INDEX

INDEX (CONTINUED)

PLAN
REFERENCE
NO.
SHEET
OF
SHEETS

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.

FILE NAME N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_INDEX_VICINITY MAP.dgn

TIME	11:23:34 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M.GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J.KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L.ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

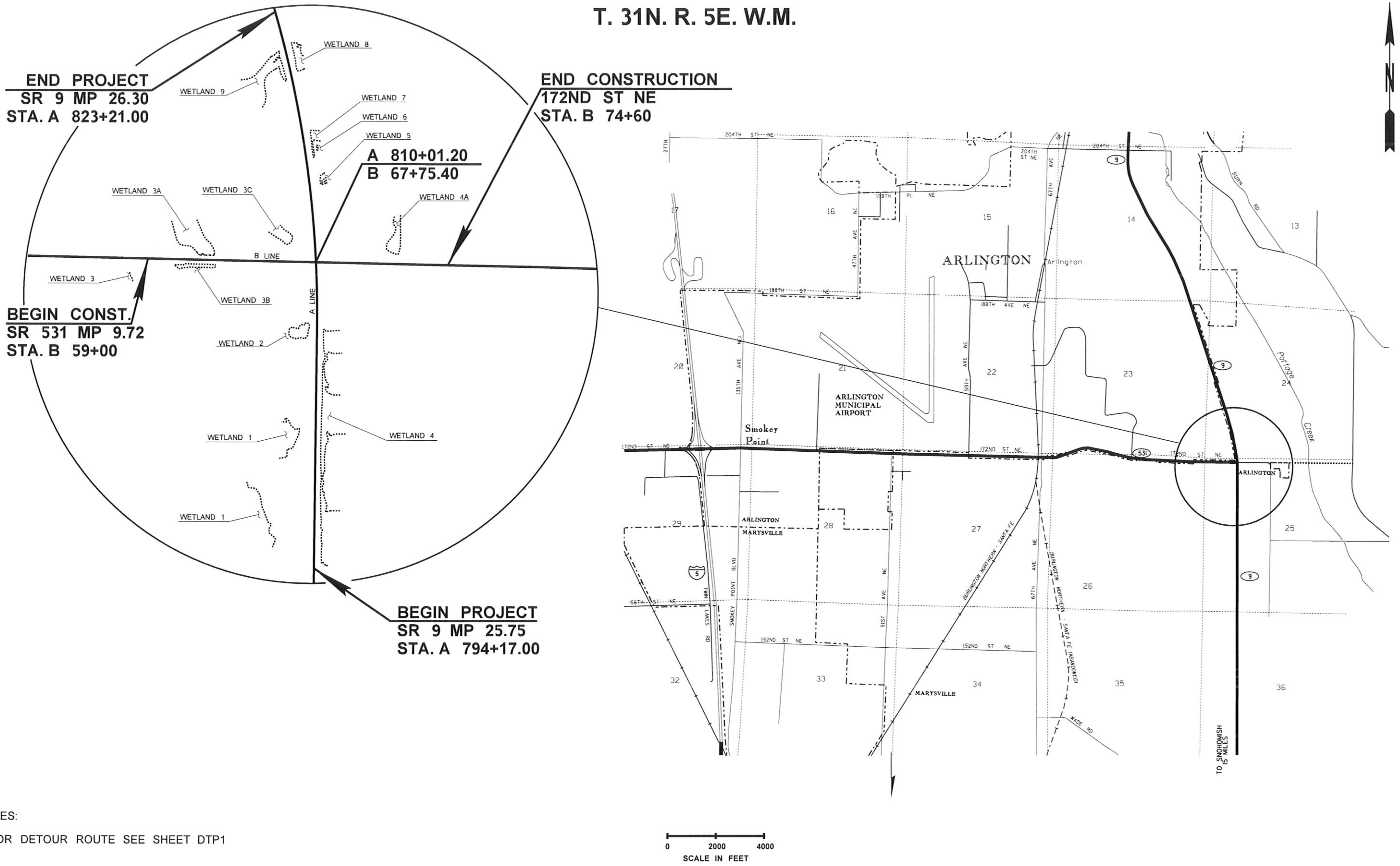
Washington State
Department of Transportation

SR9
SR 531/172ND ST. NE
INTERSECTION IMPROVEMENT

INDEX

Plot 2
PLAN REF NO
I1
SHEET
OF
SHEETS

T. 31N. R. 5E. W.M.



END PROJECT
SR 9 MP 26.30
STA. A 823+21.00

END CONSTRUCTION
172ND ST NE
STA. B 74+60

A 810+01.20
B 67+75.40

BEGIN CONST.
SR 531 MP 9.72
STA. B 59+00

BEGIN PROJECT
SR 9 MP 25.75
STA. A 794+17.00

NOTES:

1. FOR DETOUR ROUTE SEE SHEET DTP1

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_INDEX_VICINITY MAP.dgn
TIME	9:02:16 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR 531/172ND ST. NE
INTERSECTION IMPROVEMENT

VICINITY MAP

Plot 1

V1

SHEET
OF
SHEETS

DOT_RGG900

3/22/2010

SUMMARY OF QUANTITIES

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 INITIAL DEFAULT COLUMN															
						PREPARATION																
1	LUMP SUM		LUMP SUM	0001	L.S.	MOBILIZATION	L.S.															
2	6.42		6.42	0025	ACRE	CLEARING AND GRUBBING	6.42															
3	12.00		12.00	0049	EACH	REMOVING DRAINAGE STRUCTURE	12.00															
4	LUMP SUM		LUMP SUM	0050	L.S.	REMOVAL OF STRUCTURE AND OBSTRUCTION	L.S.															
5	22.00		22.00	0100	S.Y.	REMOVING CEMENT CONC. SIDEWALK	22.00															
6	700.00		700.00	0108	L.F.	REMOVING CEMENT CONC. CURB AND GUTTER	700.00															
7	300.00		300.00	0130	S.Y.	REMOVING ASPHALT CONC. SIDEWALK	300.00															
8	1500.00		1500.00	0140	L.F.	REMOVING ASPHALT CONC. CURB	1,500.00															
9	11350.00		11350.00	0187	L.F.	REMOVING PAINT LINE	11,350.00															
10	8.00		8.00	0200	EACH	REMOVING PLASTIC TRAFFIC MARKING	8.00															
11	720.00		720.00	0203	S.F.	REMOVING PAINTED CROSSWALK LINE	720.00															
12	93.00		93.00	0220	L.F.	REMOVING CHAIN LINK FENCE	93.00															
13	462.00		462.00	0230	L.F.	REMOVING WIRE FENCE	462.00															
						GRADING																
14	9500.00		9500.00	0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL	9,500.00															
15	5000.00		5000.00	0330	C.Y.	ROADWAY EXCAVATION INCL. HAUL - AREA PONDS	5,000.00															
16	13000.00		13000.00	0431	TON	GRAVEL BORROW INCL. HAUL	13,000.00															
17	20000.00		20000.00	0470	C.Y.	EMBANKMENT COMPACTION	20,000.00															
18	15000.00		15000.00		S.F.	GEOSYNTHETIC CLAY LINER	15,000.00															
						DRAINAGE																
19	4.00		4.00	0970	EACH	TAPERED END SECTION WITH TYPE 4 SAFETY BARS 24 IN. DIAM.	4.00															
20	10.00		10.00	1046	EACH	CONCRETE INLET	10.00															
21	200.00		200.00	1086	TON	QUARRY SPALLS	200.00															
22	2000.00		2000.00	1161	L.F.	UNDERDRAIN PIPE 8 IN. DIAM.	2,000.00															
23	2000.00		2000.00	1163	L.F.	UNDERDRAIN PIPE 12 IN. DIAM.	2,000.00															
24	200.00		200.00	1290	L.F.	CL. V REINF. CONC. CULV. PIPE 12 IN. DIAM.	200.00															
						STORM SEWER																
25	12.00		12.00	3091	EACH	CATCH BASIN TYPE 1	12.00															
26	12.00		12.00	3105	EACH	CATCH BASIN TYPE 2 48 IN. DIAM.	12.00															
27	5.00		5.00	3109	EACH	CATCH BASIN TYPE 2 60 IN. DIAM.	5.00															
28	8000.00		8000.00	3151	L.F.	TESTING STORM SEWER PIPE	8,000.00															
29	4000.00		4000.00	3541	L.F.	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	4,000.00															
30	500.00		500.00	3542	L.F.	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	500.00															
31	500.00		500.00	3544	L.F.	SCHEDULE A STORM SEWER PIPE 30 IN. DIAM.	500.00															
32	500.00		500.00	3545	L.F.	SCHEDULE A STORM SEWER PIPE 36 IN. DIAM.	500.00															
						SURFACING																
33	7000.00		7000.00	5100	TON	CRUSHED SURFACING BASE COURSE	7,000.00															
						LIQUID ASPHALT																
34	6500.00		6500.00	5334	DOL	ANTI-STRIPPING ADDITIVE	6,500.00															
						CEMENT CONCRETE PAVEMENT																
35	2260.00		2260.00	5625	C.Y.	CEMENT CONC. PAVEMENT	2,260.00															

GROUP LEGEND :

GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
1			**	

DATE	REVISION	BY

REGION	STATE	FEDERAL AID PROJECT NO.
10	WA	

JOB NUMBER
XL3325/1

CONTRACT NO
000000

Washington State
Department of Transportation

SUMMARY OF QUANTITIES

SQ1
SHEET
OF
SHEETS

DOT_RGG900

3/22/2010

SUMMARY OF QUANTITIES

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 INITIAL DEFAULT COLUMN															
36	-1.00		-1.00	5638	DOL	PORTLAND CEMENT CONC. COMPLIANCE ADJUSTMENT	-1.00															
37	3000.00		3000.00	5685	EACH	CORROSION RESISTANT DOWEL BAR	3,000.00															
						HOT MIX ASPHALT																
38	3790.00		3790.00	5711	S.Y.	PLANING BITUMINOUS PAVEMENT	3,790.00															
39	6500.00		6500.00	5767	TON	HMA CL. 1/2 IN. PG BASE	6,500.00															
40	300.00		300.00	5767	TON	HMA CL. 1/2 IN. PG DRIVEWAY	300.00															
41	16400.00		16400.00	5830	DOL	JOB MIX COMPLIANCE PRICE ADJUSTMENT	16,400.00															
42	10900.00		10900.00	5835	DOL	COMPACTION PRICE ADJUSTMENT	10,900.00															
43	121600.00		121600.00	5837	DOL	ASPHALT COST PRICE ADJUSTMENT	121,600.00															
						EROSION CNTL AND ROADSIDE RESTORATION																
44	128.00		128.00	6403	DAY	ESC LEAD	128.00															
45	3820.00		3820.00	6373	L.F.	SILT FENCE	3,820.00															
46	1000.00		1000.00	6374	L.F.	COMPOST BERM	1,000.00															
47	6.00		6.00	6414	ACRE	SEEDING, FERTILIZING, AND MULCHING	6.00															
48	160.00		160.00	6463	L.F.	CHECK DAM	160.00															
49	500.00		500.00	6468	S.Y.	STABILIZED CONSTRUCTION ENTRANCE	500.00															
50	14.00		14.00	6471	EACH	INLET PROTECTION	14.00															
51	100000.00		100000.00	6490	DOL	EROSION/WATER POLLUTION CONTROL	100,000.00															
52	3480.00		3480.00	6630	L.F.	HIGH VISIBILITY FENCE	3,480.00															
53	1000.00		1000.00			ECOLOGY MIX	1,000.00															
54	1.00		1.00	6552	EACH	PSIPE - ALL PLANTING	1.00															
55	1.00		1.00	6606	DOL	PLANT ESTABLISHMENT - SECOND YEAR	1.00															
56	1.00		1.00	6608	DOL	PLANT ESTABLISHMENT - THIRD YEAR	1.00															
						TRAFFIC																
57	980.00		980.00	6700	L.F.	CEMENT CONC. TRAFFIC CURB AND GUTTER	980.00															
58	333.00		333.00		L.F.	MOUNTABLE CURB & GUTTER 2 IN	333.00															
59	2764.00		2764.00		L.F.	MOUNTABLE CURB & GUTTER 4 IN	2,764.00															
60	271.00		271.00		L.F.	CENTRAL ISLAND CURB & GUTTER	271.00															
61	128.00		128.00	6707	L.F.	CEMENT CONC. PEDESTRIAN CURB	128.00															
62	176.00		176.00	6727	L.F.	EXTRUDED CURB	176.00															
63	3000.00		3000.00	6781	L.F.	TEMPORARY CONC. BARRIER	3,000.00															
64	10210.00		10210.00	6806	L.F.	PAINT LINE	10,210.00															
65	5960.00		5960.00	6807	L.F.	PLASTIC LINE	5,960.00															
66	2520.00		2520.00	6818	L.F.	PLASTIC WIDE LINE	2,520.00															
67	1970.00		1970.00	6857	S.F.	PLASTIC CROSSWALK LINE	1,970.00															
68	28.00		28.00	6833	EACH	PLASTIC TRAFFIC ARROW	28.00															
69	87.00		87.00	6871	EACH	PLASTIC TRAFFIC LETTER	87.00															
70	61.00		61.00	9238	EACH	PLASTIC YIELD LINE SYMBOL	61.00															
71	0.50		0.50	6884	HUND	RAISED PAVEMENT MARKER TYPE 2	0.50															
72	15000.00		15000.00	6888	L.F.	TEMPORARY PAVEMENT MARKING	15,000.00															
73	LUMP SUM		LUMP SUM	6890	L.S.	PERMANENT SIGNING	L.S.															
74	LUMP SUM		LUMP SUM	6904	L.S.	ILLUMINATION SYSTEM	L.S.															
75	LUMP SUM		LUMP SUM	6974	L.S.	TRAFFIC CONTROL SUPERVISOR	L.S.															
76	400.00		400.00	6982	S.F.	CONSTRUCTION SIGNS CLASS A	400.00															
77	4000.00		4000.00	6992	HOUR	OTHER TRAFFIC CONTROL LABOR	4,000.00															
78	10000.00		10000.00	6993	HOUR	PORTABLE CHANGEABLE MESSAGE SIGN	10,000.00															

GROUP LEGEND :

GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
1			**	

DATE	REVISION	BY

REGION	STATE	FEDERAL AID PROJECT. NO.
10	WA	

JOB NUMBER
XL3325/1

CONTRACT NO
000000

Washington State
Department of Transportation

SUMMARY OF QUANTITIES

SQ2

SHEET

OF

SHEETS

DOT_RGG900

3/22/2010

SUMMARY OF QUANTITIES

ITEM NO	TOTAL QUANTITY	SUB-TOTAL * SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1 INITIAL DEFAULT COLUMN															
79	2.00		2.00	7440	EACH	TEMPORARY IMPACT ATTENUATOR	2.00															
80	2.00		2.00	7447	EACH	TRANSPORTABLE ATTENUATOR(S)	2.00															
81	50.00		50.00	7449	HOUR	OPERATION OF TRANSPORTABLE ATTENUATOR(S)	50.00															
82	1.00		1.00	7450	DOL	REPAIR TRANSPORTABLE ATTENUATOR(S)	1.00															
83	LUMP SUM		LUMP SUM	6973	L.S.	OTHER TEMPORARY TRAFFIC CONTROL	L.S.															
84	4000.00		4000.00	6980	HOUR	FLAGGERS AND SPOTTERS	4,000.00															
85	750.00		750.00		S.Y.	SPLITTER ISLAND	750.00															
						OTHER ITEMS																
86	LUMP SUM		LUMP SUM	7003	L.S.	TYPE B PROGRESS SCHEDULE	L.S.															
87	500.00		500.00	7006	C.Y.	STRUCTURE EXCAVATION CLASS B INCL. HAUL	500.00															
88	2500.00		2500.00	7008	S.F.	SHORING OR EXTRA EXCAVATION CLASS B	2,500.00															
89	300.00		300.00	7014	C.Y.	GRAVEL BACKFILL FOR DRAIN	300.00															
90	25.00		25.00	7029	EACH	PLUGGING EXISTING PIPE	25.00															
91	LUMP SUM		LUMP SUM	7038	L.S.	ROADWAY SURVEYING	L.S.															
92	2.00		2.00	7045	EACH	MONUMENT CASE AND COVER	2.00															
93	1100.00		1100.00	7055	S.Y.	CEMENT CONC. SIDEWALK	1,100.00															
94	157.00		157.00	7059	S.Y.	CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 - MOD	157.00															
95	8.00		8.00	7058	EACH	CEMENT CONC. CURB RAMP TYPE 3A	8.00															
96	3.00		3.00		EACH	CEMENT CONC. RAMP	3.00															
97	1000.00		1000.00	7085	L.F.	COATED CHAIN LINK FENCE TYPE 3	1,000.00															
98	23.00		23.00	7097	EACH	END, GATE, CORNER, AND PULL POST FOR CHAIN LINK FENCE	23.00															
99	23.00		23.00	7097	EACH	END, GATE, CORNER, AND PULL POST FOR CHAIN LINK FENCE	23.00															
100	3827.00		3827.00	7111	L.F.	WIRE FENCE TYPE 2	3,827.00															
101	4.00		4.00	7345	EACH	ABANDON EXISTING MANHOLE	4.00															
102	1.00		1.00	7480	DOL	ROADSIDE CLEANUP	1.00															
103	LUMP SUM		LUMP SUM	7490	L.S.	TRIMMING AND CLEANUP	L.S.															
104	2000.00		2000.00	7535	S.Y.	CONSTRUCTION GEOTEXTILE FOR DITCH LINING	2,000.00															
105	2.00		2.00	7562	EACH	MAILBOX SUPPORT TYPE	2.00															
106	LUMP SUM		LUMP SUM	7736	L.S.	SPCC PLAN	L.S.															
107	1.00		1.00			FORCE ACCOUNT DEWATERING	1.00															
108	LUMP SUM		LUMP SUM		L.S.	MISC. STORMWATER SYSTEM	L.S.															
109	LUMP SUM		LUMP SUM		L.S.	TEMPORARY SIGNALIZATION AND ILLUMINATION SYSTEM	L.S.															

GROUP LEGEND :

GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
1			**	

DATE	REVISION	BY

REGION	STATE	FEDERAL AID PROJECT. NO.
10	WA	

JOB NUMBER
XL3325/1

CONTRACT NO
000000

Washington State
Department of Transportation

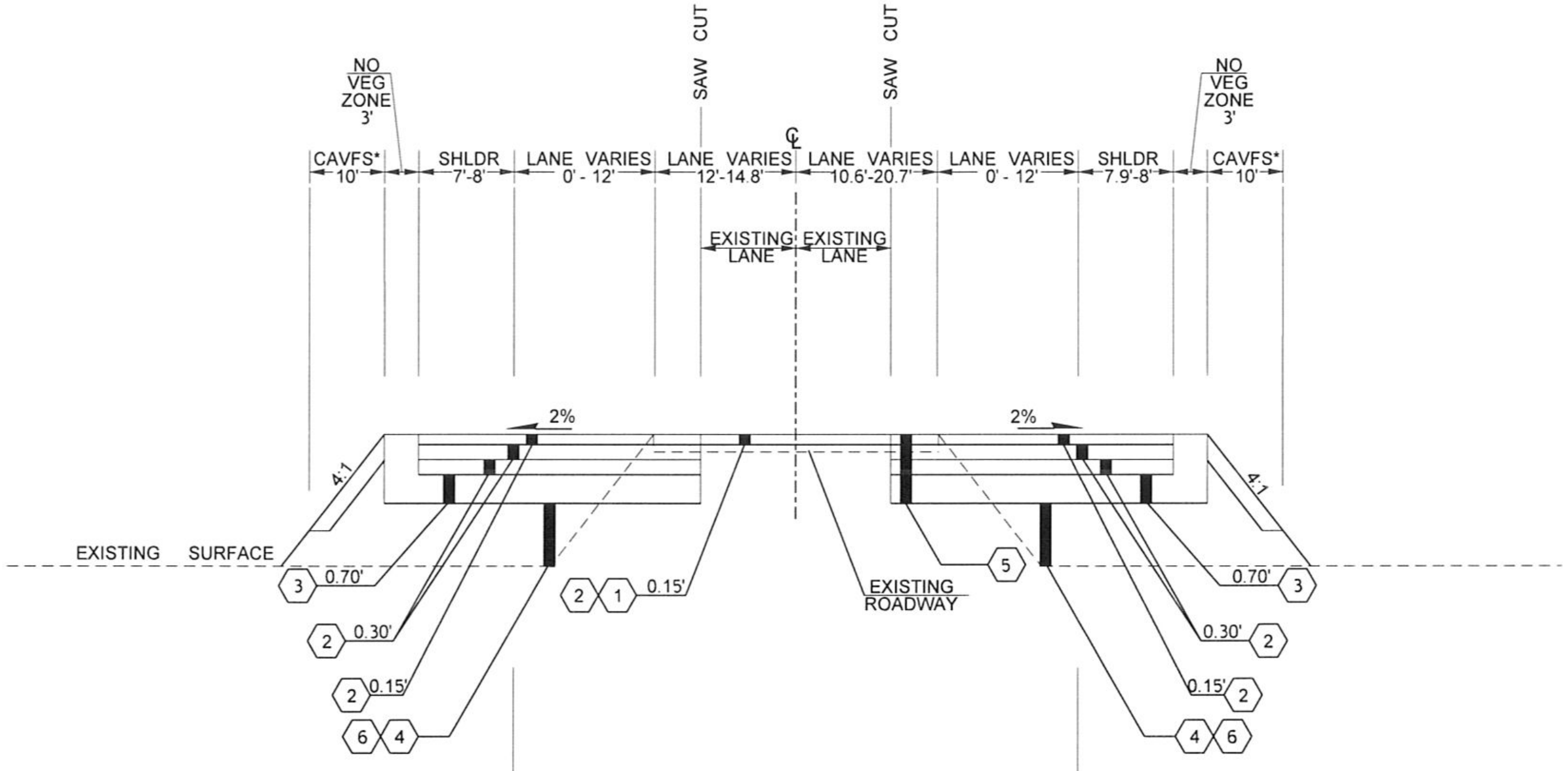
SUMMARY OF QUANTITIES

SQ3
SHEET
OF
SHEETS

LEGEND

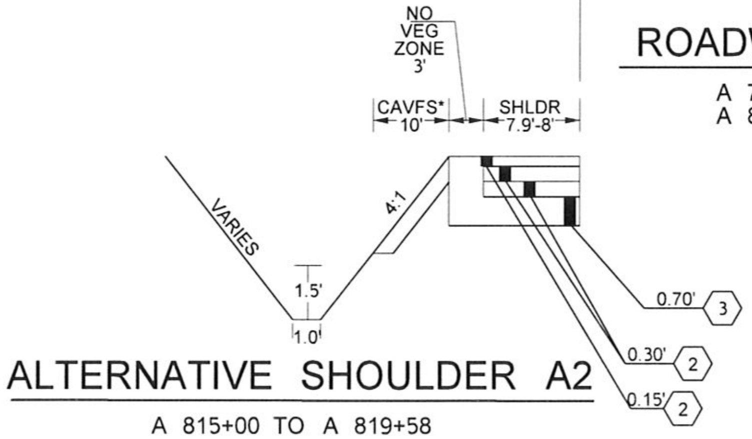
1	PLANING BITUMINOUS PAVEMENT
2	HMA CL.½ IN. PG
3	CRUSHED SURFACING BASE COURSE
4	SELECT BORROW
5	ROADWAY EXCAVATION INCL. HAUL
6	EMBANKMENT COMPACTION
7	PIGMENTED SPLITTER ISLAND
8	MOUNTABLE CURB AND GUTTER 4 IN.
9	CEMENT CONC. PAVEMENT
10	CEMENT CONC. CURB AND GUTTER
11	CEMENT CONC. SIDEWALK
12	MOUNTABLE CURB AND GUTTER 2 IN.
13	CENTRAL ISLAND CURB AND GUTTER
14	PIGMENTED TRUCK APRON

* COMPOST AMENDED VEGETATED FILTER STRIPS (CAVFS)



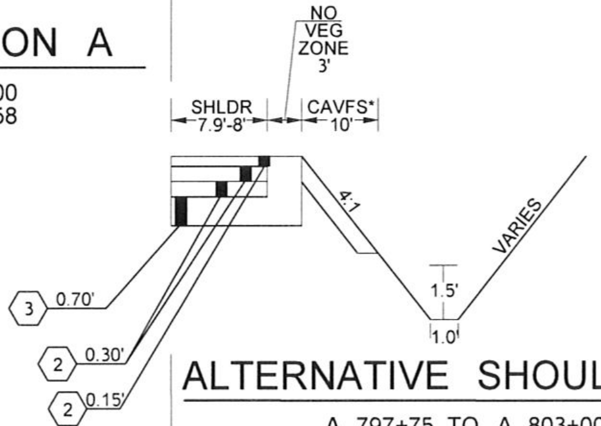
ROADWAY SECTION A

A 795+78 TO A 803+00
A 815+00 TO A 819+58



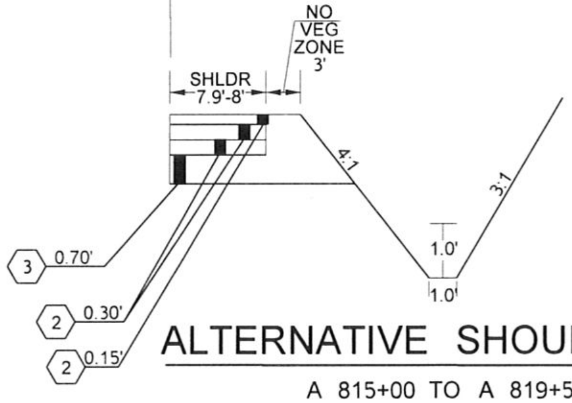
ALTERNATIVE SHOULDER A2

A 815+00 TO A 819+58



ALTERNATIVE SHOULDER A1

A 797+75 TO A 803+00



ALTERNATIVE SHOULDER A3

A 815+00 TO A 819+58

GENERAL NOTE:

1. ALL DEPTH SHOWN ARE FINAL COMPACTED DEPTHS AND SHALL CONFORM TO SECTIONS 2-03.3(14)C, 4-04.3(4) AND 5-04.3(9) OF THE STANDARD SPECIFICATIONS.
2. REFER TO PAVING PLANS FOR VARIABLE PAVING WIDTHS.
3. REFER TO ROADWAY PROFILES FOR SUPERELEVATION INFO.
4. REFER TO ROADSIDE RESTORATION PLANS FOR CAVFS SOIL AMENDMENT DETAIL.
5. REFER TO PAVING DETAIL SHEETS FOR ROUNDABOUT CURB INFO.
6. REFER TO DRAINAGE DETAIL DD1, FOR CAVFS WIDTH AND DEPTH.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_RS.dgn
TIME	9:48:52 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION | DATE | BY

REGION NO. 10 STATE WASH FED.AID PROJ.NO.

JOB NUMBER

CONTRACT NO. LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

ROADWAY SECTIONS

Plot 1
PLAN REF NO
RS1
SHEET
OF
SHEETS

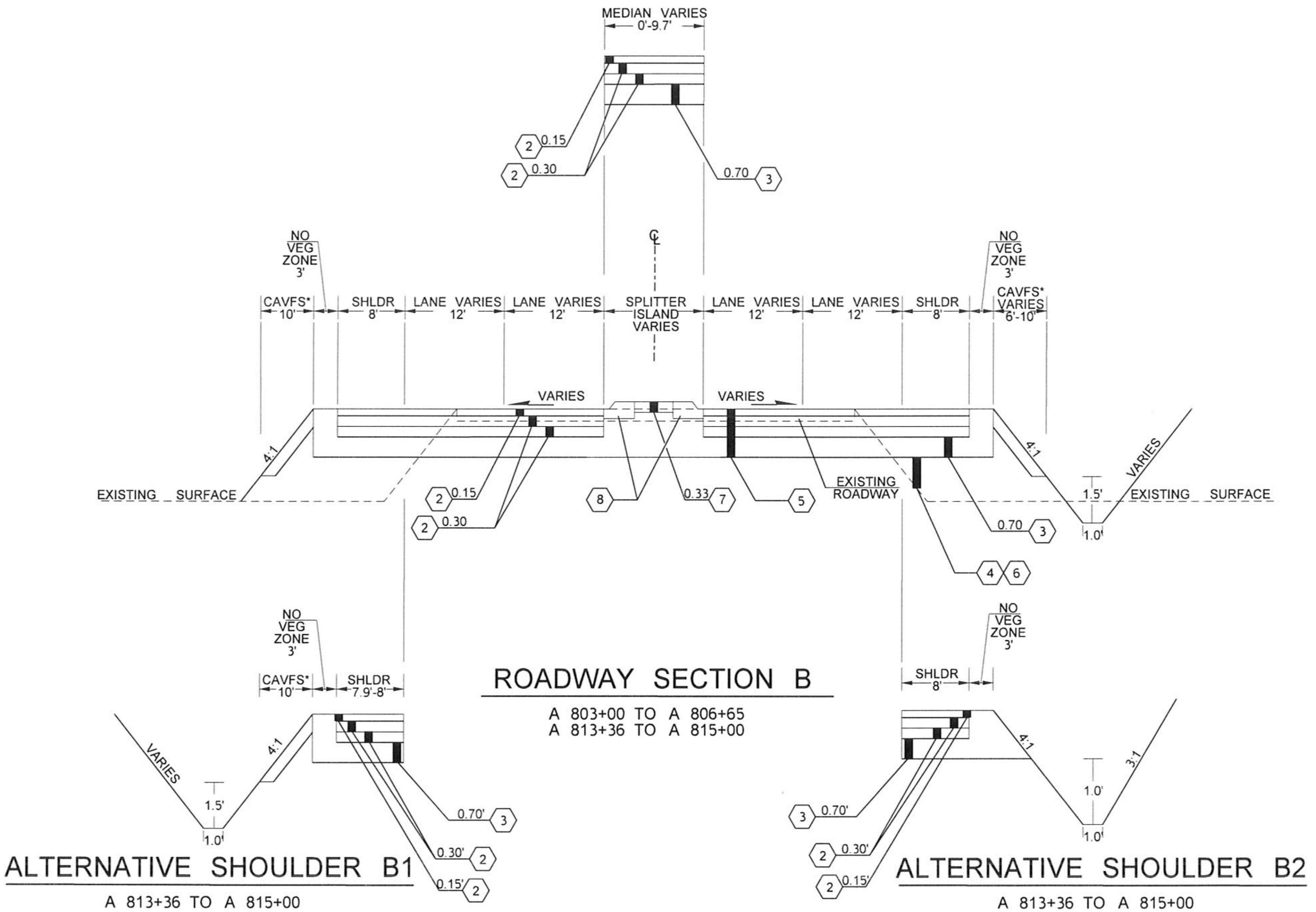
LEGEND

1	PLANING BITUMINOUS PAVEMENT
2	HMA CL.½ IN. PG
3	CRUSHED SURFACING BASE COURSE
4	SELECT BORROW
5	ROADWAY EXCAVATION INCL. HAUL
6	EMBANKMENT COMPACTION
7	PIGMENTED SPLITTER ISLAND
8	MOUNTABLE CURB AND GUTTER 4 IN.
9	CEMENT CONC. PAVEMENT
10	CEMENT CONC. CURB AND GUTTER
11	CEMENT CONC. SIDEWALK
12	MOUNTABLE CURB AND GUTTER 2 IN.
13	CENTRAL ISLAND CURB AND GUTTER
14	PIGMENTED TRUCK APRON

* COMPOST AMENDED VEGETATED FILTER STRIPS (CAVFS)

ALTERNATIVE MEDIAN 1

A 803+00 TO A 805+34
A 814+67 TO A 815+00



ROADWAY SECTION B

A 803+00 TO A 806+65
A 813+36 TO A 815+00

ALTERNATIVE SHOULDER B1

A 813+36 TO A 815+00

ALTERNATIVE SHOULDER B2

A 813+36 TO A 815+00

GENERAL NOTE:

1. ALL DEPTH SHOWN ARE FINAL COMPACTED DEPTHS AND SHALL CONFORM TO SECTIONS 2-03.3(14)C, 4-04.3(4) AND 5-04.3(9) OF THE STANDARD SPECIFICATIONS.
2. REFER TO PAVING PLANS FOR VARIABLE PAVING WIDTHS.
3. REFER TO ROADWAY PROFILES FOR SUPERELEVATION INFO.
4. REFER TO ROADSIDE RESTORATION PLANS FOR CAVFS SOIL AMENDMENT DETAIL.
5. REFER TO PAVING DETAIL SHEETS FOR ROUNDABOUT CURB INFO.
6. REFER TO DRAINAGE DETAIL DD1, FOR CAVFS WIDTH AND DEPTH.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_RS.dgn			
TIME	9:48:53 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M.GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J.KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L.ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

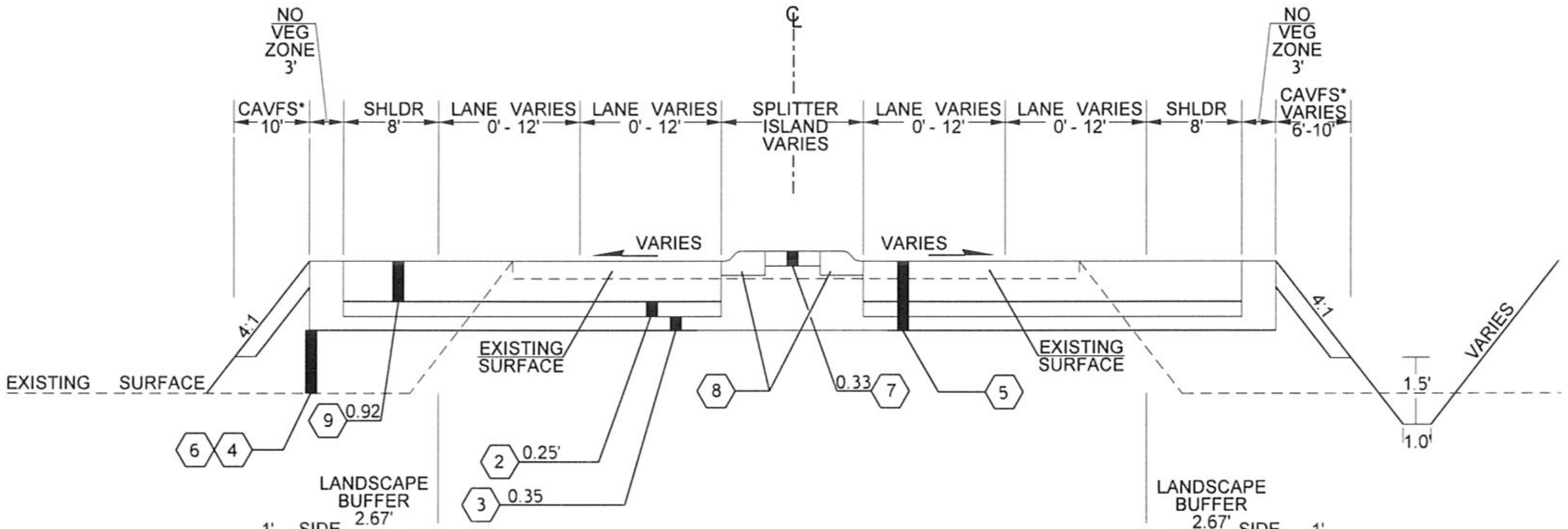
ROADWAY SECTIONS

Plot 2
PLAN REF NO
RS2
SHEET
OF
SHEETS

LEGEND

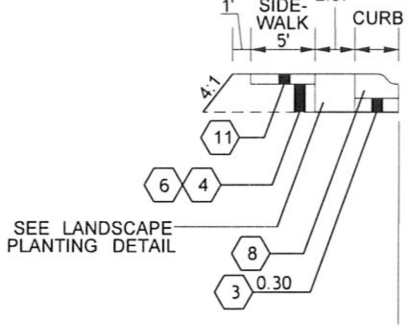
1	PLANING BITUMINOUS PAVEMENT
2	HMA CL.½ IN. PG
3	CRUSHED SURFACING BASE COURSE
4	SELECT BORROW
5	ROADWAY EXCAVATION INCL. HAUL
6	EMBANKMENT COMPACTION
7	PIGMENTED SPLITTER ISLAND
8	MOUNTABLE CURB AND GUTTER 4 IN.
9	CEMENT CONC. PAVEMENT
10	CEMENT CONC. CURB AND GUTTER
11	CEMENT CONC. SIDEWALK
12	MOUNTABLE CURB AND GUTTER 2 IN.
13	CENTRAL ISLAND CURB AND GUTTER
14	PIGMENTED TRUCK APRON

* COMPOST AMENDED VEGETATED FILTER STRIPS (CAVFS)



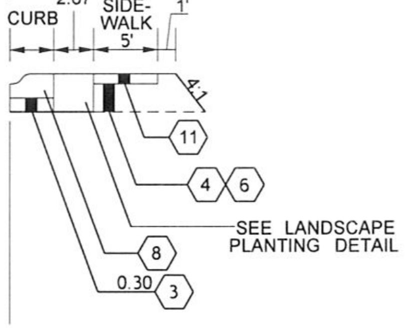
ROADWAY SECTION C

A 806+65 TO A 809+15
A 810+87 TO A 813+36
B 66+24 TO B 66+90
B 68+61 TO B 69+57



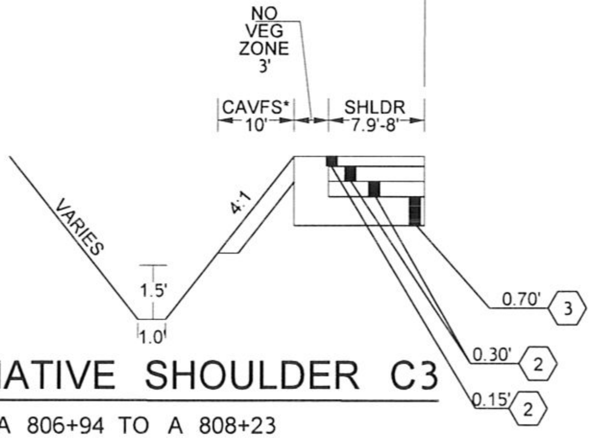
ALTERNATIVE SHOULDER C1

A 808+26 TO A 806+94
A 810+87 TO A 811+84
B 66+24 TO B 66+90
B 68+61 TO B 69+57



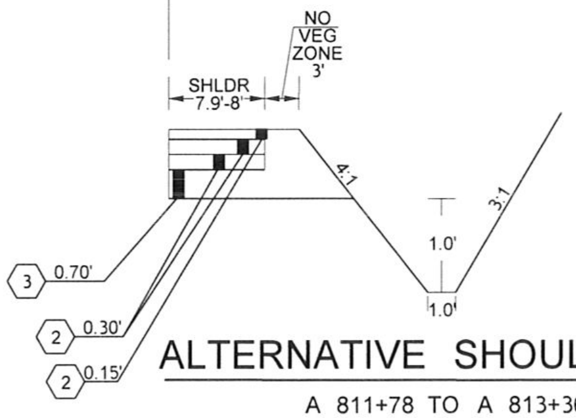
ALTERNATIVE SHOULDER C2

A 808+23 TO A 809+15
A 810+87 TO A 811+78
B 66+24 TO B 66+90
B 68+61 TO B 69+57



ALTERNATIVE SHOULDER C3

A 806+94 TO A 808+23



ALTERNATIVE SHOULDER C4

A 811+78 TO A 813+36

GENERAL NOTE:

1. ALL DEPTH SHOWN ARE FINAL COMPACTED DEPTHS AND SHALL CONFORM TO SECTIONS 2-03.3(14)C, 4-04.3(4) AND 5-04.3(9) OF THE STANDARD SPECIFICATIONS.
2. REFER TO PAVING PLANS FOR VARIABLE PAVING WIDTHS.
3. REFER TO ROADWAY PROFILES FOR SUPERELEVATION INFO.
4. REFER TO ROADSIDE RESTORATION PLANS FOR CAVFS SOIL AMENDMENT DETAIL.
5. REFER TO PAVING DETAIL SHEETS FOR ROUNDABOUT CURB INFO.
6. REFER TO DRAINAGE DETAIL DD1, FOR CAVFS WIDTH AND DEPTH.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_RS.dgn
TIME	9:48:54 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION DATE BY

REGION NO. 10
STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

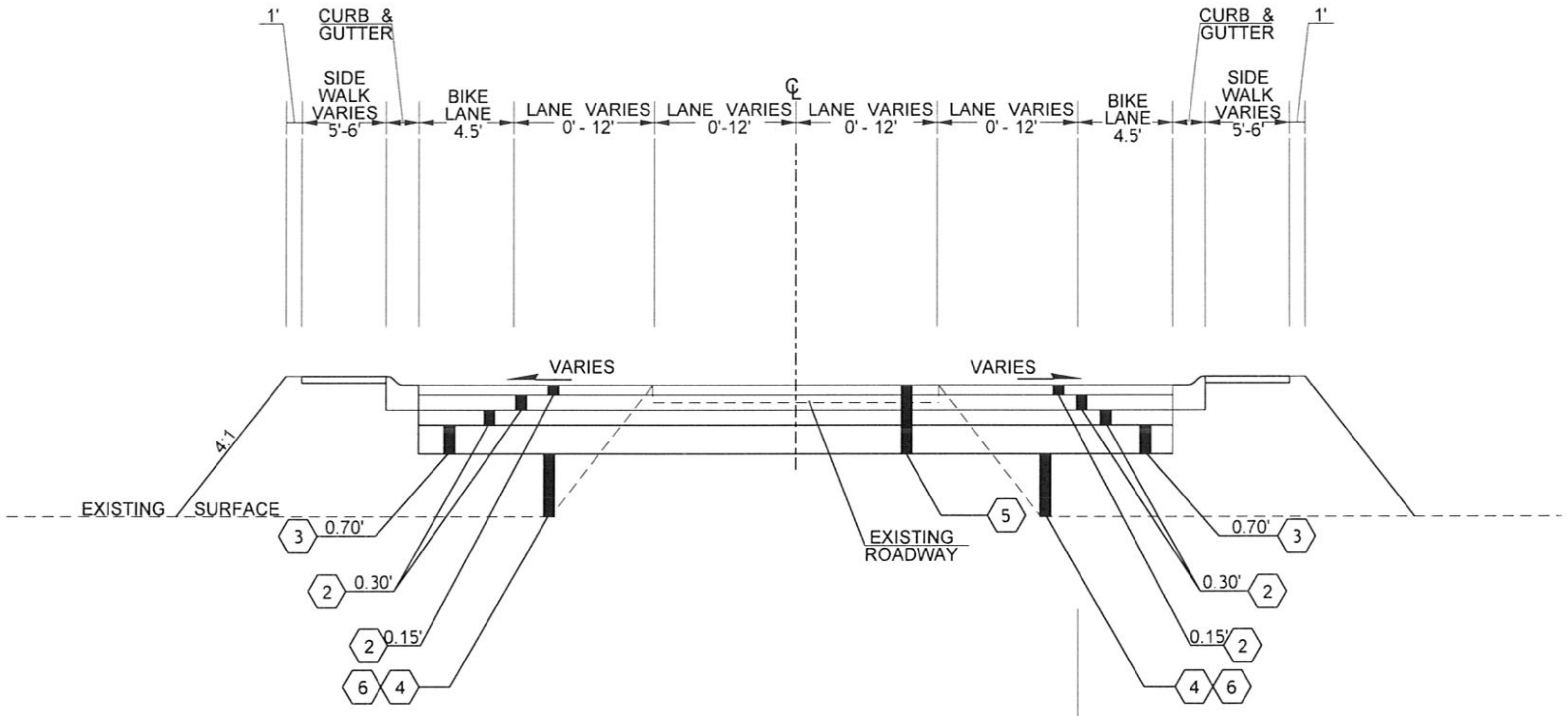
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

ROADWAY SECTIONS

Plot 3
PLAN REF NO
RS3
SHEET
OF
SHEETS

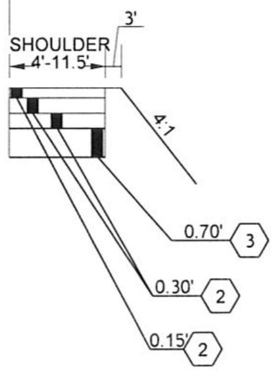
LEGEND

1	PLANING BITUMINOUS PAVEMENT
2	HMA CL.½ IN. PG
3	CRUSHED SURFACING BASE COURSE
4	SELECT BORROW
5	ROADWAY EXCAVATION INCL. HAUL
6	EMBANKMENT COMPACTION
7	PIGMENTED SPLITTER ISLAND
8	MOUNTABLE CURB AND GUTTER 4 IN.
9	CEMENT CONC. PAVEMENT
10	CEMENT CONC. CURB AND GUTTER
11	CEMENT CONC. SIDEWALK
12	MOUNTABLE CURB AND GUTTER 2 IN.
13	CENTRAL ISLAND CURB AND GUTTER
14	PIGMENTED TRUCK APRON
*	COMPOST AMENDED VEGETATED FILTER STRIPS (CAVFS)



ROADWAY SECTION D

B 59+53 TO B 66+24



ALTERNATIVE SHOULDER D1

B 59+53 TO B 61+64

GENERAL NOTE:

1. ALL DEPTH SHOWN ARE FINAL COMPACTED DEPTHS AND SHALL CONFORM TO SECTIONS 2-03.3(14)C, 4-04.3(4) AND 5-04.3(9) OF THE STANDARD SPECIFICATIONS.

2. REFER TO PAVING PLANS FOR VARIABLE PAVING WIDTHS.

3. REFER TO ROADWAY PROFILES FOR SUPERELEVATION INFO.

4. REFER TO ROADSIDE RESTORATION PLANS FOR CAVFS SOIL AMENDMENT DETAIL.

5. REFER TO PAVING DETAIL SHEETS FOR ROUNDABOUT CURB INFO.

6. REFER TO DRAINAGE DETAIL DD1, FOR CAVFS WIDTH AND DEPTH.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_RS.dgn
TIME	9:48:55 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

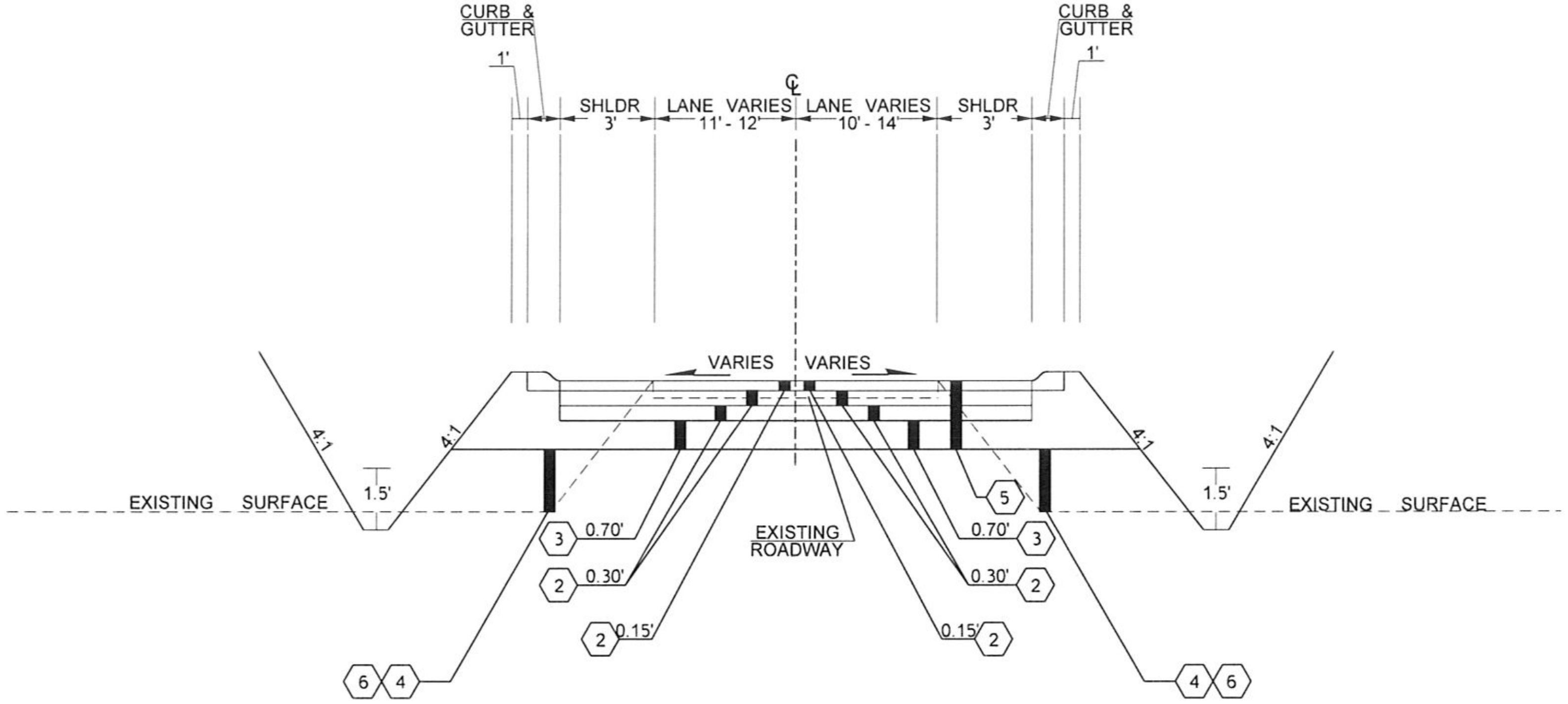
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

ROADWAY SECTIONS

Plot 4
PLAN REF NO
RS
SHEET
OF
SHEETS

LEGEND

1	PLANING BITUMINOUS PAVEMENT
2	HMA CL.½ IN. PG
3	CRUSHED SURFACING BASE COURSE
4	SELECT BORROW
5	ROADWAY EXCAVATION INCL. HAUL
6	EMBANKMENT COMPACTION
7	PIGMENTED SPLITTER ISLAND
8	MOUNTABLE CURB AND GUTTER 4 IN.
9	CEMENT CONC. PAVEMENT
10	CEMENT CONC. CURB AND GUTTER
11	CEMENT CONC. SIDEWALK
12	MOUNTABLE CURB AND GUTTER 2 IN.
13	CENTRAL ISLAND CURB AND GUTTER
14	PIGMENTED TRUCK APRON
*	COMPOST AMENDED VEGETATED FILTER STRIPS (CAVFS)



ROADWAY SECTION E

B 69+57 TO B 73+00

GENERAL NOTE:

1. ALL DEPTH SHOWN ARE FINAL COMPACTED DEPTHS AND SHALL CONFORM TO SECTIONS 2-03.3(14)C, 4-04.3(4) AND 5-04.3(9) OF THE STANDARD SPECIFICATIONS.

2. REFER TO PAVING PLANS FOR VARIABLE PAVING WIDTHS.

3. REFER TO ROADWAY PROFILES FOR SUPERELEVATION INFO.

4. REFER TO ROADSIDE RESTORATION PLANS FOR CAVFS SOIL AMENDMENT DETAIL.

5. REFER TO PAVING DETAIL SHEETS FOR ROUNDABOUT CURB INFO.

6. REFER TO DRAINAGE DETAIL DD1, FOR CAVFS WIDTH AND DEPTH.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_RS.dgn			
TIME	9:48:56 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M.GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J.KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L.ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

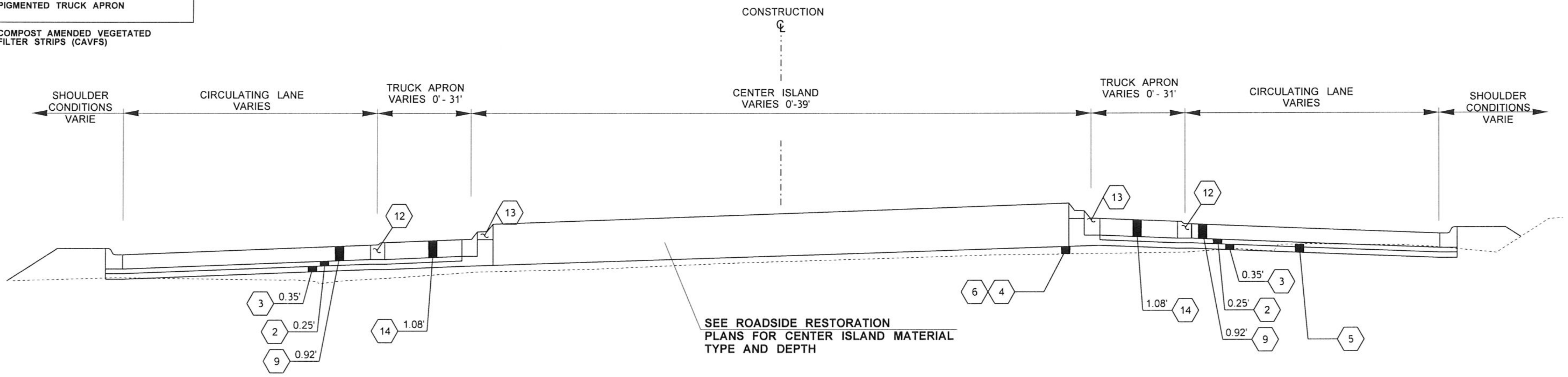
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

ROADWAY SECTIONS

Plot 5
PLAN REF NO
RS5
SHEET
OF
SHEETS

LEGEND

1	PLANING BITUMINOUS PAVEMENT
2	HMA CL.½ IN. PG
3	CRUSHED SURFACING BASE COURSE
4	SELECT BORROW
5	ROADWAY EXCAVATION INCL. HAUL
6	EMBANKMENT COMPACTION
7	PIGMENTED SPLITTER ISLAND
8	MOUNTABLE CURB AND GUTTER 4 IN.
9	CEMENT CONC. PAVEMENT
10	CEMENT CONC. CURB AND GUTTER
11	CEMENT CONC. SIDEWALK
12	MOUNTABLE CURB AND GUTTER 2 IN.
13	CENTRAL ISLAND CURB AND GUTTER
14	PIGMENTED TRUCK APRON
*	COMPOST AMENDED VEGETATED FILTER STRIPS (CAVFS)



ROUNDABOUT SECTION F

A 809+15 TO A 810+87
B 66+90 TO B 68+61

GENERAL NOTE:

1. ALL DEPTH SHOWN ARE FINAL COMPACTED DEPTHS AND SHALL CONFORM TO SECTIONS 2-03.3(14)C, 4-04.3(4) AND 5-04.3(9) OF THE STANDARD SPECIFICATIONS.
2. REFER TO PAVING PLANS FOR VARIABLE PAVING WIDTHS.
3. REFER TO ROADWAY PROFILES FOR SUPERELEVATION INFO.
4. REFER TO ROADSIDE RESTORATION PLANS FOR CAVFS SOIL AMENDMENT DETAIL.
5. REFER TO PAVING DETAIL SHEETS FOR ROUNDABOUT CURB INFO.
6. REFER TO DRAINAGE DETAIL DD1, FOR CAVFS WIDTH AND DEPTH.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_RS.dgn
TIME	9:48:57 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

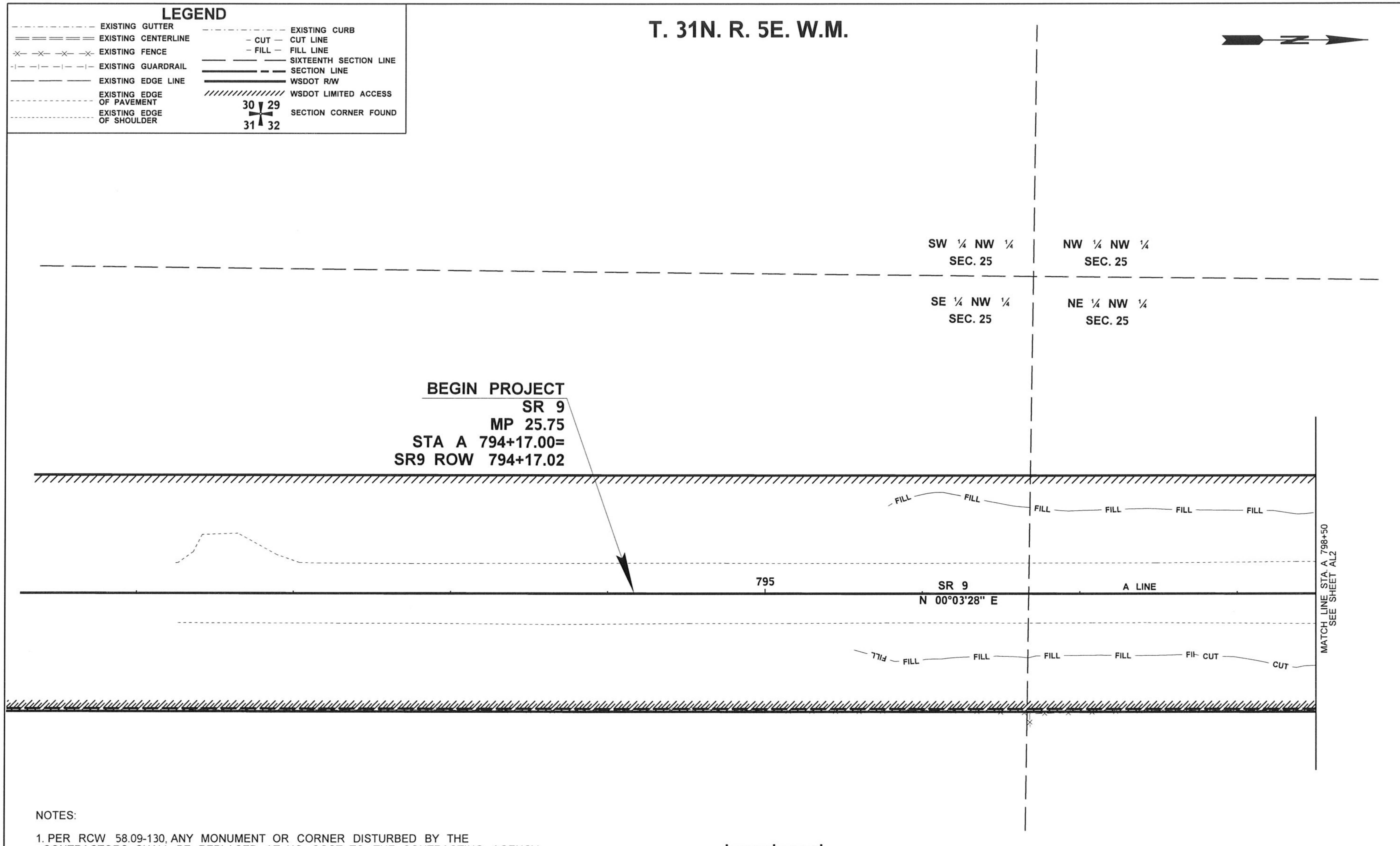
ROADWAY SECTIONS

Plot 6
PLAN REF NO
RS6
SHEET
OF
SHEETS

LEGEND

- EXISTING GUTTER
- EXISTING CENTERLINE
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING EDGE LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF SHOULDER
- EXISTING CURB
- CUT LINE
- FILL LINE
- SIXTEENTH SECTION LINE
- SECTION LINE
- WSDOT R/W
- WSDOT LIMITED ACCESS
- 30 29 / 31 32 SECTION CORNER FOUND

T. 31N. R. 5E. W.M.



NOTES:

1. PER RCW 58.09-130, ANY MONUMENT OR CORNER DISTURBED BY THE CONTRACTORS SHALL BE REPLACED AT NO COST TO THE CONTRACTING AGENCY.

0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_AL_RW.dgn
TIME	8:59:04 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

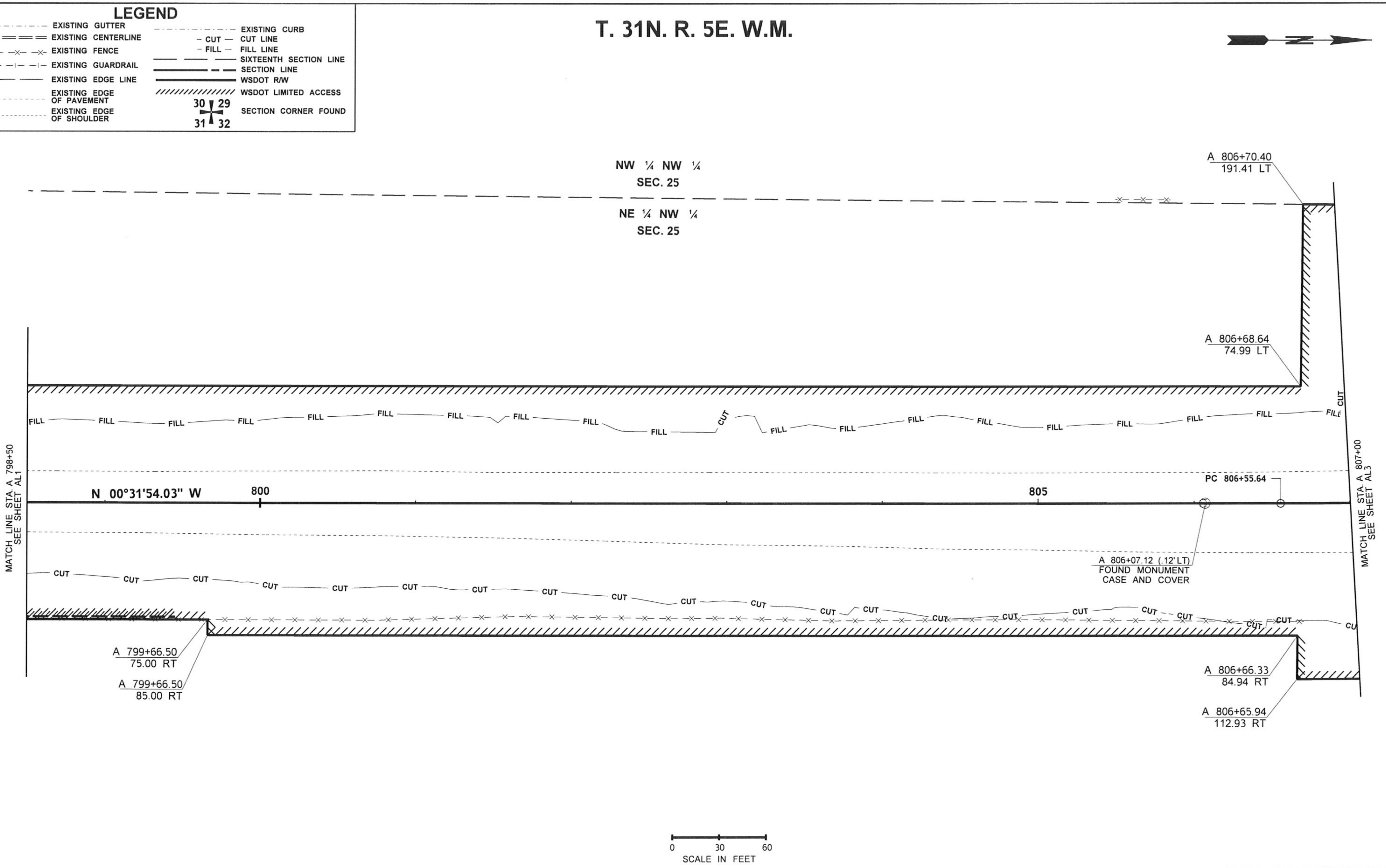
ALIGNMENT/RIGHT OF WAY

Plot 1
PLAN REF NO
AL1
SHEET
OF
SHEETS

LEGEND

- EXISTING GUTTER
- EXISTING CENTERLINE
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING EDGE LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF SHOULDER
- EXISTING CURB
- CUT — CUT LINE
- FILL — FILL LINE
- SIXTEENTH SECTION LINE
- SECTION LINE
- WSDOT R/W
- WSDOT LIMITED ACCESS
- 30 29 31 32 SECTION CORNER FOUND

T. 31N. R. 5E. W.M.



FILE NAME N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_AL_RW.dgn

TIME	8:59:05 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M. GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO. 10
STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

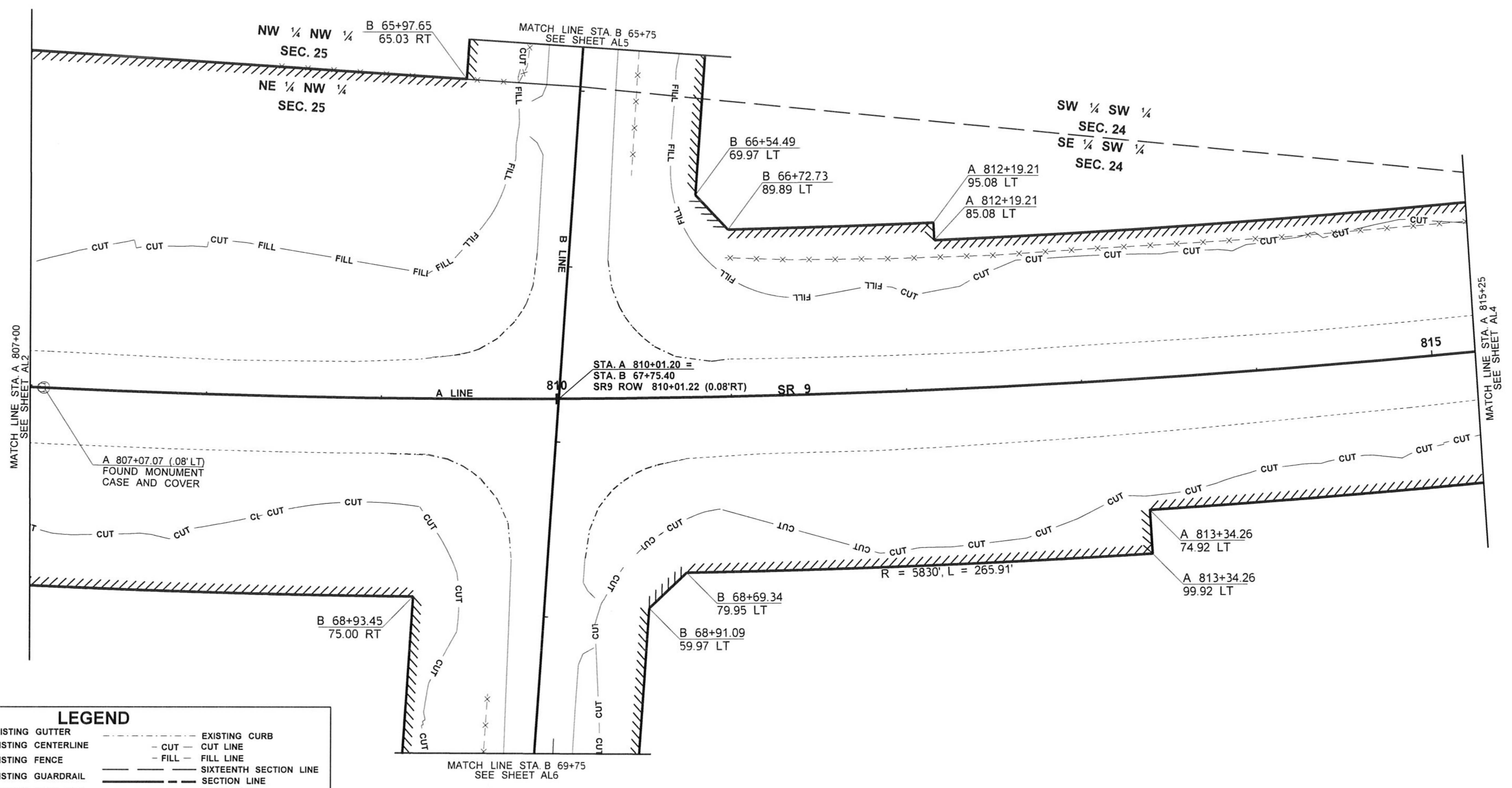
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

ALIGNMENT/RIGHT OF WAY

Plot 2
PLAN REF NO
AL2
SHEET
OF
SHEETS

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
A 815+27.63	17° 18' 21"	5730.00'	872.00'	1730.71'	

T. 31N. R. 5E. W.M.



LEGEND

- EXISTING GUTTER
- EXISTING CENTERLINE
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING EDGE LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF SHOULDER
- EXISTING CURB
- CUT — CUT LINE
- FILL — FILL LINE
- SIXTEENTH SECTION LINE
- SECTION LINE
- WSDOT R/W
- WSDOT LIMITED ACCESS
- 30 29 31 32 SECTION CORNER FOUND

0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_AL_RW.dgn			
TIME	8:59:06 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M. GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

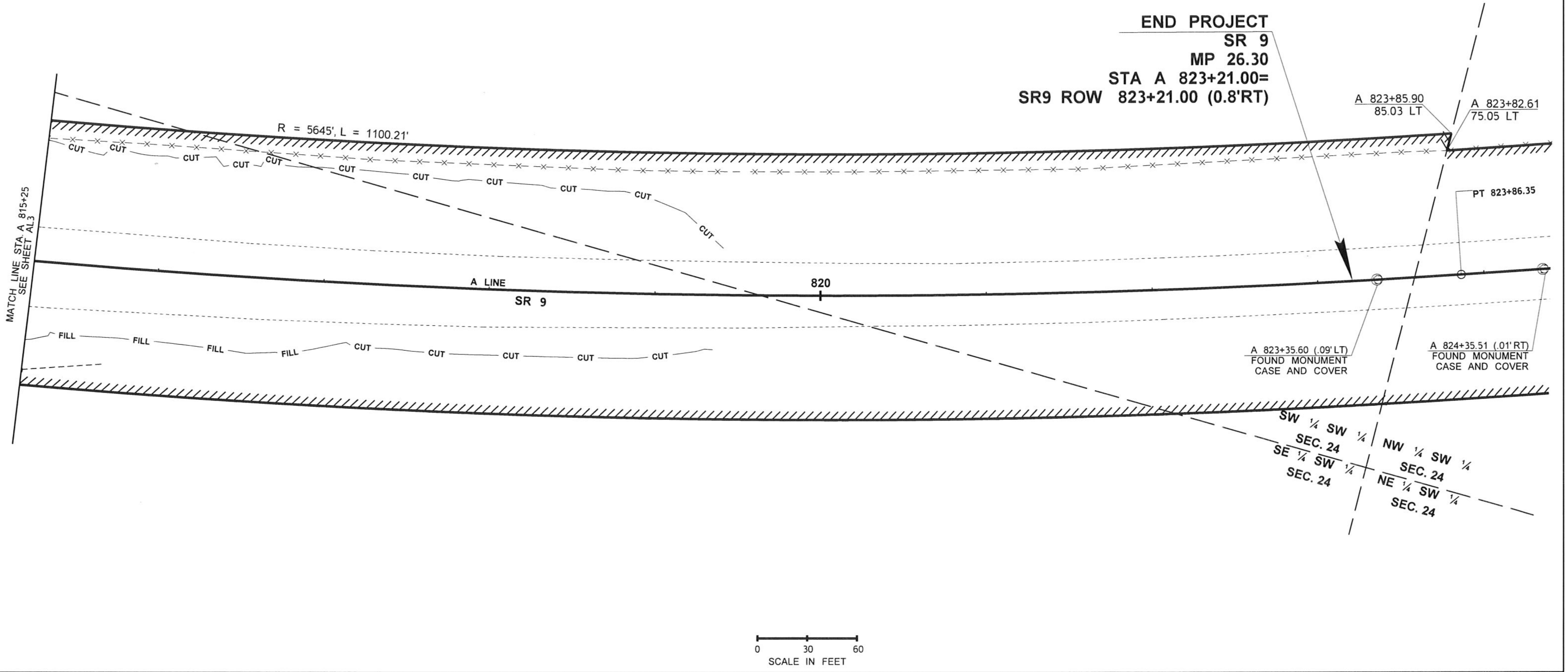
ALIGNMENT/RIGHT OF WAY

Plot 3
PLAN REF NO
AL3
SHEET
OF
SHEETS

LEGEND

EXISTING GUTTER	EXISTING CURB
EXISTING CENTERLINE	– CUT – CUT LINE
EXISTING FENCE	– FILL – FILL LINE
EXISTING GUARDRAIL	SIXTEENTH SECTION LINE
EXISTING EDGE LINE	SECTION LINE
EXISTING EDGE OF PAVEMENT	WSDOT R/W
EXISTING EDGE OF SHOULDER	WSDOT LIMITED ACCESS
	30 29 / 31 32 SECTION CORNER FOUND

T. 31N. R. 5E. W.M.



FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_AL_RW.dgn
TIME	8:59:08 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

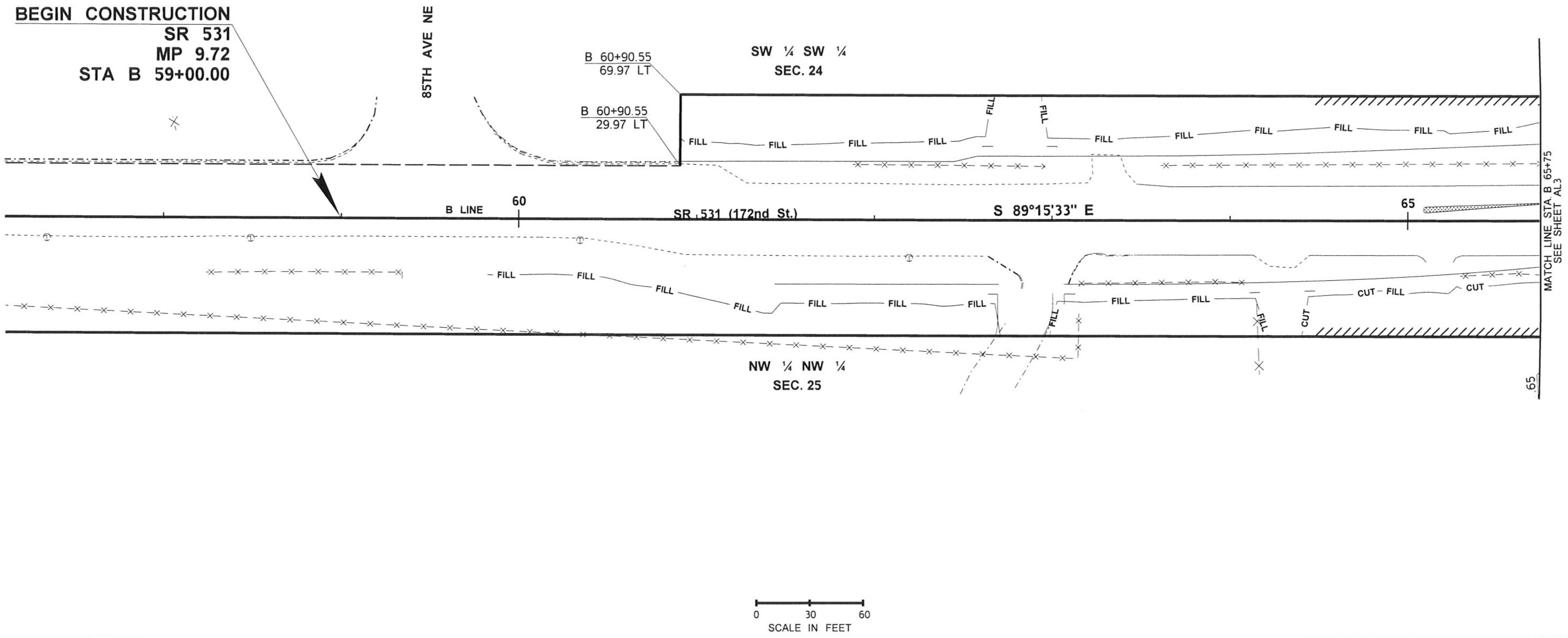
ALIGNMENT/RIGHT OF WAY

Plot 4
PLAN REF NO
AL4
SHEET
OF
SHEETS

LEGEND

- EXISTING GUTTER
- EXISTING CENTERLINE
- EXISTING FENCE
- EXISTING GUARDRAIL
- EXISTING EDGE LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF SHOULDER
- EXISTING CURB
- CUT LINE
- FILL LINE
- SIXTEENTH SECTION LINE
- SECTION LINE
- WSDOT R/W
- WSDOT LIMITED ACCESS
- 30 29 31 32 SECTION CORNER FOUND

T. 31N. R. 5E. W.M.



FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_AL_RW.dgn
TIME	8:59:09 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO. | LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

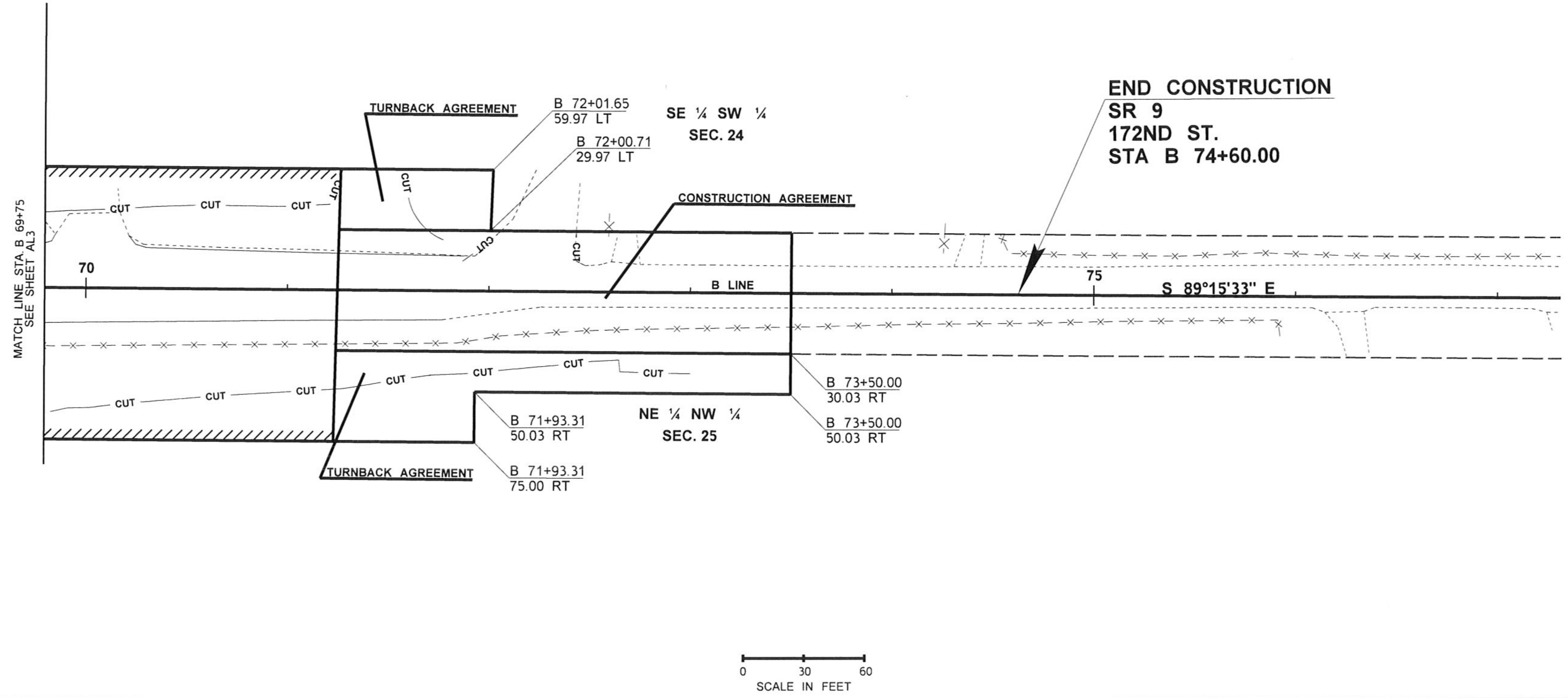
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

ALIGNMENT/RIGHT OF WAY

Plot 5
PLAN REF NO
AL5
SHEET
OF
SHEETS

LEGEND

-·-·-·-·-	EXISTING GUTTER
═══════	EXISTING CENTERLINE
-x- -x- -x-	EXISTING FENCE
-|- -|- -|-	EXISTING GUARDRAIL
—— —— ——	EXISTING EDGE LINE
- - - - - -	EXISTING EDGE OF PAVEMENT
- - - - - -	EXISTING EDGE OF SHOULDER
-·-·-·-·-	EXISTING CURB
– CUT –	CUT LINE
– FILL –	FILL LINE
—— —— ——	SIXTEENTH SECTION LINE
——— — —	SECTION LINE
━━━━━	WSDOT R/W
//////////////	WSDOT LIMITED ACCESS
30 29 / 31 32	SECTION CORNER FOUND



FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_AL_RW.dgn
TIME	9:19:56 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

ALIGNMENT/RIGHT OF WAY

Plot 6
PLAN REF NO
AL6
SHEET
OF
SHEETS

QUANTITY TABULATION - SITE PREP

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

GENERAL NOTES:

CODE	LOCATION ⊽ \ UNIT OF MEASURE ⊳		REMOVING DRAINAGE STRUCTURE		REMOVING PAINT LINE		REMOVING PLASTIC TRAFFIC MARKING		REMOVING PAINTED CROSSWALK LINE		REMOVING CHAIN LINK FENCE	REMOVING WIRE FENCE		PLUGGING EXISTING PIPE			SEE GENERAL NOTES
			EACH		L.F.		EACH		S.F.		L.F.	L.F.		EACH			
	A 795+77 TO A 819+60				7150		4		360								
	B 59+00 TO B 73+00				4200		4		360								
SPU3-1	B 67+11.7 (18.1' RT)		1											3			
SPU3-2	B 67+09.5 (23.5' RT)		1											1			
SPU3-3	B 68+35.0 (30.3' RT)		1											3			
SPU3-4	B 68+34.9 (26.1' LT)		1											2			
SPU3-5	A 811+23.0 (38.8' RT)		1											2			
SPU3-6	A 812+98.0 (40.2' RT)		1											2			
SPU3-7	B 69+46.0 (28.9' RT) TO B 73+00.0 (17.9' RT)											354					
SPU5-1	B 63+59.3 (18.8' LT)		1											2			
SPU5-2	B 63+26.1 (17.1' RT)		1											2			
SPU5-3	B 63+15.5 (35.4' RT) TO B 64+08.5 (34.8' RT)										93						
SPU5-4	B 65+39.1 (19.4' LT)		1											2			
SPU5-5	B 65+38.4 (18.4' RT)		1											2			
SPU5-6	B 61+87.6 (31.1' LT) TO B 62+96.0 (30.3' LT)											108					
SPU6-1	B 70+29.7 (19.3' LT)		1											2			
SPU6-2	B 70+29.2 (15.6' RT)		1											2			
	SHEET TOTAL		12		11350		8		720		93	462		25			
	PROJECT TOTAL		12		11350		8		720		93	462		25			

DESIGNED BY					
ENTERED BY		02/09/10			
CHECKED BY					
PROJ. ENGR.					
REGION ADM.					
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	

JOB NUMBER

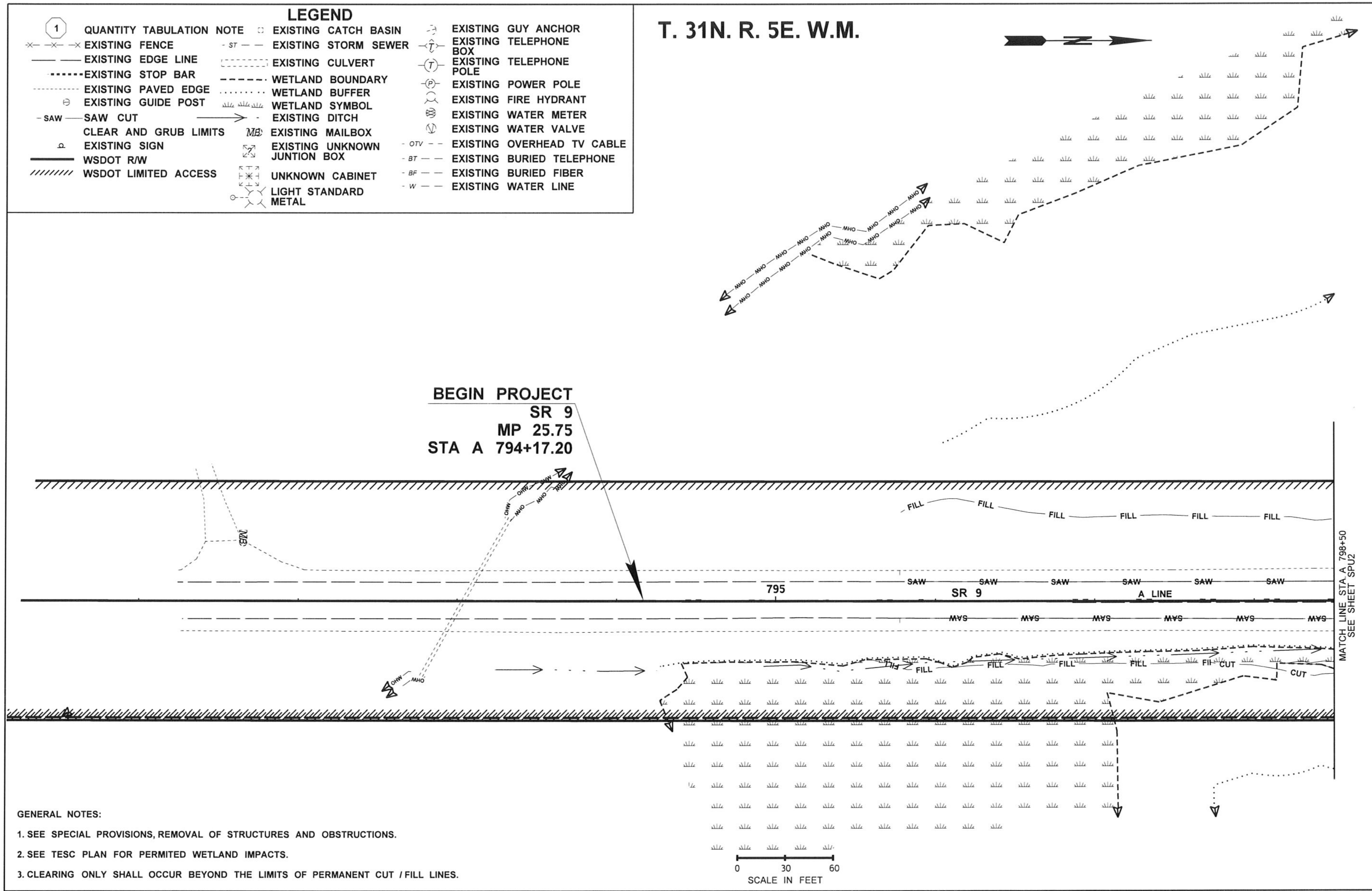
CONTRACT NO.

Washington State Department of Transportation

SR9
SR 531/ 172ND ST
INTERSECTION IMPROVEMENTS

QUANTITY TABULATION - SITE PREP

QTSP 1
SHEET
OF
SHEETS



GENERAL NOTES:

1. SEE SPECIAL PROVISIONS, REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
2. SEE TESC PLAN FOR PERMITED WETLAND IMPACTS.
3. CLEARING ONLY SHALL OCCUR BEYOND THE LIMITS OF PERMANENT CUT / FILL LINES.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_SITE PREP&UTILITIES.dgn
TIME	11:21:36 AM
DATE	3/24/2010
PLOTTED BY	lamaymp
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

SITE PREPARATION/UTILITES PLAN

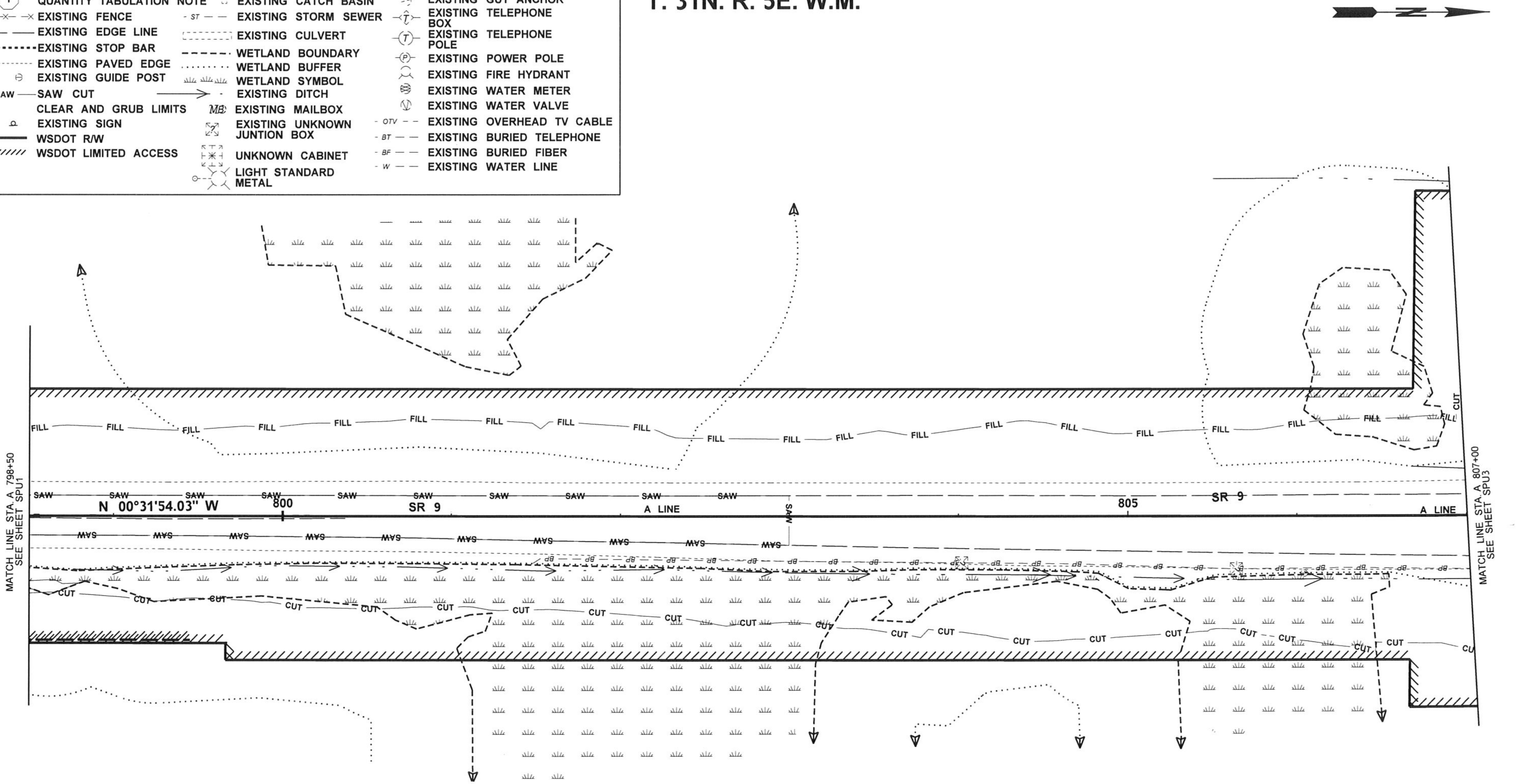
Plot 1
PLAN REF NO
SPU1

SHEET
OF
SHEETS

LEGEND

①	QUANTITY TABULATION NOTE
-x- -x- -x	EXISTING FENCE
—— ——	EXISTING EDGE LINE
•••••••	EXISTING STOP BAR
··········	EXISTING PAVED EDGE
⊖	EXISTING GUIDE POST
- SAW ——	SAW CUT
	CLEAR AND GRUB LIMITS
⌂	EXISTING SIGN
——	WSDOT R/W
//////////	WSDOT LIMITED ACCESS
▫	EXISTING CATCH BASIN
- ST — —	EXISTING STORM SEWER
┌┄┄┐	EXISTING CULVERT
— — — —	WETLAND BOUNDARY
········	WETLAND BUFFER
ꟾꟾ ꟾꟾ	WETLAND SYMBOL
——→ ·	EXISTING DITCH
MB	EXISTING MAILBOX
⊠	EXISTING UNKNOWN JUNTION BOX
⊠	UNKNOWN CABINET
○—✕	LIGHT STANDARD METAL
	EXISTING GUY ANCHOR
Ⓣ	EXISTING TELEPHONE BOX
Ⓣ	EXISTING TELEPHONE POLE
Ⓟ	EXISTING POWER POLE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING WATER VALVE
- OTV — —	EXISTING OVERHEAD TV CABLE
- BT — —	EXISTING BURIED TELEPHONE
- BF — —	EXISTING BURIED FIBER
- W — —	EXISTING WATER LINE

T. 31N. R. 5E. W.M.



GENERAL NOTES:

1. SEE SPECIAL PROVISIONS, REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
2. SEE TESC PLAN FOR ALLOWABLE ACTIVITIES IN THE WETLANDS.

0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_SITE PREP&UTILITIES.dgn
TIME	11:21:37 AM
DATE	3/24/2010
PLOTTED BY	lamaymp
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

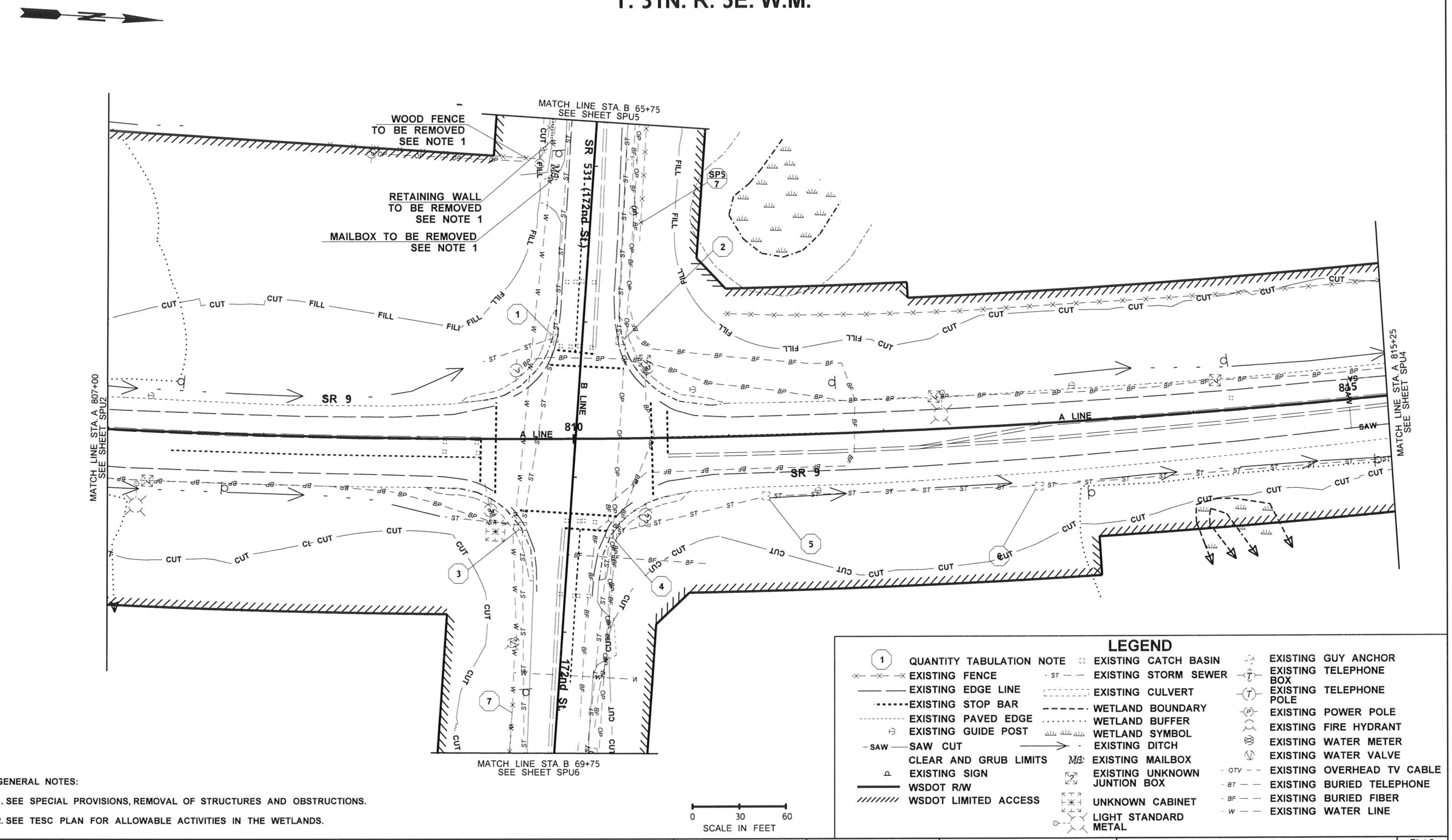
Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

SITE PREPARATION/UTILITES PLAN

Plot 2
PLAN REF NO
SPU2
SHEET
OF
SHEETS

T. 31N. R. 5E. W.M.



GENERAL NOTES:

1. SEE SPECIAL PROVISIONS, REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
2. SEE TESC PLAN FOR ALLOWABLE ACTIVITIES IN THE WETLANDS.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_SITE PREP&UTILITIES.dgn					
TIME	11:21:38 AM				REGION NO. 10	STATE WASH
DATE	3/24/2010					
PLOTTED BY	lamaymp				JOB NUMBER	
DESIGNED BY	M. GUNN					
ENTERED BY	K.SOLWOLD					
CHECKED BY	J. KORESKI				CONTRACT NO.	LOCATION NO.
PROJ. ENGR.	S.SPAHR					
REGIONAL ADM.	L. ENG	REVISION	DATE	BY		

FED.AID PROJ.NO.

P.E. STAMP BOX
DATE

P.E. STAMP BOX
DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

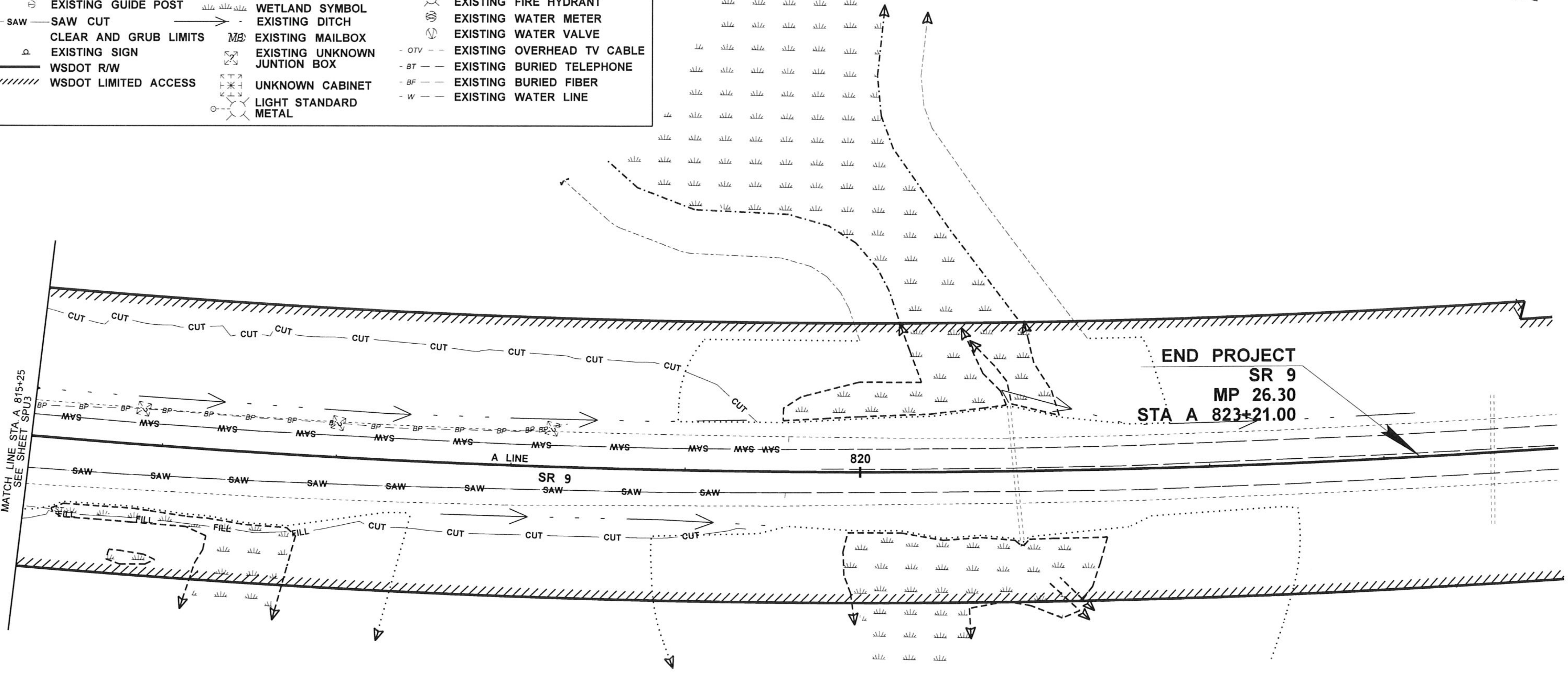
SITE PREPARATION/UTILITES PLAN

Plot 3
PLAN REF NO
SPU3
SHEET
OF
SHEETS

LEGEND

- ① QUANTITY TABULATION NOTE
- EXISTING FENCE
- EXISTING EDGE LINE
- EXISTING STOP BAR
- EXISTING PAVED EDGE
- EXISTING GUIDE POST
- SAW CUT
- CLEAR AND GRUB LIMITS
- EXISTING SIGN
- WSDOT R/W
- WSDOT LIMITED ACCESS
- EXISTING CATCH BASIN
- EXISTING STORM SEWER
- EXISTING CULVERT
- WETLAND BOUNDARY
- WETLAND BUFFER
- WETLAND SYMBOL
- EXISTING DITCH
- EXISTING MAILBOX
- EXISTING UNKNOWN JUNTION BOX
- UNKNOWN CABINET
- LIGHT STANDARD METAL
- EXISTING GUY ANCHOR
- EXISTING TELEPHONE BOX
- EXISTING TELEPHONE POLE
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING WATER VALVE
- EXISTING OVERHEAD TV CABLE
- EXISTING BURIED TELEPHONE
- EXISTING BURIED FIBER
- EXISTING WATER LINE

T. 31N. R. 5E. W.M.



GENERAL NOTES:

1. SEE SPECIAL PROVISIONS, REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

2. SEE TESC PLAN FOR ALLOWABLE ACTIVITIES IN THE WETLANDS.

0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_SITE PREP&UTILITIES.dgn
TIME	11:21:40 AM
DATE	3/24/2010
PLOTTED BY	lamaymp
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION DATE BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

SITE PREPARATION/UTILITES PLAN

Plot 4
PLAN REF NO
SPU4
SHEET
OF
SHEETS

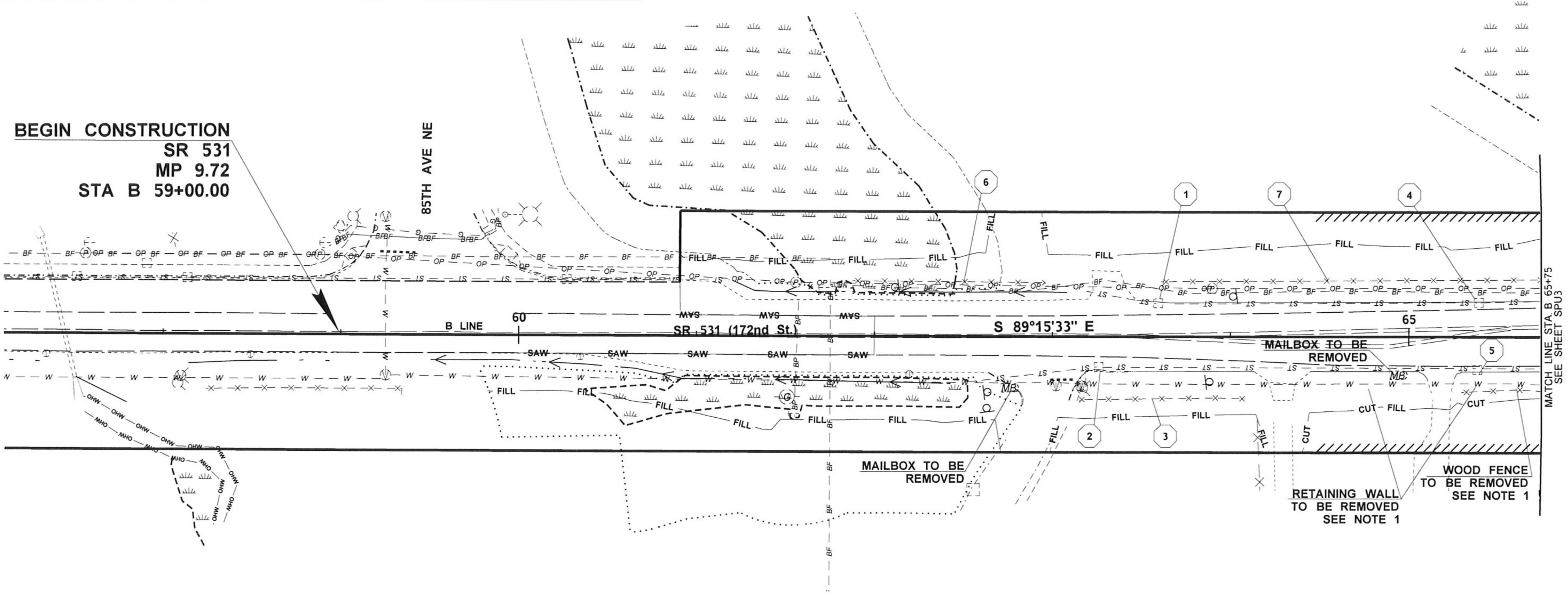
LEGEND

① QUANTITY TABULATION NOTE
EXISTING FENCE
EXISTING EDGE LINE
EXISTING STOP BAR
EXISTING PAVED EDGE
EXISTING GUIDE POST
SAW CUT
CLEAR AND GRUB LIMITS
EXISTING SIGN
WSDOT R/W
WSDOT LIMITED ACCESS

EXISTING CATCH BASIN
EXISTING STORM SEWER
EXISTING CULVERT
WETLAND BOUNDARY
WETLAND BUFFER
WETLAND SYMBOL
EXISTING DITCH
EXISTING MAILBOX
EXISTING UNKNOWN JUNTION BOX
UNKNOWN CABINET
LIGHT STANDARD METAL

EXISTING GUY ANCHOR
EXISTING TELEPHONE BOX
EXISTING TELEPHONE POLE
EXISTING POWER POLE
EXISTING FIRE HYDRANT
EXISTING WATER METER
EXISTING WATER VALVE
EXISTING OVERHEAD TV CABLE
EXISTING BURIED TELEPHONE
EXISTING BURIED FIBER
EXISTING WATER LINE

T. 31N. R. 5E. W.M.



GENERAL NOTES:

1. SEE SPECIAL PROVISIONS, REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
2. SEE TESC PLAN FOR ALLOWABLE ACTIVITIES IN THE WETLANDS.

0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_SITE PREP&UTILITIES.dgn
TIME	11:21:41 AM
DATE	3/24/2010
PLOTTED BY	lamaymp
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE
P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

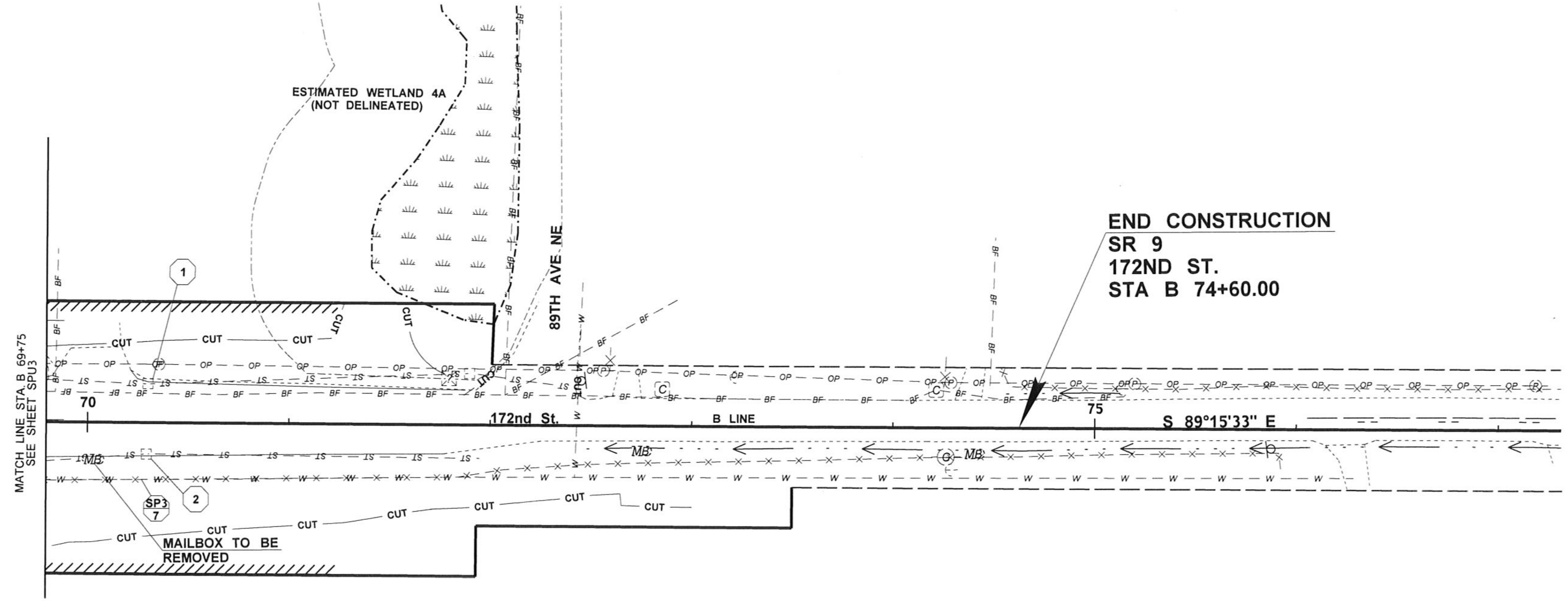
SITE PREPARATION/UTILITES PLAN

Plot 5
PLAN REF NO
SPU5
SHEET
OF
SHEETS

LEGEND

1	QUANTITY TABULATION NOTE
—x—x—x	EXISTING FENCE
	EXISTING EDGE LINE
	EXISTING STOP BAR
	EXISTING PAVED EDGE
	EXISTING GUIDE POST
- SAW —	SAW CUT
	CLEAR AND GRUB LIMITS
	EXISTING SIGN
	WSDOT R/W
	WSDOT LIMITED ACCESS
	EXISTING CATCH BASIN
- ST — —	EXISTING STORM SEWER
	EXISTING CULVERT
	WETLAND BOUNDARY
	WETLAND BUFFER
	WETLAND SYMBOL
	EXISTING DITCH
MB	EXISTING MAILBOX
	EXISTING UNKNOWN JUNTION BOX
	UNKNOWN CABINET
	LIGHT STANDARD METAL
	EXISTING GUY ANCHOR
T	EXISTING TELEPHONE BOX
T	EXISTING TELEPHONE POLE
P	EXISTING POWER POLE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING WATER VALVE
- OTV — —	EXISTING OVERHEAD TV CABLE
- BT — —	EXISTING BURIED TELEPHONE
- BF — —	EXISTING BURIED FIBER
- W — —	EXISTING WATER LINE

T. 31N. R. 5E. W.M.



GENERAL NOTES:

1. SEE SPECIAL PROVISIONS, REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
2. SEE TESC PLAN FOR ALLOWABLE ACTIVITIES IN THE WETLANDS.

0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_SITE PREP&UTILITIES.dgn
TIME	11:21:42 AM
DATE	3/24/2010
PLOTTED BY	lamaymp
DESIGNED BY	M.GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

P.E. STAMP BOX DATE

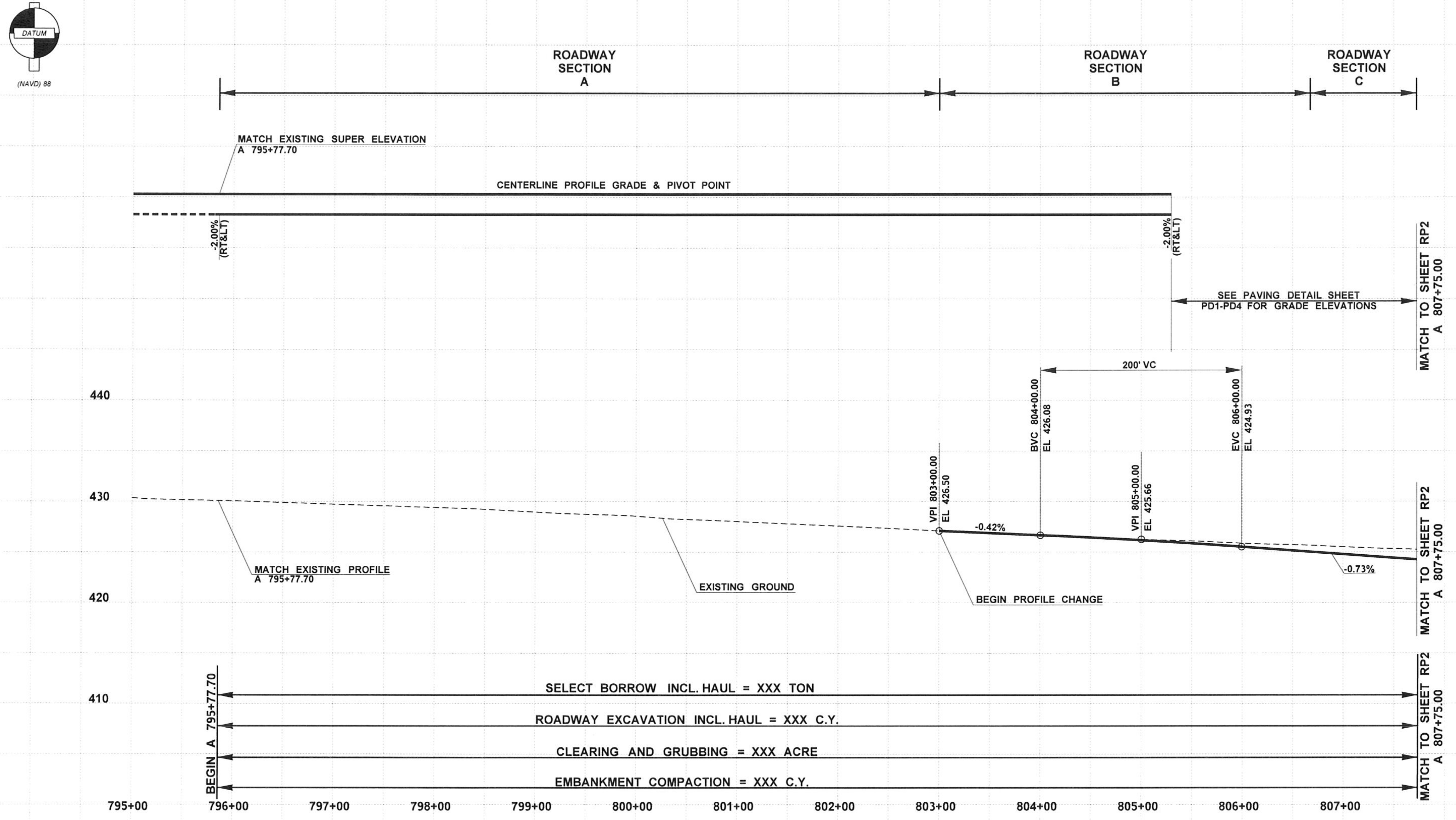
P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

SITE PREPARATION/UTILITES PLAN

Plot 6
PLAN REF NO
SPU6
SHEET
OF
SHEETS



A LINE PROFILE

FILE NAME N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_RP.dgn
TIME 9:45:00 AM
DATE 3/24/2010
PLOTTED BY gunnm
DESIGNED BY M.GUNN
ENTERED BY K.SOLWOLD
CHECKED BY J.KORESKI
PROJ. ENGR. S.SPAHR
REGIONAL ADM. L.ENG

REVISION	DATE	BY

REGION NO. 10
STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

P.E. STAMP BOX DATE

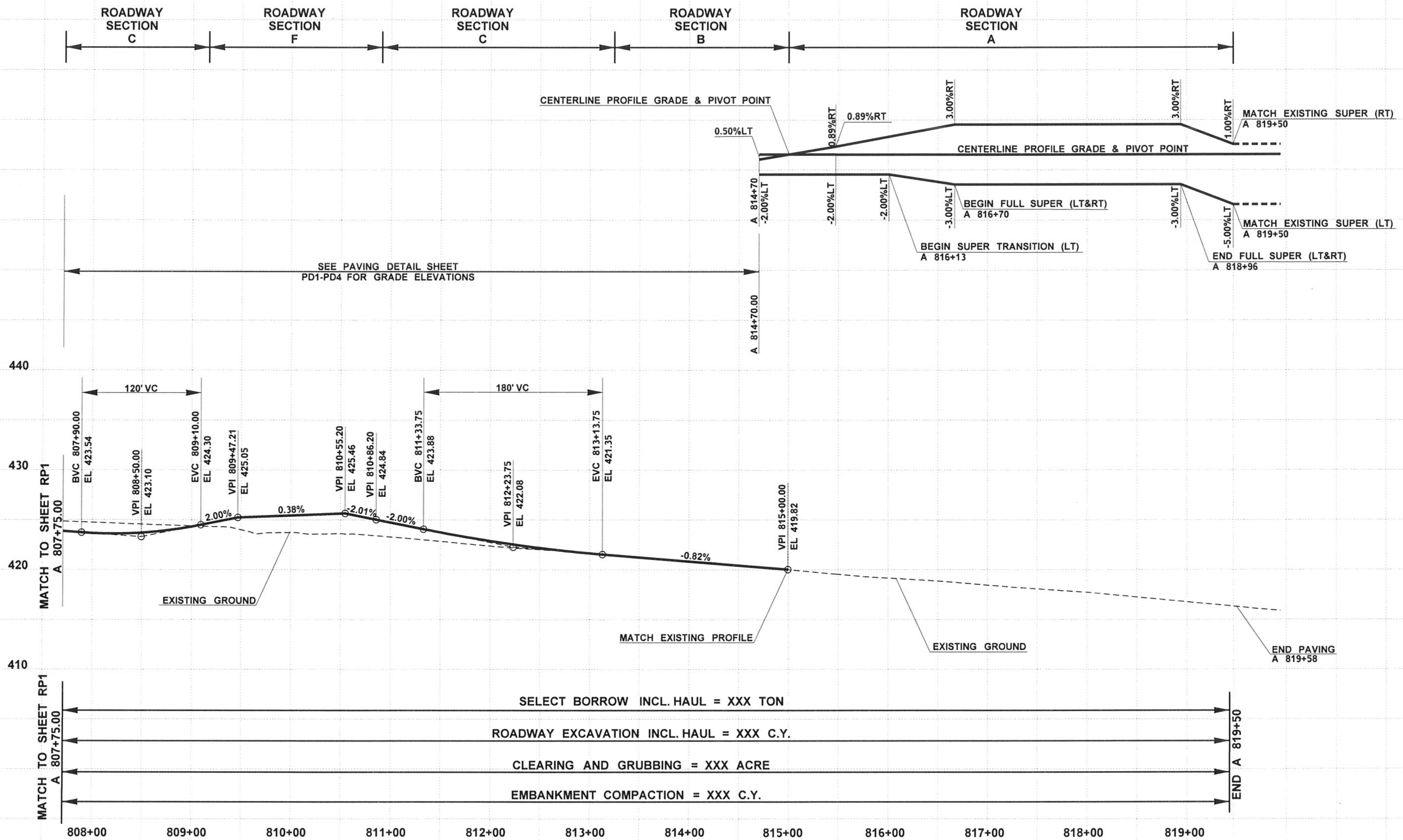
P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

ROADWAY PROFILE

Plot 1
PLAN REF. NO.
RP1
SHEET
OF
SHEETS



A LINE PROFILE

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_RP.dgn
TIME	9:45:01 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION | DATE | BY

REGION NO. 10 | STATE WASH

FED.AID PROJ.NO.

JOB NUMBER

CONTRACT NO.

LOCATION NO.

DATE
P.E. STAMP BOX

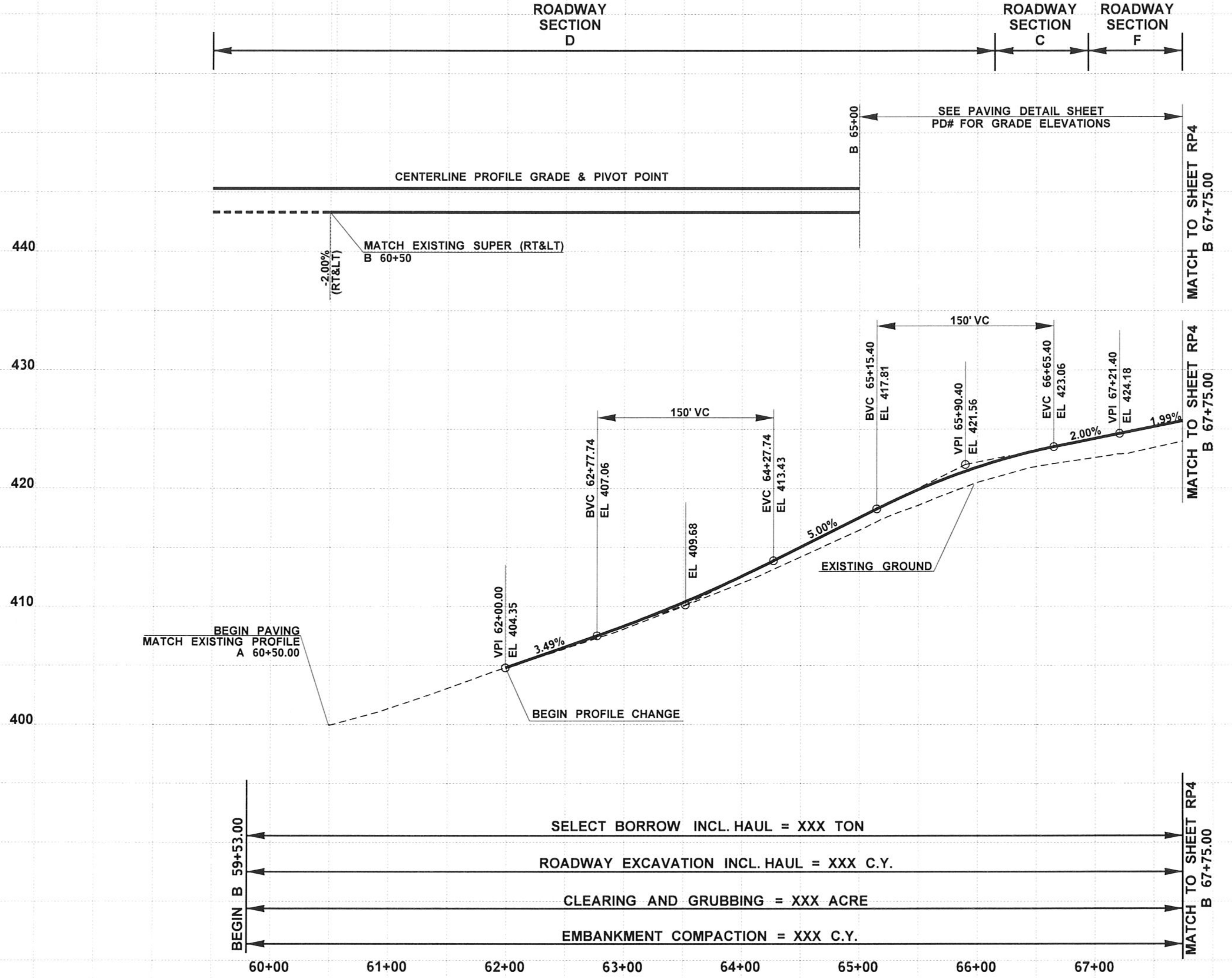
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

ROADWAY PROFILE

Plot 2
PLAN REF. NO.
RP2
SHEET
OF
SHEETS



B LINE PROFILE

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_RP.dgn			
TIME	9:45:03 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M.GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J.KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L.ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.	LOCATION NO.	

P.E. STAMP BOX DATE

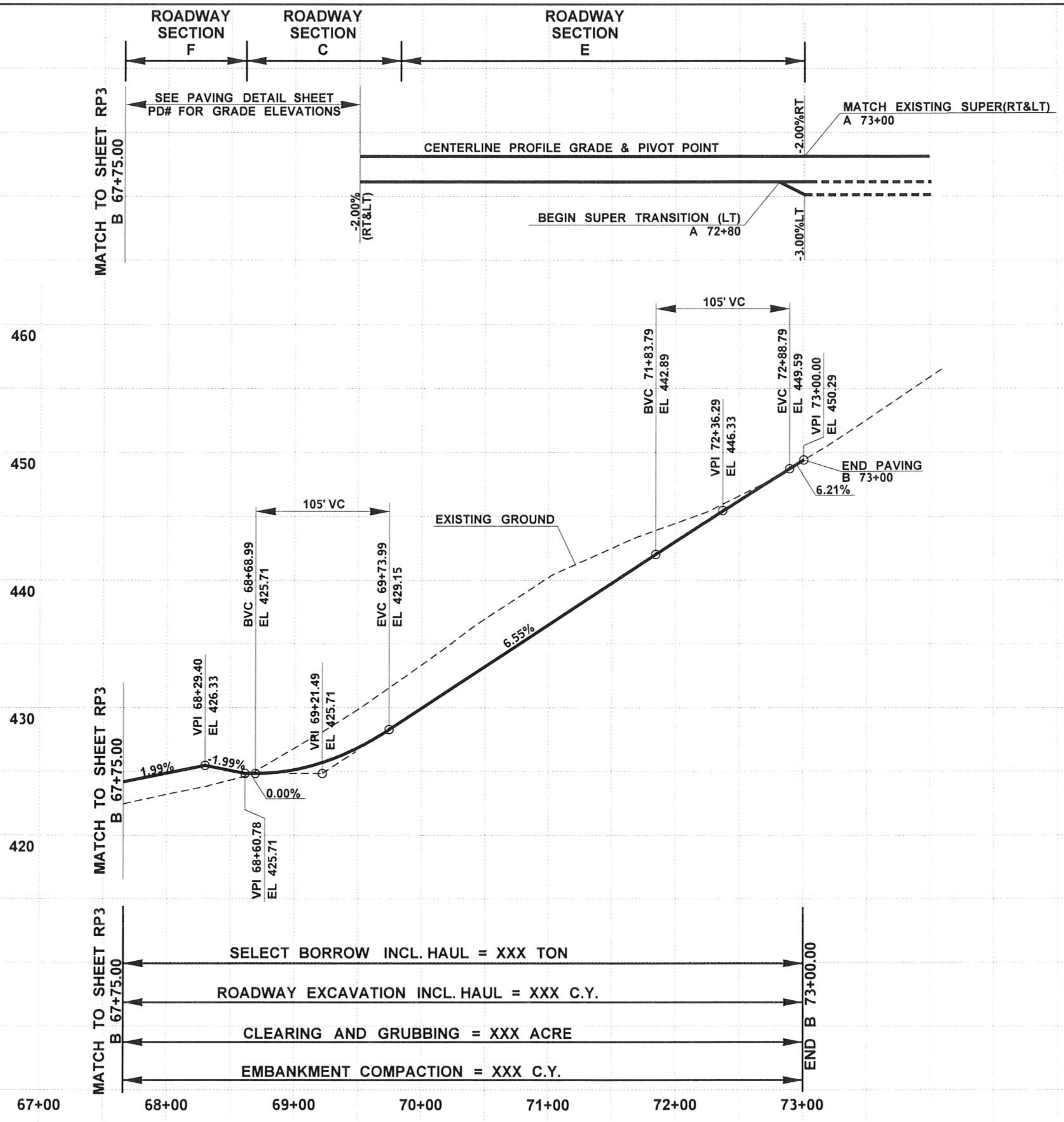
P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

ROADWAY PROFILE

Plot 3
PLAN REF. NO.
RP3
SHEET
OF
SHEETS



B LINE PROFILE

FILE NAME N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_RP.dgn
TIME 9:45:04 AM
DATE 3/24/2010
PLOTTED BY gunnm
DESIGNED BY M.GUNN
ENTERED BY K.SOLWOLD
CHECKED BY J.KORESKI
PROJ. ENGR. S.SPAHR
REGIONAL ADM. L.ENG

380

REVISION DATE BY

REGION NO. 10
STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

P.E. STAMP BOX DATE
P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

ROADWAY PROFILE

Plot 4
PLAN REF. NO.
RP4
SHEET
OF
SHEETS

QUANTITY TABULATION - EROSION CONTROL

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ⋎ \ UNIT OF MEASURE ⋗		CHECK DAM		STABILIZED CONSTRUCTION ENTRANCE		INLET PROTECTION		SILT FENCE		HIGH VISABILITY FENCE						SEE GENERAL NOTES
			L.F.		S.Y.		EACH		L.F.		L.F.						
TESC1	A 795+33.0 (73.0' LT) TO A 802+68.6 (72.0' LT)								740								4
TESC1	A 795+29.6 (38.0' RT) TO A 807+13.7 (112.9' RT)								1230								4
TESC1	A 795+29.6 (38.0' RT) TO A 807+13.7 (112.9' RT)										1230						5
TESC2	A 799+08.8 (74.0' LT) TO A 802+68.6 (74.0' LT)										360						5
TESC2	A 805+45.5 (74.0' LT) TO A 806+71.4 (191.4' LT)								250								4
TESC2	A 805+45.5 (74.0' LT) TO A 806+94.9 (190.1' LT)										270						5
TESC3-1	B 67+11.7 (18.1' RT)						1										3
TESC3-2	B 67+10.5 (24.3' LT)						1										3
TESC3-3	B 68+33.7 (30.2' RT)						1										3
TESC3-4	B 68+34.9 (26.1' LT)						1										3
TESC3-5	A 811+23 (38.8' RT)						1										3
TESC3	A 812+19.2 (94.1' LT) TO A 814+07.3 (83.1' LT)								190								4
TESC3-6	A 812+98 (40.2' RT)						1										3
TESC3	A 813+16.6 (99.9' RT) TO A 817+40.2 (74.9' RT)								490		490						4, 5
TESC4	A 815+79.2 (83.1' LT) TO A 819+54.7 (28.1' LT)								430								4
TESC4	A 818+76.6 (74.9' RT) TO A 819+54.7 (32.4' RT)								130		130						4,5
TESC4	A 819+03.1 (65.7' LT) TO A 819+54.7 (28.1' RT)										110						5
TESC5	B 58+14.2 (16.6' RT) TO B 62+38.5 (26.3' RT)		100														1
TESC5	B 58+88.7 (31.8' RT) TO B 59+90.9 (64.0' RT)								130		130						4, 5
TESC5-1	B 60+26.8 (31.3' LT)						1										3
TESC5	B 60+92.1 (43.9' LT) TO A 812+19.2 (94.1' LT)										730						5
TESC5	B 60+92.1 (43.9' LT) TO B 62+69.2 (67' LT)								200								4
TESC5	B 61+20.2 (31.1' LT) TO B 63+08.1 (24.7' LT)		60														1
TESC5-2	B 63+26.1 (17.1' RT)						1										3
TESC5-3	B 63+59.3 (18.8' LT)						1										3
TESC5-4	B 65+38.4 (18.4' RT)						1										3
TESC5-5	B 65+39.1 (19.4' LT)						1										3
TESC6-1	B 70+29.2 (15.6' RT)						1										3
TESC6-2	B 70+29.7 (19.3' LT)						1										3
TESC6	B 70+83.4 (59.0' LT) TO B 72+04.7 (29.0' LT)										150						5
TESC6	B 71+57.3 (57.0' LT) TO B 72+02.7 (27.0' LT)								70								4
TESC6-3	B 71+89.6 (25.5' LT)						1										3
	SHEET TOTAL		160				14		3860		3600						
	PROJECT TOTAL		160				14		3860		3600						

GENERAL NOTES:

1. SEE GEOTEXTILE ENCASED CHECK DAM INSTALLATION
STANDARD PLAN I-50.10-00

2. SEE MISCELLANEOUS EROSION CONTROL DETAILS
STANDARD PLAN I-80.10-01

3. SEE STORM DRAIN INLET PROTECTION
STANDARD PLAN I-40.20-00

4. SEE SILT FENCE
STANDARD PLAN I-30.15-00

5. SEE HIGH VISIBILITY FENCE
STANDARD PLAN I-10.10-01

DESIGNED BY					
ENTERED BY		02/23/10			
CHECKED BY					
PROJ. ENGR.					
REGION ADM.					
		DATE	DATE	REVISION	BY

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

Washington State
Department of Transportation

SR9
SR 531 / 172ND ST NE
INTERSECTION IMPROVEMENTS

QUANTITY TABULATION - EROSION CONTROL

QTEC 1
SHEET
OF
SHEETS

LEGEND

OHW — OHW — OHW	ORDINARY HIGH WATER
	EXISTING CURB
	EXISTING STOP BAR
	EXISTING FENCE
	EXISTING EDGE LINE
	EXISTING EDGE OF PAVEMENT
	EXISTING EDGE OF SHOULDER
	EXISTING GUTTER FACE
	EXISTING CATCH BASIN
	EXISTING MAN HOLE
⟨1⟩	QUANTITY TABULATION
□	INLET PROTECTION
HVF — HVF	HIGH VISIBILITY FENCING
	SILT FENCE
	CHECK DAM
	WSDOT R/W
	WETLAND SYMBOL
ST — ST	EXISTING STORM SEWER
	EXISTING CULVERT
	WETLAND BOUNDARY
	WETLAND BUFFER
←	EXISTING DITCH

WETLAND AREAS (SQ. FT.)

WETLAND NAME	WETLAND 1	WETLAND 4
DOE CATEGORY	III	III
WETLAND AREA	>871,000	>1,089,000
DIRECT WETLAND IMPACT	0	20,600
%DIRECT WETLAND IMPACT	0.0%	*1.9%
INDIRECT WETLAND IMPACT	0	0
TEMPORARY WETLAND IMPACT	0	8,300
WETLAND BUFFER AREA	---	---
WETLAND BUFFER IMPACT	5,050	7,550
TEMPORARY BUFFER IMPACT	6,750	7,050

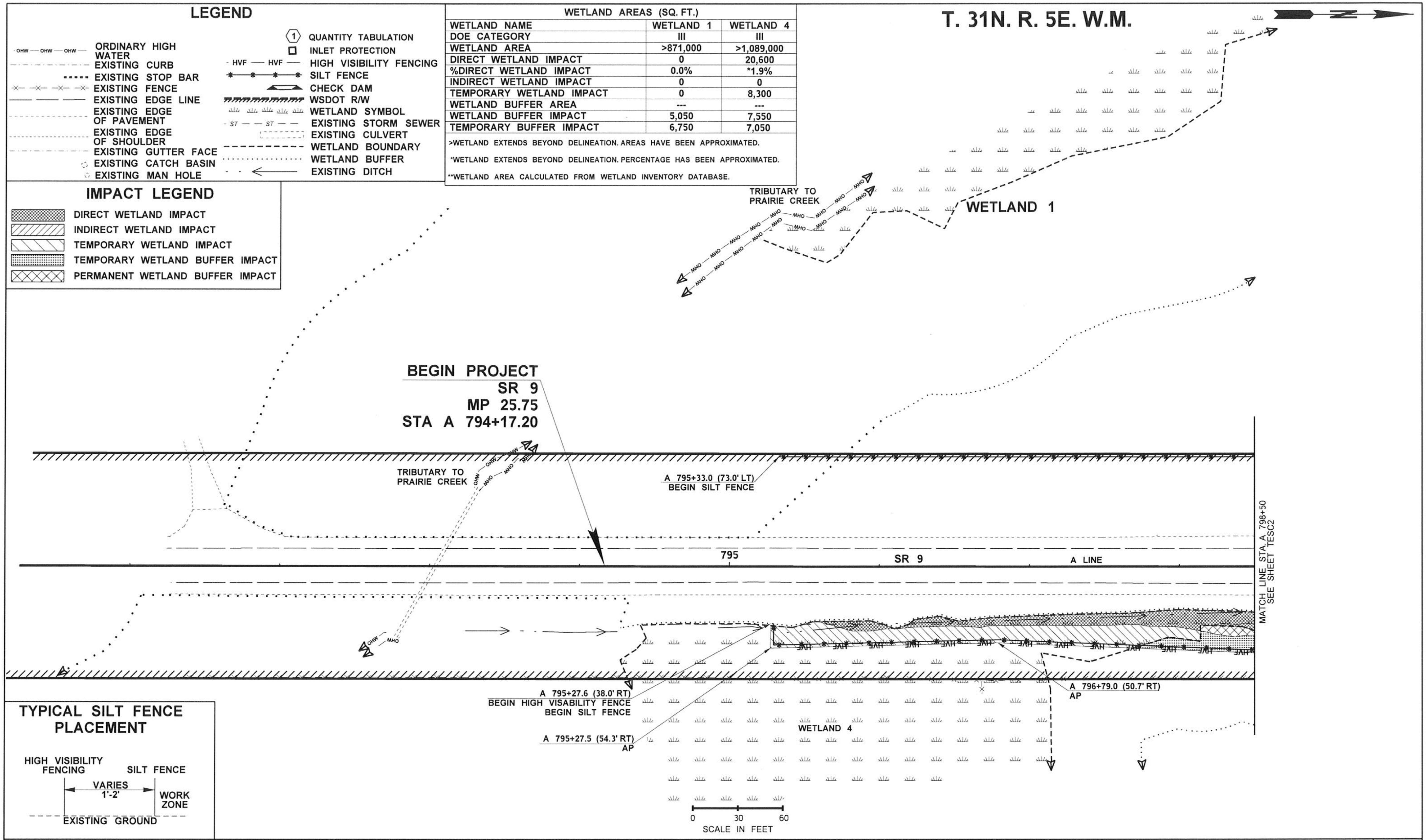
>WETLAND EXTENDS BEYOND DELINEATION. AREAS HAVE BEEN APPROXIMATED.

*WETLAND EXTENDS BEYOND DELINEATION. PERCENTAGE HAS BEEN APPROXIMATED.

**WETLAND AREA CALCULATED FROM WETLAND INVENTORY DATABASE.

IMPACT LEGEND

- ▩ DIRECT WETLAND IMPACT
- ▨ INDIRECT WETLAND IMPACT
- ▧ TEMPORARY WETLAND IMPACT
- ▦ TEMPORARY WETLAND BUFFER IMPACT
- ▩ PERMANENT WETLAND BUFFER IMPACT



FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_TESC_PS.DGN
TIME	2:01:55 PM
DATE	3/22/2010
PLOTTED BY	solwolk
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

TEMPORARY EROSION CONTROL / ENVIRONMENTL COMPLIANCE PLAN

Plot 1
PLAN REF NO
TESC1
SHEET
OF
SHEETS

T. 31N. R. 5E. W.M.

IMPACT LEGEND

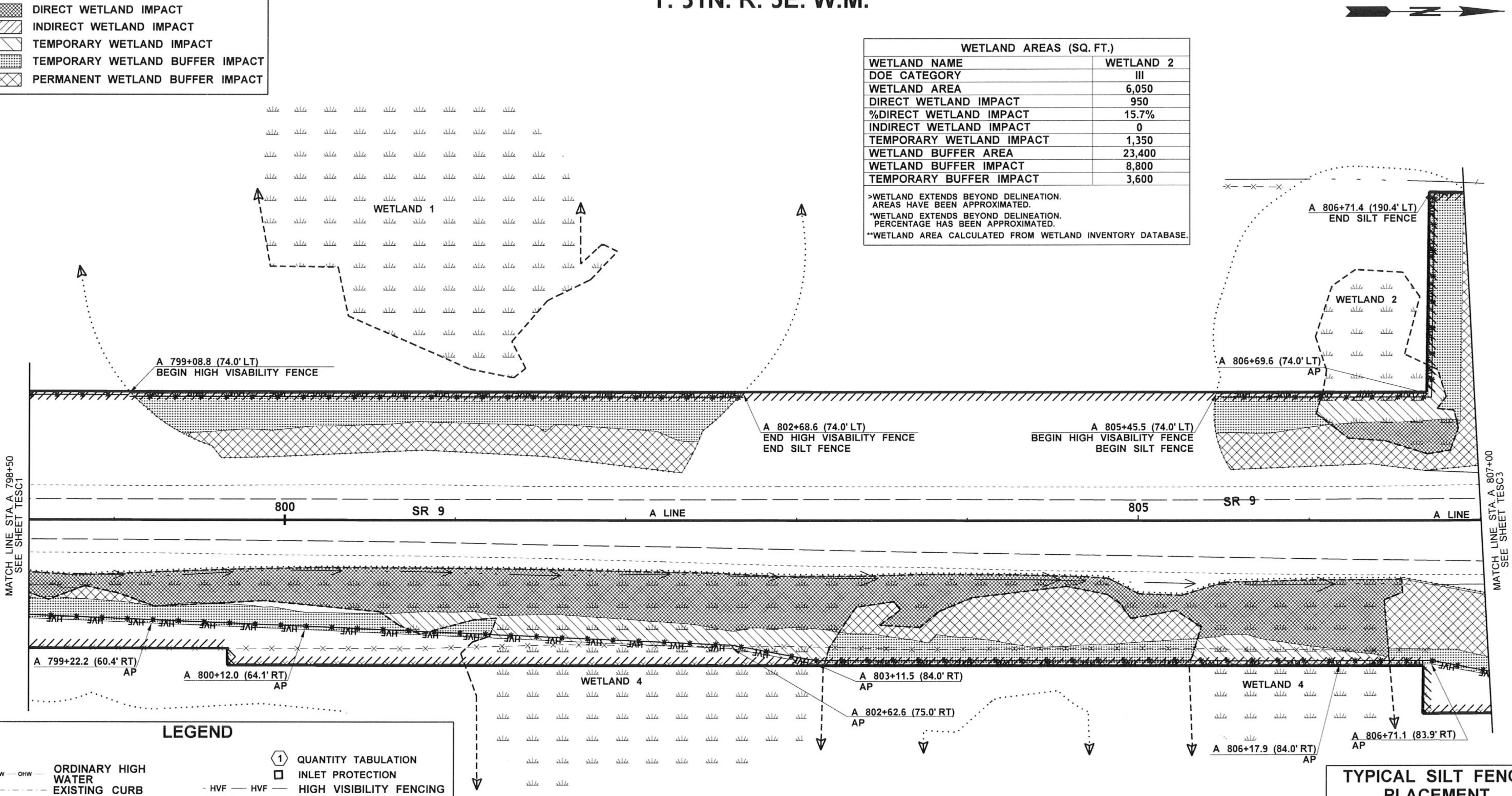
- ▩ DIRECT WETLAND IMPACT
- ▨ INDIRECT WETLAND IMPACT
- ▧ TEMPORARY WETLAND IMPACT
- ▦ TEMPORARY WETLAND BUFFER IMPACT
- ▩ PERMANENT WETLAND BUFFER IMPACT

WETLAND AREAS (SQ. FT.)	
WETLAND NAME	WETLAND 2
DOE CATEGORY	III
WETLAND AREA	6,050
DIRECT WETLAND IMPACT	950
%DIRECT WETLAND IMPACT	15.7%
INDIRECT WETLAND IMPACT	0
TEMPORARY WETLAND IMPACT	1,350
WETLAND BUFFER AREA	23,400
WETLAND BUFFER IMPACT	8,800
TEMPORARY BUFFER IMPACT	3,600

>WETLAND EXTENDS BEYOND DELINEATION. AREAS HAVE BEEN APPROXIMATED.

*WETLAND EXTENDS BEYOND DELINEATION. PERCENTAGE HAS BEEN APPROXIMATED.

**WETLAND AREA CALCULATED FROM WETLAND INVENTORY DATABASE.

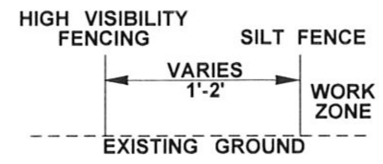


LEGEND

- ① QUANTITY TABULATION
- ORDINARY HIGH WATER
- INLET PROTECTION
- EXISTING CURB
- HIGH VISIBILITY FENCING
- EXISTING STOP BAR
- SILT FENCE
- EXISTING FENCE
- CHECK DAM
- EXISTING EDGE LINE
- WSDOT R/W
- EXISTING EDGE OF PAVEMENT
- WETLAND SYMBOL
- EXISTING STORM SEWER
- EXISTING EDGE OF SHOULDER
- EXISTING CULVERT
- EXISTING GUTTER FACE
- WETLAND BOUNDARY
- EXISTING CATCH BASIN
- WETLAND BUFFER
- EXISTING MAN HOLE
- EXISTING DITCH

0 30 60
SCALE IN FEET

TYPICAL SILT FENCE PLACEMENT



FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_TESC_PS.DGN
TIME	2:01:57 PM
DATE	3/22/2010
PLOTTED BY	solwolk
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

TEMPORARY EROSION CONTROL /
ENVIRONMENTL COMPLIANCE PLAN

Plot 2
PLAN REF NO
TESC2
SHEET
OF
SHEETS

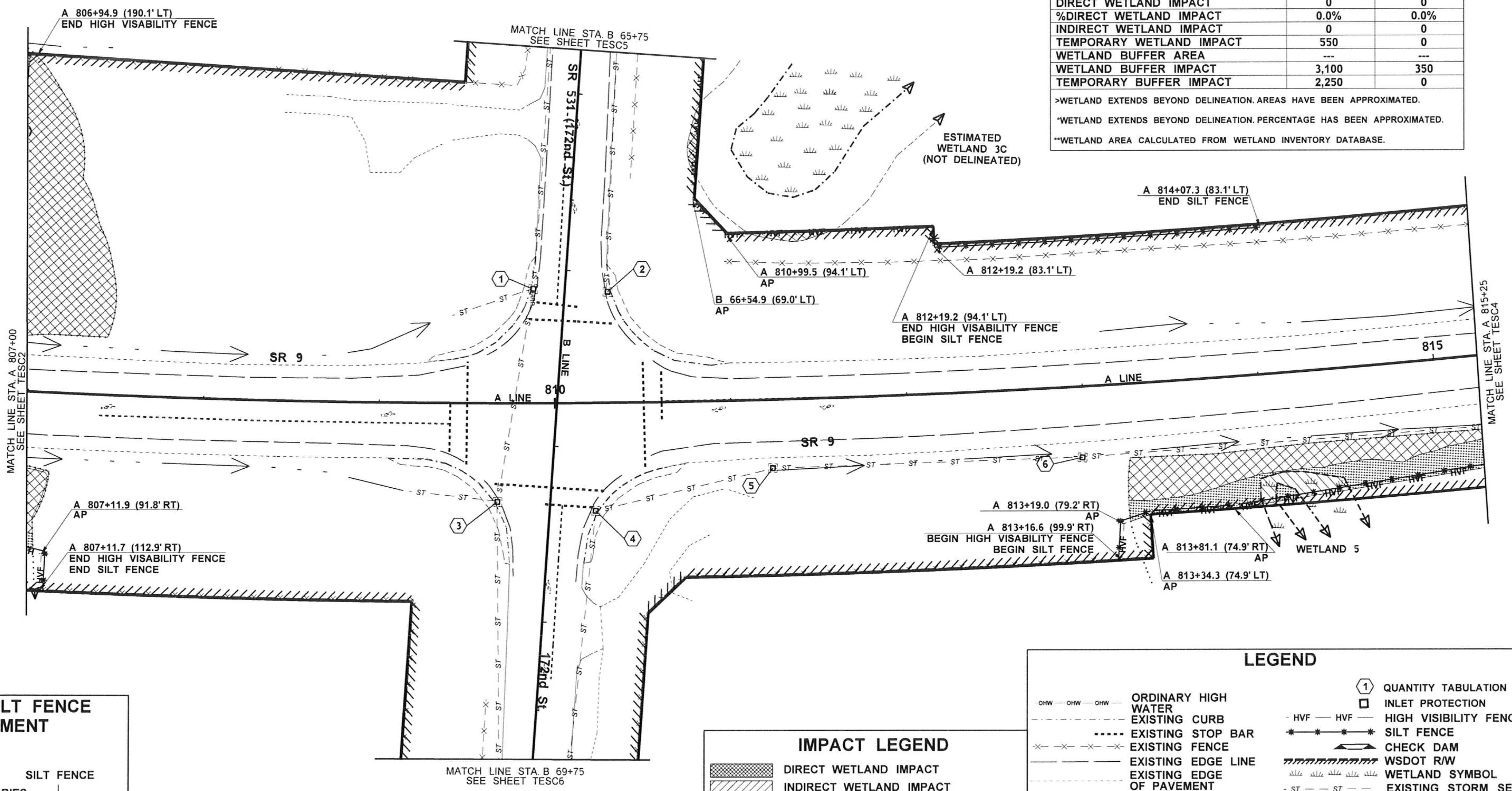
T. 31N. R. 5E. W.M.

WETLAND AREAS (SQ. FT.)		
WETLAND NAME	WETLAND 5	WETLAND 3C
DOE CATEGORY	II	III
WETLAND AREA	>13,100	>9000
DIRECT WETLAND IMPACT	0	0
%DIRECT WETLAND IMPACT	0.0%	0.0%
INDIRECT WETLAND IMPACT	0	0
TEMPORARY WETLAND IMPACT	550	0
WETLAND BUFFER AREA	---	---
WETLAND BUFFER IMPACT	3,100	350
TEMPORARY BUFFER IMPACT	2,250	0

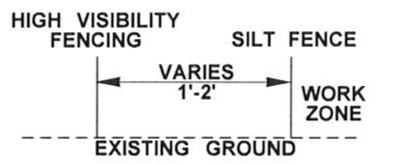
>WETLAND EXTENDS BEYOND DELINEATION. AREAS HAVE BEEN APPROXIMATED.

*WETLAND EXTENDS BEYOND DELINEATION. PERCENTAGE HAS BEEN APPROXIMATED.

**WETLAND AREA CALCULATED FROM WETLAND INVENTORY DATABASE.



TYPICAL SILT FENCE PLACEMENT



0 30 60
SCALE IN FEET

IMPACT LEGEND

▩	DIRECT WETLAND IMPACT
▨	INDIRECT WETLAND IMPACT
▧	TEMPORARY WETLAND IMPACT
▦	TEMPORARY WETLAND BUFFER IMPACT
▩	PERMANENT WETLAND BUFFER IMPACT

LEGEND

- OHW — OHW — OHW —	ORDINARY HIGH WATER	⟨1⟩	QUANTITY TABULATION
— · — · — · —	EXISTING CURB	□	INLET PROTECTION
▪▪▪▪▪	EXISTING STOP BAR	- HVF — HVF —	HIGH VISIBILITY FENCING
—×— —×— —×—	EXISTING FENCE	✱—✱—✱—✱	SILT FENCE
—— —— ——	EXISTING EDGE LINE	⏢	CHECK DAM
- - - - - - - -	EXISTING EDGE OF PAVEMENT	//////////	WSDOT R/W
- - - - - - - -	EXISTING EDGE OF SHOULDER	ᐃᐃ ᐃᐃ ᐃᐃ	WETLAND SYMBOL
— · — · — · —	EXISTING GUTTER FACE	- ST — — ST — —	EXISTING STORM SEWER
○	EXISTING CATCH BASIN	⌸	EXISTING CULVERT
○	EXISTING MAN HOLE	— — — — — —	WETLAND BOUNDARY
		···············	WETLAND BUFFER
		- - ←	EXISTING DITCH

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_TESC_PS.DGN				
TIME	2:02:00 PM				
DATE	3/22/2010				
PLOTTED BY	solwolk				
DESIGNED BY	M. GUNN				
ENTERED BY	K.SOLWOLD				
CHECKED BY	J. KORESKI				
PROJ. ENGR.	S.SPAHR				
REGIONAL ADM.	L. ENG	REVISION	DATE	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX
DATE

P.E. STAMP BOX
DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

TEMPORARY EROSION CONTROL /
ENVIRONMENTL COMPLIANCE PLAN

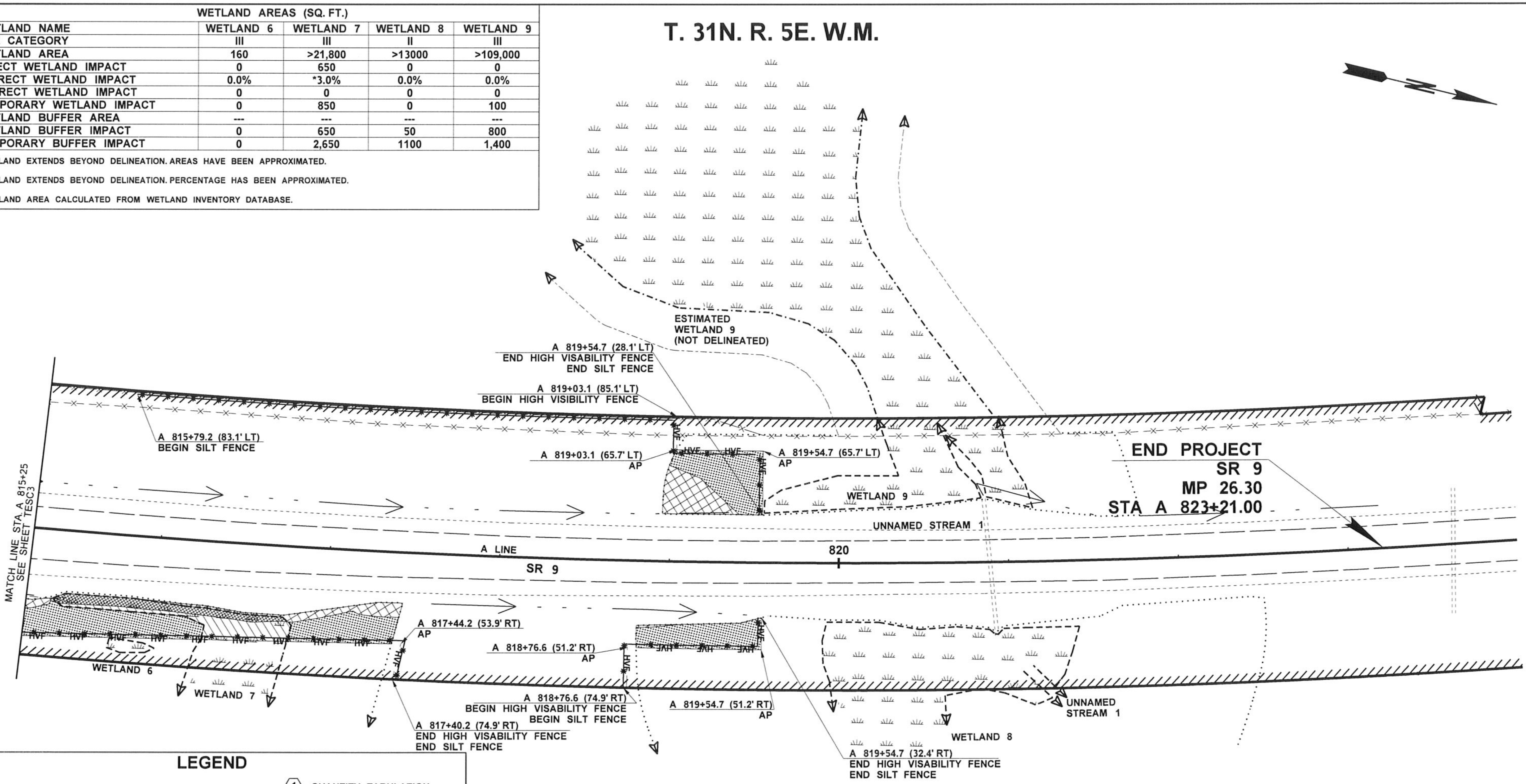
Plot 3
PLAN REF NO
TESC3
SHEET
OF
SHEETS

WETLAND AREAS (SQ. FT.)				
WETLAND NAME	WETLAND 6	WETLAND 7	WETLAND 8	WETLAND 9
DOE CATEGORY	III	III	II	III
WETLAND AREA	160	>21,800	>13000	>109,000
DIRECT WETLAND IMPACT	0	650	0	0
%DIRECT WETLAND IMPACT	0.0%	*3.0%	0.0%	0.0%
INDIRECT WETLAND IMPACT	0	0	0	0
TEMPORARY WETLAND IMPACT	0	850	0	100
WETLAND BUFFER AREA	---	---	---	---
WETLAND BUFFER IMPACT	0	650	50	800
TEMPORARY BUFFER IMPACT	0	2,650	1100	1,400

>WETLAND EXTENDS BEYOND DELINEATION. AREAS HAVE BEEN APPROXIMATED.

*WETLAND EXTENDS BEYOND DELINEATION. PERCENTAGE HAS BEEN APPROXIMATED.

**WETLAND AREA CALCULATED FROM WETLAND INVENTORY DATABASE.



LEGEND

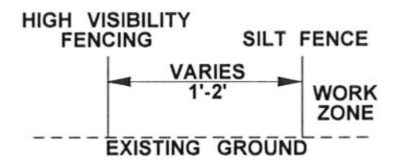
- OHW — OHW — OHW —	ORDINARY HIGH WATER
- · - · - · -	EXISTING CURB
- - - - -	EXISTING STOP BAR
-×- -×- -×-	EXISTING FENCE
——— ———	EXISTING EDGE LINE
- - - - - - -	EXISTING EDGE OF PAVEMENT
· · · · · · ·	EXISTING EDGE OF SHOULDER
— · — · — ·	EXISTING GUTTER FACE
◌	EXISTING CATCH BASIN
○	EXISTING MAN HOLE
①	QUANTITY TABULATION
□	INLET PROTECTION
- HVF — HVF —	HIGH VISIBILITY FENCING
-*-*-*-	SILT FENCE
⏢	CHECK DAM
////////	WSDOT R/W
ᐞᐞ ᐞᐞ ᐞᐞ	WETLAND SYMBOL
- ST — — ST — —	EXISTING STORM SEWER
- - - - -	EXISTING CULVERT
— — — — —	WETLAND BOUNDARY
· · · · · · · · ·	WETLAND BUFFER
- - ← ——	EXISTING DITCH

IMPACT LEGEND

▩	DIRECT WETLAND IMPACT
▨	INDIRECT WETLAND IMPACT
▧	TEMPORARY WETLAND IMPACT
▒	TEMPORARY WETLAND BUFFER IMPACT
⊠	PERMANENT WETLAND BUFFER IMPACT

0 30 60
SCALE IN FEET

TYPICAL SILT FENCE PLACEMENT



FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_TESC_PS.DGN
TIME	2:02:02 PM
DATE	3/22/2010
PLOTTED BY	solwolk
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

TEMPORARY EROSION CONTROL / ENVIRONMENTL COMPLIANCE PLAN

Plot 4
PLAN REF NO
TESC4
SHEET
OF
SHEETS

WETLAND AREAS (SQ. FT.)			
WETLAND NAME	WETLAND 3	WETLAND 3A	WETLAND 3B
DOE CATEGORY	IV	III	III
WETLAND AREA	755	>101,600	3,500
DIRECT WETLAND IMPACT	0	4,400	3,500
%DIRECT WETLAND IMPACT	0.0%	*4.3%	100%
INDIRECT WETLAND IMPACT	0	0	0
TEMPORARY WETLAND IMPACT	0	0	0
WETLAND BUFFER AREA	0	---	12,500
WETLAND BUFFER IMPACT	0	2,700	---
TEMPORARY BUFFER IMPACT	0	0	0

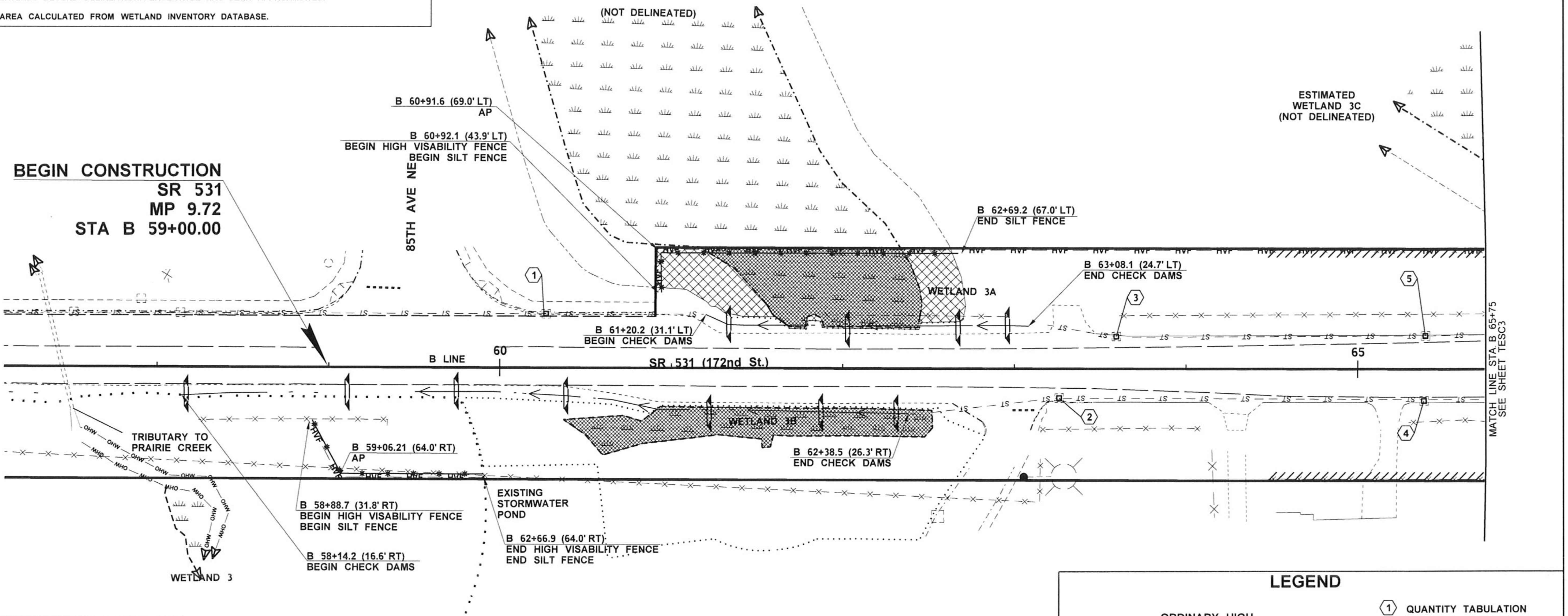
>WETLAND EXTENDS BEYOND DELINEATION. AREAS HAVE BEEN APPROXIMATED.

*WETLAND EXTENDS BEYOND DELINEATION. PERCENTAGE HAS BEEN APPROXIMATED.

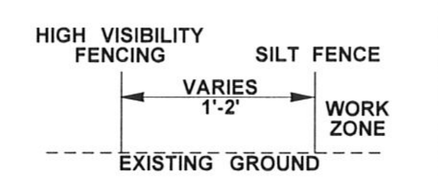
**WETLAND AREA CALCULATED FROM WETLAND INVENTORY DATABASE.

T. 31N. R. 5E. W.M.

N



TYPICAL SILT FENCE PLACEMENT



0 30 60
SCALE IN FEET

IMPACT LEGEND

▩	DIRECT WETLAND IMPACT
▨	INDIRECT WETLAND IMPACT
▧	TEMPORARY WETLAND IMPACT
▒	TEMPORARY WETLAND BUFFER IMPACT
▦	PERMANENT WETLAND BUFFER IMPACT

LEGEND

—OHW—OHW—OHW—	ORDINARY HIGH WATER	①	QUANTITY TABULATION
—·—·—	EXISTING CURB	☐	INLET PROTECTION
······	EXISTING STOP BAR	—HVF—HVF—	HIGH VISIBILITY FENCING
—×—×—×—	EXISTING FENCE	—*—*—*—	SILT FENCE
— — — —	EXISTING EDGE LINE		CHECK DAM
- - - - -	EXISTING EDGE OF PAVEMENT	////////	WSDOT R/W
·········	EXISTING EDGE OF SHOULDER	ᐤ ᐤ ᐤ	WETLAND SYMBOL
—·—·—	EXISTING GUTTER FACE	—ST—ST—	EXISTING STORM SEWER
○	EXISTING CATCH BASIN	- - - -	EXISTING CULVERT
○	EXISTING MAN HOLE	— — — —	WETLAND BOUNDARY
		············	WETLAND BUFFER
		- - ←	EXISTING DITCH

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_TESC_PS.DGN
TIME	2:02:04 PM
DATE	3/22/2010
PLOTTED BY	solwolk
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION | DATE | BY

REGION NO. 10 | STATE WASH | FED.AID PROJ.NO.

JOB NUMBER

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

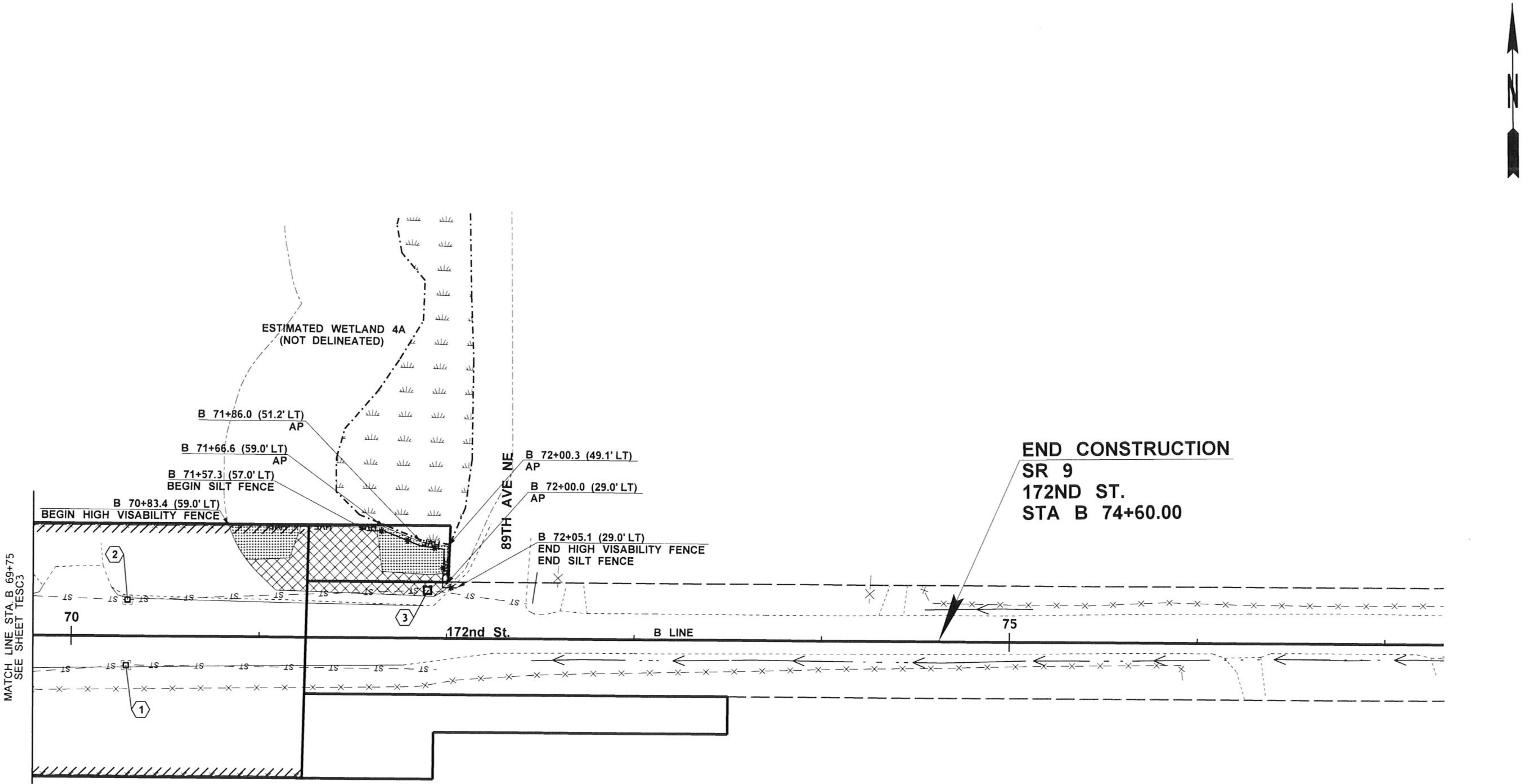
P.E. STAMP BOX DATE

Washington State
Department of Transportation

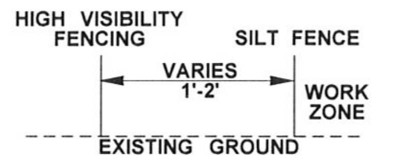
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

TEMPORARY EROSION CONTROL /
ENVIRONMENTL COMPLIANCE PLAN

Plot 5
PLAN REF NO
TESC5
SHEET
OF
SHEETS



TYPICAL SILT FENCE PLACEMENT



WETLAND AREAS (SQ. FT.)

WETLAND NAME	WETLAND 4A
DOE CATEGORY	III
WETLAND AREA	>2500
DIRECT WETLAND IMPACT	0
%DIRECT WETLAND IMPACT	0.0%
INDIRECT WETLAND IMPACT	0
TEMPORARY WETLAND IMPACT	0
WETLAND BUFFER AREA	---
WETLAND BUFFER IMPACT	2,300
TEMPORARY BUFFER IMPACT	1,250

>WETLAND EXTENDS BEYOND DELINEATION.
AREAS HAVE BEEN APPROXIMATED.

*WETLAND EXTENDS BEYOND DELINEATION.
PERCENTAGE HAS BEEN APPROXIMATED.

**WETLAND AREA CALCULATED FROM WETLAND INVENTORY DATABASE.

0 30 60
SCALE IN FEET

IMPACT LEGEND

▩	DIRECT WETLAND IMPACT
▨	INDIRECT WETLAND IMPACT
▧	TEMPORARY WETLAND IMPACT
░	TEMPORARY WETLAND BUFFER IMPACT
▦	PERMANENT WETLAND BUFFER IMPACT

LEGEND

OHW — OHW — OHW —	ORDINARY HIGH WATER
— · — · — · —	EXISTING CURB
▪▪▪▪▪	EXISTING STOP BAR
—×— —×— —×—	EXISTING FENCE
—— —— ——	EXISTING EDGE LINE
- - - - - - -	EXISTING EDGE OF PAVEMENT
- - - - - - -	EXISTING EDGE OF SHOULDER
— · — · — · —	EXISTING GUTTER FACE
○	EXISTING CATCH BASIN
○	EXISTING MAN HOLE
⟨1⟩	QUANTITY TABULATION
□	INLET PROTECTION
- HVF — HVF —	HIGH VISIBILITY FENCING
————*——*	SILT FENCE
⏢	CHECK DAM
//////////	WSDOT R/W
ᴡ ᴡ ᴡ	WETLAND SYMBOL
- ST — — ST — —	EXISTING STORM SEWER
⌸	EXISTING CULVERT
— — — — — —	WETLAND BOUNDARY
· · · · · · · ·	WETLAND BUFFER
- - ←	EXISTING DITCH

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_TESC_PS.DGN
TIME	2:02:05 PM
DATE	3/22/2010
PLOTTED BY	solwolk
DESIGNED BY	M.GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

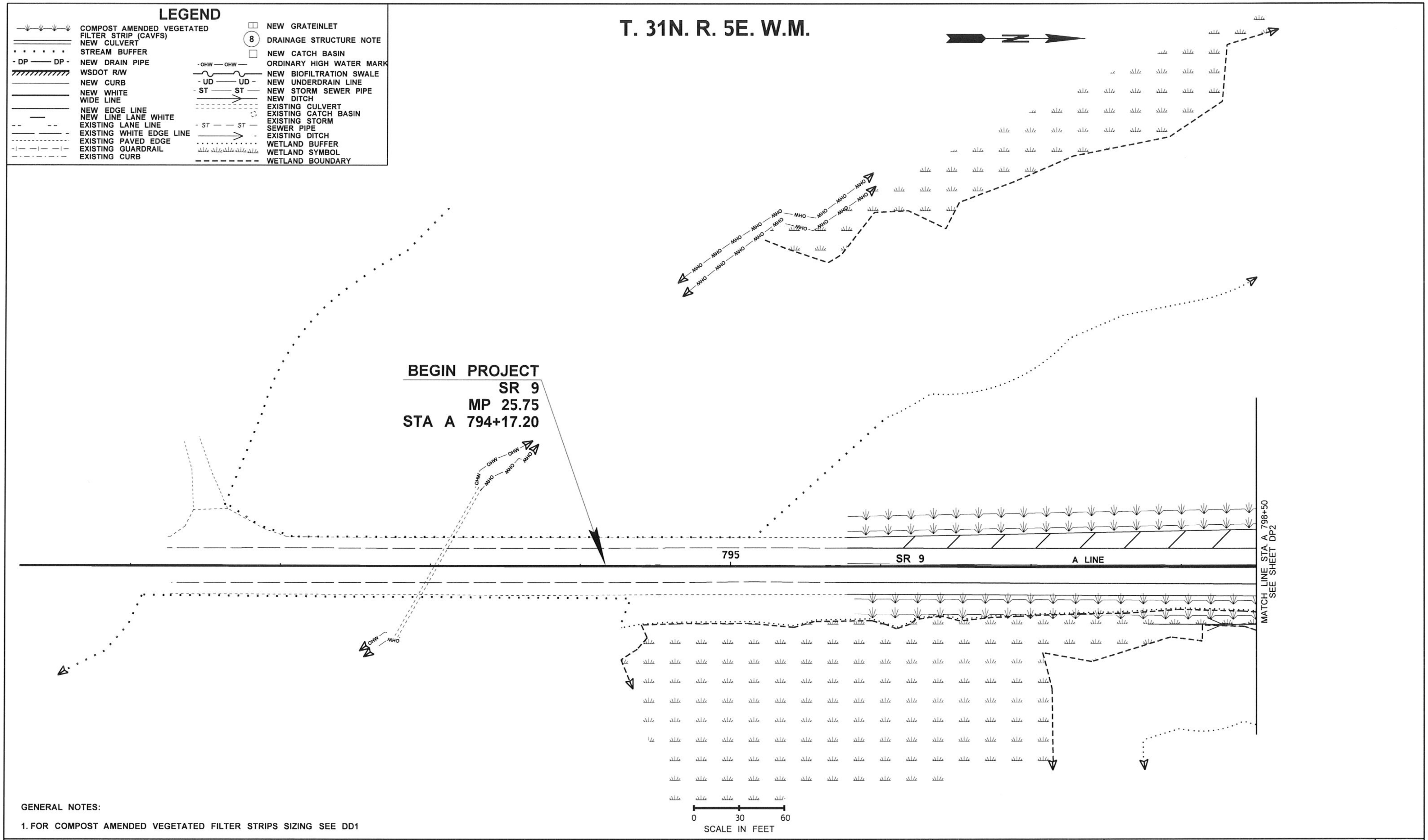
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

TEMPORARY EROSION CONTROL /
ENVIRONMENTL COMPLIANCE PLAN

Plot 6
PLAN REF NO
TESC6
SHEET
OF
SHEETS

LEGEND

—↓—↓—↓—↓	COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS)
═══	NEW CULVERT
• • • • • •	STREAM BUFFER
- DP —— DP -	NEW DRAIN PIPE
▨	WSDOT R/W
——	NEW CURB
━━━	NEW WHITE WIDE LINE
——	NEW EDGE LINE
—	NEW LINE LANE WHITE
-- --	EXISTING LANE LINE
—— —— -	EXISTING WHITE EDGE LINE
- - - - - -	EXISTING PAVED EDGE
-I— —I— —I—	EXISTING GUARDRAIL
—·—·—·—	EXISTING CURB
◫	NEW GRATEINLET
⑧	DRAINAGE STRUCTURE NOTE
☐	NEW CATCH BASIN
- OHW — OHW —	ORDINARY HIGH WATER MARK
—∩——∩—	NEW BIOFILTRATION SWALE
- UD —— UD -	NEW UNDERDRAIN LINE
- ST —— ST —	NEW STORM SEWER PIPE
——→	NEW DITCH
- - - - - -	EXISTING CULVERT
⛶	EXISTING CATCH BASIN
- ST — — ST —	EXISTING STORM SEWER PIPE
——→ -	EXISTING DITCH
. . . .	WETLAND BUFFER
ᵥᵥᵥ	WETLAND SYMBOL
— — — —	WETLAND BOUNDARY



GENERAL NOTES:

1. FOR COMPOST AMENDED VEGETATED FILTER STRIPS SIZING SEE DD1

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_DRAINAGE.dgn			
TIME	9:10:06 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M. GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

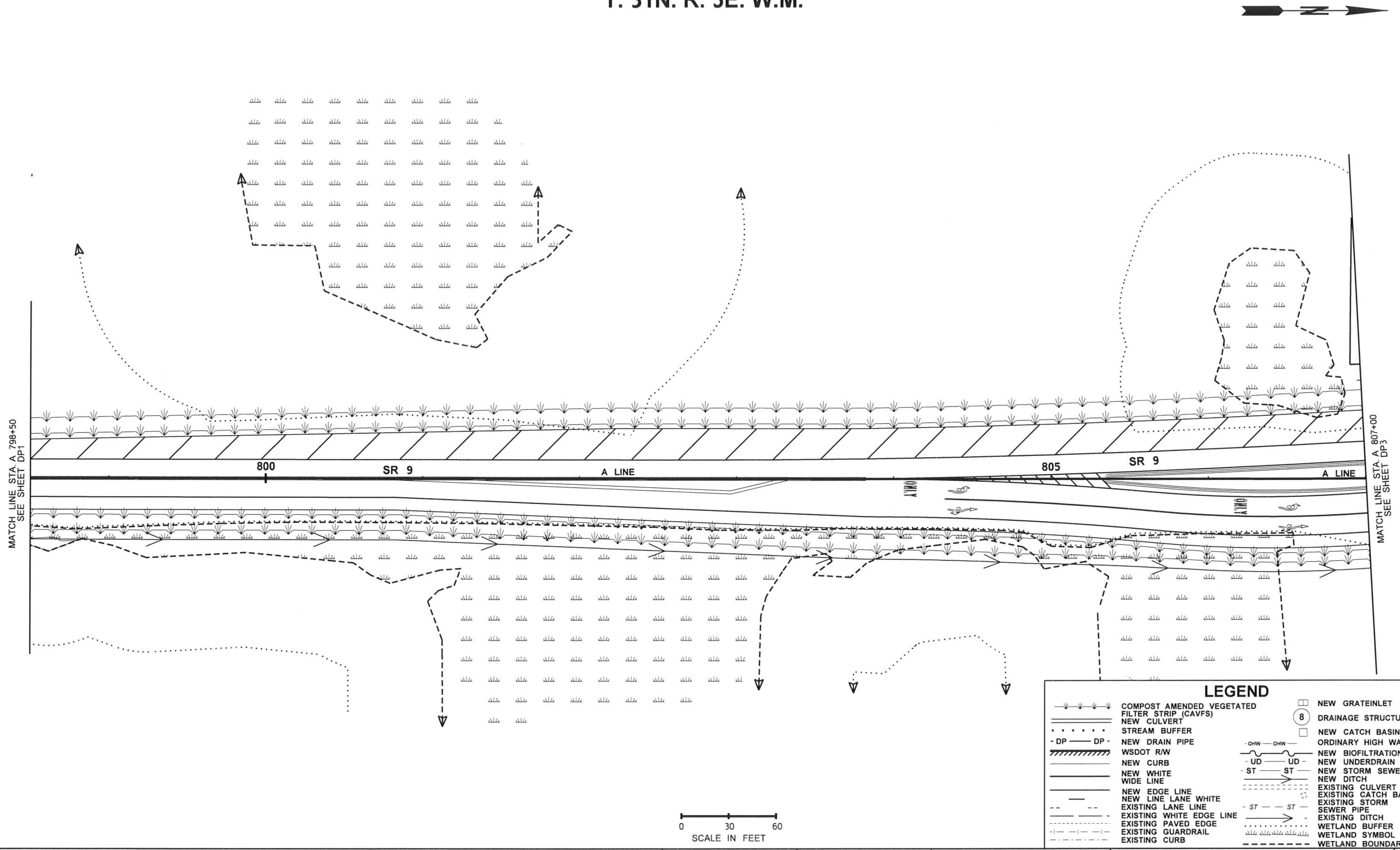
Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

DRAINAGE PLAN

Plot 1
PLAN REF NO
DP1
SHEET
OF
SHEETS

T. 31N. R. 5E. W.M.



LEGEND

—✓—✓—✓—✓	COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS)
═══	NEW CULVERT
· · · · · ·	STREAM BUFFER
- DP —— DP -	NEW DRAIN PIPE
▨	WSDOT R/W
——	NEW CURB
——	NEW WHITE WIDE LINE
——	NEW EDGE LINE
—	NEW LINE LANE WHITE
- - - -	EXISTING LANE LINE
—— —— -	EXISTING WHITE EDGE LINE
- - - - - -	EXISTING PAVED EDGE
-|— —|— —|—	EXISTING GUARDRAIL
—·—·—·—	EXISTING CURB
◫	NEW GRATEINLET
⑧	DRAINAGE STRUCTURE NOTE
☐	NEW CATCH BASIN
- OHW — OHW —	ORDINARY HIGH WATER MARK
—∩—∩—	NEW BIOFILTRATION SWALE
- UD —— UD -	NEW UNDERDRAIN LINE
- ST —— ST —	NEW STORM SEWER PIPE
——>	NEW DITCH
=========	EXISTING CULVERT
◌	EXISTING CATCH BASIN
- ST — — ST —	EXISTING STORM SEWER PIPE
——> -	EXISTING DITCH
· · · · · · ·	WETLAND BUFFER
ıılı ıılı ıılı	WETLAND SYMBOL
— — — — —	WETLAND BOUNDARY

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_DRAINAGE.dgn			
TIME	9:10:08 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M. GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

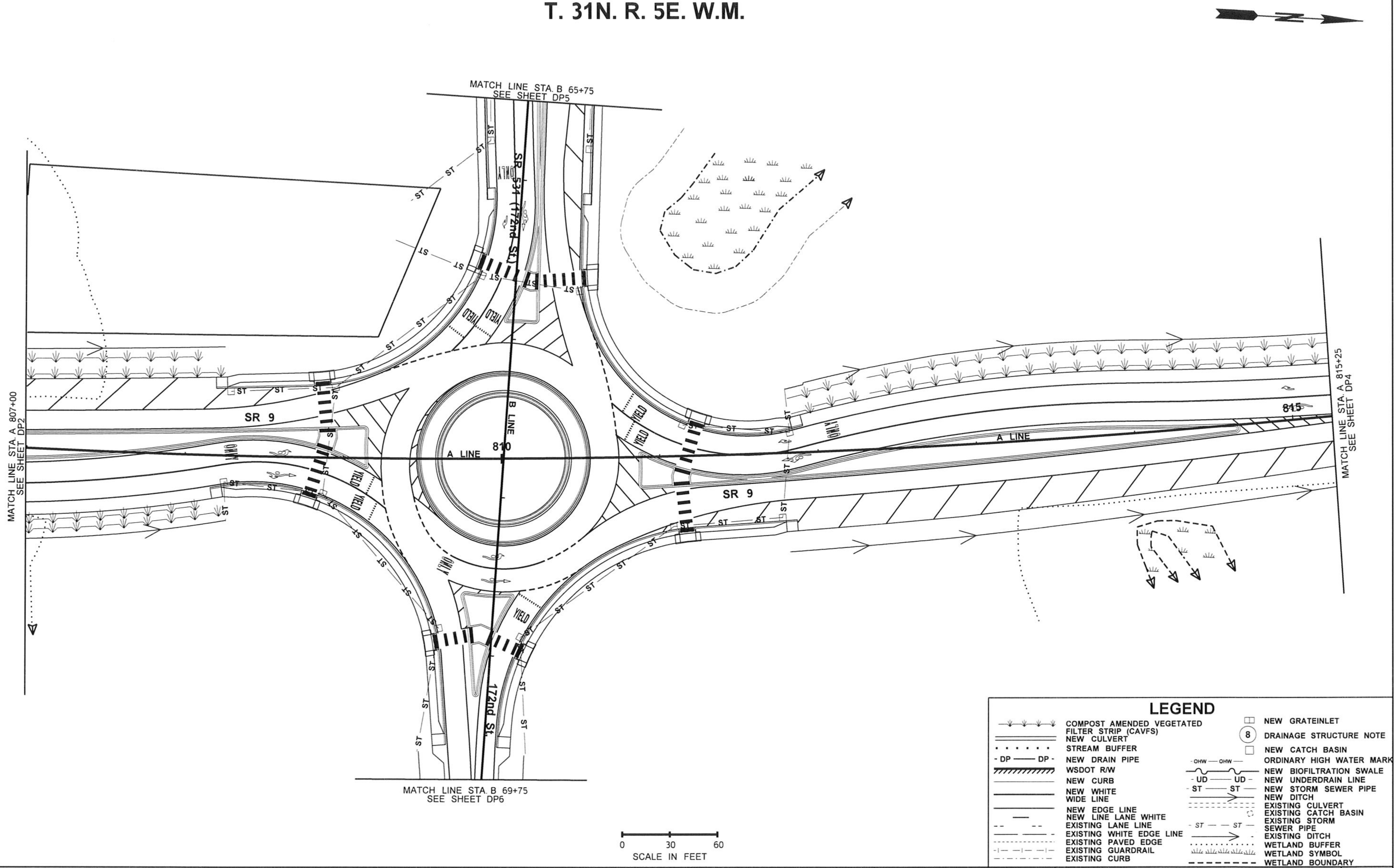
Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

DRAINAGE PLAN

Plot 2
PLAN REF NO
DP2
SHEET
OF
SHEETS

T. 31N. R. 5E. W.M.



LEGEND

—⩛—⩛—⩛—⩛	COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS)
═══	NEW CULVERT
· · · · · ·	STREAM BUFFER
- DP —— DP -	NEW DRAIN PIPE
▨▨▨	WSDOT R/W
——	NEW CURB
——	NEW WHITE WIDE LINE
——	NEW EDGE LINE
—	NEW LINE LANE WHITE
-- --	EXISTING LANE LINE
—— —— -	EXISTING WHITE EDGE LINE
- - - - - -	EXISTING PAVED EDGE
-|— —|— —|—	EXISTING GUARDRAIL
—·—·—·—	EXISTING CURB
◫	NEW GRATEINLET
⑧	DRAINAGE STRUCTURE NOTE
☐	NEW CATCH BASIN
- OHW — OHW —	ORDINARY HIGH WATER MARK
—∪——∪—	NEW BIOFILTRATION SWALE
- UD —— UD -	NEW UNDERDRAIN LINE
- ST —— ST —	NEW STORM SEWER PIPE
——→——	NEW DITCH
= = = = =	EXISTING CULVERT
⬚	EXISTING CATCH BASIN
- *ST* — — *ST* —	EXISTING STORM SEWER PIPE
——→	EXISTING DITCH
· · · · · · · ·	WETLAND BUFFER
⩛⩛⩛⩛	WETLAND SYMBOL
— — — — —	WETLAND BOUNDARY

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_DRAINAGE.dgn			
TIME	9:10:09 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M. GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

DRAINAGE PLAN

Plot 3

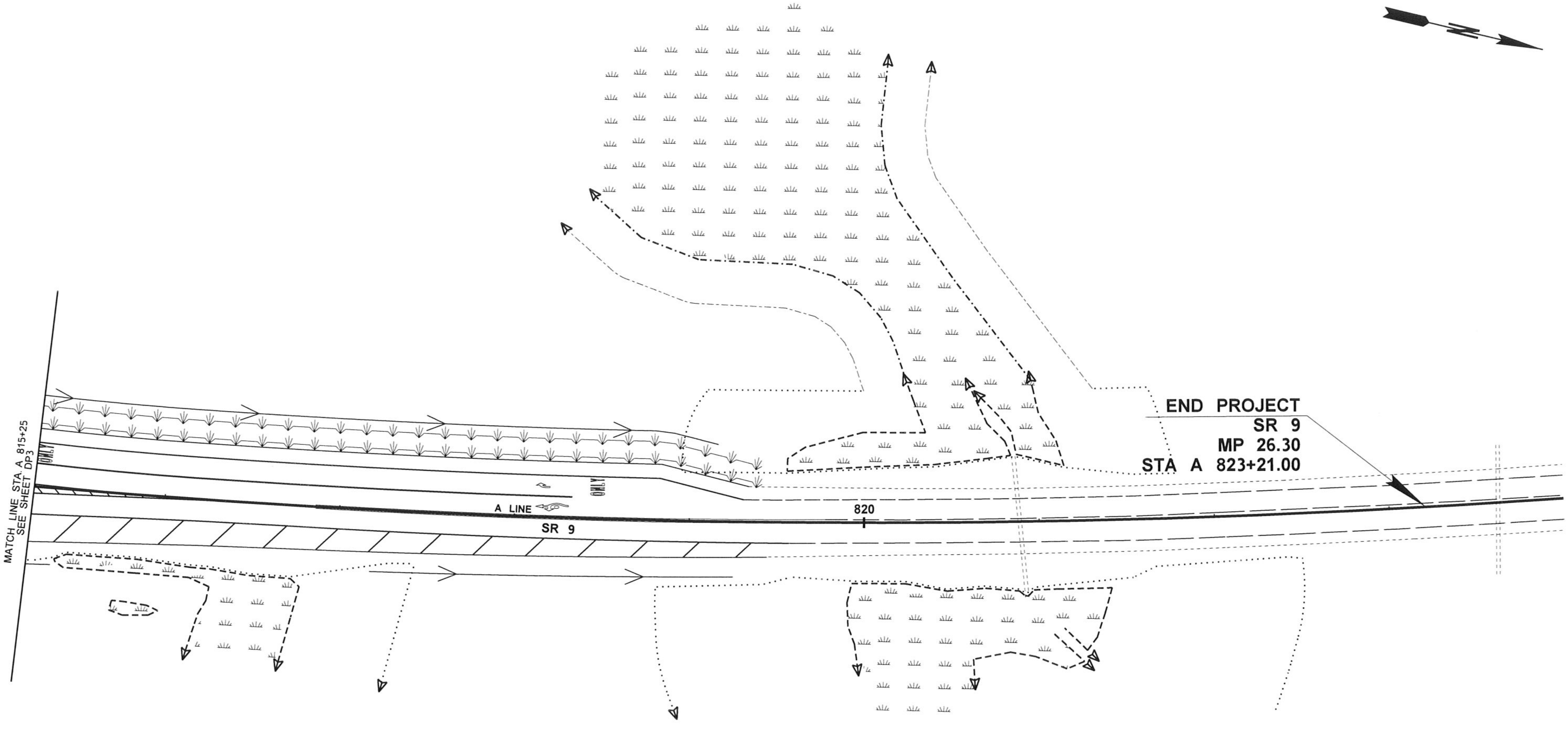
PLAN REF NO
DP3

SHEET

OF

SHEETS

T. 31N. R. 5E. W.M.



0 30 60
SCALE IN FEET

LEGEND

- COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS)
- NEW CULVERT
- STREAM BUFFER
- - DP —— DP - NEW DRAIN PIPE
- WSDOT R/W
- NEW CURB
- NEW WHITE WIDE LINE
- NEW EDGE LINE
- NEW LINE LANE WHITE
- EXISTING LANE LINE
- EXISTING WHITE EDGE LINE
- EXISTING PAVED EDGE
- EXISTING GUARDRAIL
- EXISTING CURB
- NEW GRATEINLET
- ⑧ DRAINAGE STRUCTURE NOTE
- ☐ NEW CATCH BASIN
- - OHW — OHW — ORDINARY HIGH WATER MARK
- NEW BIOFILTRATION SWALE
- - UD —— UD - NEW UNDERDRAIN LINE
- - ST —— ST — NEW STORM SEWER PIPE
- NEW DITCH
- EXISTING CULVERT
- EXISTING CATCH BASIN
- - ST — — ST — EXISTING STORM SEWER PIPE
- EXISTING DITCH
- WETLAND BUFFER
- WETLAND SYMBOL
- WETLAND BOUNDARY

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_DRAINAGE.dgn			
TIME	9:10:10 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M. GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.	LOCATION NO.	

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

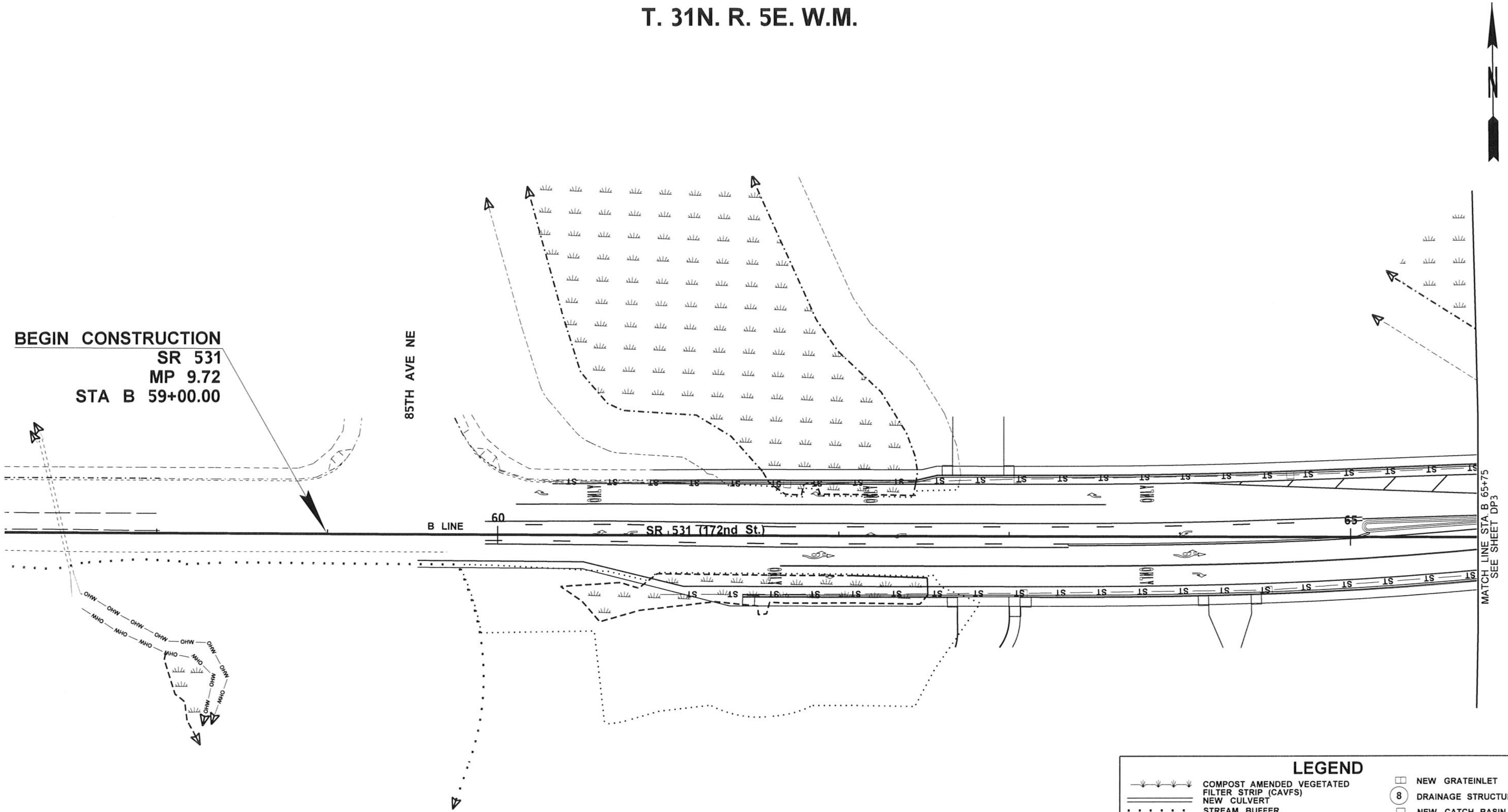
Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

DRAINAGE PLAN

Plot 4
PLAN REF NO
DP4
SHEET
OF
SHEETS

T. 31N. R. 5E. W.M.



0 30 60
SCALE IN FEET

LEGEND

—↓—↓—↓—↓—	COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS)	◫	NEW GRATEINLET
═══	NEW CULVERT	(8)	DRAINAGE STRUCTURE NOTE
· · · · · ·	STREAM BUFFER	□	NEW CATCH BASIN
- DP —— DP -	NEW DRAIN PIPE	- OHW — OHW —	ORDINARY HIGH WATER MARK
▨	WSDOT R/W		NEW BIOFILTRATION SWALE
——	NEW CURB	- UD —— UD -	NEW UNDERDRAIN LINE
——	NEW WHITE WIDE LINE	- ST —— ST —	NEW STORM SEWER PIPE
——	NEW EDGE LINE	——>	NEW DITCH
—	NEW LINE LANE WHITE	- - - - -	EXISTING CULVERT
-- --	EXISTING LANE LINE		EXISTING CATCH BASIN
—— —— -	EXISTING WHITE EDGE LINE	- ST — — ST —	EXISTING STORM SEWER PIPE
- - - - - -	EXISTING PAVED EDGE	——> -	EXISTING DITCH
-|— —|— —|—	EXISTING GUARDRAIL	· · · · · · ·	WETLAND BUFFER
—·—·—·—	EXISTING CURB		WETLAND SYMBOL
		— — — — —	WETLAND BOUNDARY

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_DRAINAGE.dgn			
TIME	9:10:11 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M. GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

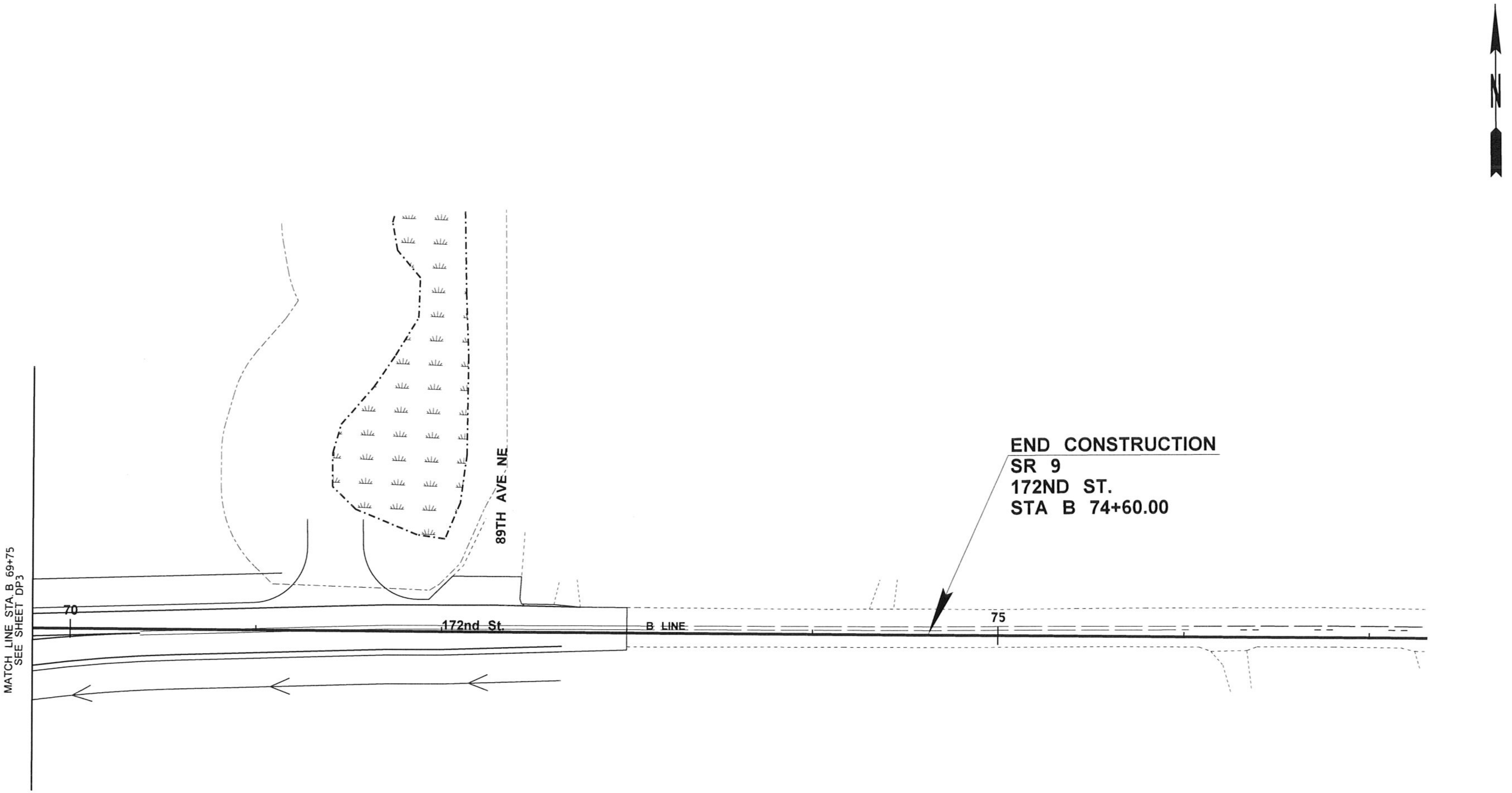
P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

DRAINAGE PLAN

Plot 5
PLAN REF NO
DP5
SHEET
OF
SHEETS



0 30 60
SCALE IN FEET

LEGEND

—ᴪ—ᴪ—ᴪ—ᴪ	COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS)
═══════	NEW CULVERT
· · · · · ·	STREAM BUFFER
- DP —— DP -	NEW DRAIN PIPE
▨▨▨▨▨▨	WSDOT R/W
———	NEW CURB
━━━	NEW WHITE WIDE LINE
———	NEW EDGE LINE
—	NEW LINE LANE WHITE
- - - -	EXISTING LANE LINE
—— —— -	EXISTING WHITE EDGE LINE
- - - - - - - -	EXISTING PAVED EDGE
-|— —|— —|—	EXISTING GUARDRAIL
—·—·—·—	EXISTING CURB
◫	NEW GRATEINLET
⑧	DRAINAGE STRUCTURE NOTE
☐	NEW CATCH BASIN
- OHW — OHW —	ORDINARY HIGH WATER MARK
—∿——∿—	NEW BIOFILTRATION SWALE
- UD —— UD -	NEW UNDERDRAIN LINE
- ST —— ST —	NEW STORM SEWER PIPE
——→——	NEW DITCH
=========	EXISTING CULVERT
⬚	EXISTING CATCH BASIN
- ST — — ST —	EXISTING STORM SEWER PIPE
——→ -	EXISTING DITCH
· · · · · · · · · ·	WETLAND BUFFER
ᴪᴪᴪᴪᴪ	WETLAND SYMBOL
— — — — — —	WETLAND BOUNDARY

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_DRAINAGE.dgn			
TIME	9:10:12 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M.GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J.KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L.ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

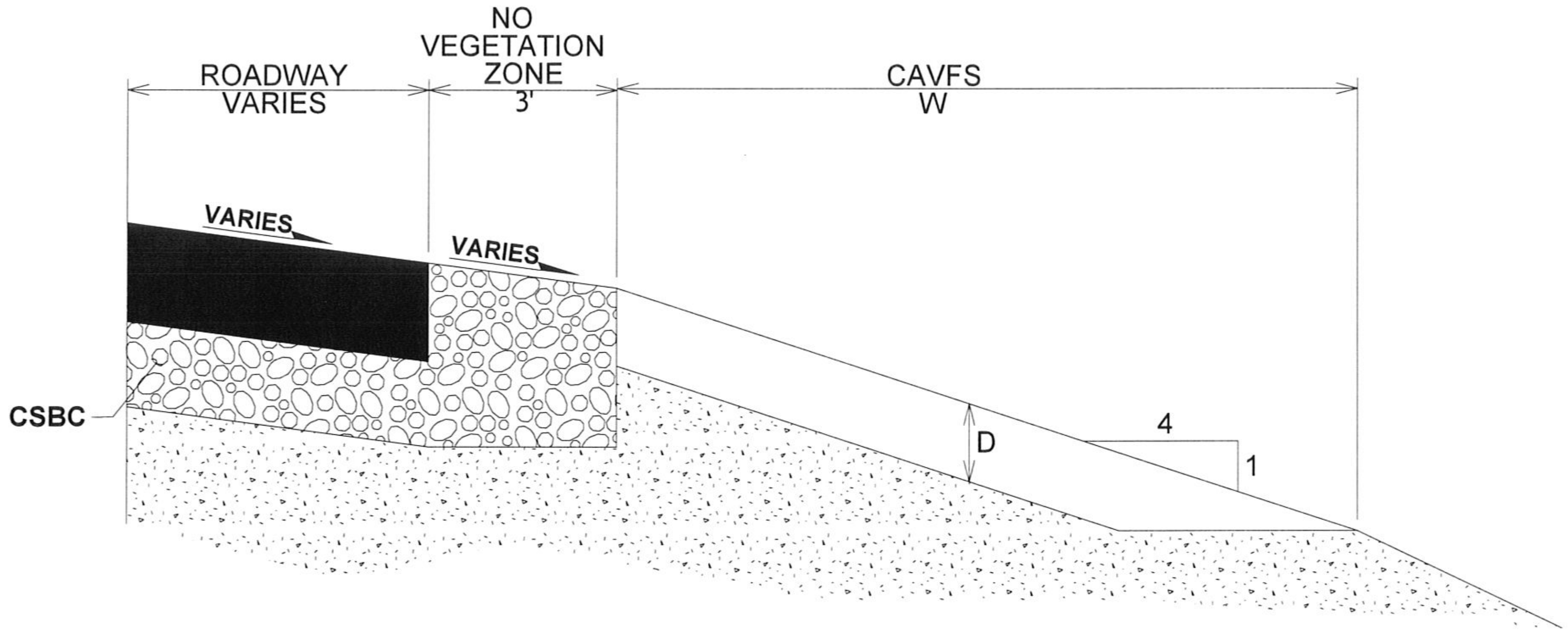
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

DRAINAGE PLAN

Plot 6
PLAN REF NO
DP6
SHEET
OF
SHEETS



COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS)
N.T.S

GENERAL NOTES:

1. FOR ROADWAY DETAILS SEE RS1-RS6.

STATION	W(FT)	D(IN)
A 795+77.7 TO A 808+18.2 (LT)	10.0	-
A 795+77.7 TO A 804+86.0 (RT	10.0	-
A 804+86.0 TO A 805+86.0 (RT)	6.0 - 10.0	-
A 805+86.0 TO A 808+17.6 (RT)	6.0	-
A 811+89.3 TO A 819+33.8 (LT)	10.0	-

FILE NAME N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_DRAINAGE_DETAIL.dgn
TIME 9:20:41 AM
DATE 3/24/2010
PLOTTED BY gunnm
DESIGNED BY M. GUNN
ENTERED BY K.SOLWOLD
CHECKED BY J. KORESKI
PROJ. ENGR. S. SPAHR
REGIONAL ADM. L. ENG

REVISION DATE BY

REGION NO. 10
STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

P.E. STAMP BOX DATE

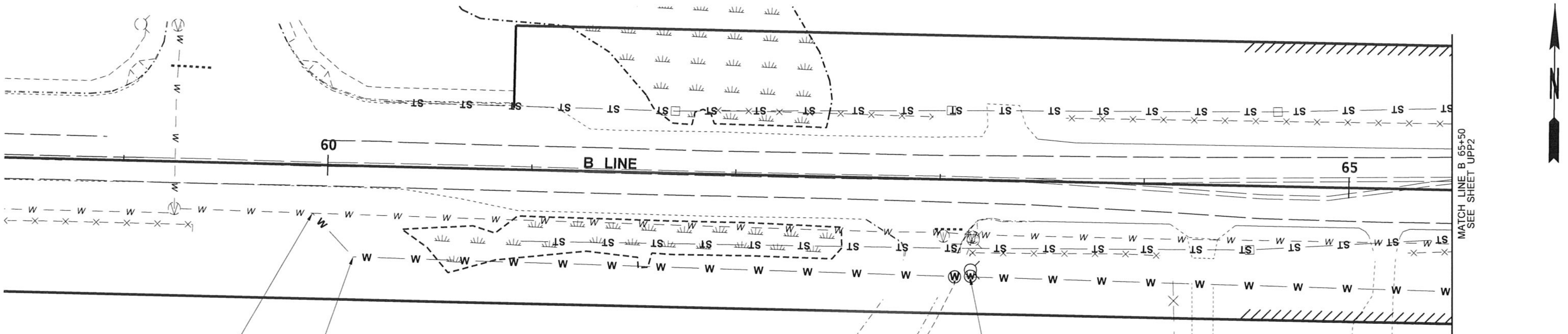
P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531 / 172ND ST NE
INTERSECTION IMPROVEMENTS

DRAINAGE DETAIL

Plot 1
PLAN REF NO
DD1
SHEET
OF
SHEETS



B 59+93.1 (23.5' RT)
CONNECT TO EXISTING 12" D.I. WATERMAIN
1-12" 45° BEND, MJxMJ
CONC. THRUST BLOCKING

B 60+13.5 (44.2' RT)
1-12" 45° BEND, MJxMJ
1-16"X12" REDUCER, MJxMJ
CONC. THRUST BLOCKING

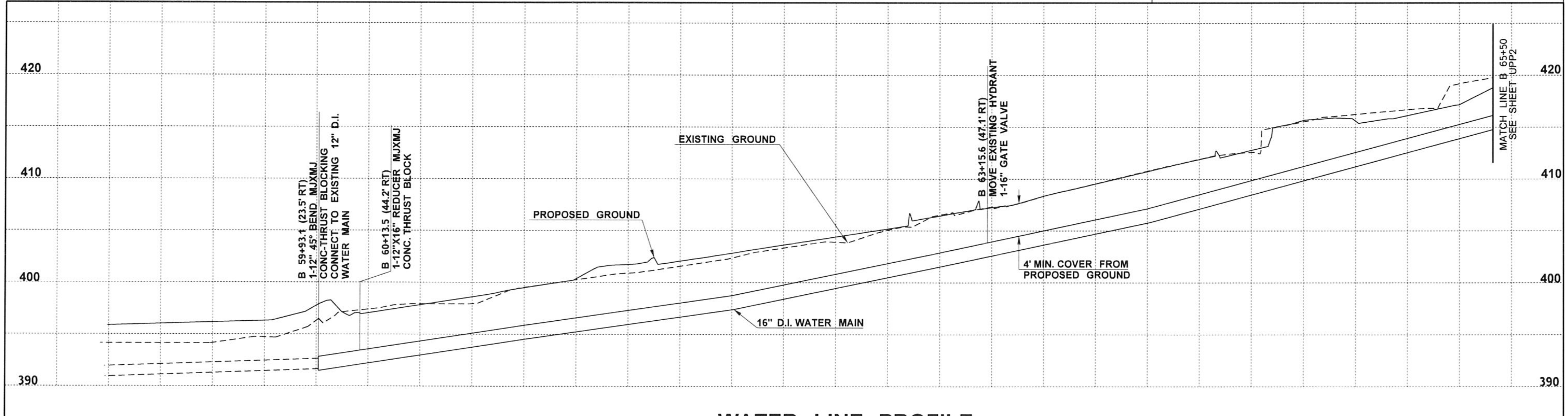
B 63+15.6 (47.1' RT)
MOVE EXISTING HYDRANT
1-16" GATE VALVE

LEGEND

ψ	WETLAND SYMBOL	— — — — — —	WETLAND BOUNDARY
□	NEW CATCH BASIN	- W — — W —	EXISTING WATER LINE
Q	NEW FIRE HYDRANT	- W —— W —	NEW WATERLINE
◌	EXISTING FIRE HYDRANT	- ST —— ST —	NEW SANITARY SEWER LINE
Ⓦ	NEW WATER VALVE BOX	━━━━	EXISTING WSDOT R/W
⊘	EXISTING WATER VALVE BOX	═══ ═══	EXISTING YELLOW CENTERLINE
		—×— —×— —×—	EXISTING FENCE
		- - - - - - -	EXISTING PAVED SHOULDER
		—— —— ——	EXISTING LANE EDGE

0 25 50
SCALE IN FEET

WATER LINE PLAN VIEW



B 59+93.1 (23.5' RT)
1-12" 45° BEND MJXMJ
CONC-THRUST BLOCKING
CONNECT TO EXISTING 12" D.I.
WATER MAIN

B 60+13.5 (44.2' RT)
1-12"X16" REDUCER MJXMJ
CONC. THRUST BLOCK

EXISTING GROUND

PROPOSED GROUND

B 63+15.6 (47.1' RT)
MOVE EXISTING HYDRANT
1-16" GATE VALVE

4' MIN. COVER FROM
PROPOSED GROUND

16" D.I. WATER MAIN

WATER LINE PROFILE

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_UT.dgn				
TIME	11:24:43 AM				
DATE	3/24/2010				
PLOTTED BY	lamaymp				
DESIGNED BY	M. LAMAY				
ENTERED BY	A. MUCHONEY				
CHECKED BY	J. KORESKI				
PROJ. ENGR.	S. SPAHR				
REGIONAL ADM.	L. ENG	REVISION	DATE	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

SHANE MARK SPAHR
40425

DATE
P.E. STAMP BOX

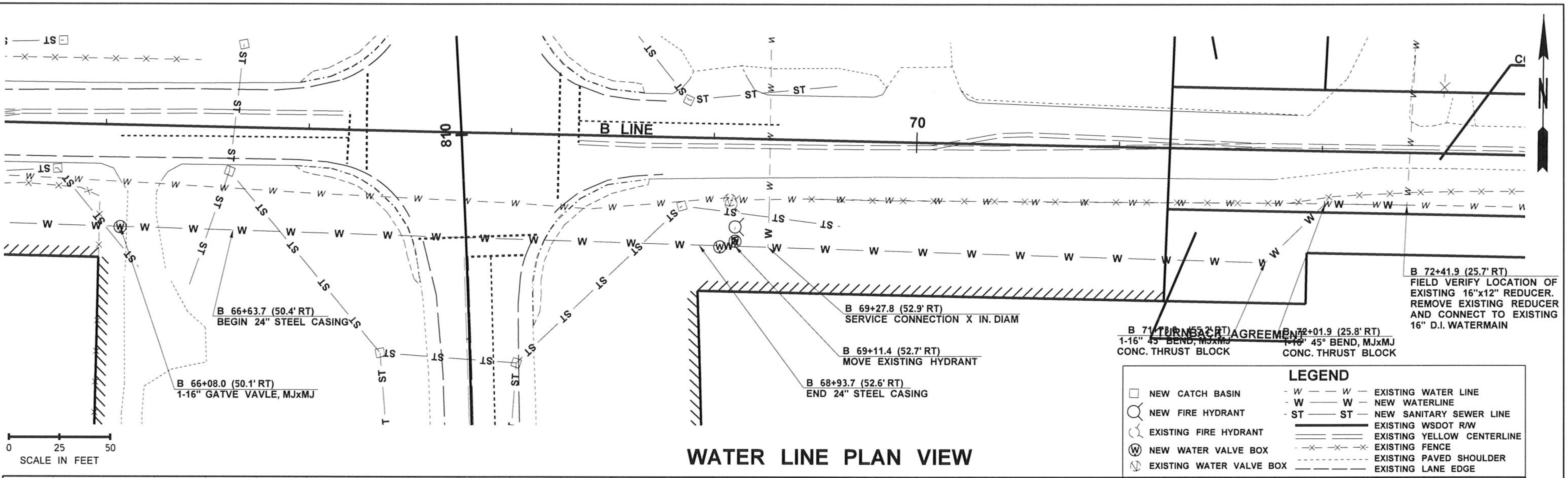
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

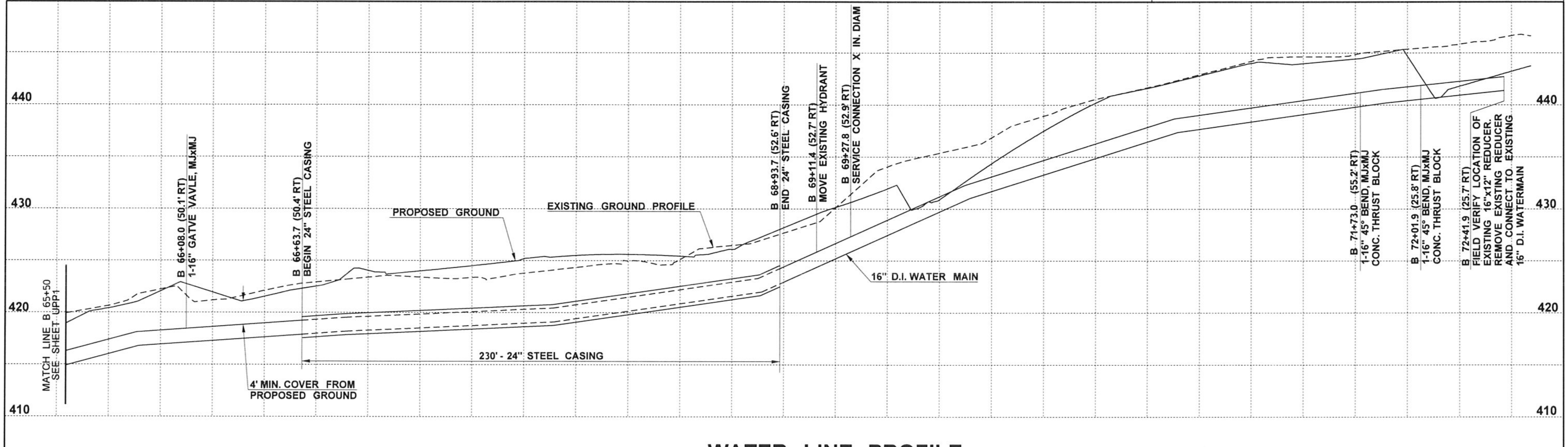
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

UTILITY PLAN / PROFILE

Plot 1
PLAN REF. NO.
UPP1
SHEET
OF
SHEETS



WATER LINE PLAN VIEW



WATER LINE PROFILE

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_UT.dgn
TIME	11:24:46 AM
DATE	3/24/2010
PLOTTED BY	lamaymp
DESIGNED BY	M. LAMAY
ENTERED BY	A. MUCHONEY
CHECKED BY	J. KORESKI
PROJ. ENGR.	S. SPAHR
REGIONAL ADM.	L. ENG

REVISION DATE BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO. LOCATION NO.

SHANE MARK SPAHR
40425

DATE
P.E. STAMP BOX

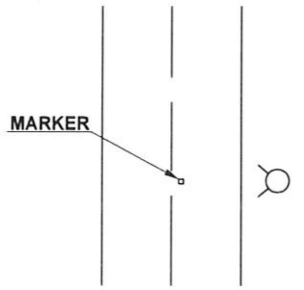
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

UTILITY PLAN / PROFILE

Plot 2
PLAN REF. NO.
UPP2
SHEET
OF
SHEETS

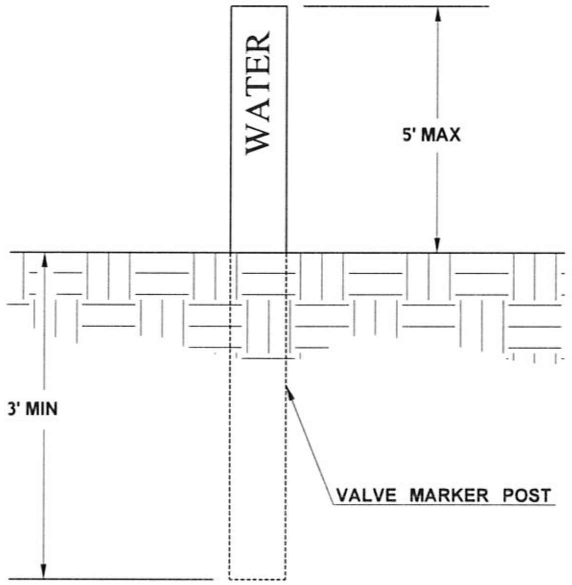


TWO LANE ROAD

OFFSET MARKER TO INDICATE WHICH SIDE OF STREET HYDRANT IS ON. MARKER TO BE PLACED 4" TO 6" OFF OF CENTERLINE

NOTE:

1. MARKER TYPE 88 AB STIMSONITE TWO WAY (BLUE) OR APPROVED EQUIVALENT. PAYMENT FOR MARKER TO BE PAID AS PART OF HYDRANT ASSEMBLY.

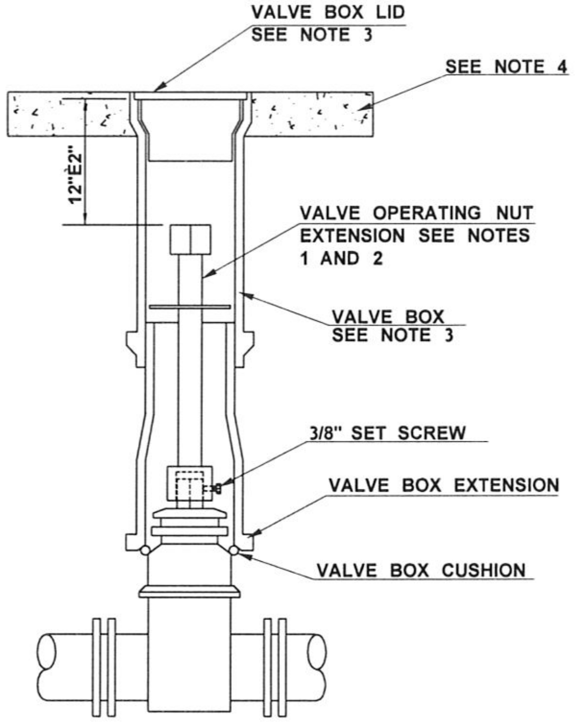


NOTES:

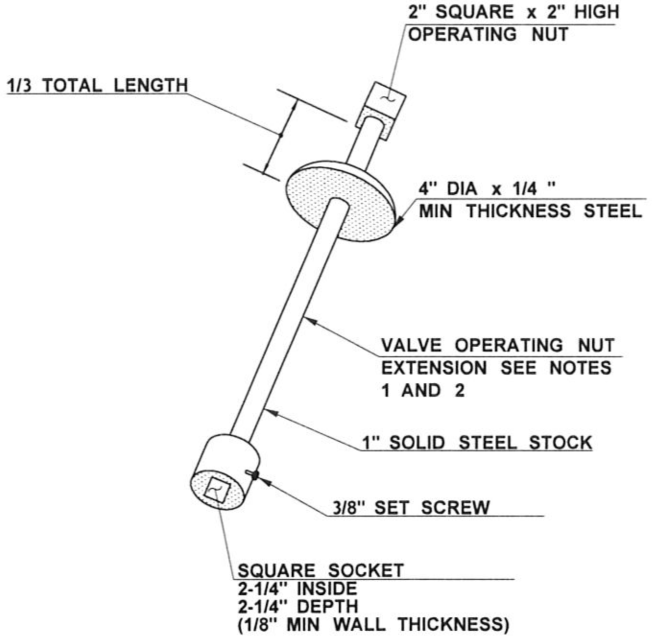
1. CARSONITE PLASTIC POST MARKER, BLUE, LABELED "WATER".

2. VALVE MARKER POSTS SHALL BE INSTALLED FOR ALL VALVES LOCATED IN UNPAVED AREAS. VALVE MARKER POSTS SHALL BE SET AS DIRECTED BY THE PUBLIC WORKS INSPECTOR IN A SAFE AND REASONABLY CONSPICUOUS LOCATION.

3. VALVE MARKER POSTS MAY NOT BE REQUIRED FOR AUXILIARY HYDRANT VALVES.



VALVE BOX AND EXTENSION



VALVE OPERATING NUT EXTENSION

NOTES:

1. VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN THREE (3) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF ONE (1) FOOT LONG. ONLY ONE EXTENSION WILL BE ALLOWED PER VALVE.

2. ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO (2) COATS OF METAL PAINT.

3. VALVE BOXES SHALL BE CAST IRON, TWO PIECE UNITS, DESIGNED WITH DEEP SKIRT (2") LIDS W/LUGS, EQUAL TO "RICH NO. 940" AS MANUFACTURED BY RICH OR SATHER.

4. 4" THICK CONCRETE PAD AROUND VALVE BOXES OUTSIDE OF PAVED AREAS. 2'x2' SQUARE AROUND SINGLE VALVE BOXES AND 4'x4' AROUND MULTIPLE VALVE BOXES.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_UT.dgn			
TIME	11:24:48 AM			
DATE	3/24/2010			
PLOTTED BY	lamaymp			
DESIGNED BY	M. LAMAY			
ENTERED BY	A. MUCHONEY			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S. SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO. 10
STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

SHANE MARK SPAHR
40425

DATE
P.E. STAMP BOX

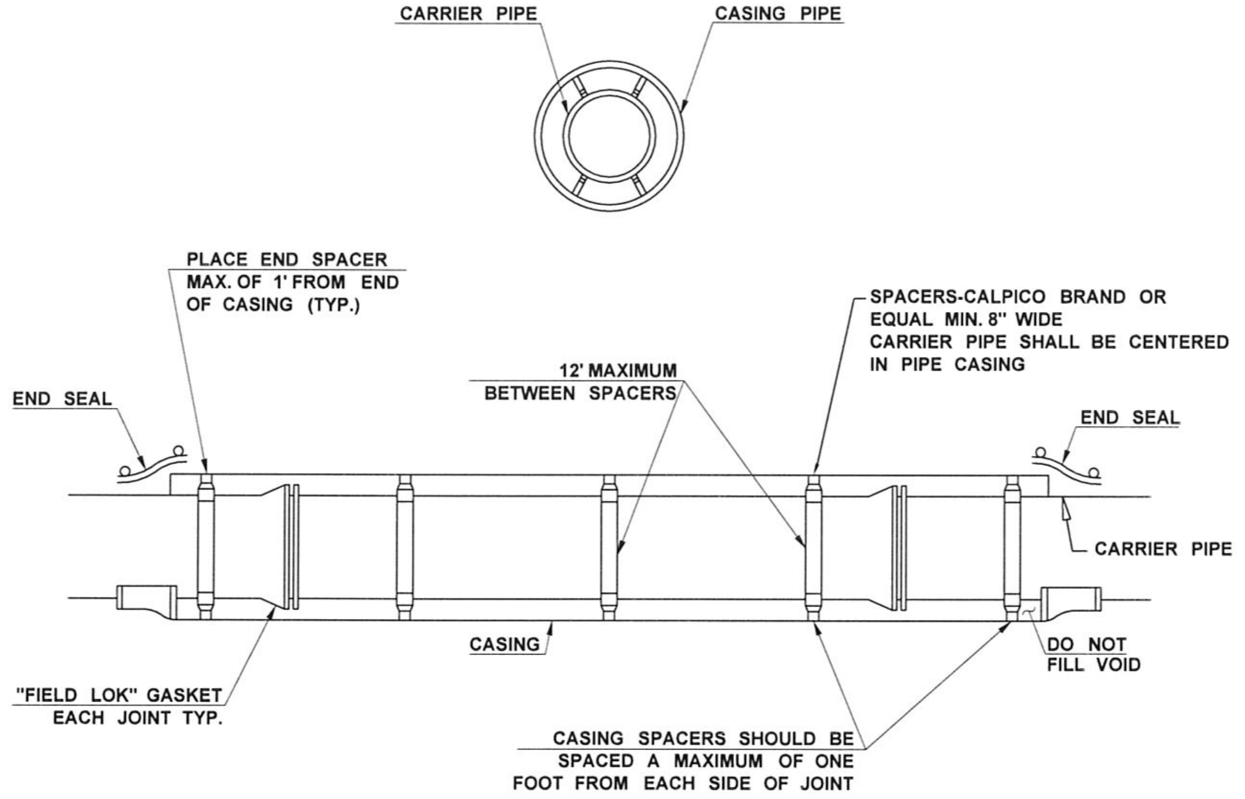
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

UTILITY DETAILS

Plot 3
PLAN REF NO
UD1
SHEET
OF
SHEETS

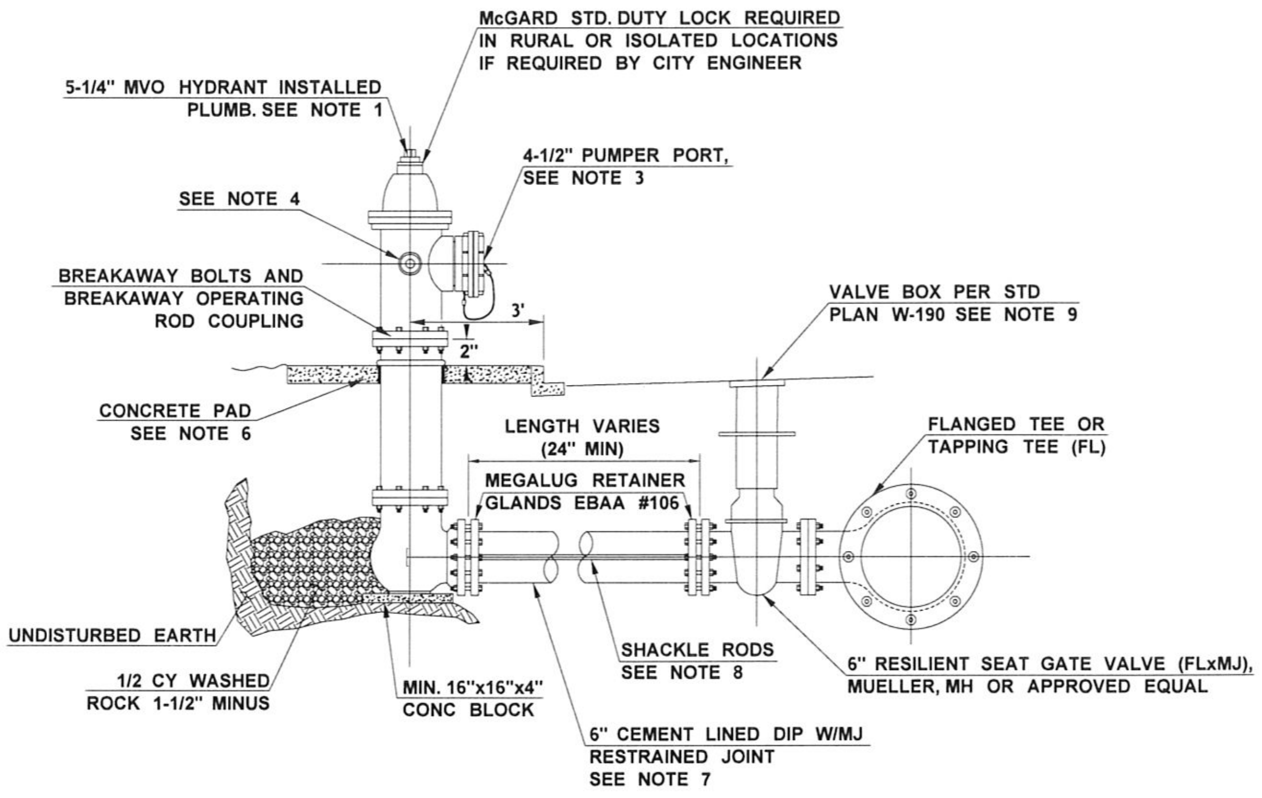


NOTES:

1. ANY VARIATION TO THIS DETAIL SHALL BE REVIEWED AND APPROVED BY CITY ENGINEER.

2. CASING SHALL BE SEALED AT BOTH ENDS.

3. PIPE CASINGS SHALL EXTEND 6 FEET BEYOND THE EDGE OF PAVEMENT. IF THE RIGHT-OF-WAY IS NOT OWNED BY CITY OF ARLINGTON, PIPE CASING SHALL EXTEND 6 FEET BEYOND RIGHT-OF-WAY.



NOTES:

1. HYDRANTS AND ALL MATERIALS SHALL CONFORM TO AWWA STANDARDS AND SHALL BE OF STANDARD MANUFACTURE (M&H 929 RELIANT OR MUELLER SUPER CENTURION 250 ONLY).

2. THE CENTER OF THE HYDRANT SHALL BE 3' FROM FACE OF CURB. IF THERE IS NO CURB, THE CENTER OF HYDRANT SHALL BE 3' FROM RIGHT-OF-WAY AND A MINIMUM OF 5' FROM TRAVELED LANE.

3. ONE 5" TO 4-1/2" PUMPER PORT W/N.S.T. AND STORZ ADAPTER ASSEMBLY. PUMPER PORT TO BE FACING STREET OR ROADWAY FOR THE FIRE ENGINE ACCESS.

4. TWO 2-1/2" HOSE PORTS W/N.S.T. AND 1-1/4" OPERATING NUTS.

5. PROVIDE GUARD POSTS FOR VEHICULAR TRAFFIC PROTECTION IF REQUIRED BY CITY ENGINEER PER STD. DETAIL W-030.

6. INSTALL 3'x3'x4" CONCRETE PAD (3000 PSI) AROUND HYDRANT IN UNPAVED AREAS INCLUDING PLANTER STRIPS. COMPLETELY SURROUND HYDRANT W/FULL DEPTH OF CONCRETE PAD WITH 1/4" JOINT MATERIAL BEFORE PLACING CONCRETE.

7. HYDRANT RUN TO BE 6" CEMENT LINED DUCTILE IRON PIPE CLASS 52 WITH RESTRAINED JOINTS (MEGALUG OR APPROVED EQUAL). HYDRANT RUN LONGER THAN 50 FEET SHALL BE 8" DIA. OR LARGER.

8. $\frac{3}{4}$" GALV. SHACKLE RODS WITH THE EYE BOLTS AT BOTH ENDS REQUIRED FROM VALVE TO HYDRANT.

9. FIRE HYDRANTS SHALL BE PAINTED WITH TWO COATS OF HIGH GLOSS EQUIPMENT YELLOW "RUST-OLEUM" TYPE PAINT.

10. INSTALL 24"x24"x4" CONCRETE PAD (3000 PSI) AROUND VALVE BOX AND 48"x48"x4" FOR MULTIPLE VALVE BOXES IN UNPAVED AREA.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_UT.dgn			
TIME	11:24:51 AM			
DATE	3/24/2010			
PLOTTED BY	lamaymp			
DESIGNED BY	M. LAMAY			
ENTERED BY	A. MUCHONEY			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S. SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

SHANE MARK SPAHR
40425

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

UTILITY DETAILS

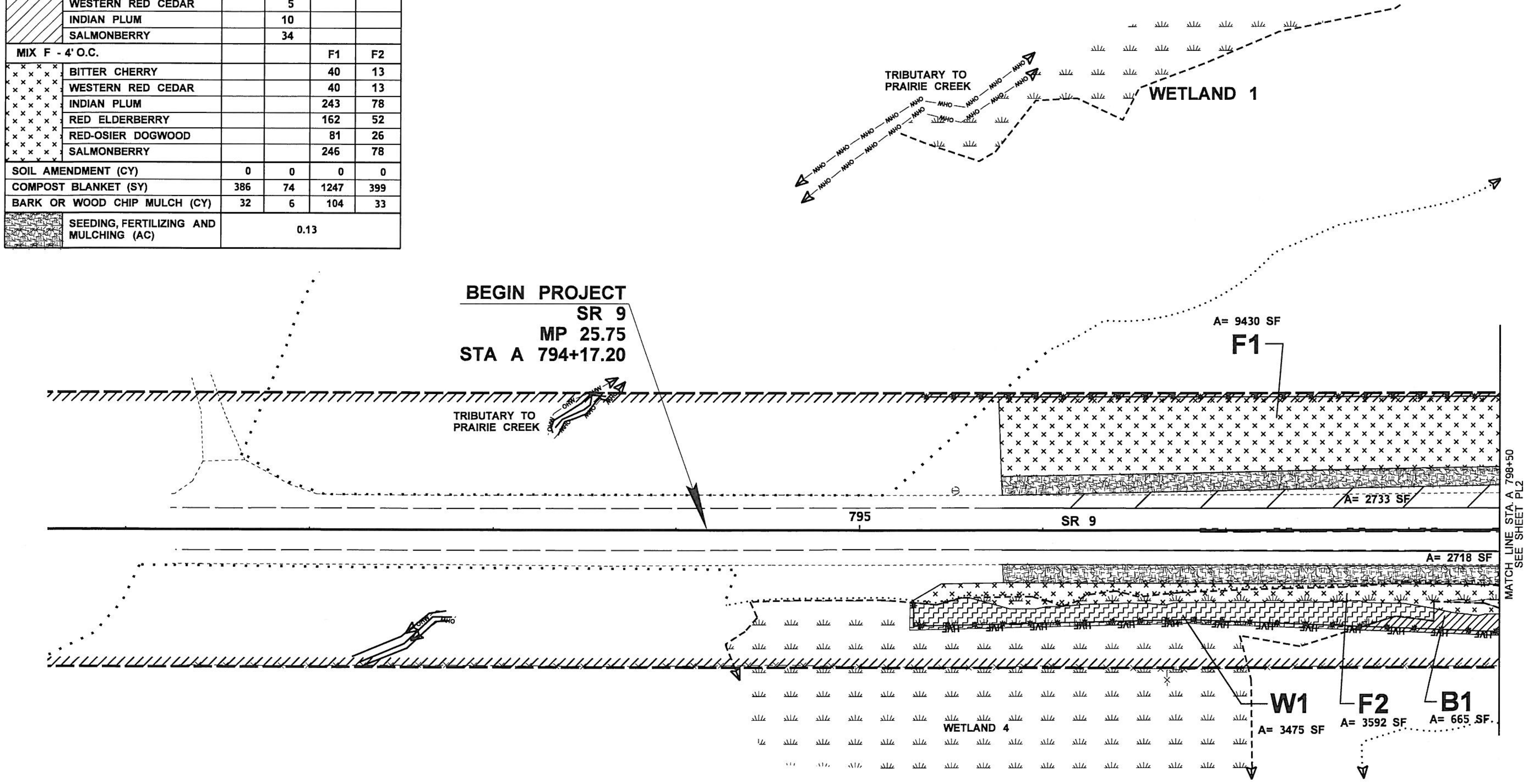
Plot 4
PLAN REF NO
UD2
SHEET
OF
SHEETS

QUANTITY TAB - THIS SHEET ONLY					
SYMBOL	ITEM	QUANTITY			
MIX W - 4' O.C.		W1			
▨	SALMONBERRY	175			
	SCOULER'S WILLOW	0			
	SLOUGH SEDGE (NOTE 2)	226			
MIX B - 4' O.C.			B1		
▨	WESTERN RED CEDAR		5		
	INDIAN PLUM		10		
	SALMONBERRY		34		
MIX F - 4' O.C.				F1	F2
×	BITTER CHERRY			40	13
	WESTERN RED CEDAR			40	13
	INDIAN PLUM			243	78
	RED ELDERBERRY			162	52
	RED-OSIER DOGWOOD			81	26
	SALMONBERRY			246	78
SOIL AMENDMENT (CY)		0	0	0	0
COMPOST BLANKET (SY)		386	74	1247	399
BARK OR WOOD CHIP MULCH (CY)		32	6	104	33
▨	SEEDING, FERTILIZING AND MULCHING (AC)	0.13			

T. 31N. R. 5E. W.M.

NOTE:

1. TREES TO BE SPACED NO CLOSER THAN 8 FT. O.C.
2. INSTALL 3 PLANTS PER PLANTING LOCATION. SEE DETAIL, SHEET PD2.



60% SUBMITTAL

0 30 60
SCALE IN FEET

FILE NAME	T:\412006\XL3325 SR 9 & SR 531 I- C\CAD\PS&ESheets\XL3325_PS_LA.dgn			
TIME	4:45:30 PM			
DATE	3/23/2010			
PLOTTED BY	mcleankf			
DESIGNED BY	K.BEAN			
ENTERED BY	K.McLEAN			
CHECKED BY	L.GRANT			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

DAVID S. PETERSON
CERTIFICATE NO. 476
DATE: ______

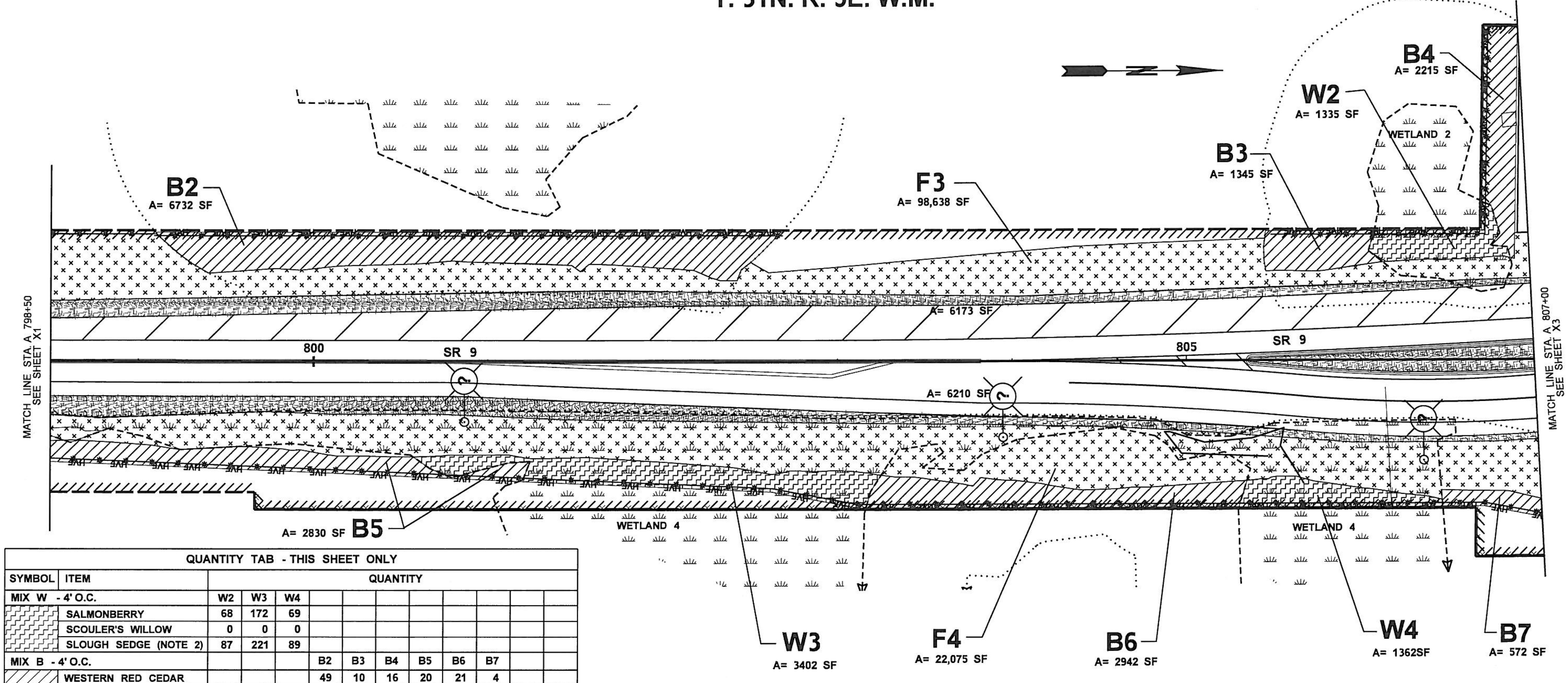
Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PLANTING PLAN

Plot 1
PLAN REF NO
PL1
SHEET
OF
SHEETS

T. 31N. R. 5E. W.M.



60% SUBMITTAL

QUANTITY TAB - THIS SHEET ONLY												
SYMBOL	ITEM	QUANTITY										
MIX W - 4' O.C.		W2	W3	W4								
▨	SALMONBERRY	68	172	69								
	SCOULER'S WILLOW	0	0	0								
	SLOUGH SEDGE (NOTE 2)	87	221	89								
MIX B - 4' O.C.					B2	B3	B4	B5	B6	B7		
▧	WESTERN RED CEDAR				49	10	16	20	21	4		
	INDIAN PLUM				97	19	32	41	43	8		
	SALMONBERRY				340	68	112	143	149	29		
MIX F - 4' O.C.											F3	F4
×	BITTER CHERRY										58	80
	WESTERN RED CEDAR										58	80
	INDIAN PLUM										346	478
	RED ELDERBERRY										233	319
	RED-OSIER DOGWOOD										117	159
	SALMONBERRY										349	478
SOIL AMENDMENT (CY)		0	0	0	0	0	0	0	0	0	0	0
COMPOST BLANKET (SY)		148	27	11	748	149	246	314	327	64	1793	2453
BARK OR WOOD CHIP MULCH (CY)		12	2	1	62	12	20	26	27	5	149	204
▦	SEEDING, FERTILIZING AND MULCHING (AC)	0.32										

NOTE:

1. TREES TO BE SPACED NO CLOSER THAN 8 FT. O.C.

2. INSTALL 3 PLANTS PER PLANTING LOCATION. SEE DETAIL, SHEET PD2.

0 30 60
SCALE IN FEET

FILE NAME T:\412006\XL3325 SR 9 & SR 531 I- C\CAD\PS&ESheets\XL3325_PS_LA.dgn
TIME 5:44:01 PM
DATE 3/23/2010
PLOTTED BY beankk
DESIGNED BY K.BEAN
ENTERED BY K.McLEAN
CHECKED BY L.GRANT
PROJ. ENGR. S.SPAHR
REGIONAL ADM. L. ENG
REVISION DATE BY

REGION NO. 10 STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
DAVID S. PETERSON
CERTIFICATE NO. 476
DATE: ______

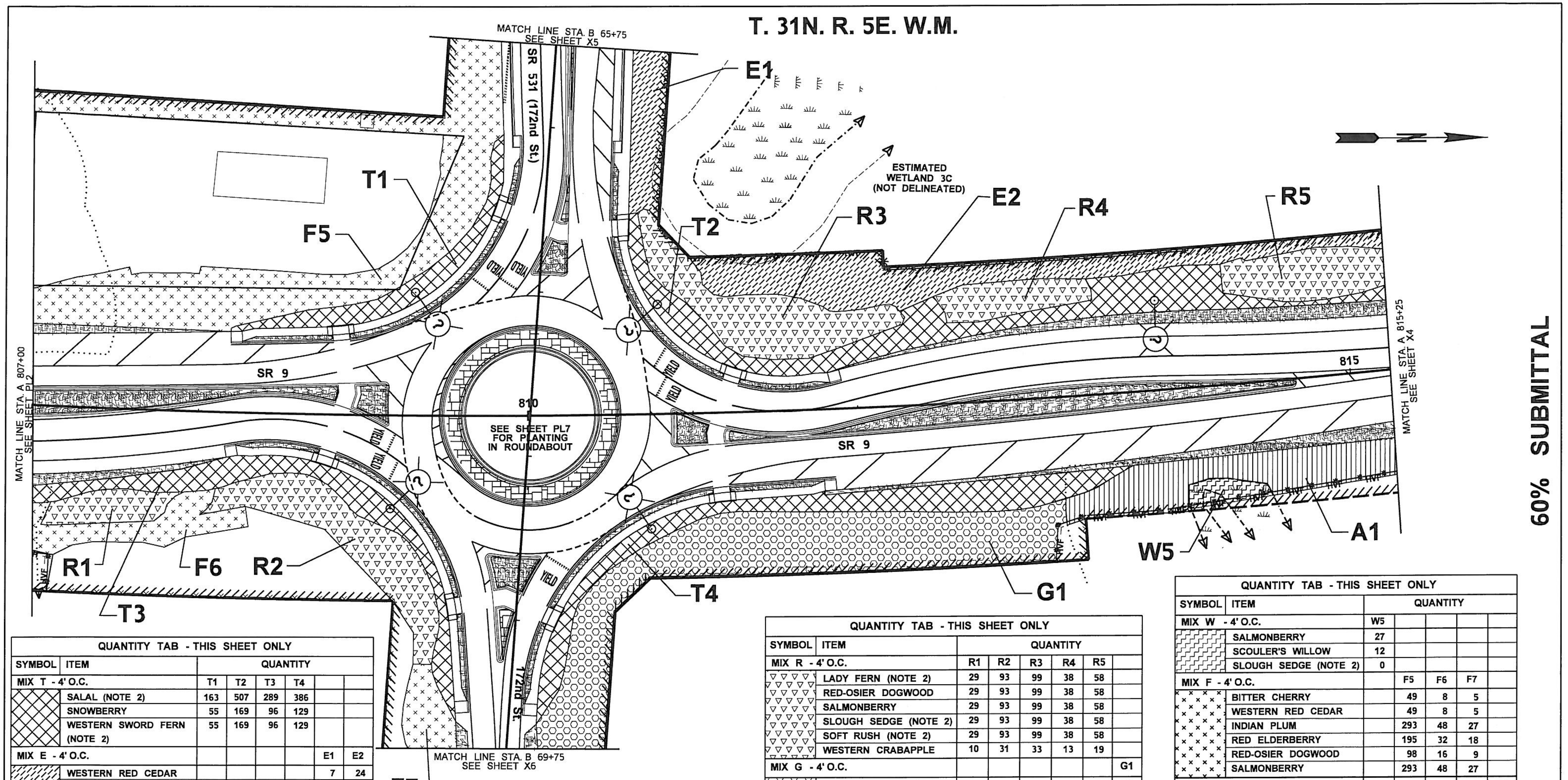
Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PLANTING PLAN

Plot 2
PLAN REF NO
PL2
SHEET
OF
SHEETS

T. 31N. R. 5E. W.M.



60% SUBMITTAL

QUANTITY TAB - THIS SHEET ONLY							
SYMBOL	ITEM	QUANTITY					
MIX T - 4' O.C.		T1	T2	T3	T4		
▨	SALAL (NOTE 2)	163	507	289	386		
	SNOWBERRY	55	169	96	129		
	WESTERN SWORD FERN (NOTE 2)	55	169	96	129		
MIX E - 4' O.C.						E1	E2
▨	WESTERN RED CEDAR					7	24
	INDIAN PLUM					49	169
	RED ELDERBERRY					14	48
	SALMONBERRY					49	169
	WESTERN CRABAPPLE					21	73
SOIL AMENDMENT (CY)		20	61	35	46	0	62
COMPOST BLANKET (SY)		0	0	0	0	18	0
BARK OR WOOD CHIP MULCH (CY)		20	61	35	46	18	62
▨	SEEDING, FERTILIZING AND MULCHING (AC)	0.28					

QUANTITY TAB - THIS SHEET ONLY							
SYMBOL	ITEM	QUANTITY					
MIX R - 4' O.C.		R1	R2	R3	R4	R5	
▽	LADY FERN (NOTE 2)	29	93	99	38	58	
	RED-OSIER DOGWOOD	29	93	99	38	58	
	SALMONBERRY	29	93	99	38	58	
	SLOUGH SEDGE (NOTE 2)	29	93	99	38	58	
	SOFT RUSH (NOTE 2)	29	93	99	38	58	
	WESTERN CRABAPPLE	10	31	33	13	19	
MIX G - 4' O.C.							G1
○	WESTERN RED CEDAR						44
	BEAKED HAZELNUT						87
	RED ELDERBERRY						44
	SALAL (NOTE 2)						782
	SCOULER'S WILLOW						174
	VINE MAPLE						261
SOIL AMENDMENT (CY)		12	40	42	16	25	111
COMPOST BLANKET (SY)		0	0	0	0	0	0
BARK OR WOOD CHIP MULCH (CY)		12	40	42	16	25	111

QUANTITY TAB - THIS SHEET ONLY						
SYMBOL	ITEM	QUANTITY				
MIX W - 4' O.C.		W5				
▨	SALMONBERRY	27				
	SCOULER'S WILLOW	12				
	SLOUGH SEDGE (NOTE 2)	0				
MIX F - 4' O.C.			F5	F6	F7	
×	BITTER CHERRY		49	8	5	
	WESTERN RED CEDAR		49	8	5	
	INDIAN PLUM		293	48	27	
	RED ELDERBERRY		195	32	18	
	RED-OSIER DOGWOOD		98	16	9	
	SALMONBERRY		293	48	27	
MIX A - 4' O.C.						A1
▥	BITTER CHERRY					17
	CASCARA					17
	INDIAN PLUM					99
	SALAL (NOTE 2)					495
	VINE MAPLE					66
SOIL AMENDMENT (CY)		0	125	0	139	0
COMPOST BLANKET (SY)		60	0	247	0	508
BARK OR WOOD CHIP MULCH (CY)		5	125	21	12	42

NOTE:

1. TREES TO BE SPACED NO CLOSER THAN 8 FT. O.C.

2. INSTALL 3 PLANTS PER PLANTING LOCATION. SEE DETAIL, SHEET PD2.

0 30 60
SCALE IN FEET

FILE NAME	T:\412006\XL3325 SR 9 & SR 531 I- C\CAD\PS&ESheets\XL3325_PS_LA.dgn			
TIME	5:44:02 PM			
DATE	3/23/2010			
PLOTTED BY	beankk			
DESIGNED BY	K.BEAN			
ENTERED BY	K.McLEAN			
CHECKED BY	L.GRANT			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

DAVID S. PETERSON
CERTIFICATE NO. 476
DATE: ____________

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

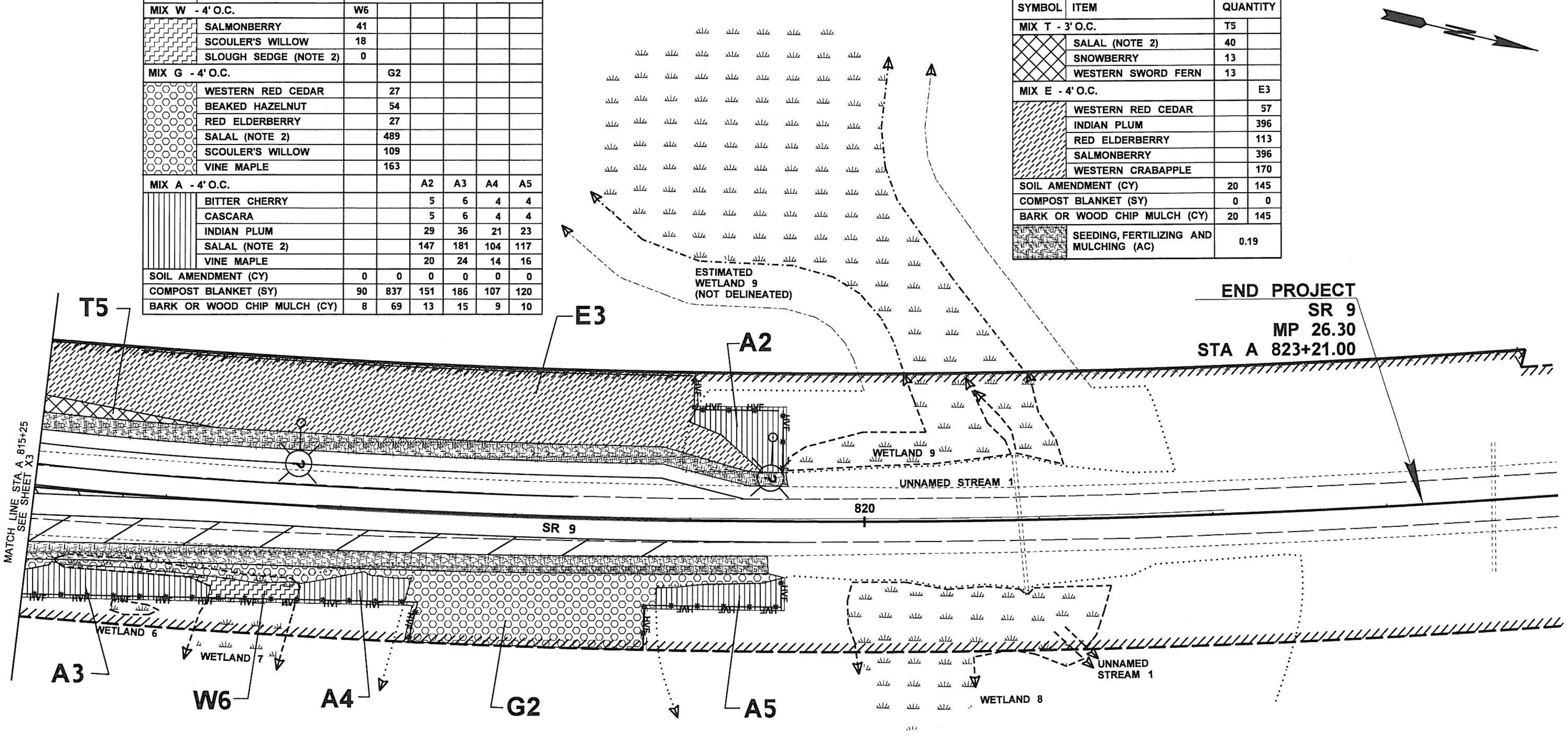
PLANTING PLAN

Plot 3
PLAN REF NO
PL3
SHEET
OF
SHEETS

QUANTITY TAB - THIS SHEET ONLY							
SYMBOL	ITEM	QUANTITY					
MIX W - 4' O.C.		W6					
▨	SALMONBERRY	41					
	SCOULER'S WILLOW	18					
	SLOUGH SEDGE (NOTE 2)	0					
MIX G - 4' O.C.			G2				
▨	WESTERN RED CEDAR		27				
	BEAKED HAZELNUT		54				
	RED ELDERBERRY		27				
	SALAL (NOTE 2)		489				
	SCOULER'S WILLOW		109				
	VINE MAPLE		163				
MIX A - 4' O.C.				A2	A3	A4	A5
▥	BITTER CHERRY			5	6	4	4
	CASCARA			5	6	4	4
	INDIAN PLUM			29	36	21	23
	SALAL (NOTE 2)			147	181	104	117
	VINE MAPLE			20	24	14	16
SOIL AMENDMENT (CY)		0	0	0	0	0	0
COMPOST BLANKET (SY)		90	837	151	186	107	120
BARK OR WOOD CHIP MULCH (CY)		8	69	13	15	9	10

T. 31N. R. 5E. W.M.

QUANTITY TAB - THIS SHEET ONLY			
SYMBOL	ITEM	QUANTITY	
MIX T - 3' O.C.		T5	
▩	SALAL (NOTE 2)	40	
	SNOWBERRY	13	
	WESTERN SWORD FERN	13	
MIX E - 4' O.C.			E3
▨	WESTERN RED CEDAR		57
	INDIAN PLUM		396
	RED ELDERBERRY		113
	SALMONBERRY		396
	WESTERN CRABAPPLE		170
SOIL AMENDMENT (CY)		20	145
COMPOST BLANKET (SY)		0	0
BARK OR WOOD CHIP MULCH (CY)		20	145
▦	SEEDING, FERTILIZING AND MULCHING (AC)	0.19	



60% SUBMITTAL

NOTE:

1. TREES TO BE SPACED NO CLOSER THAN 8 FT. O.C.

2. INSTALL 3 PLANTS PER PLANTING LOCATION.
SEE DETAIL, SHEET PD2.

0 30 60
SCALE IN FEET

FILE NAME	T:\412006\XL3325 SR 9 & SR 531 I- C\CAD\PS&ESheets\XL3325_PS_LA.dgn			
TIME	4:45:39 PM			
DATE	3/23/2010			
PLOTTED BY	mcleankf			
DESIGNED BY	K.BEAN			
ENTERED BY	K.McLEAN			
CHECKED BY	L.GRANT			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

DAVID S. PETERSON
CERTIFICATE NO. 476
DATE: ____________

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PLANTING PLAN

Plot 4
PLAN REF NO
PL4
SHEET
OF
SHEETS

T. 31N. R. 5E. W.M.

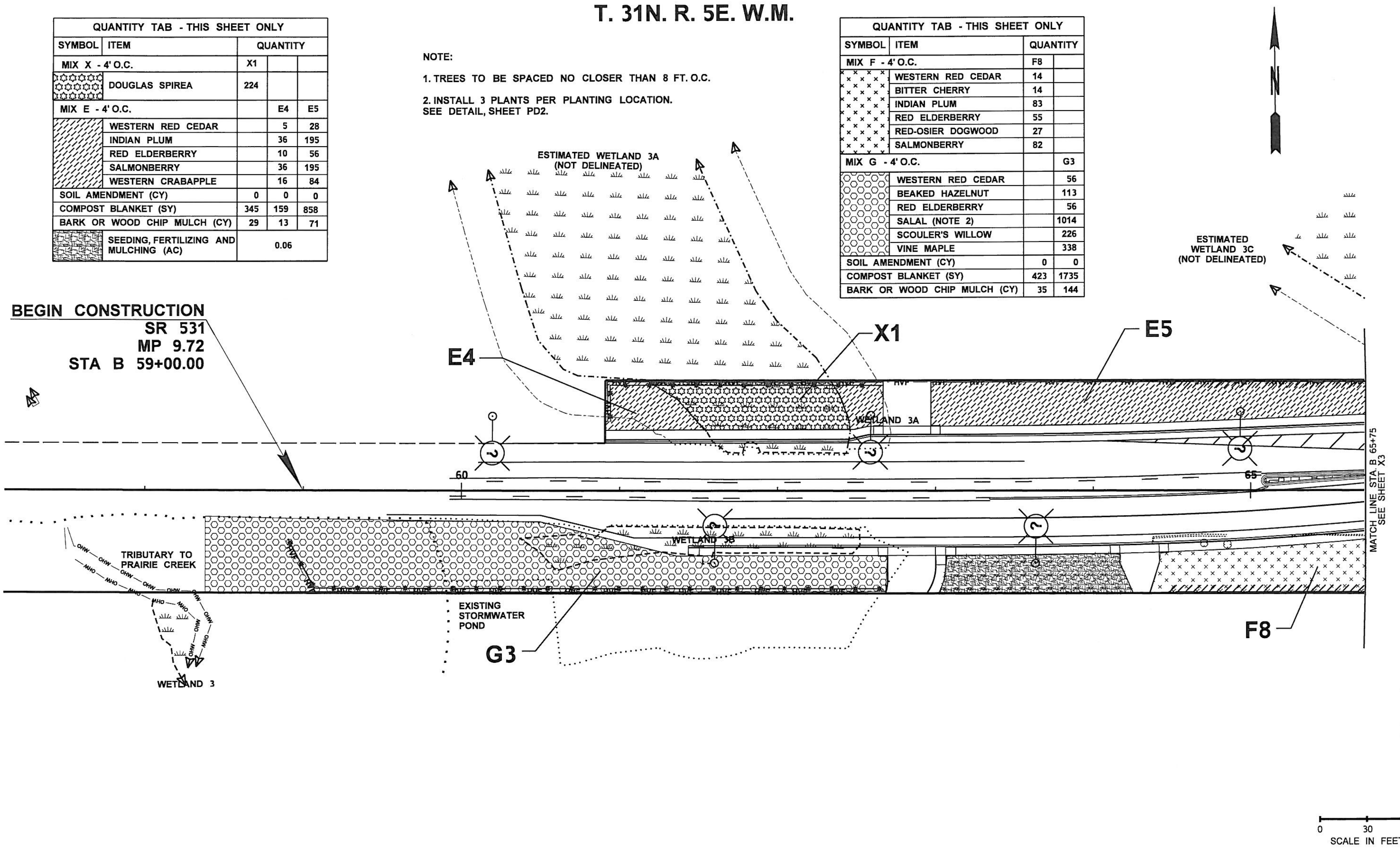
QUANTITY TAB - THIS SHEET ONLY				
SYMBOL	ITEM	QUANTITY		
MIX X - 4' O.C.		X1		
✡	DOUGLAS SPIREA	224		
MIX E - 4' O.C.			E4	E5
▨	WESTERN RED CEDAR		5	28
	INDIAN PLUM		36	195
	RED ELDERBERRY		10	56
	SALMONBERRY		36	195
	WESTERN CRABAPPLE		16	84
SOIL AMENDMENT (CY)		0	0	0
COMPOST BLANKET (SY)		345	159	858
BARK OR WOOD CHIP MULCH (CY)		29	13	71
▦	SEEDING, FERTILIZING AND MULCHING (AC)	0.06		

NOTE:

1. TREES TO BE SPACED NO CLOSER THAN 8 FT. O.C.

2. INSTALL 3 PLANTS PER PLANTING LOCATION. SEE DETAIL, SHEET PD2.

QUANTITY TAB - THIS SHEET ONLY			
SYMBOL	ITEM	QUANTITY	
MIX F - 4' O.C.		F8	
×	WESTERN RED CEDAR	14	
	BITTER CHERRY	14	
	INDIAN PLUM	83	
	RED ELDERBERRY	55	
	RED-OSIER DOGWOOD	27	
	SALMONBERRY	82	
MIX G - 4' O.C.			G3
⬡	WESTERN RED CEDAR		56
	BEAKED HAZELNUT		113
	RED ELDERBERRY		56
	SALAL (NOTE 2)		1014
	SCOULER'S WILLOW		226
	VINE MAPLE		338
SOIL AMENDMENT (CY)		0	0
COMPOST BLANKET (SY)		423	1735
BARK OR WOOD CHIP MULCH (CY)		35	144



60% SUBMITTAL

FILE NAME	T:\412006\XL3325 SR 9 & SR 531 I- C\CAD\PS&ESheets\XL3325_PS_LA.dgn						
TIME	4:45:42 PM				REGION NO.	STATE	FED.AID PROJ.NO.
DATE	3/23/2010				10	WASH	
PLOTTED BY	mcleankf				JOB NUMBER		
DESIGNED BY	K.BEAN						
ENTERED BY	K.McLEAN						
CHECKED BY	L.GRANT				CONTRACT NO.		LOCATION NO.
PROJ. ENGR.	S.SPAHR						
REGIONAL ADM.	L. ENG	REVISION	DATE	BY			

STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

DAVID S. PETERSON
CERTIFICATE NO. 476
DATE:

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

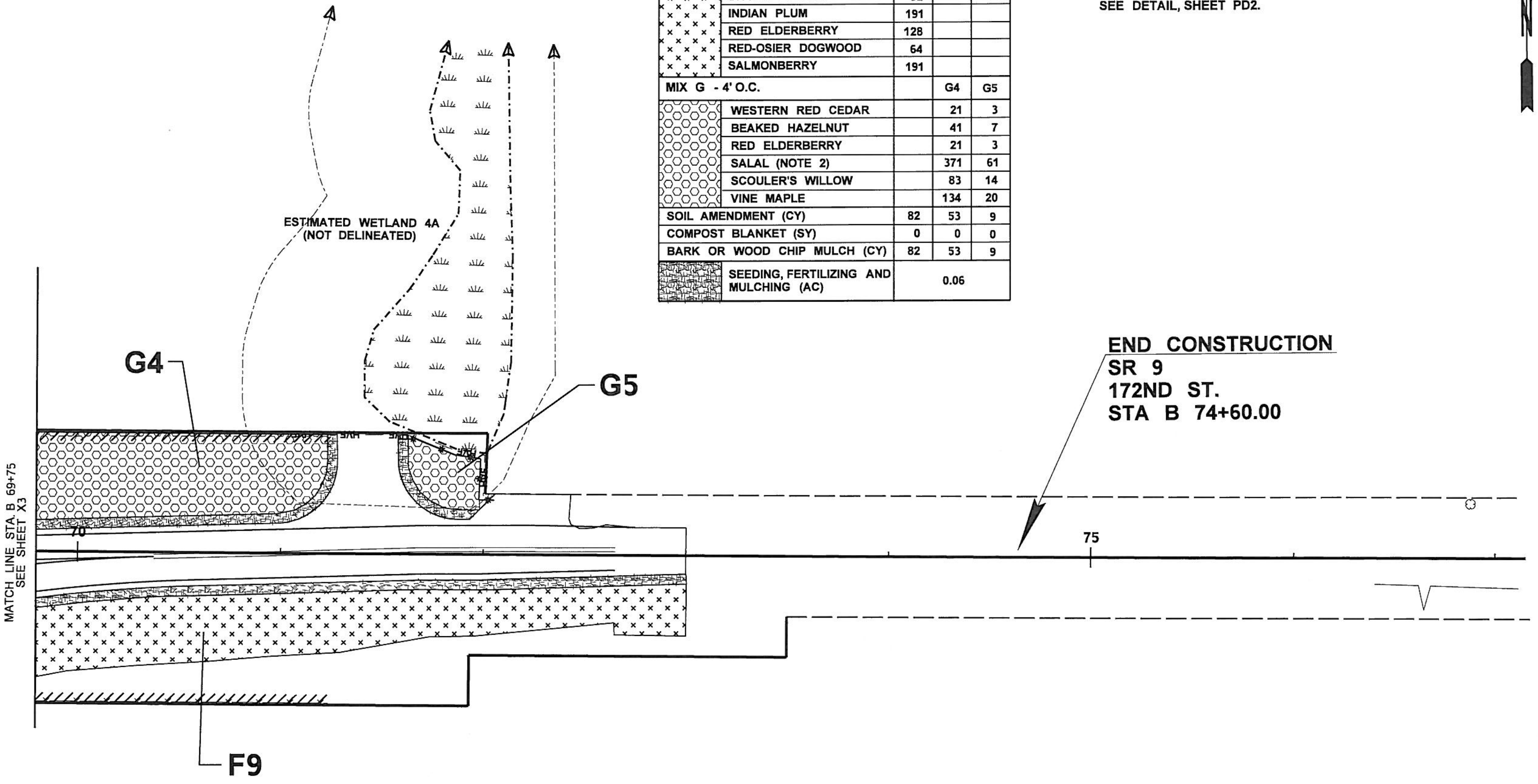
PLANTING PLAN

Plot 5
PLAN REF NO
PL5
SHEET
OF
SHEETS

QUANTITY TAB - THIS SHEET ONLY				
SYMBOL	ITEM	QUANTITY		
MIX F - 4' O.C.		F9		
× × ×	WESTERN RED CEDAR	32		
	BITTER CHERRY	32		
	INDIAN PLUM	191		
	RED ELDERBERRY	128		
	RED-OSIER DOGWOOD	64		
	SALMONBERRY	191		
MIX G - 4' O.C.			G4	G5
⬡⬡⬡	WESTERN RED CEDAR		21	3
	BEAKED HAZELNUT		41	7
	RED ELDERBERRY		21	3
	SALAL (NOTE 2)		371	61
	SCOULER'S WILLOW		83	14
	VINE MAPLE		134	20
SOIL AMENDMENT (CY)		82	53	9
COMPOST BLANKET (SY)		0	0	0
BARK OR WOOD CHIP MULCH (CY)		82	53	9
▨	SEEDING, FERTILIZING AND MULCHING (AC)	0.06		

NOTE:

1. TREES TO BE SPACED NO CLOSER THAN 8 FT. O.C.
2. INSTALL 3 PLANTS PER PLANTING LOCATION. SEE DETAIL, SHEET PD2.



N

0 30 60
SCALE IN FEET

60% SUBMITTAL

FILE NAME	T:\412006\XL3325 SR 9 & SR 531 I- C\CAD\PS&ESheets\XL3325_PS_LA.dgn			
TIME	4:45:45 PM			
DATE	3/23/2010			
PLOTTED BY	mcleankf			
DESIGNED BY	K.BEAN			
ENTERED BY	K.McLEAN			
CHECKED BY	L.GRANT			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L.ENG	REVISION	DATE	BY

REGION NO. 10
STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

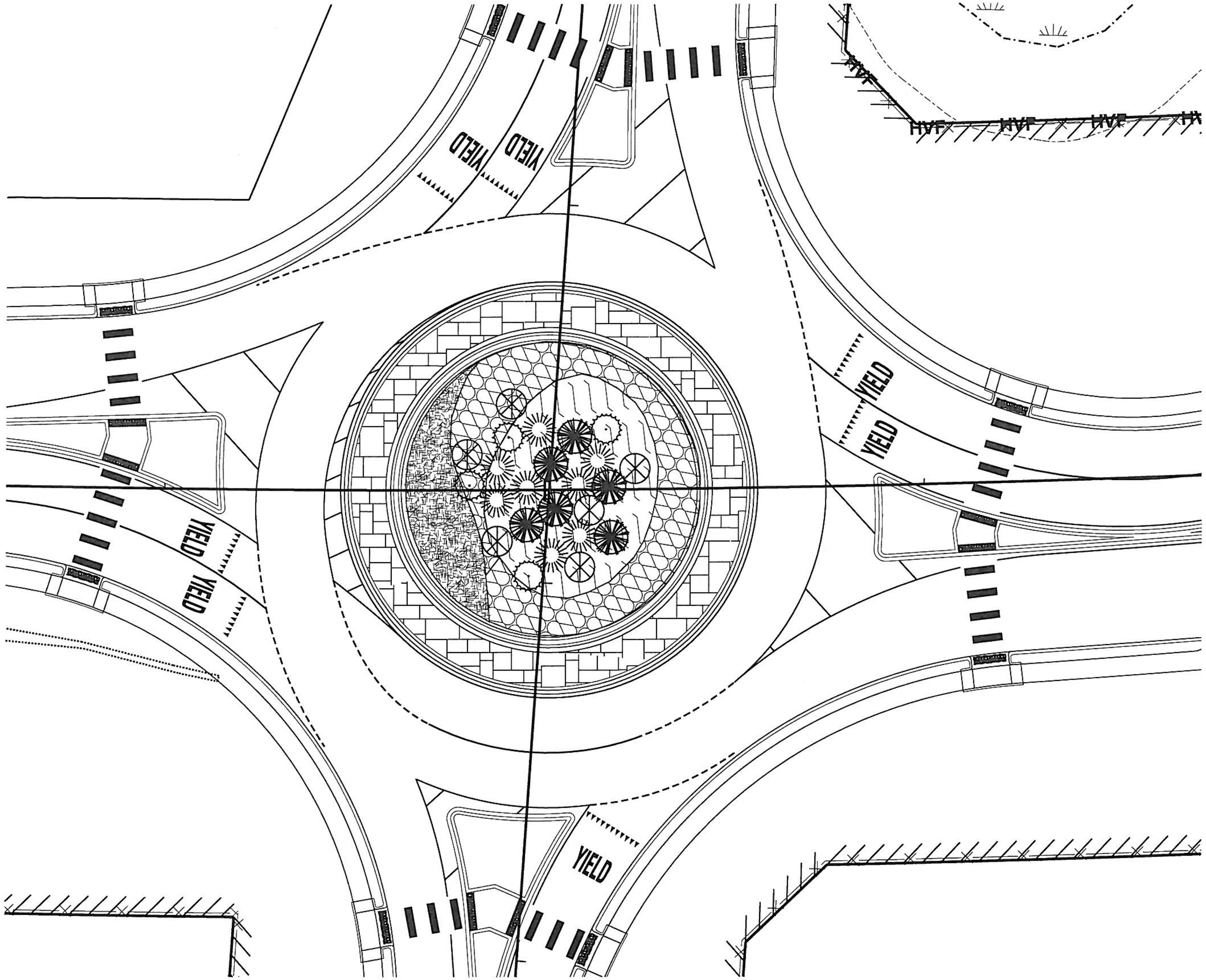
STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
DAVID S. PETERSON
CERTIFICATE NO. 476
DATE:

Washington State Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PLANTING PLAN

Plot 6
PLAN REF NO
PL6
SHEET
OF
SHEETS



QUANTITY TAB - THIS SHEET ONLY		
SYMBOL	ITEM	QUANTITY
MIX L - 2' O.C.		L1
▨	SALAL	56
	SNOWBERRY	28
	WESTERN SWORD FERN	56
MIX M - 4' O.C.		M1
▨	RED ELDERBERRY	30
	RED-OSIER DOGWOOD	45
	SALAL (NOTE 2)	134
	VINE MAPLE	15
	WESTERN SWORD FERN (NOTE 2)	45
MIX TR - 8' O.C.		
✳	DOUGLAS FIR	8
●	WESTERN HEMLOCK	6
○	CRABAPPLE	4
⊗	WESTERN SERVICEBERRY	6
SOIL AMENDMENT (CY)		44
COMPOST BLANKET (SY)		0
BARK OR WOOD CHIP MULCH (CY)		44
▨	SEEDING, FERTILIZING AND MULCHING (AC)	0.02

NOTE:

1. TREES TO BE SPACED NO CLOSER THAN 8 FT. O.C.

2. INSTALL 3 PLANTS PER PLANTING LOCATION. SEE DETAIL, SHEET PD2.

60% SUBMITTAL

0 15 30
SCALE IN FEET

FILE NAME	T:\412006\XL3325 SR 9 & SR 531 I- C\CAD\PS&ESheets\XL3325_PS_LA.dgn					
TIME	4:45:48 PM					
DATE	3/23/2010					
PLOTTED BY	mcleankf					
DESIGNED BY	K.BEAN					
ENTERED BY	K.McLEAN					
CHECKED BY	L.GRANT					
PROJ. ENGR.	S.SPAHR					
REGIONAL ADM.	L.ENG	REVISION	DATE	BY		

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

DAVID S. PETERSON
CERTIFICATE NO. 476
DATE: ________

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PLANTING PLAN

Plot 7
PLAN REF NO
PL7
SHEET
OF
SHEETS

PLANT MATERIAL LIST

COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE	ROOT CONDITION	REMARKS
TREES	TREES				
BITTER CHERRY	PRUNUS EMARGINATA	335	12 IN. HT.	NO. 1 CONT.	
CRABAPPLE	MALUS XX	4	6 FT. HT.	BALL & BURLAP	
DOUGLAS FIR	PSEUDOTSUGA MENZIESII	8	6 FT. HT.	BALL & BURLAP	NATURAL FORM, NO SHEARED TREES
WESTERN CRABAPPLE	MALUS FUSCA	470	12 IN. HT.	NO. 1 CONT.	
WESTERN HEMLOCK	TSUGA HETEROPHYLLA	6	6 FT. HT.	BALL & BURLAP	NATURAL FORM, NO SHEARED TREES
WESTERN RED CEDAR	THUJA PLICTA	696	12 IN. HT.	NO. 2 CONT.	NATURAL FORM, NO SHEARED TREES
SHRUBS	SHRUBS				
BEAKED HAZELNUT	CORYLUS CORNUTA	302	12 IN. HT.	NO. 1 CONT.	2 CANES MIN.
CASCARA	RHAMNUS PURSHIANA	36	12 IN. HT.	NO. 1 CONT.	2 CANES MIN.
DOUGLAS SPIREA	SPIREA DOUGLASII	224	12 IN. HT.	NO. 1 CONT.	2 CANES MIN.
INDIAN PLUM	OEMLERIA CERASIFORMIS	3090	12 IN. HT.	NO. 1 CONT.	2 CANES MIN.
RED ELDERBERRY	SAMBUCUS RACEMOSA	1616	12 IN. HT.	NO. 1 CONT.	2 GROWTH POINTS MIN.
RED-OSIER DOGWOOD	CORNUS SERICEA	959	12 IN. HT.	NO. 1 CONT.	2 CANES MIN.
SALAL	GAULTHERIA SHALLON	5336	6 IN. SPREAD	NO. 1 CONT.	3 BRANCHES MIN.
SALMONBERRY	RUBUS SPECTABILIS	4381	12 IN. HT.	NO. 1 CONT.	2 CANES MIN.
SCOULER WILLOW	SALIX SCLOUERI	636	18 IN. HT.	NO. 1 CONT.	2 CANES MIN.
SNOWBERRY	SYMPHORICARPOS ALBUS	490	10 IN. HT.	NO. 1 CONT.	2 CANES MIN.
WESTERN SERVICEBERRY	AMELANCHIER ALNIFOLIA	6	18 IN. HT.	NO. 2 CONT.	2 CANES MIN.
VINE MAPLE	ACER CIRCINATUM	1071	12 IN. HT.	NO. 1 CONT.	2 CANES MIN.
WESTERN SWORD FERN	POLYSTICHUM MUNITUM	563	6 IN. SPREAD	NO. 1 CONT.	3 FRONDS MIN.
EMERGENTS	EMERGENTS				
LADY FERN	ATHYRIUM FELIX-FEMINA	317		NO. 1 CONT.	3 FRONDS MIN.
SLOUGH SEDGE	CAREX OBNUPTA	940		BARE ROOT OR PLUG	
SOFT RUSH	JUNCUS EFFUSUS	317		BARE ROOT OR PLUG	

NOTES:

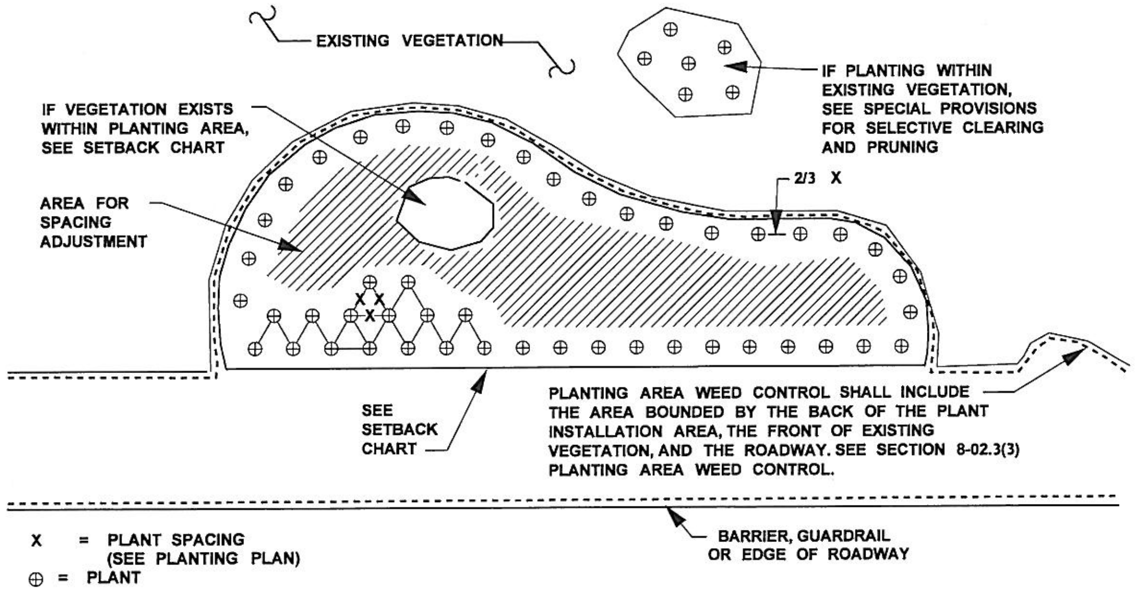
1. IF A CONFLICT OCCURS BETWEEN THE AMERICAN STANDARD FOR NURSERY STOCK AND THESE SPECIFICATIONS THEN THESE SPECIFICATIONS SHALL APPLY.
2. SPECIFICATIONS FOR SIZE AND CONDITION ARE MINIMUM.
3. ALL PLANT MATERIALS SHALL BE NURSERY GROWN STOCK.
4. PLANTS SHALL BE RANDOMLY MIXED THROUGHOUT EACH PLANTING ZONE AS APPROVED BY THE ENGINEER. SEE SCHEDULE FOR MIN. GROUPINGS OF EACH SPECIES.
5. ALL TREES REQUIRING STAKING SHALL BE STAKED AND SECURED WITHIN 48 HOURS AFTER PLANTING.
6. ALL TREE/SHRUB PLANTINGS SHALL BE SETBACK A MIN. OF 5 FEET FROM ALL PAVEMENT EDGES, EXCEPT WHERE NOTED. (SEE SETBACK CHART)

PLANT MATERIAL SETBACK CHART

THIS CHART SUPPLEMENTS SECTION 8.02.3(7) OF THE STANDARD SPECIFICATIONS

	GUARDRAIL BARRIER	EDGE OF ROADWAY	WALL	FENCE	SIGNS	EXISTING TREE, TRUNK	EXISTING VEGETATION MASS
EVERGREEN TREE	10'	10'	10'	10'	15'	15'	10'
DECIDUOUS TREE	10'	10'	10'	10'	15'	15'	10'
SHRUB	5'	10'	5'	6'	6'	10'	10'

TYPICAL SETBACKS FOR PLANT MATERIAL UNLESS OTHERWISE ADJUSTED BY THE ENGINEER DURING LAYOUT AND STAKING OF PLANT LOCATIONS. DISTANCE NOTED IS TO STEM OR TRUNK OF PLANT.



PLANTING AREA LAYOUT, SETBACK, AND WEED CONTROL

NOT TO SCALE

FILE NAME	T:\412006\XL3325 SR 9 & SR 531 I- C\CAD\PS&ESheets\XL3325 PS LA DET.dgn			
TIME	6:06:57 PM			
DATE	3/23/2010			
PLOTTED BY	beankk			
DESIGNED BY	K.BEAN			
ENTERED BY	K.McLEAN			
CHECKED BY	L.GRANT			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L.ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

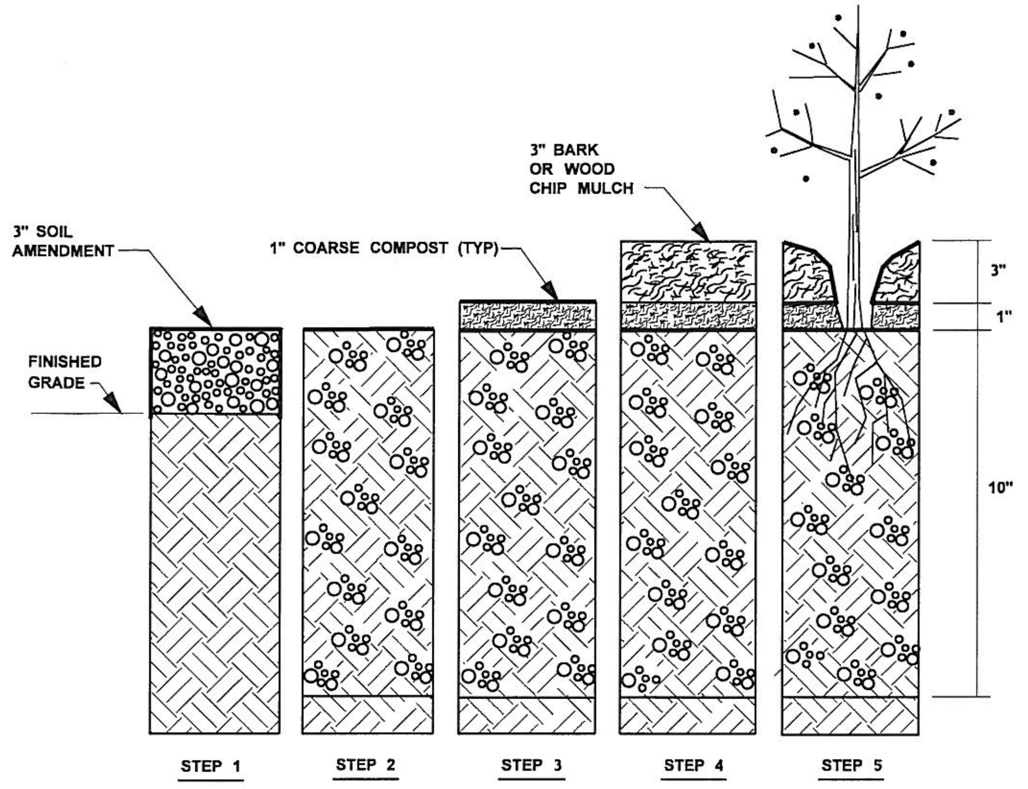
DAVID S. PETERSON
CERTIFICATE NO. 476
DATE:

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST NE
INTERSECTION IMPROVEMENT

PLANTING DETAILS

Plot 1
PLAN REF NO
PD1
SHEET
OF
SHEETS



PLANTING AREA PREPARATION
(SEE SECTION 8-02.3(5) IN THE SPECIAL PROVISIONS)

STEP 1

PLACE 3" SOIL AMENDMENT

STEP 2

INCORPORATE SOIL AMENDMENT TO 10" DEPTH ACCORDING TO SECTION 8-02.3(6), SOIL AMENDMENT IN THE SPECIAL PROVISIONS

STEP 3

PLACE 1" COARSE COMPOST

STEP 4

INSTALL BARK OR WOOD CHIP MULCH 3" DEEP (SEE PLANTING DETAIL)

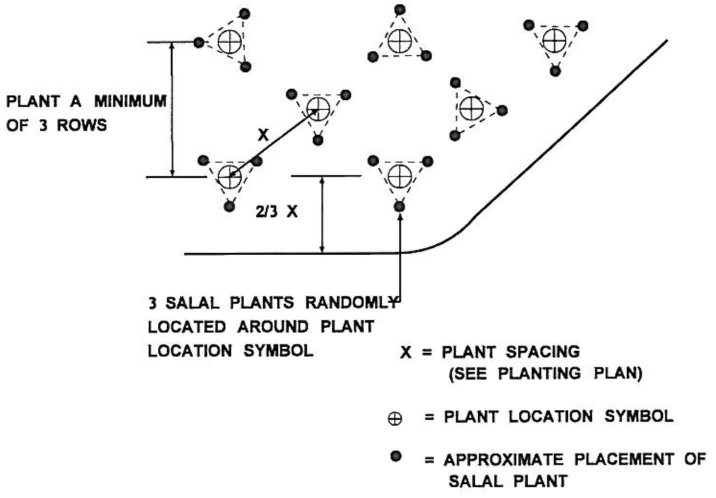
STEP 5

INSTALL PLANT (SEE PLANTING DETAIL)

PLANTING AREA SOIL PREPARATION - SEQUENCE OF WORK

SECTION VIEW

NOT TO SCALE



SALAL PLANT LAYOUT

NOT TO SCALE

FILE NAME T:\412006\XL3325 SR 9 & SR 531 I- C\CAD\PS&ESheets\XL3325 PS LA DET.dgn
TIME 5:46:47 PM
DATE 3/23/2010
PLOTTED BY beankk
DESIGNED BY K.BEAN
ENTERED BY K.McLEAN
CHECKED BY L.GRANT
PROJ. ENGR. S.SPAHR
REGIONAL ADM. L.ENG

REVISION	DATE	BY

REGION NO. 10
STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

STATE OF
WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT

DAVID S. PETERSON
CERTIFICATE NO. 476
DATE: ____________

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST NE
INTERSECTION IMPROVEMENT

PLANTING DETAILS

Plot 2
PLAN REF NO
PD2
SHEET
OF
SHEETS

QUANTITY TABULATION - PAVING

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ⋎ \ UNIT OF MEASURE ⋗	PLANING BITUMINOUS PAVEMENT		CEMENT CONC. TRAFFIC CURB AND GUTTER	MOUNTABLE CURB & GUTTER 2 IN	MOUNTABLE CURB & GUTTER 4 IN	CENTRAL ISLAND CURB AND GUTTER		CEMENT CONC. PEDESTRIAN CURB	EXTRUDED CURB	CEMENT CONC. SIDEWALK		CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 - MOD	ASPHALT RAMP	CEMENT CONC. SIDEWALK RAMP TYPE 3A - MOD		SEE GENERAL NOTES
		S.Y.		L.F.	L.F.	L.F.	L.F.		L.F.	L.F.	S.Y.		S.Y.		EACH		
P1	A 795+77.7 TO A 803+00	1980															
P2	A 799+67.5 (75.0' RT) TO B 71+24.0 (74.0' RT)																8
P2	A 805+35.3 TO A 809+14.5					787											2
P2	A 806+69.7 (75.0' LT) TO B 64+48.1 (64.0' RT)																8
P3	A 808+16.3 (20.5' RT) TO B 69+57.7 (24.1' RT)					255											2
P3	A 808+16.9 (23.9' RT)													1			6
P3	A 808+18.4 (42.2' LT) TO B 66+05.9 (17' RT)					247											2
P3	A 808+18.4 (45.7' LT)													1			6
P3	A 808+79.3 (22' RT)								16						1		1, 7
P3	A 808+86.3 (45.3' LT)								16						1		1, 7
P3	A 808+87.9 (5.8' LT)																9
P3	A 808+89.6 (18.2' LT)																9
P3	A 809+48.2 TO 810+54.2				333												2
P3	A 809+59.5 TO 810+43						271										2
P3	A 810+87.8 TO A 814+65.5 (2' RT)					782											2
P3	A 811+13.6 (18.2' RT)																9
P3	A 811+14.5 (8.5' RT)																9
P3	A 811+16.1 (45.3' RT)								16						1		1, 7
P3	A 811+23.1 (18.6' LT)								16						1		1, 7
P3	A 811+85.6 (45.9' RT)													1			6
P3	A 811+90.1 (20.3' LT)													1			6
P3	A 815+00 TO A 819+58.1	1400															
P3	B 62+60.0 (47.0' RT)																10
P3	B 66+05.6 (41.7' LT)																6
P3	B 66+05.7 (39' LT) TO A 811+91 (17' LT)					271											2
P3	B 66+05.9 (17' RT)																6
P3	B 66+53 (21' RT)								16						1		1, 7
P3	B 66+58.8 (41.5' LT)								16						1		1, 7
P3	B 66+61.9 (5.8' LT)																9
P3	B 66+62.6 (14.2' LT)																9
P3	B 68+62.2 TO 69+25.3 (7.5' RT)					165											2
	SHEET TOTAL	3380			333	2507	271		96					4	6		

GENERAL NOTES:

1. SEE CONCRETE CURBS STANDARD PLAN F-10.12-00
2. SEE SHEET PD7
3. SEE EXTRUDED CURB STANDARD PLAN F-10.42-00 TYPE 4
4. SEE CEMENT CONCRETE SIDEWALK STANDARD PLAN F-30.10-00
5. SEE SHEET PD8
6. SEE SHEET PD10
7. SEE SHEET PD11
8. SEE WIRE FENCE TYPES 1&2 AND WIRE GATES STANDARD PLAN L-10.10-00
9. SEE SHEET PD9
10. SEE MAILBOX SUPPORT TYPE1 STANDARD PLAN H-70.10-00

		DATE	DATE	REVISION	BY
DESIGNED BY					
ENTERED BY		02/09/10			
CHECKED BY	J. KORESKI				
PROJ. ENGR.	S. SPAHR				
REGION ADM.	L. ENG				

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

QUANTITY TABULATION - PAVING

QTPV 1

SHEET

OF

SHEETS

QUANTITY TABULATION - PAVING

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ⋎ \ UNIT OF MEASURE ⋗	CEMENT CONC. RAMP	AT GRADE DETECTABLE WARNING		END, GATE, CORNER, AND PULL POST FOR CHAIN LINK FENCE	WIRE FENCE TYPE 2		MAILBOX SUPPORT TYPE 1									SEE GENERAL NOTES
		EACH	S.F.		EACH	L.F.		EACH									
P1	A 795+77.7 TO A 803+00																
P2	A 799+67.5 (75.0' RT) TO B 71+24.0 (74.0' RT)				7	1228											8
P2	A 805+35.3 TO A 809+14.5																2
P2	A 806+69.7 (75.0' LT) TO B 64+48.1 (64.0' RT)				4	534											8
P3	A 808+16.3 (20.5' RT) TO B 69+57.7 (24.1' RT)																2
P3	A 808+16.9 (23.9' RT)																6
P3	A 808+18.4 (42.2' LT) TO B 66+05.9 (17' RT)																2
P3	A 808+18.4 (45.7' LT)																6
P3	A 808+79.3 (22' RT)																1, 7
P3	A 808+86.3 (45.3' LT)																1, 7
P3	A 808+87.9 (5.8' LT)		20														9
P3	A 808+89.6 (18.2' LT)		20														9
P3	A 809+48.2 TO 810+54.2																2
P3	A 809+59.5 TO 810+43																2
P3	A 810+87.8 TO A 814+65.5 (2' RT)																2
P3	A 811+13.6 (18.2' RT)		20														9
P3	A 811+14.5 (8.5' RT)		20														9
P3	A 811+16.1 (45.3' RT)																1, 7
P3	A 811+23.1 (18.6' LT)																1, 7
P3	A 811+85.6 (45.9' RT)																6
P3	A 811+90.1 (20.3' LT)																6
P3	A 815+00 TO A 819+58.1																
P3	B 62+60.0 (47.0' RT)							1									10
P3	B 66+05.6 (41.7' LT)																6
P3	B 66+05.7 (39' LT) TO A 811+91 (17' LT)																2
P3	B 66+05.9 (17' RT)																6
P3	B 66+53 (21' RT)																1, 7
P3	B 66+58.8 (41.5' LT)																1, 7
P3	B 66+61.9 (5.8' LT)		20														9
P3	B 66+62.6 (14.2' LT)		20														9
P3	B 68+62.2 TO 69+25.3 (7.5' RT)																2
	SHEET TOTAL		120		11	1762		1									

GENERAL NOTES:

1. SEE CONCRETE CURBS STANDARD PLAN F-10.12-00

2. SEE SHEET PD7

3. SEE EXTRUDED CURB STANDARD PLAN F-10.42-00 TYPE 4

4. SEE CEMENT CONCRETE SIDEWALK STANDARD PLAN F-30.10-00

5. SEE SHEET PD8

6. SEE SHEET PD10

7. SEE SHEET PD11

8. SEE WIRE FENCE TYPES 1&2 AND WIRE GATES STANDARD PLAN L-10.10-00

9. SEE SHEET PD9

10. SEE MAILBOX SUPPORT TYPE1 STANDARD PLAN H-70.10-00

		DATE	DATE	REVISION	BY
DESIGNED BY					
ENTERED BY		02/09/10			
CHECKED BY	J. KORESKI				
PROJ. ENGR.	S. SPAHR				
REGION ADM.	L. ENG				

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

Washington State Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

QUANTITY TABULATION - PAVING

QTPV 2

SHEET

OF

SHEETS

QUANTITY TABULATION - PAVING

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ⋎ \ UNIT OF MEASURE ⋗	PLANING BITUMINOUS PAVEMENT		CEMENT CONC. TRAFFIC CURB AND GUTTER	MOUNTABLE CURB & GUTTER 2 IN	MOUNTABLE CURB & GUTTER 4 IN	CENTRAL ISLAND CURB AND GUTTER		CEMENT CONC. PEDESTRIAN CURB	EXTRUDED CURB	CEMENT CONC. SIDEWALK		CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 - MOD	ASPHALT RAMP	CEMENT CONC. SIDEWALK RAMP TYPE 3A - MOD		SEE GENERAL NOTES
		S.Y.		L.F.	L.F.	L.F.	L.F.		L.F.	L.F.	S.Y.		S.Y.		EACH		
P3	B 68+88.0 (13.7' RT)																9
P3	B 68+89.0 (0.0' LT)																9
P3	B 68+93.1 (33.5' RT)								16						1		1, 7
P3	B 68+95.3 (17.2' LT)								16						1		1, 7
P3	B 69+57.3 (8.2' LT) TO A 811+85.4 (42.4' RT)					257											2
P3	B 69+57.3 (12.5' LT)													1			6
P3	B 69+58.3 (28.3' RT)													1			6
P3	B 71+50.0 (21.0' RT)																10
P5	B 59+70.2 TO B 62+00	410															
P5	B 60+90.6 (32.0' LT) TO B 66+05.5 (43.9' LT)			515													1
P5	B 61+43.8 (34.8' RT)																
P5	B 61+43.8 (35.9' RT) TO B 66+06.4 (22.0' RT)			465													1
P5	B 62+81.7 (34.5' LT)												51				5
P5	B 62+85 (34.5' RT)												61				5
P5	B 63+34.8 (4.4' RT) TO B 65+40.1 (2.6' LT)									176							3
P5	B 64+29.3 (33.0' RT)												45				5
P5	B 64+47.7 (69.0' LT) TO A 823+85.9 (84.0' LT)																8
P6	B 71+24.2 (56.0' LT) TO A 813+33.3 (74.9' RT)																8
	SHEET TOTAL	410		980		257			32	176			157	2	2		
	PROJECT TOTAL	3790		980	333	2764	271		128	176			157	6	8		

GENERAL NOTES:

DESIGNED BY				
ENTERED BY		02/09/10		
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S. SPAHR			
REGION ADM.	L. ENG			
		DATE	**DATE**	**REVISION**	**BY**

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

QUANTITY TABULATION - PAVING

QTPV 3
SHEET
OF
SHEETS

QUANTITY TABULATION - PAVING

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

GENERAL NOTES:

CODE	LOCATION ⋎ \ UNIT OF MEASURE ⋗	CEMENT CONC. RAMP	AT GRADE DETECTABLE WARNING		END, GATE, CORNER, AND PULL POST FOR CHAIN LINK FENCE	WIRE FENCE TYPE 2		MAILBOX SUPPORT TYPE 1									SEE GENERAL NOTES
		EACH	S.F.		EACH	L.F.		EACH									
P3	B 68+88.0 (13.7' RT)		20														9
P3	B 68+89.0 (0.0' LT)		20														9
P3	B 68+93.1 (33.5' RT)																1, 7
P3	B 68+95.3 (17.2' LT)																1, 7
P3	B 69+57.3 (8.2' LT) TO A 811+85.4 (42.4' RT)																2
P3	B 69+57.3 (12.5' LT)																6
P3	B 69+58.3 (28.3' RT)																6
P3	B 71+50.0 (21.0' RT)							1									10
P5	B 59+70.2 TO B 62+00				7	1512											
P5	B 60+90.6 (32.0' LT) TO B 66+05.5 (43.9' LT)																1
P5	B 61+43.8 (34.8' RT)																
P5	B 61+43.8 (35.9' RT) TO B 66+06.4 (22.0' RT)																1
P5	B 62+81.7 (34.5' LT)																5
P5	B 62+85 (34.5' RT)																5
P5	B 63+34.8 (4.4' RT) TO B 65+40.1 (2.6' LT)																3
P5	B 64+29.3 (33.0' RT)																5
P5	B 64+47.7 (69.0' LT) TO A 823+85.9 (84.0' LT)				5	553											8
P6	B 71+24.2 (56.0' LT) TO A 813+33.3 (74.9' RT)																8
	SHEET TOTAL		40		12	2065		1									
	PROJECT TOTAL		160		23	3827		2									

DESIGNED BY					
ENTERED BY		02/09/10			
CHECKED BY	J. KORESKI				
PROJ. ENGR.	S. SPAHR				
REGION ADM.	L. ENG				
		DATE	**DATE**	**REVISION**	**BY**

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

Washington State Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

QUANTITY TABULATION - PAVING

QTPV 4
SHEET
OF
SHEETS

LEGEND

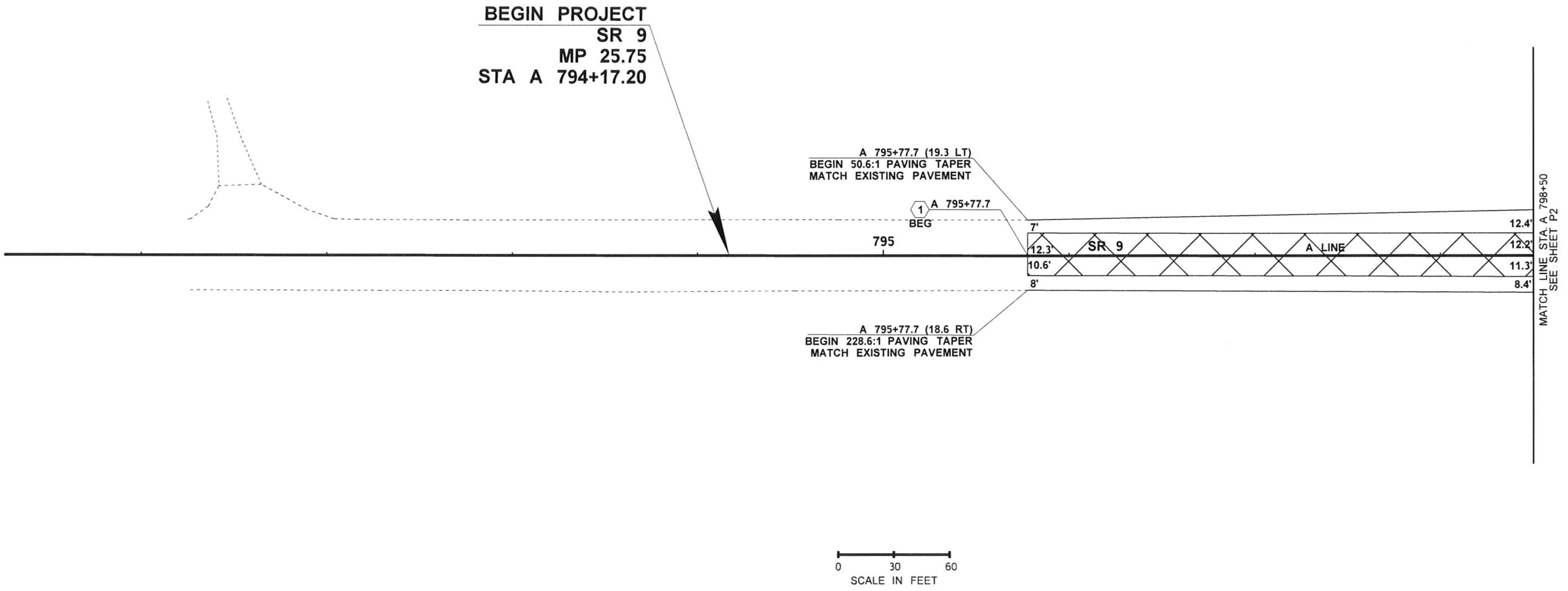
MB	NEW MAIL BOX
⊘	NEW GUIDE POST
———	PAVING LIMIT
- - - - -	EXISTING PAVED EDGE
·········	EXISTING GRAVEL EDGE
—·—·—	EXISTING CURB
—x—x—	NEW FENCE
-x- -x-	EXISTING FENCE
▨	PIGMENTED SPLITTER ISLAND
▦	PIGMENTED TRUCK APRON
⊠	PLANING BITUMINOUS PAVEMENT

T. 31N. R. 5E. W.M.

①	PLANING BITUMINOUS PAVEMENT	⑦	MOUNTABLE CURB & GUTTER 2"
②	CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 MOD.	⑧	MOUNTABLE CURB & GUTTER 4"
③	CEMENT CONC. RAMP TYPE A	⑨	CEMENT CONCRETE TRAFFIC CURB AND GUTTER
④	CEMENT CONC. CURB RAMP TYPE 3B MOD.	⑩	CENTRAL ISLAND CURB AND GUTTER
⑤	CEMENT CONC. RAMP TYPE B	⑪	WIRE FENCE TYPE 2
⑥	AT GRADE DETECTABLE WARNING	⑫	EXTRUDED CURB

GENERAL NOTE:

1. REFER TO PAVING DETAIL SHEETS FOR STATION, OFFSET AND CURB DATA WITHIN THE ROUNDABOUT.
2. REFER TO SHEET PD5 FOR CEMENT CONCRETE JOINTING LAYOUT.



FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING PLAN.dgn			
TIME	9:44:09 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M. GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO. 10
STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING PLAN

Plot 1
PLAN REF NO
P1
SHEET
OF
SHEETS

LEGEND

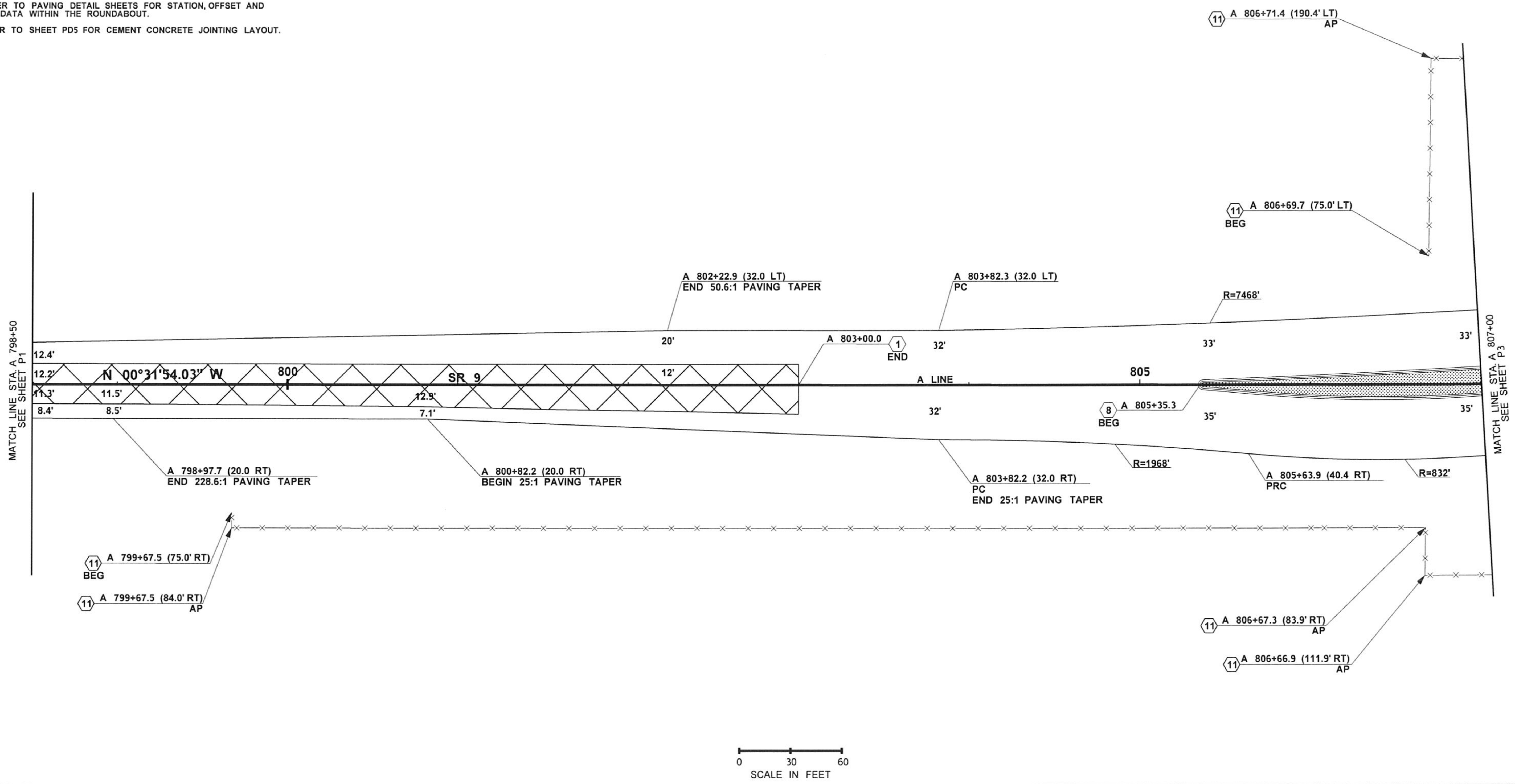
MB	NEW MAIL BOX
⊙	NEW GUIDE POST
———	PAVING LIMIT
- - - - -	EXISTING PAVED EDGE
-----------	EXISTING GRAVEL EDGE
— · — · —	EXISTING CURB
—×—×—	NEW FENCE
×— —×— —×	EXISTING FENCE
▨	PIGMENTED SPLITTER ISLAND
▦	PIGMENTED TRUCK APRON
⊠	PLANING BITUMINOUS PAVEMENT

T. 31N. R. 5E. W.M.

1	PLANING BITUMINOUS PAVEMENT	7	MOUNTABLE CURB & GUTTER 2"
2	CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 MOD.	8	MOUNTABLE CURB & GUTTER 4"
3	CEMENT CONC. RAMP TYPE A	9	CEMENT CONCRETE TRAFFIC CURB AND GUTTER
4	CEMENT CONC. CURB RAMP TYPE 3B MOD.	10	CENTRAL ISLAND CURB AND GUTTER
5	CEMENT CONC. RAMP TYPE B	11	WIRE FENCE TYPE 2
6	AT GRADE DETECTABLE WARNING	12	EXTRUDED CURB

GENERAL NOTE:

1. REFER TO PAVING DETAIL SHEETS FOR STATION, OFFSET AND CURB DATA WITHIN THE ROUNDABOUT.
2. REFER TO SHEET PD5 FOR CEMENT CONCRETE JOINTING LAYOUT.



FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING PLAN.dgn
TIME	9:44:11 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING PLAN

Plot 2
PLAN REF NO
P2
SHEET
OF
SHEETS

LEGEND

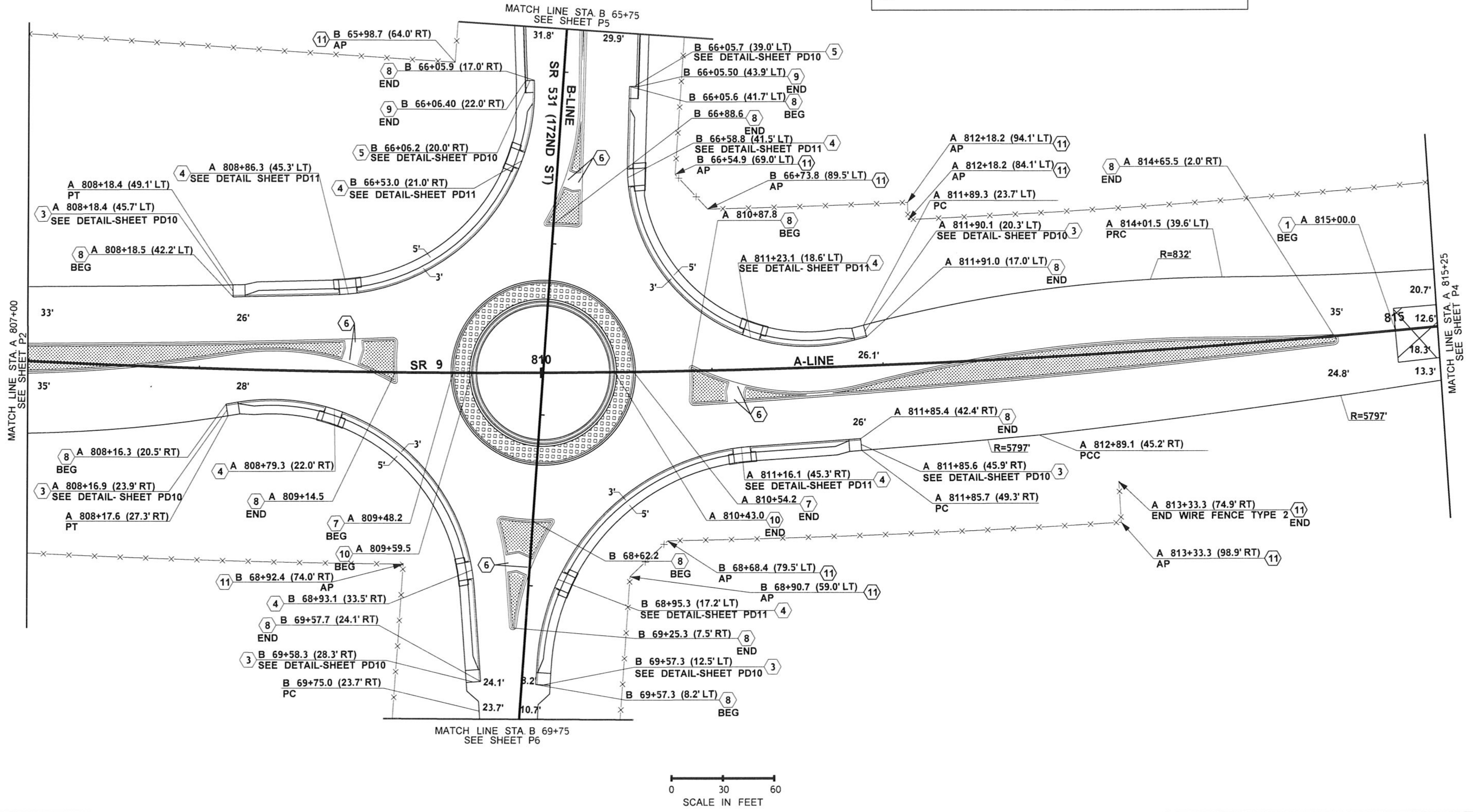
MB	NEW MAIL BOX
⊘	NEW GUIDE POST
———	PAVING LIMIT
- - - - -	EXISTING PAVED EDGE
- - - - -	EXISTING GRAVEL EDGE
— · — · —	EXISTING CURB
—×—×—	NEW FENCE
—×— —×—	EXISTING FENCE
▨	PIGMENTED SPLITTER ISLAND
▦	PIGMENTED TRUCK APRON
▩	PLANING BITUMINOUS PAVEMENT

GENERAL NOTE:

1. REFER TO PAVING DETAIL SHEETS FOR STATION, OFFSET AND CURB DATA WITHIN THE ROUNDABOUT.
2. REFER TO SHEET PD5 FOR CEMENT CONCRETE JOINTING LAYOUT.

T. 31N. R. 5E. W.M.

①	PLANING BITUMINOUS PAVEMENT	⑦	MOUNTABLE CURB & GUTTER 2"
②	CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 MOD.	⑧	MOUNTABLE CURB & GUTTER 4"
③	CEMENT CONC. RAMP TYPE A	⑨	CEMENT CONCRETE TRAFFIC CURB AND GUTTER
④	CEMENT CONC. CURB RAMP TYPE 3B MOD.	⑩	CENTRAL ISLAND CURB AND GUTTER
⑤	CEMENT CONC. RAMP TYPE B	⑪	WIRE FENCE TYPE 2
⑥	AT GRADE DETECTABLE WARNING	⑫	EXTRUDED CURB



FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING PLAN.dgn					
TIME	9:44:12 AM				REGION NO. 10	STATE WASH
DATE	3/24/2010					
PLOTTED BY	gunnm					
DESIGNED BY	M. GUNN				JOB NUMBER	
ENTERED BY	K.SOLWOLD					
CHECKED BY	J. KORESKI				CONTRACT NO.	LOCATION NO.
PROJ. ENGR.	S.SPAHR					
REGIONAL ADM.	L. ENG	REVISION	DATE	BY		

FED.AID PROJ.NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING PLAN

Plot 3
PLAN REF NO
P3
SHEET
OF
SHEETS

LEGEND

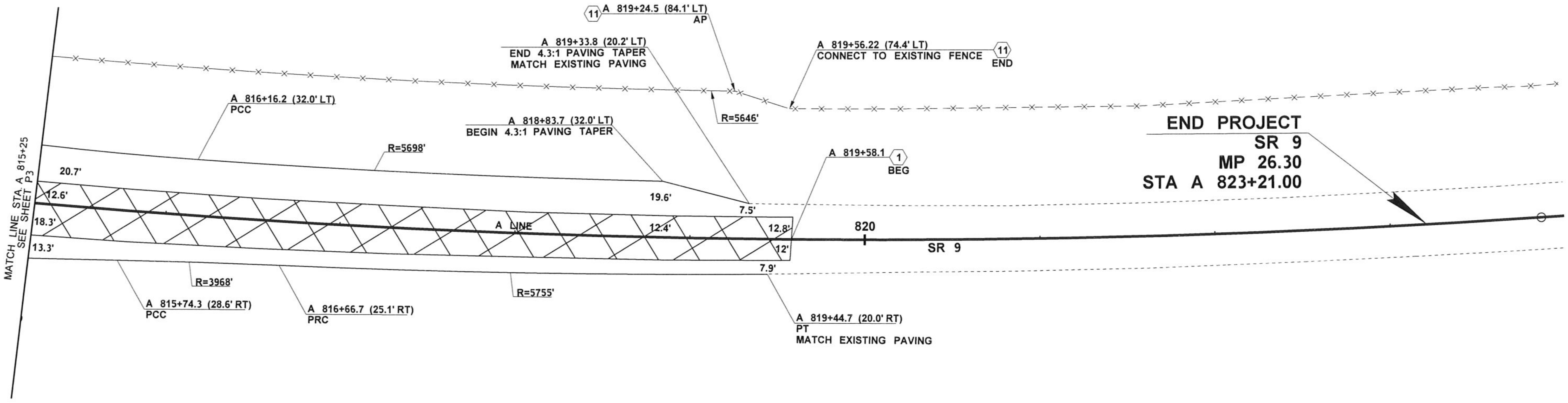
MB	NEW MAIL BOX
⊙	NEW GUIDE POST
———	PAVING LIMIT
- - - - - -	EXISTING PAVED EDGE
....	EXISTING GRAVEL EDGE
—·—·—	EXISTING CURB
—×—×—	NEW FENCE
×— —×— —×	EXISTING FENCE
▨	PIGMENTED SPLITTER ISLAND
▦	PIGMENTED TRUCK APRON
⊠	PLANING BITUMINOUS PAVEMENT

T. 31N. R. 5E. W.M.

①	PLANING BITUMINOUS PAVEMENT	⑦	MOUNTABLE CURB & GUTTER 2"
②	CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 MOD.	⑧	MOUNTABLE CURB & GUTTER 4"
③	CEMENT CONC. RAMP TYPE A	⑨	CEMENT CONCRETE TRAFFIC CURB AND GUTTER
④	CEMENT CONC. CURB RAMP TYPE 3B MOD.	⑩	CENTRAL ISLAND CURB AND GUTTER
⑤	CEMENT CONC. RAMP TYPE B	⑪	WIRE FENCE TYPE 2
⑥	AT GRADE DETECTABLE WARNING	⑫	EXTRUDED CURB

GENERAL NOTE:

1. REFER TO PAVING DETAIL SHEETS FOR STATION, OFFSET AND CURB DATA WITHIN THE ROUNDABOUT.
2. REFER TO SHEET PD5 FOR CEMENT CONCRETE JOINTING LAYOUT.



0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING PLAN.dgn				
TIME	9:44:14 AM				
DATE	3/24/2010				
PLOTTED BY	gunnm				
DESIGNED BY	M. GUNN				
ENTERED BY	K.SOLWOLD				
CHECKED BY	J. KORESKI				
PROJ. ENGR.	S.SPAHR				
REGIONAL ADM.	L. ENG	REVISION	DATE	BY	

REGION NO. 10 STATE WASH FED.AID PROJ.NO.

JOB NUMBER

CONTRACT NO. LOCATION NO.

DATE P.E. STAMP BOX

DATE P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING PLAN

Plot 4
PLAN REF NO
P4
SHEET
OF
SHEETS

LEGEND

MB	NEW MAIL BOX
⊙	NEW GUIDE POST
———	PAVING LIMIT
- - - - -	EXISTING PAVED EDGE
··········	EXISTING GRAVEL EDGE
—·—·—	EXISTING CURB
—×—×—	NEW FENCE
—×— —×—	EXISTING FENCE
▨	PIGMENTED SPLITTER ISLAND
▦	PIGMENTED TRUCK APRON
⊠	PLANING BITUMINOUS PAVEMENT

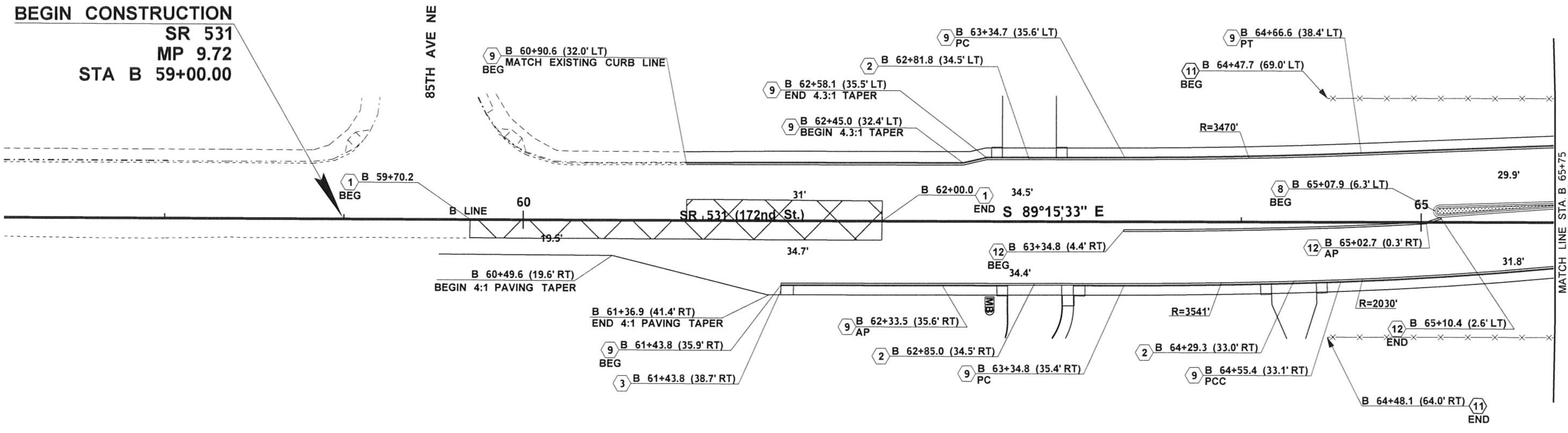
T. 31N. R. 5E. W.M.

①	PLANING BITUMINOUS PAVEMENT	⑦	MOUNTABLE CURB & GUTTER 2"
②	CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 MOD.	⑧	MOUNTABLE CURB & GUTTER 4"
③	CEMENT CONC. RAMP TYPE A	⑨	CEMENT CONCRETE TRAFFIC CURB AND GUTTER
④	CEMENT CONC. CURB RAMP TYPE 3B MOD.	⑩	CENTRAL ISLAND CURB AND GUTTER
⑤	CEMENT CONC. RAMP TYPE B	⑪	WIRE FENCE TYPE 2
⑥	AT GRADE DETECTABLE WARNING	⑫	EXTRUDED CURB

GENERAL NOTE:

1. REFER TO PAVING DETAIL SHEETS FOR STATION, OFFSET AND CURB DATA WITHIN THE ROUNDABOUT.

2. REFER TO SHEET PD5 FOR CEMENT CONCRETE JOINTING LAYOUT.



0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING PLAN.dgn							
TIME	9:44:15 AM				REGION NO.	STATE	FED.AID PROJ.NO.	
DATE	3/24/2010				10	WASH		
PLOTTED BY	gunnm							
DESIGNED BY	M. GUNN				JOB NUMBER			
ENTERED BY	K.SOLWOLD							
CHECKED BY	J. KORESKI				CONTRACT NO.		LOCATION NO.	
PROJ. ENGR.	S.SPAHR							
REGIONAL ADM.	L. ENG	REVISION	DATE	BY				

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING PLAN

Plot 5
PLAN REF NO
P5
SHEET
OF
SHEETS

LEGEND

MB	NEW MAIL BOX
⊘	NEW GUIDE POST
———	PAVING LIMIT
- - - - -	EXISTING PAVED EDGE
- - - - -	EXISTING GRAVEL EDGE
— · — · —	EXISTING CURB
-×——×——×-	NEW FENCE
-×— —×— —×-	EXISTING FENCE
▒	PIGMENTED SPLITTER ISLAND
▦	PIGMENTED TRUCK APRON
▨	PLANING BITUMINOUS PAVEMENT

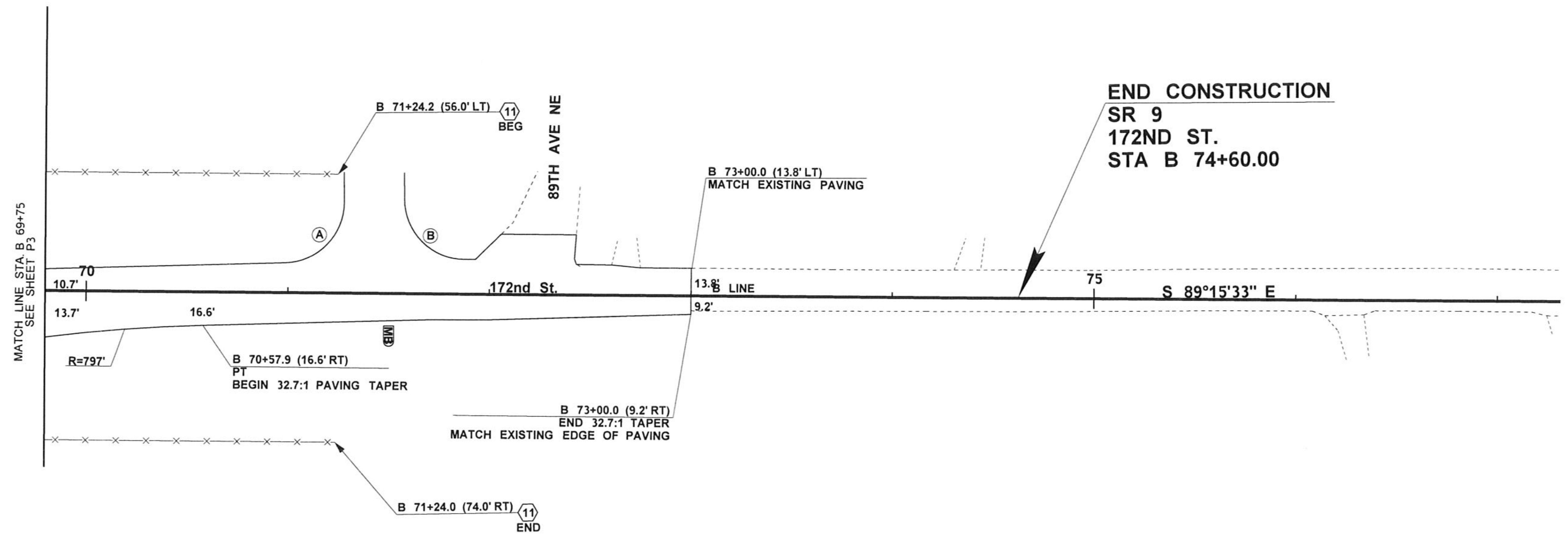
GENERAL NOTE:

1. REFER TO PAVING DETAIL SHEETS FOR STATION, OFFSET AND CURB DATA WITHIN THE ROUNDABOUT.

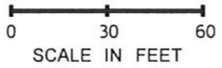
2.REFER TO SHEET PD5 FOR CEMENT CONCRETE JOINTING LAYOUT.

T. 31N. R. 5E. W.M.

①	PLANING BITUMINOUS PAVEMENT	⑦	MOUNTABLE CURB & GUTTER 2"
②	CEMENT CONC. DRIVEWAY ENTRANCE TYPE 1 MOD.	⑧	MOUNTABLE CURB & GUTTER 4"
③	CEMENT CONC. RAMP TYPE A	⑨	CEMENT CONCRETE TRAFFIC CURB AND GUTTER
④	CEMENT CONC. CURB RAMP TYPE 3B MOD.	⑩	CENTRAL ISLAND CURB AND GUTTER
⑤	CEMENT CONC. RAMP TYPE B	⑪	WIRE FENCE TYPE 2
⑥	AT GRADE DETECTABLE WARNING	⑫	EXTRUDED CURB



CURVE DATA					
Ⓐ	STATION	OFFSET	Ⓑ	STATION	OFFSET
PT	70+98.4	14.8' LT	PT	71+57.4	46.9' LT
PC	71+27.4	45.2' LT	PC	71+87.6	17.3' LT
CC	70+97.4	44.8' LT	CC	70+87.4	47.3' LT
RAD	30'		RAD	30'	



FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING PLAN.dgn
TIME	9:44:16 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

DATE
P.E. STAMP BOX

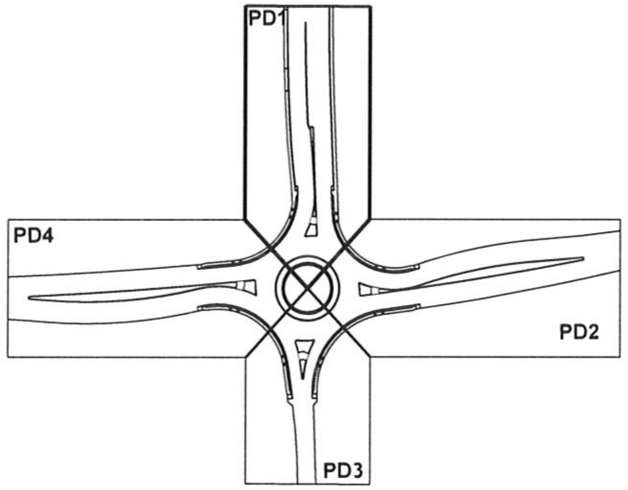
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

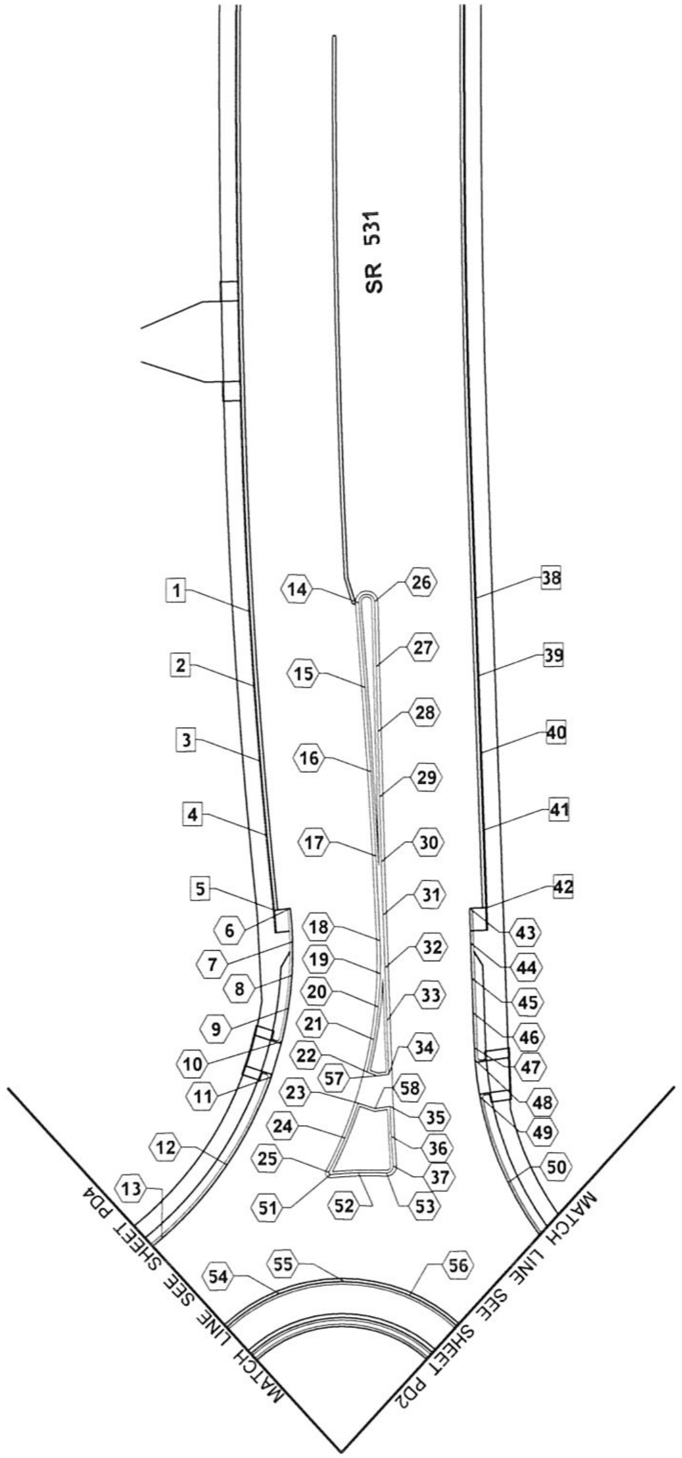
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING PLAN

Plot 6
PLAN REF NO
P6
SHEET
OF
SHEETS



SHEET INDEX



SR531

GENERAL NOTES:

1. POINT INFORMATION PROVIDED IS FOR THE FLOW LINE AT THE FACE OF CURB. SEE SHEET PD13 FOR CURB DETAIL.
2. REFER TO PAVING PLANS FOR PAVING WIDTHS.
3. SEE ROADWAY SECTION SHEETS FOR CENTER ISLAND DETAIL.
4. SEE SHEETS QTPXX-QTPXX FOR CURB QUANTITIES.

LEGEND

☐	TRAFFIC CURB & GUTTER
○	EDGE OF PAVED SHOULDER
⬡	MOUNTABLE CURB & GUTTER

0 30 60
SCALE IN FEET

B LINE POINT TABLE

POINT #	POINT DESCRIPTION	STATION	OFFSET	ELEV.	RADIUS
1	POC	65+13.5	30.2' RT	417.021	2,030'
2	POC	65+36.8	28.5' RT	418.131	2,030'
3	POC	65+60.1	26.6' RT	419.137	2,030'
4	POC	65+83.3	24.4' RT	420.037	2,030'
5	PT	66+06.5	22.0' RT	421.217	2,030'
6	PC	66+05.9	17.0' RT	421.05	119'
7	1/4	66+16.4	16.3' RT	421.391	119'
8	1/2	66+26.8	16.4' RT	421.752	119'
9	3/4	66+37.2	17.5' RT	422.087	119'
10	PT/PC	66+47.4	19.5' RT	422.387	119'
11	1/4	66+58.6	22.8' RT	422.681	119'
12	1/2	66+86.1	36.5' RT	423.271	119'
13	3/4	67+09.1	56.8' RT	423.59	119'
14	PC	65+10.6	3.7' LT	417.664	300'
15	1/4	65+36.9	5.9' LT	418.941	300'
16	1/2	65+63.2	7.8' LT	420.069	300'
17	3/4	65+89.5	9.5' LT	421.045	300'
18	PT/PC	66+15.9	11.0' LT	421.87	300'
19	1/4	66+26.3	11.2' LT	422.165	142'
20	1/2	66+36.6	10.6' LT	422.438	142'
21	3/4	66+46.9	9.2' LT	422.689	142'
22	PT	66+57.0	7.1' LT	422.917	142'
23	PC	66+66.6	4.4' LT	423.114	142'
24	1/2	66+77.6	0.4' LT	423.299	142'
25	PT	66+88.3	4.6' RT	423.498	142'
26	PT	65+10.2	8.7' LT	417.565	
27	PT	65+30.5	9.4' LT	418.53	
28	PT	65+50.7	10.0' LT	419.489	
29	PT	65+71.0	10.7' LT	420.261	
30	PT	65+91.3	11.3' LT	421.033	
31	PT	66+07.9	12.0' LT	421.585	
32	PT	66+24.5	12.7' LT	422.051	
33	PT	66+41.0	13.3' LT	422.517	
34	PT	66+57.6	14.0' LT	422.925	
35	PC	66+67.7	14.4' LT	423.131	651'
36	1/2	66+77.0	14.9' LT	423.321	651'
37	PT	66+86.3	15.5' LT	423.511	651'
38	PT	65+09.2	40.1' LT	416.938	
39	PT	65+33.3	41.0' LT	418.081	
40	PT	65+57.3	42.0' LT	419.145	
41	PT	65+81.4	43.0' LT	420.059	
42	PT	66+05.5	43.9' LT	421.562	
43	PT	66+05.7	38.9' LT	421.014	
44	PT	66+16.6	39.4' LT	421.32	
45	PT	66+27.5	39.8' LT	421.626	
46	PT	66+38.3	40.2' LT	421.931	
47	PT/PC	66+49.2	40.7' LT	422.215	105'
48	PT	66+53.0	40.9' LT	422.306	105'
49	PC	66+64.5	42.4' LT	422.59	105'
50	1/4	66+91.3	51.3' LT	423.326	111'
51	PC	66+89.0	4.1' RT	423.516	111'
52	1/2	66+88.4	4.7' LT	423.533	111'
53	PT	66+88.4	13.4' LT	423.553	111'
54	POC	67+26.2	19.8' RT	424.174	53'
55	POC	67+22.4	0.5' LT	424.204	53'
56	POC	67+26.6	20.7' LT	424.399	53'
57	AP	66+58.1	10.5' LT	422.937	
58	AP	66+68.3	9.7' LT	423.146	

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING DETAILS.dgn
TIME	9:38:32 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.LAMAY
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

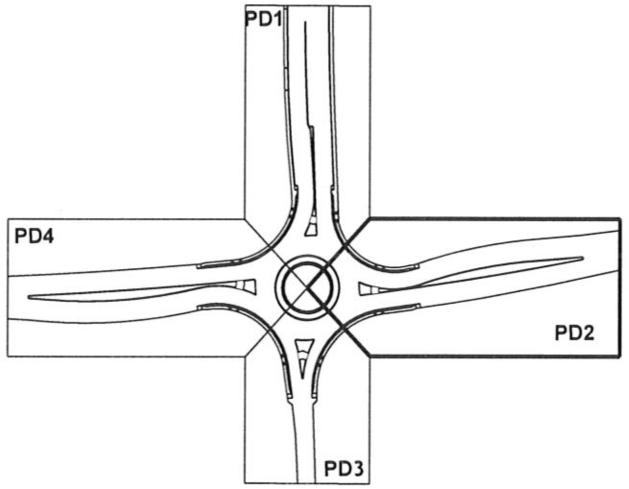
Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

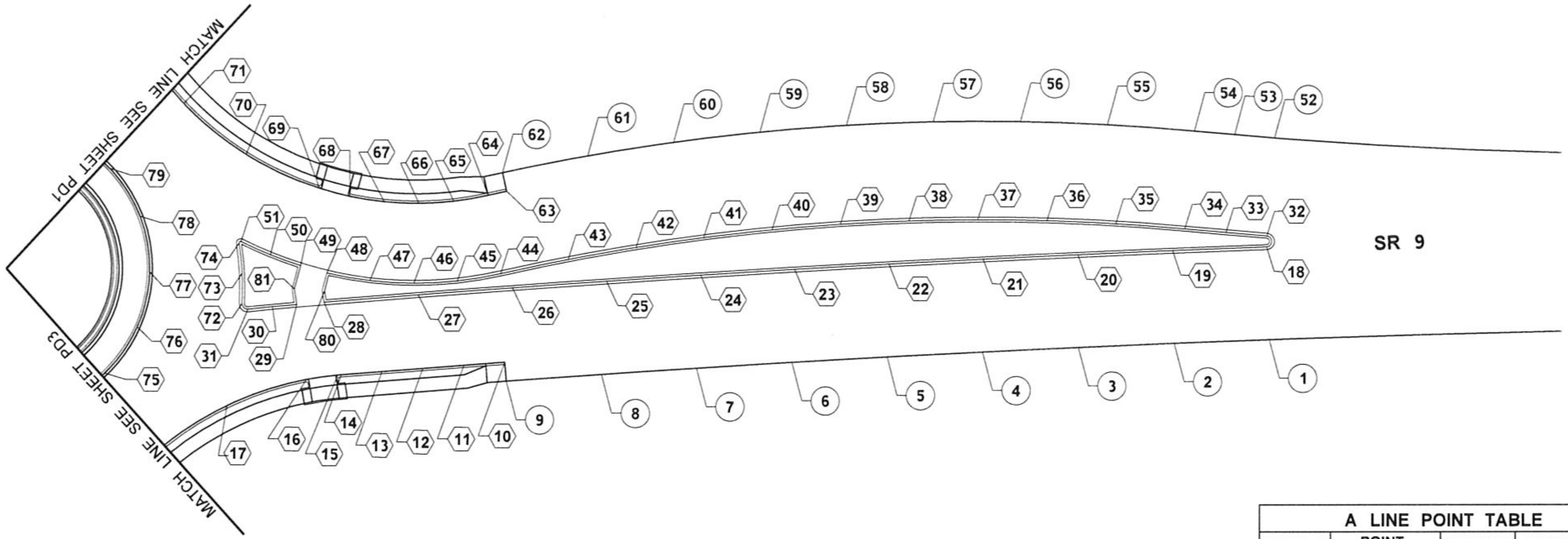
PAVING DETAIL

Plot 1
PLAN REF NO
PD1

SHEET
OF
SHEETS



SHEET INDEX



A LINE POINT TABLE

POINT #	POINT DESCRIPTION	STATION	OFFSET	ELEV.	RADIUS
1	POC	805+36.2	36.0' LT	424.7	7,468'
2	POC	805+71.3	37.3' LT	424.5	7,468'
3	POC	806+06.4	38.9' LT	424.2	7,468'
4	POC	806+41.5	40.5' LT	424.0	7,468'
5	POC	806+76.7	42.4' LT	423.7	7,468'
6	POC	807+12.1	44.1' LT	423.5	7,468'
7	POC	807+47.4	45.9' LT	423.2	7,468'
8	POC	807+82.8	47.5' LT	422.9	7,468'
9	PT	808+18.2	49.1' LT	422.8	7,468'
10	PC	808+18.5	42.2' LT	422.9	7,475'
11	1/4	808+33.7	42.8' LT	422.9	7,475'
12	1/2	808+48.8	43.5' LT	423.0	7,475'
13	3/4	808+64.0	44.2' LT	423.1	7,475'
14	PT/PC	808+79.2	44.8' LT	423.3	7,475'
15	PT	808+80.5	44.9' LT	423.3	119'
16	PC	808+92.1	46.0' LT	423.4	119'
17	1/4	809+21.9	54.4' LT	423.6	119'
18	PC	805+37.2	2.0' LT	425.4	7,502'
19	1/10	805+71.9	3.3' LT	425.2	7,502'
20	1/5	806+06.6	4.8' LT	425.0	7,502'
21	3/10	806+41.3	6.5' LT	424.7	7,502'
22	2/5	806+76.0	8.3' LT	424.4	7,502'
23	1/2	807+10.7	10.0' LT	424.2	7,502'
24	3/5	807+45.5	11.7' LT	423.9	7,502'
25	7/10	807+80.2	13.4' LT	423.7	7,502'
26	4/5	808+15.0	15.0' LT	423.5	7,502'
27	9/10	808+49.8	16.5' LT	423.5	7,502'
28	PT	808+84.6	18.0' LT	423.7	7,502'
29	PC	808+94.6	18.4' LT	423.9	626'
30	1/2	809+04.4	18.9' LT	424.0	626'
31	PT	809+12.6	19.4' LT	424.1	626'
32	PC	805+37.2	2.0' RT	425.4	2,004'
33	1/2	805+52.3	3.2' RT	425.3	2,004'
34	PT/PC	805+67.5	4.6' RT	425.2	2,004'
35	1/10	805+92.8	6.5' RT	425.1	799'
36	1/5	806+18.0	7.7' RT	424.9	799'
37	3/10	806+43.3	8.0' RT	424.7	799'
38	2/5	806+68.6	7.5' RT	424.5	799'
39	1/2	806+93.8	6.4' RT	424.3	799'
40	3/5	807+19.0	4.6' RT	424.1	799'
41	7/10	807+44.2	2.0' RT	423.9	799'
42	4/5	807+69.3	1.2' LT	423.7	799'
43	9/10	807+94.3	5.1' LT	423.7	799'
44	PT/PC	808+19.2	9.6' LT	423.5	799'
45	1/4	808+35.2	11.8' LT	423.5	142'
46	1/2	808+51.3	12.2' LT	423.6	142'
47	3/4	808+67.4	10.7' LT	423.7	142'
48	PT	808+83.1	7.3' RT	423.9	142'
49	PC	808+92.7	4.3' LT	424.1	142'
50	1/2	809+04.1	0.2' RT	424.3	142'
51	PT	809+14.1	5.5' RT	424.5	142'
52	POC	805+34.4	37.9' RT	424.7	1,960'
53	POC	805+49.2	39.1' RT	424.6	1,960'
54	PT/PC	805+63.9	40.4' RT	424.5	1,960'
55	1/8	805+95.8	42.8' RT	424.3	832'
56	1/4	806+27.8	43.9' RT	424.1	832'
57	3/8	806+59.8	43.8' RT	423.8	832'
58	1/2	806+91.5	42.6' RT	423.6	832'
59	5/8	807+23.2	40.4' RT	423.4	832'
60	3/4	807+54.8	37.1' RT	423.2	832'
61	7/8	807+86.2	32.7' RT	422.9	832'

A LINE POINT TABLE

POINT #	POINT DESCRIPTION	STATION	OFFSET	ELEV.	RADIUS
62	PT	808+17.6	27.3' RT	422.8	832'
63	PC	808+16.3	20.5' RT	422.9	825'
64	PT/PC	808+23.1	19.1' RT	422.9	825'
65	1/4	808+35.8	17.4' RT	422.9	119'
66	1/2	808+48.5	17.0' RT	423.0	119'
67	3/4	808+61.2	18.0' RT	423.1	119'
68	PT	808+73.8	20.5' RT	423.2	119'
69	1/4	808+84.8	23.8' RT	423.4	119'
70	PC	809+11.0	37.3' RT	424.4	119'
71	1/2	809+33.0	57.0' RT	425.1	119'
72	PC	809+14.8	17.2' LT	424.2	111'
73	1/2	809+14.3	6.1' LT	424.3	111'
74	PT	809+14.9	5.0' LT	424.5	111'
75	POC	809+66.7	40.3' LT	424.3	53'
76	POC	809+53.9	24.0' LT	424.6	53'
77	POC	809+48.3	4.1' LT	425.0	53'
78	POC	809+50.9	16.4' RT	424.4	53'
79	POC	809+61.0	34.4' RT	425.8	53'
80	AP	808+84.3	13.8' LT	423.8	
81	AP	808+96.2	12.7' LT	424.0	

GENERAL NOTES:

1. POINT INFORMATION PROVIDED IS FOR THE FLOW LINE AT THE FACE OF CURB. SEE SHEET PD13 FOR CURB DETAIL.
2. REFER TO PAVING PLANS FOR PAVING WIDTHS.
3. SEE ROADWAY SECTION SHEETS FOR CENTER ISLAND DETAIL.
4. SEE SHEETS QTPXX-QTPXX FOR CURB QUANTITIES.

LEGEND

☐	TRAFFIC CURB & GUTTER
○	EDGE OF PAVED SHOULDER
⬡	MOUNTABLE CURB & GUTTER

0 30 60
SCALE IN FEET

SOUTH SR9

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING DETAILS.dgn
TIME	9:38:35 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.LAMAY
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

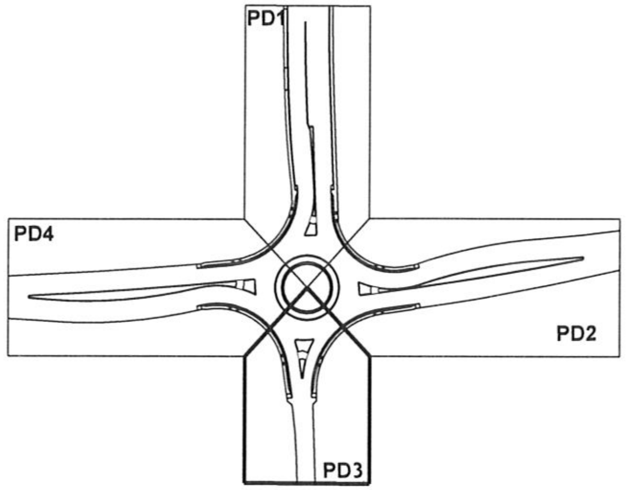
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING DETAIL

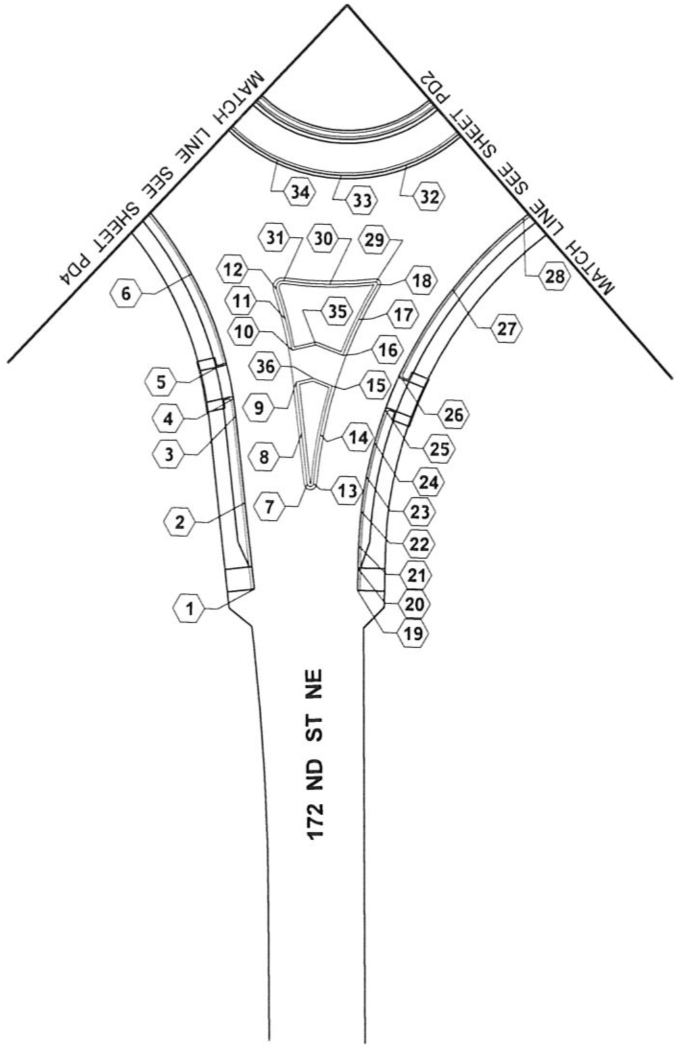
Plot 2

PLAN REF NO
PD2

SHEET
OF
SHEETS



SHEET INDEX



N

GENERAL NOTES:

1. POINT INFORMATION PROVIDED IS FOR THE FLOW LINE AT THE FACE OF CURB. SEE SHEET PD13 FOR CURB DETAIL.
2. REFER TO PAVING PLANS FOR PAVING WIDTHS.
3. SEE ROADWAY SECTION SHEETS FOR CENTER ISLAND DETAIL.
4. SEE SHEETS QTPXX-QTPXX FOR CURB QUANTITIES.

LEGEND

☐	TRAFFIC CURB & GUTTER
○	EDGE OF PAVED SHOULDER
⬡	MOUNTABLE CURB & GUTTER

0 30 60
SCALE IN FEET

172ND ST NE

B LINE POINT TABLE

POINT #	POINT DESCRIPTION	STATION	OFFSET	ELEV.	RADIUS
1	PT	69+57.7	24.1' RT	427.8	
2	PT	69+30.9	27.8' RT	426.5	
3	PC	69+04.0	31.5' RT	425.8	119'
4	PT	68+98.7	32.3' RT	425.7	119'
5	PC	68+87.5	35.0' RT	425.5	119'
6	1/4	68+60.3	46.6' RT	425.2	119'
7	PT	69+24.4	8.5' RT	426.8	
8	PT	69+08.7	10.6' RT	426.3	
9	PT	68+93.0	12.8' RT	425.9	130'
10	PC	68+83.1	14.5' RT	425.7	130'
11	1/2	68+73.6	16.8' RT	425.6	130'
12	PT	68+64.3	19.8' RT	425.6	130'
13	PC	69+24.3	6.5' RT	426.7	142'
14	1/2	69+08.9	4.8' RT	426.3	142'
15	PT	68+93.8	1.5' RT	426.0	142'
16	PC	68+84.3	1.5' LT	425.8	142'
17	1/2	68+72.9	6.1' LT	425.8	142'
18	PT	68+61.9	11.7' LT	425.7	142'
19	PC	69+57.3	8.2' LT	427.9	787'
20	1/2	69+50.3	8.2' LT	427.5	787'
21	PT/PC	69+43.3	8.3' LT	427.2	787'
22	1/4	69+32.5	8.7' LT	426.7	135'
23	1/2	69+21.7	10.0' LT	426.3	135'
24	3/4	69+11.1	12.2' LT	425.9	135'
25	PT	69+00.7	15.2' LT	425.6	135'
26	PC	68+89.9	19.4' LT	425.4	135'
27	1/4	68+62.7	35.3' LT	425.6	135'
28	1/2	68+39.9	57.0' LT	425.6	135'
29	PC	68+61.2	11.2' LT	425.7	111'
30	1/2	68+62.3	3.3' RT	425.7	111'
31	PT	68+61.6	17.7' RT	425.6	111'
32	POC	68+24.6	19.8' LT	426.4	53'
33	POC	68+28.4	0.5' RT	426.4	53'
34	POC	68+24.2	20.7' RT	426.2	53'
35	AP	68+81.2	7.1' RT	425.7	
36	AP	68+91.6	7.6' RT	425.9	

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING DETAILS.dgn
TIME	9:38:39 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.LAMAY
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

P.E. STAMP BOX
DATE

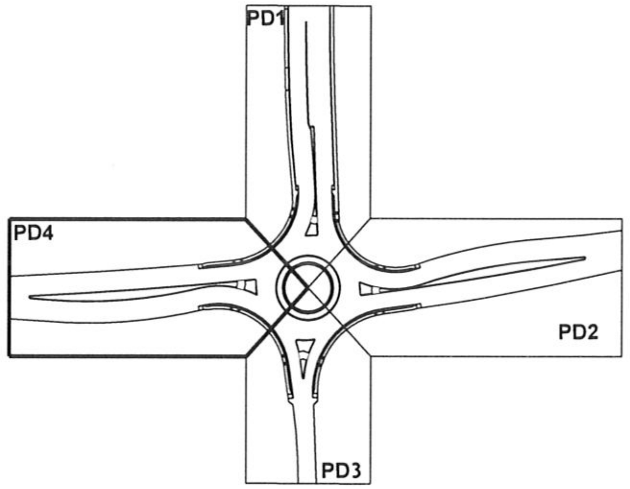
P.E. STAMP BOX
DATE

Washington State
Department of Transportation

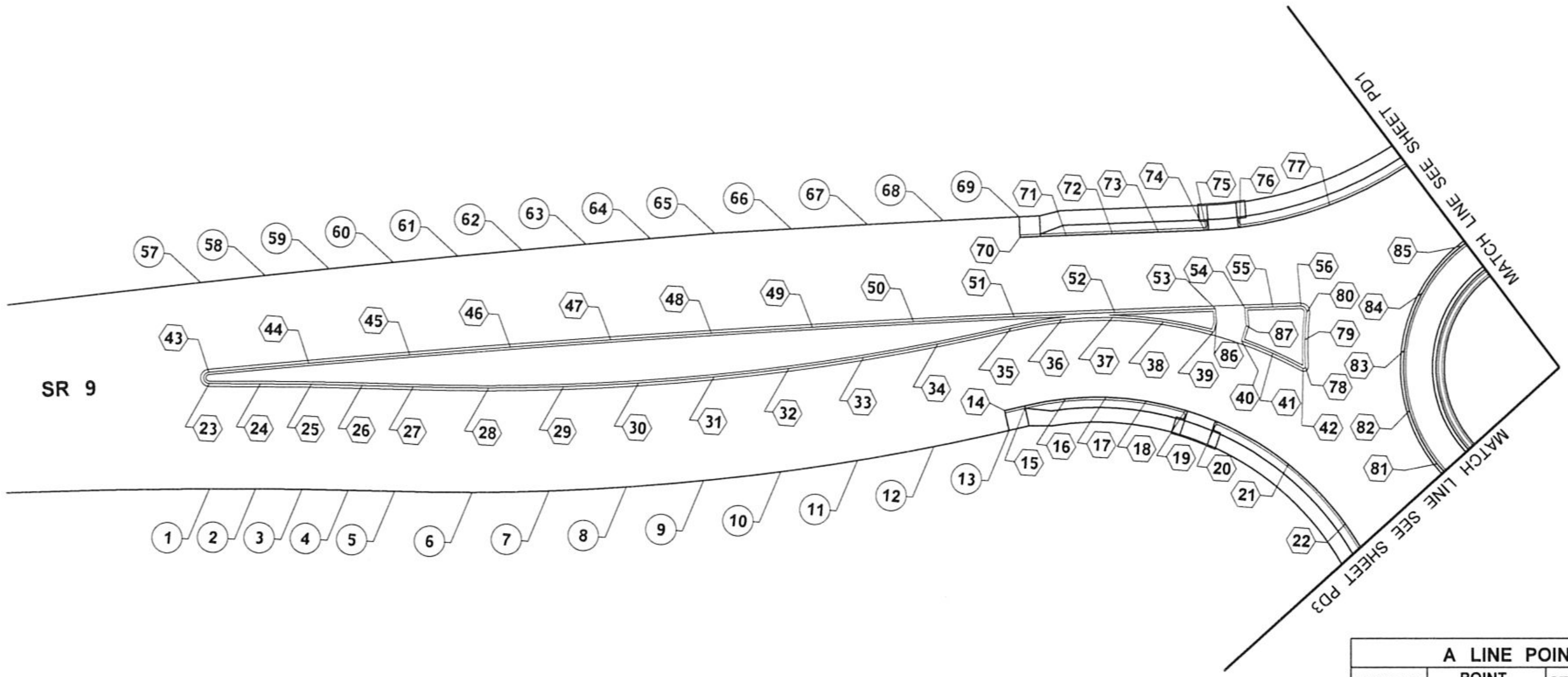
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING DETAIL

Plot 3
PLAN REF NO
PD3
SHEET
OF
SHEETS



SHEET INDEX



NORTH SR9

GENERAL NOTES:

1. POINT INFORMATION PROVIDED IS FOR THE FLOW LINE AT THE FACE OF CURB. SEE SHEET PD13 FOR CURB DETAIL.
2. REFER TO PAVING PLANS FOR PAVING WIDTHS.
3. SEE ROADWAY SECTION SHEETS FOR CENTER ISLAND DETAIL.
4. SEE SHEETS QTPXX-QTPXX FOR CURB QUANTITIES.

LEGEND

☐ TRAFFIC CURB & GUTTER
○ EDGE OF PAVED SHOULDER
⬡ MOUNTABLE CURB & GUTTER

0 30 60
SCALE IN FEET

A LINE POINT TABLE

POINT #	POINT DESCRIPTION	STATION	OFFSET	ELEV.	RADIUS
1	POC	814+65.4	35.7' LT	419.5	1,968'
2	POC	814+49.4	36.6' LT	419.6	1,968'
3	POC	814+33.5	37.5' LT	419.7	1,968'
4	POC	814+17.5	38.5' LT	419.9	1,968'
5	PT/PC	814+01.5	39.6' LT	420.0	1,968'
6	1/8	813+74.9	41.0' LT	420.2	832'
7	1/4	813+48.1	41.4' LT	420.4	832'
8	3/8	813+21.4	40.9' LT	420.6	832'
9	1/2	812+94.8	39.4' LT	420.9	832'
10	5/8	812+68.2	36.9' LT	421.1	832'
11	3/4	812+41.7	33.5' LT	421.4	832'
12	7/8	812+15.4	29.1' LT	421.7	832'
13	PT	811+89.3	23.7' LT	422.1	832'
14	PC	811+90.9	16.9' LT	422.3	
15	PT/PC	811+83.6	15.2' LT	422.6	105'
16	1/4	811+69.9	12.9' LT	422.8	105'
17	1/2	811+56.0	12.4' LT	423.1	105'
18	3/4	811+42.2	13.7' LT	423.4	105'
19	PT	811+28.6	16.8' LT	423.8	105'
20	PC	811+17.7	20.7' LT	424.0	105'
21	1/4	810+93.1	35.0' LT	424.2	105'
22	1/2	810+73.2	55.2' LT	423.9	105'
23	PC	814+63.6	0.2' LT	420.1	2,007'
24	1/4	814+46.1	0.7' LT	420.3	2,007'
25	1/2	814+28.7	1.7' LT	420.5	2,007'
26	3/4	814+11.2	2.8' LT	420.6	2,007'
27	PT/PC	813+93.7	4.0 LT	420.8	2,007'
28	1/8	813+67.9	5.4' LT	421.0	800'
29	1/4	813+42.1	5.9' LT	421.2	800'
30	3/8	813+16.3	5.4' LT	421.4	800'
31	1/2	812+90.5	3.9' LT	421.6	800'
32	5/8	812+64.8	1.5' LT	421.9	800'
33	3/4	812+39.2	1.8' RT	422.2	800'
34	7/8	812+13.8	6.1' RT	422.5	800'
35	PT/PC	811+88.6	11.3' RT	422.9	800'
36	1/4	811+71.3	14.1' RT	423.2	142'
37	1/2	811+53.8	14.9' RT	423.5	142'
38	3/4	811+36.4	13.5' RT	423.9	142'
39	PT	811+19.3	10.0' RT	424.2	142'
40	PC	811+09.7	7.1' RT	424.4	142'
41	1/2	810+98.9	2.9' RT	424.6	142'
42	PT	810+88.4	2.1' LT	424.8	142'
43	PC	814+63.6	4.2' RT	420.2	5,763'
44	1/10	814+29.1	5.6' RT	420.4	5,763'
45	1/5	813+94.6	7.0' RT	420.7	5,763'
46	3/10	813+60.0	8.3' RT	421.0	5,763'
47	2/5	813+25.5	9.7' RT	421.3	5,763'
48	1/2	812+91.0	11.1' RT	421.6	5,763'
49	3/5	812+56.5	12.5' RT	422.0	5,763'
50	7/10	812+22.0	13.9' RT	422.4	5,763'
51	4/5	811+87.5	15.2' RT	422.9	5,763'
52	9/10	811+53.1	16.6' RT	423.5	5,763'
53	PT	811+18.6	18.0' RT	424.2	5,763'
54	PC	811+08.6	18.4' RT	424.4	5,763'
55	1/2	810+99.1	18.8' RT	424.7	5,763'
56	PT	810+89.5	19.2' RT	424.9	5,763'
57	POC	814+64.9	35.0' RT	419.9	5,797'
58	POC	814+42.9	36.2' RT	420.0	5,797'
59	POC	814+20.9	37.5' RT	420.1	5,797'
60	POC	813+98.9	38.8' RT	420.1	5,797'
61	POC	813+76.9	40.1' RT	420.2	5,797'
62	POC	813+55.0	41.4' RT	420.4	5,797'
63	POC	813+33.0	42.6' RT	420.6	5,797'
64	POC	813+11.0	43.9' RT	420.7	5,797'
65	PC	814+65.5	45.2' RT	420.9	5,797'
66	1/4	812+63.2	46.2' RT	421.2	5,797'
67	1/2	812+37.4	47.3' RT	421.5	5,797'
68	3/4	812+11.5	48.3' RT	421.9	5,790'
69	PT	811+85.7	49.3' RT	422.3	5,790'
70	PC	811+85.4	42.4' RT	422.5	5,790'
71	1/4	811+69.7	43.0' RT	422.7	5,790'
72	1/2	811+54.0	43.6' RT	423.0	5,790'
73	3/4	811+38.2	44.2' RT	423.3	5,790'
74	PT/PC	811+22.5	44.9' RT	423.6	5,790'
75	PT	811+21.9	44.9' RT	423.6	5,790'
76	PC	811+10.4	45.9' RT	423.9	135'
77	1/4	810+80.2	53.8' RT	425.0	135'
78	PC	810+87.7	1.6' LT	424.8	111'
79	1/2	810+88.0	7.7' RT	424.9	53'
80	PT	810+87.5	17.0' RT	425.0	53'
81	POC	810+41.9	34.2' LT	424.7	53'
82	POC	810+51.8	16.0' LT	425.1	53'
83	POC	810+54.0	4.6' RT	425.6	53'
84	POC	810+48.2	24.4' RT	426.0	53'
85	POC	810+35.3	40.5' RT	426.2	53'
86	AP	811+18.2	13.4' RT	424.2	
87	AP	811+08.1	12.3' RT	424.4	

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING DETAILS.dgn				
TIME	9:38:42 AM				
DATE	3/24/2010				
PLOTTED BY	gunnm				
DESIGNED BY	M.LAMAY				
ENTERED BY	K.SOLWOLD				
CHECKED BY	J.KORESKI				
PROJ. ENGR.	S.SPAHR				
REGIONAL ADM.	L.ENG	REVISION	DATE	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

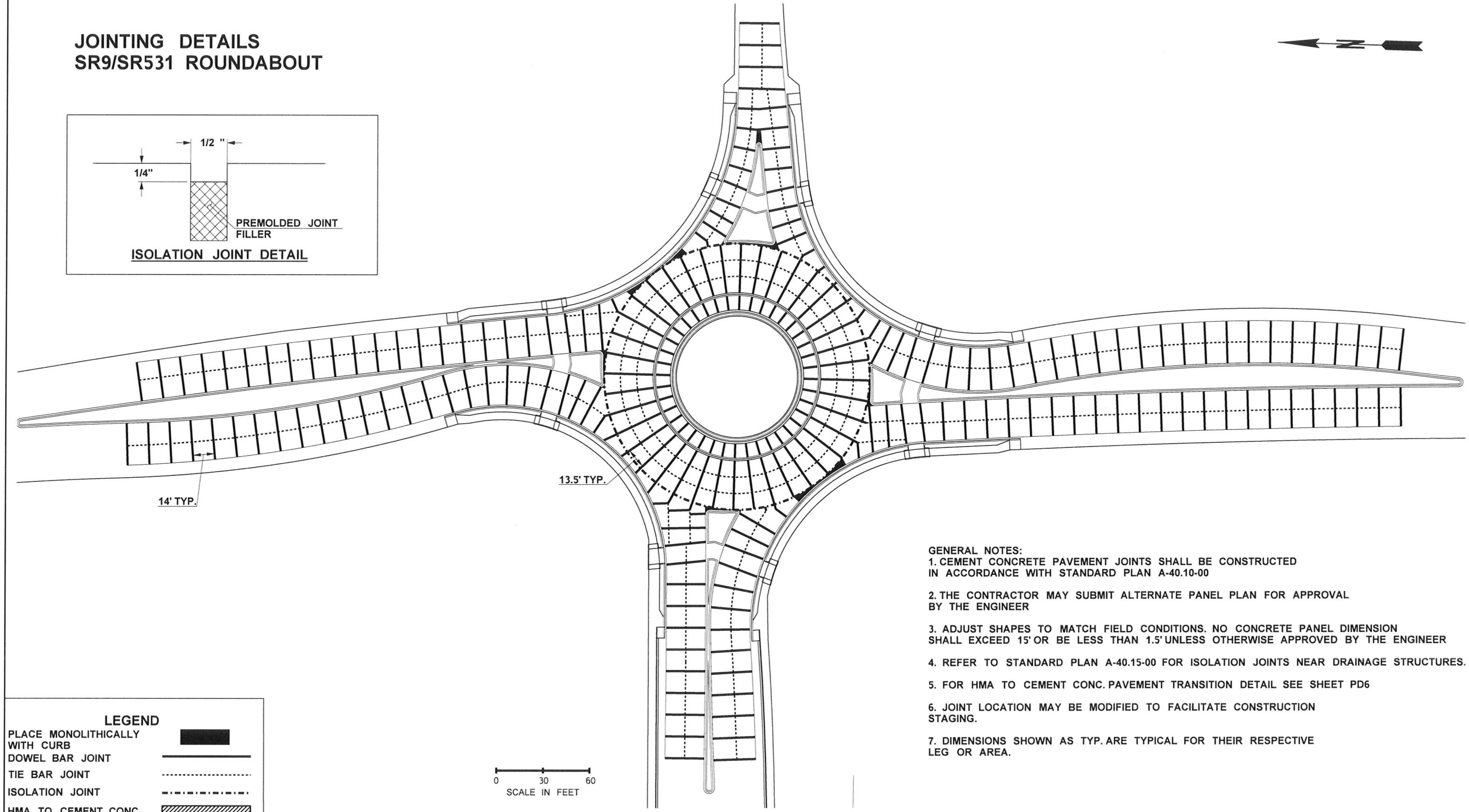
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING DETAIL

Plot 4
PLAN REF NO
PD4
SHEET
OF
SHEETS

JOINTING DETAILS
SR9/SR531 ROUNDABOUT

ISOLATION JOINT DETAIL



GENERAL NOTES:

1. CEMENT CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD PLAN A-40.10-00

2. THE CONTRACTOR MAY SUBMIT ALTERNATE PANEL PLAN FOR APPROVAL BY THE ENGINEER

3. ADJUST SHAPES TO MATCH FIELD CONDITIONS. NO CONCRETE PANEL DIMENSION SHALL EXCEED 15' OR BE LESS THAN 1.5' UNLESS OTHERWISE APPROVED BY THE ENGINEER

4. REFER TO STANDARD PLAN A-40.15-00 FOR ISOLATION JOINTS NEAR DRAINAGE STRUCTURES.

5. FOR HMA TO CEMENT CONC. PAVEMENT TRANSITION DETAIL SEE SHEET PD6

6. JOINT LOCATION MAY BE MODIFIED TO FACILITATE CONSTRUCTION STAGING.

7. DIMENSIONS SHOWN AS TYP. ARE TYPICAL FOR THEIR RESPECTIVE LEG OR AREA.

LEGEND

PLACE MONOLITHICALLY WITH CURB	■
DOWEL BAR JOINT	────
TIE BAR JOINT	....
ISOLATION JOINT	-·-·-·-·-
HMA TO CEMENT CONC. PAVEMENT TRANSITION	▨

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING DETAILS.dgn			
TIME	9:38:45 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M.LAMAY			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J.KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L.ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

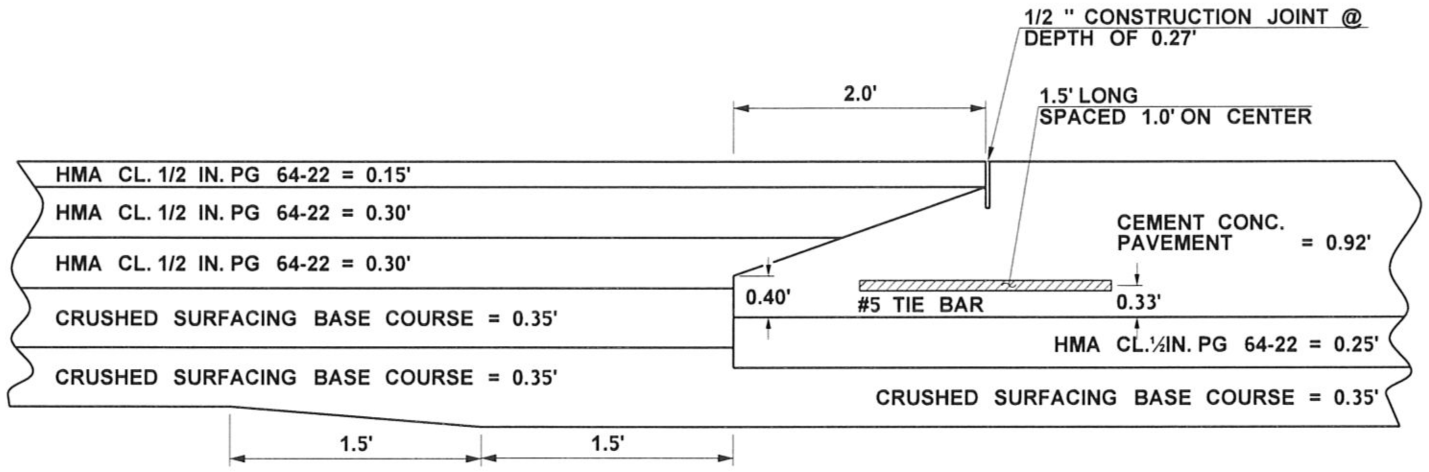
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

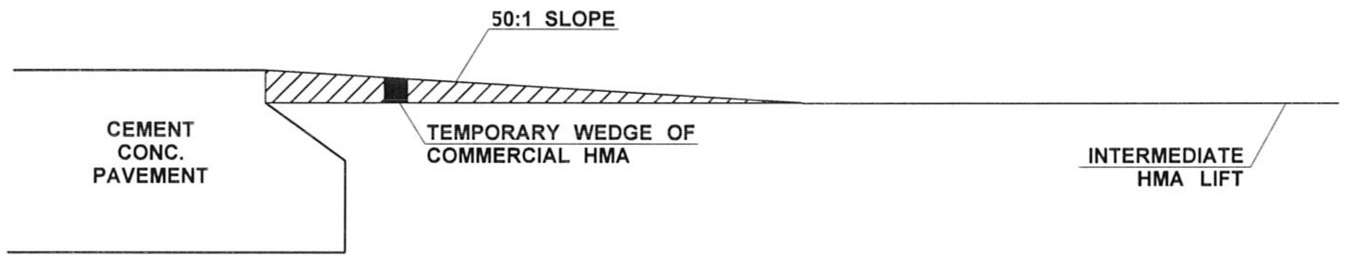
PAVING DETAIL

Plot 5
PLAN REF NO
PD5
SHEET
OF
SHEETS



HMA TO CEMENT CONC. PAVEMENT - TRANSITION

N.T.S.



PCCP TEMPORARY HMA JOINT DETAIL

N.T.S.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING_DETAILS.dgn
TIME	9:38:48 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

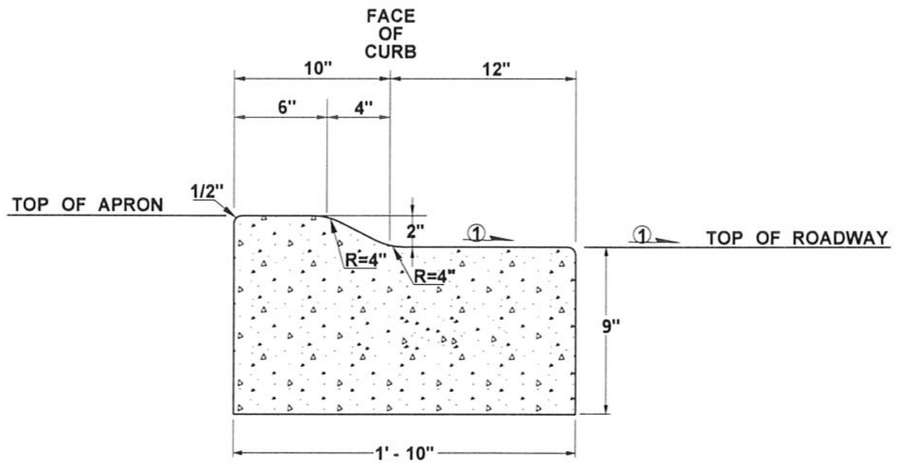
P.E. STAMP BOX DATE

Washington State
Department of Transportation

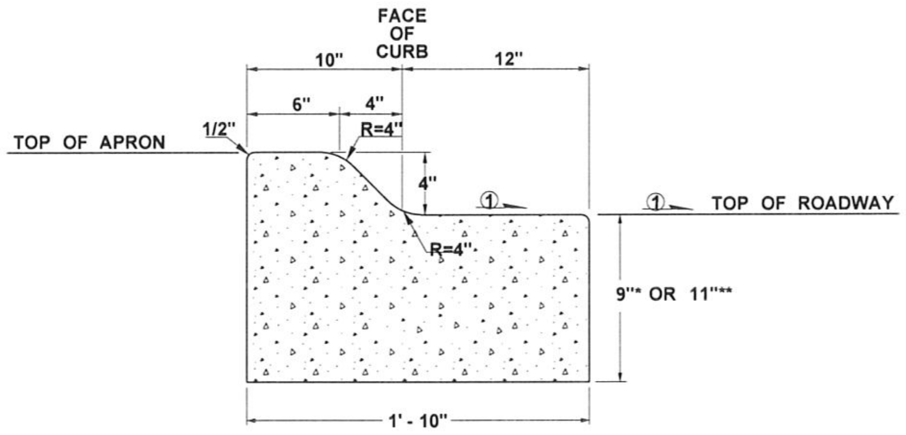
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING DETAILS

Plot 6
PLAN REF NO
PD6
SHEET
OF
SHEETS

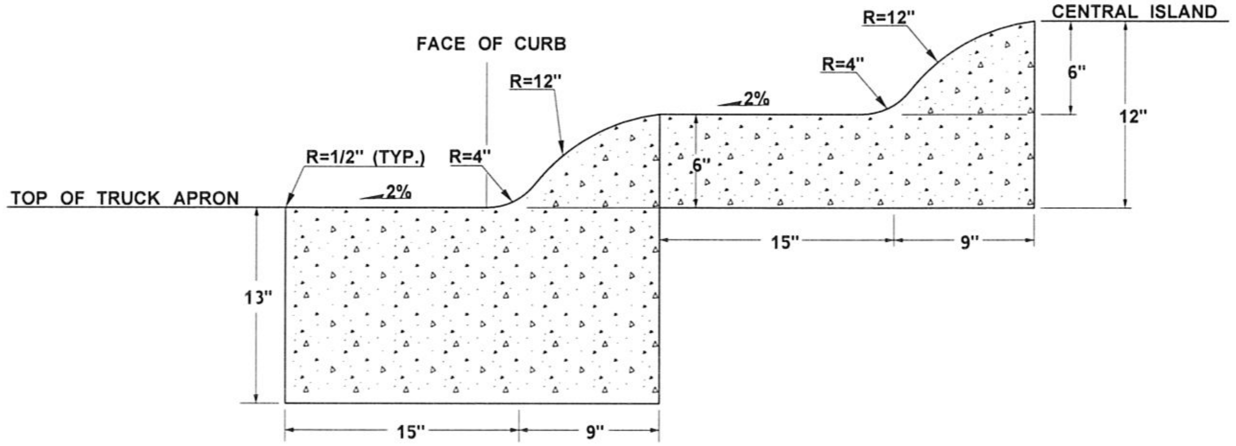


MOUNTABLE CURB & GUTTER 2 IN.

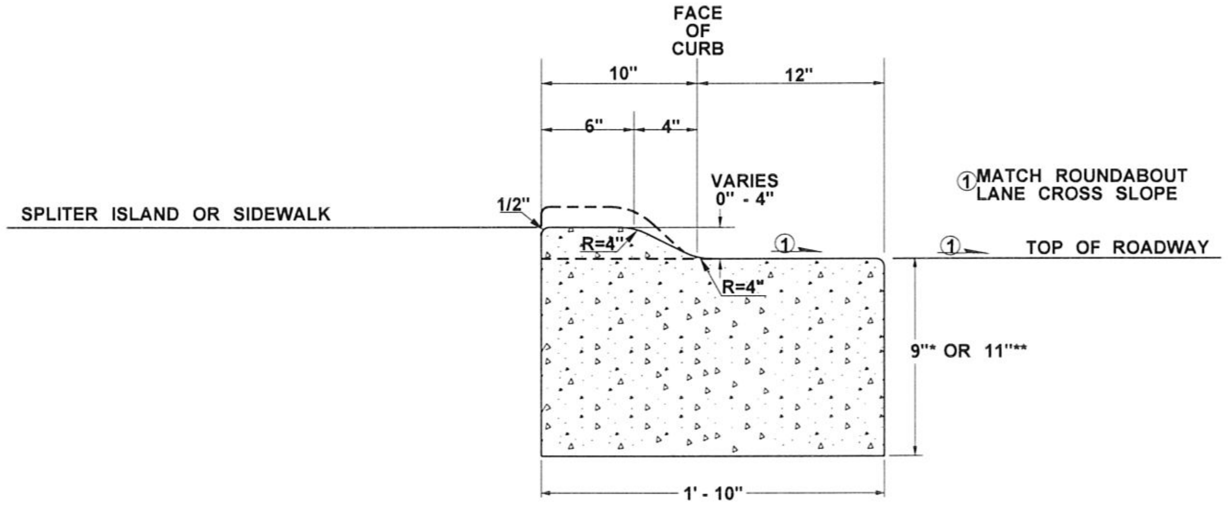


MOUNTABLE CURB & GUTTER 4 IN.

* WHERE ADJACENT TO HMA ROADWAY SURFACING
**WHERE ADJACENT TO CEMENT CONC. PAVEMENT ROADWAY SURFACING



CENTRAL ISLAND CURB & GUTTER



MOUNTABLE CURB & GUTTER 4 IN.
(DEPRESSED CURB SECTION)

* WHERE ADJACENT TO HMA ROADWAY SURFACING
**WHERE ADJACENT TO CEMENT CONC. PAVEMENT ROADWAY SURFACING

NOTE:

1. MOUNTABLE AND CENTRAL ISLAND CURB & GUTTER SHALL CONSIST OF CLASS 4000 CONCRETE.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING DETAILS.dgn
TIME	9:38:52 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M.GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J.KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L.ENG

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX — DATE

P.E. STAMP BOX — DATE

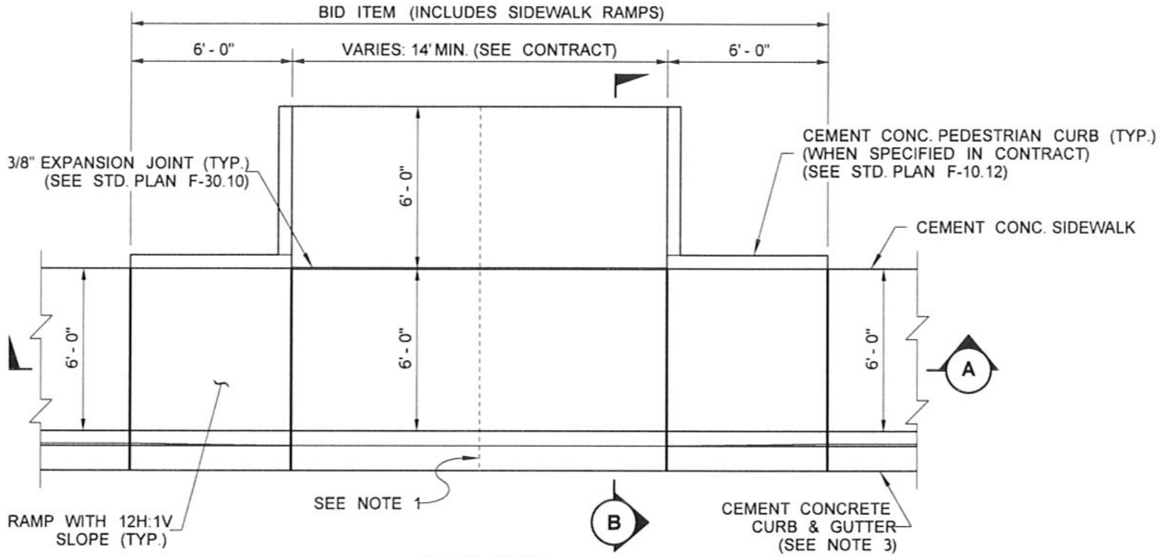
Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING DETAILS

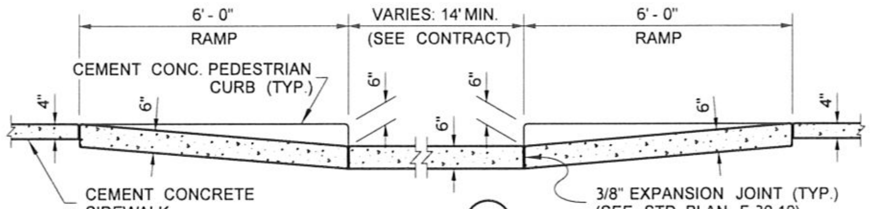
Plot 7
PLAN REF NO
PD7
SHEET
OF
SHEETS

BACK OF CURB CENTER OF DRIVEWAY	W	COMMERCIAL DRIVEWAY
B 62+81.7	30'	YES
B 62+85.0	30'	YES
B 64+29.3	25'	NO

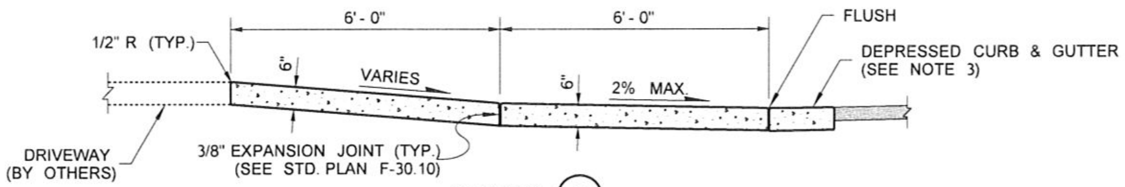


PLAN VIEW

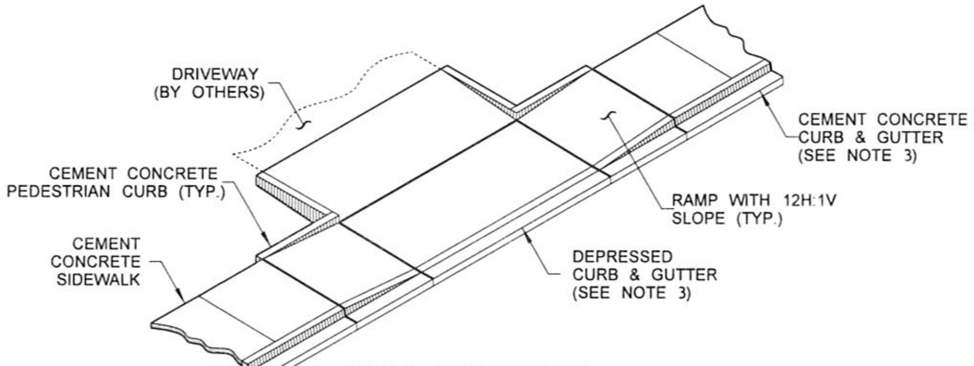
CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1



SECTION A



SECTION B



TYPE 1 ~ ISOMETRIC VIEW

CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1 MOD

NOT TO SCALE

NOTES

1. WHEN THE DRIVEWAY WIDTH EXCEEDS 15 FEET, CONSTRUCT A FULL DEPTH EXPANSION JOINT (SEE STD. PLAN F-30.10) WITH 3/8" JOINT FILLER ALONG THE DRIVEWAY CENTERLINE. CONSTRUCT EXPANSION JOINTS PARALLEL WITH THE CENTERLINE AS REQUIRED AT 15' MAXIMUM SPACING WHEN DRIVEWAY WIDTHS EXCEED 30'.

2. SEE STD. PLAN F-30.10 FOR SIDEWALK DETAILS.

3. CURB AND GUTTER SHOWN, SEE PAVING PLAN AND PAVING DETAILS FOR THE CURB DESIGN SPECIFIED. SEE STANDARD PLAN F-10.12 FOR CURB DETAILS.

4. AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF DRIVEWAY ENTRANCES.

5. THE BID ITEM CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1 MOD DOSE NOT INCLUDE THE ADJACENT CURB, OR CEMENT CONCRETE PEDESTRIAN CURB.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING DETAILS.dgn			
TIME	9:38:55 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M.GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J.KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L.ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

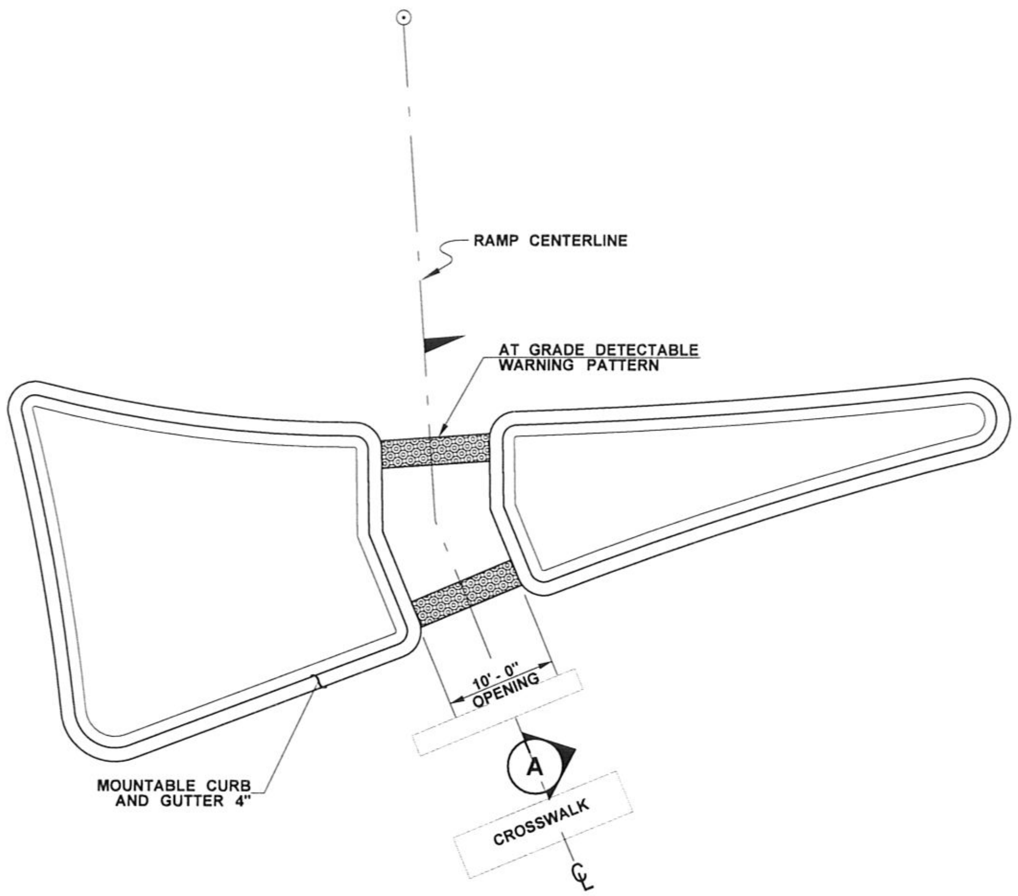
DATE
P.E. STAMP BOX

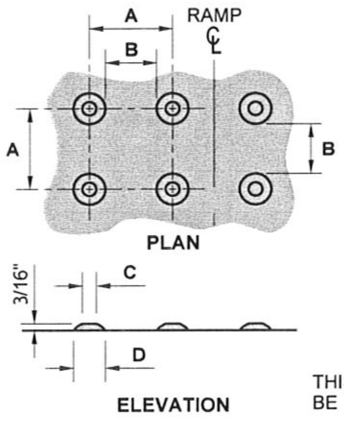
Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING DETAILS

Plot 8
PLAN REF NO
PD8
SHEET
OF
SHEETS

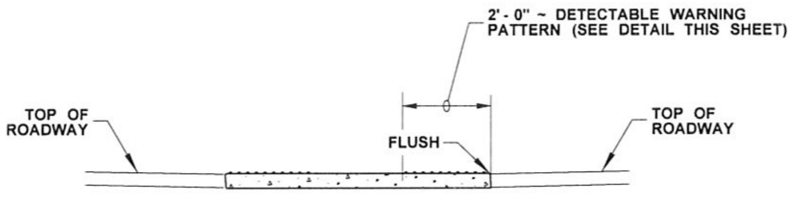




	MIN.	MAX.
A	1 5/8"	2 3/8"
B	5/8"	1 1/2"
C	7/16"	3/4"
D	7/8"	1 7/16"

THIS PATTERN AREA SHALL BE YELLOW IN COLOR

DETECTABLE WARNING PATTERN DETAIL



SECTION (A)

AT GRADE PEDESTRAIN CROSSING

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING DETAILS.dgn			
TIME	9:38:58 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M.GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J.KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L.ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

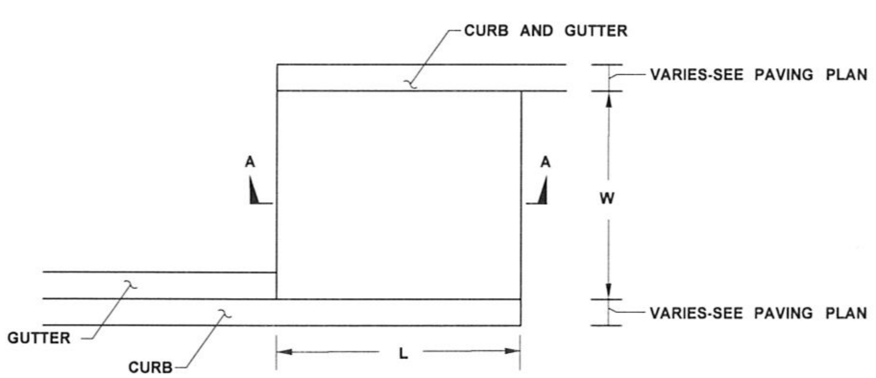
P.E. STAMP BOX DATE

Washington State
Department of Transportation

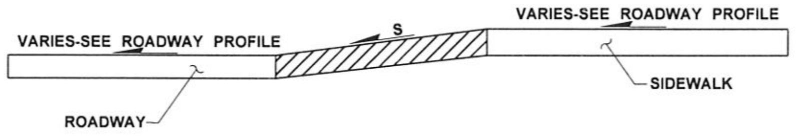
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING DETAILS

Plot 9
PLAN REF NO
PD9
SHEET
OF
SHEETS



PLAN VIEW
NOT TO SCALE

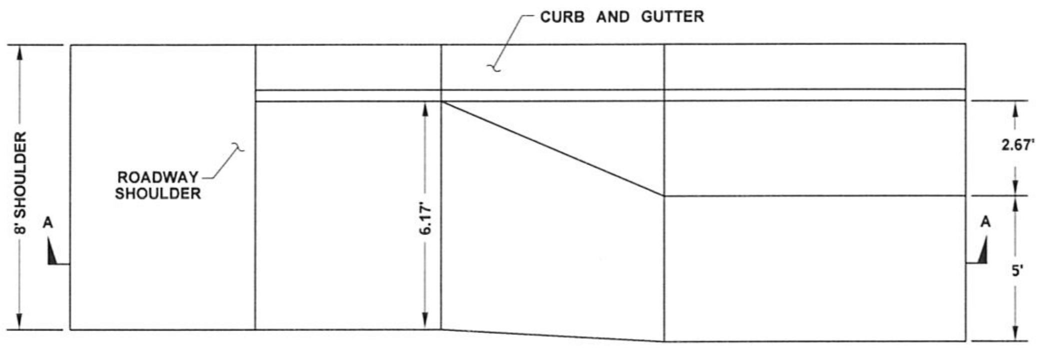


SECTION A-A
NOT TO SCALE

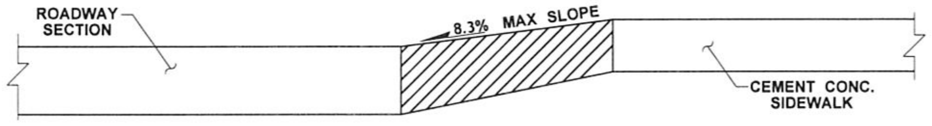
CEMENT CONCRETE RAMP TYPE B DETAIL

CONSTRUCTION OF CEMENT CONCRETE (TYPE A) RAMP PAID FOR AS "CEMENT CONCRETE SIDWALK" PER JY

RAMP	W(FT)	L(FT)	MAX S(%)
B 61+43.8	5.0'	-	8.33'
B 66+05.7 (LT)	4'2"	7	-
B 66+06.0 (RT)	4'2"	7	-



PLAN VIEW
NOT TO SCALE



SECTION A-A
NOT TO SCALE

CEMENT CONCRETE RAMP TYPE A DETAIL

CONSTRUCTION OF CEMENT CONCRETE (TYPE A) RAMP PAID FOR AS "CEMENT CONCRETE SIDWALK" PER JY

A 808+18.4 (45.7' LT)
A 808+16.9 (23.9' RT)
A 811+85.6 (45.9' RT)
A 808+90.1 (20.3' LT)
B 69+57.3 (12.5' LT)
B 69+58.3 (28.3' RT)

FILE NAME N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING DETAILS.dgn

TIME	9:39:01 AM				REGION NO. 10	STATE WASH
DATE	3/24/2010					
PLOTTED BY	gunnm				JOB NUMBER	
DESIGNED BY	M.GUNN					
ENTERED BY	K.SOLWOLD					
CHECKED BY	J.KORESKI				CONTRACT NO.	
PROJ. ENGR.	S.SPAHR					
REGIONAL ADM.	L.ENG	REVISION	DATE	BY		

FED.AID PROJ.NO.

LOCATION NO.

DATE
P.E. STAMP BOX

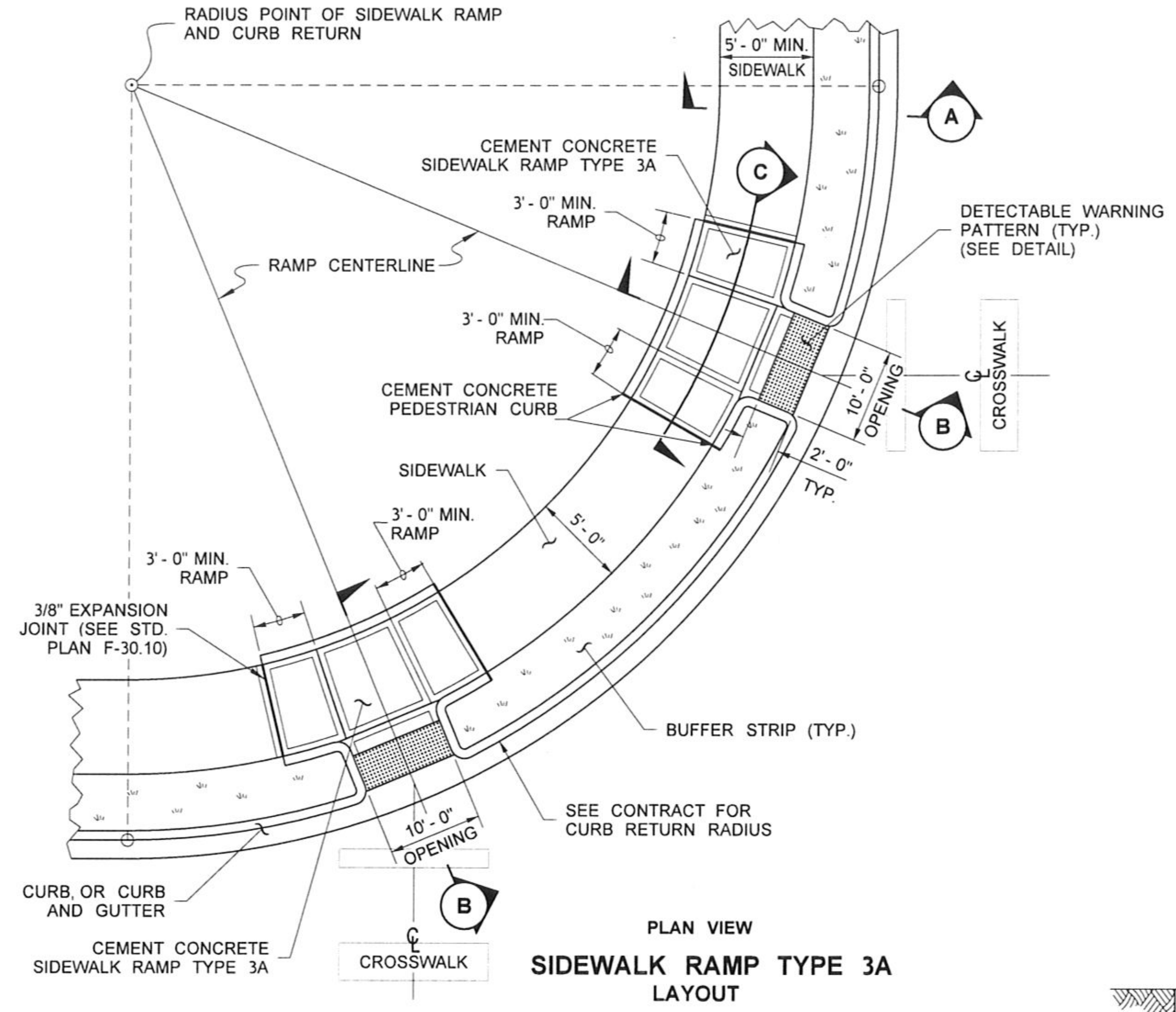
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING DETAILS

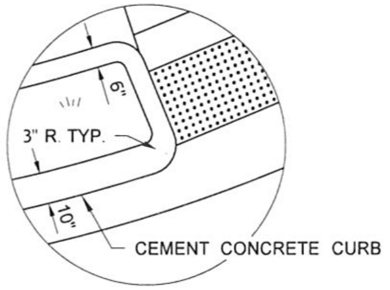
Plot 10
PLAN REF NO
PD10
SHEET
OF
SHEETS



PLAN VIEW

SIDEWALK RAMP TYPE 3A

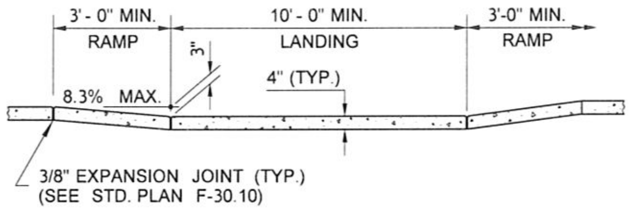
LAYOUT



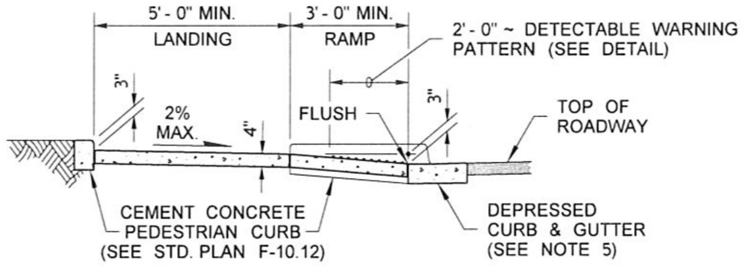
CURB RADIUS DETAIL

NOTES

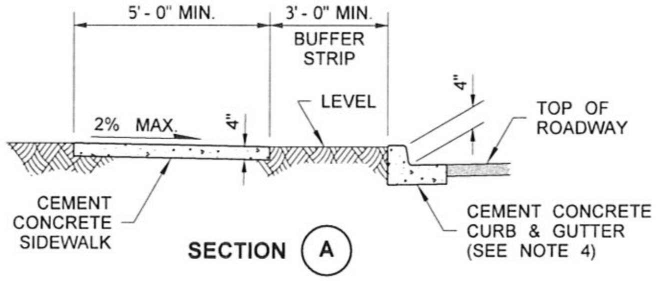
1. THE BOTTOM OF THE RAMP SHALL HAVE A LEVEL AREA (NOT IN EXCESS OF 2% IN ANY DIRECTION), 4' x 4'.
2. RAMP SLOPES SHALL NOT BE STEEPER THAN 8.3%.
3. AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
4. SEE PAVING PLANS FOR THE CURB DESIGN SPECIFIED. SEE STANDARD PLAN F-10.12 OR SHEET PD7 FOR CURB DETAILS
5. SEE STANDARD PLAN F-30.10 FOR SIDEWALK JOINT PLACEMENT AND DETAILS.



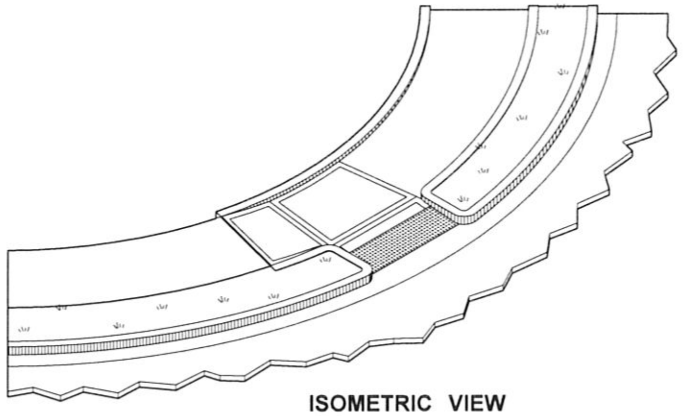
SECTION C



SECTION B



SECTION A



ISOMETRIC VIEW

CEMENT CONCRETE CURB RAMP TYPE 3A MOD

FILE NAME N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVING DETAILS.dgn

TIME 9:39:04 AM
DATE 3/24/2010
PLOTTED BY gunnm
DESIGNED BY M.GUNN
ENTERED BY K.SOLWOLD
CHECKED BY J.KORESKI
PROJ. ENGR. S.SPAHR
REGIONAL ADM. L.ENG

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVING DETAILS

Plot 11
PLAN REF NO
PD11
SHEET
OF
SHEETS

QUANTITY TABULATION - PAVEMENT MARKING

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ⋎ \ UNIT OF MEASURE ⋗	PAINT LINE	PLASTIC LINE		PLASTIC WIDE LINE	PLASTIC CROSSWALK LINE		PLASTIC TRAFFIC ARROW	PLASTIC TRAFFIC LETTER		PLASTIC DRAINAGE MARKING	PLASTIC YIELD LINE SYMBOL		RAISED PAVEMENT MARKER TYPE 2			SEE GENERAL NOTES
		L.F.	L.F.		L.F.	S.F.		EACH	EACH		EACH	EACH		HUND			
PM1	A 795+77.7 (10.6' RT) TO B 72+65.0 (7.4' RT)	1820															12
PM1	A 795+77.7 (0.9' LT) TO A 803+82.3 (0.0' RT)	810												0.2			11, 12
PM1	A 795+77.7 (12.3' LT) TO B 59+53.0 (15.3' RT)	3160															12, 15
PM2	A 800+82.8 (0.0' RT) TO 803+32.6 (0.0' RT)	260												0.1			11, 12
PM2	A 803+82.3 (0.0' RT) TO A 809+24.5 (14.4' RT)	90	570														12
PM2	A 803+82.3 (0.0' LT) TO A 809+41.3 (44.5' LT)		640														12, 16
PM2	A 804+10.7 (6.3' RT)								4								7
PM2	A 804+32.6 (12.6' RT) TO A 809+26.9 (31.5' RT)				510												12
PM2	A 804+41.3 (18.9' RT)							1									4
PM2	A 804+41.6 (6.9' RT)							1									1
PM2	A 806+20.7 (17.6' RT)								4								7, 9
PM2	A 806+51.7 (18' RT)							1									1
PM2	A 806+51.9 (30.0' RT)							1									4
PM3	A 808+29.0 (2.2' LT)								4								7, 9
PM3	A 808+58.7 (10.2' RT)							1									4
PM3	A 808+60.1 (2.7' LT)							1									1
PM3	A 808+79.6 (21.0' RT) TO A 808+87.3 (3.8' LT)					280											13
PM3	A 808+86.3 (45.3' LT) TO A 808+89.5 (19.2 LT)					270											13
PM3	A 808+93.9 (5.2' RT)								5								8, 9
PM3	A 808+94.8 (19.6' RT)								5								8, 9
PM3	A 809+15.3 (22.4' RT) TO 809+20.0 (12.0' RT)											8					10
PM3	A 809+17.0 (39.2' RT) TO 809+21.7 (28.7' RT)											8					10
PM3	A 809+24.5 (14.4' RT) TO A 809+41.3 (44.5' LT)		160														12, 16
PM3	A 809+24.5 (14.4' RT) TO A 809+42.5 (67.8' RT)				60												12
PM3	A 809+44.5 (23.9' RT) TO A 809+63.8 (40.2' RT)		30														12
PM3	A 809+44.5 (23.9' RT) TO A 809+94.4 (54.6' LT)		150														12
PM3	A 809+44.5 (23.9' RT) TO A 809+69.6 (61.8' RT)				50												12
PM3	A 809+46.2 (0.0' RT) TO A 810+56.2 (0.0' RT)		350														12
PM3	A 809+63.8 (40.2' RT) TO A 809+94.4 (54.6' LT)		170														12, 16
PM3	A 809+64.6 (67.3' RT)								4								7, 9
PM3	A 809+69.6 (61.8' RT) TO A 810+23.5 (65.8' RT)				60												12
PM3	A 809+93.7 (77.0' RT)							1									2
PM3	A 809+94.5 (62.5' RT)							1									1
PM3	A 810+23.5 (65.8' RT) TO A 810+49.5 (51.3' RT)				40												12
	SHEET TOTAL	6140	2070		720	550		8	26			16		0.3			

GENERAL NOTES:

1) TRAFFIC ARROW TYPE LC, SEE SHEET PMD1
2) TRAFFIC ARROW TYPE TC, SEE SHEET PMD1
3) TRAFFIC ARROW TYPE LTC, SEE SHEET PMD1
4) TRAFFIC ARROW TYPE TRC, SEE SHEET PMD1
5) SYMBOL MARKINGS TRAFFIC ARROWS FOR LOW SPEED ROADWAYS, SEE STANDARD PLAN M-24.40-01, TYPE 2SR
6) SYMBOL MARKINGS TRAFFIC ARROWS FOR LOW SPEED ROADWAYS, SEE STANDARD PLAN M-24.40-01, TYPE 2SL
7) TRAFFIC LETTER AND NUMERAL APPLICATIONS STANDARD PLAN M-80.10-00, LOW SPEED APPLICATION, "ONLY"
8) TRAFFIC LETTER AND NUMERAL APPLICATIONS STANDARD PLAN M-80.10-00, LOW SPEED APPLICATION, "YIELD"
9) TRAFFIC LETTERS AND NUMERALS (LOW SPEED ROADWAYS) STANDARD PLAN M-80.30-00
10) SYMBOL MARKINGS MISCELLANEOUS STANDARD PLAN M-24.60-02, YIELD LINE SYMBOL, TYPE 1 SPACED 1.5' ON CENTER
11) LONGITUDINAL MARKING SUPPLEMENT WITH RPM'S ~ TURN LANES STANDARD PLAN M-20.40-01, ALTERNATIVE LINE DETAIL
12) LONGITUDINAL MARKING PATTERNS STANDARD PLAN M-20.10-01
13) CROSSWALK LAYOUT STANDARD PLAN M-15.10-01
14) SYMBOL MARKINGS MISCELLANEOUS STANDARD PLAN M-24.60-02, DRAINAGE STRUCTURE INLET
15) QUANTITY INCLUDES PAINT HATCHING LINES AT 30 FOOT SPACING
16) QUANTITY INCLUDES PLASTIC HATCHING LINES AT 10 FOOT SPACING

DESIGNED BY	M. GUNN				
ENTERED BY	M. GUNN	02/09/10			
CHECKED BY	J. KORESKI				
PROJ. ENGR.	S. SPAHR				
REGION ADM.	L. ENG				
		DATE	**DATE**	**REVISION**	**BY**

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

Washington State Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

QUANTITY TABULATION - PAVEMENT MARKING

QTPM 1

SHEET

OF

SHEETS

QUANTITY TABULATION - PAVEMENT MARKING

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

CODE	LOCATION ∨ \ UNIT OF MEASURE >	PAINT LINE	PLASTIC LINE		PLASTIC WIDE LINE	PLASTIC CROSSWALK LINE		PLASTIC TRAFFIC ARROW	PLASTIC TRAFFIC LETTER		PLASTIC DRAINAGE MARKING	PLASTIC YIELD LINE SYMBOL		RAISED PAVEMENT MARKER TYPE 2			SEE GENERAL NOTES
		L.F.	L.F.		L.F.	S.F.		EACH	EACH		EACH	EACH		HUND			
PM3	A 810+49.5 (51.3' RT) TO A 816+86.20 (0.0 RT)		640														12
PM3	A 810+49.5 (51.3' RT) TO A 810+72.9 (14.1' LT)		170														12, 16
PM3	A 810+70.1 (34.4' LT) TO A 818+32.8 (12.0' LT				770												12
PM3	A 810+72.9 (14.1' LT) TO B 66+89.2 (39.7' LT)				70												12
PM3	A 810+72.9 (14.1' LT) TO A 816+86.20 (0.0' RT)		710														12, 16
PM3	A 810+73.1 (55.5' RT) TO B 72+74.9 (13.8' LT)	440															12
PM3	A 810+73.1 (55.5' RT) TO A 819+57.2 (12' RT)	1430															12, 15
PM3	A 810+77.1 (29.9' LT) TO A 810+84.0 (40.9' LT)											9					10
PM3	A 810+77.8 (11.6' LT) TO 810+83.3 (21.6' LT)											9					10
PM3	A 811+03.8 (18.9' LT)								5								8, 9
PM3	A 811+05.8 (3.5' LT)								5								8, 9
PM3	A 811+13.7 (19.2' RT) TO A 811+16.1 (45.3' RT)					260											13
PM3	A 811+14.8 (7.6' RT) TO A 811+23.1 (18.6' LT)					270											13
PM3	A 811+79.1 (7.4 LT)							1									5
PM3	A 811+89.0 (3.2' RT)							1									3
PM3	A 812+09.6 (13.7' LT)								4								7, 9
PM3	A 814+98.6 (20.3' LT)							1									5
PM3	A 815+06.3 (7.2' LT)							1									3
PM3	B 65+96.1 (11.0' RT)								4								7, 9
PM3	B 66+19.8 (2.9' LT)							1									3
PM3	B 66+27.0 (9.5' RT)							1									5
PM3	B 66+53.0 (21.0' RT) TO B 66+61.5 (4.8' LT)					270											13
PM3	B 66+58.7 (41.5' LT) TO 66+62.5 (15.2' LT)					260											13
PM3	B 66+71.2 (5.9' RT)								5								8, 9
PM3	B 66+73.7 (20.9' RT)								5								8, 9
PM3	B 66+93.8 (23.7' RT) TO B 66+99.6 (13.7' RT)											8					10
PM3	B 66+95.1 (40.2' RT) TO B 67+01.5 (30.7' RT)											8					10
PM3	B 67+04.3 (16.7' RT) TO B 67+14.1 (39.6' LT)		140														12, 16
PM3	B 67+04.3 (16.7' RT) TO B 67+26.6 (80.7' RT)		70														12
PM3	B 68+39.3 (27.2' LT) TO 68+57.8 (16.4' LT)				50												12
PM3	B 68+54.0 (29.7' RT) TO B 68+57.8 (16.4' LT)		70														12, 16
PM3	B 68+54.0 (29.7' RT) TO 70+39.8 (2.2' RT)		180														12
PM3	B 68+57.8 (16.4' LT) TO 70+39.8 (2.2' RT)		180														12
PM3	B 68+59.8 (16.8' LT) TO B 68+66.7 (29.5' LT)											11					10
	SHEET TOTAL	1870	2160		890	1060		6	28			45					

GENERAL NOTES:

1) TRAFFIC ARROW TYPE LC, SEE SHEET PMD1
2) TRAFFIC ARROW TYPE TC, SEE SHEET PMD1
3) TRAFFIC ARROW TYPE LTC, SEE SHEET PMD1
4) TRAFFIC ARROW TYPE TRC, SEE SHEET PMD1
5) SYMBOL MARKINGS TRAFFIC ARROWS FOR LOW SPEED ROADWAYS, SEE STANDARD PLAN M-24.40-01, TYPE 2SR
6) SYMBOL MARKINGS TRAFFIC ARROWS FOR LOW SPEED ROADWAYS, SEE STANDARD PLAN M-24.40-01, TYPE 2SL
7) TRAFFIC LETTER AND NUMERAL APPLICATIONS STANDARD PLAN M-80.10-00, LOW SPEED APPLICATION, "ONLY"
8) TRAFFIC LETTER AND NUMERAL APPLICATIONS STANDARD PLAN M-80.10-00, LOW SPEED APPLICATION, "YIELD"
9) TRAFFIC LETTERS AND NUMERALS (LOW SPEED ROADWAYS) STANDARD PLAN M-80.30-00
10) SYMBOL MARKINGS MISCELLANEOUS STANDARD PLAN M-24.60-02, YIELD LINE SYMBOL, TYPE 1 SPACED 1.5' ON CENTER
11) LONGITUDINAL MARKING SUPPLEMENT WITH RPM'S ~ TURN LANES STANDARD PLAN M-20.40-01, ALTERNATIVE LINE DETAIL
12) LONGITUDINAL MARKING PATTERNS STANDARD PLAN M-20.10-01
13) CROSSWALK LAYOUT STANDARD PLAN M-15.10-01
14) SYMBOL MARKINGS MISCELLANEOUS STANDARD PLAN M-24.60-02, DRAINAGE STRUCTURE INLET
15) QUANTITY INCLUDES PAINT HATCHING LINES AT 30 FOOT SPACING
16) QUANTITY INCLUDES PLASTIC HATCHING LINES AT 10 FOOT SPACING

DESIGNED BY	M. GUNN		
ENTERED BY	M. GUNN	02/09/10	
CHECKED BY	J. KORESKI		
PROJ. ENGR.	S. SPAHR		
REGION ADM.	L. ENG		
		DATE	DATE

REVISION

BY

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

Washington State Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

QUANTITY TABULATION - PAVEMENT MARKING

QTPM 2

SHEET

OF

SHEETS

QUANTITY TABULATION - PAVEMENT MARKING

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.

		PAINT LINE	PLASTIC LINE		PLASTIC WIDE LINE	PLASTIC CROSSWALK LINE		PLASTIC TRAFFIC ARROW	PLASTIC TRAFFIC LETTER		PLASTIC DRAINAGE MARKING	PLASTIC YIELD LINE SYMBOL		RAISED PAVEMENT MARKER TYPE 2			SEE GENERAL NOTES
CODE	**LOCATION ⊽ \ UNIT OF MEASURE ➢**	L.F.	L.F.		L.F.	S.F.		EACH	EACH		EACH	EACH		HUND			
PM3	B 68+83.8 (12.3' LT)								5								8, 9
PM3	B 68+88.3 (14.7' RT) TO B 68+93.1 (33.5' RT)					190											13
PM3	B 68+89.6 (0.9' RT) TO B 68+95.3 (17.2' RT)					170											13
PM4	A 815+29.7 (19.2' LT)								4								7, 9
PM4	A 816+86.2 (0.0' RT) TO A 819+77.8 (0.7' RT)	300												0.1			11, 12
PM4	A 818+15.9 (18.1' LT)							1									5
PM4	A 818+24.0 (5.9' LT)							1									3
PM4	A 818+47.0 (18.0' LT)								4								7, 9
PM5	B 59+92.5 (6.7' LT) TO B 65+06.9 (10.6' LT)		520														12
PM5	B 59+92.6 (4.4' RT) TO B 63+34.8 (5.4' RT)		350														12
PM5	B 60+10.6 (17.9' LT) TO 63+56.5 (18.7' LT)				350												12
PM5	B 60+25.4 (24.7' LT)							1									5
PM5	B 60+32.0 (30.0' LT) TO A 819+30.9 (12.6' LT)	1550															12
PM5	B 60+56.4 (24.2' LT)								4								7, 9
PM5	B 60+59.9 (1.6' LT)							1									6
PM5	B 60+77.9 (1.0' LT)							1									6
PM5	B 61+62.7 (23.7' RT)								4								7, 9
PM5	B 61+65.7 (17.7' RT) TO B 67+06.7 (34.7 RT)				560												12
PM5	B 61+87.4 (24.5' LT)							1									5
PM5	B 61+88.2 (12.0' RT)							1									3
PM5	B 61+93.7 (23.7' RT)							1									5
PM5	B 62+17.6 (0.7' LT)							1									6
PM5	B 62+18.5 (24.4' LT)								4								7, 9
PM5	B 62+35.6 (0.1' LT)							1									6
PM5	B 63+34.8 (5.4' RT) TO B 67+04.3 (16.7' RT)		380														12
PM5	B 63+49.5 (24.2' LT)							1									5
PM5	B 63+80.5 (25.0' LT)								4								7, 9
PM5	B 63+80.6 (23.0' RT)								4								7, 9
PM5	B 64+03.1 (10.1' RT)							1									3
PM5	B 64+05.8 (10.9' RT)							1									6
PM5	B 64+06.3 (31.5' LT) TO B 66+89.2 (49.2' LT)	80	280														12, 15
PM5	B 64+11.5 (22.4' RT)							1									5
PM5	B 65+06.9 (10.6' LT) TO B 67+14.1 (39.6' LT)		200														12
PM6	B 70+39.8 (2.2' RT) TO B 73+00.0 (2.8' LT)	270												0.1			11
	SHEET TOTAL	2200	1730		910	360		14	33					0.2			
	PROJECT TOTAL	10210	5960		2520	1970		28	87			61		0.5			

GENERAL NOTES:

1) TRAFFIC ARROW TYPE LC, SEE SHEET PMD1
2) TRAFFIC ARROW TYPE TC, SEE SHEET PMD1
3) TRAFFIC ARROW TYPE LTC, SEE SHEET PMD1
4) TRAFFIC ARROW TYPE TRC, SEE SHEET PMD1
5) SYMBOL MARKINGS TRAFFIC ARROWS
FOR LOW SPEED ROADWAYS,
SEE STANDARD PLAN M-24.40-01, TYPE 2SR
6) SYMBOL MARKINGS TRAFFIC ARROWS
FOR LOW SPEED ROADWAYS,
SEE STANDARD PLAN M-24.40-01, TYPE 2SL
7) TRAFFIC LETTER AND NUMERAL APPLICATIONS
STANDARD PLAN M-80.10-00,
LOW SPEED APPLICATION, "ONLY"
8) TRAFFIC LETTER AND NUMERAL APPLICATIONS
STANDARD PLAN M-80.10-00,
LOW SPEED APPLICATION, "YIELD"
9) TRAFFIC LETTERS AND NUMERALS
(LOW SPEED ROADWAYS)
STANDARD PLAN M-80.30-00
10) SYMBOL MARKINGS MISCELLANEOUS
STANDARD PLAN M-24.60-02, YIELD LINE SYMBOL,
TYPE 1 SPACED 1.5' ON CENTER
11) LONGITUDINAL MARKING SUPPLEMENT WITH
RPM'S ~ TURN LANES
STANDARD PLAN M-20.40-01,
ALTERNATIVE LINE DETAIL
12) LONGITUDINAL MARKING PATTERNS
STANDARD PLAN M-20.10-01
13) CROSSWALK LAYOUT
STANDARD PLAN M-15.10-01
14) SYMBOL MARKINGS MISCELLANEOUS
STANDARD PLAN M-24.60-02, DRAINAGE
STRUCTURE INLET
15) QUANTITY INCLUDES PAINT HATCHING LINES
AT 30 FOOT SPACING
16) QUANTITY INCLUDES PLASTIC HATCHING
LINES AT 10 FOOT SPACING

DESIGNED BY	M. GUNN		
ENTERED BY	M. GUNN	02/09/10	
CHECKED BY	J. KORESKI		
PROJ. ENGR.	S. SPAHR		
REGION ADM.	L. ENG		
		DATE	**DATE**

REVISION **BY**

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

Washington State Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

QUANTITY TABULATION - PAVEMENT MARKING

QTPM 3

SHEET

OF

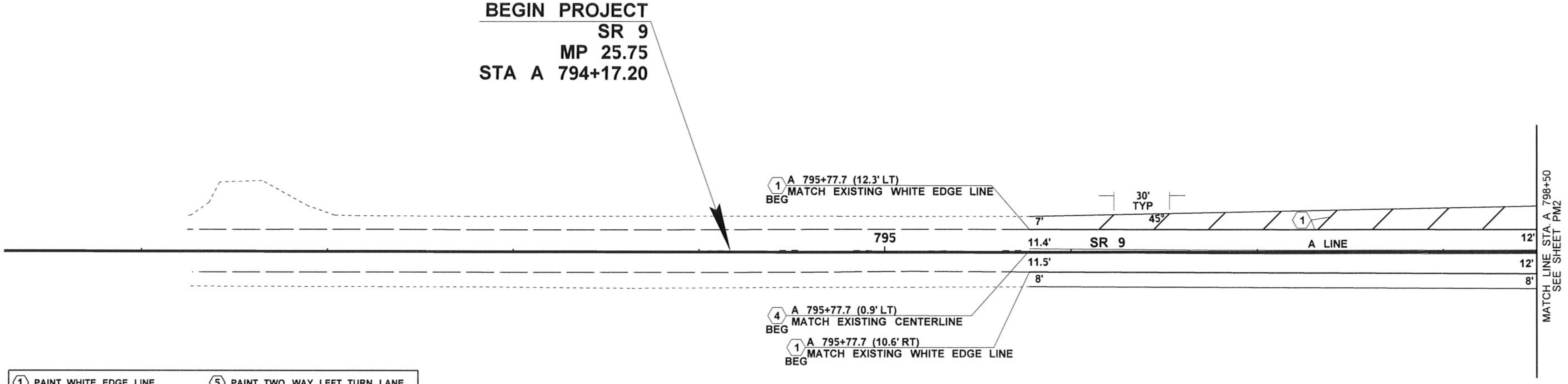
SHEETS

LEGEND

⊢	PLASTIC DRAINAGE MARKING STRUCTURE INLET	↰	PLASTIC TRAFFIC ARROW TYPE LC
⊘	GUIDE POST		
ONLY	PLASTIC TRAFFIC LETTER	↑	PLASTIC TRAFFIC ARROW TYPE TC
— — -	EXISTING WHITE EDGE LINE		
-------	EXISTING PAVED EDGE		
-·-·-	EXISTING CURB	↰	PLASTIC TRAFFIC ARROW TYPE LTC
——	FACE OF GUTTER		
——	CURB FACE		
━━	PLASTIC WIDE LINE	↱	PLASTIC TRAFFIC ARROW TYPE TRC
——	PAINT LINE EDGE		
▌▌▌▌▌▌▌	PLASTIC CROSSWALK LINE	↱	PLASTIC TRAFFIC ARROW TYPE 2SR
·······	YIELD SYMBOL TYPE 1	↰	PLASTIC TRAFFIC ARROW TYPE 2SL

T. 31N. R. 5E. W.M.

N



① PAINT WHITE EDGE LINE	⑤ PAINT TWO WAY LEFT TURN LANE
② PLASTIC YELLOW EDGE LINE	⑥ PLASTIC WHITE DOTTED EXTENSION LINE
③ PLASTIC WHITE WIDE LINE	⑦ PLASTIC WHITE EDGE LINE
④ PAINT DOUBLE YELLOW CENTERLINE	

GENERAL NOTES:

1. FOR ROUNDABOUT TRAFFIC ARROW DETAILS SEE SHEETS PMD1
2. SEE QUANTITY TABULATION - PAVEMENT MARKING SHEETS QTPM1-QTPM3 FOR LOCATION OF TRAFFIC LETTERS, TRAFFIC ARROWS, CROSSWALK LINES AND YIELD LINE SYMBOLS.

0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVEMENT MARKING PLAN.dgn				
TIME	9:27:52 AM				REGION NO. 10 STATE WASH
DATE	3/24/2010				
PLOTTED BY	gunnm				
DESIGNED BY	M. GUNN				JOB NUMBER
ENTERED BY	K.SOLWOLD				
CHECKED BY	J. KORESKI				CONTRACT NO.
PROJ. ENGR.	S.SPAHR				
REGIONAL ADM.	L. ENG	REVISION	DATE	BY	

FED.AID PROJ.NO.

LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVEMENT MARKING PLAN

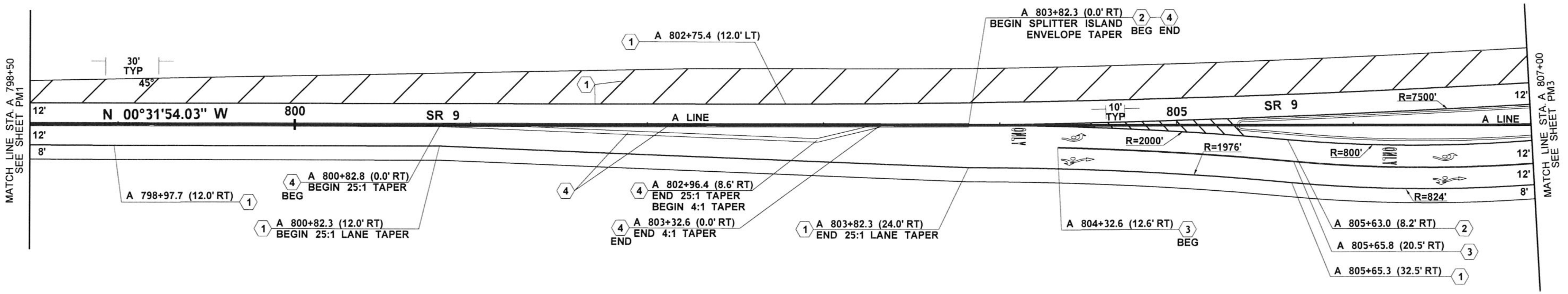
Plot 1
PLAN REF NO
PM1
SHEET
OF
SHEETS

LEGEND

- PLASTIC DRAINAGE MARKING
- STRUCTURE INLET
- GUIDE POST
- PLASTIC TRAFFIC LETTER
- EXISTING WHITE EDGE LINE
- EXISTING PAVED EDGE
- EXISTING CURB
- FACE OF GUTTER
- CURB FACE
- PLASTIC WIDE LINE
- PAINT LINE EDGE
- PLASTIC CROSSWALK LINE
- YIELD SYMBOL TYPE 1
- PLASTIC TRAFFIC ARROW TYPE LC
- PLASTIC TRAFFIC ARROW TYPE TC
- PLASTIC TRAFFIC ARROW TYPE LTC
- PLASTIC TRAFFIC ARROW TYPE TRC
- PLASTIC TRAFFIC ARROW TYPE 2SR
- PLASTIC TRAFFIC ARROW TYPE 2SL

T. 31N. R. 5E. W.M.

N



① PAINT WHITE EDGE LINE
② PLASTIC YELLOW EDGE LINE
③ PLASTIC WHITE WIDE LINE
④ PAINT DOUBLE YELLOW CENTERLINE
⑤ PAINT TWO WAY LEFT TURN LANE
⑥ PLASTIC WHITE DOTTED EXTENSION LINE
⑦ PLASTIC WHITE EDGE LINE

GENERAL NOTES:

1. FOR ROUNDABOUT TRAFFIC ARROW DETAILS SEE SHEETS PMD1
2. SEE QUANTITY TABULATION - PAVEMENT MARKING SHEETS QTPM1-QTPM3 FOR LOCATION OF TRAFFIC LETTERS, TRAFFIC ARROWS, CROSSWALK LINES AND YIELD LINE SYMBOLS.

0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVEMENT MARKING PLAN.dgn
TIME	9:27:55 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO. | LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

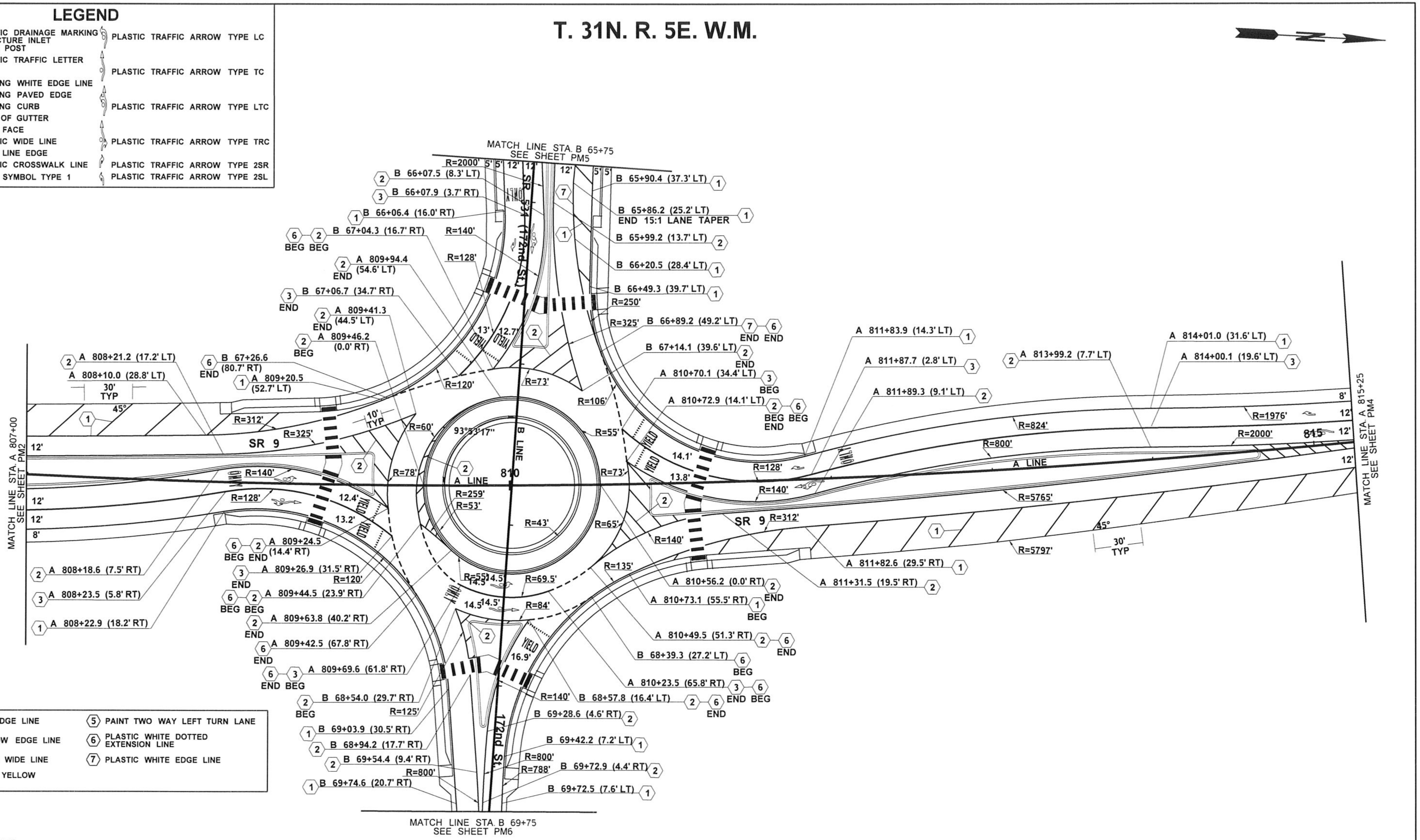
PAVEMENT MARKING PLAN

Plot 2
PLAN REF NO
PM2
SHEET
OF
SHEETS

LEGEND

⊢	PLASTIC DRAINAGE MARKING STRUCTURE INLET	↰	PLASTIC TRAFFIC ARROW TYPE LC
⊘	GUIDE POST	↑	PLASTIC TRAFFIC ARROW TYPE TC
ONLY	PLASTIC TRAFFIC LETTER	↰	PLASTIC TRAFFIC ARROW TYPE LTC
— — -	EXISTING WHITE EDGE LINE	↱	PLASTIC TRAFFIC ARROW TYPE TRC
-------	EXISTING PAVED EDGE	↱	PLASTIC TRAFFIC ARROW TYPE 2SR
—·—·—	EXISTING CURB	↰	PLASTIC TRAFFIC ARROW TYPE 2SL
——	FACE OF GUTTER		
——	CURB FACE		
——	PLASTIC WIDE LINE		
——	PAINT LINE EDGE		
▌▌▌▌▌▌▌	PLASTIC CROSSWALK LINE		
·······	YIELD SYMBOL TYPE 1		

T. 31N. R. 5E. W.M.



① PAINT WHITE EDGE LINE
② PLASTIC YELLOW EDGE LINE
③ PLASTIC WHITE WIDE LINE
④ PAINT DOUBLE YELLOW CENTERLINE
⑤ PAINT TWO WAY LEFT TURN LANE
⑥ PLASTIC WHITE DOTTED EXTENSION LINE
⑦ PLASTIC WHITE EDGE LINE

GENERAL NOTES:

1. FOR ROUNDABOUT TRAFFIC ARROW DETAILS SEE SHEETS PMD1
2. SEE QUANTITY TABULATION - PAVEMENT MARKING SHEETS QTPM1-QTPM3 FOR LOCATION OF TRAFFIC LETTERS, TRAFFIC ARROWS, CROSSWALK LINES AND YIELD LINE SYMBOLS.

0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVEMENT MARKING PLAN.dgn
TIME	9:27:58 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.	LOCATION NO.	

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVEMENT MARKING PLAN

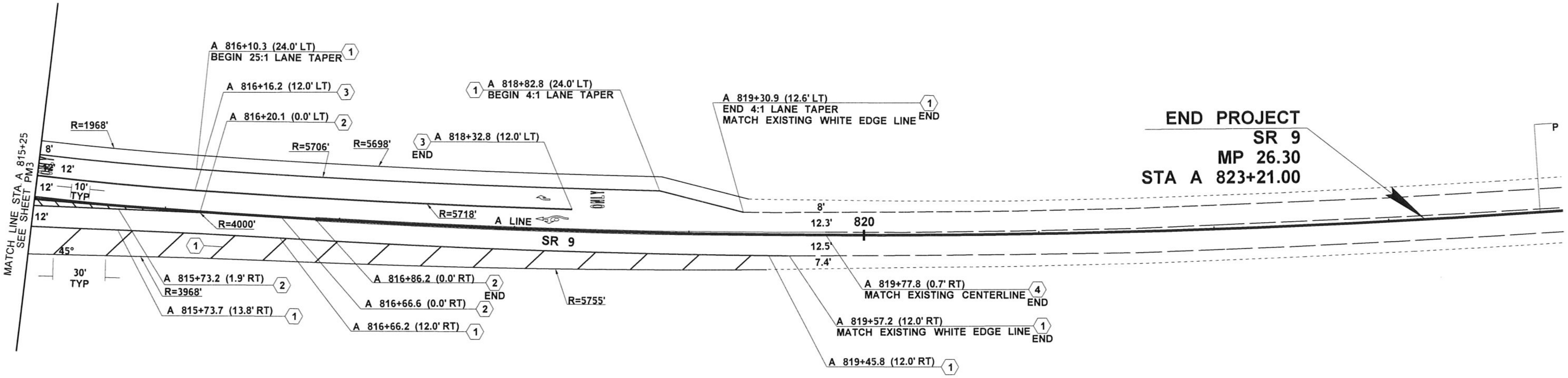
Plot 3
PLAN REF NO
PM3
SHEET
OF
SHEETS

LEGEND

- ⊢ PLASTIC DRAINAGE MARKING
- STRUCTURE INLET
- ⌀ GUIDE POST
- ONLY PLASTIC TRAFFIC LETTER
- EXISTING WHITE EDGE LINE
- EXISTING PAVED EDGE
- EXISTING CURB
- FACE OF GUTTER
- CURB FACE
- PLASTIC WIDE LINE
- PAINT LINE EDGE
- ▮▮▮▮▮▮▮ PLASTIC CROSSWALK LINE
- ········ YIELD SYMBOL TYPE 1

- PLASTIC TRAFFIC ARROW TYPE LC
- PLASTIC TRAFFIC ARROW TYPE TC
- PLASTIC TRAFFIC ARROW TYPE LTC
- PLASTIC TRAFFIC ARROW TYPE TRC
- PLASTIC TRAFFIC ARROW TYPE 2SR
- PLASTIC TRAFFIC ARROW TYPE 2SL

T. 31N. R. 5E. W.M.



① PAINT WHITE EDGE LINE
② PLASTIC YELLOW EDGE LINE
③ PLASTIC WHITE WIDE LINE
④ PAINT DOUBLE YELLOW CENTERLINE
⑤ PAINT TWO WAY LEFT TURN LANE
⑥ PLASTIC WHITE DOTTED EXTENSION LINE
⑦ PLASTIC WHITE EDGE LINE

GENERAL NOTES:

1. FOR ROUNDABOUT TRAFFIC ARROW DETAILS SEE SHEETS PMD1
2. SEE QUANTITY TABULATION - PAVEMENT MARKING SHEETS QTPM1-QTPM3 FOR LOCATION OF TRAFFIC LETTERS, TRAFFIC ARROWS, CROSSWALK LINES AND YIELD LINE SYMBOLS.

0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVEMENT MARKING PLAN.dgn			
TIME	9:28:02 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M. GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.	LOCATION NO.	

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

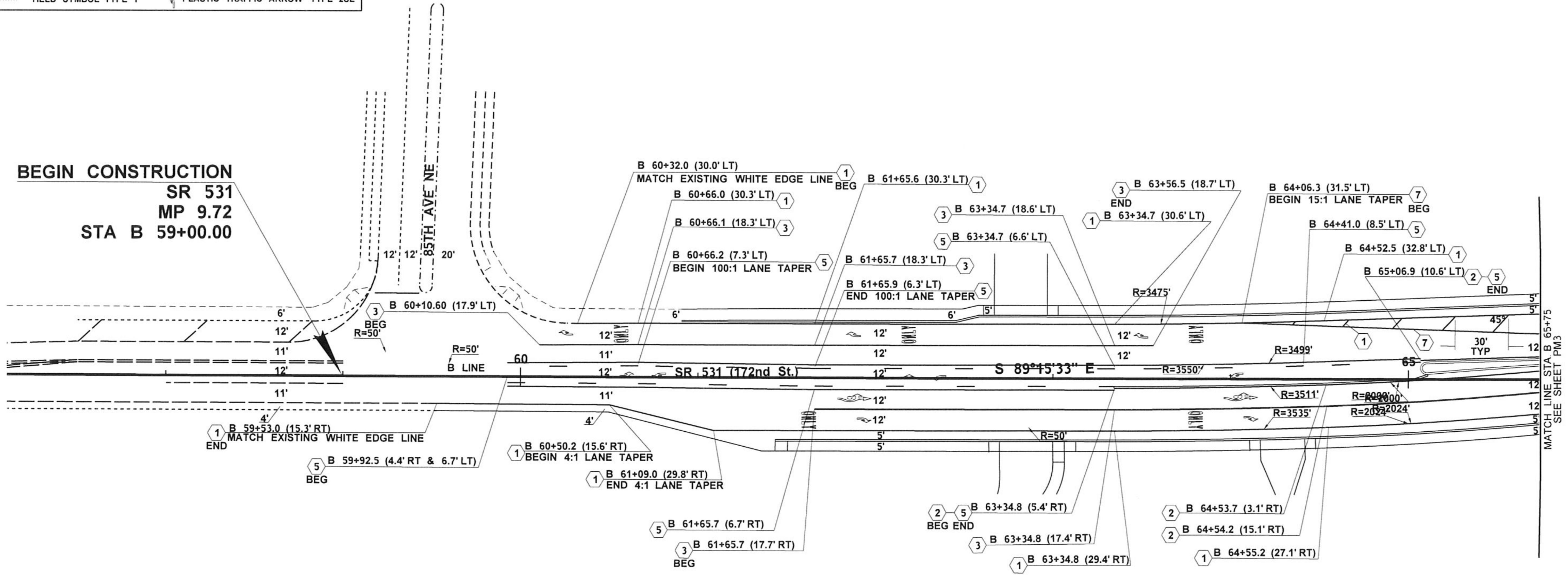
PAVEMENT MARKING PLAN

Plot 4
PLAN REF NO
PM4
SHEET
OF
SHEETS

LEGEND

- PLASTIC DRAINAGE MARKING STRUCTURE INLET
- GUIDE POST
- ONLY PLASTIC TRAFFIC LETTER
- EXISTING WHITE EDGE LINE
- EXISTING PAVED EDGE
- EXISTING CURB
- FACE OF GUTTER
- CURB FACE
- PLASTIC WIDE LINE
- PAINT LINE EDGE
- PLASTIC CROSSWALK LINE
- YIELD SYMBOL TYPE 1
- PLASTIC TRAFFIC ARROW TYPE LC
- PLASTIC TRAFFIC ARROW TYPE TC
- PLASTIC TRAFFIC ARROW TYPE LTC
- PLASTIC TRAFFIC ARROW TYPE TRC
- PLASTIC TRAFFIC ARROW TYPE 2SR
- PLASTIC TRAFFIC ARROW TYPE 2SL

T. 31N. R. 5E. W.M.



① PAINT WHITE EDGE LINE
② PLASTIC YELLOW EDGE LINE
③ PLASTIC WHITE WIDE LINE
④ PAINT DOUBLE YELLOW CENTERLINE
⑤ PAINT TWO WAY LEFT TURN LANE
⑥ PLASTIC WHITE DOTTED EXTENSION LINE
⑦ PLASTIC WHITE EDGE LINE

GENERAL NOTES:

1. FOR ROUNDABOUT TRAFFIC ARROW DETAILS SEE SHEETS PMD1
2. SEE QUANTITY TABULATION - PAVEMENT MARKING SHEETS QTPM1-QTPM3 FOR LOCATION OF TRAFFIC LETTERS, TRAFFIC ARROWS, CROSSWALK LINES AND YIELD LINE SYMBOLS.

0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVEMENT MARKING PLAN.dgn
TIME	9:28:05 AM
DATE	3/24/2010
PLOTTED BY	gunnm
DESIGNED BY	M. GUNN
ENTERED BY	K.SOLWOLD
CHECKED BY	J. KORESKI
PROJ. ENGR.	S.SPAHR
REGIONAL ADM.	L. ENG

REVISION DATE BY

REGION NO. 10 STATE WASH FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO. LOCATION NO.

P.E. STAMP BOX DATE
P.E. STAMP BOX DATE

Washington State
Department of Transportation

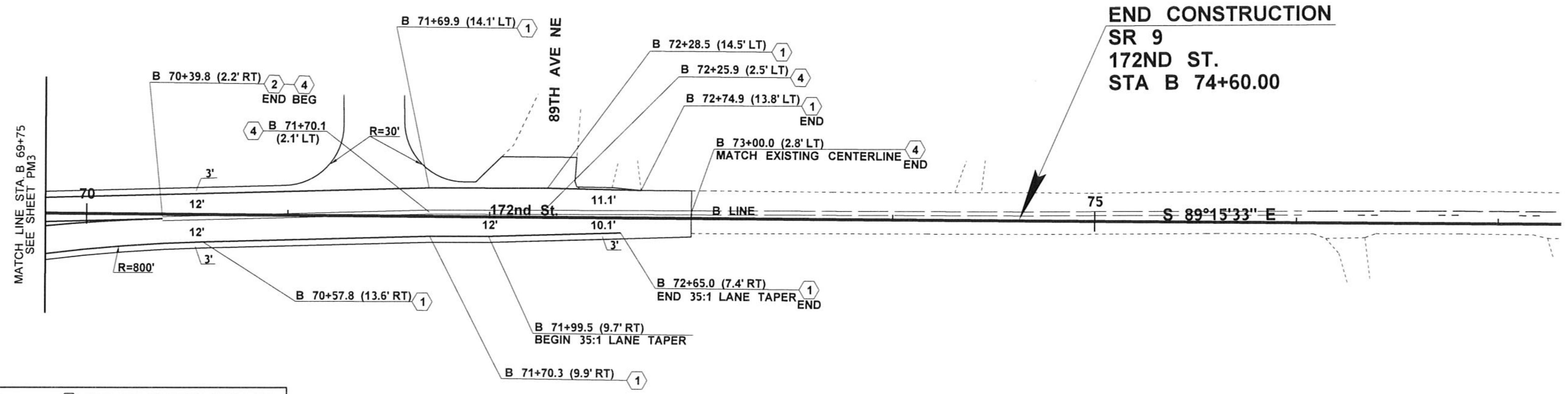
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVEMENT MARKING PLAN

Plot 5
PLAN REF NO
PM5
SHEET
OF
SHEETS

LEGEND

⊢	PLASTIC DRAINAGE MARKING STRUCTURE INLET
⊘	GUIDE POST
ONLY	PLASTIC TRAFFIC LETTER
— — -	EXISTING WHITE EDGE LINE
-----------	EXISTING PAVED EDGE
-·-·-·-	EXISTING CURB
——	FACE OF GUTTER
——	CURB FACE
━━	PLASTIC WIDE LINE
——	PAINT LINE EDGE
▮▮▮▮▮▮▮	PLASTIC CROSSWALK LINE
········	YIELD SYMBOL TYPE 1
	PLASTIC TRAFFIC ARROW TYPE LC
	PLASTIC TRAFFIC ARROW TYPE TC
	PLASTIC TRAFFIC ARROW TYPE LTC
	PLASTIC TRAFFIC ARROW TYPE TRC
	PLASTIC TRAFFIC ARROW TYPE 2SR
	PLASTIC TRAFFIC ARROW TYPE 2SL



END CONSTRUCTION
SR 9
172ND ST.
STA B 74+60.00

⟨1⟩ PAINT WHITE EDGE LINE	⟨5⟩ PAINT TWO WAY LEFT TURN LANE
⟨2⟩ PLASTIC YELLOW EDGE LINE	⟨6⟩ PLASTIC WHITE DOTTED EXTENSION LINE
⟨3⟩ PLASTIC WHITE WIDE LINE	⟨7⟩ PLASTIC WHITE EDGE LINE
⟨4⟩ PAINT DOUBLE YELLOW CENTERLINE	

GENERAL NOTES:

1. FOR ROUNDABOUT TRAFFIC ARROW DETAILS SEE SHEETS PMD1
2. SEE QUANTITY TABULATION - PAVEMENT MARKING SHEETS QTPM1-QTPM3 FOR LOCATION OF TRAFFIC LETTERS, TRAFFIC ARROWS, CROSSWALK LINES AND YIELD LINE SYMBOLS.

0 30 60
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVEMENT MARKING PLAN.dgn			
TIME	9:28:08 AM			
DATE	3/24/2010			
PLOTTED BY	gunnm			
DESIGNED BY	M.GUNN			
ENTERED BY	K.SOLWOLD			
CHECKED BY	J.KORESKI			
PROJ. ENGR.	S.SPAHR			
REGIONAL ADM.	L.ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

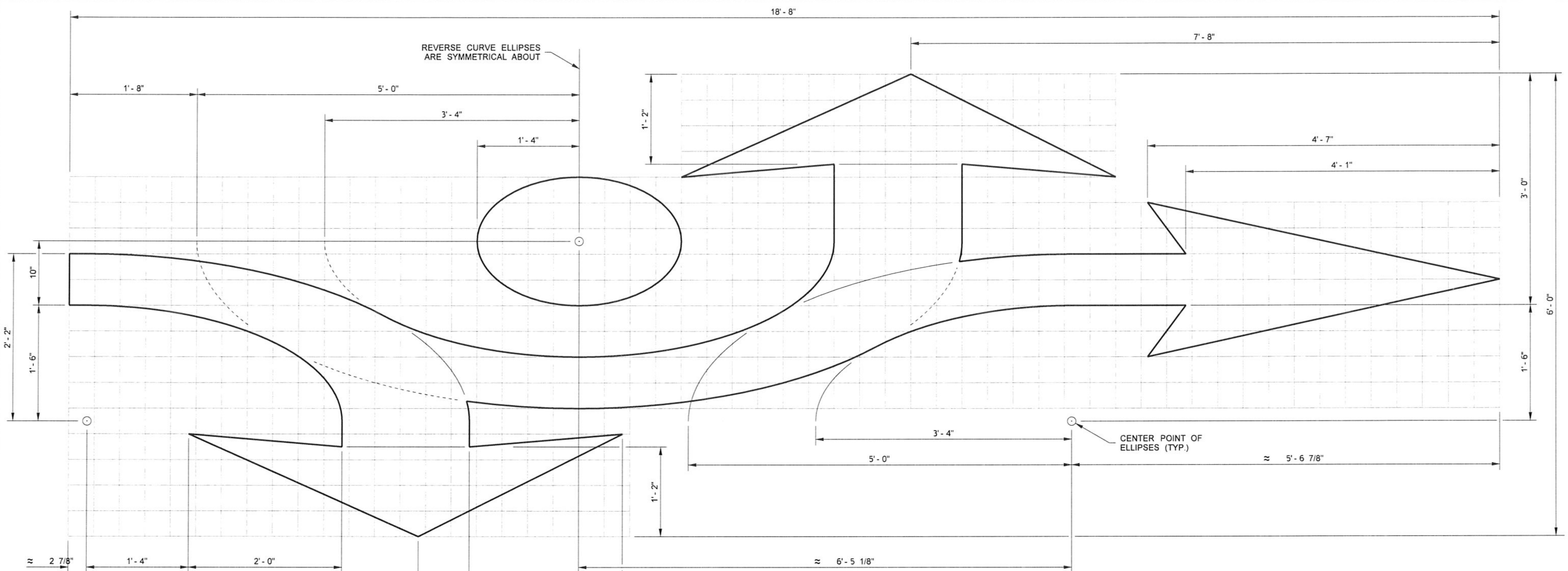
P.E. STAMP BOX DATE

Washington State
Department of Transportation

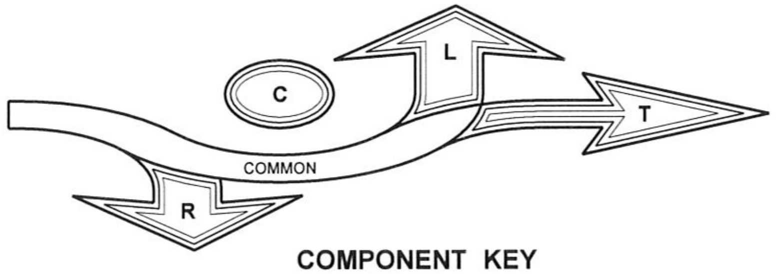
SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVEMENT MARKING PLAN

Plot 6
PLAN REF NO
PM6
SHEET
OF
SHEETS



DETAIL



COMPONENT KEY

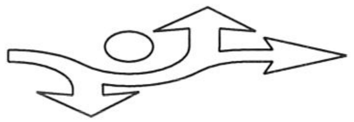
THE LABELED AREAS ABOVE CORRESPOND TO THE PORTIONS NEEDED FOR EACH TYPE OF ROUNDABOUT TRAFFIC ARROW.

TYPE LC
18.07 SQ.FT.

TYPE TC
18.56 SQ.FT.

TYPE LTC
24.19 SQ.FT.

TYPE TRC
23.07 SQ.FT.



TYPE LTRC
28.70 SQ.FT.

TYPE T
15.07 SQ.FT.

TYPE LT
20.69 SQ.FT.

TYPE TR
19.58 SQ.FT.

TYPE LTR
25.20 SQ.FT.

PAVEMENT MARKING ~ ROUNDABOUT TRAFFIC ARROW

FILE NAME N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_PAVEMENT MARKING DETAILS.dgn
TIME 9:25:19 AM
DATE 3/24/2010
PLOTTED BY gunnm
DESIGNED BY M.GUNN
ENTERED BY K.SOLWOLD
CHECKED BY J.KORESKI
PROJ. ENGR. S.SPAHR
REGIONAL ADM. L.ENG

REVISION	DATE	BY

REGION NO. 10
STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

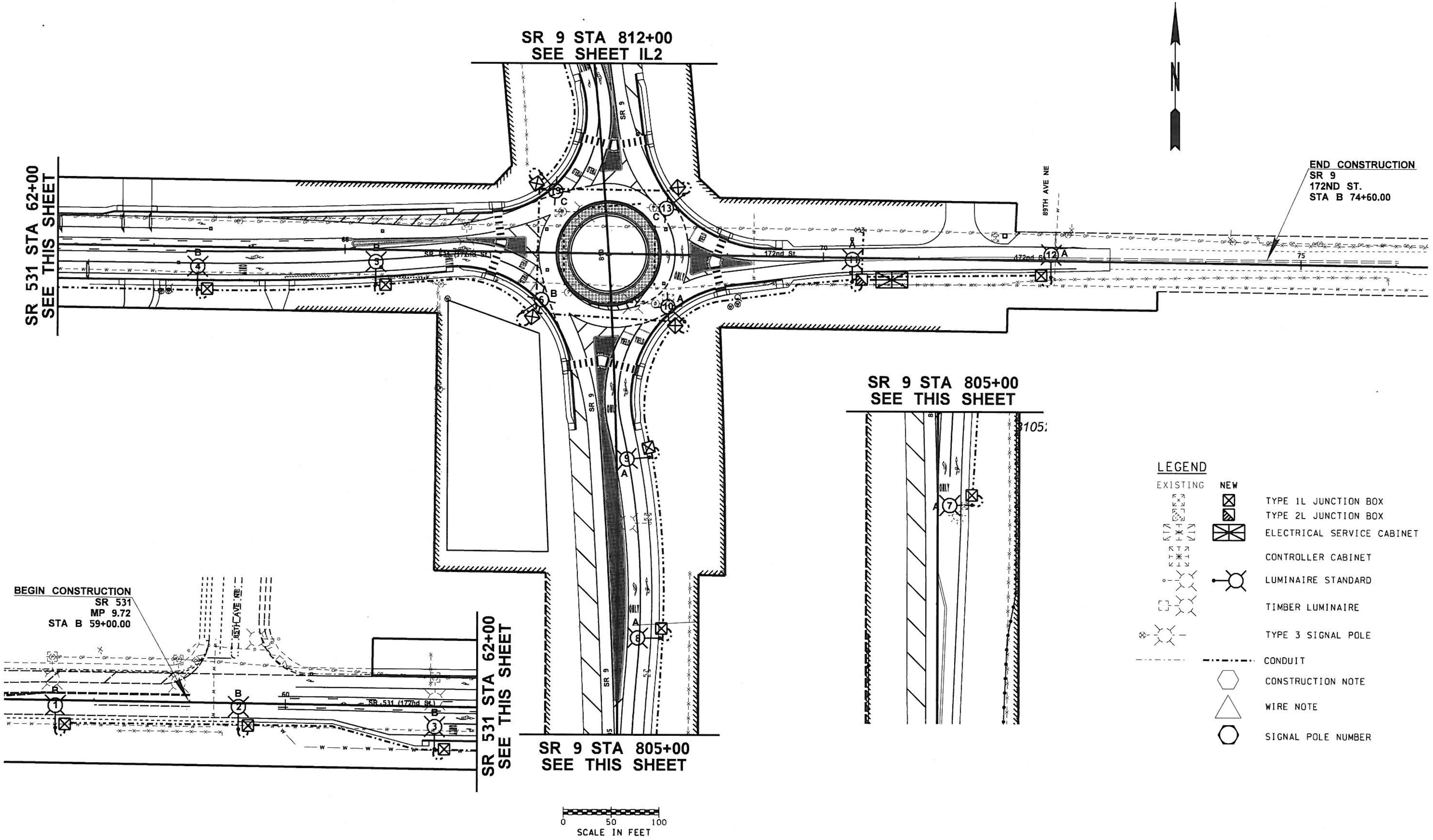
P.E. STAMP BOX DATE
P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR9
SR531/172ND ST NE
INTERSECTION IMPROVEMENT

PAVEMENT MARKING DETAILS

Plot 1
PLAN REF NO
PMD1
SHEET
OF
SHEETS



FILE NAME	C:\Soth\Soth\State\SR009\XL3325_172nd ST IC\CADD\III_3325.dgn			
TIME	6:52:37 AM			
DATE	3/24/2010			
PLOTTED BY	kovs			
DESIGNED BY	S. KOV			
ENTERED BY	S. KOV			
CHECKED BY	A. MOSTOWFY			
PROJ. ENGR.	S. SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX
DATE

P.E. STAMP BOX
DATE

Washington State
Department of Transportation

SR 9
SR 531/172ND ST NE
ROUNDABOUT

ILLUMINATION PLAN

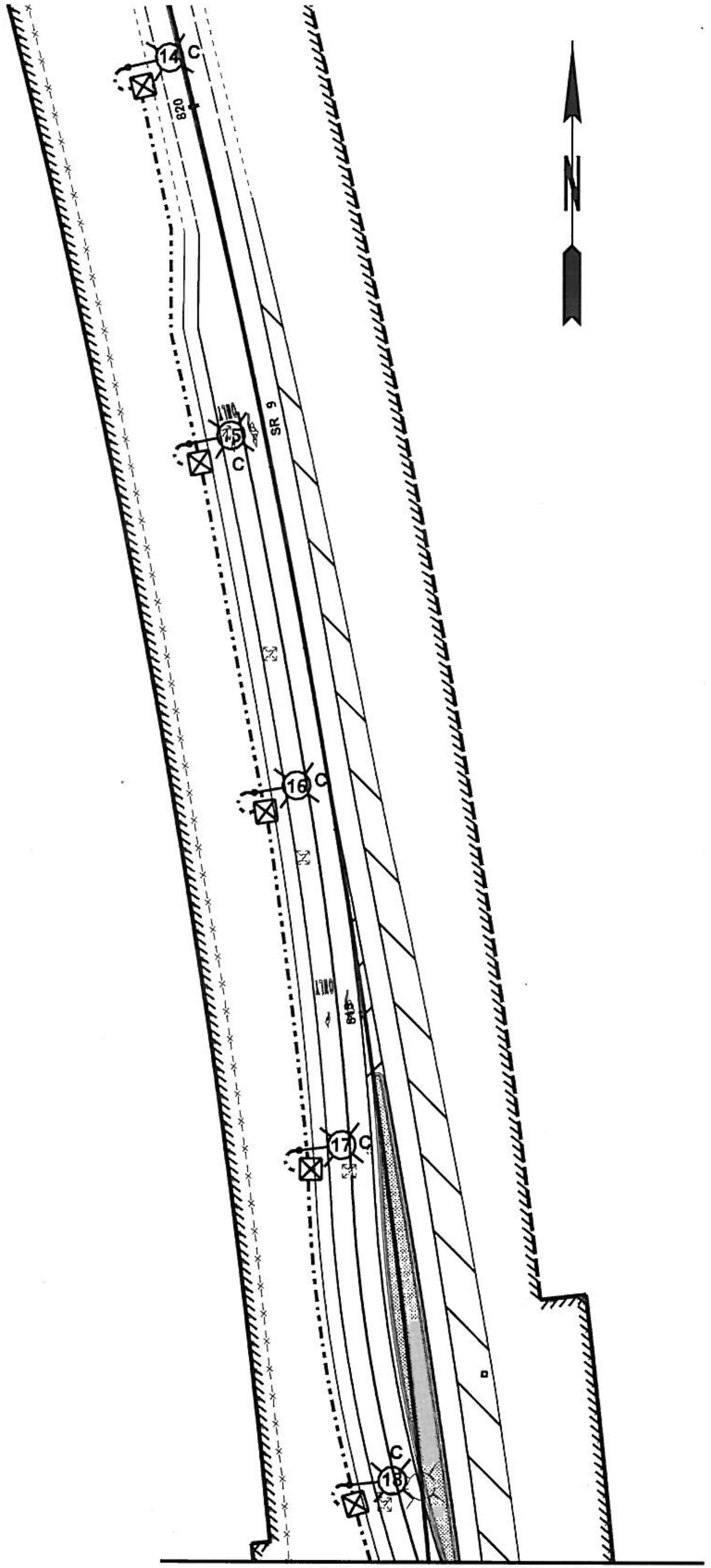
Plot 1

PLAN REF NO
IL1

SHEET

OF

SHEETS

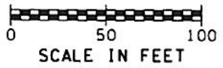


SR 9 STA 812+00
SEE SHEET IL1

BREAKER SCHEDULE SAB 3972 TYPE D SERVICE 120/240V					
CIRCUIT	DESCRIPTION	BREAKER RATING	CONTACTOR RATING	VOLTAGE	LOAD (KVA)
---	MAIN	200 AMP	---	---	---
A	ILLUMINATION A	X	30 AMP	240	X
B	ILLUMINATION B	X	30 AMP	240	X
C	ILLUMINATION C	X	30 AMP	240	X
D	ILLUMINATION D	X	30 AMP	240	X
E	ILLUMINATION E	X	30 AMP	240	X
F	SPARE	20 AMP	N/A	240	0.0
G	SPARE	20 AMP	N/A	240	0.0
H	SIGNAL	X	N/A	120	X
I	GFCI	20 AMP	N/A	120	1.8
J	HEAT STRIP	15 AMP	N/A	120	0.1
K	PHOTOCELL	15 AMP	N/A	120	0.001
BUSSWORK SHALL BE RATED AT 250 AMP MINIMUM			PEAK		X
			CONTINUOUS		X

WIRING SCHEDULE				SERVICE NO. SAB 3972	
△ NO.	CONDUIT SIZE	CONDUCTORS		CIRCUIT	COMMENTS
		EXISTING	NEW		
*	*	*	*	*	*

LUMINAIRE SCHEDULE										SERVICE NO. SAB 3972
LUMINAIRE NUMBER	CIRCUIT	LOCATION		TYPE-DISTRIBUTION-WATTAGE	MAST ARM	H1	BASE TYPE	FOUNDATION TYPE	COMMENTS	
		STATION	OFFSET							
*	*	*	*	*	*	*	*	*	*	



SCALE IN FEET

FILE NAME	C:\Soth\Soth\State\SR009\XL3325_172nd ST IC\CADD\Ill_3325.dgn						
TIME	6:52:41 AM				REGION NO.	STATE	FED.AID PROJ.NO.
DATE	3/24/2010				10	WASH	
PLOTTED BY	kovs				JOB NUMBER		
DESIGNED BY	S. KOV						
ENTERED BY	S. KOV				CONTRACT NO.		LOCATION NO.
CHECKED BY	A. MOSTOWFY						
PROJ. ENGR.	S. SPAHR						
REGIONAL ADM.	L. ENG	REVISION	DATE	BY			

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR 9
SR 531/172ND ST NE
ROUNDABOUT

ILLUMINATION PLAN

Plot 2
PLAN REF NO
IL2
SHEET
OF
SHEETS

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE

TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (feet)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS)	30

ROLL AHEAD STOPPING SIGHT DISTANCE ASSUMES DRY PAVEMENT

* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS, NO ROLL AHEAD DISTANCE IS SPECIFIED.

* * A SECOND ATTENUATOR TRUCK SHALL BE USED TO PROTECT THE OPERATOR FOR REMOVAL AND PLACING OF RPM'S.

MINIMUM TAPER LENGTH = L (feet)

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

SIGN SPACING = X

FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

NOTES:

(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.

(2) EXTEND CHANNELIZING DEVICE TAPER ACROSS SHOULDER.

(3) ALL DEVICE SPACING MAY BE ADJUSTED TO ACCOMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.

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

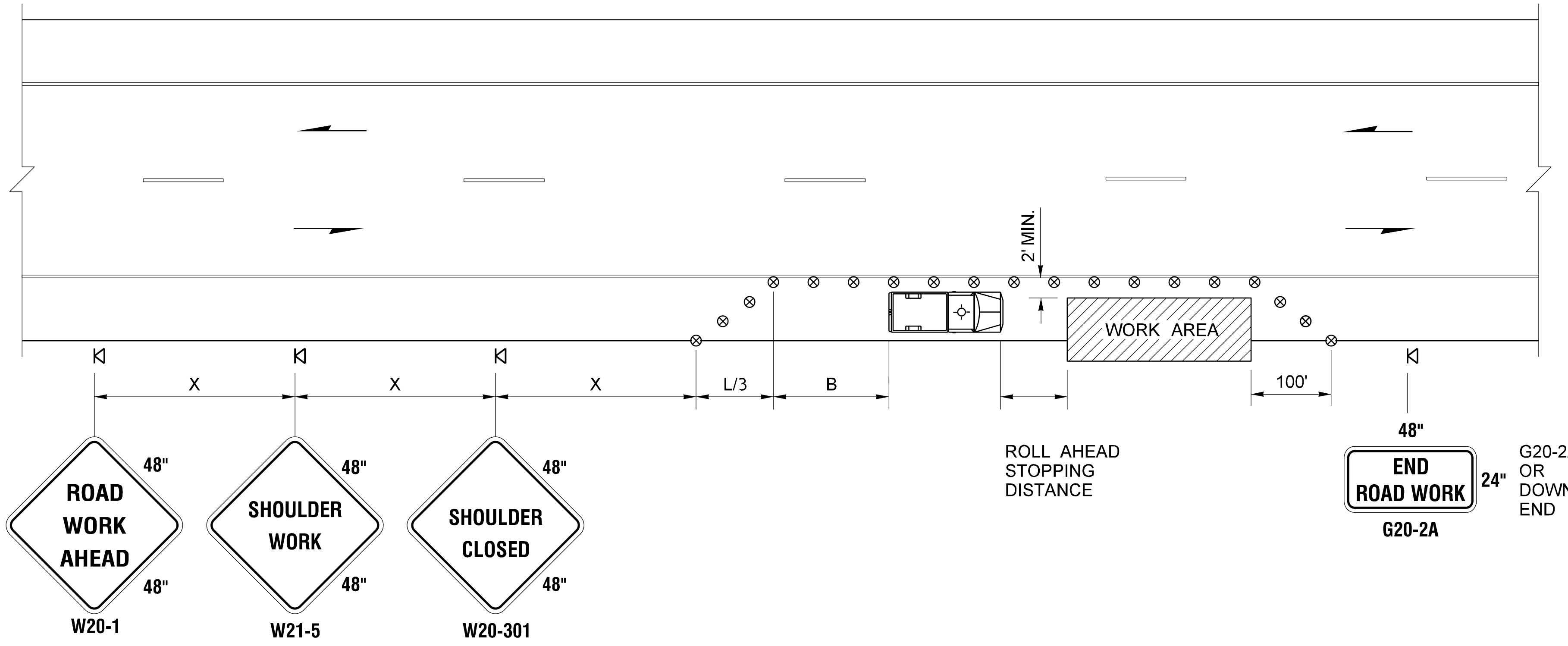
(5) NO ENCROACHMENT ON THE TRAVELED LANE IS PERMITTED. IF ENCROACHMENT IS NECESSARY THE LANE SHALL BE CLOSED.

(6) SIGN SEQUENCE IS THE SAME FOR BOTH DIRECTIONS OF TRAVEL ON THE ROADWAY.

(7) CHANNELIZING DEVICE SPACING FOR THE DOWNSTREAM TAPER OPTION SHALL BE 20' O.C.

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60



ROLL AHEAD STOPPING DISTANCE

G20-2A
OR
DOWNSTREAM TAPER TO SHOW
END OF WORK AREA ~ SEE NOTE 1

LEGEND

⚑	FLAGGING STATION
⊳	SIGN LOCATION
⊗ ⊗ ⊗	CHANNELIZING DEVICES
⊡	PROTECTIVE VEHICLE

SHOULDER CLOSURE

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn
TIME	10:31:49 AM
DATE	3/24/2010
PLOTTED BY	mcreynm
DESIGNED BY	M. LAMAY
ENTERED BY	M. MCREYNOLDS
CHECKED BY	J. KORESKI
PROJ. ENGR.	S. SPAHR
REGIONAL ADM.	L. ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

P.E. STAMP BOX DATE

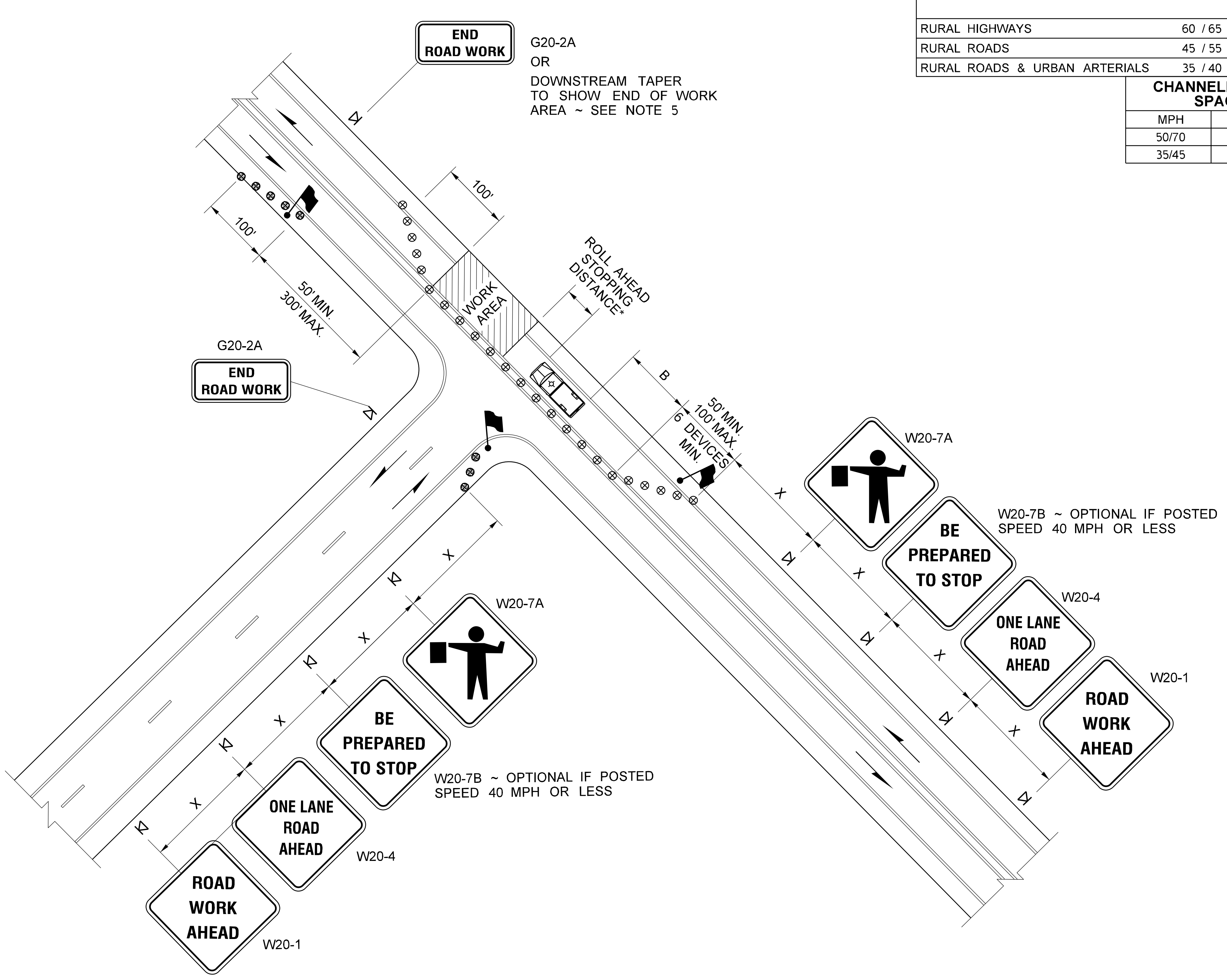
P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

Plot 1
PLAN REF NO
SHEET
OF
SHEETS



SIGN SPACING = X

FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE

TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (feet)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS)	30

ROLL AHEAD STOPPING SIGHT DISTANCE ASSUMES DRY PAVEMENT

* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS, NO ROLL AHEAD DISTANCE IS SPECIFIED.

* * A SECOND ATTENUATOR TRUCK SHALL BE USED TO PROTECT THE OPERATOR FOR REMOVAL AND PLACING OF RPM'S.

MINIMUM TAPER LENGTH = L (feet)

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

NOTES:

(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.

(2) EXTEND CHANNELIZING DEVICE TAPER ACROSS SHOULDER.

(3) ALL DEVICE SPACING MAY BE ADJUSTED TO ACCOMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.

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

(6) SIGN SEQUENCE IS THE SAME FOR BOTH DIRECTIONS OF TRAVEL ON THE ROADWAY.

(7) CHANNELIZING DEVICE SPACING FOR THE DOWNSTREAM TAPER OPTION SHALL BE 20' O.C.

LANE CLOSURE WITH FLAGGER CONTROL

LEGEND

FLAGGING STATION
⊳ SIGN LOCATION
⊗ ⊗ ⊗ CHANNELIZING DEVICES
PROTECTIVE VEHICLE

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn
TIME	10:31:49 AM
DATE	3/24/2010
PLOTTED BY	mcreynm
DESIGNED BY	M. LAMAY
ENTERED BY	M. MCREYNOLDS
CHECKED BY	J. KORESKI
PROJ. ENGR.	S. SPAHR
REGIONAL ADM.	L. ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

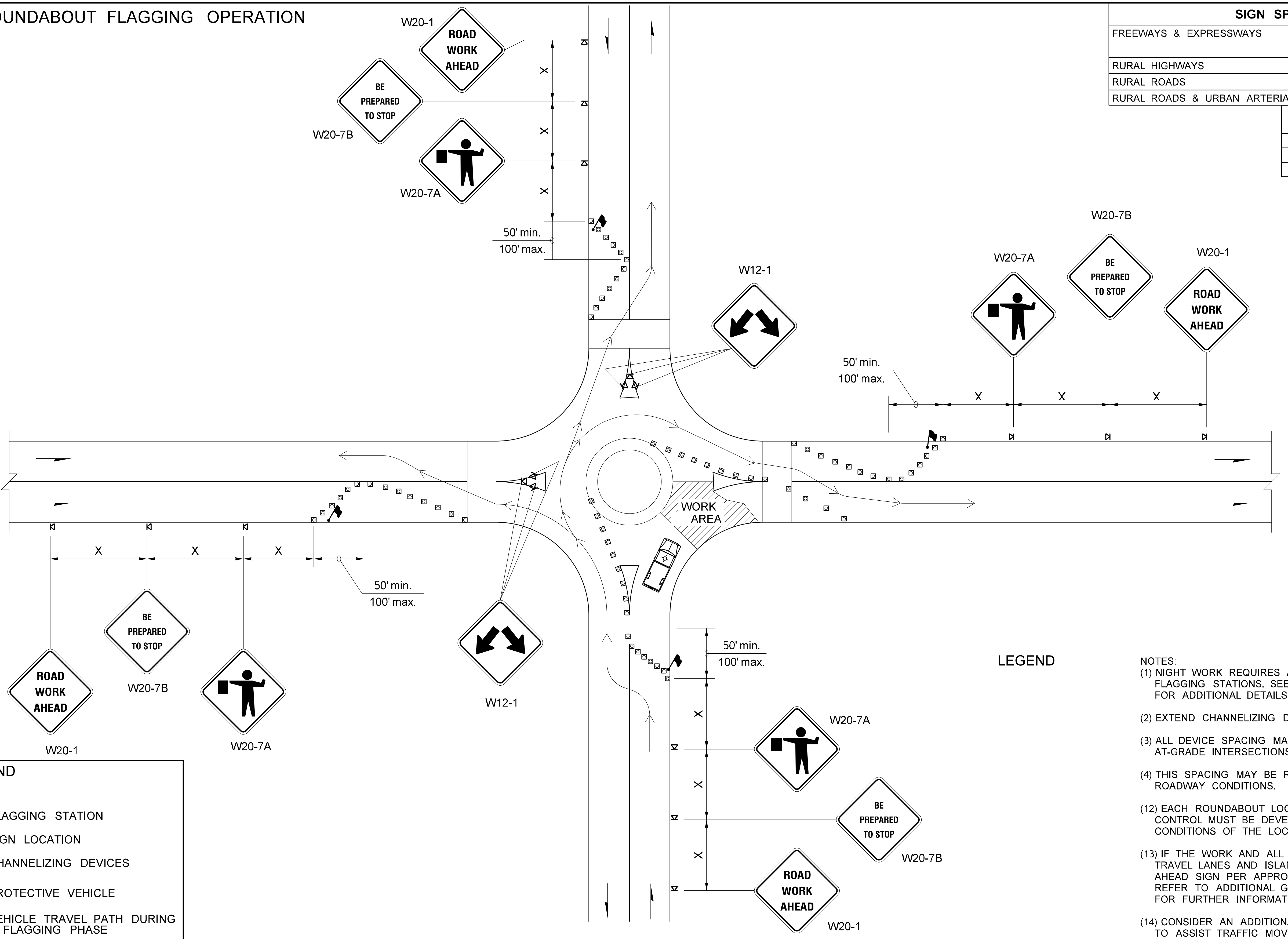
Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

Plot 2
PLAN REF NO
SHEET
OF
SHEETS

TYPICAL ROUNDABOUT FLAGGING OPERATION



SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

LEGEND

⚑	FLAGGING STATION
⊳	SIGN LOCATION
▫ ▫ ▫	CHANNELIZING DEVICES
▭	PROTECTIVE VEHICLE
→	VEHICLE TRAVEL PATH DURING A FLAGGING PHASE

LEGEND

NOTES:

(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.

(2) EXTEND CHANNELIZING DEVICE TAPER ACROSS SHOULDER.

(3) ALL DEVICE SPACING MAY BE ADJUSTED TO ACCOMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.

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

(12) EACH ROUNDABOUT LOCATION IS UNIQUE AND THE TRAFFIC CONTROL MUST BE DEVELOPED TO MEET THE SPECIFIC CONDITIONS OF THE LOCATION AND THE WORK OPERATION.

(13) IF THE WORK AND ALL WORK VEHICLES ARE OFF OF THE TRAVEL LANES AND ISLAND APRON, A SINGLE ROAD WORK AHEAD SIGN PER APPROACH IS ALL THAT IS REQUIRED. REFER TO ADDITIONAL GUIDANCE IN THE MUTCD MANUAL FOR FURTHER INFORMATION.

(14) CONSIDER AN ADDITIONAL FLAGGER IN CENTER ISLAND TO ASSIST TRAFFIC MOVEMENT THROUGH ROUNDABOUT OR ADDITIONAL SIGNING AS APPROPRIATE.

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn
TIME	10:31:50 AM
DATE	3/24/2010
PLOTTED BY	mcreynm
DESIGNED BY	M. LAMAY
ENTERED BY	M. MCREYNOLDS
CHECKED BY	J. KORESKI
PROJ. ENGR.	S. SPAHR
REGIONAL ADM.	L. ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

Plot 3
PLAN REF NO
SHEET
OF
SHEETS

LEGEND

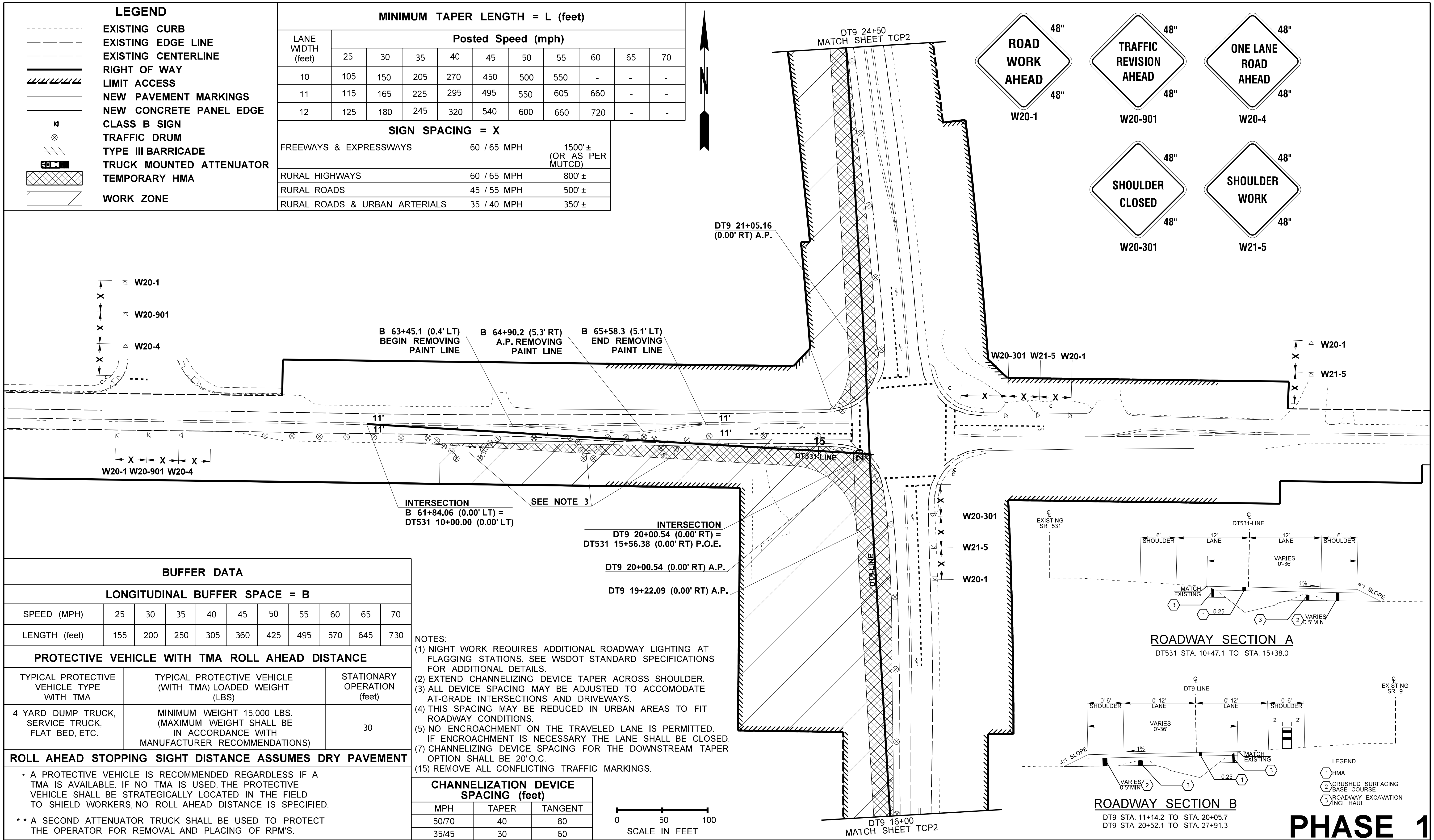
- - - -	EXISTING CURB
— — —	EXISTING EDGE LINE
═ ═ ═	EXISTING CENTERLINE
━━━	RIGHT OF WAY
⫽⫽⫽	LIMIT ACCESS
───	NEW PAVEMENT MARKINGS
───	NEW CONCRETE PANEL EDGE
⊲	CLASS B SIGN
⊗	TRAFFIC DRUM
⫽	TYPE III BARRICADE
▬	TRUCK MOUNTED ATTENUATOR
▨	TEMPORARY HMA
▱	WORK ZONE

MINIMUM TAPER LENGTH = L (feet)

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

SIGN SPACING = X

FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±



BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE

TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (feet)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS)	30

ROLL AHEAD STOPPING SIGHT DISTANCE ASSUMES DRY PAVEMENT

* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS, NO ROLL AHEAD DISTANCE IS SPECIFIED.

* * A SECOND ATTENUATOR TRUCK SHALL BE USED TO PROTECT THE OPERATOR FOR REMOVAL AND PLACING OF RPM'S.

NOTES:

(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
(2) EXTEND CHANNELIZING DEVICE TAPER ACROSS SHOULDER.
(3) ALL DEVICE SPACING MAY BE ADJUSTED TO ACCOMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(4) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.
(5) NO ENCROACHMENT ON THE TRAVELED LANE IS PERMITTED. IF ENCROACHMENT IS NECESSARY THE LANE SHALL BE CLOSED.
(7) CHANNELIZING DEVICE SPACING FOR THE DOWNSTREAM TAPER OPTION SHALL BE 20' O.C.
(15) REMOVE ALL CONFLICTING TRAFFIC MARKINGS.

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

PHASE 1

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn
TIME	10:31:51 AM
DATE	3/24/2010
PLOTTED BY	mcreynm
DESIGNED BY	M. LAMAY
ENTERED BY	M. MCREYNOLDS
CHECKED BY	J. KORESKI
PROJ. ENGR.	S. SPAHR
REGIONAL ADM.	L. ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

DATE
P.E. STAMP BOX

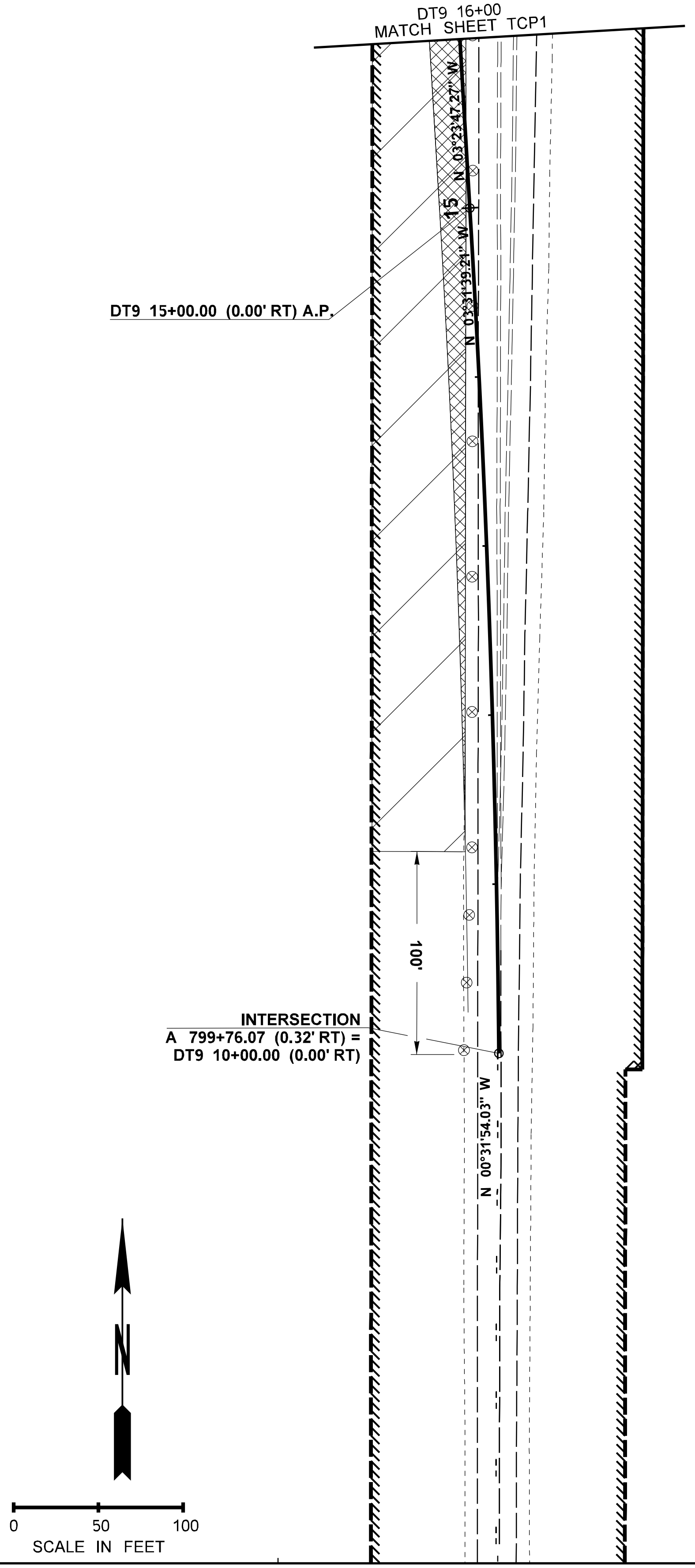
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

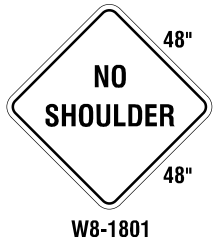
SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

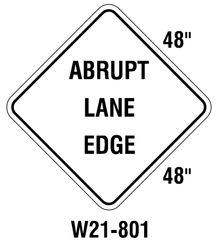
Plot 5
PLAN REF NO
TC1
SHEET
4
OF
SHEETS



W20-1



W8-1801



W21-801

LEGEND

┈┈┈	EXISTING CURB	◘	CLASS B SIGN
— — —	EXISTING EDGE LINE	⊗	TRAFFIC DRUM
═ ═ ═	EXISTING CENTERLINE	╪╪╪	TYPE III BARRICADE
━━━	RIGHT OF WAY	▬	TRUCK MOUNTED ATTENUATOR
⫽⫽⫽	LIMIT ACCESS	▩	TEMPORARY HMA
──	NEW PAVEMENT MARKINGS		
──	NEW CONCRETE PANEL EDGE	▨	WORK ZONE

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

NOTES:
(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
(2) EXTEND CHANNELIZING DEVICE TAPER ACROSS SHOULDER.
(3) ALL DEVICE SPACING MAY BE ADJUSTED TO ACCOMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(4) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.
(5) NO ENCROACHMENT ON THE TRAVELED LANE IS PERMITTED. IF ENCROACHMENT IS NECESSARY THE LANE SHALL BE CLOSED.
(7) CHANNELIZING DEVICE SPACING FOR THE DOWNSTREAM TAPER OPTION SHALL BE 20' O.C.
(8) SEE TC1 FOR TEMPORARY HMA ROADWAY SECTIONS
(15) REMOVE ALL CONFLICTING TRAFFIC MARKINGS.

SIGN SPACING = X

FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

MINIMUM TAPER LENGTH = L (feet)

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

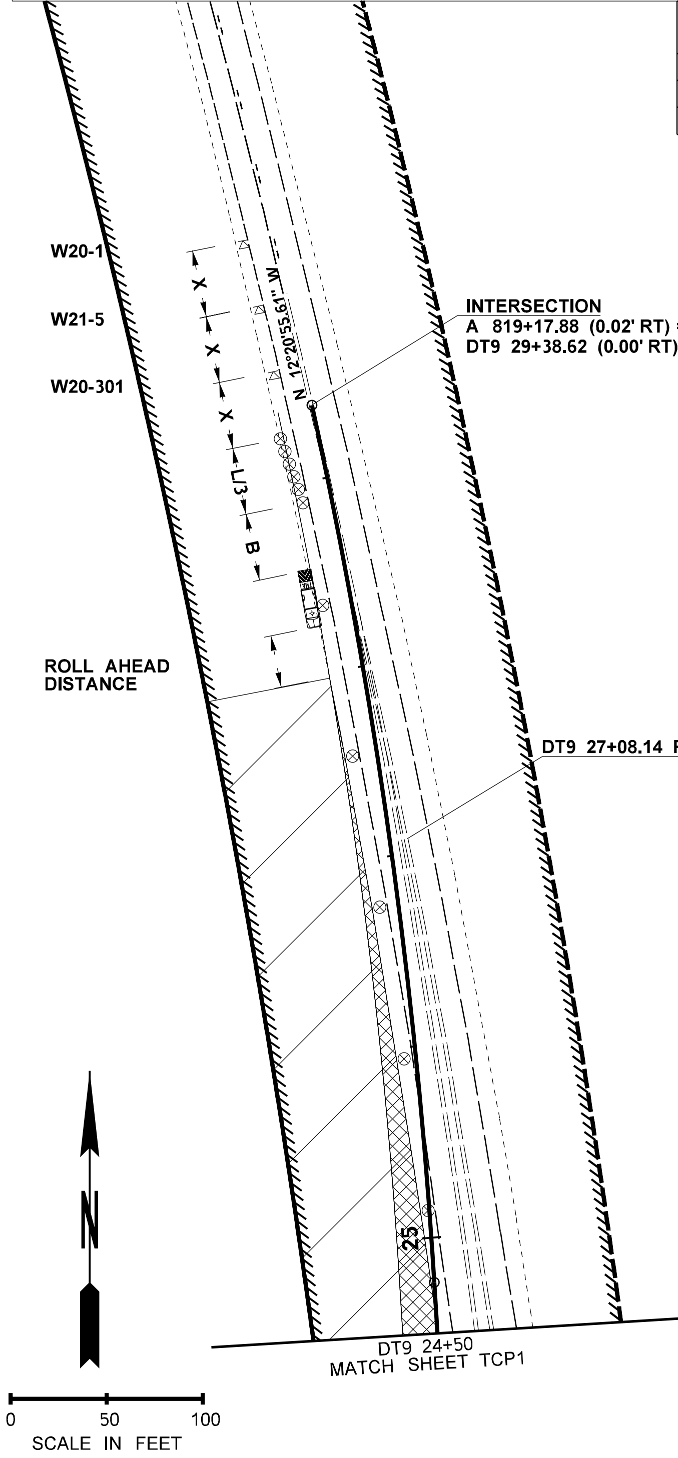
PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE

TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (feet)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS)	30

ROLL AHEAD STOPPING SIGHT DISTANCE ASSUMES DRY PAVEMENT

* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS, NO ROLL AHEAD DISTANCE IS SPECIFIED.

* * A SECOND ATTENUATOR TRUCK SHALL BE USED TO PROTECT THE OPERATOR FOR REMOVAL AND PLACING OF RPM'S.



PHASE 1

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn		
TIME	10:31:52 AM		
DATE	3/24/2010		
PLOTTED BY	mcreynm		
DESIGNED BY	M. LAMAY		
ENTERED BY	M. MCREYNOLDS		
CHECKED BY	J. KORESKI		
PROJ. ENGR.	S. SPAHR		
REGIONAL ADM.	L. ENG		
	REVISION	DATE	BY

REGION NO. 10
STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

Plot 6
PLAN REF NO
TC2
SHEET
5
OF
SHEETS

LEGEND

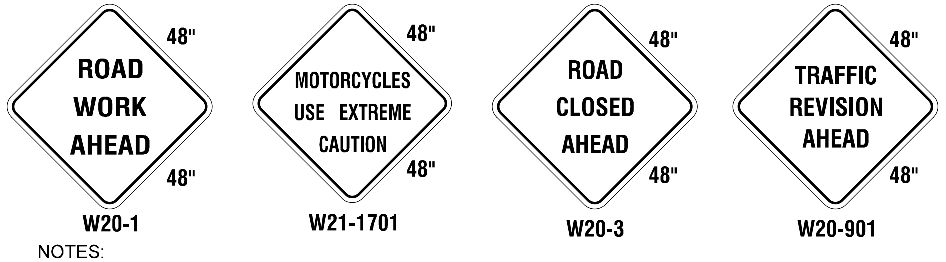
- EXISTING CURB
- EXISTING EDGE LINE
- EXISTING CENTERLINE
- RIGHT OF WAY
- LIMIT ACCESS
- NEW PAVEMENT MARKINGS
- NEW CONCRETE PANEL EDGE
- CLASS B SIGN
- ⊗ TRAFFIC DRUM
- TYPE III BARRICADE
- TRUCK MOUNTED ATTENUATOR
- ▨ TEMPORARY HMA
- WORK ZONE

MINIMUM TAPER LENGTH = L (feet)

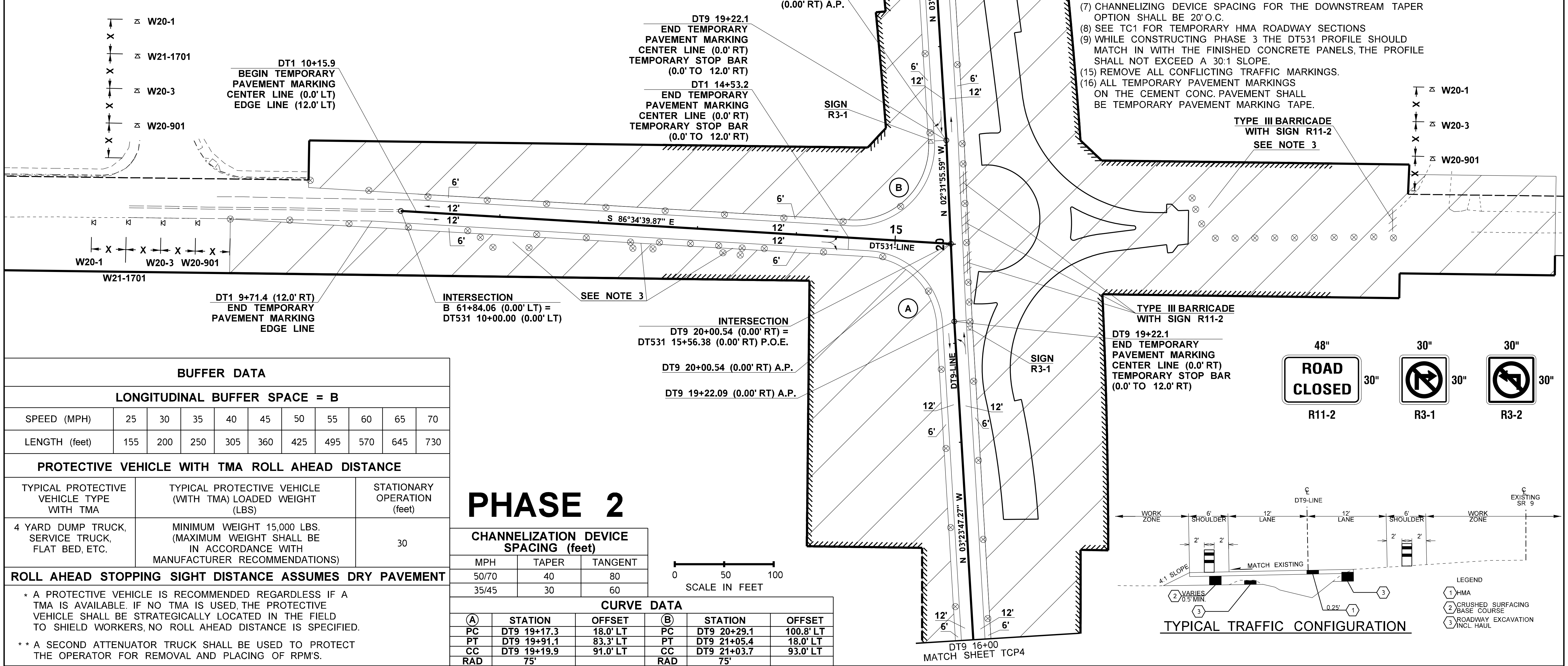
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

SIGN SPACING = X

FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±



NOTES:
(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
(2) EXTEND CHANNELIZING DEVICE TAPER ACROSS SHOULDER.
(3) ALL DEVICE SPACING MAY BE ADJUSTED TO ACCOMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(4) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.
(5) NO ENCROACHMENT ON THE TRAVELED LANE IS PERMITTED. IF ENCROACHMENT IS NECESSARY THE LANE SHALL BE CLOSED.
(7) CHANNELIZING DEVICE SPACING FOR THE DOWNSTREAM TAPER OPTION SHALL BE 20' O.C.
(8) SEE TC1 FOR TEMPORARY HMA ROADWAY SECTIONS
(9) WHILE CONSTRUCTING PHASE 3 THE DT531 PROFILE SHOULD MATCH IN WITH THE FINISHED CONCRETE PANELS, THE PROFILE SHALL NOT EXCEED A 30:1 SLOPE.
(15) REMOVE ALL CONFLICTING TRAFFIC MARKINGS.
(16) ALL TEMPORARY PAVEMENT MARKINGS ON THE CEMENT CONC. PAVEMENT SHALL BE TEMPORARY PAVEMENT MARKING TAPE.



TYPICAL TRAFFIC CONFIGURATION

PHASE 2

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE

TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (feet)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS)	30

ROLL AHEAD STOPPING SIGHT DISTANCE ASSUMES DRY PAVEMENT

* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS, NO ROLL AHEAD DISTANCE IS SPECIFIED.

* * A SECOND ATTENUATOR TRUCK SHALL BE USED TO PROTECT THE OPERATOR FOR REMOVAL AND PLACING OF RPM'S.

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

CURVE DATA

Ⓐ	STATION	OFFSET	Ⓑ	STATION	OFFSET
PC	DT9 19+17.3	18.0' LT	PC	DT9 20+29.1	100.8' LT
PT	DT9 19+91.1	83.3' LT	PT	DT9 21+05.4	18.0' LT
CC	DT9 19+19.9	91.0' LT	CC	DT9 21+03.7	93.0' LT
RAD	75'		RAD	75'	

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn			
TIME	10:31:53 AM			
DATE	3/24/2010			
PLOTTED BY	mcreynm			
DESIGNED BY	M. LAMAY			
ENTERED BY	M. MCREYNOLDS			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S. SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

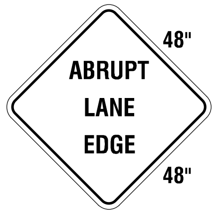
SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

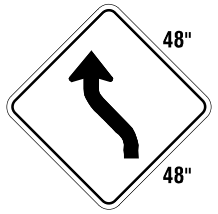
Plot 7
PLAN REF NO
TC3
SHEET
6
OF
SHEETS

W20-1

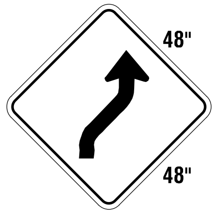
W21-1701



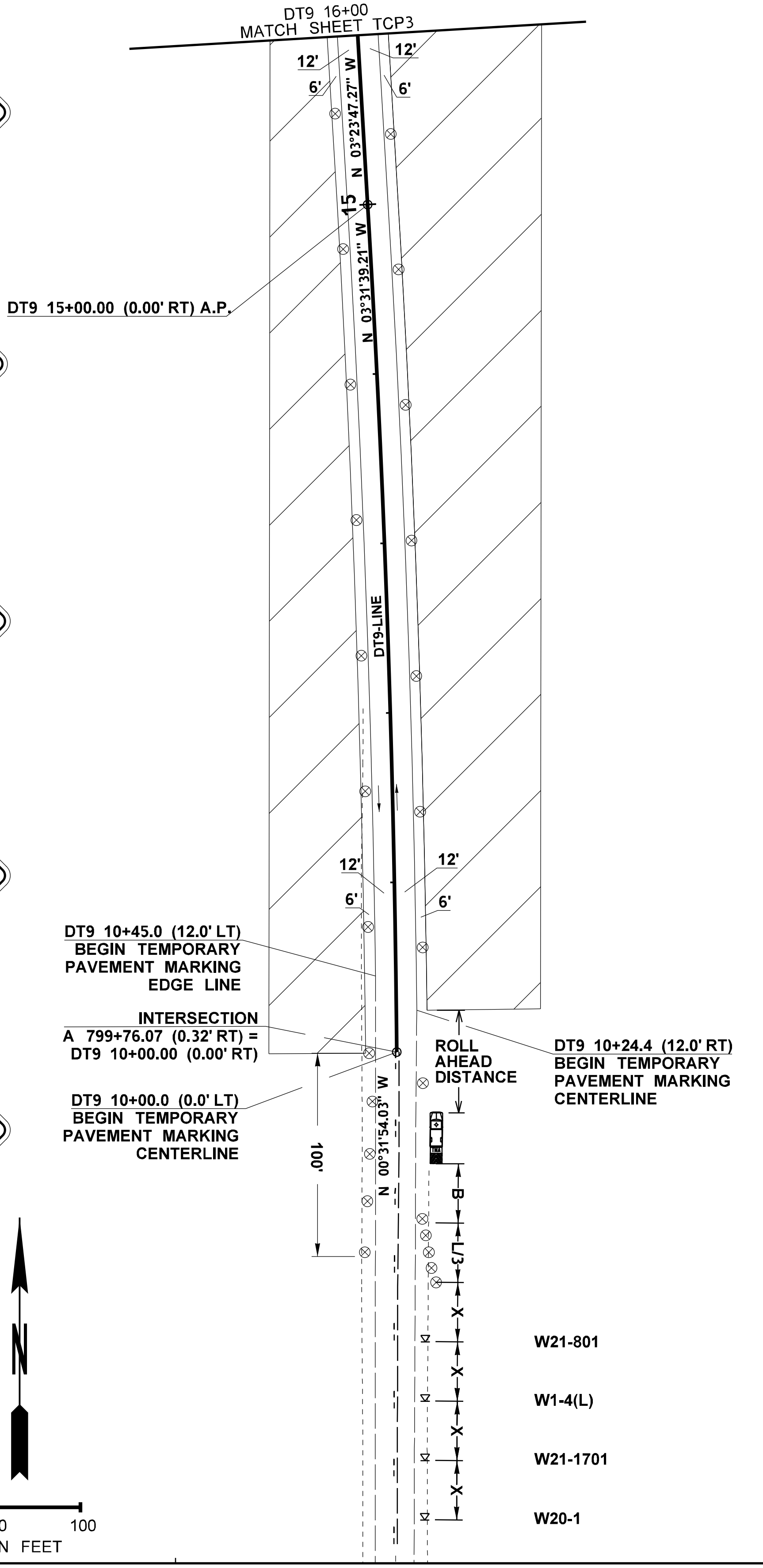
W21-801



W1-4(L)



W1-4(R)



NOTES:
(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
(2) EXTEND CHANNELIZING DEVICE TAPER ACROSS SHOULDER.
(3) ALL DEVICE SPACING MAY BE ADJUSTED TO ACCOMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(4) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.
(5) NO ENCROACHMENT ON THE TRAVELED LANE IS PERMITTED. IF ENCROACHMENT IS NECESSARY THE LANE SHALL BE CLOSED.
(7) CHANNELIZING DEVICE SPACING FOR THE DOWNSTREAM TAPER OPTION SHALL BE 20' O.C.
(8) SEE TC1 FOR TEMPORARY HMA ROADWAY SECTIONS
(9) WHILE CONSTRUCTING PHASE 3 THE DT531 PROFILE SHOULD MATCH IN WITH THE FINISHED CONCRETE PANELS, THE PROFILE SHALL NOT EXCEED A 30:1 SLOPE.
(15) REMOVE ALL CONFLICTING TRAFFIC MARKINGS.
(16) ALL TEMPORARY PAVEMENT MARKINGS ON THE CEMENT CONC. PAVEMENT SHALL BE TEMPORARY PAVEMENT MARKING TAPE.

SIGN SPACING = X

FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

MINIMUM TAPER LENGTH = L (feet)

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE

TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (feet)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS)	30

ROLL AHEAD STOPPING SIGHT DISTANCE ASSUMES DRY PAVEMENT

* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS, NO ROLL AHEAD DISTANCE IS SPECIFIED.

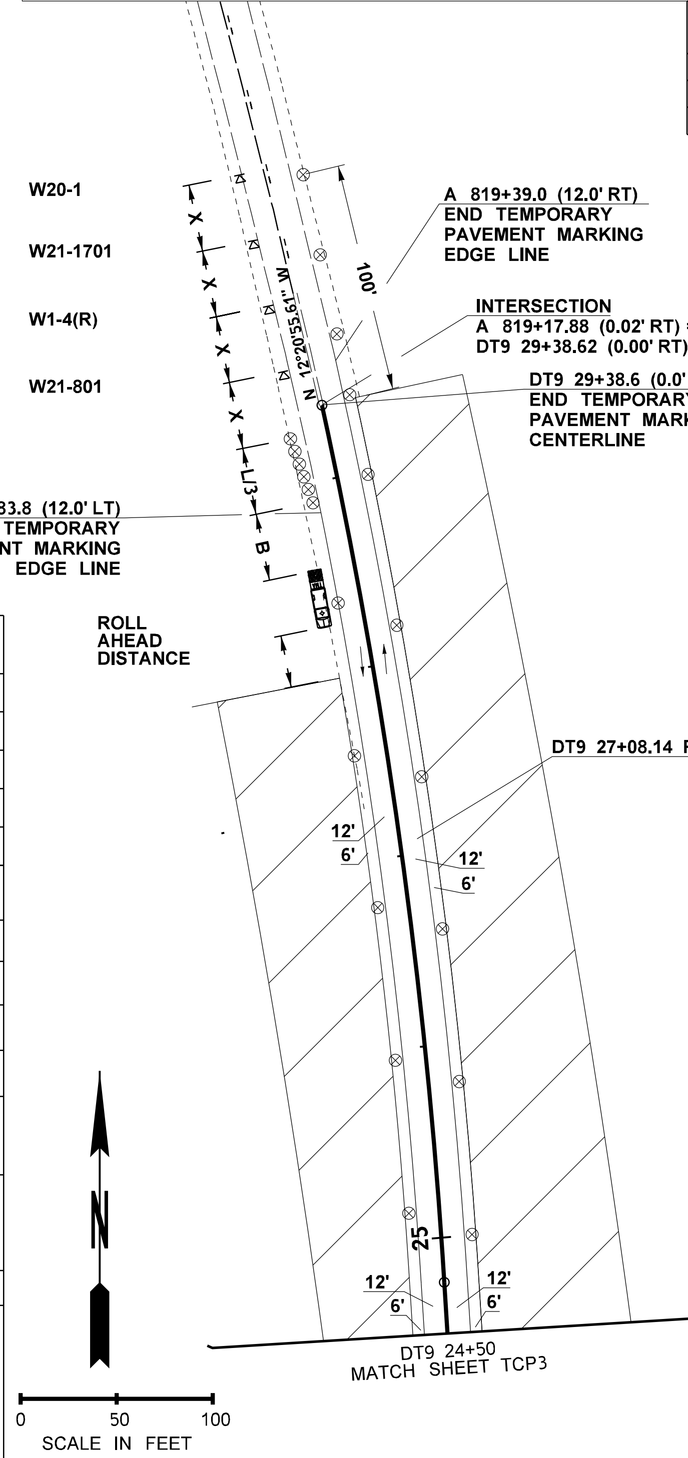
* * A SECOND ATTENUATOR TRUCK SHALL BE USED TO PROTECT THE OPERATOR FOR REMOVAL AND PLACING OF RPM'S.

LEGEND

- - - - - -	EXISTING CURB	⊠	CLASS B SIGN
— — —	EXISTING EDGE LINE	⊗	TRAFFIC DRUM
═ ═ ═	EXISTING CENTERLINE	⫽⫽⫽	TYPE III BARRICADE
━━━━	RIGHT OF WAY	▬	TRUCK MOUNTED ATTENUATOR
╱╱╱╱	LIMIT ACCESS	▩	TEMPORARY HMA
────	NEW PAVEMENT MARKINGS	▨	WORK ZONE
────	NEW CONCRETE PANEL EDGE		

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60



PHASE 2

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn
TIME	10:31:54 AM
DATE	3/24/2010
PLOTTED BY	mcreynm
DESIGNED BY	M. LAMAY
ENTERED BY	M. MCREYNOLDS
CHECKED BY	J. KORESKI
PROJ. ENGR.	S. SPAHR
REGIONAL ADM.	L. ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

Plot 8
PLAN REF NO
TC4
SHEET
7
OF
SHEETS

LEGEND

┄┄┄	EXISTING CURB
— — —	EXISTING EDGE LINE
═══	EXISTING CENTERLINE
━━━	RIGHT OF WAY
▨	LIMIT ACCESS
───	NEW PAVEMENT MARKINGS
───	NEW CONCRETE PANEL EDGE
⊲	CLASS B SIGN
⊗	TRAFFIC DRUM
⫽	TYPE III BARRICADE
▬	TRUCK MOUNTED ATTENUATOR
▨	TEMPORARY HMA
▱	WORK ZONE

MINIMUM TAPER LENGTH = L (feet)

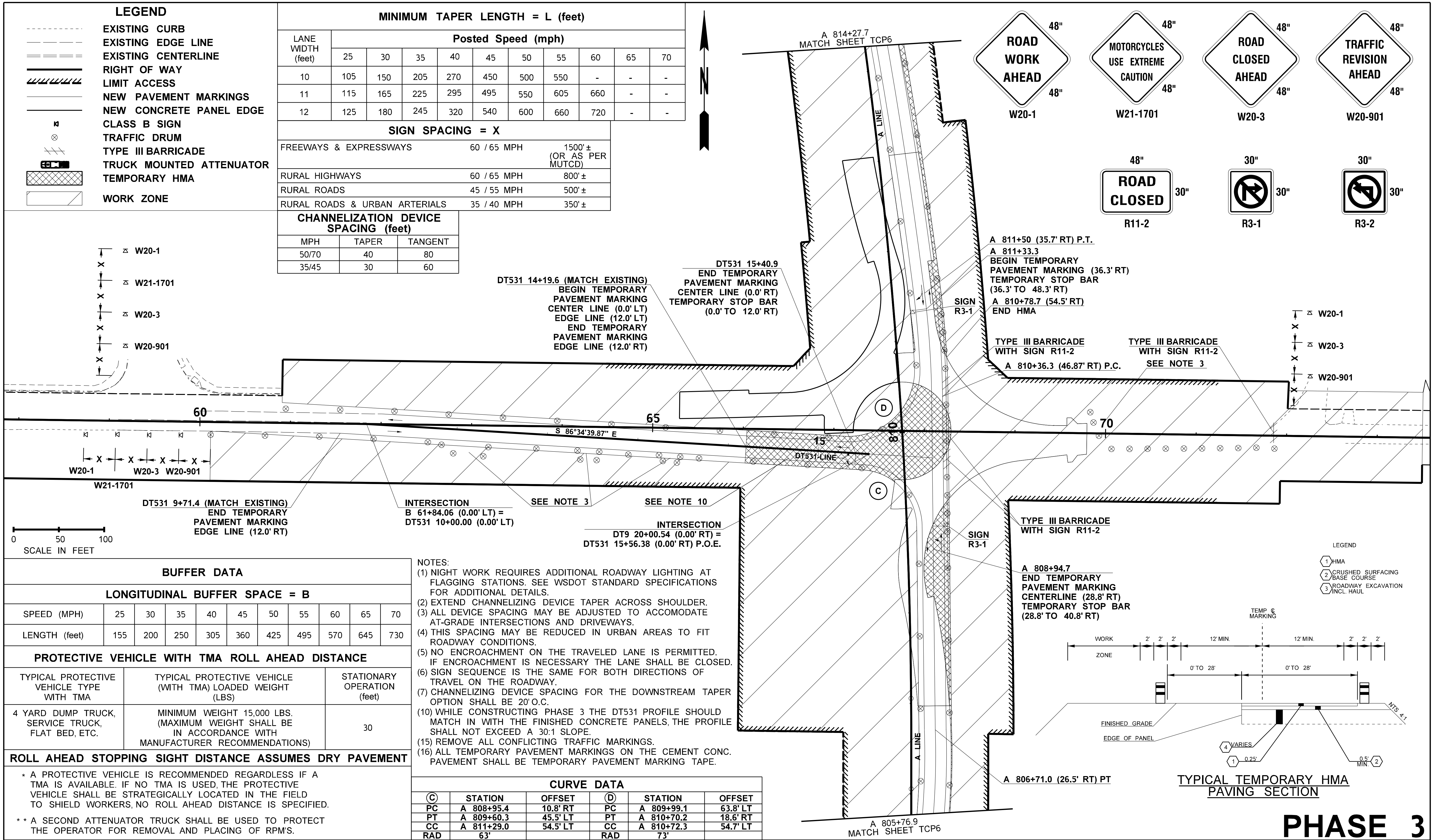
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

SIGN SPACING = X

FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60



TYPICAL TEMPORARY HMA PAVING SECTION

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE

TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (feet)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS)	30

ROLL AHEAD STOPPING SIGHT DISTANCE ASSUMES DRY PAVEMENT

* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS, NO ROLL AHEAD DISTANCE IS SPECIFIED.

* * A SECOND ATTENUATOR TRUCK SHALL BE USED TO PROTECT THE OPERATOR FOR REMOVAL AND PLACING OF RPM'S.

NOTES:

(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
(2) EXTEND CHANNELIZING DEVICE TAPER ACROSS SHOULDER.
(3) ALL DEVICE SPACING MAY BE ADJUSTED TO ACCOMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(4) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.
(5) NO ENCROACHMENT ON THE TRAVELED LANE IS PERMITTED. IF ENCROACHMENT IS NECESSARY THE LANE SHALL BE CLOSED.
(6) SIGN SEQUENCE IS THE SAME FOR BOTH DIRECTIONS OF TRAVEL ON THE ROADWAY.
(7) CHANNELIZING DEVICE SPACING FOR THE DOWNSTREAM TAPER OPTION SHALL BE 20' O.C.
(10) WHILE CONSTRUCTING PHASE 3 THE DT531 PROFILE SHOULD MATCH IN WITH THE FINISHED CONCRETE PANELS, THE PROFILE SHALL NOT EXCEED A 30:1 SLOPE.
(15) REMOVE ALL CONFLICTING TRAFFIC MARKINGS.
(16) ALL TEMPORARY PAVEMENT MARKINGS ON THE CEMENT CONC. PAVEMENT SHALL BE TEMPORARY PAVEMENT MARKING TAPE.

CURVE DATA

Ⓒ	STATION	OFFSET	Ⓓ	STATION	OFFSET
PC	A 808+95.4	10.8' RT	PC	A 809+99.1	63.8' LT
PT	A 809+60.3	45.5' LT	PT	A 810+70.2	18.6' RT
CC	A 811+29.0	54.5' LT	CC	A 810+72.3	54.7' LT
RAD	63'		RAD	73'	

PHASE 3

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn
TIME	10:31:55 AM
DATE	3/24/2010
PLOTTED BY	mcreynm
DESIGNED BY	M. LAMAY
ENTERED BY	M. MCREYNOLDS
CHECKED BY	J. KORESKI
PROJ. ENGR.	S. SPAHR
REGIONAL ADM.	L. ENG

REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

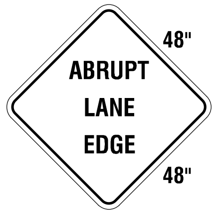
Plot 9

PLAN REF NO
TC5

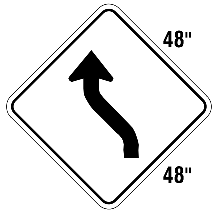
SHEET
8
OF
SHEETS

W20-1

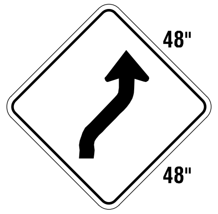
W21-1701



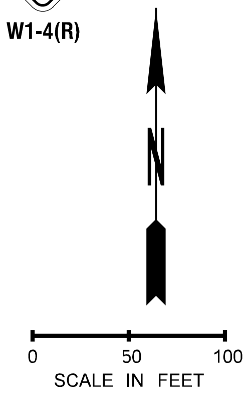
W21-801

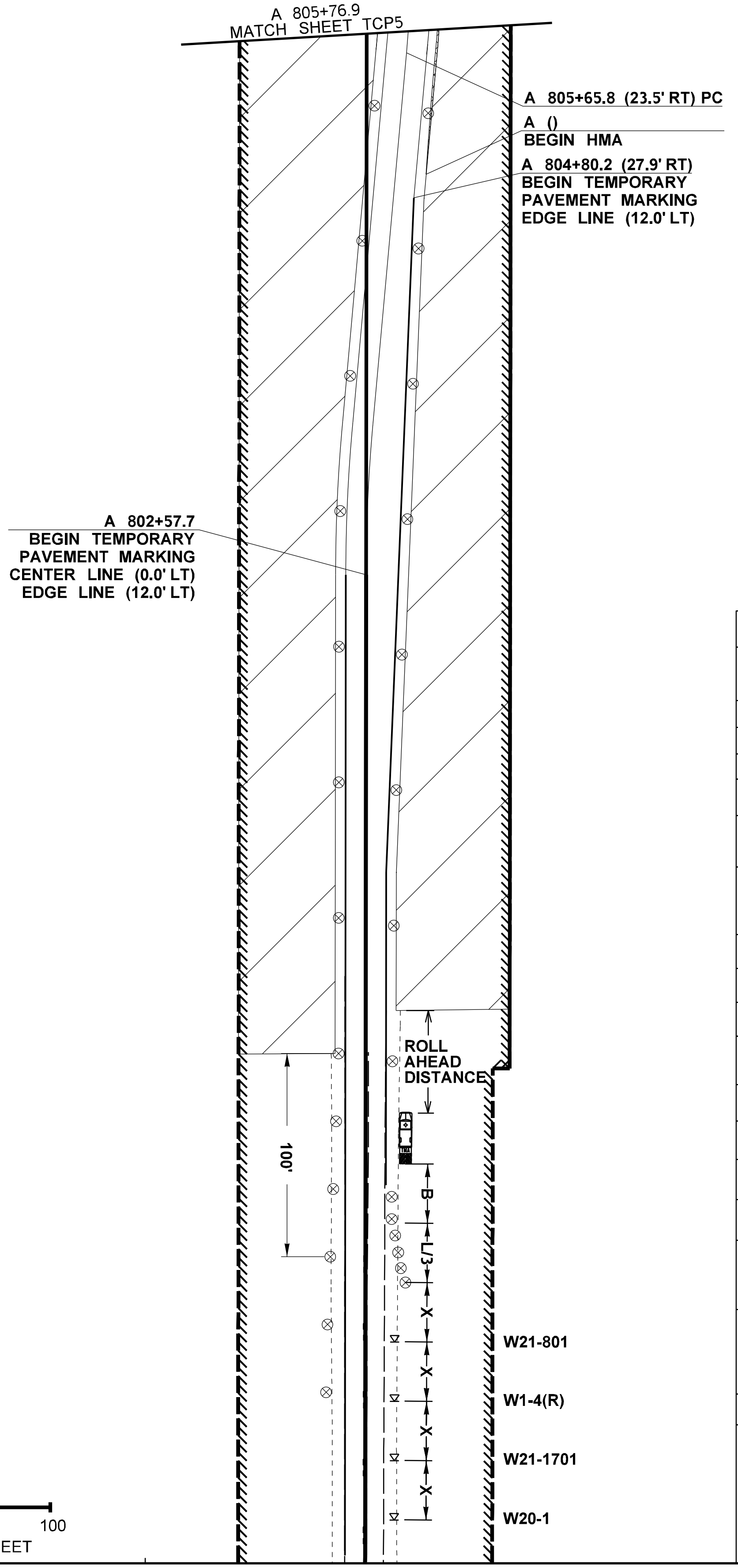


W1-4(L)



W1-4(R)





NOTES:
(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
(2) EXTEND CHANNELIZING DEVICE TAPER ACROSS SHOULDER.
(3) ALL DEVICE SPACING MAY BE ADJUSTED TO ACCOMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(4) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.
(5) NO ENCROACHMENT ON THE TRAVELED LANE IS PERMITTED. IF ENCROACHMENT IS NECESSARY THE LANE SHALL BE CLOSED.
(6) SIGN SEQUENCE IS THE SAME FOR BOTH DIRECTIONS OF TRAVEL ON THE ROADWAY.
(7) CHANNELIZING DEVICE SPACING FOR THE DOWNSTREAM TAPER OPTION SHALL BE 20' O.C.
(9) SEE TC5 FOR TEMPORARY HMA ROADWAY SECTIONS
(10) WHILE CONSTRUCTING PHASE 3 THE DT531 PROFILE SHOULD MATCH IN WITH THE FINISHED CONCRETE PANELS, THE PROFILE SHALL NOT EXCEED A 30:1 SLOPE.
(15) REMOVING ALL CONFLICTING TRAFFIC MARKINGS.
(16) ALL TEMPORARY PAVEMENT MARKINGS ON THE CEMENT CONC. PAVEMENT SHALL BE TEMPORARY PAVEMENT MARKING TAPE.

SIGN SPACING = X

	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

MINIMUM TAPER LENGTH = L (feet)

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE

TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (feet)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS)	30

ROLL AHEAD STOPPING SIGHT DISTANCE ASSUMES DRY PAVEMENT

* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS, NO ROLL AHEAD DISTANCE IS SPECIFIED.

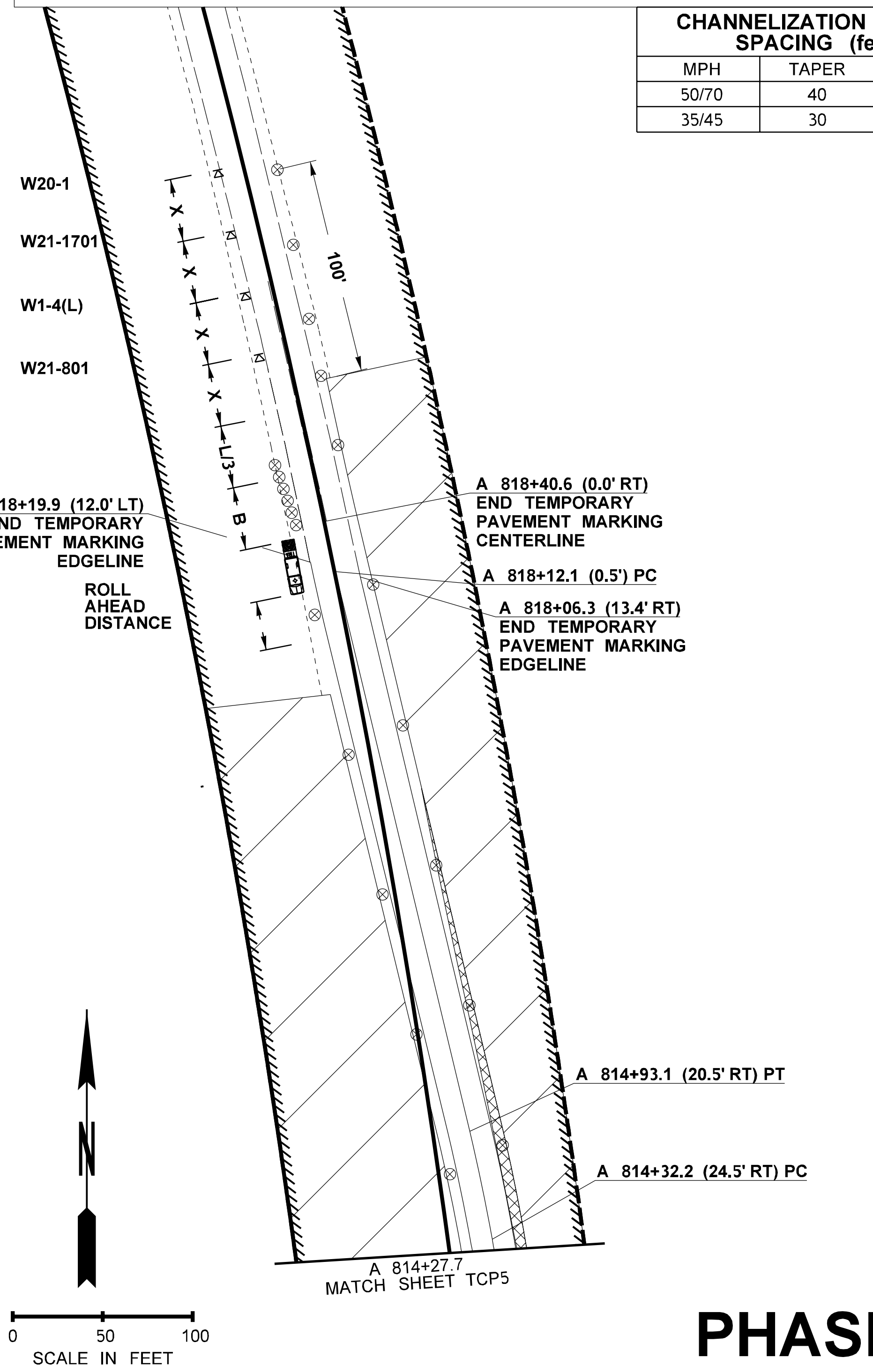
* * A SECOND ATTENUATOR TRUCK SHALL BE USED TO PROTECT THE OPERATOR FOR REMOVAL AND PLACING OF RPM'S.

LEGEND

- - - - -	EXISTING CURB	⊠	CLASS B SIGN
— — —	EXISTING EDGE LINE	⊗	TRAFFIC DRUM
═ ═ ═	EXISTING CENTERLINE	╫╫	TYPE III BARRICADE
━━━	RIGHT OF WAY	▬	TRUCK MOUNTED ATTENUATOR
//////	LIMIT ACCESS	▨	TEMPORARY HMA
———	NEW PAVEMENT MARKINGS		
———	NEW CONCRETE PANEL EDGE	▱	WORK ZONE

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60



PHASE 3

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn			
TIME	10:31:56 AM			
DATE	3/24/2010			
PLOTTED BY	mcreynm			
DESIGNED BY	M. LAMAY			
ENTERED BY	M. MCREYNOLDS			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S. SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO. 10
STATE WASH
FED.AID PROJ.NO.
JOB NUMBER
CONTRACT NO.
LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

Plot 10
PLAN REF NO
TC6
SHEET
9
OF
SHEETS

LEGEND

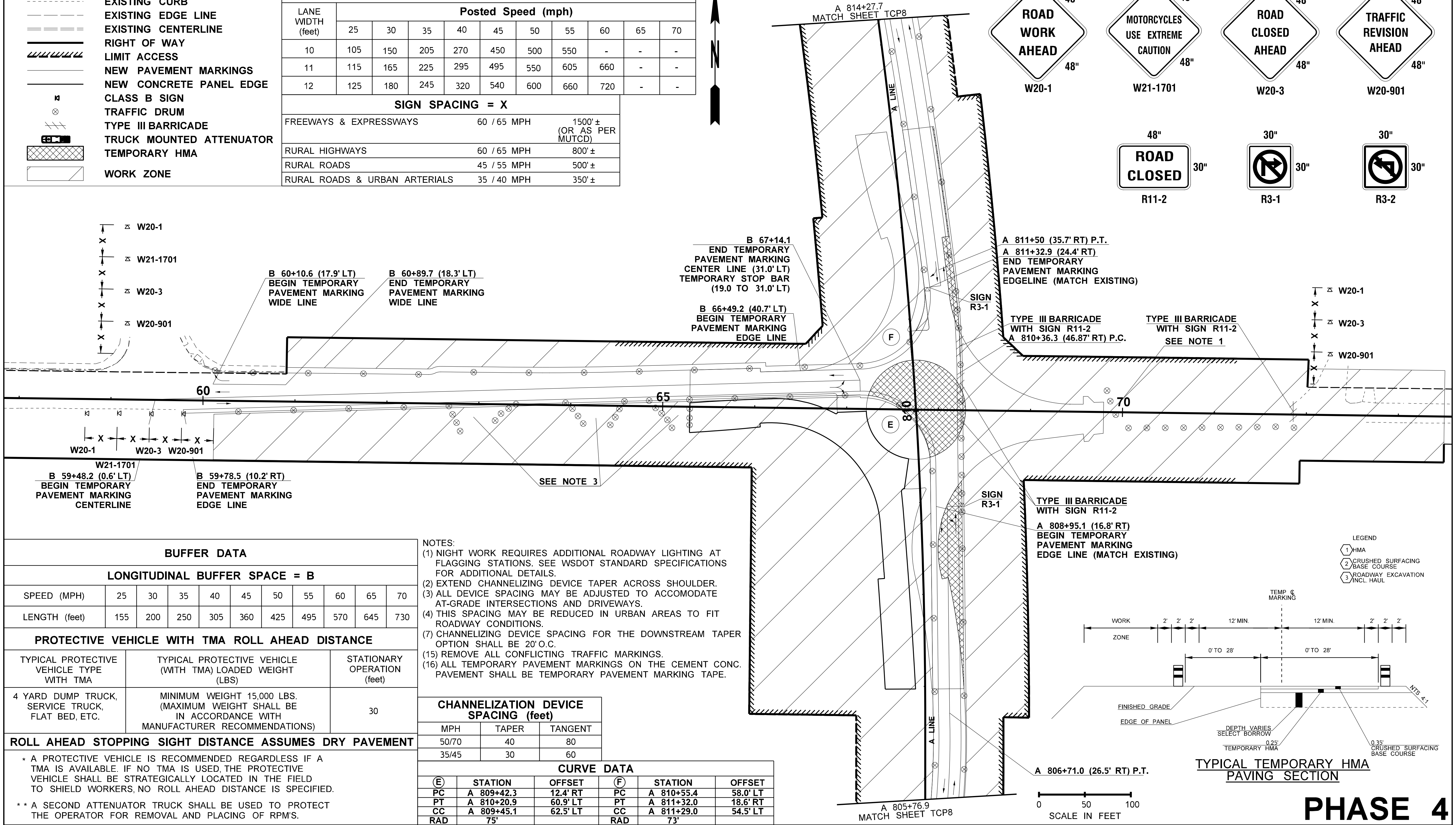
- - - - -	EXISTING CURB
— — — —	EXISTING EDGE LINE
═ ═ ═ ═	EXISTING CENTERLINE
━━━━	RIGHT OF WAY
▨	LIMIT ACCESS
────	NEW PAVEMENT MARKINGS
────	NEW CONCRETE PANEL EDGE
◁	CLASS B SIGN
⊗	TRAFFIC DRUM
╪	TYPE III BARRICADE
■	TRUCK MOUNTED ATTENUATOR
▩	TEMPORARY HMA
▱	WORK ZONE

MINIMUM TAPER LENGTH = L (feet)

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

SIGN SPACING = X

FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±



TYPICAL TEMPORARY HMA PAVING SECTION

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE

TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (feet)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS)	30

ROLL AHEAD STOPPING SIGHT DISTANCE ASSUMES DRY PAVEMENT

* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS, NO ROLL AHEAD DISTANCE IS SPECIFIED.

* * A SECOND ATTENUATOR TRUCK SHALL BE USED TO PROTECT THE OPERATOR FOR REMOVAL AND PLACING OF RPM'S.

NOTES:

(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
(2) EXTEND CHANNELIZING DEVICE TAPER ACROSS SHOULDER.
(3) ALL DEVICE SPACING MAY BE ADJUSTED TO ACCOMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(4) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.
(7) CHANNELIZING DEVICE SPACING FOR THE DOWNSTREAM TAPER OPTION SHALL BE 20' O.C.
(15) REMOVE ALL CONFLICTING TRAFFIC MARKINGS.
(16) ALL TEMPORARY PAVEMENT MARKINGS ON THE CEMENT CONC. PAVEMENT SHALL BE TEMPORARY PAVEMENT MARKING TAPE.

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60

CURVE DATA

Ⓔ	STATION	OFFSET	Ⓕ	STATION	OFFSET
PC	A 809+42.3	12.4' RT	PC	A 810+55.4	58.0' LT
PT	A 810+20.9	60.9' LT	PT	A 811+32.0	18.6' RT
CC	A 809+45.1	62.5' LT	CC	A 811+29.0	54.5' LT
RAD	75'		RAD	73'	

PHASE 4

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn				
TIME	10:31:57 AM				
DATE	3/24/2010				
PLOTTED BY	mcreynm				
DESIGNED BY	M. LAMAY				
ENTERED BY	M. MCREYNOLDS				
CHECKED BY	J. KORESKI				
PROJ. ENGR.	S. SPAHR				
REGIONAL ADM.	L. ENG	REVISION	DATE	BY	

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State Department of Transportation

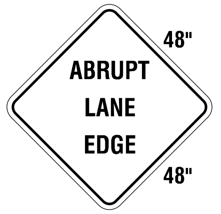
SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

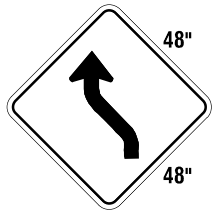
Plot 11
PLAN REF NO
TC7
SHEET
10
OF
SHEETS

W20-1

W21-1701

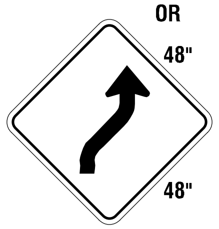


W21-801

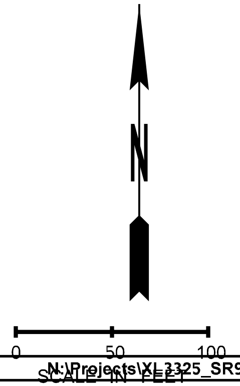


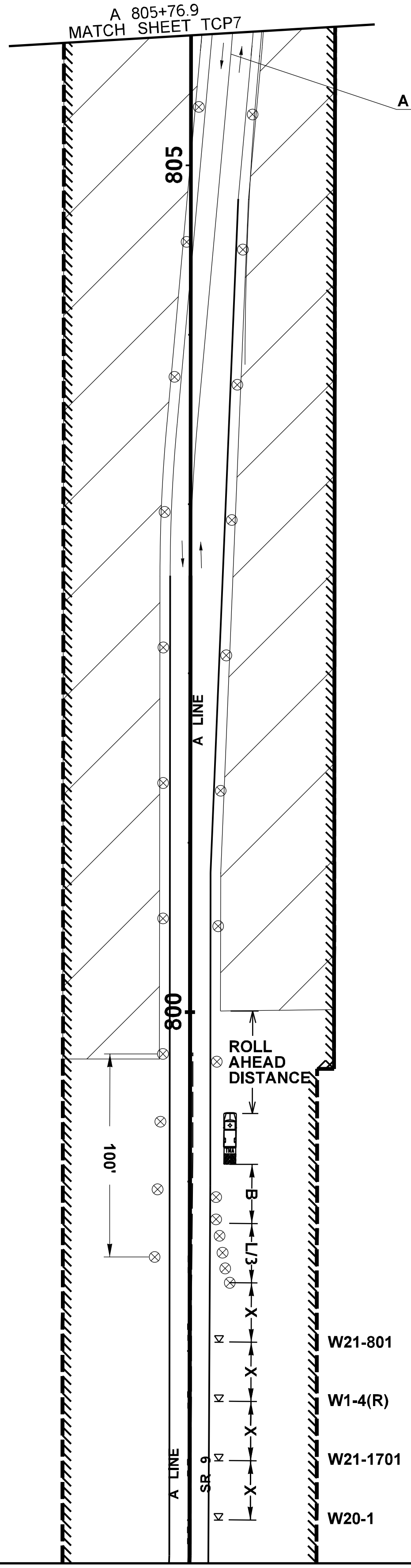
W1-4(L)

OR



W1-4(R)





NOTES:
(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.

(2) EXTEND CHANNELIZING DEVICE TAPER ACROSS SHOULDER.

(3) ALL DEVICE SPACING MAY BE ADJUSTED TO ACCOMODATE AT-GRADE INTERSECTIONS AND DRIVEWAYS.

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

(7) CHANNELIZING DEVICE SPACING FOR THE DOWNSTREAM TAPER OPTION SHALL BE 20' O.C.

(10) SEE TC7 FOR TEMPORARY HMA ROADWAY SECTIONS

(15) REMOVE ALL CONFLICTING TRAFFIC MARKINGS.

(16) ALL TEMPORARY PAVEMENT MARKINGS ON THE CEMENT CONC. PAVEMENT SHALL BE TEMPORARY PAVEMENT MARKING TAPE.

SIGN SPACING = X

	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

MINIMUM TAPER LENGTH = L (feet)

LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	-	-

BUFFER DATA

LONGITUDINAL BUFFER SPACE = B

SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730

PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE

TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS)	STATIONARY OPERATION (feet)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC.	MINIMUM WEIGHT 15,000 LBS. (MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS)	30

ROLL AHEAD STOPPING SIGHT DISTANCE ASSUMES DRY PAVEMENT

* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF A TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS, NO ROLL AHEAD DISTANCE IS SPECIFIED.

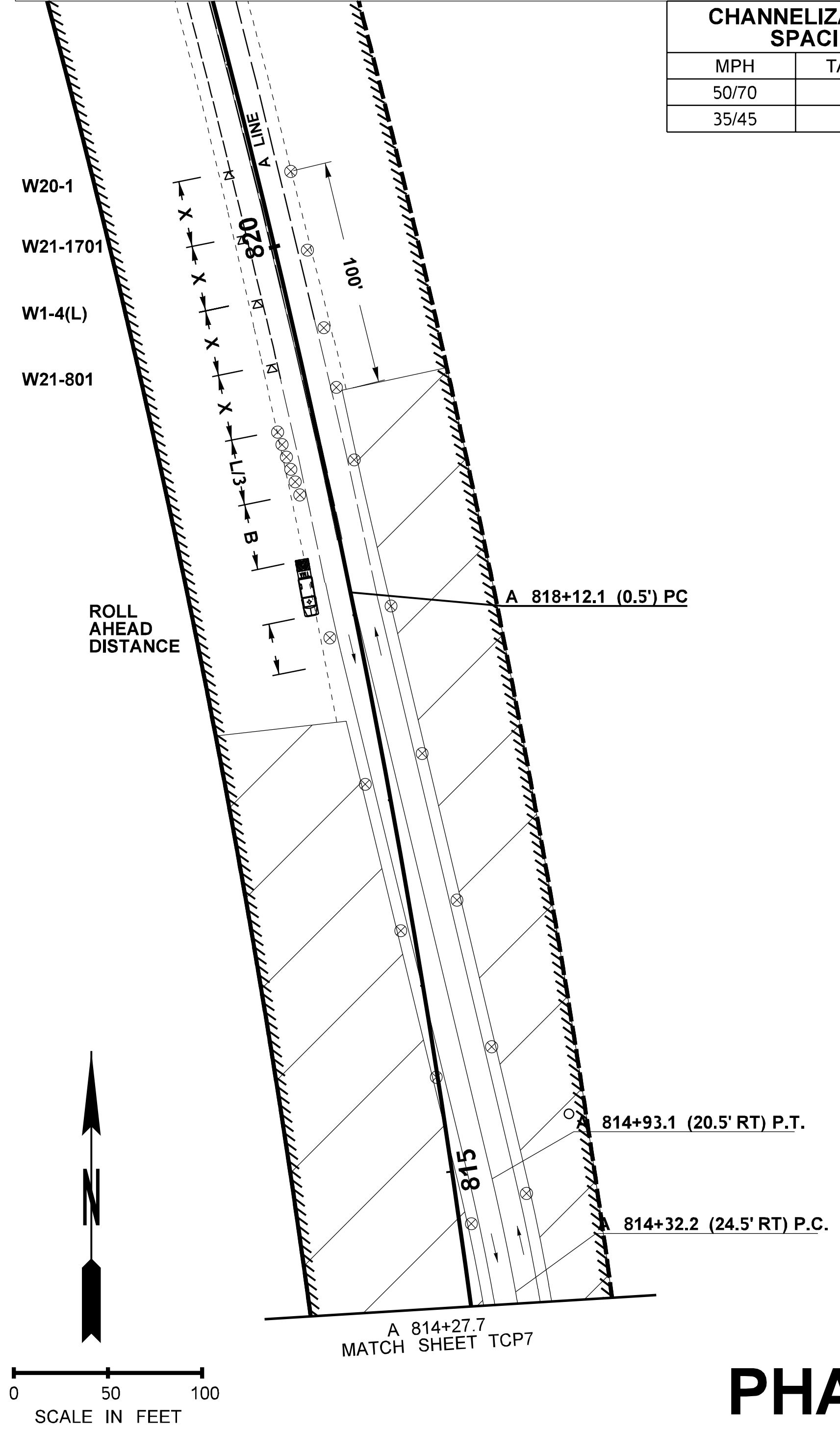
* * A SECOND ATTENUATOR TRUCK SHALL BE USED TO PROTECT THE OPERATOR FOR REMOVAL AND PLACING OF RPM'S.

LEGEND

┄┄┄┄	EXISTING CURB	⊠	CLASS B SIGN
— — —	EXISTING EDGE LINE	⊗	TRAFFIC DRUM
═ ═ ═	EXISTING CENTERLINE	⧸⧸⧸	TYPE III BARRICADE
━━━━	RIGHT OF WAY	▬	TRUCK MOUNTED ATTENUATOR
⧸⧸⧸⧸	LIMIT ACCESS	▩	TEMPORARY HMA
────	NEW PAVEMENT MARKINGS	▨	WORK ZONE
────	NEW CONCRETE PANEL EDGE		

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60



PHASE 4

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn			
TIME	10:31:58 AM			
DATE	3/24/2010			
PLOTTED BY	mcreynm			
DESIGNED BY	M. LAMAY			
ENTERED BY	M. MCREYNOLDS			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S. SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.		LOCATION NO.

DATE
P.E. STAMP BOX

DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

Plot 12
PLAN REF NO
TC8
SHEET
11
OF
SHEETS

LEGEND

- - - - -	EXISTING CURB
— — — —	EXISTING EDGE LINE
═ ═ ═ ═	EXISTING CENTERLINE
━━━━	RIGHT OF WAY
▨▨▨▨	LIMIT ACCESS
────	NEW PAVEMENT MARKINGS
────	NEW CONCRETE PANEL EDGE
⊲	CLASS B SIGN
⊗	TRAFFIC DRUM
⋈	TYPE III BARRICADE
▬	TRUCK MOUNTED ATTENUATOR
▨	TEMPORARY HMA
▱	WORK ZONE

SIGN SPACING = X

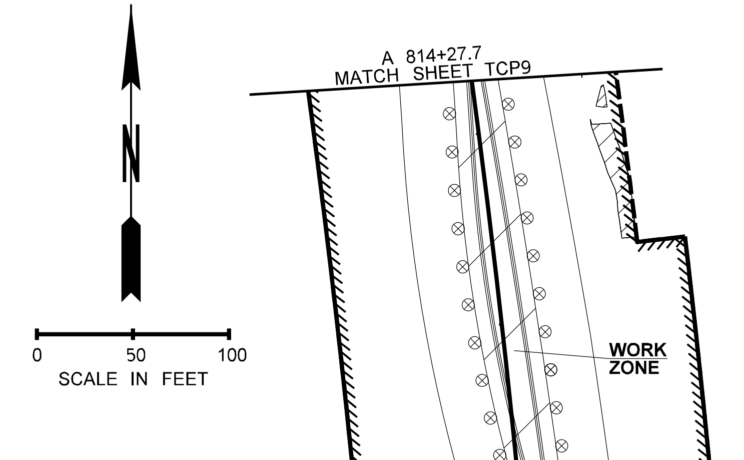
FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

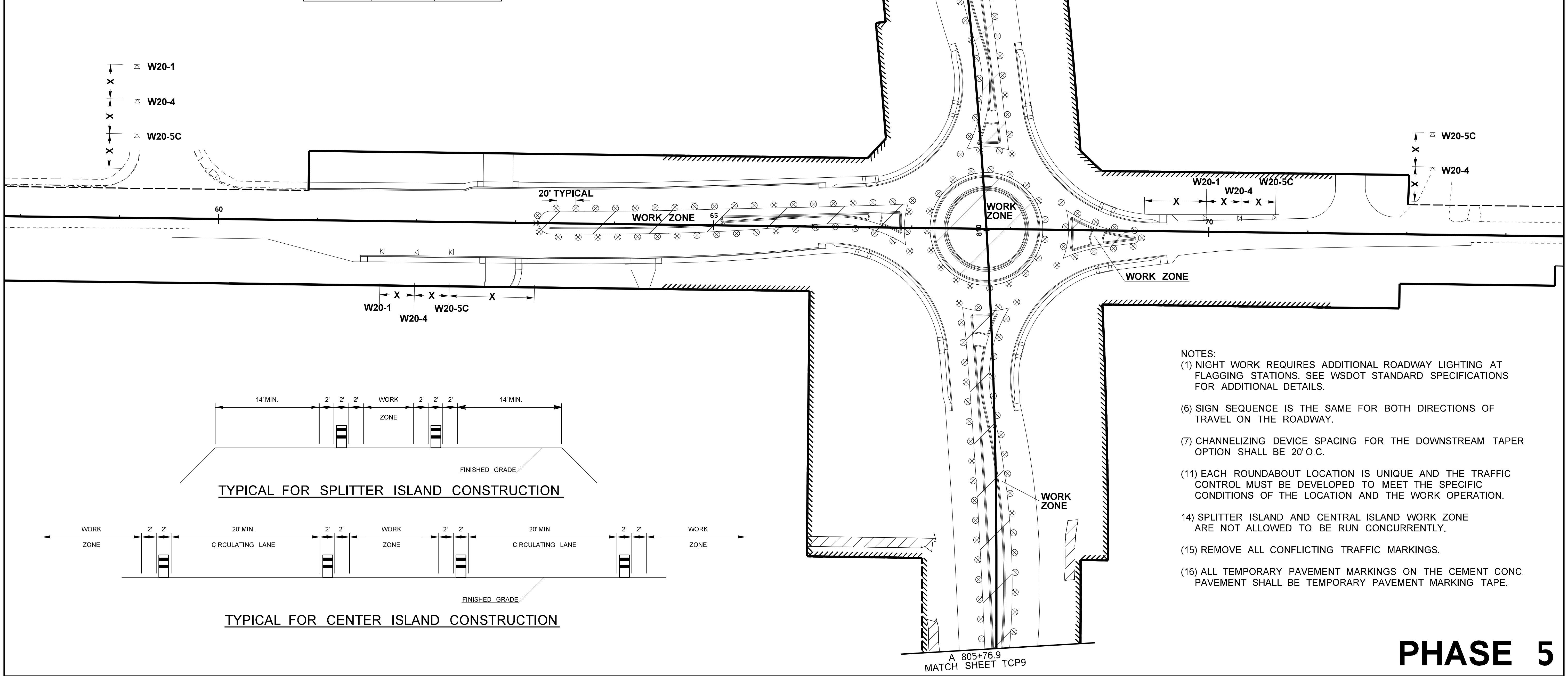
GENERAL NOTES

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

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	20	20
35/45	20	20





TYPICAL FOR SPLITTER ISLAND CONSTRUCTION

TYPICAL FOR CENTER ISLAND CONSTRUCTION

NOTES:
(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.

(6) SIGN SEQUENCE IS THE SAME FOR BOTH DIRECTIONS OF TRAVEL ON THE ROADWAY.

(7) CHANNELIZING DEVICE SPACING FOR THE DOWNSTREAM TAPER OPTION SHALL BE 20' O.C.

(11) EACH ROUNDABOUT LOCATION IS UNIQUE AND THE TRAFFIC CONTROL MUST BE DEVELOPED TO MEET THE SPECIFIC CONDITIONS OF THE LOCATION AND THE WORK OPERATION.

14) SPLITTER ISLAND AND CENTRAL ISLAND WORK ZONE ARE NOT ALLOWED TO BE RUN CONCURRENTLY.

(15) REMOVE ALL CONFLICTING TRAFFIC MARKINGS.

(16) ALL TEMPORARY PAVEMENT MARKINGS ON THE CEMENT CONC. PAVEMENT SHALL BE TEMPORARY PAVEMENT MARKING TAPE.

PHASE 5

FILE NAME N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn

TIME	10:31:58 AM			
DATE	3/24/2010			
PLOTTED BY	mcreynm			
DESIGNED BY	M. LAMAY			
ENTERED BY	M. MCREYNOLDS			
CHECKED BY	J. KORESKI			
PROJ. ENGR.	S. SPAHR			
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO.

LOCATION NO.

DATE
P.E. STAMP BOX

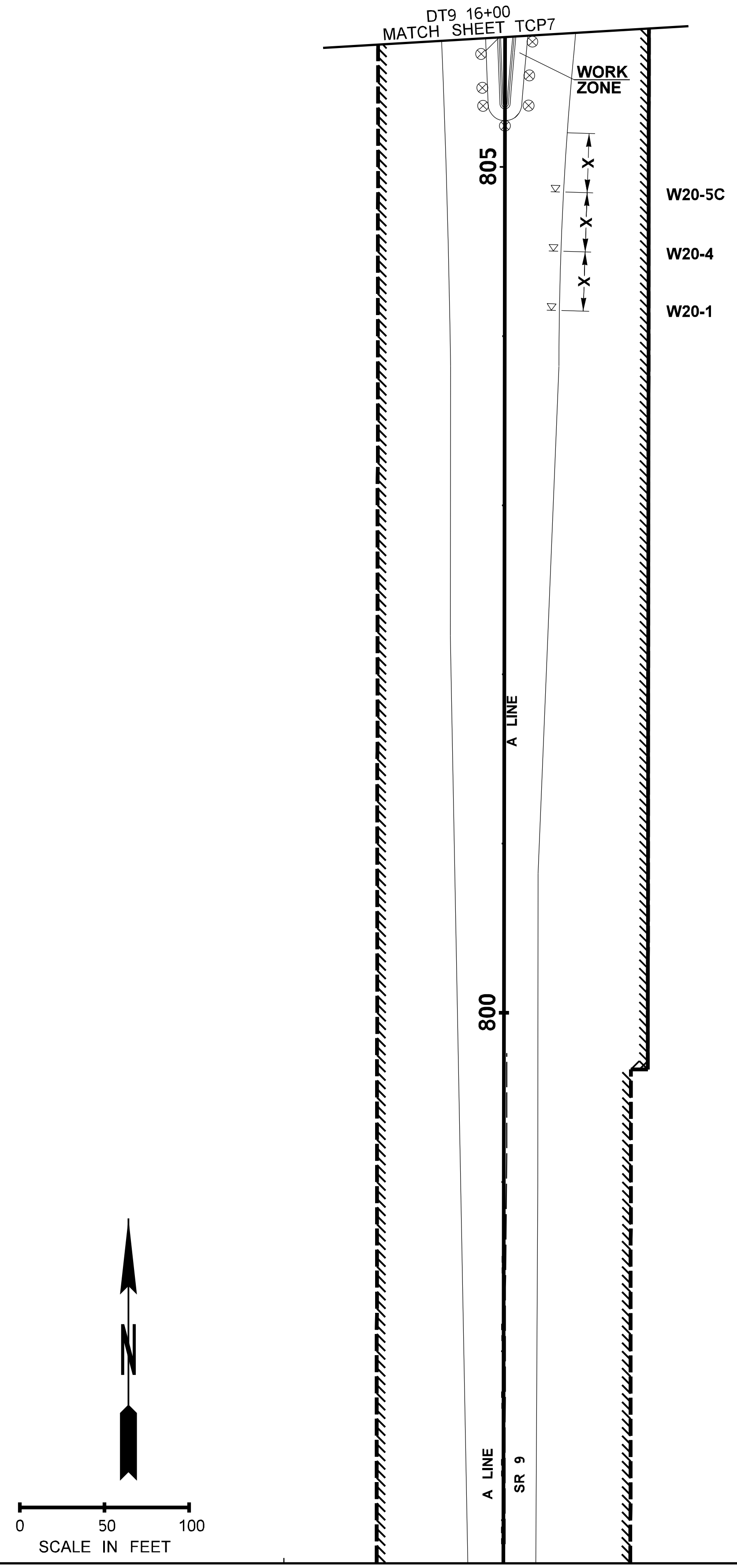
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

Plot 13
PLAN REF NO
TC9
SHEET
12
OF
SHEETS

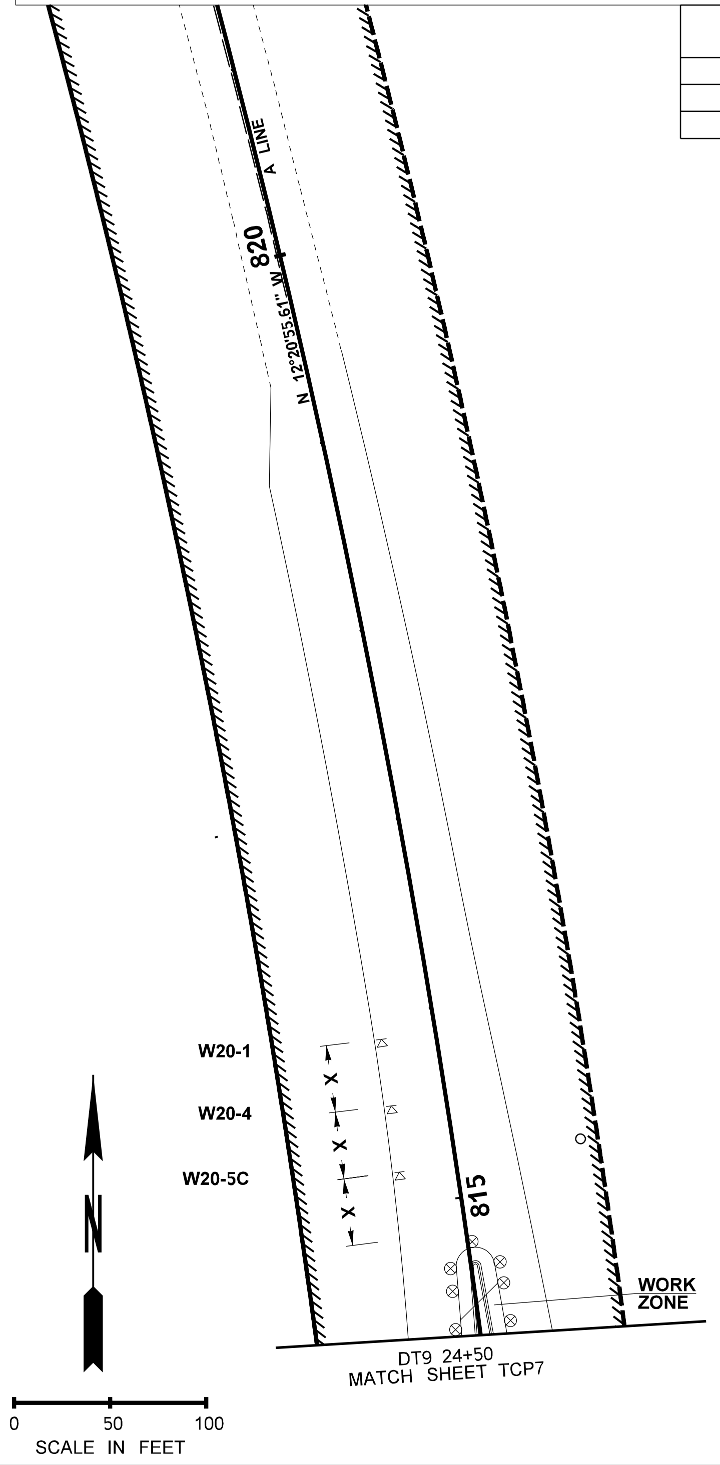


LEGEND

┈┈┈	EXISTING CURB	◂	CLASS B SIGN
— — —	EXISTING EDGE LINE	⊗	TRAFFIC DRUM
═ ═ ═	EXISTING CENTERLINE	⫽⫽⫽	TYPE III BARRICADE
━━━	RIGHT OF WAY	▬	TRUCK MOUNTED ATTENUATOR
⫽⫽⫽⫽	LIMIT ACCESS	▨	TEMPORARY HMA
───	NEW PAVEMENT MARKINGS		
───	NEW CONCRETE PANEL EDGE	◿	WORK ZONE

CHANNELIZATION DEVICE SPACING (feet)

MPH	TAPER	TANGENT
50/70	20	20
35/45	20	20



NOTES:

(1) NIGHT WORK REQUIRES ADDITIONAL ROADWAY LIGHTING AT FLAGGING STATIONS. SEE WSDOT STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.

(6) SIGN SEQUENCE IS THE SAME FOR BOTH DIRECTIONS OF TRAVEL ON THE ROADWAY.

(7) CHANNELIZING DEVICE SPACING FOR THE DOWNSTREAM TAPER OPTION SHALL BE 20' O.C.

(11) EACH ROUNDABOUT LOCATION IS UNIQUE AND THE TRAFFIC CONTROL MUST BE DEVELOPED TO MEET THE SPECIFIC CONDITIONS OF THE LOCATION AND THE WORK OPERATION.

14) SPLITTER ISLAND AND CENTRAL ISLAND WORK ZONE ARE NOT ALLOWED TO BE RUN CONCURRENTLY.

(15) REMOVE ALL CONFLICTING TRAFFIC MARKINGS.

(16) ALL TEMPORARY PAVEMENT MARKINGS ON THE CEMENT CONC. PAVEMENT SHALL BE TEMPORARY PAVEMENT MARKING TAPE.

SIGN SPACING = X

FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±

GENERAL NOTES

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

PHASE 5

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PHASING_PS.dgn
TIME	10:31:59 AM
DATE	3/24/2010
PLOTTED BY	mcreynm
DESIGNED BY	M. LAMAY
ENTERED BY	M. MCREYNOLDS
CHECKED BY	J. KORESKI
PROJ. ENGR.	S. SPAHR
REGIONAL ADM.	L. ENG

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	

JOB NUMBER

CONTRACT NO. | LOCATION NO.

DATE
P.E. STAMP BOX

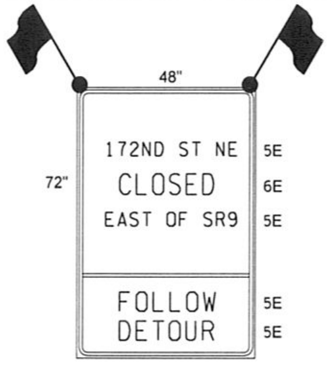
DATE
P.E. STAMP BOX

Washington State
Department of Transportation

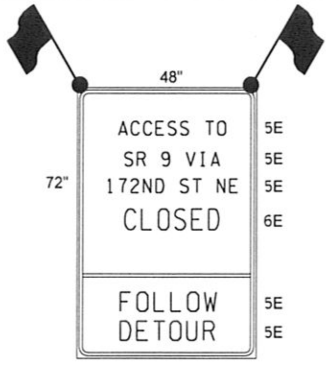
SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

TRAFFIC CONTROL PLANS

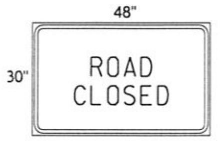
Plot 14
PLAN REF NO
TC10
SHEET
13
OF
SHEETS



BLACK ON ORANGE
SPECIAL
①

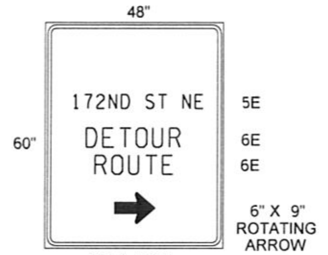


BLACK ON ORANGE
SPECIAL
⑥

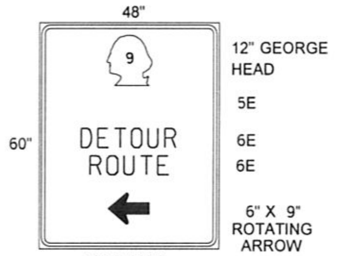


R11-2
BLACK ON WHITE
(11)

SEE NOTE 1



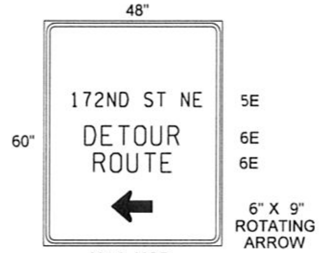
M4-9 MOD.
BLACK ON ORANGE
②



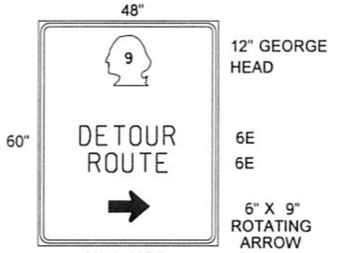
M4-9 MOD.
BLACK ON ORANGE
⑦

R3-1
(12)
SEE NOTE 1

R3-2
(13)
SEE NOTE 1



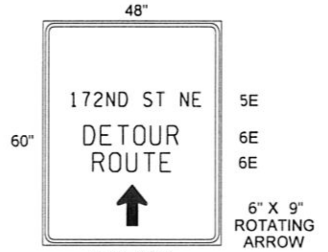
M4-9 MOD.
BLACK ON ORANGE
③



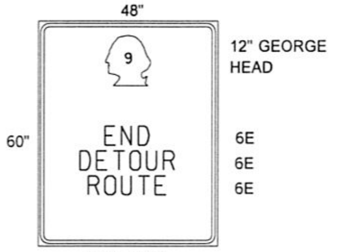
M4-9 MOD.
BLACK ON ORANGE
⑧

PCMS MESSAGE #1	
PHASE 1	PHASE 2
EAST 172ND WILL BE CLOSED	MM/DD TO MM/DD
1.5 SEC	1.5 SEC

FIELD LOCATE 1 MILE (+-) IN ADVANCE OF LANE CLOSURE 5 DAYS PRIOR TO START OF WORK



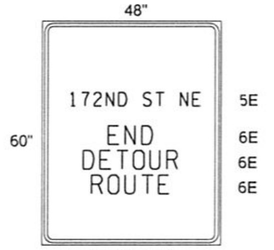
M4-9 MOD.
BLACK ON ORANGE
④



M4-9 MOD.
BLACK ON ORANGE
⑨

PCMS MESSAGE #2	
PHASE 1	PHASE 2
ROAD WORK AHEAD	EXPECT DELAYS
1.5 SEC	1.5 SEC

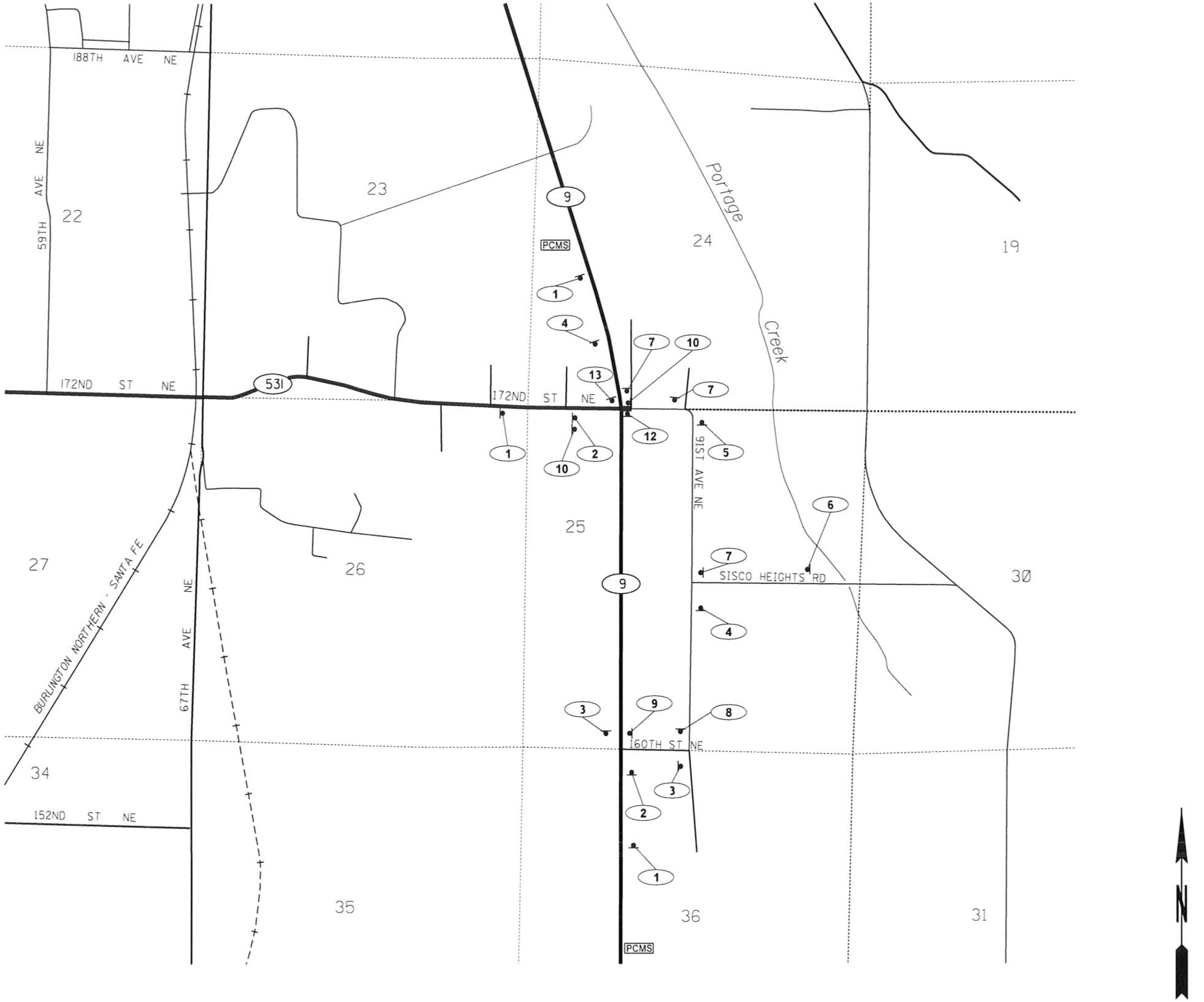
FIELD LOCATE 1 MILE (+-) IN ADVANCE OF LANE CLOSURE



M4-9 MOD.
BLACK ON ORANGE
⑤

R11-1501 MOD.
BLACK ON WHITE
(10)

PLACE 5 DAYS PRIOR TO CLOSURE



NOTE:

1. LOCATE SIGNS AS NECESSARY TO ACCOMODATE TRAFFIC CONTROL. SEE TC## - TC## FOR ANTICIPATED PHASING.

LEGEND

② CLASS A SIGN

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

0 1000 2000
SCALE IN FEET

FILE NAME	N:\Projects\XL3325_SR9_SR531_172nd_St_NE_Int\CAD\PS&ESheets\XL3325_PS_DETOUR&SIGNING.dgn
TIME	11:11:17 AM
DATE	3/11/2010
PLOTTED BY	mcreynm
DESIGNED BY	M. LAMAY
ENTERED BY	M. MCREYNOLDS
CHECKED BY	J. KORESKI
PROJ. ENGR.	S. SPAHR
REGIONAL ADM.	L. ENG

REVISION | DATE | BY

REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.	LOCATION NO.	

P.E. STAMP BOX DATE

P.E. STAMP BOX DATE

Washington State
Department of Transportation

SR 9
SR 531 / 172ND ST
INTERSECTION IMPROVEMENTS

DETOUR PLANS

Plot 2
PLAN REF NO
DTP1
SHEET
OF
SHEETS