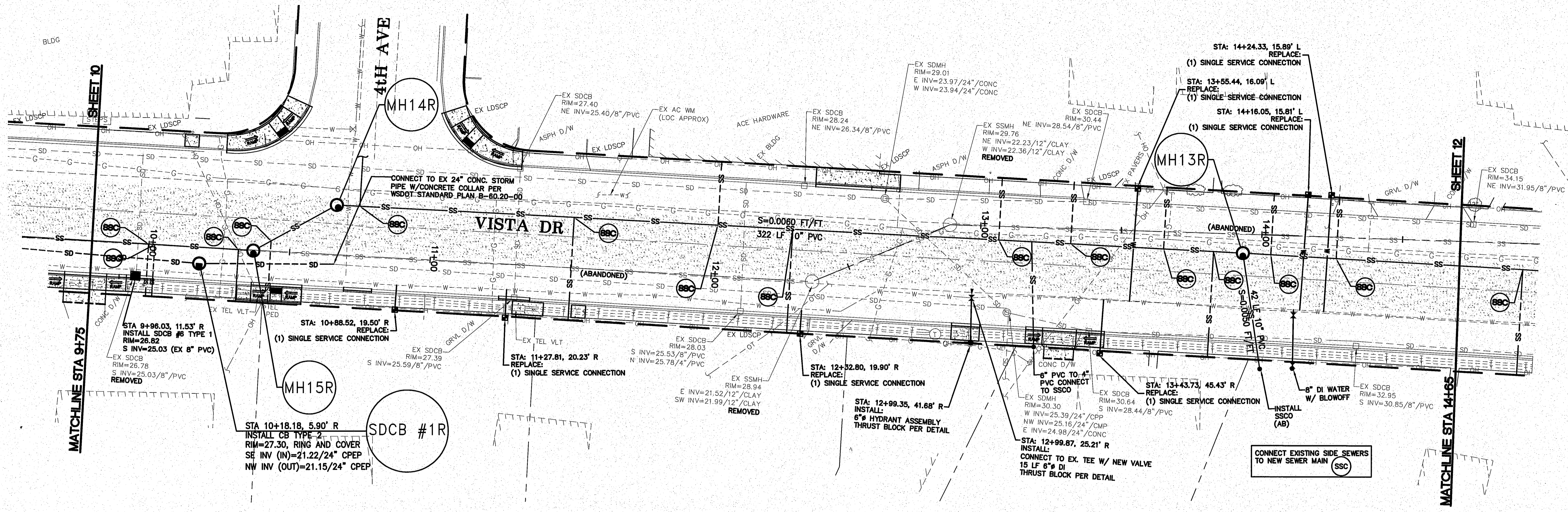
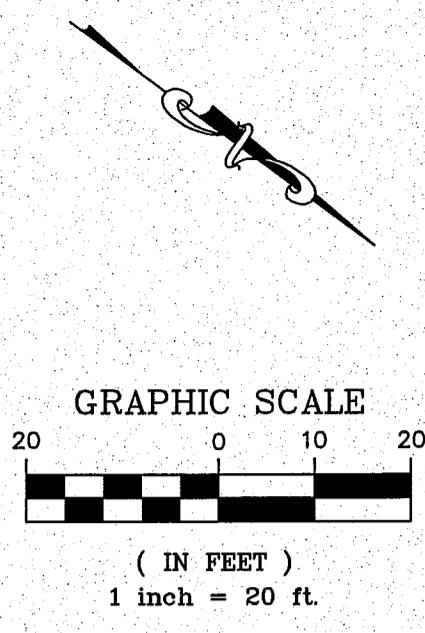
NO.	DATE	REVISION	BY

CITY OF FERDALE
2095 MAIN ST
FERDALE, WA 98248

VISTA IMPROVEMENTS
STA 4+85 TO 9+75
PLAN AND PROFILE

JOB# / DWG	DATE
13006 PROP-DESIGN	4-24-13
SCALE: H:1"=20' V:1"=2'	SHEET 10 of 22

00507. 01 8/2/14 SH



11/27/13

9/19/13 AS-BUILT

DESIGNED BY LP
DRAWN BY LMC
CHECKED BY
R&E Reichardt & Ebe
ENGINEERING INC
423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

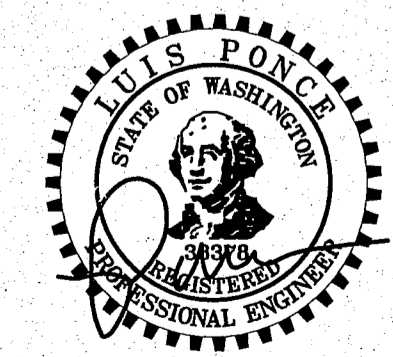
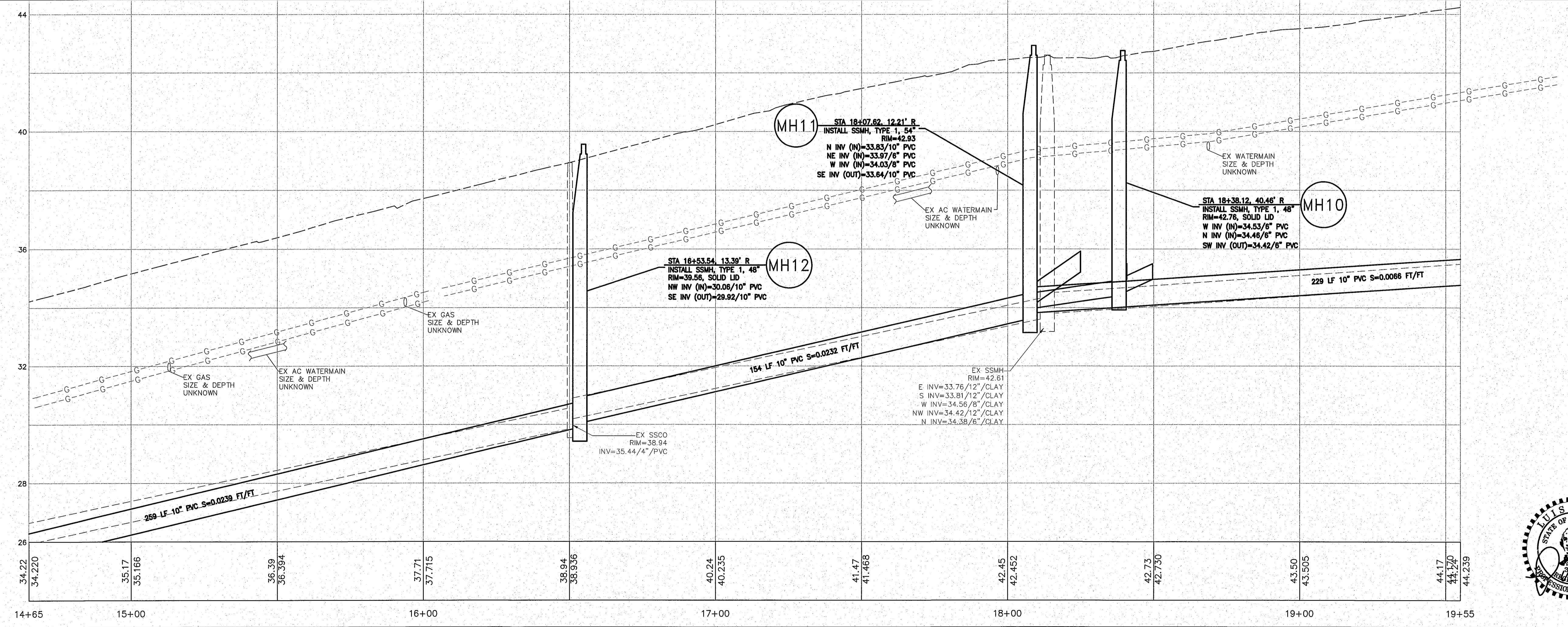
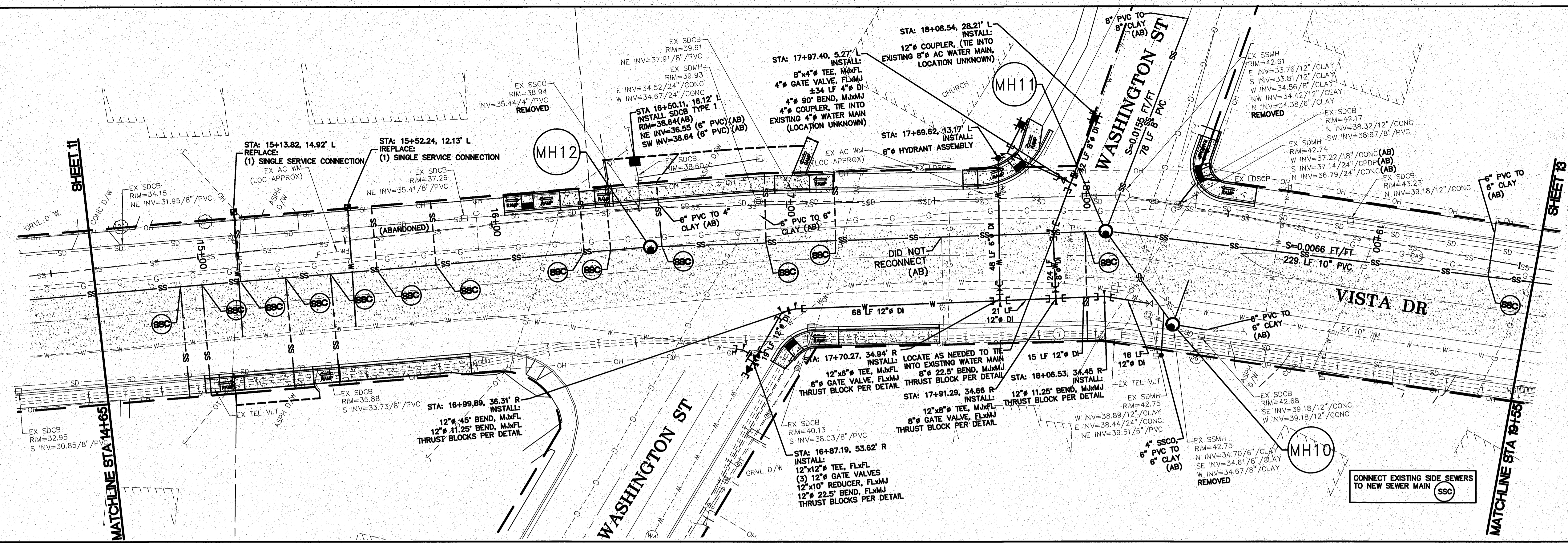
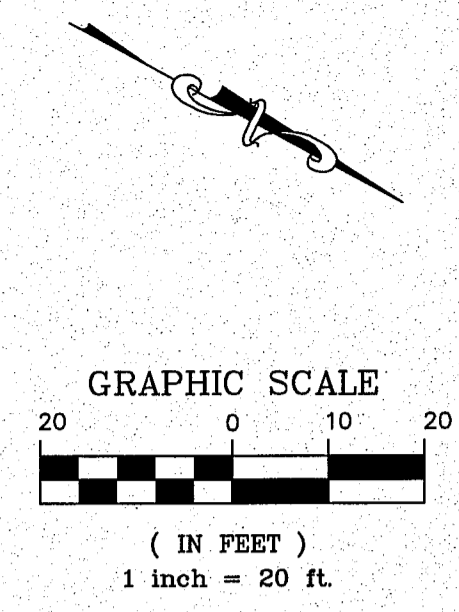
NO.	DATE	REVISION	BY

CITY OF FERDALE
2095 MAIN ST
FERDALE, WA

VISTA IMPROVEMENTS
STA 9+75 TO 14+65
PLAN AND PROFILE

JOB# / DWG	DATE
13006 PROP-DESIGN	4-24-13
SCALE H: 1" = 20' V: 1" = 2'	SHEET 11 of 22

AS 1/17/18 210-69500



11/27/13

9/19/18 AS-BUILT

DESIGNED BY LP
DRAWN BY LMC
CHECKED BY

R&E Reichardt & Ebe
ENGINEERING INC
423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

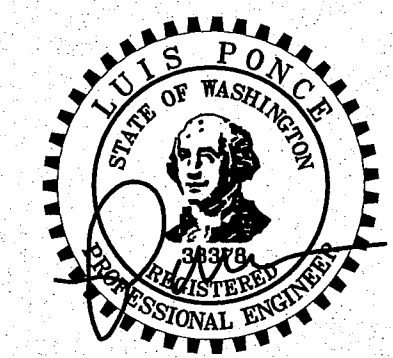
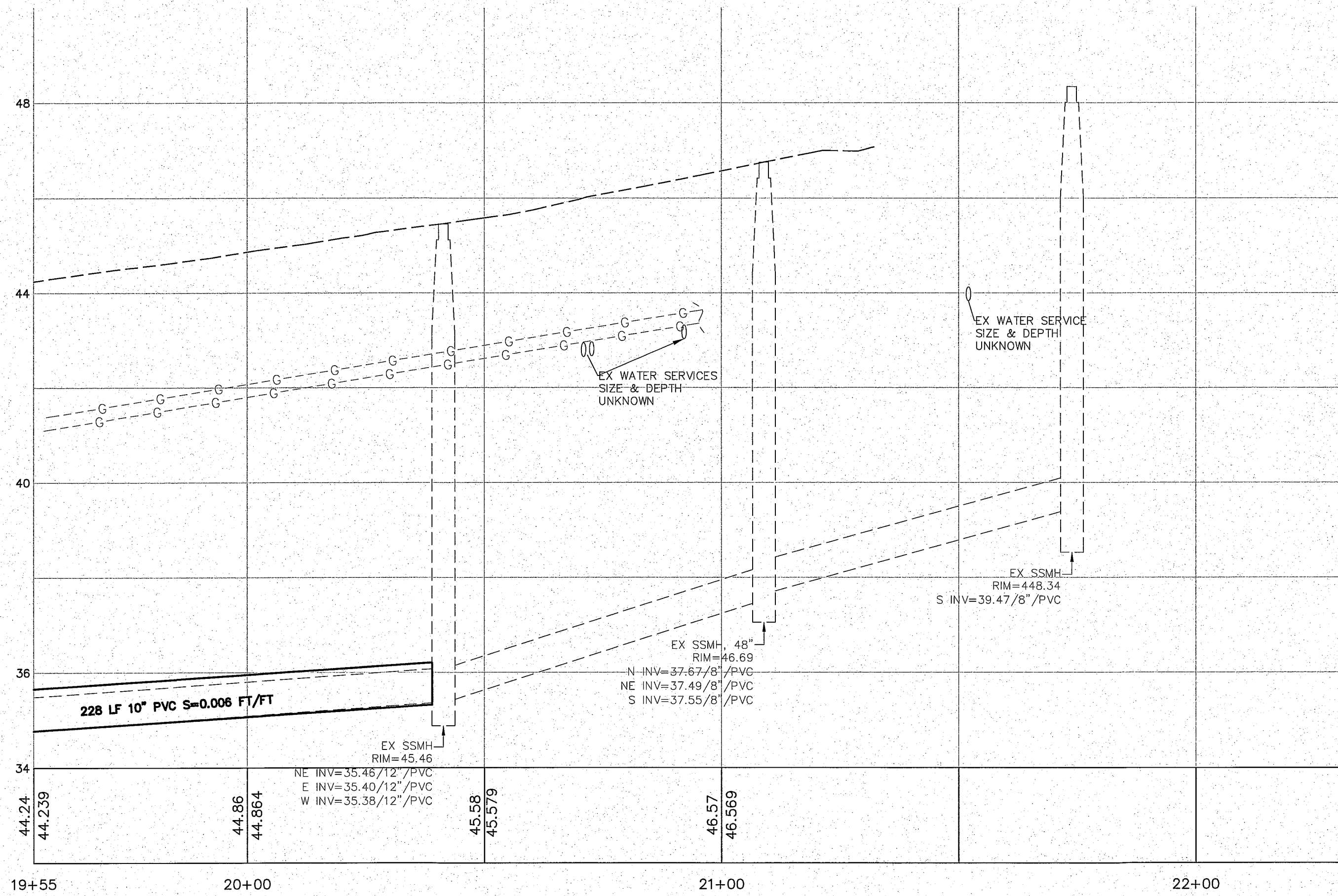
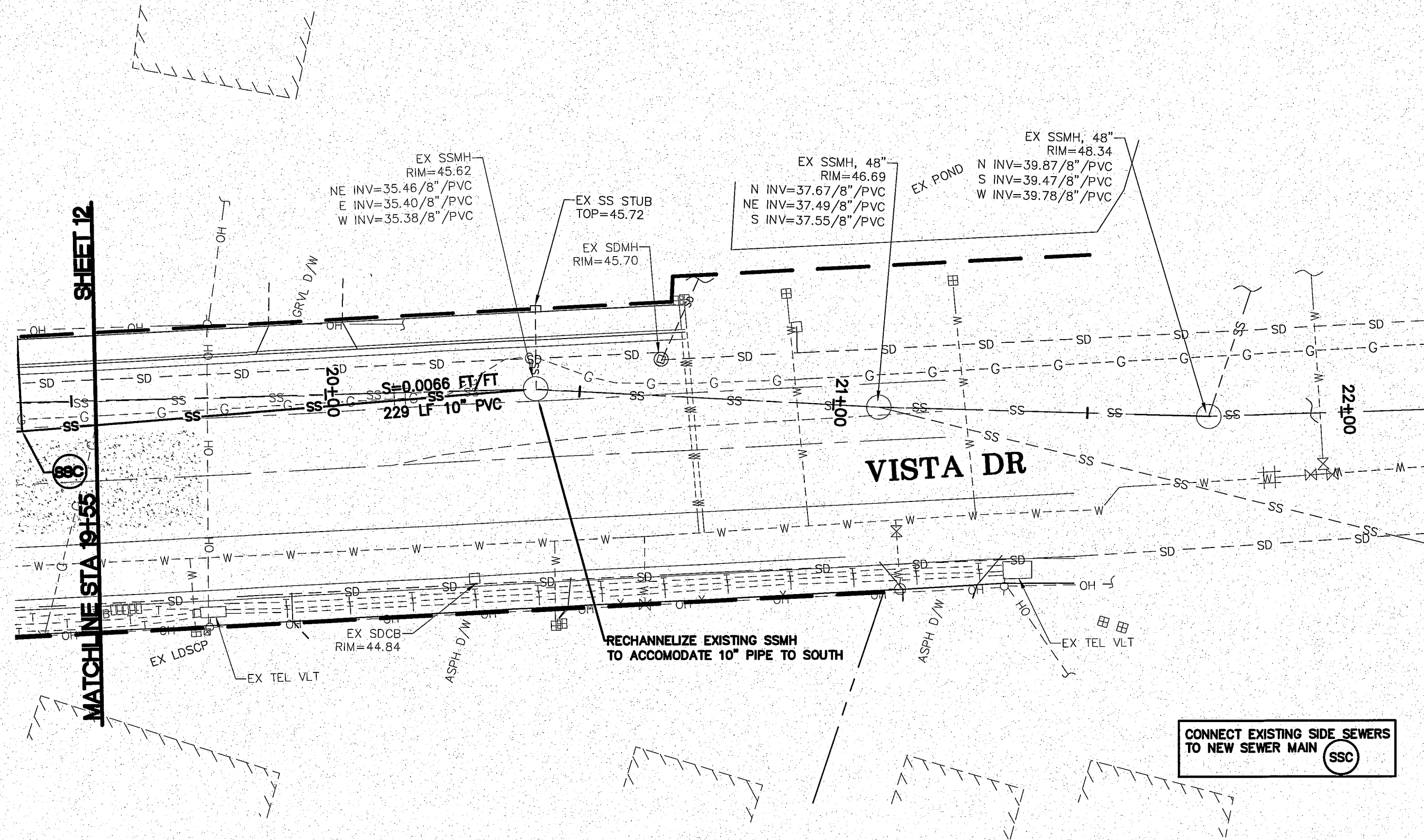
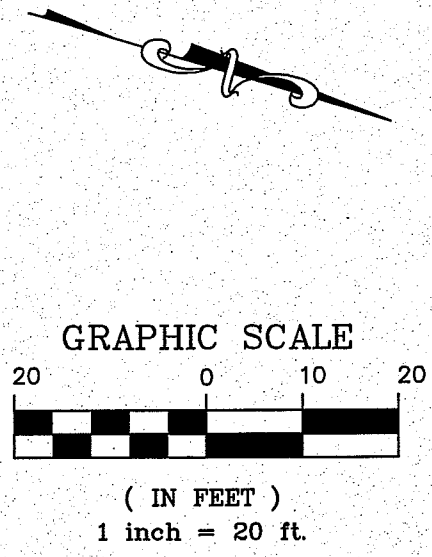
NO.	DATE	REVISION	BY

CITY OF FERDALE
2095 MAIN ST
FERDALE, WA 98248

VISTA IMPROVEMENTS
STA 14+65 TO 19+55
PLAN AND PROFILE

JOB# / DWG
13006 PROP-DESIGN
SCALE
H:1"=20' V:1"=2'

DATE
4-24-13
SHEET
12 of 22



11/27/13

AS 11/21/14 8/21/14 SH 00564.013 8/21/14 SH

9/19/13 AS-BUILT

DESIGNED BY LP
DRAWN BY LMC
CHECKED BY

R&E Reichardt & Ebe
ENGINEERING INC
423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalfe St., Sedro-Woolley, WA 98284 (360) 855-1713

NO.	DATE	REVISION	BY

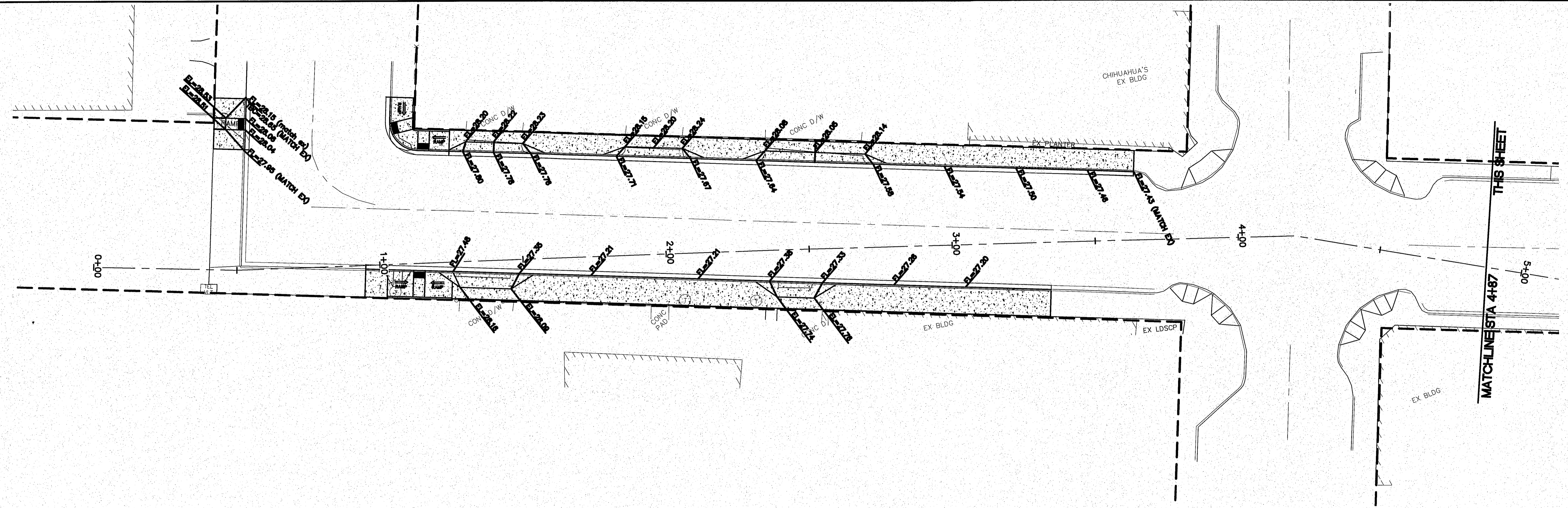
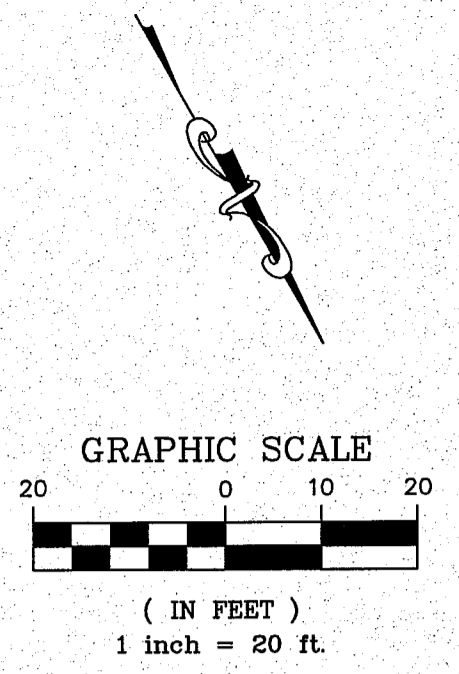
CITY OF FERDALE
2095 MAIN ST
FERDALE, WA 98248

VISTA IMPROVEMENTS
19+55 TO 22+25
PLAN AND PROFILE

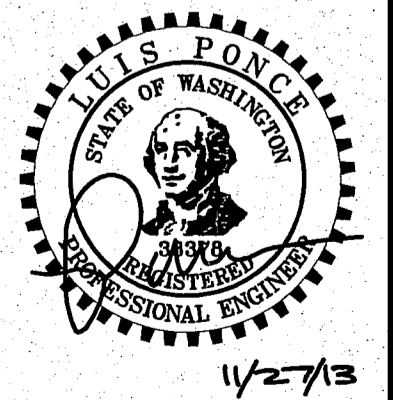
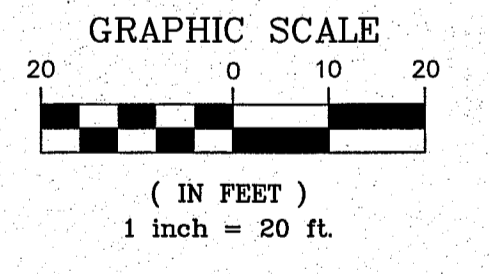
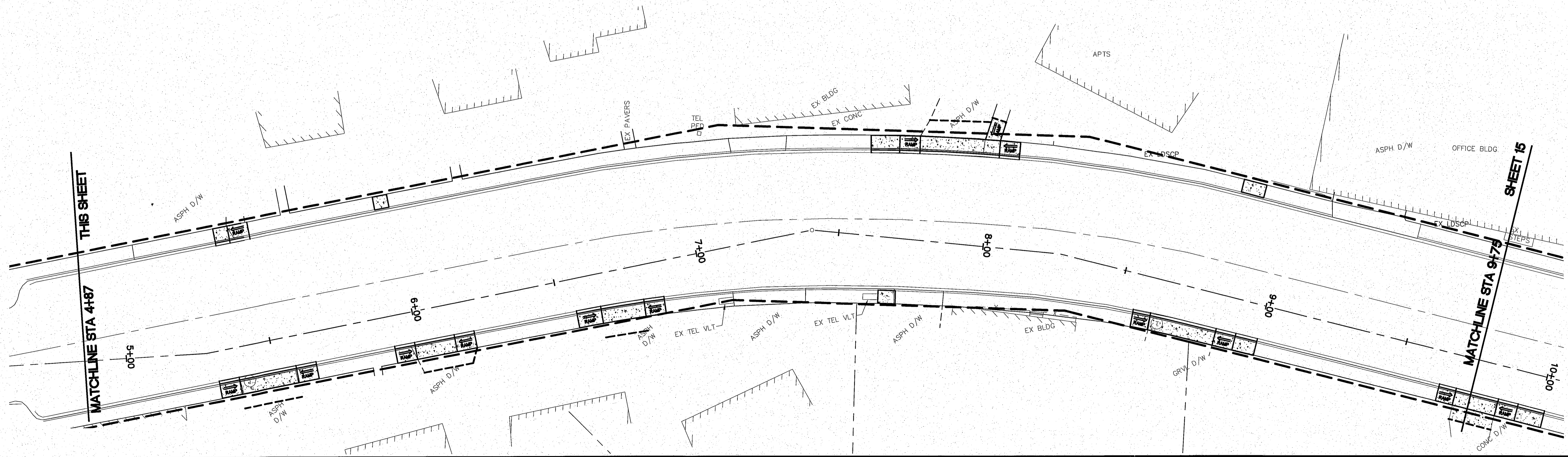
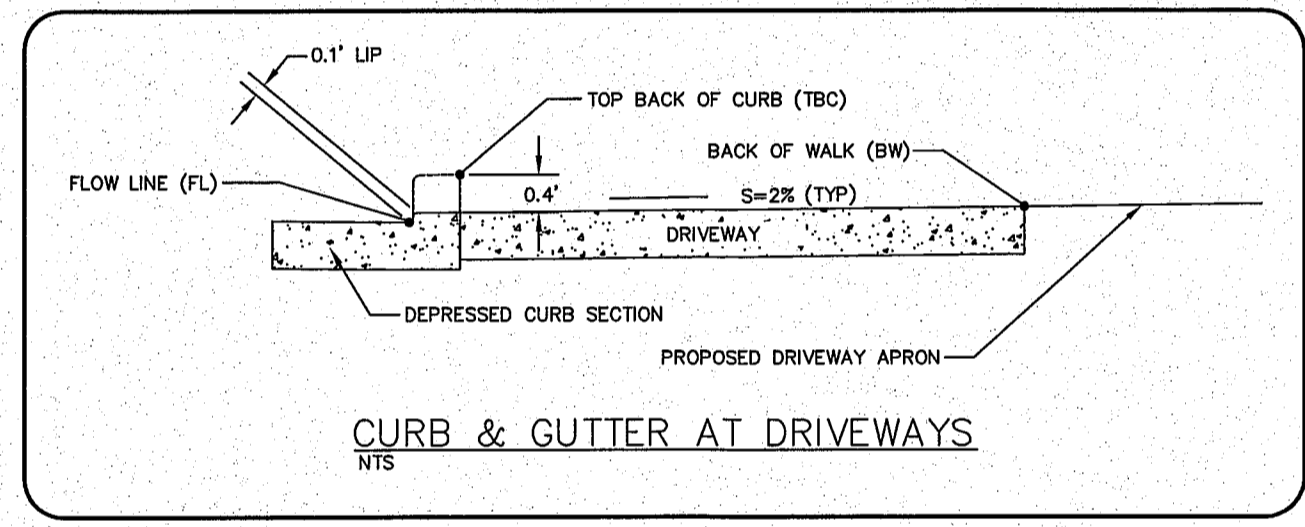
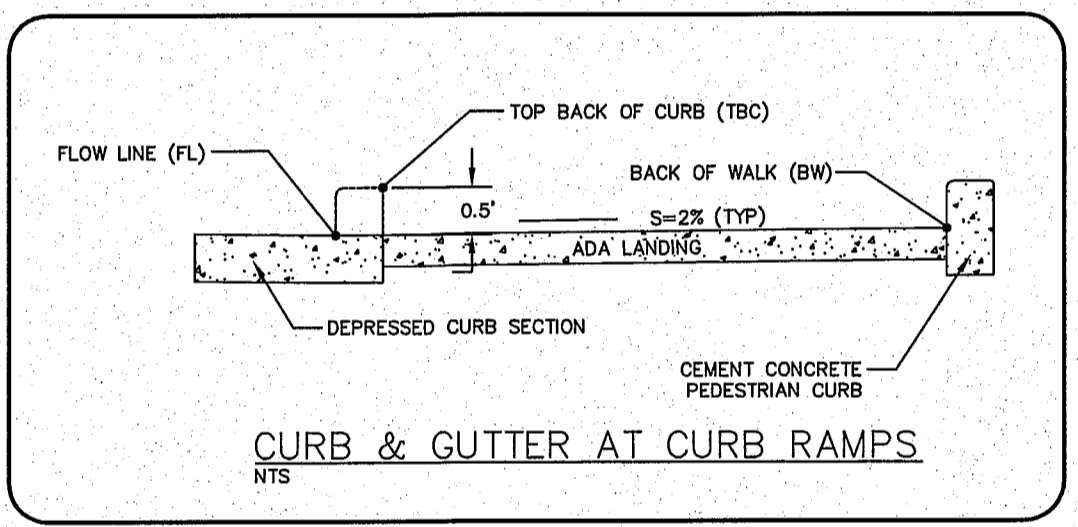
JOB# / DWG 13006 PROP-DESIGN
SCALE H: 1"=20' V: 1"=2'

DATE 4-24-13
SHEET 13 of 22

00569 014 8/21/14 8th

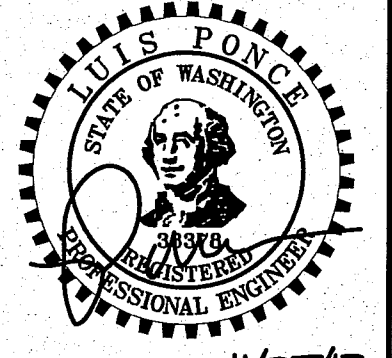
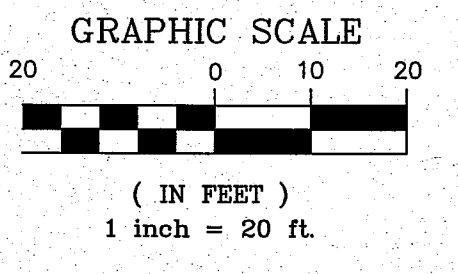
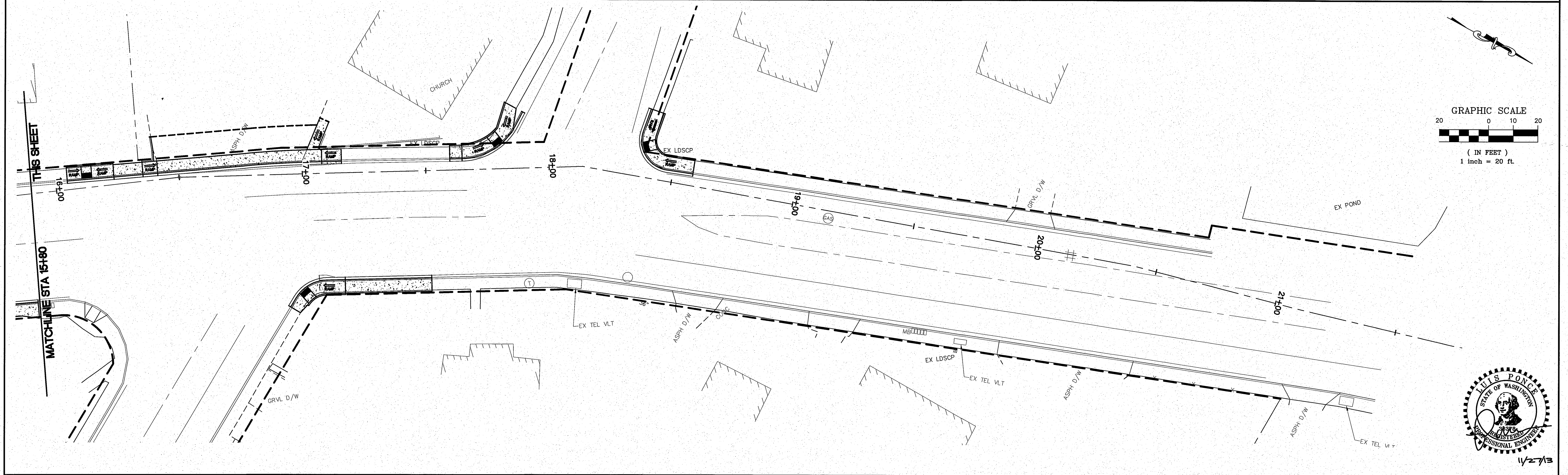
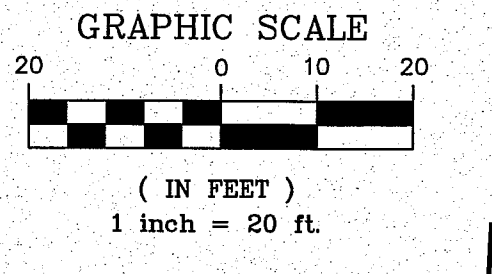
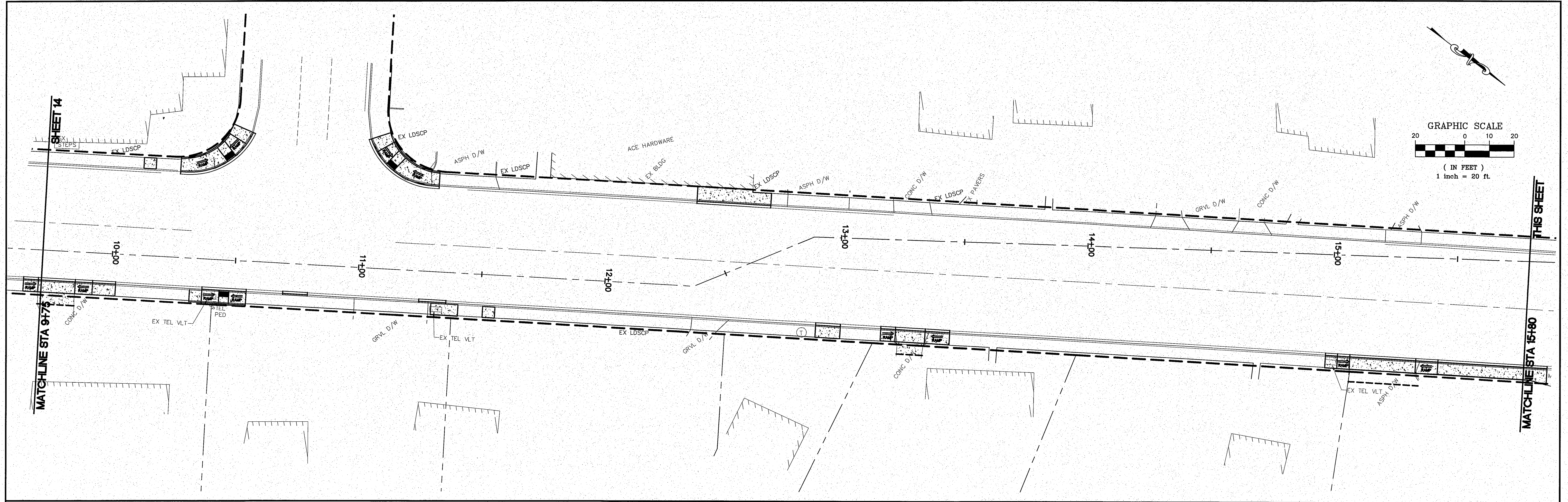


- ABBREVIATIONS**
- BW = BACK OF WALK
 - FG = FINISHED GRADE
 - FL = FLOW LINE
 - TBC = TOP BACK OF CURB
 - PC = POINT OF CURVATURE
 - PT = POINT OF TANGENCY



11/27/13 AS-BUILT	DESIGNED BY LP		CITY OF FERNDAL 2095 MAIN ST FERNDAL, WA 98248	VISTA IMPROVEMENTS GRADING PLAN STA: 0+00 TO STA: 9+75	JOB# / DWG 13006 DEMO	DATE 4-24-13
	DRAWN BY LMC				SCALE H: 1"=20'	V: N/A
CHECKED BY	423 Front St, Lynden, WA 98264 (360) 354-3687 813 Metcalf St, Sedro-Woolley, WA 98284 (360) 855-1713	NO. DATE REVISION BY				

AS 11/27/13 005609.015 @ 2/12/18



11/27/13

11/27/13 AS-BUILT

DESIGNED BY LP
DRAWN BY LMC
CHECKED BY

R&E Reichardt & Ebe
ENGINEERING INC
423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

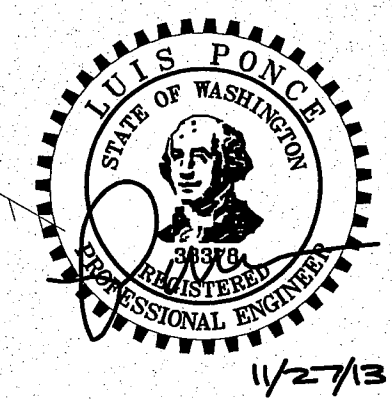
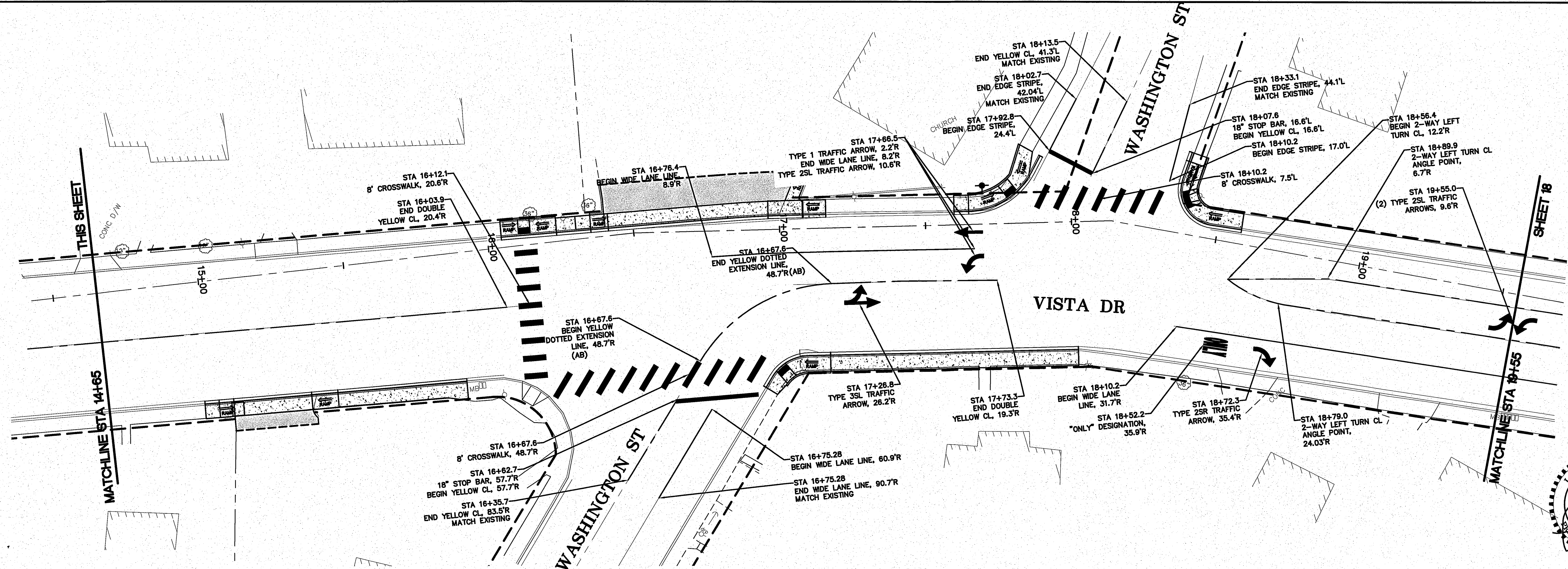
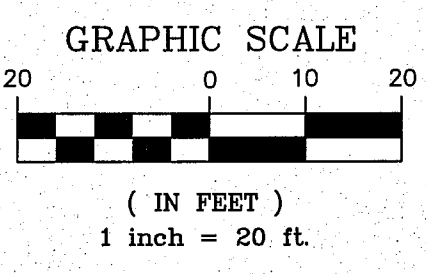
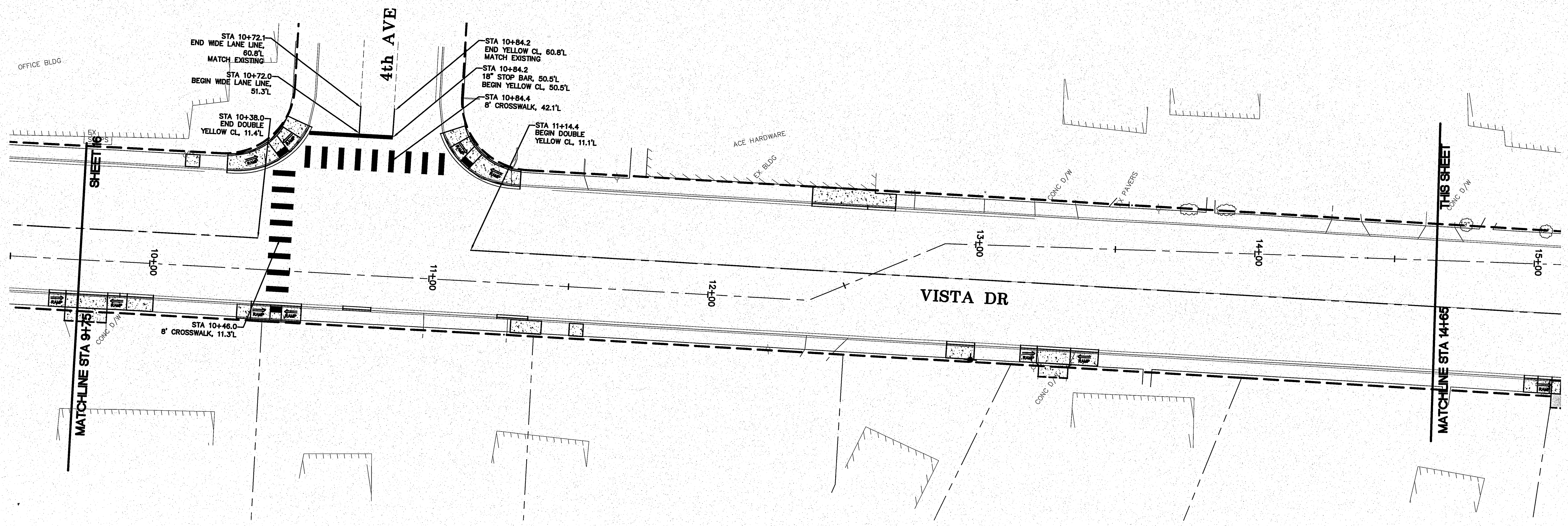
NO.	DATE	REVISION	BY

CITY OF FERDALE
2095 MAIN ST
FERDALE, WA

VISTA IMPROVEMENTS
GRADING PLAN
STA: 9+75 TO END

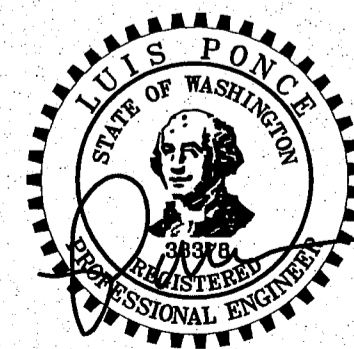
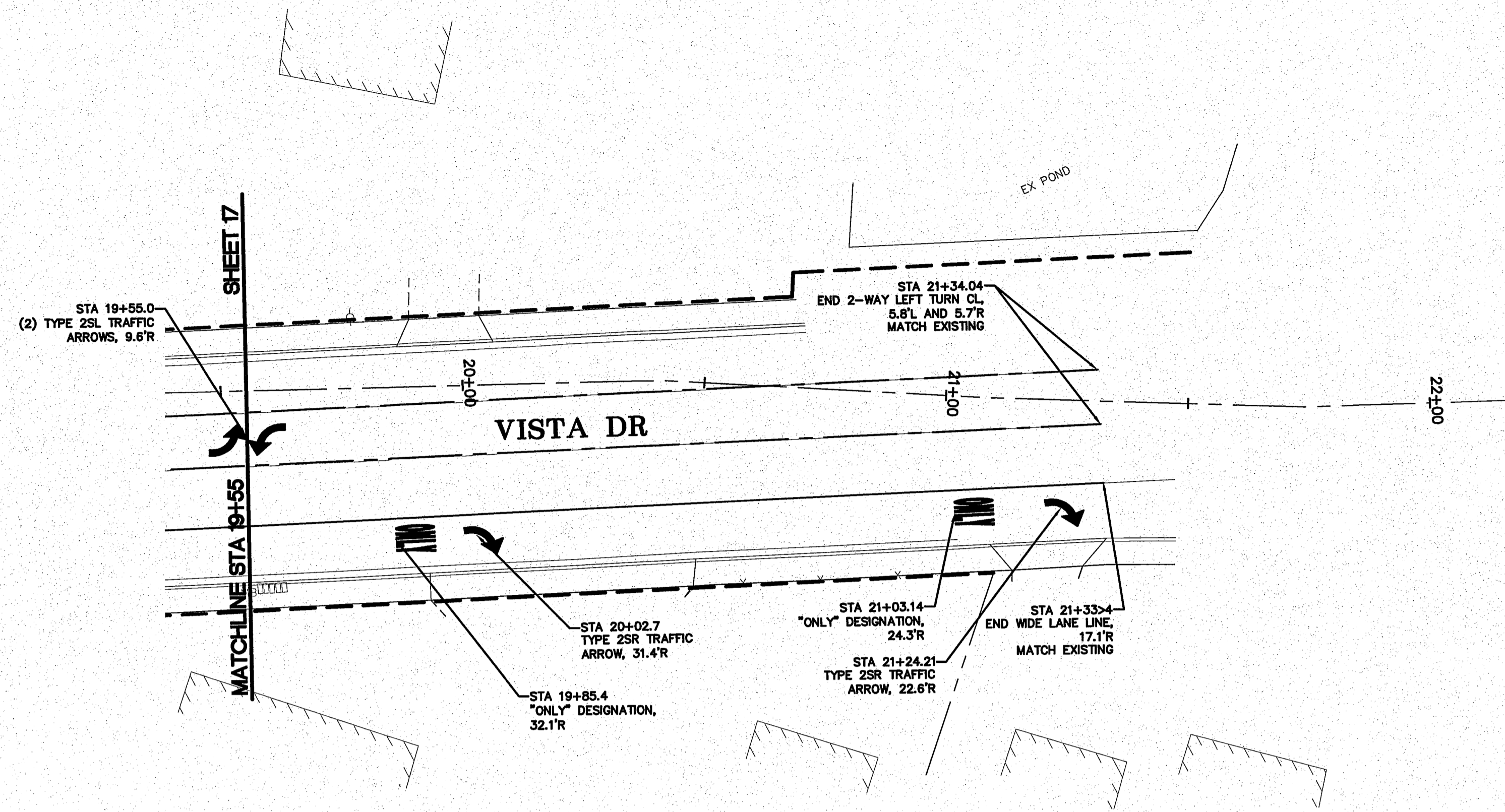
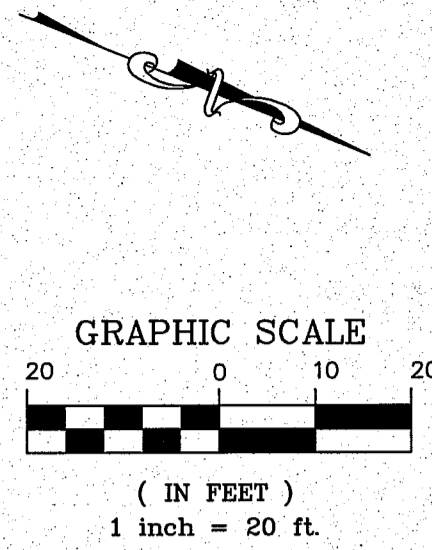
JOB# / DWG	13006	DEMO	DATE	4-24-13
SCALE	H: 1"=20'	V: N/A	SHEET	15 of 22

00569.017 8/21/14 SH



11/27/13 AS-BUILT	DESIGNED BY LP	 REICHHARDT & EBE ENGINEERING INC. 423 Front St, Lynden, WA 98264 (360) 354-3687 813 Metcalf St, Sedro-Woolley, WA 98284 (360) 855-1713	NO.	DATE	REVISION	BY	CITY OF FERDALE 2095 MAIN ST FERDALE, WA 98248	VISTA SEWER RECONSTRUCTION CHANNELIZATION PLAN	JOB# / DWG 13006 CHAN	DATE 4-24-13
	DRAWN BY LMC		CHECKED BY	SCALE H: 1" = 20' V: n/a	SHEET 17 of 22					

00569.018 8/21/14 SH



11/27/13

11/27/13
AS-BUILT

DESIGNED BY
LP
DRAWN BY
LMC
CHECKED BY



423 Front St, Lynden, WA 98264 (360) 354-3687
813 Metcalf St, Sedro-Woolley, WA 98284 (360) 855-1713

NO.	DATE	REVISION	BY

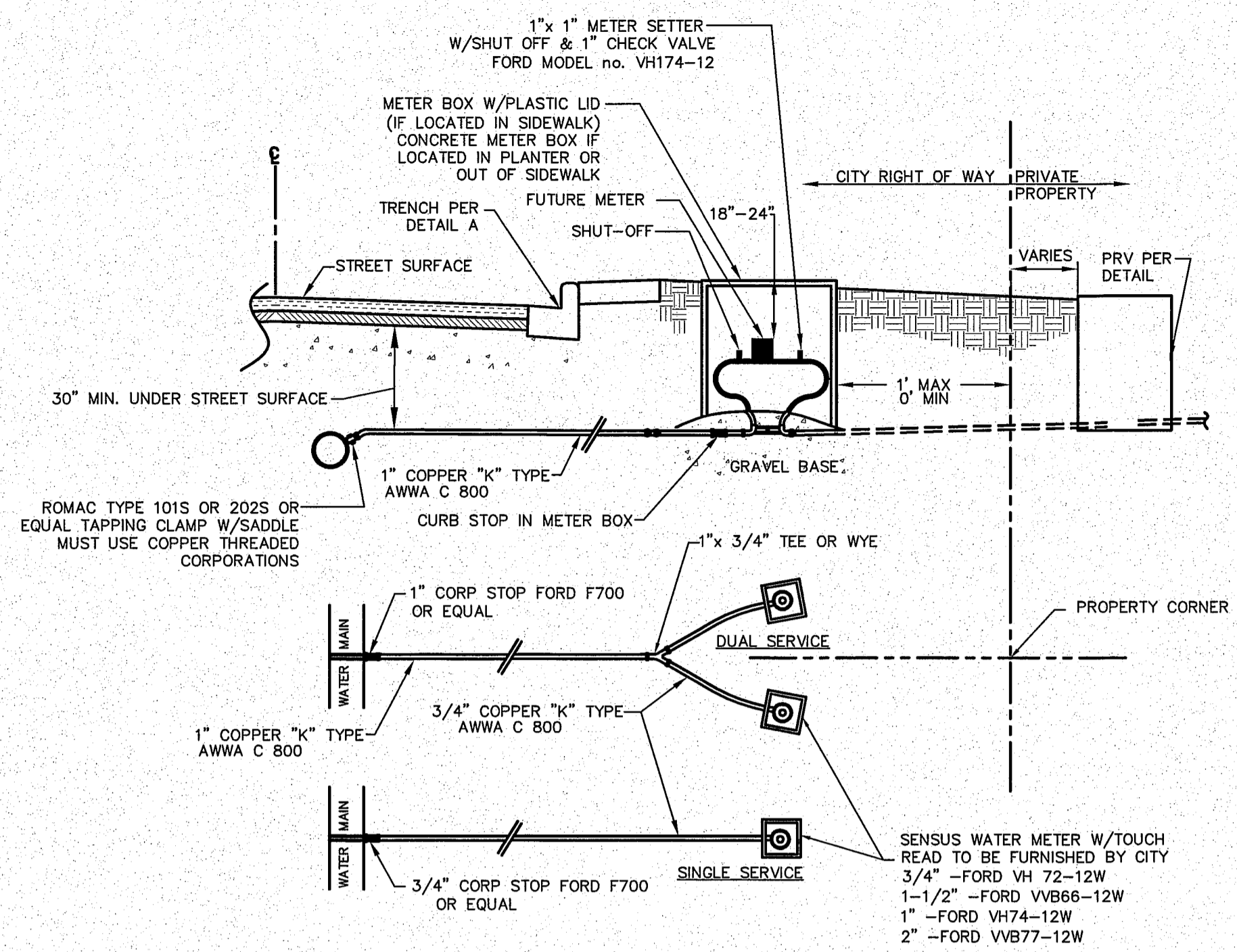
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

VISTA SEWER RECONSTRUCTION
CHANNELIZATION PLAN

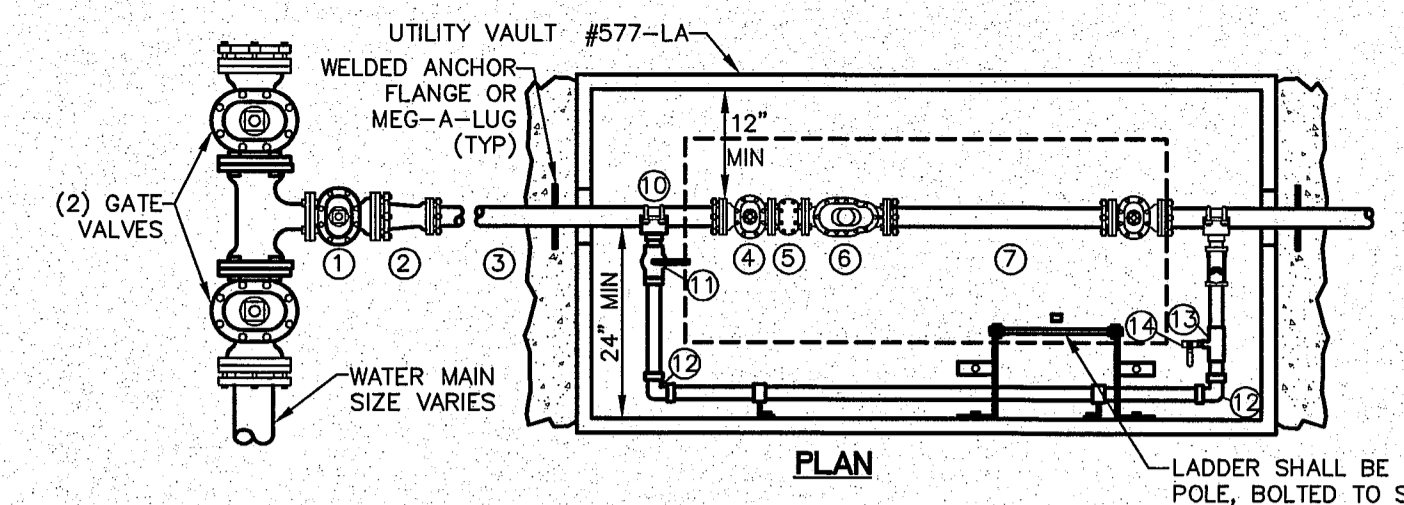
JOB# / DWG
13006 CHAN
SCALE
H: 1"=20' V: n/a

DATE
4-24-13
SHEET
18 of 22

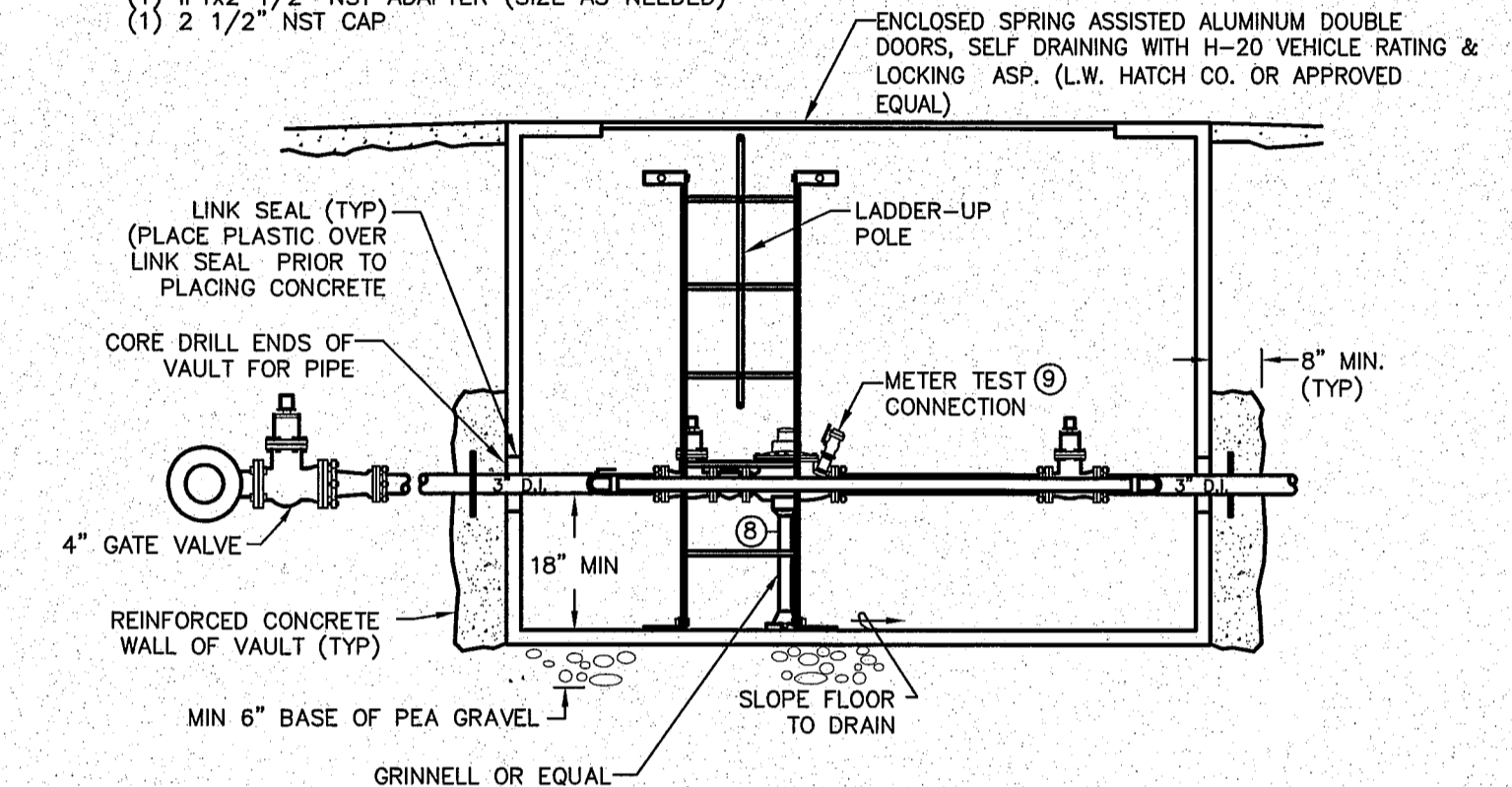
00569.019 8/17/14 SH



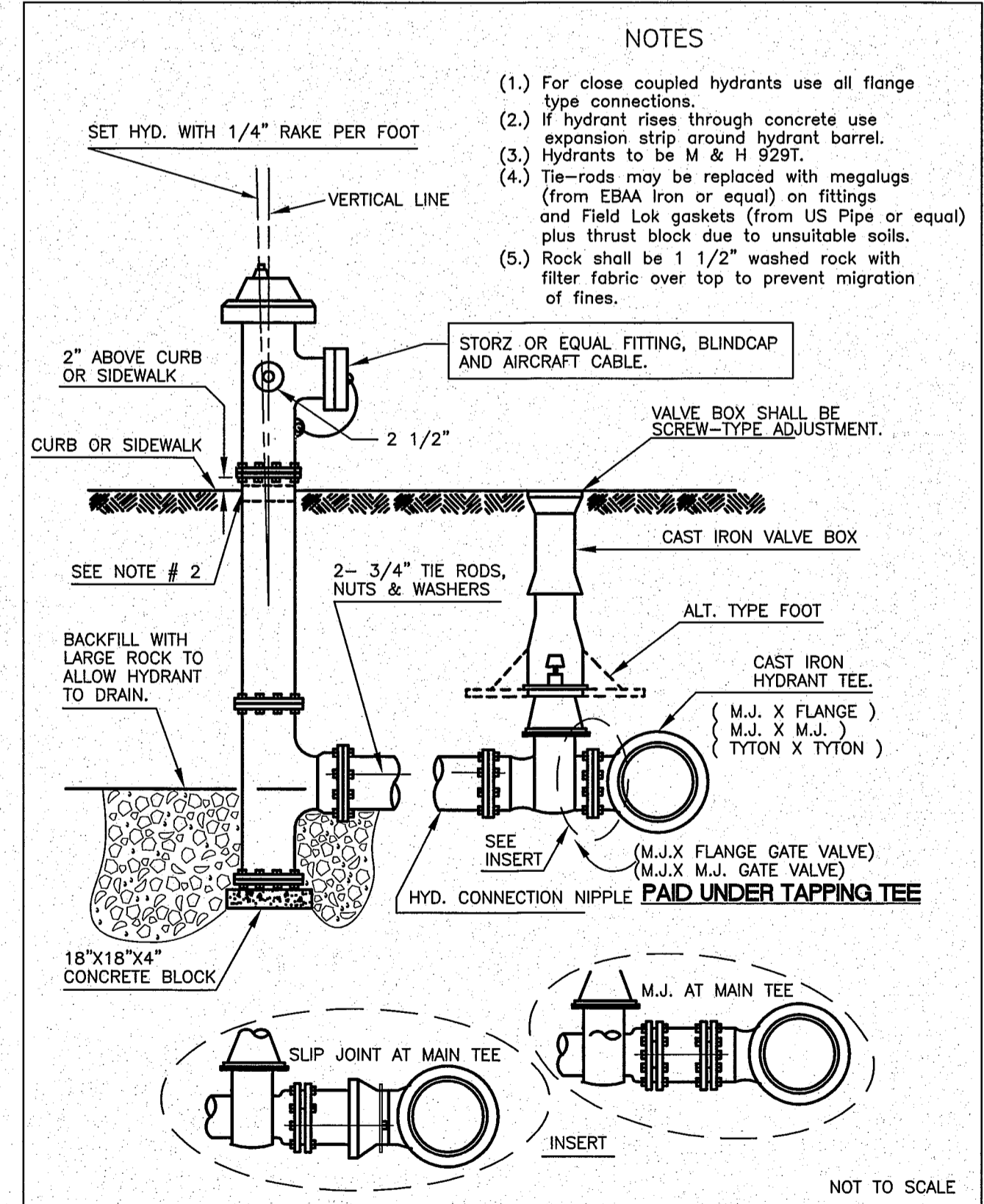
WATER SERVICE CONNECTION DETAIL
NTS



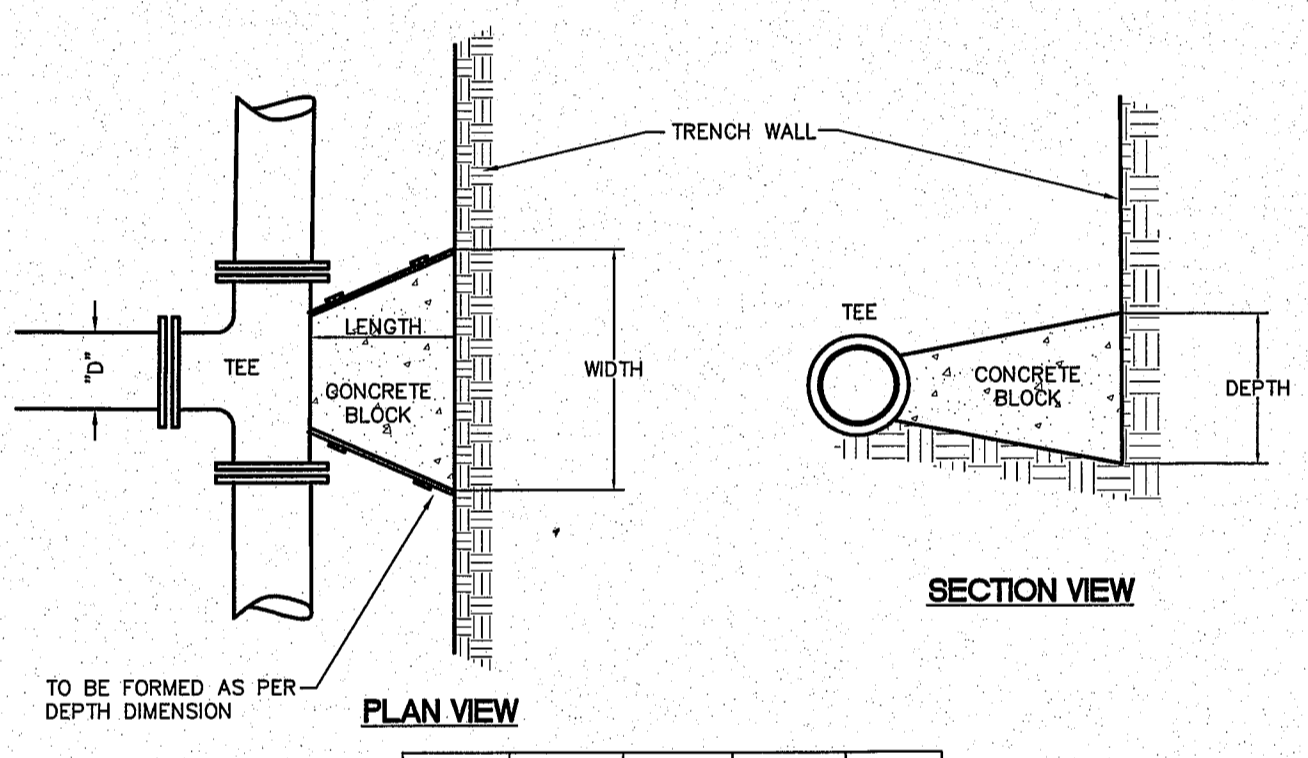
- ① (1) 4" GATE VALVE (FL)
- ② (1) 4"x3" REDUCER (FJXRJ) (ONLY W/ 3" METER)
- ③ 3" OR 4" D.I. PIPE, LENGTH AS REQUIRED
- ④ (2) 3" OR 4" GATE VALVES (FLXRJ), WHEEL OPERATED
- ⑤ (1) 3" OR 4" BRONZE BASKET STRAINER (FL)
- ⑥ (1) 3" OR 4" SENSUS TOUCH READ METER (FL) WITH TEST NIPPLE & VALVE
- ⑦ (1) 3" OR 4" UNI-FLANGE SPOOL, LENGTH AS REQ'D
- ⑧ (2) ADJUSTABLE PIPE SUPPORTS
- ⑨ 2-1/2" NST (FIRE HOSE) METER TEST CONNECTION:
 - (1) BRASS NIPPLE (LENGTH AND SIZE AS NEEDED)
 - (1) BRASS GATE VALVE (SIZED AS NEEDED)
 - (1) IPTx2 1/2" NST ADAPTER (SIZE AS NEEDED)
 - (1) 2 1/2" NST CAP
- ⑩ 2" BY-PASS ASSEMBLY:
 - (1) 2" SADDLES W/ STAINLESS STL DOUBLE STRAPS
 - (1) 2" BALL VALVE (IP)
 - (2) 2" 90° BENDS (IP)
 - (1) 2" X 3/4" TEE (IP)
 - (1) 3/4" BALL VALVE (IP)
 - (2" PIPE (LENGTH AS NEEDED)
 - SECURE PIPE TO VAULT WALL
 - ALL 2" PIPE & FITTINGS SHALL BE BRASS.



CITY OF FERNDALE
3" METER INSTALLATION
NTS

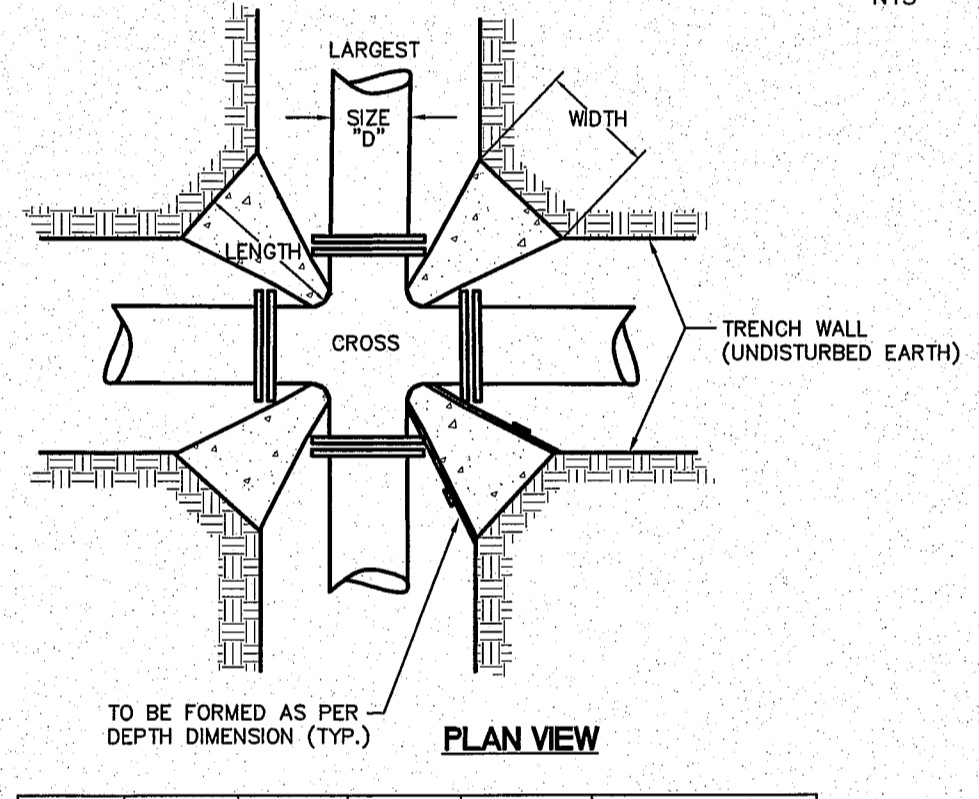


APPROVED _____ DATE _____
Public Works Director
CITY OF FERNDALE
FIRE HYDRANT ASSEMBLY
DRAWING W-1
NOT TO SCALE



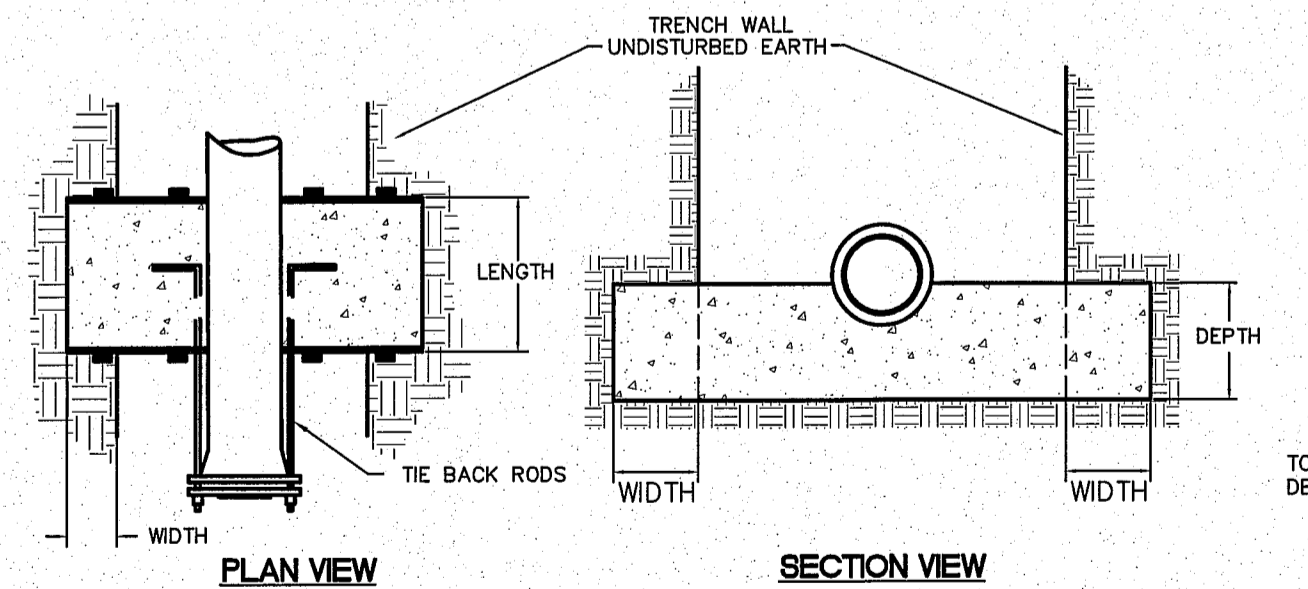
"D"	WIDTH	DEPTH	LENGTH	VOL.
6"	1'-6"	1'-6"	12"	3.0
8"	2'-0"	2'-0"	12"	4.5
10"	2'-6"	2'-6"	12"	7.0
12"	3'-0"	3'-0"	18"	14.0

VOL. = Approx. Volume of Blocking Material Required in cu. ft.
SOIL BEARING CAPACITY 1500 PSF MINIMUM
100 P.S.I. OPERATING PRESSURE



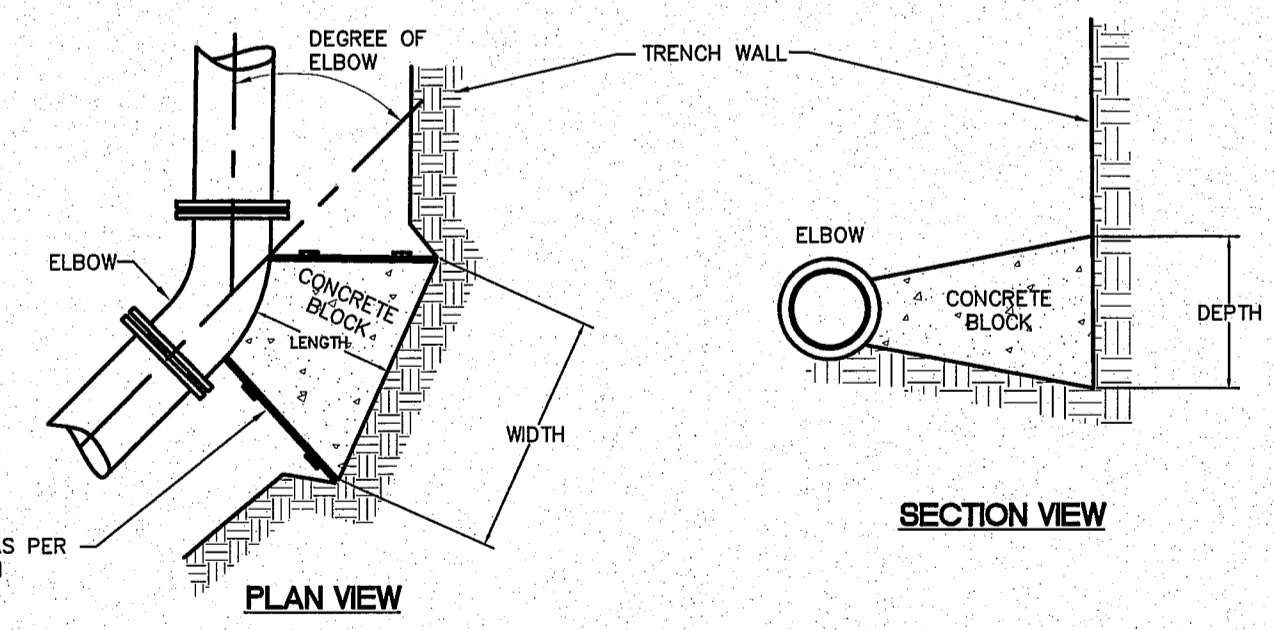
"D"	WIDTH	DEPTH	LENGTH	VOL.	X4 blocks/joint
6"	1'-0"	1'-0"	12"	0.63	2.50 cu ft
8"	1'-3"	1'-3"	12"	1.00	4.01 cu ft
10"	1'-6"	1'-6"	12"	1.63	6.50 cu ft
12"	1'-9"	1'-9"	18"	3.05	12.19 cu ft

VOL. = Approx. Volume of Blocking Material Required in cu. ft.



"D"	WIDTH	DEPTH	LENGTH	*VOL.	# OF RODS	ROD DIA.
6"	1'-6"	1'-6"	12"	7.5	2	1/2"
8"	2'-0"	2'-0"	18"	20.0	2	5/8"
10"	2'-6"	2'-6"	24"	37.5	2	3/4"
12"	2'-9"	2'-9"	24"	44.0	4	3/4"

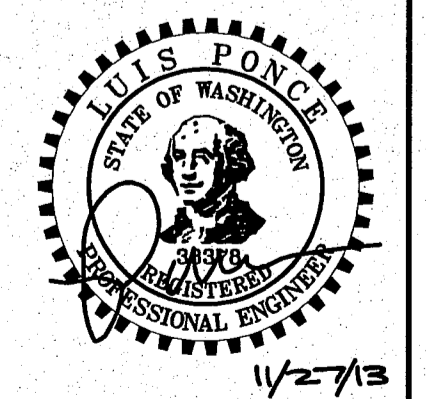
*VOL. = Approx. Volume of Blocking Material Required in cu. ft.
RODS: A36 STEEL MINIMUM



SIZE	LENGTH	11 1/4'			22 1/2'			45'			90'		
		WIDTH	DEPTH	VOL.	WIDTH	DEPTH	VOL.	WIDTH	DEPTH	VOL.	WIDTH	DEPTH	VOL.
6"	12"	1'-0"	1'-0"	0.63	1'-0"	1'-0"	0.63	1'-6"	1'-6"	1.25	2'-3"	1'-6"	1.88
8"	12"	1'-3"	1'-3"	1.00	1'-3"	1'-3"	1.00	1'-9"	1'-9"	1.75	3'-0"	2'-0"	3.33
10"	12"	1'-9"	1'-6"	1.72	1'-9"	1'-6"	1.72	2'-3"	2'-3"	2.88	3'-6"	2'-6"	4.86
12"	18"	2'-0"	1'-9"	3.48	2'-0"	1'-9"	3.48	2'-9"	2'-6"	5.98	4'-0"	3'-0"	10.00

VOL. = Approx. Volume of Blocking Material Required in cu. ft.

THRUST BLOCKING
NTS



11/27/13
AS-BUILT

DESIGNED BY LP
DRAWN BY LMC
CHECKED BY

R&E Reichhardt & Ebe
ENGINEERING INC
423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

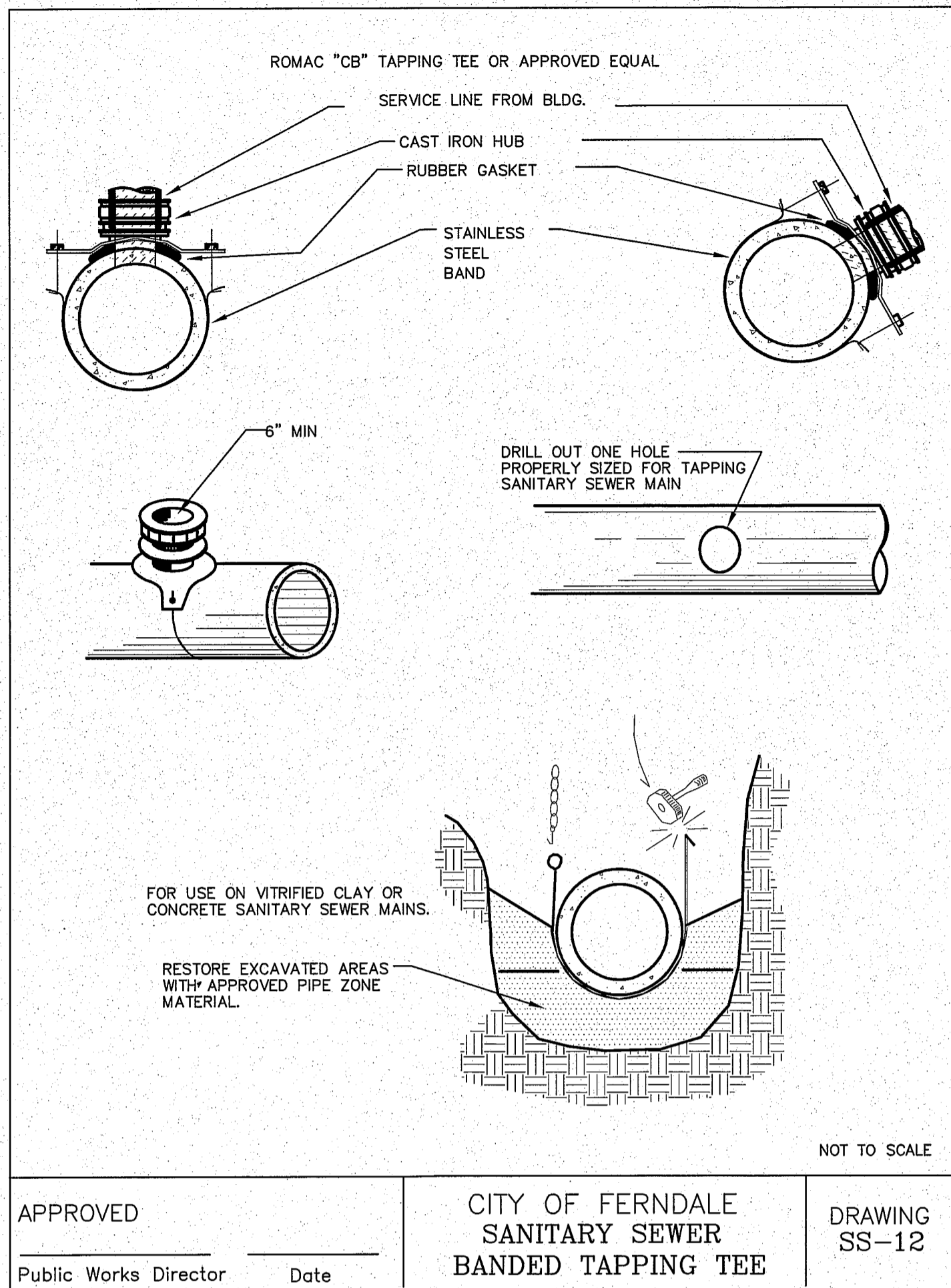
NO.	DATE	REVISION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

VISTA SEWER RECONSTRUCTION
WATER DETAILS

JOB# / DWG	DATE
13006 DET	4-24-13
SCALE	SHEET
H: N/A V: N/A	19 of 22

AS-BUILT 020 8/21/14 SH



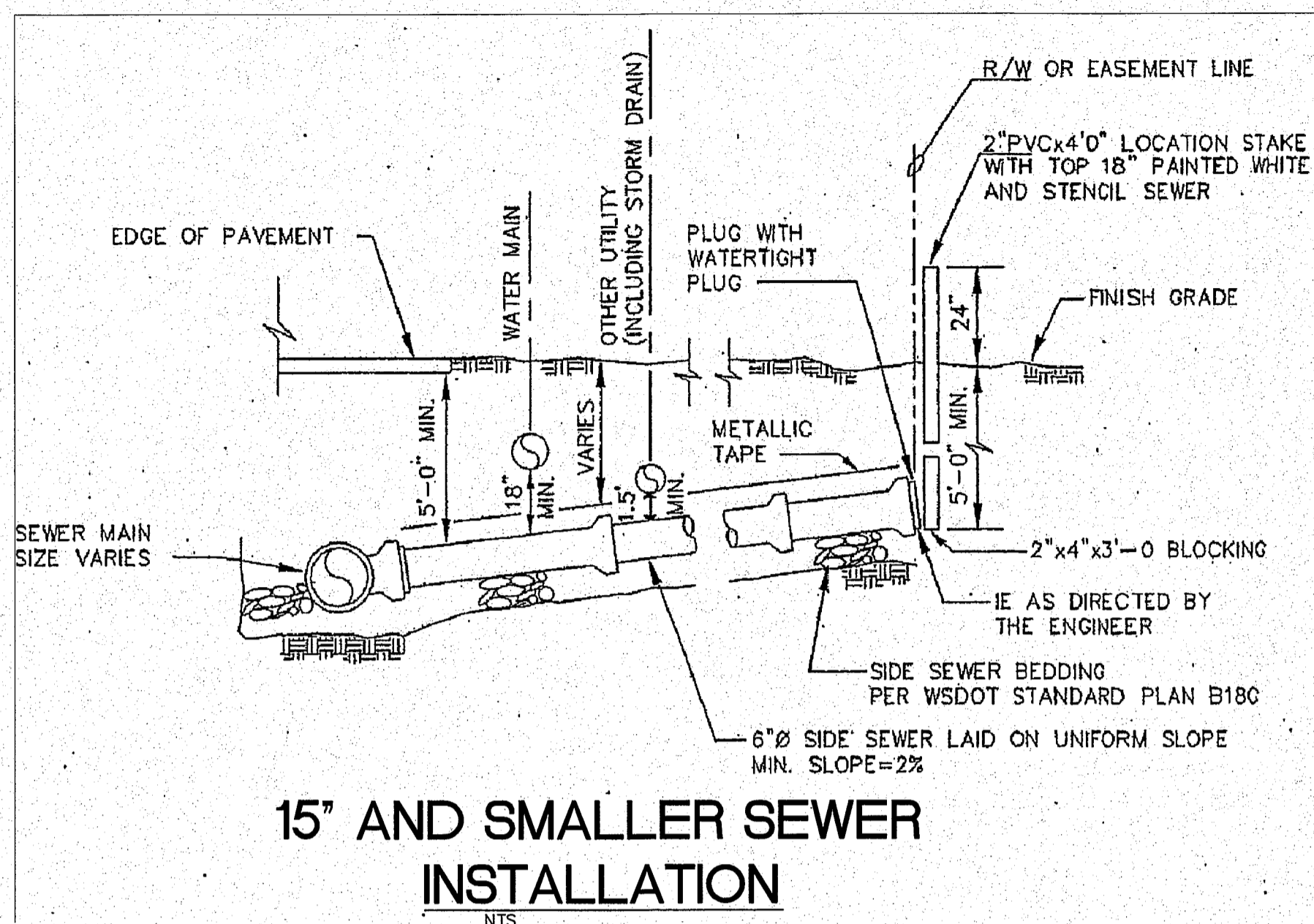
APPROVED _____
Public Works Director Date

CITY OF FERNDALE
SANITARY SEWER
BANDED TAPPING TEE

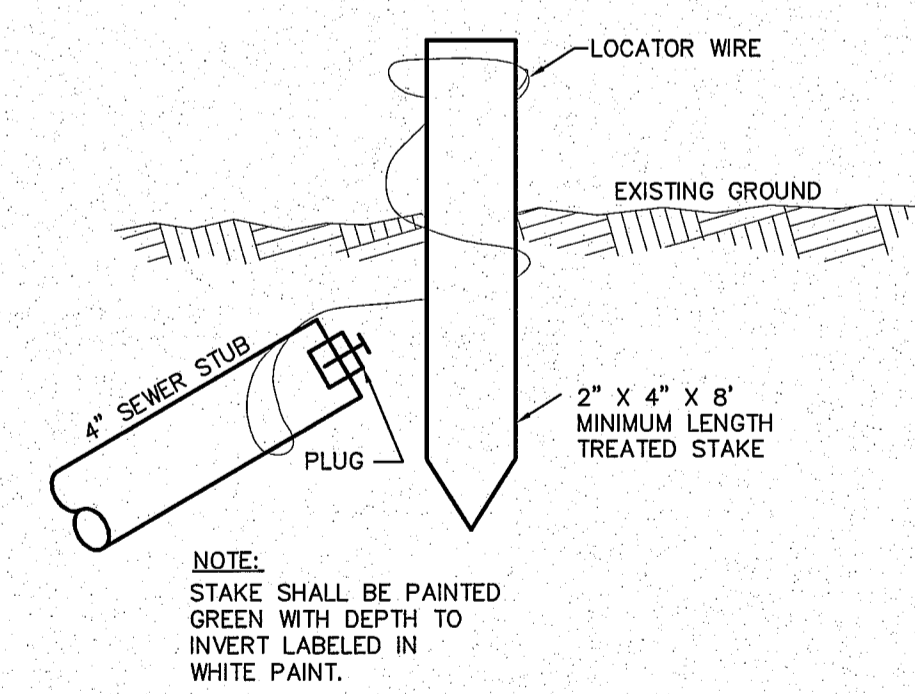
DRAWING
SS-12

NOT TO SCALE

JULY 2001

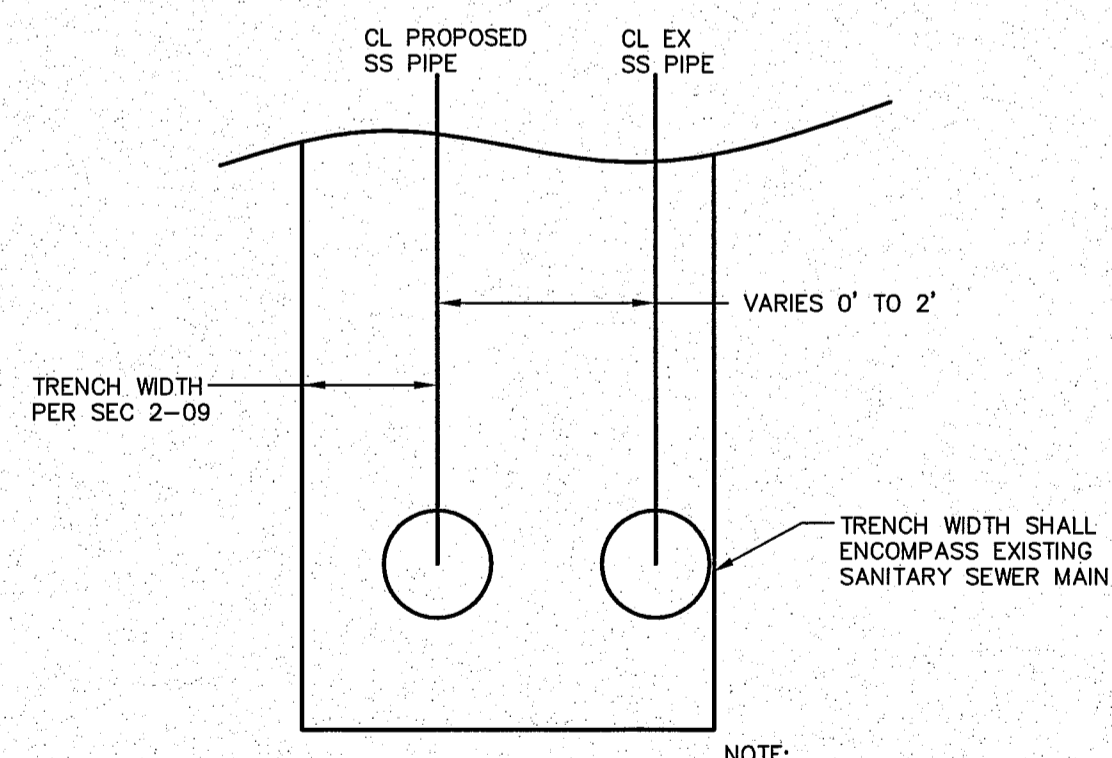


15" AND SMALLER SEWER INSTALLATION
NTS



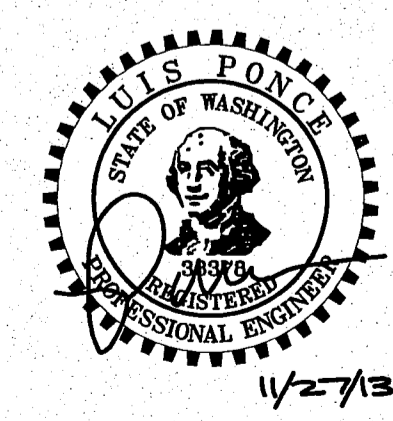
SEWER SERVICE STAKE
NTS

NOTE:
STAKE SHALL BE PAINTED GREEN WITH DEPTH TO INVERT LABELED IN WHITE PAINT.



TYPICAL SANITARY SEWER TRENCH SECTION
MH 14 TO MH 12
NTS

NOTE:
OTHER TRENCH DETAILS NOT SHOWN FOR CLARITY



11/27/13

11/27/13 AS-BUILT

DESIGNED BY LP
DRAWN BY LMC
CHECKED BY

R&E Reichhardt & Ebe ENGINEERING INC
423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

NO.	DATE	REVISION	BY

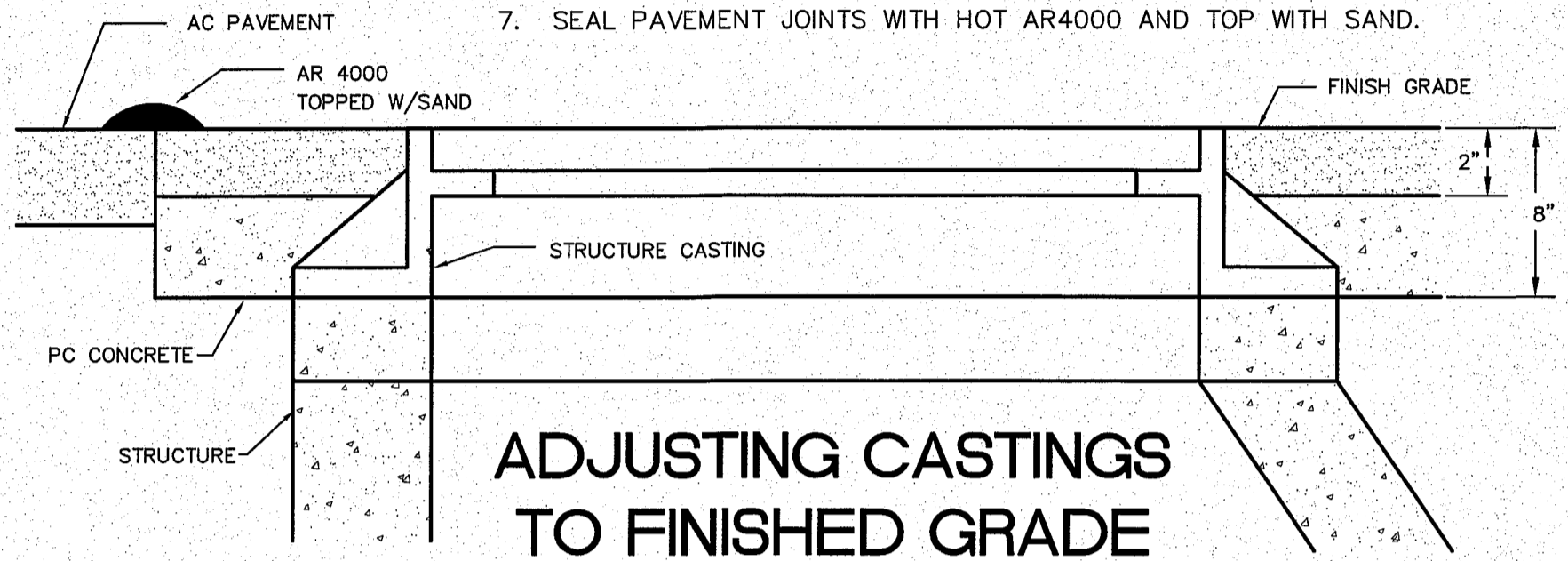
CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

VISTA SEWER RECONSTRUCTION
SEWER DETAILS

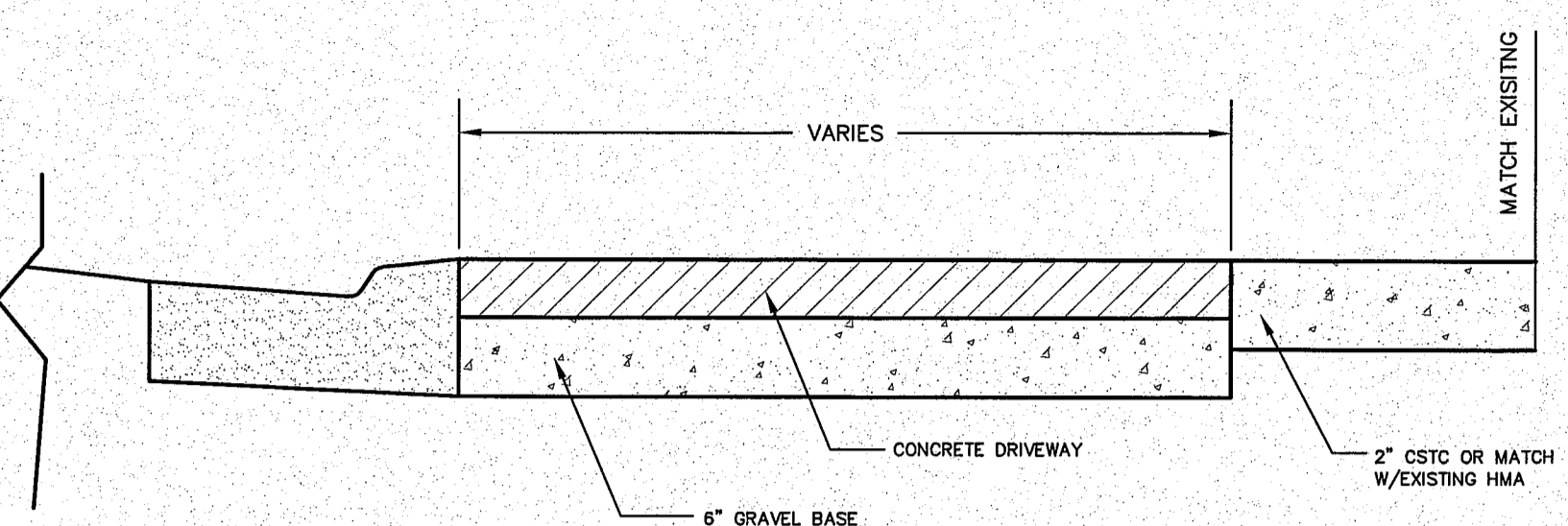
JOB# / DWG 13006	DET DET	DATE 4-24-13
SCALE H: N/A	V: N/A	SHEET 20 of 22

NOTES:

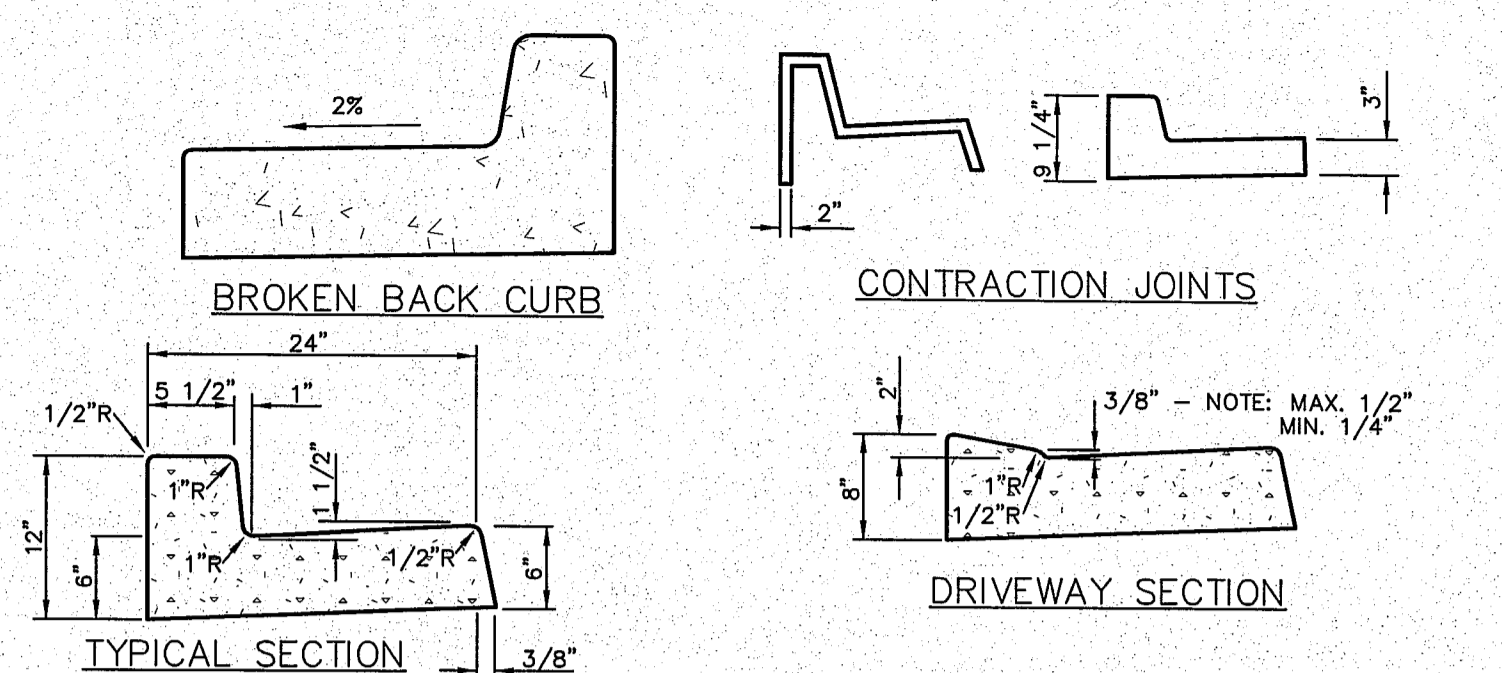
- ALL FRAMES, COVERS AND VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADE AFTER THE FINAL LIFT OF PAVING HAS BEEN COMPLETED. THE FOLLOWING PROCEDURE SHALL BE USED:
- CUT THE ASPHALT IN AN EVEN CIRCLE AROUND THE STRUCTURE CASTING TO BE ADJUSTED.
 - REMOVE THE FILL MATERIAL WITHIN THE CUT PAVEMENT AREA TO 8 INCHES MIN. BELOW FINISH GRADE.
 - PLACE THE CASTING AT FINISH GRADE.
 - PLACE PORTLAND CEMENT CONCRETE TO WITHIN THE TOP 2 INCHES OF FINISH GRADE.
 - APPLY TACK TO THE STRUCTURE CASTING, CUT PAVEMENT, AND PC CONCRETE.
 - PLACE AND COMPACT 2 INCHES OF HMA TO FINISH GRADE.
 - SEAL PAVEMENT JOINTS WITH HOT AR4000 AND TOP WITH SAND.



ADJUSTING CASTINGS TO FINISHED GRADE
NTS



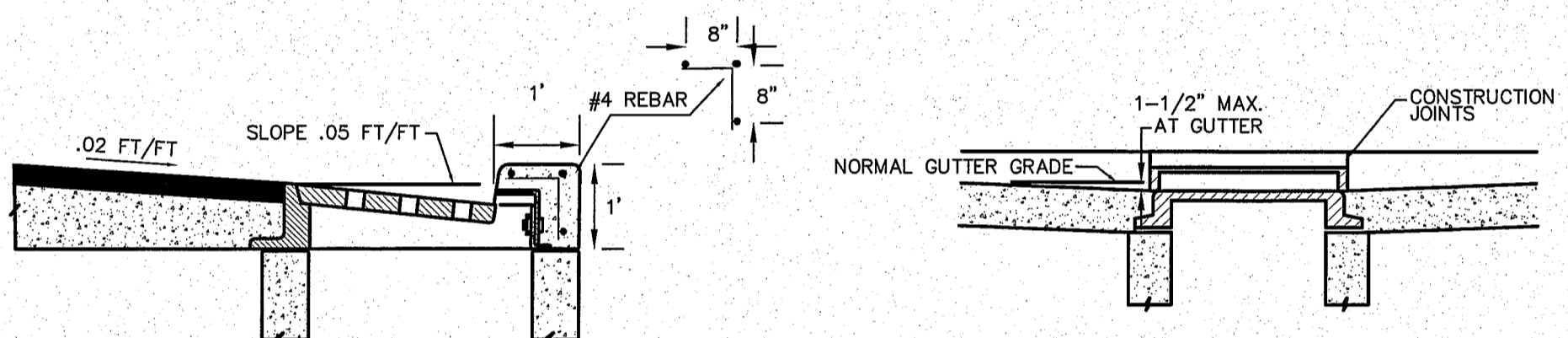
PROPOSED DRIVEWAY SECTION
NTS



NOTES:
CONTRACTION JOINTS OF ONE OF THE TYPES SHOWN ABOVE TO BE PLACED 10' C/C. JOINTS COMPLETELY SEVER THE STRUCTURE TO THE POINTS SHOWN. JOINTS MAY BE MADE BY INSERTING MIN. 3/16\" BITUMINOUS FILLER DUMMY JOINTS. JOINTS SHALL BE CLEANED AND EDGED.
3/4\" EXPANSION JOINTS TO BE PLACED AT DRIVEWAY SECTIONS, CURB RETURNS, CURB RAMPS AND COLD JOINTS OR A MAX. OF 80' C/C. EXPANSION JOINTS SHALL PROTRUDE 1\" BELOW THE BOTTOM OF THE GUTTER.
CURB DRAINS SHALL BE CONSTRUCTED OF 2\" PVC PIPE OR OTHER MATERIAL SUBJECT TO APPROVAL OF THE ENGINEER, CUT TO LENGTH TO PASS FROM THE BACK OF CURB THROUGH THE CURB TO THE FACE OF THE CURB AT THE GUTTER LINE. SPACING WILL BE MAXIMUM OF 50 FEET, CENTER TO CENTER, AND/OR EACH SIDE OF THE DRIVEWAYS AND AT SUCH LOCATIONS AS DESIGNATED BY THE ENGINEER.

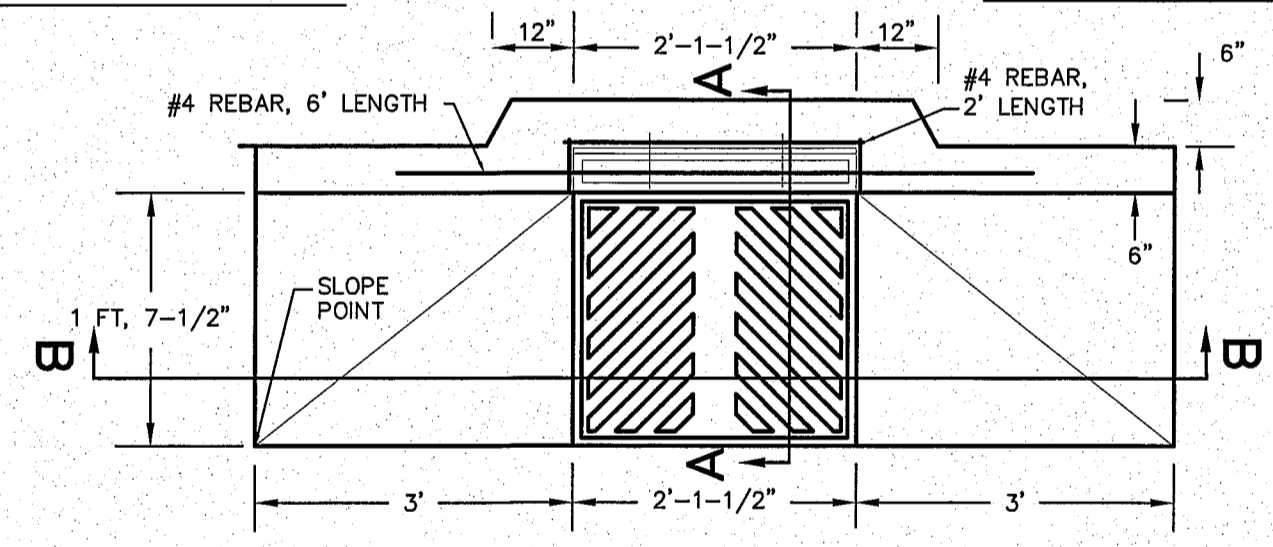
CURB AND GUTTER DETAILS

NTS

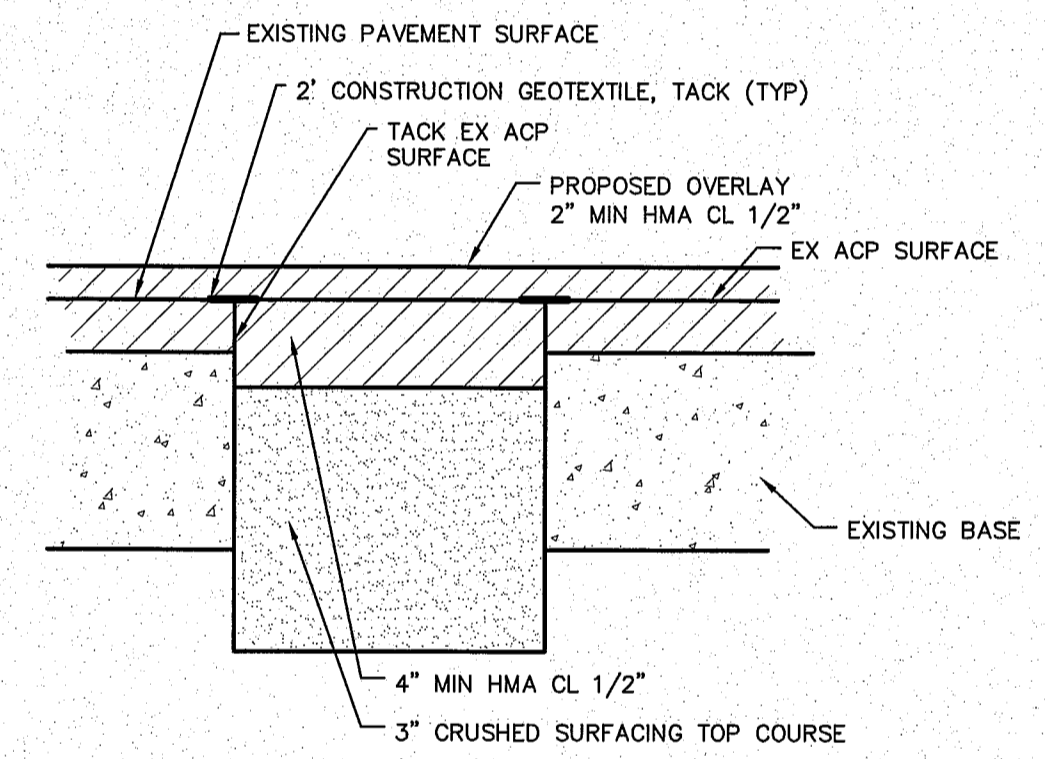


SECTION A-A

SECTION B-B

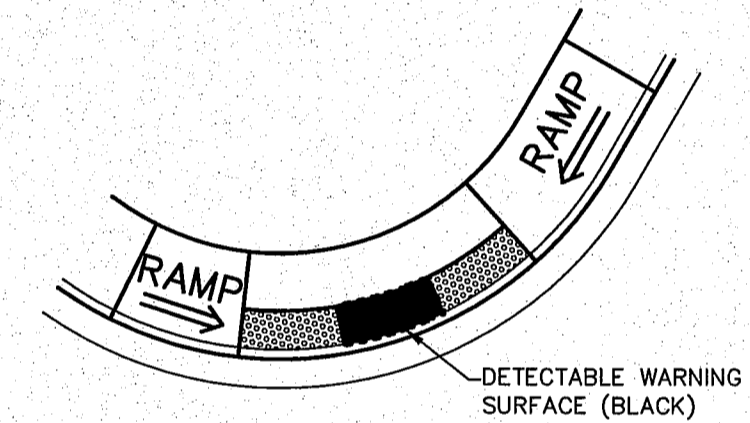


THRU CURB INLET DETAIL
NTS



PAVEMENT REPAIR EXCAVATION INCLUDING HAUL SECTION

NTS NOTE: LOCATION, WIDTH AND LENGTH AS MARKED IN FIELD BY ENGINEER AND PER THE PAVEMENT REPAIR SCHEDULE.



SIDEWALK RAMP TYPE PARALLEL A (MODIFIED)
NTS



11/27/13

11/27/13 AS-BUILT

DESIGNED BY LP
DRAWN BY LMC
CHECKED BY

R&E Reichhardt & Ebe ENGINEERING INC
423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

NO.	DATE	REVISION	BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

VISTA SEWER RECONSTRUCTION
ROAD DETAILS

JOB# / DWG	DET	DATE
13006	DET	4-24-13
SCALE	V: N/A	SHEET
H: N/A	V: N/A	21 of 22

0569.021 8/21/14 SH

