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# VISTA AND MALLOY ROUNDAABOUT

CITY OF FERNDALE

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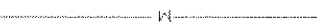



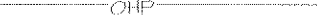



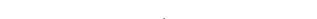












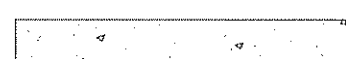





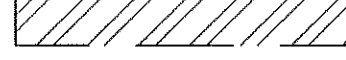








S1.) SIGNING PLAN

S2.) SIGN SPECIFICATION

IL1.) ILLUMINATION PLAN

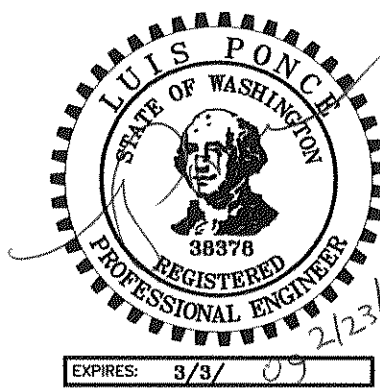
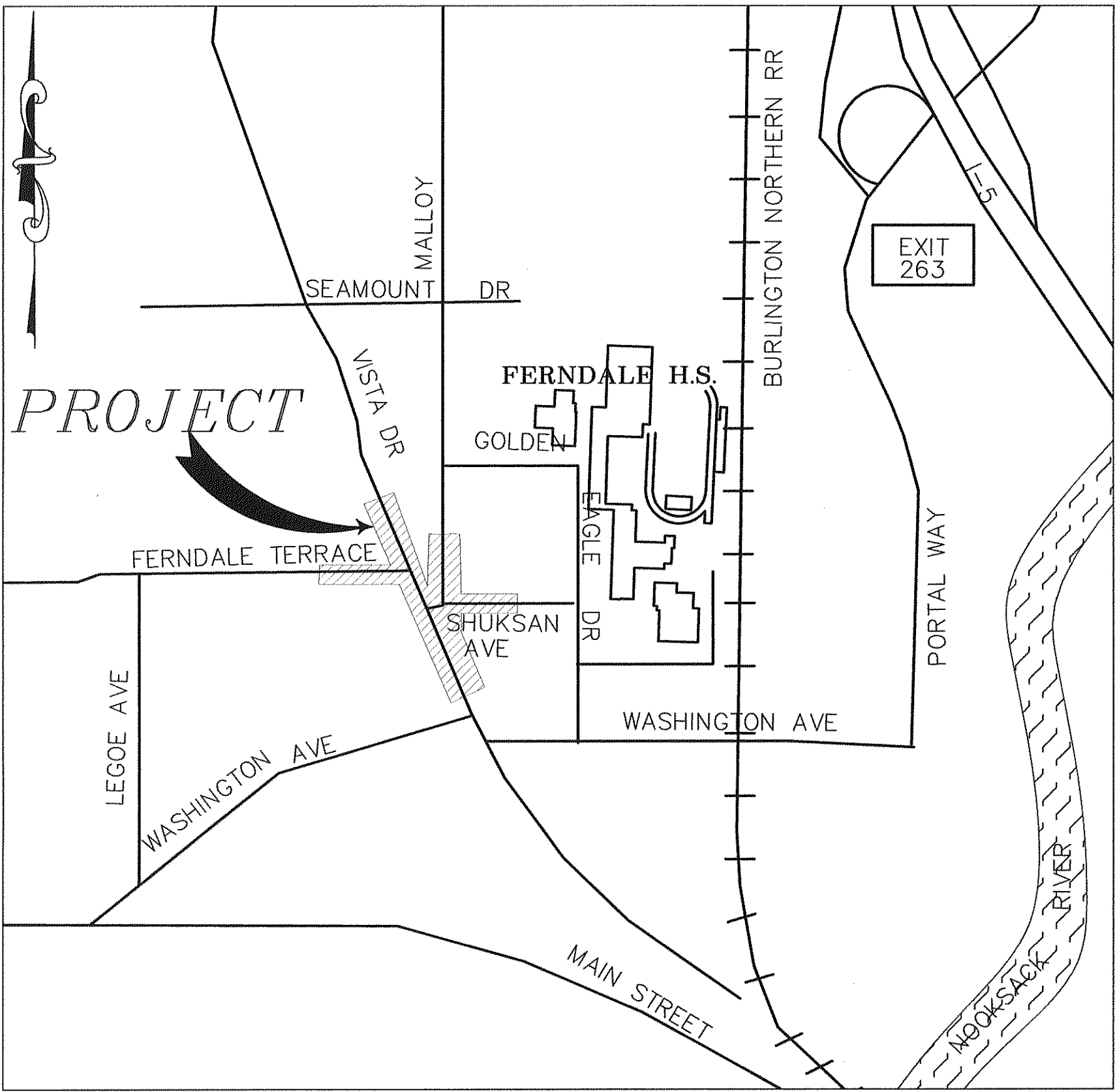
IL2.) LIGHT STANDARD  
FOUNDATION PLAN

## LEGEND

	EX PAINTED ROAD CENTERLINE		PROPOSED STORM LINE
	EX WATERMAIN		PROPOSED STORM CATCH BASIN
	EX PHONE LINE		PROPOSED STORM MANHOLE
	EX OVERHEAD POWER		PROPOSED SEWER MANHOLE
	EX GAS MAIN		PROPOSED SEWER MAIN
	EX STORM LINE		PROPOSED WATER MAIN
	EX SEWER LINE		PROPOSED HYDRANT
	EX ROAD TURTLES		PROPOSED WATER VALVE
	EX EDGE OF PAVEMENT		PROPOSED TRANSITION COUPLER
	EX STORM CATCH BASIN		PROPOSED SAWCUT
	EX STORM MANHOLE		PROPOSED ROUNDAABOUT
	EX UTILITY POLE		PROPOSED ACP REMOVAL
	EX HYDRANT		PROPOSED SIDEWALK REMOVAL
	EX VALVE		PROPOSED 2" DEPTH ACP PLANING
	EX SANITARY SEWER MANHOLE		PROPOSED DRIVEWAY RECONSTRUCTION
	EX WATER METER		PROPOSED WALL
	EX ROAD LIGHT		GAS LINE TRENCH
	EX ROW		
	EX PROPERTY LINE		
	EX EASEMENT		
	EX UTILITY LOCATE		

## VICINITY MAP

NTS



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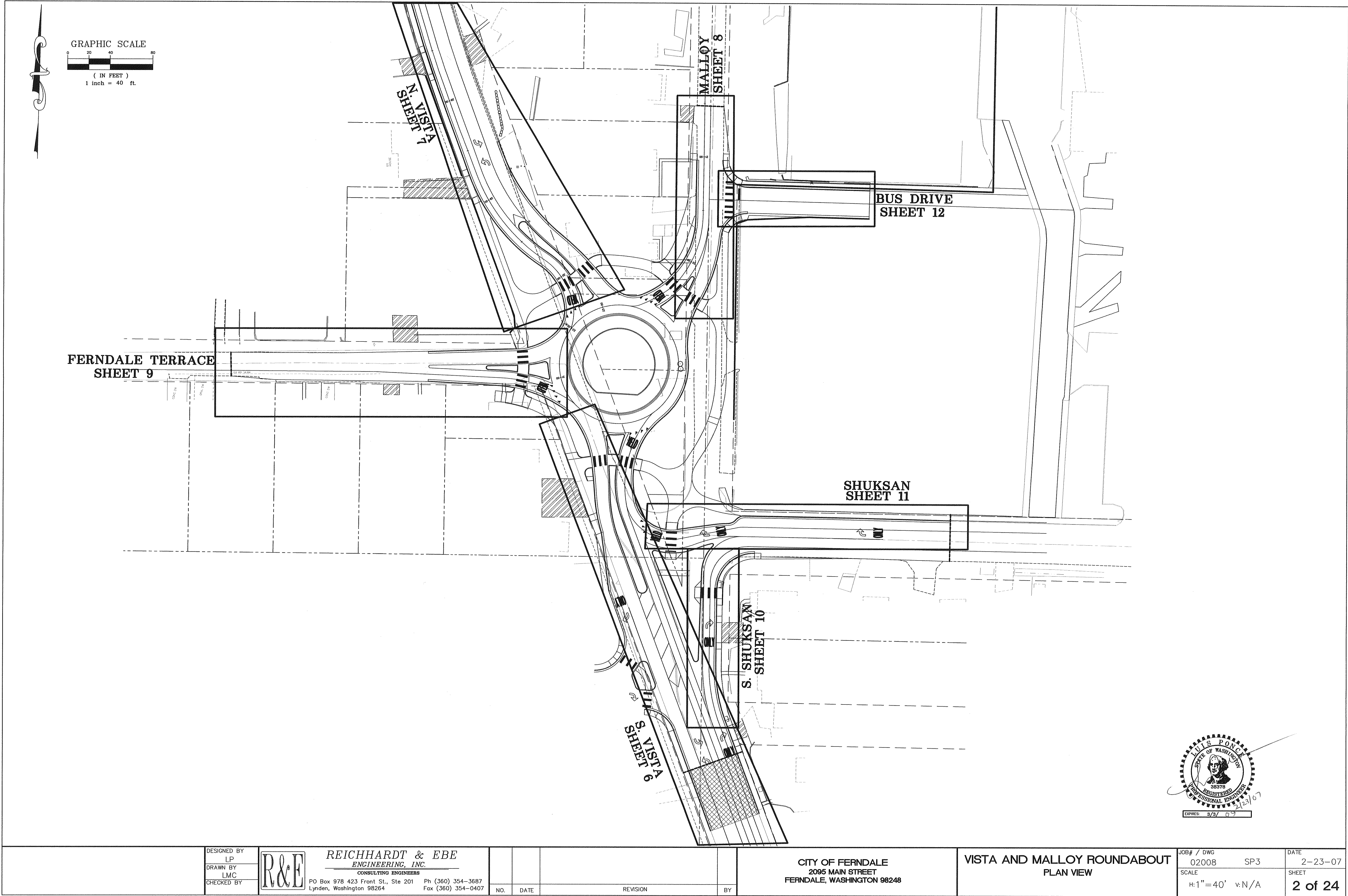
CITY OF FERNDALE  
2095 MAIN STREET  
FERNDALE, WASHINGTON 98248

VISTA AND MALLOY  
ROUNDAABOUT  
COVER SHEET

JOB# / DWG  
02008 SP3  
SCALE  
H: N/A V: N/A






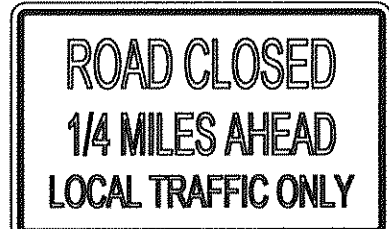
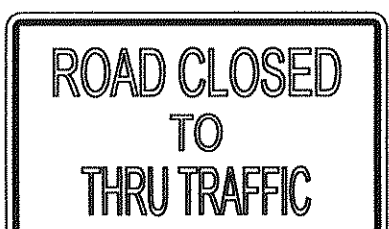

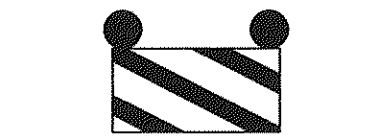

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2-23-07  
SHEET  
1 of 24

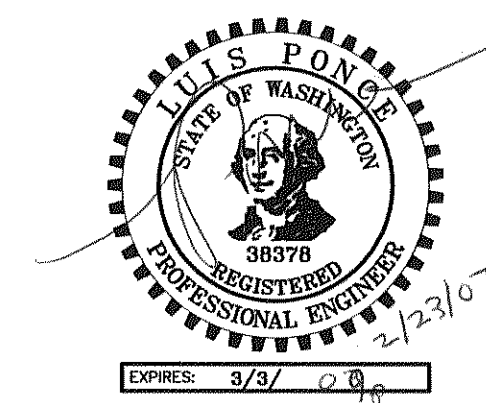
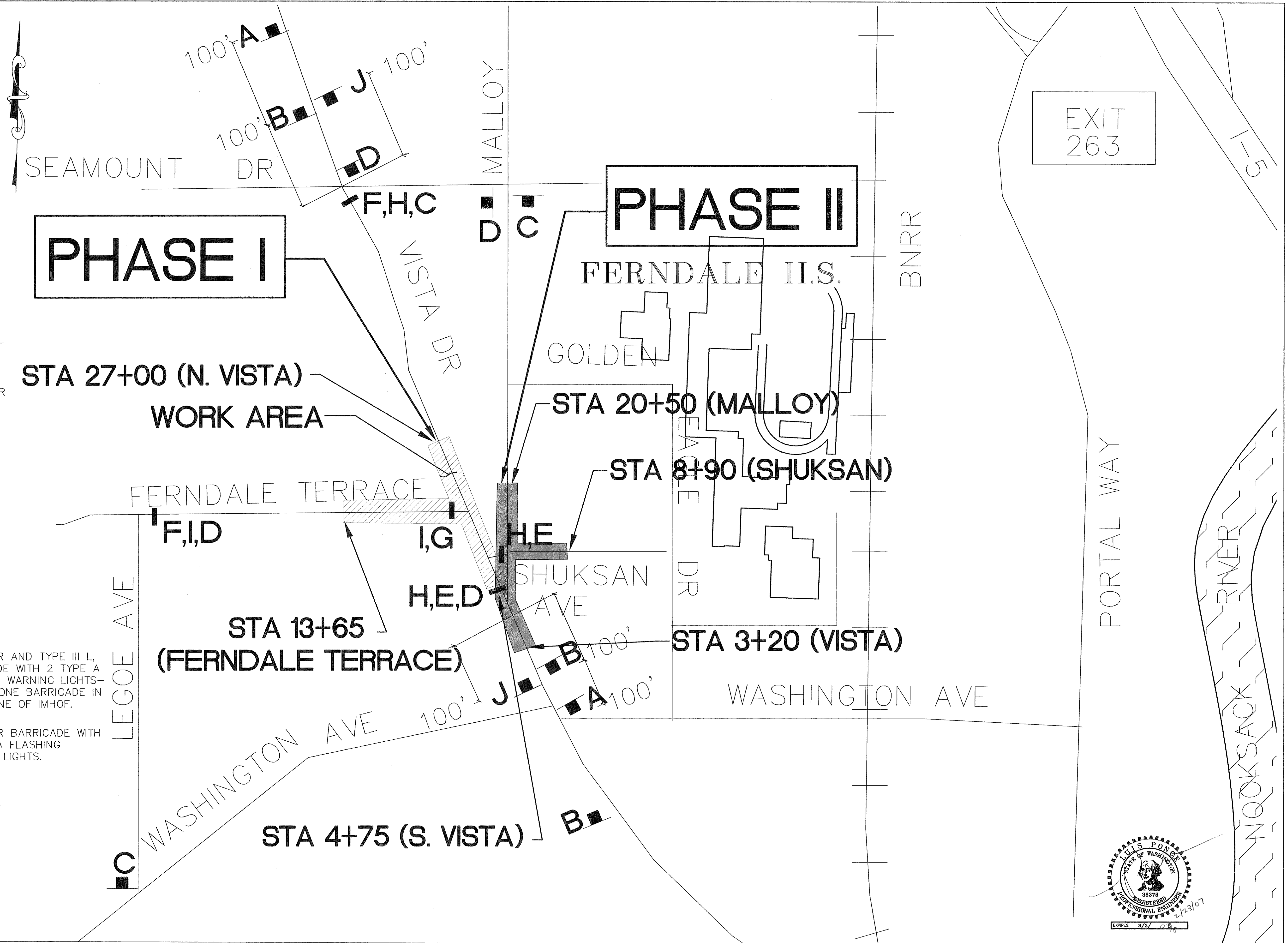
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# LEGEND

- A  W 20-3
- B  W 20-2
- C  M 4-10 L
- D  M 4-10 R
- E  R 11-2
- F  R 11-3
- G  R 11-4
- H  TYPE III R AND TYPE III L, BARRICADE WITH 2 TYPE A FLASHING WARNING LIGHTS—INSTALL ONE BARRICADE IN EACH LANE OF IMHOF.
- I  TYPE III R BARRICADE WITH 2 TYPE A FLASHING WARNING LIGHTS.
- J  M 4-8 A



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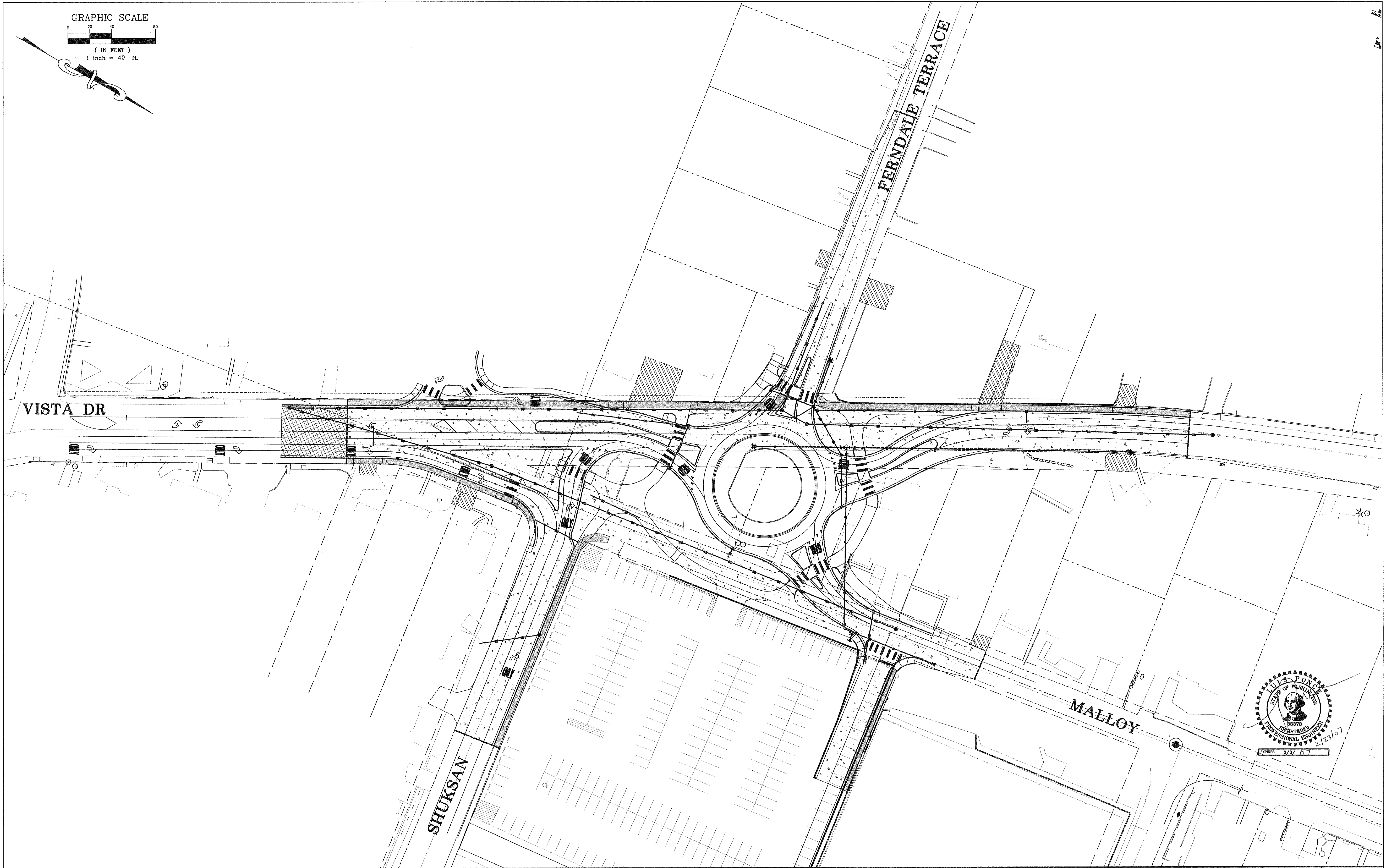
CITY OF FERNDAL  
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FERNDAL, WASHINGTON 98248

VISTA AND MALLOY ROUNDABOUT  
TRAFFIC CONTROL PLAN

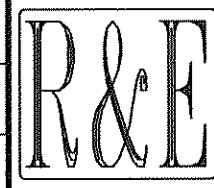
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02008 SP3.TC  
SCALE  
H:N/A V:N/A

DATE  
2-23-07  
SHEET  
3 of 24





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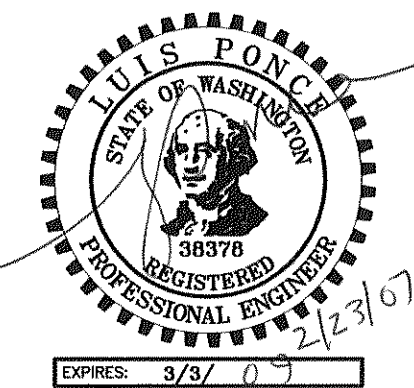
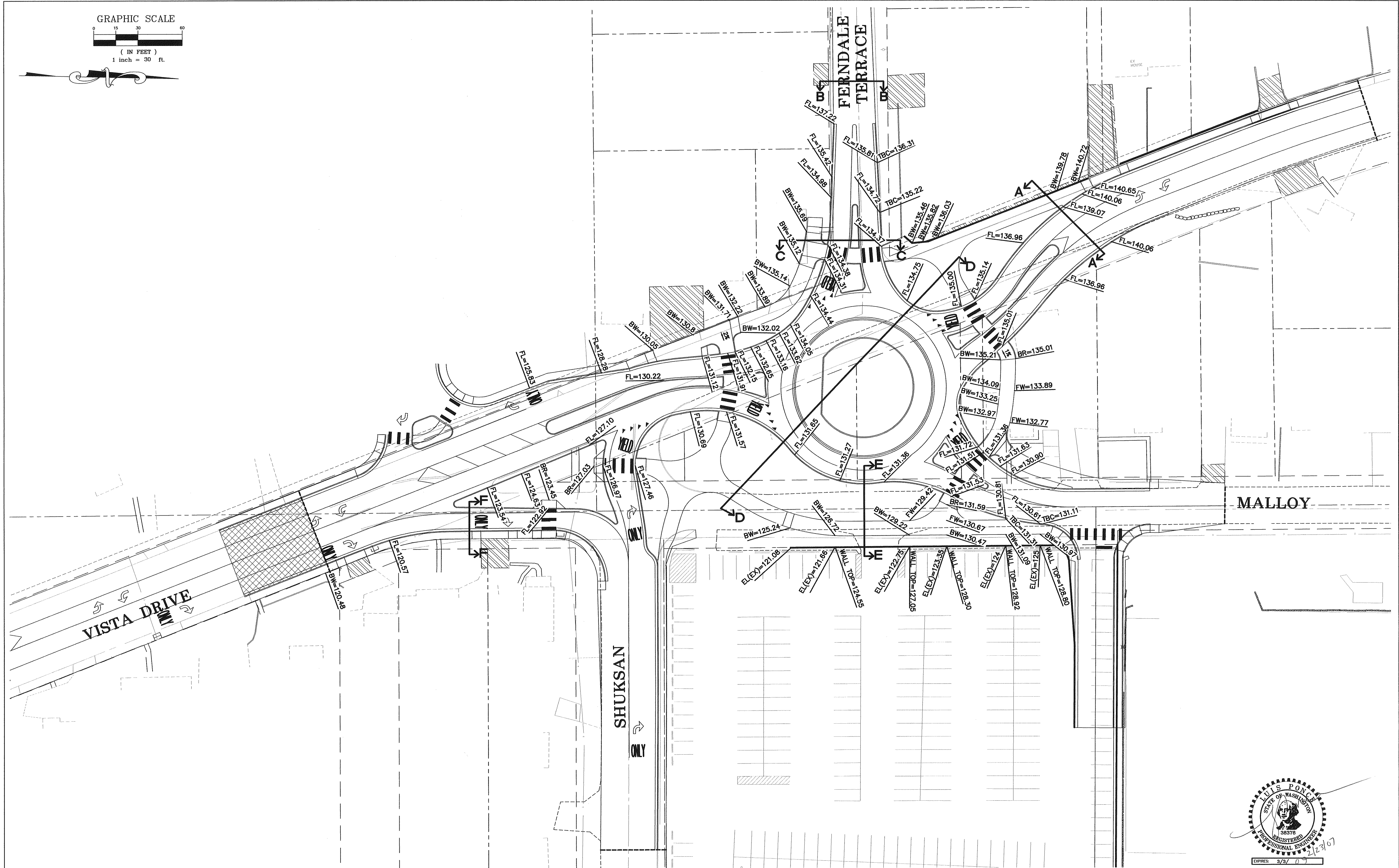
CITY OF FERDALE  
2095 MAIN STREET  
FERDALE, WASHINGTON 98248

**VISTA AND MALLOY ROUNDABOUT  
DEMOLITION PLAN**

JOB# / DWG  
02008 SP3  
SCALE  
H: 1" = 40' V: N/A

DATE  
2-23-07  
SHEET  
**4 of 24**

GRAPHIC SCALE  
( IN FEET )  
1 inch = 30 ft.



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2095 MAIN STREET  
FERNDALE, WASHINGTON 98248

VISTA AND MALLOY ROUNDABOUT  
GRADING PLAN

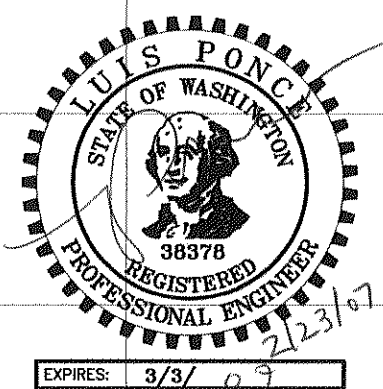
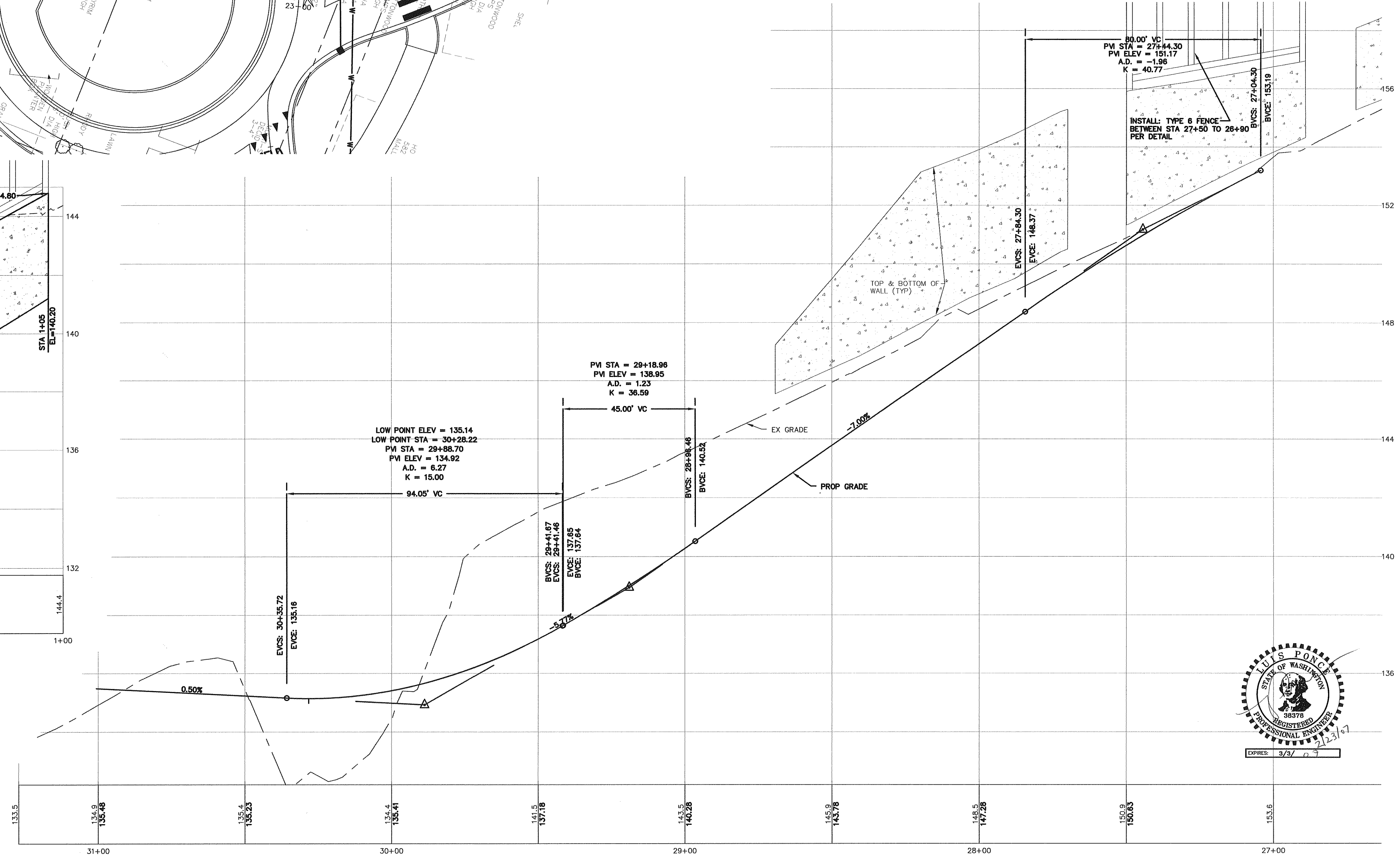
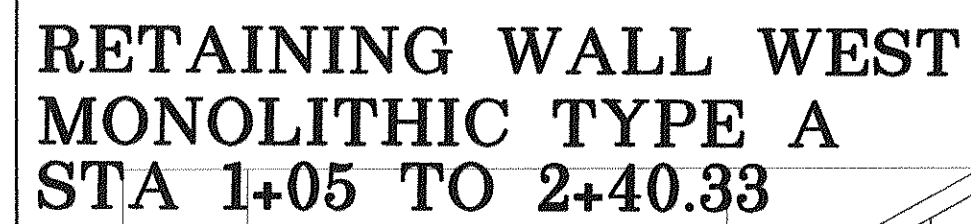
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DATE  
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SHEET  
5 of 24







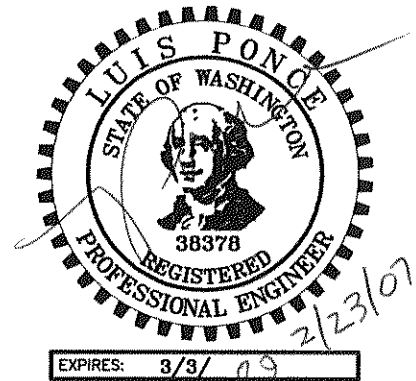
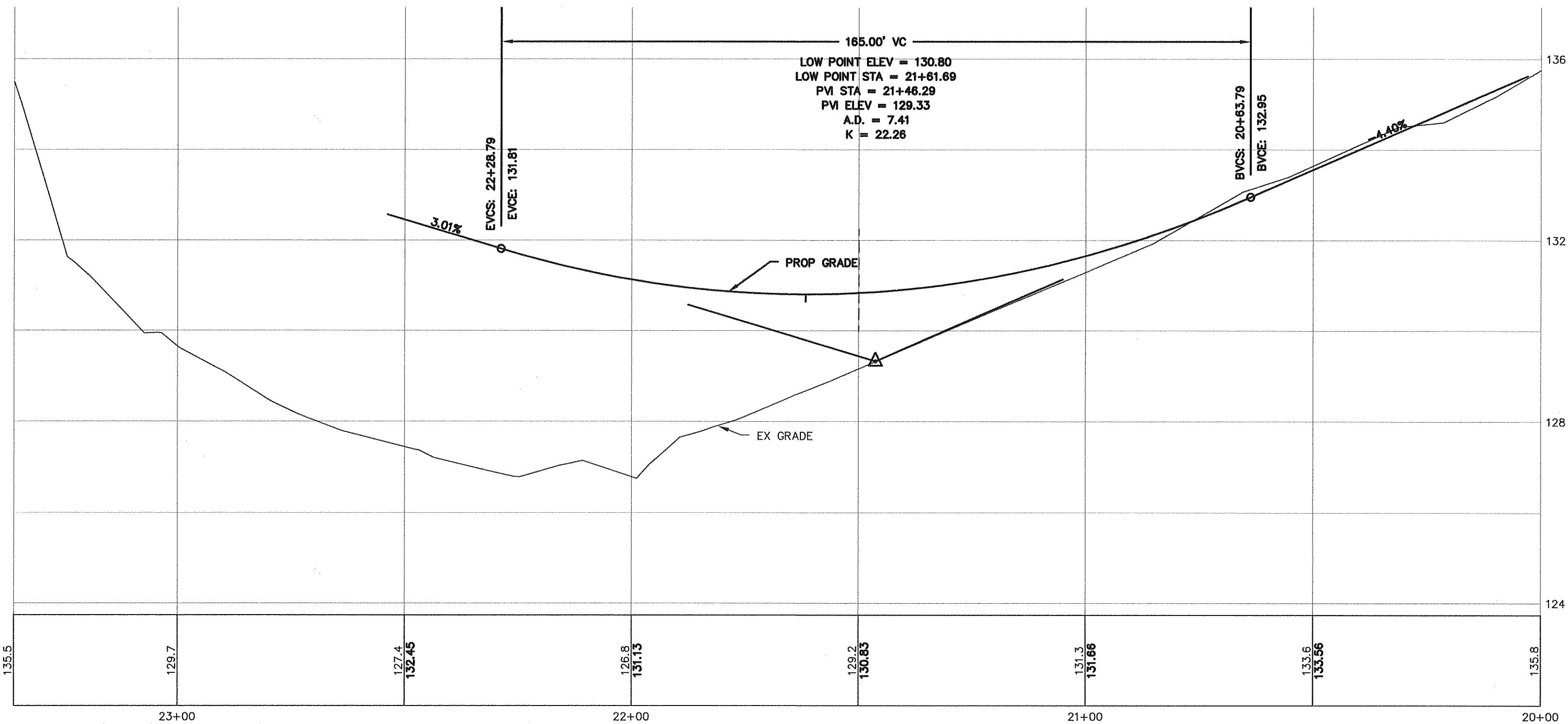
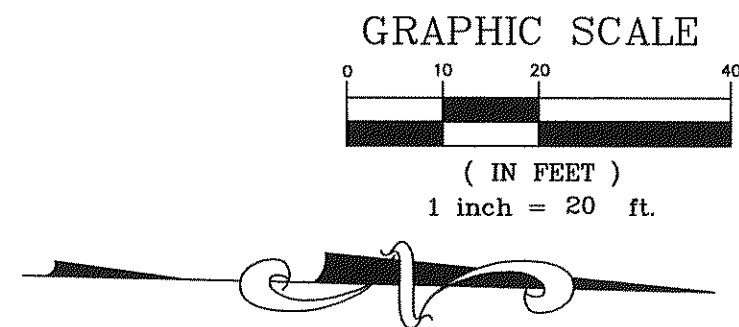
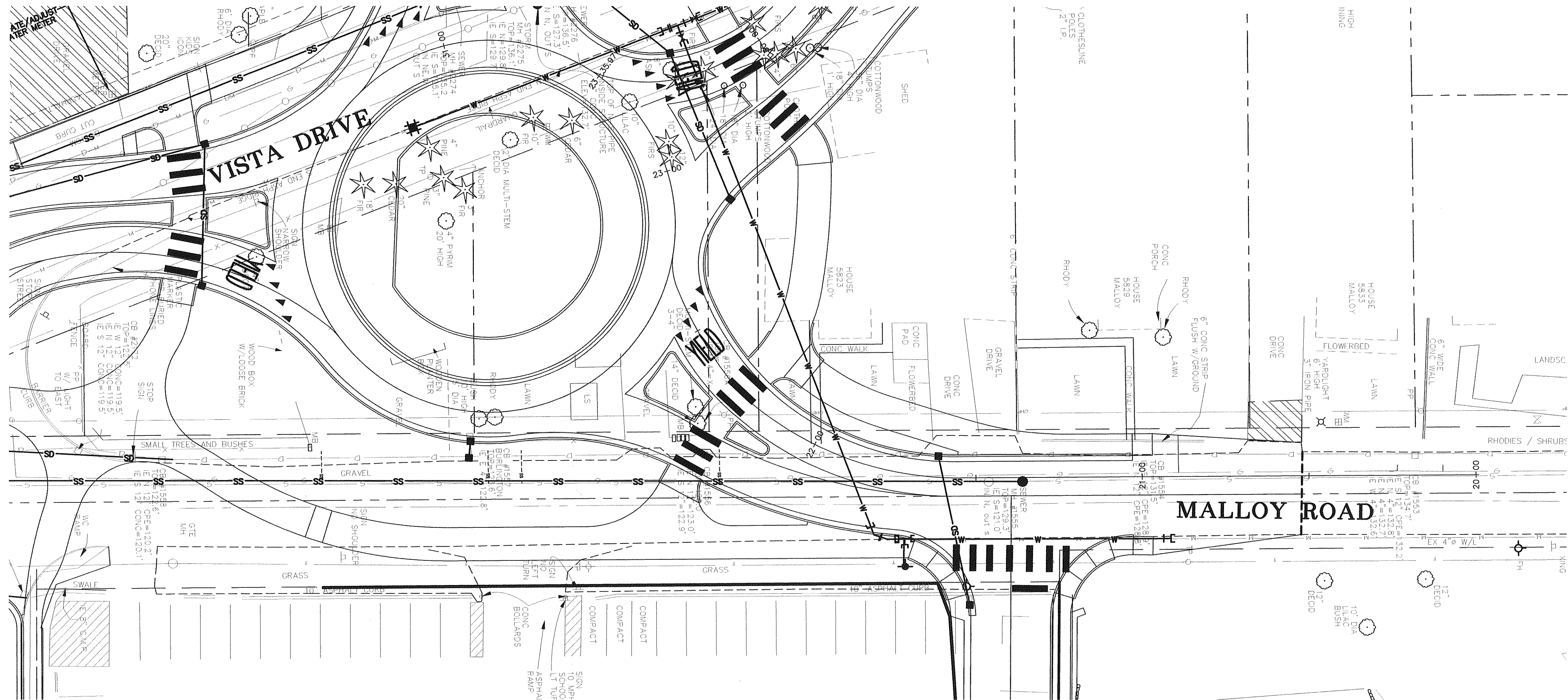


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NO.	DATE	REVISION	BY
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DATE	2-23-07
SHEET	7 of 24

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DATE

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2095 MAIN STREET  
FERNDALE, WASHINGTON 98248

**VISTA AND MALLOY ROUNDABOUT**  
**MALLOY ROAD**

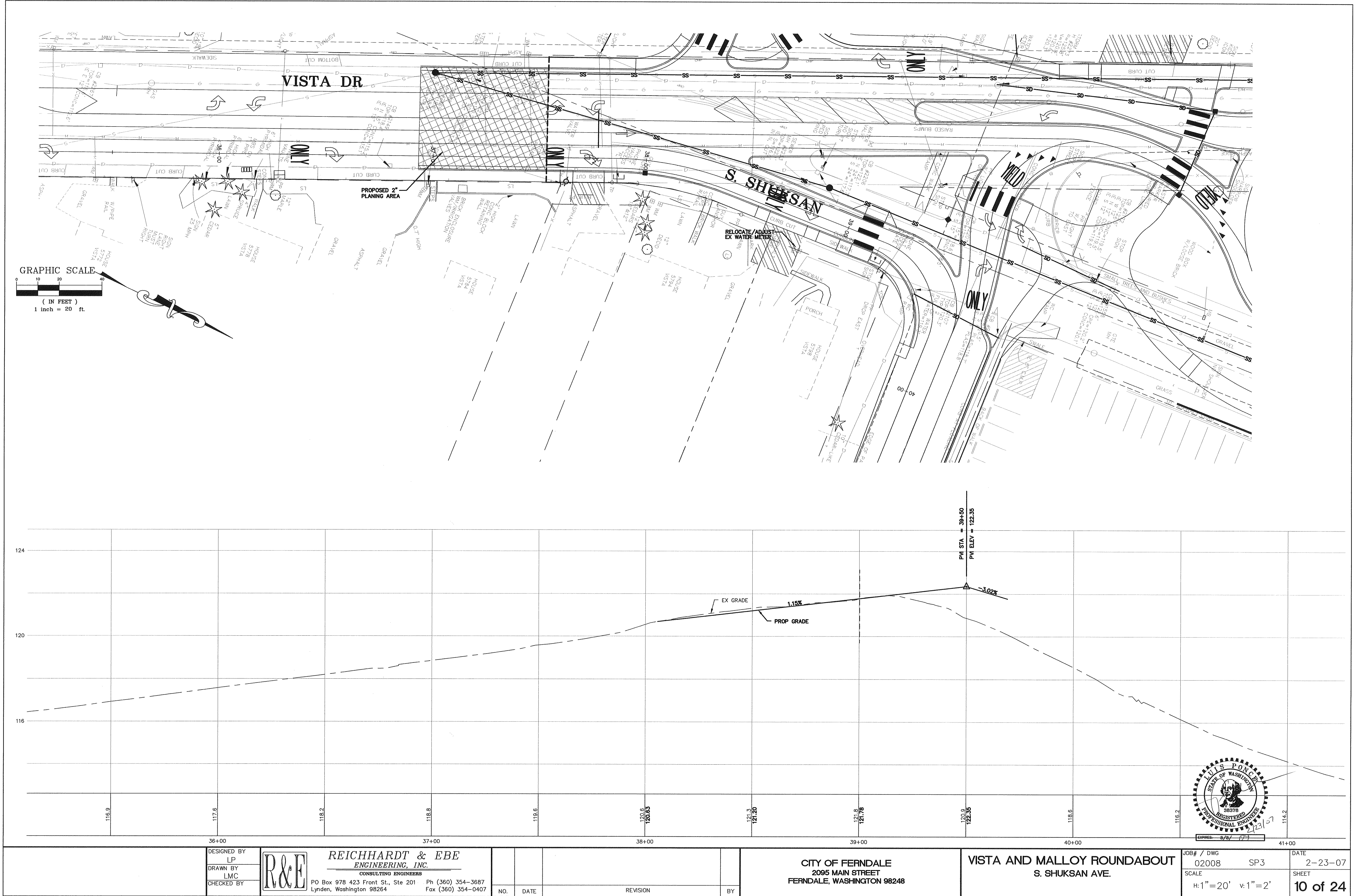
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SCALE  
H: 1"=20' V: 1"=2'


DATE  
2-23-07  
SHEET  
**8 of 24**



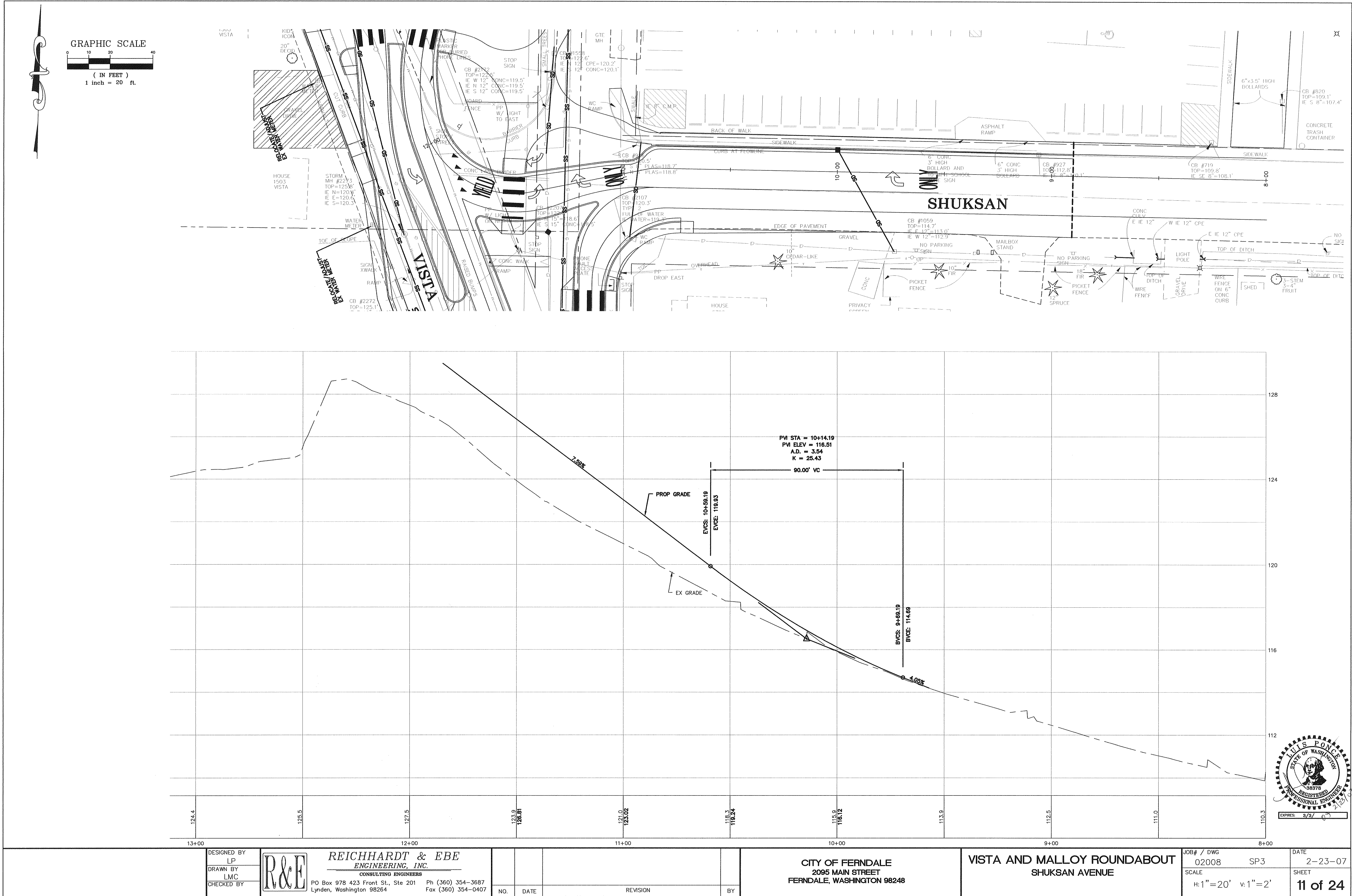




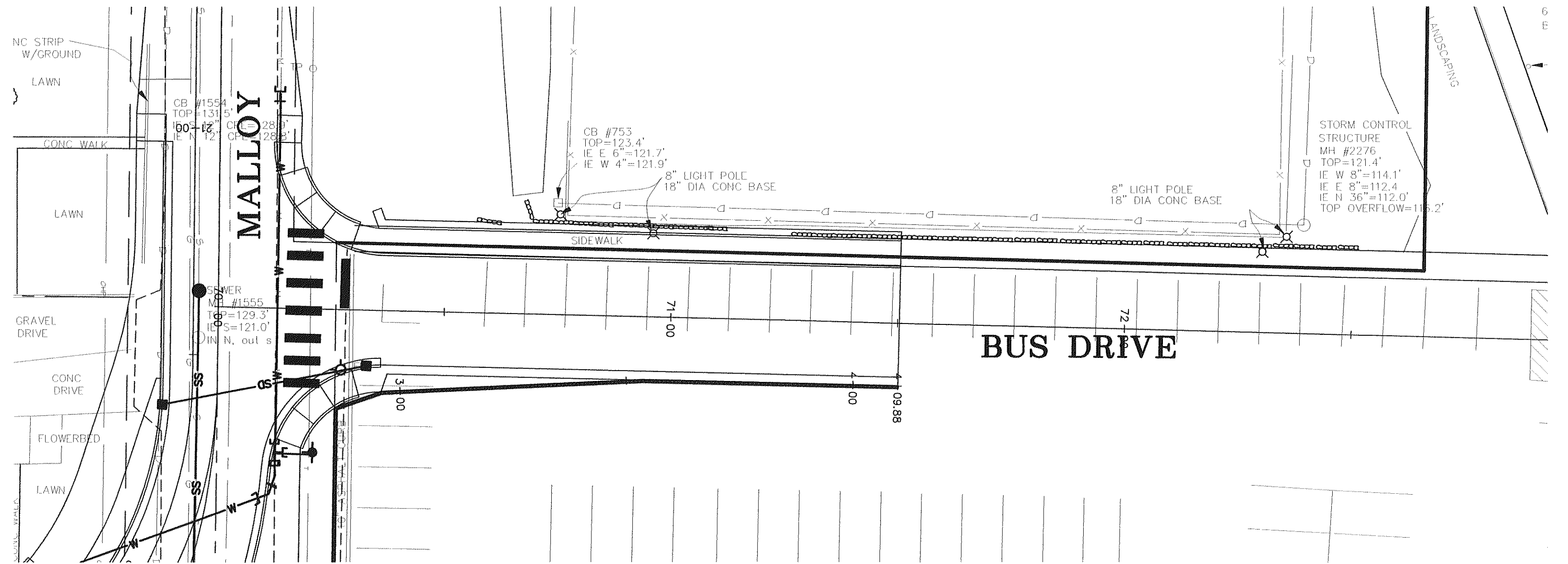
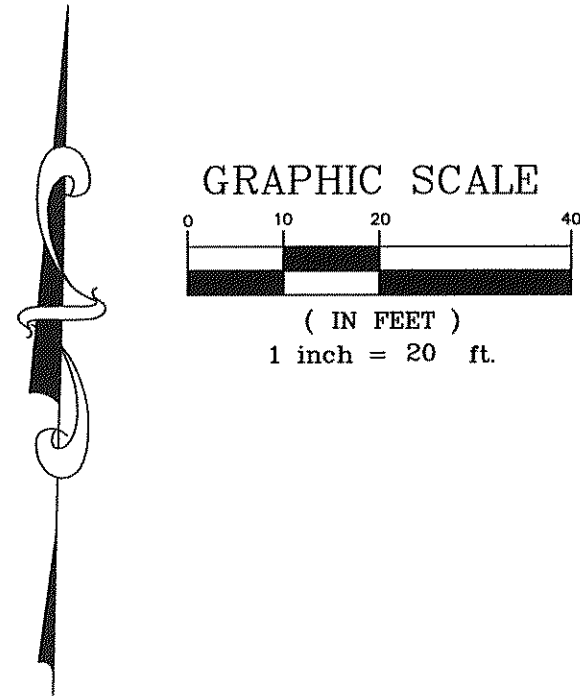


	DESIGNED BY LP	 <div>REICHARDT &amp; EBE ENGINEERING, INC. CONSULTING ENGINEERS PO Box 978 423 Front St., Ste 201 Lynden, Washington 98264 Ph (360) 354-3687 Fax (360) 354-0407</div>					CITY OF FERDALE 2095 MAIN STREET FERDALE, WASHINGTON 98248	VISTA AND MALLOY ROUNDABOUT S. SHUKSAN AVE.	JOB# / DWG 02008 SP3	DATE 2-23-07
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	CHECKED BY									10 of 24
			NO.	DATE	REVISION	BY				

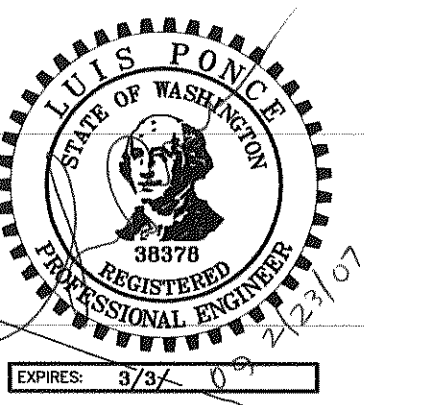
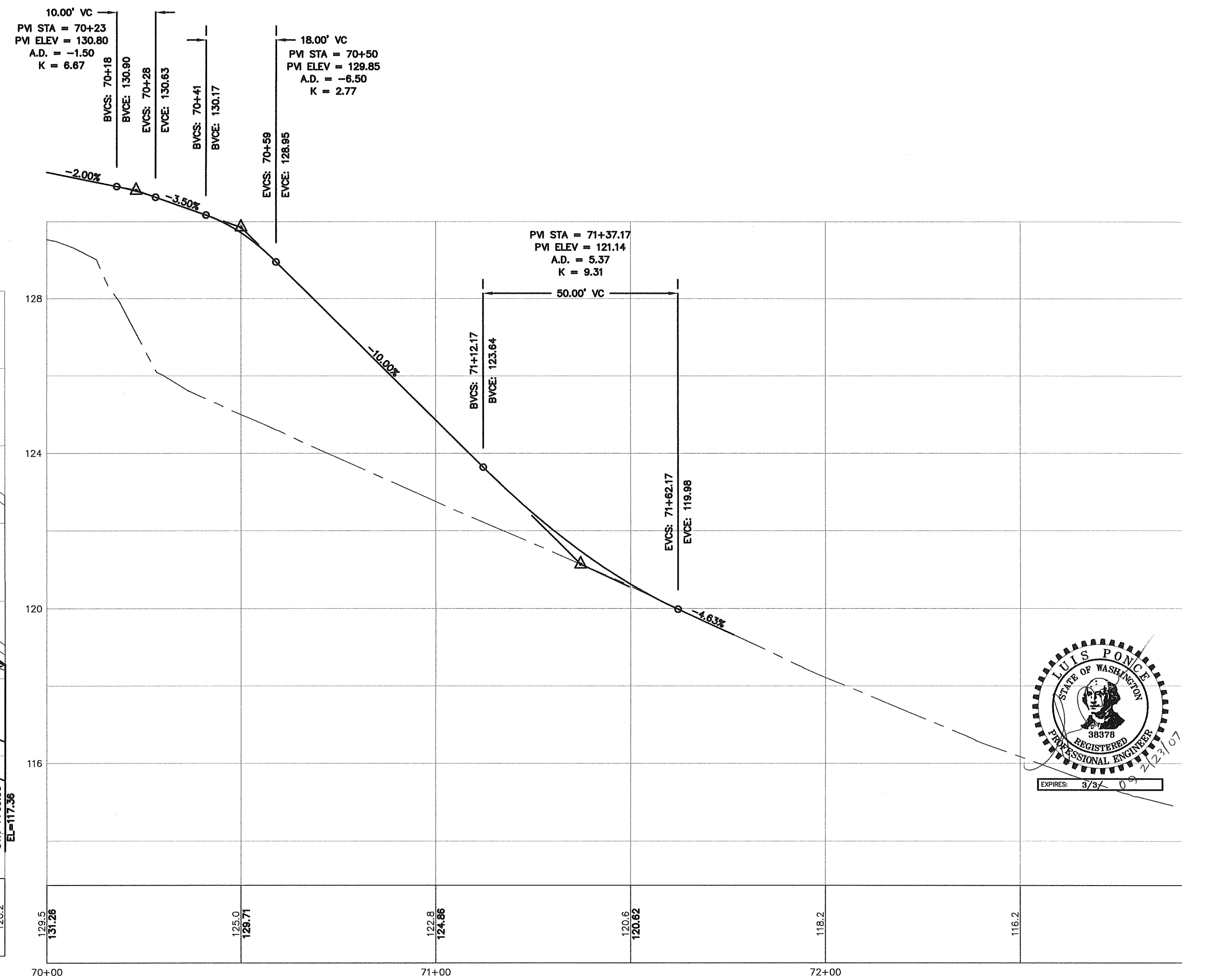
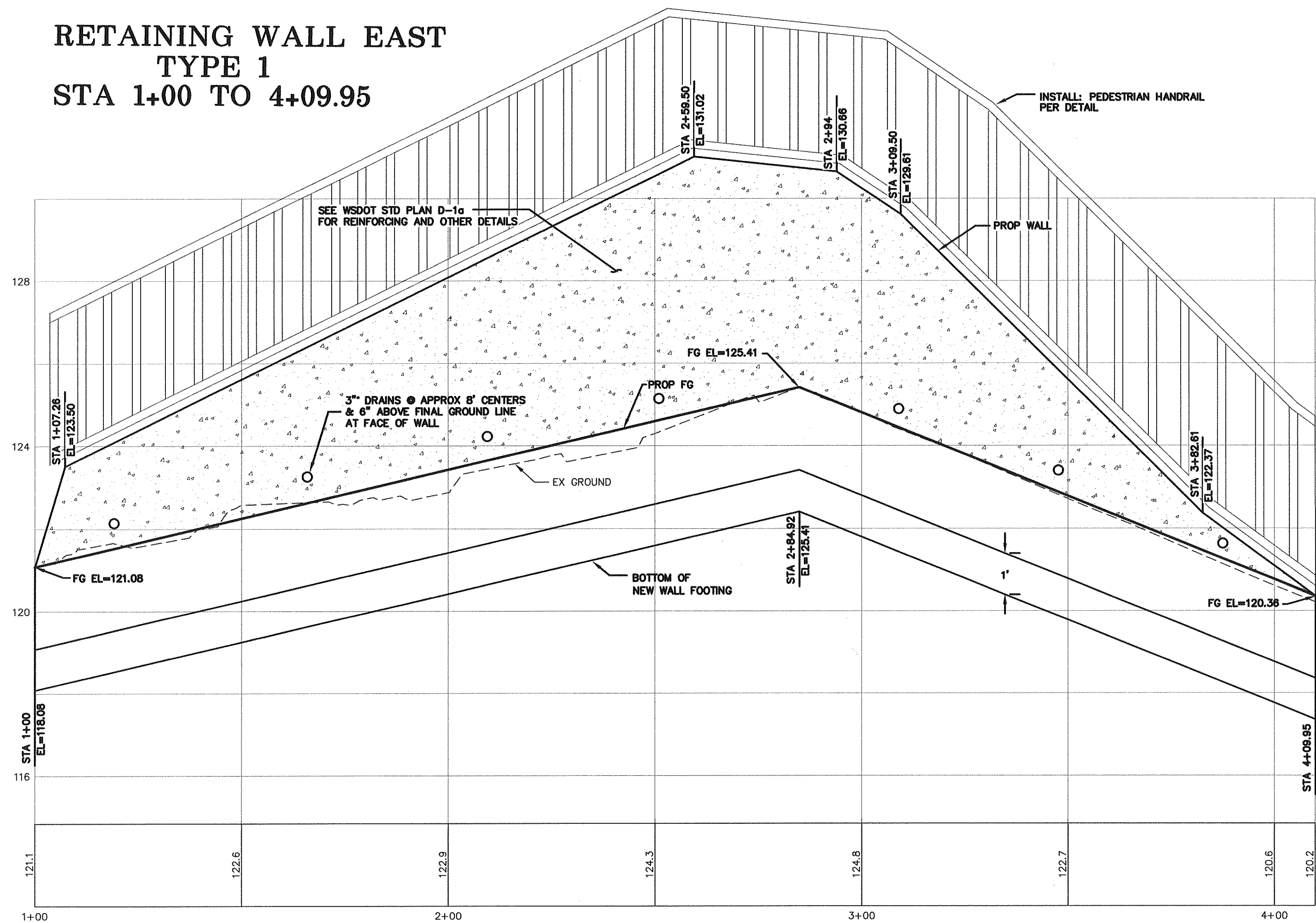
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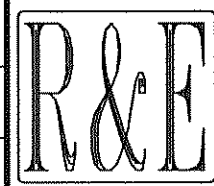




RETAINING WALL EAST  
TYPE 1  
STA 1+00 TO 4+09.95



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NO.

DATE

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2095 MAIN STREET  
FERNDAL, WASHINGTON 98248

VISTA AND MALLOY ROUNDABOUT  
BUS DRIVE

JOB# / DWG  
02008

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

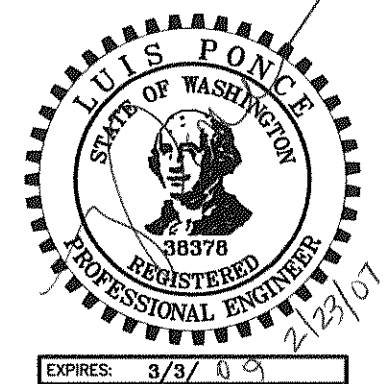
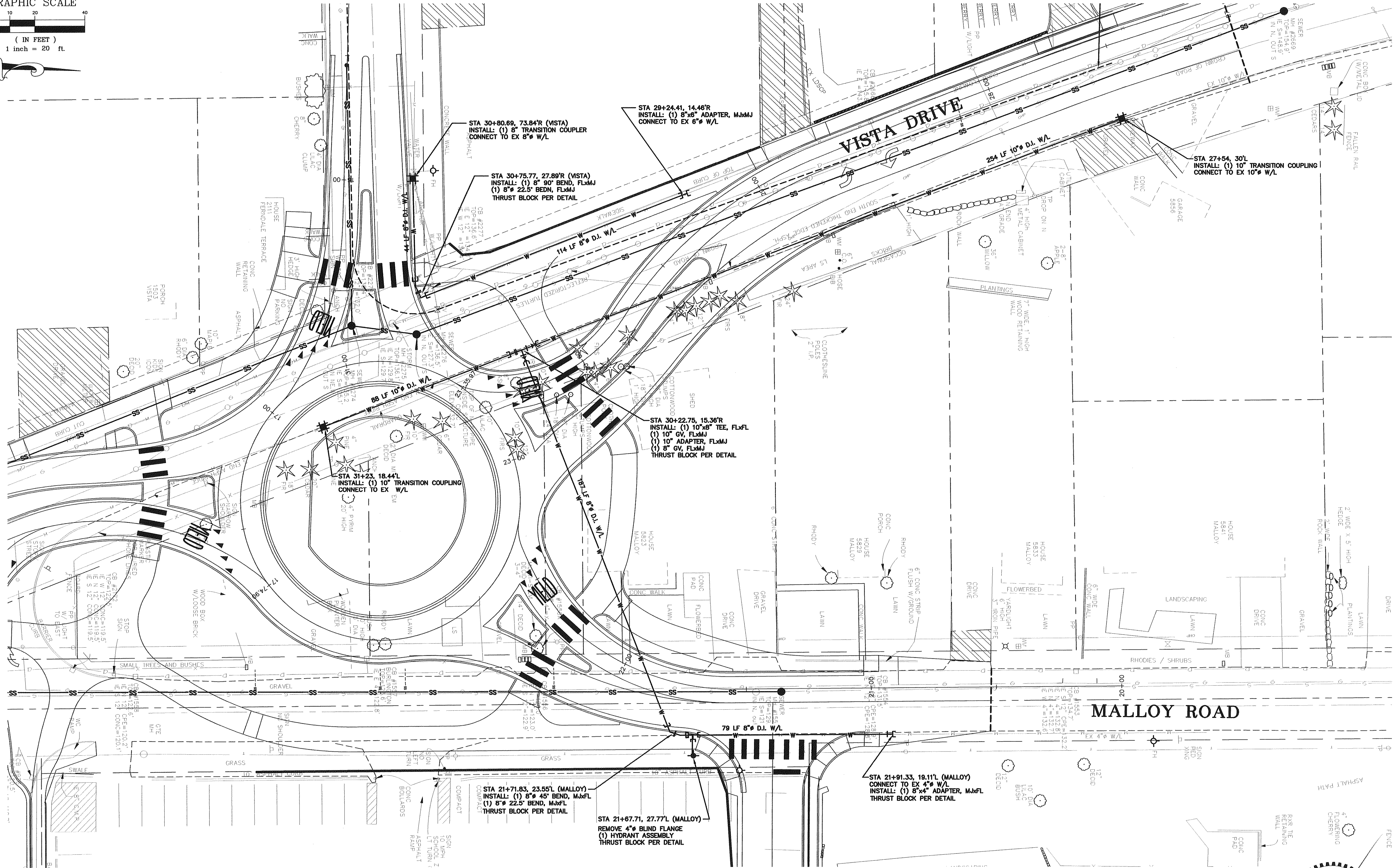
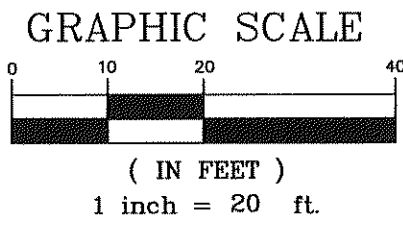
SP3

DATE  
2-23-07

SHEET

12 of 24





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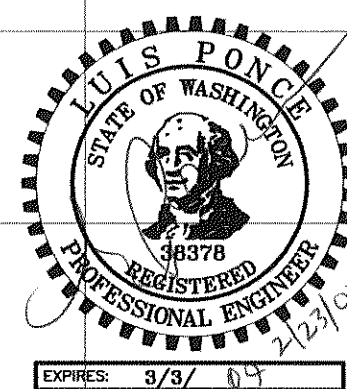
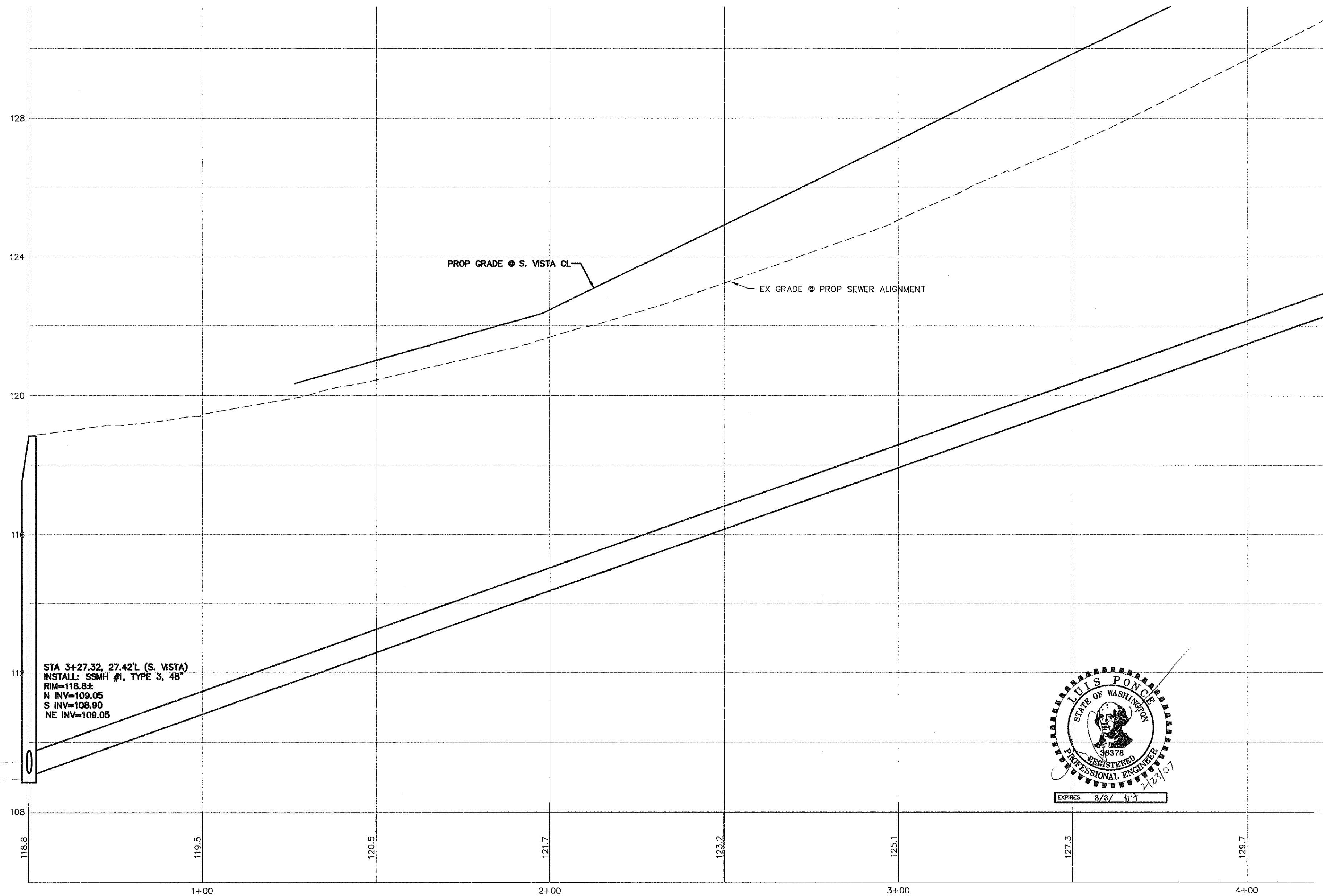
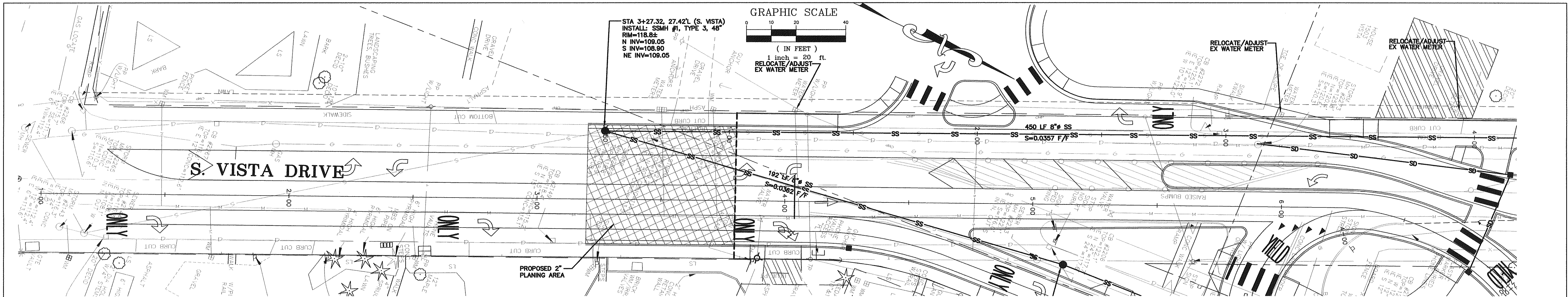
NO.	DATE	REVISION	BY

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2095 MAIN STREET  
FERDALE, WASHINGTON 98248

**VISTA AND MALLOY ROUNDABOUT**  
WATERMAIN IMPROVEMENTS

JOB# / DWG  
02008 SP3  
SCALE  
H:1"=20' V:N/A

DATE  
2-23-07  
SHEET  
**13 of 24**



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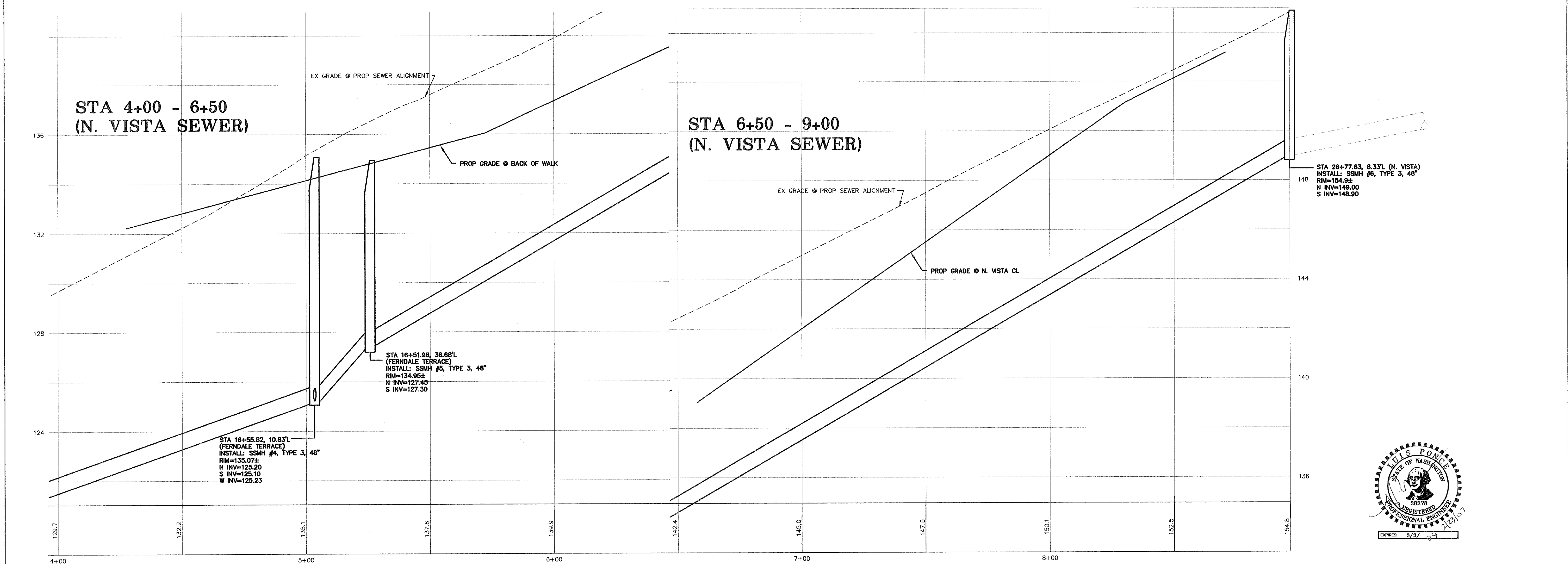
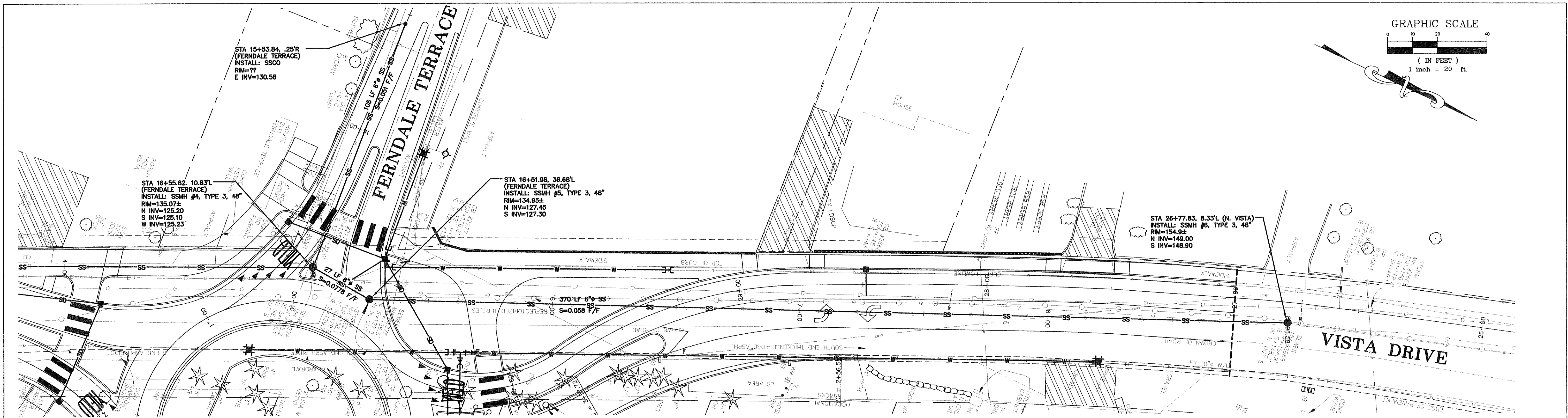
CITY OF FERNDALE  
2095 MAIN STREET  
FERNDALE, WASHINGTON 98248

**VISTA AND MALLOY ROUNDABOUT**  
SANITARY SEWER IMPROVEMENTS  
S. VISTA DRIVE

JOB# / DWG  
02008 SP3  
SCALE  
H: 1" = 20' V: 1" = 2'

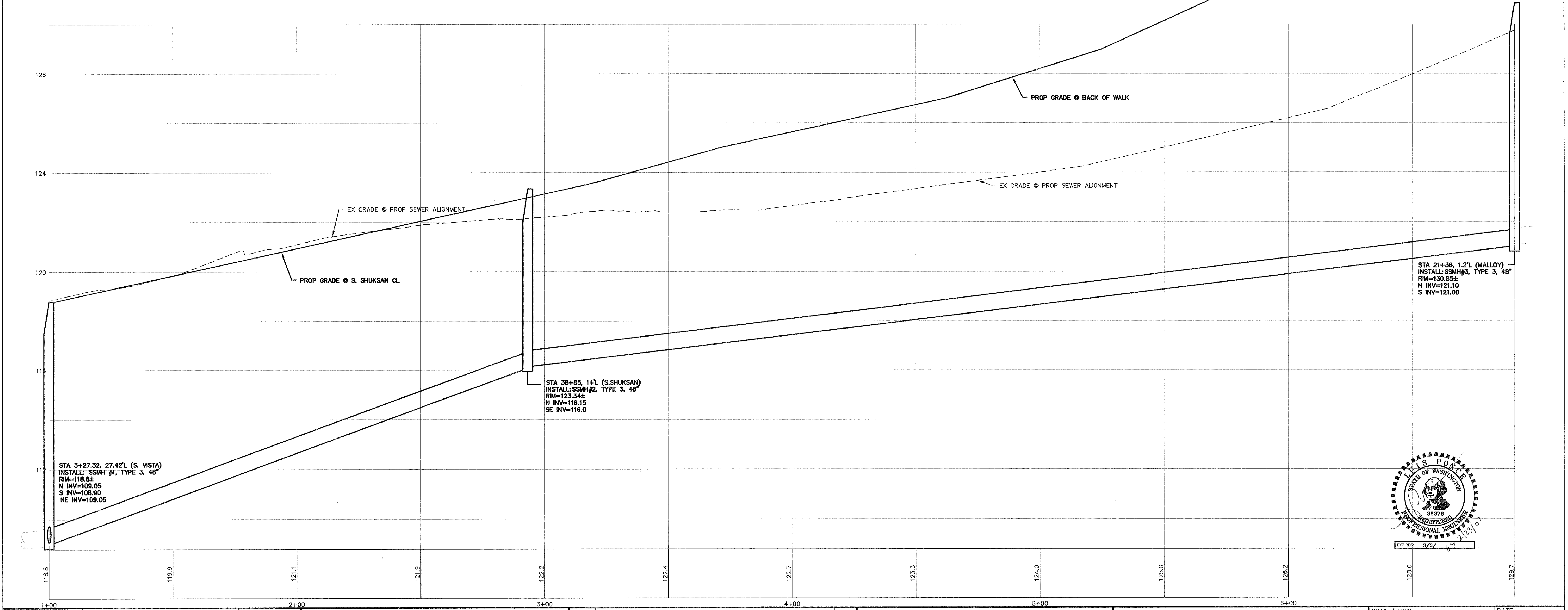
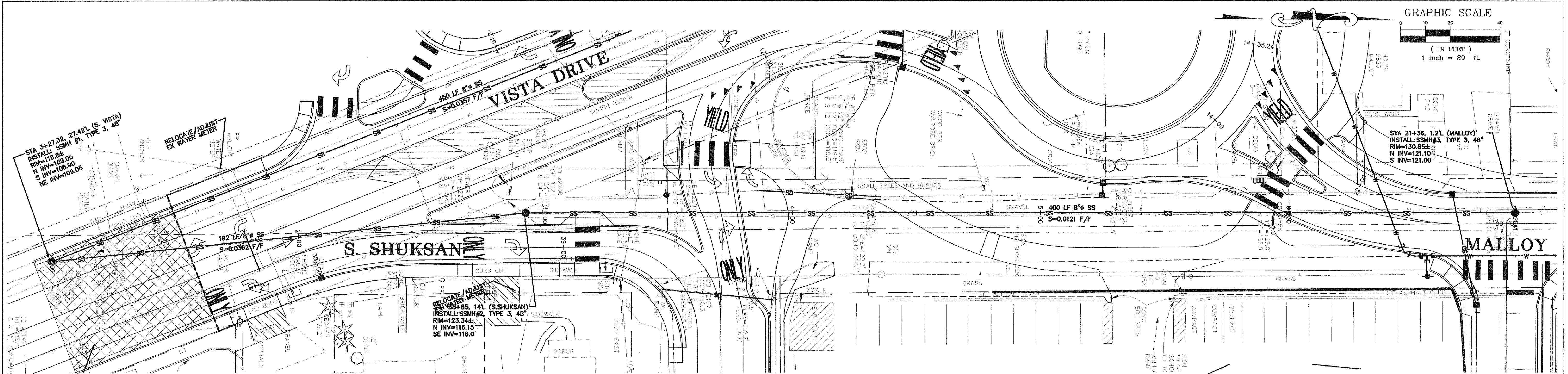
DATE  
2-23-07  
SHEET  
14 of 24

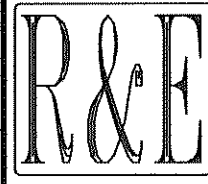




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DRAWN BY LMC									SCALE H:1"=20' V:1"=2'	SHEET 15 of 24
CHECKED BY										

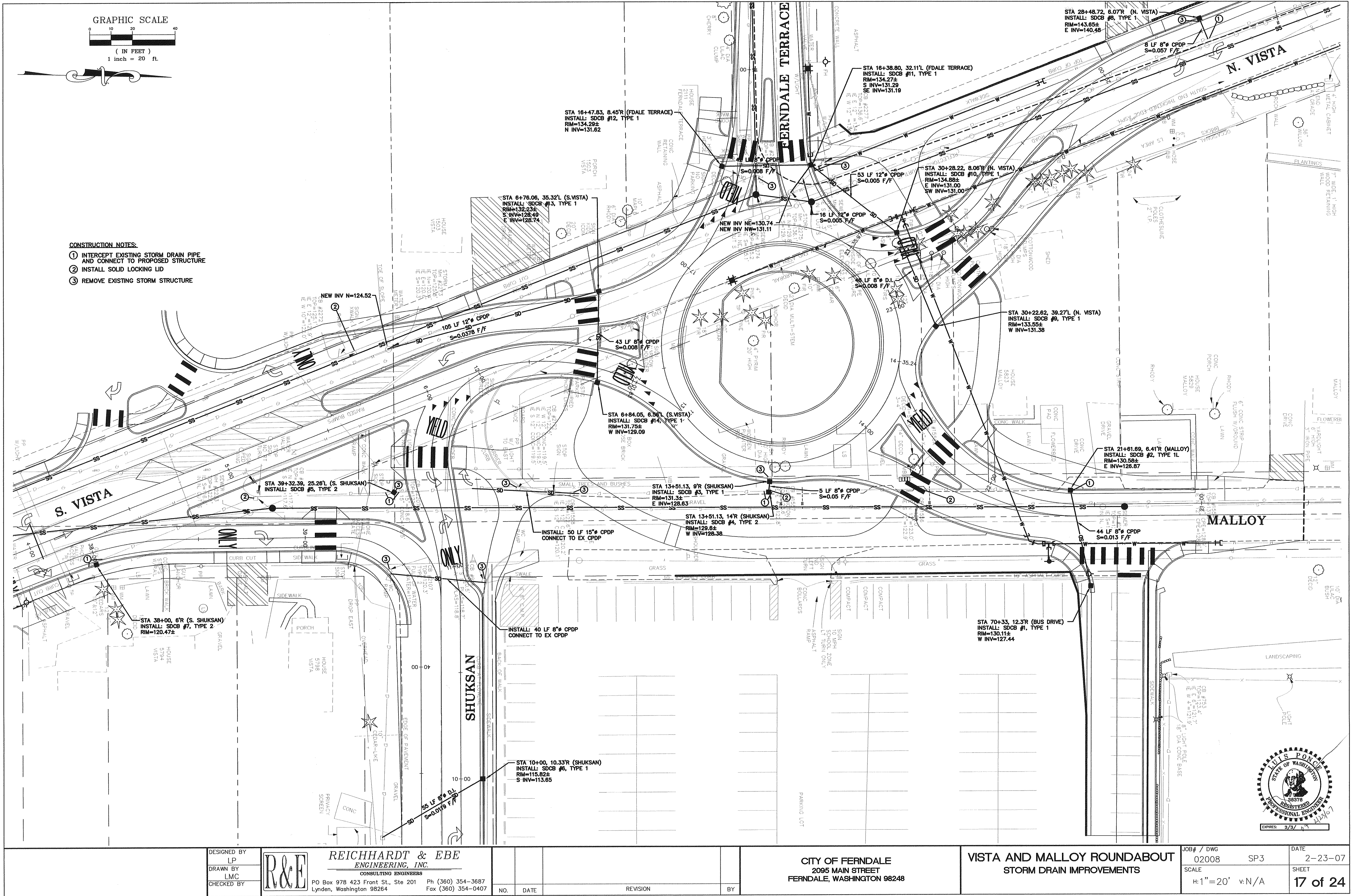




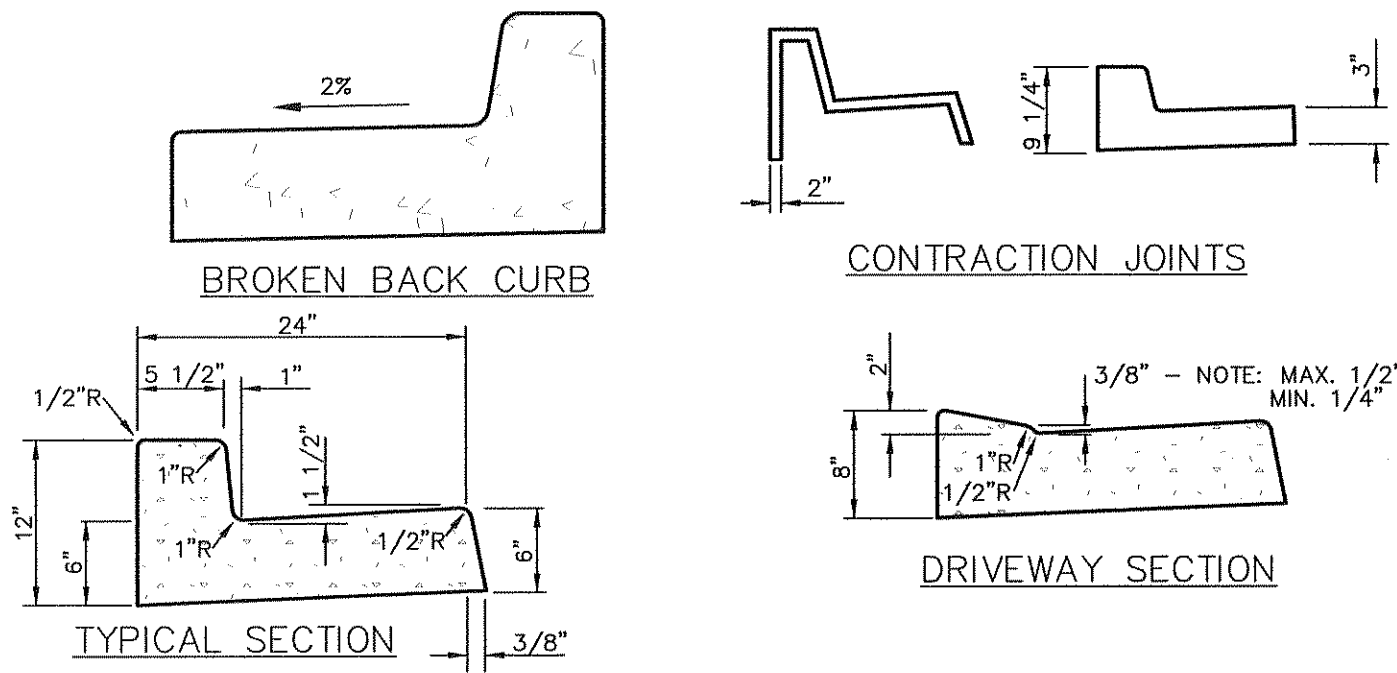
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DRAWN BY LMC								SCALE H:1"=20' V:1"=2'	SHEET 16 of 24
CHECKED BY									



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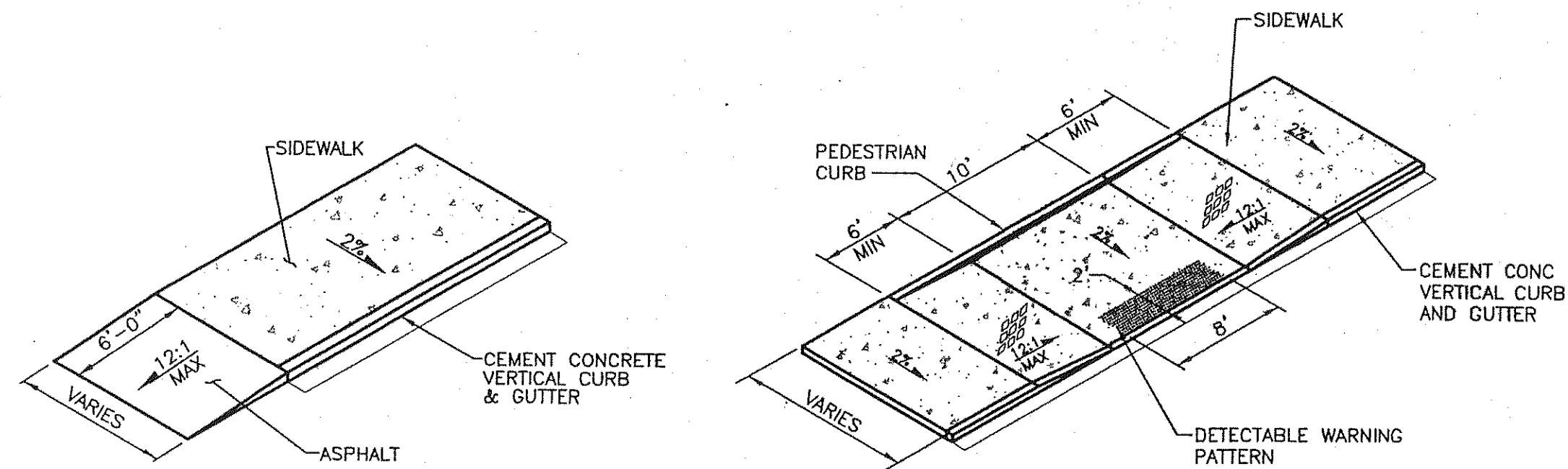






## CURB AND GUTTER DETAILS

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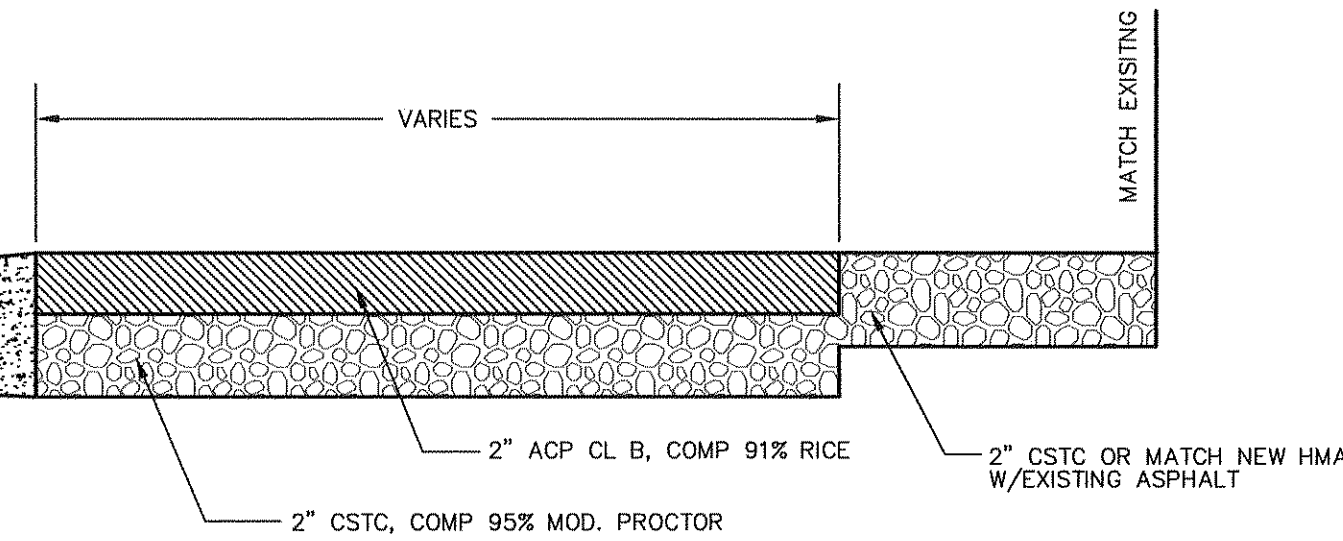


## ASPHALT RAMP

NTS

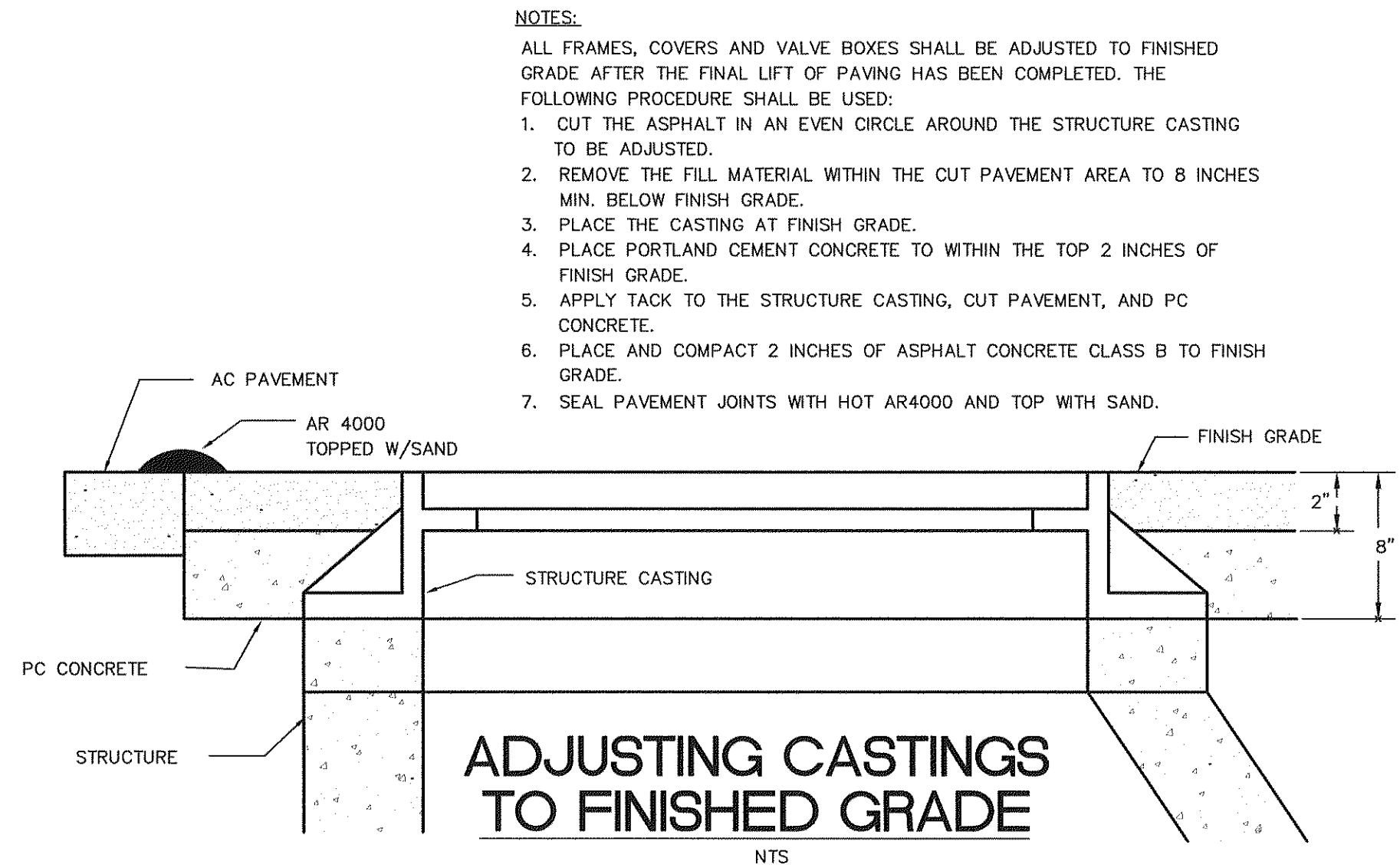
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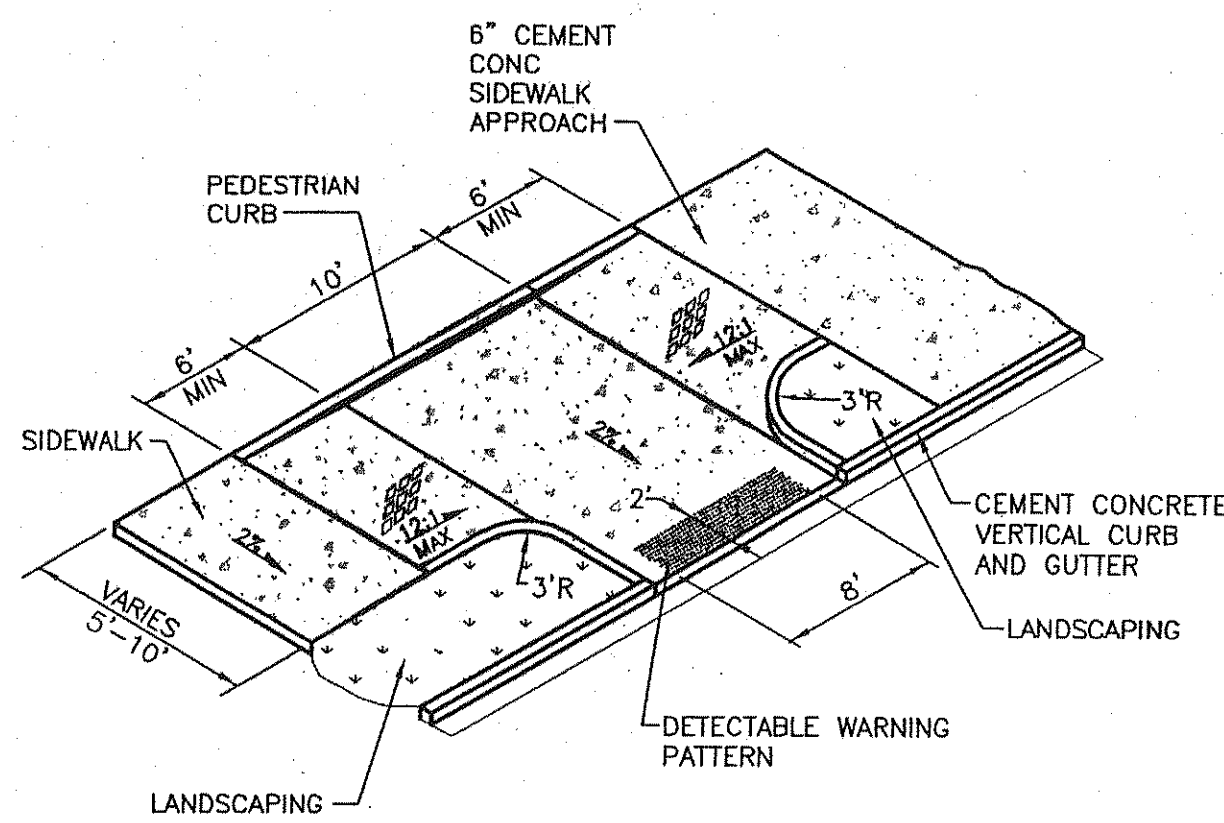
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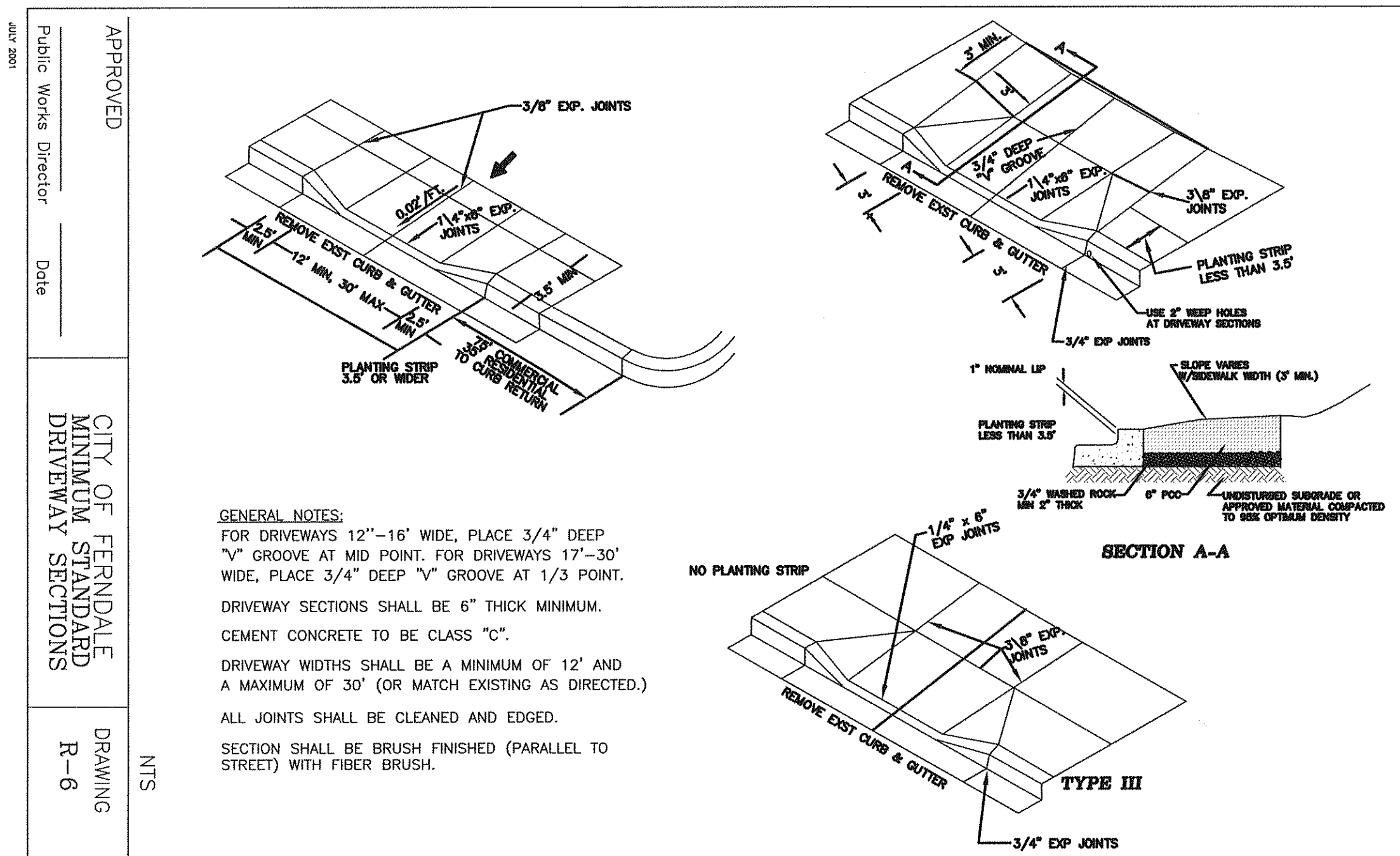
### NOTES:

- 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 ASPHALT CONCRETE CLASS B TO FINISH GRADE.
  - SEAL PAVEMENT JOINTS WITH HOT AR4000 AND TOP WITH SAND.

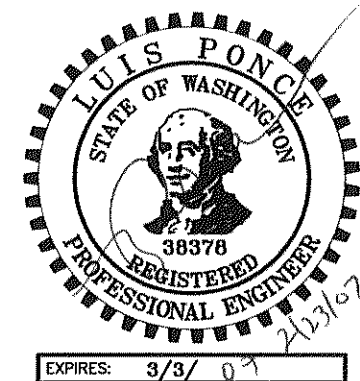
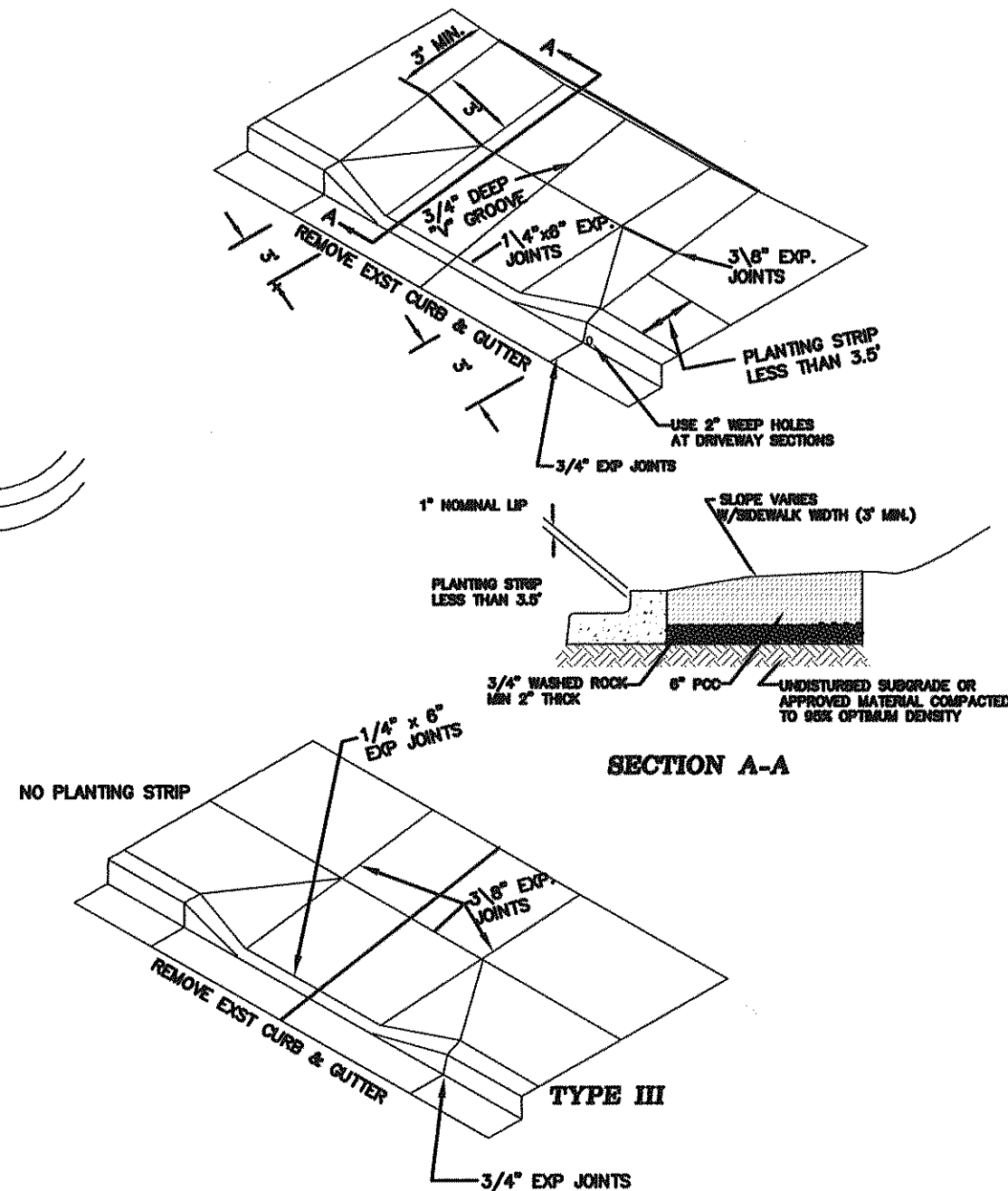


## MODIFIED SIDEWALK RAMP TYPE 2A ALTERNATE 1

NTS



GENERAL NOTES:  
FOR DRIVEWAYS 12"-16" WIDE, PLACE 3/4" DEEP "V" GROOVE AT MID POINT. FOR DRIVEWAYS 17"-30" WIDE, PLACE 3/4" DEEP "V" GROOVE AT 1/3 POINT.  
DRIVEWAY SECTIONS SHALL BE 6" THICK MINIMUM.  
CEMENT CONCRETE TO BE CLASS "C".  
DRIVEWAY WIDTHS SHALL BE A MINIMUM OF 12' AND A MAXIMUM OF 30' (OR MATCH EXISTING AS DIRECTED.)  
ALL JOINTS SHALL BE CLEANED AND EDGED.  
SECTION SHALL BE BRUSH FINISHED (PARALLEL TO STREET) WITH FIBER BRUSH.



DESIGNED BY  
LP  
DRAWN BY  
LMC  
CHECKED BY



**REICHARDT & EBE**  
**ENGINEERING, INC.**  
CONSULTING ENGINEERS

PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687  
Lynden, Washington 98264 Fax (360) 354-0407

NO.

DATE

REVISION

BY

**CITY OF FERDALE**  
**2005 MAIN STREET**  
**FERDALE, WASHINGTON 98246**

**VISTA AND MALLOY**  
**ROUNDAABOUT**  
**STREET DETAILS**

JOB# / DWG

02008 DET

SCALE

H:N/A V:N/A

DATE

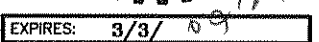
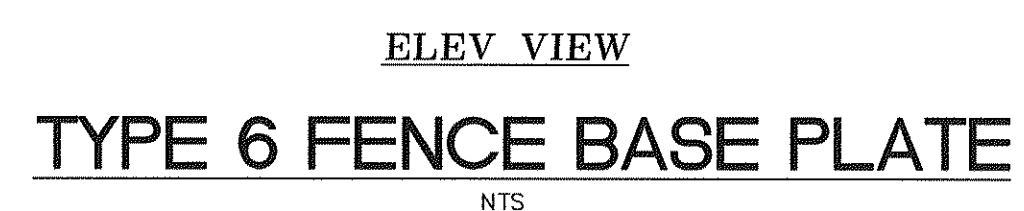
2-23-07

SHEET

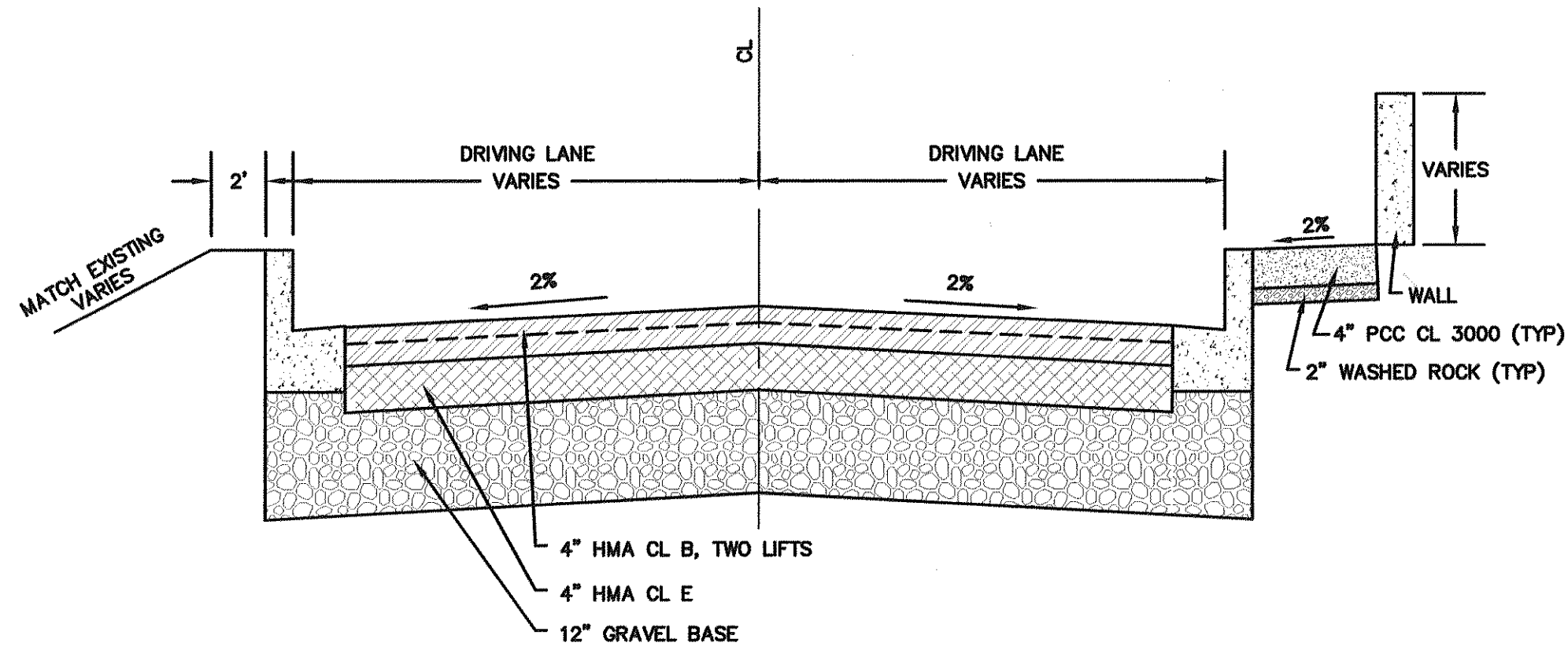
18 of 24



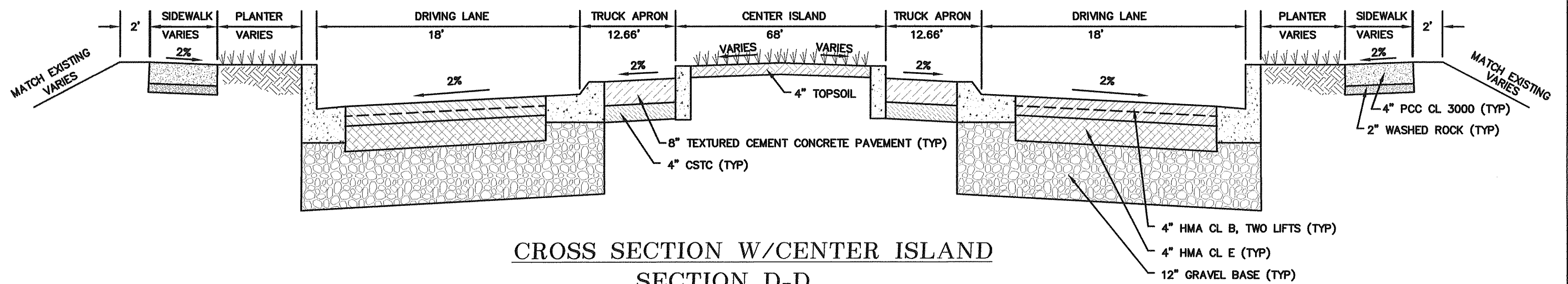
The diagram illustrates the construction of Chain Link Fence Type 6. It shows three types of posts: an end, gate, or corner post; a line post; and a pull post. The fence is composed of chain link fabric held together by tension wires. Key components labeled include the top rail, knuckled selvage, fabric band, and sleeve. Dimensions are specified: a maximum of 2 inches for the gap between the top rail and the fabric, and 4 inches for the height of the top rail above the fabric. The diagram is labeled 'CHAIN LINK FENCE TYPE 6' and 'NTS' (Not To Scale).



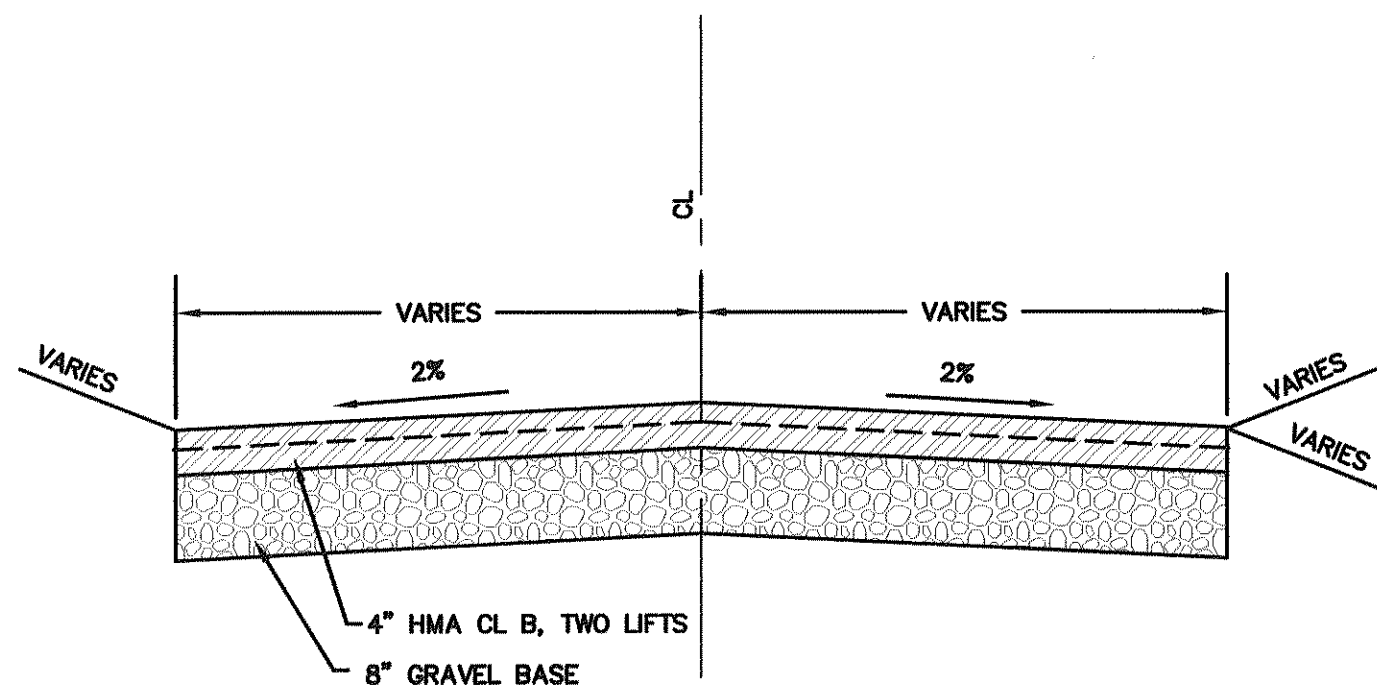




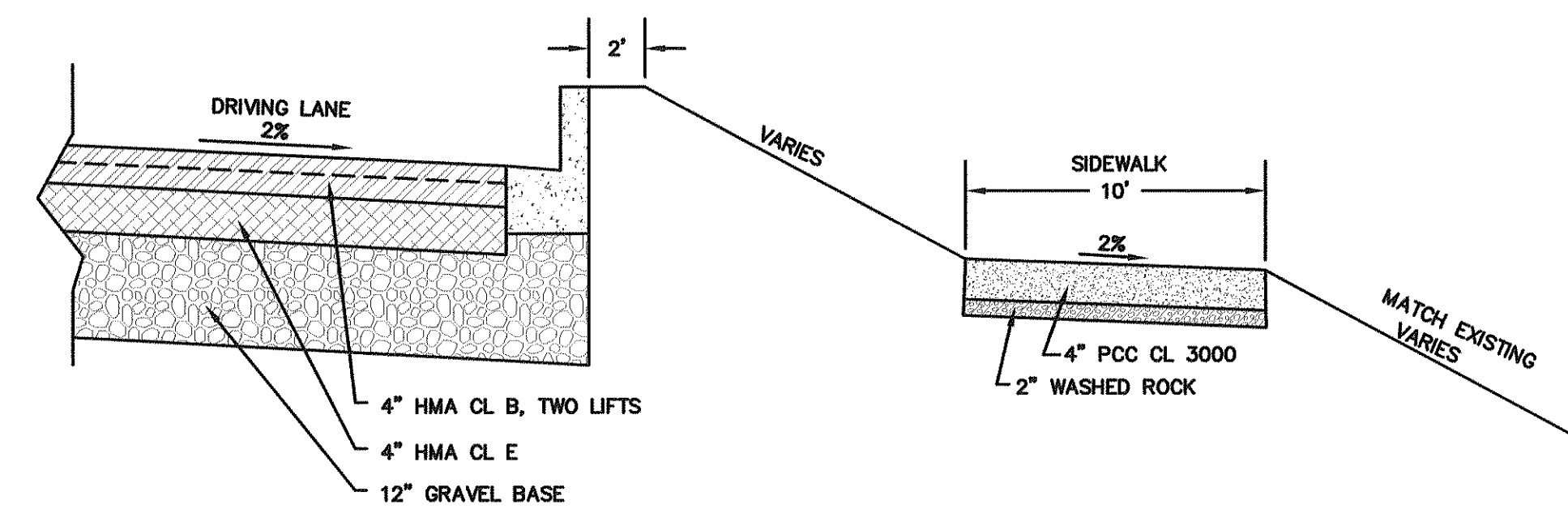
N. VISTA SECTION A-A  
NTS



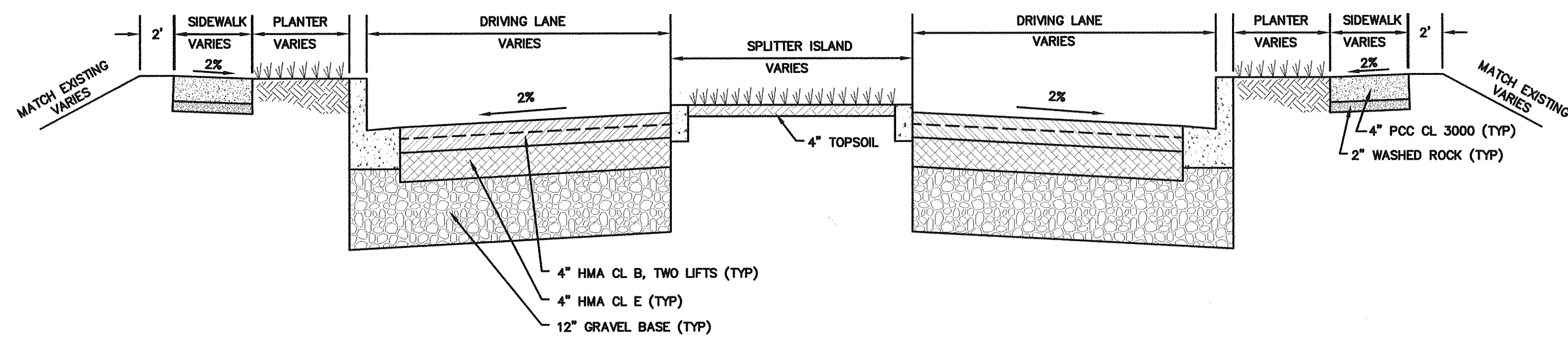
CROSS SECTION W/CENTER ISLAND  
SECTION D-D  
NTS



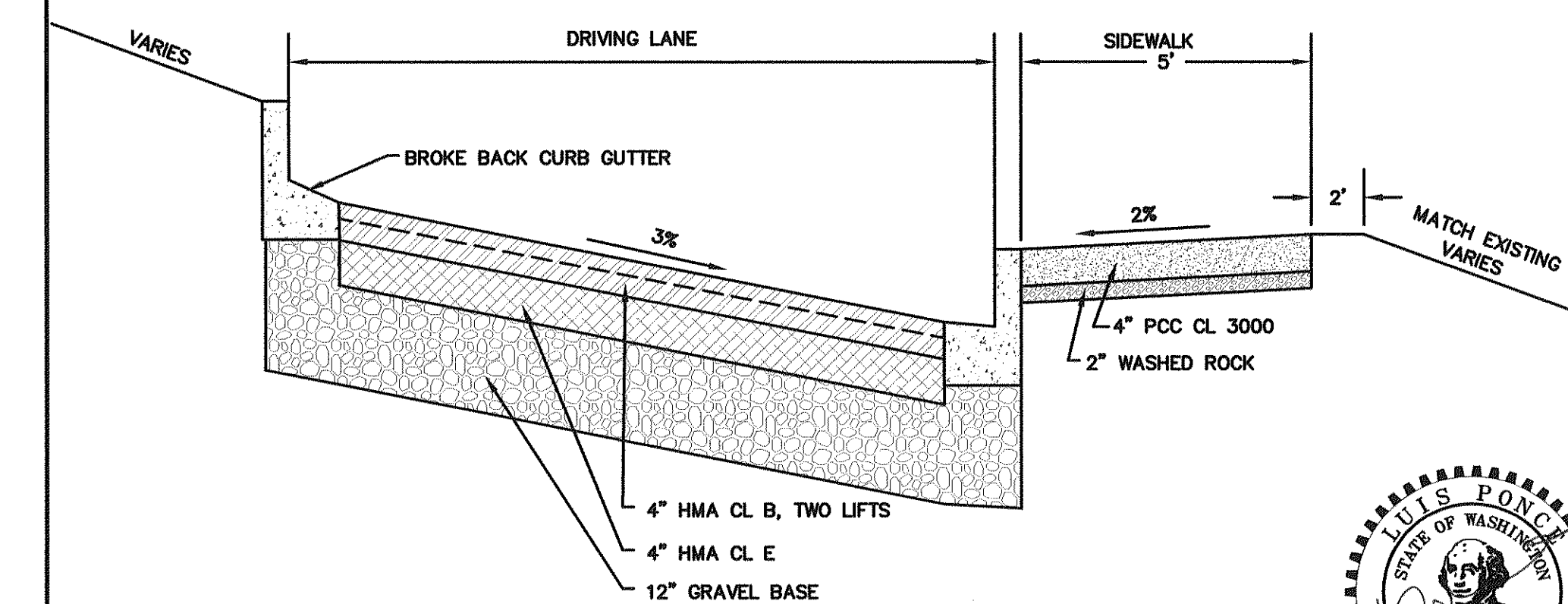
FERNDAL TERRACE SECTION B-B  
NTS



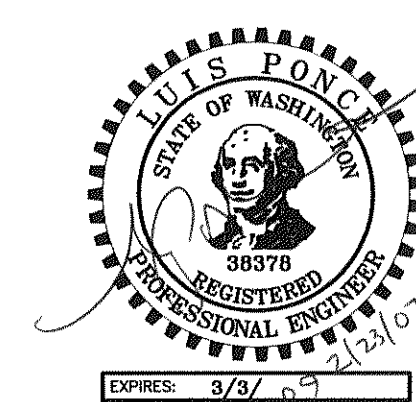
SECTION E-E  
NTS



CROSS SECTION W/SPLITTER ISLAND  
SECTION C-C  
NTS



S. SHUKSAN SECTION F-F  
NTS



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Lynden, Washington 98264 Fax (360) 354-0407

NO.

DATE

REVISION

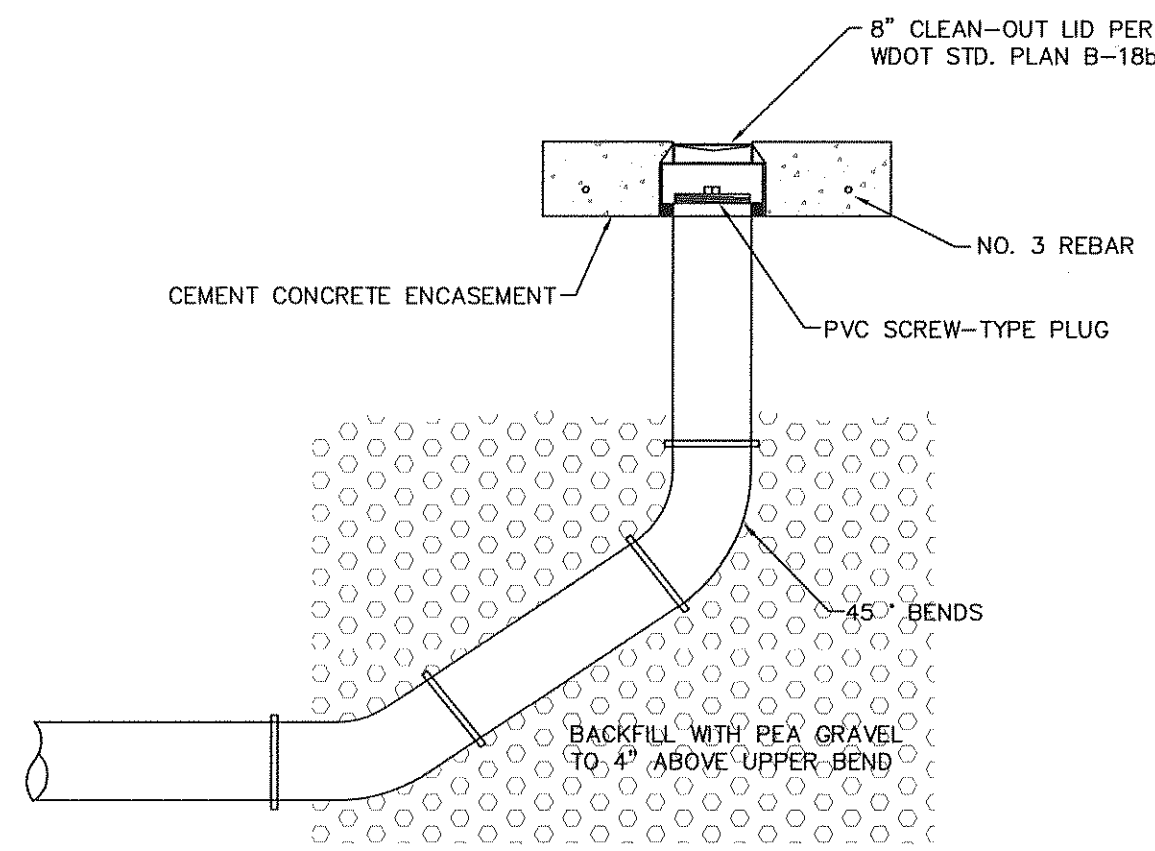
BY

**CITY OF FERNDAL**  
2065 MAIN STREET  
FERNDAL, WASHINGTON 98248

**VISTA AND MALLOY**  
ROUNDAABOUT  
TYPICAL CROSS-SECTIONS

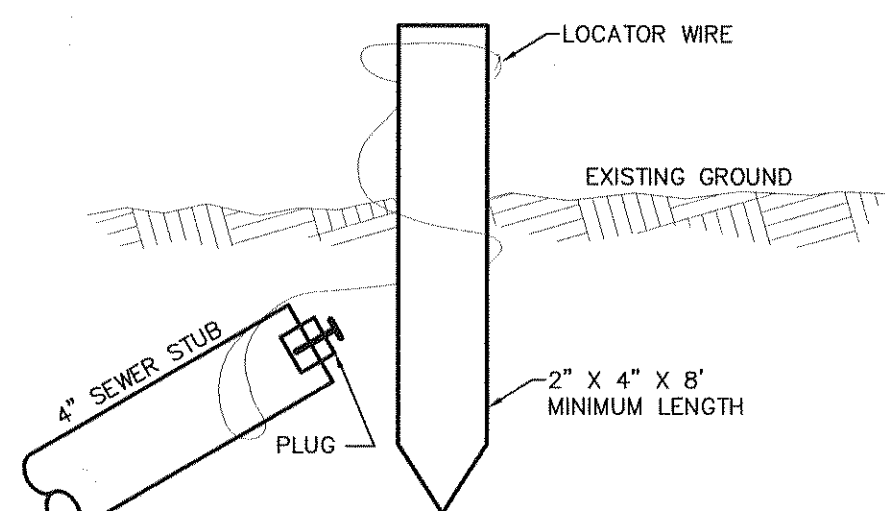
JOB# / DWG  
02008 DET  
SCALE  
H:N/A V:N/A

DATE  
2-23-07  
SHEET  
20 of 24



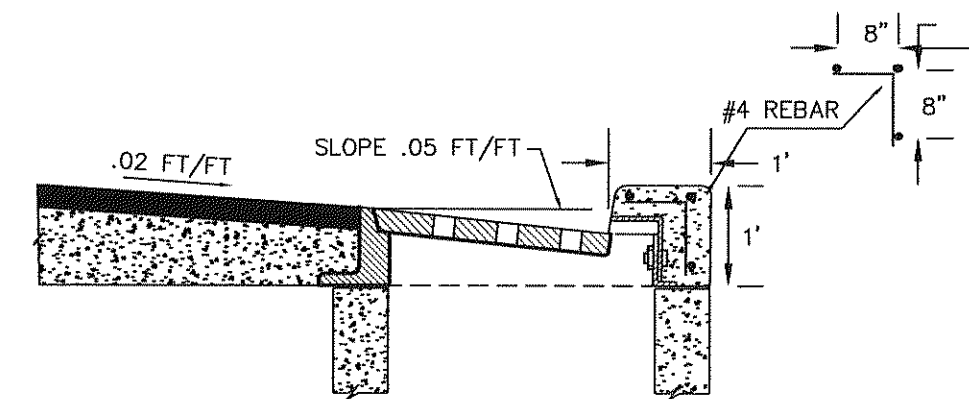
8" SANITARY SEWER CLEAN-OUT DETAIL

NTS

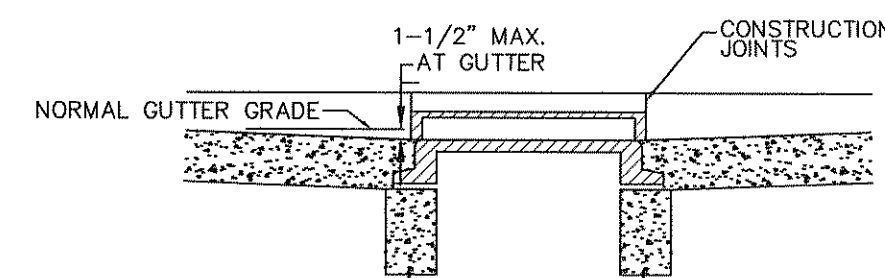


SEWER SERVICE STAKE

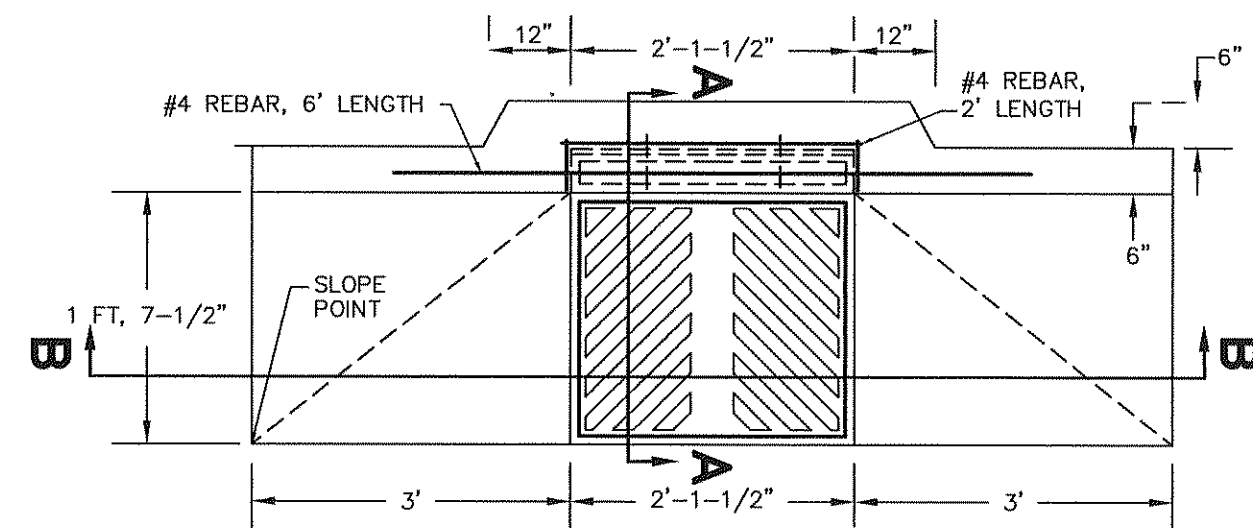
NTS



SECTION A-A

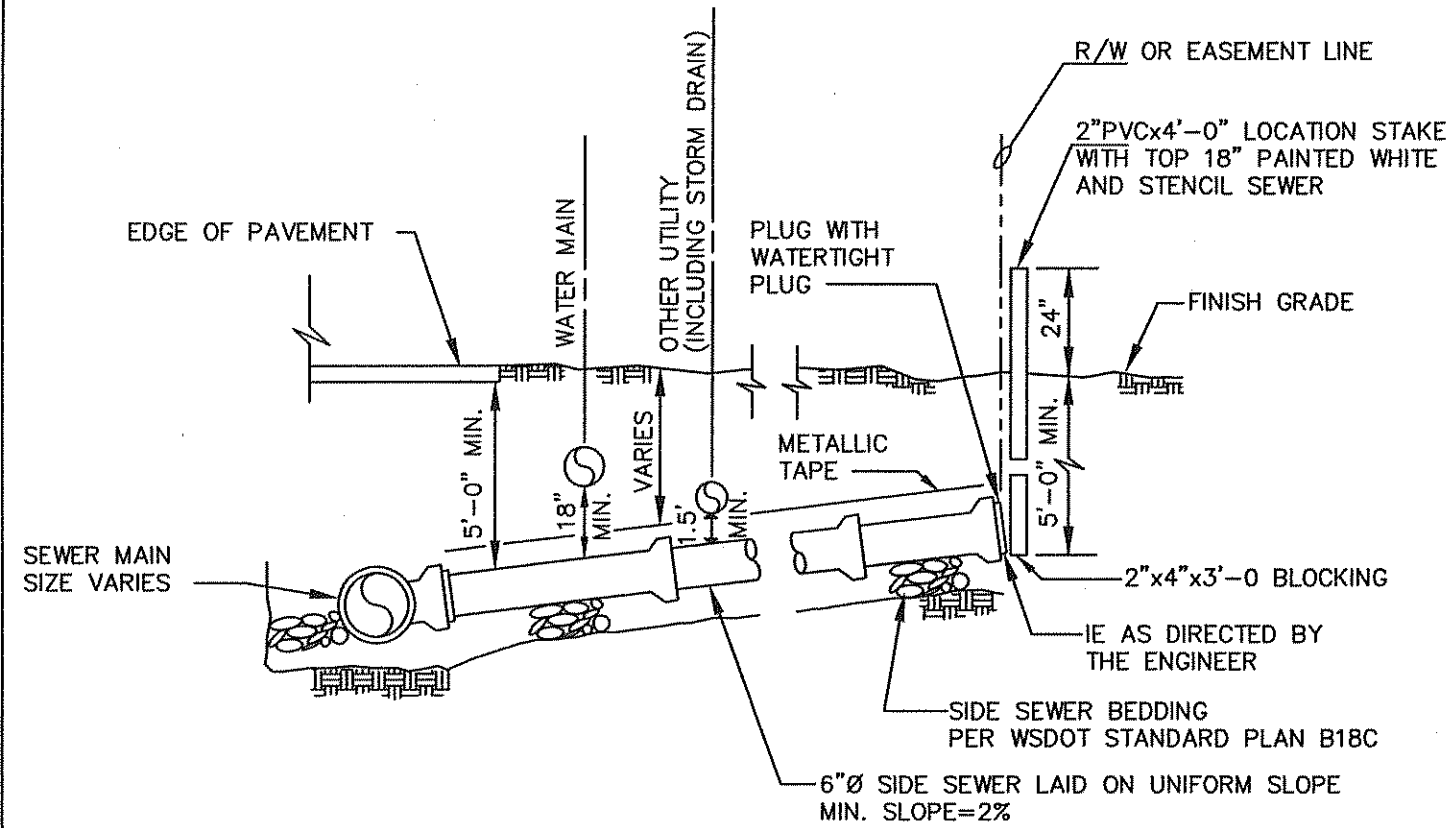


SECTION B-B



THRU CURB INLET DETAIL

NTS

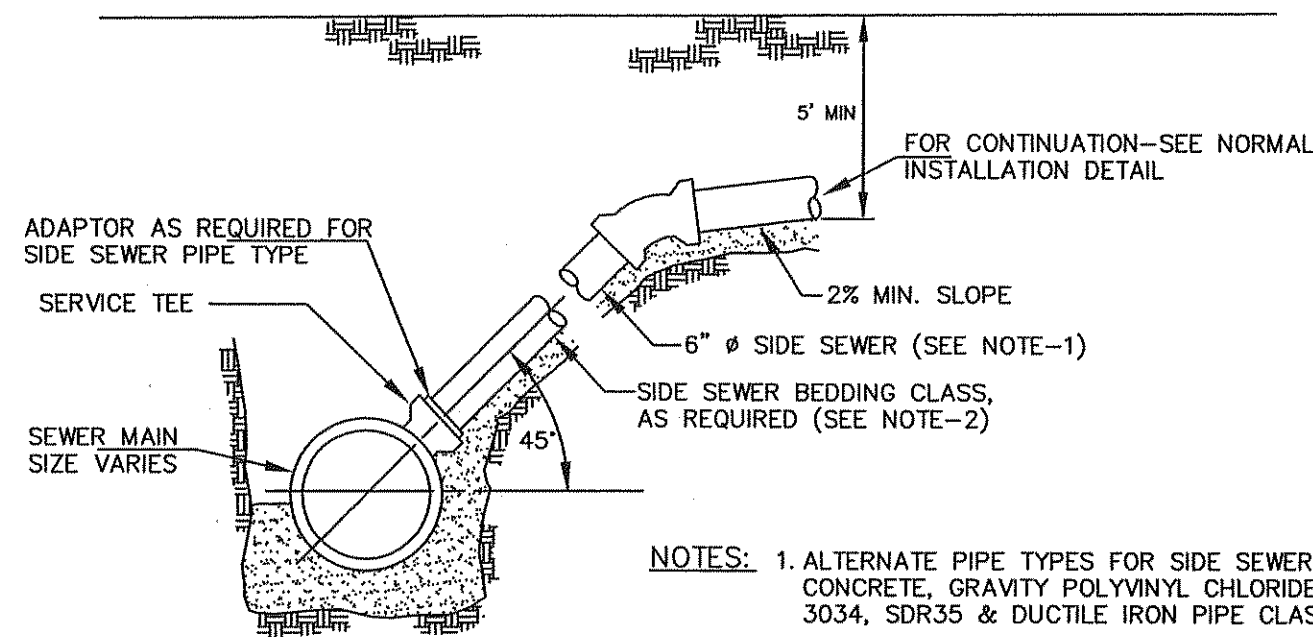


NORMAL INSTALLATION SIDE SEWER  
15" AND SMALLER

NOT TO SCALE

APPROVED	CITY OF FERDALE	DRAWING
Public Works Director	NORMAL INSTALLATION	SS-6
Date	15" AND SMALLER SEWER MAINS	

JUNE 1995



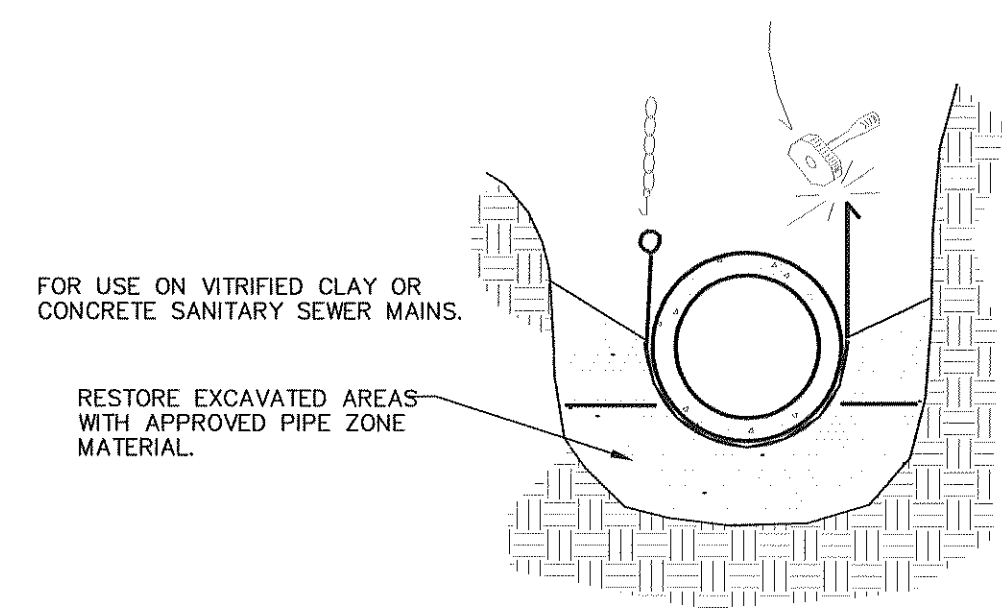
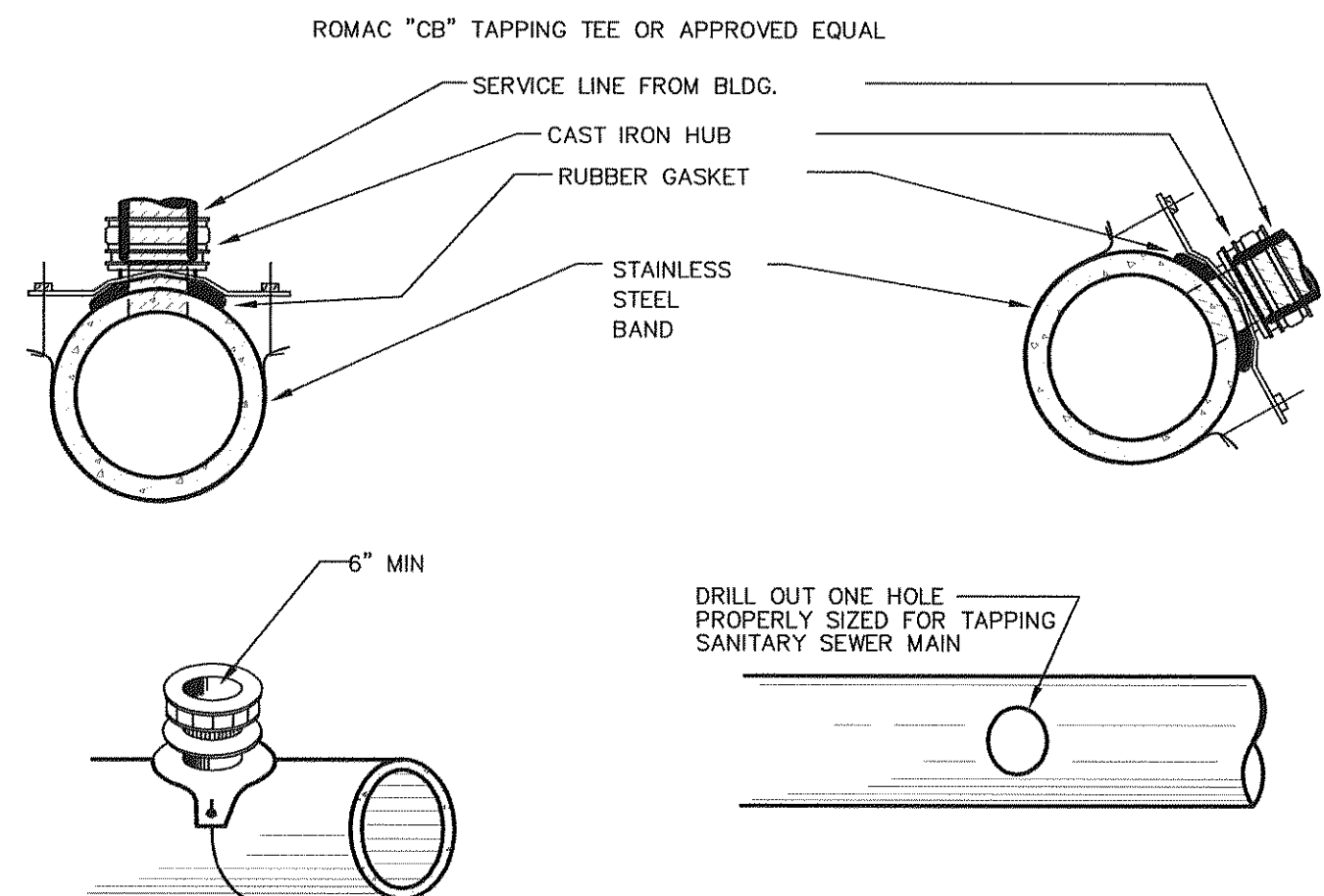
NORMAL INSTALLATION  
18" AND LARGER MAINS

NOT TO SCALE

SIDE SEWER

APPROVED	CITY OF FERDALE	DRAWING
Public Works Director	NORMAL SANITARY SEWER SERVICE	SS-7
Date	INSTALLATION	
	18" AND LARGER MAINS	

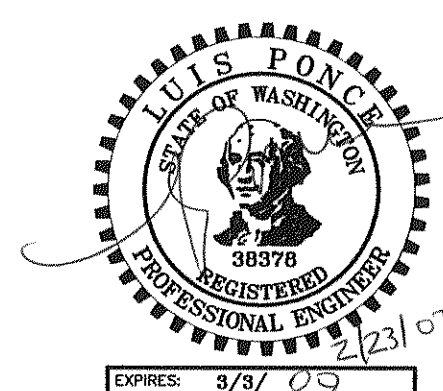
JUNE 1995



NOT TO SCALE

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

JULY 2001



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LP  
DRAWN BY  
LMC  
CHECKED BY



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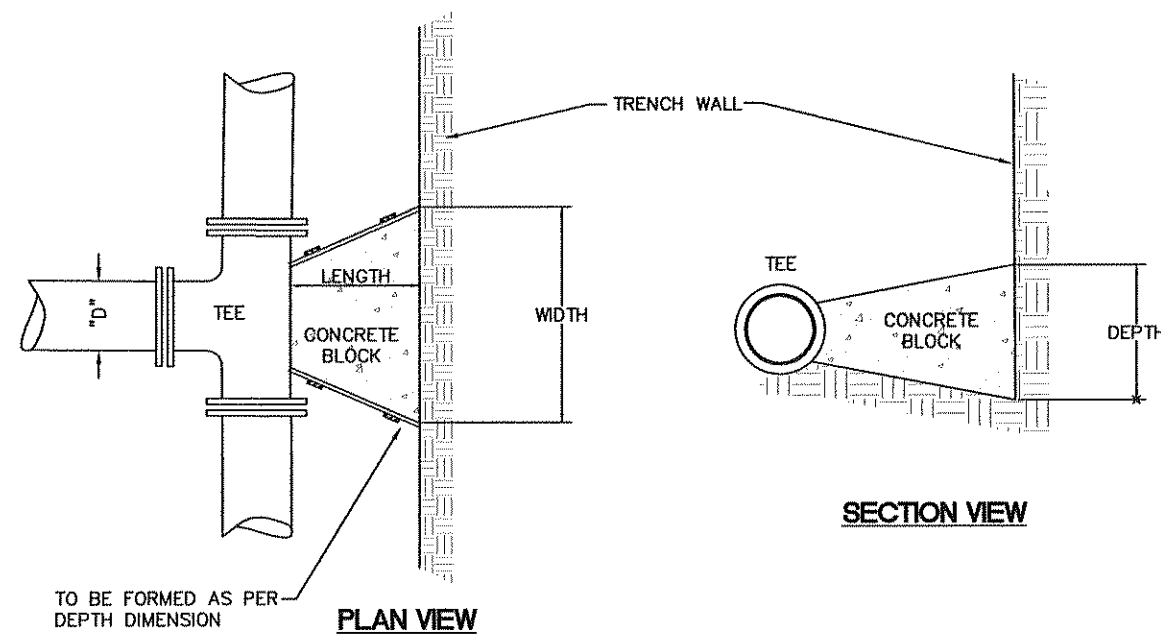
NO. DATE REVISION BY

CITY OF FERDALE  
2005 MAIN STREET  
FERDALE, WASHINGTON 98248

VISTA AND MALLOY  
ROUNDBOUT  
SEWER AND STORM DETAILS

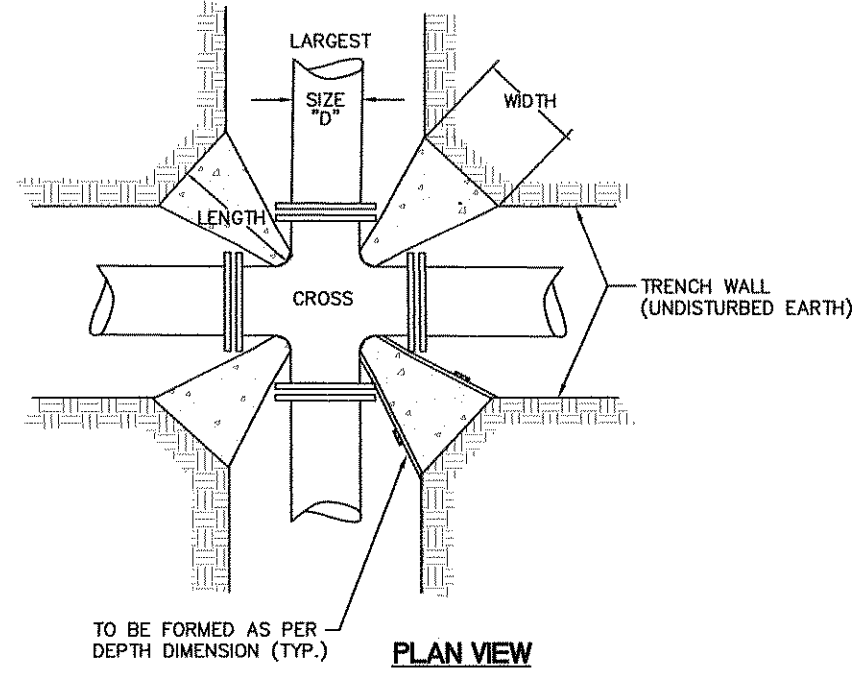
JOB# / DWG	DATE
02008 DET	2-23-07
SCALE	SHEET
H: N/A V: N/A	21 of 24





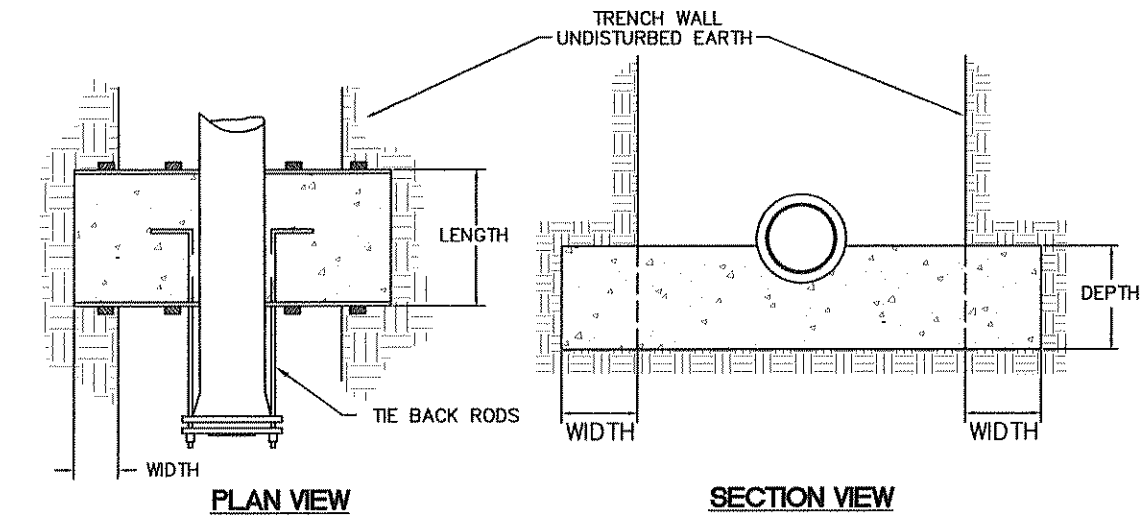
"D"	WIDTH	DEPTH	LENGTH	VOL.
6"	1'-6"	1'-6"	12"	3.0
8"	2'-0"	2'-0"	12"	4.5
10"	2'-6"	2'-6"	12"	7.0
12"	3'-0"	3'-0"	18"	14.0

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



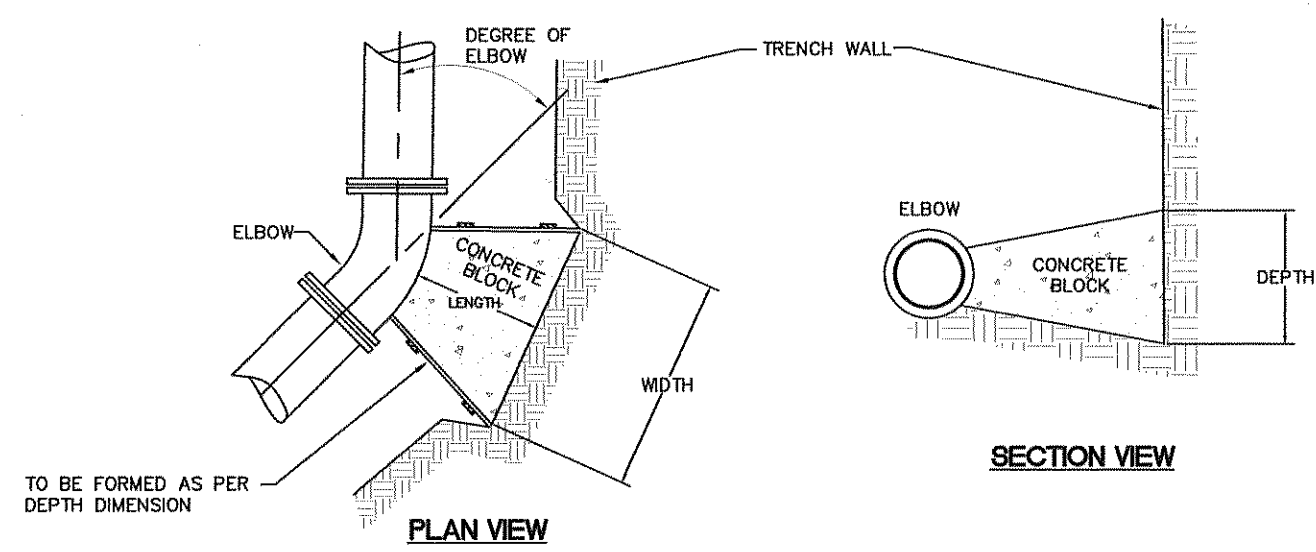
"D"	WIDTH	DEPTH	LENGTH	VOL.	X4 blocks/joint
6"	1'-0"	1'-0"	12"	0.83	2.50 cu. ft.
8"	1'-3"	1'-3"	12"	1.00	4.01 cu. ft.
10"	1'-6"	1'-6"	12"	1.63	6.50 cu. ft.
12"	1'-9"	1'-9"	18"	3.05	12.19 cu. ft.

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



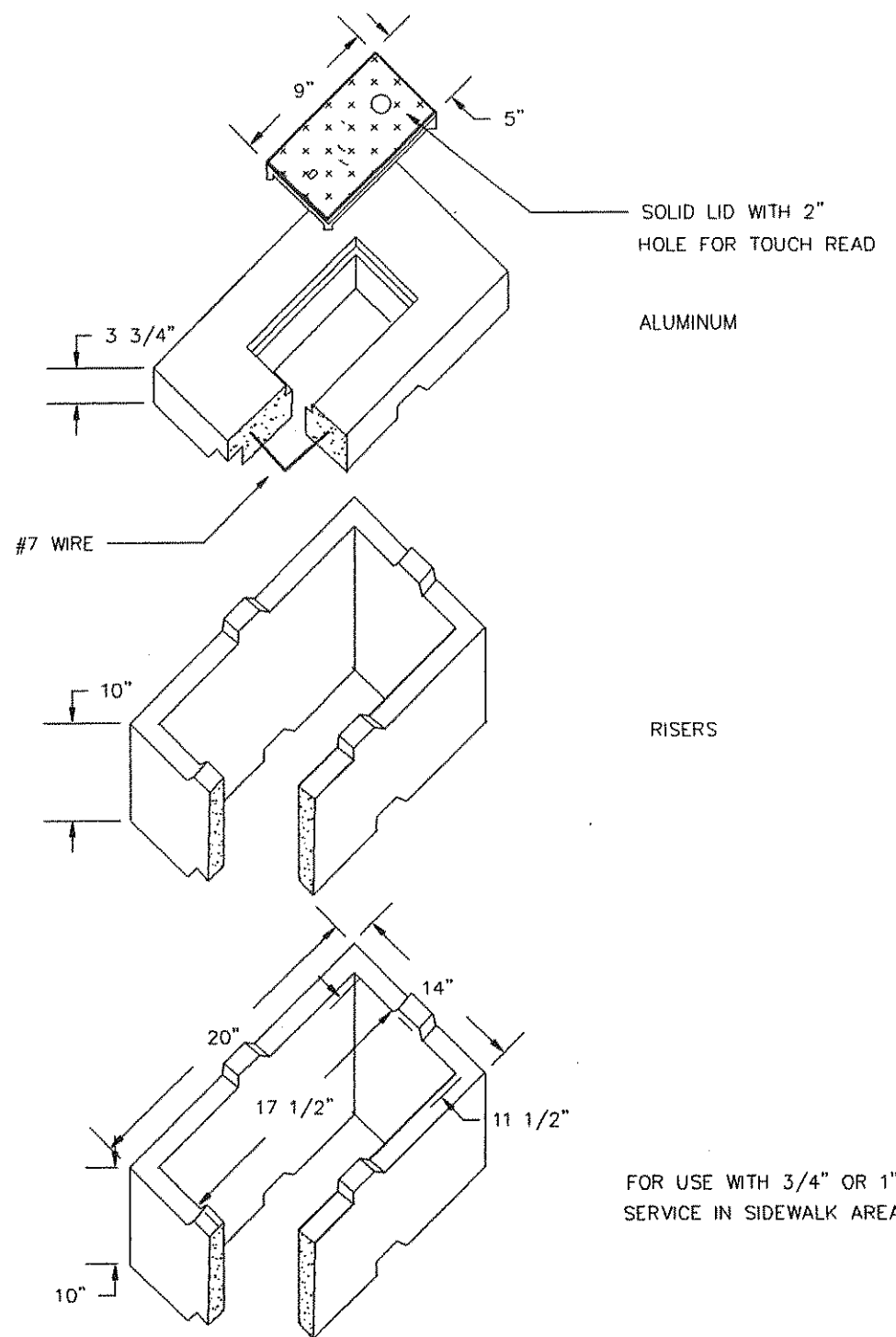
"D"	WIDTH	DEPTH	LENGTH	*VOL.	# OF RODS	ROD DIA.
6"	1'-6"	1'-6"	12"	7.5	2	1/2"
8"	2'-0"	2'-0"	18"	20.0	2	5/8"
10"	2'-6"	2'-6"	24"	37.5	2	3/4"
12"	2'-9"	2'-9"	24"	44.0	4	3/4"

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



SIZE	LENGTH	11 1/4"	22 1/2"	45"	90"
6"	12"	1'-0"	1'-0"	1'-0"	1'-0"
8"	12"	1'-3"	1'-3"	1'-3"	1'-3"
10"	12"	1'-6"	1'-6"	1'-6"	1'-6"
12"	18"	2'-0"	2'-0"	2'-0"	2'-0"

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



APPROVED

Public Works Director Date

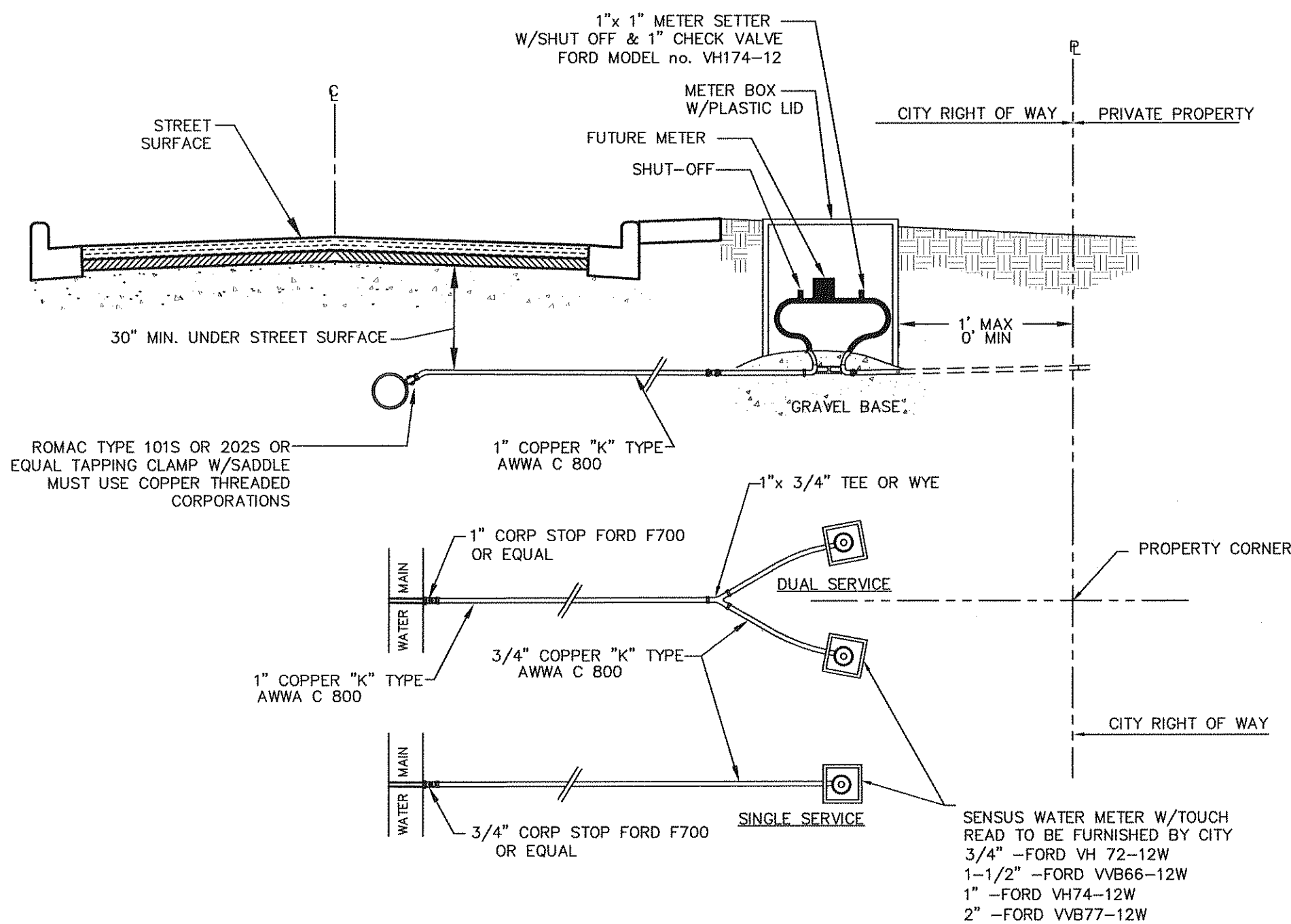
CITY OF FERNDAL  
NO. 1 METER BOX  
FOG TITE

DRAWING  
W-6

JUNE 1995

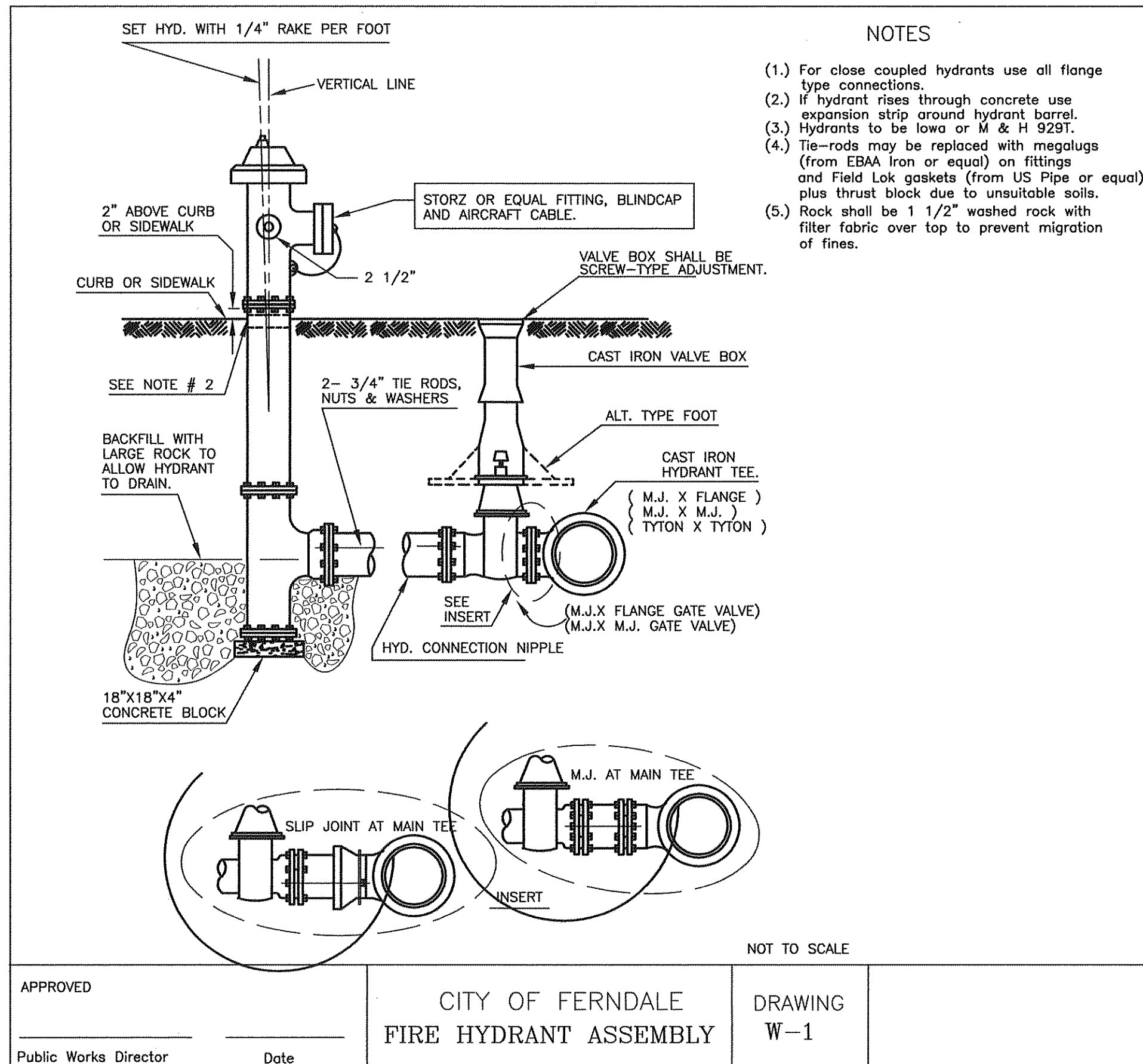
## THRUST BLOCKING

NTS



## WATER SERVICE CONNECTION DETAIL

NTS



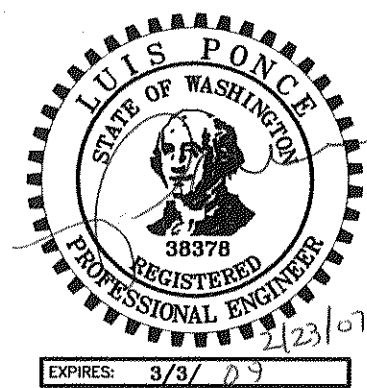
APPROVED

Public Works Director Date

CITY OF FERNDAL  
FIRE HYDRANT ASSEMBLY

DRAWING

W-1



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LP  
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Lynden, Washington 98264 Fax (360) 354-0407

NO.

DATE

REVISION

BY

CITY OF FERNDAL  
2095 MAIN STREET  
FERNDAL, WASHINGTON 98248

VISTA AND MALLOY  
ROUNDAABOUT  
WATER DETAILS

JOB# / DWG  
02008 DET  
SCALE  
H:N/A V:N/A

DATE  
2-23-07  
SHEET  
22 of 24

GENERAL EROSION CONTROL 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 HAVE A WATER TRUCK AVAILABLE ON SITE AT ALL TIMES. CONTRACTOR WILL WATER SURFACES OFTEN ENOUGH TO ABATE DUST AS APPROVED BY THE ENGINEER. WATERING WILL INCLUDE WEEKENDS AND HOLIDAYS.
5. THE CONTRACTOR WILL CONSTRUCT A CONSTRUCTION ENTRANCE AS SHOWN IN THE CONSTRUCTION ENTRANCE DETAIL ON THIS SHEET AT EACH ENTRANCE FROM A STAGING OR WORK AREA ONTO A PUBLIC ROAD OR NON-STAGING OR NON-WORKING AREA.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SEDIMENTATION AND EROSION CONTROL MEASURES AS SHOWN.
7. THE CONSTRUCTED EROSION CONTROL AND SEDIMENTATION PLAN SHALL BE APPROVED BY THE ENGINEER PRIOR TO PERFORMING ANY SITE GRADING OR CLEARING.
8. 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.
9. ANY VEGETATION NOT IN THE CONSTRUCTION AREA SHALL BE LEFT UNDISTURBED.
10. ALL CLEARING LIMITS SHALL BE VISIBLY MARKED PRIOR TO CLEARING.
11. 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.
12. THIS PLAN REPRESENTS THE MINIMUM REQUIREMENTS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MAY BE REQUIRED BY THE ENGINEER AS ARE FOUND NECESSARY.
13. THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE INSTALLED PRIOR TO ALL OTHER SITE CONSTRUCTION.
14. REFERENCE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE & MUNICIPAL CONSTRUCTION, 2006, M 41-10, 8-01.3(b) FOR STREET SWEEPING REQUIREMENTS.



STABILIZED CONSTRUCTION ENTRANCE  
NTS



FILTER FABRIC FENCE DETAIL  
NTS

LEGEND

WASHINGTON STATE DEPT. OF ECOLOGY  
BEST MANAGEMENT PRACTICES (BMP)  
REF.: STORMWATER MANAGEMENT MANUAL  
FOR THE PUGET SOUND BASIN, 2006



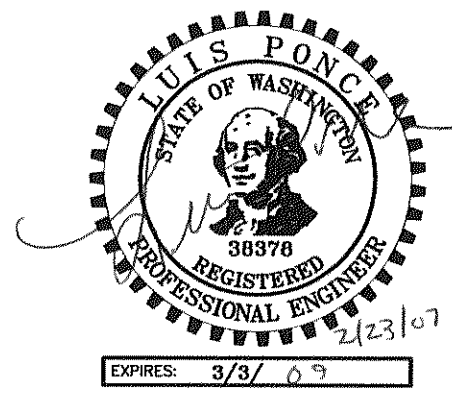
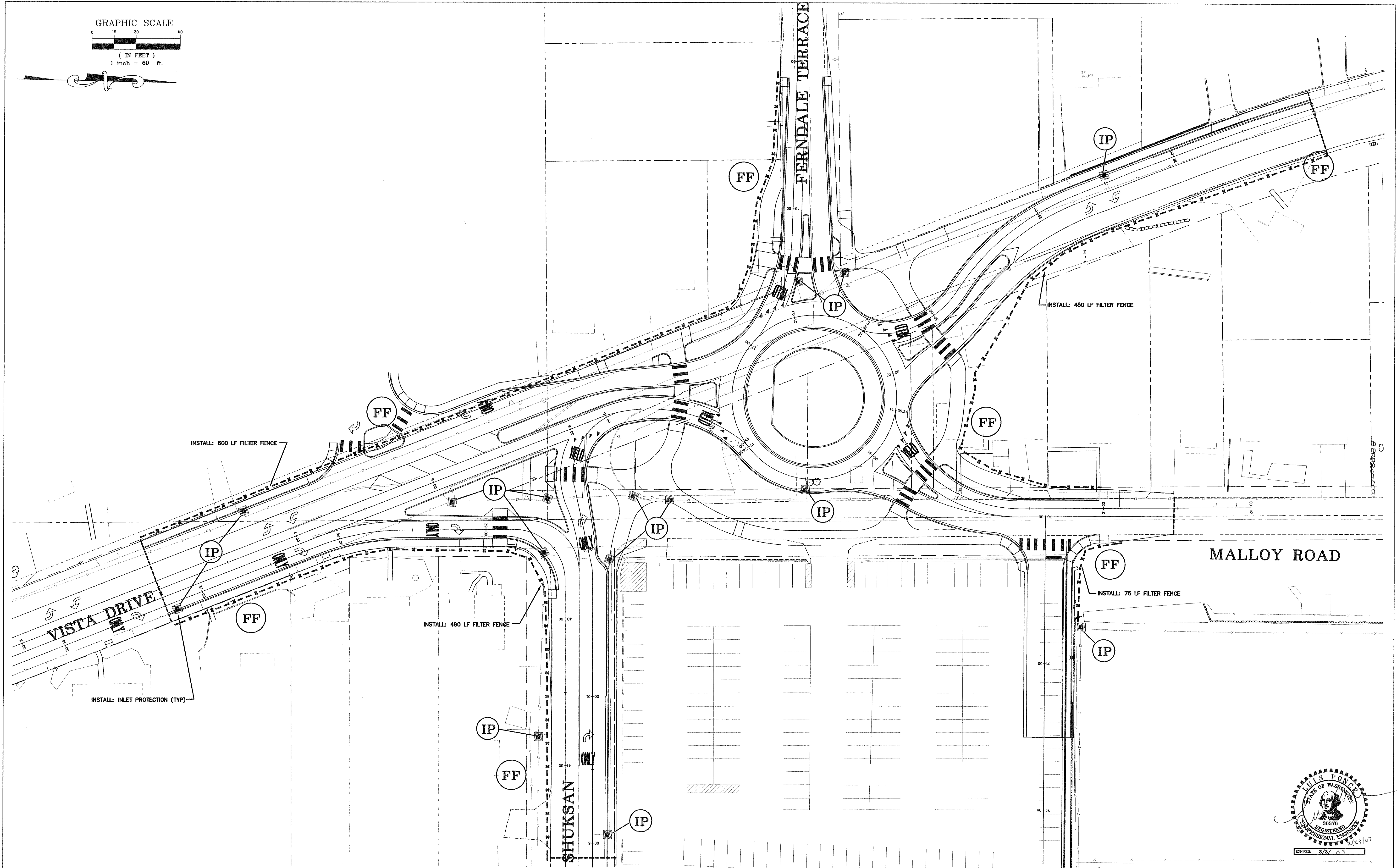
INLET PROTECTION DETAIL  
NTS



NETS AND BLANKETS  
SLOPE INSTALLATION  
NTS



GRAPHIC SCALE  
0 15 30 60  
( IN FEET )  
1 inch = 60 ft.



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LP  
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LMC  
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NO.	DATE	REVISION	BY

CITY OF FERNDALE  
2095 MAIN STREET  
FERNDALE, WASHINGTON 98248

**VISTA AND MALLOY ROUNDABOUT**  
EROSION CONTROL PLAN

JOB# / DWG  
02008 SP3.EC  
SCALE  
H: 1" = 30' V: N/A

DATE  
2-23-07  
SHEET  
**24 of 24**

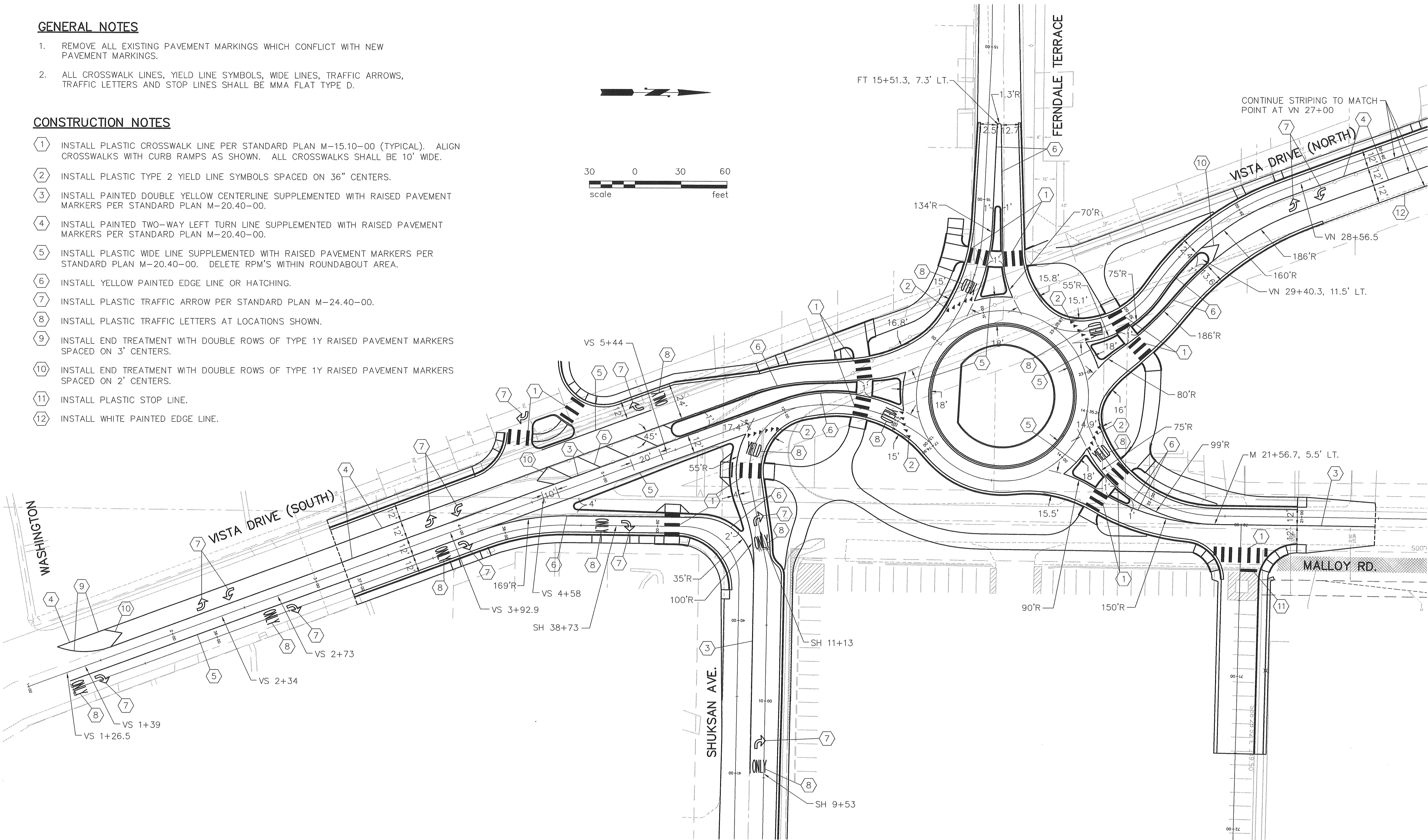
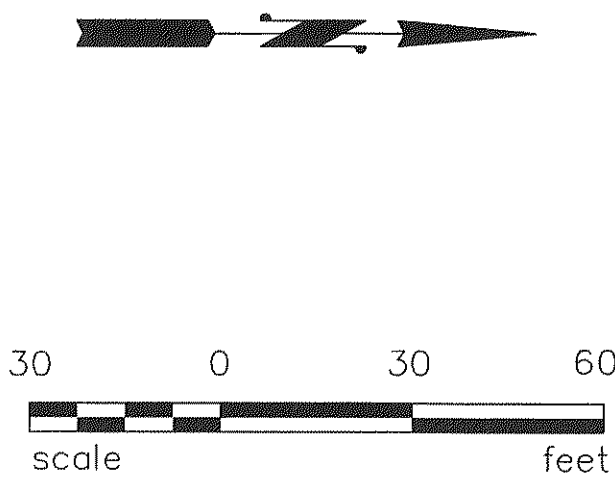


GENERAL NOTES

1. REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH NEW PAVEMENT MARKINGS.
2. ALL CROSSWALK LINES, YIELD LINE SYMBOLS, WIDE LINES, TRAFFIC ARROWS, TRAFFIC LETTERS AND STOP LINES SHALL BE MMA FLAT TYPE D.

CONSTRUCTION NOTES

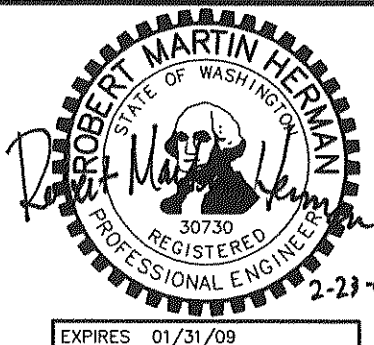
1. INSTALL PLASTIC CROSSWALK LINE PER STANDARD PLAN M-15.10-00 (TYPICAL). ALIGN CROSSWALKS WITH CURB RAMPS AS SHOWN. ALL CROSSWALKS SHALL BE 10' WIDE.
2. INSTALL PLASTIC TYPE 2 YIELD LINE SYMBOLS SPACED ON 36" CENTERS.
3. INSTALL PAINTED DOUBLE YELLOW CENTERLINE SUPPLEMENTED WITH RAISED PAVEMENT MARKERS PER STANDARD PLAN M-20.40-00.
4. INSTALL PAINTED TWO-WAY LEFT TURN LINE SUPPLEMENTED WITH RAISED PAVEMENT MARKERS PER STANDARD PLAN M-20.40-00.
5. INSTALL PLASTIC WIDE LINE SUPPLEMENTED WITH RAISED PAVEMENT MARKERS PER STANDARD PLAN M-20.40-00. DELETE RPM'S WITHIN ROUNDABOUT AREA.
6. INSTALL YELLOW PAINTED EDGE LINE OR HATCHING.
7. INSTALL PLASTIC TRAFFIC ARROW PER STANDARD PLAN M-24.40-00.
8. INSTALL PLASTIC TRAFFIC LETTERS AT LOCATIONS SHOWN.
9. INSTALL END TREATMENT WITH DOUBLE ROWS OF TYPE 1Y RAISED PAVEMENT MARKERS SPACED ON 3' CENTERS.
10. INSTALL END TREATMENT WITH DOUBLE ROWS OF TYPE 1Y RAISED PAVEMENT MARKERS SPACED ON 2' CENTERS.
11. INSTALL PLASTIC STOP LINE.
12. INSTALL WHITE PAINTED EDGE LINE.



DRAWN	RMH				
DESIGNED	RMH				
CHECKED	2/23/07 RMH				
PROJ. ENGR.					
DRAWING FILE	C.DWG				
DATE	REVISION	BY	APP'D		



CITY OF FERDALE  
2095 Main Street  
Ferndale, Washington 98248



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

VISTA DRIVE / MALLOY ROAD IMPROVEMENTS  
CITY OF FERDALE

PAVEMENT MARKING PLAN

C1

SHEET  
OF  
SHEETS



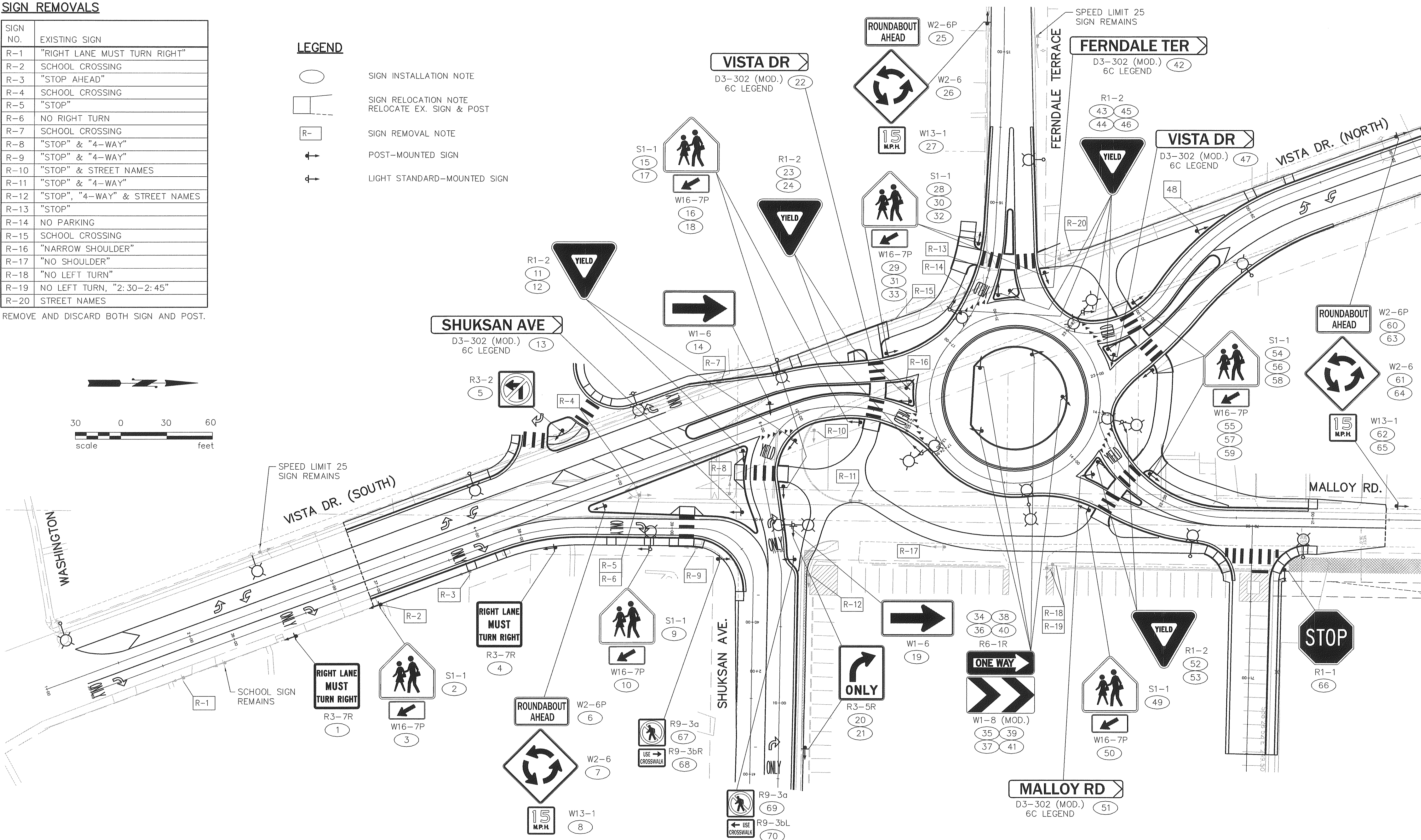
SIGN REMOVALS

SIGN NO.	EXISTING SIGN
R-1	"RIGHT LANE MUST TURN RIGHT"
R-2	SCHOOL CROSSING
R-3	"STOP AHEAD"
R-4	SCHOOL CROSSING
R-5	"STOP"
R-6	NO RIGHT TURN
R-7	SCHOOL CROSSING
R-8	"STOP" & "4-WAY"
R-9	"STOP" & "4-WAY"
R-10	"STOP" & STREET NAMES
R-11	"STOP" & "4-WAY"
R-12	"STOP", "4-WAY" & STREET NAMES
R-13	"STOP"
R-14	NO PARKING
R-15	SCHOOL CROSSING
R-16	"NARROW SHOULDER"
R-17	"NO SHOULDER"
R-18	"NO LEFT TURN"
R-19	NO LEFT TURN, "2:30-2:45"
R-20	STREET NAMES

REMOVE AND DISCARD BOTH SIGN AND POST.

LEGEND

- SIGN INSTALLATION NOTE
- SIGN RELOCATION NOTE  
RELOCATE EX. SIGN & POST
- SIGN REMOVAL NOTE
- POST-MOUNTED SIGN
- LIGHT STANDARD-MOUNTED SIGN



DRAWN	RMH				
DESIGNED	RMH				
CHECKED	2/23/07 RMH				
PROJ. ENGR.					
DRAWING FILE	IL.DWG				
DATE		REVISION		BY	APP'D

CITY OF FERDALE  
2095 Main Street  
Ferndale, Washington 98248

ROBERT MARTIN HERMAN  
PROFESSIONAL ENGINEER  
EXPIRES 01/31/09

HIE HERMAN TRAFFIC ENGINEERING

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

VISTA DRIVE / MALLOY ROAD IMPROVEMENTS CITY OF FERDALE	S1
SIGNING PLAN	SHEET OF SHEETS



## SIGN SPECIFICATION




SIGN NO.	SIGN CODE AND DESCRIPTION	SIGN LOCATION		SIGN SIZE		POST MATERIAL	POST SIZE	POST LENGTH	CLRNC V	REMARKS
		STATION	OFFSET	X	Y					
1	R3-7R, "RIGHT LANE MUST TURN RIGHT"	VS 2+65.5	24' RT.	30"	30"	STEEL	2"	13'	7'	
2	S1-1, SCHOOL CROSSWALK	VS 3+24.5	24' RT.	36"	36"	STEEL	2"	13'	7'	
3	W16-7P, ARROW PLAQUE	VS 3+24.5	24' RT.	24"	12"					MOUNT BELOW #2
4	R3-7R, "RIGHT LANE MUST TURN RIGHT"	SH 38+22	13' RT.	30"	30"	STEEL	2"	13'	7'	
5	R3-2, NO LEFT TURN	VS 4+76.5	42.5' LT.	30"	30"	STEEL	2"	13'	7'	
6	W2-6P, "ROUNDAABOUT AHEAD"	VS 4+85.5	14.5' RT.	36"	18"	STEEL	2"	16'	11.5'	
7	W2-6, ROUNDAABOUT INTERSECTION	VS 4+85.5	14.5' RT.	36"	36"					MOUNT BELOW #6
8	W13-1, "15 MPH"	VS 4+85.5	14.5' RT.	18"	18"					MOUNT BELOW #7
9	S1-1, SCHOOL CROSSWALK	SH 38+86	14' RT.	36"	36"	LIGHT STANDARD			7'	MOUNT ON L.S. #9
10	W16-7P, ARROW PLAQUE	SH 38+86	14' RT.	24"	12"					MOUNT BELOW #9
11	R1-2, "YIELD"	VS 5+83	11' RT.	36"	36"	STEEL	2"	13'	7'	
12	R1-2, "YIELD"	VS 6+17.5	16.5' RT.	36"	36"	STEEL	2"	13'	7'	
13	D3-302 (MOD.), "SHUKSAN AVE"	SH 39+37.5	18.5' LT.	60"	12"	STEEL	2-2"	11'	7'	
14	W1-6, LARGE ARROW	VS 6+10	12.5' LT.	48"	24"	STEEL	2-2"	12'	7'	
15	S1-1, SCHOOL CROSSWALK	SH 11+41.5	12' RT.	36"	36"	STEEL	2"	13'	7'	
16	W16-7P, ARROW PLAQUE	SH 11+41.5	12' RT.	24"	12"					MOUNT BELOW #15
17	S1-1, SCHOOL CROSSWALK	VS 6+68.5	9.5' RT.	36"	36"	STEEL	2"	13'	7'	
18	W16-7P, ARROW PLAQUE	VS 6+68.5	9.5' RT.	24"	12"					MOUNT BELOW #17
19	W1-6, LARGE ARROW	SH 11+15	13.5' RT.	48"	24"					MOUNT BELOW #20
20	R3-5R, RIGHT ONLY	SH 11+15	13.5' RT.	30"	36"	LIGHT STANDARD			7'	MOUNT ON L.S. #8
21	R3-5R, RIGHT ONLY	SH 9+71	17.5' RT.	30"	36"	STEEL	2"	13'	7'	
22	D3-302 (MOD.), "VISTA DR"	VS 6+91	20' LT.	48"	12"	STEEL	2-2"	11'	7'	
23	R1-2, "YIELD"	VS 6+95.5	13' LT.	36"	36"	STEEL	2"	13'	7'	
24	R1-2, "YIELD"	VS 7+19.5	13.5' RT.	36"	36"	LIGHT STANDARD			7'	MOUNT ON L.S. #7
25	W2-6P, "ROUNDAABOUT AHEAD"	FT 14+81.5	11' RT.	36"	18"	STEEL	2"	16'	11.5'	
26	W2-6, ROUNDAABOUT INTERSECTION	FT 14+81.5	11' RT.	36"	36"					MOUNT BELOW #25
27	W13-1, "15 MPH"	FT 14+81.5	11' RT.	18"	18"					MOUNT BELOW #26
28	S1-1, SCHOOL CROSSWALK	FT 16+28.5	10.5' RT.	36"	36"	STEEL	2"	13'	7'	
29	W16-7P, ARROW PLAQUE	FT 16+28.5	10.5' RT.	24"	12"					MOUNT BELOW #28
30	S1-1, SCHOOL CROSSWALK	FT 16+38.5	35.5' LT.	36"	36"	STEEL	2"	13'	7'	
31	W16-7P, ARROW PLAQUE	FT 16+38.5	35.5' LT.	24"	12"					MOUNT BELOW #30
32	S1-1, SCHOOL CROSSWALK	VS 6+76	38' LT.	36"	36"	STEEL	2"	13'	7'	
33	W16-7P, ARROW PLAQUE	VS 6+76	38' LT.	24"	12"					MOUNT BELOW #32
34	R6-1R, "ONE WAY"	FT 17+00	26' LT.	36"	12"	STEEL	2"	12'	4.5'	
35	W1-8 (MOD.), DOUBLE CHEVRON	FT 17+00	26' LT.	36"	24"					MOUNT BELOW #34
36	R6-1R, "ONE WAY"	SH 13+13	25.5' LT.	36"	12"	STEEL	2"	12'	4.5'	
37	W1-8 (MOD.), DOUBLE CHEVRON	SH 13+13	25.5' LT.	36"	24"					MOUNT BELOW #36
38	R6-1R, "ONE WAY"	M 22+86	25' LT.	36"	12"	STEEL	2"	12'	4.5'	
39	W1-8 (MOD.), DOUBLE CHEVRON	M 22+86	25' LT.	36"	24"					MOUNT BELOW #38
40	R6-1R, "ONE WAY"	VN 30+67	25.5' LT.	36"	12"	STEEL	2"	12'	4.5'	
41	W1-8 (MOD.), DOUBLE CHEVRON	VN 30+67	25.5' LT.	36"	24"					MOUNT BELOW #40
42	D3-302 (MOD.), "FERNDALDE TER"	FT 16+53.5	16.5' LT.	66"	12"	STEEL	2-2"	11'	7'	
43	R1-2, "YIELD"	FT 16+81	14' RT.	36"	36"	LIGHT STANDARD			7'	MOUNT ON L.S. #4
44	R1-2, "YIELD"	FT 16+58.5	11' LT.	36"	36"	STEEL	2"	13'	7'	
45	R1-2, "YIELD"	VN 30+42.5	14' RT.	36"	36"	LIGHT STANDARD			7'	MOUNT ON L.S. #6
46	R1-2, "YIELD"	VN 30+26	11.5' LT.	36"	36"	STEEL	2"	13'	7'	
47	D3-302 (MOD.), "VISTA DR"	VN 30+24	16' LT.	48"	12"	STEEL	2-2"	11'	7'	
48	"SCHOOL SPEED LIMIT 20"	VN 29+34.5	11' RT.	EX.	EX.	EX.			7'	RELOCATE
49	S1-1, SCHOOL CROSSWALK	M 22+27	34.5' LT.	36"	36"	STEEL	2"	13'	7'	
50	W16-7P, ARROW PLAQUE	M 22+27	34.5' LT.	24"	12"					MOUNT BELOW #49
51	D3-302 (MOD.), "MALLOY RD"	M 22+41.5	18' LT.	54"	12"	STEEL	2-2"	11'	7'	
52	R1-2, "YIELD"	M 22+46	11.5' LT.	36"	36"	STEEL	2"	13'	7'	
53	R1-2, "YIELD"	M 22+63	14.5' RT.	36"	36"	LIGHT STANDARD			7'	MOUNT ON L.S. #11
54	S1-1, SCHOOL CROSSWALK	VN 29+99	10' RT.	36"	36"	STEEL	2"	13'	7'	
55	W16-7P, ARROW PLAQUE	VN 29+99	10' RT.	24"	12"					MOUNT BELOW #54
56	S1-1, SCHOOL CROSSWALK	VN 30+11	35' LT.	36"	36"	STEEL	2"	13'	7'	
57	W16-7P, ARROW PLAQUE	VN 30+11	35' LT.	24"	12"					MOUNT BELOW #56
58	S1-1, SCHOOL CROSSWALK	M 22+18	10.5' RT.	36"	36"	STEEL	2"	13'	7'	

SIGN SPECIFICATION CONTINUED

SIGN NO.	SIGN CODE AND DESCRIPTION	SIGN LOCATION		SIGN SIZE		POST MATERIAL	POST SIZE	POST LENGTH	CLRNC V	REMARKS
		STATION	OFFSET	X	Y					
59	W16-7P, ARROW PLAQUE	M 22+18	10.5' RT.	24"	12"					MOUNT BELOW #58
60	W2-6P, "ROUNDAABOUT AHEAD"	VN 27+93	11.5' RT.	36"	18"	STEEL	2"	16'	11.5'	
61	W2-6, ROUNDAABOUT INTERSECTION	VN 27+93	11.5' RT.	36"	36"					MOUNT BELOW #60
62	W13-1, "15 MPH"	VN 27+93	11.5' RT.	18"	18"					MOUNT BELOW #61
63	W2-6P, "ROUNDAABOUT AHEAD"	M 20+45.5	9.5' RT.	36"	18"	STEEL	2"	16'	11.5'	
64	W2-6, ROUNDAABOUT INTERSECTION	M 20+45.5	9.5' RT.	36"	36"					MOUNT BELOW #63
65	W13-1, "15 MPH"	M 20+45.5	9.5' RT.	18"	18"					MOUNT BELOW #64
66	R1-1, "STOP"	M 21+18	34' LT.	36"	36"	STEEL	2"	13'	7'	
67	R9-3a, NO PEDS	SH 39+42	16' RT.	18"	18"	STEEL	2"	12'	7.5'	
68	R9-3bR, "USE CROSSWALK"	SH 39+42	16' RT.	18"	12"					MOUNT BELOW #67
69	R9-3a, NO PEDS	SH 39+65	29' LT.	18"	18"	STEEL	2"	12'	7.5'	
70	R9-3bL, "USE CROSSWALK"	SH 39+65	29' LT.	18"	12"					MOUNT BELOW #69

SIGNING NOTES:

1. POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION.
2. FOR STRUCTURE AND MOUNTING DETAILS, SEE WSDOT STANDARD PLAN SERIES "G".
3. FOR CODE REFERENCES AND STANDARD SIGN LAYOUT DETAILS SEE WSDOT "SIGN FABRICATION MANUAL".

							 <div>CITY OF FERDALE 2095 Main Street Ferndale, Washington 98248</div>		 <div>HERMAN TRAFFIC ENGINEERING 15324 Southeast 133rd Court, Renton, Washington 98059 425-277-1740 tel. 425-277-5718 fax hte@comcast.net</div>	VISTA DRIVE / MALLOY ROAD IMPROVEMENTS CITY OF FERDALE	S2	
DRAWN RMH												SHEET
DESIGNED RMH												OF
CHECKED 2/23/07 RMH												SHEETS
PROJ. ENGR.												
DRAWING FILE IL.DWG												
	DATE		REVISION		BY	APP'D						



CONSTRUCTION NOTES

- 1
- INSTALL FOUNDATION, LIGHT STANDARD AND LUMINAIRE. LIGHT STANDARDS SHALL HAVE DOUBLE ARMS WHERE SHOWN. USE WSDOT STANDARD PLANS J-1b AND J-1e AND FOUNDATION DETAIL ON SHEET IL2. SEE POLE SCHEDULE THIS SHEET.
- 2
- INSTALL FOUNDATION AND ELECTRICAL SERVICE CABINET. USE BELLINGHAM STANDARD DRAWINGS EL-400 AND EL-444.
- 3
- COORDINATE WITH PUGET SOUND ENERGY FOR INSTALLATION OF LUMINAIRE AND ARM ON EXISTING OR RELOCATED UTILITY POLE. SEE POLE SCHEDULE.
- 4
- ROUTE SERVICE ENTRANCE CONDUIT AND CONDUCTORS TO EXISTING UTILITY POLE PER PUGET SOUND ENERGY REQUIREMENTS. COORDINATE WITH PSE FOR SERVICE CONNECTION.

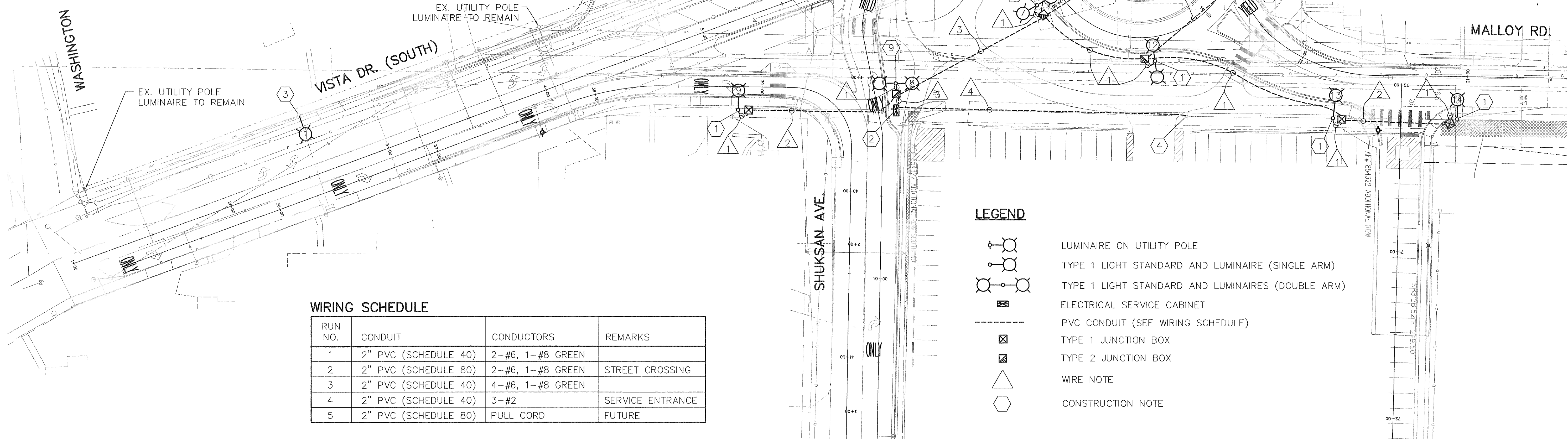
POLE SCHEDULE

POLE NO.	STREET	POLE LOCATION	POLE OFFSET	LAMP WATTAGE	H1 HEIGHT	MAST ARM(S)	CIRCUIT NO.	REMARKS
1	VISTA DR. (SOUTH)	2+57	36.5' LT.	200	30'	8'	PSE	EX. UTILITY POLE
2	VISTA DR. (SOUTH)	5+28	49' LT.	200	30'	8'	PSE	RELOCATED UTILITY POLE
3	VISTA DR. (SOUTH)	6+24.5	37.3' LT.	150	35'	8'	1	
4	FERNDALE TER.	16+81.2	14' RT.	150	35'	6'	1	
5	FERNDALE TER.	15+70	29.2' LT.	150	35'	6'	1	
6	VISTA DR. (NORTH)	30+42.6	14.2' RT.	2-150	35'	2-6'	1	
7	VISTA DR. (SOUTH)	7+19.3	13.4' RT.	2-150	35'	2-6'	1	
8	SHUKSAN AVE.	11+15.2	13.5' RT.	2-150	35'	2-6'	1	
9	SHUKSAN AVE.	38+85.9	14' RT.	150	35'	6'	1	
10	VISTA DR. (NORTH)	29+25.5	34.7' LT.	150	35'	6'	2	
11	MALLOY RD.	22+63.1	14.5' RT.	2-150	35'	2-6'	2	
12	SHUKSAN AVE.	13+64.1	14.6' RT.	2-150	35'	2-6'	2	
13	MALLOY RD.	21+74.3	28.4' LT.	150	35'	10'	2	
14	MALLOY RD.	21+06	25.6' LT.	150	35'	8'	2	

- NOTES:
1.
- ALL LUMINAIRES SHALL BE HIGH PRESSURE SODIUM TYPE WITH M-C-III DISTRIBUTION.
2.
- ALL LIGHT STANDARD BASES SHALL BE FIXED TYPE.
3.
- LIGHT STANDARDS SHALL BE ORIENTED AS SHOWN.

BREAKER SCHEDULE

CIRCUITS	BREAKER RATING	CONTACTOR	VOLTAGE
MAIN	100 AMPS		
SIGNAL	50 AMPS		120
CONTROL	15 AMPS		120
RECEPTACLE	20 AMPS		120
ILLUM. 1	40 AMPS	60 AMPS	240
ILLUM. 2	40 AMPS	60 AMPS	240



WIRING SCHEDULE

RUN NO.	CONDUIT	CONDUCTORS	REMARKS
1	2" PVC (SCHEDULE 40)	2-#6, 1-#8 GREEN	
2	2" PVC (SCHEDULE 80)	2-#6, 1-#8 GREEN	STREET CROSSING
3	2" PVC (SCHEDULE 40)	4-#6, 1-#8 GREEN	
4	2" PVC (SCHEDULE 40)	3-#2	SERVICE ENTRANCE
5	2" PVC (SCHEDULE 80)	PULL CORD	FUTURE

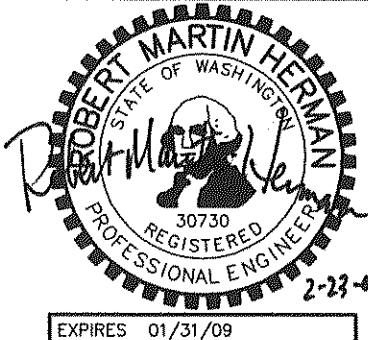
LEGEND

- 
- LUMINAIRE ON UTILITY POLE
- 
- TYPE 1 LIGHT STANDARD AND LUMINAIRE (SINGLE ARM)
- 
- TYPE 1 LIGHT STANDARD AND LUMINAIRES (DOUBLE ARM)
- 
- ELECTRICAL SERVICE CABINET
- 
- PVC CONDUIT (SEE WIRING SCHEDULE)
- 
- TYPE 1 JUNCTION BOX
- 
- TYPE 2 JUNCTION BOX
- 
- WIRE NOTE
- 
- CONSTRUCTION NOTE

DRAWN	RMH				
DESIGNED	RMH				
CHECKED	2/23/07 RMH				
PROJ. ENGR.					
DRAWING FILE	IL.DWG				
DATE		REVISION		BY	APP'D



CITY OF FERNDALE  
2095 Main Street  
Ferndale, Washington 98248



**HTE** HERMAN TRAFFIC ENGINEERING

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

VISTA DRIVE / MALLOY ROAD IMPROVEMENTS  
CITY OF FERNDALE

ILLUMINATION PLAN

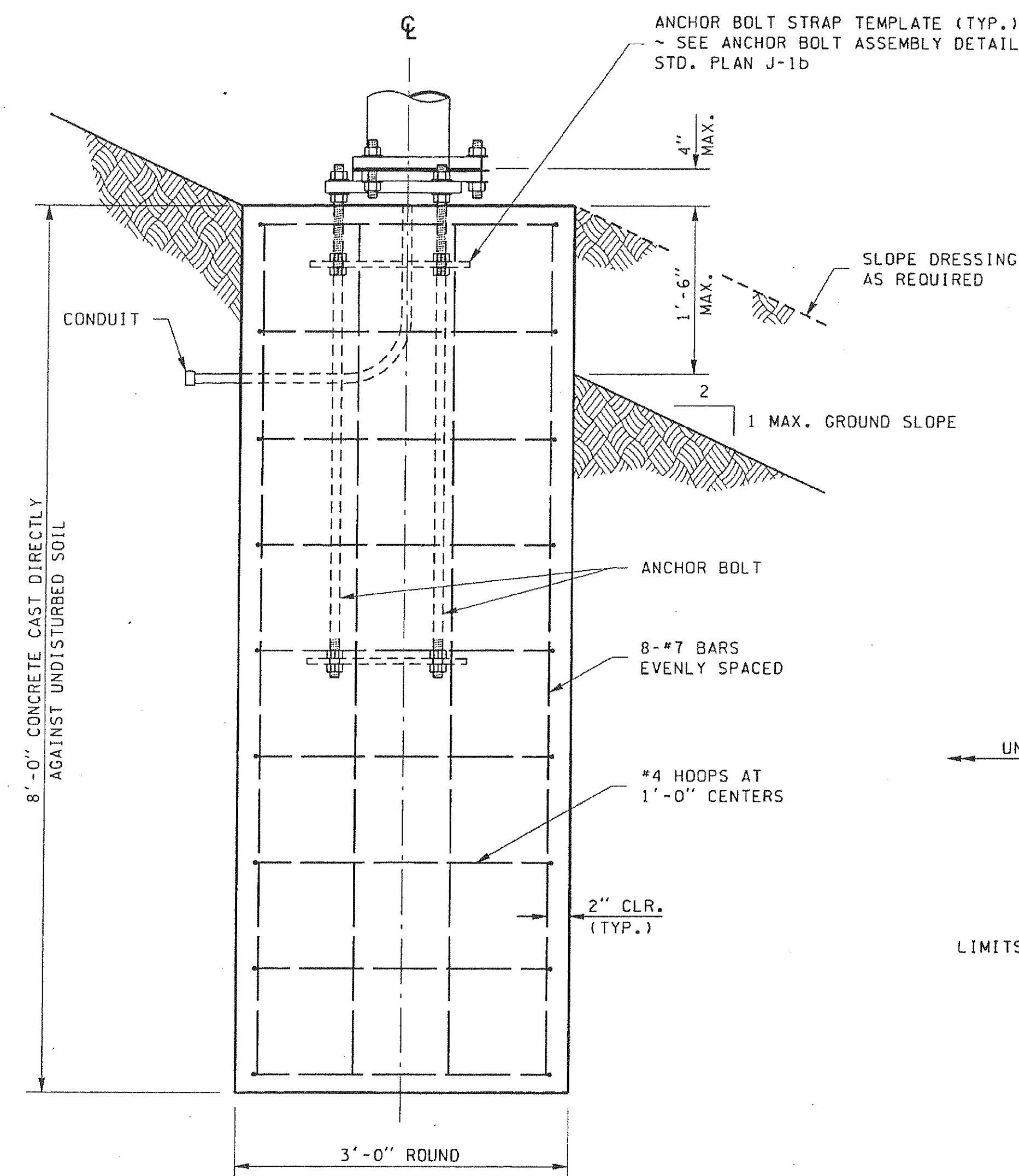
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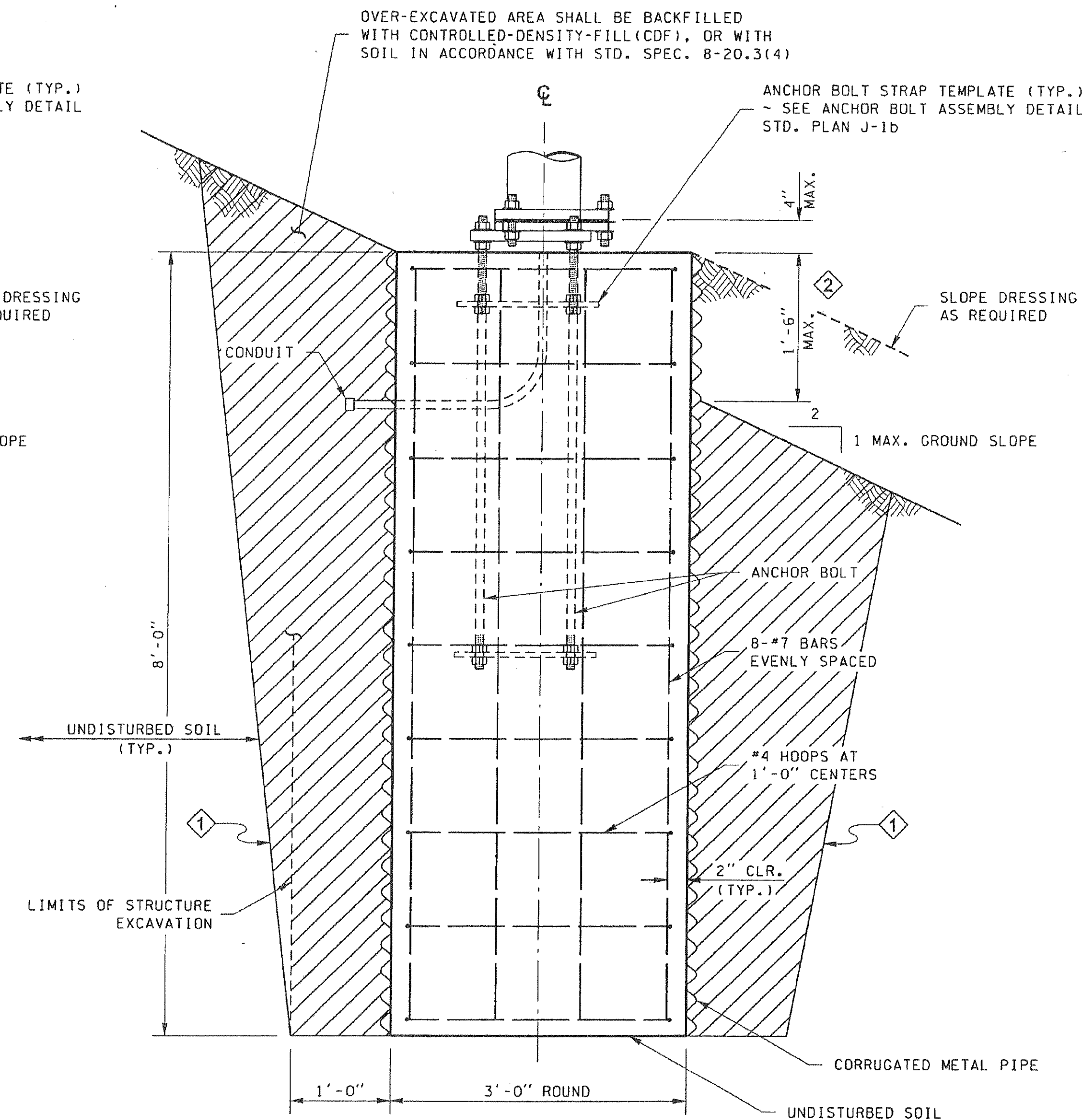
- ① TEMPORARY SLOPE OR SHORE AS REQUIRED
- ② ANY EXPOSED TOP PORTION (1'-6" MAX.) OF THE FOUNDATION SHALL BE FORMED TO CREATE A SMOOTH CONCRETE SURFACE. ALL FORMING SHALL BE REMOVED UPON COMPLETION OF FOUNDATION CONSTRUCTION.

OVER-EXCAVATED AREA SHALL BE BACKFILLED  
- WITH CONTROLLED-DENSITY-FILL(CDF), OR WITH  
SOIL IN ACCORDANCE WITH STD. SPEC. 8-20.3(4)



**FOUNDATION REINFORCEMENT DETAIL**  
CONCRETE CAST DIRECTLY AGAINST UNDISTURBED SOIL




**ALTERNATE # 1**



**FOUNDATION REINFORCEMENT AND BACKFILL DETAIL**  
CONCRETE CAST INSIDE CORRUGATED METAL PIPE STAY-IN-PLACE FORM.  
PAPER OR CARDBOARD FORM SHALL NOT BE USED BENEATH THE GROUND SURFACE. (2)

## ALTERNATE # 2

FILE NAME						LightStandardFoundationPlan												PLOT 1
TIME						\$TIME\$						REGION NO.		STATE		FED.AID PROJ.NO.		
DATE						\$\$\$DATE\$\$\$						10		WASH				
PLOTTED BY						\$\$USERNAME\$\$						JOB NUMBER						
DESIGNED BY																		
ENTERED BY																		SHEET
CHECKED BY																		OF
PROJ. ENGR.												CONTRACT NO.		LOCATION NO.				SHEETS
REGIONAL ADM.								REVISION		DATE		BY						

DRAWN RMH						 <div>CITY OF FERDALE 2095 Main Street Ferndale, Washington 98248</div>		 <div>HERMAN TRAFFIC ENGINEERING 15324 Southeast 133rd Court, Renton, Washington 98059 425-277-1740 tel. 425-277-5718 fax hte@comcast.net</div>	VISTA DRIVE / MALLOY ROAD IMPROVEMENTS CITY OF FERDALE		IL2		
DESIGNED RMH													SHEET
CHECKED 2/23/07 RMH													OF
PROJ. ENGR.													SHEETS
DRAWING FILE IL.DWG													
	DATE		REVISION		BY	APP'D			LIGHT STANDARD FOUNDATION DETAIL				