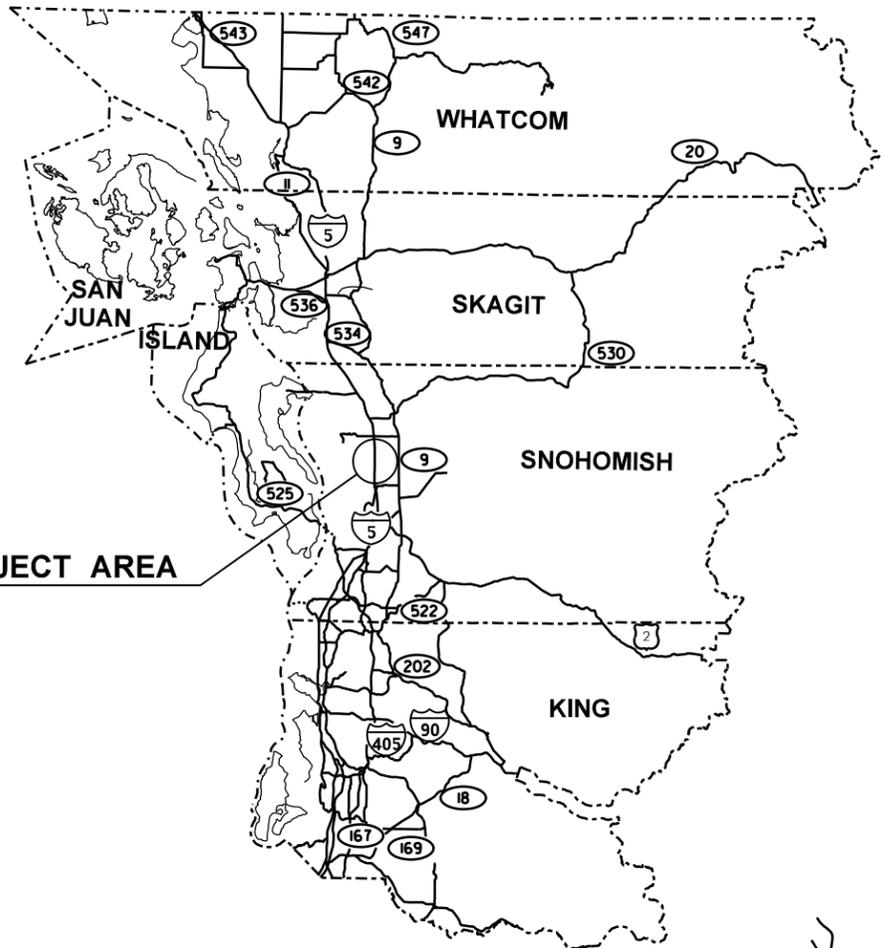
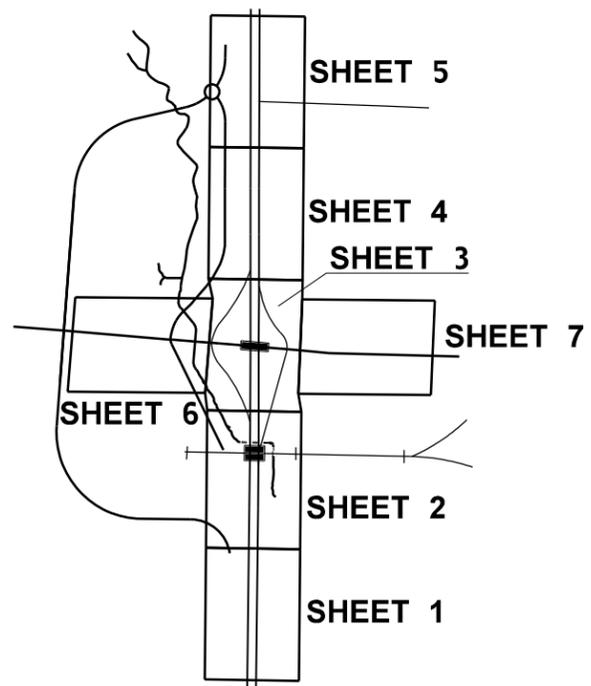


T. 30N. R. 5E. W.M.

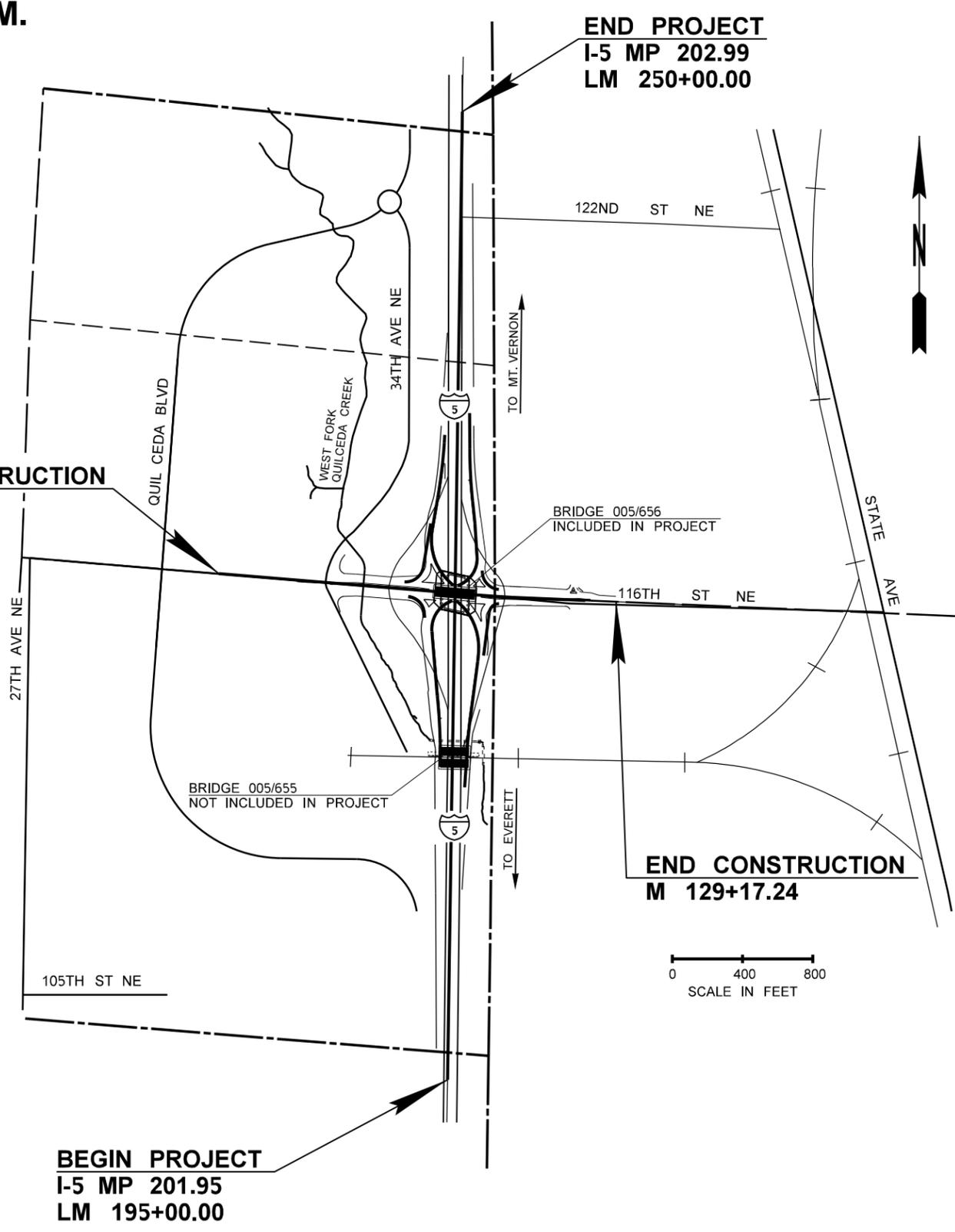
PROJECT AREA



WSDOT
NORTHWEST REGION



BEGIN CONSTRUCTION
M 106+49.00

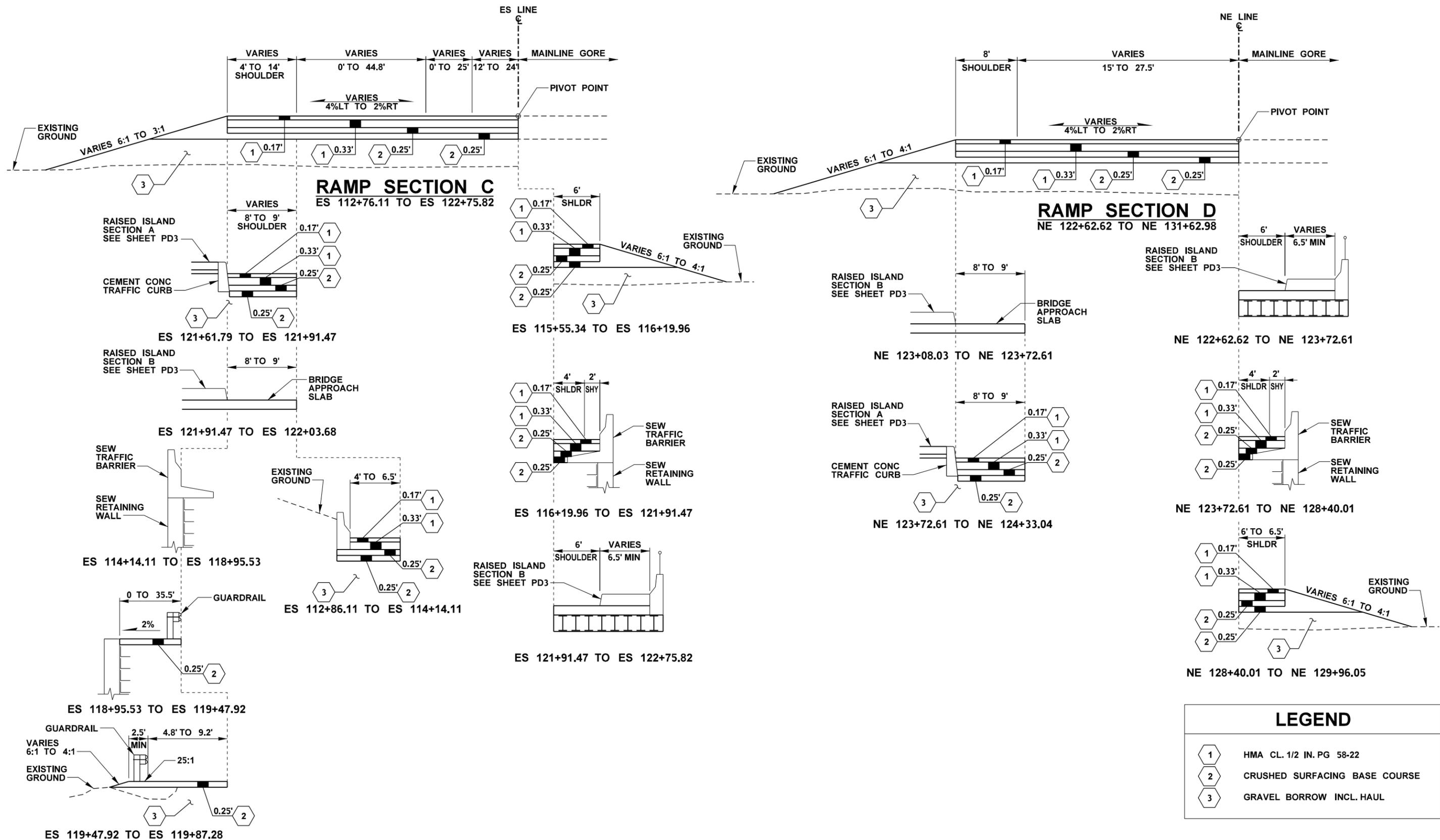


END PROJECT
I-5 MP 202.99
LM 250+00.00

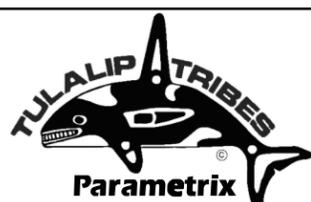
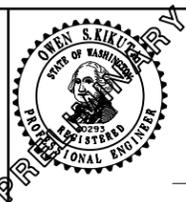
BEGIN PROJECT
I-5 MP 201.95
LM 195+00.00

END CONSTRUCTION
M 129+17.24

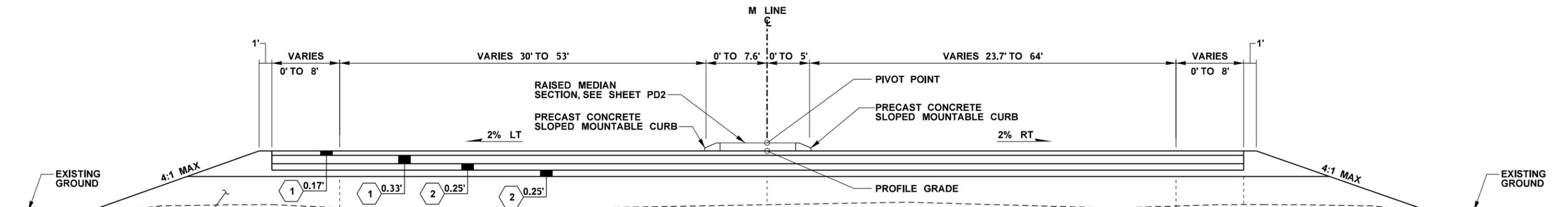
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TIME		9:23:17 AM		10		WASH				Parametrix		116TH ST NE		PLAN REF NO	
DATE		6/14/2012										INTERCHANGE IMPROVEMENTS		VM1	
PLOTTED BY		purgabut		JOB NUMBER								VICINITY MAP		SHEET	
DESIGNED BY		M. TSUN		CONTRACT NO.		LOCATION NO.								OF	
ENTERED BY		B. PURGANAN												SHEETS	
CHECKED BY		M. BURRUS													
PROJ. ENGR.															
REGIONAL ADM.				REVISION		DATE		BY		DATE					



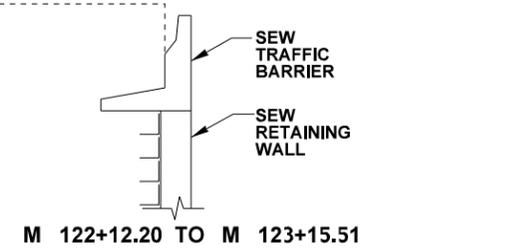
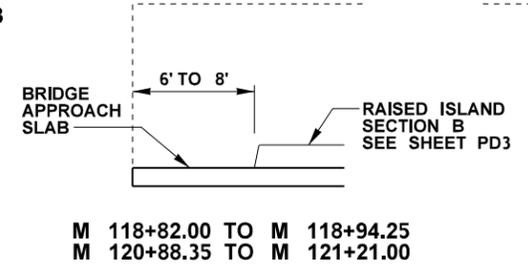
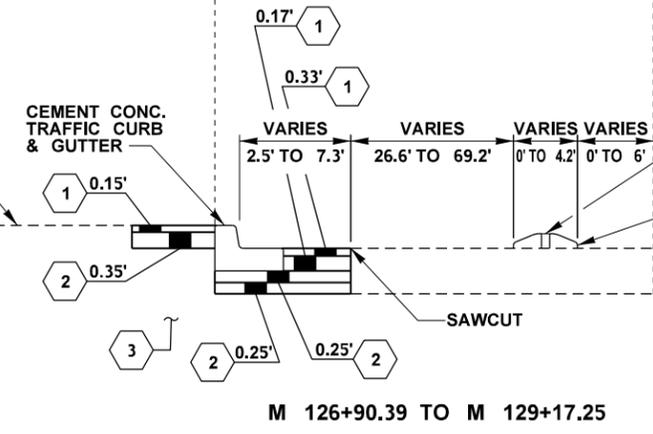
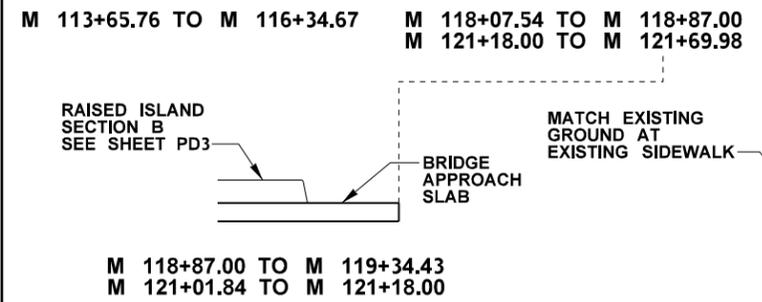
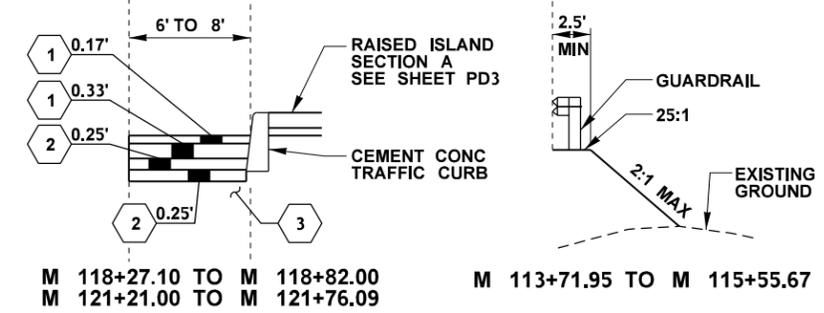
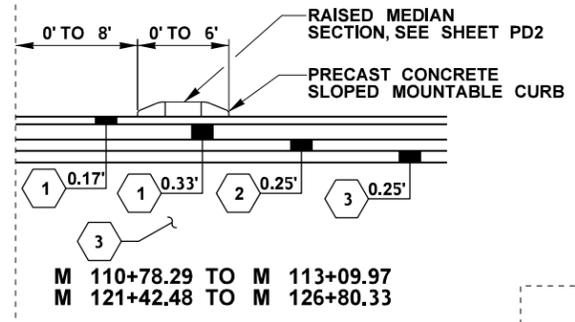
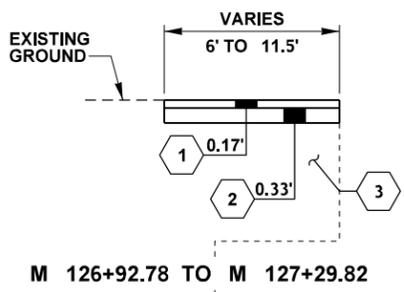
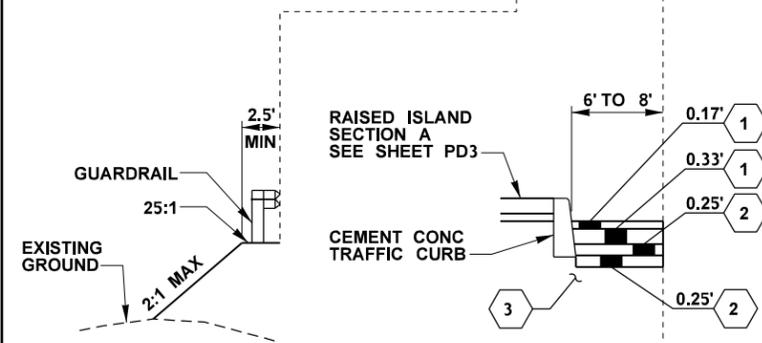
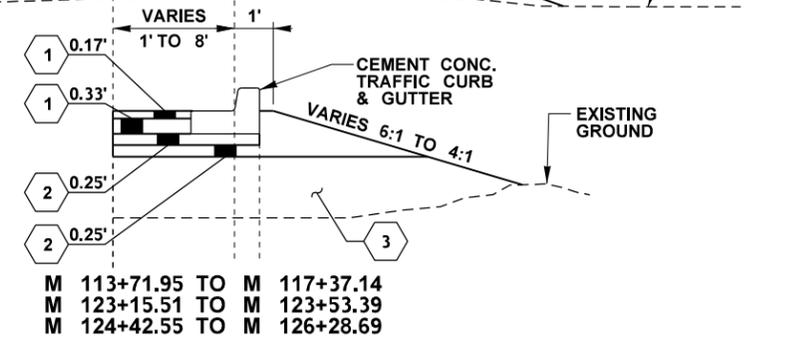
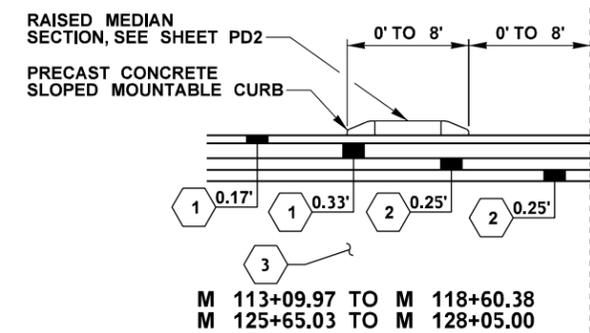
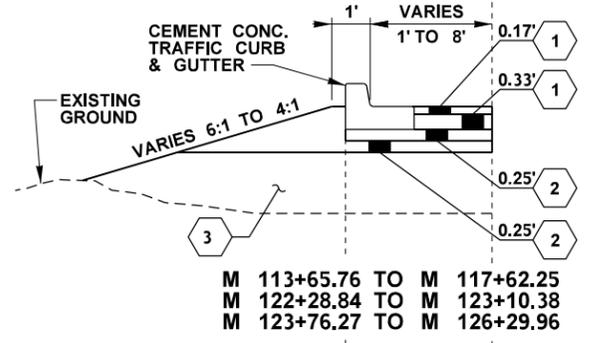
FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svcs\CADDIPS&ESheets\1598033_PS_RS.dgn			REGION NO.	10	STATE	WASH	FED.AID PROJ.NO.		Plot 3 PLAN REF NO RS3
TIME	9:24:28 AM			JOB NUMBER					SHEET	
DATE	6/14/2012			CONTRACT NO.				LOCATION NO.		OF
PLOTTED BY	purgabut									SHEETS
DESIGNED BY	M. TSUN / J. JUN									
ENTERED BY	B. PURGANAN									
CHECKED BY	O. KIKUTA									
PROJ. ENGR.										
REGIONAL ADM.		REVISION		DATE		BY				



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
ROADWAY SECTIONS



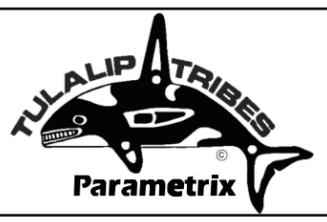
ROADWAY SECTION M
M 113+65.00 TO M 126+61.00



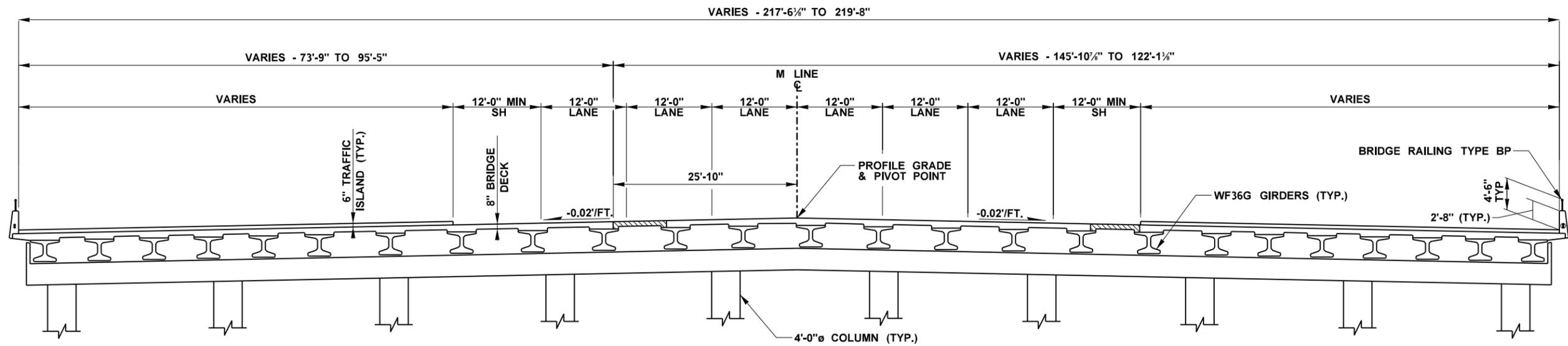
LEGEND	
1	HMA CL. 1/2 IN. PG 58-22
2	CRUSHED SURFACING BASE COURSE
3	GRAVEL BORROW INCL. HAUL

FILE NAME	\\paramatrix.com\pmx\BellProjects\Clients\1598-Tulalp Tribes\1598-033-116thPh\3199Svcs\CADD\PS&ESheets\BL1598033_PS_RS.dgn		
TIME	10:39:33 AM	REGION NO.	10
DATE	10/26/2012	STATE	WASH
PLOTTED BY	purgabut	JOB NUMBER	
DESIGNED BY	M. TSUN / J. JUN	CONTRACT NO.	
ENTERED BY	B. PURGANAN	LOCATION NO.	
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

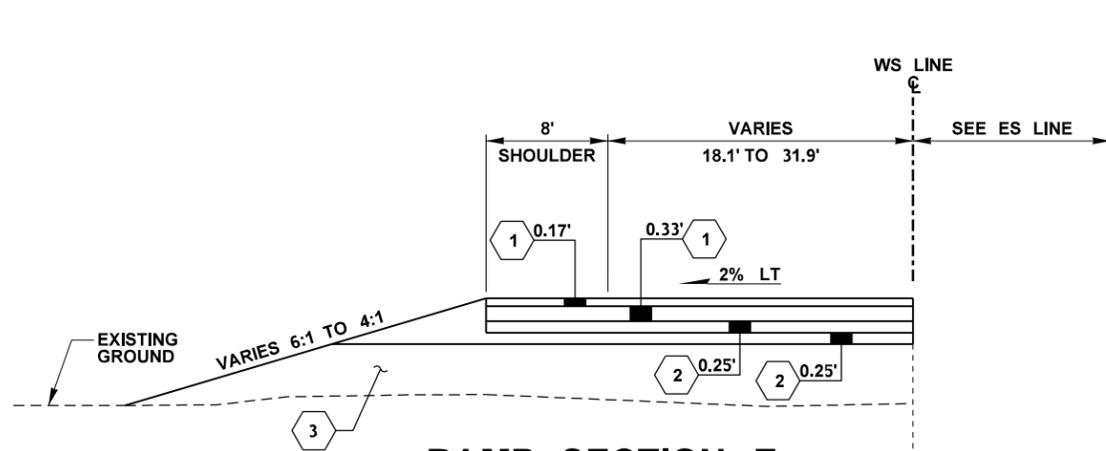
Professional Engineer Seal for Owen S. Kikuta, State of Washington, License No. 20293. Includes 'P.E. STAMP BOX' and 'DATE' fields.



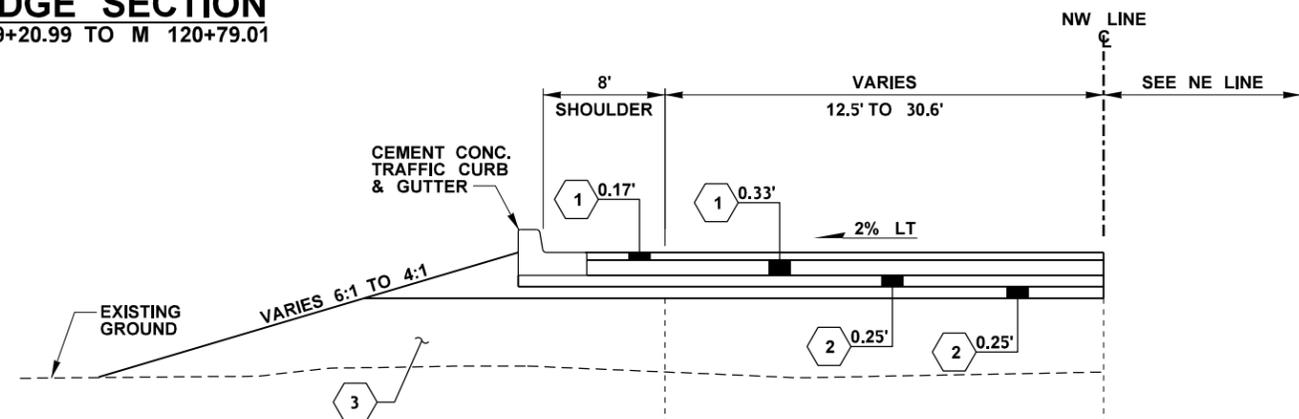
I-5	Plot 4
116TH ST NE	PLAN REF NO
INTERCHANGE IMPROVEMENTS	RS4
ROADWAY SECTIONS	SHEET
	OF
	SHEETS



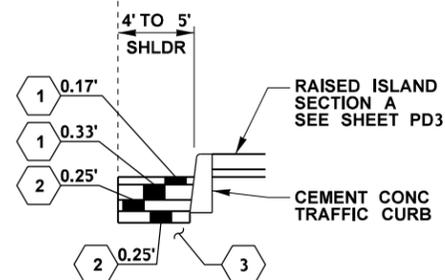
BRIDGE SECTION
M 119+20.99 TO M 120+79.01



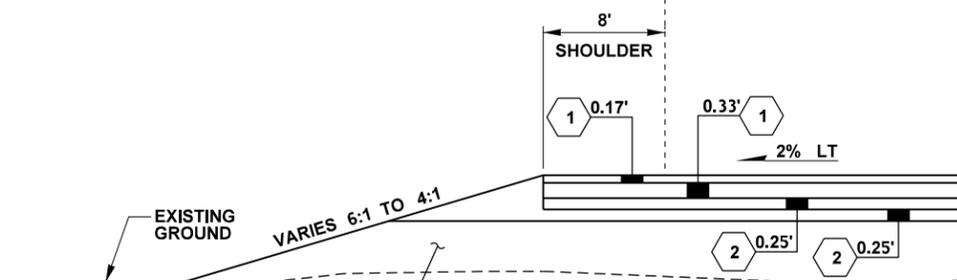
RAMP SECTION E
WS 121+51.64 TO WS 122+67.20



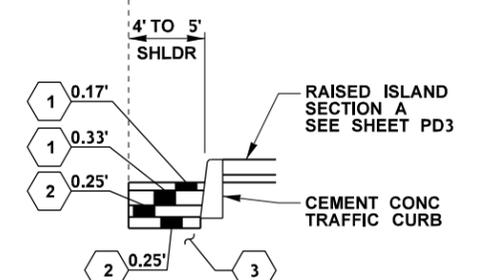
RAMP SECTION F
NW 122+59.35 TO NW 126+53.18



WS 121+65.89 TO WS 122+13.69



NW 124+27.07 TO NW 126+53.18



NW 123+04.11 TO NW 124+22.15

LEGEND

- 1 HMA CL. 1/2 IN. PG 58-22
- 2 CRUSHED SURFACING BASE COURSE
- 3 GRAVEL BORROW INCL. HAUL

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3\99Svcs\CADD\PS&ESheets\1598033_PS_RS.dgn		
TIME	9:24:53 AM	REGION NO.	10
DATE	6/14/2012	STATE	WASH
PLOTTED BY	purgabut	JOB NUMBER	
DESIGNED BY	M. TSUN / J. JUN	CONTRACT NO.	
ENTERED BY	B. PURGANAN	LOCATION NO.	
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.		REVISION	
		DATE	BY

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

ROADWAY SECTIONS

Plot 5
PLAN REF NO RS5
SHEET OF SHEETS

QUANTITY TABULATION - STAGING

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.		TEMPORARY CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATOR	TEMPORARY PAVEMENT MARKING (EDGE LINE)	TEMPORARY PAVEMENT MARKING (LANE LINE-BROKEN)	TEMPORARY PAVEMENT MARKING (LANE LINE-SOLID)	TEMPORARY PAVEMENT MARKING (PAINTED STOP LINE)	TEMPORARY PAVEMENT MARKING (DOUBLE YELLOW CENTERLINE)											SEE GENERAL NOTES	GENERAL NOTES:
CODE	LOCATION \ UNIT OF MEASURE >	L.F.	EACH	L.F.	L.F.	L.F.	L.F.	L.F.												
SU6-1	LM 217+14.77 (86.17' LT) TO LM 219+92.66 (199.00' RT)	304																		
SU6-2	LM 219+92.66 (199.00' RT)		1																	
SU6-3	LM 200+91 (267.88' LT) TO M2T 303+73.87 (156.03' RT)	91																		
	M2T 303+65.57 (137.82' RT) TO M2T 303+73.87 (156.03' RT)	20																		
	M2T 303+65.57 (137.82' RT) TO M2T 303+82.46 (38.45' RT)	101																		
	M2T 303+82.46 (38.45' RT) TO M2T 303+99.38 (27.00' RT)	21																		
	M2T 303+99.38 (27.00' RT) TO M2T 305+60.05 (27.00' RT)	158																		
	M2T 305+60.05 (27.00' RT) TO M2T 306+00.83 (23.00' RT)	41																		
	M2T 306+00.83 (23.00' RT) TO M2T 308+18.14 (23.00' RT)	218																		
	M2T 308+18.14 (23.00' RT) TO M2T 308+58.09 (27.00' RT)	40																		
	M2T 308+58.09 (27.00' RT) TO M2T 309+58.58 (27.00' RT)	50																		
	M2T 309+58.58 (27.00' RT) TO M2T 309+93.99 (28.02' RT)	35																		
	M2T 309+93.99 (28.02' RT) TO M2T 310+15.77 (28.87' RT)	21																		
	M2T 310+15.77 (28.87' RT) TO M2T 310+47.57 (53.36' RT)	41																		
	M2T 310+47.57 (53.36' RT) TO M2T 310+61.20 (133.12' RT)	81																		
	M2T 310+61.20 (133.12' RT) TO M2T 220+49.89 (294.72' RT)	132																		
	LM 220+49.89 (294.72' RT) TO LM 219+95.94 (263.40' RT)	62																		
SU6-4	M2T 300+89.41 (36.07' RT) TO M2T 302+67.22 (30.00' RT)			183																
	M2T 302+67.22 (30.00' RT) TO M2T 303+12.10 (57.95' RT)			56																
	M2T 303+12.10 (57.95' RT) TO M2T 303+29.49 (93.34' RT)			40																
SU6-5	M2T 300+87.65 (17.84' RT) TO M2T 301+64.34 (18.00' RT)					80														
	M2T 301+64.34 (18.00' RT) TO M2T 302+87.02 (18.00' RT)					123														
SU6-6	M2T 300+87.76 (5.84' RT) TO M2T 301+64.34 (6.00' RT)							78												
	M2T 301+64.34 (6.00' RT) TO M2T 302+88.02 (6.00' RT)							124												
	M2T 302+88.02 (6.00' RT) TO M2T 302+94.02 (0.00' RT)							10												
SU6-7	M2T 300+87.86 (5.75' LT) TO M2T 301+64.34 (6.00' LT)							76												
	M2T 301+64.34 (6.00' LT) TO M2T 302+88.02 (6.00' LT)							124												
	M2T 302+88.02 (6.00' LT) TO M2T 302+94.02 (0.00' LT)							10												
SU6-8	M2T 300+87.90 (17.75' LT) TOM2T 301+64.31 (18.00' LT)			74																
	M2T 301+64.31 (18.00' LT) TO M2T 302+88.02 (18.00' LT)			124																
SU6-9	M2T 300+87.95 (29.75' LT) TO M2T 301+64.28 (30.00' LT)			72																
	M2T 301+64.28 (30.00' LT) TO M2T 302+89.34 (30.00' LT)			125																
	M2T 302+89.34 (30.00' LT) TO M2T 303+43.32 (55.44' LT)			62																
SU6-10	M2T 302+87.02 (6.00' RT) TO M2T 302+87.02 (34.09' RT)						28													
SU6-11	M2T 303+54.42 (71.84' LT) TO M2T 303+85.20 (58.48' LT)						34													
SU6-12	M2T 303+87.69 (78.40' LT) TO M2T 304+29.97 (18.00' LT)			87																
	M2T 304+29.97 (18.00' LT) TO M2T 309+08.82 (18.00' LT)			480																
	M2T 309+08.82 (18.00' LT) TO M2T 309+88.61 (18.09' LT)			80																
	M2T 309+88.61 (18.09' LT) TO M2T 309+96.98 (82.16' LT)			72																
SHEET TOTAL		1,416	1	1,455	0	203	62	422												

DESIGNED BY	O. KIKUTA					REGION NO.	STATE	FED. AID PROJ. NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	QTSU-3
ENTERED BY	E. SOTO										SHEET	
CHECKED BY	O. KIKUTA										OF	
PROJ. ENGR.											SHEETS	
REGION ADM.	L. ENG									QUANTITY TABULATION - STAGING STAGE 2		
		DATE	DATE	REVISION	BY							

QUANTITY TABULATION - STAGING

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.		TEMPORARY CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATOR	TEMPORARY PAVEMENT MARKING (EDGE LINE)	TEMPORARY PAVEMENT MARKING (LANE LINE-BROKEN)	TEMPORARY PAVEMENT MARKING (LANE LINE-SOLID)	TEMPORARY PAVEMENT MARKING (PAINTED STOP LINE)	TEMPORARY PAVEMENT MARKING (DOUBLE YELLOW CENTERLINE)											SEE GENERAL NOTES	GENERAL NOTES:
CODE	LOCATION \ UNIT OF MEASURE >	L.F.	EACH	L.F.	L.F.	L.F.	L.F.	L.F.												
SU6-13	M2T 304+29.97 (6.00' LT) TO M2T 304+29.97 (18.00' LT)						12													
SU6-14	M2T 304+59.70 (6.00' LT) TO M2T 304+59.70 (6.00' RT)						12													
SU6-15	M2T 304+29.97 (6.00' LT) TO M2T 306+58.37 (6.00' LT)					230														
SU6-16	M2T 304+30.77 (27.00' LT) TO M2T 5+61.42 (27.00' LT)	134																		
	M2T 305+61.42 (27.00' LT) TO M2T 306+00.93 (23.00' LT)	40																		
	M2T 306+00.93 (23.00' LT) TO M2T 308+18.14 (23.00' LT)	217																		
	M2T 308+18.14 (23.00' LT) TO M2T 308+58.06 (27.00' LT)	40																		
	M2T 308+58.06 (27.00' LT) TO M2T 309+65.80 (27.00' LT)	106																		
SU6-17	M2T 304+30.77 (37.00' LT) TO M2T 5+61.92 (37.00' LT)	136																		
	M2T 305+61.92 (37.00' LT) TO M2T 306+01.37 (33.00' LT)	40																		
	M2T 306+01.37 (33.00' LT) TO M2T 308+17.64 (33.00' LT)	217																		
	M2T 308+17.64 (33.00' LT) TO M2T 308+57.57 (37.00' LT)	40																		
	M2T 308+57.57 (37.00' LT) TO M2T 309+80.19 (37.00' LT)	120																		
SU6-18	M2T 309+65.80 (27.00' LT)		1																	
SU6-19	M2T 307+32.39 (0.00' LT) TO M2T 307+55.50 (6.00' LT)							24												
	M2T 307+55.50(6.00' LT) TO M2T 309+51.85 (6.00' LT)							196												
SU6-20	M2T 303+55.34 (61.69' RT) TO M2T 303+56.09 (108.50' RT)			47																
	M2T 303+55.34 (61.69' RT) TO M2T 303+98.33 (18.00' RT)			68																
	M2T 303+98.33 (18.00' RT) TO M2T 309+58.58 (18.00' RT)			559																
	M2T 309+58.58 (18.00' RT) TO M2T 310+15.25 (19.84' RT)			56																
	M2T 310+15.25 (19.84' RT) TO M2T 310+51.89 (47.95' RT)			48																
	M2T 310+51.89 (47.95' RT) TO M2T 310+69.11 (149.69' RT)			100																
SU6-21	M2T 304+59.70 (6.00' RT) TO M2T 307+09.29 (6.00' RT)							248												
	M2T 307+09.29 (6.00' RT) TO M2T 307+32.39 (0.00' RT)							24												
SU6-22	M2T 308+05.87 (6.00' RT) TO M2T 309+58.58 (6.00' RT)			153																
	M2T 309+58.58 (6.00' RT) TO M2T 309+94.29 (7.02' RT)			36																
SU6-23	M2T 309+51.85 (6.00' LT) TO M2T 309+51.85 (6.00' RT)						12													
SU6-24	M2T 309+94.29 (7.02' RT) TO M2T 309+93.79 (19.01' RT)						12													
SU6-25	LM 219+95.94 (263.40' RT)		1																	
SU6-26	LM 218+70.77 (193.79' RT) TO LM 215+08.40 (90.00' RT)	380																		
	LM 215+08.40 (90.00' RT) TO LM 213+96.37 (78.90' RT)	79																		
SU6-27	M2T 310+68.44 33.80' RT) TO M2T 310+76.87 (81.55' RT)					49														
	M2T 310+76.87 (81.55' RT) TO M2T 310+88.76 (145.79' RT)					65														
SU6-28	M2T 310+45.84 (35.63' RT) TO M2T 310+66.44 (33.80' RT)						19													
SU6-29	M2T 310+66.44 (33.80' RT) TO M2T 310+97.15 (38.13' RT)						29													
SU6-30	M2T 310+93.11 (78.53' RT) TO M2T 311+08.29 (144.35' RT)			67																
	M2T 310+90.11 (67.61' RT) TO M2T 310+93.11 (78.53' RT)			11																
	M2T 310+90.11 (67.61' RT) TO M2T 311+28.43 (23.41' RT)			65																
	M2T 311+28.43 (23.41' RT) TO M2T 312+49.89 (18.64' RT)			121																
	M2T 312+49.89 (18.64' RT) TO M2T 313+58.98 (17.47' RT)			113																
SHEET TOTAL		1,549	2	1,444	0	344	96	492												

DESIGNED BY	O. KIKUTA					REGION NO.	STATE	FED. AID PROJ. NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	QTSU-4
ENTERED BY	E. SOTO										SHEET	
CHECKED BY	O. KIKUTA										OF	
PROJ. ENGR.											SHEETS	
REGION ADM.	L. ENG									QUANTITY TABULATION - STAGING STAGE 2		
		DATE	DATE	REVISION	BY							

QUANTITY TABULATION - STAGING

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.		TEMPORARY CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATOR	TEMPORARY PAVEMENT MARKING (EDGE LINE)	TEMPORARY PAVEMENT MARKING (LANE LINE-BROKEN)	TEMPORARY PAVEMENT MARKING (LANE LINE-SOLID)	TEMPORARY PAVEMENT MARKING (PAINTED STOP LINE)	TEMPORARY PAVEMENT MARKING (DOUBLE YELLOW CENTERLINE)											SEE GENERAL NOTES	GENERAL NOTES:
CODE	LOCATION \ UNIT OF MEASURE >	L.F.	EACH	L.F.	L.F.	L.F.	L.F.	L.F.												
SU10-1	M3T 800+00 (6.00' RT) TO M3T STA 801+98.29 (13.98' RT)							199												
SU10-2	M3T 800+00 (18.00' RT) TO M3T STA 801+97.81 (25.97' RT)					198														
SU10-3	M3T 800+57.79 (33.74' RT) TO M3T 800+83.70 (33.39' RT)			26																
	M3T 800+83.70 (33.39' RT) TO M3T 801+87.37 (37.56' RT)			104																
	M3T 801+87.27 (37.56' RT) TO M3T 802+62.96 (104.33' RT)			109																
SU10-4	M3T 801+98.29 (13.98' RT) TO M3T 802+07.86 (0.00' RT)							20												
SU10-5	M3T 801+98.29 (13.98' RT) TO M3T 801+97.81 (25.97' RT)						12													
SU10-6	M3T 799+47.65 (57.43' LT) TO M3T 800+09.39 (30.00' LT)			68																
	M3T 800+09.39 (30.00' LT) TO M3T 801+68.00 (30.00' LT)			159																
	M3T 801+68.00 (30.00' LT) TO M3T 802+57.31 (94.88' LT)																			
SU10-7	M3T 800+98.84 (18.00' LT) TO M3T 801+99.40 (18.00' LT)					199														
SU10-8	M3T 799+99.61 (6.00' LT) TO M3T 801+99.10 (6.00' LT)							199												
SU10-9	M3T 801+99.10 (6.00' LT) TO M3T 802+07.86 (0.00' LT)							11												
SU10-10	M3T 802+82.69 (64.70' LT) TO M3T 802+88.04 (96.18' LT)			32																
	M3T 802+82.69 (64.70' LT) TO M3T 803+22.12 (18.00' LT)			70																
	M3T 803+22.12 (18.00' LT) TO M3T 808+70.86 (18.00' LT)			549																
	M3T 808+70.86 (18.00' LT) M3T (808+98.94 (138.62' LT)			136																
SU10-11	M3T 803+22.12 (23.00' LT) TO M3T 807+48.76 (23.00' LT)	428																		
	M3T (807+48.76 (23.00' LT) TO M3T 808+43.21 (23.90' LT)	95																		
SU10-12	M3T 803+28.55 (18.00' LT) TO M3T 803+28.07 (6.00' LT)						12													
SU10-13	M3T 803+28.07 (6.00' LT) TO M3T 805+67.87 (6.00' LT)					240														
SU10-14	M3T 803+55.24 (6.00' LT) TO M3T 803+54.83 (6.00' RT)						12													
SU10-15	M3T 806+45.70 (0.00' LT) TO M3T 806+69.45 (6.00' LT)							25												
	M3T 806+69.45 (6.00' LT) TO M3T 808+73.38 (6.00' LT)							204												
SU10-16	M3T 808+43.21 (23.90' LT)		1																	
SU10-17	M3T 808+73.38 (6.00' LT) TO M3T 808+73.76 (6.00' RT)						12													
SU10-18	M3T 809+63.69 (61.65' LT) TO M3T 810+12.21 (18.50' LT)			71																
	M3T 810+12.21 (18.50' LT) TO M3T 811+25.41 (18.00' LT)			115																
	M3T 811+25.41 (18.00' LT) TO M3T 812+21.35 (18.00' LT)			95																
	M3T 812+21.35 (18.00' LT) TO 812+32.25 (32.25' LT)			49																
SU10-19	M3T 809+72.20 (6.00' LT) TO M3T 809+73.30 (6.00' RT)						12													
SU10-20	M3T 809+72.20 (6.00' LT) TO M3T 811+26.82 (6.00' RT)							155												
	M3T 811+26.82 (6.00' LT) TO M3T 812+01.05 (6.00' RT)							75												
SU10-21	M3T 810+12.26 (21.50' LT) TO M3T 811+25.41 (21.00' LT)	115																		
	M3T 811+25.41 (21.00' LT) TO M3T 812+20.91 (21.00' LT)	94																		
	M3T 812+20.91 (21.00' LT) TO 812+67.75 (35.12' LT)	49																		
SHEET TOTAL		781	1	1,583	0	637	60	888												

DESIGNED BY	O. KIKUTA					REGION NO.	STATE	FED. AID PROJ. NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	QTSU-7
ENTERED BY	E. SOTO										SHEET	
CHECKED BY	O. KIKUTA										OF	
PROJ. ENGR.											SHEETS	
REGION ADM.	L. ENG									QUANTITY TABULATION - STAGING STAGE 3A		
		DATE	DATE	REVISION	BY							

QUANTITY TABULATION - STAGING

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.		TEMPORARY CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATOR	TEMPORARY PAVEMENT MARKING (EDGE LINE)	TEMPORARY PAVEMENT MARKING (LANE LINE-BROKEN)	TEMPORARY PAVEMENT MARKING (LANE LINE-SOLID)	TEMPORARY PAVEMENT MARKING (PAINTED STOP LINE)	TEMPORARY PAVEMENT MARKING (DOUBLE YELLOW CENTERLINE)											GENERAL NOTES:
CODE	LOCATION \ UNIT OF MEASURE >	L.F.	EACH	L.F.	L.F.	L.F.	L.F.	L.F.											SEE GENERAL NOTES
SU11-1	LM 195+37.86 (55.24' LT) TO LM 205+59.63 (75.67 LT)			1022															
	A4T 800+00 (12.00' LT) TO A4T 814+87.05 (12.00' LT)			775															
	A4T 814+87.05 (12.00' LT) TO A4T 815+42.19 (29.45' LT)			63															
	A4T 815+42.19 (29.45' LT) TO A4T 815+85.79 (76.95' LT)			72															
	A4T 815+85.79 (76.95' LT) TO B 117+18.75 (41.00' RT)			131															
SU11-2	LM 201+76.11 (56.00' LT) TO LM 215+68.76 (56.00' LT)			1393															
SU11-3	LM 205+59.63 (63.67' LT) TO LM 213+34.38 (63.67' LT)			775															
	A4T 807+74.75 (0.00' RT) TO A4T 817+25.68 (0.00' RT)			951															
SU11-4	LM 206+03.60 (56.09' RT) TO LM 211+61.33 (83.98' RT)			558															
	B4T 903+20.31 (12.00' RT) TO B4T 909+09.23 (12.00' RT)			588															
SU11-5	B4T 900+00 0.00' RT) TO B4T 914+52.31 (0.00' RT)			1452															
SU11-6	LM 208+42.02 (56.00' RT) TO LM 213+72.50 56.00' RT)			531															
SU12-1	A4T 809+06.78 (15.00' LT) TO A4T 813+27.55 (15.00' LT)	421																	
	A4T 813+27.55 (15.00' LT) TO A4T 815+06.46 (33.76' LT)	183																	
	A4T 815+06.46 (33.76' LT) TO A4T 815+38.53 (57.25' LT)	47																	
SU12-2	A4T 815+47.02 (15.00' LT) TO A4T 815+92.19 (64.37' LT)			75															
	A4T 815+92.19 (64.37' LT) TO M 117+20.32 (29.00' RT)			147															
SU12-3	A4T 815+61.07 (46.15' LT) TO A4T 815+69.05 (34.73' LT)						15												
SU12-4	A4T 815+47.02 (15.00' LT) TO A4T 816+99.42 (15.00' LT)			165															
SU12-5	M 118+78.41 (5.00' RT) TO M 118+78.41 (29.00' RT)						24												
SU12-6	M 116+24.59 (53.00' LT) TO M 117+62.71 (70.27' LT)			139															
	M 117+62.71 (70.27' LT) TO C4T 1001+75.57 (43.70' LT)			123															
	C4T 1001+75.57 (43.70' LT) TO C4T 1002+66.60 (31.05' LT)			102															
	C4T 1002+66.60 (31.05' LT) TO C4T 1003+32.95 (31.51' LT)			73															
SU12-7	M 117+06.73 (41.00' LT) TO M 119+54.06 (41.00' LT)			248															
SU12-45	M 117+73.81 (17.00' LT) TO M 119+36.09 (2.07' RT)							164											
SU12-8	M 117+62.25 (41.00' LT) TO C4T 1001+53.66 (36.65' LT)			146															
	C4T 1001+53.66 (36.65' LT) TO C4T 1002+72.01 (17.58' LT)			127															
SU12-9	C4T 1000+19.59 (15.00' LT) TO C4T 1003+35.15 (15.00' LT)			330															
SU12-10	C4T 1000+00.00 (0.00' LT) TO C4T 1012+17.52 (0.00' LT)			1218															
SU12-11	M 118+27.77 (30.00' LT) TO B4T 913+41.30 (16.00' RT)				291														
SU12-12	M 119+36.09 (2.07' RT) TO M 120+32.30 (41.00' LT)				107														
SU12-13	M 119+79.09 (41.00' LT) TO M 120+19.28 (17.00' LT)				47														
SU12-14	M 119+79.09 (41.00' LT) TO M 120+32.30 (41.00' LT)			53															
SU12-15	M 120+19.28 (17.00' LT) TO M 120+44.37 (5.73' LT)					28													
SU12-16	M 120+44.37 (5.73' LT) TO M 120+82.58 (6.78' RT)				40														
SU12-17	D4T 1100+00 (0.00' RT) TO M4T 1116+08.35 (0.00' RT)			1608															
SU12-18	D4T 1100+16.69 (15.00' RT) TO M4T 1101+42.81 (15.00' RT)			135															
SU12-19	M 122+59.41 (53.00' LT) TO D4T 1101+42.09 (31.66' RT)			169															
	D4T 1101+42.09 (31.66' RT) TO D4T 1102+27.83 (12.00' RT)			96															
	D4T 1102+27.83 (12.00' RT) TO D4T 1116+08.35 (12.00' RT)			1378															
	SHEET TOTAL	651	0	14,643	485	28	39	164											

DESIGNED BY	O. KIKUTA	DATE	DATE	REVISION	BY	REGION NO.	STATE	FED. AID PROJ. NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	QTSU-9
ENTERED BY	E. SOTO					10	WASH					SHEET
CHECKED BY	O. KIKUTA					JOB NUMBER						OF
PROJ. ENGR.						CONTRACT NO.						SHEETS
REGION ADM.	L. ENG										QUANTITY TABULATION - STAGING STAGE 4	

QUANTITY TABULATION - STAGING

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.		TEMPORARY CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATOR	TEMPORARY PAVEMENT MARKING (EDGE LINE)	TEMPORARY PAVEMENT MARKING (LANE LINE-BROKEN)	TEMPORARY PAVEMENT MARKING (LANE LINE-SOLID)	TEMPORARY PAVEMENT MARKING (PAINTED STOP LINE)	TEMPORARY PAVEMENT MARKING (DOUBLE YELLOW CENTERLINE)											GENERAL NOTES:
CODE	LOCATION \ UNIT OF MEASURE >	L.F.	EACH	L.F.	L.F.	L.F.	L.F.	L.F.											SEE GENERAL NOTES
SU12-20	D4T 1101+22.43 (27.47' RT) TO D4T 1101+30.15 (39.51' RT)						15												
SU12-21	D4T 1101+42.81 (15.00' RT) TO M 122+58.91 (41.00' LT)			195															
SU12-22	M 121+19.50 (17.00' LT) TO M 121+19.59 (41.00' LT)						24												
SU12-23	M 120+55.18 (41.00' LT) TO M 124+43.89 (41.00' LT)			387															
	M 124+43.89 (41.00' LT) TO M 125+00.00 (39.58' LT)			57															
SU12-24	M 120+19.28 (17.00' LT) TO M 124+43.59 (17.00' LT)					424													
	M 124+43.59 (17.00' LT) TO M 125+75.23 (13.71' LT)			132															
SU12-25	M 121+19.50 (29.00' LT) TO M 124+43.89 (29.00' LT)				324														
	M 124+43.89 (29.00' LT) TO M 129+16.94 (17.17' LT)				474														
SU12-26	M 120+44.37 (5.73' LT) TO M 123+27.47 (5.00' LT)			283															
	M 123+27.47 (5.00' LT) TO M 124+44.60 (5.00' LT)			117															
	M 124+44.60 (5.00' LT) TO M 125+75.23 (13.71' LT)			131															
SU12-27	M 122+59.41 (53.00' LT) TO M 124+44.04 (53.00' LT)			184															
	M 124+44.04 (53.00' LT) TO M 125+62.57 (50.00' LT)			119															
	M 125+62.57 (50.00' LT) TO M 125+94.37 (41.60' LT)			33															
	M 125+94.37 (41.60' LT) TO M 126+56.62 (82.42' LT)			84															
SU12-26	M 120+82.58 (6.78' RT) TO M 123+27.45 (7.00' RT)							245											
	M 123+27.45 (7.00' LT) TO M 124+45.00 (7.00' LT)							118											
	M 124+45.00 (7.00' RT) TO M 127+06.47 (10.43' LT)							226											
	M 127+06.47 (10.43' LT) TO M 128+05.03 (7.96' LT)							99											
SU12-27	M 120+82.58 (6.78' RT) TO M 121+62.70 (17.11' RT)							81											
	M 121+62.70 (17.11' RT) TO M 122+14.61 (17.72' RT)							52											
	M 122+14.61 (17.72' RT) TO M 126+73.36 (6.10' RT)							459											
SU12-28	M 122+19.81 (29.82' RT) TO M 126+73.77 (17.10' RT)				455														
SU12-29	B4T 912+60.79 (69.03' RT) TO M122+35.80 (50.94' RT)			107															
	M 122+35.80 (50.94' RT) TO M 123+14.80 (38.09' RT)			81															
	M 123+14.80 (38.09' RT) TO M 126+23.43 (30.36' RT)			309															
	M 126+23.43 (30.36' RT) TO M 126+57.76 (55.00' LT)			45															
SU12-30	M 121+19.46 (5.00' LT) M 121+19.41 (7.00' RT)						12												
SU12-31	M 119+87.16 (27.49' RT) TO M 120+83.51 (7.00' RT)					100													
SU12-32	M 120+47.92 (29.00' RT) TO M 122+19.81 (29.82' RT)																		
SU12-33	B4T 911+48.11 (32.10' RT) TO B4T 912+8222 (64.00' RT)			156															
	B4T 912+82.22 (64.00' RT) TO M122+19.81 (29.82' RT)			110															
SU12-34	B4T 904+31.78 (21.35' RT)		1																
SU12-35	B4T 904+31.78 (21.35' RT) TO B4T 905+41.62 (15.00' RT)	109																	
	B4T 905+41.62 (15.00' RT) TO 909+00.00 (15.00' RT)	178																	
	B4T 909+00.00 (15.00' RT) TO B4T 910+53.75 (53.00' RT)	158																	
	B4T 910+53.75 (53.00' RT) TO B4T 910+80.76 (53.00' RT)	30																	
SHEET TOTAL		475	1	2,530	1,253	524	51	1,280											

DESIGNED BY	O. KIKUTA					REGION NO.	STATE	FED. AID PROJ. NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	QTSU-10
ENTERED BY	E. SOTO										SHEET	
CHECKED BY	O. KIKUTA										OF	
PROJ. ENGR.											SHEETS	
REGION ADM.	L. ENG									QUANTITY TABULATION - STAGING STAGE 4		
		DATE	DATE	REVISION	BY							

QUANTITY TABULATION - STAGING

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.		TEMPORARY CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATOR	TEMPORARY PAVEMENT MARKING (EDGE LINE)	TEMPORARY PAVEMENT MARKING (LANE LINE-BROKEN)	TEMPORARY PAVEMENT MARKING (LANE LINE-SOLID)	TEMPORARY PAVEMENT MARKING (PAINTED STOP LINE)	TEMPORARY PAVEMENT MARKING (DOUBLE YELLOW CENTERLINE)											GENERAL NOTES:
CODE	LOCATION \ UNIT OF MEASURE >	L.F.	EACH	L.F.	L.F.	L.F.	L.F.	L.F.										SEE GENERAL NOTES	
SU12-36	B4T 909+09.23 (12.00' RT) TO B4T 910+38.48 (44.00' RT)			133															
	B4T 910+38.48 (44.00' RT) TO B4T 910+92.50 (44.00' RT)			56															
	B4T 910+92.50 (44.00' RT) TO B4T 911+48.80 (45.70' RT)			63															
	B4T 911+48.80 (45.70' RT) TO B4T 912+60.80 (69.00' RT)			144															
SU12-37	B4T 910+88.00 (16.00' RT) TO B4T 913+41.30 (16.00' RT)					265													
SU12-38	B4T 910+87.66 (32.00' RT) TO B4T 914+02.92 (32.00' RT)			346															
SU13-1	M 109+80.56 (30.00' LT) TO M 110+44.83 (30.00' LT)				65														
SU13-2	M 109+86.12 (6.00' LT) TO M 110+45.00 (6.00' LT)					59													
	M 110+45.00 (6.00' LT) TO M 111+94.65 (10.28' LT)					150													
SU13-3	M 109+80.51 (18.00' LT) TO M 110+44.83 (18.00' LT)				65														
	M 110+44.83 (18.00' LT) TO M 114+29.83 (29.00' LT)				385														
	M 114+29.83 (29.00' LT) TO M 118+27.77 (29.00' LT)				298														
SU13-4	M 113+39.60 (154.52' LT) TO M 113+25.45 (91.45' RT)			66															
	M 113+25.45 (91.45' RT) TO M 113+71.47 (51.34' LT)			67															
	M 113+71.47 (51.34' LT) TO M 114+29.50 (53.00' LT)			58															
	M 114+29.50 (53.00' LT) TO M 116+24.60 (53.00' LT)			195															
SU13-5	M 114+29.37 (41.00' LT) TO M 117+12.25 (41.00' LT)				283														
SU13-6	M 110+32.06 (7.36' RT) TO M 112+45.00 (1.29' RT)							213											
	M 112+45.00 (1.29' RT) TO M 114+36.69 (17.00' LT)							193											
	M 114+36.69 (17.00' LT) TO M 117+73.81 (17.00' LT)							337											
	M 117+73.81 (17.00' LT) TO M 119+36.09 (2.07' RT)							164											
SU13-7	M 109+39.83 (18.00' RT) TO M 114+42.00 (29.00' RT)				502														
	M 114+42.00 (29.00' RT) TO M 114+42.00 (29.00' RT)				84														
SU13-8	M 110+20.92 (77.55' RT) TO M 110+76.13 (33.00' RT)			77															
	M 110+76.13 (33.00' RT) TO M 112+16.21 (36.00' RT)			140															
	M 112+16.21 (36.00' RT) TO M 112+80.09 (74.53' RT)			78															
	M 112+80.09 (74.53' RT) TO M 113+23.15 (151.81' RT)			89															
SU13-9	M 110+31.96 (8.00' RT) TO M 111+62.00 (10.86' RT)							130											
	M 111+62.00 (10.86' RT) TO M 112+50.00 (5.00' RT)							88											
	M 112+50.00 (5.00' RT) TO M 119+01.14 (5.00' RT)							651											
	M 119+01.14 (5.00' RT) TO M 119+36.09 (2.07' RT)							35											
SU13-10	M 113+52.50 (162.12' RT) TO M 113+35.29 (126.00' RT)			40															
	M 113+35.29 (126.00' RT) TO M 113+70.33 (62.00' RT)			85															
	M 113+70.33 (62.00' RT) TO M 115+38.23 (41.00' RT)			169															
	M 115+38.23 (41.00' RT) TO M 117+18.75 (41.00' RT)			180															
SU13-11	M 114+30.00 (17.00' RT) TO M 118+78.41 (17.00' RT)					448													
SU13-12	M 115+25.67 (29.00' RT) TO M 119+55.58 (29.00' RT)					430													
SU13-13	M 126+48.35 (35.89' LT) TO M 127+50.39 (33.34' LT)			102															
SU13-14	M 126+48.48.35 (35.89' LT) TO M 126+70.74 (74.53' LT)			46															
	M 126+70.74 (74.53' LT) TO M 126+72.17 (82.61' LT)			8															
SHEET TOTAL		0	0	2,142	1,682	1,352	0	1,811											

DESIGNED BY	O. KIKUTA					REGION NO.	STATE	FED. AID PROJ. NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	QTSU-11
ENTERED BY	E. SOTO										SHEET	
CHECKED BY	O. KIKUTA										OF	
PROJ. ENGR.											SHEETS	
REGION ADM.	L. ENG									QUANTITY TABULATION - STAGING STAGE 4		
		DATE	DATE	REVISION	BY							

QUANTITY TABULATION - STAGING

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.		TEMPORARY CONCRETE BARRIER	TEMPORARY IMPACT ATTENUATOR	TEMPORARY PAVEMENT MARKING (EDGE LINE)	TEMPORARY PAVEMENT MARKING (LANE LINE-BROKEN)	TEMPORARY PAVEMENT MARKING (LANE LINE-SOLID)	TEMPORARY PAVEMENT MARKING (PAINTED STOP LINE)	TEMPORARY PAVEMENT MARKING (DOUBLE YELLOW CENTERLINE)										SEE GENERAL NOTES	GENERAL NOTES:
CODE	LOCATION \ UNIT OF MEASURE >	L.F.	EACH	L.F.	L.F.	L.F.	L.F.	L.F.											
SU13-15	M 126+72.17 (82.61' LT) TO M 126+76.62 (68.05' LT)			15															
	M 126+76.62 (68.05' LT) TO M 126+94.55 (41.42' LT)			33															
	M 126+94.55 (41.42' LT) TO M 127+17.98 (34.15' LT)			25															
SU13-16	M 126+73.36 (6.10' RT) TO M 126+92.62 (4.17' LT)							22											
	M 126+92.62 (4.17' LT) TO M 128+05.00 (5.00' LT)							112											
SU13-17	C4T 1003+33.00 (31.50' LT) TO C4T 1003+68.67 (31.50' LT)			36															
	C4T 1003+68.67 (31.50' LT) TO C4T 1004+46.28 (12.00' LT)			80															
	C4T 1004+46.28 (12.00' LT) TO C4T 1012+17.52 (12.00' LT)			770															
SU13-18	C4T 1003+61 (38.57' LT) TO C4T 1004+55 (15.00' LT)	97																	
	C4T 1004+55 (15.00' LT) TO C4T1006+68.34 (15.00' LT)	130																	
	C4T 1006+68.38 (15.00' LT) TO C4T 1007+54.80' (23.00' LT)	86																	
SU13-19	C4T 1007+54.80' (23.00' LT)		1																
SU13-20	C4T 1007+31.00 (24.45' RT) TO C4T 1012+17.52 (0.00' RT)			488															
SU13-21	D4T 1103+35 (26.00' RT) TO D4T 1103+89.00 (15.00' RT)	341																	
	D4T 1103+89.00 (15.00' RT) D4T 1107+30.47 (15.00' RT)	55																	
SU13-22	D4T 1106+38.20 (20.83' LT) TO D4T 1116+08.35 (0.00' RT)			971															
SU13-23	D4T 1116+08.35 (12.00' RT) TO LM 244+75.60 (56.06' RT)			597															
SHEET TOTAL		709	1	3,015	0	0	0	134											
PHASE TOTAL		1,835	2	22,330	3,420	1,904	90	3,389											
PROJECT TOTAL		23,156	23	42,455	7,276	5,636	356	6,705											

DESIGNED BY	O. KIKUTA					REGION NO.	STATE	FED. AID PROJ. NO.						
ENTERED BY	E. SOTO					10	WASH				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		QTSU-12	
CHECKED BY	O. KIKUTA					JOB NUMBER					SHEET			
PROJ. ENGR.						CONTRACT NO.			OF					
REGION ADM.	L. ENG								SHEETS					
		DATE	DATE	REVISION	BY				QUANTITY TABULATION - STAGING STAGE 4					

GENERAL NOTES:

SEC 8 & SEC 9, T. 30N. R. 5E. W.M.

- 1 CONSTRUCT NORTH THIRD OF BRIDGE.
- 2 CONSTRUCT PORTION OF RAMP EMBANKMENT AND WALLS.
- 3 CONSTRUCT EMBANKMENT AND PAVING.
- 4 CONSTRUCT TEMPORARY EMBANKMENT AND PAVING.
- 5 PRIOR TO OPENING STAGE 2 CHANNELIZATION ON 116TH STREET, CONSTRUCT PAVEMENT PROFILE TRANSITION BETWEEN EXISTING AND NEW WESTBOUND LANES. REMOVE EXISTING SIDEWALK. PEDESTRIAN SHUTTLE VAN TO MAINTAIN PEDESTRIAN ACCESS ON BOTH SIDES OF INTERCHANGE
- 6 CONSTRUCTION ACCESS. SEE TESC PLANS.
- 7 SELECTION OF TEMPORARY IMPACT ATTENUATOR SYSTEM SHALL FOLLOW WSDOT DM 1620.01(2) (AUGUST 2011). THE FOLLOWING SYSTEMS SHALL BE EXCLUDED FROM USE ON THIS PROJECT: REACT 350, REACT 350 WIDE, INERTIAL BARRIER, ADIEM 350.
- 8 NO FLAGGERS OR SPOTTERS ON I-5 AND RAMPS.

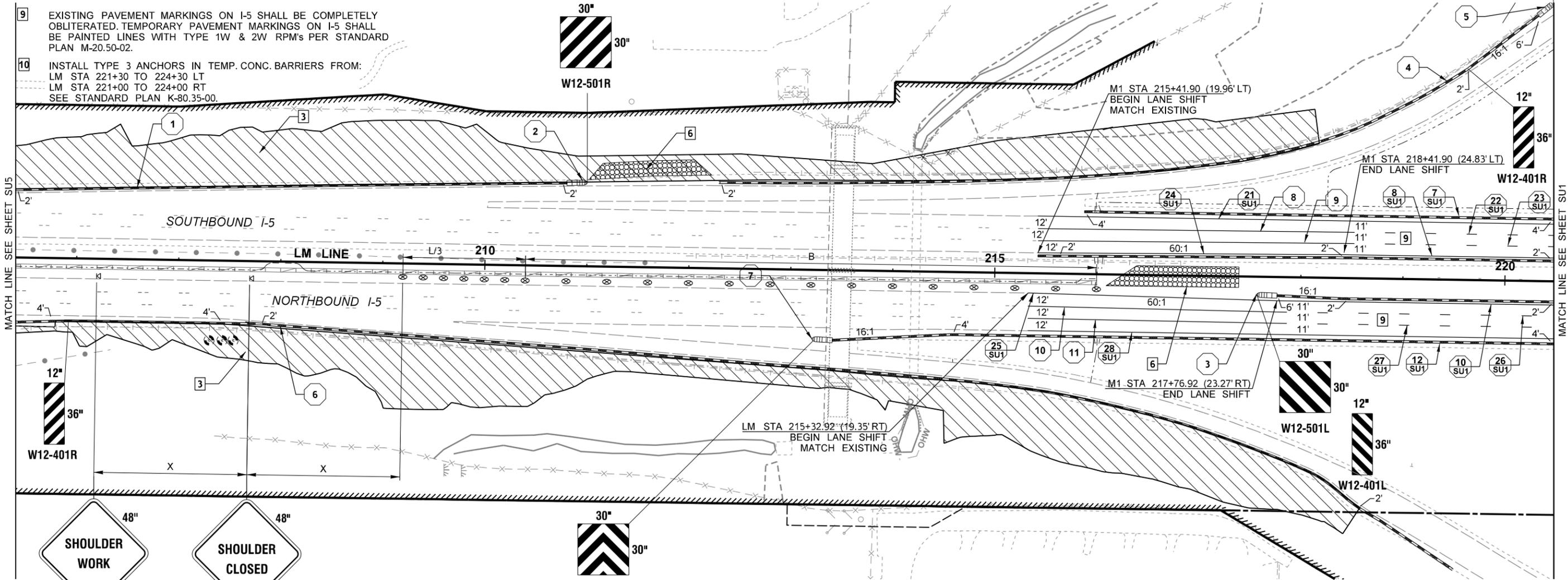
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE = R										
TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED 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 SECOND ATTENUATOR TRUCK SHALL BE USED TO PROTECT THE OPERATOR FOR REMOVAL AND PLACING OF RPM'S.										

LEGEND	
	TEMPORARY CONCRETE BARRIER
	WORK AREA
	TEMPORARY RETAINING WALL
	CHANNELIZING DEVICES
	TEMPORARY IMPACT ATTENUATOR (SEE NOTE 7)
	CONSTRUCTION SIGN CLASS A
	QUANTITY TAB NOTE

MINIMUM TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)

- (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.



STAGE 1

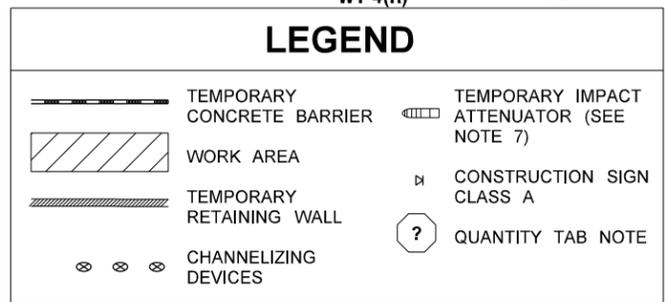
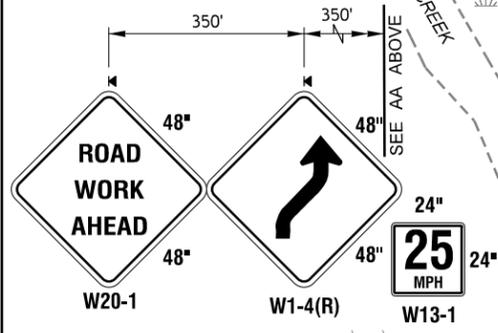
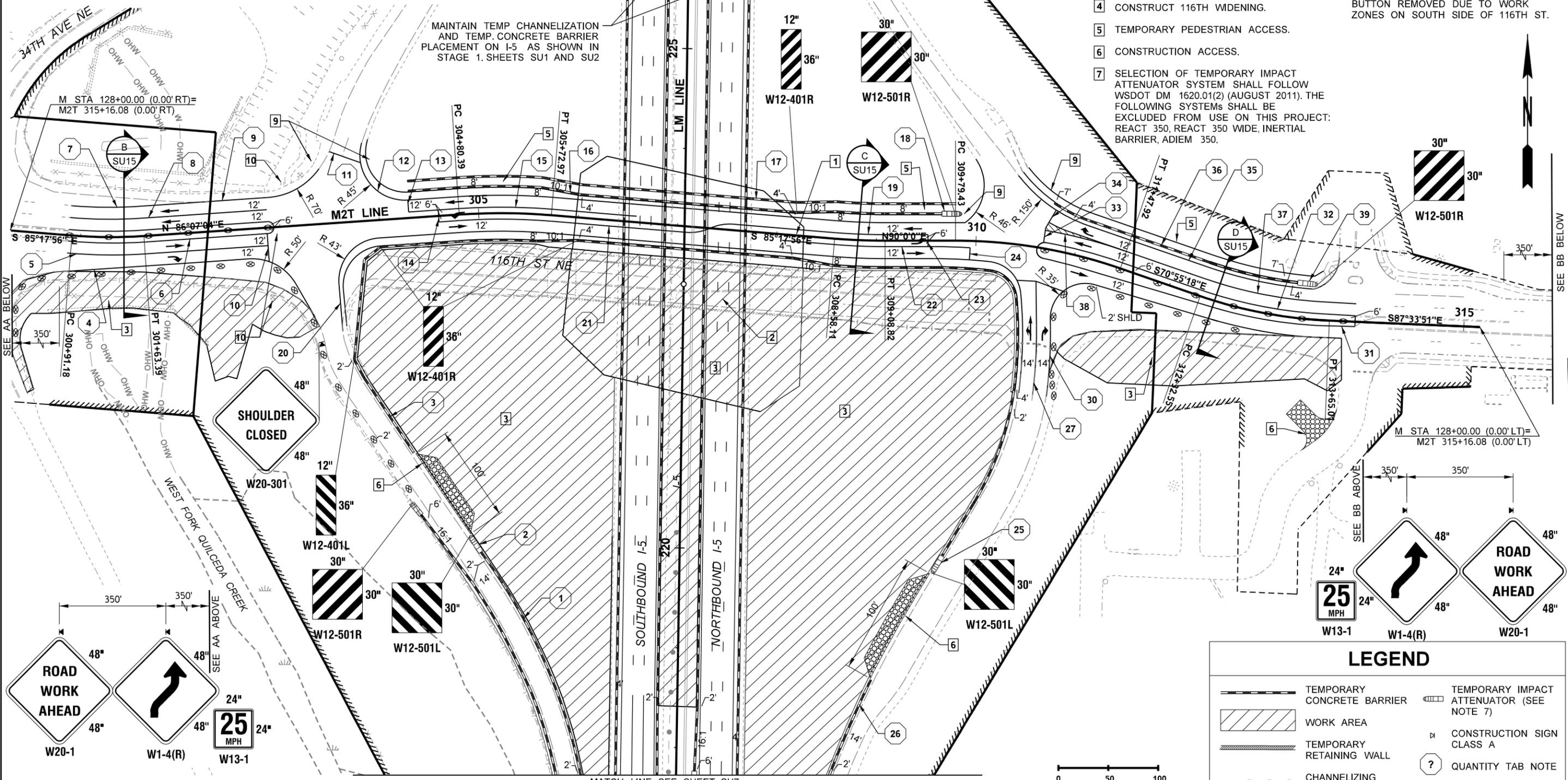
FILE NAME	\\parametrix.com\pmx\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADD\IPS&ESheets\BL1598033_PS_SU.dgn			REGION NO.	STATE	FED.AID PROJ.NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS STAGE CONSTRUCTION PLAN	Plot 4
TIME	9:51:40 AM			10	WASH					PLAN REF NO SU4
DATE	10/26/2012			JOB NUMBER					SHEET	
PLOTTED BY	purgabut			CONTRACT NO.		LOCATION NO.			OF	
DESIGNED BY	E. SOTO								SHEETS	
ENTERED BY	J. BETZVOG									
CHECKED BY	O. KIKUTA									
PROJ. ENGR.	S. SHAKLAWUN									
REGIONAL ADM.	L. ENG			REVISION	DATE	BY	P.E. STAMP BOX	DATE		

SEC 8 & SEC 9, T. 30N. R. 5E. W.M.

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
M2T 301+27.35	8°35'00" LEFT	482'	36.17'	72.21'	
M2T 305+26.77	8°35'00" RIGHT	618'	46.38'	92.58'	
M2T 308+83.48	4°42'04" LEFT	618'	25.37'	50.71'	
M2T 310+64.46	19°04'42" RIGHT	506'	85.03'	168.49'	
M2T 312+99.25	16°38'33" LEFT	456'	66.70'	132.45'	

GENERAL NOTES:

- REDIRECT TRAFFIC FLOW TO STAGE 1 CONSTRUCTION.
- REMOVAL OF EXISTING 116TH BRIDGE.
- CONSTRUCT REMAINING BRIDGE, RAMP EMBANKMENT, AND WALLS.
- CONSTRUCT 116TH WIDENING.
- TEMPORARY PEDESTRIAN ACCESS.
- CONSTRUCTION ACCESS.
- SELECTION OF TEMPORARY IMPACT ATTENUATOR SYSTEM SHALL FOLLOW WSDOT DM 1620.01(2) (AUGUST 2011). THE FOLLOWING SYSTEMS SHALL BE EXCLUDED FROM USE ON THIS PROJECT: REACT 350, REACT 350 WIDE, INERTIAL BARRIER, ADIEM 350.
- NO FLAGGERS OR SPOTTERS ON I-5 AND RAMPS.
- TEMP. PEDESTRIAN SIGNAL. HEAD AND PUSH BUTTON. SEE TEMP. SIGNAL PLANS.
- EXISTING CROSSWALKS AND PEDESTRIAN SIGNAL HEAD, AND PUSH BUTTON REMOVED DUE TO WORK ZONES ON SOUTH SIDE OF 116TH ST.



STAGE 2

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svc\CADDIPS&ESheets\BL1598033_PS_SU.dgn	REGION NO.	STATE	FED.AID PROJ.NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS STAGE CONSTRUCTION PLAN	Plot 6
TIME	11:39:46 AM	10	WASH					PLAN REF NO SU6
DATE	6/14/2012	JOB NUMBER						SHEET
PLOTTED BY	purgabut	CONTRACT NO.						OF
DESIGNED BY	E. SOTO	LOCATION NO.						SHEETS
ENTERED BY	J. BETZVOG							
CHECKED BY	O. KIKUTA							
PROJ. ENGR.	S. SHAKLAWUN							
REGIONAL ADM.	L. ENG	REVISION	DATE	BY	P.E. STAMP BOX	P.E. STAMP BOX		

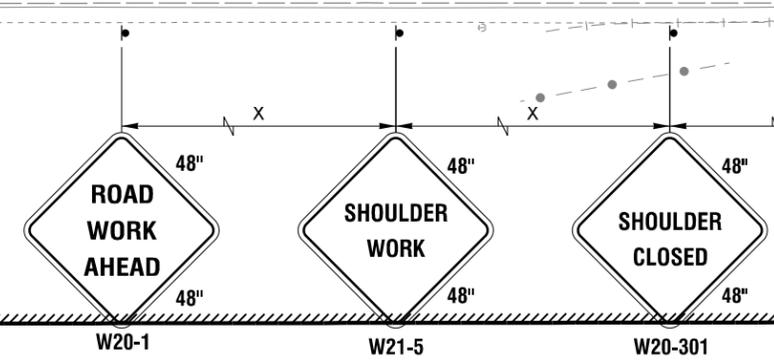
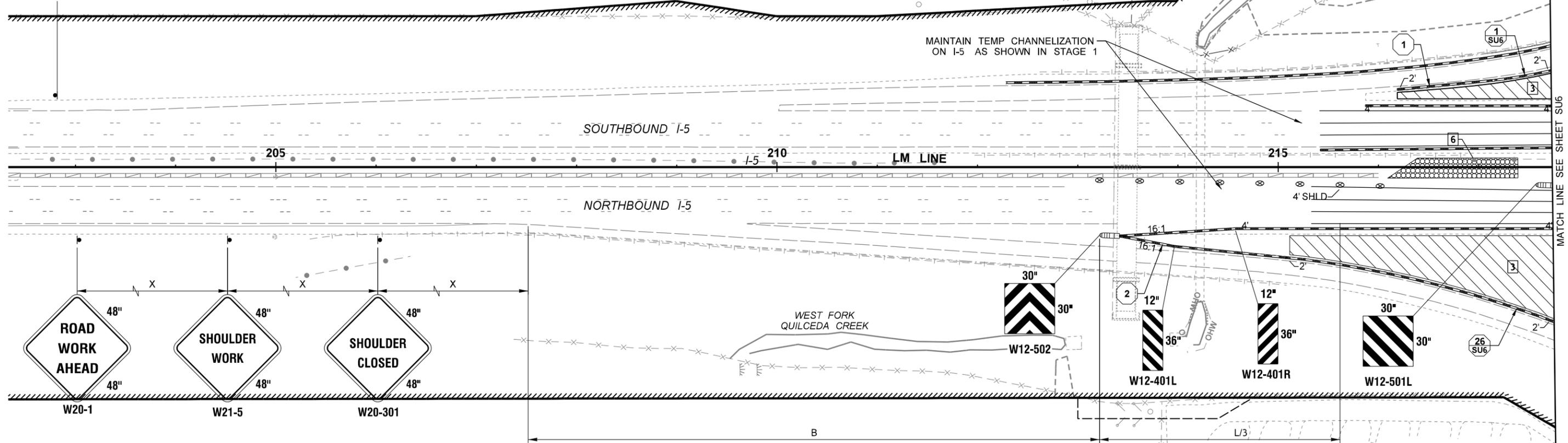
SEC 8, T. 30N. R. 5E. W.M.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

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

GENERAL NOTES:

- REDIRECT TRAFFIC FLOW TO STAGE 1 CONSTRUCTION.
- REMOVAL OF EXISTING 116TH BRIDGE.
- CONSTRUCT REMAINING BRIDGE, RAMP EMBANKMENT, AND WALLS.
- CONSTRUCT 116TH WIDENING.
- TEMPORARY PEDESTRIAN ACCESS.
- CONSTRUCTION ACCESS.
- SELECTION OF TEMPORARY IMPACT ATTENUATOR SYSTEM SHALL FOLLOW WSDOT DM 1620.01(2) (AUGUST 2011). THE FOLLOWING SYSTEMS SHALL BE EXCLUDED FROM USE ON THIS PROJECT: REACT 350, REACT 350 WDE, INERTIAL BARRIER, ADIEM 350.
- NO FLAGGERS OR SPOTTERS ON I-5 AND RAMP.
- TEMP. PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON. SEE TEMP. SIGNAL PLANS.
- EXISTING CROSSWALKS AND PEDESTRIAN SIGNAL HEAD, AND PUSH BUTTON REMOVED DUE TO WORK ZONES ON SOUTH SIDE OF 116TH ST.



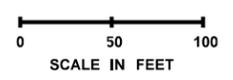
LEGEND

- TEMPORARY CONCRETE BARRIER
- WORK AREA
- TEMPORARY RETAINING WALL
- CHANNELIZING DEVICES
- TEMPORARY IMPACT ATTENUATOR (SEE NOTE 7)
- CONSTRUCTION SIGN CLASS A
- QUANTITY TAB NOTE

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)

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

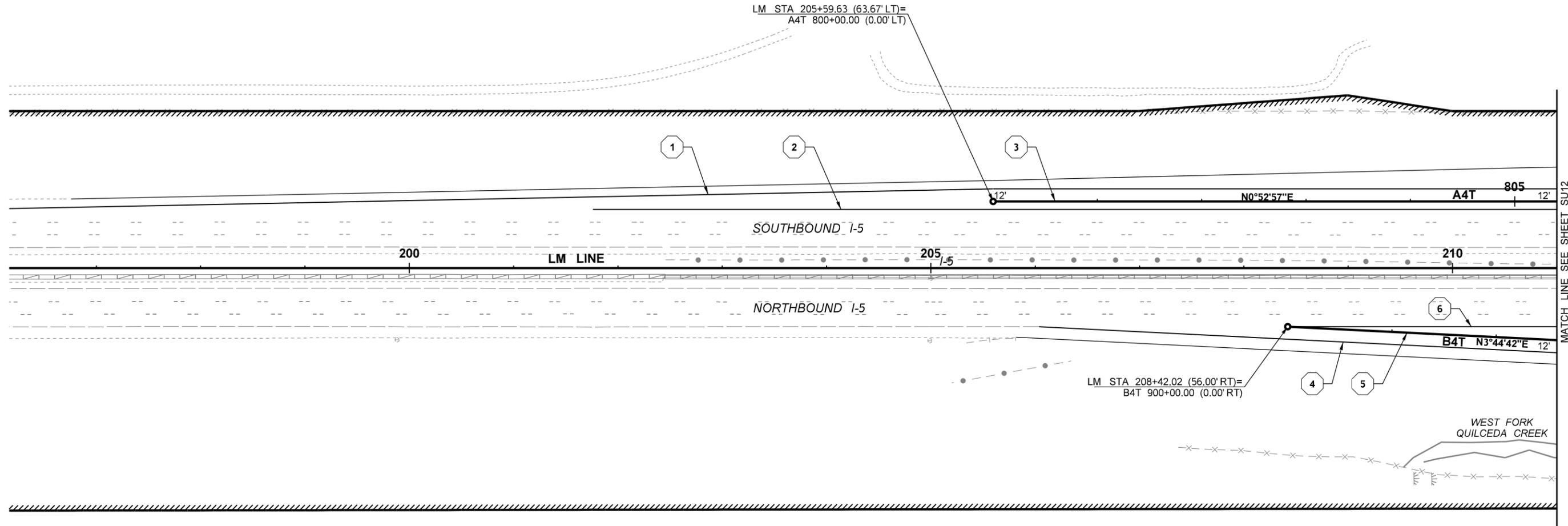
STAGE 2



LANE WIDTH (feet)	MINIMUM TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svc\CADD\PS&ESheets\BL1598033_PS_SU.dgn										
TIME	11:39:57 AM										
DATE	6/14/2012										
PLOTTED BY	purgabut										
DESIGNED BY	E. SOTO										
ENTERED BY	J. BETZVOG										
CHECKED BY	O. KIKUTA										
PROJ. ENGR.	S. SHAKLAWUN										
REGIONAL ADM.	L. ENG										
REVISION											
DATE											
BY											
REGION	10	STATE	WASH	FED.AID PROJ.NO.							
JOB NUMBER											
CONTRACT NO.											
LOCATION NO.											
P.E. STAMP BOX	DATE										
P.E. STAMP BOX	DATE										
										Plot 7	
										PLAN REF NO	
I-5 116TH ST NE INTERCHANGE IMPROVEMENTS										SU7	
STAGE CONSTRUCTION PLAN										SHEET	
										OF	
										SHEETS	

SEC 8, T. 30N. R. 5E. W.M.



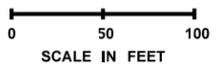
GENERAL NOTES:

- 1 PARTIALLY OPEN SPUI AND SHIFT TRAFFIC ONTO INNER PORTION OF RAMPS COMPLETED IN STAGE 3.
- 2 CONSTRUCT OUTER PORTION OF RAMPS UP TO PROPOSED GRADE.
- 3 REMOVE EXISTING RAMPS. CONSTRUCT STORMWATER PONDS.
- 4 CONSTRUCT NOISE BARRIER WALLS.

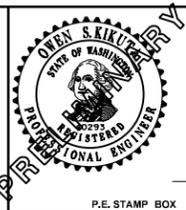
LEGEND

	TEMPORARY CONCRETE BARRIER		TEMPORARY IMPACT ATTENUATOR (SEE NOTE 7)
	WORK AREA		CONSTRUCTION SIGN CLASS A
	TEMPORARY RETAINING WALL		QUANTITY TAB NOTE
	CHANNELIZING DEVICES		

STAGE 4



FILE NAME U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\IPS&ESheets\BL1598033_PS_SU.dgn				FED.AID PROJ.NO.	
TIME	11:41:10 AM	REGION NO.	STATE		
DATE	6/14/2012	10	WASH		
PLOTTED BY	purgabut	JOB NUMBER			
DESIGNED BY	E. SOTO	CONTRACT NO.		LOCATION NO.	
ENTERED BY	J. BETZVOG				
CHECKED BY	O. KIKUTA				
PROJ. ENGR.	S. SHAKLAWUN				
REGIONAL ADM.	L. ENG	REVISION	DATE	BY	



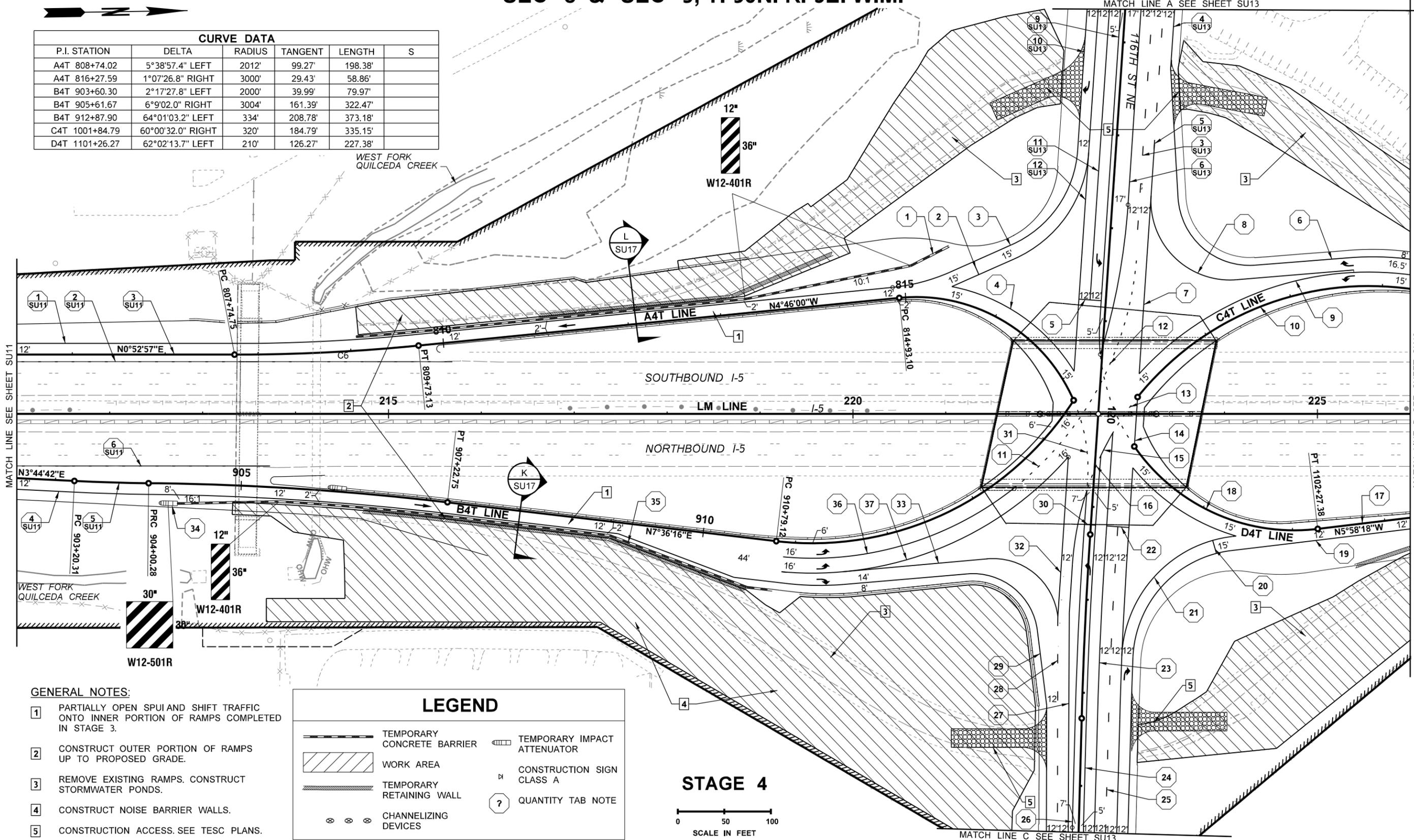
I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	
STAGE CONSTRUCTION PLAN	

Plot 11
PLAN REF NO SU11
SHEET OF SHEETS

SEC 8 & SEC 9, T. 30N. R. 5E. W.M.

MATCH LINE A SEE SHEET SU13

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
A4T 808+74.02	5°38'57.4" LEFT	2012'	99.27'	198.38'	
A4T 816+27.59	1°07'26.8" RIGHT	3000'	29.43'	58.86'	
B4T 903+60.30	2°17'27.8" LEFT	2000'	39.99'	79.97'	
B4T 905+61.67	6°9'02.0" RIGHT	3004'	161.39'	322.47'	
B4T 912+87.90	64°01'03.2" LEFT	334'	208.78'	373.18'	
C4T 1001+84.79	60°00'32.0" RIGHT	320'	184.79'	335.15'	
D4T 1101+26.27	62°02'13.7" LEFT	210'	126.27'	227.38'	



MATCH LINE SEE SHEET SU11

MATCH LINE B SEE SHEET SU13

MATCH LINE C SEE SHEET SU13

- GENERAL NOTES:**
- PARTIALLY OPEN SPUI AND SHIFT TRAFFIC ONTO INNER PORTION OF RAMPS COMPLETED IN STAGE 3.
 - CONSTRUCT OUTER PORTION OF RAMPS UP TO PROPOSED GRADE.
 - REMOVE EXISTING RAMPS. CONSTRUCT STORMWATER PONDS.
 - CONSTRUCT NOISE BARRIER WALLS.
 - CONSTRUCTION ACCESS. SEE TESC PLANS.

LEGEND

	TEMPORARY CONCRETE BARRIER		TEMPORARY IMPACT ATTENUATOR
	WORK AREA		CONSTRUCTION SIGN CLASS A
	TEMPORARY RETAINING WALL		QUANTITY TAB NOTE
	CHANNELIZING DEVICES		

STAGE 4

0 50 100
SCALE IN FEET

FILE NAME	\\parametrix.com\pmx\Bell\Projects\Clients\1598-Tulalp Tribes\1598-033-116thPh\3199Svcs\CADD\PS&ESheets\BL1598033_PS_SU.dgn		
TIME	9:43:50 AM	REGION NO.	10
DATE	10/26/2012	STATE	WASH
PLOTTED BY	purgabut	JOB NUMBER	
DESIGNED BY	E. SOTO	CONTRACT NO.	
ENTERED BY	J. BETZVOG	LOCATION NO.	
CHECKED BY	O. KIKUTA		
PROJ. ENGR.	S. SHAKLAWUN		
REGIONAL ADM.	L. ENG	REVISION	DATE BY

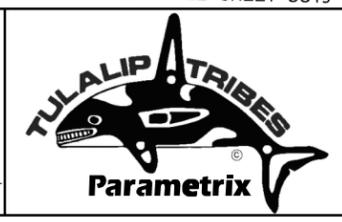
FED.AID PROJ.NO.

DATE

P.E. STAMP BOX

DATE

P.E. STAMP BOX



Plot 12

PLAN REF NO

SU12

SHEET

OF

SHEETS

I-5

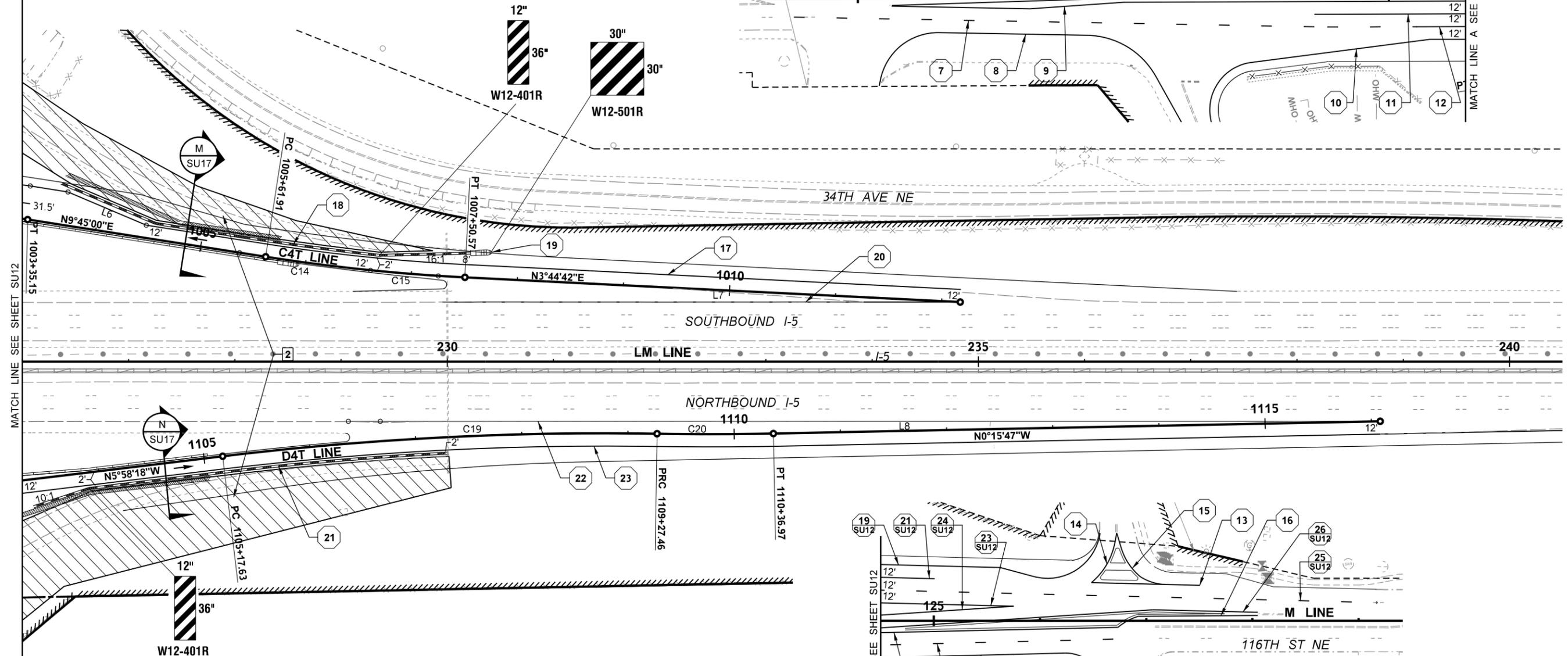
116TH ST NE

INTERCHANGE IMPROVEMENTS

STAGE CONSTRUCTION PLAN

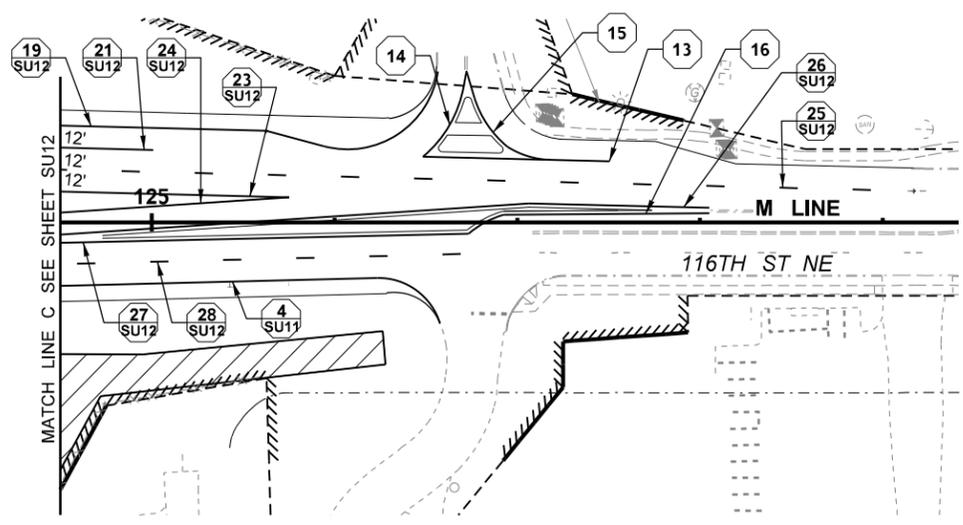
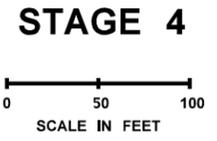
SEC 8, T. 30N. R. 5E. W.M.

CURVE DATA					
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	S
C4T 1006+56.32	6°00'18.3" LEFT	1800'	94.41'	188.66'	
D4T 1107+22.86	7°48'59.8" RIGHT	3004'	205.23'	409.82'	
D4T 1109+82.22	2°05'29.6" LEFT	3000'	54.76'	109.51'	

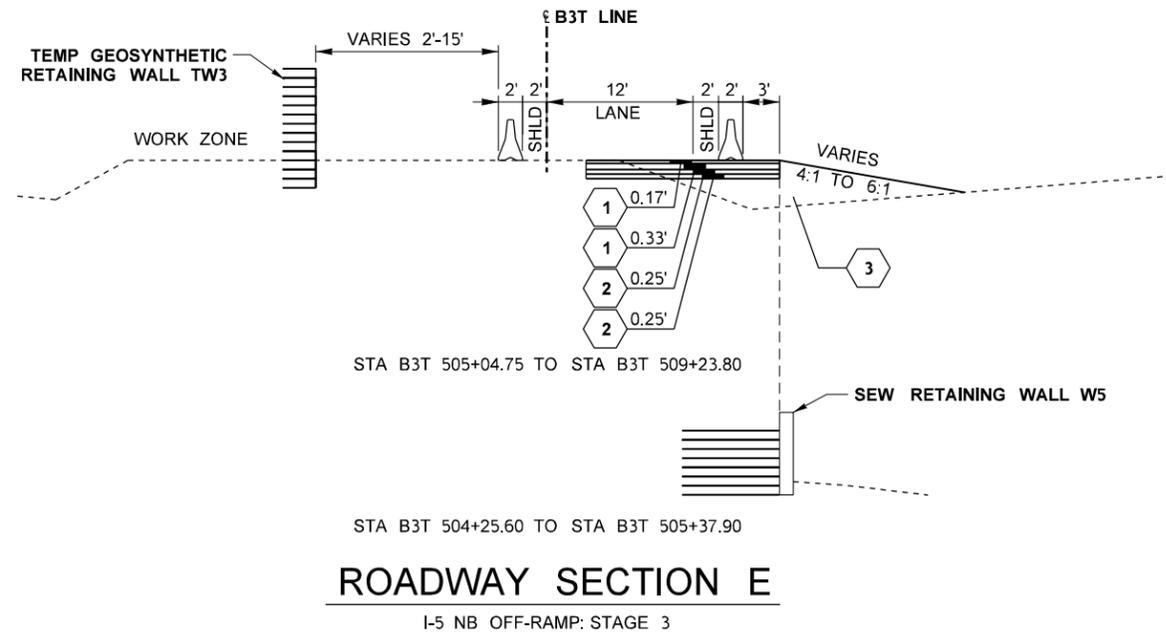


- GENERAL NOTES:**
- PARTIALLY OPEN SPUI AND SHIFT TRAFFIC ONTO INNER PORTION OF RAMPS COMPLETED IN STAGE 3.
 - CONSTRUCT OUTER PORTION OF RAMPS UP TO PROPOSED GRADE.
 - REMOVE EXISTING RAMPS. CONSTRUCT STORMWATER PONDS.

LEGEND	
	TEMPORARY CONCRETE BARRIER
	WORK AREA
	TEMPORARY RETAINING WALL
	CHANNELIZING DEVICES
	TEMPORARY IMPACT ATTENUATOR (SEE NOTE 7)
	CONSTRUCTION SIGN CLASS A
	QUANTITY TAB NOTE

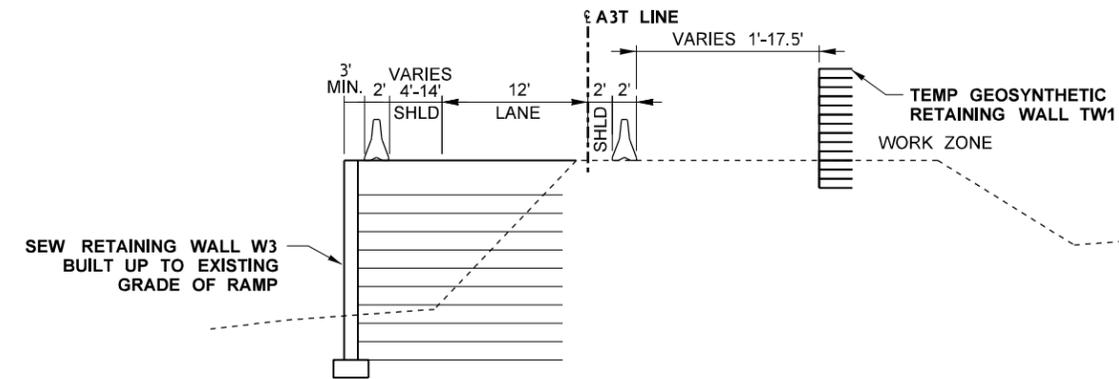


FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADD\PS&ESheets\BL1598033_PS_SU.dgn			FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS STAGE CONSTRUCTION PLAN	Plot 13
TIME	11:41:47 AM			10	WASH				PLAN REF NO SU13
DATE	6/14/2012			JOB NUMBER				SHEET	
PLOTTED BY	purgabut			CONTRACT NO.				OF	
DESIGNED BY	E. SOTO			LOCATION NO.				SHEETS	
ENTERED BY	J. BETZVOG								
CHECKED BY	O. KIKUTA								
PROJ. ENGR.	S. SHAKLAWUN								
REGIONAL ADM.	L. ENG								
REVISION		DATE	BY						



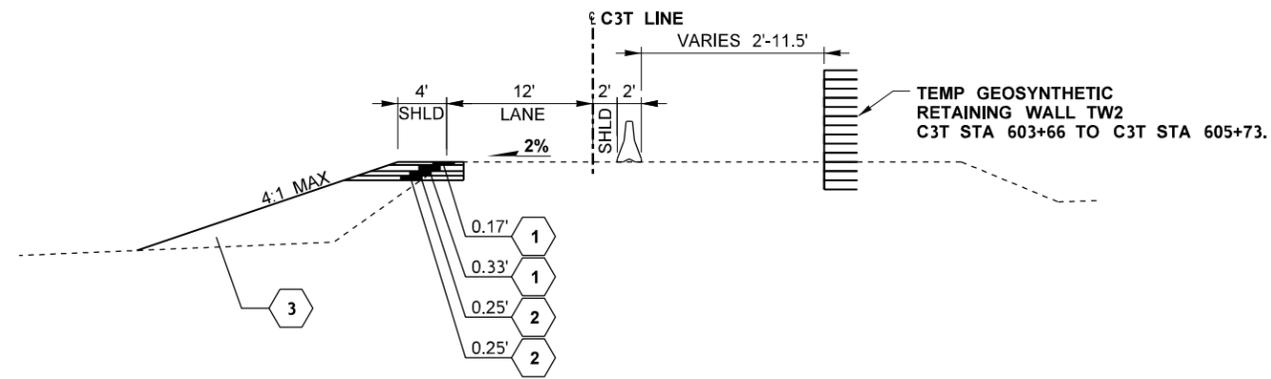
ROADWAY SECTION E

I-5 NB OFF-RAMP: STAGE 3



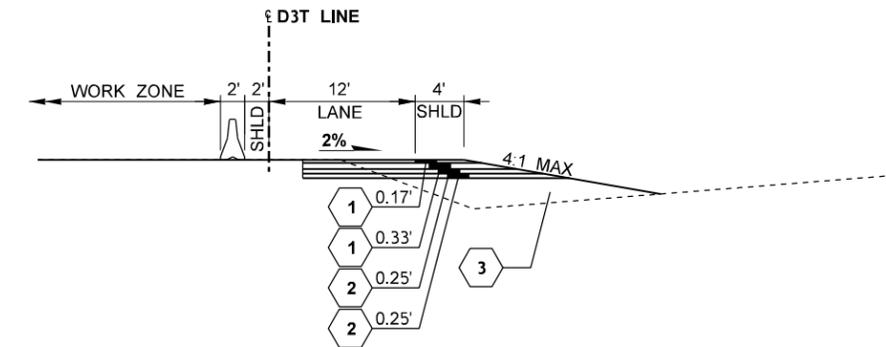
ROADWAY SECTION F

I-5 SB ON-RAMP: STAGE 3
STA A3T 405+92 TO STA A3T 409+80



ROADWAY SECTION G

I-5 SB OFF RAMP: STAGE 3
C3T STA 604+88 TO C3T STA 607+28



ROADWAY SECTION H

I-5 NB ON-RAMP: STAGE 3
STA D3T 703+88 TO STA D3T 709+07

LEGEND

- 1 HMA CL. 1/2 IN. PG 58-22.
- 2 CRUSHED SURFACE BASE COURSE
- 3 GRAVEL BORROW INCL. HAUL

GENERAL NOTES:

1. SEE SHEET WA1-WA15 FOR RETAINING WALLS.

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svcs\CADD\PS&ESheets\BL1598033_PS_SU.dgn		REGION NO. STATE		FED.AID PROJ.NO.		DATE		DATE		TULALIP TRIBES Parametrix		I-5 116TH ST NE INTERCHANGE IMPROVEMENTS STAGE CONSTRUCTION PLAN		Plot 16 PLAN REF NO SU16	
TIME 11:42:29 AM		10	WASH											SHEET	
DATE 6/14/2012		JOB NUMBER												OF	
PLOTTED BY purgabut		CONTRACT NO.		LOCATION NO.										SHEETS	
DESIGNED BY E. SOTO		REVISION	DATE	BY		P.E. STAMP BOX		P.E. STAMP BOX							
ENTERED BY J. BETZVOG															
CHECKED BY O. KIKUTA															
PROJ. ENGR. S. SHAKLAWUN															
REGIONAL ADM. L. ENG															

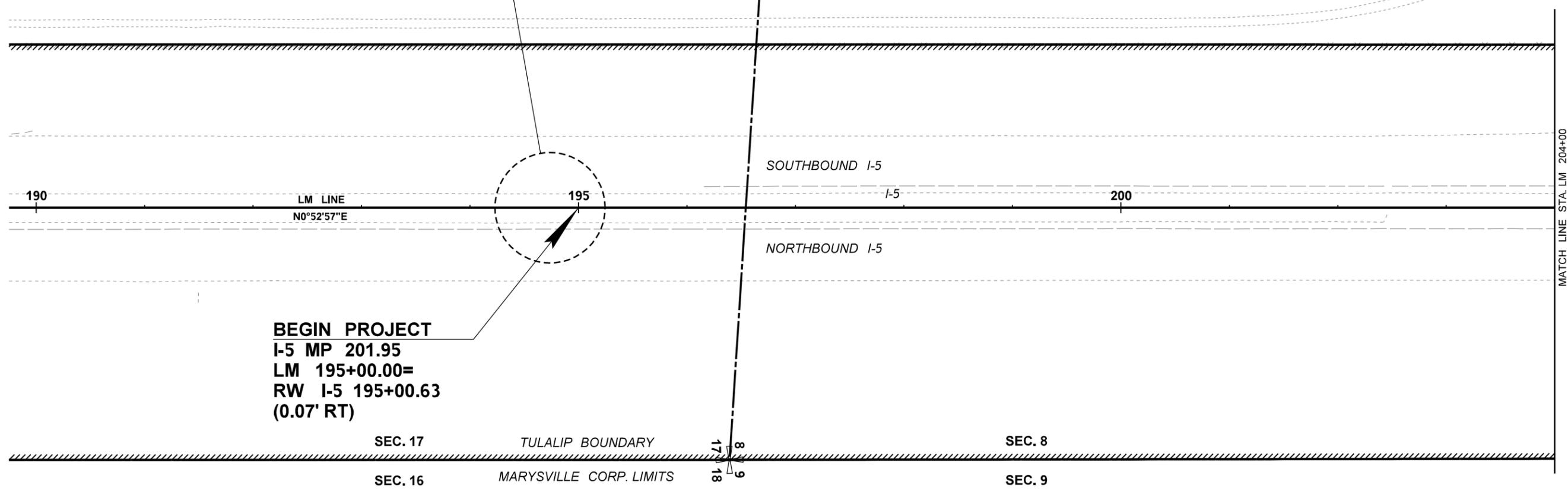
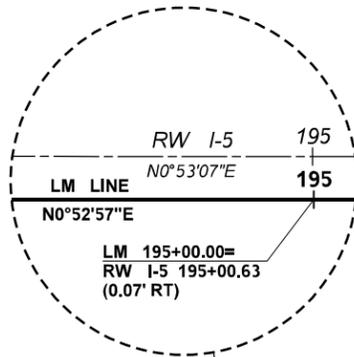
ALIGNMENT COORDINATES		
STATION	NORTHING	EASTING
LM 195+00.00	729535.21	1638312.01

T. 30N. R. 5E. W.M.



NOTE:

- PER RCW 58.09.130, ANY MONUMENT OR CORNER DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT NO COST TO THE CONTRACTING AGENCY.

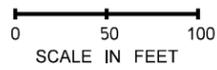


BEGIN PROJECT
I-5 MP 201.95
LM 195+00.00=
RW I-5 195+00.63
(0.07' RT)

MATCH LINE STA. LM 204+00
SEE SHEET AL2

LEGEND

- EXISTING ALIGNMENT
- CONSTRUCTION ALIGNMENT
- TEMPORARY CONSTRUCTION EASEMENT
- WSDOT RIGHT OF WAY
- LIMITED ACCESS RIGHT OF WAY
- TRIBE/COUNTY/CITY RIGHT OF WAY
- SIXTEENTH SECTION LINE
- QUARTER SECTION LINE
- SECTION LINE
- FOUND QUARTER CORNER
- NOT FOUND SECTION CORNER



THE BASIS OF BEARINGS AND DISTANCES ARE DETERMINED FROM WASHINGTON STATE PLANE COORDINATE SYSTEM NORTH ZONE, NAD 83(91).

THE DISTANCES SHOWN ARE GROUND DIMENSIONS. THE COMBINED SCALE FACTOR IS 0.99993730.

FILE NAME U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\PS&ESheets\BL1598033_PS_ALRW.dgn				FED.AID PROJ.NO.	
TIME 9:37:40 AM		REGION NO. 10	STATE WASH		
DATE 6/14/2012		JOB NUMBER			
PLOTTED BY purgabut		CONTRACT NO.		LOCATION NO.	
DESIGNED BY J. JUN					
ENTERED BY B. PURGANAN					
CHECKED BY O. KIKUTA					
PROJ. ENGR.					
REGIONAL ADM.	REVISION	DATE	BY		

P.E. STAMP BOX

DATE



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 1 PLAN REF NO AL1
ALIGNMENT / RIGHT OF WAY PLAN	SHEET OF SHEETS

T. 30N. R. 5E. W.M.

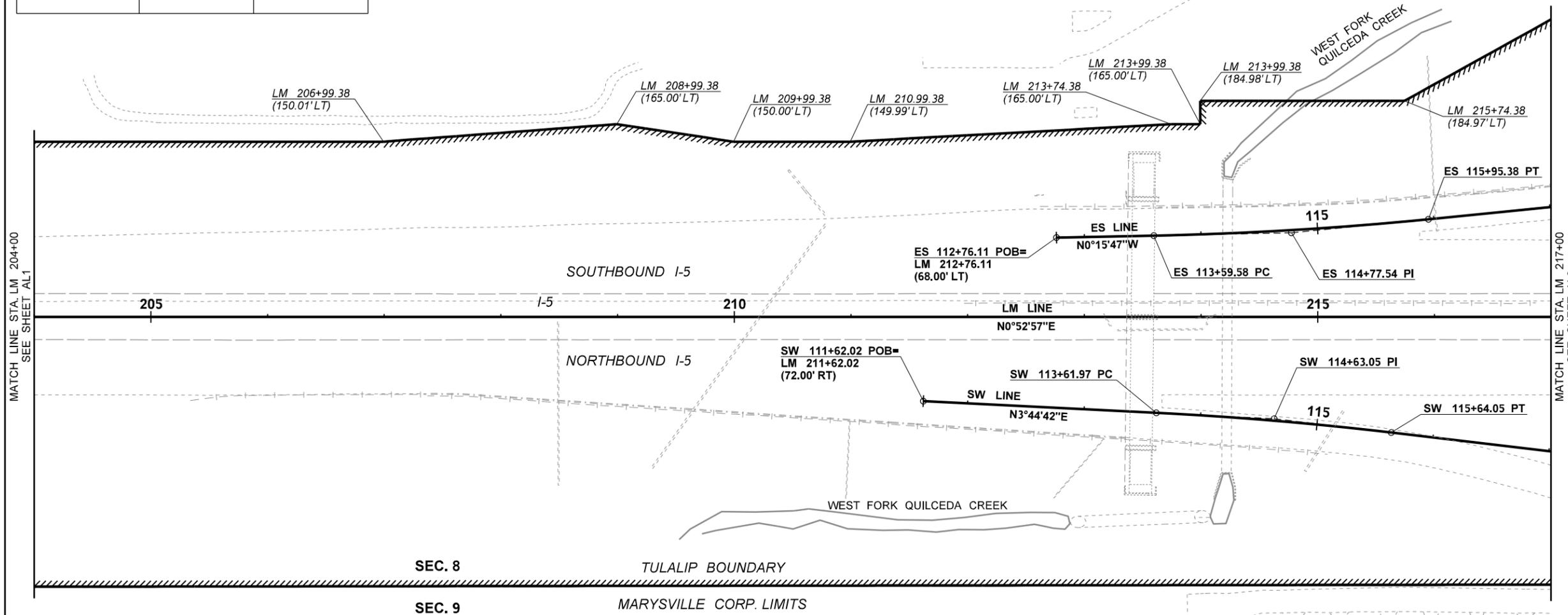


NOTE:

- PER RCW 58.09.130, ANY MONUMENT OR CORNER DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT NO COST TO THE CONTRACTING AGENCY.

CURVE DATA				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
ES 114+77.54	4°30'13"LT	3000.00'	117.96'	235.80'
SW 114+63.05	3°51'34"RT	3000.00'	101.08'	202.08'

ALIGNMENT COORDINATES		
STATION	NORTHING	EASTING
ES 112+76.11	731312.16	1638271.38
SW 111+62.02	731195.93	1638409.61

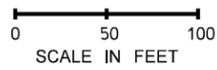


MATCH LINE STA. LM 204+00
SEE SHEET AL1

MATCH LINE STA. LM 217+00
SEE SHEET AL3

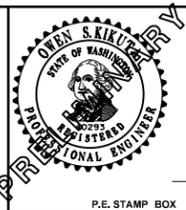
LEGEND

- EXISTING ALIGNMENT
- CONSTRUCTION ALIGNMENT
- TEMPORARY CONSTRUCTION EASEMENT
- WSDOT RIGHT OF WAY
- LIMITED ACCESS RIGHT OF WAY
- TRIBE/COUNTY/CITY RIGHT OF WAY
- SIXTEENTH SECTION LINE
- QUARTER SECTION LINE
- SECTION LINE
- FOUND QUARTER CORNER
- NOT FOUND SECTION CORNER



FILE NAME	U:\Bell\Projects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh\3199Svcs\CADD\IPS&ESheets\BL1598033_PS_ALRW.dgn			
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DATE	6/14/2012			
PLOTTED BY	purgabut			
DESIGNED BY	J. JUN			
ENTERED BY	B. PURGANAN			
CHECKED BY	O. KIKUTA			
PROJ. ENGR.				
REGIONAL ADM.	REVISION	DATE	BY	

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

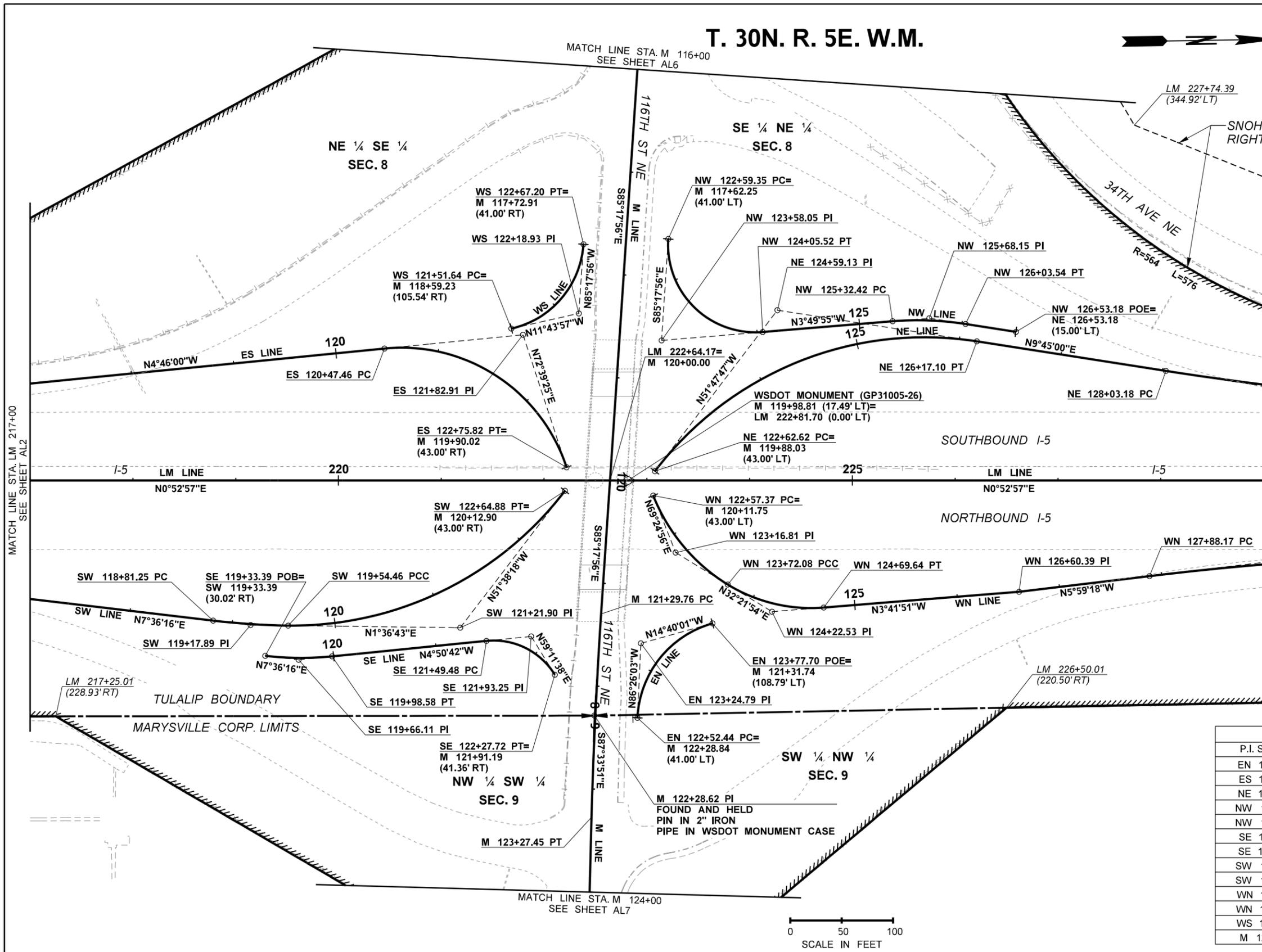


I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 2
	PLAN REF NO AL2
ALIGNMENT / RIGHT OF WAY PLAN	SHEET OF SHEETS

T. 30N. R. 5E. W.M.

NOTE:

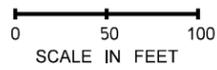
- PER RCW 58.09.130, ANY MONUMENT OR CORNER DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT NO COST TO THE CONTRACTING AGENCY.



ALIGNMENT COORDINATES		
STATION	NORTHING	EASTING
WS 121+51.64	732205.41	1638205.65
WS 122+67.20	732276.80	1638124.90
ES 122+75.82	732257.02	1638341.12
SW 122+64.88	732255.14	1638363.92
SE 119+33.39	731961.06	1638519.56
SE 122+27.72	732242.50	1638542.29
NW 122+59.35	732359.40	1638121.00
NW 126+53.18	732696.19	1638216.37
NE 122+62.62	732342.89	1638346.19
WN 122+57.37	732340.95	1638369.83
EN 122+52.44	732322.20	1638585.28
EN 123+77.70	732396.69	1638494.76

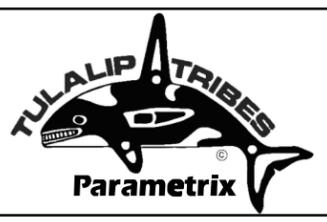
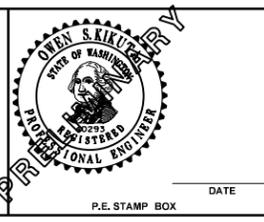
LEGEND	
	EXISTING ALIGNMENT
	CONSTRUCTION ALIGNMENT
	TEMPORARY CONSTRUCTION EASEMENT
	WSDOT RIGHT OF WAY
	LIMITED ACCESS RIGHT OF WAY
	TRIBE/COUNTY/CITY RIGHT OF WAY
	SIXTEENTH SECTION LINE
	QUARTER SECTION LINE
	SECTION LINE
	FOUND QUARTER CORNER
	NOT FOUND SECTION CORNER

CURVE DATA				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
EN 123+24.79	71°46'03"RT	100.00'	72.35'	125.26'
ES 121+82.91	77°25'25"RT	169.00'	135.45'	228.37'
NE 124+59.13	61°32'48"RT	330.00'	196.51'	354.48'
NW 123+58.05	98°31'59"LT	85.00'	98.70'	146.18'
NW 125+68.15	13°34'55"RT	300.00'	35.73'	71.12'
SE 119+66.11	12°26'59"RT	300.00'	32.72'	65.19'
SE 121+93.25	64°02'20"RT	70.00'	43.77'	78.24'
SW 119+17.89	5°59'33"LT	700.00'	36.64'	73.21'
SW 121+21.90	53°15'01"LT	334.00'	167.44'	310.42'
WN 123+16.81	37°03'02"LT	177.39'	59.44'	114.71'
WN 124+22.53	36°03'45"LT	155.00'	50.46'	97.56'
WS 122+18.93	73°33'60"LT	90.00'	67.29'	115.56'
M 122+28.62	2°15'55"LT	5000.00'	98.86'	197.69'



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DATE	6/14/2012		
PLOTTED BY	purgabut		
DESIGNED BY	J. JUN		
ENTERED BY	B. PURGANAN		
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

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



Plot 3
PLAN REF NO
AL3
SHEET
OF
SHEETS

**I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS**

ALIGNMENT / RIGHT OF WAY PLAN

CURVE DATA				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
NE 129+60.53	6°00'18"LT	3000.00'	157.36'	314.43'
WN 129+38.18	5°43'30"RT	3000.00'	150.01'	299.76'

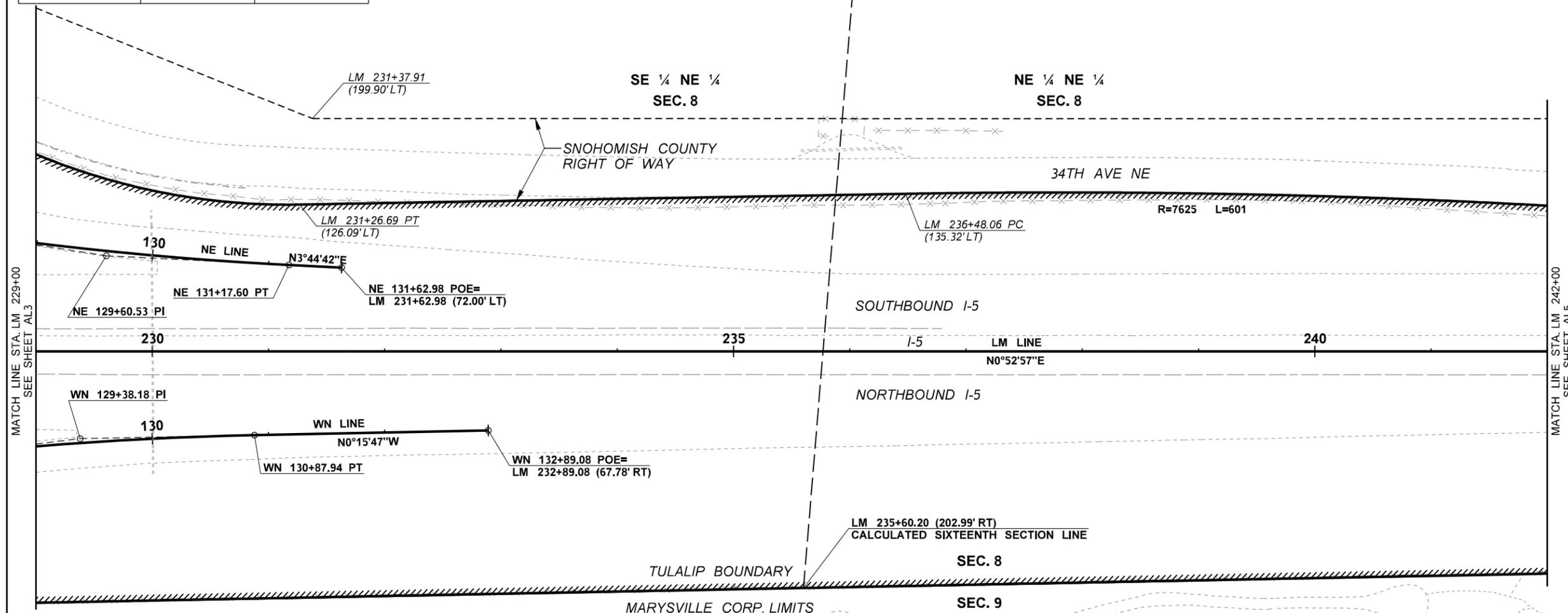
ALIGNMENT COORDINATES		
STATION	NORTHING	EASTING
NE 131+62.98	733198.87	1638296.45
WN 132+89.08	733322.80	1638438.16

T. 30N. R. 5E. W.M.



NOTE:

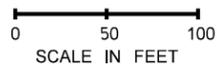
- PER RCW 58.09.130, ANY MONUMENT OR CORNER DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT NO COST TO THE CONTRACTING AGENCY.



MATCH LINE STA. LM 229+00
SEE SHEET AL3

MATCH LINE STA. LM 242+00
SEE SHEET AL5

LEGEND	
	EXISTING ALIGNMENT
	CONSTRUCTION ALIGNMENT
	TEMPORARY CONSTRUCTION EASEMENT
	WSDOT RIGHT OF WAY
	LIMITED ACCESS RIGHT OF WAY
	TRIBE/COUNTY/CITY RIGHT OF WAY
	SIXTEENTH SECTION LINE
	QUARTER SECTION LINE
	SECTION LINE
	FOUND QUARTER CORNER
	NOT FOUND SECTION CORNER



FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\199Svcs\CADD\IPS&ESheets\BL1598033_PS_ALRW.dgn			
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DATE	6/14/2012			
PLOTTED BY	purgabut			
DESIGNED BY	J. JUN			
ENTERED BY	B. PURGANAN			
CHECKED BY	O. KIKUTA			
PROJ. ENGR.				
REGIONAL ADM.	REVISION	DATE	BY	

		Plot 4
		PLAN REF NO AL4
I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		SHEET
ALIGNMENT / RIGHT OF WAY PLAN		OF
		SHEETS

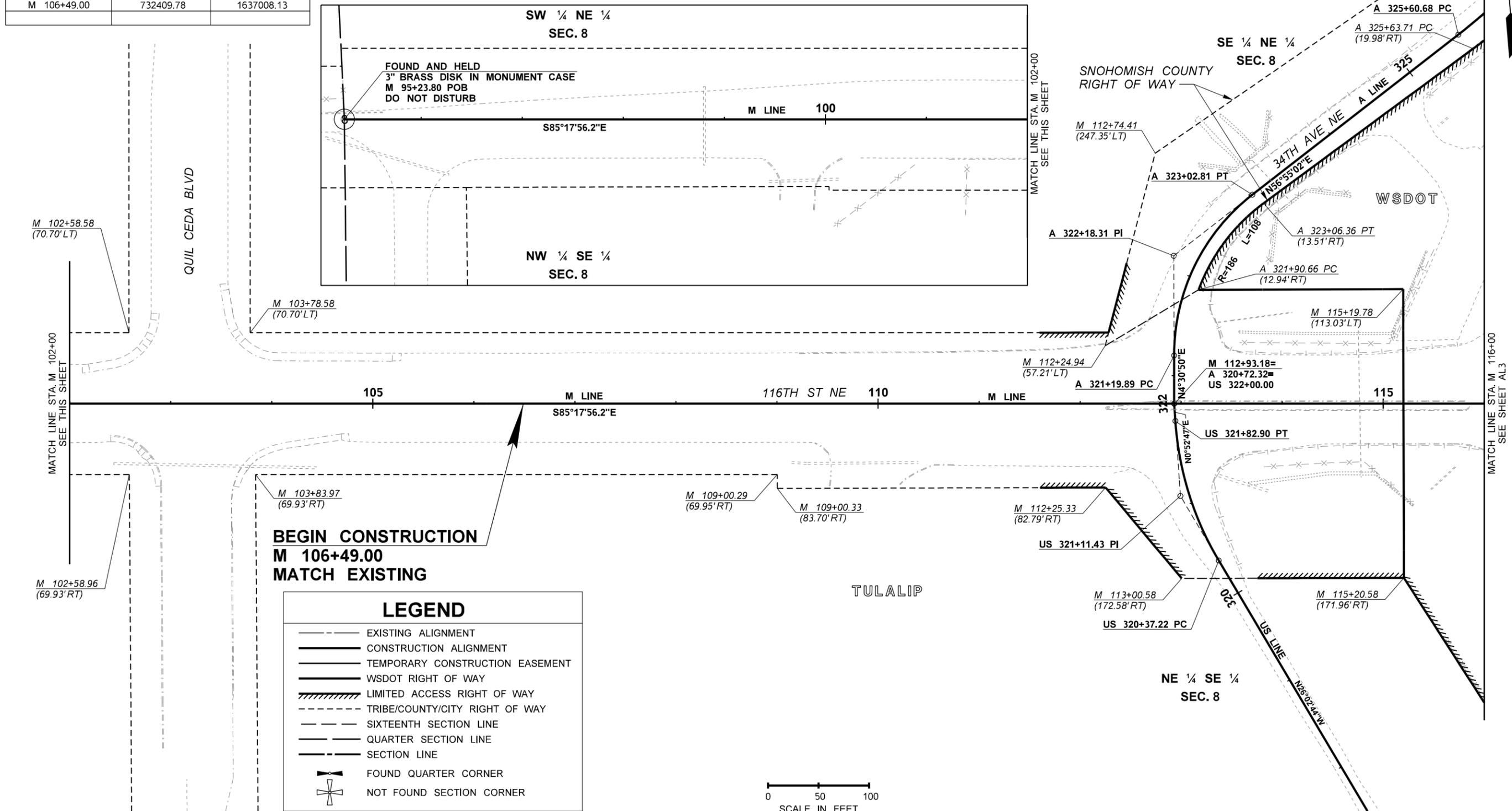
CURVE DATA				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
A 322+18.31	52°24'12"RT	200.00'	98.42'	182.92'
A 328+35.07	53°26'53"LT	545.00'	274.39'	508.40'
US 321+11.43	26°55'31"RT	310.00'	74.21'	145.68'

ALIGNMENT COORDINATES		
STATION	NORTHING	EASTING
M 106+49.00	732409.78	1637008.13

T. 30N. R. 5E. W.M.

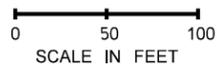
NOTE:

- PER RCW 58.09.130, ANY MONUMENT OR CORNER DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT NO COST TO THE CONTRACTING AGENCY.

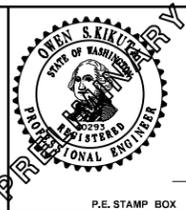


BEGIN CONSTRUCTION
M 106+49.00
MATCH EXISTING

LEGEND	
	EXISTING ALIGNMENT
	CONSTRUCTION ALIGNMENT
	TEMPORARY CONSTRUCTION EASEMENT
	WSDOT RIGHT OF WAY
	LIMITED ACCESS RIGHT OF WAY
	TRIBE/COUNTY/CITY RIGHT OF WAY
	SIXTEENTH SECTION LINE
	QUARTER SECTION LINE
	SECTION LINE
	FOUND QUARTER CORNER
	NOT FOUND SECTION CORNER



FILE NAME	U:\Bell\Projects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3199Svcs\CADD\PS&ESheets\BL1598033_PS_ALRW.dgn			FED.AID PROJ.NO.
TIME	9:45:43 AM			
DATE	6/14/2012			
PLOTTED BY	purgabut			
DESIGNED BY	J. JUN			
ENTERED BY	B. PURGANAN			
CHECKED BY	O. KIKUTA			
PROJ. ENGR.				
REGIONAL ADM.	REVISION	DATE	BY	



Plot 6
PLAN REF NO AL6
SHEET OF SHEETS

I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
ALIGNMENT / RIGHT OF WAY PLAN

T. 30N. R. 5E. W.M.

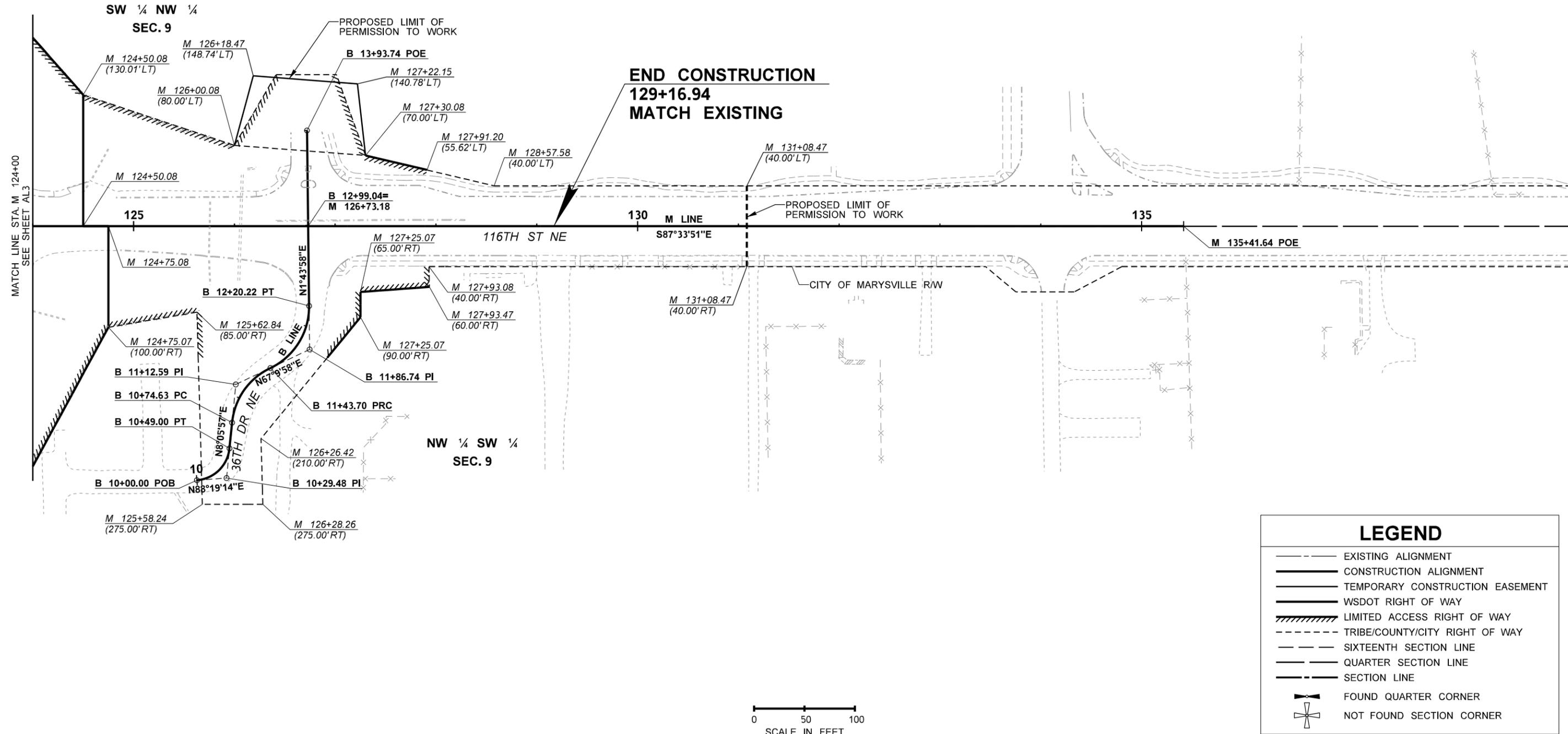
NOTE:

- PER RCW 58.09.130, ANY MONUMENT OR CORNER DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT NO COST TO THE CONTRACTING AGENCY.



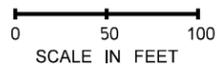
CURVE DATA				
P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH
B 10+29.48	30°13'17"LT	35.00'	29.48'	49.00'
B 11+12.59	59°04'01"RT	67.00'	37.96'	69.07'
B 11+86.74	65°26'00"LT	67.00'	43.04'	76.52'

ALIGNMENT COORDINATES		
STATION	NORTHING	EASTING
M 129+16.94	732251.06	1639270.17
B 10+00.00	732015.18	1638905.17
B 13+93.74	732356.07	1639029.49

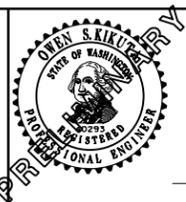


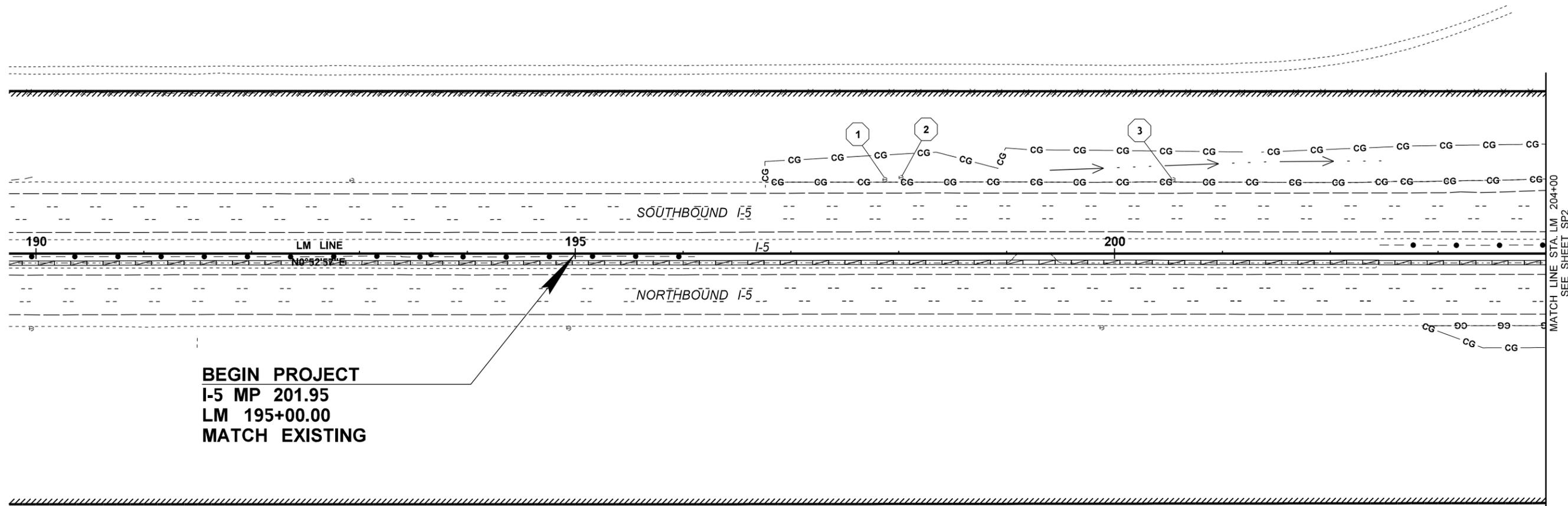
LEGEND

- EXISTING ALIGNMENT
- CONSTRUCTION ALIGNMENT
- TEMPORARY CONSTRUCTION EASEMENT
- WSDOT RIGHT OF WAY
- LIMITED ACCESS RIGHT OF WAY
- TRIBE/COUNTY/CITY RIGHT OF WAY
- SIXTEENTH SECTION LINE
- QUARTER SECTION LINE
- SECTION LINE
- FOUND QUARTER CORNER
- NOT FOUND SECTION CORNER



FILE NAME: U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADD\PS&ESheets\BL1598033_PS_ALRW.dgn		REGION NO. STATE		FED.AID PROJ.NO.		Plot 7	
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DATE: 6/14/2012		JOB NUMBER		LOCATION NO.		SHEET	
PLOTTED BY: purgabut		CONTRACT NO.				OF	
DESIGNED BY: J. JUN						SHEETS	
ENTERED BY: B. PURGANAN							
CHECKED BY: O. KIKUTA							
PROJ. ENGR.							
REGIONAL ADM.	REVISION	DATE	BY	P.E. STAMP BOX	DATE	ALIGNMENT / RIGHT OF WAY PLAN	



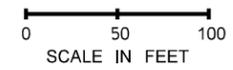


BEGIN PROJECT
I-5 MP 201.95
LM 195+00.00
MATCH EXISTING

LEGEND

	QUANTITY TAB NOTE	- G - - - G - - - G - - -	GAS LINE		UTILITY BOX
	QUANTITY TAB NOTE CONTINUED	- W - - - W - - - W - - -	WATER LINE		LIGHT STANDARD - SINGLE
	CULVERT	- OP - - - OP - - - OP - - -	ABOVEGROUND POWER		UNDERGROUND POWER VAULT
	DITCH BOTTOM	- OT - - - OT - - - OT - - -	ABOVE GROUND TELEPHONE		POWER BOX
	FENCE	- BF - - - BF - - - BF - - -	UNDERGROUND FIBER OPTIC		POWER POLE
	GUARDRAIL	- BP - - - BP - - - BP - - -	UNDERGROUND POWER		TELEPHONE BOX
	GRAVEL EDGE	- BT - - - BT - - - BT - - -	UNDERGROUND TELEPHONE		TELEPHONE RISER
	PAVED EDGE	- ● - - - ● - - - ● - - -	CABLE BARRIER		UNDERGROUND CABLE BOX
	BRIDGE	- - - - -	ITS CONDUIT AND WIRING		UNDERGROUND COMMUNICATION VAULT
	RETAINING WALL		FIRE HYDRANT		UNDERGROUND TELEPHONE BOX
	TRAFFIC BARRIER		GUY ANCHOR		
	BUILDINGS		GUIDE POST		
	STREAM EDGE		GUY POLE		
	CLEARING AND GRUBBING BOUNDARY		UTILITY POLE		
	REMOVE ASPHALT CONC PAVEMENT		WATER METER BOX		
			WATER VALVE		
			GAS VALVE		

- NOTES:**
- CLEARING AND GRUBBING LIMITS SHALL BE 5'-0" OUTSIDE OF CUT/FILL OR AS DIRECTED BY THE ENGINEER.
 - UTILITIES TO BE RELOCATED BY CITY OF MARYSVILLE.
 - LUMINAIRES, SIGNAL AND ITS EQUIPMENT TO BE REMOVED BY WSDOT.
 - SEE TEMPORARY SIGNAL PLANS FOR INTERIM LOCATION DURING CONSTRUCTION. SEE SIGNAL PLANS FOR NEW LOCATION AFTER CONSTRUCTION.
 - SEE STAGED CONSTRUCTION PLANS FOR CONSTRUCTION SEQUENCE.

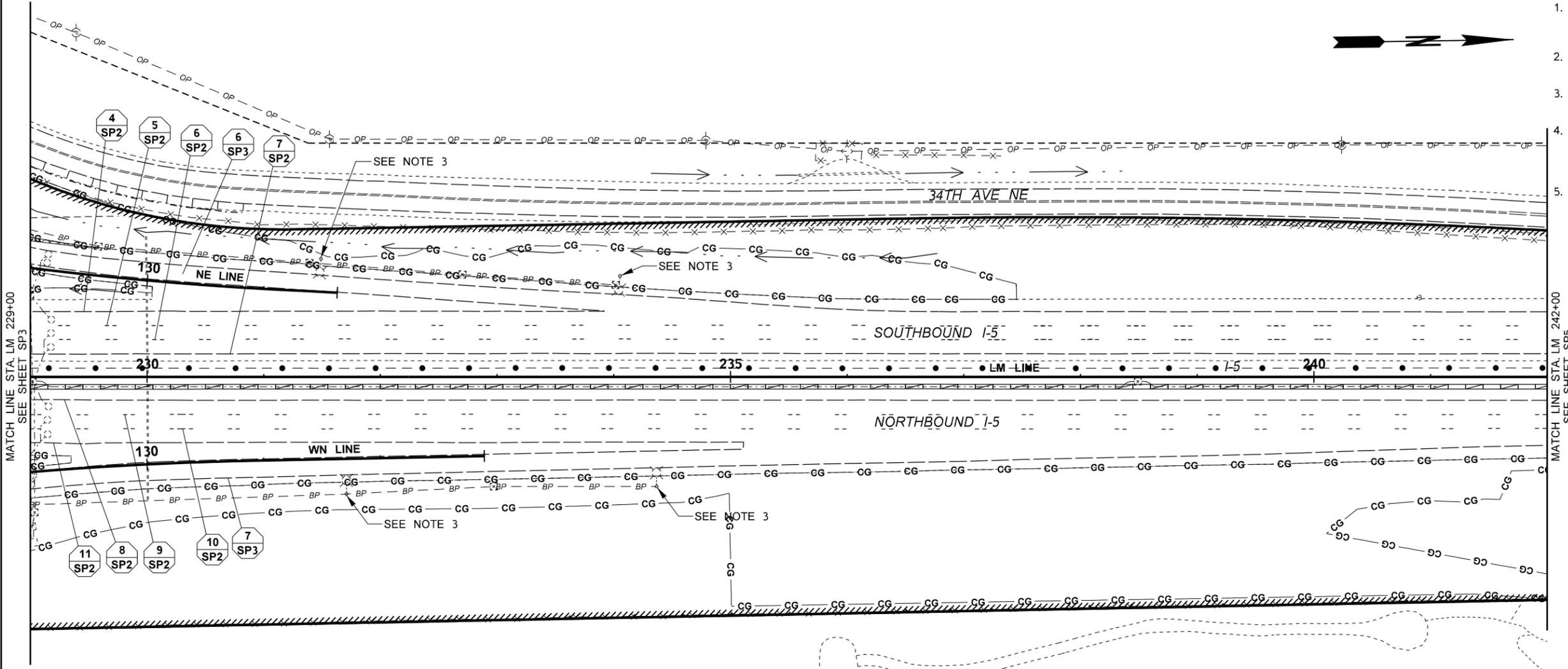


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TIME 9:56:08 AM	DATE 6/14/2012	10	WASH		PLAN REF NO				
PLOTTED BY purgabut	DESIGNED BY M. TSUN	JOB NUMBER		LOCATION NO.				SHEET	
ENTERED BY B. PURGANAN	CHECKED BY O. KIKUTA	CONTRACT NO.						OF	
PROJ. ENGR.	REVISION	DATE	BY	P.E. STAMP BOX		DATE	DATE	SHEETS	
REGIONAL ADM.				P.E. STAMP BOX					

SITE PREPARATION / EXISTING UTILITIES PLAN

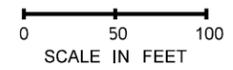
NOTES:

1. CLEARING AND GRUBBING LIMITS SHALL BE 5'-0" OUTSIDE OF CUT/FILL OR AS DIRECTED BY THE ENGINEER.
2. UTILITIES TO BE RELOCATED BY CITY OF MARYSVILLE.
3. LUMINAIRES, SIGNAL AND ITS EQUIPMENT TO BE REMOVED BY WSDOT.
4. SEE TEMPORARY SIGNAL PLANS FOR INTERIM LOCATION DURING CONSTRUCTION. SEE SIGNAL PLANS FOR NEW LOCATION AFTER CONSTRUCTION.
5. SEE STAGED CONSTRUCTION PLANS FOR CONSTRUCTION SEQUENCE.



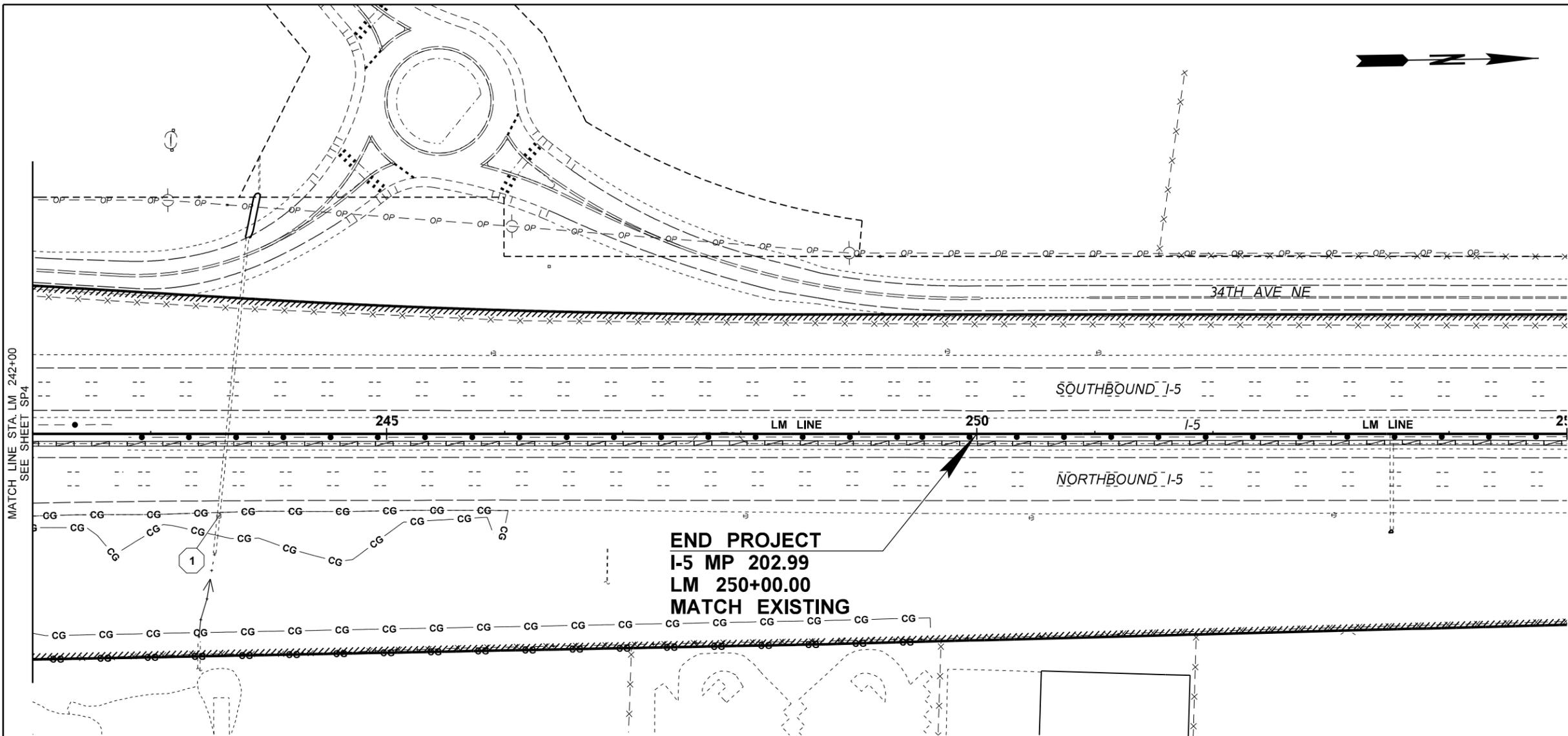
LEGEND

	QUANTITY TAB NOTE		GAS LINE		UTILITY BOX
	QUANTITY TAB NOTE CONTINUED		WATER LINE		LIGHT STANDARD - SINGLE
	CULVERT		ABOVEGROUND POWER		UNDERGROUND POWER VAULT
	DITCH BOTTOM		ABOVE GROUND TELEPHONE		POWER BOX
	FENCE		UNDERGROUND FIBER OPTIC		POWER POLE
	GUARDRAIL		UNDERGROUND POWER		TELEPHONE BOX
	GRAVEL EDGE		UNDERGROUND TELEPHONE		TELEPHONE RISER
	PAVED EDGE		CABLE BARRIER		UNDERGROUND CABLE BOX
	BRIDGE		ITS CONDUIT AND WIRING		UNDERGROUND COMMUNICATION VAULT
	RETAINING WALL		FIRE HYDRANT		UNDERGROUND TELEPHONE BOX
	TRAFFIC BARRIER		GUY ANCHOR		
	BUILDINGS		GUIDE POST		
	STREAM EDGE		GUY POLE		
	CLEARING AND GRUBBING BOUNDARY		UTILITY POLE		
	REMOVE ASPHALT CONC PAVEMENT		WATER METER BOX		
			WATER VALVE		
			GAS VALVE		



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DATE	10/24/2012				JOB NUMBER						SHEET
PLOTTED BY	purgabut				CONTRACT NO.	LOCATION NO.					OF
DESIGNED BY	M. TSUN										SHEETS
ENTERED BY	B. PURGANAN										
CHECKED BY	O. KIKUTA										
PROJ. ENGR.											
REGIONAL ADM.		REVISION		DATE	BY						

I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
SITE PREPARATION / EXISTING UTILITIES PLAN

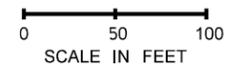


- NOTES:**
- CLEARING AND GRUBBING LIMITS SHALL BE 5'-0" OUTSIDE OF CUT/FILL OR AS DIRECTED BY THE ENGINEER.
 - UTILITIES TO BE RELOCATED BY CITY OF MARYSVILLE.
 - LUMINAIRES, SIGNAL AND ITS EQUIPMENT TO BE REMOVED BY WSDOT.
 - SEE TEMPORARY SIGNAL PLANS FOR INTERIM LOCATION DURING CONSTRUCTION. SEE SIGNAL PLANS FOR NEW LOCATION AFTER CONSTRUCTION.
 - SEE STAGED CONSTRUCTION PLANS FOR CONSTRUCTION SEQUENCE.

**END PROJECT
I-5 MP 202.99
LM 250+00.00
MATCH EXISTING**

LEGEND

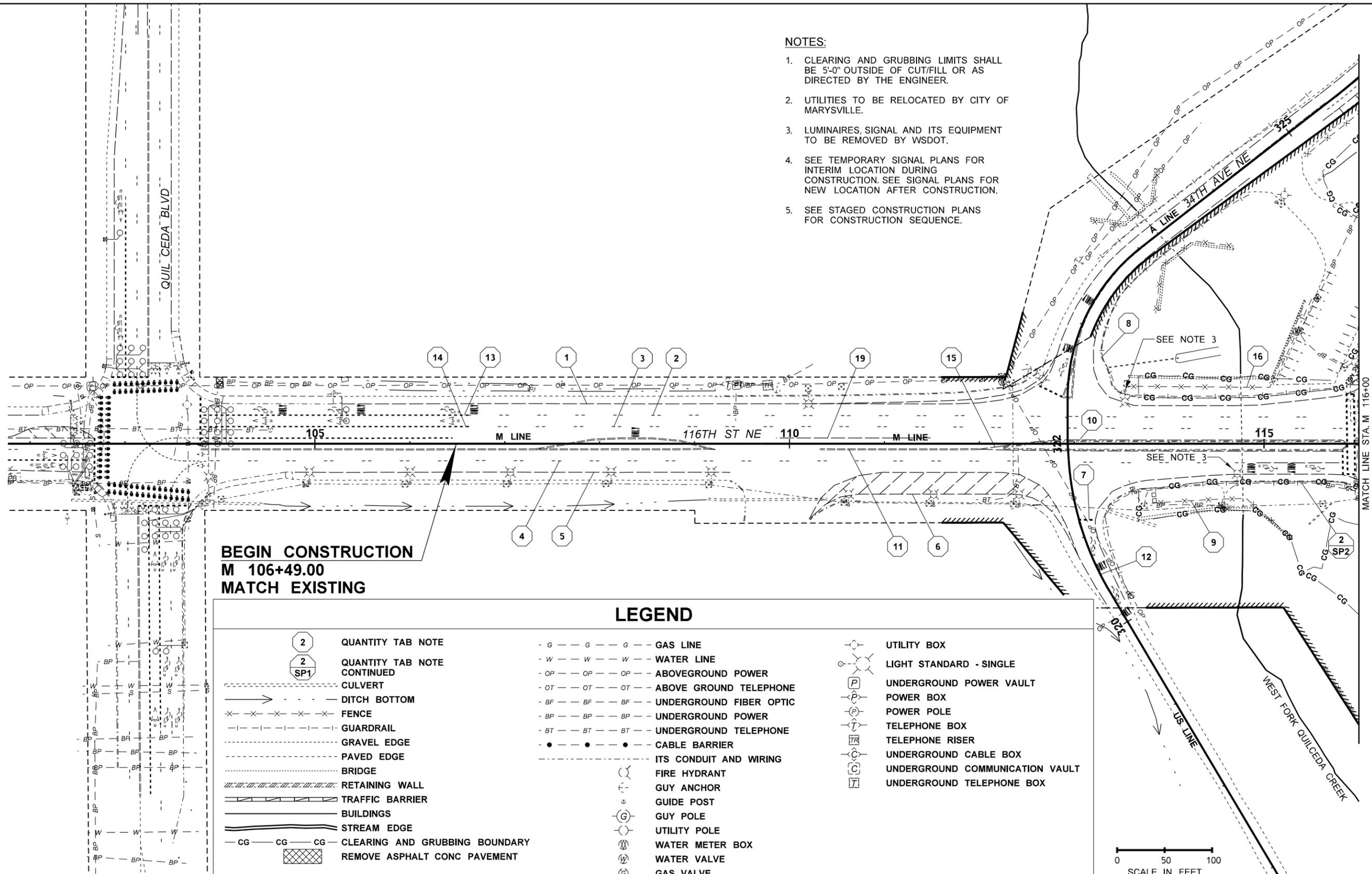
	QUANTITY TAB NOTE		GAS LINE		UTILITY BOX
	QUANTITY TAB NOTE CONTINUED		WATER LINE		LIGHT STANDARD - SINGLE
	CULVERT		ABOVEGROUND POWER		UNDERGROUND POWER VAULT
	DITCH BOTTOM		ABOVE GROUND TELEPHONE		POWER BOX
	FENCE		UNDERGROUND FIBER OPTIC		POWER POLE
	GUARDRAIL		UNDERGROUND POWER		TELEPHONE BOX
	GRAVEL EDGE		UNDERGROUND TELEPHONE		TELEPHONE RISER
	PAVED EDGE		CABLE BARRIER		UNDERGROUND CABLE BOX
	BRIDGE		ITS CONDUIT AND WIRING		UNDERGROUND COMMUNICATION VAULT
	RETAINING WALL		FIRE HYDRANT		UNDERGROUND TELEPHONE BOX
	TRAFFIC BARRIER		GUY ANCHOR		
	BUILDINGS		GUIDE POST		
	STREAM EDGE		GUY POLE		
	CLEARING AND GRUBBING BOUNDARY		UTILITY POLE		
	REMOVE ASPHALT CONC PAVEMENT		WATER METER BOX		
			WATER VALVE		
			GAS VALVE		



FILE NAME	U:\BellProjects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3199Svc\CADD\PS&ESheets\BL1598033_PS_SP.dgn				REGION NO.	STATE	FED.AID PROJ.NO.	DATE	P.E. STAMP BOX	DATE	P.E. STAMP BOX	TULALIP TRIBES Parametrix	Plot 5
TIME	9:57:04 AM												10
DATE	6/14/2012				JOB NUMBER								SHEET
PLOTTED BY	purgabut				CONTRACT NO.								OF
DESIGNED BY	M. TSUN				LOCATION NO.								SHEETS
ENTERED BY	B. PURGANAN												
CHECKED BY	O. KIKUTA												
PROJ. ENGR.													
REGIONAL ADM.		REVISION		DATE	BY								

NOTES:

1. CLEARING AND GRUBBING LIMITS SHALL BE 5'-0" OUTSIDE OF CUT/FILL OR AS DIRECTED BY THE ENGINEER.
2. UTILITIES TO BE RELOCATED BY CITY OF MARYSVILLE.
3. LUMINAIRES SIGNAL AND ITS EQUIPMENT TO BE REMOVED BY WSDOT.
4. SEE TEMPORARY SIGNAL PLANS FOR INTERIM LOCATION DURING CONSTRUCTION. SEE SIGNAL PLANS FOR NEW LOCATION AFTER CONSTRUCTION.
5. SEE STAGED CONSTRUCTION PLANS FOR CONSTRUCTION SEQUENCE.



BEGIN CONSTRUCTION
M 106+49.00
MATCH EXISTING

LEGEND

	QUANTITY TAB NOTE		GAS LINE		UTILITY BOX
	QUANTITY TAB NOTE CONTINUED		WATER LINE		LIGHT STANDARD - SINGLE
	CULVERT		ABOVEGROUND POWER		UNDERGROUND POWER VAULT
	DITCH BOTTOM		ABOVE GROUND TELEPHONE		POWER BOX
	FENCE		UNDERGROUND FIBER OPTIC		POWER POLE
	GUARDRAIL		UNDERGROUND POWER		TELEPHONE BOX
	GRAVEL EDGE		UNDERGROUND TELEPHONE		TELEPHONE RISER
	PAVED EDGE		CABLE BARRIER		UNDERGROUND CABLE BOX
	BRIDGE		ITS CONDUIT AND WIRING		UNDERGROUND COMMUNICATION VAULT
	RETAINING WALL		FIRE HYDRANT		UNDERGROUND TELEPHONE BOX
	TRAFFIC BARRIER		GUY ANCHOR		
	BUILDINGS		GUIDE POST		
	STREAM EDGE		GUY POLE		
	CLEARING AND GRUBBING BOUNDARY		UTILITY POLE		
	REMOVE ASPHALT CONC PAVEMENT		WATER METER BOX		
			WATER VALVE		
			GAS VALVE		

FILE NAME	\\parametrix.com\pmx\Bel\Projects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh\3199Svcs\CADD\PS&ESheets\BL1598033_PS_SP.dgn			
TIME	3:11:31 PM			
DATE	10/24/2012			
PLOTTED BY	purgabut			
DESIGNED BY	M. TSUN			
ENTERED BY	B. PURGANAN			
CHECKED BY	O. KIKUTA			
PROJ. ENGR.				
REGIONAL ADM.				
REVISION	DATE	BY	REGION NO.	STATE
			10	WASH
			JOB NUMBER	FED.AID PROJ.NO.
			CONTRACT NO.	LOCATION NO.

DATE _____ P.E. STAMP BOX _____



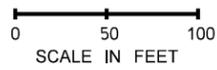
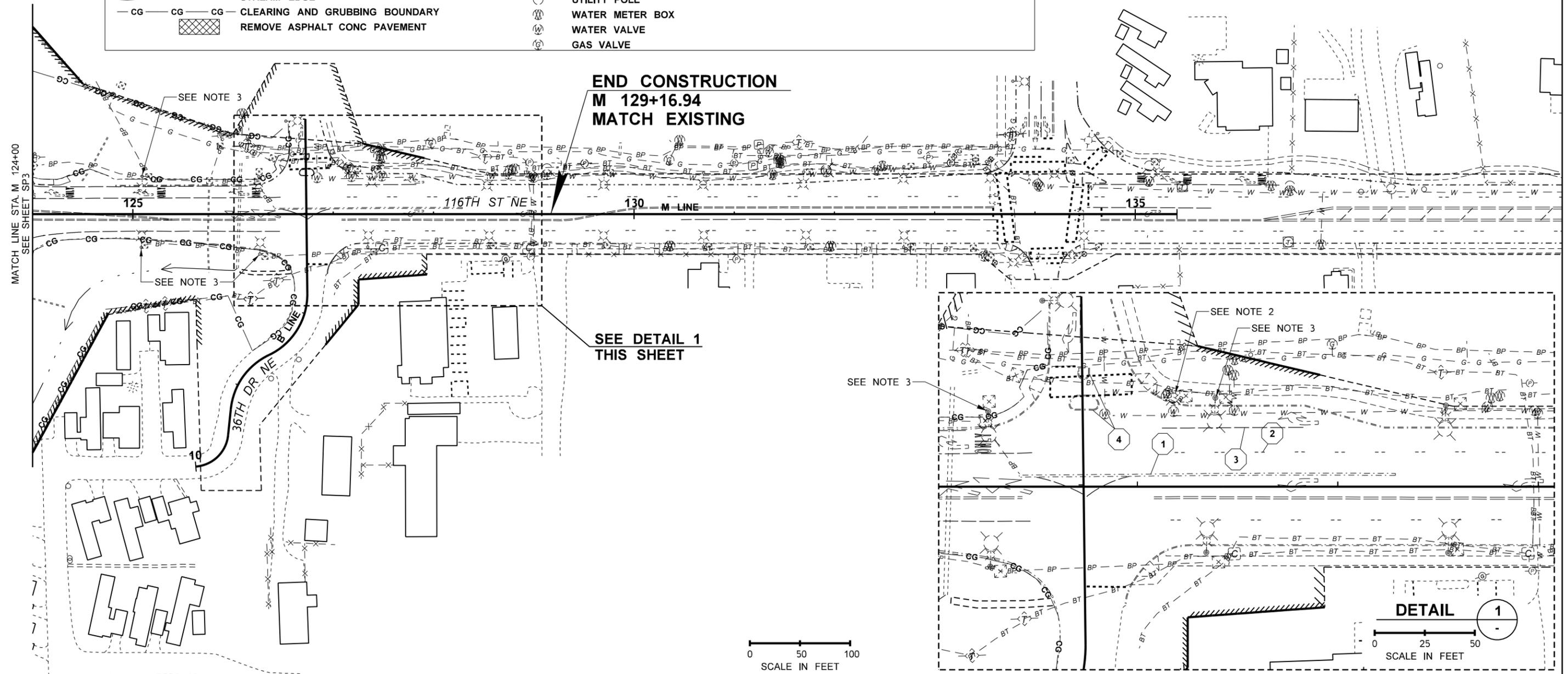
I-5	Plot 6
116TH ST NE	PLAN REF NO
INTERCHANGE IMPROVEMENTS	SP6
SITE PREPARATION / EXISTING UTILITIES PLAN	SHEET
	OF
	SHEETS

LEGEND

	QUANTITY TAB NOTE	- G - - - G - - - G - - -	GAS LINE		UTILITY BOX
	QUANTITY TAB NOTE CONTINUED	- W - - - W - - - W - - -	WATER LINE		LIGHT STANDARD - SINGLE
	CULVERT	- OP - - - OP - - - OP - - -	ABOVEGROUND POWER		UNDERGROUND POWER VAULT
	DITCH BOTTOM	- OT - - - OT - - - OT - - -	ABOVE GROUND TELEPHONE		POWER BOX
	FENCE	- BF - - - BF - - - BF - - -	UNDERGROUND FIBER OPTIC		POWER POLE
	GUARDRAIL	- BP - - - BP - - - BP - - -	UNDERGROUND POWER		TELEPHONE BOX
	GRAVEL EDGE	- BT - - - BT - - - BT - - -	UNDERGROUND TELEPHONE		TELEPHONE RISER
	PAVED EDGE	- ● - - - ● - - - ● - - -	CABLE BARRIER		UNDERGROUND CABLE BOX
	BRIDGE	- - - - -	ITS CONDUIT AND WIRING		UNDERGROUND COMMUNICATION VAULT
	RETAINING WALL		FIRE HYDRANT		UNDERGROUND TELEPHONE BOX
	TRAFFIC BARRIER		GUY ANCHOR		
	BUILDINGS		GUIDE POST		
	STREAM EDGE		GUY POLE		
	CLEARING AND GRUBBING BOUNDARY		UTILITY POLE		
	REMOVE ASPHALT CONC PAVEMENT		WATER METER BOX		
			WATER VALVE		
			GAS VALVE		

NOTES:

- CLEARING AND GRUBBING LIMITS SHALL BE 5'-0" OUTSIDE OF CUT/FILL OR AS DIRECTED BY THE ENGINEER.
- UTILITIES TO BE RELOCATED BY CITY OF MARYSVILLE.
- LUMINAIRES, SIGNAL AND ITS EQUIPMENT TO BE REMOVED BY WSDOT.
- SEE TEMPORARY SIGNAL PLANS FOR INTERIM LOCATION DURING CONSTRUCTION. SEE SIGNAL PLANS FOR NEW LOCATION AFTER CONSTRUCTION.
- SEE STAGED CONSTRUCTION PLANS FOR CONSTRUCTION SEQUENCE.



FILE NAME	\\parametrix.com\pmx\Belin\Projects\Clients\1598-Tulalip Tribes\1598-033-116thPh\3199Svc\CADD\PS&ESheets\1598033_PS_SP.dgn		
TIME	3:11:47 PM		
DATE	10/24/2012		
PLOTTED BY	purgabut		
DESIGNED BY	M. TSUN		
ENTERED BY	B. PURGANAN		
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.	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



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 7 PLAN REF NO SP7
SITE PREPARATION / EXISTING UTILITIES PLAN	SHEET OF SHEETS

QUANTITY TABULATION - TEMPORARY EROSION AND SEDIMENTATION 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.		QUARRY SPALLS	CATCH BASIN TYPE 1	CHECK DAM	INLET PROTECTION	STABILIZED CONSTRUCTION ENTRANCE	SILT FENCE	WATTLE	TEMPORARY PIPE	HIGH VISIBILITY FENCE	CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION	SEE GENERAL NOTES	GENERAL NOTES:
CODE	LOCATION \ UNIT OF MEASURE >	TON	EACH	L.F.	EACH	S.Y.	L.F.	L.F.	L.F.	L.F.	S.Y.		
EC2-1/1	LM 214+59 (74.1 RT)				3							5	1. SEE STD PLAN I-30.30-00 FOR WATTLE DETAIL 2. CONTRACTOR SHALL USE GEOTEXTILE ENCASED CHECK DAM PER STD PLANS I-50.10-00 . 3. SEE STD PLAN I-10.10-01 FOR HIGH VISIBILITY FENCE DETAIL. 4. SEE STD PLAN I-80.10-01 FOR STABILIZED CONSTRUCTION ENTRANCE DETAIL. 5. SEE STD PLAN I-40.20-00 FOR INLET PROTECTION DETAIL. 6. SEE STD PLAN I-30.15-00 FOR SILT FENCE DETAIL. 7. SEE STD PLAN I-30.20-00 FOR SILT FENCE PLACEMENT AT CULVERT ENDS DETAIL. 8. SEE 'TEMPORARY CATCH BASIN TYPE 1 SPECIAL PROVISIONS. 9. SEE 'TEMPORARY PIPE' SPECIAL PROVISIONS.
EC2-2/1	ES 120+18 (83.0 LT) TO ES 120+71 (125.2 LT)					110						4	
EC2-2/2	M 116+70 (57.0 RT)				3							5	
EC2-2/3	M 117+34 (57.5 RT)				3							5	
EC2-2/4	M 118+36 (45.4 RT)				3							5	
EC2-2/5	ES 121+83 (2.3 RT)				3							5	
EC2-2/6	SW 118+80 (47.1 RT)				3							5	
EC2-2/7	SW 119+18 (46.7 RT)				3							5	
EC2-2/8	SW 119+16 (63.0 RT) TO SW 116+09 (43.7 RT)							305				9	
EC2-2/9	SW 116+09 (43.7 RT) TO M 124+46 (37.8 RT)							680				9	
EC2-2/10	SW 119+21 (75.8 RT) TO SW 119+92 (125.8 RT)					150						4	
EC2-2/11	SE 121+03 (18.5 RT)				3							5	
EC2-2/12	SW 121+02 (2.3 LT)				3							5	
EC2-2/13	M 121+71 (43.8 RT)				3							5	
EC2-3/1	M 124.45 (4.4 RT)				3							5	
EC2-3/2	M 124+46 (37.8 RT)				3							5	
EC2-3/3	M 125+43 (36.9 RT)				3							5	
STAGE TOTAL		0	0	0	36	260	0	0	985	0	0		

DESIGNED BY	R. CUSHMAN					REGION NO.	STATE	FED. AID PROJ. NO.					
ENTERED BY	C. Buitrago					10	WASH						
CHECKED BY	P. Johannessen					JOB NUMBER							
PROJ. ENGR.	M. Moini					CONTRACT NO.							
REGION ADM.	L. Eng												
		DATE	DATE		REVISION		BY						



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

QEC2-1

SHEET

OF

SHEETS

QUANTITY TABULATION - TEMPORARY EROSION AND SEDIMENTATION CONTROL - STAGE 2

QUANTITY TABULATION - TEMPORARY EROSION AND SEDIMENTATION 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.	QUARRY SPALLS	CATCH BASIN TYPE 1	CHECK DAM	INLET PROTECTION	STABILIZED CONSTRUCTION ENTRANCE	SILT FENCE	WATTLE	TEMPORARY PIPE	HIGH VISIBILITY FENCE	CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION	SEE GENERAL NOTES	GENERAL NOTES:
CODE	LOCATION \ UNIT OF MEASURE >	TON	EACH	L.F.	EACH	S.Y.	L.F.	L.F.	L.F.	L.F.	S.Y.	
EC3-1/1	M 118+70 (43.9 RT) TO M 117+64 (32.1 RT)					230						4
EC3-1/2	M 122+31 (8.0 RT) TO M 123+31 (8.1 RT)					210						4
STAGE TOTAL		0	0	0	0	440	0	0	0	0	0	

1. SEE STD PLAN I-30.30-00 FOR WATTLE DETAIL
2. CONTRACTOR SHALL USE GEOTEXTILE ENCASED CHECK DAM PER STD PLANS I-50.10-00 .
3. SEE STD PLAN I-10.10-01 FOR HIGH VISIBILITY FENCE DETAIL.
4. SEE STD PLAN I-80.10-01 FOR STABILIZED CONSTRUCTION ENTRANCE DETAIL.
5. SEE STD PLAN I-40.20-00 FOR INLET PROTECTION DETAIL.
6. SEE STD PLAN I-30.15-00 FOR SILT FENCE DETAIL.
7. SEE STD PLAN I-30.20-00 FOR SILT FENCE PLACEMENT AT CULVERT ENDS DETAIL.
8. SEE 'TEMPORARY CATCH BASIN TYPE 1 SPECIAL PROVISIONS.
9. SEE 'TEMPORARY PIPE' SPECIAL PROVISIONS.

DESIGNED BY	R. CUSHMAN				REGION NO.	STATE	FED. AID PROJ. NO.		I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	QEC3-1
ENTERED BY	C. Buitrago				10	WASH			SHEET	
CHECKED BY	P. Johannessen				JOB NUMBER				OF	
PROJ. ENGR.	M. Moini				CONTRACT NO.				SHEETS	
REGION ADM.	L. Eng	DATE	DATE	REVISION	BY			QUANTITY TABULATION - TEMPORARY EROSION AND SEDIMENTATION CONTROL - STAGE 3		

QUANTITY TABULATION - TEMPORARY EROSION AND SEDIMENTATION CONTROL

CODE	LOCATION \ UNIT OF MEASURE >	QUARRY SPALLS TON	CATCH BASIN TYPE 1 EACH	CHECK DAM L.F.	INLET PROTECTION EACH	STABILIZED CONSTRUCTION ENTRANCE S.Y.	SILT FENCE L.F.	WATTLE L.F.	TEMPORARY PIPE L.F.	HIGH VISIBILITY FENCE L.F.	CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION S.Y.	SEE GENERAL NOTES	GENERAL NOTES:
EC4-1/1	SW 113+86 (128.1 RT) TO M 126+16 (69.1 RT)						1,006					4	1. SEE STD PLAN I-30.30-00 FOR WATTLE DETAIL 2. CONTRACTOR SHALL USE GEOTEXTILE ENCASED CHECK DAM PER STD PLANS I-50.10-00 . 3. SEE STD PLAN I-10.10-01 FOR HIGH VISIBILITY FENCE DETAIL. 4. SEE STD PLAN I-80.10-01 FOR STABILIZED CONSTRUCTION ENTRANCE DETAIL. 5. SEE STD PLAN I-40.20-00 FOR INLET PROTECTION DETAIL. 6. SEE STD PLAN I-30.15-00 FOR SILT FENCE DETAIL. 7. SEE STD PLAN I-30.20-00 FOR SILT FENCE PLACEMENT AT CULVERT ENDS DETAIL. 8. SEE 'TEMPORARY CATCH BASIN TYPE 1 SPECIAL PROVISIONS. 9. SEE 'TEMPORARY PIPE' SPECIAL PROVISIONS.
EC4-4/1	LM 123+25 (163.5 RT) TO LM 243+58 (164.3 RT)								45			3	
STAGE TOTAL		0	0	0	0	0	1,006	0	0	45	12		

DESIGNED BY	R. CUSHMAN					REGION NO.	STATE	FED. AID PROJ. NO.					
ENTERED BY	C. Buitrago					10	WASH						
CHECKED BY	P. Johannessen					JOB NUMBER							
PROJ. ENGR.	M. Moini					CONTRACT NO.							
REGION ADM.	L. Eng												
		DATE	DATE	REVISION	BY								



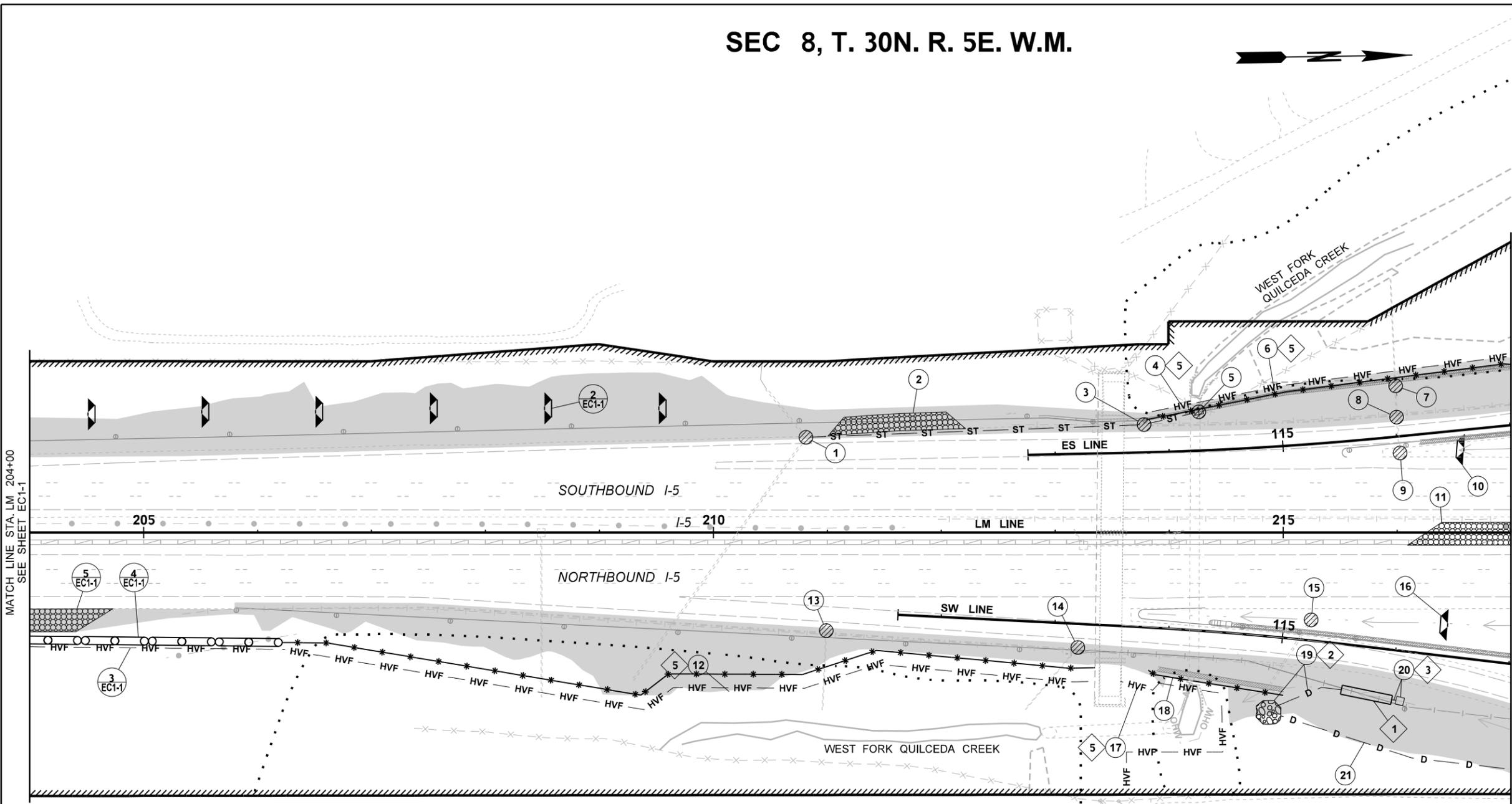
I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	QEC4-1
QUANTITY TABULATION - TEMPORARY EROSION AND SEDIMENTATION CONTROL - STAGE 4	SHEET OF SHEETS

SEC 8, T. 30N. R. 5E. W.M.



- CONSTRUCTION NOTES:**
- 1 TEMPORARY STORMWATER TREATMENT TANKS SHALL REMAIN IN USE UNTIL CONSTRUCTION IS COMPLETED AND VEGETATION IS ESTABLISHED IN CABS AND INFILTRATION PONDS.
 - 2 PUMP OR GRAVITY DRAIN EXISTING DRAINAGE TO TEMPORARY OUTFALL.
 - 3 PUMP CONSTRUCTION STORMWATER TO TEMPORARY CONSTRUCTION TANKS. PUMP LOCATION AND TYPE TO BE DETERMINED BY CONTRACTOR AND TANK SUPPLIER. SEE SHEET TD1 FOR PUMP DETAIL AND SIZING.
 - 4 PROTECT INFILTRATION POND AREAS DURING CONSTRUCTION.
 - 5 BMP TO REMAIN IN PLACE UNTIL MITIGATION PLANTING IS COMPLETED.
 - 6 REVISED LOCATION FROM PREVIOUS CONSTRUCTION STAGE.
 - 7 LEVEL SPREADER OUTFALL.
 - 8 RESTORE EMBANKMENT VEGETATION AFTER STAGE OF CONSTRUCTION IS COMPLETE.

- GENERAL NOTES:**
1. SEE SHEETS EMN1 THROUGH EMN5 FOR REGULATORY COMPLIANCE REQUIREMENTS FOR ALL WORK.

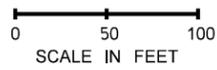


MATCH LINE STA. LM 204+00
SEE SHEET EC1-1

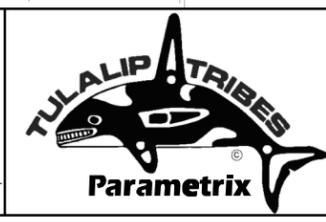
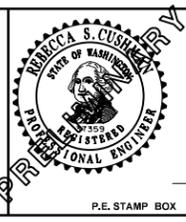
MATCH LINE STA. LM 217+00
SEE SHEET EC1-3

LEGEND

— HVF — HVF —	HIGH VISIBILITY FENCE	①	QUANTITY TABULATION NOTE
* * * * *	SILT FENCE	②	QUANTITY TABULATION NOTE CONTINUED
⊗	INLET PROTECTION		
- - - - -	EXISTING DITCH		
▲	CHECK DAM		
○ ○ ○ ○ ○	WATTLE		
- D - D -	TEMPORARY DRAIN PIPE		
.....	BUFFER		
▨	STABILIZED CONSTRUCTION ENTRANCE		
■	WORK AREA		

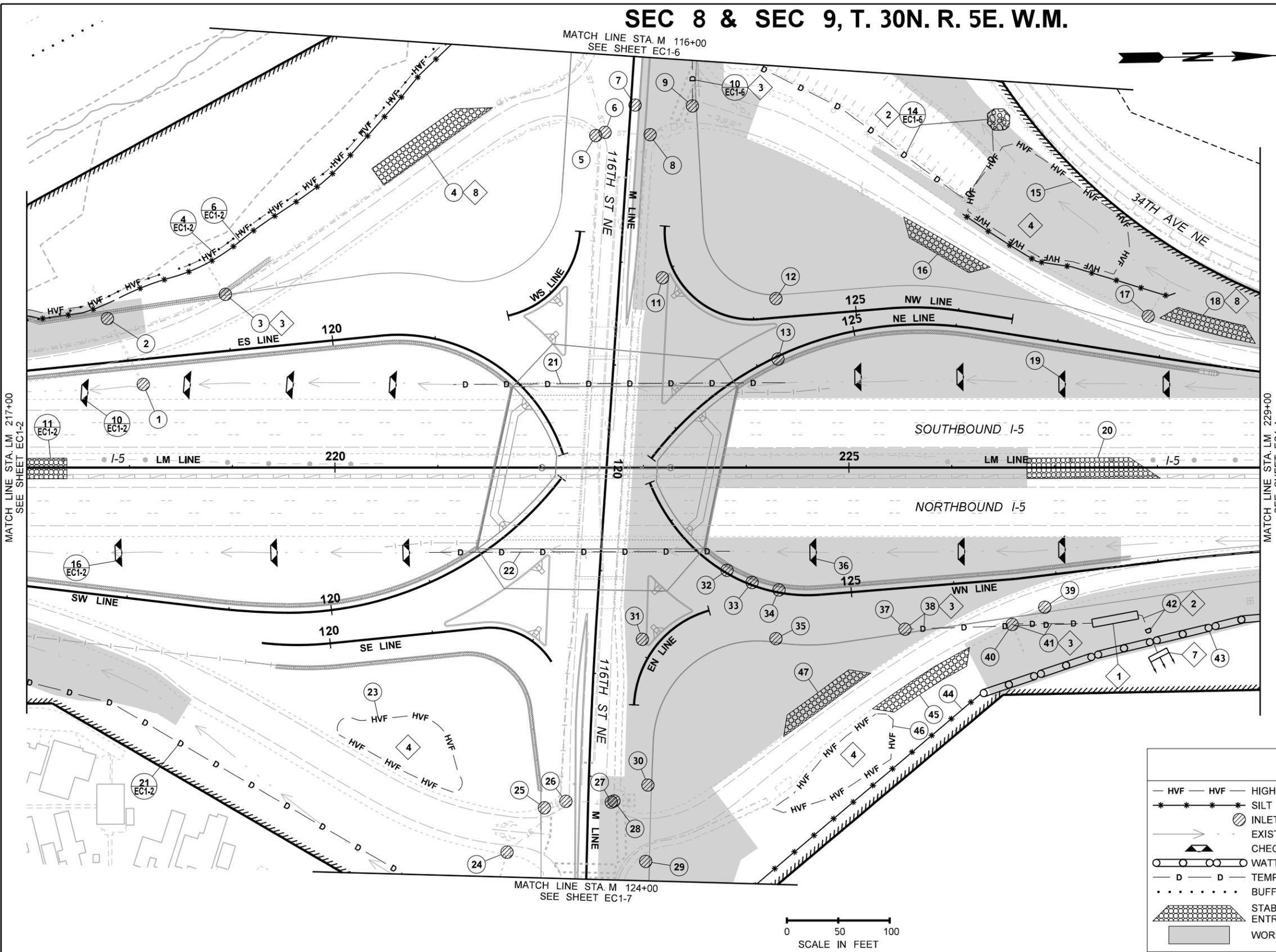


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DATE	10/26/2012	JOB NUMBER		FED.AID PROJ.NO.	
PLOTTED BY	purgabut	CONTRACT NO.		LOCATION NO.	
DESIGNED BY	R. CUSHMAN				
ENTERED BY	B. PURGANAN				
CHECKED BY	P. JOHANNESSEN				
PROJ. ENGR.					
REGIONAL ADM.		REVISION	DATE	BY	



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 2
TESC PLAN - STAGE 1		PLAN REF NO EC1-2
		SHEET OF SHEETS

SEC 8 & SEC 9, T. 30N. R. 5E. W.M.



- CONSTRUCTION NOTES:**
- 1 TEMPORARY STORMWATER TREATMENT TANKS SHALL REMAIN IN USE UNTIL CONSTRUCTION IS COMPLETED AND VEGETATION IS ESTABLISHED IN CABS AND INFILTRATION PONDS.
 - 2 PUMP OR GRAVITY DRAIN EXISTING DRAINAGE TO TEMPORARY OUTFALL.
 - 3 PUMP CONSTRUCTION STORMWATER TO TEMPORARY CONSTRUCTION TREATMENT TANKS. PUMP LOCATION AND TYPE TO BE DETERMINED BY CONTRACTOR AND TANK SUPPLIER. SEE SHEET TD1 FOR PUMP DETAIL AND SIZING.
 - 4 PROTECT INFILTRATION POND AREAS DURING CONSTRUCTION.
 - 5 BMP TO REMAIN IN PLACE UNTIL MITIGATION PLANTING IS COMPLETED.
 - 6 REVISED LOCATION FROM PREVIOUS CONSTRUCTION STAGE.
 - 7 LEVEL SPREADER OUTFALL.
 - 8 RESTORE EMBANKMENT VEGETATION AFTER STAGE OF CONSTRUCTION IS COMPLETE.

- GENERAL NOTES:**
1. SEE SHEETS EMN1 THROUGH EMN5 FOR REGULATORY COMPLIANCE REQUIREMENTS FOR ALL WORK.

LEGEND

— HVF — HVF —	HIGH VISIBILITY FENCE	①	QUANTITY TABULATION NOTE
* * * * *	SILT FENCE	②	QUANTITY TABULATION NOTE CONTINUED
○	INLET PROTECTION		
— — — — —	EXISTING DITCH		
▲	CHECK DAM		
○ ○ ○ ○ ○	WATTLE		
— D — D —	TEMPORARY DRAIN PIPE		
.....	BUFFER		
▨	STABILIZED CONSTRUCTION ENTRANCE		
▨	WORK AREA		

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DATE	10/25/2012	STATE	WASH
PLOTTED BY	purgabut	JOB NUMBER	
DESIGNED BY	R. CUSHMAN	CONTRACT NO.	
ENTERED BY	B. PURGANAN	LOCATION NO.	
CHECKED BY	P. JOHANNESSEN		
PROJ. ENGR.			
REGIONAL ADM.		REVISION	DATE BY

FED.AID PROJ.NO.

REBECCA S. CUSHMAN
REGISTERED PROFESSIONAL ENGINEER

DATE

P.E. STAMP BOX



Plot 3

PLAN REF NO

I-5

116TH ST NE

INTERCHANGE IMPROVEMENTS

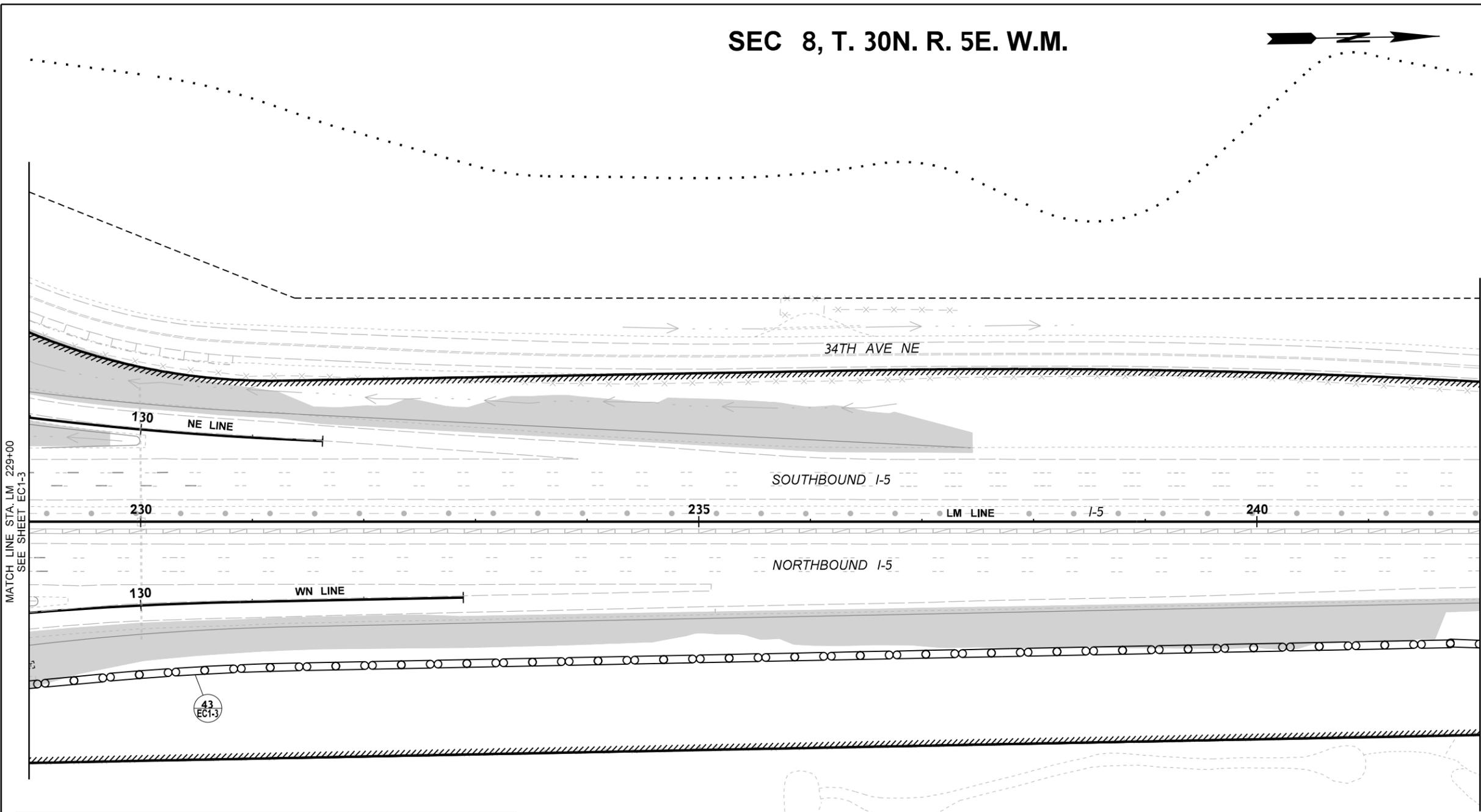
SHEET

OF

SHEETS

TESC PLAN - STAGE 1

SEC 8, T. 30N. R. 5E. W.M.



- CONSTRUCTION NOTES:**
- 1 TEMPORARY STORMWATER TREATMENT TANKS SHALL REMAIN IN USE UNTIL CONSTRUCTION IS COMPLETED AND VEGETATION IS ESTABLISHED IN CABS AND INFILTRATION PONDS.
 - 2 PUMP OR GRAVITY DRAIN EXISTING DRAINAGE TO TEMPORARY OUTFALL.
 - 3 PUMP CONSTRUCTION STORMWATER TO TEMPORARY CONSTRUCTION TREATMENT TANKS. PUMP LOCATION AND TYPE TO BE DETERMINED BY CONTRACTOR AND TANK SUPPLIER. SEE SHEET TD1 FOR PUMP DETAIL AND SIZING.
 - 4 PROTECT INFILTRATION POND AREAS DURING CONSTRUCTION.
 - 5 BMP TO REMAIN IN PLACE UNTIL MITIGATION PLANTING IS COMPLETED.
 - 6 REVISED LOCATION FROM PREVIOUS CONSTRUCTION STAGE.
 - 7 LEVEL SPREADER OUTFALL.
 - 8 RESTORE EMBANKMENT VEGETATION AFTER STAGE OF CONSTRUCTION IS COMPLETE.

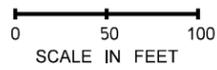
- GENERAL NOTES:**
1. SEE SHEETS EMN1 THROUGH EMN5 FOR REGULATORY COMPLIANCE REQUIREMENTS FOR ALL WORK.

MATCH LINE STA. LM 229+00
SEE SHEET EC1-3

MATCH LINE STA. LM 242+00
SEE SHEET EC1-5

LEGEND

- | | |
|---|--|
| <ul style="list-style-type: none"> — HVF — HVF — HIGH VISIBILITY FENCE * * * * * SILT FENCE ⊗ INLET PROTECTION - - - - - EXISTING DITCH ▲ CHECK DAM ○ ○ ○ ○ ○ WATTLE - D - D - TEMPORARY DRAIN PIPE · · · · · BUFFER ▨ STABILIZED CONSTRUCTION ENTRANCE ■ WORK AREA | <ul style="list-style-type: none"> ① QUANTITY TABULATION NOTE ② QUANTITY TABULATION NOTE CONTINUED |
|---|--|



FILE NAME \\parametrix.com\pmx\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svc\CADD\PS&ESheets\BL1598033_PS_EC1.dgn			
TIME	3:17:17 PM	REGION NO.	STATE
DATE	10/24/2012	10	WASH
PLOTTED BY	purgabut	JOB NUMBER	
DESIGNED BY	R. CUSHMAN	CONTRACT NO.	LOCATION NO.
ENTERED BY	B. PURGANAN		
CHECKED BY	P. JOHANNESSEN		
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

		<p>I-5</p> <p>116TH ST NE</p> <p>INTERCHANGE IMPROVEMENTS</p> <hr/> <p>TESC PLAN - STAGE 1</p>	<p>Plot 4</p> <p>PLAN REF NO</p> <p>EC1-4</p> <p>SHEET</p> <p>OF</p> <p>SHEETS</p>
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SEC 8 & SEC 5, T. 30N. R. 5E. W.M.

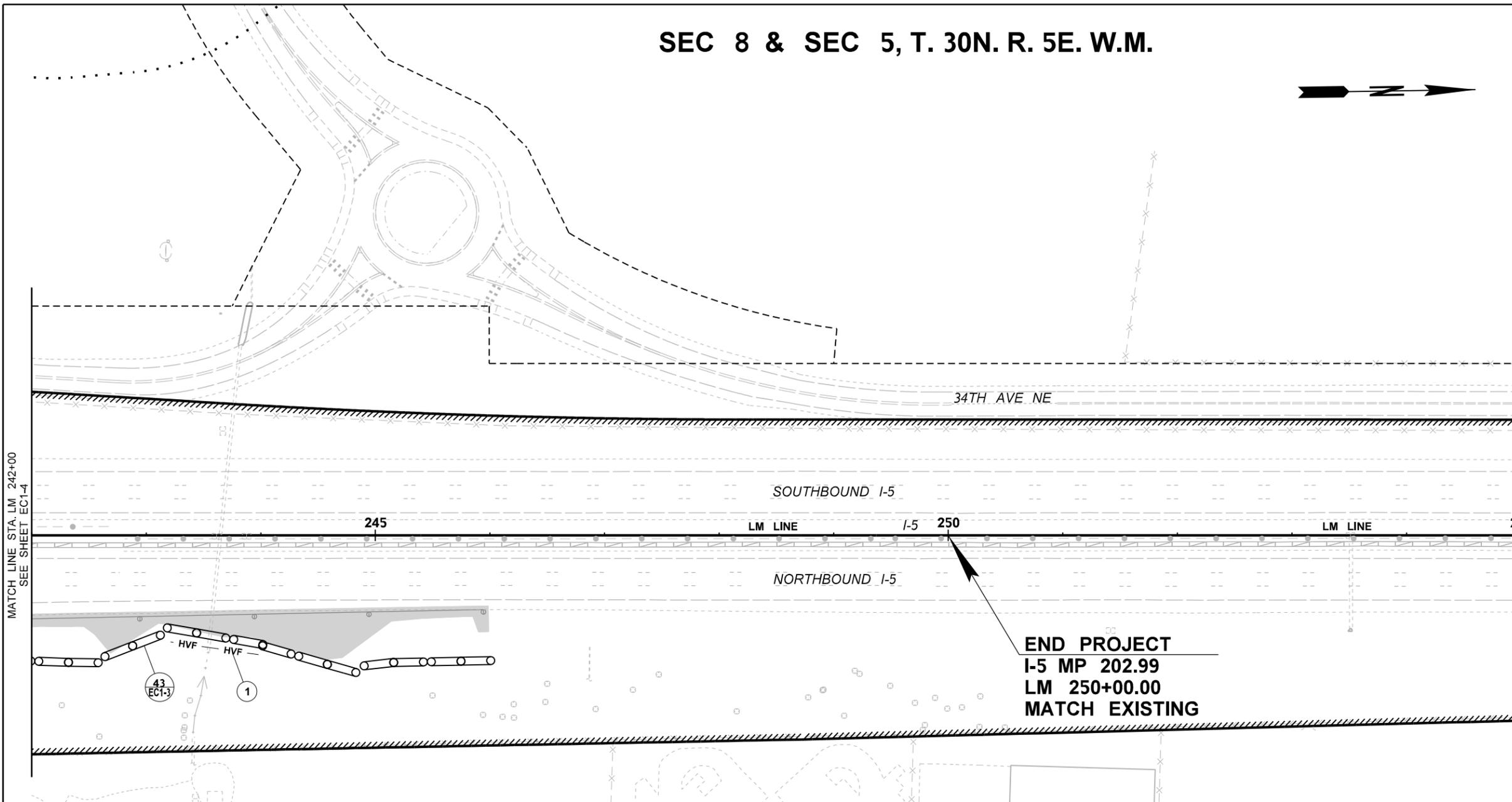


CONSTRUCTION NOTES:

- 1 TEMPORARY STORMWATER TREATMENT TANKS SHALL REMAIN IN USE UNTIL CONSTRUCTION IS COMPLETED AND VEGETATION IS ESTABLISHED IN CABS AND INFILTRATION PONDS.
- 2 PUMP OR GRAVITY DRAIN EXISTING DRAINAGE TO TEMPORARY OUTFALL.
- 3 PUMP CONSTRUCTION STORMWATER TO TEMPORARY CONSTRUCTION TREATMENT TANKS. PUMP LOCATION AND TYPE TO BE DETERMINED BY CONTRACTOR AND TANK SUPPLIER. SEE SHEET TD1 FOR PUMP DETAIL AND SIZING.
- 4 PROTECT INFILTRATION POND AREAS DURING CONSTRUCTION.
- 5 BMP TO REMAIN IN PLACE UNTIL MITIGATION PLANTING IS COMPLETED.
- 6 REVISED LOCATION FROM PREVIOUS CONSTRUCTION STAGE.
- 7 LEVEL SPREADER OUTFALL.
- 8 RESTORE EMBANKMENT VEGETATION AFTER STAGE OF CONSTRUCTION IS COMPLETE.

GENERAL NOTES:

1. SEE SHEETS EMN1 THROUGH EMN5 FOR REGULATORY COMPLIANCE REQUIREMENTS FOR ALL WORK.

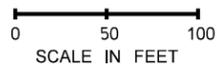


MATCH LINE STA. LM 242+00
SEE SHEET EC1-4

END PROJECT
I-5 MP 202.99
LM 250+00.00
MATCH EXISTING

LEGEND

- HVF — HVF — HIGH VISIBILITY FENCE
 - * * * * * SILT FENCE
 - ⊗ INLET PROTECTION
 - - - - - EXISTING DITCH
 - ▲ CHECK DAM
 - ○ ○ ○ ○ WATTLE
 - D - D - TEMPORARY DRAIN PIPE
 - BUFFER
 - ▨ STABILIZED CONSTRUCTION ENTRANCE
 - ▭ WORK AREA
- ① QUANTITY TABULATION NOTE
 - ② EC1-1 QUANTITY TABULATION NOTE CONTINUED



FILE NAME \\parametrix.com\pmx\Bell\Projects\Clients\1598-Tulalip Tribes\1598-033-116thPh3199Svcs\CADD\PS&ESheets\BL1598033_PS_EC1.dgn							I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 5
TIME 3:17:34 PM	DATE 10/24/2012	REGION NO. 10	STATE WASH					PLAN REF NO EC1-5
PLOTTED BY purgabut	DESIGNED BY R. CUSHMAN	JOB NUMBER		CONTRACT NO.		LOCATION NO.	SHEET	OF SHEETS
ENTERED BY B. PURGANAN	CHECKED BY P. JOHANNESSEN	REVISION		DATE	BY	TESC PLAN - STAGE 1		
PROJ. ENGR.	REGIONAL ADM.			P.E. STAMP BOX	DATE	P.E. STAMP BOX	DATE	

SEC 8, T. 30N. R. 5E. W.M.

CONSTRUCTION NOTES:

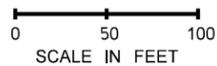
- 1 TEMPORARY STORMWATER TREATMENT TANKS. TANKS SHALL REMAIN IN USE UNTIL CONSTRUCTION IS COMPLETED AND VEGETATION IS ESTABLISHED IN CABS AND INFILTRATION PONDS.
- 2 PUMP OR GRAVITY DRAIN EXISTING DRAINAGE TO TEMPORARY OUTFALL.
- 3 PUMP CONSTRUCTION STORMWATER TO TEMPORARY CONSTRUCTION TREATMENT TANKS. PUMP LOCATION AND TYPE TO BE DETERMINED BY CONTRACTOR AND TANK SUPPLIER. SEE SHEET TD1 FOR PUMP DETAIL AND SIZING.
- 4 PROTECT INFILTRATION POND AREAS DURING CONSTRUCTION.
- 5 BMP TO REMAIN IN PLACE UNTIL MITIGATION PLANTING IS COMPLETED.
- 6 REVISED LOCATION FROM PREVIOUS CONSTRUCTION STAGE.
- 7 LEVEL SPREADER OUTFALL.
- 8 RESTORE EMBANKMENT VEGETATION AFTER STAGE OF CONSTRUCTION IS COMPLETE.

GENERAL NOTES:

1. SEE SHEETS EMN1 THROUGH EMN5 FOR REGULATORY COMPLIANCE REQUIREMENTS FOR ALL WORK.

**BEGIN CONSTRUCTION
M 106+49.00
MATCH EXISTING**

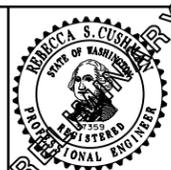
LEGEND	
— HVF — HVF —	HIGH VISIBILITY FENCE
* * *	SILT FENCE
⊗	INLET PROTECTION
— > —	EXISTING DITCH
▲	CHECK DAM
○ ○ ○	WATTLE
— D — D —	TEMPORARY DRAIN PIPE
.....	BUFFER
▨	STABILIZED CONSTRUCTION ENTRANCE
■	WORK AREA
①	QUANTITY TABULATION NOTE
② EC1-1	QUANTITY TABULATION NOTE CONTINUED



FILE NAME	\\parametrix.com\pmx\BellProjects\Clients\1598-Tulalp Tribes\1598-033-116thPh\3199Svcs\CADD\PS&ESheets\BL1598033_PS_EC1.dgn			
TIME	11:33:00 AM			
DATE	10/25/2012			
PLOTTED BY	purgabut			
DESIGNED BY	R. CUSHMAN			
ENTERED BY	B. PURGANAN			
CHECKED BY	P. JOHANNESSEN			
PROJ. ENGR.				
REGIONAL ADM.	REVISION	DATE	BY	

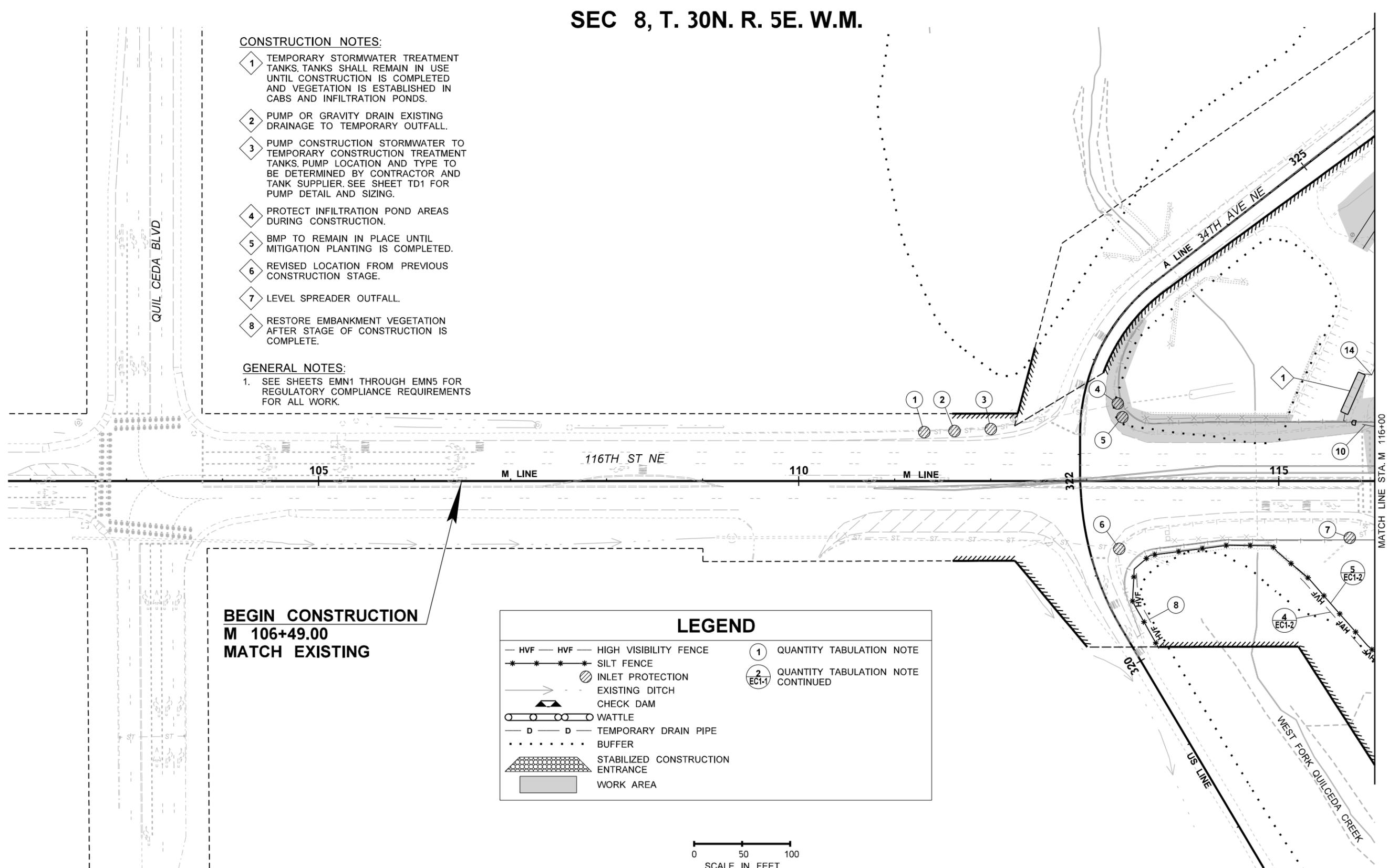
REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.	LOCATION NO.	

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



Plot 6
PLAN REF NO EC1-6
SHEET OF SHEETS

I-5 116TH ST NE INTERCHANGE IMPROVEMENTS
TESC PLAN - STAGE 1



MATCH LINE STA. M 116+00
SEE SHEET EC1-3

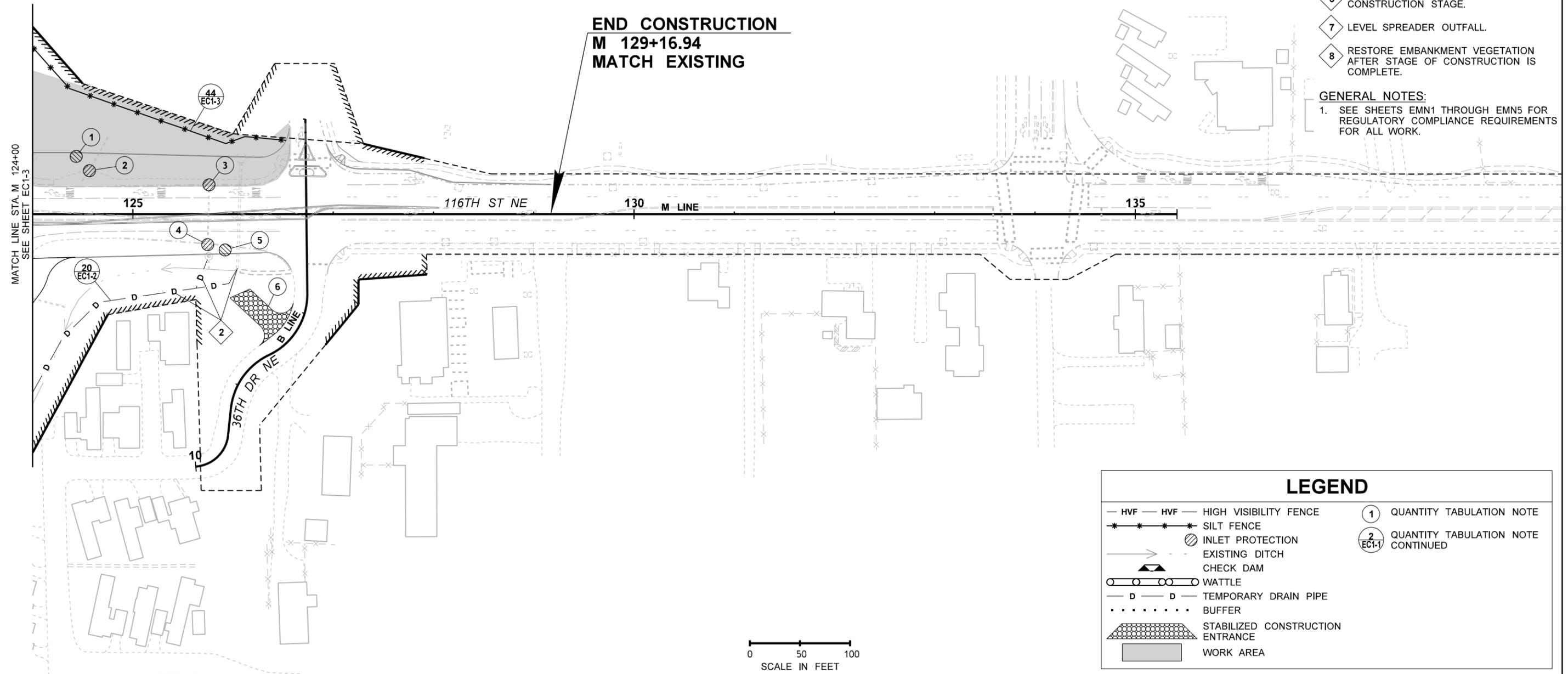
SEC 9, T. 30N. R. 5E. W.M.



- CONSTRUCTION NOTES:**
- 1 TEMPORARY STORMWATER TREATMENT TANKS SHALL REMAIN IN USE UNTIL CONSTRUCTION IS COMPLETED AND VEGETATION IS ESTABLISHED IN CABS AND INFILTRATION PONDS.
 - 2 PUMP OR GRAVITY DRAIN EXISTING DRAINAGE TO TEMPORARY OUTFALL.
 - 3 PUMP CONSTRUCTION STORMWATER TO TEMPORARY CONSTRUCTION TREATMENT TANKS. PUMP LOCATION AND TYPE TO BE DETERMINED BY CONTRACTOR AND TANK SUPPLIER. SEE SHEET TD1 FOR PUMP DETAIL AND SIZING.
 - 4 PROTECT INFILTRATION POND AREAS DURING CONSTRUCTION.
 - 5 BMP TO REMAIN IN PLACE UNTIL MITIGATION PLANTING IS COMPLETED.
 - 6 REVISED LOCATION FROM PREVIOUS CONSTRUCTION STAGE.
 - 7 LEVEL SPREADER OUTFALL.
 - 8 RESTORE EMBANKMENT VEGETATION AFTER STAGE OF CONSTRUCTION IS COMPLETE.

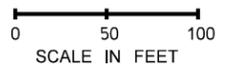
- GENERAL NOTES:**
1. SEE SHEETS EMN1 THROUGH EMN5 FOR REGULATORY COMPLIANCE REQUIREMENTS FOR ALL WORK.

**END CONSTRUCTION
M 129+16.94
MATCH EXISTING**



LEGEND

— HVF — HVF —	HIGH VISIBILITY FENCE	①	QUANTITY TABULATION NOTE
— * * * * *	SILT FENCE	②	QUANTITY TABULATION NOTE CONTINUED
— ⊗ —	INLET PROTECTION	EC1-1	
— > —	EXISTING DITCH		
— ▴ —	CHECK DAM		
— ○ — ○ — ○ —	WATTLE		
— D — D —	TEMPORARY DRAIN PIPE		
— · · · · ·	BUFFER		
— [Hatched Box] —	STABILIZED CONSTRUCTION ENTRANCE		
— [Grey Box] —	WORK AREA		



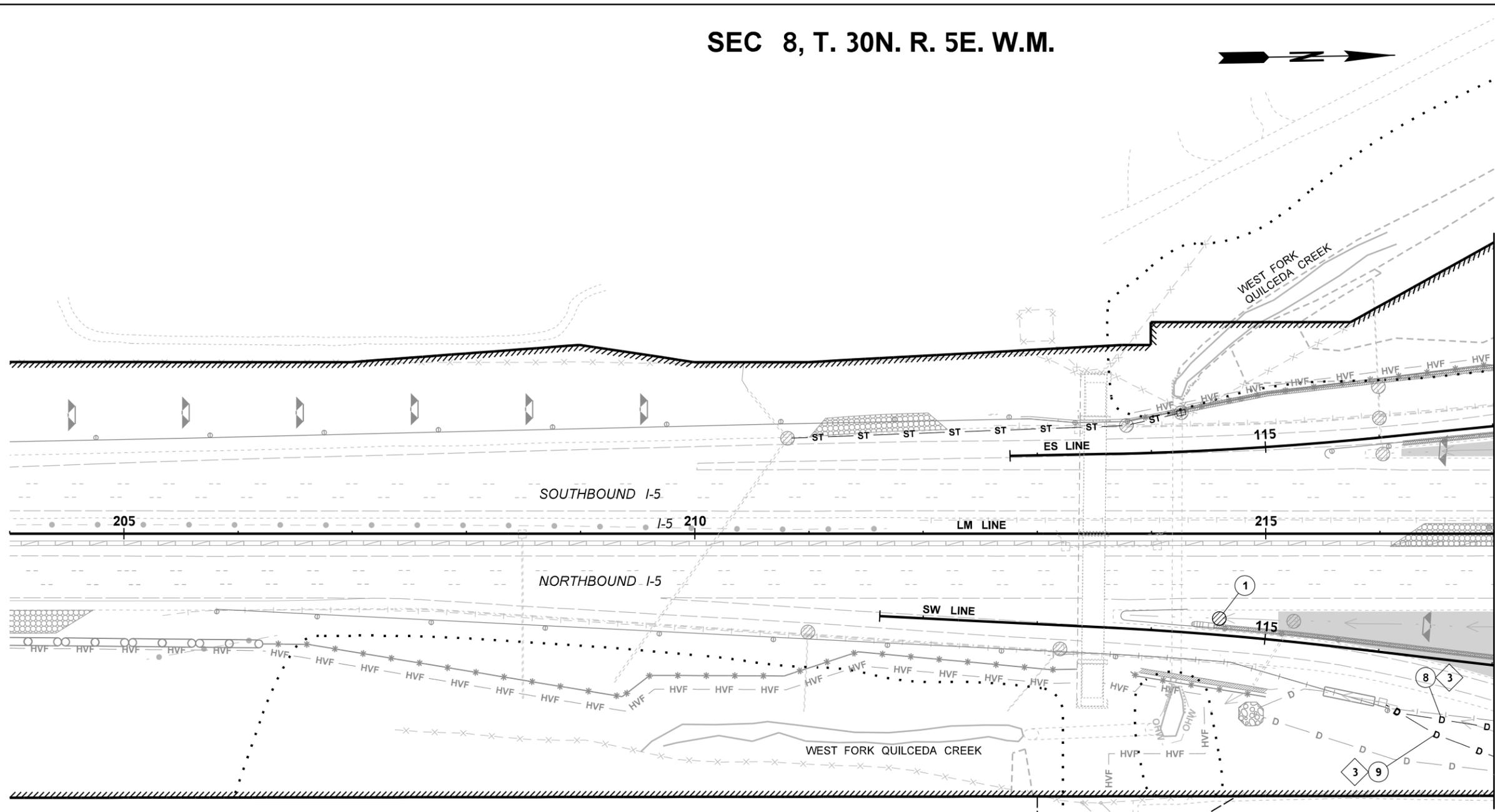
FILE NAME: \\paramatrix.com\pmx\Bell\Projects\Clients\1598-Tulalp Tribes\554-1598-033-116thPh\3199Svcs\CADD\PS&ESheets\BL1598033_PS_EC1.dgn								I-5 116TH ST NE INTERCHANGE IMPROVEMENTS TESC PLAN - STAGE 1		Plot 7	
TIME: 3:18:00 PM		REGION NO.: 10								STATE: WASH	
DATE: 10/24/2012		JOB NUMBER:		CONTRACT NO.:		LOCATION NO.:		SHEET		OF	
PLOTTED BY: purgabut		DESIGNED BY: R. CUSHMAN		ENTERED BY: B. PURGANAN		CHECKED BY: P. JOHANNESSEN		PROJ. ENGR.		SHEETS	
REGIONAL ADM.		REVISION		DATE		BY		P.E. STAMP BOX		DATE	

SEC 8, T. 30N. R. 5E. W.M.



- CONSTRUCTION NOTES:**
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 - 5 BMP TO REMAIN IN PLACE UNTIL MITIGATION PLANTING IS COMPLETED.
 - 6 REVISED LOCATION FROM PREVIOUS CONSTRUCTION STAGE.
 - 7 LEVEL SPREADER OUTFALL.
 - 8 RESTORE EMBANKMENT VEGETATION AFTER STAGE OF CONSTRUCTION IS COMPLETE.

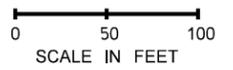
- GENERAL NOTES:**
1. SEE SHEETS EMN1 THROUGH EMN5 FOR REGULATORY COMPLIANCE REQUIREMENTS FOR ALL WORK.



MATCH LINE STA. LM 217+00
SEE SHEET EC2-2

LEGEND

— HVF — HVF —	HIGH VISIBILITY FENCE	①	QUANTITY TABULATION NOTE
* * * * *	SILT FENCE	②	QUANTITY TABULATION NOTE
⊗	INLET PROTECTION	EC1-1	CONTINUED
— > —	EXISTING DITCH		
▲	CHECK DAM		
○ ○ ○ ○ ○	WATTLE		
— D — D —	TEMPORARY DRAIN PIPE		
.....	BUFFER		
▨	STABILIZED CONSTRUCTION ENTRANCE		
■	WORK AREA		

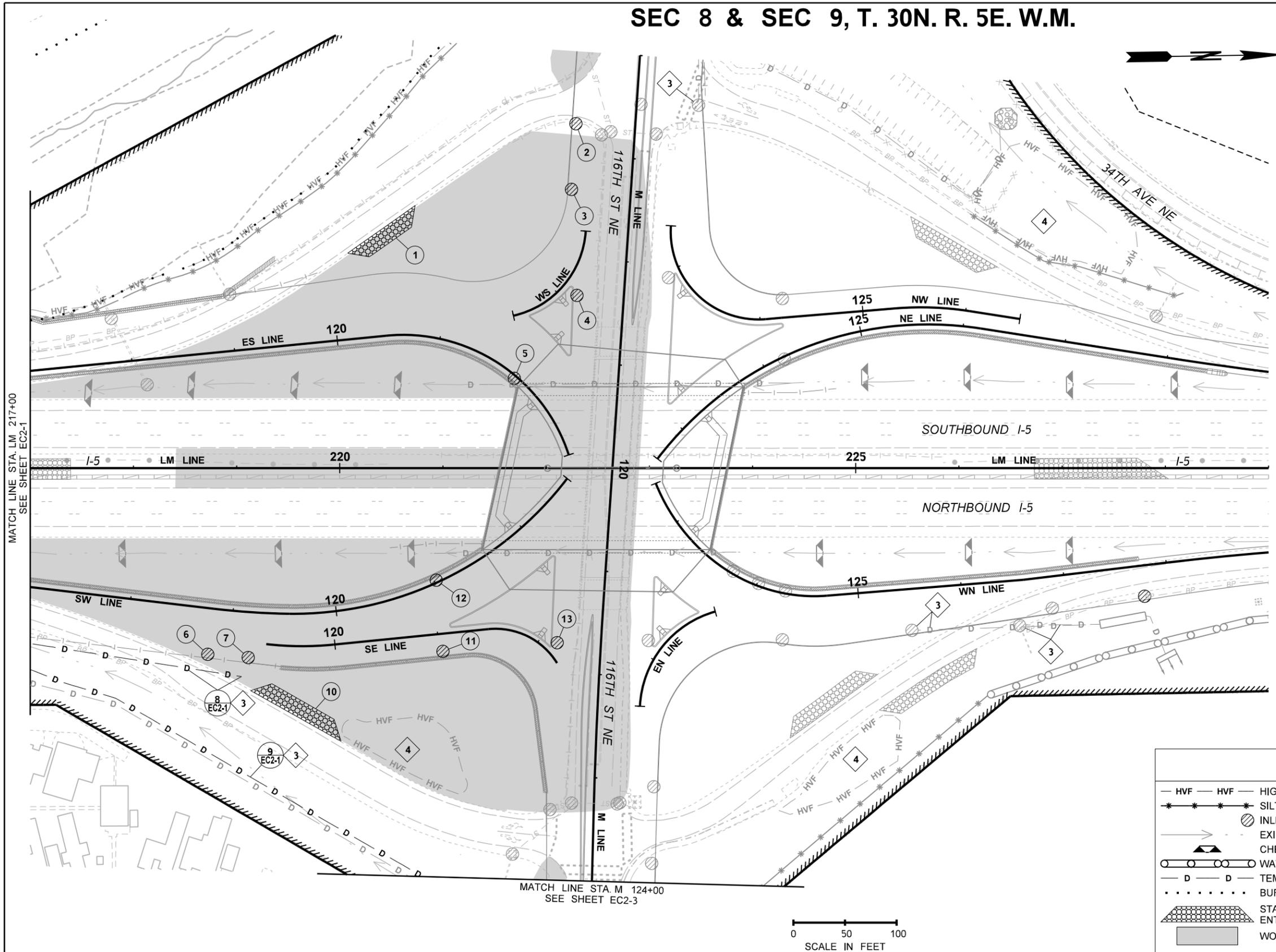


FILE NAME \\parametrix.com\pmx\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\PS&ESheets\BL1598033_PS_EC2.dgn		REGION NO. STATE		FED.AID PROJ.NO.		Plot 2	
TIME 10:13:23 AM		10	WASH			PLAN REF NO EC2-1	
DATE 10/26/2012		JOB NUMBER				SHEET	
PLOTTED BY purgabut		CONTRACT NO.		LOCATION NO.		OF	
DESIGNED BY R. CUSHMAN						SHEETS	
ENTERED BY B. PURGANAN							
CHECKED BY P. JOHANNESSEN							
PROJ. ENGR.							
REGIONAL ADM.	REVISION	DATE	BY				

REBECCA S. CUSHMAN
REGISTERED PROFESSIONAL ENGINEER

TULALIP TRIBES
Parametrix

SEC 8 & SEC 9, T. 30N. R. 5E. W.M.

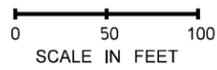


- CONSTRUCTION NOTES:**
- 1 TEMPORARY STORMWATER TREATMENT TANKS SHALL REMAIN IN USE UNTIL CONSTRUCTION IS COMPLETED AND VEGETATION IS ESTABLISHED IN CABS AND INFILTRATION PONDS.
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 - 5 BMP TO REMAIN IN PLACE UNTIL MITIGATION PLANTING IS COMPLETED.
 - 6 REVISED LOCATION FROM PREVIOUS CONSTRUCTION STAGE.
 - 7 LEVEL SPREADER OUTFALL.
 - 8 RESTORE EMBANKMENT VEGETATION AFTER STAGE OF CONSTRUCTION IS COMPLETE.

- GENERAL NOTES:**
1. SEE SHEETS EMN1 THROUGH EMN5 FOR REGULATORY COMPLIANCE REQUIREMENTS FOR ALL WORK.

MATCH LINE STA. LM 217+00
SEE SHEET EC2-1

MATCH LINE STA. M 124+00
SEE SHEET EC2-3



LEGEND

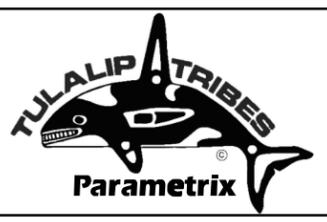
— HVF — HVF —	HIGH VISIBILITY FENCE	①	QUANTITY TABULATION NOTE
* * * * *	SILT FENCE	②	QUANTITY TABULATION NOTE
⊙	INLET PROTECTION	EC2-1	CONTINUED
→	EXISTING DITCH		
▲	CHECK DAM		
○ ○ ○ ○ ○	WATTLE		
— D — D —	TEMPORARY DRAIN PIPE		
.....	BUFFER		
▨	STABILIZED CONSTRUCTION ENTRANCE		
■	WORK AREA		

FILE NAME	\\parametrix.com\pmx\BellProjects\Clients\1598-Tulalip Tribes\1598-033-116thPh3199Svc\CADD\PS&ESheets\BL1598033_PS_EC2.dgn		
TIME	11:34:24 AM		
DATE	10/25/2012		
PLOTTED BY	purgabut		
DESIGNED BY	R. CUSHMAN		
ENTERED BY	B. PURGANAN		
CHECKED BY	P. JOHANNESSEN		
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

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

REBECCA S. CUSHMAN
REGISTERED PROFESSIONAL ENGINEER
STATE OF WASHINGTON
NO. 3555

DATE _____ P.E. STAMP BOX

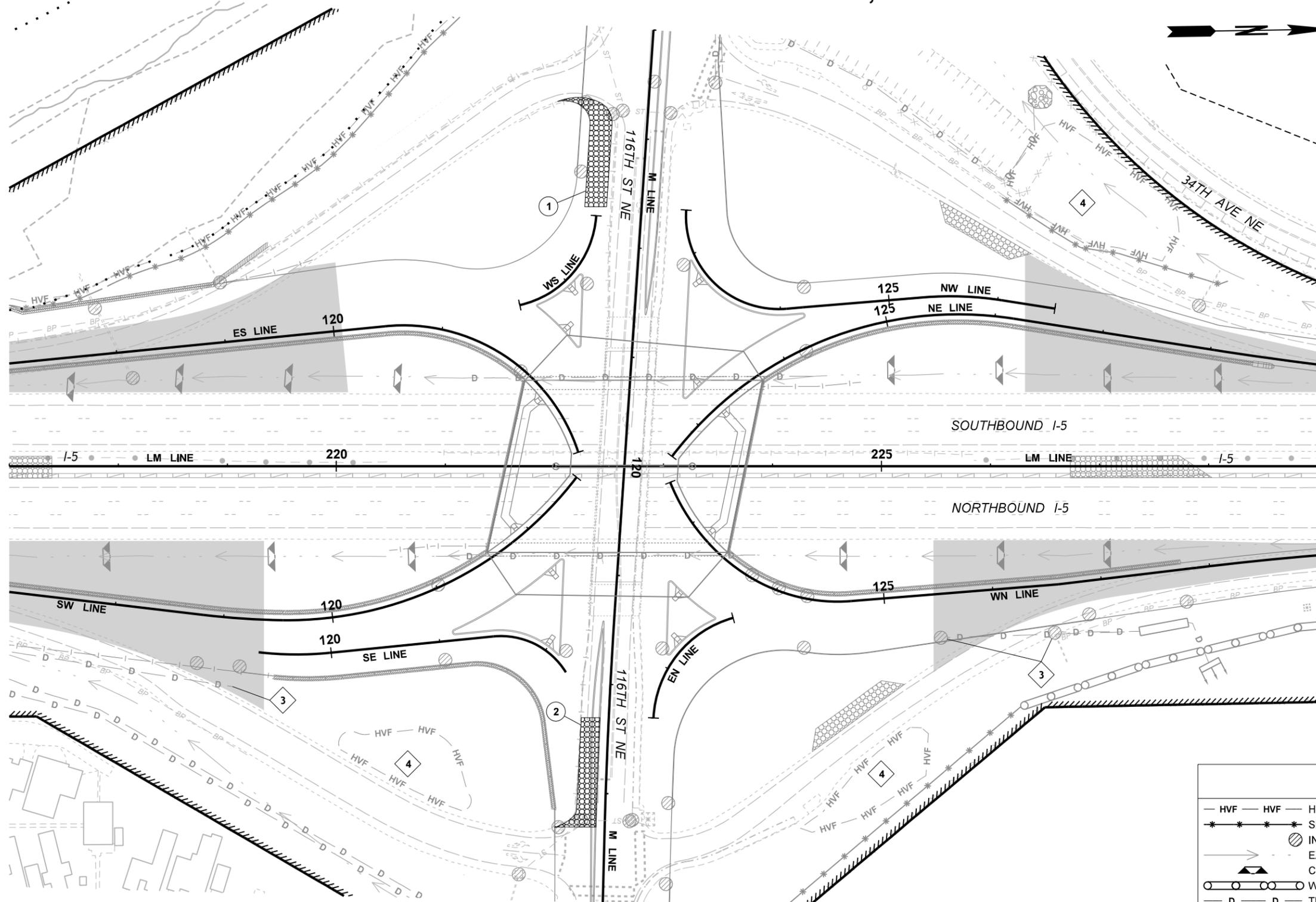


I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

TESC PLAN - STAGE 2

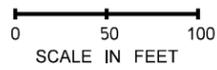
Plot 3
PLAN REF NO EC2-2
SHEET
OF
SHEETS

SEC 8 & SEC 9, T. 30N. R. 5E. W.M.



- CONSTRUCTION NOTES:**
- 1 TEMPORARY STORMWATER TREATMENT TANKS SHALL REMAIN IN USE UNTIL CONSTRUCTION IS COMPLETED AND VEGETATION IS ESTABLISHED IN CABS AND INFILTRATION PONDS.
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 - 6 REVISED LOCATION FROM PREVIOUS CONSTRUCTION STAGE.
 - 7 LEVEL SPREADER OUTFALL.
 - 8 RESTORE EMBANKMENT VEGETATION AFTER STAGE OF CONSTRUCTION IS COMPLETE.

- GENERAL NOTES:**
1. SEE SHEETS EMN1 THROUGH EMN5 FOR REGULATORY COMPLIANCE REQUIREMENTS FOR ALL WORK.



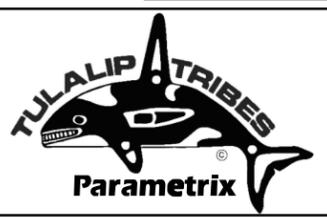
LEGEND

— HVF — HVF —	HIGH VISIBILITY FENCE	①	QUANTITY TABULATION NOTE
* * * * *	SILT FENCE	②	QUANTITY TABULATION NOTE CONTINUED
⊙	INLET PROTECTION		
→	EXISTING DITCH		
▲	CHECK DAM		
○ ○ ○ ○ ○	WATTLE		
- D - D -	TEMPORARY DRAIN PIPE		
.....	BUFFER		
▨	STABILIZED CONSTRUCTION ENTRANCE		
■	WORK AREA		

FILE NAME	\\parametrix.com\pmx\BellProjects\Clients\1598-Tulalip Tribes\1598-033-116thPh3199Svc\CADD\PS&ESheets\BL1598033_PS_EC3.dgn				
TIME	11:35:55 AM	REGION NO.	10	STATE	WASH
DATE	10/25/2012	JOB NUMBER		FED.AID PROJ.NO.	
PLOTTED BY	purgabut	CONTRACT NO.		LOCATION NO.	
DESIGNED BY	R. CUSHMAN				
ENTERED BY	B. PURGANAN				
CHECKED BY	P. JOHANNESSEN				
PROJ. ENGR.					
REGIONAL ADM.		REVISION	DATE	BY	

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

TESC PLAN - STAGE 3

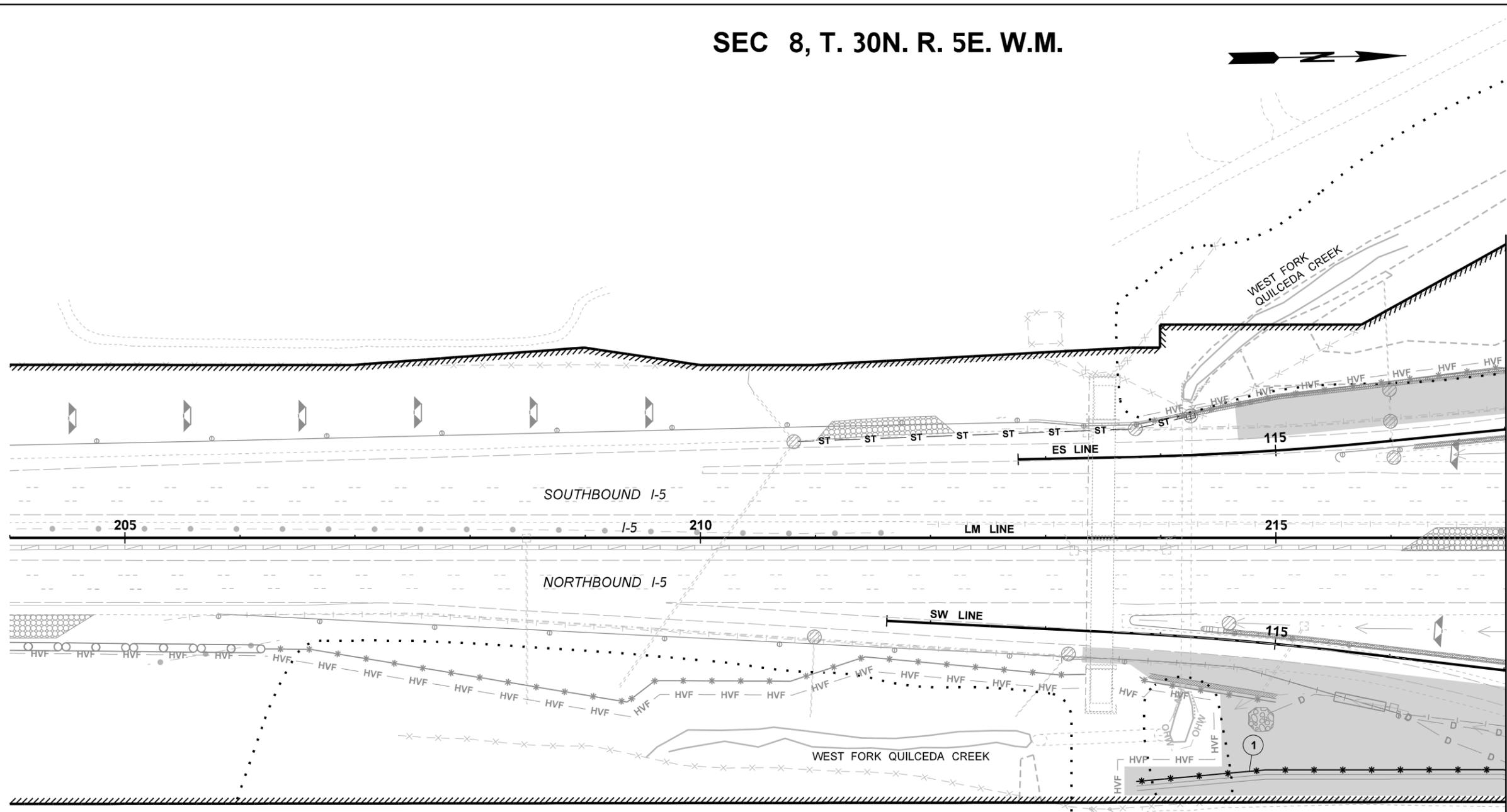
Plot 3
PLAN REF NO
EC3-1
SHEET
OF
SHEETS

SEC 8, T. 30N. R. 5E. W.M.



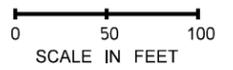
- CONSTRUCTION NOTES:**
- 1 TEMPORARY STORMWATER TREATMENT TANKS SHALL REMAIN IN USE UNTIL CONSTRUCTION IS COMPLETED AND VEGETATION IS ESTABLISHED IN CABS AND INFILTRATION PONDS.
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 - 5 BMP TO REMAIN IN PLACE UNTIL MITIGATION PLANTING IS COMPLETED.
 - 6 REVISED LOCATION FROM PREVIOUS CONSTRUCTION STAGE.
 - 7 LEVEL SPREADER OUTFALL.
 - 8 RESTORE EMBANKMENT VEGETATION AFTER STAGE OF CONSTRUCTION IS COMPLETE.

- GENERAL NOTES:**
1. SEE SHEETS EMN1 THROUGH EMN5 FOR REGULATORY COMPLIANCE REQUIREMENTS FOR ALL WORK.



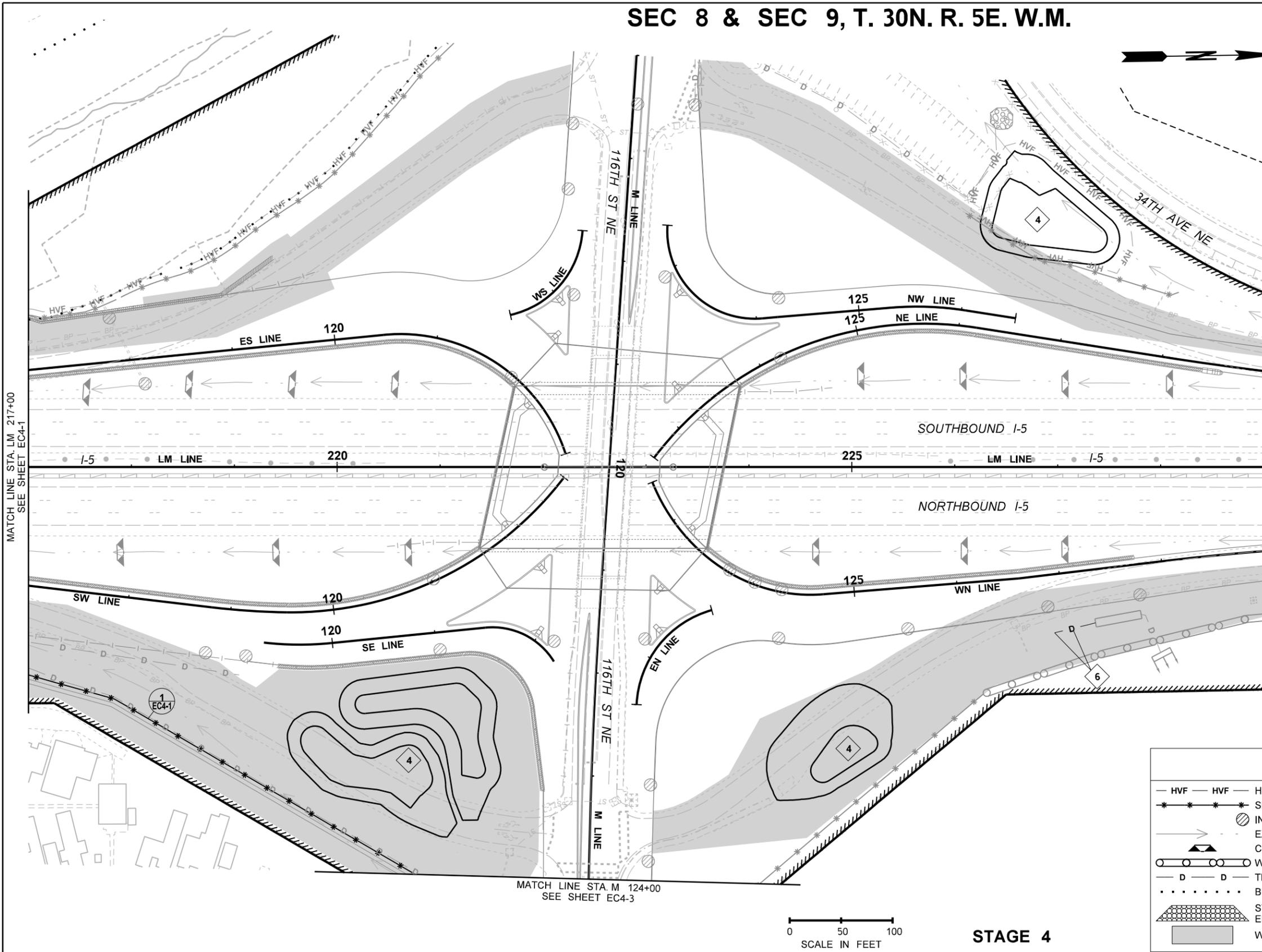
MATCH LINE STA. LM 217+00
SEE SHEET EC4-2

LEGEND	
— HVF — HVF —	HIGH VISIBILITY FENCE
* * * * *	SILT FENCE
⊗	INLET PROTECTION
- - - - -	EXISTING DITCH
▲	CHECK DAM
○ ○ ○ ○ ○	WATTLE
- D - D -	TEMPORARY DRAIN PIPE
.....	BUFFER
▨	STABILIZED CONSTRUCTION ENTRANCE
■	WORK AREA
①	QUANTITY TABULATION NOTE
②	QUANTITY TABULATION NOTE CONTINUED



FILE NAME	\\parametrix.com\pmx\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\PS&ESheets\BL1598033_PS_EC4.dgn						I-5 116TH ST NE INTERCHANGE IMPROVEMENTS TESC PLAN - STAGE 4	Plot 2
TIME	10:16:08 AM							PLAN REF NO
DATE	10/26/2012				REGION NO. STATE 10 WASH	JOB NUMBER	LOCATION NO.	EC4-1
PLOTTED BY	purgabut							CONTRACT NO.
DESIGNED BY	R. CUSHMAN				DATE	DATE	SHEETS	SHEETS
ENTERED BY	B. PURGANAN				P.E. STAMP BOX	P.E. STAMP BOX		
CHECKED BY	P. JOHANNESSEN				REVISION	DATE	BY	
PROJ. ENGR.								
REGIONAL ADM.								

SEC 8 & SEC 9, T. 30N. R. 5E. W.M.

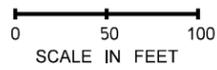


- CONSTRUCTION NOTES:**
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 - 8 RESTORE EMBANKMENT VEGETATION AFTER STAGE OF CONSTRUCTION IS COMPLETE.

- GENERAL NOTES:**
1. SEE SHEETS EMN1 THROUGH EMN5 FOR REGULATORY COMPLIANCE REQUIREMENTS FOR ALL WORK.

MATCH LINE STA. LM 217+00
SEE SHEET EC4-1

MATCH LINE STA. M 124+00
SEE SHEET EC4-3



STAGE 4

LEGEND

— HVF — HVF —	HIGH VISIBILITY FENCE	①	QUANTITY TABULATION NOTE
* * * * *	SILT FENCE	②	QUANTITY TABULATION NOTE CONTINUED
⊗	INLET PROTECTION		
→	EXISTING DITCH		
▲	CHECK DAM		
○ ○ ○ ○ ○	WATTLE		
— D — D —	TEMPORARY DRAIN PIPE		
.....	BUFFER		
▨	STABILIZED CONSTRUCTION ENTRANCE		
■	WORK AREA		

FILE NAME \\parametrix.com\pmx\Bell\Projects\Clients\1598-Tulalp Tribes\1598-033-116thPh\1999\svcs\CADD\PS&ESheets\BL1598033_PS_EC4.dgn			
TIME	11:37:16 AM	REGION NO.	10
DATE	10/25/2012	STATE	WASH
PLOTTED BY	purgabut	JOB NUMBER	
DESIGNED BY	R. CUSHMAN	CONTRACT NO.	
ENTERED BY	B. PURGANAN	LOCATION NO.	
CHECKED BY	P. JOHANNESSEN		
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

REBECCA S. CUSHMAN
REGISTERED PROFESSIONAL ENGINEER
STATE OF WASHINGTON
No. 19995

DATE _____ P.E. STAMP BOX



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

TESC PLAN - STAGE 4

Plot 3
PLAN REF NO
EC4-2
SHEET
OF
SHEETS

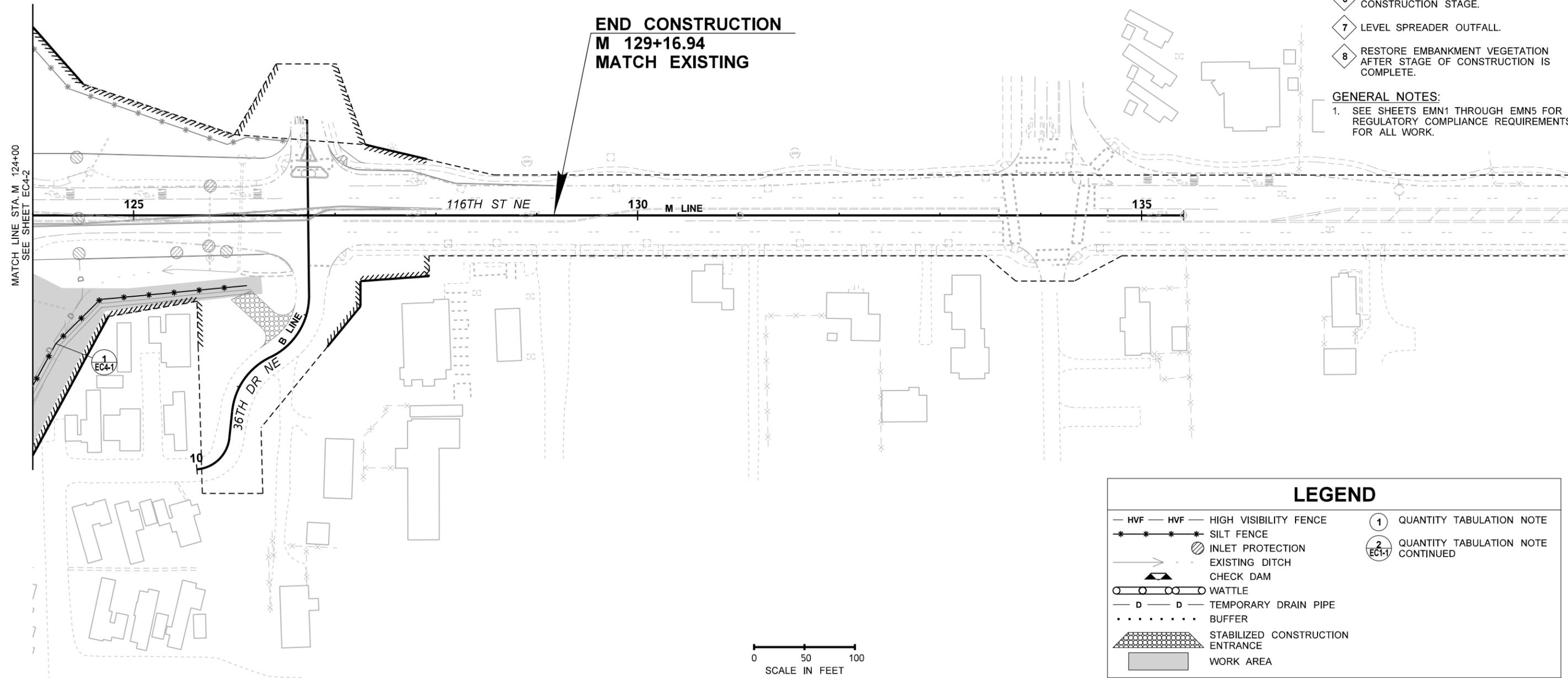
SEC 9, T. 30N. R. 5E. W.M.



- CONSTRUCTION NOTES:**
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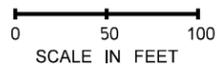
- GENERAL NOTES:**
1. SEE SHEETS EMN1 THROUGH EMN5 FOR REGULATORY COMPLIANCE REQUIREMENTS FOR ALL WORK.

**END CONSTRUCTION
M 129+16.94
MATCH EXISTING**



LEGEND

— HVF — HVF —	HIGH VISIBILITY FENCE	①	QUANTITY TABULATION NOTE
* * * * *	SILT FENCE	②	QUANTITY TABULATION NOTE CONTINUED
⊗	INLET PROTECTION	EC4-1	
- - - - -	EXISTING DITCH		
▲	CHECK DAM		
○ ○ ○ ○ ○	WATTLE		
- D - D -	TEMPORARY DRAIN PIPE		
.....	BUFFER		
▨	STABILIZED CONSTRUCTION ENTRANCE		
■	WORK AREA		



FILE NAME \\parametrix.com\pmx\Bell\Projects\Clients\1598-Tulalp Tribes\154-1598-033-116thPh\199Svcs\CADD\PS&ESheets\BL1598033_PS_EC4.dgn				REGION NO. STATE		FED.AID PROJ.NO.		Plot 7	
TIME 3:28:15 PM				10 WASH				PLAN REF NO EC4-3	
DATE 10/24/2012				JOB NUMBER				SHEET	
PLOTTED BY purgabut				CONTRACT NO.		LOCATION NO.		OF	
DESIGNED BY R. CUSHMAN								SHEETS	
ENTERED BY B. PURGANAN									
CHECKED BY P. JOHANNESSEN									
PROJ. ENGR.									
REGIONAL ADM.				REVISION		DATE BY			



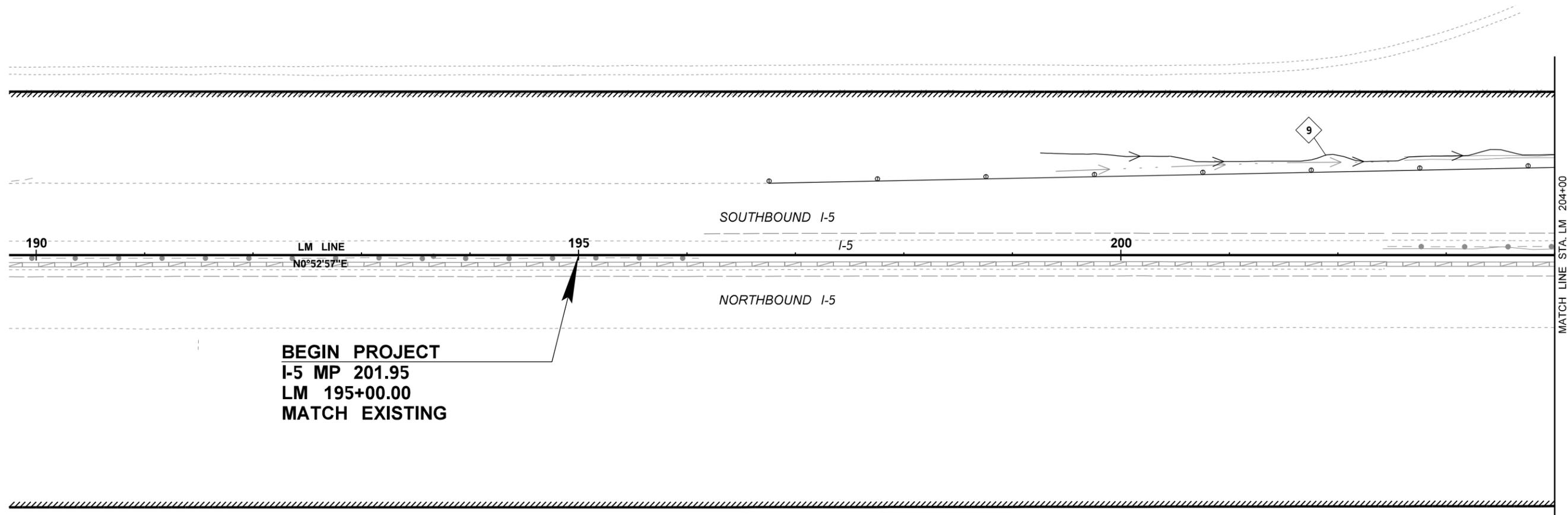
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
TESC PLAN - STAGE 4

STRUCTURE NOTES - DRAINAGE

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.		COMPOST BLANKET	SEEDING, FERTILIZING, AND MULCHING	TOPSOIL TYPE A	SOIL AMENDMENT		STRUCTURE EXCAVATION CLASS B INCL. HAUL	SHORING OR EXTRA EXCAVATION CLASS B	PLUGGING EXISTING PIPE	CONNECTION TO DRAINAGE STRUCTURE	ADJUST CATCH BASIN		LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN	CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE	CONSTRUCTION GEOTEXTILE FOR SOIL STABILIZATION	SEE GENERAL NOTES	GENERAL NOTES:
CODE	LOCATION & \ UNIT OF MEASURE >	S.Y.	ACRE	C.Y.	C.Y.		C.Y.	S.F.	EACH	EACH	EACH		EACH	S.Y.	S.Y.		
DR3-41	WN 124+62 (143.0 RT) TO WN 124+31 (39.7 LT)						228	1550							10		1. SEE "TOPSOIL TYPE A" SPECIAL PROVISIONS. 2. ADDITIONAL "TOPSOIL TYPE A" QUANTITIES PROVIDED IN LANDSCAPE PLANS. 3. SEE STD PLAN B-15.20-00 FOR MANHOLE 48 IN. DIAM. TYPE 2 DETAIL. 4. SEE "LOCKING SOLID METAL COVER AND FRAME FOR CATCH BASIN" SPECIAL PROVISIONS. 5. USE LOW SURVIVABILITY CLASS B FOR CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE. 6. USE RECTANGULAR SOLID METAL COVER (SEE STD PLAN B-30.20-01). 7. USE CIRCULAR FRAME (RING) AND COVER (SEE STD PLAN B-30.70-02). 8. ADDITIONAL "SEEDING, FERTILIZING, AND MULCHING" QUANTITIES ARE PROVIDED IN LANDSCAPING PLANS. 9. CAVFS, REFER TO SHEET DD4 FOR DETAILS. 10. CABS, REFER TO SHEET DD3 FOR DETAILS. 11. USE RECTANGULAR VANED GRATE(SEE STD PLAN B-30.30-00).
DR3-42	M 123+07 (60.2 LT) TO M 123+81 (60.2 LT)						48										
DR3-43	M 123+81 (60.2 LT) TO M 124+44 (60.2 LT)						46										
DR3-44	M 124.46 (40.8 RT) TO M 123+06 (104.1 RT)						234	1610							10		
DR3-45	LM 220+17 (222.1 RT) TO LM 221+43 (302.0 RT)		0.5		93									70		5, 8	
DR3-46	SE 119+82 (146.19 RT)													40		5	
DR4	LM 230+01 (105.2 RT)								1								
DR4-1	NE 129+95 (38.3 LT) TO NE 129+95 (45.1 LT)									1							
DR4-2	LM 230+01 (102.5 RT) TO LM 235+15 (88.3 RT)		0.3	480												1, 2, 8, 9	
DR6	M 113+32 (80.6 LT)										1						
DR6	M 113+37 (66.4 LT)										1						
DR6	M 113+34 (70.4 RT)										1						
DR6	M 115+74 (59.0 RT) TO M 115+47 (84.5 RT)								1								
DR7	M 124+57 (43.3 LT) TO M 124+75 (76.5 LT)										1		1			4, 7	
DR7	M 125+76 (29.2 LT)										1						
DR7	M 125+75 (30.3 RT) TO M 125+76 (41.8 RT)										1						
DR7	M 126+08 (55.9 LT)										1						
DR7	M 127+85 (38.6 LT)										1						
DR7	M 128+25 (26.7 LT)										1						
DR7-1	M 124+44 (60.2 LT) TO M 124+45 (5.9 RT)						53	320									
DR7-2	M 124+45 (5.9 RT) TO M 124+46 (40.8 RT)						58	270									
DR7-3	M 125+43 (36.9 RT) TO M 124+46 (40.8 RT)						62										
DR7-4	M 125+75 (30.3 RT) TO M 125+75 (48.9 RT)						33	150									
DR7-5	M 126+04 (53.8 RT) TO M 126+15 (61.8 RT)														10		
SHEET TOTAL			0.8	480	93		762	3900	2	1	7		1	110	30		
PROJECT TOTAL		115	1,011	3,518	5,519	4	2,989	13,819	1,058	3,913	175	0	22	104	489	1,908	0

DESIGNED BY	R. CUSHMAN	ENTERED BY	C. BUITRAGO	CHECKED BY	P. Johannessen	PROJ. ENGR.		REGION ADM.	
REGION NO.		STATE		FED. AID PROJ. NO.					
10		WASH							
JOB NUMBER		CONTRACT NO.							
									
									
								I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	
								STRUCTURE NOTES - DRAINAGE	
								DSN9 SHEET OF SHEETS	

SEC 8 & SEC 17, T. 30N. R. 5E. W.M.



BEGIN PROJECT
I-5 MP 201.95
LM 195+00.00
MATCH EXISTING

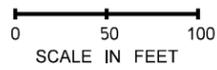
MATCH LINE STA. LM. 204+00
SEE SHEET DR2

LEGEND

	STRUCTURE NOTE CODE		CATCH BASIN TYPE 1
	STRUCTURE NOTE CODE CONTINUED		GRATE INLET TYPE 2
	STREAM EDGE		CATCH BASIN TYPE 2
	EXISTING DITCH BOTTOM		STORM SEWER MANHOLE
	EXISTING CATCH BASIN		SOIL BORING
	EXISTING SEWER MANHOLE		
	EXISTING SANITARY SEWER		
	EXISTING CULVERT		
	DITCH BOTTOM		
	STORM SEWER LINE		
	CULVERT		
	COMPOST AMENDED BIOFILTRATION SWALE (CABS)		
	COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS)		

CONSTRUCTION NOTES:

- REMOVE DRAINAGE STRUCTURE.
- PLUG EXISTING PIPE.
- REMOVE EXISTING PIPE.
- ADJUST CATCH BASIN TO FINISHED GRADE.
- CONNECT TO DRAINAGE STRUCTURE.
- EXTEND PIPE, MATCH EXISTING MATERIAL, DIAMETER AND SLOPE.
- REPLACE EXISTING GRATE WITH SOLID LOCKING LID.
- MOVE EXISTING STRUCTURE AND CONNECT TO PIPE EXTENSION.
- ROADSIDE DITCH, SEE SHEET RS1.



FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADDIPS&ESheets\BL1598033_PS_DR.dgn				FED.AID PROJ.NO.	
TIME 10:47:59 AM	REGION NO. 10	STATE WASH			
DATE 6/14/2012	JOB NUMBER				
PLOTTED BY purgabut	CONTRACT NO.		LOCATION NO.		
DESIGNED BY R. CUSHMAN	DATE		BY		
ENTERED BY B. PURGANAN	DATE		BY		
CHECKED BY P. JOHANNESSEN	DATE		BY		
PROJ. ENGR.	DATE		BY		
REGIONAL ADM.	DATE		BY		

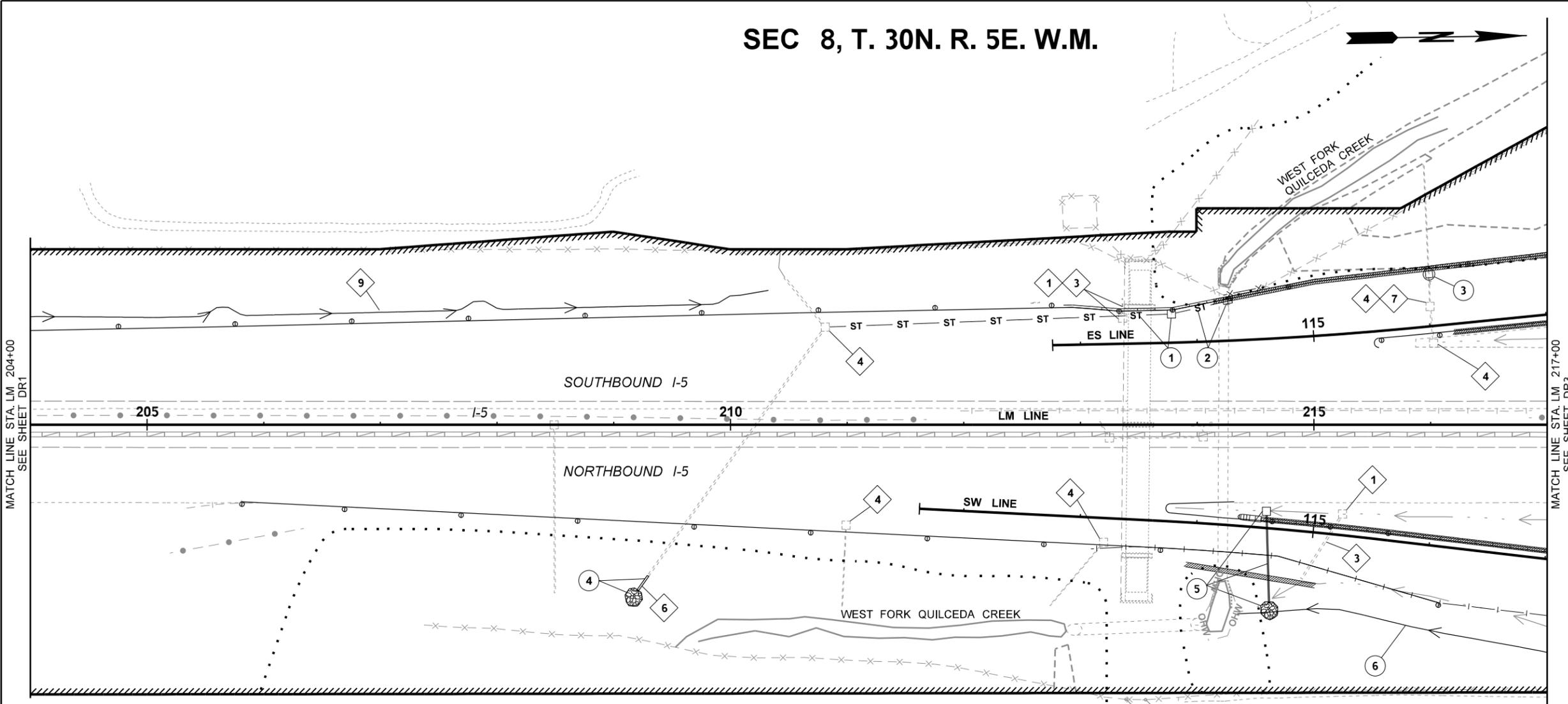
P.E. STAMP BOX

DATE



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 1 PLAN REF NO DR1
DRAINAGE PLAN	SHEET OF SHEETS

SEC 8, T. 30N. R. 5E. W.M.



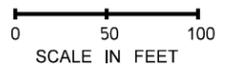
- CONSTRUCTION NOTES:**
- 1 REMOVE DRAINAGE STRUCTURE.
 - 2 PLUG EXISTING PIPE.
 - 3 REMOVE EXISTING PIPE.
 - 4 ADJUST CATCH BASIN TO FINISHED GRADE.
 - 5 CONNECT TO DRAINAGE STRUCTURE.
 - 6 EXTEND PIPE, MATCH EXISTING MATERIAL, DIAMETER AND SLOPE.
 - 7 REPLACE EXISTING GRATE WITH SOLID LOCKING LID.
 - 8 MOVE EXISTING STRUCTURE AND CONNECT TO PIPE EXTENSION.
 - 9 ROADSIDE DITCH, SEE SHEET RS1.

MATCH LINE STA. LM 204+00
SEE SHEET DR1

MATCH LINE STA. LM 217+00
SEE SHEET DR3

LEGEND

- | | | | |
|-----|--|---|---------------------|
| 1 | STRUCTURE NOTE CODE | □ | CATCH BASIN TYPE 1 |
| 7 | STRUCTURE NOTE CODE CONTINUED | ▣ | GRATE INLET TYPE 2 |
| DR2 | | ⊕ | CATCH BASIN TYPE 2 |
| | STREAM EDGE | ○ | STORM SEWER MANHOLE |
| | EXISTING DITCH BOTTOM | ● | SOIL BORING |
| | EXISTING CATCH BASIN | | |
| | EXISTING SEWER MANHOLE | | |
| | EXISTING SANITARY SEWER | | |
| | EXISTING CULVERT | | |
| | DITCH BOTTOM | | |
| | STORM SEWER LINE | | |
| | CULVERT | | |
| | COMPOST AMENDED BIOFILTRATION SWALE (CABS) | | |
| | COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS) | | |

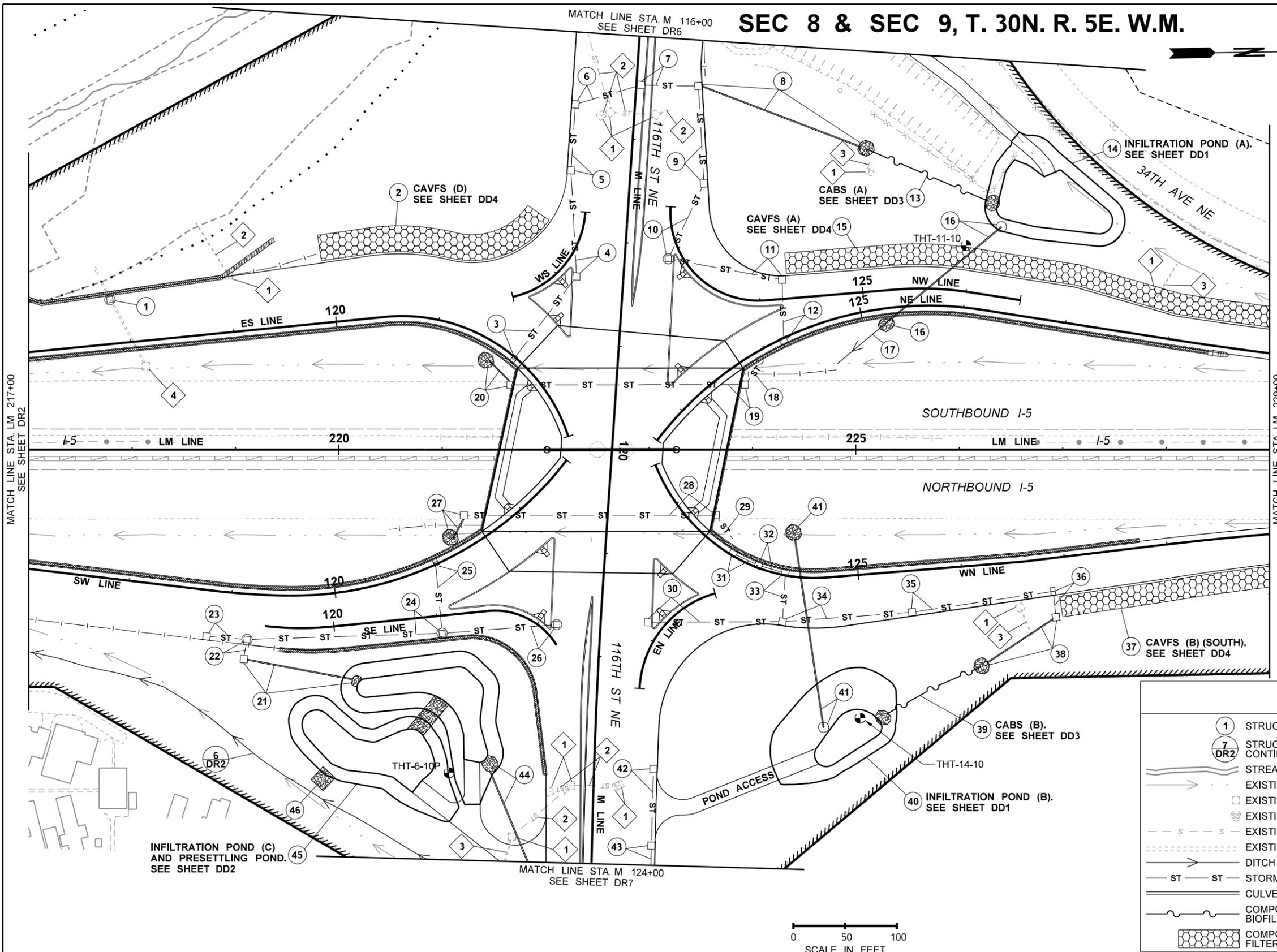


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TIME: 10:48:14 AM	DATE: 6/14/2012	JOB NUMBER	LOCATION NO.	PLAN REF NO. DR2				
PLOTTED BY: purgabut	DESIGNED BY: R. CUSHMAN	CONTRACT NO.					SHEET	
ENTERED BY: B. PURGANAN	CHECKED BY: P. JOHANNESSEN						OF	
PROJ. ENGR.	REGIONAL ADM.	REVISION	DATE	BY			SHEETS	

SEC 8 & SEC 9, T. 30N. R. 5E. W.M.

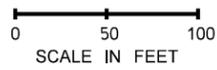
CONSTRUCTION NOTES:

- 1 REMOVE DRAINAGE STRUCTURE.
- 2 PLUG EXISTING PIPE.
- 3 REMOVE EXISTING PIPE.
- 4 ADJUST CATCH BASIN TO FINISHED GRADE.
- 5 CONNECT TO DRAINAGE STRUCTURE.
- 6 EXTEND PIPE, MATCH EXISTING MATERIAL, DIAMETER AND SLOPE.
- 7 REPLACE EXISTING GRATE WITH SOLID LOCKING LID.
- 8 MOVE EXISTING STRUCTURE AND CONNECT TO PIPE EXTENSION.
- 9 ROADSIDE DITCH, SEE SHEET RS1.



LEGEND

- | | | | |
|-------------|--|---|---------------------|
| 1 | STRUCTURE NOTE CODE | □ | CATCH BASIN TYPE 1 |
| 7 | STRUCTURE NOTE CODE CONTINUED | ▣ | GRATE INLET TYPE 2 |
| DR2 | STRUCTURE NOTE CODE CONTINUED | ⊕ | CATCH BASIN TYPE 2 |
| — | STREAM EDGE | ○ | STORM SEWER MANHOLE |
| — | EXISTING DITCH BOTTOM | ● | SOIL BORING |
| ▣ | EXISTING CATCH BASIN | | |
| ⊕ | EXISTING SEWER MANHOLE | | |
| — s — s — | EXISTING SANITARY SEWER | | |
| --- | EXISTING CULVERT | | |
| — | DITCH BOTTOM | | |
| — ST — ST — | STORM SEWER LINE | | |
| — | CULVERT | | |
| — | COMPOST AMENDED BIOFILTRATION SWALE (CABS) | | |
| ▣ | COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS) | | |

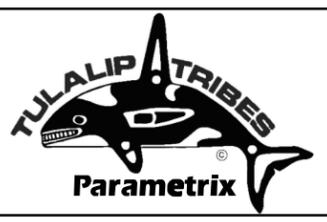


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DATE	6/14/2012		
PLOTTED BY	purgabut		
DESIGNED BY	R. CUSHMAN		
ENTERED BY	B. PURGANAN		
CHECKED BY	P. JOHANNESSEN		
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

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

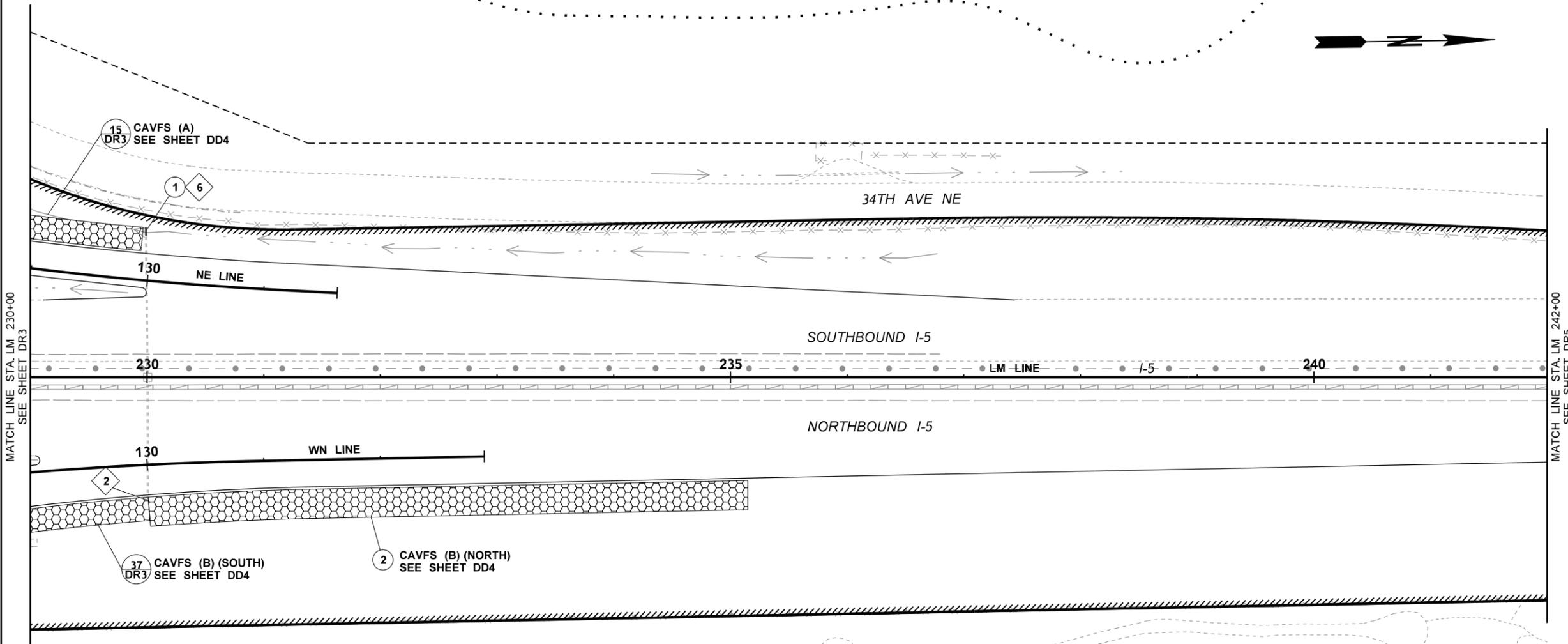
REBECCA S. CUSHMAN
REGISTERED PROFESSIONAL ENGINEER
STATE OF WASHINGTON
No. 1598

DATE _____ P.E. STAMP BOX



Plot 3
PLAN REF NO DR3
SHEET OF SHEETS
I-5 116TH ST NE INTERCHANGE IMPROVEMENTS
DRAINAGE PLAN

SEC 8, T. 30N. R. 5E. W.M.



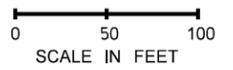
- CONSTRUCTION NOTES:**
- 1 REMOVE DRAINAGE STRUCTURE.
 - 2 PLUG EXISTING PIPE.
 - 3 REMOVE EXISTING PIPE.
 - 4 ADJUST CATCH BASIN TO FINISHED GRADE.
 - 5 CONNECT TO DRAINAGE STRUCTURE.
 - 6 EXTEND PIPE, MATCH EXISTING MATERIAL, DIAMETER AND SLOPE.
 - 7 REPLACE EXISTING GRATE WITH SOLID LOCKING LID.
 - 8 MOVE EXISTING STRUCTURE AND CONNECT TO PIPE EXTENSION.
 - 9 ROADSIDE DITCH, SEE SHEET RS1.

MATCH LINE STA. LM 230+00
SEE SHEET DR3

MATCH LINE STA. LM 242+00
SEE SHEET DR5

LEGEND

- | | |
|--|--|
| <ul style="list-style-type: none"> 1 STRUCTURE NOTE CODE 7 DR2 STRUCTURE NOTE CODE CONTINUED — — — — — STREAM EDGE — — — — — EXISTING DITCH BOTTOM ▭ EXISTING CATCH BASIN ⊙ EXISTING SEWER MANHOLE - - - - - EXISTING SANITARY SEWER - - - - - EXISTING CULVERT — — — — — DITCH BOTTOM — ST — ST — STORM SEWER LINE — — — — — CULVERT — — — — — COMPOST AMENDED BIOFILTRATION SWALE (CABS) ▨ COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS) | <ul style="list-style-type: none"> ▭ CATCH BASIN TYPE 1 ▭ GRATE INLET TYPE 2 ⊙ CATCH BASIN TYPE 2 ○ STORM SEWER MANHOLE ⊕ SOIL BORING |
|--|--|



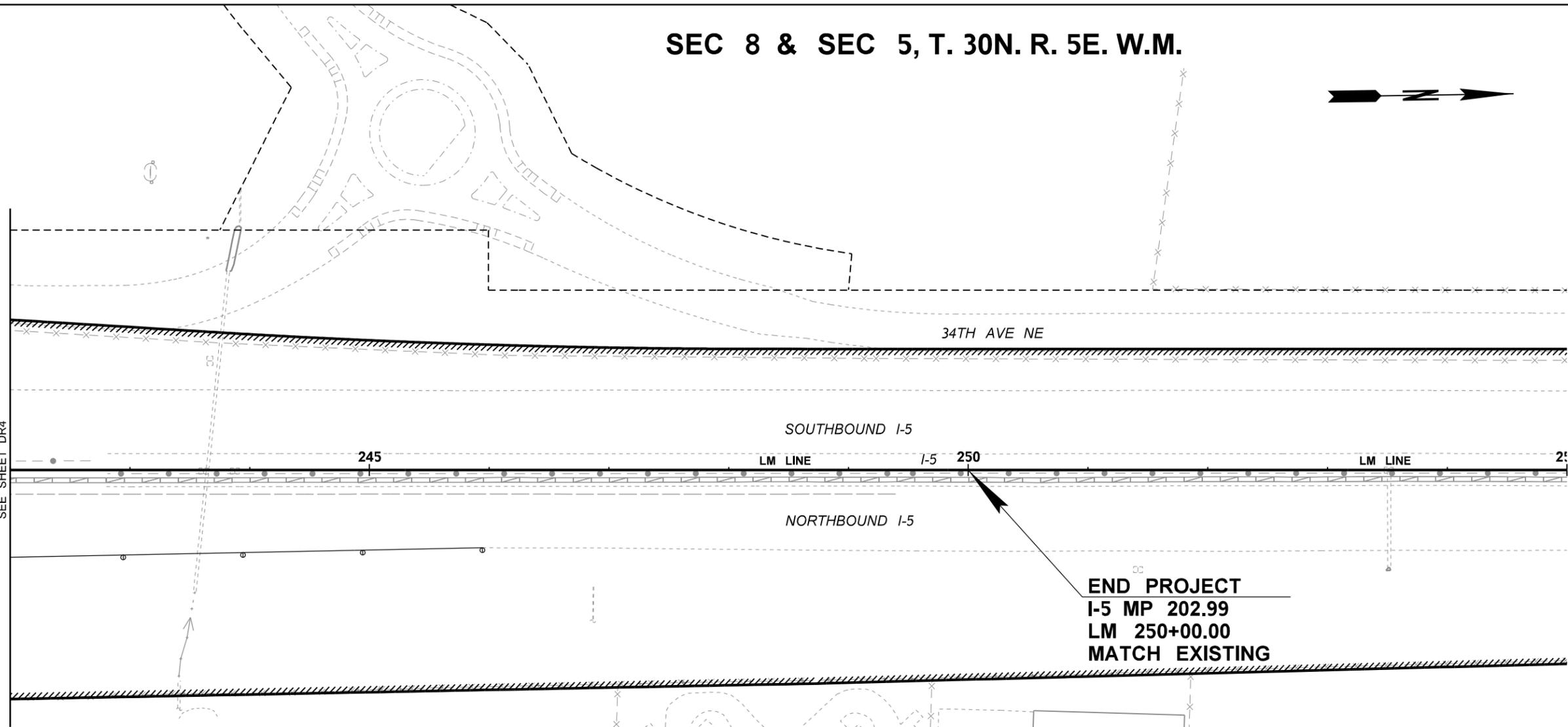
FILE NAME U:\BellProjects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3199Svcs\CADDIPS&ESheets\BL1598033_PS_DR.dgn				FED.AID PROJ.NO.						I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 4 PLAN REF NO DR4	
TIME 10:48:45 AM DATE 6/14/2012 PLOTTED BY purgabut DESIGNED BY R. CUSHMAN ENTERED BY B. PURGANAN CHECKED BY P. JOHANNESSEN PROJ. ENGR. REGIONAL ADM.		REVISION _____ DATE BY		REGION NO. STATE 10 WASH JOB NUMBER CONTRACT NO. LOCATION NO.		DATE P.E. STAMP BOX		DATE P.E. STAMP BOX		DRAINAGE PLAN		SHEET OF SHEETS	

SEC 8 & SEC 5, T. 30N. R. 5E. W.M.



- CONSTRUCTION NOTES:**
- 1 REMOVE DRAINAGE STRUCTURE.
 - 2 PLUG EXISTING PIPE.
 - 3 REMOVE EXISTING PIPE.
 - 4 ADJUST CATCH BASIN TO FINISHED GRADE.
 - 5 CONNECT TO DRAINAGE STRUCTURE.
 - 6 EXTEND PIPE, MATCH EXISTING MATERIAL, DIAMETER AND SLOPE.
 - 7 REPLACE EXISTING GRATE WITH SOLID LOCKING LID.
 - 8 MOVE EXISTING STRUCTURE AND CONNECT TO PIPE EXTENSION.
 - 9 ROADSIDE DITCH, SEE SHEET RS1.

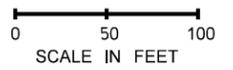
MATCH LINE STA. LM 242+00
SEE SHEET DR4



END PROJECT
I-5 MP 202.99
LM 250+00.00
MATCH EXISTING

LEGEND

- | | | | |
|---------------|--|---|---------------------|
| ① | STRUCTURE NOTE CODE | □ | CATCH BASIN TYPE 1 |
| ⑦ | STRUCTURE NOTE CODE CONTINUED | ▣ | GRATE INLET TYPE 2 |
| DR2 | STRUCTURE NOTE CODE CONTINUED | ⊕ | CATCH BASIN TYPE 2 |
| — | STREAM EDGE | ○ | STORM SEWER MANHOLE |
| → | EXISTING DITCH BOTTOM | ⊙ | SOIL BORING |
| ▣ | EXISTING CATCH BASIN | | |
| ⊕ | EXISTING SEWER MANHOLE | | |
| - - - s - - - | EXISTING SANITARY SEWER | | |
| - - - - - | EXISTING CULVERT | | |
| → | DITCH BOTTOM | | |
| — ST — ST — | STORM SEWER LINE | | |
| — | CULVERT | | |
| ~ | COMPOST AMENDED BIOFILTRATION SWALE (CABS) | | |
| ⊕ | COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS) | | |



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TIME: 10:49:02 AM				10 WASH				PLAN REF NO	
DATE: 6/14/2012								DR5	
PLOTTED BY: purgabut				JOB NUMBER				SHEET	
DESIGNED BY: R. CUSHMAN				CONTRACT NO.		LOCATION NO.		OF	
ENTERED BY: B. PURGANAN								SHEETS	
CHECKED BY: P. JOHANNESSEN									
PROJ. ENGR.									
REGIONAL ADM.				REVISION		DATE BY			

REBECCA S. CUSHMAN
REGISTERED PROFESSIONAL ENGINEER

Parametrix

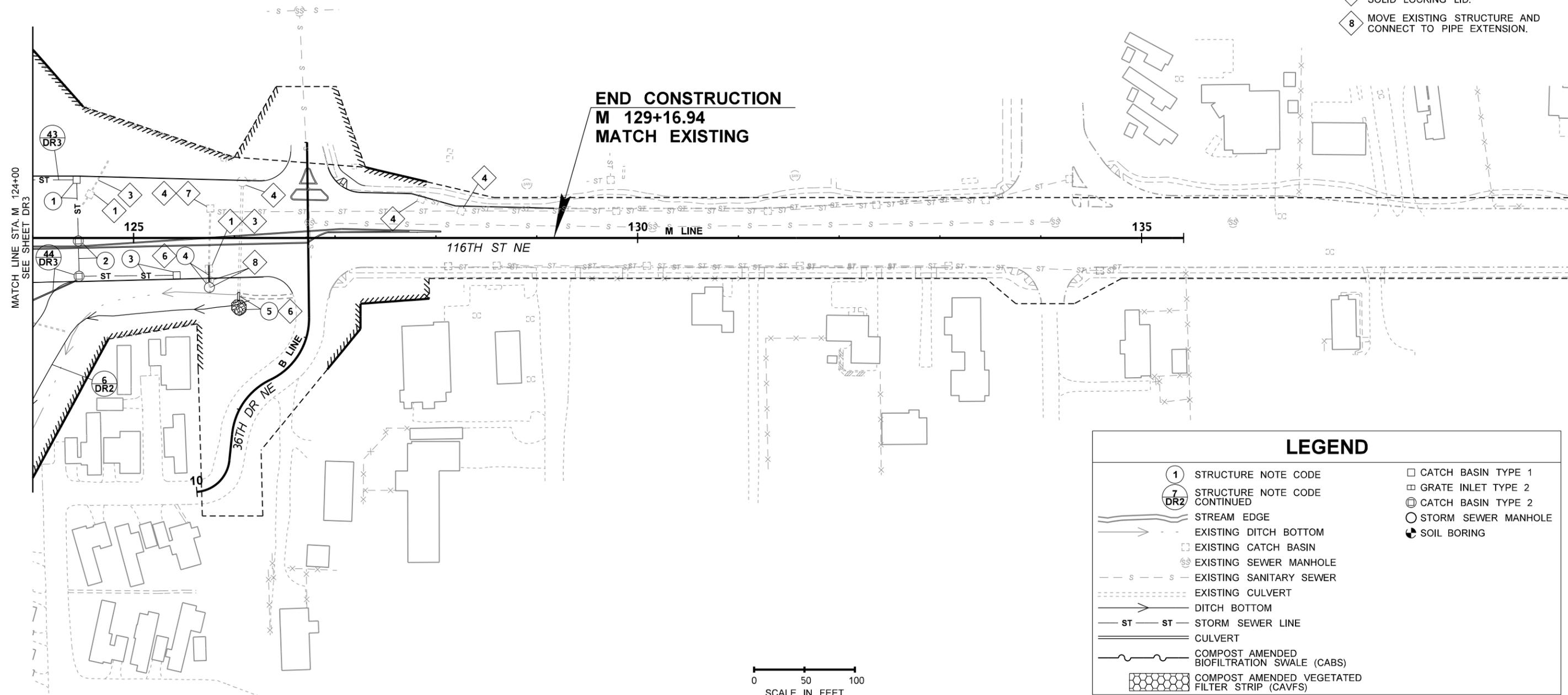
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

DRAINAGE PLAN

SEC 9, T. 30N. R. 5E. W.M.

CONSTRUCTION NOTES:

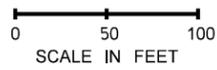
- 1 REMOVE DRAINAGE STRUCTURE
- 2 PLUG EXISTING PIPE.
- 3 REMOVE EXISTING PIPE.
- 4 ADJUST CATCH BASIN TO FINISHED GRADE.
- 5 CONNECT TO DRAINAGE STRUCTURE.
- 6 EXTEND PIPE, MATCH EXISTING MATERIAL, DIAMETER AND SLOPE.
- 7 REPLACE EXISTING GRATE WITH SOLID LOCKING LID.
- 8 MOVE EXISTING STRUCTURE AND CONNECT TO PIPE EXTENSION.



**END CONSTRUCTION
M 129+16.94
MATCH EXISTING**

LEGEND

- | | | | |
|-------------|--|---|---------------------|
| ① | STRUCTURE NOTE CODE | □ | CATCH BASIN TYPE 1 |
| ⑦ | STRUCTURE NOTE CODE CONTINUED | ⊠ | GRATE INLET TYPE 2 |
| DR2 | STRUCTURE NOTE CODE CONTINUED | ⊙ | CATCH BASIN TYPE 2 |
| — | STREAM EDGE | ○ | STORM SEWER MANHOLE |
| — | EXISTING DITCH BOTTOM | ⊙ | SOIL BORING |
| ⊠ | EXISTING CATCH BASIN | | |
| ⊙ | EXISTING SEWER MANHOLE | | |
| — s — s — | EXISTING SANITARY SEWER | | |
| — | EXISTING CULVERT | | |
| — | DITCH BOTTOM | | |
| — ST — ST — | STORM SEWER LINE | | |
| — | CULVERT | | |
| — | COMPOST AMENDED BIOFILTRATION SWALE (CABS) | | |
| ⊠ | COMPOST AMENDED VEGETATED FILTER STRIP (CAVFS) | | |



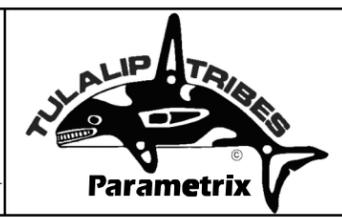
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DATE	6/14/2012	STATE	WASH
PLOTTED BY	purgabut	JOB NUMBER	
DESIGNED BY	R. CUSHMAN	CONTRACT NO.	
ENTERED BY	B. PURGANAN	LOCATION NO.	
CHECKED BY	P. JOHANNESSEN		
PROJ. ENGR.			
REGIONAL ADM.			
REVISION		DATE	BY

FED.AID PROJ.NO.

REBECCA S. CUSHMAN
REGISTERED PROFESSIONAL ENGINEER

DATE

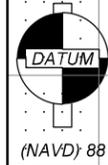
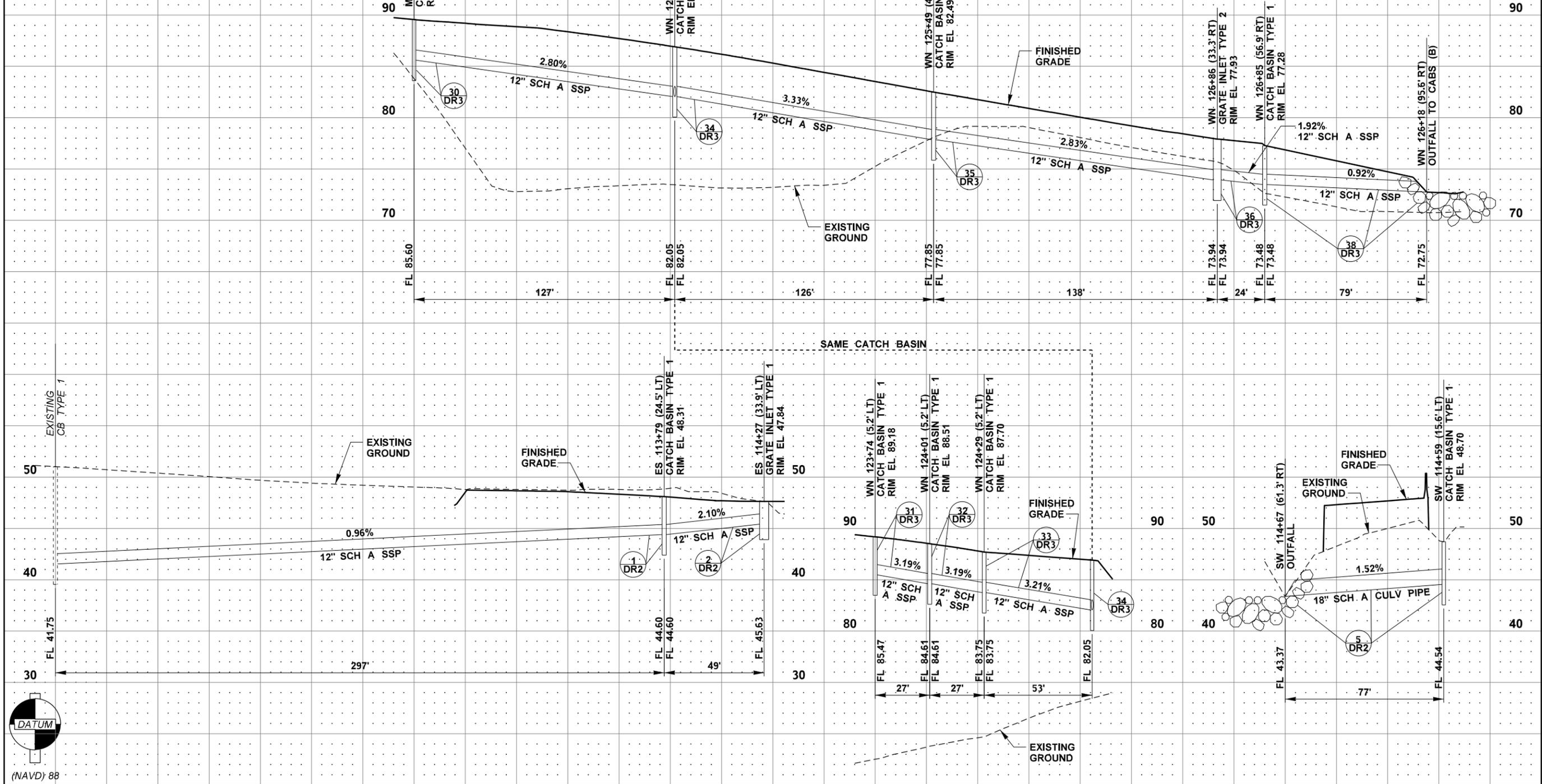
P.E. STAMP BOX



I-5	Plot 7
116TH ST NE	PLAN REF NO
INTERCHANGE IMPROVEMENTS	DR7
DRAINAGE PLAN	SHEET
	OF
	SHEETS

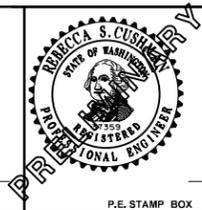
NOTES:

- SCH A SSP = SCHEDULE A STORM SEWER PIPE.
- SCH B SSP = SCHEDULE B STORM SEWER PIPE.
- PLAIN CONC = PLAIN CONCRETE STORM SEWER PIPE.
- CL V RCP = CLASS V REINFORCED CONCRETE STORM SEWER PIPE.
- CPEP = CORRUGATED POLYETHYLENE STORM SEWER PIPE.
- SEE SHEET DD4 FOR QUARRY SPALLS OUTLET PROTECTION DETAIL.
- STRUCTURE OFFSETS ARE MEASURED TO CENTER OF GRATE.
- BEVELED END SECTIONS AT ALL PIPE OUTFALL LOCATIONS.



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DATE	6/14/2012		
PLOTTED BY	purgabut		
DESIGNED BY	C. BUITRAGO		
ENTERED BY	B. PURGANAN		
CHECKED BY	R. CUSHMAN		
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

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



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

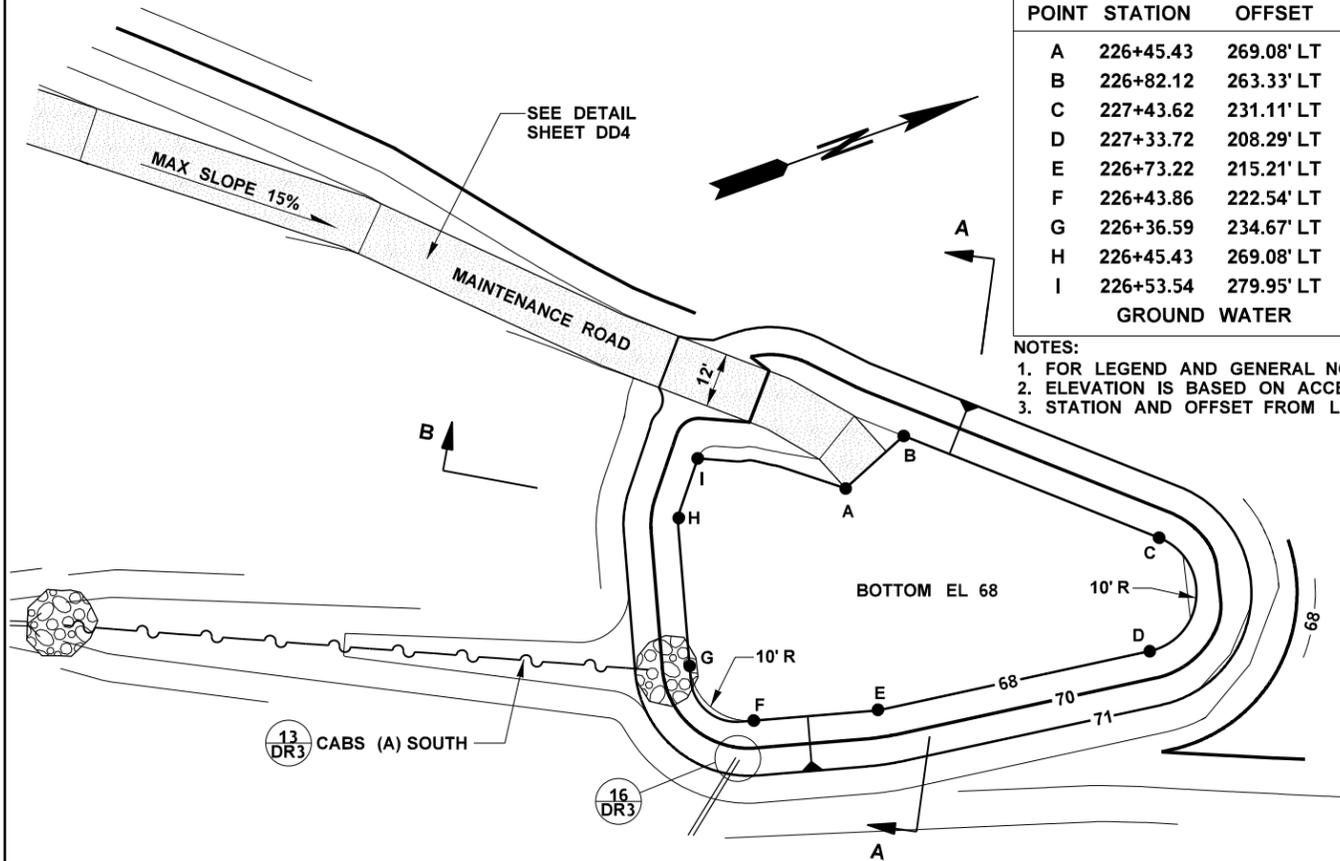
DRAINAGE PROFILES

Plot 1
PLAN REF. NO. DP1
SHEET OF SHEETS

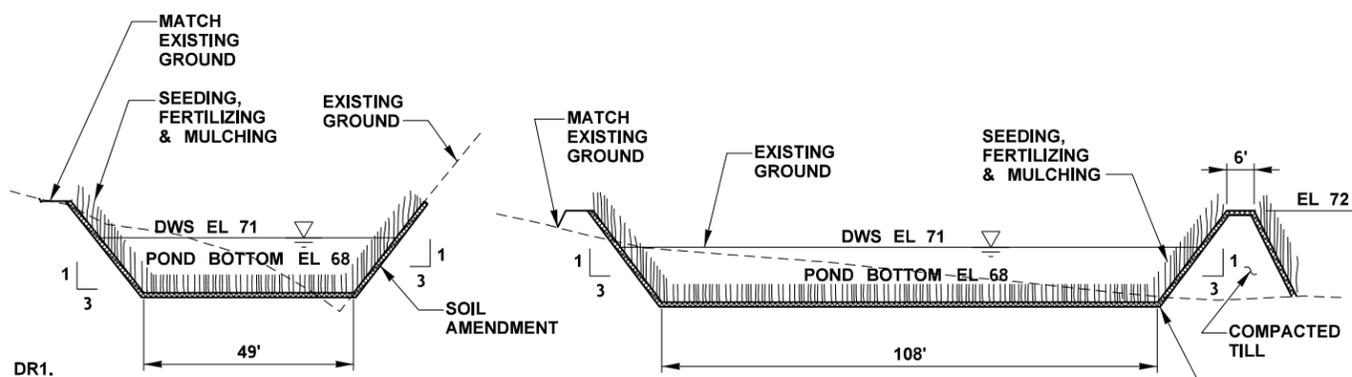
CONSTRUCTION POINTS COORDINATION TABLE

POINT	STATION	OFFSET	ELEVATION
A	226+45.43	269.08' LT	68
B	226+82.12	263.33' LT	68
C	227+43.62	231.11' LT	68
D	227+33.72	208.29' LT	68
E	226+73.22	215.21' LT	68
F	226+43.86	222.54' LT	68
G	226+36.59	234.67' LT	68
H	226+45.43	269.08' LT	68
I	226+53.54	279.95' LT	68
		GROUND WATER	57

NOTES:
 1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING DR1.
 2. ELEVATION IS BASED ON ACCESS ROAD SLOPE PER PLAN.
 3. STATION AND OFFSET FROM LM LINE.



14 DR3 INFILTRATION POND (A)
NOT TO SCALE



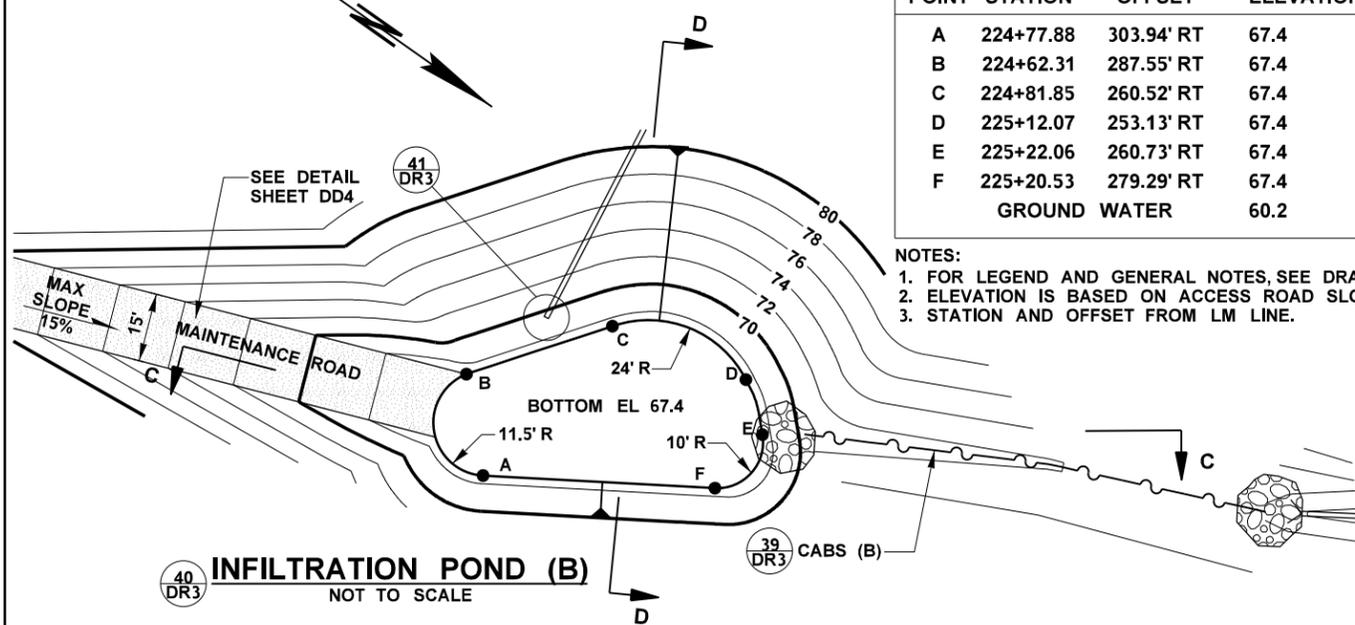
SECTION A
NOT TO SCALE

SECTION B
NOT TO SCALE

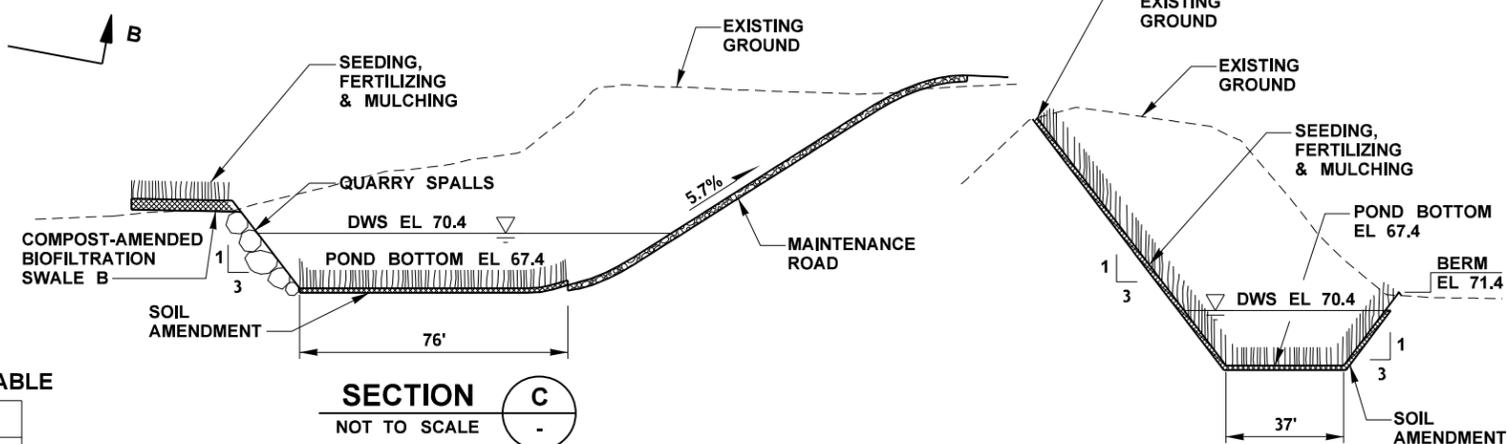
CONSTRUCTION POINTS COORDINATION TABLE

POINT	STATION	OFFSET	ELEVATION
A	224+77.88	303.94' RT	67.4
B	224+62.31	287.55' RT	67.4
C	224+81.85	260.52' RT	67.4
D	225+12.07	253.13' RT	67.4
E	225+22.06	260.73' RT	67.4
F	225+20.53	279.29' RT	67.4
		GROUND WATER	60.2

NOTES:
 1. FOR LEGEND AND GENERAL NOTES, SEE DRAWING DR1.
 2. ELEVATION IS BASED ON ACCESS ROAD SLOPE PER PLAN.
 3. STATION AND OFFSET FROM LM LINE.

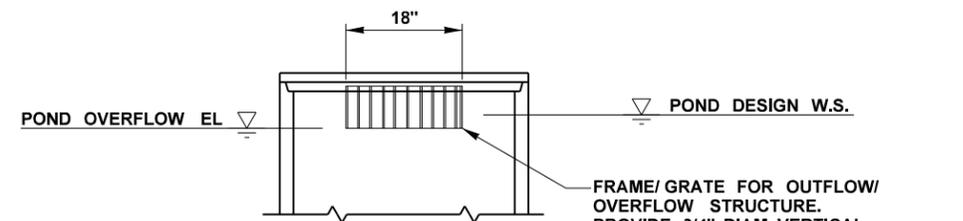


40 DR3 INFILTRATION POND (B)
NOT TO SCALE



SECTION C
NOT TO SCALE

SECTION D
NOT TO SCALE

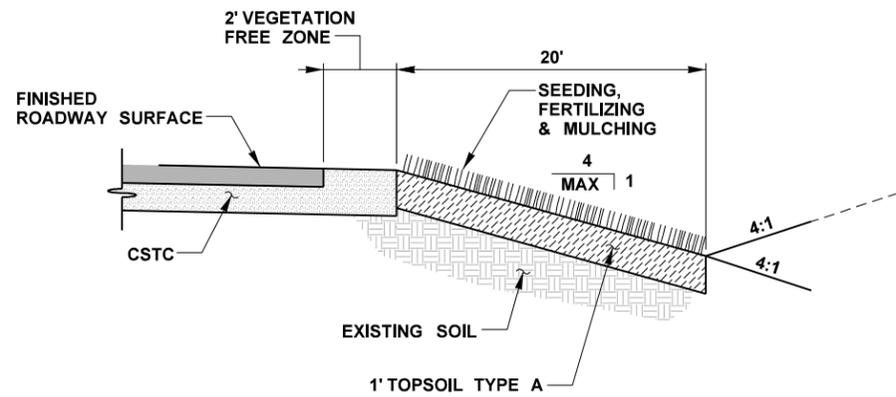


STRUCTURE NAME	POND DESIGN W.S.E.	OVERFLOW W.S.E.
DR3-16	71.00	71.15
DR3-41	70.40	70.41

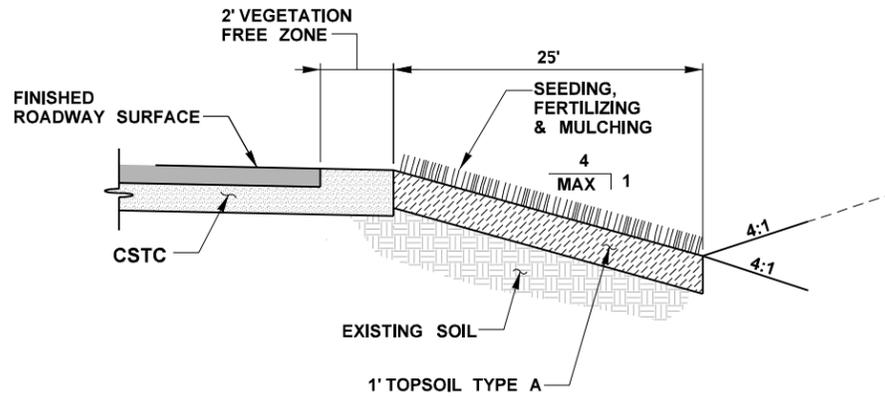
16 DR3 41 DR3 CATCH BASIN TYPE 2 48 IN. DIAM. WITH JAIL HOUSE GRATE DETAIL
NOT TO SCALE

FILE NAME	U:\BellProjects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3199Svcs\CADD\IPS&ESheets\BL1598033_DE_DD.dgn		
TIME	10:53:43 AM		
DATE	6/14/2012		
PLOTTED BY	purgabut		
DESIGNED BY	R. CUSHMAN		
ENTERED BY	B. PURGANAN		
CHECKED BY	P. JOHANNESSEN		
PROJ. ENGR.			
REGIONAL ADM.			
	REVISION	DATE	BY

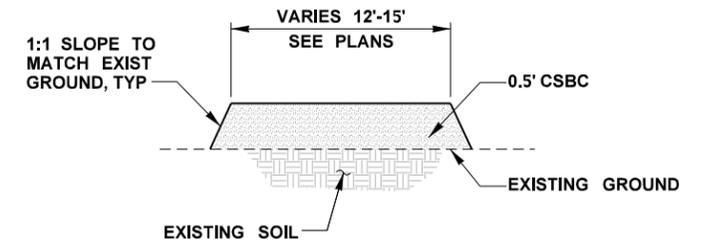
		Plot 1
		PLAN REF NO
	I-5	DD1
	116TH ST NE	
	INTERCHANGE IMPROVEMENTS	
	DRAINAGE DETAILS	
		SHEET
		OF
		SHEETS



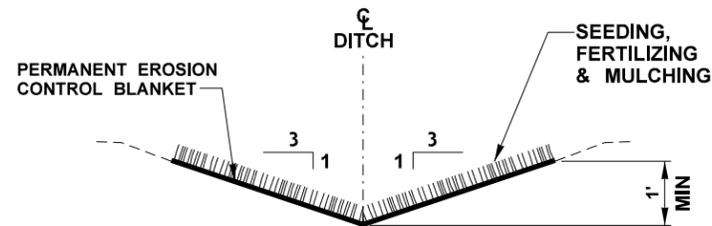
15 DR3 **COMPOST-AMENDED VEGETATED FILTER STRIP (CAVFS) (A)**
NOT TO SCALE
LM 224+33 (169.8' LT) TO LM 230+08 (106.9' LT)



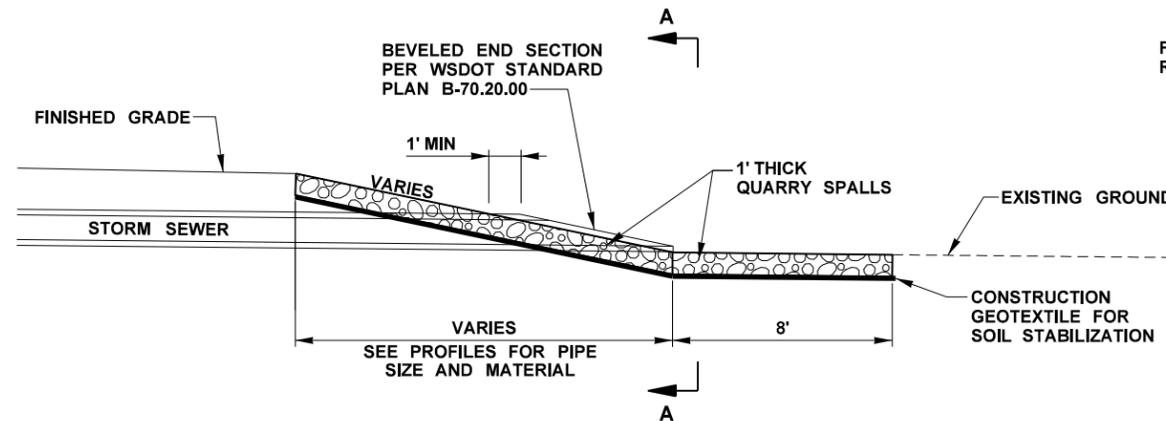
2 DR4 **COMPOST-AMENDED VEGETATED FILTER STRIP (CAVFS) (B) (NORTH)**
NOT TO SCALE
LM 230+01 (102.5' RT) TO LM 235+15 (88.3' RT)



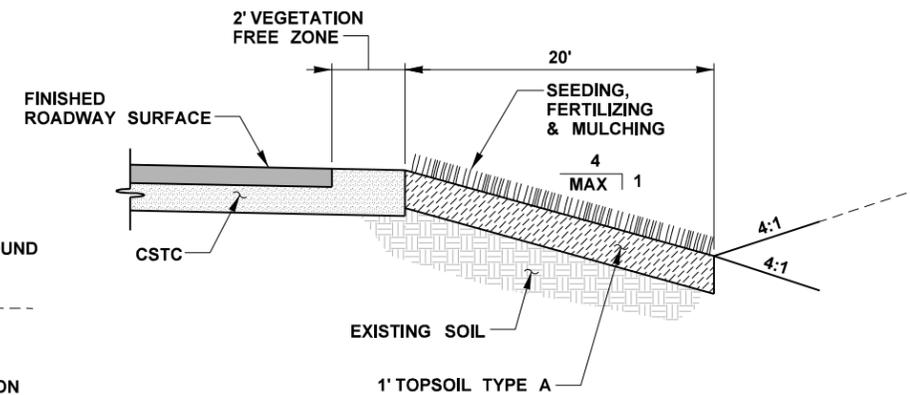
INFILTRATION POND ACCESS ROAD TYPICAL CROSS SECTION
NOT TO SCALE



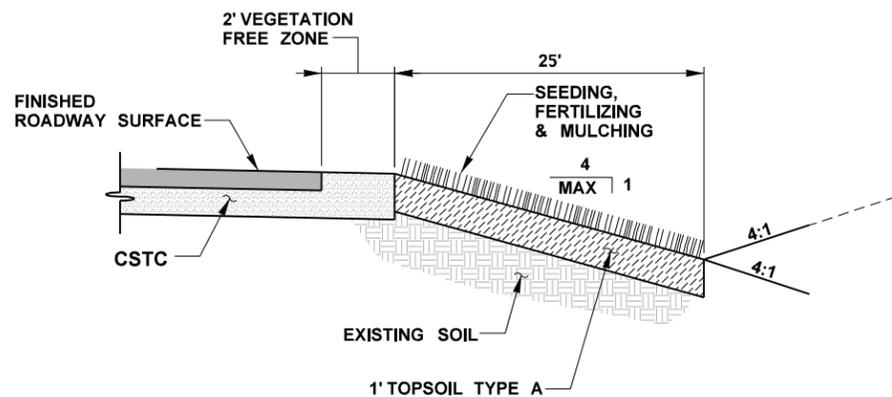
6 DR2 **TYPICAL DITCH CROSS SECTION**
NOT TO SCALE



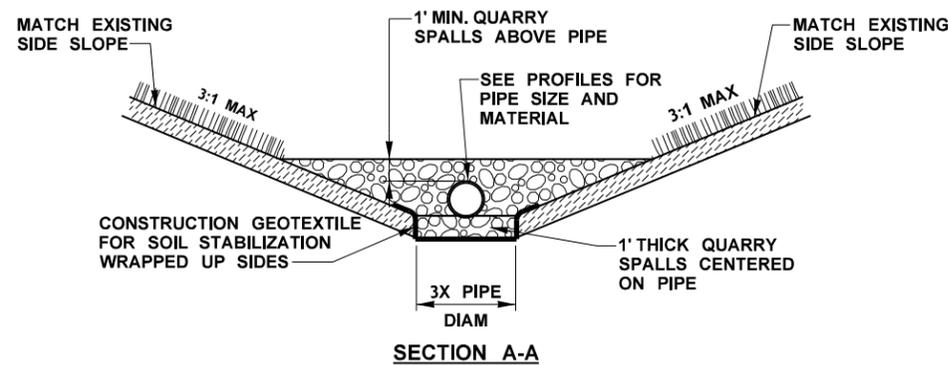
QUARRY SPALL OUTFALL PROTECTION
NOT TO SCALE



37 DR3 **COMPOST-AMENDED VEGETATED FILTER STRIP (CAVFS) (B) (SOUTH)**
NOT TO SCALE
LM 226+97 (141.6' RT) TO LM 230+01 (102.5' RT)



2 DR3 **COMPOST-AMENDED VEGETATED FILTER STRIP (CAVFS) (D)**
NOT TO SCALE
LM 219+83 (182.2' LT) TO LM 222+03 (221.6' LT)

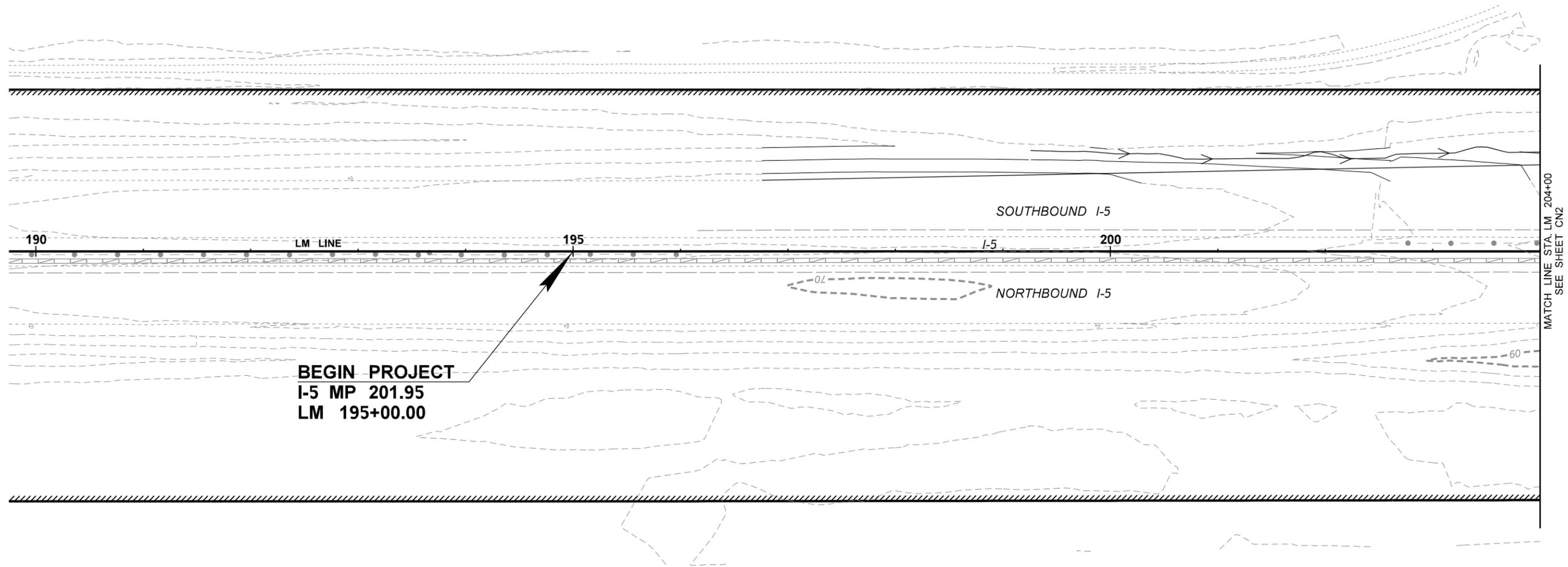
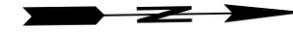


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TIME	10:54:16 AM			10	WASH	
DATE	6/14/2012			JOB NUMBER		
PLOTTED BY	purgabut			CONTRACT NO.		LOCATION NO.
DESIGNED BY	R. CUSHMAN					
ENTERED BY	B. PURGANAN					
CHECKED BY	P. JOHANNESSEN					
PROJ. ENGR.						
REGIONAL ADM.	REVISION	DATE	BY			

REBECCA S. CUSHMAN
REGISTERED PROFESSIONAL ENGINEER
STATE OF WASHINGTON
P.E. STAMP BOX



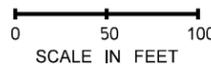
Plot 4
PLAN REF NO DD4
SHEET OF SHEETS
I-5 116TH ST NE INTERCHANGE IMPROVEMENTS DRAINAGE DETAILS



BEGIN PROJECT
 I-5 MP 201.95
 LM 195+00.00

LEGEND

- EXISTING MINOR CONTOUR
- - - 10 --- EXISTING MAJOR CONTOUR
- NEW MINOR CONTOUR
- - - 10 --- NEW MAJOR CONTOUR
- > NEW DITCH BOTTOM



FILE NAME \\parametrix.com\pmx\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\199Svcs\CADD\PS&ESheets\BL1598033_PS_CN.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	10:30:44 AM			10	WASH	
DATE	10/26/2012			JOB NUMBER		
PLOTTED BY	purgabut			CONTRACT NO.		LOCATION NO.
DESIGNED BY	M. TSUN					
ENTERED BY	B. PURGANAN					
CHECKED BY	J. SWENSON					
PROJ. ENGR.						
REGIONAL ADM.		REVISION	DATE	BY		

PRELIMINARY

STATE OF WASHINGTON
 LICENSED
 LANDSCAPE ARCHITECT

JENS SWENSON
 LICENSE NO. 656
 EXPIRES ON _____

DATE _____
 P.E. STAMP BOX

STATE OF WASHINGTON
 LICENSED
 LANDSCAPE ARCHITECT

JENS SWENSON
 LICENSE NO. 656
 EXPIRES ON _____

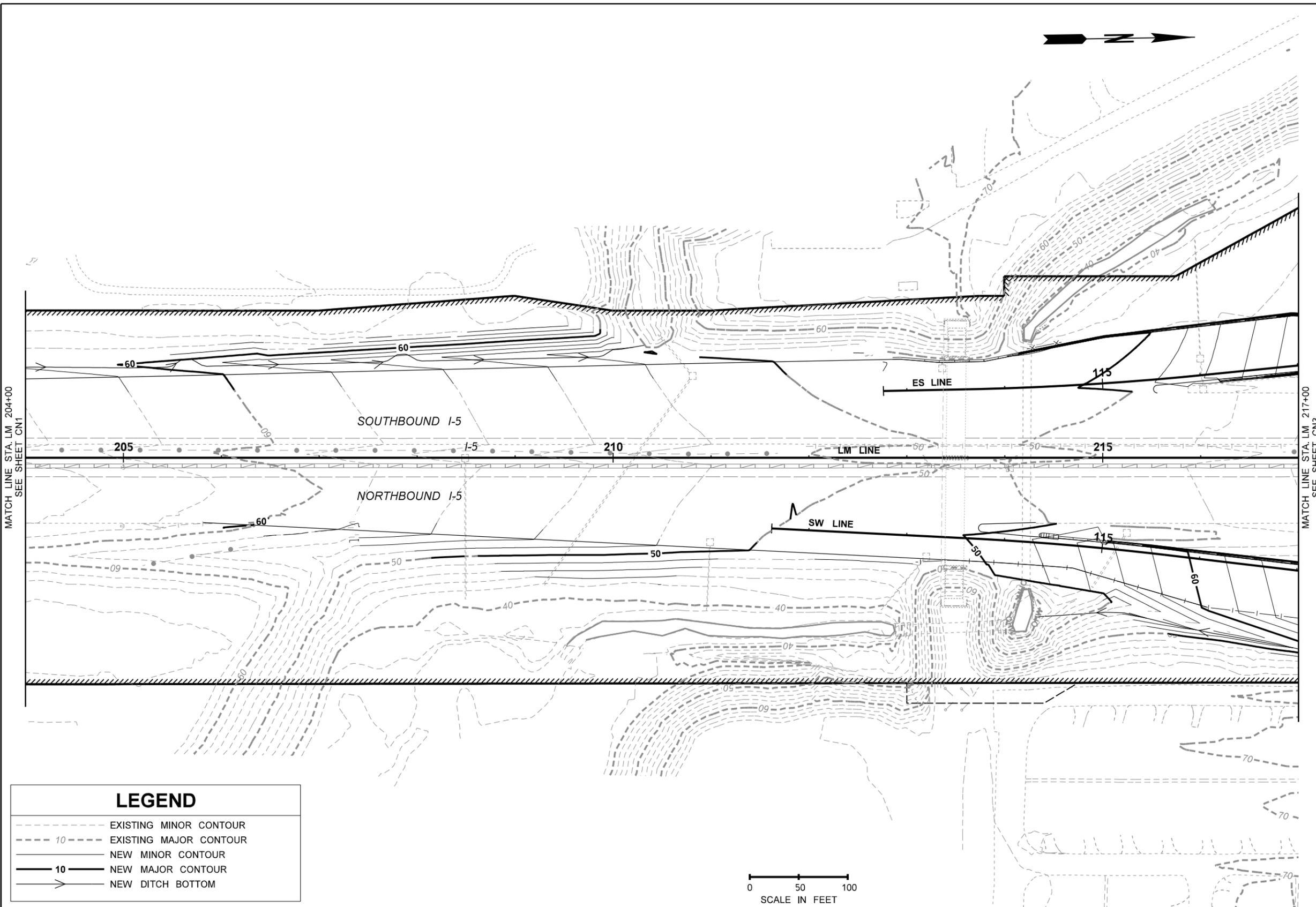
DATE _____
 P.E. STAMP BOX



**I-5
 116TH ST NE
 INTERCHANGE IMPROVEMENTS**

CONTOUR AND GRADING PLAN

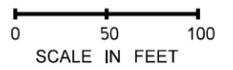
Plot 1
PLAN REF NO CN1
SHEET OF SHEETS



MATCH LINE STA. LM 204+00
SEE SHEET CN1

MATCH LINE STA. LM 217+00
SEE SHEET CN3

LEGEND	
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	NEW MINOR CONTOUR
	NEW MAJOR CONTOUR
	NEW DITCH BOTTOM



FILE NAME \\parametrix.com\pmx\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\199Svcs\CADD\PS&ESheets\BL1598033_PS_CN.dgn				FED.AID PROJ.NO.	
TIME	10:31:13 AM	REGION NO.	STATE	10 WASH	
DATE	10/26/2012	JOB NUMBER			
PLOTTED BY	purgabut	CONTRACT NO.	LOCATION NO.		
DESIGNED BY	M. TSUN	REVISION	DATE	BY	
ENTERED BY	B. PURGANAN				
CHECKED BY	J. SWENSON				
PROJ. ENGR.					
REGIONAL ADM.					

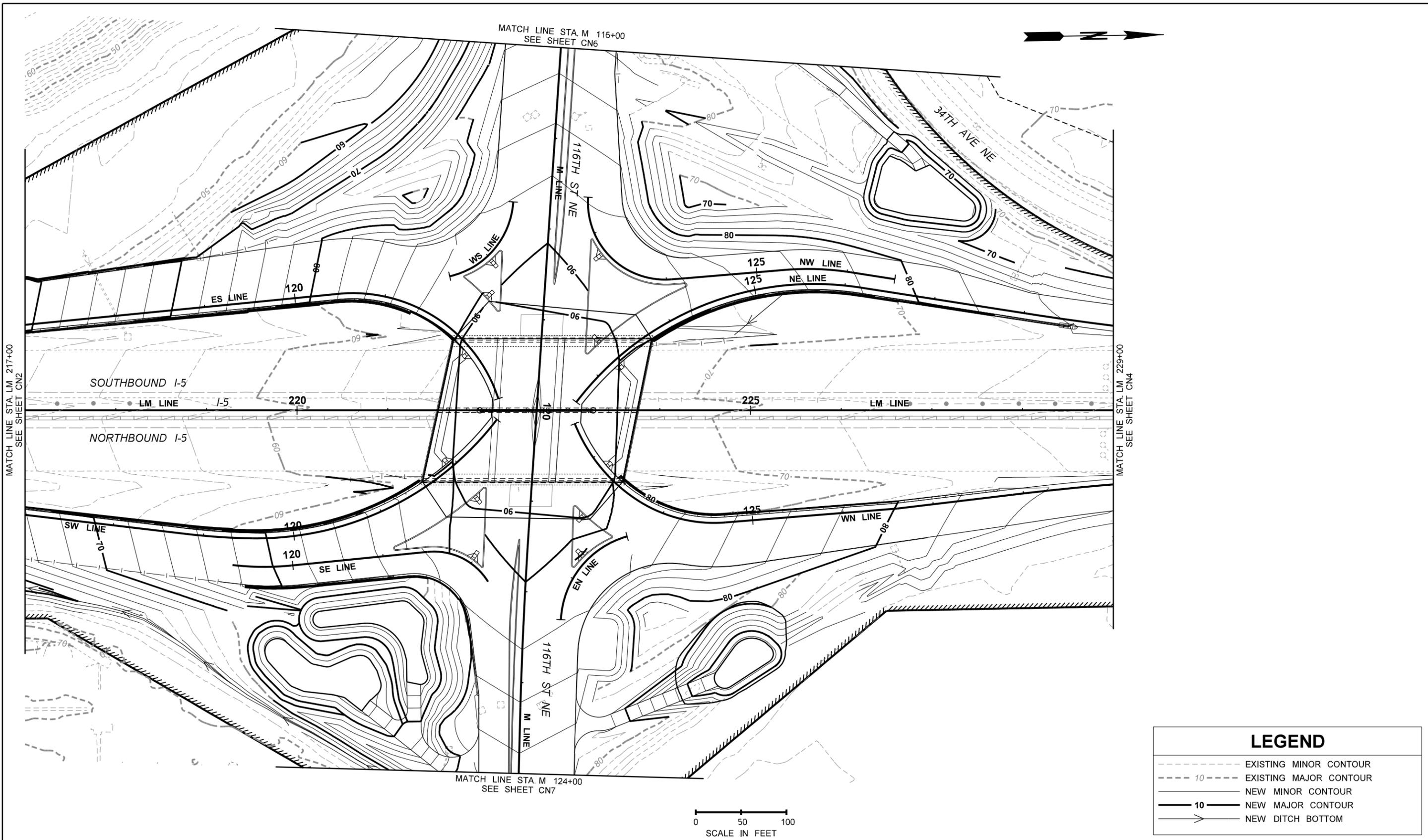
PRELIMINARY

P.E. STAMP BOX

P.E. STAMP BOX



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 2 PLAN REF NO CN2
CONTOUR AND GRADING PLAN		SHEET OF SHEETS



LEGEND	
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	NEW MINOR CONTOUR
	NEW MAJOR CONTOUR
	NEW DITCH BOTTOM

FILE NAME	\\parametrix.com\pmx\Bell\Projects\Clients\1598-Tulalip Tribes\1598-033-116thPh\199Svcs\CADD\PS&ESheets\1598033_PS_CN.dgn		
TIME	10:31:38 AM	REGION NO.	10
DATE	10/26/2012	STATE	WASH
PLOTTED BY	purgabut	JOB NUMBER	
DESIGNED BY	M. TSUN	CONTRACT NO.	
ENTERED BY	B. PURGANAN	LOCATION NO.	
CHECKED BY	J. SWENSON		
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

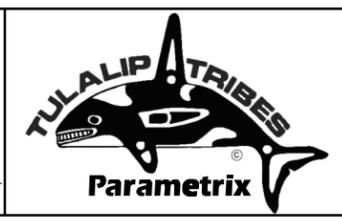
FED.AID PROJ.NO.	
DATE	
P.E. STAMP BOX	

PRELIMINARY

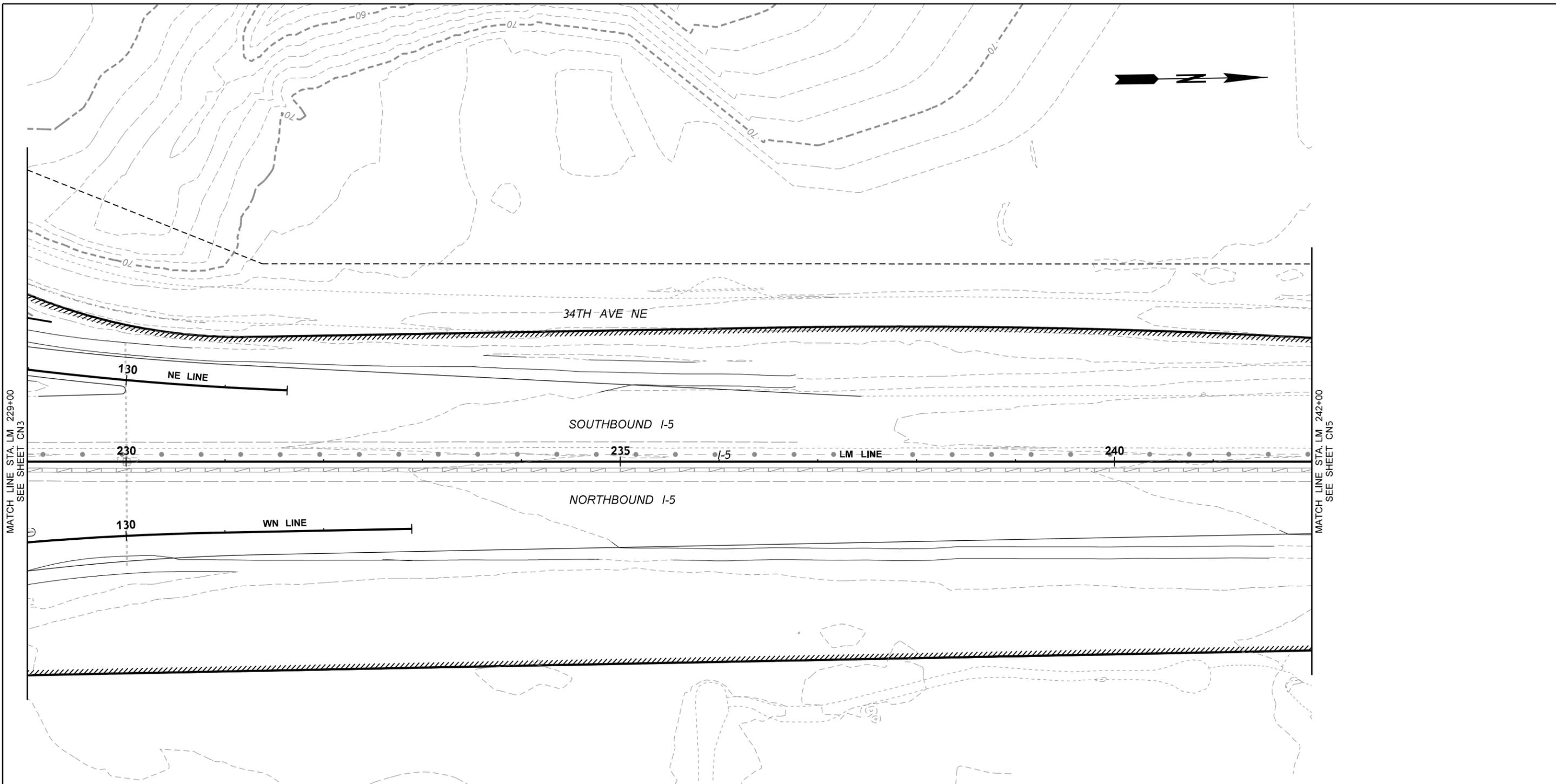
STATE OF WASHINGTON
LICENSED
LANDSCAPE ARCHITECT

JENS SWENSON
LICENSE NO. 656
EXPIRES ON _____

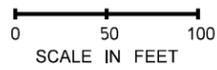
DATE _____
P.E. STAMP BOX



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 3 PLAN REF NO CN3
CONTOUR AND GRADING PLAN	SHEET OF SHEETS



LEGEND	
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	NEW MINOR CONTOUR
	NEW MAJOR CONTOUR
	NEW DITCH BOTTOM



FILE NAME \\parametrix.com\pmx\Bell\Projects\Clients\1598-Tulalip Tribes\1598-033-116thPh\199Svcs\CADD\PS&ESheets\BL1598033_PS_CN.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	10:32:03 AM			10	WASH	
DATE	10/26/2012			JOB NUMBER		
PLOTTED BY	purgabut			CONTRACT NO.		LOCATION NO.
DESIGNED BY	M. TSUN					
ENTERED BY	B. PURGANAN					
CHECKED BY	J. SWENSON					
PROJ. ENGR.						
REGIONAL ADM.	REVISION	DATE	BY			

PRELIMINARY

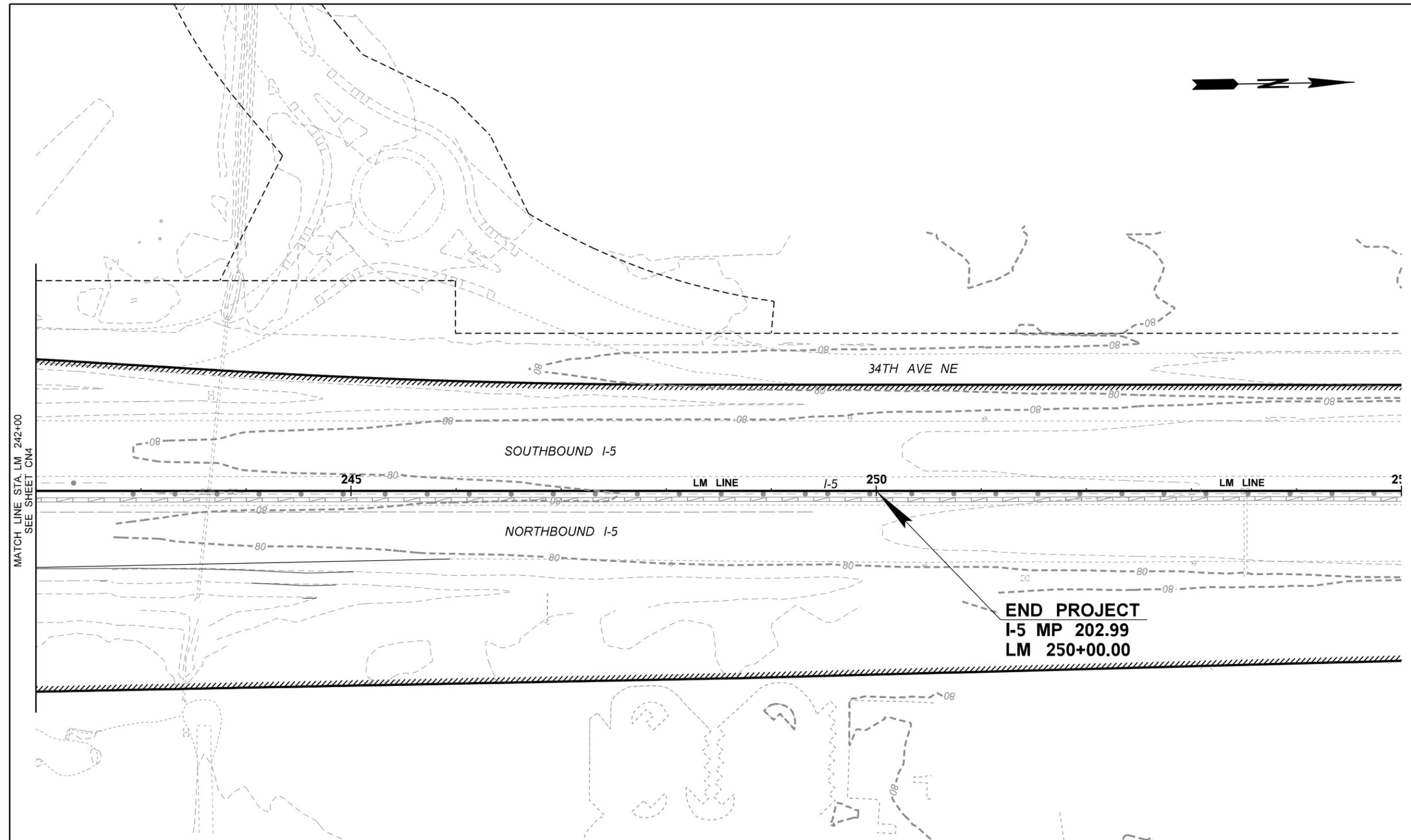
STATE OF WASHINGTON
LICENSED
LANDSCAPE ARCHITECT

JENS SWENSON
LICENSE NO. 656
EXPIRES ON _____

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

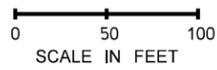


I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 4 PLAN REF NO CN4
CONTOUR AND GRADING PLAN		SHEET OF SHEETS



MATCH LINE STA. LM 242+00
SEE SHEET CN4

END PROJECT
I-5 MP 202.99
LM 250+00.00



LEGEND	
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	NEW MINOR CONTOUR
	NEW MAJOR CONTOUR
	NEW DITCH BOTTOM

FILE NAME \\parametrix.com\pmx\BellProjects\Clients\1598-Tulalip Tribes\1598-033-116thPh\199Svcs\CADD\PS&ESheets\BL1598033_PS_CN.dgn			
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DATE	10/26/2012	10	WASH
PLOTTED BY	purgabut	JOB NUMBER	
DESIGNED BY	M. TSUN	CONTRACT NO.	LOCATION NO.
ENTERED BY	B. PURGANAN		
CHECKED BY	J. SWENSON		
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

FED.AID PROJ.NO.

DATE

P.E. STAMP BOX

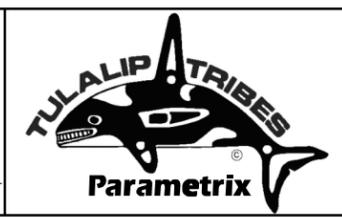
PRELIMINARY

STATE OF WASHINGTON
LICENSED
LANDSCAPE ARCHITECT

JENS SWENSON
LICENSE NO. 656
EXPIRES ON

DATE

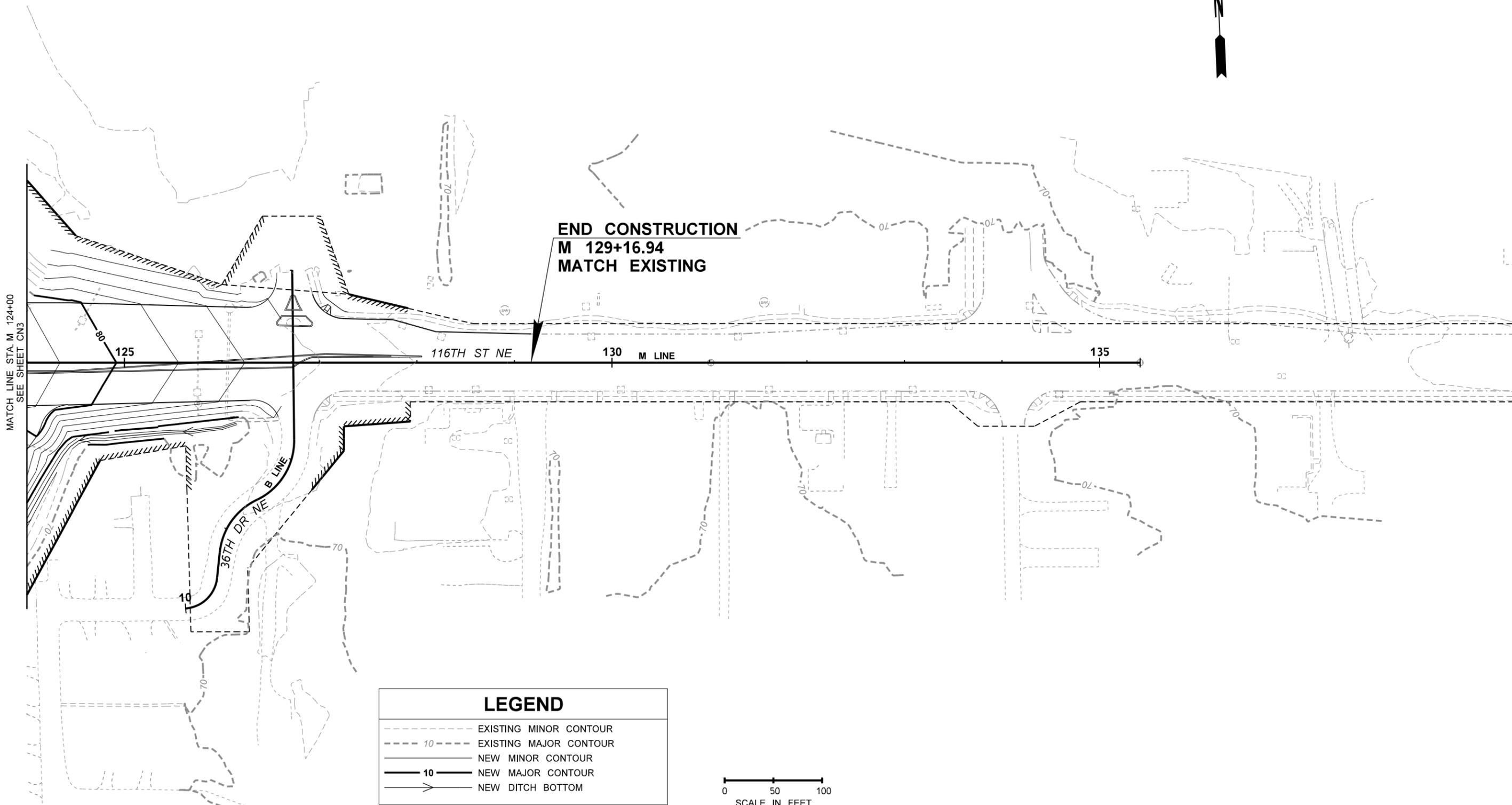
P.E. STAMP BOX



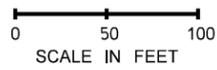
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

CONTOUR AND GRADING PLAN

Plot 5
PLAN REF NO
CN5
SHEET
OF
SHEETS



LEGEND	
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	NEW MINOR CONTOUR
	NEW MAJOR CONTOUR
	NEW DITCH BOTTOM



FILE NAME	\\parametrix.com\pmx\Bell\Projects\Clients\1598-Tulalip Tribes\1598-033-116thPh\199Svcs\CADD\PS&ESheets\1598033_PS_CN.dgn				
TIME	10:33:38 AM	REGION NO.	10	STATE	WASH
DATE	10/26/2012	FED.AID PROJ.NO.			
PLOTTED BY	purgabut	JOB NUMBER			
DESIGNED BY	M. TSUN	CONTRACT NO.	LOCATION NO.		
ENTERED BY	B. PURGANAN				
CHECKED BY	J. SWENSON				
PROJ. ENGR.					
REGIONAL ADM.	REVISION	DATE	BY		

PRELIMINARY

STATE OF WASHINGTON
LICENSED
LANDSCAPE ARCHITECT

JENS SWENSON
LICENSE NO. 656
EXPIRES ON _____

DATE _____ P.E. STAMP BOX

Parametrix

TULALIP TRIBES

Parametrix

I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

CONTOUR AND GRADING PLAN

Plot 7
PLAN REF NO
CN7
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.		SEW TRAFFIC BARRIER	BARRIER DELINEATOR	CEMENT CONC. TRAFFIC CURB AND GUTTER	CEMENT CONC. TRAFFIC CURB	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	BEAM GUARDRAIL TYPE 31	SINGLE SLOPE CONCRETE BARRIER	BEAM GUARDRAIL TRANSITION SECTION TYPE 21	BEAM GUARDRAIL ANCHOR TYPE 10	PRECAST SLOPED MOUNTABLE CURB	PERMANENT IMPACT ATTENUATOR	CEMENT CONC. SIDEWALK RAMP TYPE PERPENDICULAR A	FLEXIBLE GUIDE POST	CHAIN LINK FENCE TYPE 4	SEE GENERAL NOTES	GENERAL NOTES:
																	CODE
PV1-1	LM 196+75.69 (68 LT)													1		10, 11	1. SEE STANDARD PLAN C-13B, SINGLE SLOPE CONCRETE BARRIER (PRE-CAST) VERTICAL BACK 2. SEE STANDARD PLAN L-20.10-01, CHAIN LINK FENCE, TYPE 3 AND 4 3. SEE STANDARD PLAN C-20.14-01, BEAM GUARDRAIL TYPE 31: PLACEMENT 4. SEE STANDARD PLAN C-22.40-02, BEAM GUARDRAIL TYPE 31: NON-FLARED TERMINAL 5. SEE STANDARD PLAN C-23.60-01, BEAM GUARDRAIL (TYPE 31) ANCHOR TYPE 10 6. SEE STANDARD PLAN C-25.20-04, BEAM GUARDRAIL (TYPE 31) TRANSITION SECTION TYPE 21 7. SEE STANDARD PLAN F-40.15-01, PERPENDICULAR CURB RAMP 8. SEE STANDARD PLAN F-10.62-01, PRECAST CONCRETE SLOPED MOUNTABLE CURB 9. SEE STANDARD PLAN F-10.12-02, CEMENT CONCRETE CURBS 10. SEE STANDARD PLAN M-40.10-02, GUIDE POSTS AND BARRIER DELINEATORS, SIDE MOUNT FOR BARRIER DELINEATORS OR GUARDRAIL MOUNT ON STEEL GUARDRAIL POST 11. SEE STANDARD PLAN M-40.20-00 FOR GUIDE POST PLACEMENT INTERCHANGES 12. SEE FIGURE 5.4.3.15 OF HIGHWAY RUNOFF MANUAL (NOV. 2011). WSDOT STORMWATER BMP STICKER SHALL SAY "VEGETATED FILTER STRIP" 13. SEE FIGURE 5.4.3.15 OF HIGHWAY RUNOFF MANUAL (NOV 2011). WSDOT STORMWATER BMP STICKER SHALL SAY "STORMWATER DETENTION POND" 14. QUADTREND 350 END TREATMENT SYSTEM
PV1-2	LM 197+75.67 (70 LT)													1		10, 11	
PV1-3	LM 198+75.65 (72.01 LT)													1		10, 11	
PV1-4	LM 199+75.63 (74.01 LT)													1		10, 11	
PV1-5	LM 200+75.61 (76.02 LT)													1		10, 11	
PV1-6	LM 201+75.59 (78.03 LT)													1		10, 11	
PV1-7	LM 202+75.57 (80 LT)													1		10, 11	
PV1-8	LM 203+75.55 (82 LT)													1		10, 11	
PV2-1	ES 112+86.11 (32.0'LT) TO ES 114+14.11 (34.6' LT)							128								1	
PV2-2	ES 114+24.17 (39.2' LT) TO ES 114+60.24 (44.5' LT)														36	2	
PV2-3	ES 116+19.96 (7.0' RT) TO ES 121+91.08 (7.0' RT)	565															
PV2-4	SW 113+10.43 (26.8' RT) TO SW 113+47.74 (23.0' RT)					1				1						4, 5	
PV2-5	SW 114+54.66 (7.2' LT)											1				14	
PV2-6	SW 114+54.66 (7.2' LT) TO SW 121+56.50 (7.0' LT)	697															
PV2-7	SW 113+47.74 (23.0' RT) TO SW 118+72.98 (47.9' RT)							569								3	
PV2-8	ES 114+14.11 (34.6' LT) TO ES 118+95.48 (54.6' LT)	481															
PV2-9	LM 204+75.53 (84 LT)													1		10, 11	
PV2-10	LM 205+75.51 (86.06 LT)													1		10, 11	
PV2-11	LM 206+75.48 (88.46 LT)													1		10, 11	
PV2-12	LM 207+75.45 (90.86 LT)													1		10, 11	
PV2-13	LM 208+75.43 (93.26 LT)													1		10, 11	
PV2-14	LM 209+75.40 (95.66 LT)													1		10, 11	
PV2-15	LM 210+75.37 (98 LT)													1		10, 11	
PV2-16	LM 211+75.35 (100 LT)													1		10, 11	
PV2-17	LM 212+75.33 (102 LT)		1													10, 11	
PV2-18	ES 113+33.64 (28 LT)		1													10, 11	
PV2-19	ES 113+79.67 (28 LT)		1													10, 11	
PV2-20	ES 114+30.17 (36.07 LT)		1													10, 11	
PV2-21	ES 114+81.10 (43.33 LT)		1													10, 11	
PV2-22	ES 116+37.32 (49.87 LT)		1													10, 11	
PV2-23	ES 115+57.67 (8 RT)													1		10, 11	
PV2-24	ES 116+.07+57 (8.38 RT)													1		10, 11	
PV2-25	LM 205+81.35 (68 RT)													1		10, 11	
SHEET TOTAL		1,743	6			1	569	128		1				19	36		

DESIGNED BY	O. KIKUTA	DATE	DATE	REVISION	BY	REGION NO.	STATE	FED. AID PROJ. NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	QTPV1
ENTERED BY	E. SOTO					10	WASH					SHEET
CHECKED BY	O. KIKUTA					JOB NUMBER						OF
PROJ. ENGR.						CONTRACT NO.						SHEETS
REGION ADM.	L. ENG								QUANTITY TABULATION - PAVING			

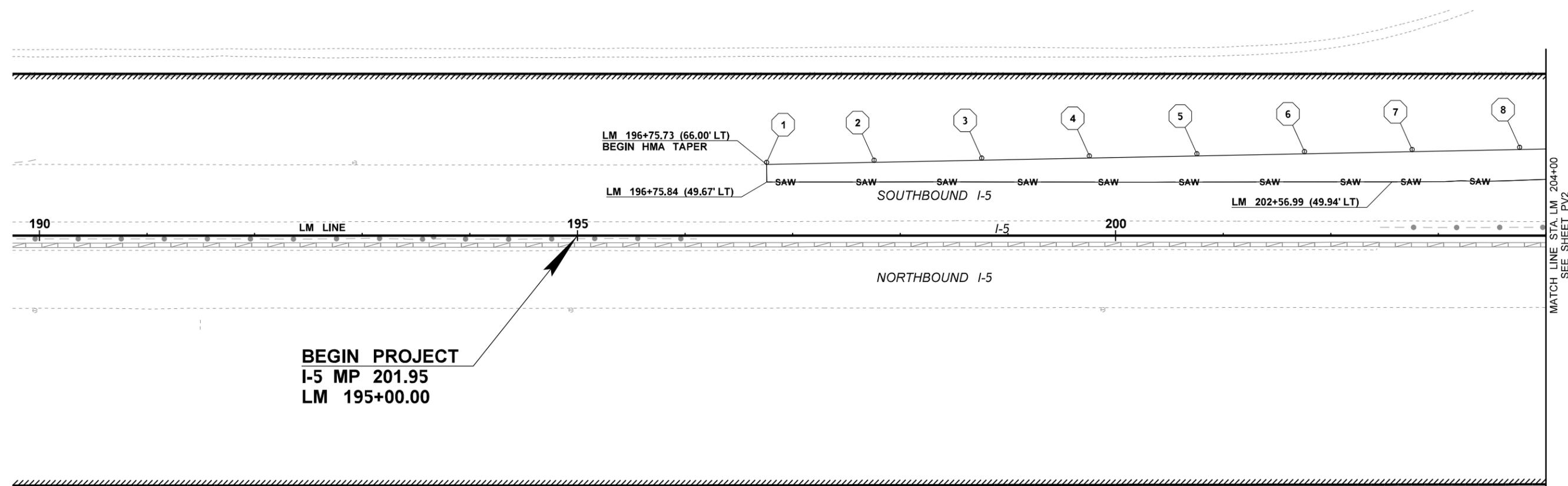
QUANTITY TABULATION - PAVING

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.		SEW TRAFFIC BARRIER	BARRIER DELINEATOR	CEMENT CONC. TRAFFIC CURB AND GUTTER	CEMENT CONC. TRAFFIC CURB	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	BEAM GUARDRAIL TYPE 31	SINGLE SLOPE CONCRETE BARRIER	BEAM GUARDRAIL TRANSITION SECTION TYPE 21	BEAM GUARDRAIL ANCHOR TYPE 10	PRECAST SLOPED MOUNTABLE CURB	PERMANENT IMPACT ATTENUATOR	CEMENT CONC. SIDEWALK RAMP TYPE PERPENDICULAR A	FLEXIBLE GUIDE POST	CHAIN LINK FENCE TYPE 4	SEE GENERAL NOTES	GENERAL NOTES:
PV2-26	LM 206+69.31 (72.4 RT)													1		10, 11	1. SEE STANDARD PLAN C-13B, SINGLE SLOPE CONCRETE BARRIER (PRE-CAST) VERTICAL BACK 2. SEE STANDARD PLAN L-20.10-01, CHAIN LINK FENCE, TYPE 3 AND 4 3. SEE STANDARD PLAN C-20.14-01, BEAM GUARDRAIL TYPE 31: PLACEMENT 4. SEE STANDARD PLAN C-22.40-02, BEAM GUARDRAIL TYPE 31: NON-FLARED TERMINAL 5. SEE STANDARD PLAN C-23.60-01, BEAM GUARDRAIL (TYPE 31) ANCHOR TYPE 10 6. SEE STANDARD PLAN C-25.20-04, BEAM GUARDRAIL (TYPE 31) TRANSITION SECTION TYPE 21 7. SEE STANDARD PLAN F-40.15-01, PERPENDICULAR CURB RAMP 8. SEE STANDARD PLAN F-10.62-01, PRECAST CONCRETE SLOPED MOUNTABLE CURB 9. SEE STANDARD PLAN F-10.12-02, CEMENT CONCRETE CURBS 10. SEE STANDARD PLAN M-40.10-02, GUIDE POSTS AND BARRIER DELINEATORS, SIDE MOUNT FOR BARRIER DELINEATORS OR GUARDRAIL MOUNT ON STEEL GUARDRAIL POST 11. SEE STANDARD PLAN M-40.20-00 FOR GUIDE POST PLACEMENT INTERCHANGES 12. SEE FIGURE 5.4.3.15 OF HIGHWAY RUNOFF MANUAL (NOV. 2011). WSDOT STORMWATER BMP STICKER SHALL SAY "VEGETATED FILTER STRIP" 13. SEE FIGURE 5.4.3.15 OF HIGHWAY RUNOFF MANUAL (NOV 2011). WSDOT STORMWATER BMP STICKER SHALL SAY "STORMWATER DETENTION POND" 14. QUADTREND 350 END TREATMENT SYSTEM
PV2-27	LM 207+69.18 (77.39 RT)													1		10, 11	
PV2-28	LM 208+69.06 (82.38 RT)													1		10, 11	
PV2-29	LM 209+68.93 (87.38 RT)													1		10, 11	
PV2-30	LM 210+68.81 (92.37 RT)													1		10, 11	
PV2-31	SW 111+69.94 (25 RT)													1		10, 11	
PV2-32	SW 112+69.94 (25 RT)													1		10, 11	
PV2-33	SW 113+70.07(25 RT)													1		10, 11	
PV2-34	SW 114+67.23 (6 LT)		1													10, 11	
PV2-35	SW 115+14.15 (6 LT)		1													10, 11	
PV2-36	SW 115+64.05 (6 LT)		1													10, 11	
PV2-37	SW 116+13.78 (50 RT)													1		10, 11	
PV3-1	ES 122+14.53 (8.5' RT)												1			7	
PV3-2	ES 121+87.95 (53.9' LT)												1			7	
PV3-3	WS 121+99.02 (7.7' RT)												1			7	
PV3-4	NE 128+71.71 (25 LT)													1		10, 11	
PV3-5	NOT USED																
PV3-6	NW 123+23.26 (7.2' RT)												1			7	
PV3-7	NE 123+25.62 (28.1' LT)												1			7	
PV3-8	NE 123+25.81 (8.5' RT)												1			7	
PV3-9	LM 223+91.01 (73.0' LT) TO LM 224+41.02 (73.0' LT)								1							6	
PV3-10	LM 224+41.02 (73.0' LT) TO LM 224+81.02 (77.0' LT)					1				1						4, 5	
PV3-11	WN 124+04.01 (6 LT)		1													10, 11	
PV3-12	NE 123+72.61 (7.0' RT) TO NE 128+40.01 (7.0' RT)	462															
PV3-13	NE 128+40.01 (7.0' RT)											1				14	
PV3-14	WN 124+69.64 (6 LT)		1													10, 11	
PV3-15	LM 220+48.54 (77.0' RT) TO LM 220+88.54 (7.30' RT)					1				1						4, 5	
PV3-16	LM 220+88.54 (73.0' RT) TO LM 221+38.55 (73.0' RT)															6	
PV3-17	SW 121+91.34 (8.5' LT)												1			7	
PV3-18	SW 121+91.35 (43.1' RT)												1			7	
PV3-19	SE 121+98.65 (7.2' LT)												1			7	
PV3-20	SW 119+19.59 (50.1' RT) TO M 123+15.66 (47.1' RT)	428															
PV3-21	M 123+15.51 (46.1' RT) TO M 123+53.39 (45.1' RT)			38												9	
PV3-22	M 123+10.38 (61' LT) TO WN 126+88.89 (35.5' RT)			488												9	
SHEET TOTAL		890	5	526	0	2	0	0	2	2	0	1	9	10			

DESIGNED BY	O. KIKUTA					REGION NO.	STATE	FED. AID PROJ. NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	QTPV2	
ENTERED BY	E. SOTO												SHEET
CHECKED BY	O. KIKUTA												OF
PROJ. ENGR.													SHEETS
REGION ADM.	L. ENG										QUANTITY TABULATION - PAVING		
		DATE	DATE	REVISION	BY								

CONSTRUCTION NOTES:

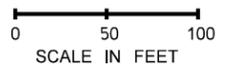
- 1 FOR ACP WIDENING DETAIL, SEE SHEET PD3.
- 2 FOR RAISED MEDIAN DETAILS, SEE SHEET PD2.
- 3 FOR RAISED TRAFFIC ISLAND DETAILS SEE SHEETS PD1 AND PD3.



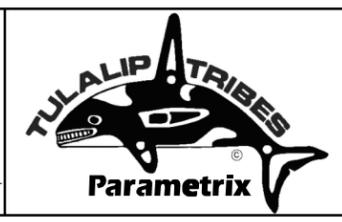
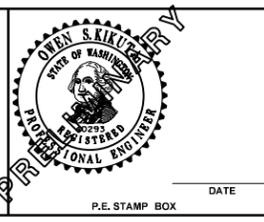
BEGIN PROJECT
I-5 MP 201.95
LM 195+00.00

LEGEND

- QUANTITY TAB NOTE
- QUANTITY TAB NOTE CONTINUED
- EDGE OF PAVEMENT
- GUARDRAIL
- CONCRETE BARRIER
- CONCRETE CURB
- FLEXIBLE GUIDE POST/BARRIER DELINEATOR
- FENCE
- SAWCUT
- PERMANENT IMPACT ATTENUATOR



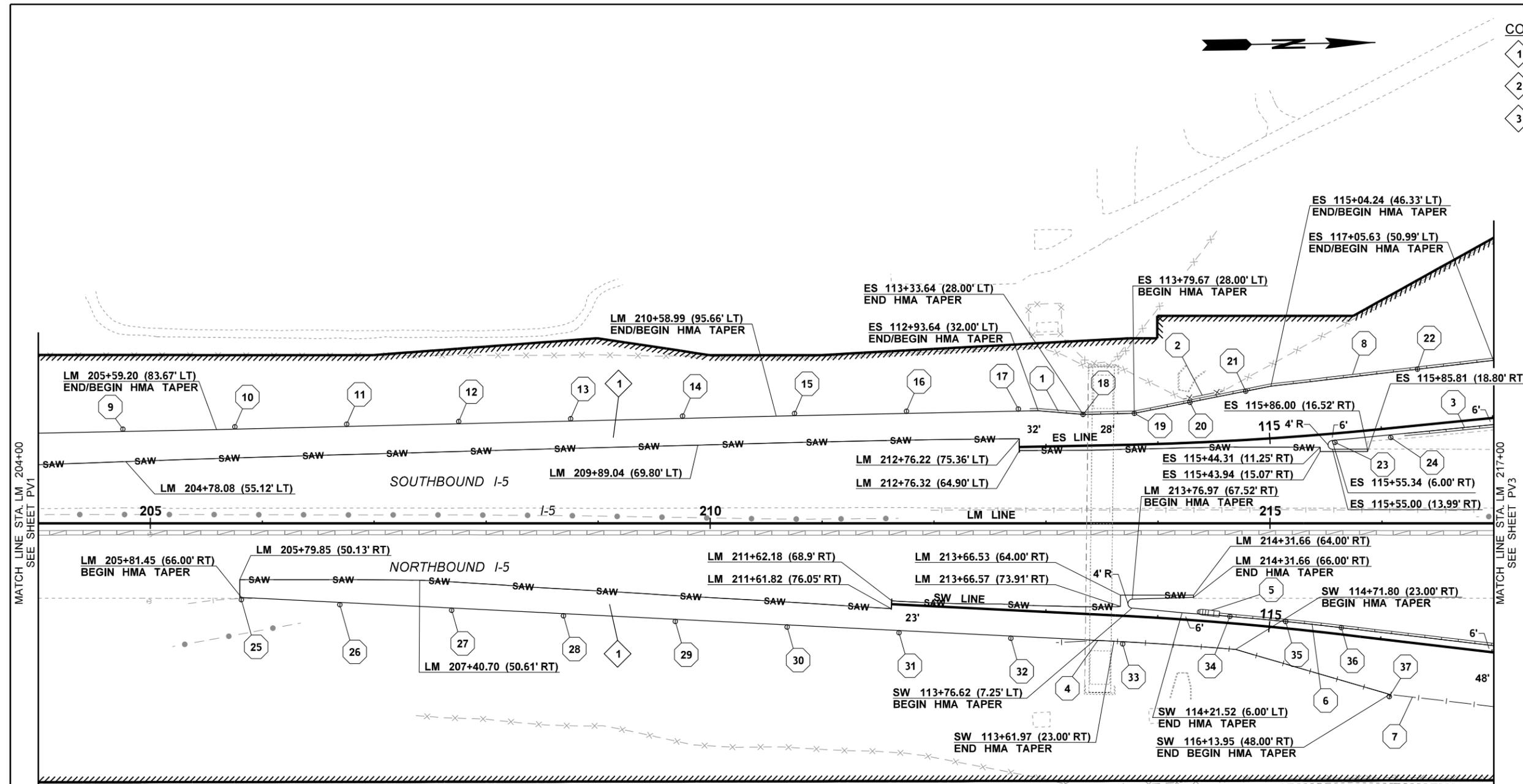
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TIME	11:15:20 AM			10	WASH			PLAN REF NO	
DATE	6/14/2012							PV1	
PLOTTED BY	purgabut			JOB NUMBER				SHEET	
DESIGNED BY	M. TSUN / J. JUN			CONTRACT NO.		LOCATION NO.		OF	
ENTERED BY	B. PURGANAN							SHEETS	
CHECKED BY	O. KIKUTA								
PROJ. ENGR.									
REGIONAL ADM.		REVISION	DATE	BY					



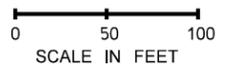
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

PAVING PLAN

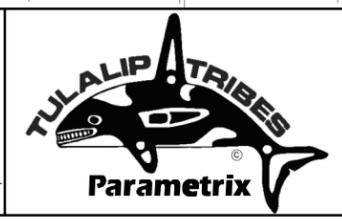
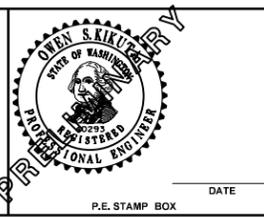
- CONSTRUCTION NOTES:**
- 1 FOR ACP WIDENING DETAIL, SEE SHEET PD3.
 - 2 FOR RAISED MEDIAN DETAILS, SEE SHEET PD2.
 - 3 FOR RAISED TRAFFIC ISLAND DETAILS SEE SHEETS PD1 AND PD3.



LEGEND	
	QUANTITY TAB NOTE
	QUANTITY TAB NOTE CONTINUED
	EDGE OF PAVEMENT
	GUARDRAIL
	CONCRETE BARRIER
	CONCRETE CURB
	FLEXIBLE GUIDE POST/BARRIER DELINEATOR
	FENCE
	SAWCUT
	PERMANENT IMPACT ATTENUATOR

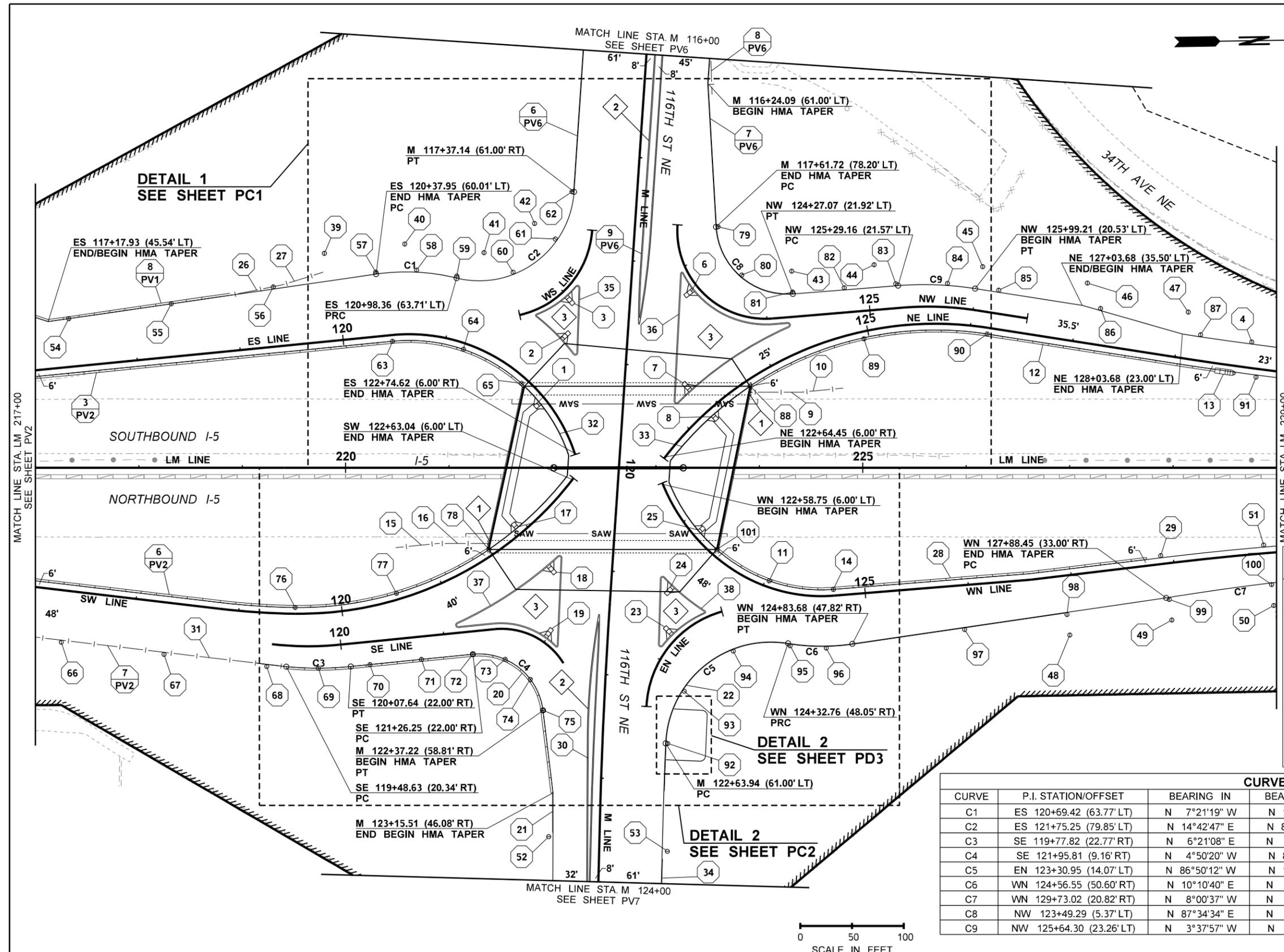


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DATE	6/14/2012	JOB NUMBER			
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DESIGNED BY	M. TSUN / J. JUN	LOCATION NO.			
ENTERED BY	B. PURGANAN	REVISION			
CHECKED BY	O. KIKUTA	DATE			
PROJ. ENGR.		BY			
REGIONAL ADM.					



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 2 PLAN REF NO PV2
PAVING PLAN		SHEET OF SHEETS

- CONSTRUCTION NOTES:**
- 1 FOR ACP WIDENING DETAIL, SEE SHEET PD3.
 - 2 FOR RAISED MEDIAN DETAILS, SEE SHEET PD2.
 - 3 FOR RAISED TRAFFIC ISLAND DETAILS SEE SHEETS PD1 AND PD3.



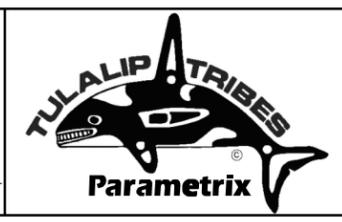
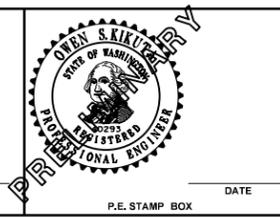
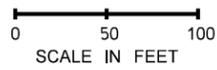
LEGEND

- 1 QUANTITY TAB NOTE
- 1 PV1 QUANTITY TAB NOTE CONTINUED
- EDGE OF PAVEMENT
- GUARDRAIL
- CONCRETE BARRIER
- CONCRETE CURB
- o FLEXIBLE GUIDE POST/BARRIER DELINEATOR
- FENCE
- SAW SAWCUT
- PERMANENT IMPACT ATTENUATOR

CURVE DATA

CURVE	P.I. STATION/OFFSET	BEARING IN	BEARING OUT	DELTA	RADIUS	TANGENT	LENGTH
C1	ES 120+69.42 (63.77' LT)	N 7°21'19" W	N 14°46'45" E	22°08'04.9" RT	203.00'	39.71	78.42
C2	ES 121+75.25 (79.85' LT)	N 14°42'47" E	N 85°17'56" W	100°00'43.6" LT	92.00'	109.67	160.59
C3	SE 119+77.82 (22.77' RT)	N 6°21'08" E	N 4°50'42" W	11°11'50.0" LT	320.00'	31.37	62.54
C4	SE 121+95.81 (9.16' RT)	N 4°50'20" W	N 83°52'43" E	88°43'03.5" RT	62.00'	60.63	96.00
C5	EN 123+30.95 (14.07' LT)	N 86°50'12" W	N 10°10'40" E	97°00'51.7" RT	102.00'	115.32	172.71
C6	WN 124+56.55 (50.60' RT)	N 10°10'40" E	N 7°25'56" W	17°36'35.8" LT	203.00'	31.44	62.39
C7	WN 129+73.02 (20.82' RT)	N 8°00'37" W	N 0°15'47" W	7°44'49.8" RT	2454.00'	166.16	331.81
C8	NW 123+49.29 (5.37' LT)	N 87°34'34" E	N 3°37'57" W	91°12'31.0" LT	69.00'	70.47	109.84
C9	NW 125+64.30 (23.26' LT)	N 3°37'57" W	N 9°45'00" E	13°22'57.6" RT	320.00'	37.54	74.74

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DATE	6/14/2012		
PLOTTED BY	purgabut		
DESIGNED BY	M. TSUN / J. JUN		
ENTERED BY	B. PURGANAN		
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.			
REVISION	DATE	BY	
REGION NO.	STATE	FED.AID PROJ.NO.	
10	WASH		
JOB NUMBER			
CONTRACT NO.	LOCATION NO.		



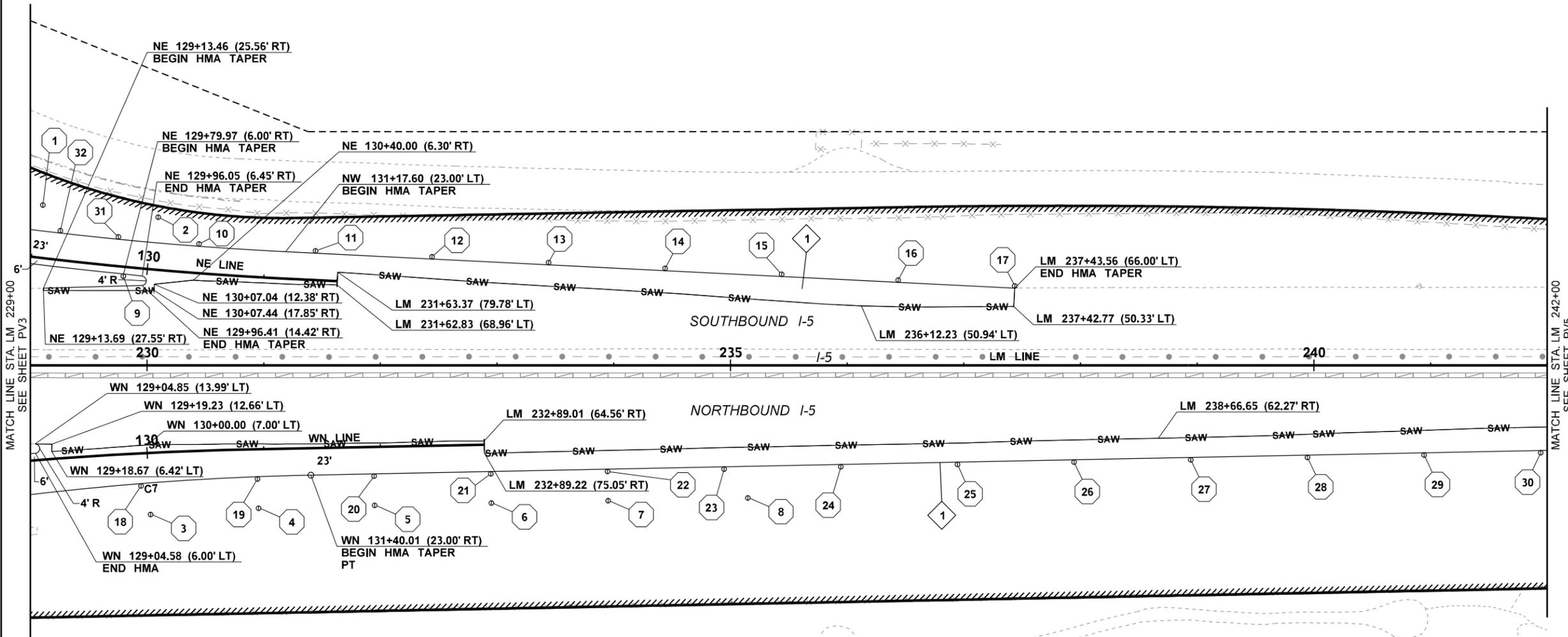
**I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS**

PAVING PLAN

Plot 3
PLAN REF NO
PV3
SHEET
OF
SHEETS

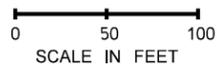
CONSTRUCTION NOTES:

- 1 FOR ACP WIDENING DETAIL, SEE SHEET PD3.
- 2 FOR RAISED MEDIAN DETAILS, SEE SHEET PD2.
- 3 FOR RAISED TRAFFIC ISLAND DETAILS SEE SHEETS PD1 AND PD3.



LEGEND

- 1 QUANTITY TAB NOTE
- 1 QUANTITY TAB NOTE CONTINUED
- EDGE OF PAVEMENT
- GUARDRAIL
- CONCRETE BARRIER
- CONCRETE CURB
- FLEXIBLE GUIDE POST/BARRIER DELINEATOR
- FENCE
- SAW SAWCUT
- PERMANENT IMPACT ATTENUATOR

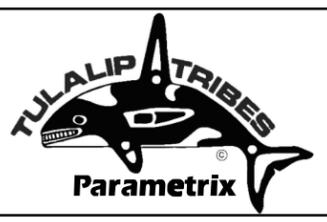


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DATE	6/14/2012			
PLOTTED BY	purgabut			
DESIGNED BY	M. TSUN / J. JUN			
ENTERED BY	B. PURGANAN			
CHECKED BY	O. KIKUTA			
PROJ. ENGR.				
REGIONAL ADM.	REVISION	DATE	BY	

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

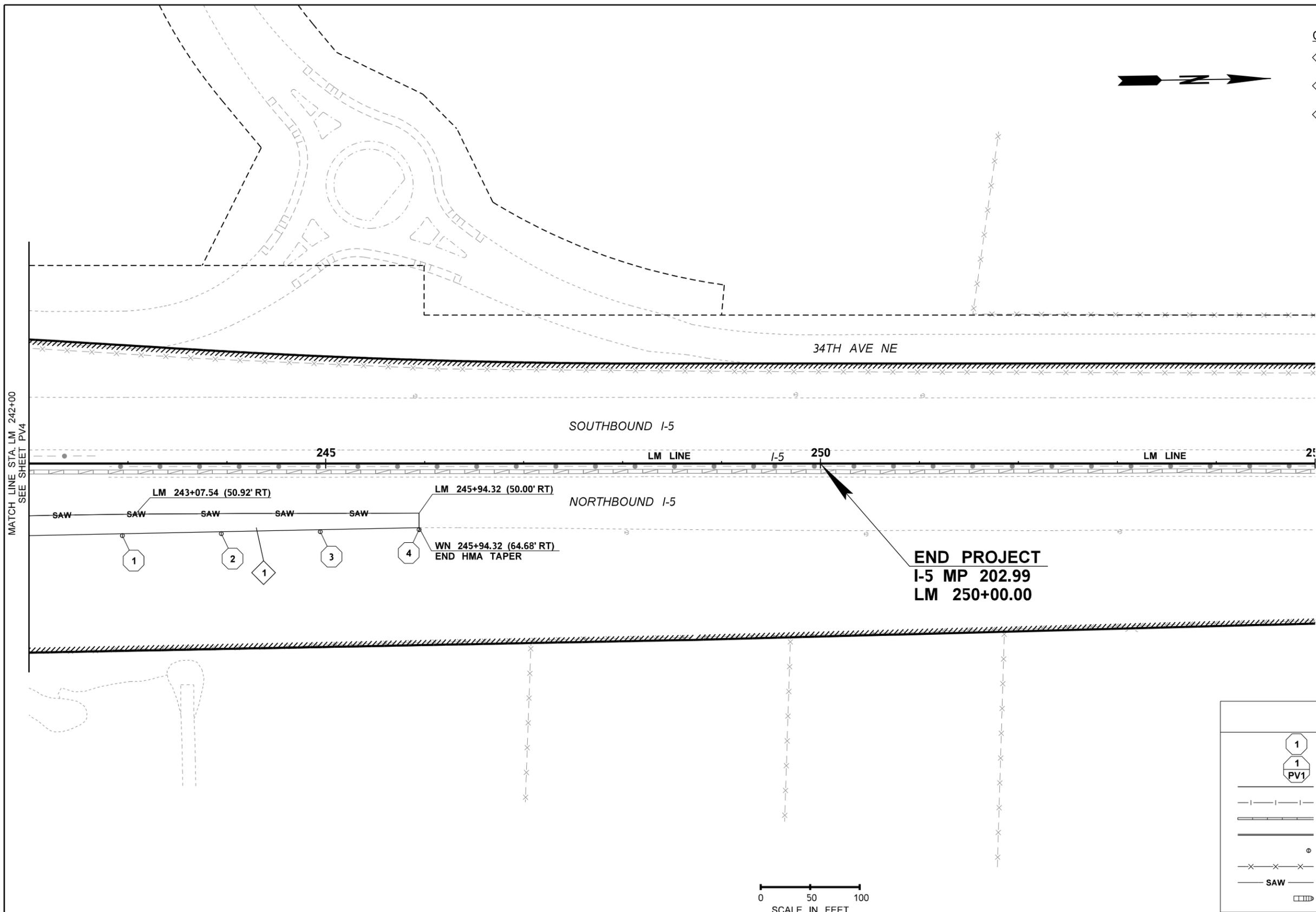
DATE _____
P.E. STAMP BOX

DATE _____
P.E. STAMP BOX



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 4 PLAN REF NO PV4
PAVING PLAN	SHEET OF SHEETS

- CONSTRUCTION NOTES:**
- 1 FOR ACP WIDENING DETAIL, SEE SHEET PD3.
 - 2 FOR RAISED MEDIAN DETAILS, SEE SHEET PD2.
 - 3 FOR RAISED TRAFFIC ISLAND DETAILS SEE SHEETS PD1 AND PD3.



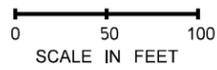
MATCH LINE STA. LM 242+00 SEE SHEET PV4

END PROJECT
I-5 MP 202.99
LM 250+00.00

LEGEND

- 1 QUANTITY TAB NOTE
- 1 PV1 QUANTITY TAB NOTE CONTINUED
- EDGE OF PAVEMENT
- |-|- GUARDRAIL
- ==== CONCRETE BARRIER
- CONCRETE CURB
- o FLEXIBLE GUIDE POST/BARRIER DELINEATOR
- x-x-x-x FENCE
- SAW — SAWCUT
- ▭ PERMANENT IMPACT ATTENUATOR

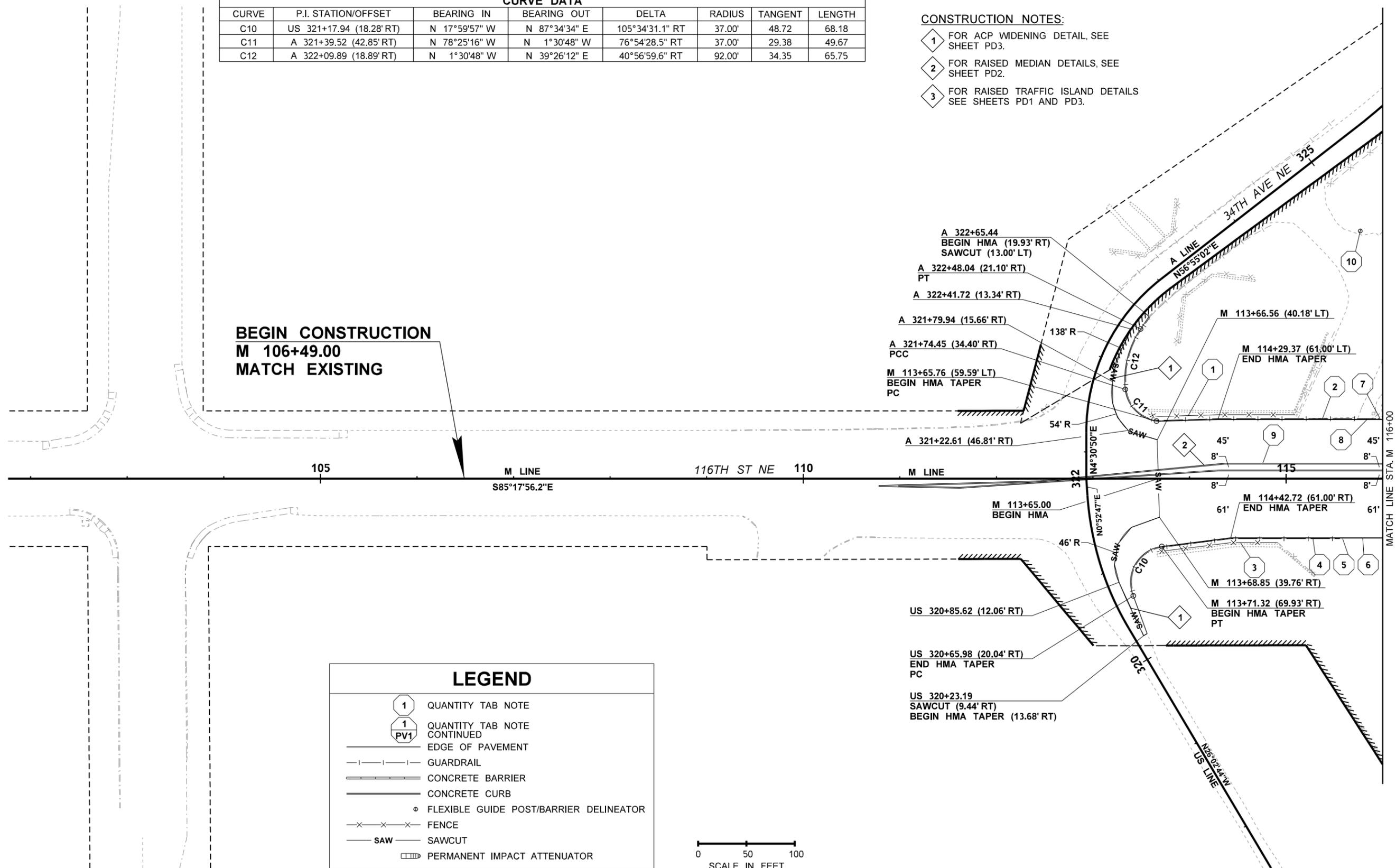
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DATE	6/14/2012			JOB NUMBER			
PLOTTED BY	purgabut			CONTRACT NO.		LOCATION NO.	
DESIGNED BY	M. TSUN / J. JUN						
ENTERED BY	B. PURGANAN						
CHECKED BY	O. KIKUTA						
PROJ. ENGR.							
REGIONAL ADM.		REVISION	DATE	BY			



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 5 PLAN REF NO PV5
PAVING PLAN		SHEET OF SHEETS

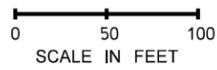
CURVE DATA							
CURVE	P.I. STATION/OFFSET	BEARING IN	BEARING OUT	DELTA	RADIUS	TANGENT	LENGTH
C10	US 321+17.94 (18.28' RT)	N 17°59'57" W	N 87°34'34" E	105°34'31.1" RT	37.00'	48.72	68.18
C11	A 321+39.52 (42.85' RT)	N 78°25'16" W	N 1°30'48" W	76°54'28.5" RT	37.00'	29.38	49.67
C12	A 322+09.89 (18.89' RT)	N 1°30'48" W	N 39°26'12" E	40°56'59.6" RT	92.00'	34.35	65.75

- CONSTRUCTION NOTES:**
- 1 FOR ACP WIDENING DETAIL, SEE SHEET PD3.
 - 2 FOR RAISED MEDIAN DETAILS, SEE SHEET PD2.
 - 3 FOR RAISED TRAFFIC ISLAND DETAILS SEE SHEETS PD1 AND PD3.



**BEGIN CONSTRUCTION
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MATCH EXISTING**

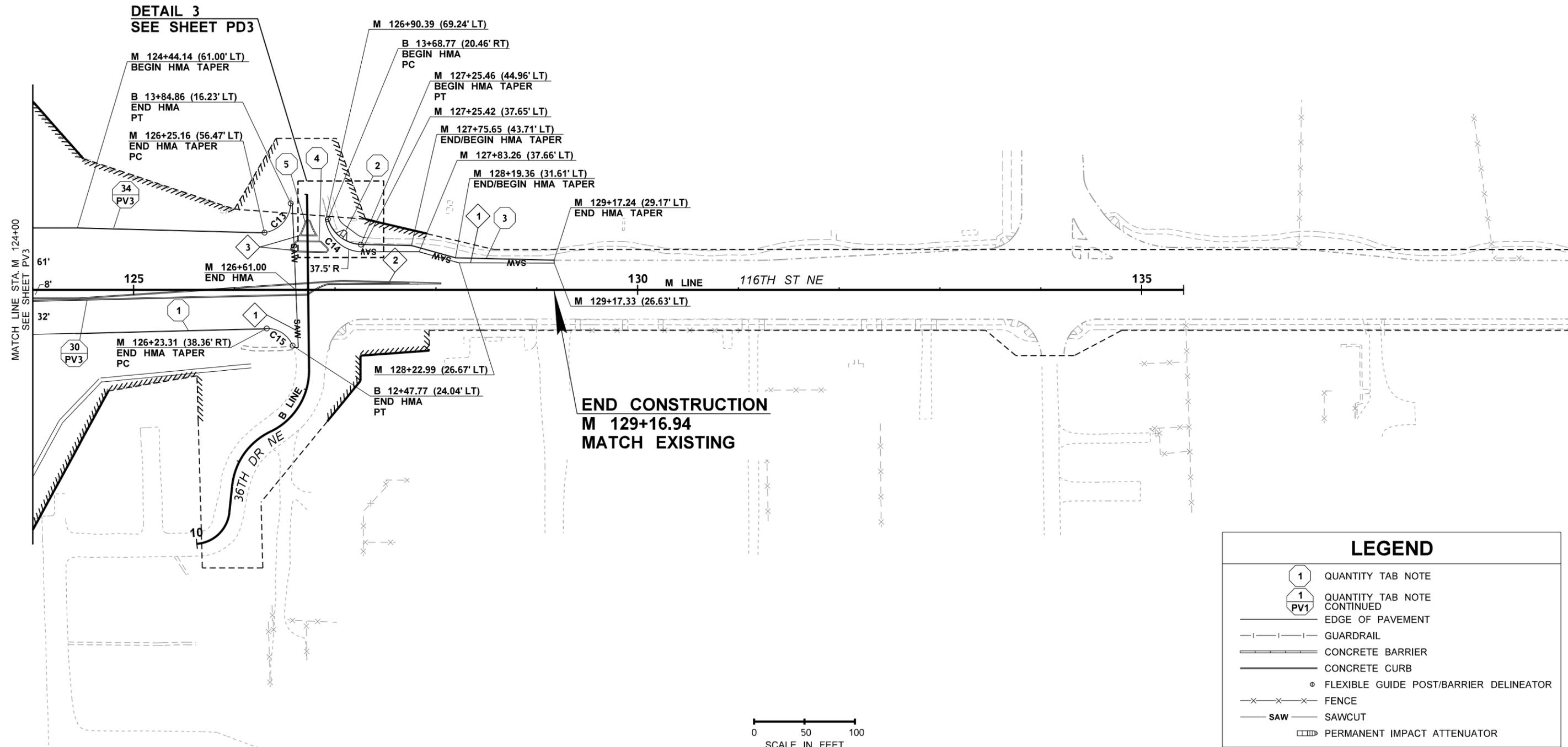
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	QUANTITY TAB NOTE CONTINUED
	EDGE OF PAVEMENT
	GUARDRAIL
	CONCRETE BARRIER
	CONCRETE CURB
	FLEXIBLE GUIDE POST/BARRIER DELINEATOR
	FENCE
	SAWCUT
	PERMANENT IMPACT ATTENUATOR



FILE NAME U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svc\CADD\PS&ESheets\BL1598033_PS_PV.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 6
TIME 11:16:20 AM	DATE 6/14/2012	10	WASH					PLAN REF NO PV6		
PLOTTED BY purgabut	DESIGNED BY M. TSUN / J. JUN	JOB NUMBER		LOCATION NO.				PAVING PLAN		SHEET
ENTERED BY B. PURGANAN	CHECKED BY O. KIKUTA	CONTRACT NO.								OF
PROJ. ENGR.	REVISION	DATE	BY							SHEETS
REGIONAL ADM.						P.E. STAMP BOX				

CURVE DATA								
CURVE	P.I. STATION/OFFSET	BEARING IN	BEARING OUT	DELTA	RADIUS	TANGENT	LENGTH	
C13	B 13+59.43 (17.27' LT)	N 84°40'52" E	N 4°03'41" E	80°37'11.1" LT	30.00'	25.45	42.21	
C14	B 13+44.31 (27.41' RT)	S 14°07'35" E	S 86°07'56" E	72°00'21.3" LT	35.00'	25.43	43.99	
C15	B 12+61.64 (22.87' LT)	N 88°59'47" W	N 19°27'17" W	69°32'29.9" LT	27.00'	18.75	32.77	

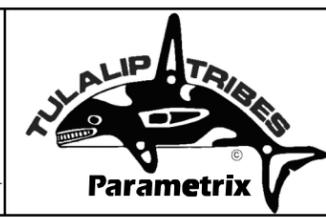
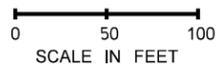
- CONSTRUCTION NOTES:**
- 1 FOR ACP WIDENING DETAIL, SEE SHEET PD3.
 - 2 FOR RAISED MEDIAN DETAILS, SEE SHEET PD2.
 - 3 FOR RAISED TRAFFIC ISLAND DETAILS SEE SHEETS PD1 AND PD3.



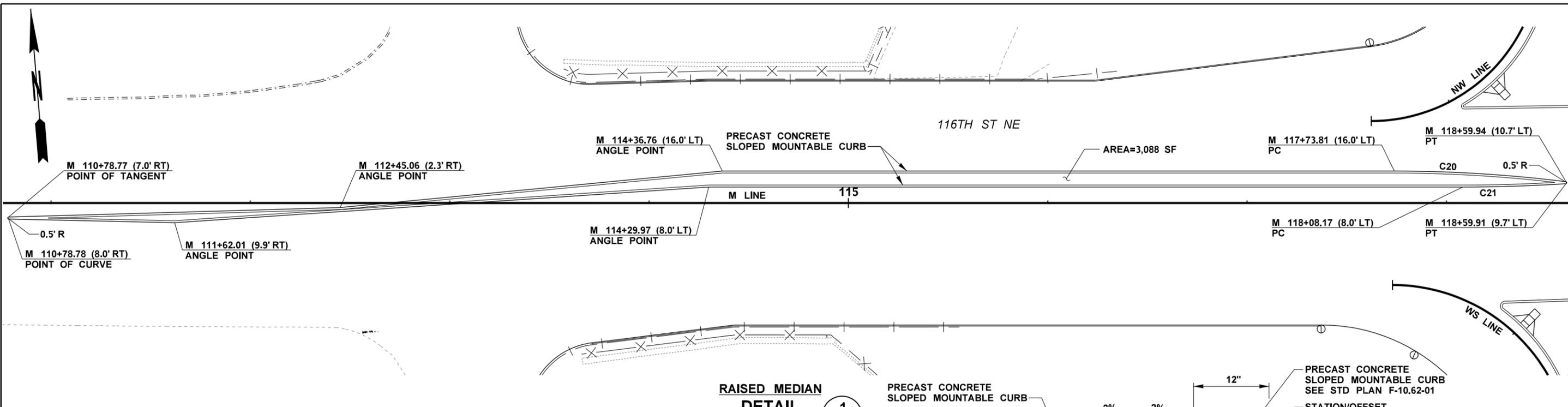
LEGEND	
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	EDGE OF PAVEMENT
	GUARDRAIL
	CONCRETE BARRIER
	CONCRETE CURB
	FLEXIBLE GUIDE POST/BARRIER DELINEATOR
	FENCE
	SAWCUT
	PERMANENT IMPACT ATTENUATOR

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svc\CADD\IPS&ESheets\BL1598033_PS_PV.dgn				
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DESIGNED BY	M. TSUN / J. JUN				
ENTERED BY	B. PURGANAN				
CHECKED BY	O. KIKUTA				
PROJ. ENGR.					
REGIONAL ADM.	REVISION	DATE	BY		

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

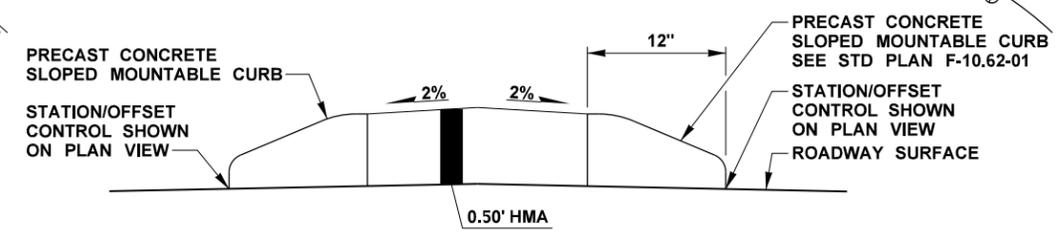


I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 7 PLAN REF NO PV7
PAVING PLAN		SHEET OF SHEETS

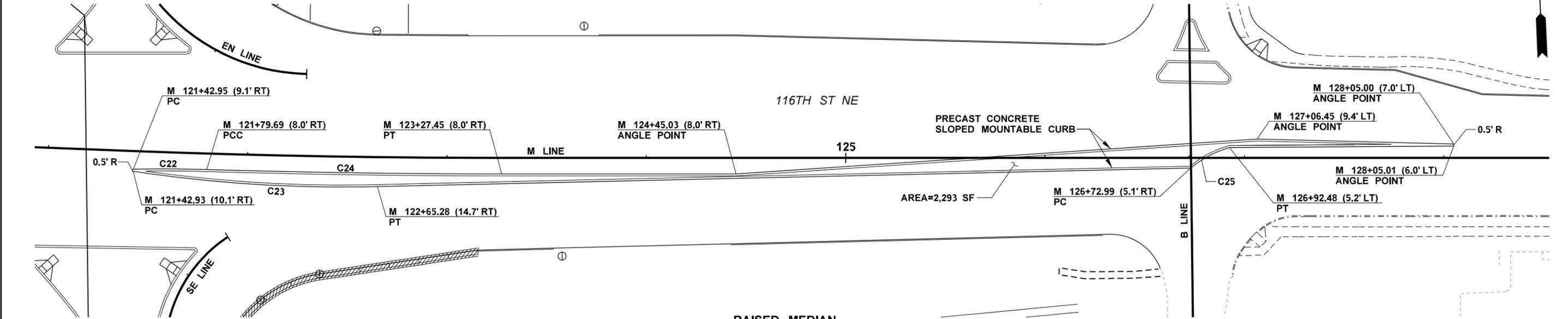


CURVE DATA							
CURVE	P.I. STATION/OFFSET	BEARING IN	BEARING OUT	DELTA	RADIUS	TANGENT	LENGTH
C20	M 118+17.04 (16.00' LT)	S 85°17'56" E	S 78°13'14" E	7°04'42.2" RT	699.00'	43.23	86.36
C21	M 118+34.07 (8.00' LT)	N 85°17'56" W	N 89°00'44" W	3°42'47.9" RT	799.00'	25.90	51.78
C22	M 121+61.29 (8.03' RT)	N 88°53'23" W	N 85°52'16" W	10°04'29.3" LT	699.00'	61.61	122.91
C23	M 122+03.91 (17.42' RT)	S 78°58'20" E	S 89°02'49" E	3°01'07.5" LT	699.00'	18.42	36.83
C24	M 122+53.56 (8.55' RT)	N 85°52'16" W	N 87°33'51" W	1°41'35.5" RT	5008.00'	74.00	148.00
C25	M 126+81.66 (2.06' LT)	N 52°50'09" E	N 76°22'43" E	23°32'34.1" RT	54.00'	11.25	22.19

**RAISED MEDIAN
DETAIL 1**
SCALE: 1" = 50'



RAISED MEDIAN SECTION
NOT TO SCALE



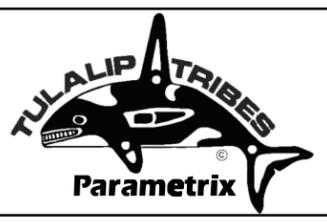
**RAISED MEDIAN
DETAIL 2**
SCALE: 1" = 50'

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\PS&ESheets\BL1598033_DE_PD.dgn		
TIME	11:17:45 AM		
DATE	6/14/2012		
PLOTTED BY	purgabut		
DESIGNED BY	M. TSUN / J. JUN		
ENTERED BY	B. PURGANAN		
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.	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

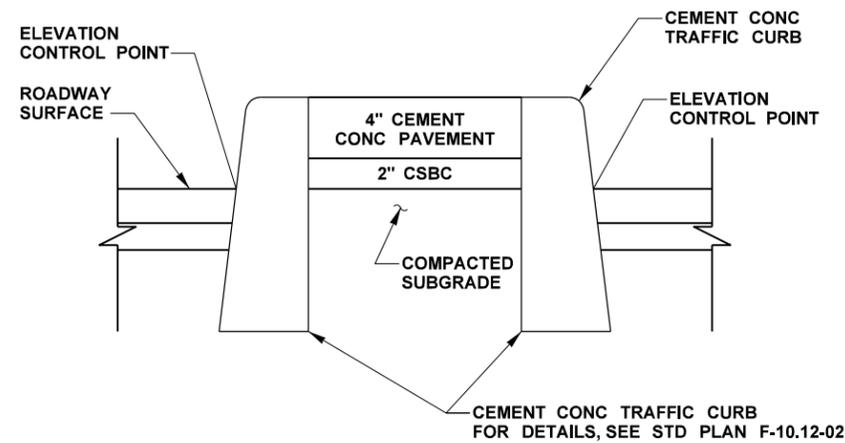


I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

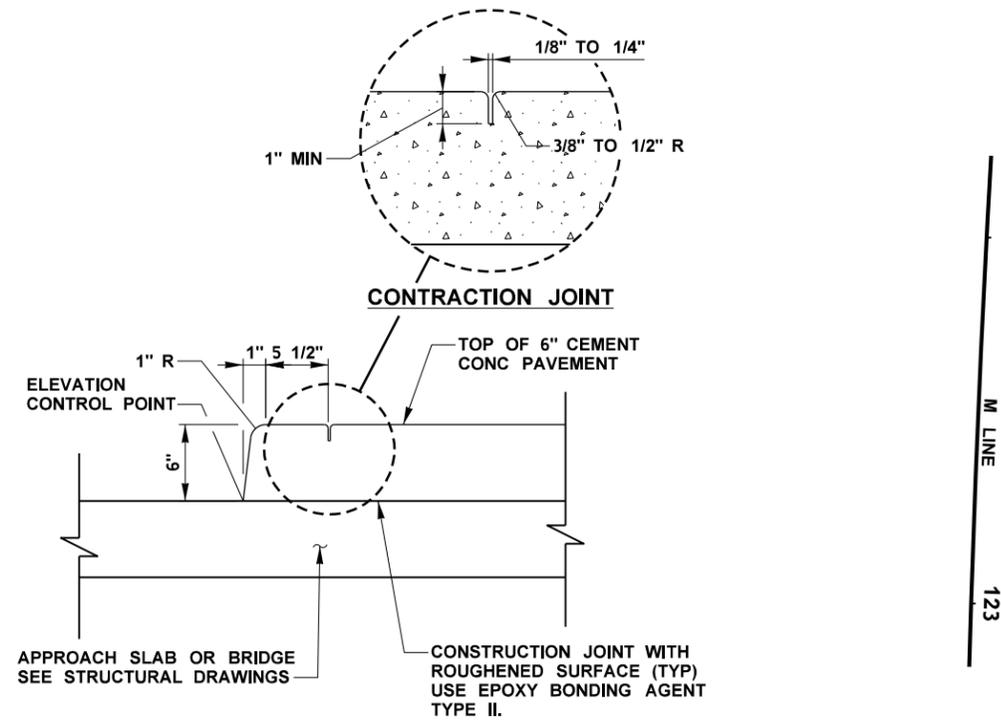
Plot 2
PLAN REF NO
PD2

SHEET
OF
SHEETS

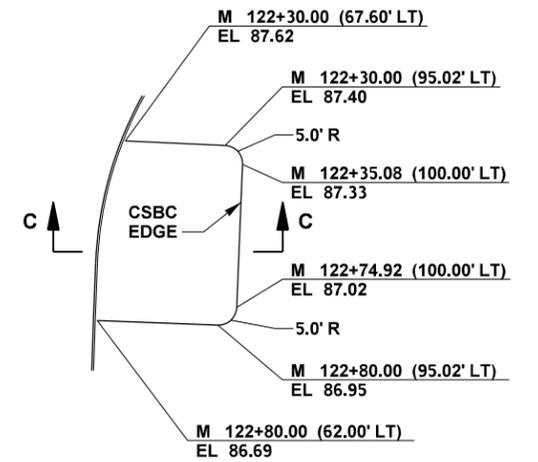
PAVING DETAILS



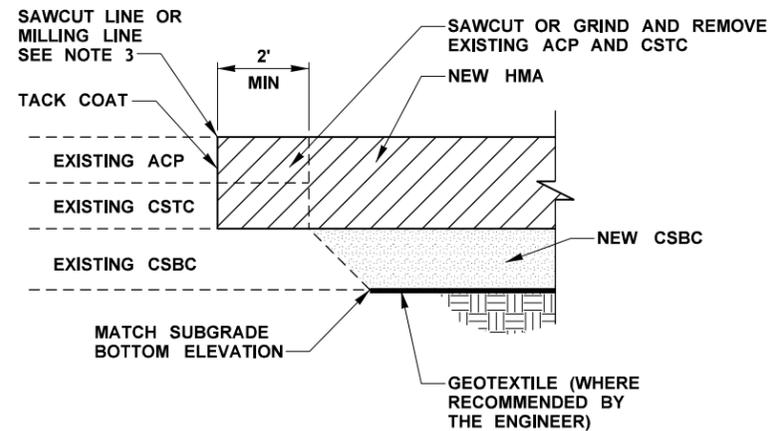
RAISED TRAFFIC ISLAND
SECTION A
NOT TO SCALE



RAISED TRAFFIC ISLAND
SECTION B
NOT TO SCALE



CABINET PAD
DETAIL 2
SCALE: 1" = 50'



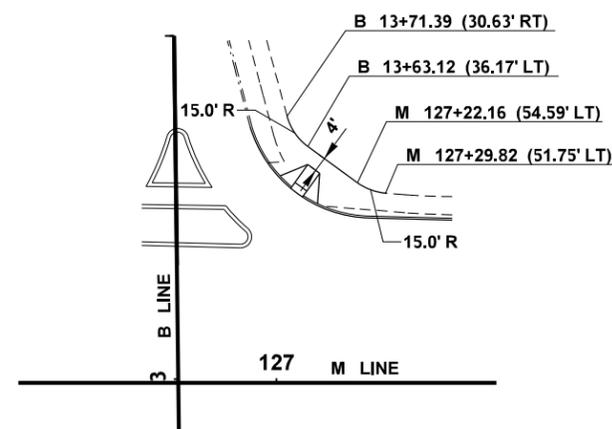
ACP WIDENING
DETAIL 1
NOT TO SCALE

NOTES:

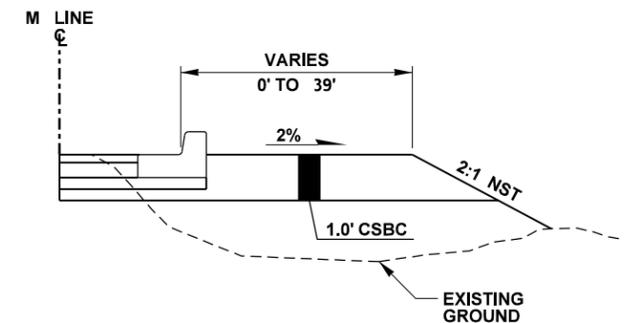
1. SAWCUT OR GRIND EXISTING ACP WHERE REQUIRED TO PROVIDE VERTICAL EDGE.
2. MAINTAIN EXISTING CSBC UNDER EXISTING PAVEMENT. DO NOT ALLOW COURSE TO SLOUGH AND UNDERMINE.
3. CONTRACTOR MAY GRIND EXISTING ASPHALT CONCRETE PAVEMENT TO FORM A NEAT CONSTRUCTION JOINT LINE AS AN ALTERNATIVE TO SAW CUTTING.

LEGEND:

- ACP ASPHALT CONCRETE PAVEMENT
- CSTC CRUSHED SURFACING TOP COURSE
- CSBC CRUSHED SURFACING BASE COURSE
- HMA HOT MIXED ASPHALT



SIDEWALK
DETAIL 3
SCALE: 1" = 50'



SECTION C
NOT TO SCALE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADDIPS&ESheets\BL1598033_DE_PD.dgn				
TIME	11:18:24 AM	REGION NO.	10	STATE	WASH
DATE	6/14/2012	FED.AID PROJ.NO.			
PLOTTED BY	purgabut	JOB NUMBER			
DESIGNED BY	M. TSUN / J. JUN	CONTRACT NO.			
ENTERED BY	B. PURGANAN	LOCATION NO.			
CHECKED BY	O. KIKUTA	REVISION			
PROJ. ENGR.		DATE			
REGIONAL ADM.		BY			

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX

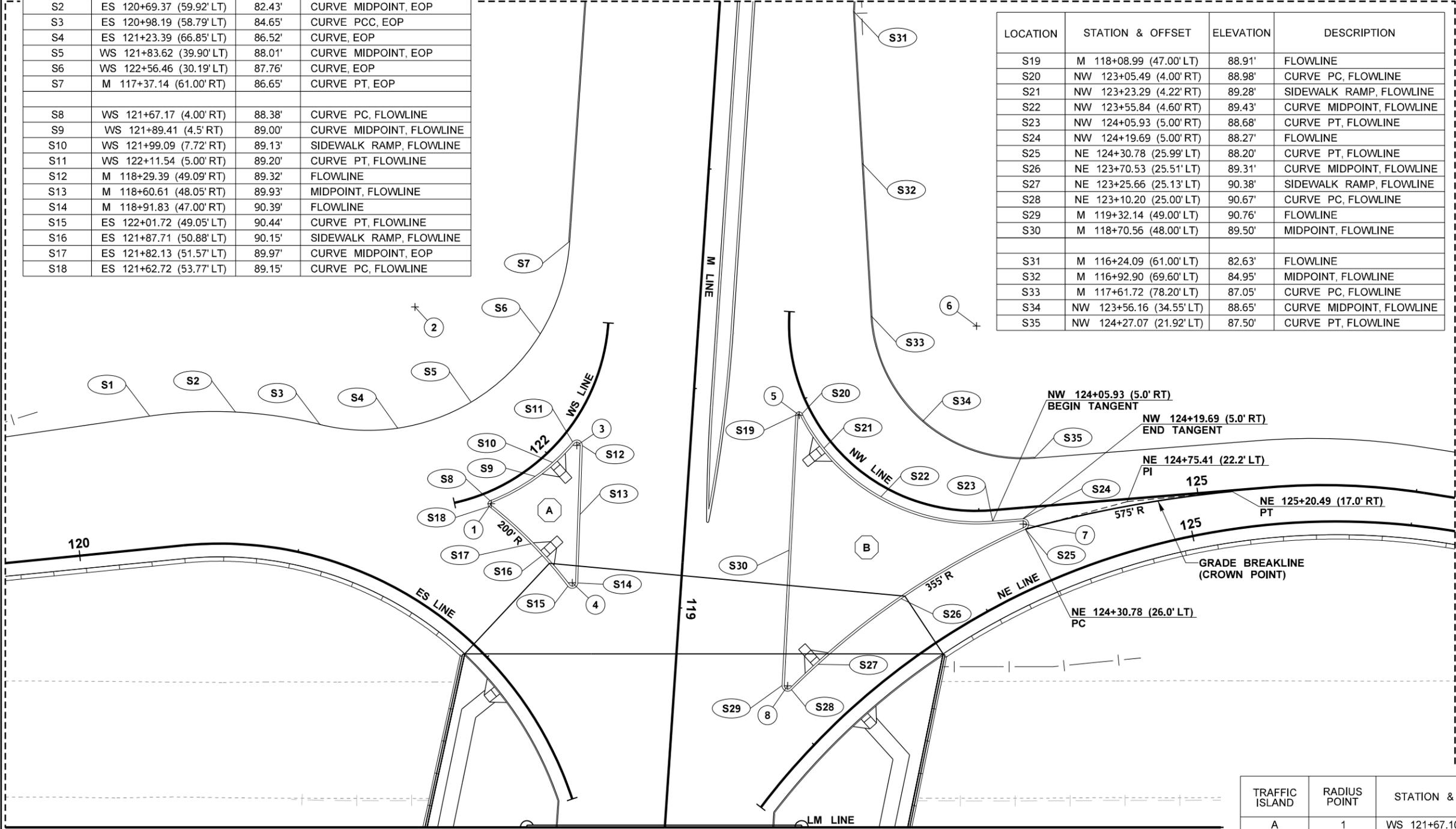


I-5	Plot 3
116TH ST NE	PLAN REF NO
INTERCHANGE IMPROVEMENTS	PD3
PAVING DETAILS	SHEET
	OF
	SHEETS



LOCATION	STATION & OFFSET	ELEVATION	DESCRIPTION
S1	ES 120+37.95 (60.01' LT)	80.13'	CURVE PC, EOP
S2	ES 120+69.37 (59.92' LT)	82.43'	CURVE MIDPOINT, EOP
S3	ES 120+98.19 (58.79' LT)	84.65'	CURVE PCC, EOP
S4	ES 121+23.39 (66.85' LT)	86.52'	CURVE, EOP
S5	WS 121+83.62 (39.90' LT)	88.01'	CURVE MIDPOINT, EOP
S6	WS 122+56.46 (30.19' LT)	87.76'	CURVE, EOP
S7	M 117+37.14 (61.00' RT)	86.65'	CURVE PT, EOP
S8	WS 121+67.17 (4.00' RT)	88.38'	CURVE PC, FLOWLINE
S9	WS 121+89.41 (4.5' RT)	89.00'	CURVE MIDPOINT, FLOWLINE
S10	WS 121+99.09 (7.72' RT)	89.13'	SIDEWALK RAMP, FLOWLINE
S11	WS 122+11.54 (5.00' RT)	89.20'	CURVE PT, FLOWLINE
S12	M 118+29.39 (49.09' RT)	89.32'	FLOWLINE
S13	M 118+60.61 (48.05' RT)	89.93'	MIDPOINT, FLOWLINE
S14	M 118+91.83 (47.00' RT)	90.39'	FLOWLINE
S15	ES 122+01.72 (49.05' LT)	90.44'	CURVE PT, FLOWLINE
S16	ES 121+87.71 (50.88' LT)	90.15'	SIDEWALK RAMP, FLOWLINE
S17	ES 121+82.13 (51.57' LT)	89.97'	CURVE MIDPOINT, EOP
S18	ES 121+62.72 (53.77' LT)	89.15'	CURVE PC, FLOWLINE

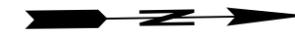
LOCATION	STATION & OFFSET	ELEVATION	DESCRIPTION
S19	M 118+08.99 (47.00' LT)	88.91'	FLOWLINE
S20	NW 123+05.49 (4.00' RT)	88.98'	CURVE PC, FLOWLINE
S21	NW 123+23.29 (4.22' RT)	89.28'	SIDEWALK RAMP, FLOWLINE
S22	NW 123+55.84 (4.60' RT)	89.43'	CURVE MIDPOINT, FLOWLINE
S23	NW 124+05.93 (5.00' RT)	88.68'	CURVE PT, FLOWLINE
S24	NW 124+19.69 (5.00' RT)	88.27'	FLOWLINE
S25	NE 124+30.78 (25.99' LT)	88.20'	CURVE PT, FLOWLINE
S26	NE 123+70.53 (25.51' LT)	89.31'	CURVE MIDPOINT, FLOWLINE
S27	NE 123+25.66 (25.13' LT)	90.38'	SIDEWALK RAMP, FLOWLINE
S28	NE 123+10.20 (25.00' LT)	90.67'	CURVE PC, FLOWLINE
S29	M 119+32.14 (49.00' LT)	90.76'	FLOWLINE
S30	M 118+70.56 (48.00' LT)	89.50'	MIDPOINT, FLOWLINE
S31	M 116+24.09 (61.00' LT)	82.63'	FLOWLINE
S32	M 116+92.90 (69.60' LT)	84.95'	MIDPOINT, FLOWLINE
S33	M 117+61.72 (78.20' LT)	87.05'	CURVE PC, FLOWLINE
S34	NW 123+56.16 (34.55' LT)	88.65'	CURVE MIDPOINT, FLOWLINE
S35	NW 124+27.07 (21.92' LT)	87.50'	CURVE PT, FLOWLINE



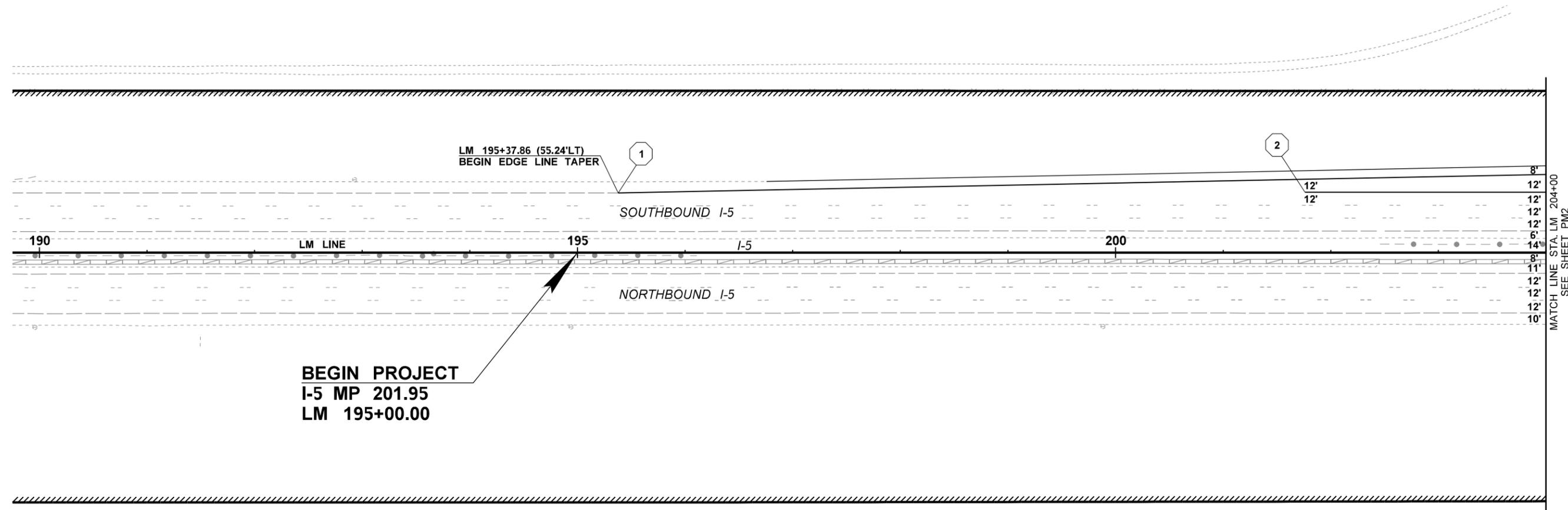
DETAIL 1
SCALE: 1" = 50'

TRAFFIC ISLAND	RADIUS POINT	STATION & OFFSET	RADIUS AT FACE OF CURB	RADIUS AT BACK OF CURB	RADIUS AT SIDEWALK
A	1	WS 121+67.10 (5.50' RT)	1.5'	0.5'	-
A	2	ES 121+16.6 (121.47' LT)	94.5'	95.5'	-
A	3	WS 122+11.48 (82.45' RT)	2.5'	1.5'	-
A	4	ES 122+01.94 (51.54' LT)	2.5'	1.5'	-
B	5	NW 123+05.47 (5.50' RT)	1.5'	0.5'	-
B	6	NW 124+05.93 (84.00' LT)	89'	90'	-
B	7	NW 124+19.69 (7.50' RT)	2.5'	1.5'	-
B	8	NE 123+10.18 (27.50' LT)	2.5'	1.5'	-

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svcs\CADDIPS&ESheets\BL1598033_DE_PC.dgn				FED.AID PROJ.NO. REGION NO. STATE 10 WASH				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 1
TIME 11:19:06 AM DATE 6/14/2012 PLOTTED BY purgabut DESIGNED BY M. TSUN / J. JUN ENTERED BY B. PURGANAN CHECKED BY O. KIKUTA PROJ. ENGR. REGIONAL ADM.									PLAN REF NO
REVISION				CONTRACT NO.		LOCATION NO.		PC1	
DATE				BY		PAVING CONTROL		SHEET	
DATE				DATE				OF	
DATE				DATE				SHEETS	

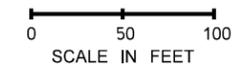


- GENERAL NOTES:**
1. FOR LONGITUDINAL PAVEMENT MARKING, SEE WSDOT STANDARD PLAN M-20.10-02.
 2. FOR GORE AREA MARKING, SEE WSDOT STANDARD PLAN M-2.20-02.
 3. FOR RAMP RPM, SEE WSDOT STANDARD PLAN M-20.30-02.



LEGEND

	QUANTITY TAB NOTE		HOV
	QUANTITY TAB NOTE CONTINUED		ONLY
	EDGE OF SHOULDER		TYPE 1S TRAFFIC ARROW
	EDGE LINE		TYPE 2SL (LEFT) TRAFFIC ARROW
	LANE LINE		TYPE 2SR (RIGHT) TRAFFIC ARROW
	DROP LANE LINE		DRAINAGE MARKING
	DOTTED EXTENSION LINE		CROSS CULVERT MARKER
	WIDE LINE		
	STOP LINE		
	CROSSWALK LINE		



FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\199Svcs\CADD\PS&ESheets\BL1598033_PS_PM.dgn				REGION NO. STATE		FED.AID PROJ.NO.		Plot 1	
TIME 11:22:35 AM				10 WASH				PLAN REF NO	
DATE 6/14/2012								PM1	
PLOTTED BY purgabut				JOB NUMBER				SHEET	
DESIGNED BY M. TSUN				CONTRACT NO.		LOCATION NO.		OF	
ENTERED BY B. PURGANAN								SHEETS	
CHECKED BY O. KIKUTA									
PROJ. ENGR.									
REGIONAL ADM.				REVISION		DATE BY			

P.E. STAMP BOX

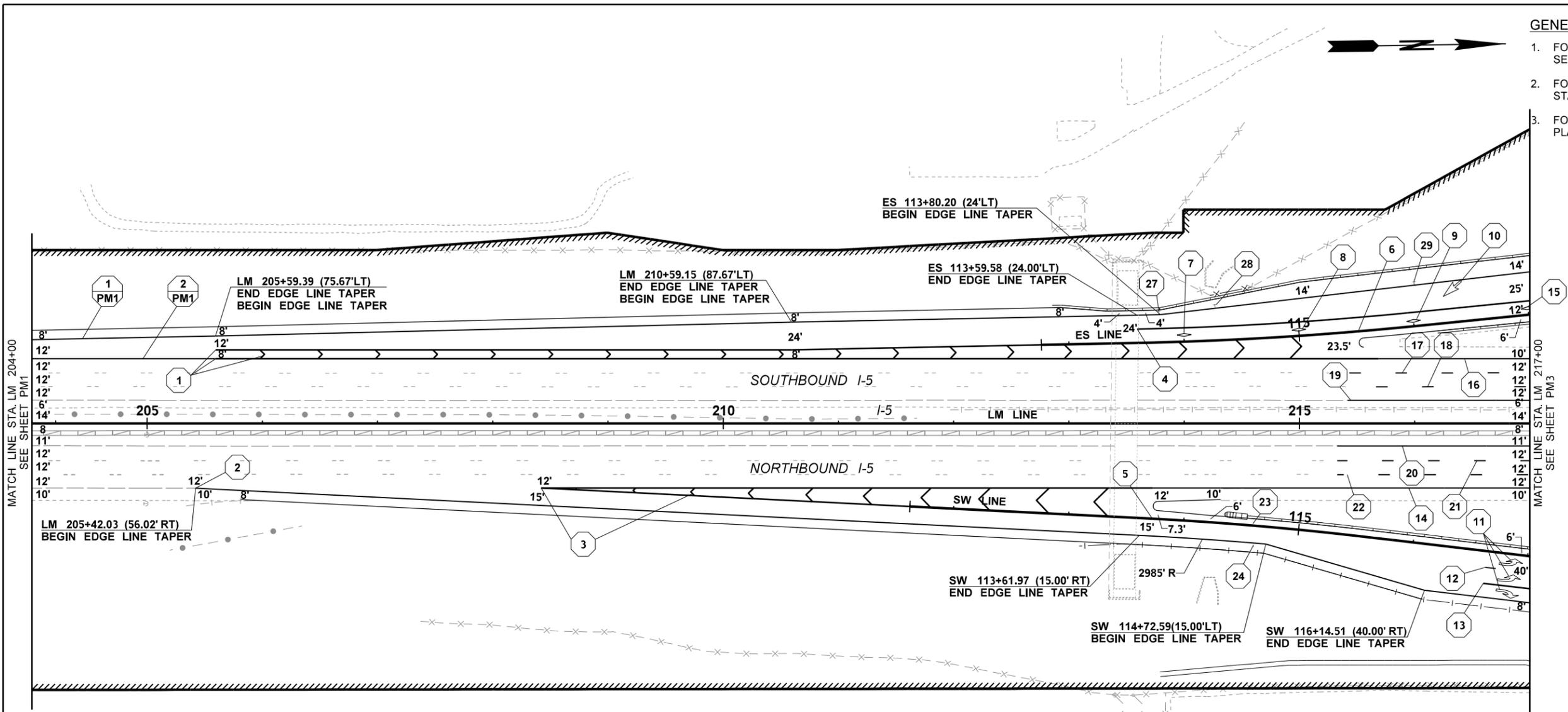
Parametrix

I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

PAVEMENT MARKING PLAN

GENERAL NOTES:

1. FOR LONGITUDINAL PAVEMENT MARKING, SEE WSDOT STANDARD PLAN M-20.10-02.
2. FOR GORE AREA MARKING, SEE WSDOT STANDARD PLAN M-2.20-02.
3. FOR RAMP RPM, SEE WSDOT STANDARD PLAN M-20.30-02.

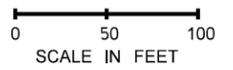


MATCH LINE STA. LM 204+00
SEE SHEET PM1

MATCH LINE STA. LM 217+00
SEE SHEET PM3

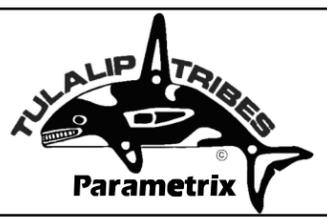
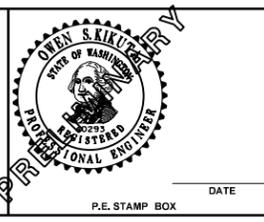
LEGEND

	QUANTITY TAB NOTE		HOV
	QUANTITY TAB NOTE CONTINUED		ONLY
	EDGE OF SHOULDER		TYPE 1S TRAFFIC ARROW
	EDGE LINE		TYPE 2SL (LEFT) TRAFFIC ARROW
	LANE LINE		TYPE 2SR (RIGHT) TRAFFIC ARROW
	DROP LANE LINE		DRAINAGE MARKING
	DOTTED EXTENSION LINE		CROSS CULVERT MARKER
	WIDE LINE		
	STOP LINE		
	CROSSWALK LINE		



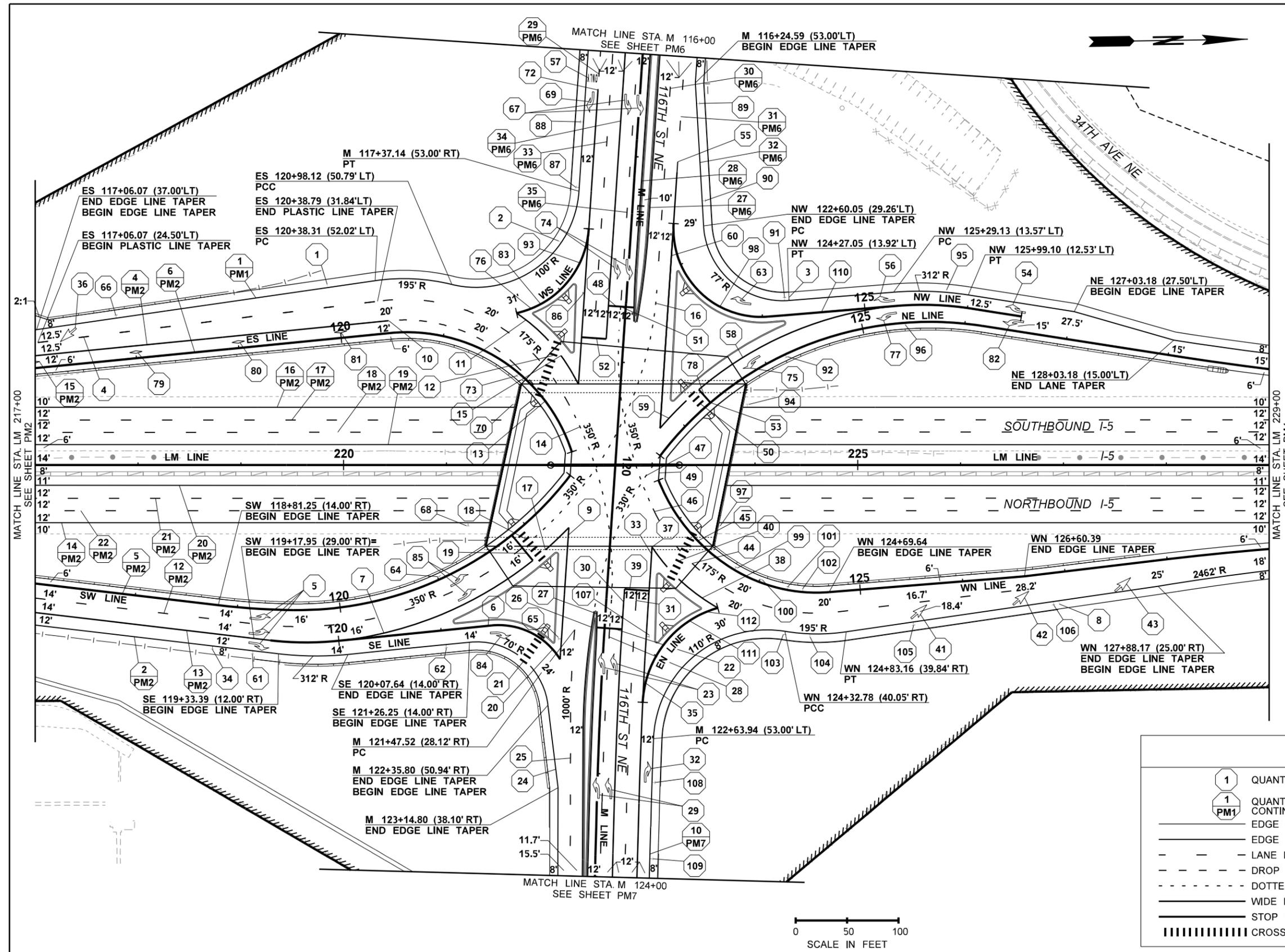
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TIME	11:22:46 AM			
DATE	6/14/2012			
PLOTTED BY	purgabut			
DESIGNED BY	M. TSUN			
ENTERED BY	B. PURGANAN			
CHECKED BY	O. KIKUTA			
PROJ. ENGR.				
REGIONAL ADM.				
	REVISION	DATE	BY	

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



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 2
PAVEMENT MARKING PLAN		PLAN REF NO PM2
		SHEET OF SHEETS

- GENERAL NOTES:**
- FOR LONGITUDINAL PAVEMENT MARKING, SEE WSDOT STANDARD PLAN M-20.10-02.
 - FOR GORE AREA MARKING, SEE WSDOT STANDARD PLAN M-2.20-02.
 - FOR RAMP RPM, SEE WSDOT STANDARD PLAN M-20.30-02.

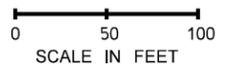


MATCH LINE STA. LM 229+00 SEE SHEET PM4

MATCH LINE STA. LM 217+00 SEE SHEET PM2

LEGEND

- | | | | |
|--|-----------------------------|--|--------------------------------|
| | QUANTITY TAB NOTE | | HOV |
| | QUANTITY TAB NOTE CONTINUED | | ONLY |
| | EDGE OF SHOULDER | | TYPE 1S TRAFFIC ARROW |
| | EDGE LINE | | TYPE 2SL (LEFT) TRAFFIC ARROW |
| | LANE LINE | | TYPE 2SR (RIGHT) TRAFFIC ARROW |
| | DROP LANE LINE | | DRAINAGE MARKING |
| | DOTTED EXTENSION LINE | | CROSS CULVERT MARKER |
| | WIDE LINE | | |
| | STOP LINE | | |
| | CROSSWALK LINE | | |



FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svcs\CADD\PS&ESheets\1598033_PS_PM.dgn		
TIME	11:22:56 AM		
DATE	6/14/2012		
PLOTTED BY	purgabut		
DESIGNED BY	M. TSUN		
ENTERED BY	B. PURGANAN		
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.			
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



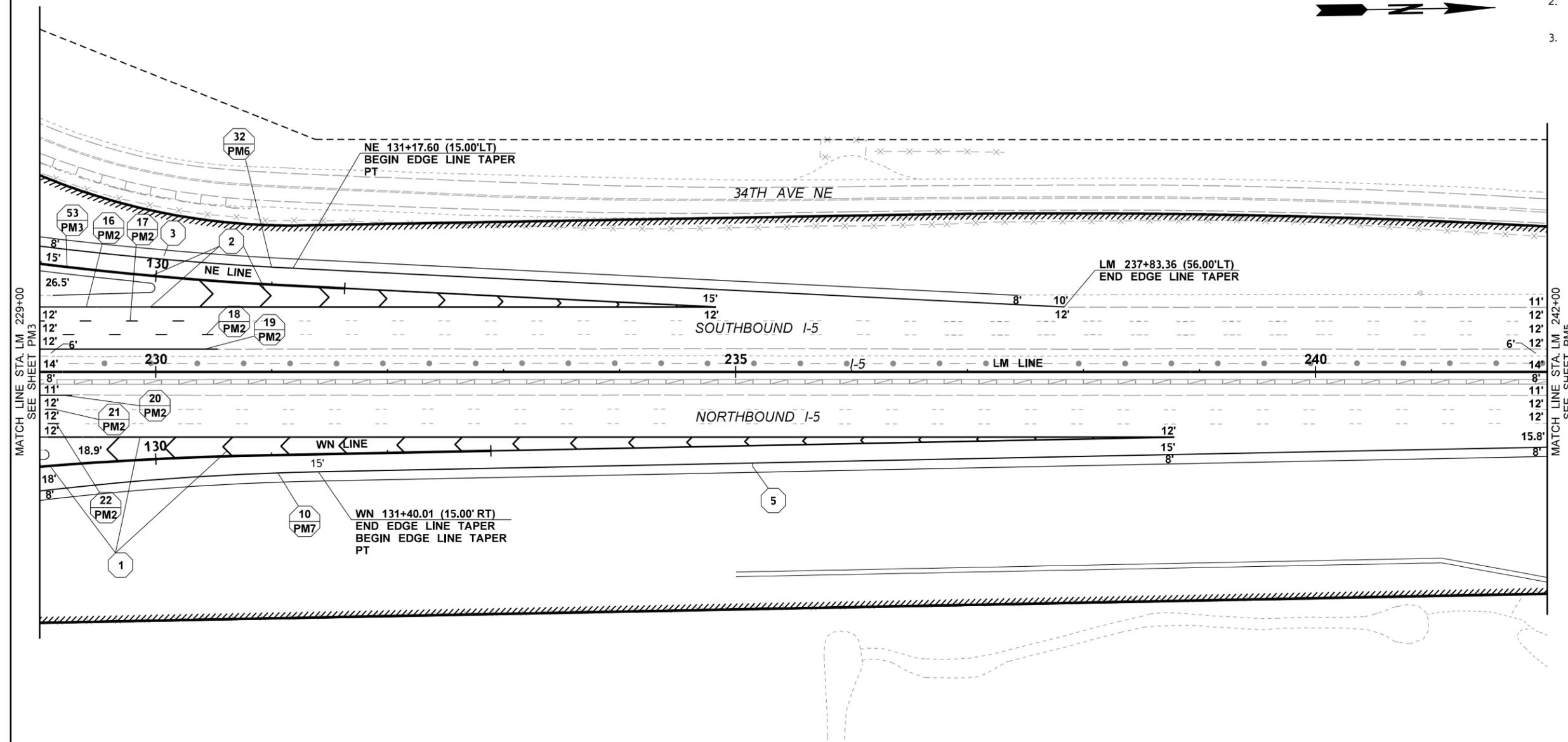
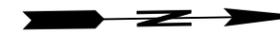
**I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS**

PAVEMENT MARKING PLAN

Plot 3
PLAN REF NO PM3
SHEET OF SHEETS

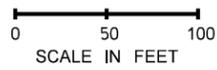
GENERAL NOTES:

1. FOR LONGITUDINAL PAVEMENT MARKING, SEE WSDOT STANDARD PLAN M-20.10-02.
2. FOR GORE AREA MARKING, SEE WSDOT STANDARD PLAN M-2.20-02.
3. FOR RAMP RPM, SEE WSDOT STANDARD PLAN M-20.30-02.

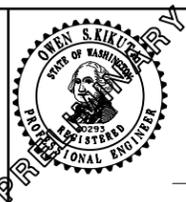


LEGEND

	QUANTITY TAB NOTE		HOV
	QUANTITY TAB NOTE CONTINUED		ONLY
	EDGE OF SHOULDER		TYPE 1S TRAFFIC ARROW
	EDGE LINE		TYPE 2SL (LEFT) TRAFFIC ARROW
	LANE LINE		TYPE 2SR (RIGHT) TRAFFIC ARROW
	DROP LANE LINE		DRAINAGE MARKING
	DOTTED EXTENSION LINE		CROSS CULVERT MARKER
	WIDE LINE		
	STOP LINE		
	CROSSWALK LINE		



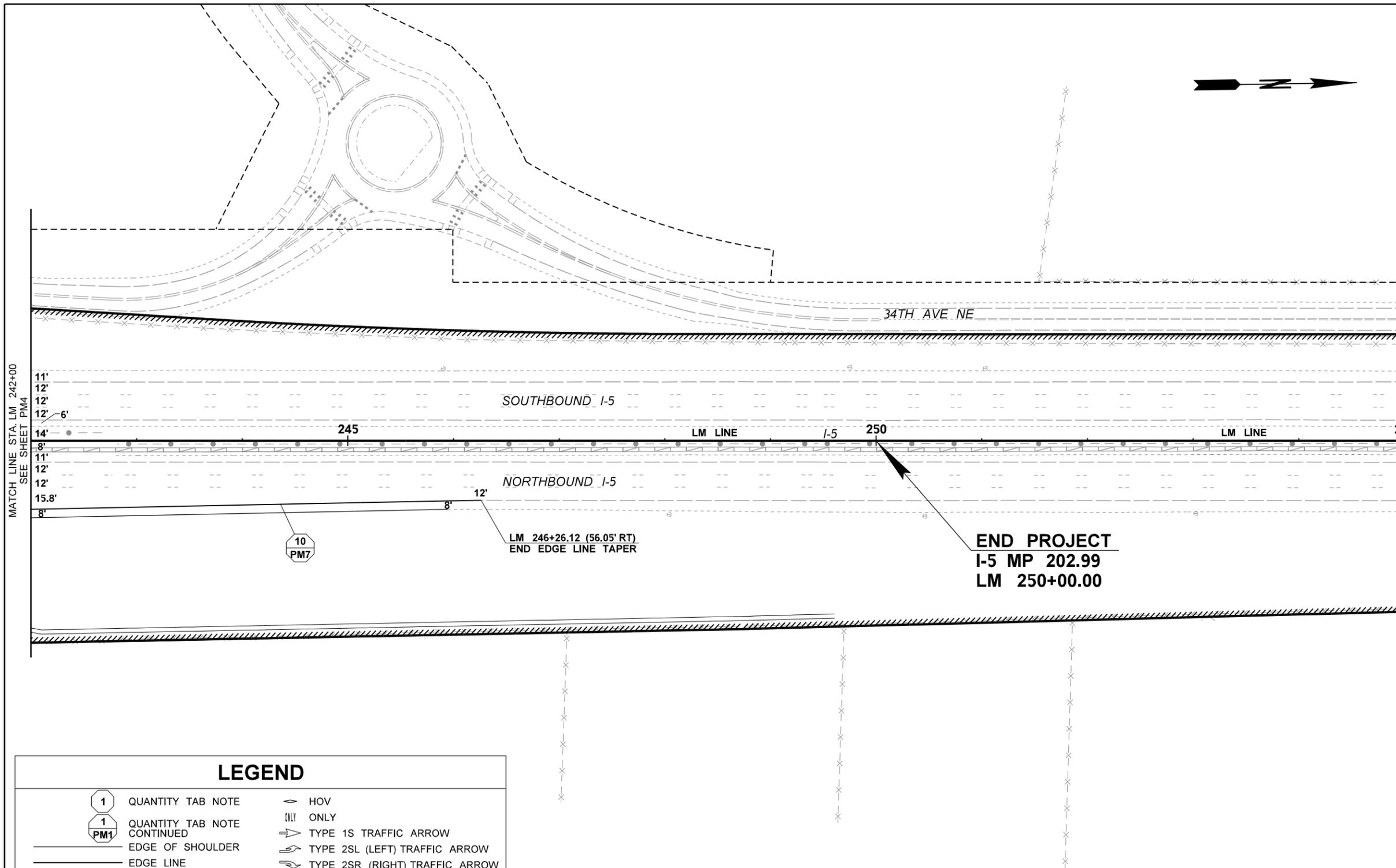
FILE NAME: U:\Bell\Projects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3\99Svcs\CADD\PS&ESheets\BL1598033_PS_PM.dgn				REGION NO. STATE		FED.AID PROJ.NO.		Plot 4	
TIME: 11:23:07 AM				10 WASH				PLAN REF NO. PM4	
DATE: 6/14/2012				JOB NUMBER				SHEET	
PLOTTED BY: purgabut				CONTRACT NO.		LOCATION NO.		OF	
DESIGNED BY: M. TSUN								SHEETS	
ENTERED BY: B. PURGANAN									
CHECKED BY: O. KIKUTA									
PROJ. ENGR.									
REGIONAL ADM.				REVISION		DATE BY			



**I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS**

PAVEMENT MARKING PLAN

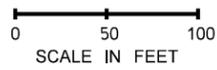
- GENERAL NOTES:**
- FOR LONGITUDINAL PAVEMENT MARKING, SEE WSDOT STANDARD PLAN M-20.10-02.
 - FOR GORE AREA MARKING, SEE WSDOT STANDARD PLAN M-2.20-02.
 - FOR RAMP RPM, SEE WSDOT STANDARD PLAN M-20.30-02.



MATCH LINE STA. LM 242+00
SEE SHEET PM4

LEGEND

- | | | | |
|--|-----------------------------|--|--------------------------------|
| | QUANTITY TAB NOTE | | HOV |
| | QUANTITY TAB NOTE CONTINUED | | ONLY |
| | EDGE OF SHOULDER | | TYPE 1S TRAFFIC ARROW |
| | EDGE LINE | | TYPE 2SL (LEFT) TRAFFIC ARROW |
| | LANE LINE | | TYPE 2SR (RIGHT) TRAFFIC ARROW |
| | DROP LANE LINE | | DRAINAGE MARKING |
| | DOTTED EXTENSION LINE | | CROSS CULVERT MARKER |
| | WIDE LINE | | |
| | STOP LINE | | |
| | CROSSWALK LINE | | |



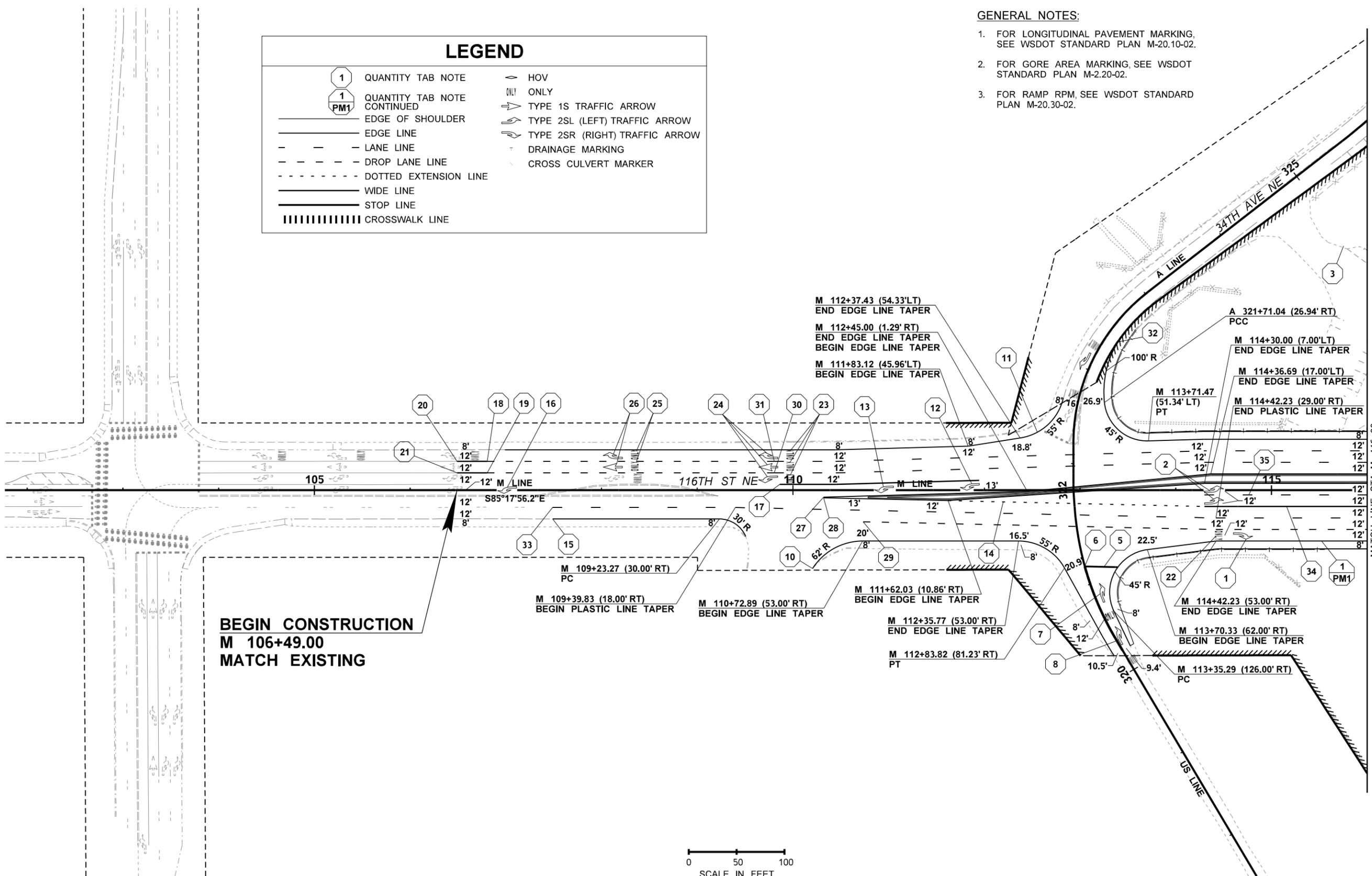
FILE NAME: U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svcs\CADD\PS&ESheets\BL1598033_PS_PM.dgn		REGION NO. STATE		FED.AID PROJ.NO.		Plot 5	
TIME: 11:23:26 AM		10	WASH			PLAN REF NO	
DATE: 6/14/2012		JOB NUMBER				PM5	
PLOTTED BY: purgabut		CONTRACT NO.		LOCATION NO.		SHEET	
DESIGNED BY: M. TSUN						OF	
ENTERED BY: B. PURGANAN						SHEETS	
CHECKED BY: O. KIKUTA							
PROJ. ENGR.							
REGIONAL ADM.	REVISION	DATE	BY	P.E. STAMP BOX	DATE	I-5 116TH ST NE INTERCHANGE IMPROVEMENTS PAVEMENT MARKING PLAN	



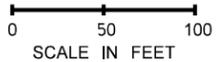
LEGEND			
	QUANTITY TAB NOTE		HOV
	QUANTITY TAB NOTE CONTINUED		ONLY
	EDGE OF SHOULDER		TYPE 1S TRAFFIC ARROW
	EDGE LINE		TYPE 2SL (LEFT) TRAFFIC ARROW
	LANE LINE		TYPE 2SR (RIGHT) TRAFFIC ARROW
	DROP LANE LINE		DRAINAGE MARKING
	DOTTED EXTENSION LINE		CROSS CULVERT MARKER
	WIDE LINE		
	STOP LINE		
	CROSSWALK LINE		

GENERAL NOTES:

- FOR LONGITUDINAL PAVEMENT MARKING, SEE WSDOT STANDARD PLAN M-20.10-02.
- FOR GORE AREA MARKING, SEE WSDOT STANDARD PLAN M-2.20-02.
- FOR RAMP RPM, SEE WSDOT STANDARD PLAN M-20.30-02.



BEGIN CONSTRUCTION
M 106+49.00
MATCH EXISTING



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TIME 11:23:38 AM	REGION NO. 10	STATE WASH			
DATE 6/14/2012	JOB NUMBER				
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DESIGNED BY M. TSUN	REVISION	DATE	BY		
ENTERED BY B. PURGANAN					
CHECKED BY O. KIKUTA					
PROJ. ENGR.					
REGIONAL ADM.					

DATE _____
P.E. STAMP BOX

DATE _____
P.E. STAMP BOX

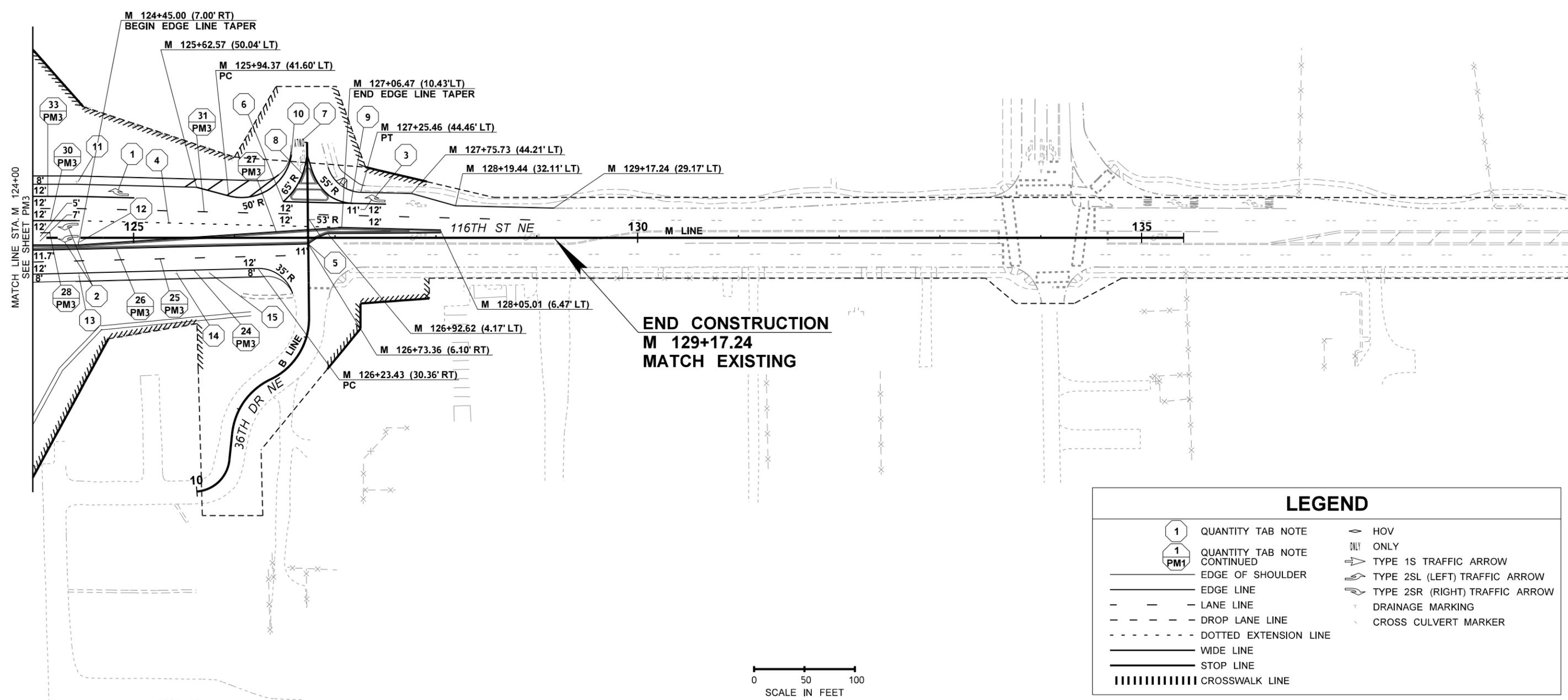


I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

PAVEMENT MARKING PLAN

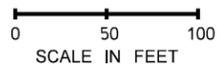
Plot 6
 PLAN REF NO
PM6
 SHEET
 OF
 SHEETS

- GENERAL NOTES:**
- FOR LONGITUDINAL PAVEMENT MARKING, SEE WSDOT STANDARD PLAN M-20.10-02.
 - FOR GORE AREA MARKING, SEE WSDOT STANDARD PLAN M-2.20-02.
 - FOR RAMP RPM, SEE WSDOT STANDARD PLAN M-20.30-02.

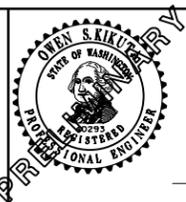


**END CONSTRUCTION
M 129+17.24
MATCH EXISTING**

LEGEND	
	QUANTITY TAB NOTE
	QUANTITY TAB NOTE CONTINUED
	EDGE OF SHOULDER
	EDGE LINE
	LANE LINE
	DROP LANE LINE
	DOTTED EXTENSION LINE
	WIDE LINE
	STOP LINE
	CROSSWALK LINE
	HOV
	ONLY
	TYPE 1S TRAFFIC ARROW
	TYPE 2SL (LEFT) TRAFFIC ARROW
	TYPE 2SR (RIGHT) TRAFFIC ARROW
	DRAINAGE MARKING
	CROSS CULVERT MARKER



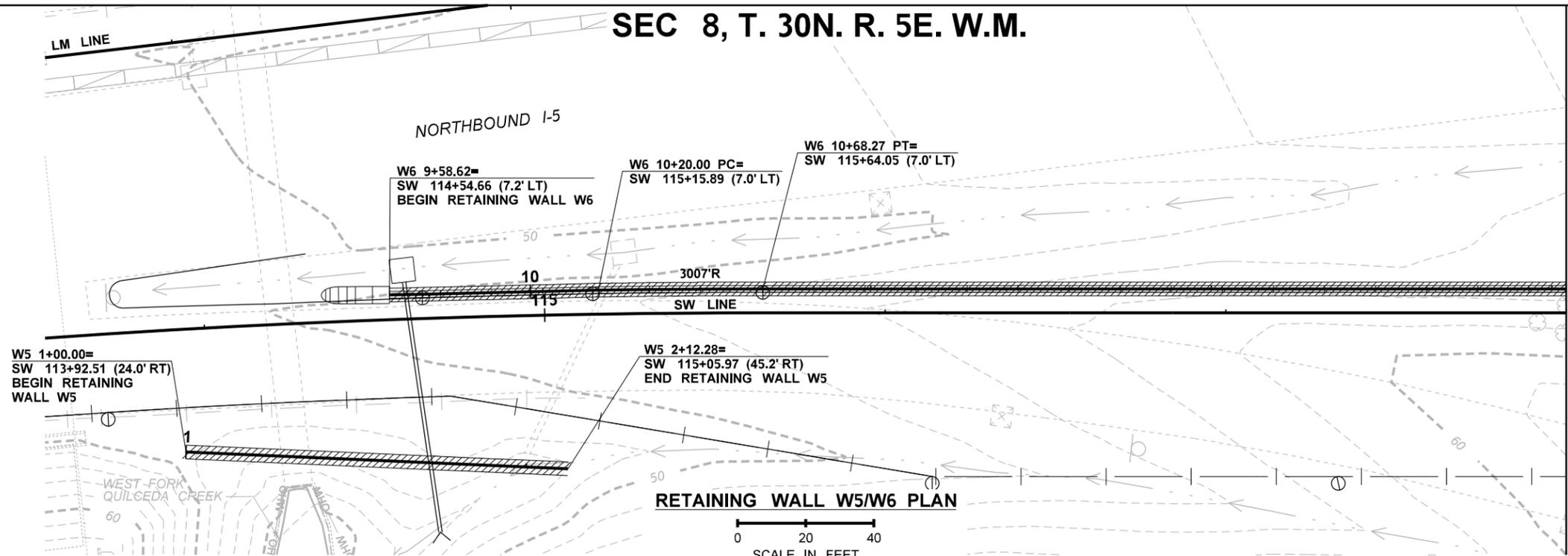
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TIME 11:23:49 AM				10 WASH				PLAN REF NO PM7	
DATE 6/14/2012								SHEET	
PLOTTED BY purgabut								OF	
DESIGNED BY M. TSUN								SHEETS	
ENTERED BY B. PURGANAN									
CHECKED BY O. KIKUTA									
PROJ. ENGR.									
REGIONAL ADM.				REVISION		DATE BY			
DATE		DATE		DATE		DATE			
P.E. STAMP BOX		P.E. STAMP BOX		P.E. STAMP BOX		P.E. STAMP BOX			



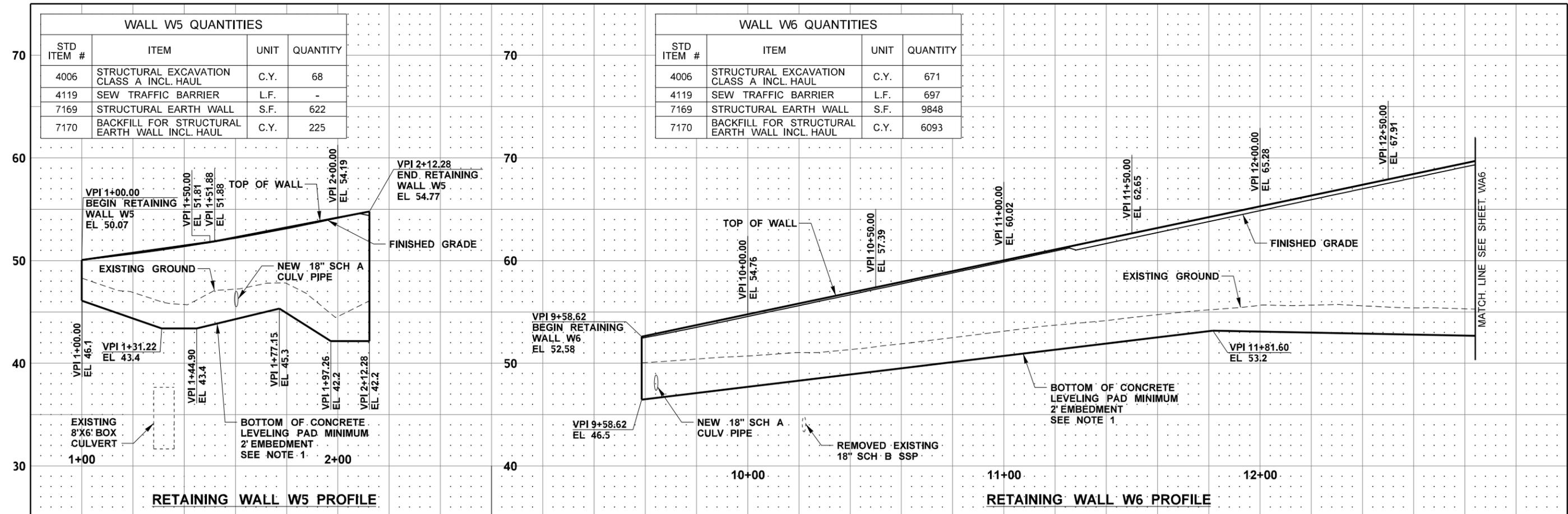
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
PAVEMENT MARKING PLAN

SEC 8, T. 30N. R. 5E. W.M.

- NOTES:
1. THE FINAL CONCRETE LEVELING PAD ELEVATION MAY BE LOWER. FINAL CONCRETE LEVELING PAD ELEVATION DETERMINED BY THE WALL MANUFACTURER.
 2. WALL DETAIL AT CULVERT, SEE SHEET WD1.



MATCH LINE SEE SHEET WA6



FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svcs\CADDIPS&ESheets\BL1598033_PS_WA.dgn			
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DATE 6/14/2012	JOB NUMBER	CONTRACT NO.	LOCATION NO.
PLOTTED BY purgabut	REVISION	DATE	BY
DESIGNED BY M. TSUN / J. JUN			
ENTERED BY B. PURGANAN			
CHECKED BY O. KIKUTA			
PROJ. ENGR.			
REGIONAL ADM.			

OWEN S. KIKUTA
REGISTERED PROFESSIONAL ENGINEER

DATE _____

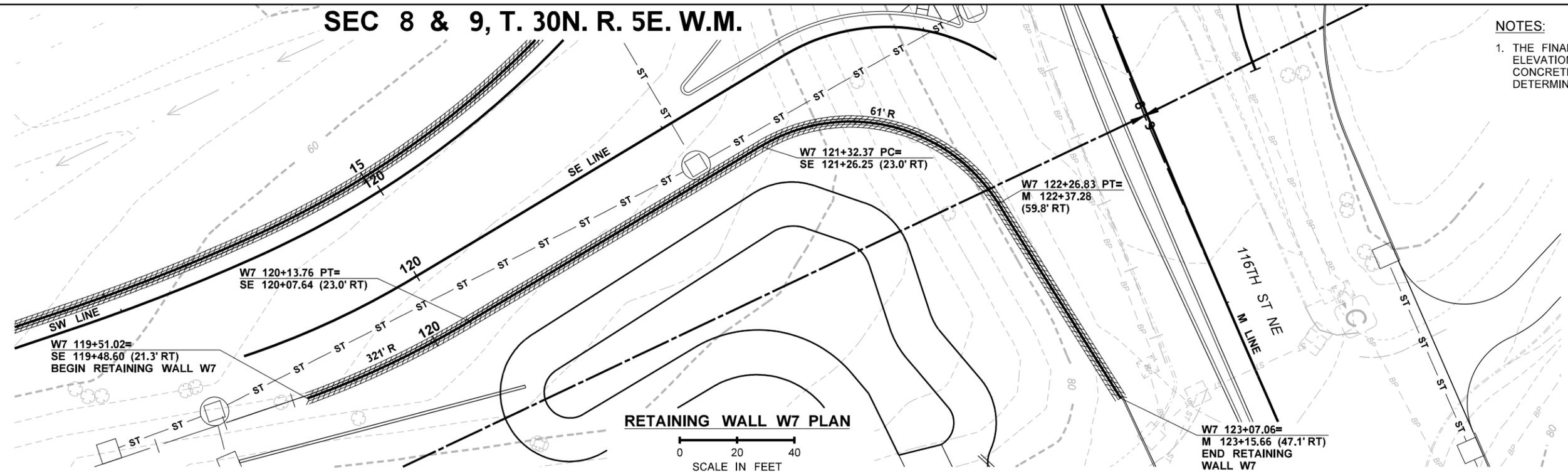
P.E. STAMP BOX



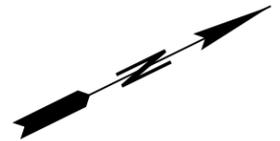
I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 5 PLAN REF. NO. WA5
RETAINING WALL PLAN AND PROFILE	SHEET OF SHEETS

SEC 8 & 9, T. 30N. R. 5E. W.M.

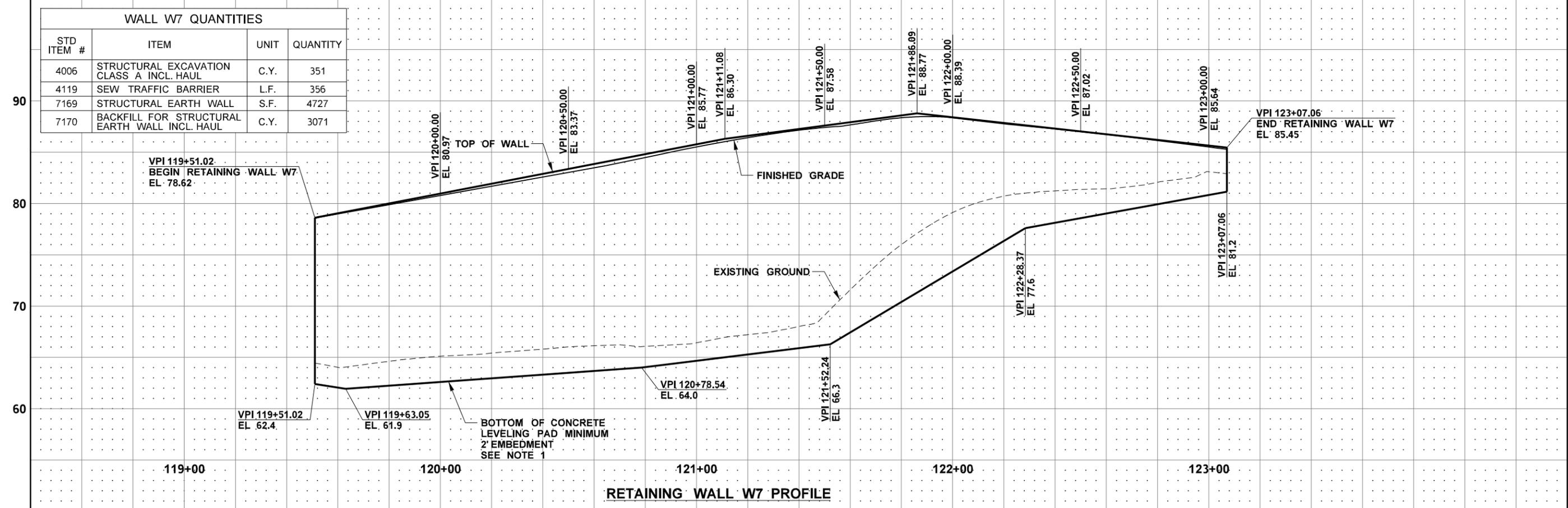
NOTES:
 1. THE FINAL CONCRETE LEVELING PAD ELEVATION MAY BE LOWER. FINAL CONCRETE LEVELING PAD ELEVATION DETERMINED BY THE WALL MANUFACTURER.



RETAINING WALL W7 PLAN
 SCALE IN FEET
 0 20 40



WALL W7 QUANTITIES			
STD ITEM #	ITEM	UNIT	QUANTITY
4006	STRUCTURAL EXCAVATION CLASS A INCL. HAUL	C.Y.	351
4119	SEW TRAFFIC BARRIER	L.F.	356
7169	STRUCTURAL EARTH WALL	S.F.	4727
7170	BACKFILL FOR STRUCTURAL EARTH WALL INCL. HAUL	C.Y.	3071



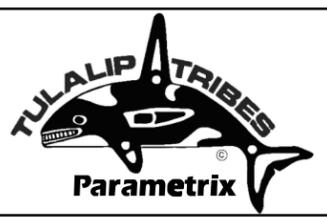
RETAINING WALL W7 PROFILE

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TIME	11:26:33 AM		
DATE	6/14/2012		
PLOTTED BY	purgabut		
DESIGNED BY	M. TSUN / J. JUN		
ENTERED BY	B. PURGANAN		
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

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

P.E. STAMP BOX

DATE



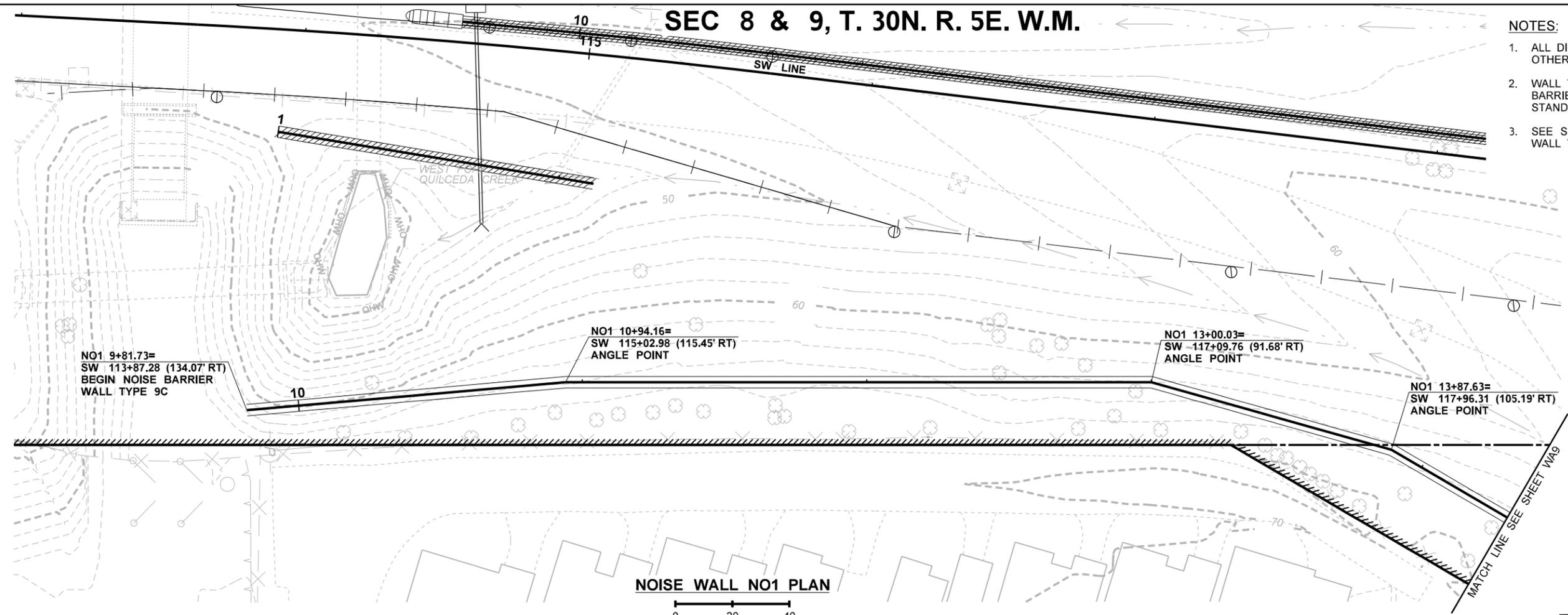
I-5
 116TH ST NE
 INTERCHANGE IMPROVEMENTS

RETAINING WALL PLAN AND PROFILE

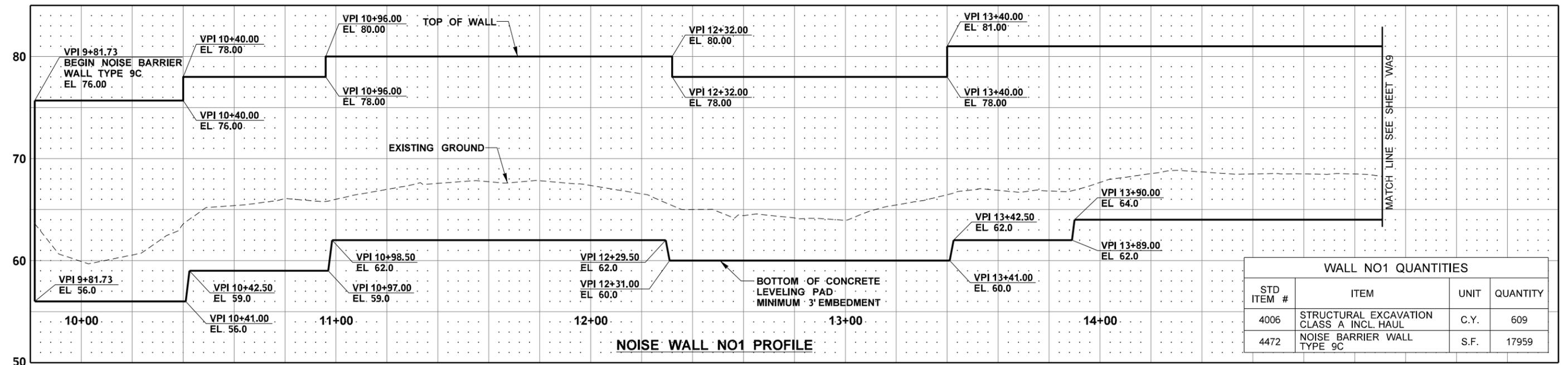
Plot 7
 PLAN REF. NO.
WA7
 SHEET
 OF
 SHEETS

SEC 8 & 9, T. 30N. R. 5E. W.M.

- NOTES:**
1. ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
 2. WALL TO BE DESIGNATED NOISE BARRIER WALL TYPE 9C. SEE STANDARD PLAN D-2.32-00.
 3. SEE SPECIAL PROVISIONS FOR NOISE WALL TEXTURE.



NOISE WALL NO1 PLAN
SCALE IN FEET
0 20 40

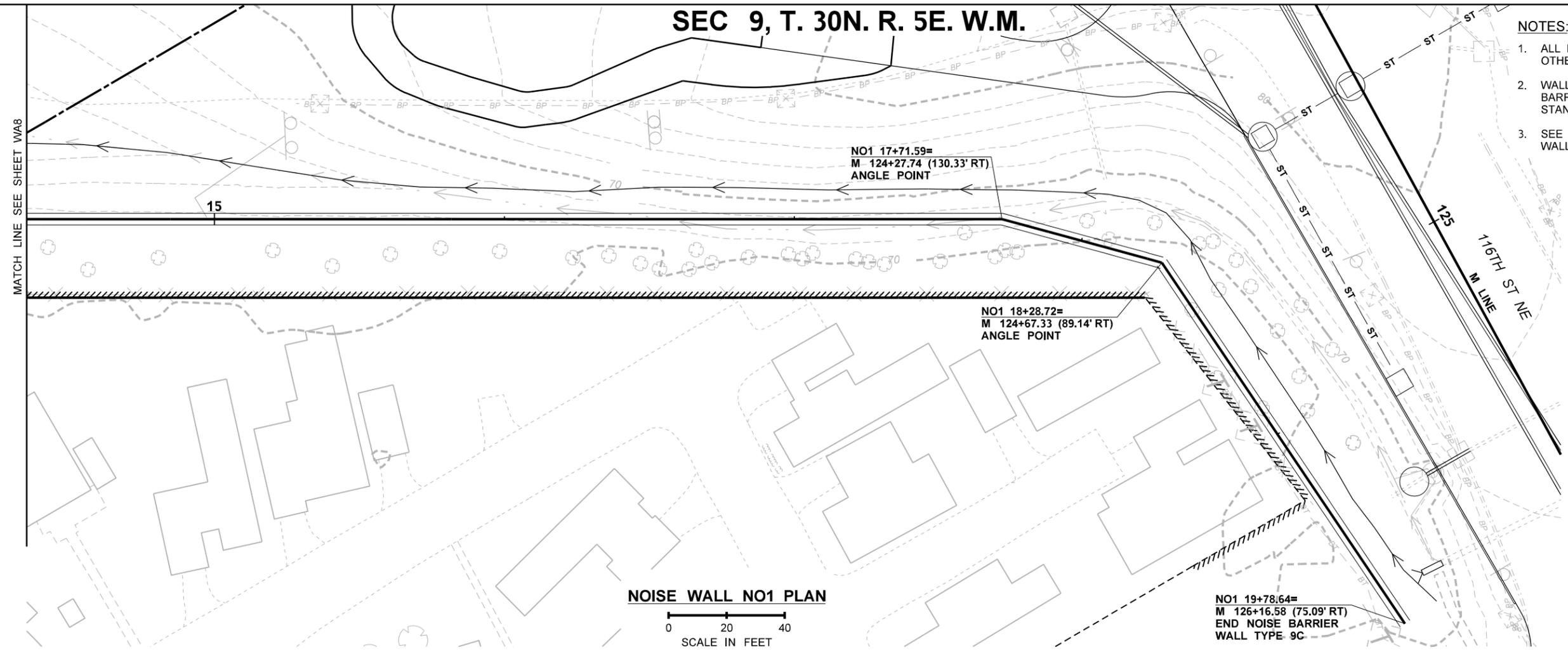


WALL NO1 QUANTITIES			
STD ITEM #	ITEM	UNIT	QUANTITY
4006	STRUCTURAL EXCAVATION CLASS A INCL HAUL	C.Y.	609
4472	NOISE BARRIER WALL TYPE 9C	S.F.	17959

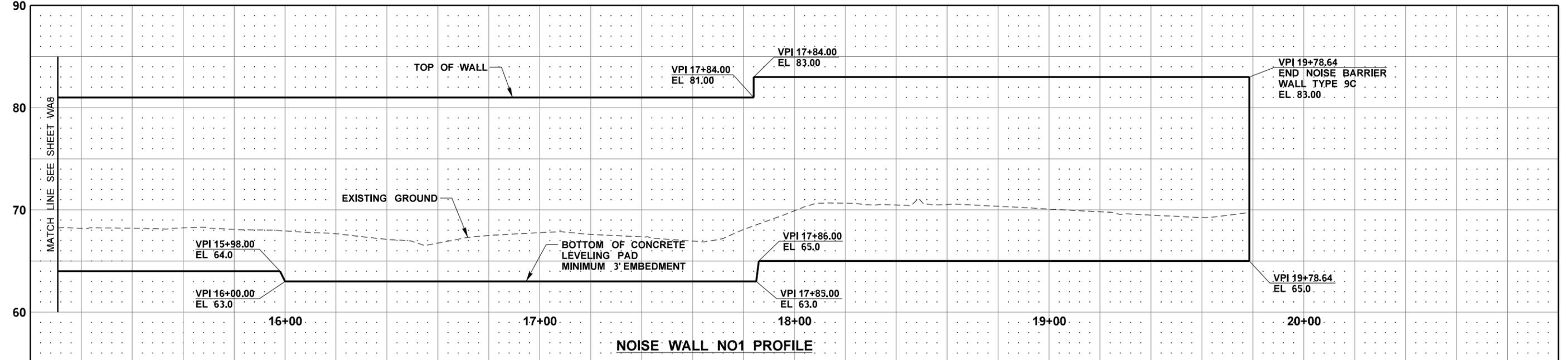
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TIME: 11:26:59 AM	DATE: 6/14/2012	10	WASH						PLAN REF. NO. WA8
PLOTTED BY: purgabut	DESIGNED BY: M. TSUN / J. JUN	JOB NUMBER		LOCATION NO.				SHEET	
ENTERED BY: B. PURGANAN	CHECKED BY: O. KIKUTA	CONTRACT NO.						OF	
PROJ. ENGR.	REVISION	DATE	BY	DATE				SHEETS	

SEC 9, T. 30N. R. 5E. W.M.

- NOTES:**
1. ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
 2. WALL TO BE DESIGNATED NOISE BARRIER WALL TYPE 9C. SEE STANDARD PLAN D-2.32-00.
 3. SEE SPECIAL PROVISIONS FOR NOISE WALL TEXTURE.



NOISE WALL NO1 PLAN
SCALE IN FEET



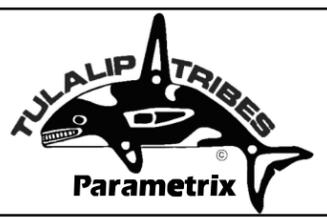
NOISE WALL NO1 PROFILE

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PLOTTED BY	purgabut		
DESIGNED BY	M. TSUN / J. JUN		
ENTERED BY	B. PURGANAN		
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.			
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



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

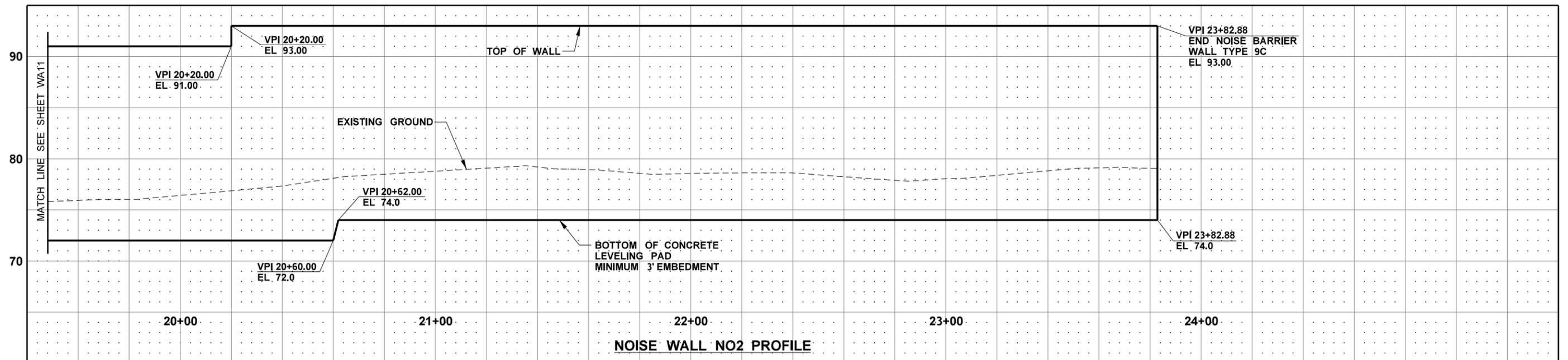
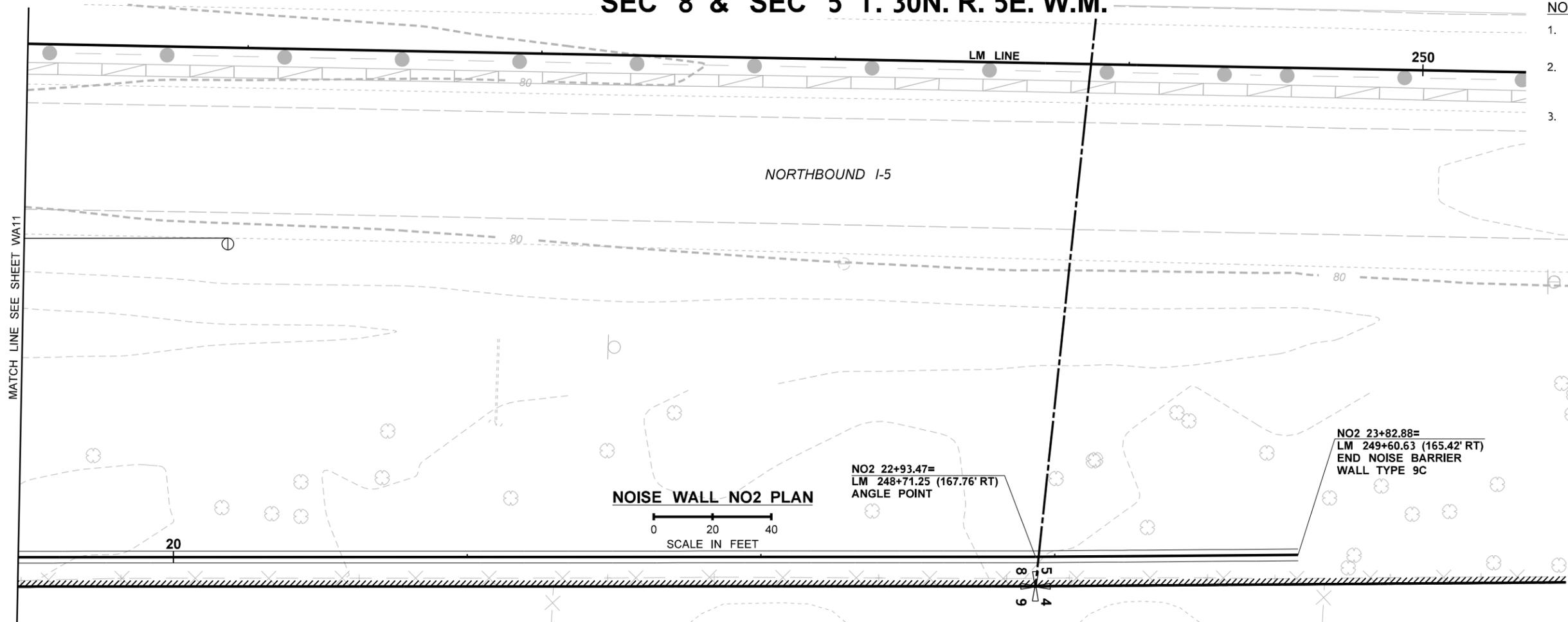
NOISE WALL PLAN AND PROFILE

Plot 9
PLAN REF. NO.
WA9
SHEET
OF
SHEETS

SEC 8 & SEC 5 T. 30N. R. 5E. W.M.

NOTES:

1. ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.
2. WALL TO BE DESIGNATED NOISE BARRIER WALL TYPE 9C. SEE STANDARD PLAN D-2.32-00.
3. SEE SPECIAL PROVISIONS FOR NOISE WALL TEXTURE.



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PLOTTED BY	purgabut			
DESIGNED BY	M. TSUN / J. JUN			
ENTERED BY	B. PURGANAN			
CHECKED BY	O. KIKUTA			
PROJ. ENGR.				
REGIONAL ADM.	REVISION	DATE	BY	

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

P.E. STAMP BOX

DATE



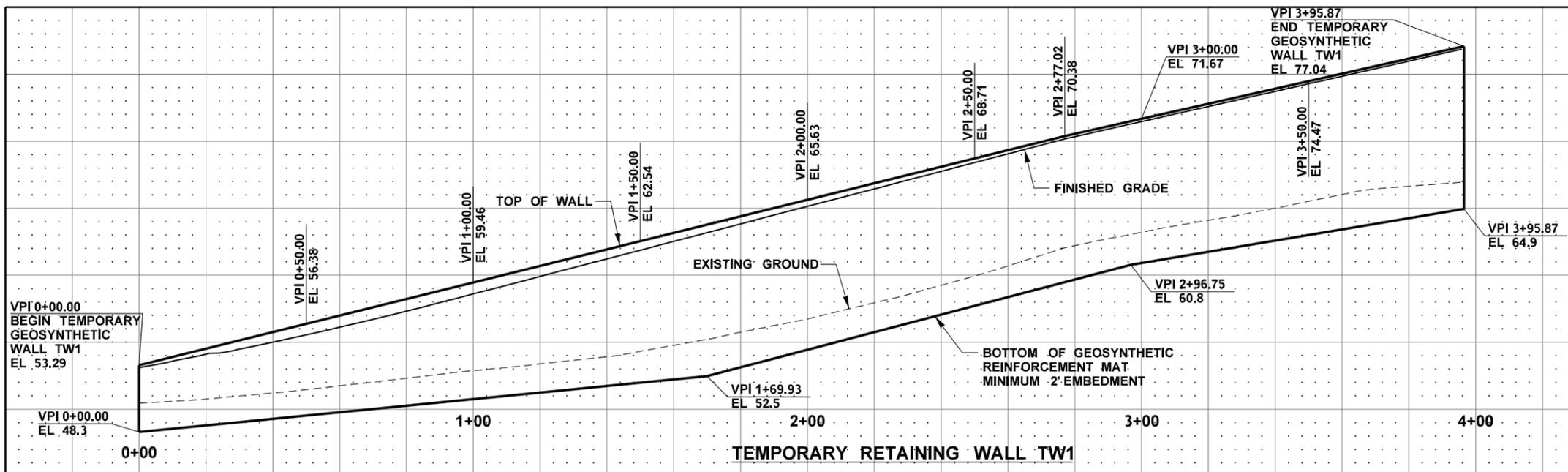
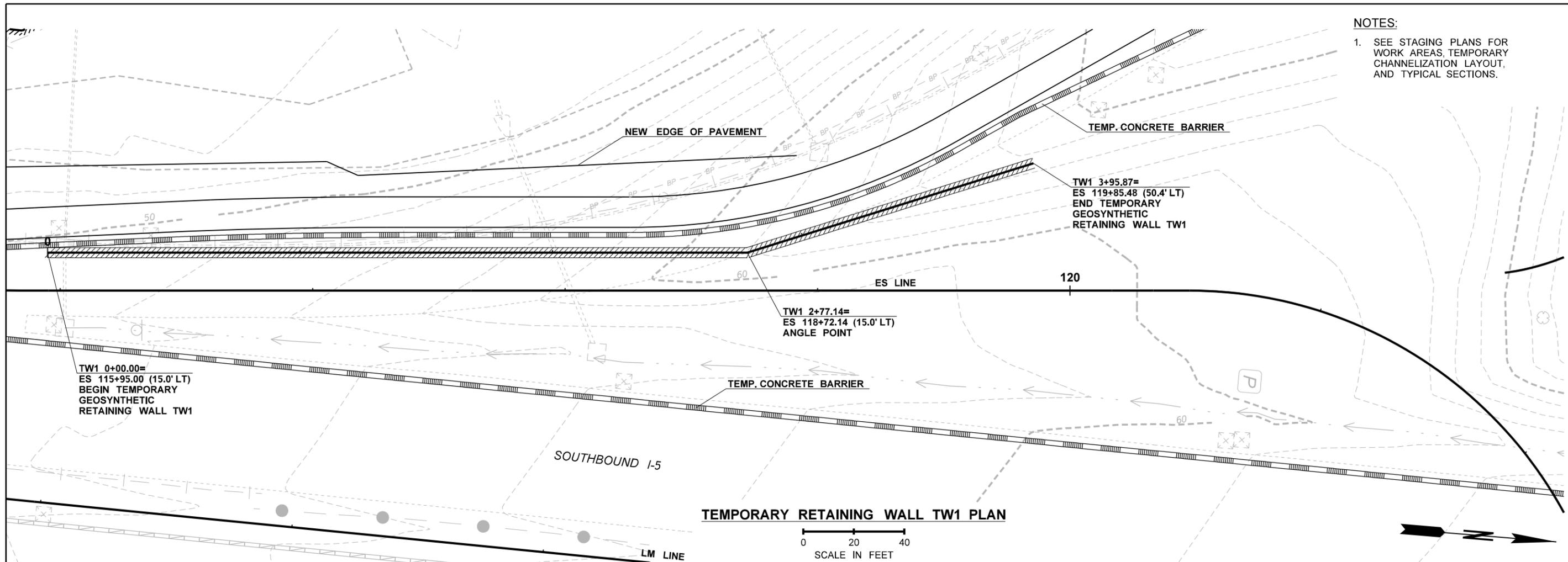
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

NOISE WALL PLAN AND PROFILE

Plot 12
PLAN REF. NO.
WA12
SHEET
OF
SHEETS

NOTES:

- SEE STAGING PLANS FOR WORK AREAS, TEMPORARY CHANNELIZATION LAYOUT, AND TYPICAL SECTIONS.



WALL TW1 QUANTITIES			
STD ITEM #	ITEM	UNIT	QUANTITY
2565	TEMPORARY GEOSYNTHETIC RETAINING WALL	S.F.	3907

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DESIGNED BY	M. TSUN		
ENTERED BY	B. PURGANAN		
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.	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



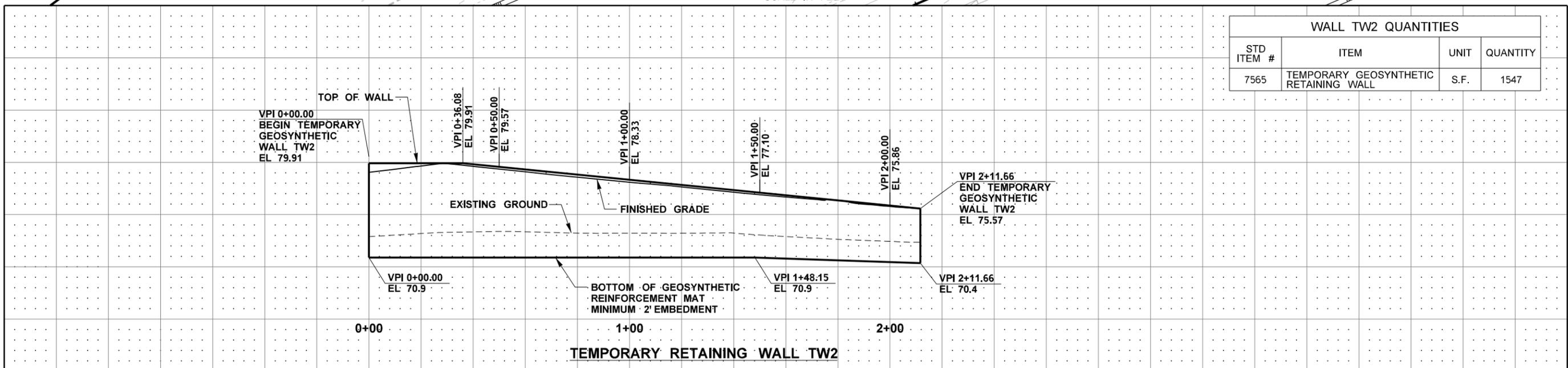
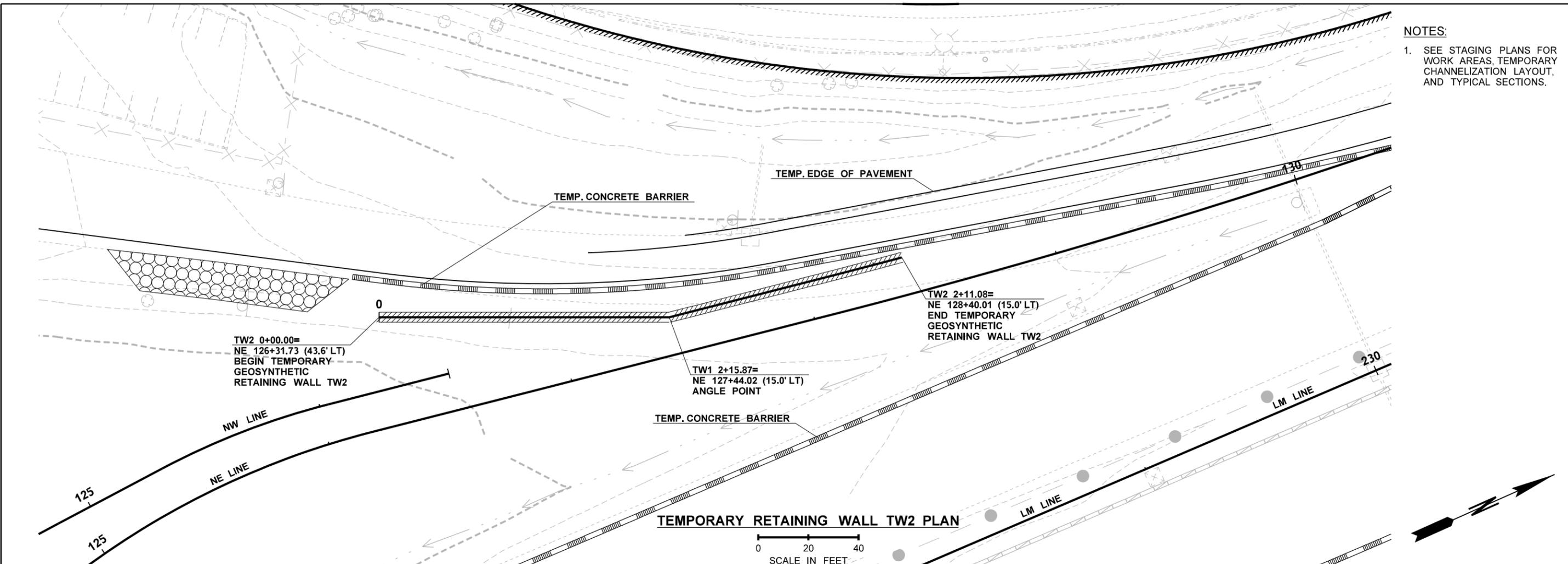
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

TEMPORARY RETAINING WALL PLAN AND PROFILE

Plot 13
PLAN REF. NO.
WA13

SHEET
OF
SHEETS

NOTES:
 1. SEE STAGING PLANS FOR WORK AREAS, TEMPORARY CHANNELIZATION LAYOUT, AND TYPICAL SECTIONS.



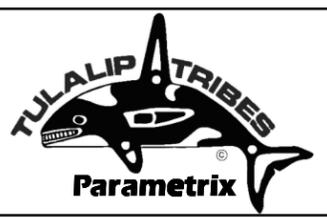
WALL TW2 QUANTITIES			
STD ITEM #	ITEM	UNIT	QUANTITY
7565	TEMPORARY GEOSYNTHETIC RETAINING WALL	S.F.	1547

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DATE	6/14/2012		
PLOTTED BY	purgabut		
DESIGNED BY	M. TSUN		
ENTERED BY	B. PURGANAN		
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.			
REVISION	DATE	BY	

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

Professional Engineer Seal: OREN S. KIKUTA, REGISTERED PROFESSIONAL ENGINEER, STATE OF WASHINGTON, No. 2933

P.E. STAMP BOX DATE



I-5
 116TH ST NE
 INTERCHANGE IMPROVEMENTS

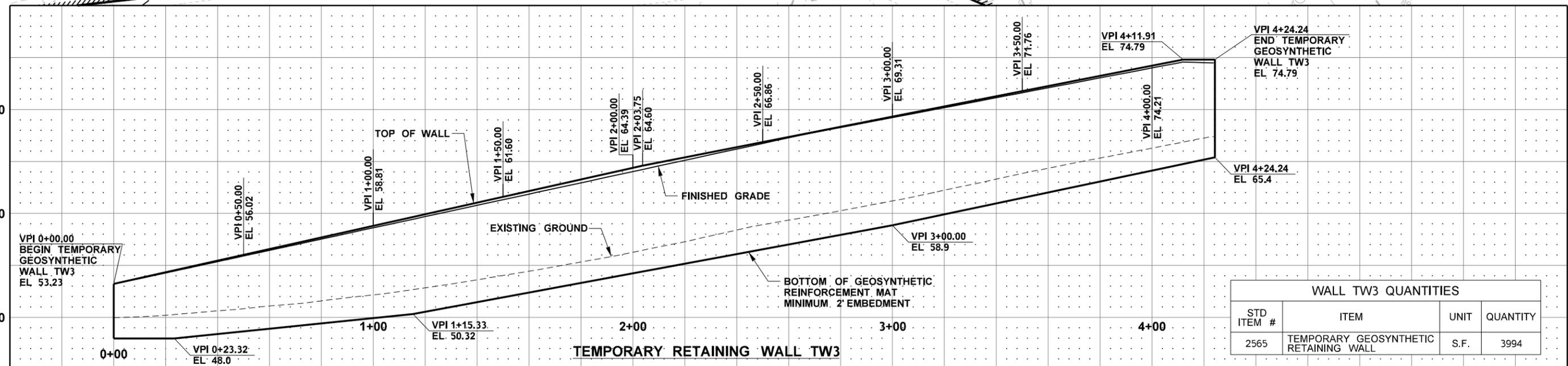
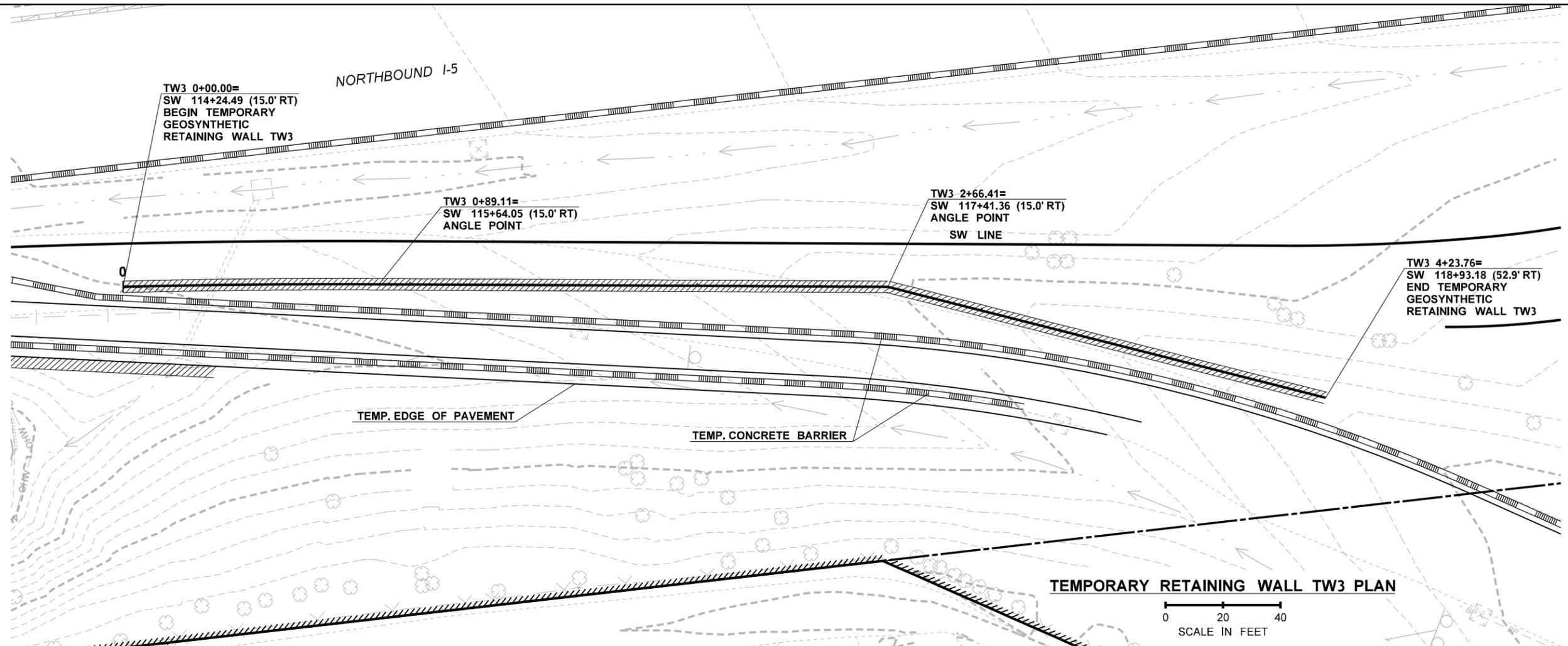
Plot 14
 PLAN REF. NO.
WA14

TEMPORARY RETAINING WALL PLAN AND PROFILE

SHEET OF SHEETS

NOTES:

- SEE STAGING PLANS FOR WORK AREAS, TEMPORARY CHANNELIZATION LAYOUT, AND TYPICAL SECTIONS.



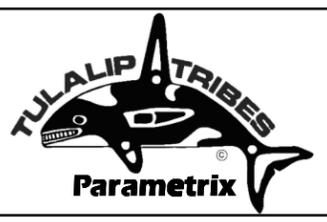
WALL TW3 QUANTITIES			
STD ITEM #	ITEM	UNIT	QUANTITY
2565	TEMPORARY GEOSYNTHETIC RETAINING WALL	S.F.	3994

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DATE	6/14/2012		
PLOTTED BY	purgabut		
DESIGNED BY	M. TSUN		
ENTERED BY	B. PURGANAN		
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.	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

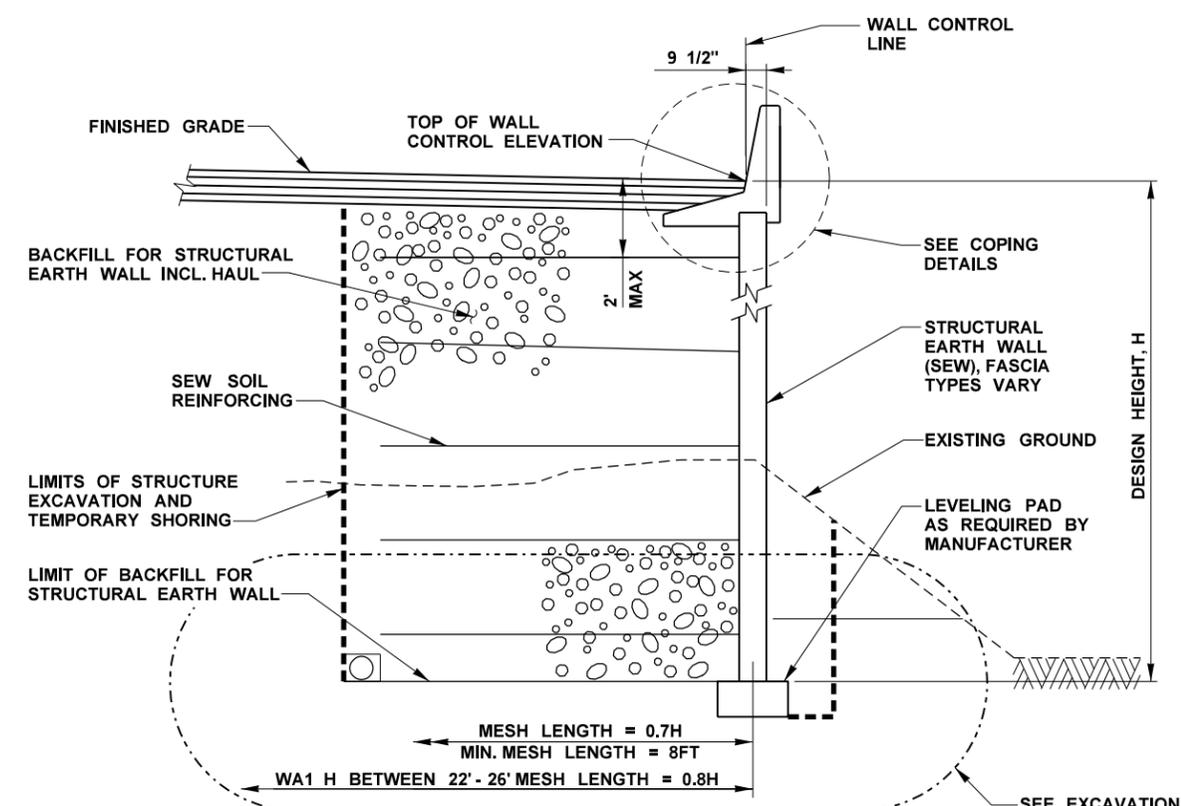


Plot 15
PLAN REF. NO.
WA15

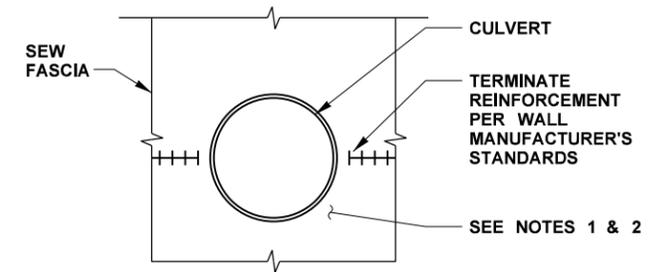
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

TEMPORARY RETAINING WALL PLAN AND PROFILE

SHEET
OF
SHEETS



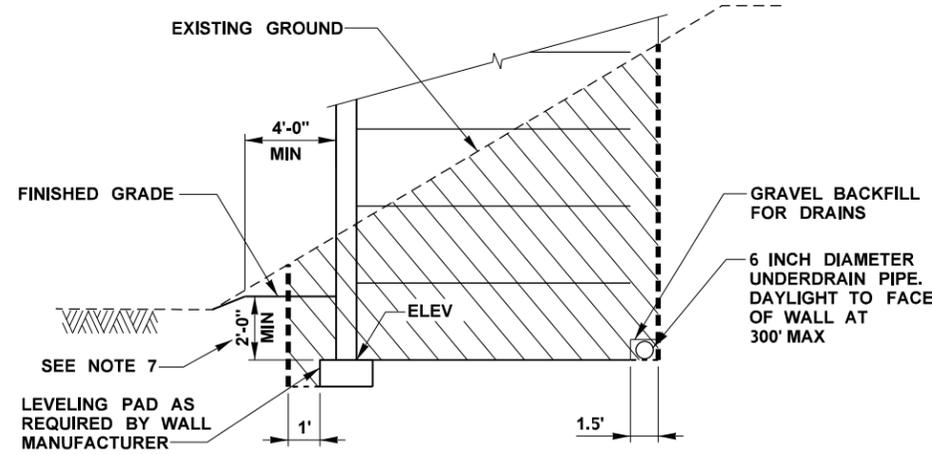
STRUCTURAL EARTH WALL TYPICAL SECTION
NOT TO SCALE



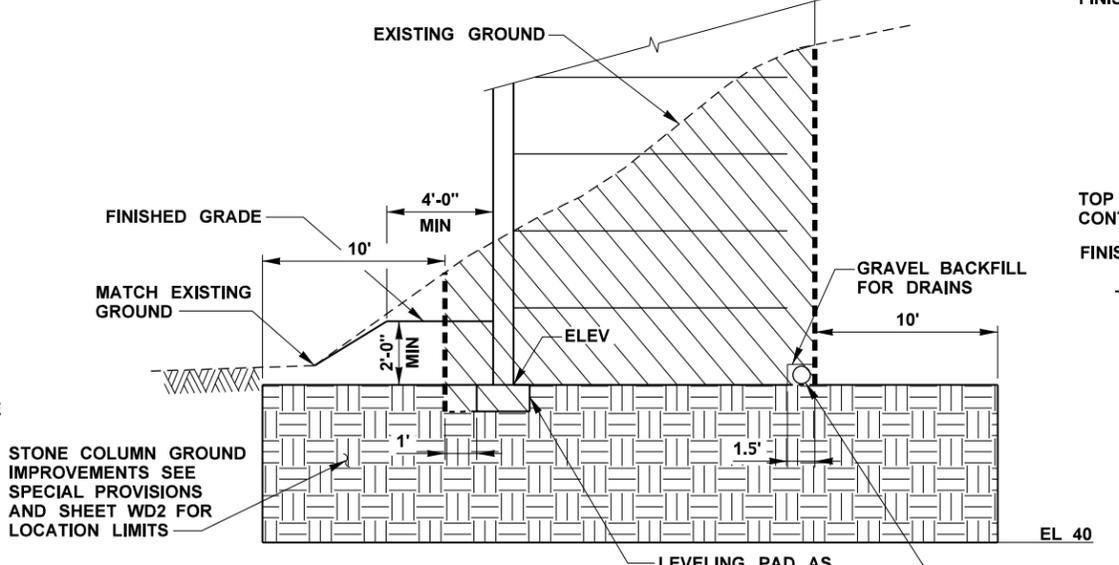
WALL DETAIL AT CULVERT
NOT TO SCALE

- LEGEND:**
- CLASS A INCL. HAUL STRUCTURE EXCAVATION
 - UNSUITABLE FOUNDATION EXCAVATION INCL. HAUL
 - GROUND IMPROVEMENTS
 - STRUCTURE EXCAVATION AND TEMPORARY SHORING LIMITS

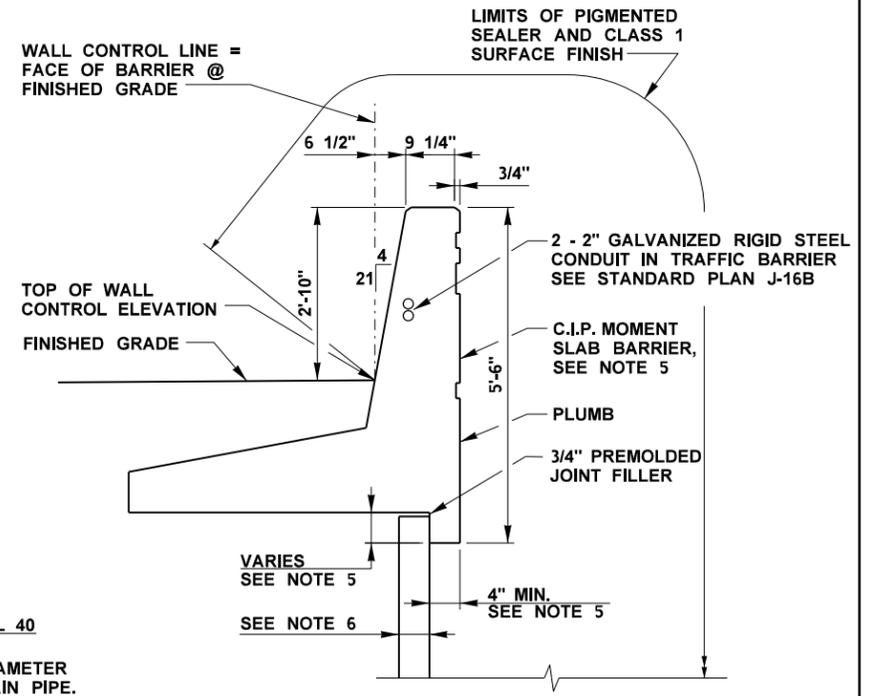
- NOTES:**
- CUT WELDED WIRE FASCIA OR BLOCK FASCIA TO FIT CULVERT PER WALL MANUFACTURER STANDARDS. PRECAST FASCIA PANELS SHALL BE FABRICATED TO FIT CULVERT, CUT REINFORCEMENT TO FIT CULVERT PER WALL MANUFACTURER'S STANDARDS. CIRCULAR PIPE CULVERT SHOWN, BOX CULVERTS SIMILAR.
 - EXISTING CULVERT SHALL BE TEMPORARILY SUPPORTED AND LEFT IN PLACE DURING WALL EXCAVATION / CONSTRUCTION.
 - FOOTING ELEVATIONS AND SUBSTRUCTURE DETAILS ARE SUBJECT TO CHANGE DEPENDING UPON FOUNDATION MATERIAL ENCOUNTERED. PREPARED SUBGRADE MUST BE INSPECTED AND APPROVED BY PROJECT GEOTECHNICAL ENGINEER. REINFORCING STEEL FOR FOOTINGS SHALL NOT BE CUT UNTIL FINAL ELEVATIONS HAVE BEEN DETERMINED AND FOOTING DETAILS HAVE BEEN MODIFIED, IF NECESSARY.
 - ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD BY CONTRACTOR.
 - SEW TRAFFIC BARRIER TO BE DESIGNED AND DETAILED BY WALL MANUFACTURER.
 - WALL SHALL HAVE PRECAST PANEL OR MODULAR DRY CAST CONCRETE BLOCK FACING. THICKNESS SHALL BE DETERMINED BY MANUFACTURER.
 - WALL EMBEDMENT DEPTH CAN BE H/10 WITH 3H:1V FRONT SLOPE. H IS THE TOTAL HEIGHT OF WALL.
 - SEE SPECIAL PROVISIONS FOR WALL DESIGN PROVISIONS AND PARAMETERS.



FOUNDATION TYPE 1
WALLS W2 TO W7
NOT TO SCALE



FOUNDATION TYPE 2
WALL W1 10+07 TO 12+50
NOT TO SCALE

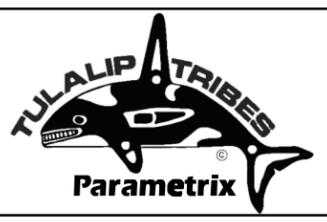


COPING TYPE 1
WALL W1 TO W4
WALL W6 TO W7
NOT TO SCALE

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TIME	2:59:06 PM		
DATE	10/24/2012		
PLOTTED BY	purgabut		
DESIGNED BY	M. TSUN		
ENTERED BY	B. PURGANAN		
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

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

Professional Engineer Seal for Owen S. Kikuta, State of Washington, License No. 30293. Includes fields for P.E. STAMP BOX and DATE.



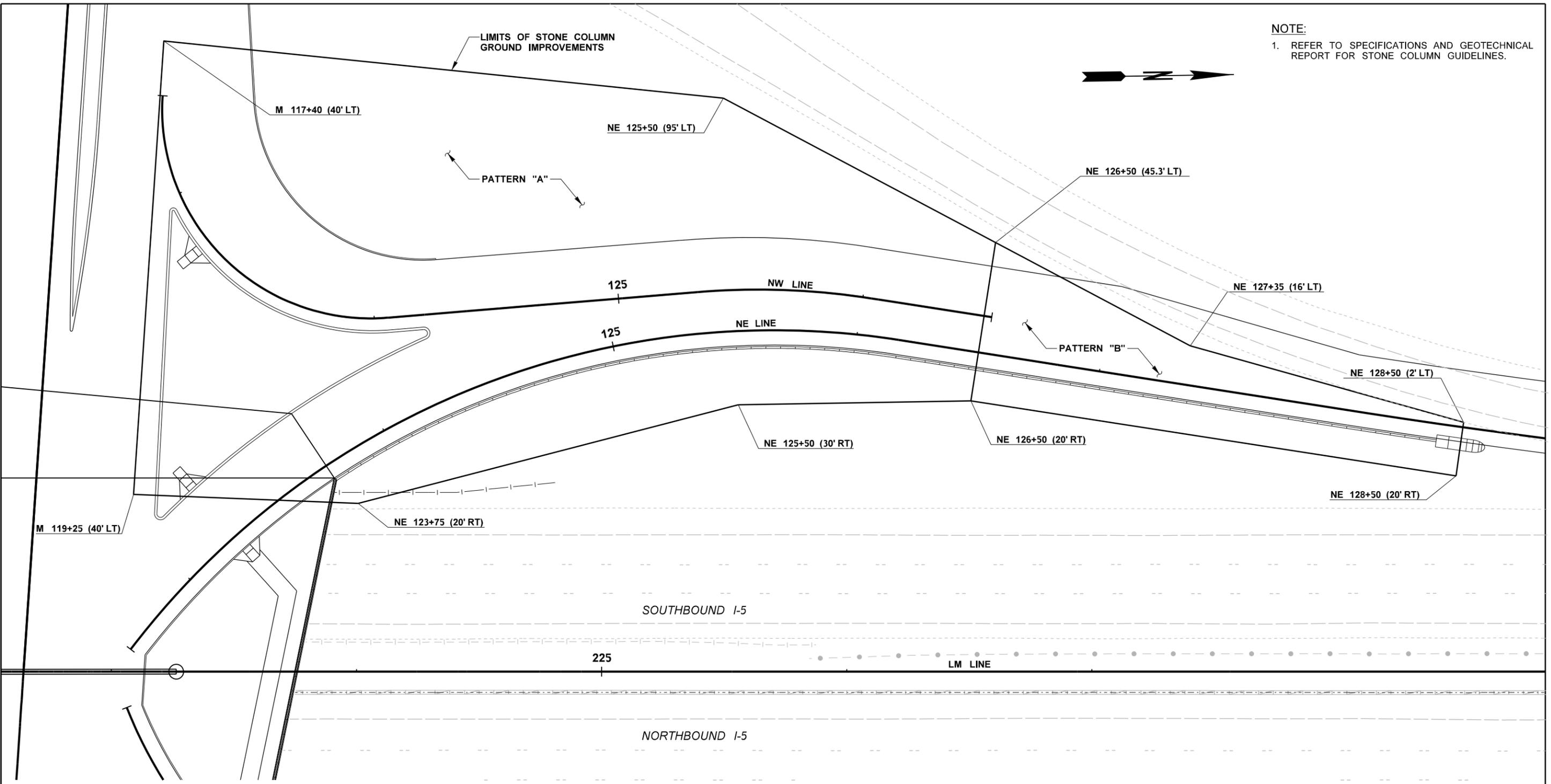
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

Plot 1
PLAN REF NO
WD1

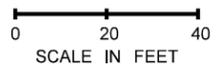
WALL DETAILS

SHEET OF SHEETS

NOTE:
 1. REFER TO SPECIFICATIONS AND GEOTECHNICAL REPORT FOR STONE COLUMN GUIDELINES.



STONE COLUMN GROUND IMPROVEMENTS

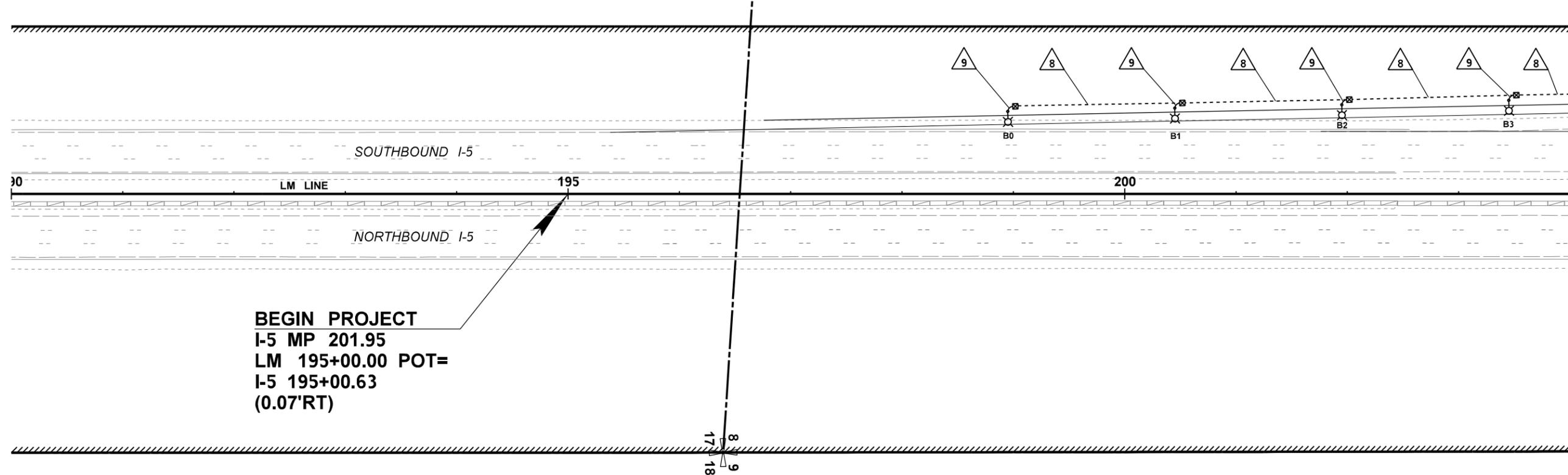
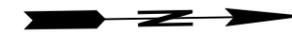


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TIME 2:59:37 PM		10	WASH			PLAN REF NO. WD2	
DATE 10/24/2012		JOB NUMBER				SHEET	
PLOTTED BY purgabut		CONTRACT NO.		LOCATION NO.		OF	
DESIGNED BY M. TSUN						SHEETS	
ENTERED BY B. PURGANAN							
CHECKED BY O. KIKUTA							
PROJ. ENGR.							
REGIONAL ADM.	REVISION	DATE	BY	P.E. STAMP BOX	DATE	P.E. STAMP BOX	DATE



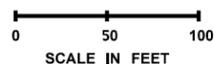
I-5
 116TH ST NE
 INTERCHANGE IMPROVEMENTS
 WALL DETAILS

SEC 8 & SEC 17, T. 30N. R. 5E. W.M.



BEGIN PROJECT
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LM 195+00.00 POT=
I-5 195+00.63
(0.07'RT)

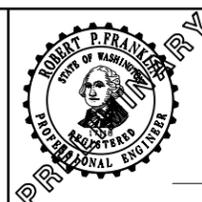
ILLUMINATION LEGEND	
	PEDESTRIAN SIGNAL HEAD
	STREET LIGHT - 50' MH, 271 WATT 480V LED
	STREET LIGHT-DECORATIVE (EXISTING TO BE RELOCATED)
	CONDUIT
	CONDUIT/WIRE NOTE
	CONSTRUCTION NOTE
	TYPE 1 OR TYPE 4 JUNCTION BOX, SEE CONSTRUCTION NOTES
	TYPE 2 JUNCTION BOX
	TYPE 8 JUNCTION BOX
	CAST IRON JUNCTION BOX (ON STRUCTURE)
	NEMA S.S. JUNCTION BOX (IN SEW TRAFFIC BARRIER)
	SERVICE CABINET



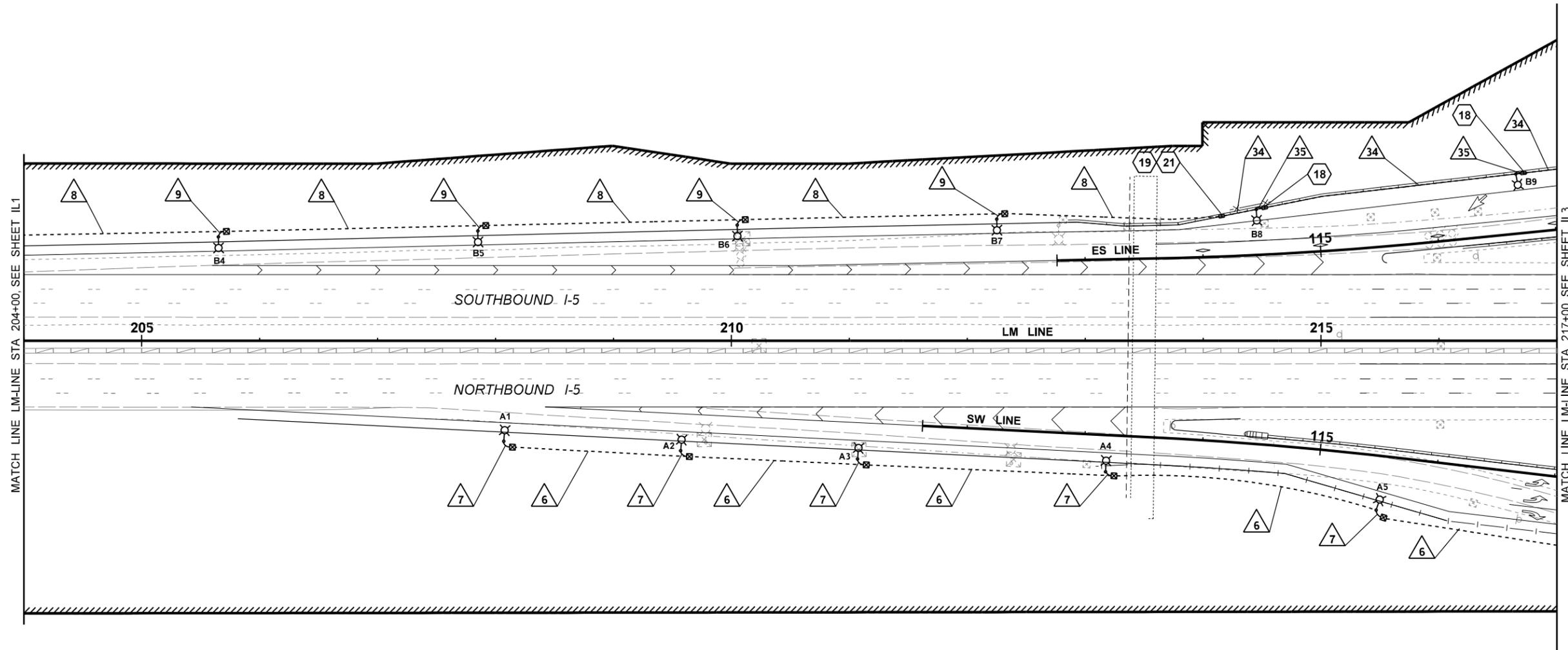
GENERAL NOTE:

- FOR CONSTRUCTION NOTES, AND SCHEDULES, SEE SHEETS IL7, AND IL8.

FILE NAME U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svcs\CADD\PS&ESheets\BL1598033_PS_IL.dgn		REGION NO. STATE		FED.AID PROJ.NO.		DATE		PLOT 1	
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DATE	6/14/2012	JOB NUMBER						IL1	
PLOTTED BY	purgabut	CONTRACT NO.		LOCATION NO.				SHEET	
DESIGNED BY	R. FRANKLIN							OF	
ENTERED BY	C.D. CLARK							SHEETS	
CHECKED BY	E. SCHOTT								
PROJ. ENGR.	S. SHAKLAWUN								
REGIONAL ADM.	L. ENG	REVISION	DATE	BY		P.E. STAMP BOX		ILLUMINATION PLAN	

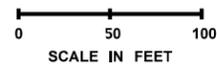


SEC 8, T. 30N. R. 5E. W.M.



ILLUMINATION LEGEND

	PEDESTRIAN SIGNAL HEAD		TYPE 1 OR TYPE 4 JUNCTION BOX, SEE CONSTRUCTION NOTES
	STREET LIGHT - 50' MH, 271 WATT 480V LED		TYPE 2 JUNCTION BOX
	STREET LIGHT-DECORATIVE (EXISTING TO BE RELOCATED)		TYPE 8 JUNCTION BOX
	CONDUIT		CAST IRON JUNCTION BOX (ON STRUCTURE)
	CONDUIT/WIRE NOTE		NEMA S.S. JUNCTION BOX (IN SEW TRAFFIC BARRIER)
	CONSTRUCTION NOTE		SERVICE CABINET

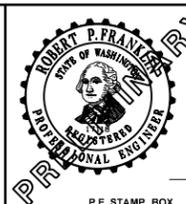


GENERAL NOTE:

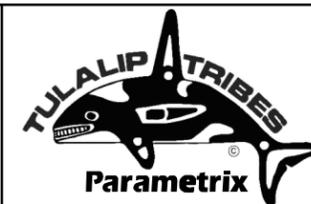
- FOR CONSTRUCTION NOTES, AND SCHEDULES, SEE SHEETS IL7, AND IL8.

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DATE 6/14/2012	JOB NUMBER		
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DESIGNED BY R. FRANKLIN	REVISION	DATE	BY
ENTERED BY C.D. CLARK			
CHECKED BY E. SCHOTT			
PROJ. ENGR. S. SHAKLAWUN			
REGIONAL ADM. L. ENG			

P.E. STAMP BOX



DATE

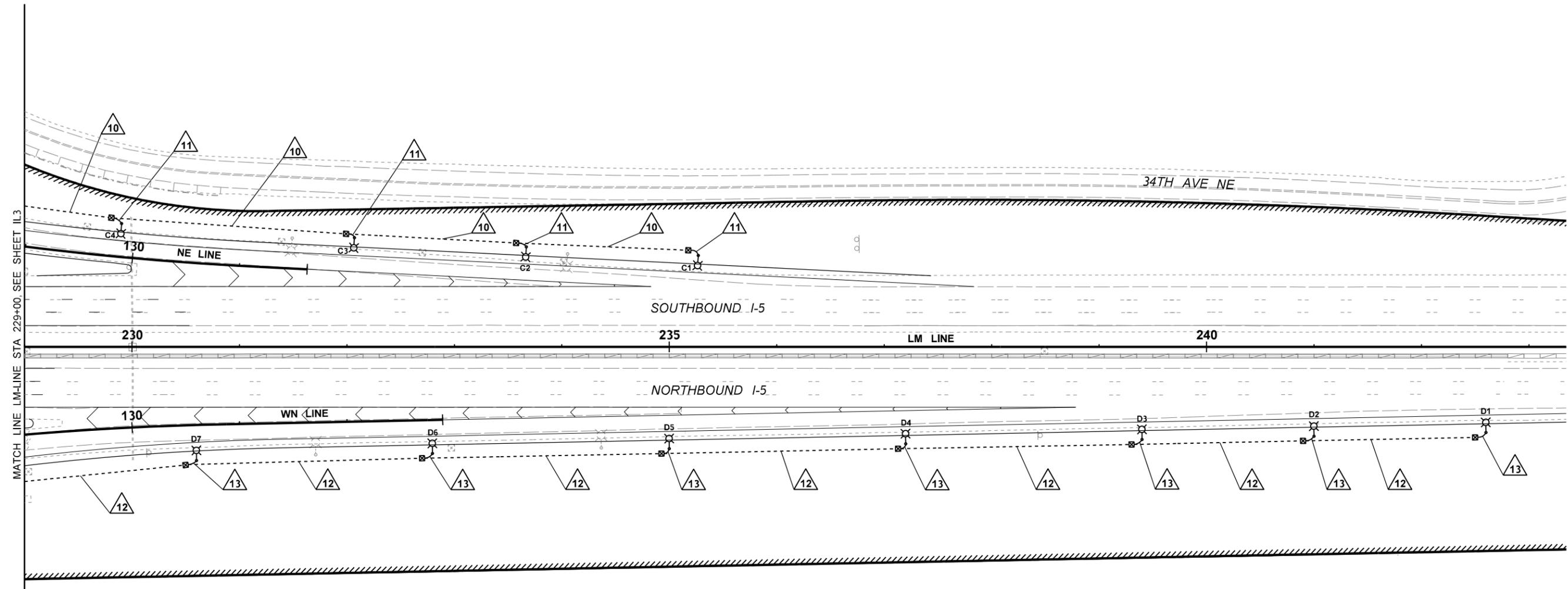


**I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS**

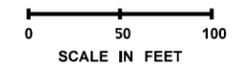
ILLUMINATION PLAN

Plot 2
PLAN REF NO IL2
SHEET OF SHEETS

SEC 8, T. 30N. R. 5E. W.M.

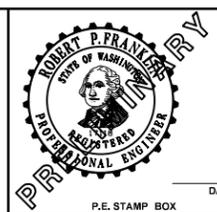


ILLUMINATION LEGEND	
	PEDESTRIAN SIGNAL HEAD
	STREET LIGHT - 50' MH, 271 WATT 480V LED
	STREET LIGHT-DECORATIVE (EXISTING TO BE RELOCATED)
	CONDUIT
	CONDUIT/WIRE NOTE
	CONSTRUCTION NOTE
	TYPE 1 OR TYPE 4 JUNCTION BOX, SEE CONSTRUCTION NOTES
	TYPE 2 JUNCTION BOX
	TYPE 8 JUNCTION BOX
	CAST IRON JUNCTION BOX (ON STRUCTURE)
	NEMA S.S. JUNCTION BOX (IN SEW TRAFFIC BARRIER)
	SERVICE CABINET



GENERAL NOTE:
 1. FOR CONSTRUCTION NOTES, AND SCHEDULES, SEE SHEETS IL7, AND IL8.

FILE NAME U:\BellProjects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3\99Svc\CADD\PS&ESheets\BL1598033_PS_IL.dgn		REGION NO. STATE		FED.AID PROJ.NO.		DATE		Plot 4	
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ENTERED BY C.D. CLARK						DATE			
CHECKED BY E. SCHOTT						DATE			
PROJ. ENGR. S. SHAKLAWUN						DATE			
REGIONAL ADM. L. ENG	REVISION	DATE	BY			DATE			

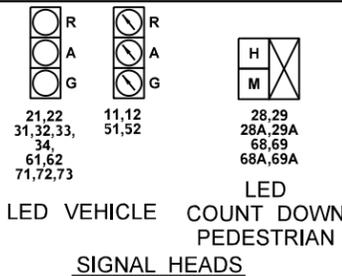


I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
ILLUMINATION PLAN

SEC 8 & SEC 9, T. 30N. R. 5E. W.M.

MATCH LINE LM-LINE STA 224+20, SEE SHEET SG4

EMERGENCY VEHICLE PRE-EMPTION		
DETECTOR NUMBER	RIGHT OF WAY	
	PHASE	HEAD NO.
A	2,5	21,22,51,52
B,B1	7	71,72,73
C	1,6	11,12,61,62
D, D1	3	31,32,33,34



S-2
SIGN BRIDGE MOUNTED SIGNS

S-1
LED VEHICLE COUNT DOWN PEDESTRIAN SIGNAL HEADS

GENERAL NOTE:

- FOR CONSTRUCTION NOTES, SIGNAL STANDARD NOTES, AND SCHEDULES, SEE SHEETS SG5, AND SG6.

PUSHBUTTON NOTE:

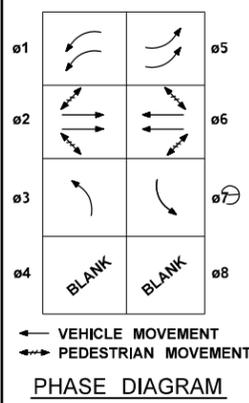
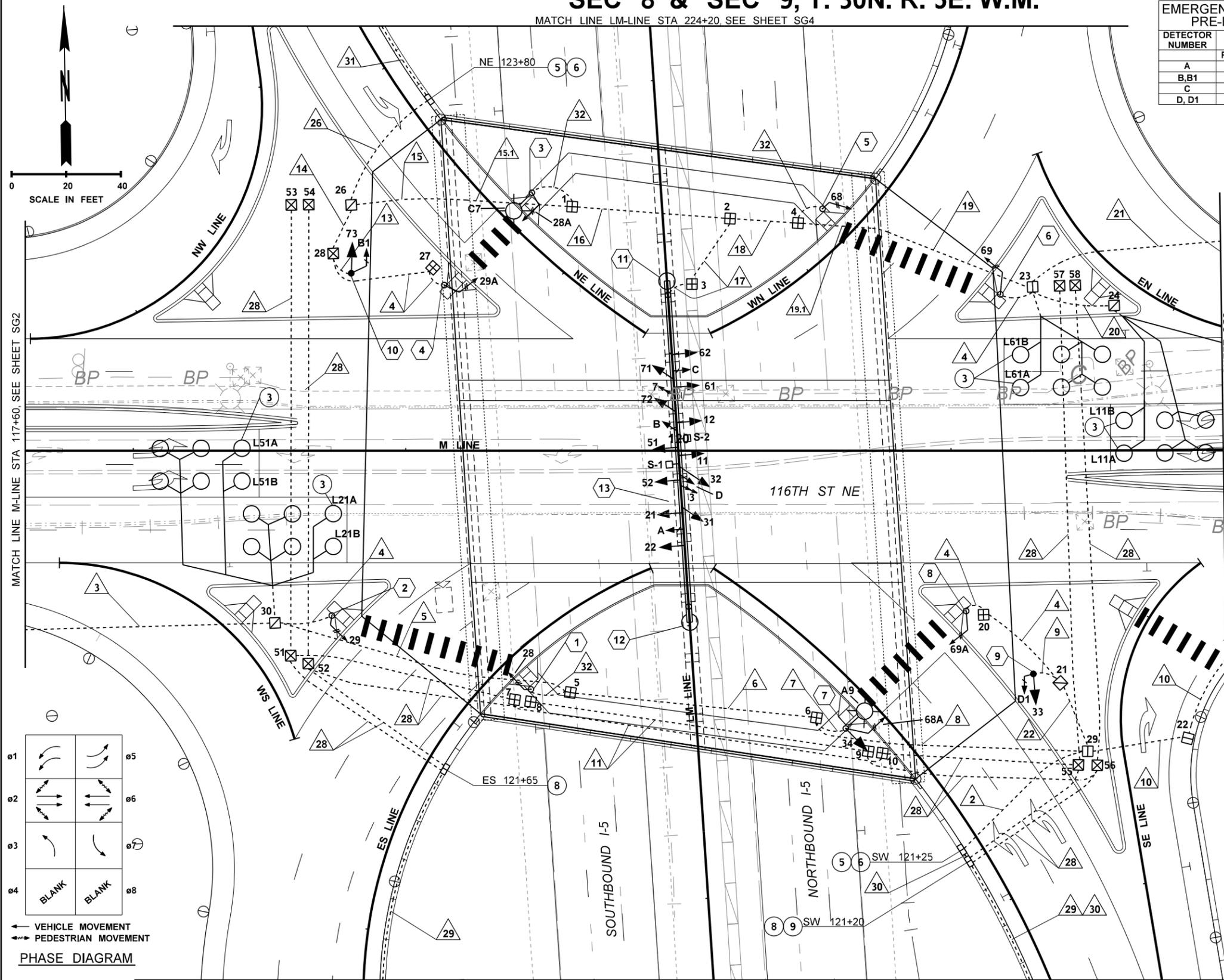
- ALL PUSHBUTTONS SHALL BE POLARA (NAVIGATOR SERIES). SEE SPECIAL PROVISIONS

SIGNAL HEAD DISPLAY NOTES:

- ALL VEHICLE SIGNAL HEADS SHALL HAVE 12" LENSES AND LED LIGHT SOURCES.
- ALL SIGN BRIDGE MOUNTED VEHICLE SIGNAL HEADS SHALL HAVE TYPE "M" MOUNTING HARDWARE, UNLESS SPECIFIED OTHERWISE.
- VEHICLE SIGNAL HEAD NUMBERS 33 AND 73 SHALL HAVE TYPE "D" MOUNTING HARDWARE.
- VEHICLE SIGNAL HEAD NUMBER 34 SHALL HAVE TYPE "K" MOUNTING HARDWARE.
- ALL VEHICLE SIGNAL HEADS SHALL HAVE 5" VANED BACKPLATES AND POLYCARBONATE TUNNEL VISORS. BACKPLATES AND VISORS SHALL BE PAINTED FLAT BLACK.
- INSTALL DIRECTIONALLY LOUVERED VISOR ON VEHICLE HEADS 33 AND 73. INSTALL ON OTHER HEADS AS REQUIRED. OPTICALLY PROGRAMMED VEHICLE SIGNAL HEADS ARE NOT ALLOWED.
- ALL PEDESTRIAN SIGNAL HEADS SHALL BE COUNTDOWN TYPE WITH LED LIGHT SOURCES.
- PEDESTRIAN SIGNAL HEADS 28, 29, 29A, 68, 69, AND 69A SHALL HAVE TYPE "D" MOUNTING HARDWARE.
- PEDESTRIAN SIGNAL HEADS 28A AND 68A SHALL HAVE TYPE "E" MOUNTING HARDWARE.

SIGNAL LEGEND

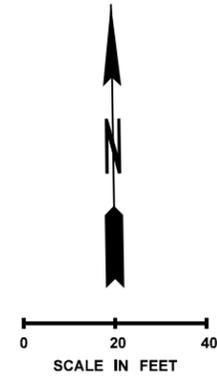
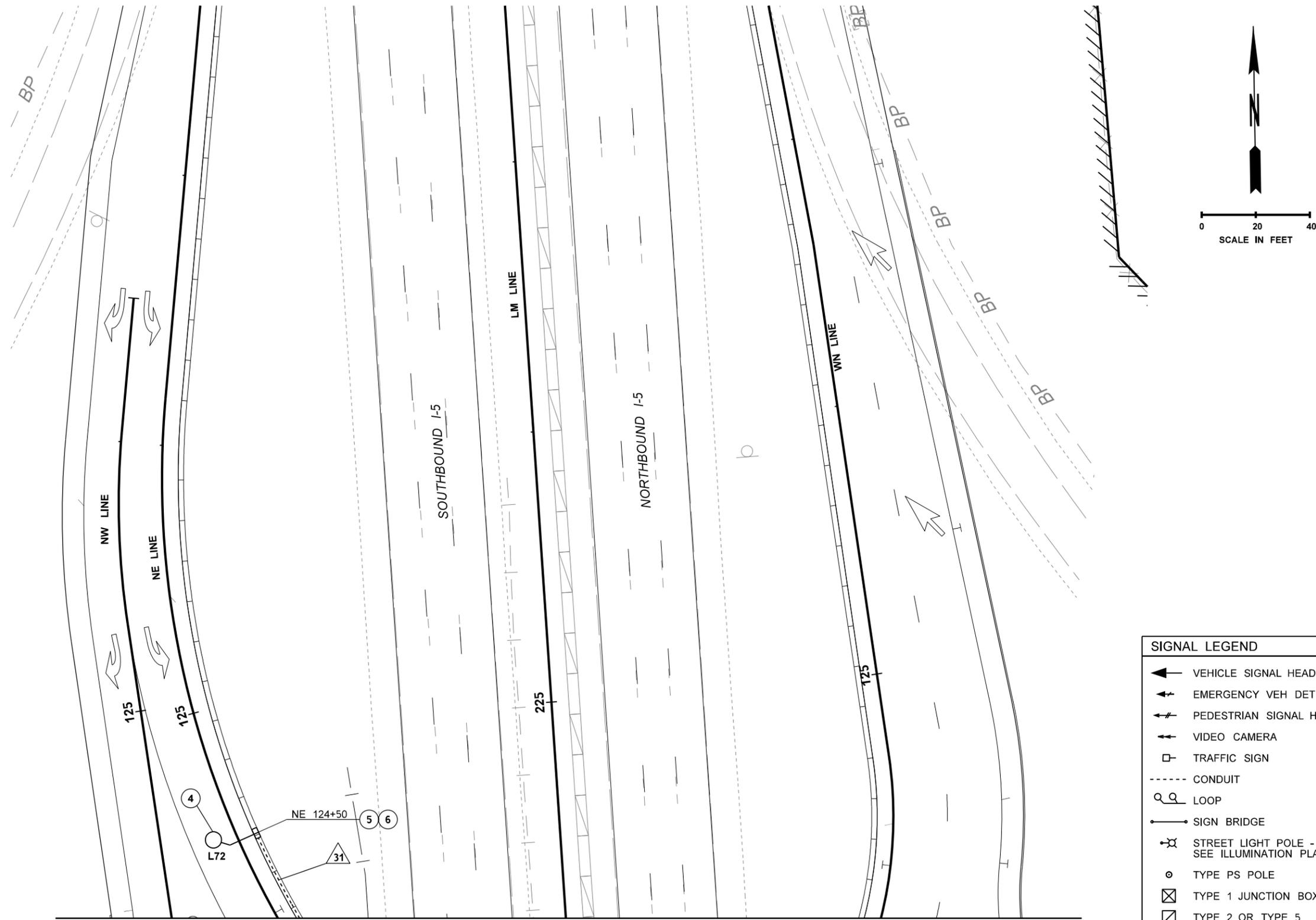
VEHICLE SIGNAL HEAD	TYPE 8 OR TYPE 6 JUNCTION BOX, SEE CONSTRUCTION NOTES
EMERGENCY VEH DETECTOR	CAST IRON JUNCTION BOX (ON STRUCTURE)
PEDESTRIAN SIGNAL HEAD	NEMA S.S. JUNCTION BOX (IN SEW TRAFFIC BARRIER)
VIDEO CAMERA	PULL BOX
TRAFFIC SIGN	TRANSFORMER
CONDUIT	UPS CABINET
LOOP	CONTROLLER CABINET
SIGN BRIDGE	SERVICE CABINET
STREET LIGHT POLE - SEE ILLUMINATION PLANS	CONDUIT / WIRE NOTE
TYPE PS POLE	SIGNAL STANDARD NOTE
TYPE 1 JUNCTION BOX	CONSTRUCTION NOTE
TYPE 2 OR TYPE 5 JUNCTION BOX, SEE CONSTRUCTION NOTES	



MATCH LINE LM-LINE STA 220+70, SEE SHEET SG3

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svc\CADDIPS&ESheets\BL1598033_PS_SG.dgn	TIME 12:29:20 PM	DATE 6/14/2012	PLOTTED BY purgabut	DESIGNED BY R. FRANKLIN	ENTERED BY C.D. CLARK	CHECKED BY E. SCHOTT	PROJ. ENGR. S. SHAKLAWUN	REGIONAL ADM. L. ENG	REVISION DATE BY	REGION NO. 10	STATE WASH	JOB NUMBER	CONTRACT NO.	LOCATION NO.	DATE P.E. STAMP BOX	DATE P.E. STAMP BOX			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS SIGNALIZATION PLAN	Plot 1 PLAN REF NO SG1 SHEET OF SHEETS
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SEC 8, T. 30N. R. 5E. W.M.

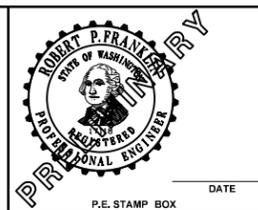


SIGNAL LEGEND	
	VEHICLE SIGNAL HEAD
	EMERGENCY VEH DETECTOR
	PEDESTRIAN SIGNAL HEAD
	VIDEO CAMERA
	TRAFFIC SIGN
	CONDUIT
	LOOP
	SIGN BRIDGE
	STREET LIGHT POLE - SEE ILLUMINATION PLANS
	TYPE PS POLE
	TYPE 1 JUNCTION BOX
	TYPE 2 OR TYPE 5 JUNCTION BOX, SEE CONSTRUCTION NOTES
	TYPE 8 OR TYPE 6 JUNCTION BOX, SEE CONSTRUCTION NOTES
	CAST IRON JUNCTION BOX (ON STRUCTURE)
	NEMA S.S. JUNCTION BOX (IN SEW TRAFFIC BARRIER)
	PULL BOX
	TRANSFORMER
	UPS CABINET
	CONTROLLER CABINET
	SERVICE CABINET
	CONDUIT / WIRE NOTE
	SIGNAL STANDARD NOTE
	CONSTRUCTION NOTE

MATCH LINE LM-LINE STA 224+20, SEE SHEET SG1

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DESIGNED BY	R. FRANKLIN	CONTRACT NO.	LOCATION NO.
ENTERED BY	C.D. CLARK		
CHECKED BY	E. SCHOTT		
PROJ. ENGR.	S. SHAKLAWUN		
REGIONAL ADM.	L. ENG	REVISION	DATE BY

FED.AID PROJ.NO.	
P.E. STAMP BOX	DATE



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 4 PLAN REF NO SG4
SIGNALIZATION PLAN	SHEET OF SHEETS

SIGNAL STANDARD NOTES

- ① FURNISH AND INSTALL TYPE PS SIGNAL STANDARD WITH PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON ASSEMBLY NUMBER 28. SEE BRIDGE PLANS.
- ② FURNISH AND INSTALL TYPE PS SIGNAL STANDARD WITH PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON ASSEMBLY NUMBER 29.
- ③ FURNISH AND INSTALL STEEL STREET LIGHT STANDARD WITH LUMINAIRE NUMBER C7, AND PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON ASSEMBLY NUMBER 28A. SEE ILLUMINATION PLANS, AND BRIDGE PLANS.
- ④ FURNISH AND INSTALL TYPE PS SIGNAL STANDARD WITH PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON ASSEMBLY NUMBER 29A. SEE BRIDGE PLANS.
- ⑤ FURNISH AND INSTALL TYPE PS SIGNAL STANDARD WITH PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON ASSEMBLY NUMBER 68. SEE BRIDGE PLANS.
- ⑥ FURNISH AND INSTALL TYPE PS SIGNAL STANDARD WITH PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON ASSEMBLY NUMBER 69.
- ⑦ FURNISH AND INSTALL STEEL STREET LIGHT STANDARD WITH LUMINAIRE NUMBER A9, VEHICLE SIGNAL HEAD NUMBER 34, AND PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON ASSEMBLY NUMBER 68A. SEE ILLUMINATION PLANS, AND BRIDGE PLANS.
- ⑧ FURNISH AND INSTALL TYPE PS SIGNAL STANDARD WITH PEDESTRIAN SIGNAL HEAD AND PUSH BUTTON ASSEMBLY NUMBER 69A. SEE BRIDGE PLANS.
- ⑨ FURNISH AND INSTALL TYPE FB SIGNAL STANDARD WITH 16 - FOOT POLE, VEHICLE SIGNAL HEAD NUMBER 33 AND ADVANCE EMERGENCY VEHICLE DETECTOR D1. INSTALL LOUVERS ON VEHICLE SIGNAL HEAD TO RESTRICT VISION FROM THE RIGHT TURN LANE. INSTALL DETECTOR 6 INCHES FROM THE TOP OF THE POLE.
- ⑩ FURNISH AND INSTALL TYPE FB SIGNAL STANDARD WITH 16 - FOOT POLE, VEHICLE SIGNAL HEAD NUMBER 73 AND ADVANCE EMERGENCY VEHICLE DETECTOR B1. INSTALL LOUVERS ON VEHICLE SIGNAL HEAD TO RESTRICT VISION FROM THE RIGHT TURN LANE. INSTALL DETECTOR 6 INCHES FROM THE TOP OF THE POLE.
- ⑪ FURNISH AND INSTALL TERMINAL CABINET ON SIGN BRIDGE SUPPORT. SEE BRIDGE PLANS.
- ⑫ SIGN BRIDGE SUPPORT. SEE BRIDGE PLANS.
- ⑬ FURNISH AND INSTALL SQUARE SIGN BRIDGE WITH VEHICLE SIGNAL HEAD NUMBERS 11, 12, 21, 22, 31, 32, 51, 52, 61, 62, 71, AND 72, EMERGENCY VEHICLE DETECTORS A, B, C, AND D, VIDEO CAMERAS 3 & 7, AND TWO TRAFFIC SIGNS. SEE BRIDGE PLANS.

SIGNAL CONSTRUCTION NOTES

- ① CONSTRUCT FOUNDATION FOR CONTROLLER CABINET, UPS CABINET, TRANSFORMER, AND SERVICE CABINET PER STANDARD PLAN J-10.10-01 FOR A FOUR CABINET FOUNDATION. LOCATE SE CORNER OF FOUNDATION PAD AT STA M 122+65, 85' LT. FURNISH AND INSTALL TYPE 332D CONTROLLER CABINET WITH TYPE 2070L CONTROLLER, 7.5 KVA TRANSFORMER, TYPE E (240/480 VOLT) SERVICE CABINET, AND TYPE 332 CABINET WITH UNINTERRUPTABLE POWER SUPPLY. SEE ILLUMINATION PLANS FOR CONNECTION TO POWER VAULT, SERVICE CABINET DETAILS, AND BREAKER SCHEDULES.
- ② FURNISH AND INSTALL ONE STANDARD DUTY PULL BOX ADJACENT TO THE CONTROLLER CABINET FOR THE SIGNAL FIELD WIRES.
- ②.1 FURNISH AND INSTALL ONE STANDARD DUTY PULL BOX ADJACENT TO THE CONTROLLER CABINET FOR THE COMMUNICATION FIELD WIRES.
- ③ INSTALL TYPE 3 STOP LINE LOOP. CENTER IN TRAFFIC LANE. SEE DETAIL 1, SHEET SG8 FOR LOCATION.
- ④ INSTALL TYPE 3 ADVANCE LOOP. CENTER IN TRAFFIC LANE. SEE DETAIL 1, SHEET SG8 FOR LOCATION.
- ⑤ ROUTE CONDUITS FROM GROUND INTO JUNCTION BOX IN SEW TRAFFIC BARRIER.
- ⑥ INSTALL NEMA 4X NON-ADJUSTABLE S.S. JUNCTION BOX IN SEW TRAFFIC BARRIER AT LOCATION SHOWN. FIELD ADJUST LOCATION TO PREVENT INSTALLATION AT JOINTS.
- ⑦ ROUTE CONDUITS OUT OF SEW TRAFFIC BARRIER AND INSTALL EACH CONDUIT INTO A TYPE 4 JUNCTION BOX LOCATED IN THE SHOULDER AT THE END OF THE BARRIER.
- ⑧ INSTALL TWO (2) NEMA 4X NON-ADJUSTABLE S.S. JUNCTION BOXES IN SEW TRAFFIC BARRIER AT LOCATION SHOWN. ROUTE ONE (1) 2" CONDUIT FROM GROUND INTO EACH BOX. FIELD ADJUST LOCATIONS TO PREVENT INSTALLATION AT JOINTS.
- ⑨ BYPASS JUNCTION BOX WITH CONDUIT RUN #30.
- ⑩ BYPASS JUNCTION BOX WITH CONDUIT RUN #29.

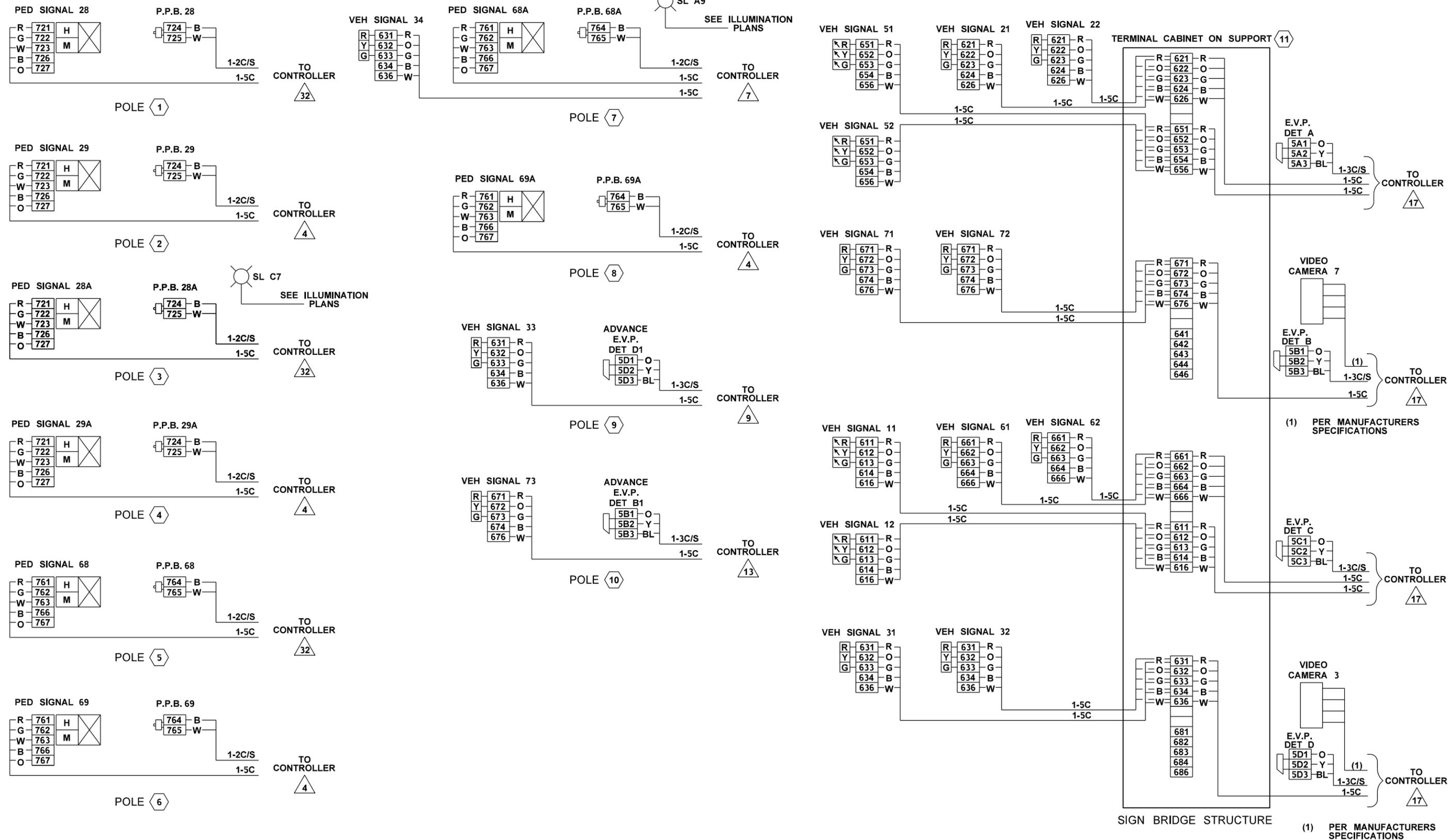
GENERAL SIGNAL NOTES

- 1. INSTALL A BONDING CABLE IN ALL EXISTING CONDUITS TO REMAIN THAT ARE PART OF THE ELECTRICAL SYSTEM MODIFIED OR ALTERED BY THIS CONTRACT. THE BONDING CABLE SHALL BE INSTALLED PER NEC REQUIREMENTS AND WSDOT SPECIAL PROVISIONS.
- 2. ALL EXISTING JUNCTION BOXES TO REMAIN THAT ARE A PART OF THE ELECTRICAL SYSTEM MODIFIED OR ALTERED BY THIS CONTRACT SHALL BE UPDATED TO CURRENT BONDING AND GROUNDING REQUIREMENTS OF THE NEC AND WSDOT SPECIAL PROVISIONS.
- 3. FURNISH AND INSTALL EXPANSION/DEFLECTION FITTINGS AT EVERY CONDUIT POINT THAT TRANSITIONS FROM STRUCTURE TO GRADE, FROM STRUCTURE TO BRIDGE APPROACH SLAB, AND FROM BRIDGE APPROACH SLAB TO GRADE.

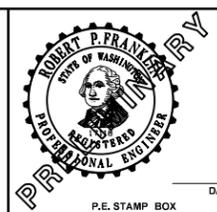
GENERAL SIGNAL EQUIPMENT REMOVAL NOTES

- 1. WHEN THE TEMPORARY SIGNAL SYSTEMS ARE INSTALLED AND FUNCTIONAL, THE CONTRACTOR SHALL REMOVE ALL EXISTING SIGNAL EQUIPMENT THAT IS NOT BEING UTILIZED AS A PART OF THE TEMPORARY SYSTEMS INCLUDING, BUT NOT LIMITED TO, POLES WITH ATTACHED SIGNAL EQUIPMENT, FOUNDATIONS, JUNCTION BOXES, CONDUIT AND WIRE, CABINETS, SERVICE CONNECTIONS, AND OTHER MISCELLANEOUS EQUIPMENT. (SEE STAGE 1 TEMPORARY SIGNAL PLANS). THE REMAINING EQUIPMENT SHALL BE REMOVED AS CONSTRUCTION PROGRESSES AND THE EQUIPMENT IS NO LONGER NEEDED.
- 2. SEE SPECIAL PROVISIONS FOR REMOVAL REQUIREMENTS, RESTORATION, DISPOSAL, AND ITEMS TO BE SALVAGED.

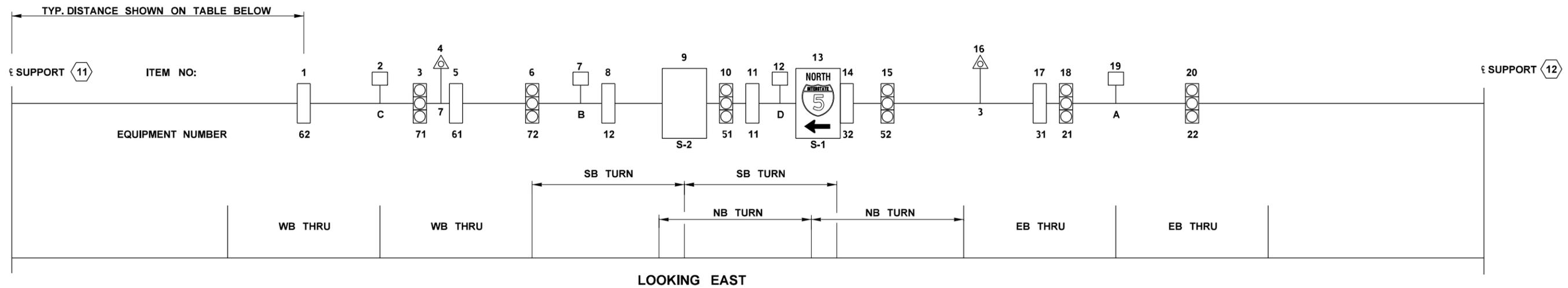
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DESIGNED BY	R. FRANKLIN										SHEETS	
ENTERED BY	C.D. CLARK											
CHECKED BY	E. SCHOTT											
PROJ. ENGR.	S. SHAKLAWUN											
REGIONAL ADM.	L. ENG	REVISION	DATE	BY								



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DESIGNED BY	R. FRANKLIN	LOCATION NO.			SHEETS		
ENTERED BY	C.D. CLARK						
CHECKED BY	E. SCHOTT						
PROJ. ENGR.	S. SHAKLAWUN						
REGIONAL ADM.	L. ENG	REVISION	DATE	BY			



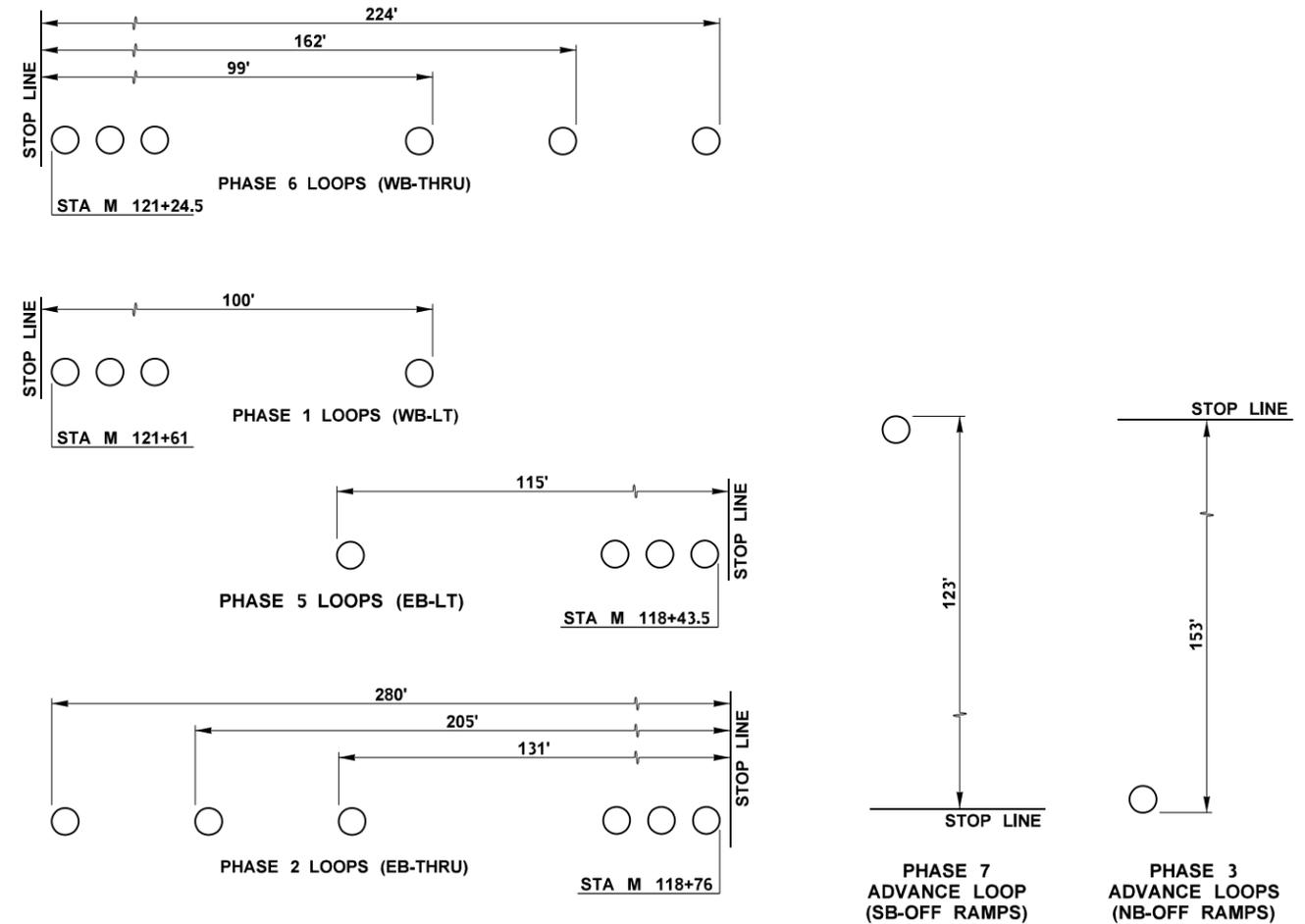
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
SIGNALIZATION NOTES AND DETAILS



SIGN BRIDGE EQUIPMENT ATTACHMENT LOCATIONS AND LOADING TABLE

ITEM NO.	DISTANCE FROM SUPPORT 11	ATTACHMENT ORIENTATION (2)		ITEM DESCRIPTION	WIND LOAD AREA (FT) ² XY	NOTES
		WEST SIDE	EAST SIDE			
1	27'	-	X	VEH SIG 62	9.2	(1)
2	33'	-	-	EVP DET C	N/A	(3)
3	36'	X	-	VEH SIG 71	9.2	(1)
4	42'	-	-	CAMERA 7	N/A	(4)
5	39'	-	X	VEH SIG 61	9.2	(1)
6	48'	X	-	VEH SIG 72	9.2	(1)
7	55'	-	-	EVP DET B	N/A	(3)
8	52'	-	X	VEH SIG 12	9.2	(1)
9	58'	-	X	SIGN S-2	32.0	(5)
10	61'	X	-	VEH SIG 51	9.2	(1)
11	64'	-	X	VEH SIG 11	9.2	(1)
12	71'	-	-	EVP DET D	N/A	(3)
13	67'	X	-	SIGN S-1	32.0	(5)
14	68'	-	X	VEH SIG 32	9.2	(1)
15	73'	X	-	VEH SIG 52	9.2	(1)
16	75'	-	-	CAMERA 3	N/A	(4)
17	83'	-	X	VEH SIG 31	9.2	(1)
18	85'	X	-	VEH SIG 21	9.2	(1)
19	91'	-	-	EVP DET A	N/A	(3)
20	97'	X	-	VEH SIG 22	9.2	(1)

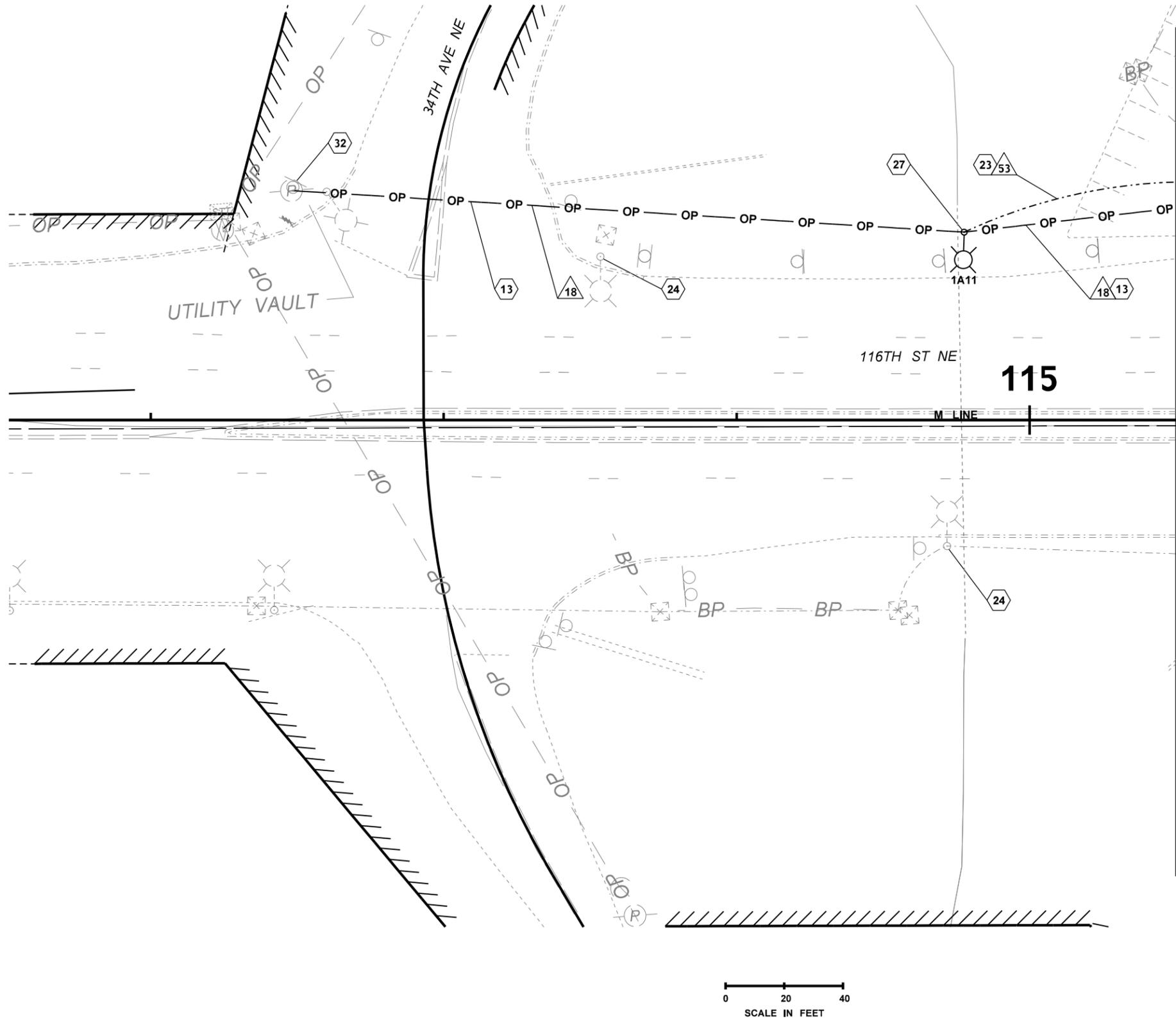
- (1) INSTALL 8" LONG PIPE TENON FOR VEHICLE SIGNAL HEAD W/ TYPE "M" MOUNTING HARDWARE AT LOCATION NOTED
- (2) WHERE ORIENTATION IS NOT NOTED, EQUIPMENT SHALL BE INSTALLED ON THE TOP OF THE SIGN BRIDGE AND ORIENTED AS SHOWN ON THE PLANS
- (3) FIELD DRILL AND TAP FOR EVP DETECTOR AT APPROX. LOCATION SHOWN. FIELD ADJUST PRIOR TO DRILLING FOR MAXIMUM VISIBILITY.
- (4) FIELD INSTALL PER MANUFACTURER'S RECOMMENDATIONS
- (5) FIELD INSTALL PER STANDARD PLANS



**DETAIL 1
VEHICLE DETECTION LOOP LOCATIONS**

FILE NAME: U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svcs\CADDIPS&ESheets\BL1598033_PS_SG.dgn				REGION NO. STATE		FED.AID PROJ.NO.		DATE		Plot 8	
TIME: 12:31:44 PM				10 WASH						PLAN REF NO	
DATE: 6/14/2012										SG8	
PLOTTED BY: purgabut				JOB NUMBER						SHEET	
DESIGNED BY: R. FRANKLIN				CONTRACT NO.		LOCATION NO.				OF	
ENTERED BY: C.D. CLARK										SHEETS	
CHECKED BY: E. SCHOTT										SIGNALIZATION NOTES AND DETAILS	
PROJ. ENGR.: S. SHAKLAWUN				REVISION		DATE		BY			
REGIONAL ADM.: L. ENG											

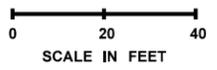
SEC 8, T. 30N. R. 5E. W.M.



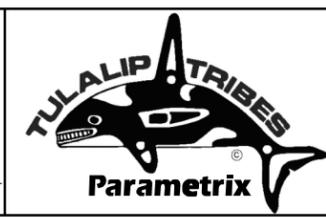
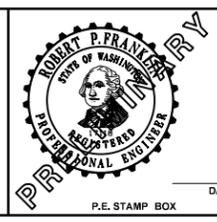
MATCH LINE M-LINE STA 115+50, SEE SHEET TSG2

GENERAL NOTE:
 1. FOR STAGE 1 TEMPORARY SIGNAL/ILLUMINATION CONSTRUCTION NOTES, WIRING SCHEDULES, AND WIRING DIAGRAMS, SEE SHEET TSG7 - TSG10.

LEGEND			
←	VEHICLE SIGNAL HEAD	---	CONDUIT
←	EMERGENCY VEH DET	⊙	STREET LIGHT
→	PEDESTRIAN SIGNAL HEAD	⊠	TYPE 1 JUNCTION BOX
←	VIDEO DETECTION CAMERA	⊡	TYPE 2 JUNCTION BOX
□	AERIAL TERMINAL BOX	⊞	CONTROLLER CABINET
⊠	TRAFFIC SIGN	⊞	SERVICE CABINET
---	OVERHEAD ILLUMINATION CIRCUIT WIRES	⊗	CONDUIT / WIRE NOTE
-OP-	OVERHEAD SERVICE WIRES	⊗	CONSTRUCTION NOTE
		⊙	POLE NUMBER



FILE NAME U:\BellProjects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3199Svcs\CADDIPS&ESheets\BL1598033_PS_TSG.dgn		REGION NO. STATE		FED.AID PROJ.NO.		DATE		PLOT 1	
TIME 12:34:49 PM		10 WASH				P.E. STAMP BOX		PLAN REF NO	
DATE 6/14/2012		JOB NUMBER				P.E. STAMP BOX		TSG1	
PLOTTED BY purgabut		CONTRACT NO.		LOCATION NO.				SHEET	
DESIGNED BY R. FRANKLIN								OF	
ENTERED BY C.D. CLARK								SHEETS	
CHECKED BY E. SCHOTT									
PROJ. ENGR. S. SHAKLAWUN									
REGIONAL ADM. L. ENG		REVISION		DATE		BY			



I-5
 116TH ST NE
 INTERCHANGE IMPROVEMENTS
 STAGE 1 - TEMPORARY SIGNALIZATION
 AND ILLUMINATION PLAN

TEMPORARY SIGNAL/ILLUMINATION CONSTRUCTION NOTES - STAGE 1:

- 1 FURNISH AND INSTALL 50' CLASS H1 WOOD STRAIN POLE AT STA 116+16, 87' LT WITH THE FOLLOWING EQUIPMENT:
 - * VEHICLE SIGNAL HEAD 43 WITH TYPE "K" MOUNTING HARDWARE.
 - * PEDESTRIAN SIGNAL HEAD 68 WITH TYPE "B" MOUNTING HARDWARE (CONSTRUCT DURING STAGE 1, BUT DO NOT ACTIVATE UNTIL STAGE 2).
 - * PEDESTRIAN PUSHBUTTON 68, TYPE PPB-W (CONSTRUCT DURING STAGE 1, BUT DO NOT ACTIVATE UNTIL STAGE 2).
 - * TRAFFIC SIGNAL CONTROLLER CABINET AND CONTROLLER. BAND CABINET TO BACK OF POLE WITH BOTTOM OF CABINET 4' ABOVE GROUND.
 - * SPAN WIRE ATTACHMENT HARDWARE AT 34.5' FOR SIGNAL CABLES (SPAN 1-3).
 - * SPAN WIRE ATTACHMENT HARDWARE AT 25' FOR SIGNAL CABLES (SPAN 1-2).
 - * SPAN WIRE ATTACHMENT HARDWARE AT 25' FOR LIGHTING CIRCUIT WIRES.
 - * CONDUIT AND WIRE ON POLE BETWEEN PEDESTRIAN SIGNAL HEAD, PUSH BUTTON AND CONTROLLER.
 - * CONDUIT AND WIRE ON POLE BETWEEN VEHICLE SIGNAL AND CONTROLLER.
 - * WEATHERHEAD AND CONDUIT ON POLE BETWEEN CONTROLLER CABINET AND SPAN WIRE.
 - * WEATHERHEAD AND CONDUIT ON POLE FROM SERVICE CABINET TO LUMINAIRES ON STRAIN POLES.
 - * CONDUIT ON POLE BETWEEN CONTROLLER CABINET AND ADJACENT JUNCTION BOX FOR CONNECTION TO EXISTING PEDESTRIAN EQUIPMENT AND FOR SERVICE WIRES FROM SERVICE CABINET.
 - * 250 WATT HPS LUMINAIRE, 30' MOUNTING HEIGHT, 12' ARM.
 - * TWO (2) DOWN GUY ANCHORS.
 FOUNDATION DEPTH = 11', SEE DETAIL 1, SHEET TSG8.
 NOTE: ATTACHMENT HEIGHTS BASED ON GROUND ELEVATION AT POLE = 82.4 (EXISTING)

- 2 FURNISH AND INSTALL 40' CLASS 2 WOOD STRAIN POLE AT STA 116+90, 83' LT WITH THE FOLLOWING EQUIPMENT:
 - * PEDESTRIAN SIGNAL HEAD 69 WITH TYPE "B" MOUNTING HARDWARE (CONSTRUCT DURING STAGE 1, BUT DO NOT ACTIVATE UNTIL STAGE 2).
 - * PEDESTRIAN PUSHBUTTON 69, TYPE PPB-W (CONSTRUCT DURING STAGE 1, BUT DO NOT ACTIVATE UNTIL STAGE 2).
 - * SPAN WIRE ATTACHMENT HARDWARE AT 25' FOR SIGNAL CABLES.
 - * SPAN WIRE ATTACHMENT HARDWARE AT 25' FOR LIGHTING CIRCUIT WIRES.
 - * WEATHERHEAD, CONDUIT, AND WIRE ON POLE BETWEEN PEDESTRIAN SIGNAL HEAD, PUSH BUTTON AND SPAN WIRE.
 - * WEATHERHEAD, CONDUIT, AND WIRE ON POLE TO ADJACENT JUNCTION BOX FOR CONNECTION TO EXISTING PEDESTRIAN EQUIPMENT.
 - * 250 WATT HPS LUMINAIRE, 30' MOUNTING HEIGHT, 12' ARM.
 - * ONE (1) DOWN GUY ANCHOR.
 FOUNDATION DEPTH = 8', SEE DETAIL 1, SHEET TSG8.
 NOTE: ATTACHMENT HEIGHTS BASED ON GROUND ELEVATION AT POLE = 83.2 (DESIGN)

- 3 FURNISH AND INSTALL 50' CLASS H1 WOOD STRAIN POLE AT STA 116+73, 48' RT WITH THE FOLLOWING EQUIPMENT:
 - * SPAN WIRE ATTACHMENT HARDWARE AT 35.5' FOR SIGNAL CABLES.
 - * SPAN WIRE ATTACHMENT HARDWARE AT 25' FOR LIGHTING CIRCUIT WIRES.
 - * WEATHERHEAD AND CONDUIT ON POLE TO EXISTING JUNCTION BOX FOR CONNECTION TO EXISTING PEDESTRIAN SIGNAL EQUIPMENT.
 - * 250 WATT HPS LUMINAIRE, 30' MOUNTING HEIGHT, 12' ARM.
 - * TWO (2) DOWN GUY ANCHORS.
 FOUNDATION DEPTH = 11', SEE DETAIL 1, SHEET TSG8.
 NOTE: ATTACHMENT HEIGHTS BASED ON GROUND ELEVATION AT POLE = 80.8 (EXISTING)

- 4 FURNISH AND INSTALL 55' CLASS 2 WOOD POLE WITH THE FOLLOWING EQUIPMENT:
 - * 400 WATT HPS LUMINAIRE WITH 16' ARM AT 45' MOUNTING HEIGHT.
 - * SPAN WIRE ATTACHMENT HARDWARE FOR LIGHT CIRCUIT WIRES.
 BURY DEPTH = 9'.
 SEE TEMPORARY LIGHT POLE LOCATION TABLE, SHEET TSG9.

- 5 FURNISH AND INSTALL 40' CLASS 2 WOOD STRAIN POLE AT STA 123+75, 120' LT WITH THE FOLLOWING EQUIPMENT:
 - * PEDESTRIAN SIGNAL HEAD 69 WITH TYPE "B" MOUNTING HARDWARE (CONSTRUCT DURING STAGE 1, BUT DO NOT ACTIVATE UNTIL STAGE 2).
 - * PEDESTRIAN PUSHBUTTON 69, TYPE PPB-W (CONSTRUCT DURING STAGE 1, BUT DO NOT ACTIVATE UNTIL STAGE 2).
 - * TRAFFIC SIGNAL CONTROLLER CABINET AND CONTROLLER. BAND CABINET TO BACK OF POLE WITH BOTTOM OF CABINET AT 4' ABOVE GROUND.
 - * SPAN WIRE ATTACHMENT HARDWARE AT 28' FOR SIGNAL CABLES (SPAN 5-9).
 - * SPAN WIRE ATTACHMENT HARDWARE AT 30' FOR SIGNAL CABLES (SPAN 5-6).
 - * SPAN WIRE ATTACHMENT HARDWARE AT 25' FOR LIGHTING CIRCUIT WIRES.
 - * CONDUIT AND WIRE ON POLE BETWEEN PEDESTRIAN SIGNAL HEAD, PUSH BUTTON, AND CONTROLLER CABINET.
 - * WEATHERHEAD AND CONDUIT ON POLE FOR SERVICE WIRES TO CONTROLLER CABINET.
 - * WEATHERHEAD AND CONDUIT ON POLE BETWEEN CONTROLLER CABINET AND SPAN WIRE.
 - * 250 WATT HPS LUMINAIRE, 30' MOUNTING HEIGHT, 12' ARM.
 - * ONE (1) DOWN GUY ANCHOR.
 FOUNDATION DEPTH = 9', SEE DETAIL 1, SHEET TSG8.
 NOTE: ATTACHMENT HEIGHTS BASED ON GROUND ELEVATION AT POLE = 81.7 (DESIGN)

- 6 FURNISH AND INSTALL 50' CLASS 1 WOOD STRAIN POLE AT STA 122+80, 92' LT WITH THE FOLLOWING EQUIPMENT:
 - * PEDESTRIAN SIGNAL HEAD 68 WITH TYPE "B" MOUNTING HARDWARE (CONSTRUCT DURING STAGE 1, BUT DO NOT ACTIVATE UNTIL STAGE 2).
 - * PEDESTRIAN PUSHBUTTON 68, TYPE PPB-W (CONSTRUCT DURING STAGE 1, BUT DO NOT ACTIVATE UNTIL STAGE 2).
 - * SPAN WIRE ATTACHMENT HARDWARE AT 34.5' FOR SIGNAL CABLES (SPAN 6-7)
 - * SPAN WIRE ATTACHMENT HARDWARE AT 31' FOR SIGNAL CABLES (SPAN 5-6)
 - * SPAN WIRE ATTACHMENT HARDWARE AT 25' FOR LIGHT CIRCUIT WIRES
 - * WEATHERHEAD, CONDUIT, AND WIRE ON POLE BETWEEN PEDESTRIAN SIGNAL HEAD, PUSHBUTTON, AND SPAN WIRE.
 - * WEATHERHEAD AND CONDUIT ON POLE TO ADJACENT JUNCTION BOX FOR CONNECTION TO EXISTING PEDESTRIAN EQUIPMENT.
 - * 250 WATT HPS LUMINAIRE, 30' MOUNTING HEIGHT, 12' ARM
 - * TWO (2) DOWN GUY ANCHORS
 FOUNDATION DEPTH = 11', SEE DETAIL 1, SHEET TSG8
 NOTE: ATTACHMENT HEIGHTS BASED ON GROUND ELEVATION AT POLE = 81.2 (DESIGN)

- 7 FURNISH AND INSTALL 45' CLASS 2 WOOD STRAIN POLE AT STA 123+20, 38' RT WITH THE FOLLOWING EQUIPMENT:
 - * SPAN WIRE ATTACHMENT HARDWARE AT 32.5' FOR SIGNAL CABLES
 - * SPAN WIRE ATTACHMENT HARDWARE AT 25' FOR LIGHTING CIRCUIT WIRES
 - * 250 WATT HPS LUMINAIRE, 30' MOUNTING HEIGHT, 12' ARM
 - * ONE (1) DOWN GUY ANCHOR
 FOUNDATION DEPTH = 9', SEE DETAIL 1, SHEET TSG8
 NOTE: ATTACHMENT HEIGHTS BASED ON GROUND ELEVATION AT POLE = 83.5 (EXIST)

- 8 FURNISH AND INSTALL 40' CLASS 2 WOOD STRAIN POLE AT STA 123+87, 63' RT WITH THE FOLLOWING EQUIPMENT:
 - * PEDESTRIAN SIGNAL HEAD 89 WITH TYPE "B" MOUNTING HARDWARE
 - * PEDESTRIAN PUSHBUTTON 89, TYPE PPB-W
 - * SPAN WIRE ATTACHMENT HARDWARE AT 30' FOR SIGNAL CABLES
 - * SPAN WIRE ATTACHMENT HARDWARE AT 25' FOR LIGHTING CIRCUIT WIRES
 - * WEATHERHEAD, CONDUIT AND WIRE ON POLE BETWEEN PEDESTRIAN SIGNAL HEAD, PUSHBUTTON, AND SPAN WIRE.
 - * ONE (1) DOWN GUY ANCHOR
 FOUNDATION DEPTH 8', SEE DETAIL 1, SHEET TSG8
 NOTE: ATTACHMENT HEIGHTS BASED ON GROUND ELEVATION AT POLE = 81.8 (EXIST)

- 9 FURNISH AND INSTALL 40' CLASS 2 WOOD STRAIN POLE AT STA 124+05, 45' LT WITH THE FOLLOWING EQUIPMENT:
 - * PEDESTRIAN SIGNAL HEADS 69 AND 88 WITH TYPE "A" MOUNTING HARDWARE
 - * PEDESTRIAN PUSHBUTTONS 69 AND 88, TYPE PPB-W
 - * SPAN WIRE ATTACHMENT HARDWARE AT 30' FOR SIGNAL CABLES (SPAN 8-9)
 - * SPAN WIRE ATTACHMENT HARDWARE AT 28' FOR SIGNAL CABLES (SPAN 5-9)
 - * WEATHERHEAD, CONDUIT, AND WIRE ON POLE BETWEEN PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS, AND SPAN WIRE
 - * 250 WATT HPS LUMINAIRE, 30' MOUNTING HEIGHT, 12' ARM
 - * ONE (1) DOWN GUY ANCHOR
 FOUNDATION DEPTH 8', SEE DETAIL 1, SHEET TSG8.
 NOTE: ATTACHMENT HEIGHTS BASED ON GROUND ELEVATION AT POLE = 82 (EXIST)

- 10 FURNISH AND INSTALL GALVANIZED STEEL MESSENGER CABLE AND FIELD WIRES. SEE TEMPORARY WIRING SCHEDULES, SHEET TSG8.
- 11 FURNISH AND INSTALL AERIAL TERMINAL BOX. SEE WIRE TERMINATION DETAILS.
- 12 FURNISH AND INSTALL GALVANIZED STEEL MESSENGER CABLE, SIGNAL EQUIPMENT, AND FIELD WIRES. SEE TEMPORARY WIRING SCHEDULES AND GENERAL NOTES.
- 13 FURNISH AND INSTALL GALVANIZED STEEL MESSENGER CABLE WITH SERVICE WIRES FROM TRANSFORMER TO SERVICE CABINET. MAINTAIN SEPARATION FROM ILLUMINATION CIRCUIT WIRES WHERE PRESENT.
- 14 NOT USED.
- 15 FURNISH AND INSTALL GALVANIZED STEEL MESSENGER CABLE WITH LIGHTING CIRCUIT WIRES AND CONTROLLER SERVICE WIRES. SEE TEMPORARY WIRING SCHEDULES, SHEET TSG8.
- 16 ROUTE CONDUIT(S) INTO EXISTING JUNCTION BOX.
- 17 FURNISH AND INSTALL WSDOT TYPE 2 JUNCTION BOX ADJACENT TO WOOD STRAIN POLE.
- 18 CONSTRUCT FOUNDATION ADJACENT TO SERVICE POLE. FURNISH AND INSTALL STRUT MOUNTED MODIFIED TYPE "B" SERVICE CABINET (SERVICE #1) FOR TEMPORARY SERVICE TO SIGNAL AND LIGHTING. SEE BREAKER SCHEDULE ON SHEET TSG8.
- 19 LOCATE AND UNCOVER EXISTING CONDUIT FROM SERVICE CABINET. FURNISH AND INSTALL WSDOT TYPE 2 JUNCTION BOX AND ROUTE CONDUIT INTO NEW BOX. INSTALL NEW SERVICE WIRES FOR SERVICE TO THE ADJACENT TEMPORARY SIGNAL AND ILLUMINATION SYSTEMS.

- 20 FURNISH AND INSTALL 40' CLASS 2 WOOD SERVICE POLE AT STA 115+95, 78' LT WITH THE FOLLOWING EQUIPMENT:
 - * SPAN WIRE ATTACHMENT HARDWARE FOR SERVICE WIRES FROM TRANSFORMER TO SERVICE CABINET.
 - * SPAN WIRE ATTACHMENT HARDWARE FOR LIGHTING CIRCUIT WIRES.
 - * WEATHERHEAD AND CONDUIT FOR SERVICE WIRES TO MODIFIED TYPE "B" SERVICE CABINET.
 - * WEATHERHEAD AND CONDUIT FOR LIGHTING CIRCUIT WIRES TO LUMINAIRES.
 BURY DEPTH = 8'.

- 21 CONNECT SIGNAL SERVICE WIRES TO EXISTING 50 AMP/120 VOLT CIRCUIT BREAKER (CIRCUIT "C") IN THE SERVICE CABINET. CONNECT ILLUMINATION WIRES FOR TEMPORARY CIRCUIT 2A TO EXISTING CIRCUIT A CONTACTOR IN CABINET. CONNECT ILLUMINATION WIRES FOR TEMPORARY CIRCUIT 2B TO EXISTING CIRCUIT B CONTACTOR IN CABINET.

- 22 FURNISH AND INSTALL 50' CLASS 2 WOOD POLE WITH THE FOLLOWING EQUIPMENT:
 - * 250 WATT HPS LUMINAIRE WITH 16' ARM AT 40' MOUNTING HEIGHT.
 - * SPAN WIRE ATTACHMENT HARDWARE FOR LIGHT CIRCUIT WIRES.
 BURY DEPTH = 8'.
 (CONSTRUCT DURING STAGE 1 BUT DO NOT ACTIVATE UNTIL STAGE 2)
 SEE TEMPORARY LIGHT POLE LOCATION TABLE, SHEET TSG9.

- 23 FURNISH AND INSTALL GALVANIZED STEEL MESSENGER CABLE AND LIGHTING CIRCUIT WIRES. SEE TEMPORARY WIRING SCHEDULES, SHEET TSG8.
- 24 MAINTAIN EXISTING STREET LIGHT THROUGH STAGE 1 CONSTRUCTION.
- 25 MAINTAIN EXISTING PEDESTRIAN FACILITIES THROUGH STAGE 1 CONSTRUCTION. REPLACE PEDESTRIAN SIGNAL HEADS WITH LED COUNT DOWN UNIT.
- 26 NOT USED
- 27 FURNISH AND INSTALL 50' CLASS 2 WOOD POLE WITH THE FOLLOWING EQUIPMENT:
 - * 250 WATT HPS LUMINAIRE WITH 16' ARM AT 40' MOUNTING HEIGHT.
 - * SPAN WIRE ATTACHMENT HARDWARE FOR SERVICE WIRES FROM TRANSFORMER TO SERVICE CABINET.
 - * SPAN WIRE ATTACHMENT HARDWARE FOR LIGHTING CIRCUIT WIRES.
 BURY DEPTH = 8'.
 SEE TEMPORARY LIGHT POLE LOCATION TABLE, SHEET TSG9.

- 28 FURNISH AND INSTALL 50' CLASS 2 WOOD POLE WITH THE FOLLOWING EQUIPMENT:
 - * 250 WATT HPS LUMINAIRE WITH 16' ARM AT 40' MOUNTING HEIGHT.
 - * SPAN WIRE ATTACHMENT HARDWARE FOR LIGHT CIRCUIT WIRES.
 BURY DEPTH = 8'.
 SEE TEMPORARY POLE LOCATION TABLE, SEE SHEET TSG9.

- 29 REPLACE FOUR (4) EXISTING 480 VOLT LUMINAIRES IN THE PARK AND RIDE LOT WITH 240 VOLT UNITS OF THE SAME WATTAGE.
- 30 FURNISH AND INSTALL CONDUIT AND WIRES BETWEEN SERVICE CABINET AND EXISTING JUNCTION BOX. SPLICE TO EXISTING LIGHTING CIRCUIT WIRES IN JUNCTION BOX TO CONNECT PARK AND RIDE LOT LUMINAIRES. SEE TEMPORARY WIRING SCHEDULES, SHEET TSG8.
- 31 FURNISH AND INSTALL CONDUIT INTO EXISTING "TS" JUNCTION BOX ADJACENT TO POLE.
- 32 ATTACH SPAN WIRE TO EXISTING WOOD POWER POLE WITH TRANSFORMER. COIL SERVICE WIRES FOR CONNECTION TO TRANSFORMER BY SNOHOMISH COUNTY PUD PERSONNEL. CONTACT SNOHOMISH COUNTY PUD PERSONNEL PRIOR TO WORK FOR MATERIAL AND INSTALLATION REQUIREMENTS.
- 33 FURNISH AND INSTALL 50' CLASS 2 WOOD POLE WITH THE FOLLOWING EQUIPMENT:
 - * 250 WATT HPS LUMINAIRE WITH 16' ARM AT 40' MOUNTING HEIGHT.
 - * SPAN WIRE ATTACHMENT HARDWARE FOR LIGHT CIRCUIT WIRES.
 - * WEATHERHEAD AND CONDUIT FOR LIGHT CIRCUIT WIRES TO EXISTING SERVICE CABINET.
 - * WEATHERHEAD AND CONDUIT FOR SERVICE WIRES TO NEW CONTROLLER.
 BURY DEPTH = 8'.
 SEE TEMPORARY LIGHT POLE LOCATION TABLE, SHEET TSG9.
- 34 REMOVE EXISTING CIRCUIT WIRES TO PEDESTRIAN FACILITIES AND INSTALL NEW PER THE TEMPORARY WIRING SCHEDULES, SHEET TSG8.

NOTE:
 THE ATTACHMENT HEIGHTS GIVEN FOR THE SPAN WIRE CABLES AT THE POLES ARE BASED ON A SPECIFIC GROUND ELEVATION AT EACH POLE TO ALLOW A MAXIMUM 6% SAG WITH 17' CLEARANCE AT THE ROADWAY CENTERLINE. THESE ELEVATIONS ARE IDENTIFIED ON THE CONSTRUCTION NOTES. SOME ARE EXISTING GROUND ELEVATIONS AND OTHERS ARE DESIGN ELEVATIONS DEPENDING ON THE STAGE OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE GROUND ELEVATION AT EACH OF THE NINE STRAIN POLES AND ADJUST ATTACHMENT POINTS AS NECESSARY TO PROVIDE THE MINIMUM 17' CLEARANCE AT THE ROADWAY.

FILE NAME: U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADDIPS&ESheets\BL1598033_PS_TSG.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 7
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PLOTTED BY: purgabut	DESIGNED BY: R. FRANKLIN	JOB NUMBER		LOCATION NO.				STAGE 1 - TEMPORARY SIGNALIZATION & ILLUMINATION DETAILS AND NOTES		SHEET
ENTERED BY: C.D. CLARK	CHECKED BY: E. SCHOTT	CONTRACT NO.								OF
PROJ. ENGR.: S. SHAKLAWUN	REGIONAL ADM.: L. ENG	REVISION	DATE	BY		P.E. STAMP BOX	DATE			SHEETS

EQUIPMENT LOCATION TABLE - STAGE 1

LOCATION 1: SB ON-OFF RAMPS / 116TH STREET

SPAN 1-3	EQUIPMENT	DISTANCE FROM POLE 1
	EVP DET B	28'
	VEH SIG 41	36'
	CAMERA 4	42'
	VEH SIG 42	52'
	EVP DET C	75'
	VEH SIG 62	80'
	CAMERA 6	87'
	VEH SIG 11/61	90'
	SIGN T-1	95'
	EVP DET A	100'
	VEH SIG 21	105'
	CAMERA 2	110'
	VEH SIG 22	115'

LOCATION 2: NB ON-OFF RAMPS / 116TH STREET

SPAN 5-6	EQUIPMENT	DISTANCE FROM POLE 5
	VEH SIG 82	8'
	CAMERA 8	14'
	VEH SIG 81	20'
SPAN 6-7	EQUIPMENT	DISTANCE FROM POLE 7
	VEH SIG 61	46'
	CAMERA 6	50'
	VEH SIG 62	55'
	EVP DET C	58'
SPAN 8-9	EQUIPMENT	DISTANCE FROM POLE 8
	EVP DET A	46'
	VEH SIG 22	49'
	CAMERA 2	56'
	VEH SIG 51/21	58'
	SIGN T-1	62'
SPAN 5-9	EQUIPMENT	DISTANCE FROM POLE 5
	EVP DET D	35'

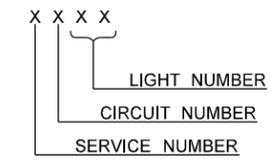
TEMPORARY LIGHT POLE LOCATION TABLE NOTES

- (1) INSTALL ON TEMPORARY STRAIN POLE 1.
- (2) INSTALL ON TEMPORARY STRAIN POLE 2.
- (3) INSTALL ON TEMPORARY STRAIN POLE 3.
- (4) CENTER ON ISLAND.
- (5) INSTALL ON TEMPORARY STRAIN POLE 5.
- (6) INSTALL ON TEMPORARY STRAIN POLE 6.
- (7) INSTALL ON TEMPORARY STRAIN POLE 7.
- (8) INSTALL ON TEMPORARY STRAIN POLE 9.
- (9) INSTALL MINIMUM 3.5' BACK OF GUARD RAIL.
- (10) INSTALL AT OUTER EDGE OF NEW PAVING, MINIMUM 16' FROM TRAVELED LANE.

TEMPORARY LIGHT POLE LOCATION TABLE

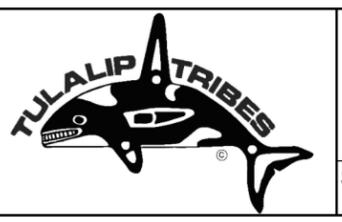
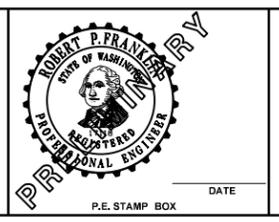
POLE/LUMINAIRE NO.	STATION	OFFSET
1A01	LM 234+25	(10) LT
1A02	LM 232+25	(10) LT
1A03	LM 230+25	(10) LT
1A04	LM 228+30	(10) LT
1A05	LM 226+65	(10) LT
1A06	LM 225+15	(10) LT
1A07	M 118+80	95' LT
1A08	M 117+88	95' LT
1A09	(2)	(2)
1A10	(1)	(1)
1A11	M 114+75	64' LT
2A00	LM 237+60	(10) RT
2A01	LM 235+60	(10) RT
2A02	LM 233+60	(10) RT
2A03	LM 231+60	(10) RT
2A04	LM 229+60	(10) RT
2A05	LM 227+65	(10) RT
2A06	LM 225+80	(10) RT
2A07	LM 224+40	(10) RT
2A08	(5)	(5)
2A09	(6)	(6)
2A10	M 121+33	100' LT
2A12	M 124+92	75' LT
2A13	M 126+15	46' LT
2A14	M 126+07	60' RT
1B00	LM 208+25	(10) LT
1B01	LM 210+25	(10) LT
1B02	LM 212+25	(10) LT
1B03	LM 214+35	(10) LT
1B04	LM 216+30	(10) LT
1B05	LM 218+20	(10) LT
1B06	LM 220+00	(10) LT
1B07	LM 118+30	(9) RT
1B08	(3)	(3)
1B09	M 115+75	(4)
2B01	LM 210+00	(10) RT
2B02	LM 211+80	(10) RT
2B03	LM 213+80	(10) RT
2B04	LM 215+85	(10) RT
2B05	LM 217+85	(10) RT
2B06	LM 219+55	(10) RT
2B07	(7)	(7)
2B08	M 121+80	(9)
2B09	(8)	(8)

LIGHT POLE IDENTIFICATION



FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADDIPS&ESheets\BL1598033_PS_TSG.dgn			
TIME	12:37:42 PM			
DATE	6/14/2012			
PLOTTED BY	purgabut			
DESIGNED BY	R. FRANKLIN			
ENTERED BY	C.D. CLARK			
CHECKED BY	E. SCHOTT			
PROJ. ENGR.	S. SHAKLAWUN			
REGIONAL ADM.	L. ENG			
REVISION		DATE	BY	

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



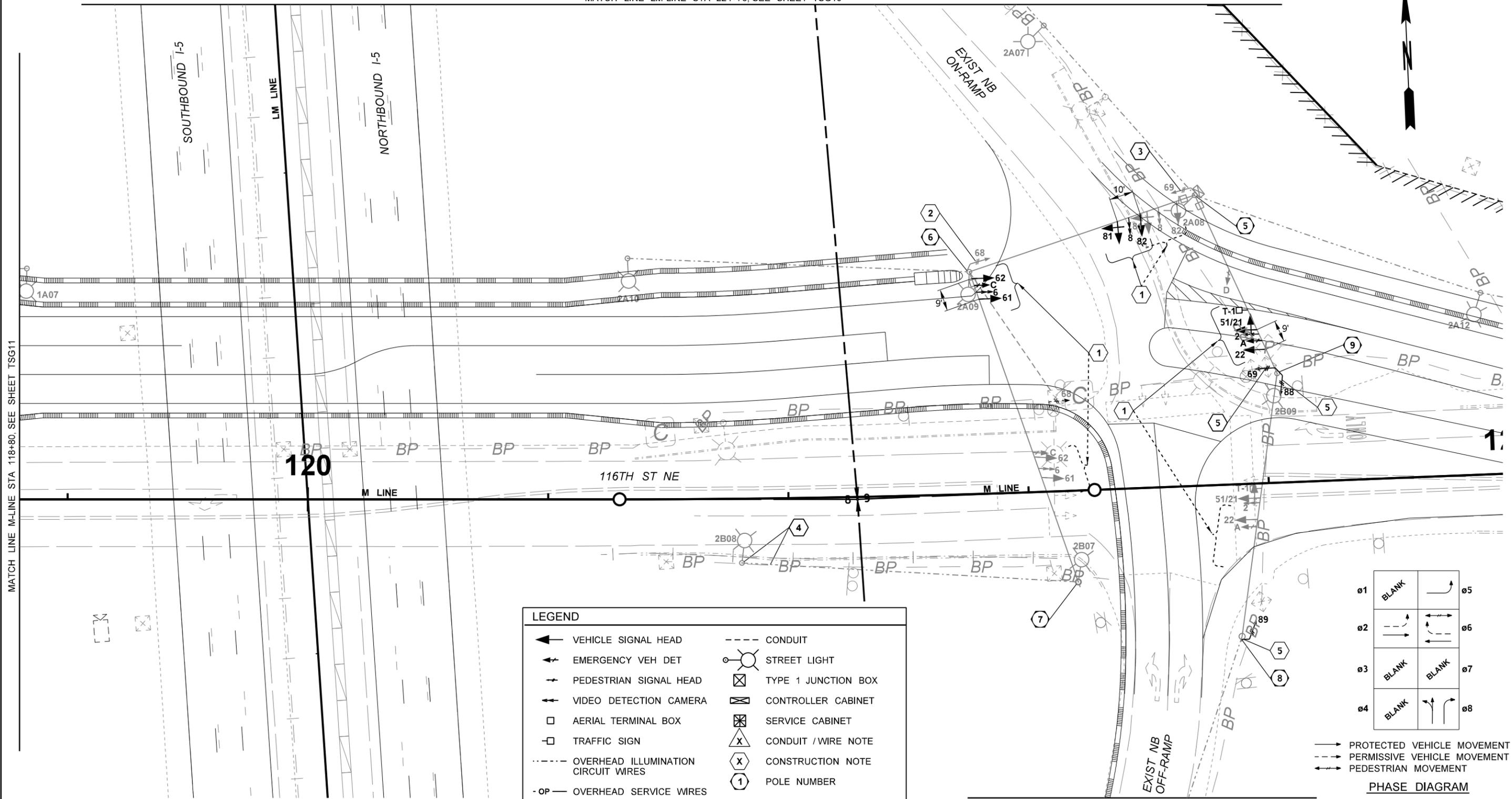
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

**STAGE 1 - EQUIPMENT LOCATION TABLE
& TEMP. LIGHT POLE LOCATIONS**

Plot 9
PLAN REF NO
TSG9
SHEET
OF
SHEETS

SEC 8, SEC 9, T. 30N. R. 5E. W.M.

MATCH LINE LM-LINE STA 224+70, SEE SHEET TSG10

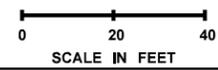


LEGEND	
←	VEHICLE SIGNAL HEAD
↔	EMERGENCY VEH DET
↕	PEDESTRIAN SIGNAL HEAD
⊞	VIDEO DETECTION CAMERA
□	AERIAL TERMINAL BOX
⊞	TRAFFIC SIGN
---	OVERHEAD ILLUMINATION CIRCUIT WIRES
-OP-	OVERHEAD SERVICE WIRES
---	CONDUIT
⊙	STREET LIGHT
⊞	TYPE 1 JUNCTION BOX
⊞	CONTROLLER CABINET
⊞	SERVICE CABINET
⊞	CONDUIT / WIRE NOTE
⊞	CONSTRUCTION NOTE
⊞	POLE NUMBER

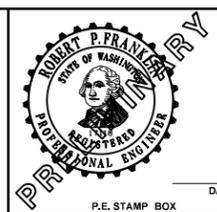
ø1	BLANK	ø5	↖
ø2	↖	ø6	↔
ø3	BLANK	ø7	↖
ø4	BLANK	ø8	↖

→ PROTECTED VEHICLE MOVEMENT
 - - - PERMISSIVE VEHICLE MOVEMENT
 ↕ PEDESTRIAN MOVEMENT
PHASE DIAGRAM

GENERAL NOTE:
 1. FOR STAGE 2 TEMPORARY SIGNAL/ILLUMINATION CONSTRUCTION NOTES, AND EQUIPMENT LOCATION SEE SHEET TSG13.



FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svc\CADD\IPS&ESheets\BL1598033_PS_TSG.dgn			REGION NO.	STATE	FED.AID PROJ.NO.	Plot 12
TIME	12:38:30 PM			10	WASH		PLAN REF NO
DATE	6/14/2012						TSG12
PLOTTED BY	purgabut			JOB NUMBER			SHEET
DESIGNED BY	R. FRANKLIN			CONTRACT NO.		LOCATION NO.	OF
ENTERED BY	C.D. CLARK						SHEETS
CHECKED BY	E. SCHOTT						
PROJ. ENGR.	S. SHAKLAWUN						
REGIONAL ADM.	L. ENG			REVISION	DATE	BY	



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
STAGE 2 - TEMPORARY SIGNALIZATION
AND ILLUMINATION PLAN

SIGN REMOVAL SPECIFICATIONS

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	STA. LOC. (or MP)	SIGN SIZE		POST MATERIAL	POST SIZE	# OF POSTS	REMARKS
				X	Y				
R-15	D1-901	I-5 NORTH VANCOUVER, B.C., LEFT ARROW	SE 122+24 LT	120"	48"	WOOD	4"x6"	2	
R-17	M8-101	SOUTH I-5, ARROW RIGHT	M 116+70 RT	94"	48"	WOOD	4x6	2	
R-19	R6-1R	"NO LOITERING"	M 123+28 RT	18"	12"				Sign on Sign 16 post
R-21	R6-1L	"ONE WAY"	M 123+87 RT	36"	12"				Sign on Sign 20 post
R-22	R6-1R	"ONE WAY"	M 123+87 RT	36"	12"				Sign on Sign 20 post
R-23	R9-3A	NO PED. CROSSING SYMBOL	M 124+13 RT	30"	30"	WOOD	4"x4"	1	
R-24	R9-3BR	USE CROSSWALK	M 124+13 RT	18"	12"				On same post as Sign 23
R-31	D1-801 (MOD)	I-5 SOUTH SEATTLE, STRAIGHT ARROW	M125+40 LT	120"	96"	STEEL	4"x6"	2	I-beam
R-34		I-5 NORTH VANCOUVER, B.C., RIGHT ARROW "BUS STOP"	M 123+70 LT						Community Transit sign
R-35	R9-4A	No Hitchhicking Symbol	M 123+99 LT	30"	30"	WOOD	4"x4"	1	
R-36	R9-3A (MOD)	NO PED. CROSSING SYMBOL	M 123+05 LT	18"	24"	WOOD	4"x4"	1	
R-37	R9-3BR (MOD)	"USE CROSSWALK"	M 123+05 LT	18"	12"				Same post as Sign 36
R-38	D4-301 (MOD)	"PARK AND RIDE"	M 122+49 LT	24"	30"	WOOD	4"x4"	1	
R-64	R9-4A	No Hitchhicking Symbol	M 116+53 RT	18"	18"	WOOD	4"x4"	1	
R-65	R9-3A	NO PED. CROSSING SYMBOL	M 115+87 RT	30"	30"	WOOD	4x6	1	
R-66	R9-3BL	"USE CROSSWALK"	M 115+87 RT	18"	12"				On same post as Sign 65
R-68	D1-801 (MOD)	I-5 SOUTH SEATTLE, RIGHT ARROW	M 113+89 RT	120"	96"	WOOD	6"x10"	2	
R-69	R3-7R	I-5 NORTH VANCOUVER, B.C., STRAIGHT ARROW "RIGHT LANE MUST TURN RIGHT"	M 113+35 RT	30"	30"	WOOD	6x6	1	
R-70	R9-3A	NO PED. CROSSING SYMBOL	M 113+35 RT	18"	18"				On same post as Sign 69
R-71	W1-6L	LEFT ARROW	M 113+35 RT	36"	12"				On same post as Sign 69
R-72	R9-3BL	"USE CROSSWALK"	M 113+35 RT	18"	12"				On same post as Sign 69
R-73	R9-3A	NO PED. CROSSING SYMBOL	M 113+35 RT	18"	18"				On same post as Sign 69
R-74	W1-6L	LEFT ARROW	M 113+35 RT	36"	12"				On same post as Sign 69
R-86	D4-301 (MOD)	"PARK AND RIDE"	M 115+93 LT	24"	30"	WOOD	4"x4"	1	
R-87	R6-1L	"ONE WAY"	M 116+20 LT	36"	12"	STEEL	5" DIA.	1	

CONSTRUCTION NOTES:

POST LENGTHS SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD PRIOR TO FABRICATION.
 FOR STRUCTURE AND MOUNTING DETAILS SEE STANDARD PLAN SHEET SERIES "G".
 FOR CODE REFERENCES AND STANDARD DETAILS SEE WASHINGTON STATE SIGN FABRICATION MANUAL.

"ROOM FOR ADDITIONAL NOTES" ...

DESIGNED BY	C.D.CLARK				REGION NO.	STATE	FED. AID PROJ. NO.		I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	REM 1
ENTERED BY	C.D. CLARK				10	WASH			SHEET	
CHECKED BY	O. KIKUTA				JOB NUMBER				OF	
PROJ. ENGR.	S. SHAKLAWUN				CONTRACT NO.				SHEETS	
REGION ADM.	L. ENG	REVISION	DATE	BY				SIGN REMOVAL SPECIFICATIONS		

CONSTRUCTION NOTES:

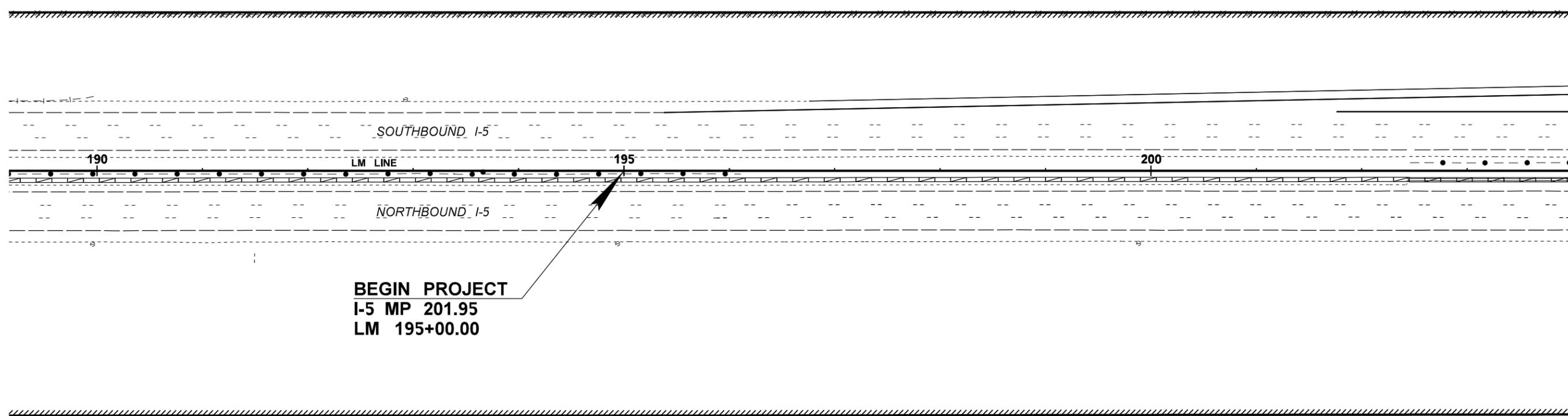
- 1 MAINTAIN AND PROTECT EXISTING SIGN. NOTIFY ENGINEER IF CONSTRUCTION RESULTS IN CONFLICT.
- 3 MOUNT ON SIGN BRIDGE NO. XX-XX.
- 4 MOUNT TO ELBOW BRACKET ON RETAINING WALL.
- 5 MOUNT ON BRIDGE NO. 5/565 REPLACEMENT.

SEC 8 & SEC 17, T. 30N. R. 5E. W.M.



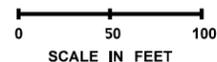
GENERAL NOTES:

- 1. RETAIN SIGN PANEL, REPLACE EXISTING WOOD POSTS WITH STEEL (IF APPLICABLE). SEE SIGN SPECIFICATIONS FOR TYPE, SIZE, AND LENGTH OF POST(S).
- 2. ALL MOTORISTS INFORMATION SIGNS SHALL BE RELOCATED AT THE EARLIEST OPPORTUNITY.

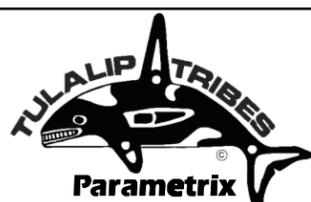
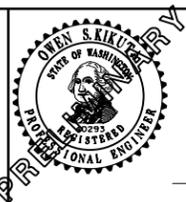


LEGEND

- (?) SIGN NO.
- R- SIGN REMOVAL NO.
- [?] NEW LOCATION
- [?] SIGN RELOCATION NO.
- - - EXISTING LOCATION
- bb EXISTING SIGN(S) AND POST(S)
- SIGN(S) & POST(S) OR RELOCATED SIGN(S) W/ NEW POST(S)
- ⊗ SIGN ON PROPOSED LIGHT STANDARD
- ⊢ OVERHEAD SIGN
- ⊢ EXISTING OVERHEAD SIGN
- ⊢ EXISTING STRUCTURE MOUNTED SIGN
- ⊢ STRUCTURE MOUNTED SIGN
- - - EXISTING CANTILEVER
- CANTILEVER
- (?) CONSTRUCTION NOTE (SEE SHEET SN1 FOR CONSTRUCTION NOTES)
- SIGN BRIDGE

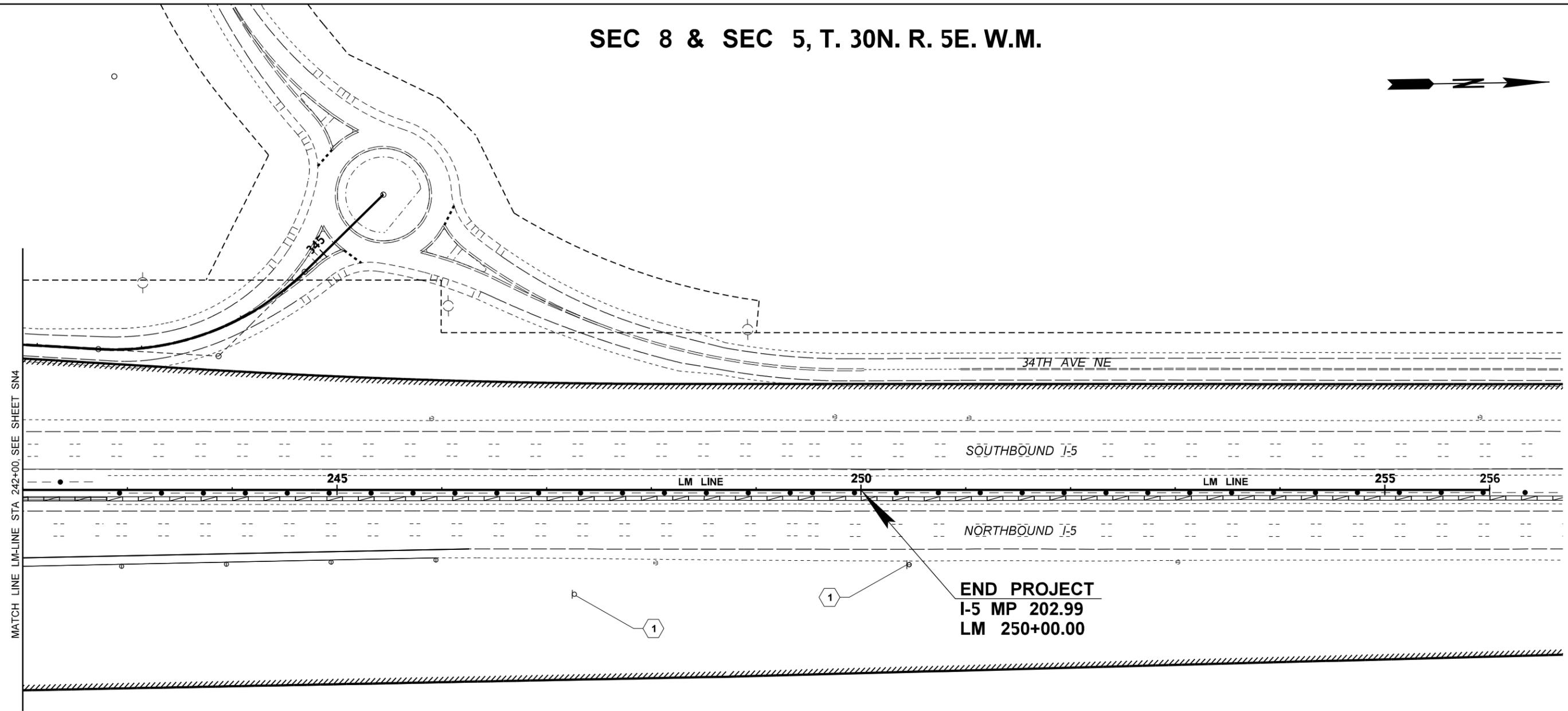


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TIME	12:41:52 PM			10	WASH			PLAN REF NO	
DATE	6/14/2012							SN1	
PLOTTED BY	purgabut			JOB NUMBER				SHEET	
DESIGNED BY	C.D. CLARK			CONTRACT NO.		LOCATION NO.		OF	
ENTERED BY	C.D. CLARK							SHEETS	
CHECKED BY	O. KIKUTA								
PROJ. ENGR.									
REGIONAL ADM.		REVISION	DATE	BY					



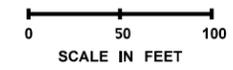
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
SIGNING PLAN

SEC 8 & SEC 5, T. 30N. R. 5E. W.M.

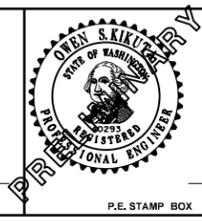


LEGEND

- ? SIGN NO.
- R- SIGN REMOVAL NO.
- ? NEW LOCATION
- ? SIGN RELOCATION NO.
- ? EXISTING LOCATION
- p EXISTING SIGN(S) AND POST(S)
- p SIGN(S) & POST(S) OR RELOCATED SIGN(S) W/ NEW POST(S)
- p SIGN ON PROPOSED LIGHT STANDARD
- | OVERHEAD SIGN
- | EXISTING OVERHEAD SIGN
- | EXISTING STRUCTURE MOUNTED SIGN
- | STRUCTURE MOUNTED SIGN
- | EXISTING CANTILEVER
- | CANTILEVER
- ? CONSTRUCTION NOTE (SEE SHEET SN1 FOR CONSTRUCTION NOTES)
- | SIGN BRIDGE



FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svc\CADD\IPS&ESheets\BL1598033_PS_SN.dgn				FED.AID PROJ.NO.	
TIME 12:43:18 PM	REGION NO. 10	STATE WASH			
DATE 6/14/2012	JOB NUMBER				
PLOTTED BY purgabut	CONTRACT NO.		LOCATION NO.		
DESIGNED BY C.D. CLARK	REVISION		DATE BY		
ENTERED BY C.D. CLARK					
CHECKED BY O. KIKUTA					
PROJ. ENGR.					
REGIONAL ADM.					

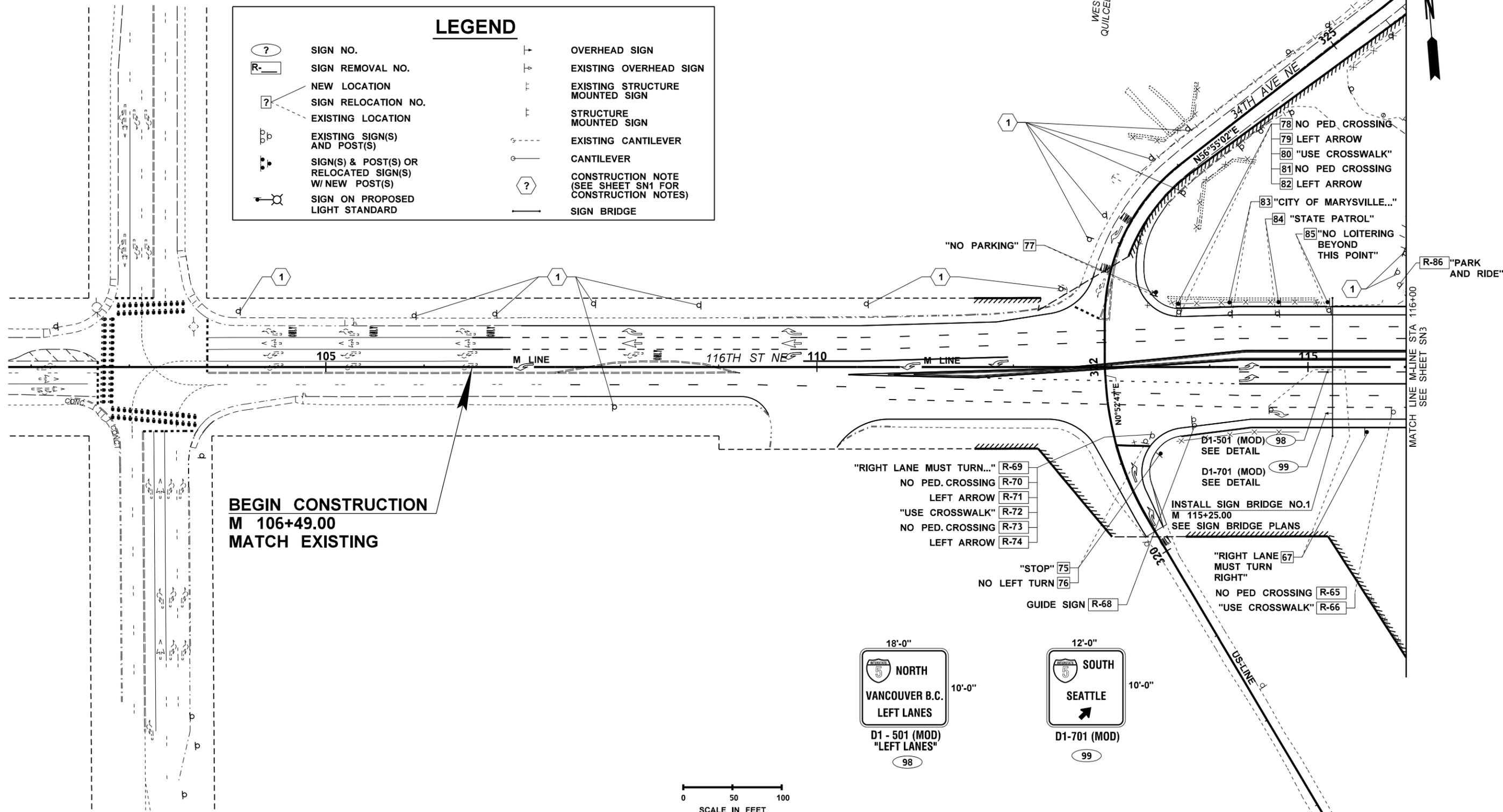


I-5		Plot 5
116TH ST NE		PLAN REF NO
INTERCHANGE IMPROVEMENTS		SN5
SIGNING PLAN		SHEET
		OF
		SHEETS

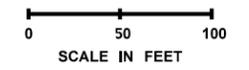
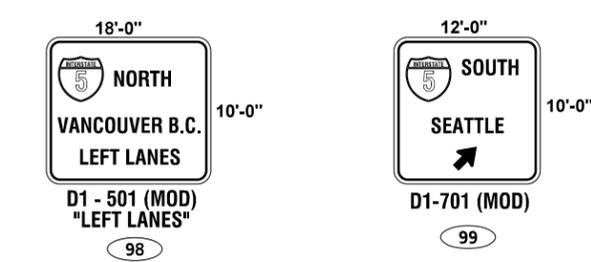
SEC 8, T. 30N. R. 5E. W.M.

LEGEND

	SIGN NO.		OVERHEAD SIGN
	SIGN REMOVAL NO.		EXISTING OVERHEAD SIGN
	NEW LOCATION		EXISTING STRUCTURE MOUNTED SIGN
	SIGN RELOCATION NO.		STRUCTURE MOUNTED SIGN
	EXISTING LOCATION		EXISTING CANTILEVER
	EXISTING SIGN(S) AND POST(S)		CANTILEVER
	SIGN(S) & POST(S) OR RELOCATED SIGN(S) W/NEW POST(S)		CONSTRUCTION NOTE (SEE SHEET SN1 FOR CONSTRUCTION NOTES)
	SIGN ON PROPOSED LIGHT STANDARD		SIGN BRIDGE

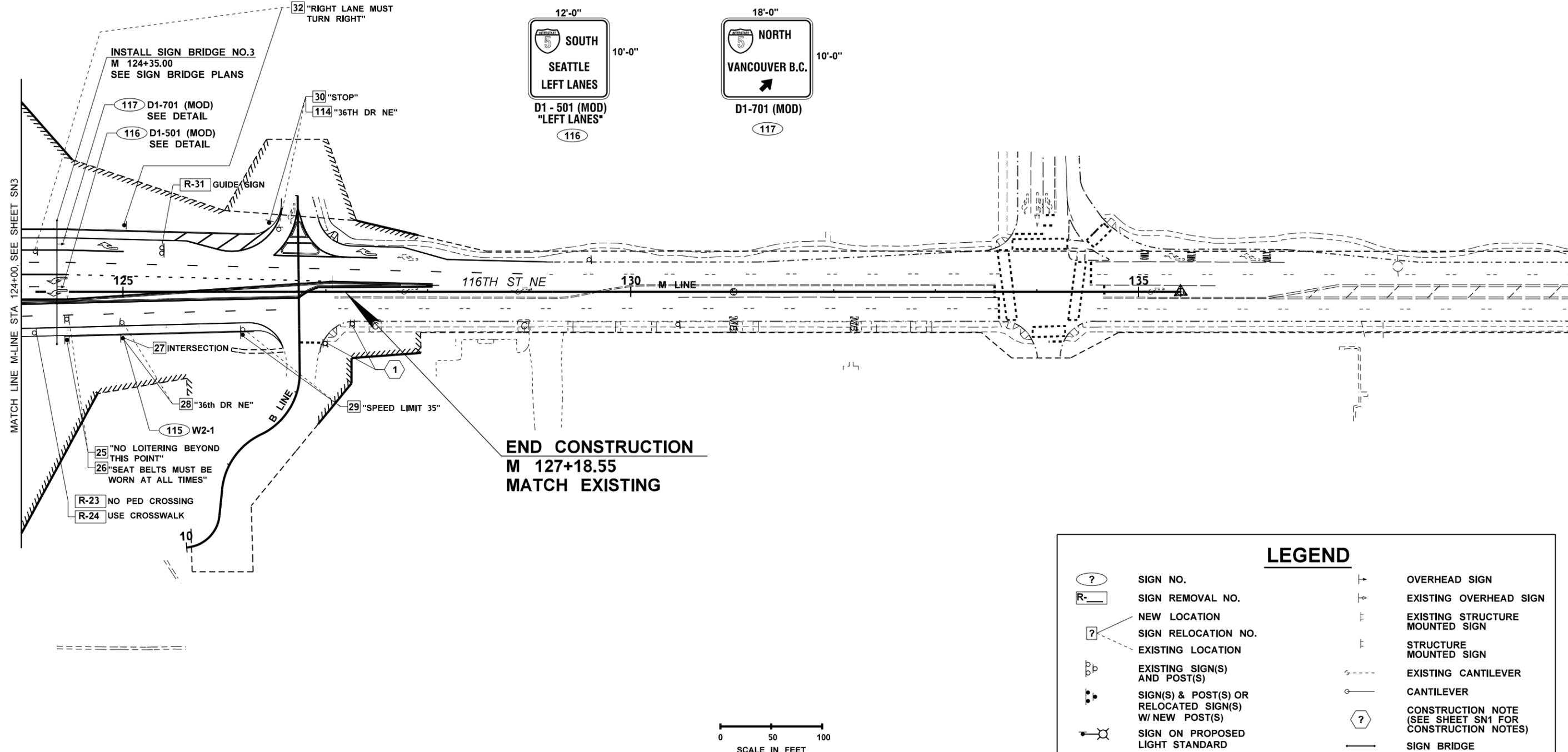


BEGIN CONSTRUCTION
M 106+49.00
MATCH EXISTING

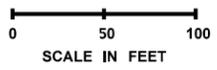


FILE NAME U:\Bell\Projects\Clients\1598-Tulalp Tr\bes1554-1598-033-116thPh3\99Svcs\CADD\PS&ESheets\BL1598033_PS_SN.dgn				FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS SIGNING PLAN	Plot 6
TIME 12:43:29 PM	DATE 6/14/2012	PLOTTED BY purgabut	DESIGNED BY C.D. CLARK	ENTERED BY C.D. CLARK	CHECKED BY O. KIKUTA				PROJ. ENGR.
REVISION	DATE	BY	CONTRACT NO.	LOCATION NO.	DATE	DATE		SHEET OF SHEETS	

SEC 9, T. 30N. R. 5E. W.M.

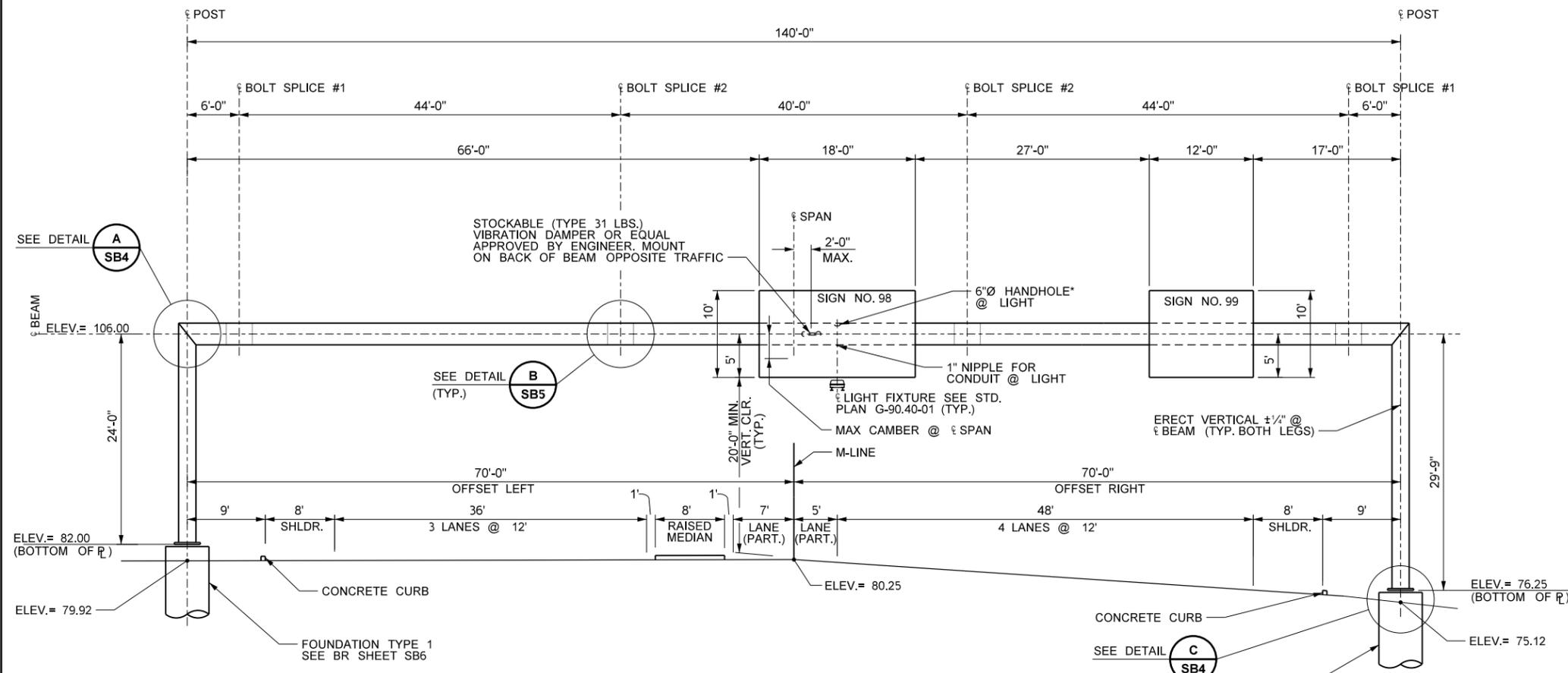


END CONSTRUCTION
M 127+18.55
MATCH EXISTING



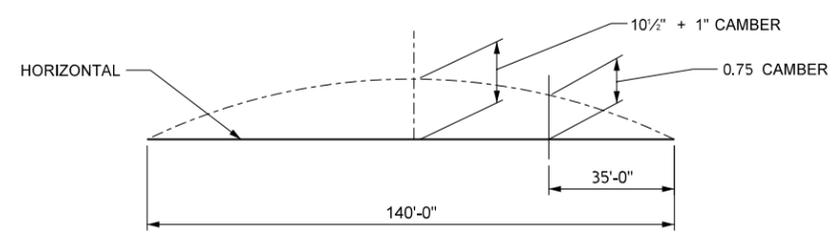
LEGEND			
(?)	SIGN NO.	—+—	OVERHEAD SIGN
R-___	SIGN REMOVAL NO.	—+—	EXISTING OVERHEAD SIGN
(?)	NEW LOCATION	—+—	EXISTING STRUCTURE MOUNTED SIGN
(?)	SIGN RELOCATION NO.	—+—	STRUCTURE MOUNTED SIGN
(?)	EXISTING LOCATION	—+—	EXISTING CANTILEVER
⊕	EXISTING SIGN(S) AND POST(S)	—+—	CANTILEVER
⊕	SIGN(S) & POST(S) OR RELOCATED SIGN(S) W/ NEW POST(S)	—+—	CONSTRUCTION NOTE (SEE SHEET SN1 FOR CONSTRUCTION NOTES)
⊕	SIGN ON PROPOSED LIGHT STANDARD	—+—	SIGN BRIDGE

FILE NAME U:\BellProjects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3199Svcs\CADDIPS&ESheets\BL1598033_PS_SN.dgn				FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS SIGNING PLAN	Plot 7
TIME 12:43:45 PM	DATE 6/14/2012	REGION NO. 10	STATE WASH	CONTRACT NO.	LOCATION NO.				PLAN REF NO. SN7
PLOTTED BY purgabut	DESIGNED BY C.D. CLARK	ENTERED BY C.D. CLARK	CHECKED BY O. KIKUTA	PROJ. ENGR.	REGIONAL ADM.	REVISION	DATE	BY	SHEET OF SHEETS



ELEVATION

SIGN BRIDGE NO. 1 - STA M 115+25.00
 THE MAXIMUM SIGN AREA ON THIS
 STRUCTURE SHALL BE 300 SQ. FT.



BEAM CAMBER DIAGRAM

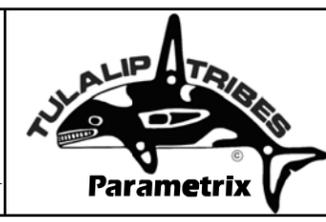
GENERAL NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2012 AND AMENDMENTS.
2. THE SIGN STRUCTURES DESIGN AND ANALYSIS HAS BEEN DONE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS - FOURTH EDITION - DATED 2009 AND INTERIMS, USING BASIC WIND SPEED OF 90 MPH AND 50 YEARS OF DESIGN LIFE. FATIGUE DESIGN OF THE STRUCTURE CONFORMS TO FATIGUE CATEGORY 1 OF THE SPECIFIED AASHTO STANDARD SPECIFICATIONS.
3. ALL BUTT JOINT WELDS SHALL BE FULL PENETRATION GROOVE WELDS WITH BACK-UP PLATES OF 1/4" MIN. THICKNESS.
4. THE BACK-UP PLATES FOR ALL FULL PENETRATION WELDS SHALL BE WELDED CONTINUOUSLY TO THE JOINED PIECES. THIS CAN BE DONE BY EITHER A CONTINUOUS FILLET WELD ON THE BACK SIDE OF THE PIECE, OR BY A CONTINUOUS WELD IN THE ROOT OF THE FULL PENETRATION WELD, UNLESS OTHERWISE NOTED.
5. ALL BOLTS, RODS AND RELATED HARDWARE SHALL BE GALVANIZED AFTER FABRICATION PER AASHTO M 232.
6. STEEL SURFACES SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M 111. ALL EXTERIOR STEEL SURFACES SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
7. SIGN PANELS AS SHOWN IN THE CONTRACT PLANS SHALL BE INSTALLED WITH THE SIGN STRUCTURE OR IMMEDIATELY AFTER THE SIGN STRUCTURE IS ERECTED.
8. FABRICATE BEAM TO PROVIDE SMOOTH PARABOLIC CAMBER CURVE. SEE CAMBER DIAGRAM. DO NOT SHIM AT BOLTED SPLICES.
9. FABRICATE POST STRAIGHT.
10. MATERIALS SPECIFICATIONS:

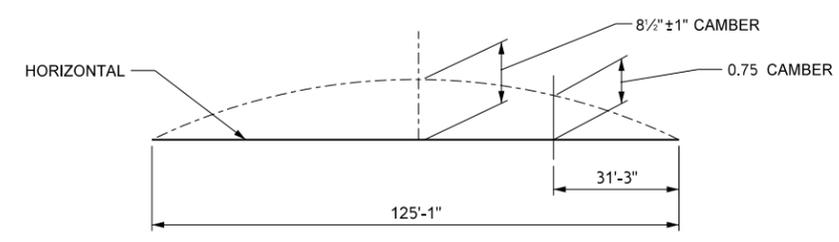
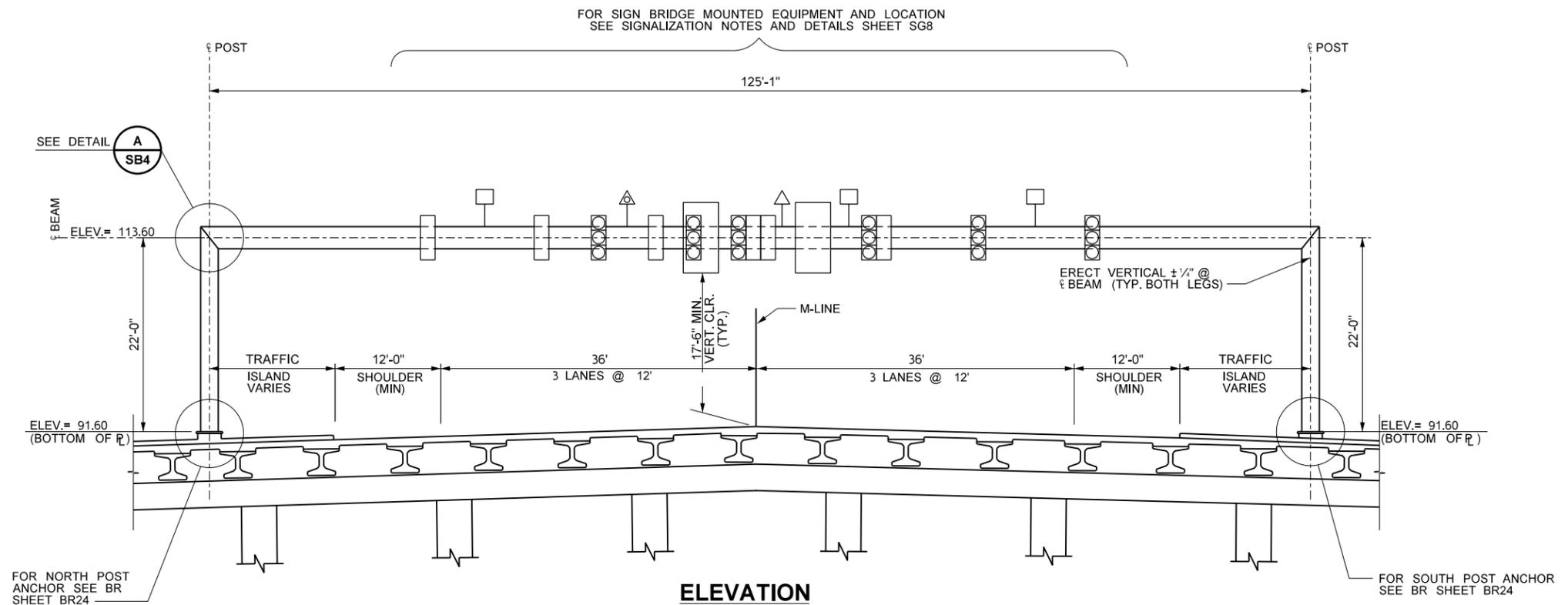
ALL STRUCTURAL STEEL EXCEPT AS OTHERWISE NOTED	ASTM A 572 GR. 50 OR ASTM A 588
ANCHOR RODS	ASTM F 1554 GR. 105
HANDHOLE COVER SCREWS	ASTM F 593 GR. 1
SPLICE BOLTS	AASHTO M 164
SIGN BRACKET RODS	ASTM A 307
MOUNTING BEAM BOLTS	AASHTO M 164
COVER PLATES	ASTM A 36
11. BOTTOM OF BASE PLATE ELEVATIONS AND POST HEIGHTS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD MEASURE ANCHOR ROD LOCATIONS, ELEVATIONS, CLEARANCES AND ALL STEEL STRUCTURE DIMENSIONS, AND SUBMIT TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
12. POSTS, BASE PLATES, BEAMS AND SPLICE PLATES ARE MAIN LOAD CARRYING TENSILE MEMBERS OR TENSION COMPONENTS OF FLEXURAL MEMBERS AND SHALL MEET THE LONGITUDINAL CHARPY V-NOTCH TEST AS DESCRIBED IN SECTION 6-03.2 FOR AASHTO M 270 MATERIAL. NON-DESTRUCTIVE TEST ACCEPTANCE CRITERIA TO CONFORM TO TENSILE MEMBERS WITH CYCLIC LOAD.
13. SEE OTHER PLANS FOR CONDUIT PENETRATIONS AND HAND HOLES. REFER TO ELECTRICAL PLANS FOR INTERNAL ROUTING OF CONDUCTORS. CONDUIT CONDUCTOR SHALL NOT BE ATTACHED TO THE OUTSIDE OF THE SIGN STRUCTURE. ISOLATION SWITCH SHALL BE LOCATED NEAR THE SHOULDER OF ROADWAY ON THE OPPOSITE SIDE OF THE BEAM AS THE SIGNS. SEE NEMA 3R TERMINAL CABINET DETAIL ON SHEET 10.1-A2-2.
14. THE MAXIMUM SIGN AREA ON THE STRUCTURE SHALL BE AS NOTED.
15. FOR SIGN AND LIGHT ATTACHMENT BRACKET DETAILS FOR MONOTUBES SEE STANDARD PLAN G-90.20-00. PAINT ENTIRE ATTACHMENT BRACKET TO MATCH EXISTING STRUCTURE EXCEPT FOR MOUNTING BEAM. SIGN, LIGHT BEAM LENGTHS, SIZE AND SPACING SHALL BE DETERMINED FROM THE CONTRACT PLANS OR THE STANDARD PLANS. VARIABLE MESSAGE SIGNS SHALL HAVE MOUNTING BEAMS @ 3'-0" MAXIMUM.
16. ALL WELDING SHALL BE DONE TO MINIMIZE DISTORTION. PERMISSIBLE MONOTUBE DIMENSION VARIATIONS FOR OUTSIDE DIMENSIONS, WALL THICKNESS, LENGTH, STRAIGHTNESS, SQUARENESS OF SIDES AND TWIST SHALL BE IN ACCORDANCE WITH SECTION 11 OF ASTM A500 (*PARABOLICALLY-CAMBERED SIGN BRIDGE BEAMS EXCLUDED).

* HAND HOLE IS ONLY REQUIRED IF NIPPLE LOCATION IS GREATER THAN 1'-6" FROM ANOTHER HAND HOLE LOCATION.

FILE NAME: U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\1598033_BG_MTS_1.dgn				FED.AID PROJ.NO.		Plot 1	
TIME: 1:48:39 PM				REGION NO. 10		PLAN REF NO. SB1	
DATE: 10/26/2012				STATE: WASH		SHEET	
PLOTTED BY: valenalv				JOB NUMBER		OF	
DESIGNED BY: J. MERTH				CONTRACT NO.		SHEETS	
ENTERED BY: C.D. CLARK				LOCATION NO.			
CHECKED BY: R. MURRAY							
PROJ. ENGR.: R.A. LEWIS							
REGIONAL ADM.: L. ENG				REVISION			
				DATE			
				BY			

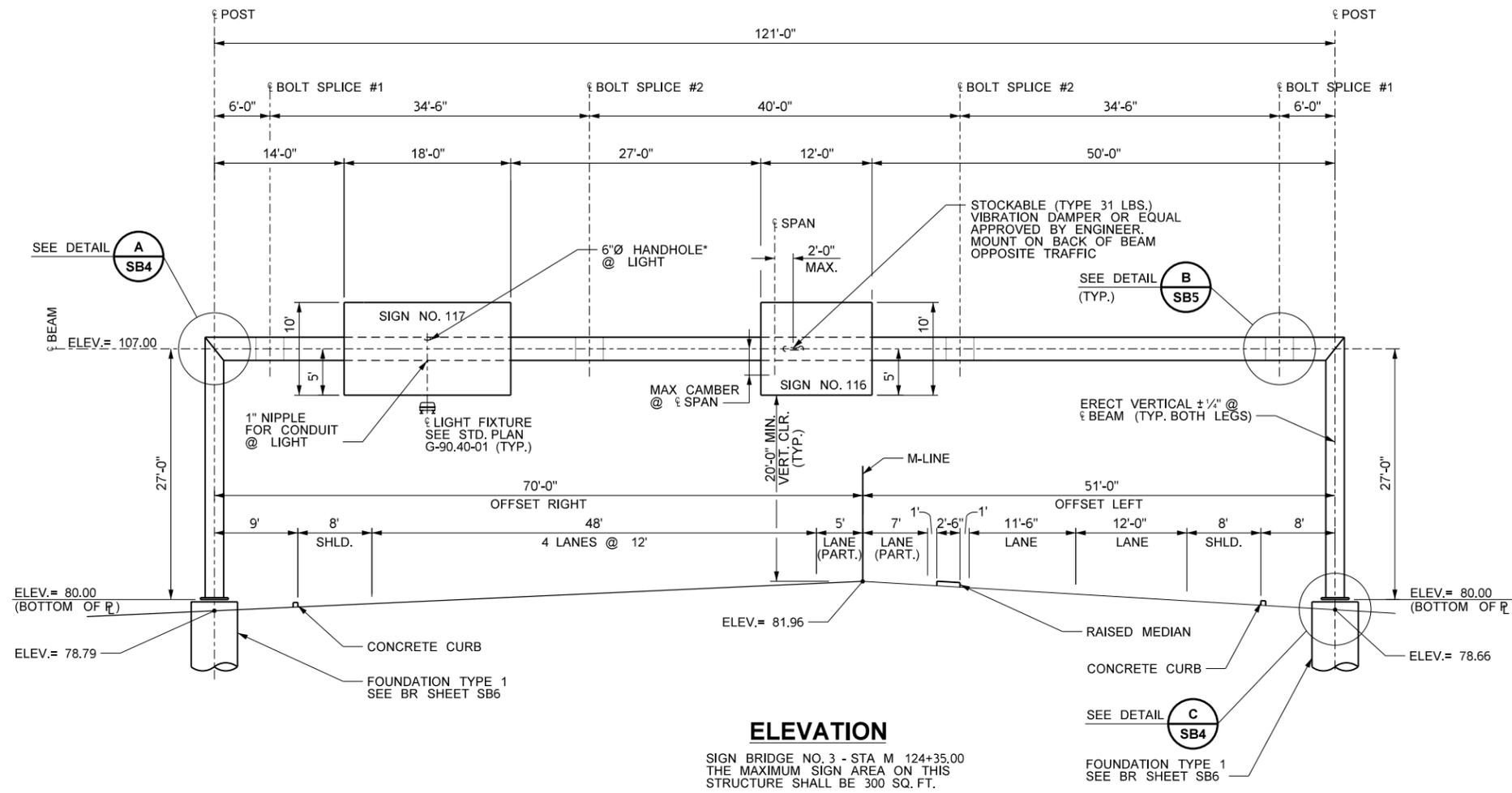


I-5
 116TH ST NE
 INTERCHANGE IMPROVEMENTS
 SIGN BRIDGE NO. 1
 LAYOUT



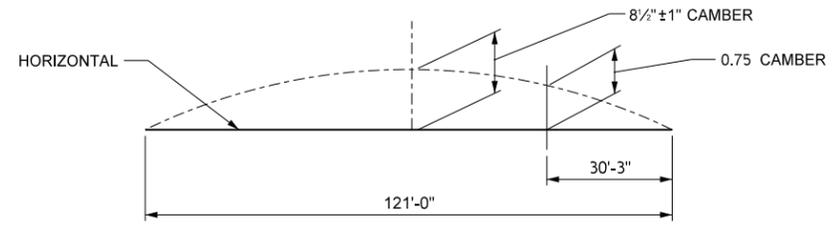
* HAND HOLE IS ONLY REQUIRED
IF NIPPLE LOCATION IS GREATER
THAN 1'-6" FROM ANOTHER HAND
HOLE LOCATION.

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\199Svcs\CADD\Bridges\100% Plans\BL 1598033_BG_MTS_1.dgn				FED.AID PROJ.NO.				I-5	Plot 2
TIME 1:48:59 PM	DATE 10/26/2012	PLOTTED BY valenalv	DESIGNED BY J. MERTH	ENTERED BY C.D. CLARK	CHECKED BY R. MURRAY			PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG
REVISION				DATE	BY	CONTRACT NO.	LOCATION NO.	INTERCHANGE IMPROVEMENTS	SHEET
								SIGN BRIDGE NO. 2	OF
								LAYOUT	SHEETS



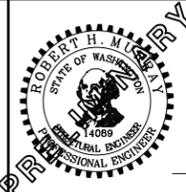
ELEVATION

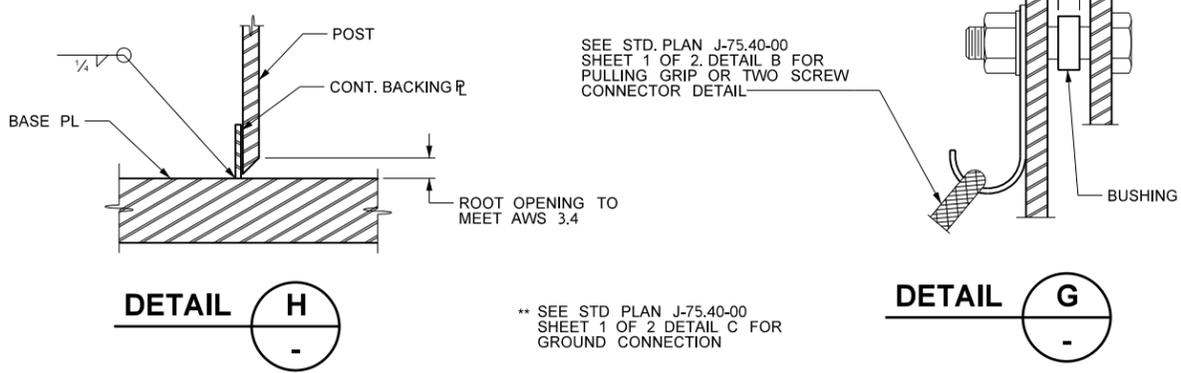
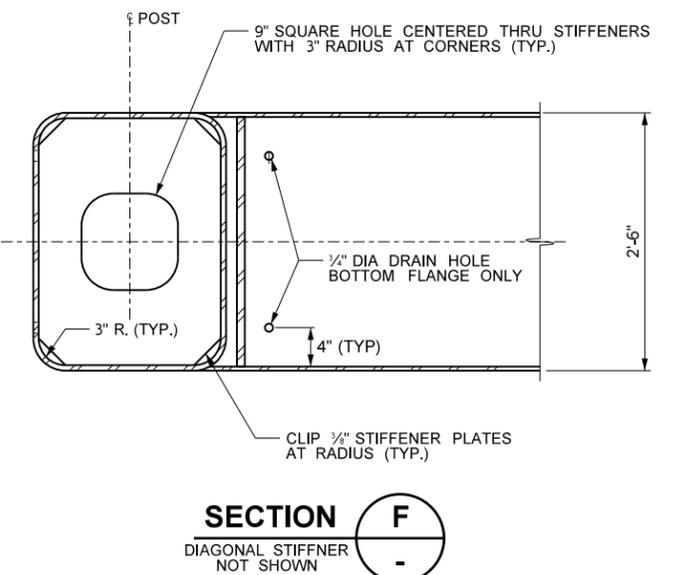
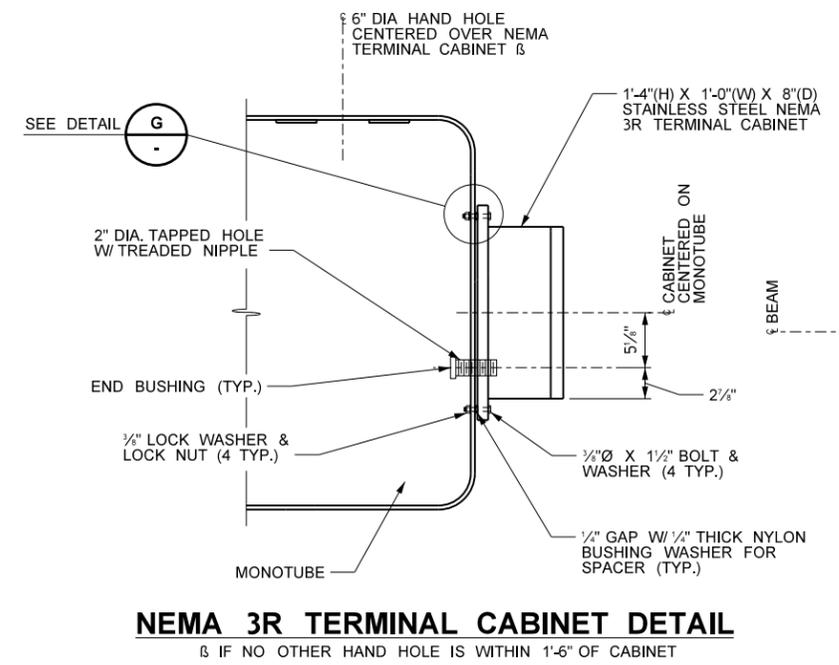
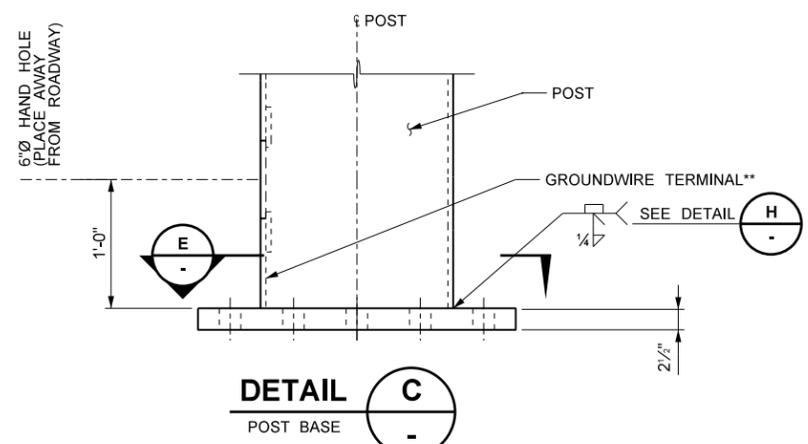
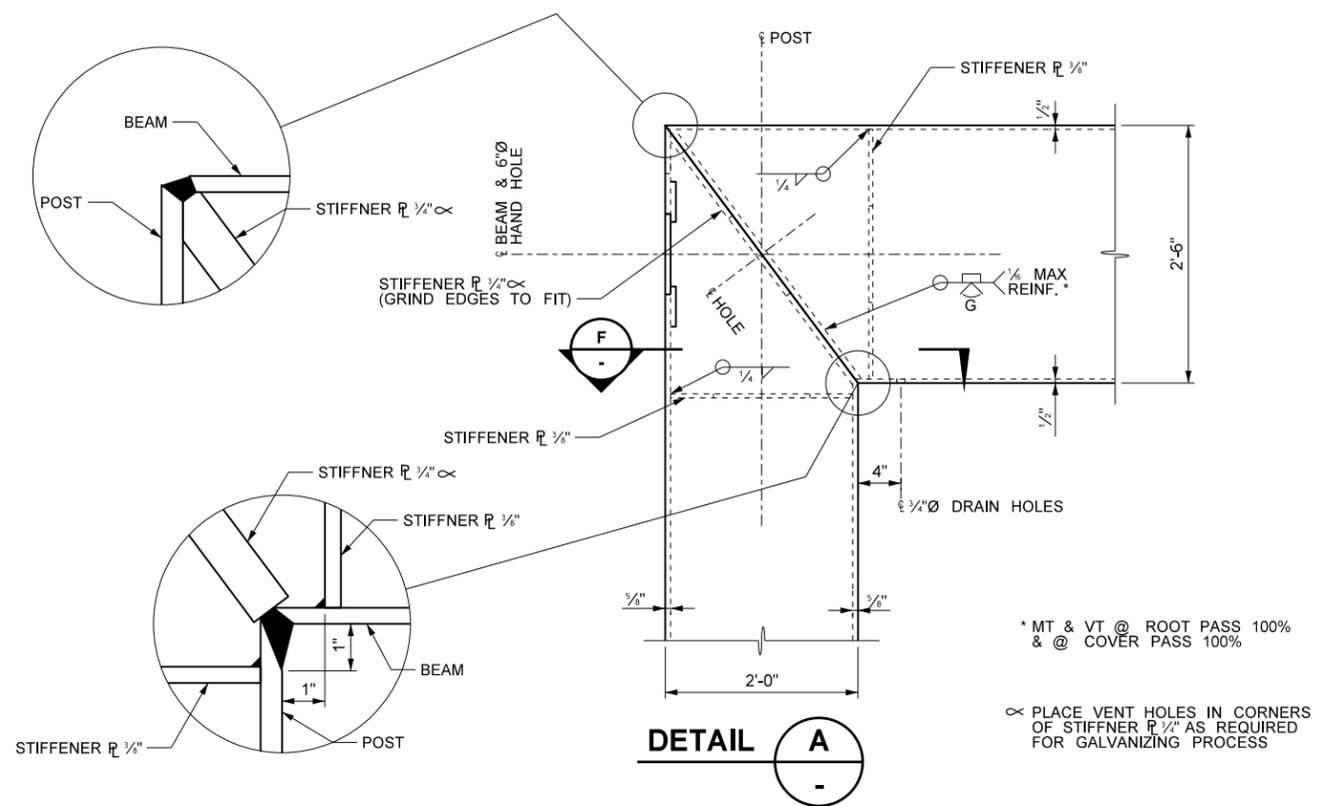
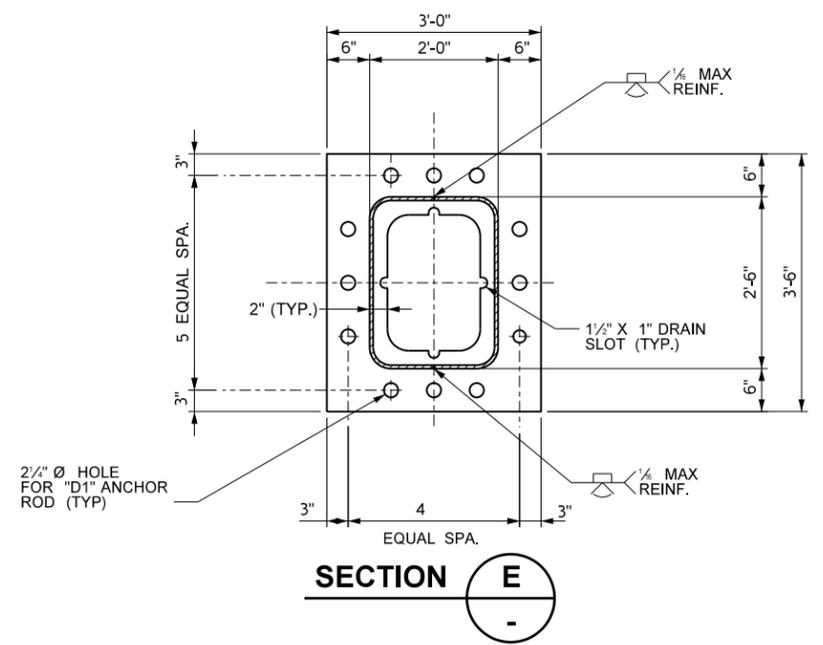
SIGN BRIDGE NO. 3 - STA. M. 124+35.00
 THE MAXIMUM SIGN AREA ON THIS
 STRUCTURE SHALL BE 300 SQ. FT.



BEAM CAMBER DIAGRAM

* HAND HOLE IS ONLY REQUIRED
 IF NIPPLE LOCATION IS GREATER
 THAN 1'-6" FROM ANOTHER HAND
 HOLE LOCATION.

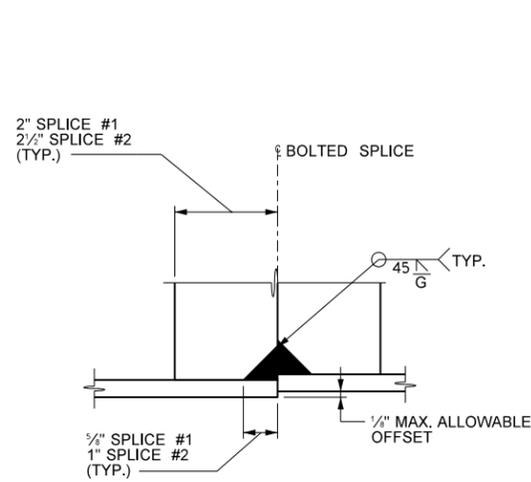
FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_MTS_1.dgn				FED.AID PROJ.NO.						I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 3	
TIME 1:49:28 PM	DATE 10/26/2012	PLOTTED BY valenalv	DESIGNED BY J. MERTH	ENTERED BY C.D. CLARK	CHECKED BY R. MURRAY	PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG	REVISION	DATE	BY	CONTRACT NO.	LOCATION NO.	PLAN REF NO SB3
SIGN BRIDGE NO. 3 LAYOUT												SHEET OF SHEETS	



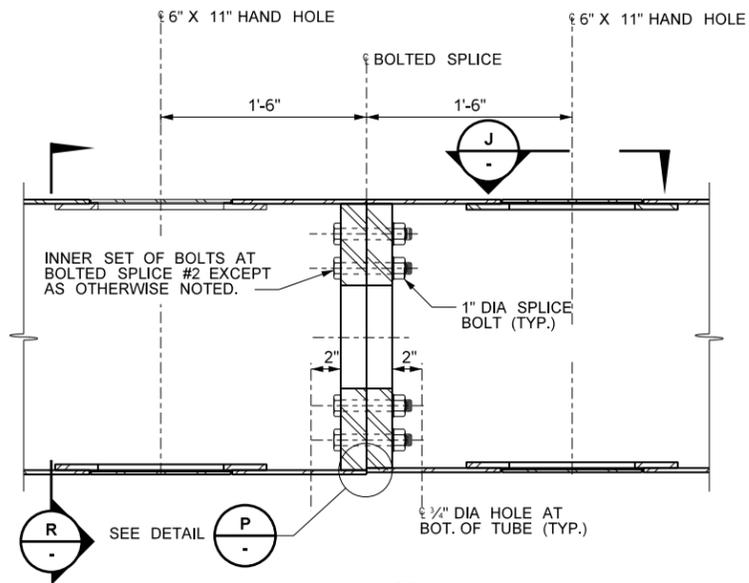
** SEE STD PLAN J-75.40-00 SHEET 1 OF 2 DETAIL C FOR GROUND CONNECTION

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svc\CAD\IBridge\100% Plans\BL 1598033_BG_MTS_1.dgn				FED.AID PROJ.NO.	
TIME	1:49:45 PM				REGION NO.	STATE
DATE	10/26/2012				10	WASH
PLOTTED BY	valenalv				JOB NUMBER	
DESIGNED BY	J. MERTH				CONTRACT NO.	
ENTERED BY	C.D. CLARK				LOCATION NO.	
CHECKED BY	R. MURRAY					
PROJ. ENGR.	R.A. LEWIS					
REGIONAL ADM.	L. ENG				REVISION	DATE BY

		<p>I-5 116TH ST NE INTERCHANGE IMPROVEMENTS</p> <p>SIGN BRIDGE STRUCTURAL DETAILS 1 OF 2</p>	<p>Plot 4 PLAN REF NO SB4 SHEET OF SHEETS</p>
--	--	--	--

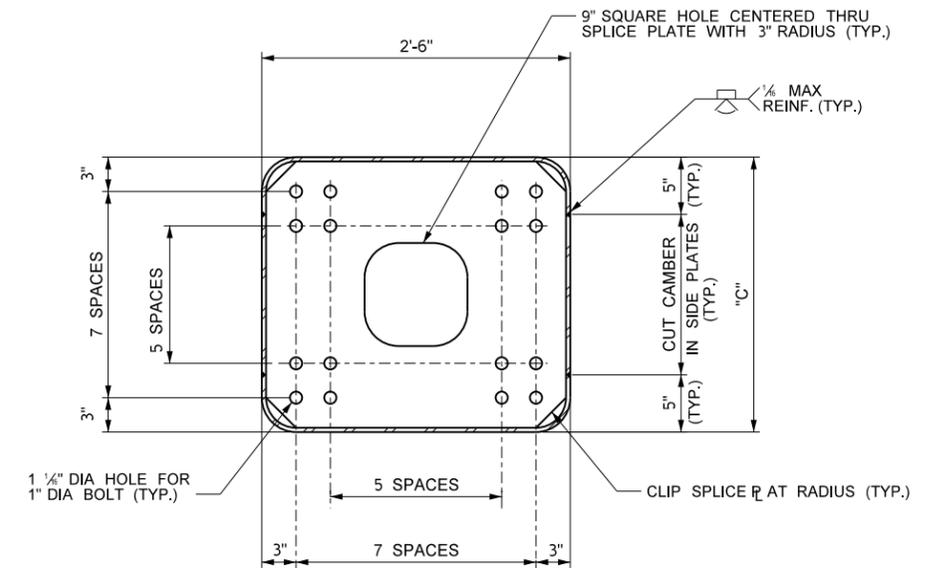


DETAIL P

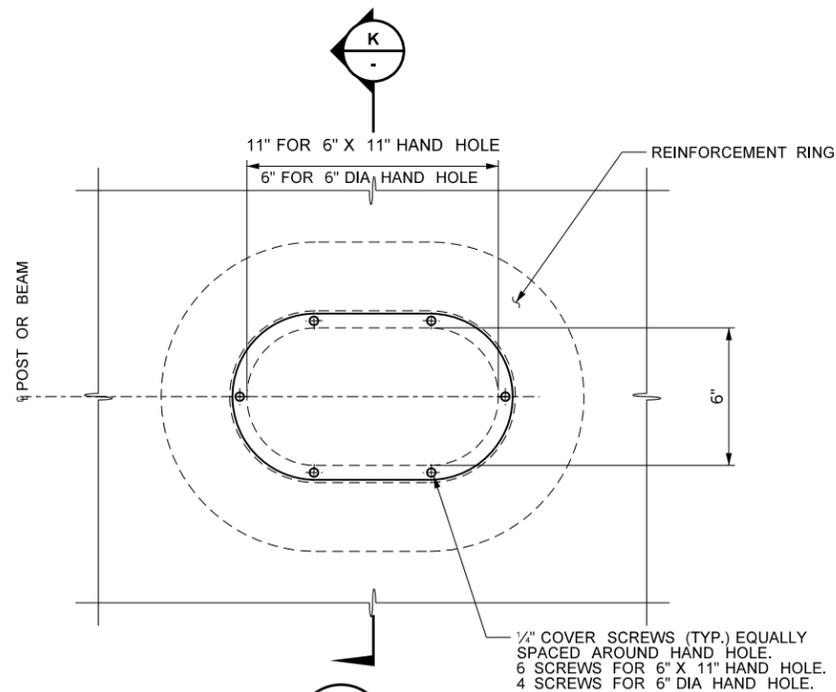


DETAIL B

SECTION THRU BEAM
BOLTED SPLICE #2 SHOWN.
BOLTED SPLICE #1 SIMILAR.

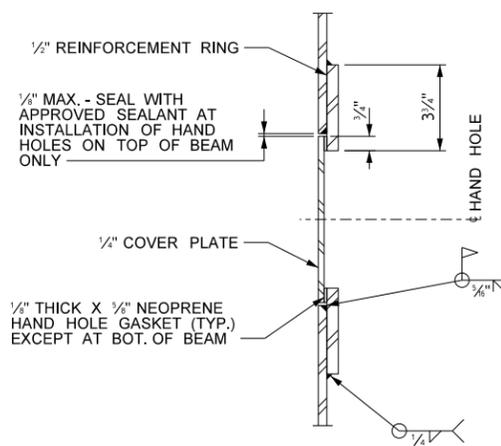


SECTION R



VIEW J

6"x11" HAND HOLE SHOWN
6"Ø HAND HOLE SIMILAR
EXCEPT AS NOTED



SECTION K

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_MTS_1.dgn				FED.AID PROJ.NO.
TIME	1:50:02 PM				
DATE	10/26/2012				
PLOTTED BY	valenalv				
DESIGNED BY	J. MERTH				
ENTERED BY	C.D. CLARK				
CHECKED BY	R. MURRAY				
PROJ. ENGR.	R.A. LEWIS				
REGIONAL ADM.	L. ENG				
REVISION	DATE	BY	CONTRACT NO.	LOCATION NO.	

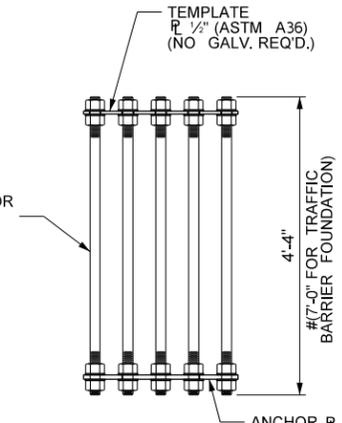
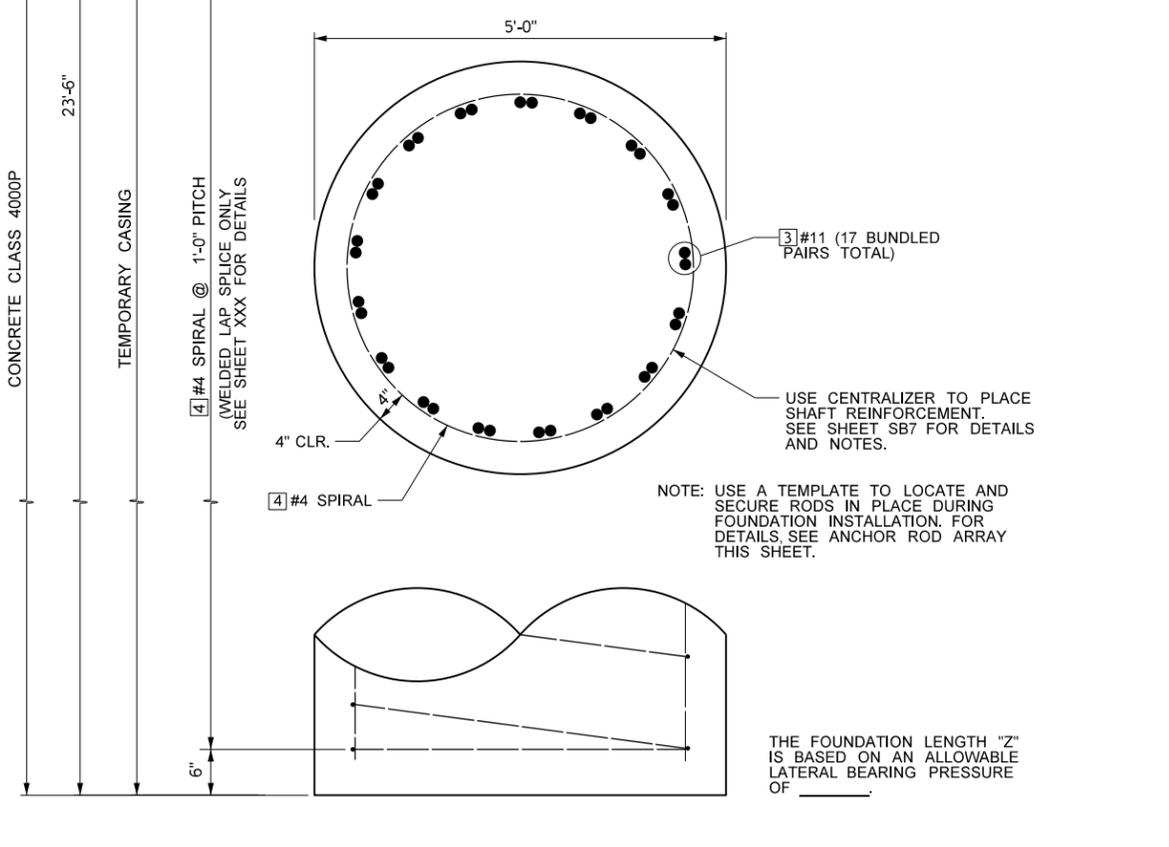
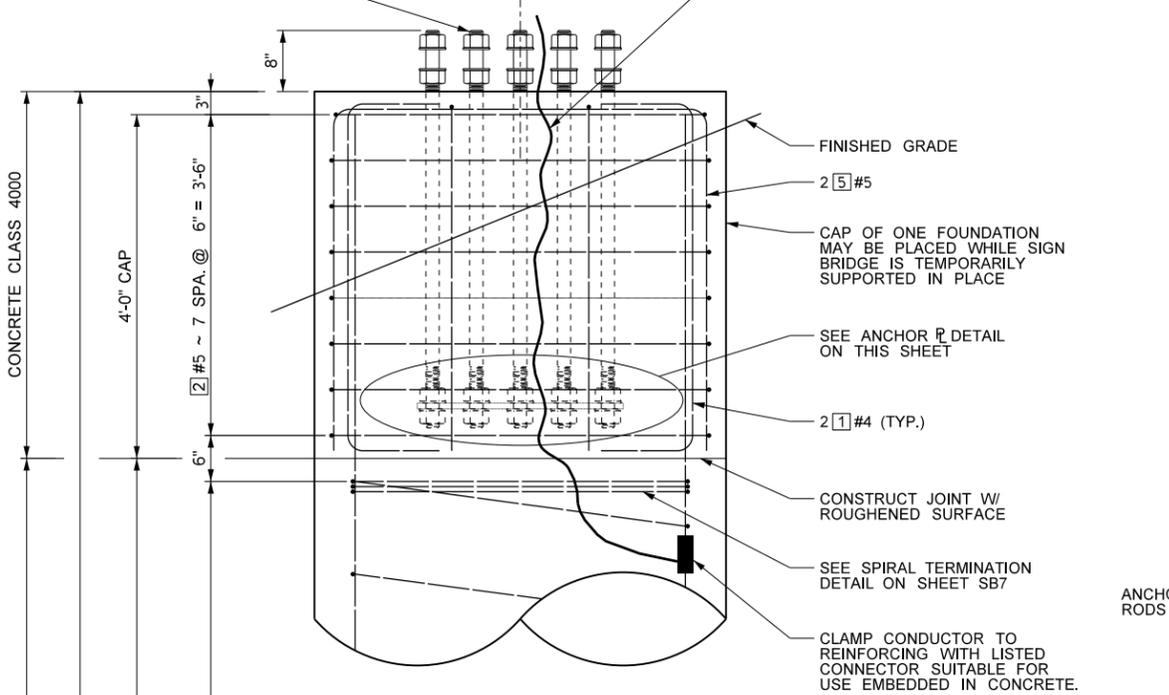
DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX

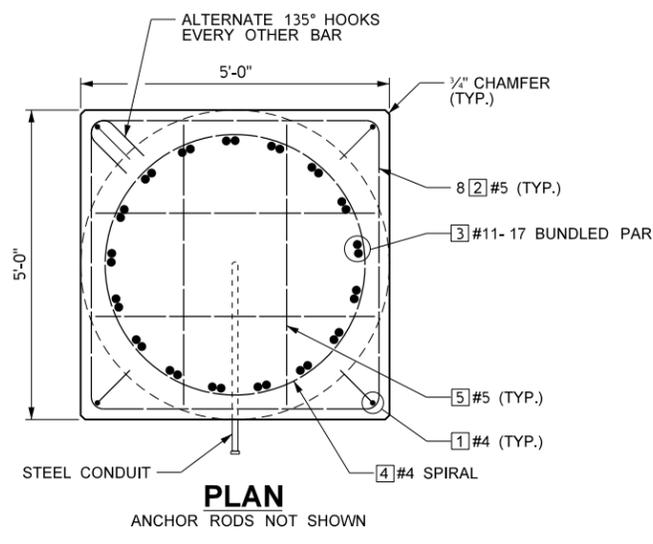


I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 5 PLAN REF NO SB5
SIGN BRIDGE STRUCTURAL DETAILS 2 OF 2	SHEET OF SHEETS

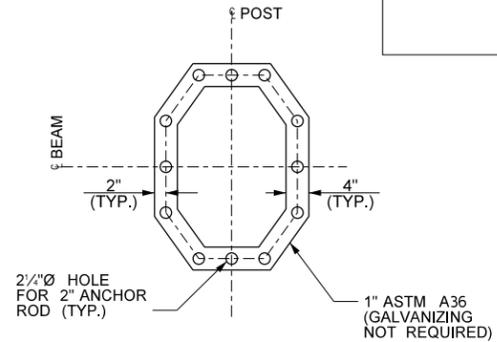
ANCHOR ROD ~ 2"Ø X 4'-4"
 LONG THREADED ROD WITH 2
 WASHERS AND 4 HEAVY HEX
 NUTS (TYP.) THREADED EACH
 END 8" GALVANIZE EXPOSED
 ANCHOR ROD END FOR 1'-0" MIN.



ANCHOR ROD ARRAY
 SHIP THE ANCHOR ROD ARRAY
 ASSEMBLY AS A COMPLETE UNIT.



PLAN
 ANCHOR RODS NOT SHOWN

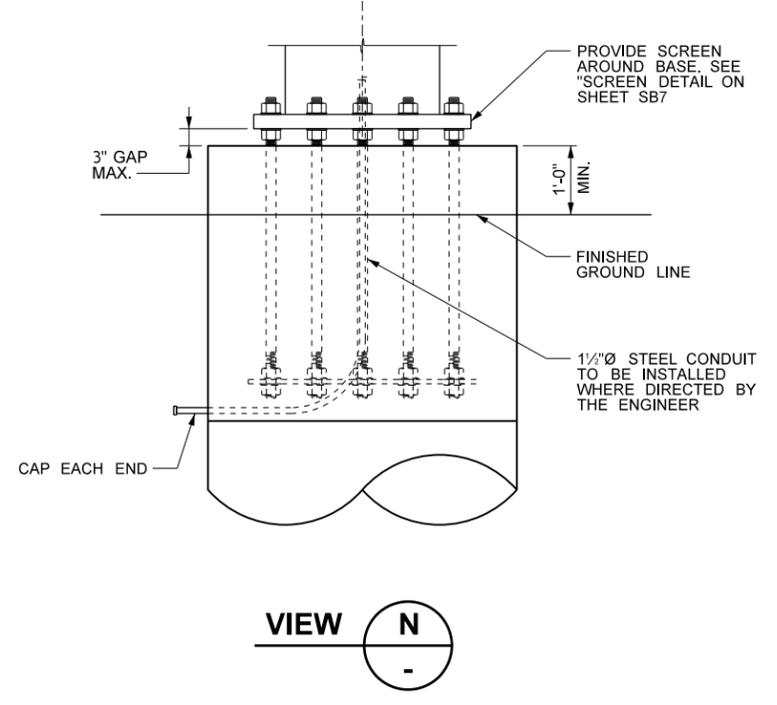
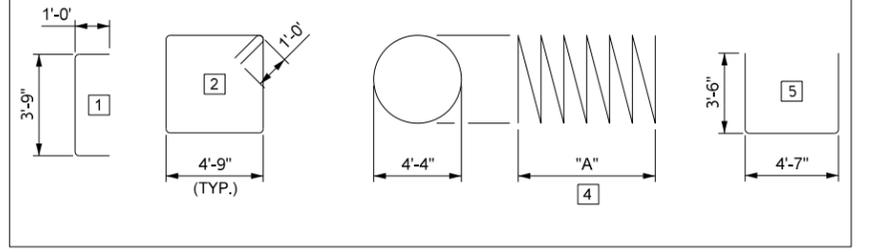


ANCHOR ROD DETAIL
 SEE SIGN STRUCTURE BASE PLATE
 FOR ANCHOR ROD PATTERN

BENDING DIAGRAM

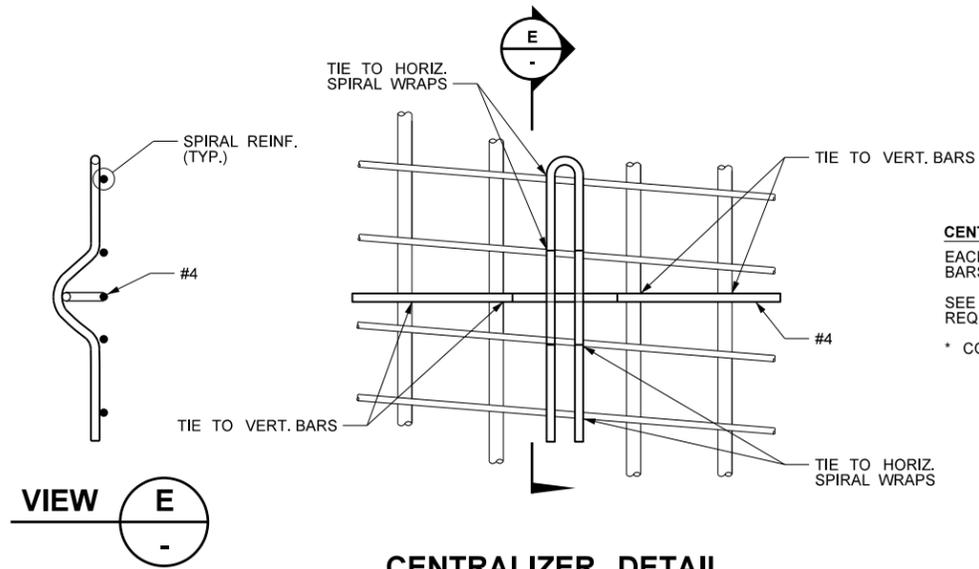
MARK	LOCATION	SIZE	NO. REQ'D.	LENGTH	
1	CAP VERTICAL	4	4	5'-6 1/2"	
2	CAP HOOPS	5	8	"A"	
3	SHAFT VERTICAL	11	34	23'-0"	STR.
4	SHAFT SPIRAL	4	1	"A"	
5	CAP TOP	5	4	"A"	

NOTE: CONCRETE COVER SHALL BE 1 1/2" UNLESS SHOWN OTHERWISE. "A" ~ DETERMINE FROM PLANS



VIEW N

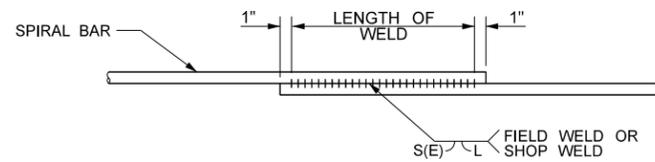
FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_MTS_1.dgn				FED.AID PROJ.NO.						I-5 116TH ST NE INTERCHANGE IMPROVEMENTS SIGN STRUCTURES FOUNDATION TYPE 1 - SHEET 1 OF 2		Plot 6			
TIME 1:50:21 PM	DATE 10/26/2012	PLOTTED BY valenalv	DESIGNED BY J. MERTH	ENTERED BY C.D. CLARK	CHECKED BY R. MURRAY	PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG	REVISION	DATE	BY	CONTRACT NO.	LOCATION NO.	DATE	DATE	PLAN REF NO SB6
												SHEET	OF SHEETS		



CENTRALIZER DETAIL

EPOXY COAT CENTRALIZER OR PAINT WITH INORGANIC ZINC AFTER FABRICATION (OPTION 1)

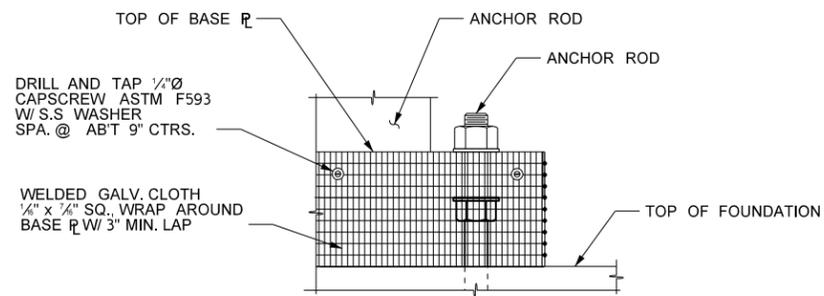
CENTRALIZER DETAIL NOTES:
 EACH LEG SHALL BE TIED TO ONE VERTICAL BARS AND TWO SPIRALS.
 SEE SPECIAL PROVISIONS FOR SPACING REQUIREMENTS.
 * CONCRETE COVER - MINUS 1/2"



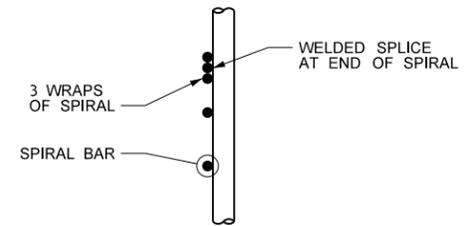
WELDED LAP SPICE DETAIL

WELDED SHALL MEET THE REQUIREMENTS OF STD. SPEC. 6-02.3(24)E FOR WELD DIMENSIONS, SEE TABLE BELOW

DEFORMED BAR	WELD DIMENSION (IN.)		
	S	E	LENGTH (L)
#4	1/4	1/4	4



SCREEN DETAIL



SPIRAL TERMINATION DETAIL

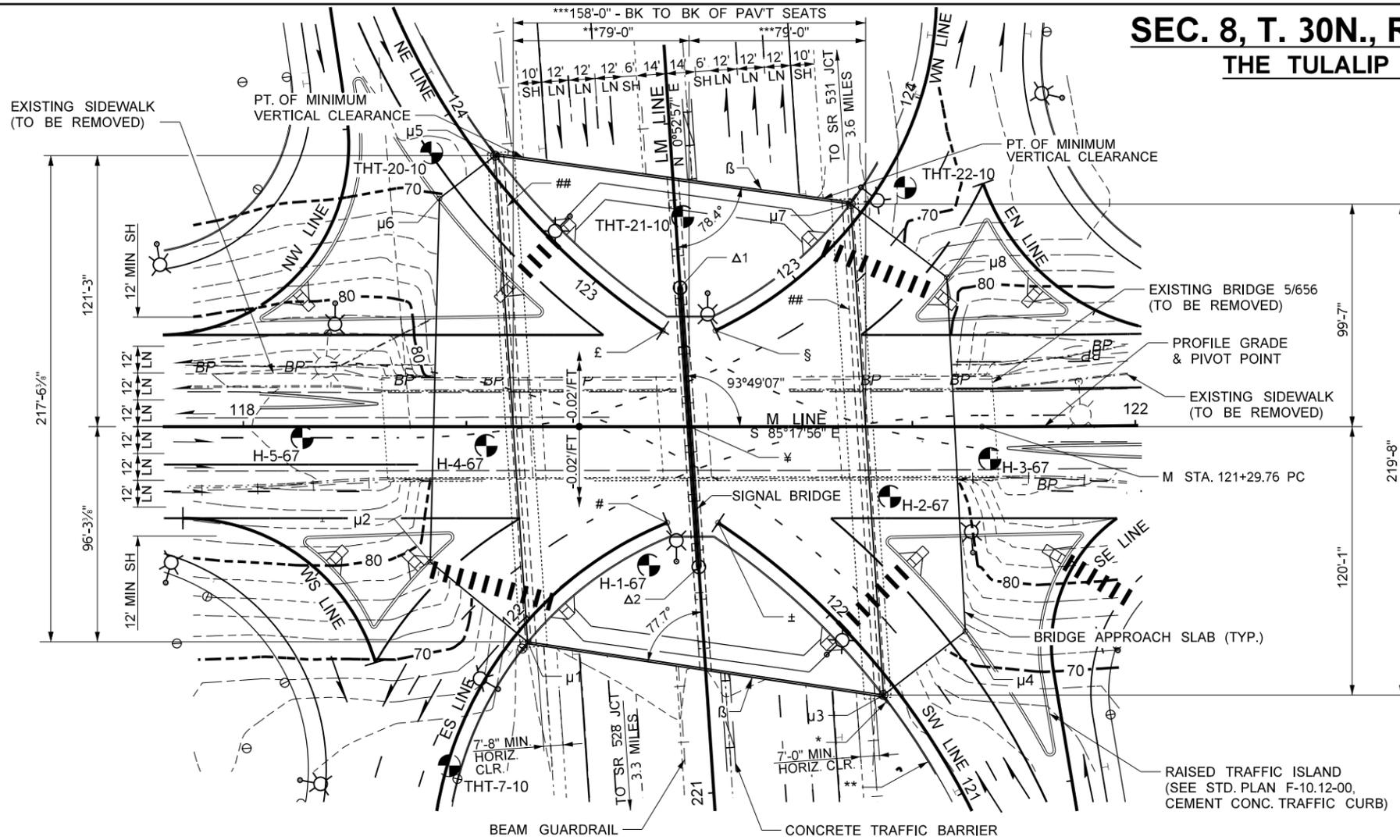
FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridg100% Plans\BL 1598033_BG_MTS_1.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:50:41 PM				10	WASH	
DATE	10/26/2012				JOB NUMBER		
PLOTTED BY	valenalv				CONTRACT NO.		
DESIGNED BY	J. MERTH				LOCATION NO.		
ENTERED BY	C.D. CLARK						
CHECKED BY	R. MURRAY						
PROJ. ENGR.	R.A. LEWIS						
REGIONAL ADM.	L. ENG				REVISION	DATE	BY

P.E. STAMP BOX



I-5
 116TH ST NE
 INTERCHANGE IMPROVEMENTS
 SIGN STRUCTURES
 FOUNDATION TYPE 1 - SHEET 2 OF 2

Plot 7
 PLAN REF NO
SB7
 SHEET
 OF
 SHEETS



LEGEND

- SOIL BORING LOCATION
- EXISTING LUMINAIRE
- EXISTING BURIED POWER
- EXISTING GUARDRAIL
- LUMINAIRE
- PEDESTRIAN SIGNAL

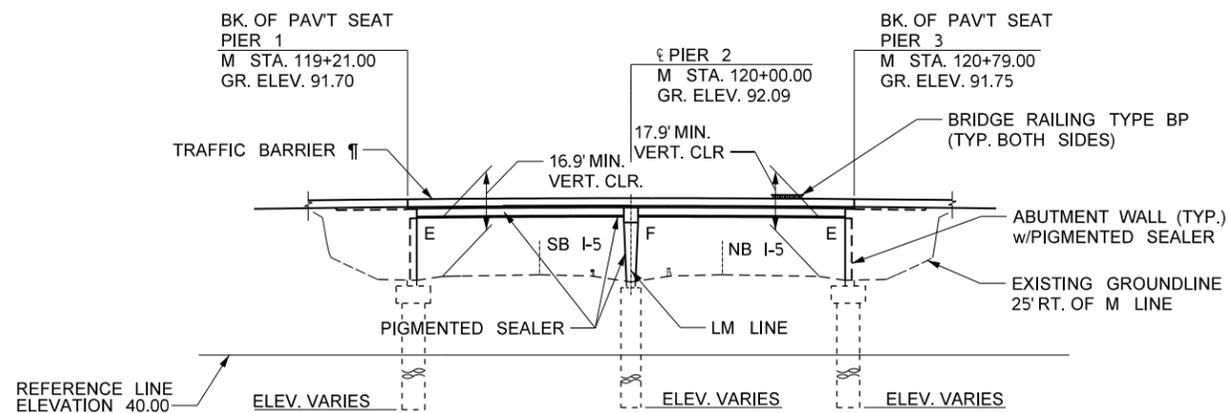
NOTE:
ALL EXISTING UTILITY LINES SHALL REMAIN UNLESS OTHERWISE NOTED.

- * - 4'-6" CURTAIN WALL (TYP. @ 4 CORNERS)
- ** - RETAINING WALL (TYP. @ 4 CORNERS)
- *** - MEASURED ALONG M LINE
- ## - FRONT FACE OF ABUTMENT
- β - 2 - 2"Ø CONDUIT PIPES IN PEDESTRIAN BARRIER FOR FULL LENGTH OF BARRIER (TYPICAL)
- ¶ - TEXTURED ARCHITECTURAL SURFACE TO BE DETERMINED

- £ - M STA. 119+88.03 (43' LT) P.O.T.= NE STA. 122+62.62 P.O.C.
- § - M STA. 120+11.75 (43' LT) P.O.T.= WN STA. 122+57.37 P.O.C.
- # - M STA. 119+90.02 (43' RT) P.O.T.= ES STA. 122+75.82 P.O.C.
- ± - M STA. 120+12.90 (43' RT) P.O.T.= SW STA. 122+64.87 P.O.C.
- ¥ - M STA. 120+00.00 P.O.T.= LM STA. 222+64.17 P.O.T.
- μ1 - M STA. 119+27.42 (96.3' RT.)
- μ2 - M STA. 118+83.80 (60.5' RT.)
- μ3 - M STA. 120+87.02 (120.1' RT.)
- μ4 - M STA. 121+23.73 (91.6' RT.)
- μ5 - M STA. 119+12.90 (121.3' LT.)
- μ6 - M STA. 118+87.87 (102.1' LT.)
- μ7 - M STA. 120+72.37 (99.6' LT.)
- μ8 - M STA. 121+15.46 (66.8' LT.)
- Δ1 - M STA. 119+95.85 (62.14' LT.)
- Δ2 - M STA. 120+04.19 (62.66' RT.)

PLAN

BEARING OF ALL PIERS IS N 0°52'57" E



ELEVATION

GRADE ELEVATIONS SHOWN ARE FINISH GRADE AT TOP OF BRIDGE DECK ON M LINE AND ARE EQUAL TO PROFILE GRADE.

DATUM

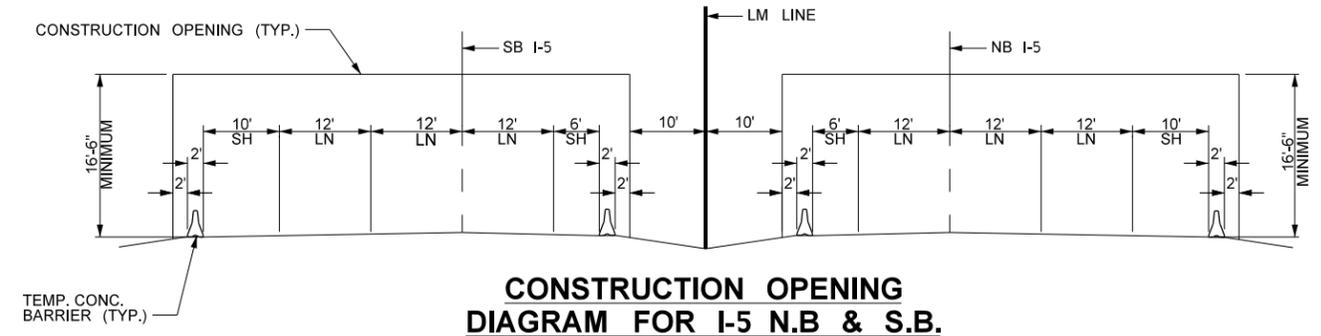
NAVD88

**P.C. GIRDERS (WF36G)
CONTINUOUS FOR L.L.
LOADING: HL-93**

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_LYT.dgn			FED.AID PROJ.NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS LAYOUT	PLAN REF NO
TIME	5:38:25 PM							BR1
DATE	10/25/2012						SHEET	
PLOTTED BY	valenalv						OF	
DESIGNED BY	J. MERTH						SHEETS	
ENTERED BY	V. SCHICCHI							
CHECKED BY	R. MURRAY							
PROJ. ENGR.	R.A. LEWIS							
REGIONAL ADM.	L. ENG			REVISION	DATE	BY		

GENERAL NOTES

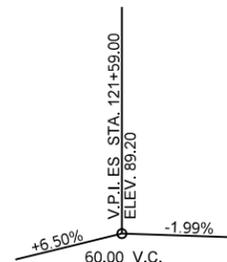
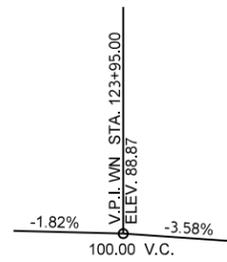
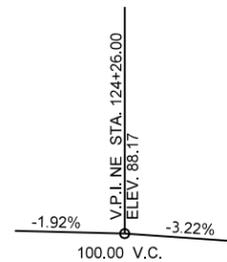
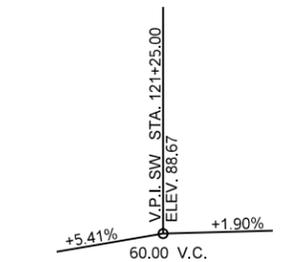
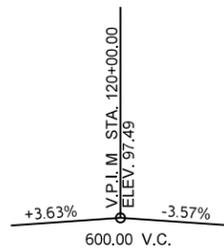
- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION DATED 2012, AND AMENDMENTS.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION, 2012. THE SEISMIC DESIGN OF THIS STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATION FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION USING SEISMIC DESIGN CATEGORY C, SITE CLASS D, PEAK GROUND ACCELERATION OF 0.35G, AND 0.2 SECOND AND 1.0 SECOND SPECTRAL ACCELERATION OF 0.78G AND 0.27G, RESPECTIVELY. DEAD LOAD INCLUDES ADDITIONAL FUTURE WEARING SURFACE OF 25 POUNDS PER SQUARE FOOT.
- THE CONCRETE IN THE BRIDGE DECK SHALL BE CLASS 4000D. THE CONCRETE IN THE BRIDGE APPROACH SLABS SHALL BE CLASS 4000A. THE CONCRETE IN THE DRILLED SHAFTS SHALL BE 4000P. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE 4000.
- UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2 1/2" AT THE TOP OF THE BRIDGE DECK, 1" AT THE BOTTOM OF THE BRIDGE DECK, AND 1 1/2" AT ALL OTHER LOCATIONS.
- FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.
- CONDUITS, JUNCTION BOXES, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE THESE PLANS WITH THE ELECTRICAL, I.T.S., AND OTHER CIVIL PLANS.
- THE CONTRACTOR MAY BACKFILL BEHIND THE ABUTMENTS PRIOR TO PLACEMENT OF THE SUPERSTRUCTURE.
- SEISMIC DOWNDRAW FORCE SHALL BE TAKEN AS 1380 KIPS AT PIER 1, 1280 KIPS AT PIER 2, AND 1420 KIPS AT PIER 3.
- NOMINAL SHAFT RESISTANCE SHALL BE TAKEN AS FOLLOWS:



SERVICE-I LIMIT STATE		
PIER NO.	SKIN FRICTION RESISTANCE (kips)	END BEARING RESISTANCE (kips)
1	4215	690
2	3445	615
3	4265	920

STRENGTH LIMIT STATE & EXTREME EVENT-I LIMIT STATE W/O SOIL LIQUEFACTION		
PIER NO.	SKIN FRICTION RESISTANCE	END BEARING RESISTANCE
1	2440	450
2	1995	405
3	2470	600

EXTREME EVENT-I LIMIT STATE W/ SOIL LIQUEFACTION (INCLUDES LOSS OF SKIN FRICTION)		
PIER NO.	SKIN FRICTION RESISTANCE	END BEARING RESISTANCE
1	2765	1130
2	1955	1010
3	2965	1505



M LINE PROFILE

SW LINE PROFILE

NE LINE PROFILE

WN LINE PROFILE

ES LINE PROFILE

LEGEND

- IDENTIFIES SECTION, VIEW OR DETAIL
- TAKEN OR SHOWN ON BRIDGE SHEET BR15
- TAKEN OR SHOWN ON THE SAME SHEET

CURVE DATA

P.I. STATION	DELTA	RADIUS	TANGENT	LENGTH	BK. TANGENT BRG.
M 122+28.62	2°15'55"LT	5000.00'	98.86'	197.69'	S 85°17'56" E
SW 121+21.90	53°15'01"LT	334.00'	167.44'	310.42'	N 07°36'16" E
WN 123+16.81	37°03'02"LT	177.39'	59.44'	114.71'	N 69°24'57" E
ES 121+82.91	77°25'25"RT	169.00'	135.45'	228.37'	N 04°46'00" W
NE 124+59.13	61°32'48"RT	330.00'	196.51'	354.48'	N 51°47'47" W

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridg100% Plans\BL 1598033_BG_GN.dgn		
TIME	5:40:03 PM	REGION NO.	10
DATE	10/25/2012	STATE	WASH
PLOTTED BY	valenalv	JOB NUMBER	
DESIGNED BY	J. MERTH	CONTRACT NO.	
ENTERED BY	V. SCHICCHI	LOCATION NO.	
CHECKED BY	R. MURRAY		
PROJ. ENGR.	R.A. LEWIS		
REGIONAL ADM.		REVISION	DATE BY

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX



Plot 1
PLAN REF NO
BR2
SHEET
OF
SHEETS

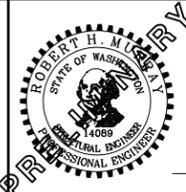
**I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS**

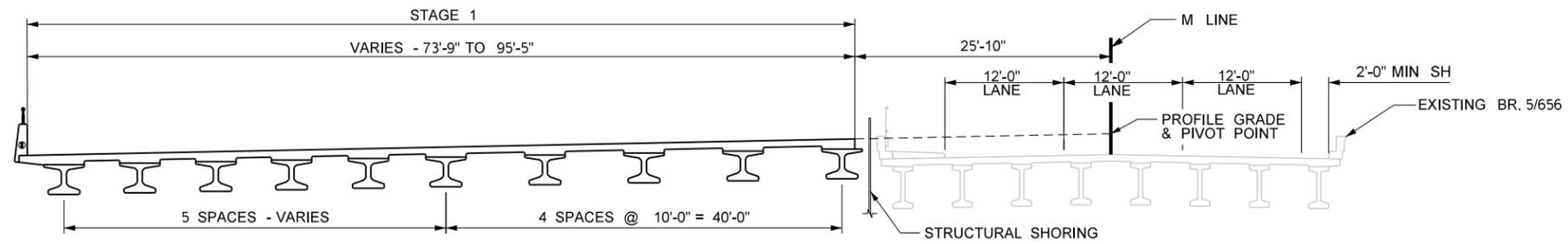
GENERAL NOTES

EXISTING PAVEMENT CALCULATIONS FOR SOUTHBOUND I5 UNDER 116TH ST INTERCHANGE						
STATION	EXISTING LEFT EDGE OF PAVEMENT		CROWN		EXISTING RIGHT EDGE OF PAVEMENT	
LOCATION	ELEVATION	OFFSET	ELEVATION	OFFSET	ELEVATION	OFFSET
LM 220+00.00	60.96	-14.00'	61.46	-38.00'	60.28	-65.00'
LM 220+10.00	61.17	-14.00'	61.69	-38.00'	60.50	-65.00'
LM 220+20.00	61.39	-14.00'	61.91	-38.00'	60.71	-65.00'
LM 220+30.00	61.61	-14.00'	62.14	-38.00'	60.91	-65.00'
LM 220+40.00	61.83	-14.00'	62.37	-38.00'	61.13	-65.00'
LM 220+50.00	62.05	-14.00'	62.60	-38.00'	61.36	-65.00'
LM 220+60.00	62.28	-14.00'	62.80	-38.00'	61.59	-65.00'
LM 220+70.00	62.51	-14.00'	63.00	-38.00'	61.83	-65.00'
LM 220+80.00	62.77	-14.00'	63.20	-38.00'	62.05	-65.00'
LM 220+90.00	63.03	-14.00'	63.40	-38.00'	62.28	-65.00'
LM 221+00.00	63.23	-14.00'	63.60	-38.00'	62.50	-65.00'
LM 221+10.00	63.43	-14.00'	63.83	-38.00'	62.72	-65.00'
LM 221+20.00	63.67	-14.00'	64.06	-38.00'	62.93	-65.00'
LM 221+30.00	63.91	-14.00'	64.29	-38.00'	63.14	-65.00'
LM 221+40.00	64.14	-14.00'	64.52	-38.00'	63.34	-65.00'
LM 221+50.00	64.34	-14.00'	64.76	-38.00'	63.56	-65.00'
LM 221+60.00	64.53	-14.00'	64.98	-38.00'	63.78	-65.00'
LM 221+70.00	64.74	-14.00'	65.19	-38.00'	64.00	-65.00'
LM 221+80.00	64.96	-14.00'	65.41	-38.00'	64.22	-65.00'
LM 221+90.00	65.18	-14.00'	65.63	-38.00'	64.44	-65.00'
LM 222+00.00	65.41	-14.00'	65.85	-38.00'	64.65	-65.00'
LM 222+10.00	65.65	-14.00'	66.05	-38.00'	64.86	-65.00'
LM 222+20.00	65.89	-14.00'	66.26	-38.00'	65.07	-65.00'
LM 222+30.00	66.08	-14.00'	66.46	-38.00'	65.28	-65.00'
LM 222+40.00	66.27	-14.00'	66.66	-38.00'	65.48	-65.00'
LM 222+50.00	66.45	-14.00'	66.86	-38.00'	65.70	-65.00'
LM 222+60.00	66.69	-14.00'	67.06	-38.00'	65.93	-65.00'
LM 222+70.00	66.91	-14.00'	67.26	-38.00'	66.15	-65.00'
LM 222+80.00	67.12	-14.00'	67.46	-38.00'	66.35	-65.00'
LM 222+90.00	67.31	-14.00'	67.66	-38.00'	66.55	-65.00'
LM 223+00.00	67.50	-14.00'	67.86	-38.00'	66.77	-65.00'
LM 223+10.00	67.71	-14.00'	68.07	-38.00'	66.99	-65.00'
LM 223+20.00	67.92	-14.00'	68.27	-38.00'	67.22	-65.00'
LM 223+30.00	68.13	-14.00'	68.48	-38.00'	67.43	-65.00'
LM 223+40.00	68.29	-14.00'	68.68	-38.00'	67.63	-65.00'
LM 223+50.00	68.44	-14.00'	68.89	-38.00'	67.83	-65.00'
LM 223+60.00	68.61	-14.00'	69.06	-38.00'	68.00	-65.00'
LM 223+70.00	68.80	-14.00'	69.24	-38.00'	68.18	-65.00'
LM 223+80.00	68.99	-14.00'	69.41	-38.00'	68.35	-65.00'
LM 223+90.00	69.17	-14.00'	69.59	-38.00'	68.53	-65.00'
LM 224+00.00	69.34	-14.00'	69.77	-38.00'	68.71	-65.00'

EXISTING PAVEMENT CALCULATIONS FOR NORTHBOUND I5 UNDER 116TH ST INTERCHANGE						
STATION	EXISTING LEFT EDGE OF PAVEMENT		CROWN		EXISTING RIGHT EDGE OF PAVEMENT	
LOCATION	ELEVATION	OFFSET	ELEVATION	OFFSET	ELEVATION	OFFSET
LM 220+00.00	60.71	-14.00'	61.46	-38.00'	60.28	-65.00'
LM 220+10.00	60.92	-14.00'	61.69	-38.00'	60.50	-65.00'
LM 220+20.00	61.15	-14.00'	61.91	-38.00'	60.72	-65.00'
LM 220+30.00	61.39	-14.00'	62.14	-38.00'	60.95	-65.00'
LM 220+40.00	61.62	-14.00'	62.37	-38.00'	61.16	-65.00'
LM 220+50.00	61.83	-14.00'	62.60	-38.00'	61.38	-65.00'
LM 220+60.00	62.04	-14.00'	62.80	-38.00'	61.59	-65.00'
LM 220+70.00	62.25	-14.00'	63.00	-38.00'	61.80	-65.00'
LM 220+80.00	62.47	-14.00'	63.20	-38.00'	62.02	-65.00'
LM 220+90.00	62.69	-14.00'	63.40	-38.00'	62.23	-65.00'
LM 221+00.00	62.93	-14.00'	63.60	-38.00'	62.48	-65.00'
LM 221+10.00	63.18	-14.00'	63.83	-38.00'	62.73	-65.00'
LM 221+20.00	63.43	-14.00'	64.06	-38.00'	62.98	-65.00'
LM 221+30.00	63.67	-14.00'	64.29	-38.00'	63.21	-65.00'
LM 221+40.00	63.90	-14.00'	64.52	-38.00'	63.44	-65.00'
LM 221+50.00	64.12	-14.00'	64.76	-38.00'	63.67	-65.00'
LM 221+60.00	64.34	-14.00'	64.98	-38.00'	63.89	-65.00'
LM 221+70.00	64.56	-14.00'	65.19	-38.00'	64.10	-65.00'
LM 221+80.00	64.77	-14.00'	65.41	-38.00'	64.32	-65.00'
LM 221+90.00	64.98	-14.00'	65.63	-38.00'	64.53	-65.00'
LM 222+00.00	65.20	-14.00'	65.85	-38.00'	64.74	-65.00'
LM 222+10.00	65.43	-14.00'	66.05	-38.00'	64.94	-65.00'
LM 222+20.00	65.66	-14.00'	66.26	-38.00'	65.15	-65.00'
LM 222+30.00	65.87	-14.00'	66.46	-38.00'	65.36	-65.00'
LM 222+40.00	66.08	-14.00'	66.66	-38.00'	65.56	-65.00'
LM 222+50.00	66.29	-14.00'	66.86	-38.00'	65.78	-65.00'
LM 222+60.00	66.49	-14.00'	67.06	-38.00'	65.99	-65.00'
LM 222+70.00	66.69	-14.00'	67.26	-38.00'	66.18	-65.00'
LM 222+80.00	66.89	-14.00'	67.46	-38.00'	66.37	-65.00'
LM 222+90.00	67.10	-14.00'	67.66	-38.00'	66.57	-65.00'
LM 223+00.00	67.30	-14.00'	67.86	-38.00'	66.77	-65.00'
LM 223+10.00	67.48	-14.00'	68.07	-38.00'	66.97	-65.00'
LM 223+20.00	67.65	-14.00'	68.27	-38.00'	67.15	-65.00'
LM 223+30.00	67.82	-14.00'	68.48	-38.00'	67.34	-65.00'
LM 223+40.00	68.02	-14.00'	68.68	-38.00'	67.54	-65.00'
LM 223+50.00	68.22	-14.00'	68.89	-38.00'	67.73	-65.00'
LM 223+60.00	68.41	-14.00'	69.06	-38.00'	67.91	-65.00'
LM 223+70.00	68.59	-14.00'	69.24	-38.00'	68.10	-65.00'
LM 223+80.00	68.77	-14.00'	69.41	-38.00'	68.27	-65.00'
LM 223+90.00	68.94	-14.00'	69.59	-38.00'	68.46	-65.00'
LM 224+00.00	69.09	-14.00'	69.77	-38.00'	68.65	-65.00'

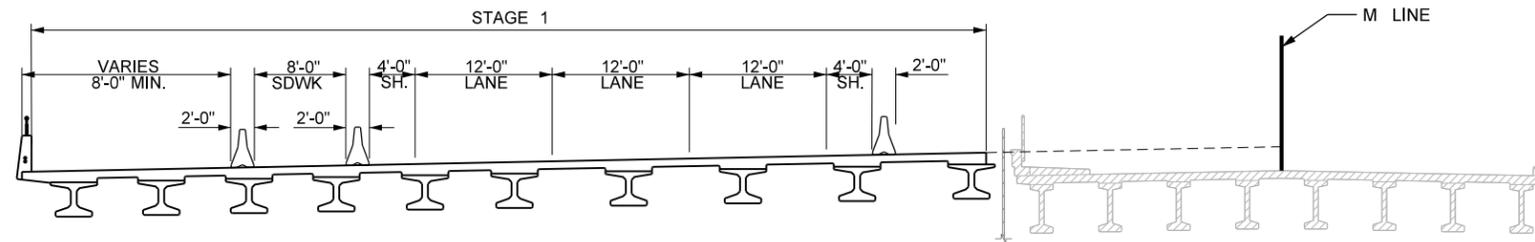
EXISTING ELEVATIONS

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_GN.dgn				FED.AID PROJ.NO.			<p align="center">I-5 116TH ST NE INTERCHANGE IMPROVEMENTS</p>	Plot 2
TIME	5:40:28 PM								PLAN REF NO
DATE	10/25/2012				REGION NO. STATE 10 WASH	PROFESSIONAL ENGINEER		<p align="center">EXISTING ELEVATIONS</p>	BR3
PLOTTED BY	valenalv								JOB NUMBER
DESIGNED BY	J. MERTH				CONTRACT NO.	LOCATION NO.		<p align="center">EXISTING ELEVATIONS</p>	OF
ENTERED BY	V. SCHICCHI								REVISION
CHECKED BY	R. MURRAY								
PROJ. ENGR.	R.A. LEWIS								
REGIONAL ADM.									



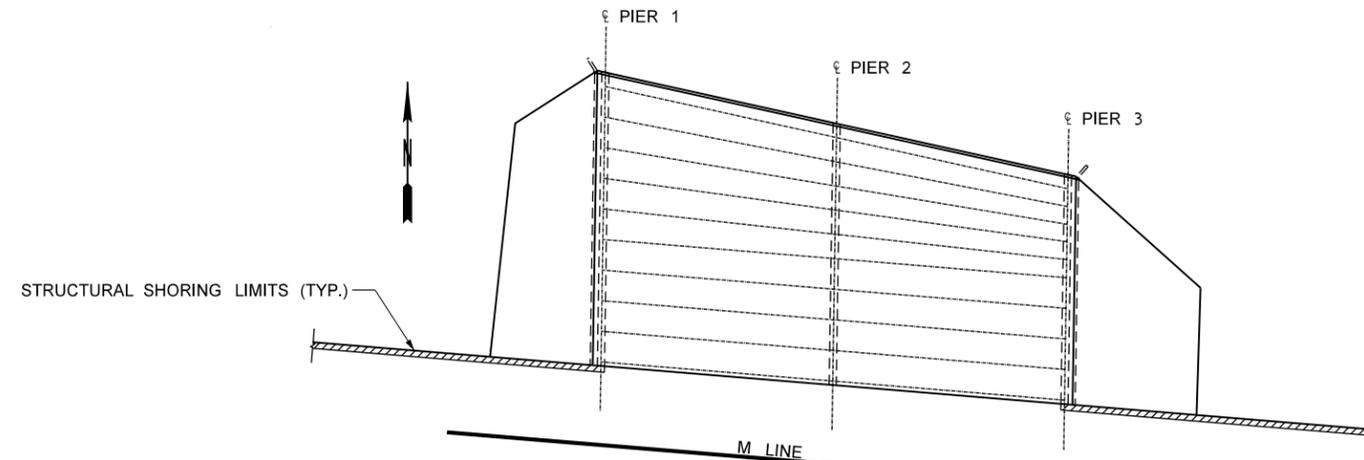
CONSTRUCTION STAGE 1

1. INSTALL SHAFTS, CAP AND ABUTMENT WALLS FOR NORTH PORTIONS OF PIERS 1 & 3.
2. INSTALL SHAFTS, CAP AND COLUMNS FOR NORTH PORTION OF PIER 2.
3. INSTALL STRUCTURAL SHORING AT THE SOUTH SIDE OF STAGE 1 CONSTRUCTION. SEE STAGE 1 PLAN VIEW, THIS SHEET FOR APPROX. LIMITS.
4. CONSTRUCT STRUCTURAL EARTH WALLS NORTH SIDE OF STAGE 1 CONSTRUCTION.
5. CONSTRUCT NORTH SIDE OF NEW BRIDGE SUPERSTRUCTURE, INCLUDING BRIDGE APPROACH SLABS.



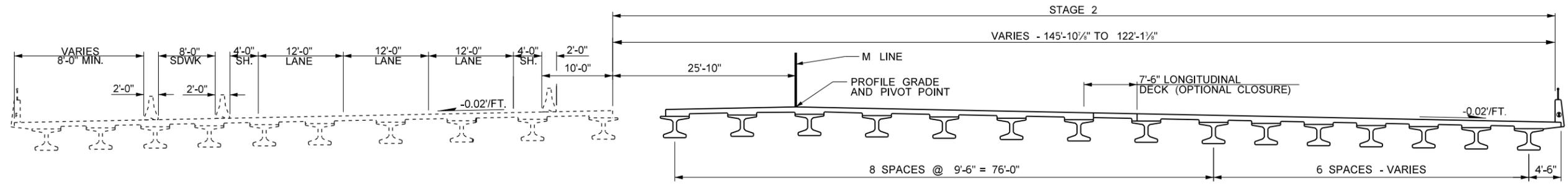
CONSTRUCTION STAGE 1-CONTINUED

1. INSTALL TEMPORARY CONCRETE BARRIERS.
2. SHIFT TRAFFIC TO NORTH SIDE OF NEW BRIDGE.
3. REMOVE EXISTING BR 5/656.



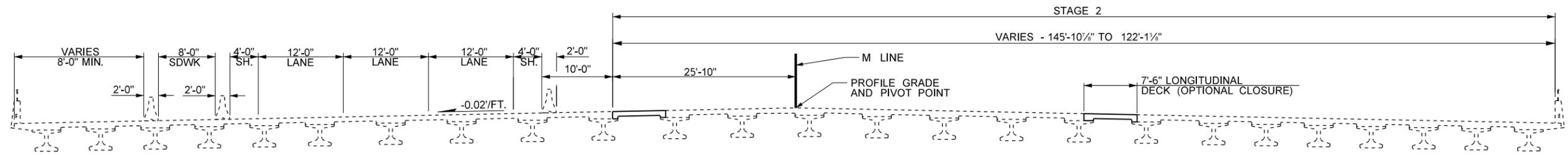
PLAN CONSTRUCTION - STAGE 1

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_STAGE.dgn		REGION NO. STATE		FED.AID PROJ.NO.		ROBERT H. M. LEWIS STATE OF WASHINGTON PROFESSIONAL ENGINEER NO. 14089		TULALIP TRIBES Parametrix		I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 1
TIME 5:41:09 PM	DATE 10/25/2012	10	WASH			DATE		DATE		CONSTRUCTION STAGING SEQUENCE		PLAN REF NO
PLOTTED BY valenav	DESIGNED BY J. MERTH	JOB NUMBER				DATE		DATE				BR4
ENTERED BY C. CLARK	CHECKED BY R. MURRAY	CONTRACT NO.		LOCATION NO.		DATE		DATE				SHEET
PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG	REVISION	DATE	BY		DATE		DATE				OF
						DATE		DATE				SHEETS



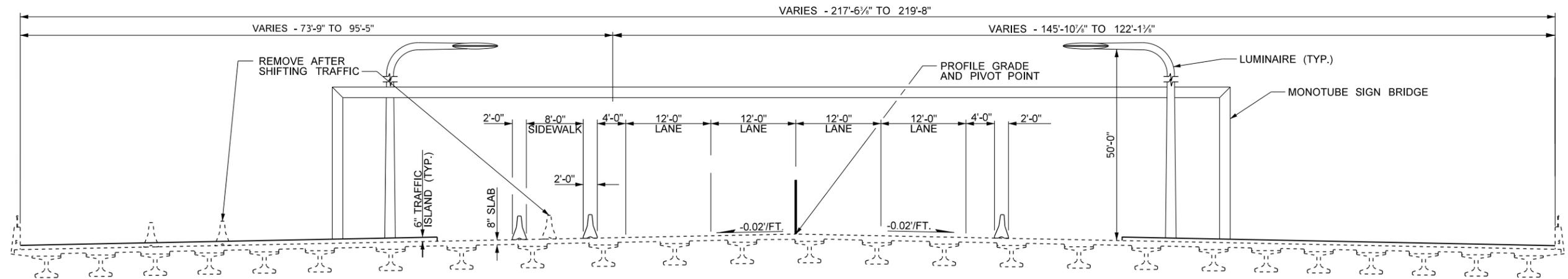
CONSTRUCTION STAGE 2

1. INSTALL SHAFTS, CAP AND ABUTMENT WALLS FOR SOUTH PORTIONS OF PIERS 1 & 3.
2. INSTALL SHAFTS, CAP AND COLUMNS FOR SOUTH PORTIONS OF PIER 2.
3. REMOVE OR CUT AND BURY STRUCTURAL SHORING.
4. CONSTRUCT STRUCTURAL EARTH WALLS SOUTH SIDE OF STAGE 2 CONSTRUCTION.
5. CONSTRUCT SOUTH SIDE OF SUPERSTRUCTURE BRIDGE INCLUDING BRIDGE APPROACH SLABS.



CONSTRUCTION STAGE 2 - CONTINUED

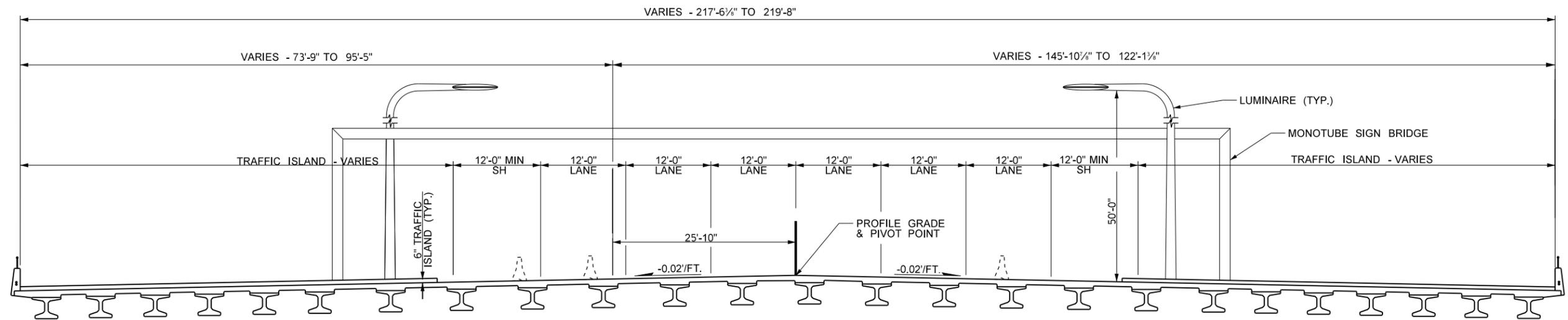
1. PLACE CLOSURE BETWEEN STAGES 1 & 2
2. OPTIONAL - PLACE STAGE CLOSURE.



CONSTRUCTION STAGE 2 - CONTINUED

1. INSTALL TEMPORARY CONCRETE BARRIER.
2. SHIFT TRAFFIC TO APPROXIMATE CENTER OF STRUCTURE.
3. INSTALL TEMPORARY SIDEWALK BARRIER.
4. CAST THE 6" TRAFFIC ISLANDS.
5. INSTALL MONOTUBE SIGN BRIDGE.
6. INSTALL LUMINAIRES.

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_STAGE.dgn			FED.AID PROJ.NO.			<p>I-5 116TH ST NE INTERCHANGE IMPROVEMENTS</p>	Plot 2
TIME	5:41:28 PM	REGION NO.	STATE	10 WASH				PLAN REF NO
DATE	10/25/2012	JOB NUMBER					<p>CONSTRUCTION STAGING SEQUENCE</p>	SHEET
PLOTTED BY	valenalv	CONTRACT NO.						OF
DESIGNED BY	J. MERTH	LOCATION NO.			DATE			
ENTERED BY	C. CLARK				P.E. STAMP BOX			
CHECKED BY	R. MURRAY				DATE			
PROJ. ENGR.	R.A. LEWIS							
REGIONAL ADM.	L. ENG	REVISION	DATE	BY				



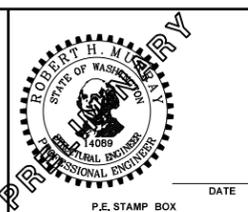
**CONSTRUCTION STAGE 2 CONTINUED
FINAL ROADWAY CONFIGURATION**

1. REMOVE TEMPORARY CONCRETE BARRIERS.
2. CONVERT DIAMOND INTERCHANGE TO A SPUI.

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADD\Bridg\100% Plans\BL 1598033_BG_STAGE.dgn			
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DATE	10/25/2012	10	WASH
PLOTTED BY	valenav	JOB NUMBER	
DESIGNED BY	J. MERTH	CONTRACT NO.	LOCATION NO.
ENTERED BY	C. CLARK		
CHECKED BY	R. MURRAY		
PROJ. ENGR.	R.A. LEWIS		
REGIONAL ADM.	L. ENG	REVISION	DATE BY

FED.AID PROJ.NO.

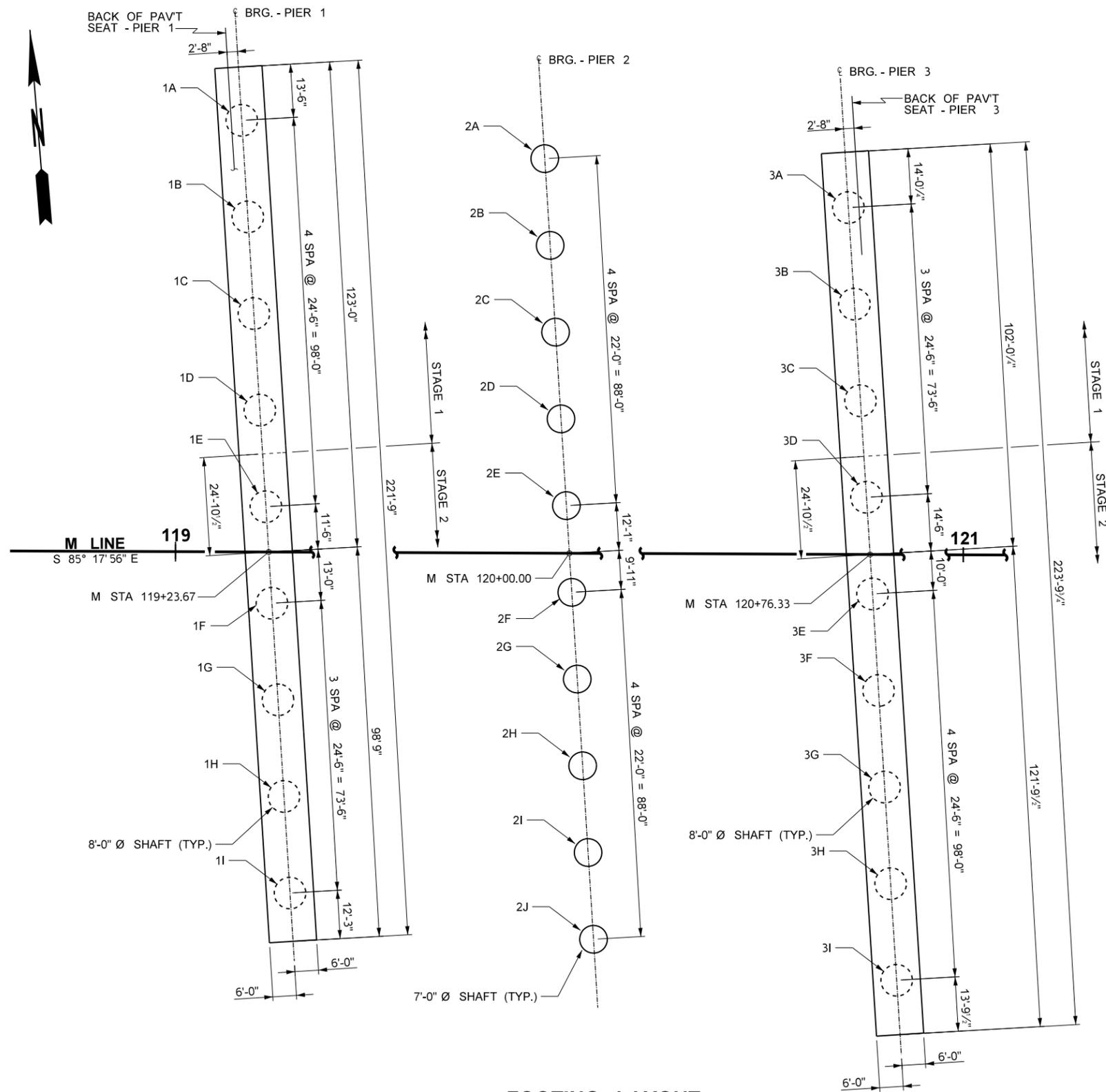
P.E. STAMP BOX



**I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS**

CONSTRUCTION STAGING SEQUENCE

Plot 3
PLAN REF NO
BR6
SHEET
OF
SHEETS



FOOTING LAYOUT

BEARING OF ALL PIERS IS N 0°52'57" E

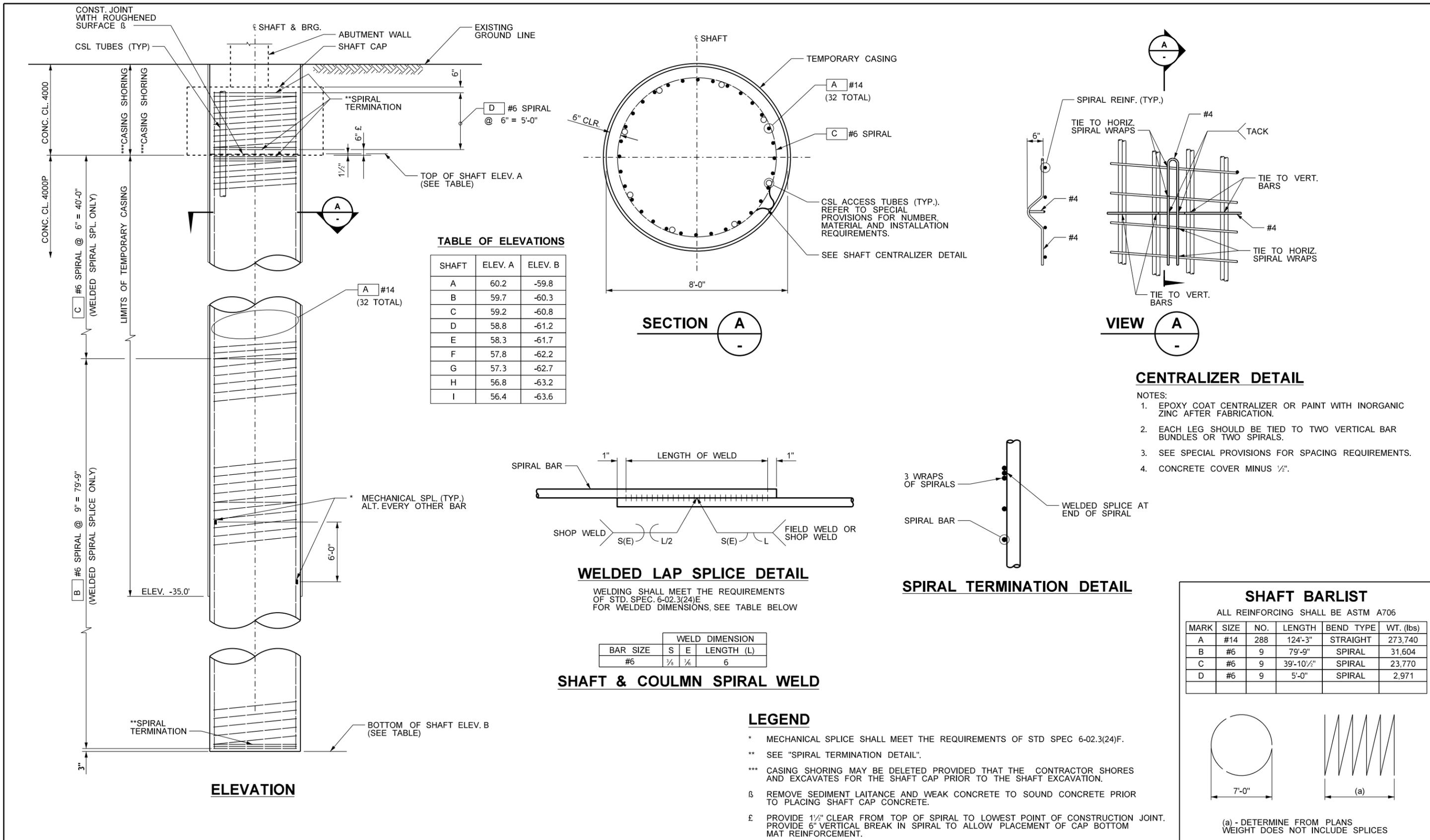
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TIME	5:42:36 PM			
DATE	10/25/2012			
PLOTTED BY	valenalv			
DESIGNED BY	J. MERTH			
ENTERED BY	V. SCHICCHI			
CHECKED BY				
PROJ. ENGR.				
REGIONAL ADM.	L. ENG	REVISION	DATE	BY
REGION NO.	10	STATE	WASH	
JOB NUMBER				
CONTRACT NO.				
LOCATION NO.				
FED.AID PROJ.NO.				

DATE _____ P.E. STAMP BOX

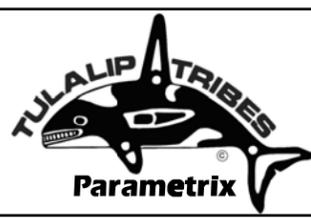
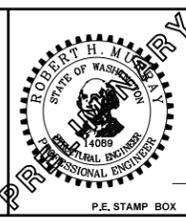
DATE _____ P.E. STAMP BOX



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 11 PLAN REF NO BR7
FOUNDATION PLAN	SHEET OF SHEETS



FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_SHAFT.dgn				REGION NO. STATE		FED.AID PROJ.NO.		DATE		PLOT 1	
TIME 5:43:21 PM				10 WASH				DATE		PLAN REF NO	
DATE 10/25/2012								DATE		BR8	
PLOTTED BY valenalv								DATE		SHEET	
DESIGNED BY J. MERTH								DATE		OF	
ENTERED BY C.D. CLARK								DATE		SHEETS	
CHECKED BY R. MURRAY								DATE			
PROJ. ENGR. R.A. LEWIS								DATE			
REGIONAL ADM. L. ENG				REVISION		DATE BY		DATE			



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
PIER 1 SHAFT

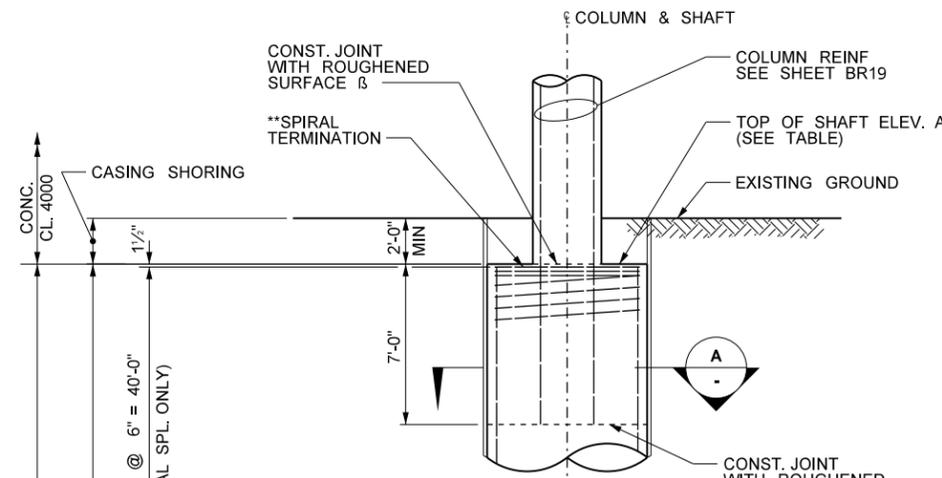
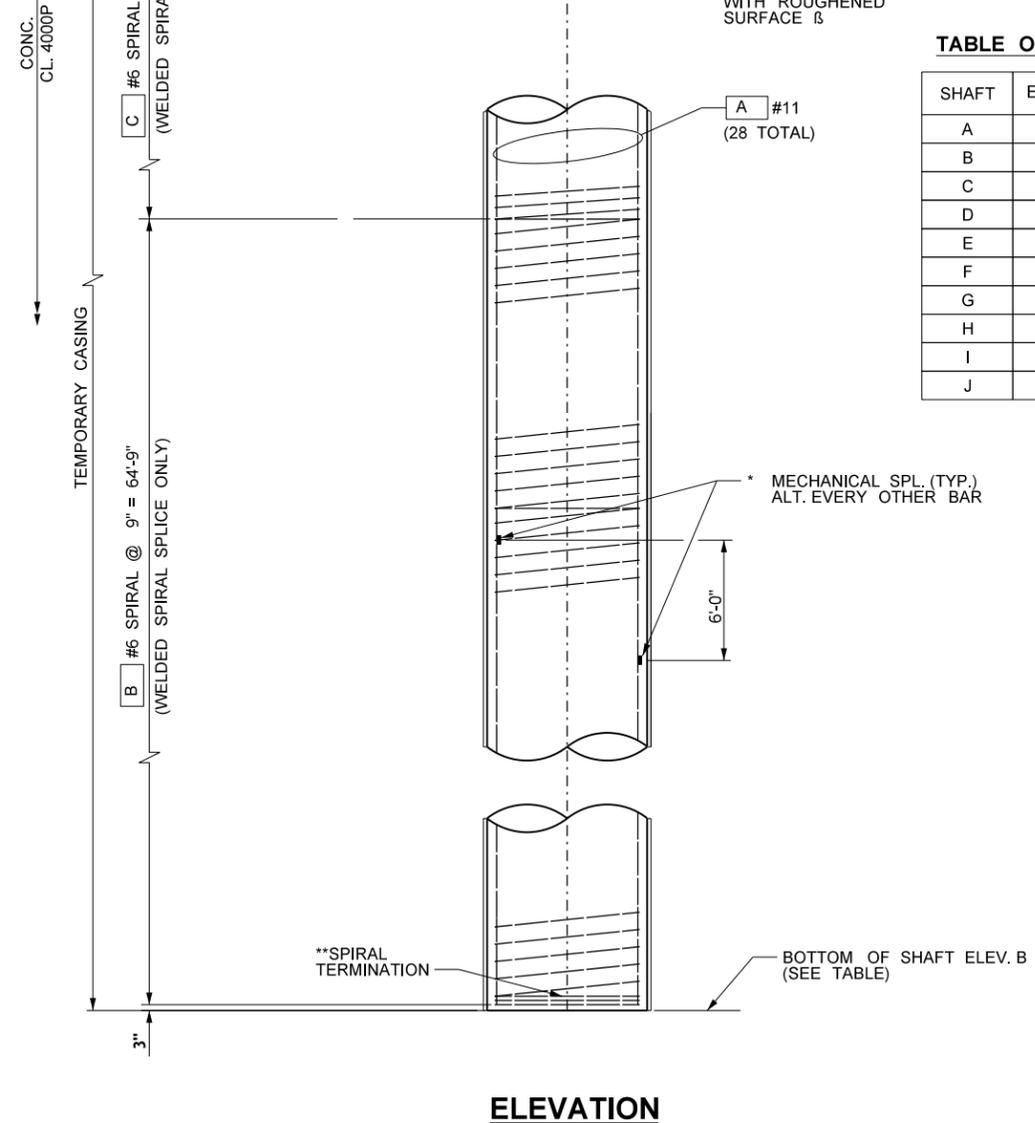
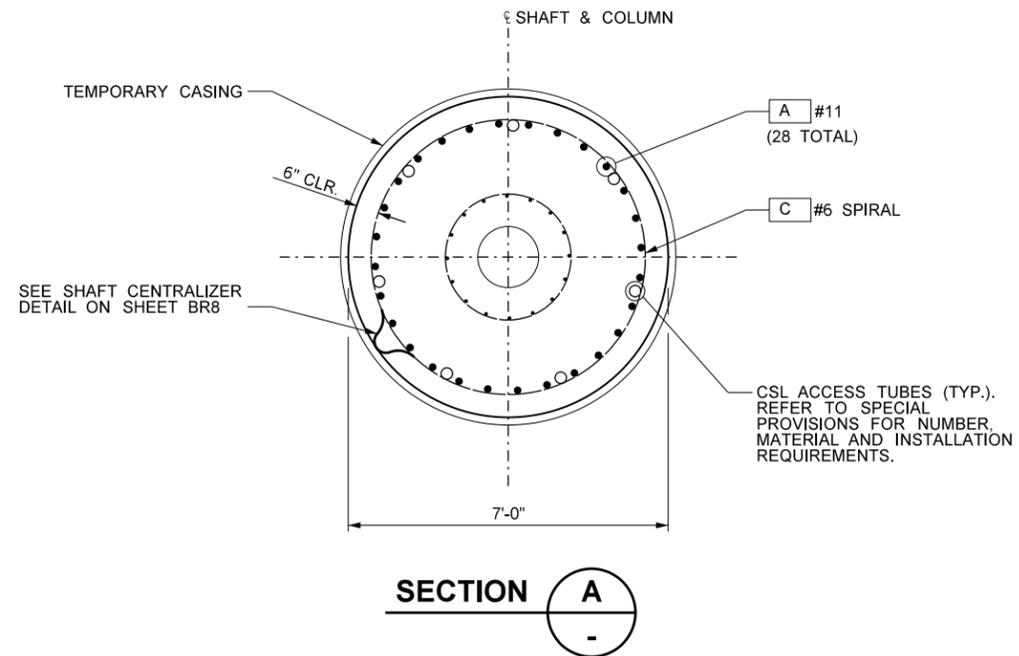


TABLE OF ELEVATIONS

SHAFT	ELEV. A	ELEV. B
A	66.4	-38.6
B	65.8	-39.2
C	65.3	-39.7
D	64.9	-40.1
E	64.4	-40.6
F	64.0	-41.0
G	63.5	-41.5
H	63.1	-41.9
I	62.7	-42.3
J	62.2	-42.8



ELEVATION

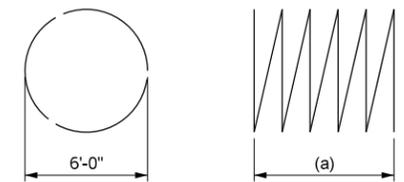
LEGEND

- * MECHANICAL SPLICE SHALL MEET THE REQUIREMENTS OF STD SPEC 6-02.3(24)F.
- ** SEE "SPIRAL TERMINATION DETAIL", SHEET BR8
- § REMOVE SEDIMENT LAITANCE AND WEAK CONCRETE TO SOUND CONCRETE PRIOR TO PLACING SHAFT CAP CONCRETE.

SHAFT BARLIST

ALL REINFORCING SHALL BE ASTM A706

MARK	SIZE	NO.	LENGTH	BEND TYPE	WT. (lbs)
A	#11	288	104'-9"	STRAIGHT	155,840
B	#6	10	64'-9"	SPIRAL	24,406
C	#6	10	39'-10 1/2"	SPIRAL	22,606



(a) - DETERMINE FROM PLANS
WEIGHT DOES NOT INCLUDE SPLICES

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svc\CADD\Bridg\100% Plans\BL 1598033_BG_SHAFT.dgn				FED.AID PROJ.NO.	
TIME 5:43:40 PM	REGION NO. 10	STATE WASH			
DATE 10/25/2012	JOB NUMBER				
PLOTTED BY valenalv	CONTRACT NO.		LOCATION NO.		
DESIGNED BY J. MERTH	REVISION	DATE	BY		
ENTERED BY C.D. CLARK					
CHECKED BY R. MURRAY					
PROJ. ENGR. R.A. LEWIS					
REGIONAL ADM. L. ENG					

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX



I-5		Plot 2
116TH ST NE		PLAN REF NO
INTERCHANGE IMPROVEMENTS		BR9
PIER 2 SHAFT		SHEET
		OF
		SHEETS

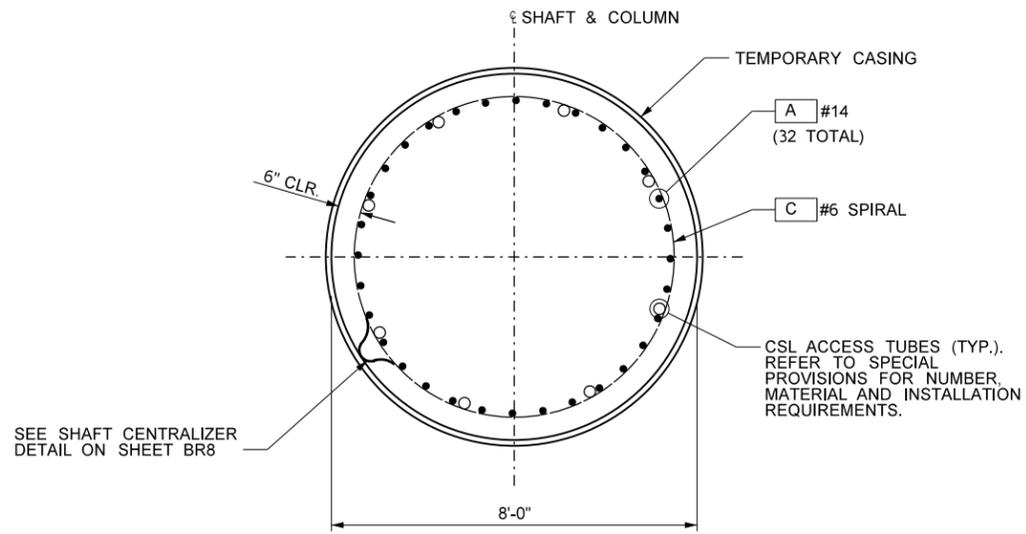
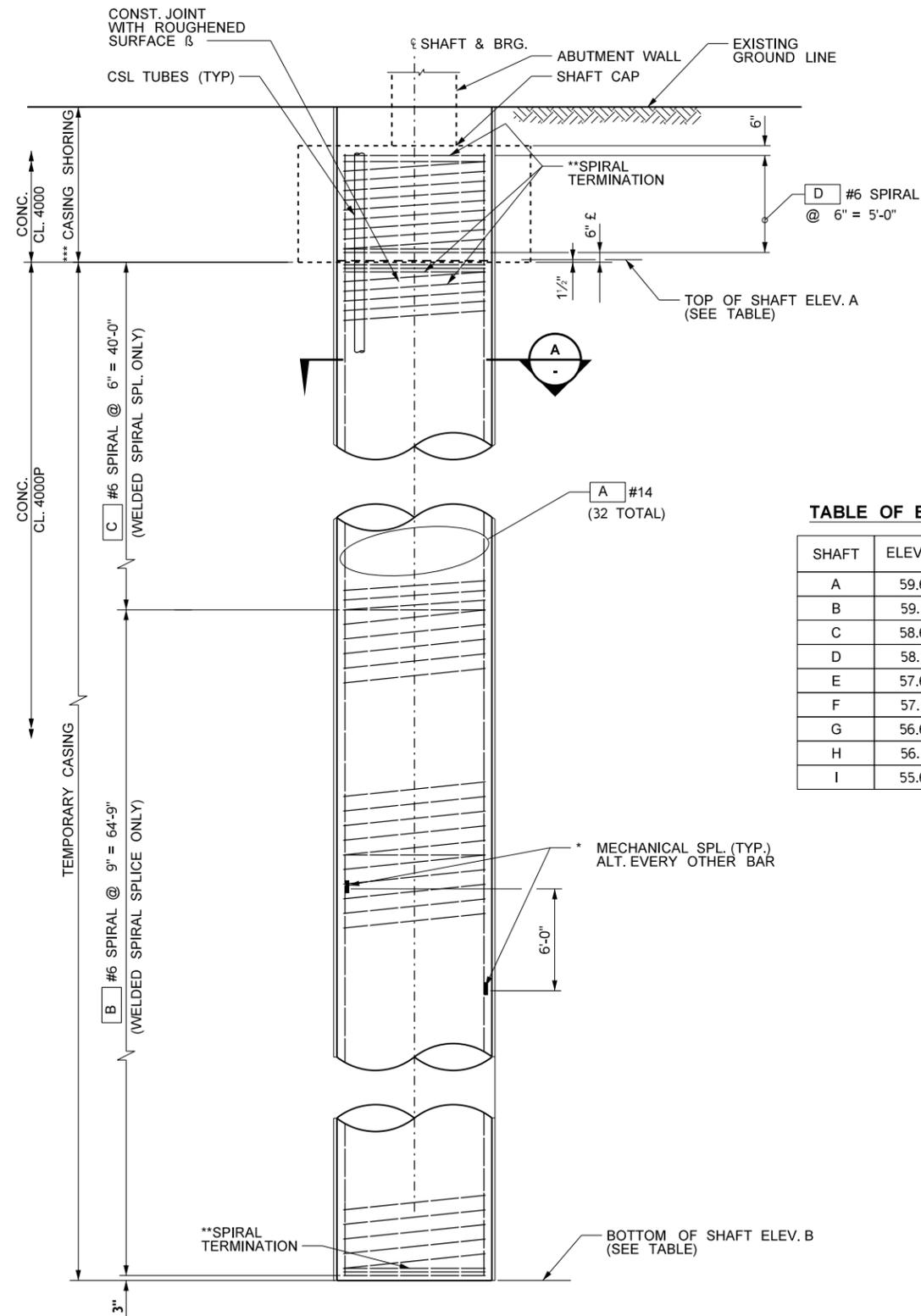


TABLE OF ELEVATIONS

SHAFT	ELEV. A	ELEV. B
A	59.6	-45.4
B	59.1	-45.9
C	58.6	-46.4
D	58.1	-46.9
E	57.6	-47.4
F	57.1	-47.9
G	56.6	-48.4
H	56.1	-48.9
I	55.6	-49.4

ELEVATION

SECTION A

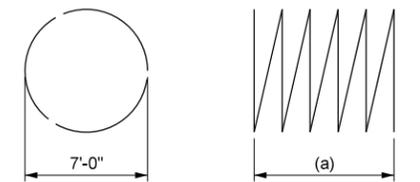
LEGEND

- * MECHANICAL SPLICE SHALL MEET THE REQUIREMENTS OF STD SPEC 6-02.3(24)F.
- ** SEE "SPIRAL TERMINATION DETAIL".
- *** CASING SHORING MAY BE DELETED PROVIDED THAT THE CONTRACTOR SHORES AND EXCAVATES FOR THE SHAFT CAP PRIOR TO THE SHAFT EXCAVATION.
- β REMOVE SEDIMENT LAITANCE AND WEAK CONCRETE TO SOUND CONCRETE PRIOR TO PLACING SHAFT CAP CONCRETE.
- £ PROVIDE 1/2" CLEAR FROM TOP OF SPIRAL TO LOWEST POINT OF CONSTRUCTION JOINT. PROVIDE 6" VERTICAL BREAK IN SPIRAL TO ALLOW PLACEMENT OF CAP BOTTOM MAT REINFORCEMENT.

SHAFT BARLIST

ALL REINFORCING SHALL BE ASTM A706

MARK	SIZE	NO.	LENGTH	BEND TYPE	WT. (lbs)
A	#14	288	110'-3"	STRAIGHT	242,893
B	#6	9	69'-9"	SPIRAL	25,660
C	#6	9	39'-10 1/2"	SPIRAL	23,770
D	#6	9	5'-0"	SPIRAL	2,971

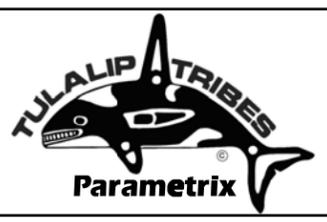


(a) - DETERMINE FROM PLANS
WEIGHT DOES NOT INCLUDE SPLICES

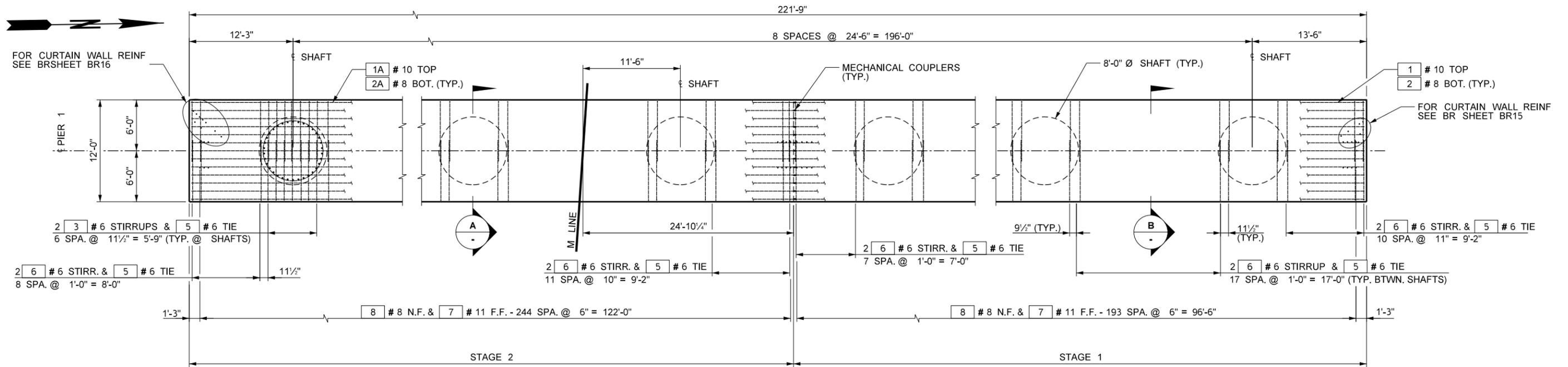
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DATE 10/25/2012	JOB NUMBER				
PLOTTED BY valenalv	CONTRACT NO.		LOCATION NO.		
DESIGNED BY J. MERTH	REVISION	DATE	BY		
ENTERED BY C.D. CLARK					
CHECKED BY R. MURRAY					
PROJ. ENGR. R.A. LEWIS					
REGIONAL ADM. L. ENG					

DATE _____ P.E. STAMP BOX

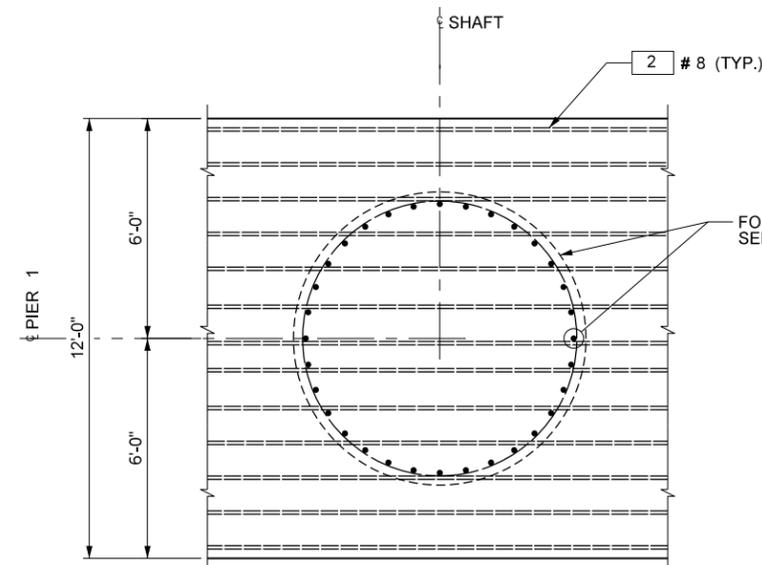
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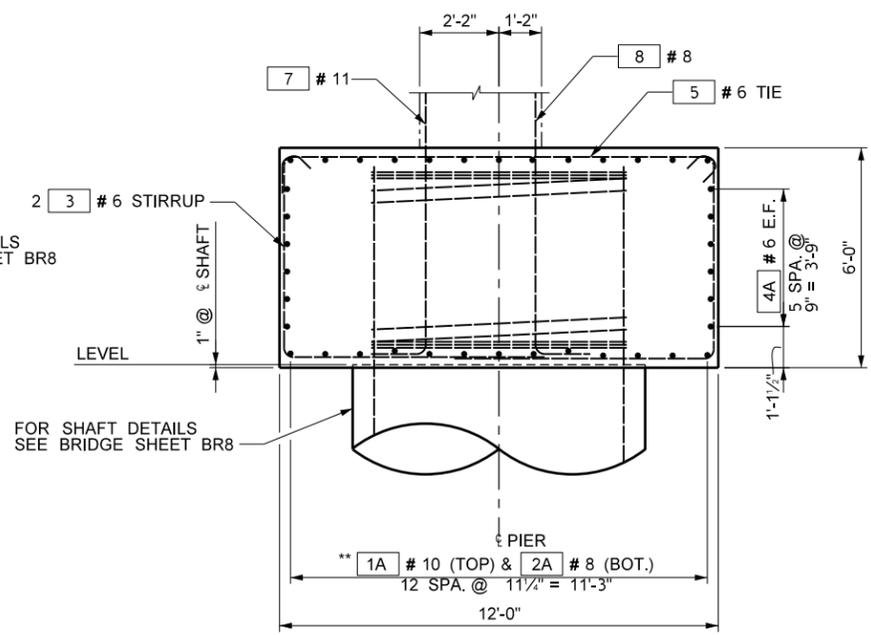
I-5		Plot 3
116TH ST NE		PLAN REF NO
INTERCHANGE IMPROVEMENTS		BR10
PIER 3 SHAFT		SHEET
		OF
		SHEETS



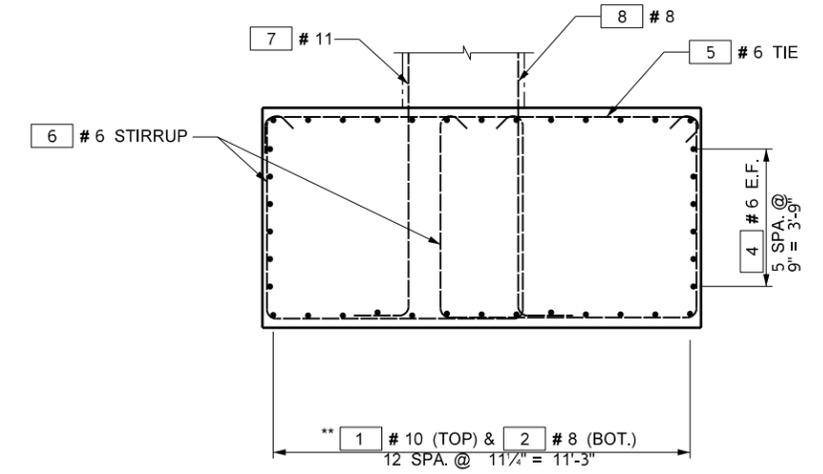
PLAN - PIER 1 SHAFT CAP
LOOKING BACK ON STATIONING



INTERFERENCE DETAIL



SECTION A

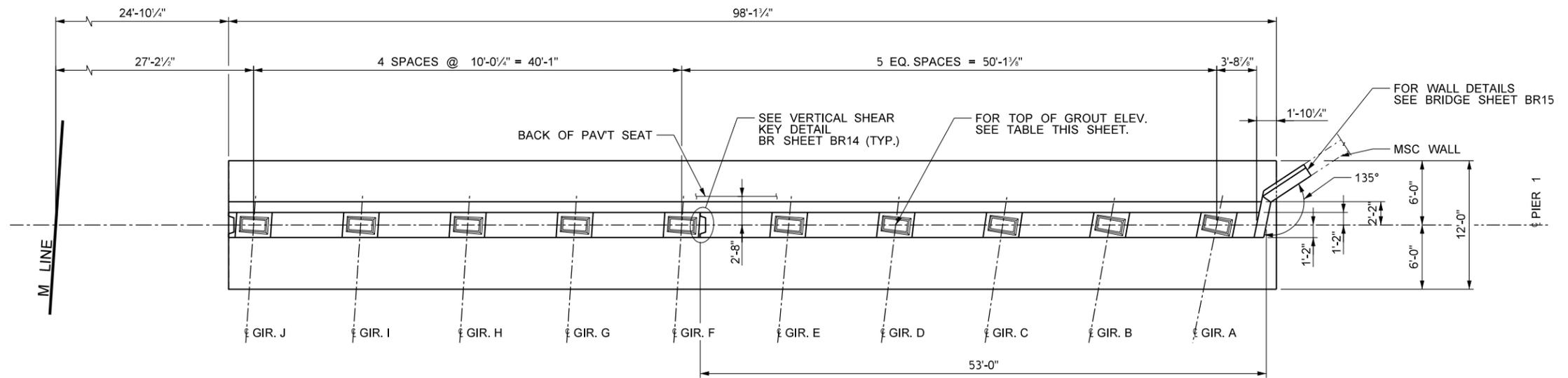


SECTION B

FOR INFORMATION NOT SHOWN SEE SECTION "A" THIS SHEET

** ADJUST SPACING OF BOTTOM MAT REINFORCEMENT AS NEEDED TO CLEAR VERTICAL SHAFT REINFORCEMENT SEE INTERFERENCE DIAGRAM THIS SHEET.

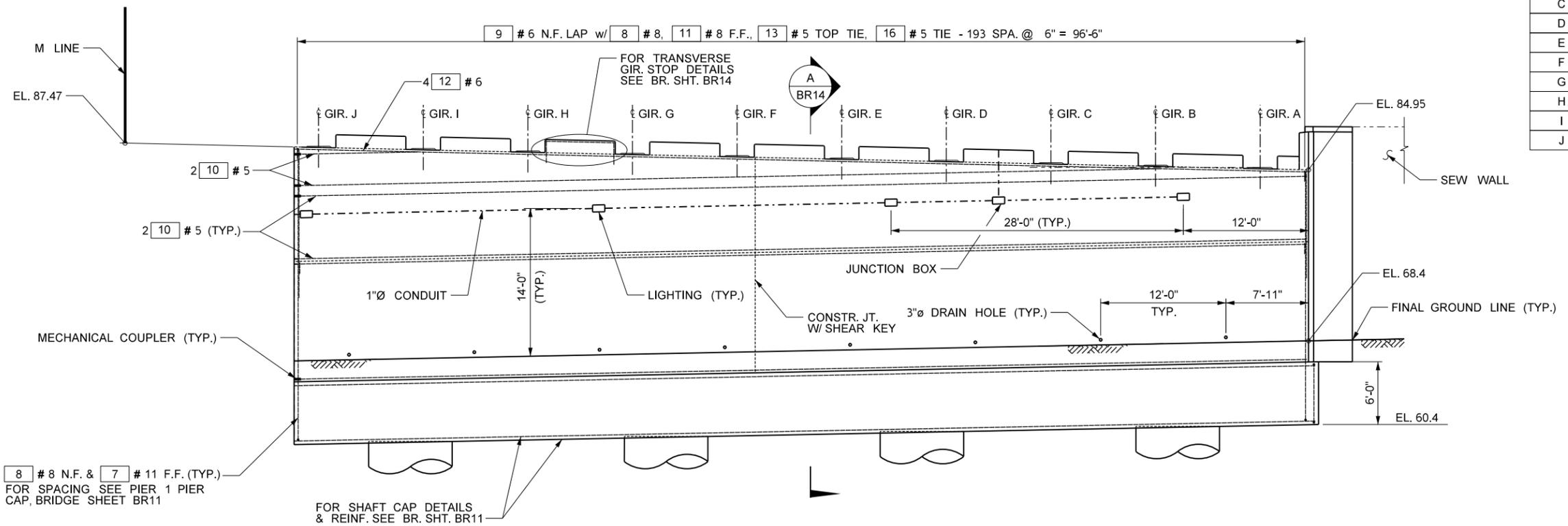
FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_PR1_CAP.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 1
TIME 5:44:55 PM	DATE 10/25/2012	10	WASH						PLAN REF NO
PLOTTED BY valenalv	DESIGNED BY J. MERTH	JOB NUMBER		LOCATION NO.				SHEET	
ENTERED BY V. SCHICCHI	CHECKED BY R. MURRAY	CONTRACT NO.						OF	
PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG	REVISION	DATE	BY				SHEETS	



PLAN - PIER 1 (STAGE 1)
LOOKING BACK ON STATIONING

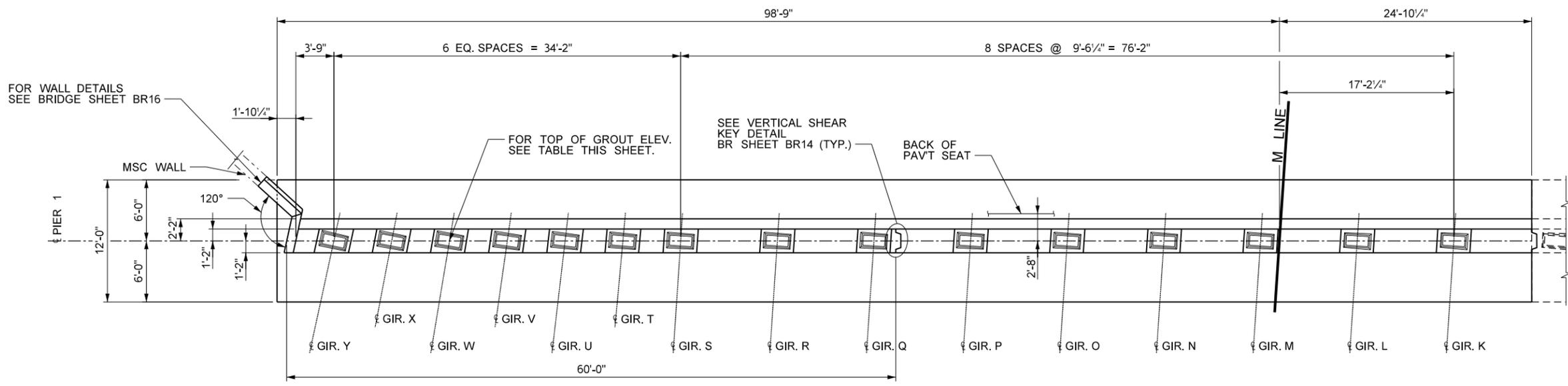
TOP OF GROUT PAD ELEVATIONS

GIRDER	ELEV.
A	85.18
B	85.38
C	85.59
D	85.80
E	86.00
F	86.21
G	86.42
H	86.62
I	86.83
J	87.04



ELEVATION - PIER 1 (STAGE 1)
LOOKING BACK ON STATIONING

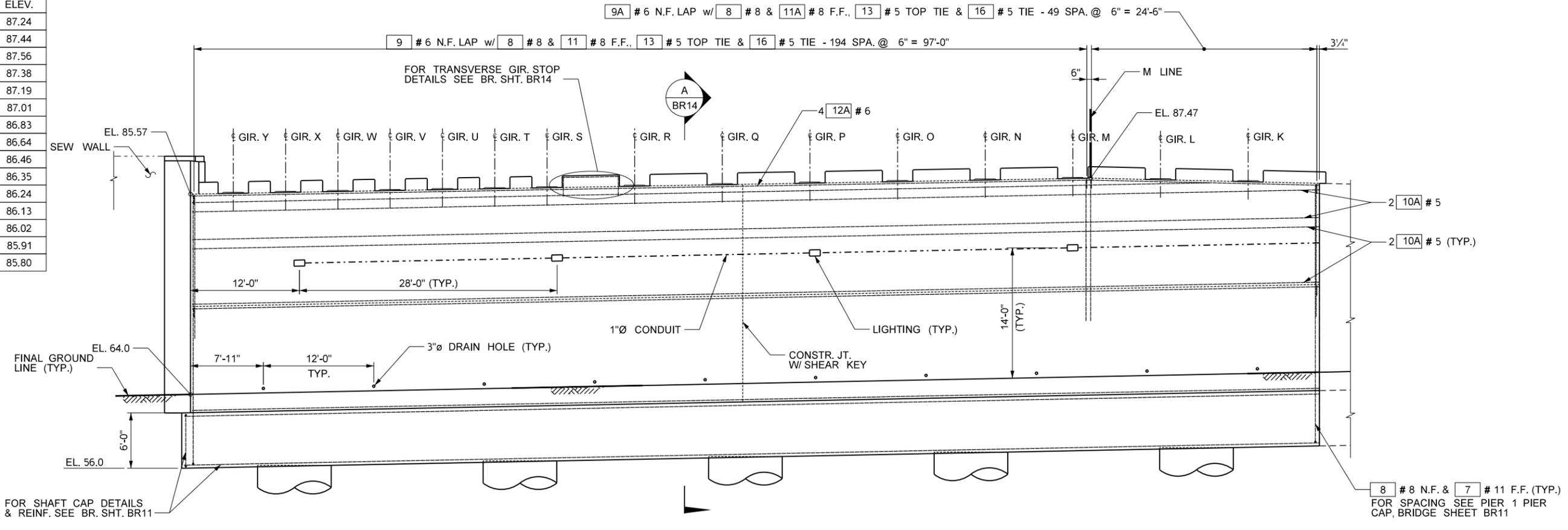
FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3\199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_PR1.dgn				REGION NO.	STATE	FED.AID PROJ.NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 1
TIME	2:57:07 PM				10	WASH					PLAN REF NO
DATE	10/31/2012				JOB NUMBER						BR12
PLOTTED BY	valenalv				CONTRACT NO.		LOCATION NO.				SHEET
DESIGNED BY	J. MERTH										OF
ENTERED BY	V. SCHICCHI										SHEETS
CHECKED BY	R. MURRAY										
PROJ. ENGR.	R.A. LEWIS										
REGIONAL ADM.	L. ENG				REVISION	DATE	BY	DATE	DATE		



PLAN - PIER 1 (STAGE 2)
LOOKING BACK ON STATIONING

TOP OF GROUT PAD ELEVATIONS

GIRDER	ELEV.
K	87.24
L	87.44
M	87.56
N	87.38
O	87.19
P	87.01
Q	86.83
R	86.64
S	86.46
T	86.35
U	86.24
V	86.13
W	86.02
X	85.91
Y	85.80

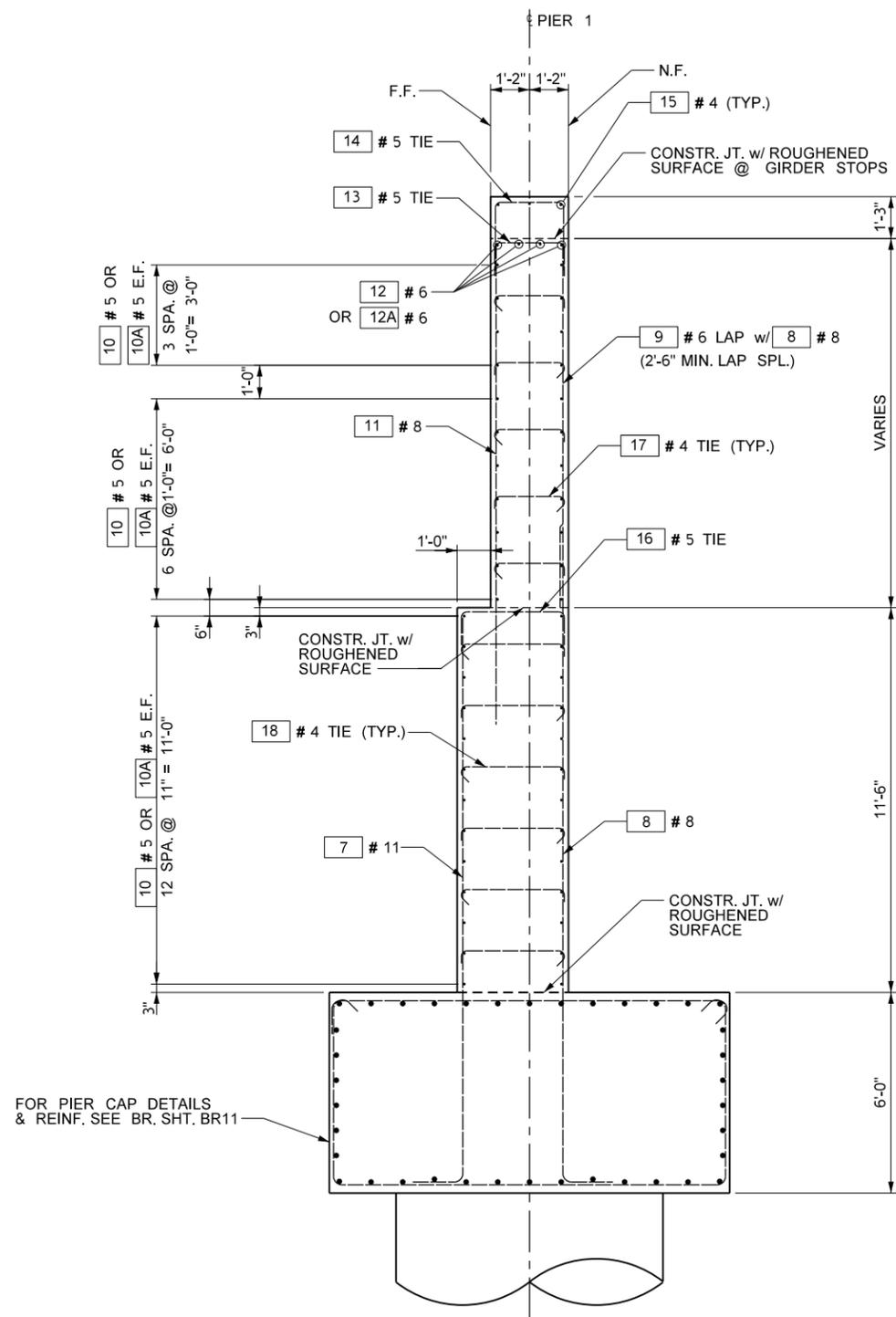


ELEVATION - PIER 1 (STAGE 2)
LOOKING BACK ON STATIONING

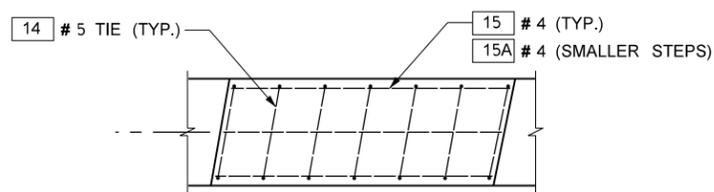
FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_PR1.dgn				REGION NO. STATE		FED.AID PROJ.NO.		Plot 2	
TIME 2:57:58 PM				10 WASH				PLAN REF NO BR13	
DATE 10/31/2012				JOB NUMBER				SHEET	
PLOTTED BY valenalv				CONTRACT NO.		LOCATION NO.		OF	
DESIGNED BY J. MERTH								PIER 1 ELEVATION - STAGE 2	
ENTERED BY V. SCHICCHI								SHEETS	
CHECKED BY R. MURRAY									
PROJ. ENGR. R.A. LEWIS									
REGIONAL ADM. L. ENG				REVISION		DATE BY			

ROBERT H. MURRAY
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
14089

TULALIP TRIBES
Parametrix

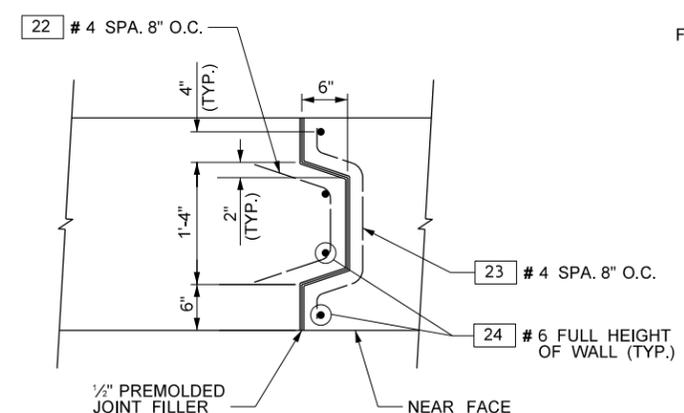


SECTION A



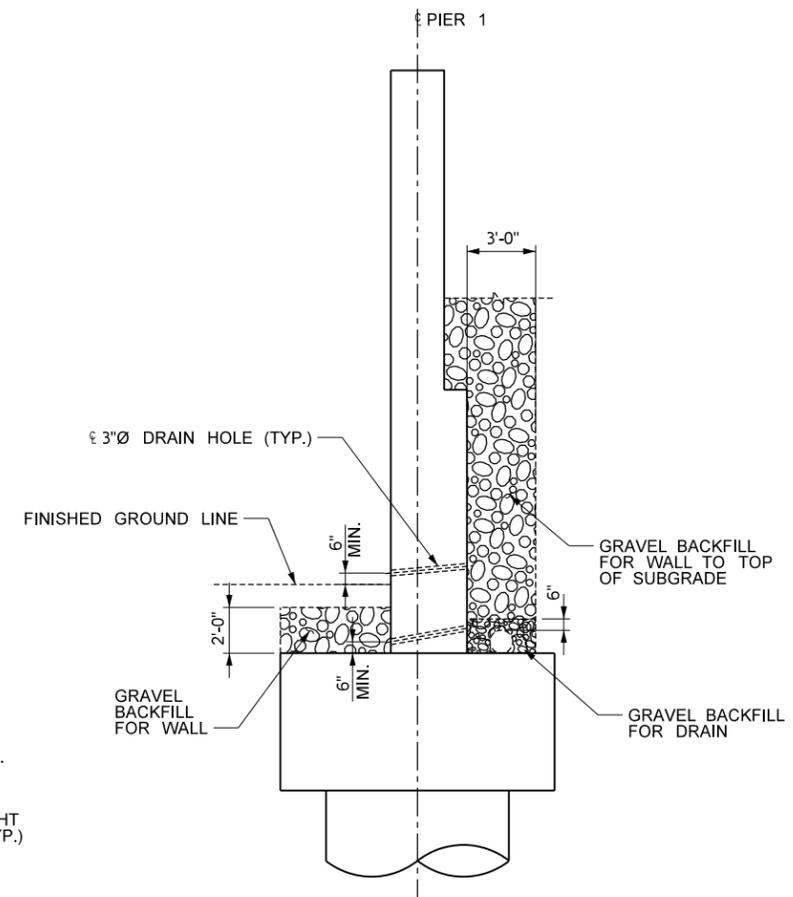
TRANSVERSE GIRDER STOP DETAIL

SEE BRIDGE SHEET BR31 FOR DIMENSIONS



VERTICAL SHEAR KEY DETAIL

NOTE:
FOR TIE SPACING AND TIE BAR DETAILS
SEE BRIDGE SHEET BR28.



DRAINAGE DETAIL

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_PR1.dgn			REGION NO.	STATE	FED.AID PROJ.NO.
TIME	7:03:08 AM			10	WASH	
DATE	10/31/2012			JOB NUMBER		
PLOTTED BY	valenalv			CONTRACT NO.		LOCATION NO.
DESIGNED BY	J. MERTH					
ENTERED BY	V. SCHICCHI					
CHECKED BY	R. MURRAY					
PROJ. ENGR.	R.A. LEWIS					
REGIONAL ADM.	L. ENG			REVISION	DATE	BY

DATE _____ P.E. STAMP BOX

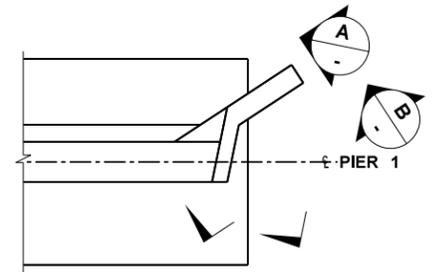
DATE _____ P.E. STAMP BOX



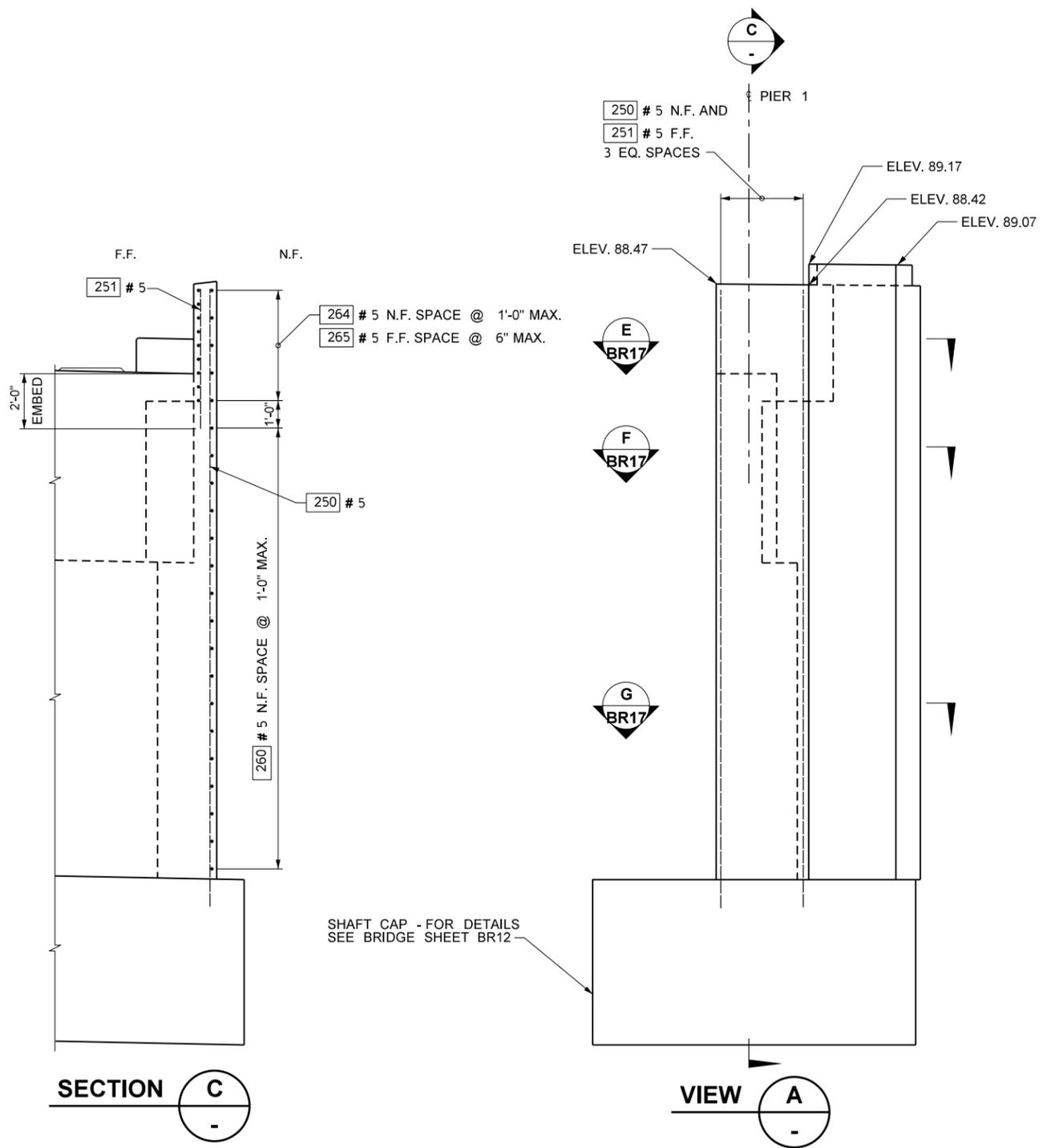
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

PIER 1 SECTION

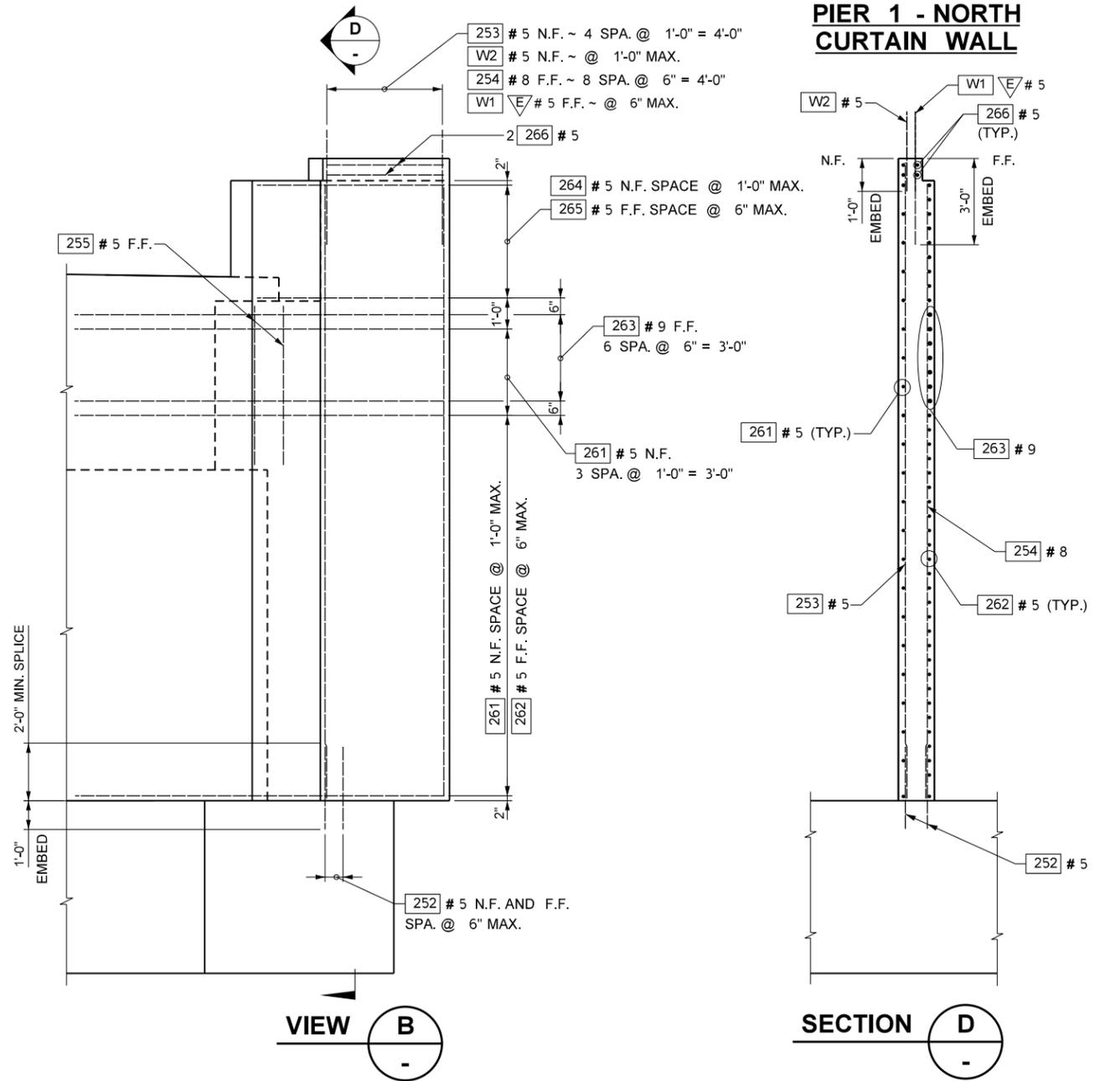
Plot 3
PLAN REF NO
BR14
SHEET
OF
SHEETS



PIER 1 - NORTH CURTAIN WALL



CURTAIN WALL REINFORCEMENT
NOT SHOWN FOR CLARITY SEE VIEW B



FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3\99Svc\CADD\Bridge\100% Plans\BL 1598033_BG_PR1_WALLS.dgn				REGION NO. STATE		FED.AID PROJ.NO.		Plot 1	
TIME 7:46:01 AM				10 WASH				PLAN REF NO BR15	
DATE 10/31/2012				JOB NUMBER				SHEET	
PLOTTED BY valenalv				CONTRACT NO.		LOCATION NO.		OF	
DESIGNED BY J. MERTH								SHEETS	
ENTERED BY V. SCHICCHI									
CHECKED BY									
PROJ. ENGR.									
REGIONAL ADM. L. ENG				REVISION		DATE BY			

DATE

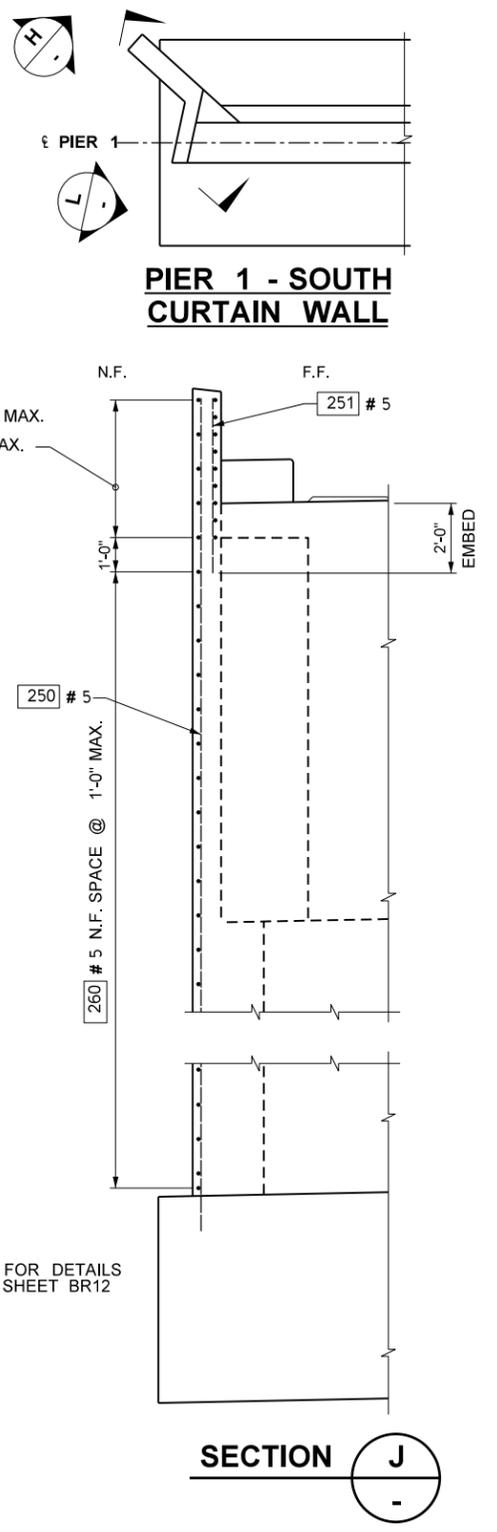
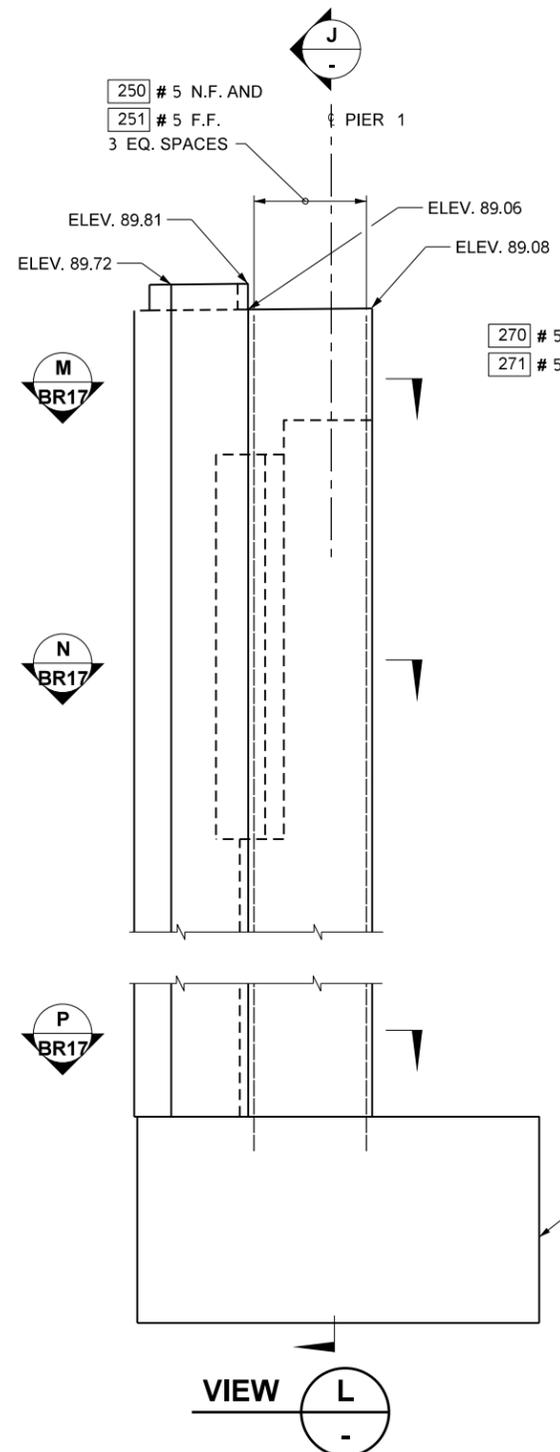
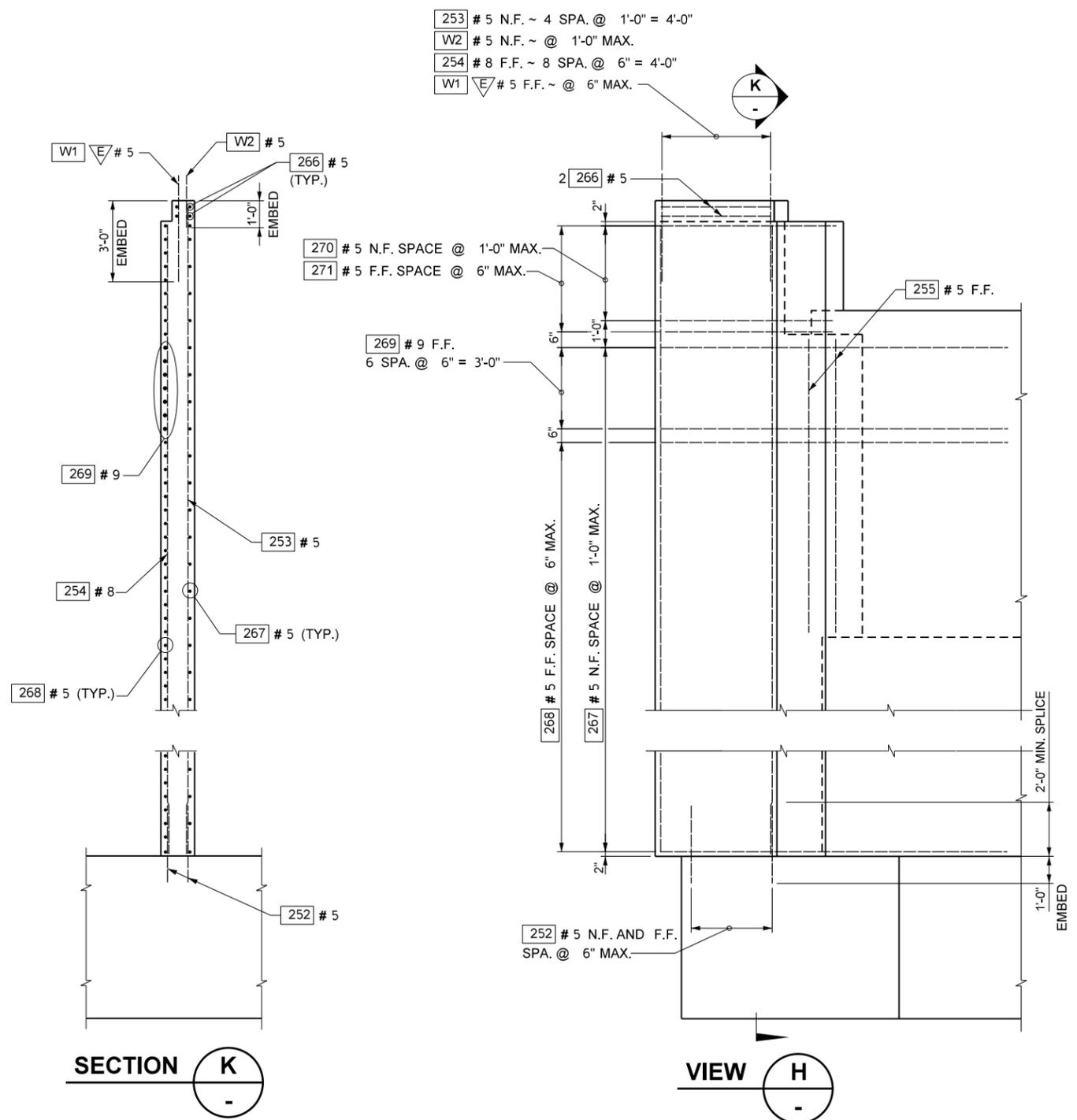
P.E. STAMP BOX

DATE

P.E. STAMP BOX

I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

PIER 1 CURTAIN WALL NORTH



PIER 1 - SOUTH CURTAIN WALL

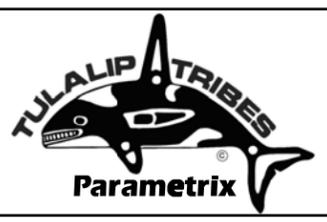
CURTAIN WALL REINFORCEMENT NOT SHOWN FOR CLARITY SEE VIEW H

SHAFT CAP - FOR DETAILS SEE BRIDGE SHEET BR12

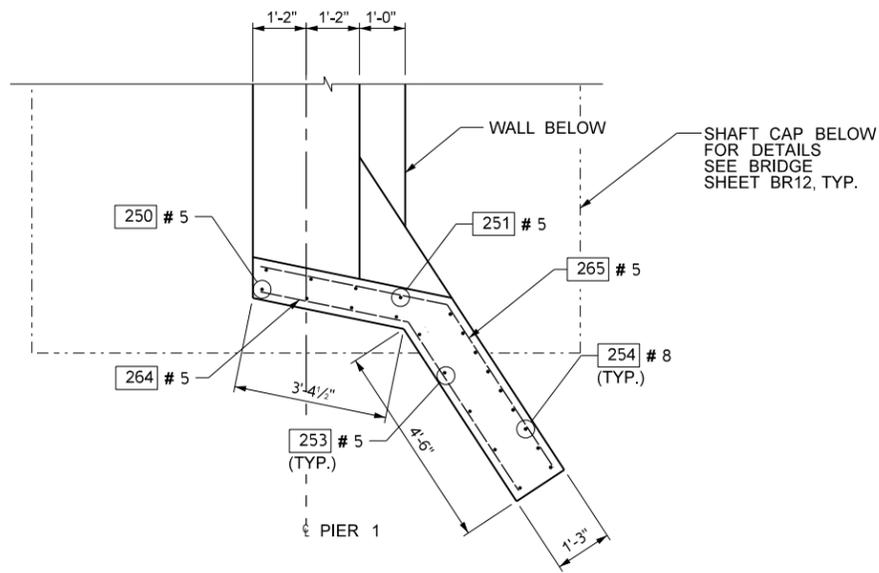
FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_PR1_WALLS.dgn			
TIME	7:45:23 AM			
DATE	10/31/2012			
PLOTTED BY	valenalv			
DESIGNED BY	J. MERTH			
ENTERED BY	V. SCHICCHI			
CHECKED BY				
PROJ. ENGR.				
REGIONAL ADM.	L. ENG	REVISION	DATE	BY

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

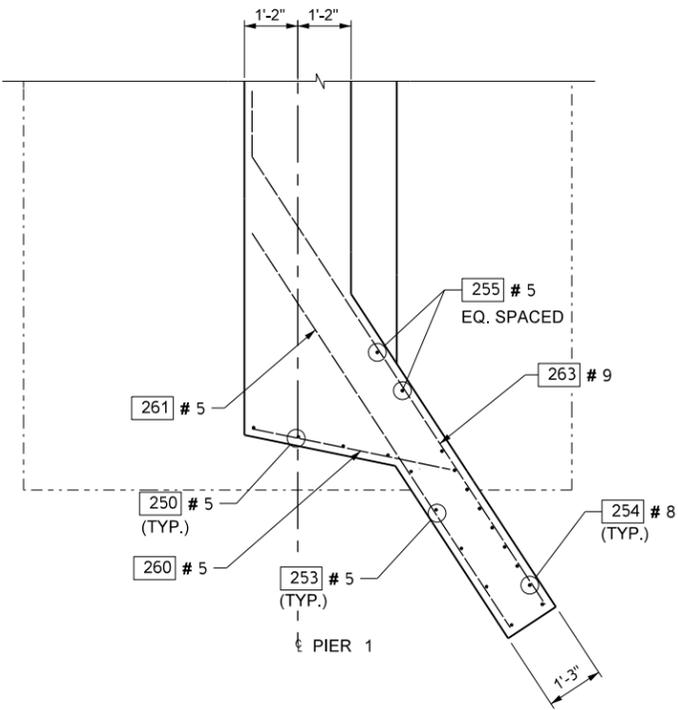
DATE	P.E. STAMP BOX	DATE	P.E. STAMP BOX
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I-5	Plot 2
116TH ST NE	PLAN REF NO
INTERCHANGE IMPROVEMENTS	BR16
PIER 1 CURTAIN WALL SOUTH	SHEET
	OF
	SHEETS

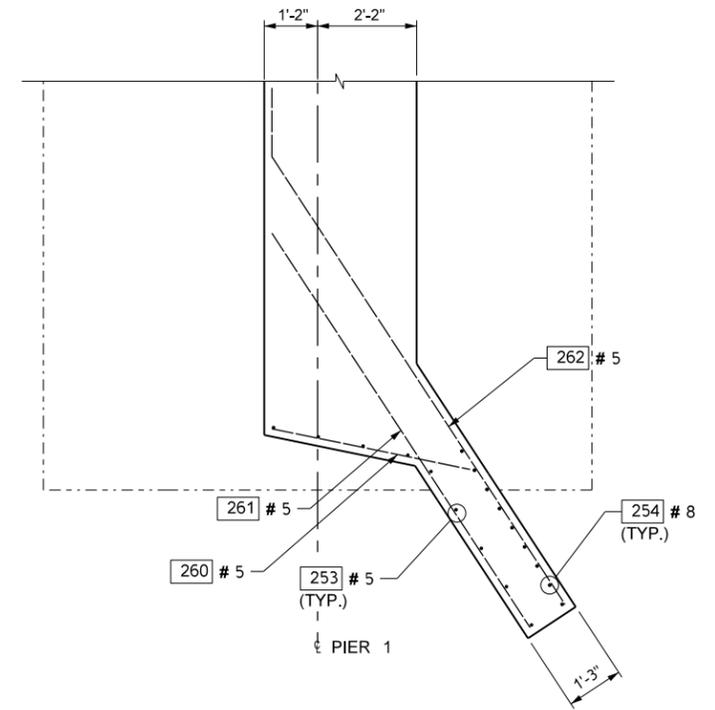


SECTION E
BR15



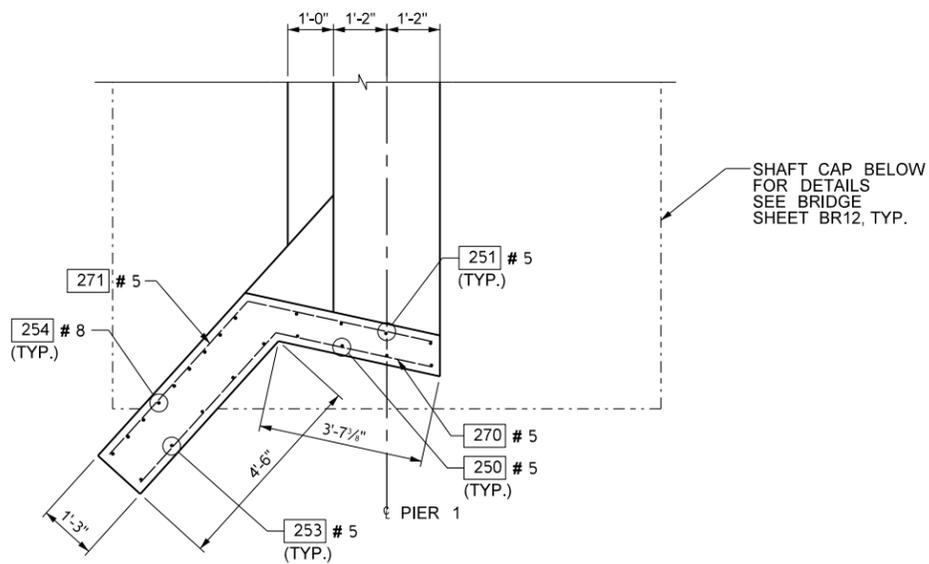
SECTION F
BR15

ABUTMENT REINFORCEMENT NOT SHOWN FOR CLARITY

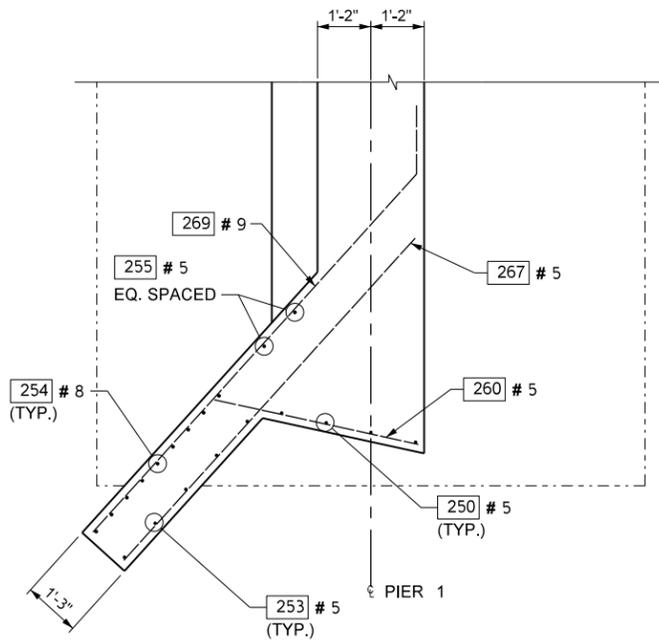


SECTION G
BR15

ABUTMENT REINFORCEMENT NOT SHOWN FOR CLARITY

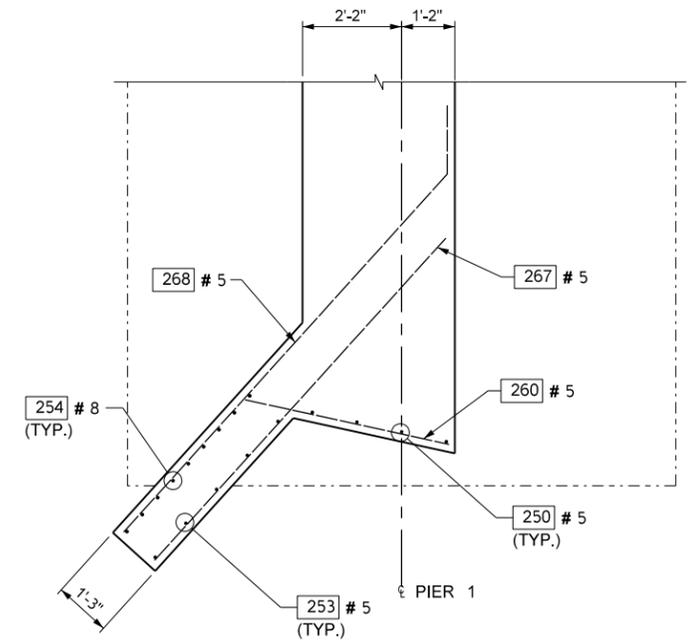


SECTION M
BR16



SECTION N
BR16

ABUTMENT REINFORCEMENT NOT SHOWN FOR CLARITY



SECTION P
BR16

ABUTMENT REINFORCEMENT NOT SHOWN FOR CLARITY

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADD\Bridge\100% Plans\1598033_BG_PR1_WALLS.dgn			
TIME	5:48:17 PM			
DATE	10/25/2012			
PLOTTED BY	valenalv			
DESIGNED BY	J. MERTH			
ENTERED BY	V. SCHICCHI			
CHECKED BY				
PROJ. ENGR.				
REGIONAL ADM.	L. ENG	REVISION	DATE	BY
REGION NO.	10	STATE	WASH	FED.AID PROJ.NO.
JOB NUMBER				
CONTRACT NO.	LOCATION NO.			

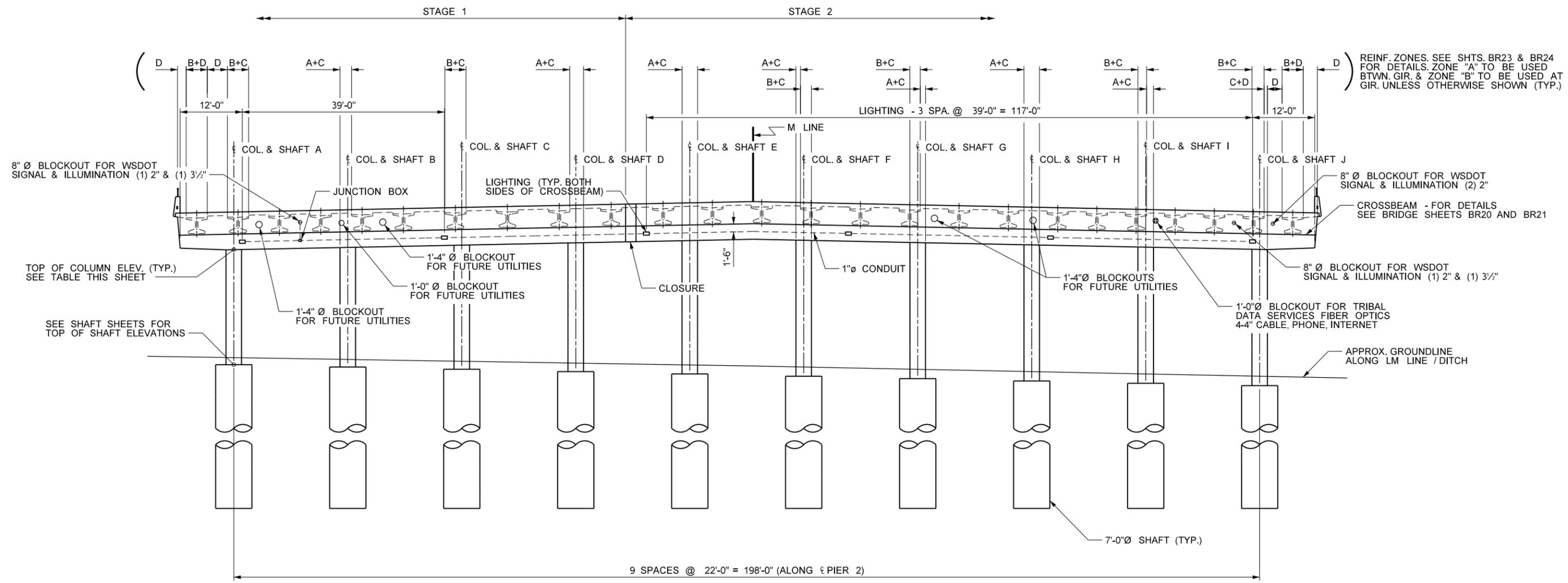
DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
PIER 1 CURTAIN WALL DETAILS

Plot 3
PLAN REF NO
BR17
SHEET
OF
SHEETS



REINF. ZONES. SEE SHTS. BR23 & BR24 FOR DETAILS. ZONE "A" TO BE USED BTWN. GIR. & ZONE "B" TO BE USED AT GIR. UNLESS OTHERWISE SHOWN (TYP.)

8" Ø BLOCKOUT FOR WSDOT SIGNAL & ILLUMINATION (1) 2" & (1) 3 1/2"

TOP OF COLUMN ELEV. (TYP.) SEE TABLE THIS SHEET

SEE SHAFT SHEETS FOR TOP OF SHAFT ELEVATIONS

8" Ø BLOCKOUT FOR WSDOT SIGNAL & ILLUMINATION (2) 2"

CROSSBEAM - FOR DETAILS SEE BRIDGE SHEETS BR20 AND BR21

8" Ø BLOCKOUT FOR WSDOT SIGNAL & ILLUMINATION (1) 2" & (1) 3 1/2"

1'-0" Ø BLOCKOUT FOR TRIBAL DATA SERVICES FIBER OPTICS 4-4" CABLE, PHONE, INTERNET

APPROX. GROUNDLINE ALONG LM LINE / DITCH

9 SPACES @ 22'-0" = 198'-0" (ALONG § PIER 2)

TOP OF COLUMNS ELEVATIONS

COLUMN	ELEV.
A	82.96
B	83.40
C	83.84
D	84.28
E	84.72
F	84.76
G	84.32
H	83.88
I	83.44
J	83.02

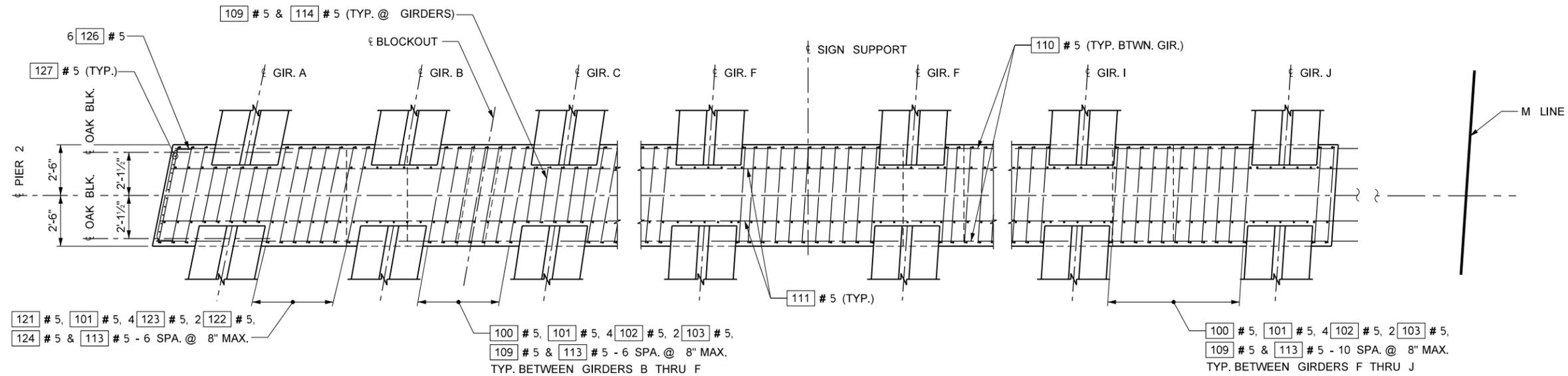
ELEVATION - PIER 2

FOR UTILITY BLOCKOUT DETAILS SEE BRIDGE SHEET BR26

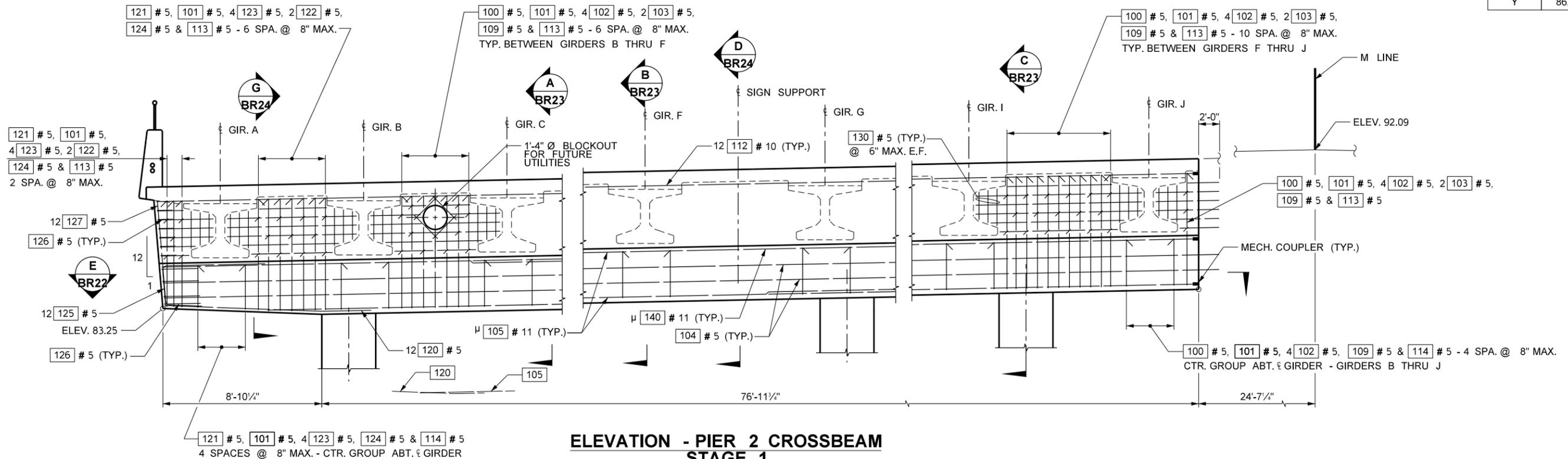
FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3\99Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_PR2_GEO.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	PLAN REF NO
TIME 5:48:57 PM	DATE 10/25/2012	10	WASH						BR18
PLOTTED BY valenalv	DESIGNED BY J. MERTH	JOB NUMBER		LOCATION NO.				SHEET	
ENTERED BY V. SCHICCHI	CHECKED BY R. MURRAY	CONTRACT NO.						OF	
PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG	REVISION	DATE	BY				SHEETS	

TOP OF OAK BLOCK ELEVATIONS

GIRDER	ELEV. SPAN 1	ELEV. SPAN 2
A	86.06	86.08
B	86.22	86.24
C	86.38	86.39
D	86.54	86.55
E	86.70	86.71
F	86.86	86.87
G	87.06	87.07
H	87.26	87.27
I	87.46	87.47
J	87.66	87.67
K	87.87	87.87
L	88.06	88.06
M	88.17	88.17
N	87.98	87.98
O	87.79	87.79
P	87.60	87.60
Q	87.41	87.41
R	87.22	87.22
S	87.03	87.03
T	86.88	86.88
U	86.73	86.73
V	86.58	86.57
W	86.43	86.42
X	86.28	86.27
Y	86.13	86.11



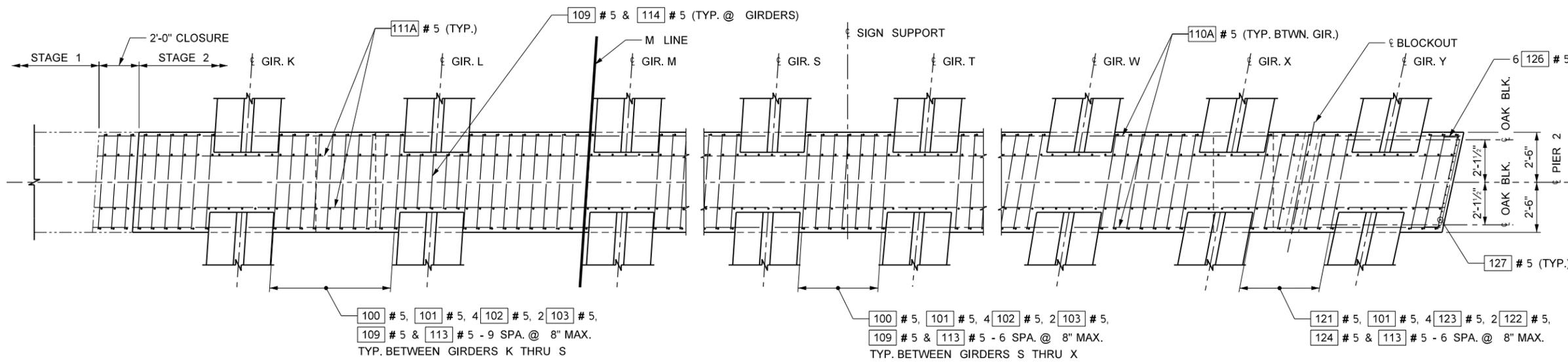
**PLAN - PIER 2 CROSSBEAM
STAGE 1**



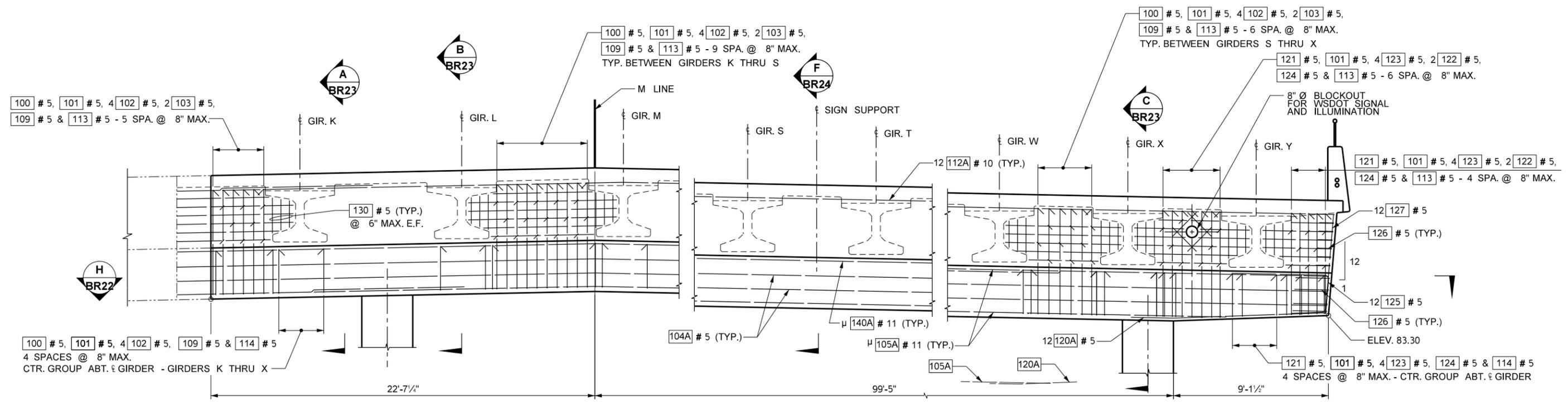
**ELEVATION - PIER 2 CROSSBEAM
STAGE 1**

μ SPLICES TO BE MIDWAY BETWEEN COLUMNS TOP MAT AND OVER COLUMNS BOTTOM MAT IF NEEDED.

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADD\Bridg\100% Plans\BL 1598033_BG_PR2_XB.dgn		REGION NO. 10		STATE WASH		FED.AID PROJ.NO.		ROBERT H. MURRAY PROFESSIONAL ENGINEER NO. 4089		TULALIP TRIBES Parametrix		I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 1 PLAN REF NO BR20	
TIME 7:12:14 AM	DATE 10/31/2012	PLOTTED BY valenalv	DESIGNED BY J. MERTH	ENTERED BY V. SCHICCHI	CHECKED BY R. MURRAY	PROJ. ENGR. R.A. LEWIS	REGIONAL ADM.	REVISION	DATE	BY	DATE	DATE	PIER 2 CROSSBEAM - STAGE 1		SHEET OF SHEETS



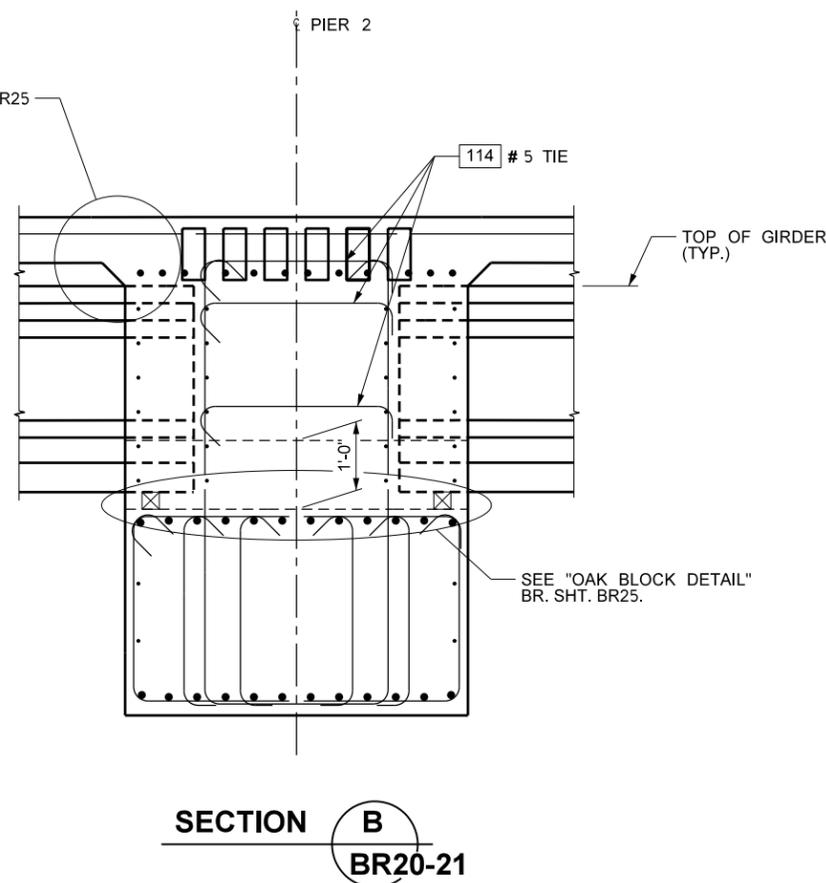
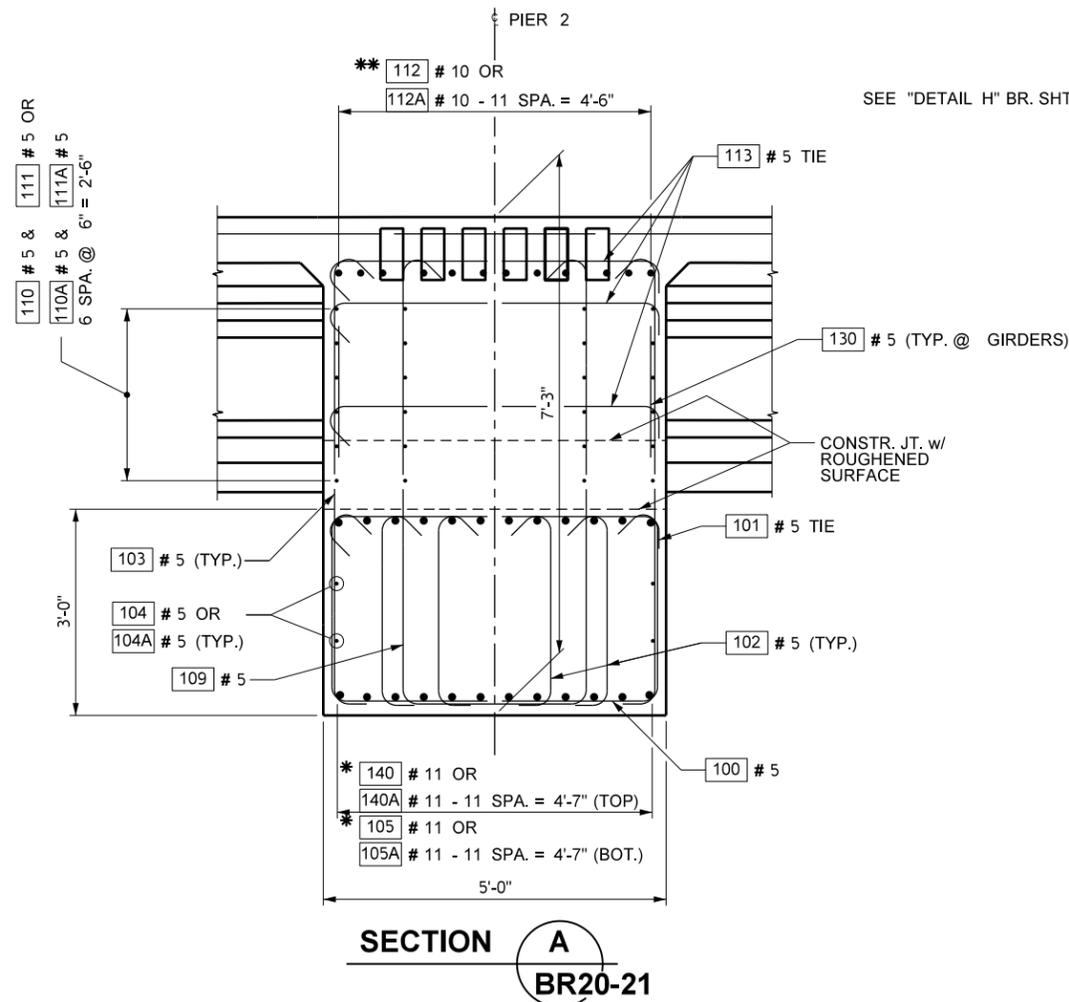
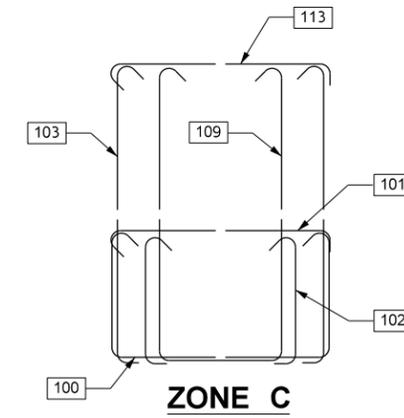
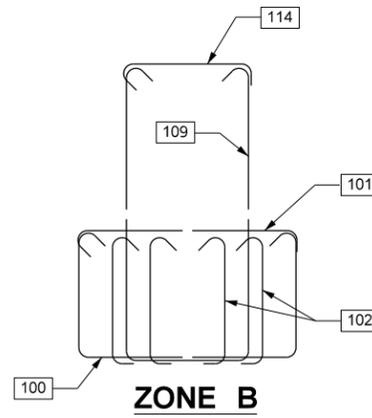
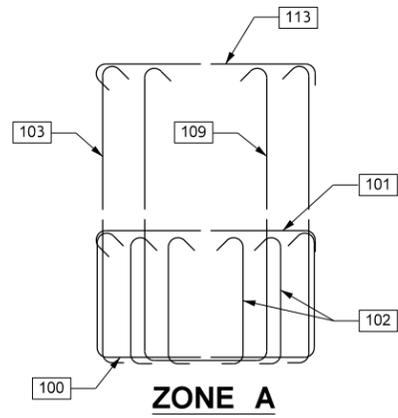
**PLAN - PIER 2 CROSSBEAM
STAGE 2**



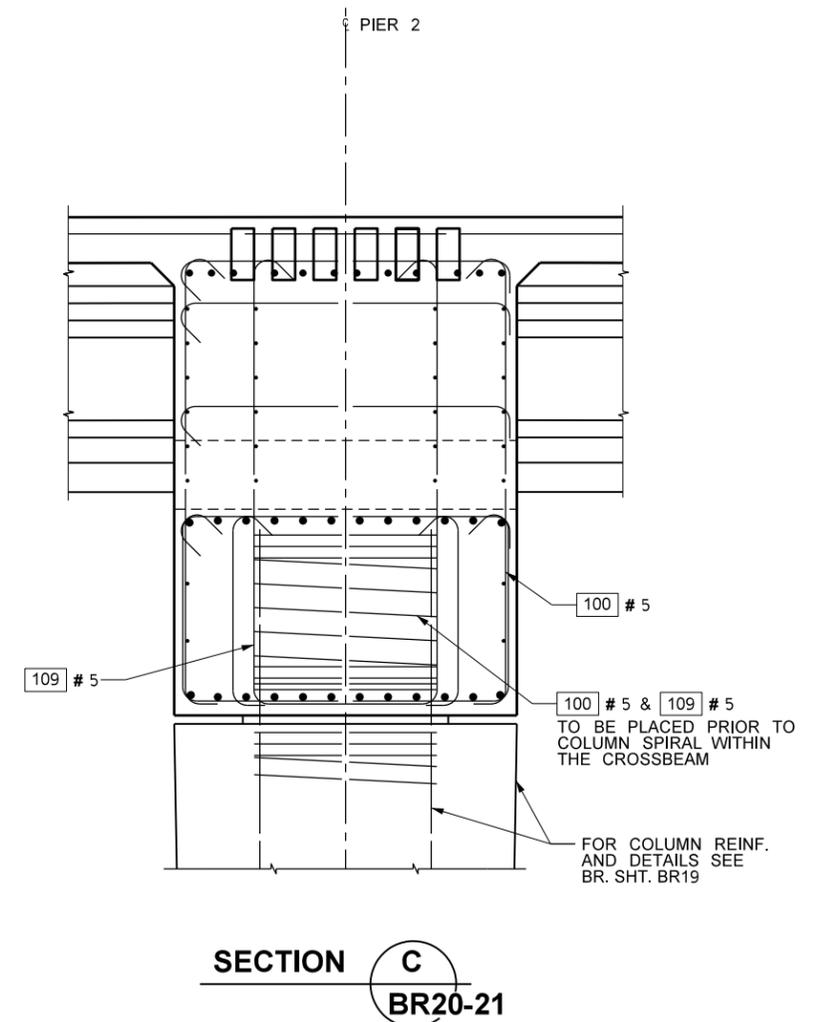
**ELEVATION - PIER 2 CROSSBEAM
STAGE 2**

μ SPLICES TO BE BETWEEN COLUMNS TOP MAT AND OVER COLUMNS BOTTOM MAT IF NEEDED.

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_PR2_XB.dgn		REGION NO. STATE		FED.AID PROJ.NO.		ROBERT H. MURRAY STATE OF WASHINGTON PROFESSIONAL ENGINEER 4089		TULALIP TRIBES Parametrix		I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 2 PLAN REF NO BR21	
TIME 5:51:00 PM		10	WASH			DATE		DATE		PIER 2 CROSSBEAM - STAGE 2		SHEET	
DATE 10/25/2012		JOB NUMBER		LOCATION NO.		DATE		DATE		PIER 2 CROSSBEAM - STAGE 2		OF	
PLOTTED BY valenalv		CONTRACT NO.		LOCATION NO.		DATE		DATE		PIER 2 CROSSBEAM - STAGE 2		SHEETS	
DESIGNED BY J. MERTH		CONTRACT NO.		LOCATION NO.		DATE		DATE		PIER 2 CROSSBEAM - STAGE 2		SHEETS	
ENTERED BY V. SCHICCHI		CONTRACT NO.		LOCATION NO.		DATE		DATE		PIER 2 CROSSBEAM - STAGE 2		SHEETS	
CHECKED BY R. MURRAY		CONTRACT NO.		LOCATION NO.		DATE		DATE		PIER 2 CROSSBEAM - STAGE 2		SHEETS	
PROJ. ENGR. R.A. LEWIS		CONTRACT NO.		LOCATION NO.		DATE		DATE		PIER 2 CROSSBEAM - STAGE 2		SHEETS	
REGIONAL ADM.	REVISION	DATE	BY	CONTRACT NO.		LOCATION NO.		DATE		PIER 2 CROSSBEAM - STAGE 2		SHEETS	



FOR DIMENSIONS, CALLOUTS AND INFORMATION
NOT SHOWN, SEE "SECTION A" THIS SHEET.



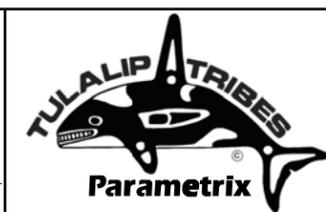
FOR DIMENSIONS, CALLOUTS AND INFORMATION
NOT SHOWN, SEE "SECTION A" THIS SHEET.

- * SEE "INTERFERENCE AT COLUMN" DETAIL, BR. SHT. BR25
- ** SEE "INTERFERENCE AT SIGN SUPPORT" DETAIL, BR. SHT. BR25

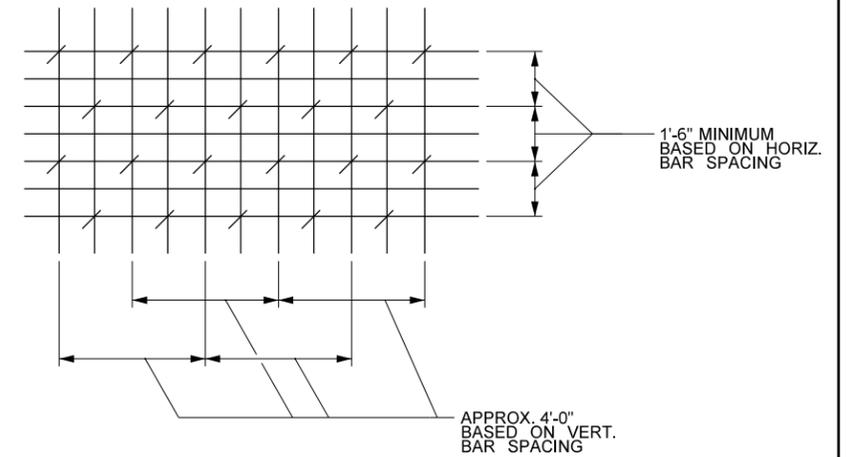
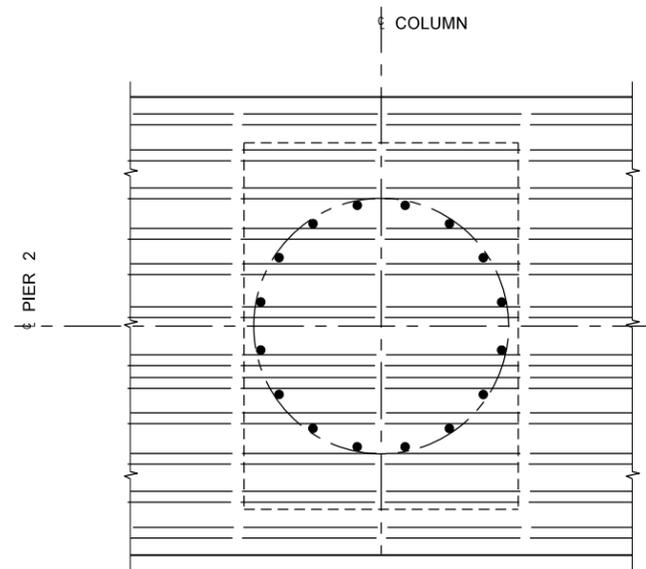
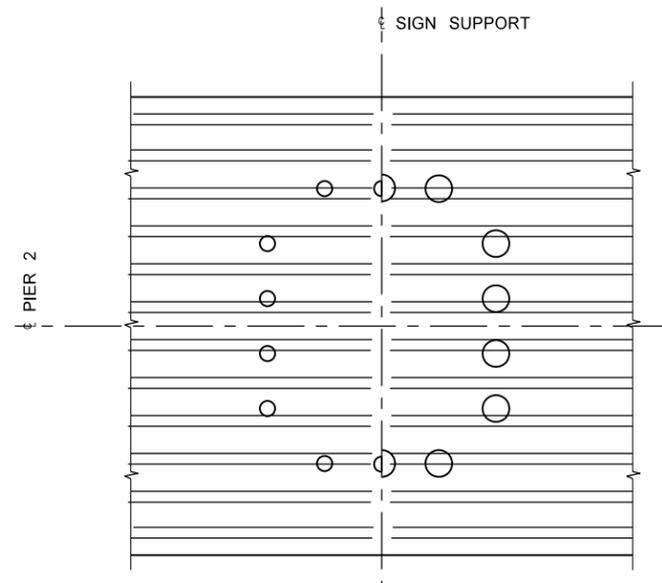
FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3199Svc\cadd\bridge\100% Plans\BL 1598033_BG_PR2_XB.dgn				FED.AID PROJ.NO.	
TIME 7:15:10 AM	REGION NO. 10	STATE WASH			
DATE 10/31/2012	JOB NUMBER				
PLOTTED BY valenalv	CONTRACT NO.		LOCATION NO.		
DESIGNED BY J. MERTH	DATE		BY		
ENTERED BY V. SCHICCHI	REVISION				
CHECKED BY R. MURRAY	DATE		BY		
PROJ. ENGR. R.A. LEWIS	REVISION				
REGIONAL ADM.	DATE		BY		

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX

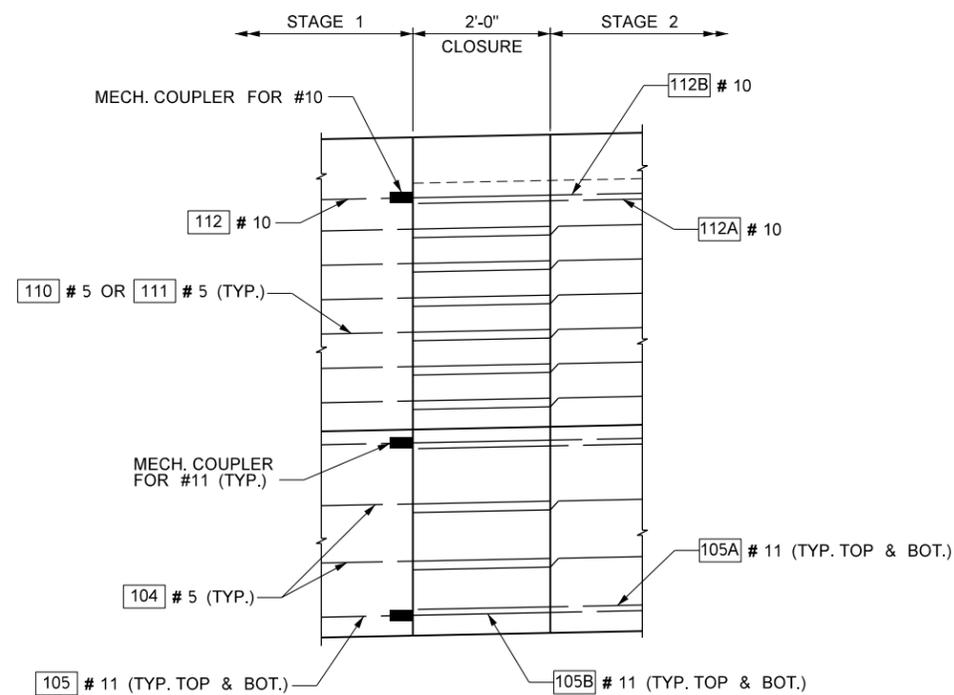


I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 4
PIER 2 CROSSBEAM DETAILS		PLAN REF NO BR23
		SHEET OF SHEETS



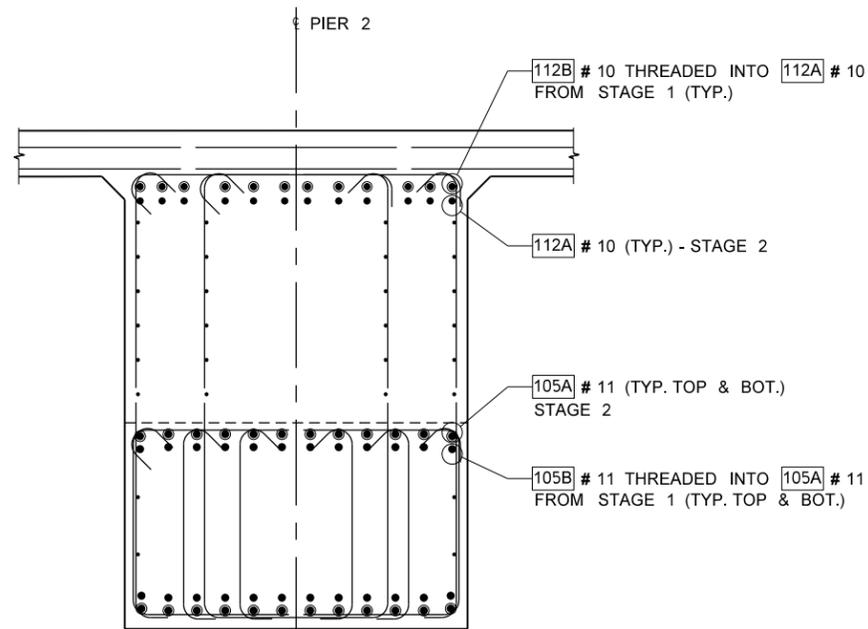
TIE SPACING DETAIL

INTERFERENCE AT SIGN SUPPORTS

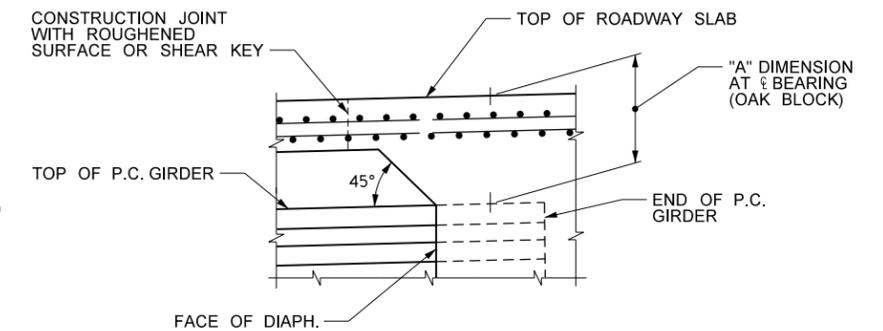


CLOSURE DETAIL

INTERFERENCE AT COLUMN LOCATIONS

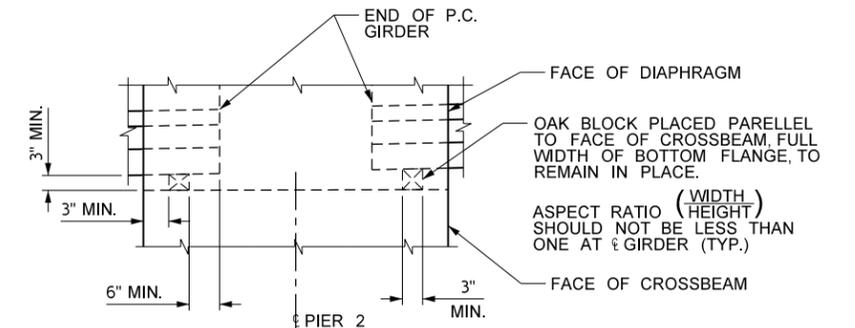


CLOSURE SECTION



DETAIL H

DIAPHRAGM REINFORCING NOT SHOWN FOR CLARITY



OAK BLOCK DETAIL

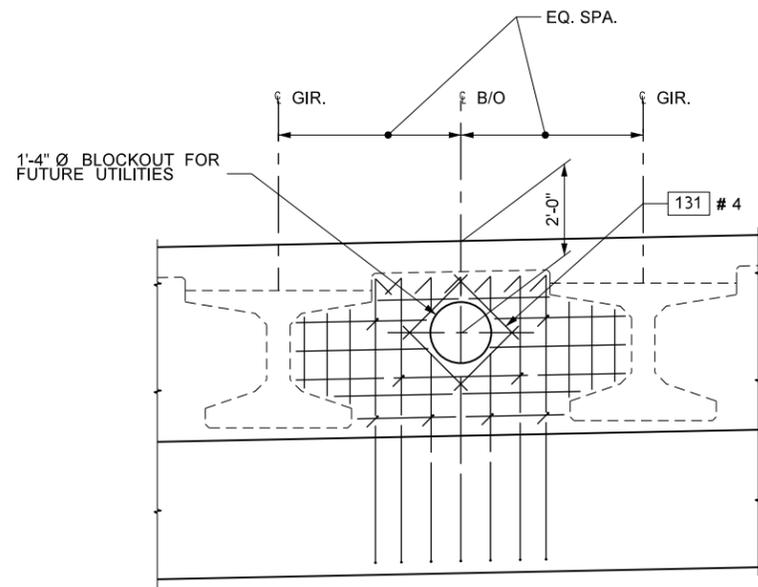
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TIME 7:22:06 AM	REGION NO. 10	STATE WASH			
DATE 10/31/2012	JOB NUMBER				
PLOTTED BY valenalv	CONTRACT NO.		LOCATION NO.		
DESIGNED BY J. MERTH	DATE		BY		
ENTERED BY V. SCHICCHI	REVISION				
CHECKED BY R. MURRAY	DATE		BY		
PROJ. ENGR. R.A. LEWIS	REVISION				
REGIONAL ADM.	DATE		BY		

DATE _____ P.E. STAMP BOX

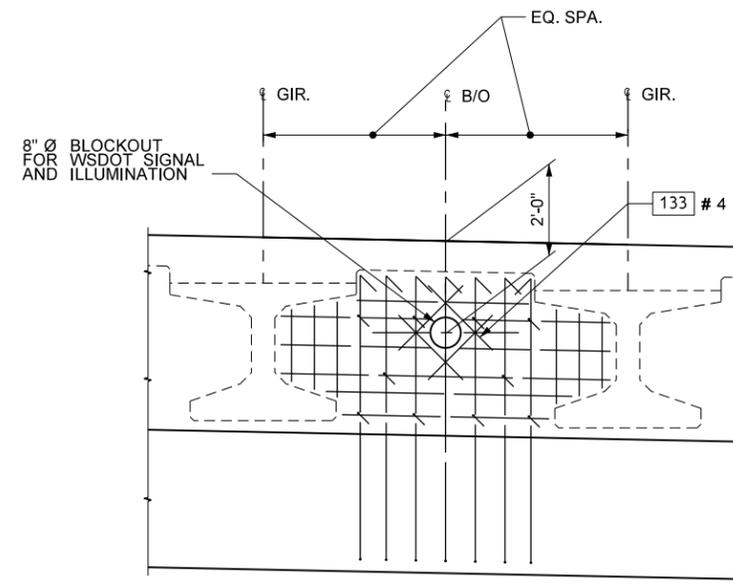
DATE _____ P.E. STAMP BOX



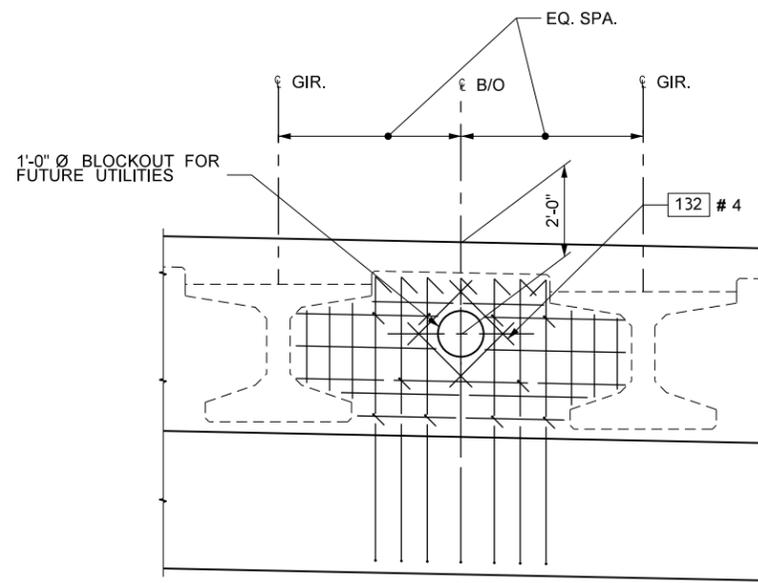
Plot 6
PLAN REF NO BR25
SHEET OF SHEETS
I-5 116TH ST NE INTERCHANGE IMPROVEMENTS PIER 2 CROSSBEAM DETAILS



1'-4" Ø UTILITY BLOCKOUT DETAIL



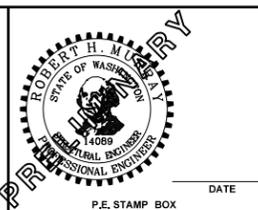
8" Ø UTILITY BLOCKOUT DETAIL



1'-0" Ø UTILITY BLOCKOUT DETAIL

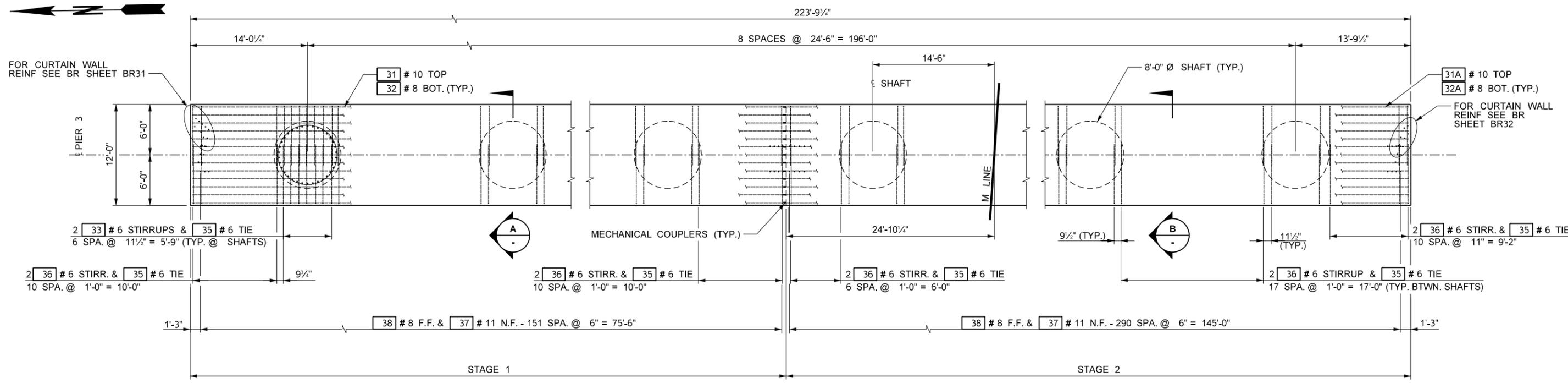
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TIME	3:03:24 PM	REGION NO.	STATE
DATE	10/31/2012	10	WASH
PLOTTED BY	valenalv	JOB NUMBER	
DESIGNED BY	J. MERTH	CONTRACT NO.	
ENTERED BY	V. SCHICCHI	LOCATION NO.	
CHECKED BY	R. MURRAY	REVISION	
PROJ. ENGR.	R.A. LEWIS	DATE	BY
REGIONAL ADM.			

FED.AID PROJ.NO.
P.E. STAMP BOX

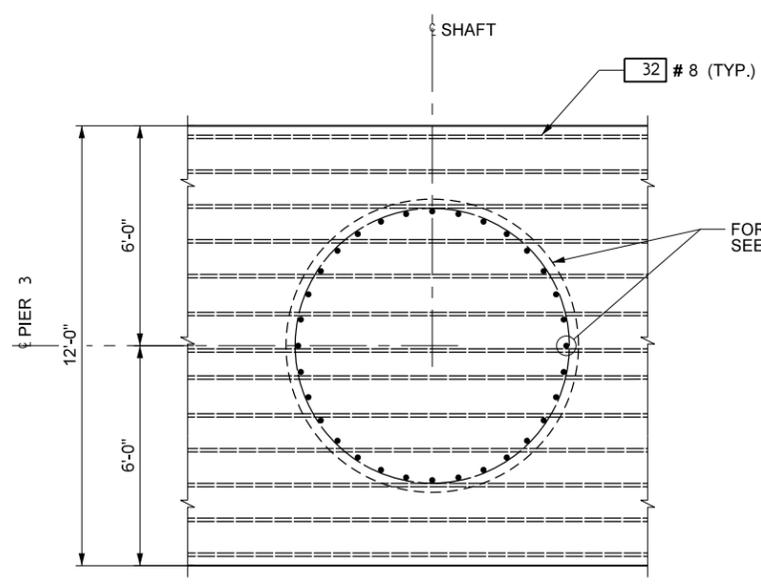


I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
PIER 2 CROSSBEAM DETAILS

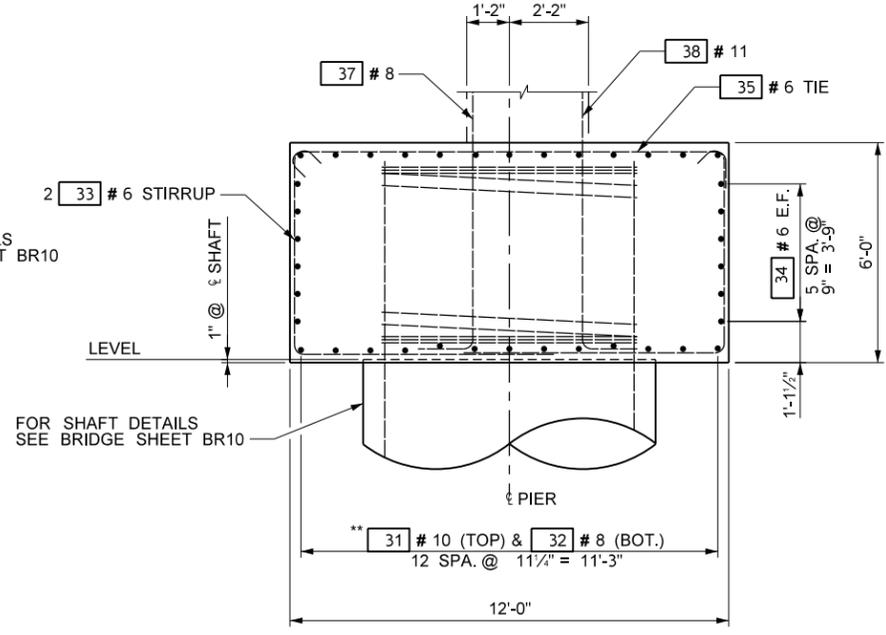
Plot 7
PLAN REF NO
BR26
SHEET
OF
SHEETS



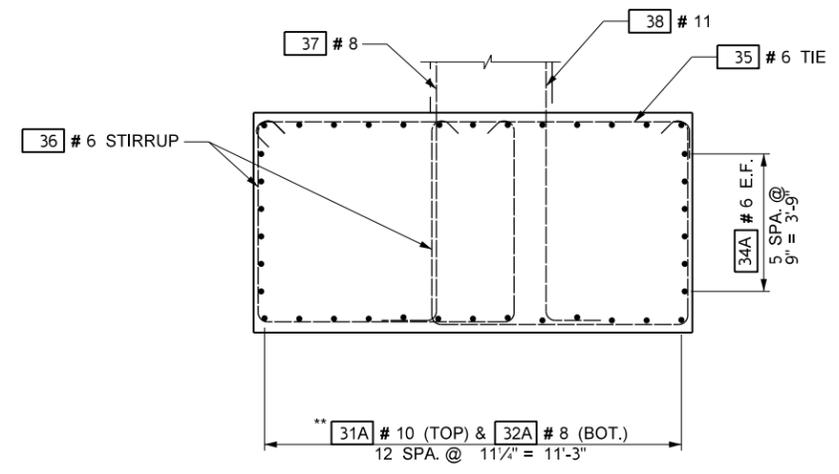
PLAN - PIER 3 SHAFT CAP



INTERFERENCE DETAIL



SECTION A

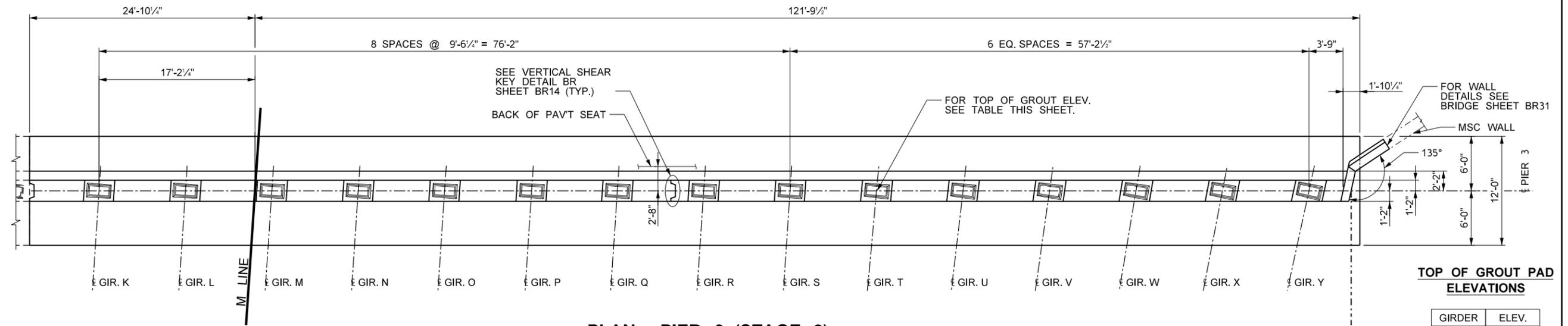


SECTION B

FOR INFORMATION NOT SHOWN SEE SECTION "A" THIS SHEET

** ADJUST SPACING OF BOTTOM MAT REINFORCEMENT AS NEEDED TO CLEAR VERTICAL SHAFT REINFORCEMENT SEE INTERFERENCE DIAGRAM THIS SHEET.

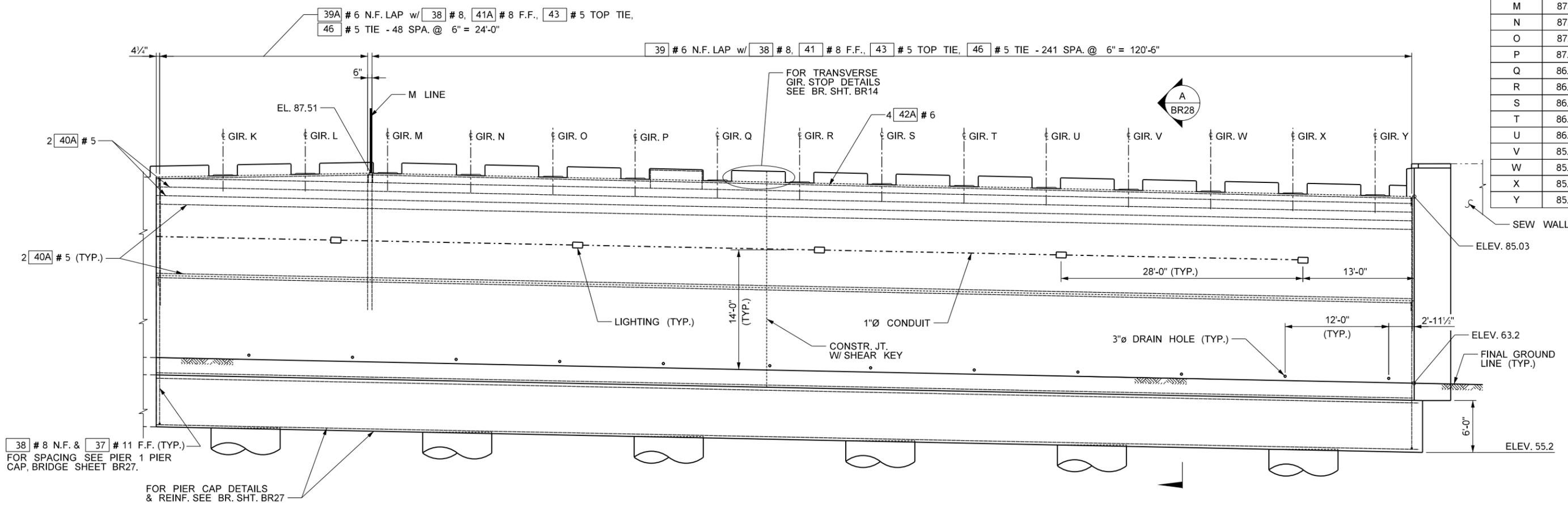
FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_PR3_CAP.dgn				REGION NO. STATE		FED.AID PROJ.NO.		ROBERT H. MURRAY STATE OF WASHINGTON PROFESSIONAL ENGINEER 4089		TULALIP TRIBES Parametrix		I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 1 PLAN REF NO BR27		
TIME 3:09:56 PM	DATE 10/31/2012	PLOTTED BY valenalv	DESIGNED BY J. MERTH	ENTERED BY V. SCHICCHI	CHECKED BY R. MURRAY	PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG	REVISION	DATE	BY	CONTRACT NO.	LOCATION NO.	SHEET		OF	
													PIER 3 SHAFT CAP		SHEETS	



PLAN - PIER 3 (STAGE 2)

TOP OF GROUT PAD ELEVATIONS

GIRDER	ELEV.
K	87.31
L	87.49
M	87.61
N	87.41
O	87.21
P	87.02
Q	86.82
R	86.63
S	86.43
T	86.23
U	86.04
V	85.84
W	85.65
X	85.45
Y	85.25



ELEVATION - PIER 3 (STAGE 2)

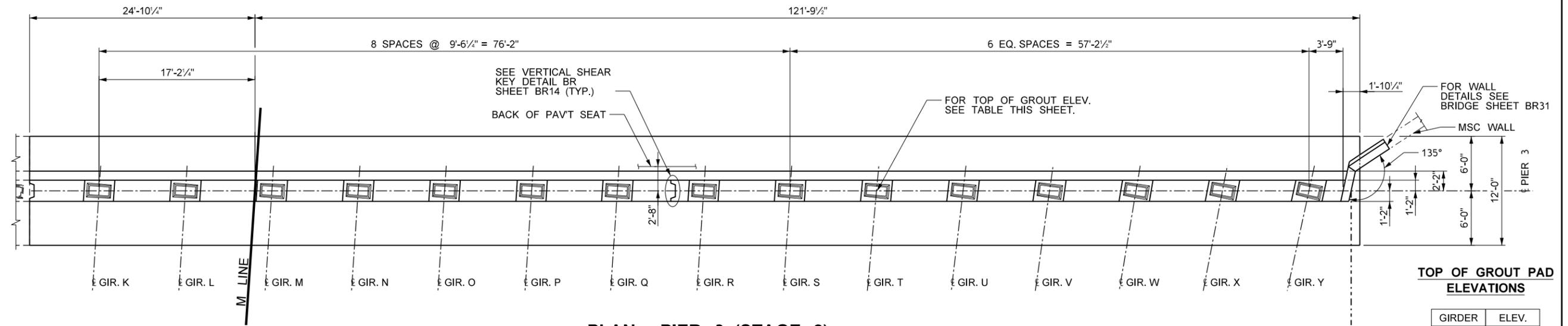
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TIME 3:12:23 PM		10 WASH				DATE		PLAN REF NO	
DATE 10/31/2012		JOB NUMBER				DATE		BR29	
PLOTTED BY valenalv		CONTRACT NO.		LOCATION NO.		DATE		SHEET	
DESIGNED BY J. MERTH						DATE		OF	
ENTERED BY V. SCHICCHI						DATE		SHEETS	
CHECKED BY R. MURRAY						DATE			
PROJ. ENGR. R.A. LEWIS						DATE			
REGIONAL ADM. L. ENG		REVISION		DATE		BY			

ROBERT H. MURRAY
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
14089

TULALIP TRIBES
Parametrix

I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

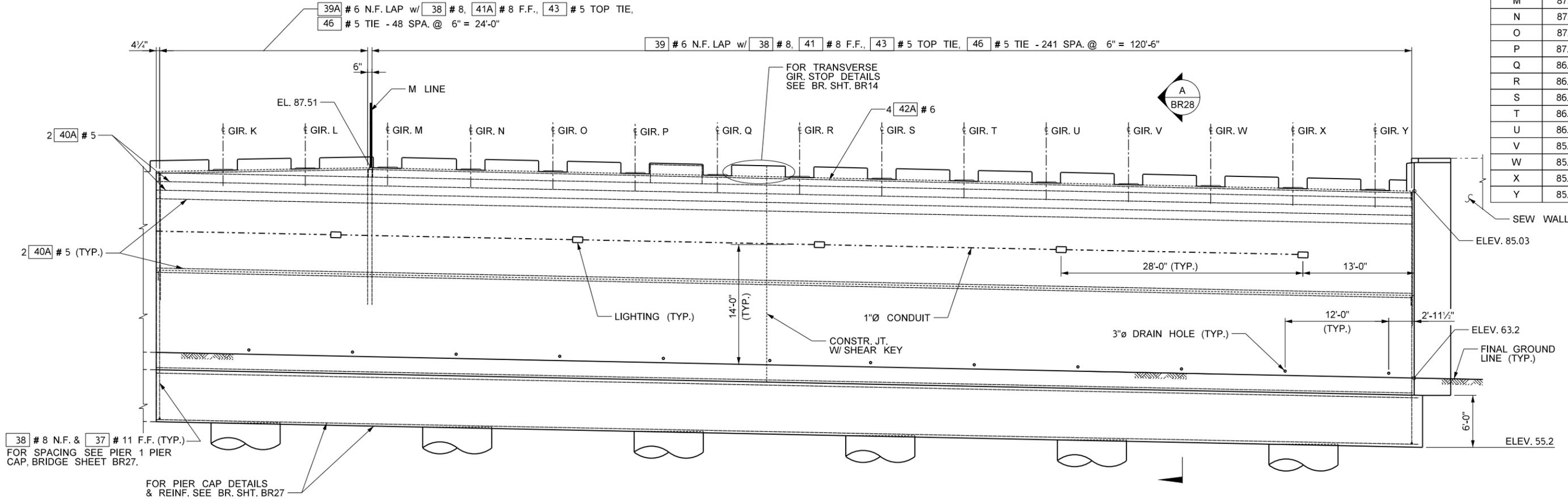
PIER 3 ELEVATION - STAGE 2



PLAN - PIER 3 (STAGE 2)

TOP OF GROUT PAD ELEVATIONS

GIRDER	ELEV.
K	87.31
L	87.49
M	87.61
N	87.41
O	87.21
P	87.02
Q	86.82
R	86.63
S	86.43
T	86.23
U	86.04
V	85.84
W	85.65
X	85.45
Y	85.25



ELEVATION - PIER 3 (STAGE 2)

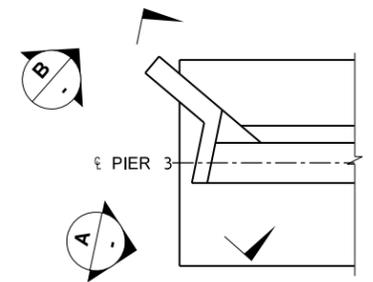
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TIME 3:15:34 PM		10 WASH				DATE		PLAN REF NO	
DATE 10/31/2012		JOB NUMBER				DATE		BR29	
PLOTTED BY valenalv		CONTRACT NO.		LOCATION NO.		DATE		SHEET	
DESIGNED BY J. MERTH						DATE		OF	
ENTERED BY V. SCHICCHI						DATE		SHEETS	
CHECKED BY R. MURRAY						DATE			
PROJ. ENGR. R.A. LEWIS						DATE			
REGIONAL ADM. L. ENG		REVISION		DATE		BY			

ROBERT H. MURRAY
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
14089

TULALIP TRIBES
Parametrix

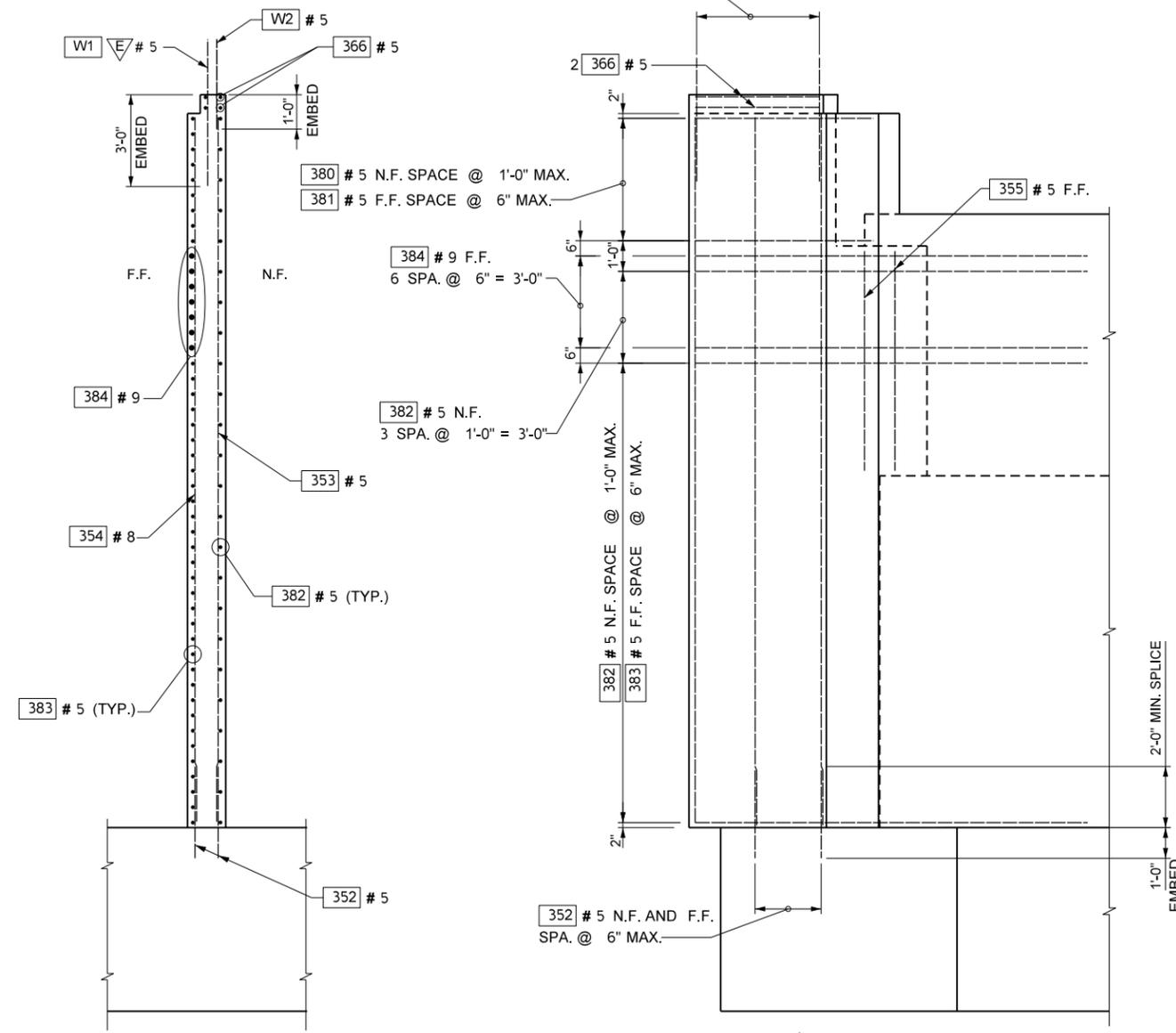
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

PIER 3 ELEVATION - STAGE 2



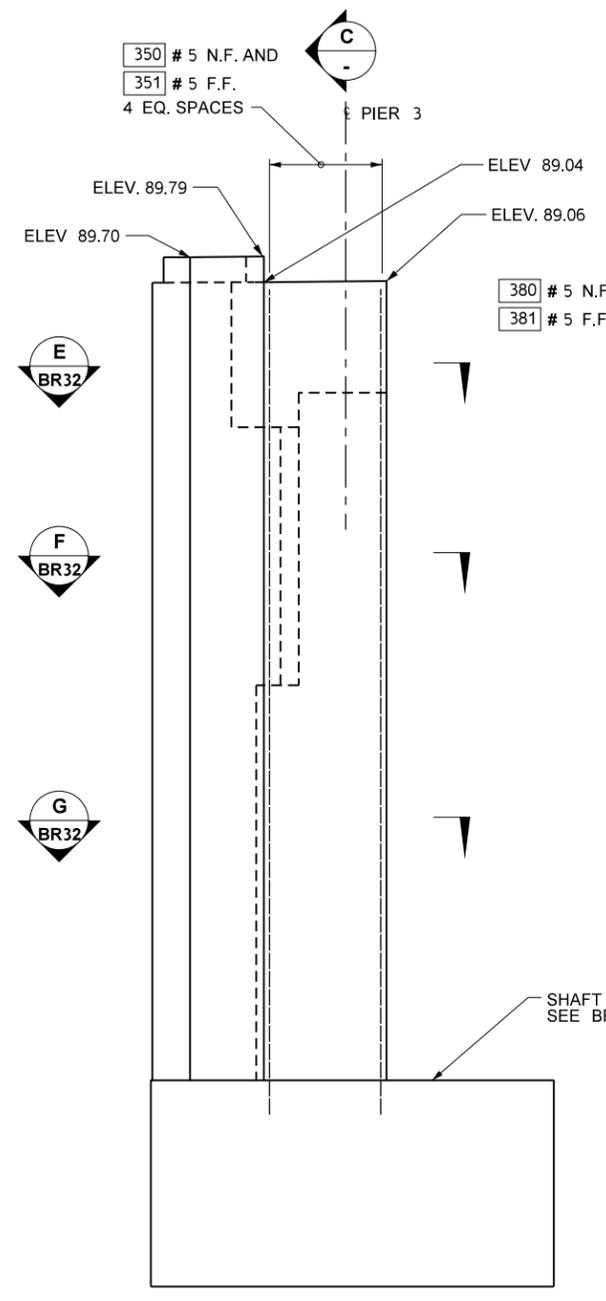
PIER 3 - NORTH CURTAIN WALL

- 353 # 5 N.F. ~ 4 SPA. @ 1'-0" = 4'-0"
- W2 # 5 N.F. ~ @ 1'-0" MAX.
- 354 # 8 F.F. ~ 8 SPA. @ 6" = 4'-0"
- W1 # 5 F.F. ~ @ 6" MAX.



SECTION **D**

VIEW **B**



VIEW **E**
BR32

VIEW **F**
BR32

VIEW **G**
BR32

VIEW **A**

VIEW **C**

- 380 # 5 N.F. SPACE @ 1'-0" MAX.
- 381 # 5 F.F. SPACE @ 6" MAX.

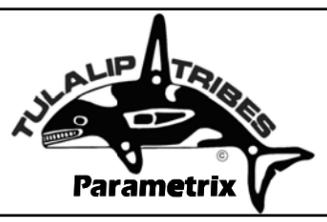
SHAFT CAP - FOR DETAILS SEE BRIDGE SHEET BR27

CURTAIN WALL REINFORCEMENT NOT SHOWN FOR CLARITY SEE VIEW B

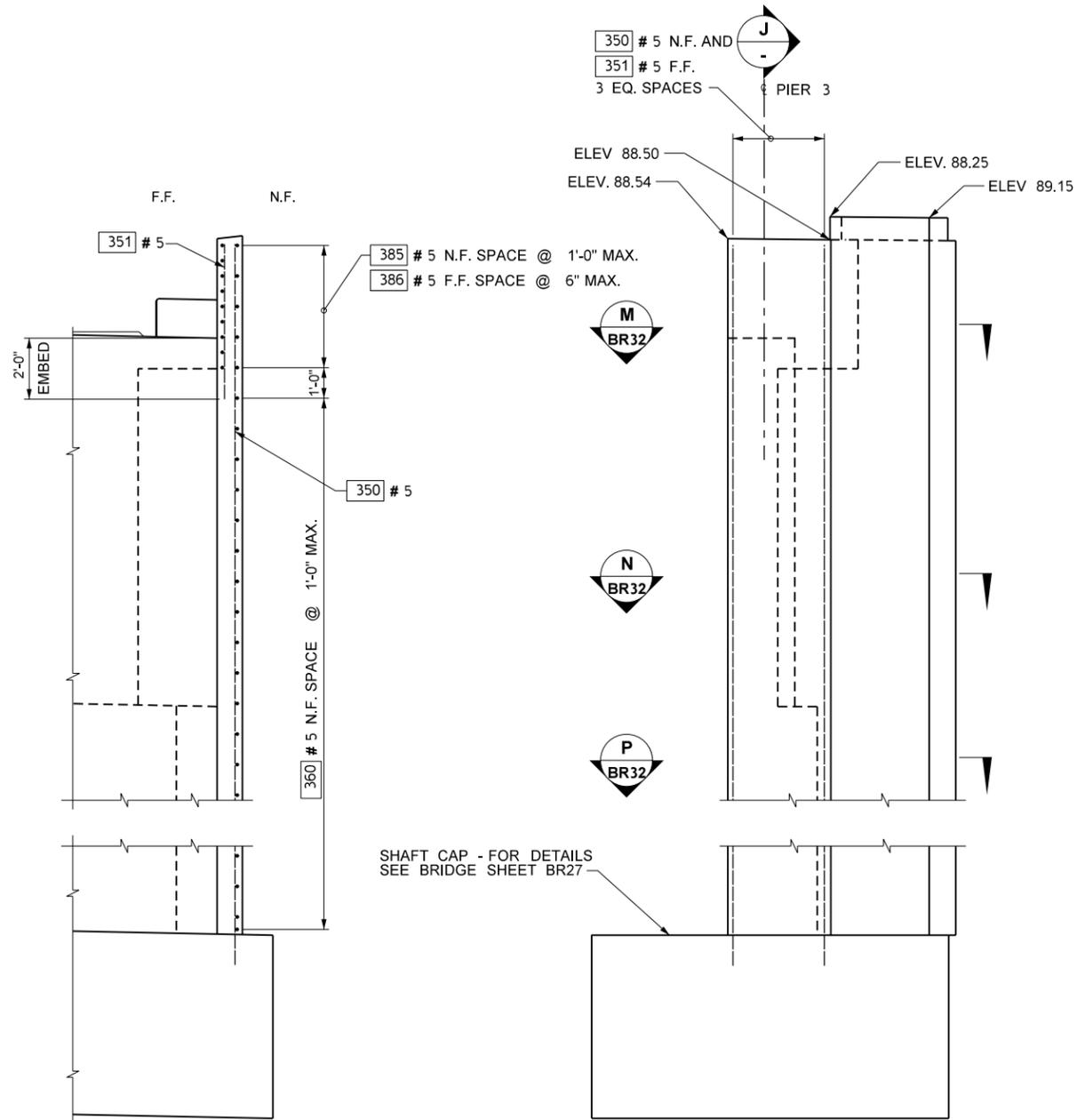
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DATE	10/31/2012	10	WASH
PLOTTED BY	valenalv	JOB NUMBER	
DESIGNED BY	J. MERTH	CONTRACT NO.	LOCATION NO.
ENTERED BY	V. SCHICCHI		
CHECKED BY			
PROJ. ENGR.			
REGIONAL ADM.	L. ENG	REVISION	DATE BY

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX

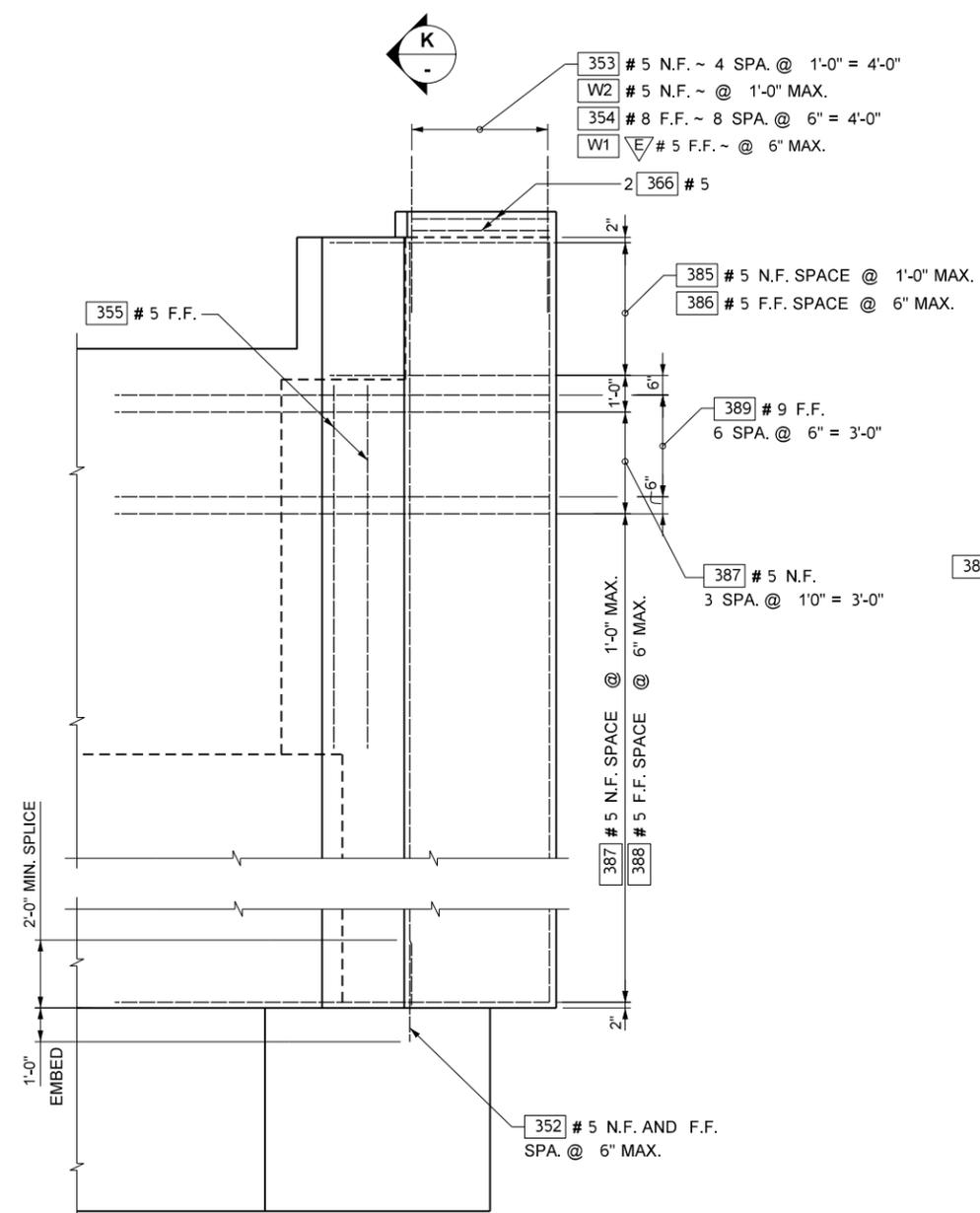


I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 1 PLAN REF NO BR31
PIER 3 CURTAIN WALL NORTH	SHEET OF SHEETS



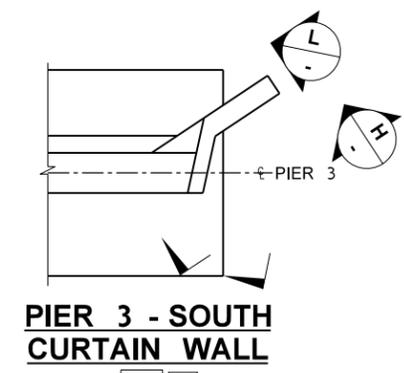
SECTION J

VIEW L



VIEW H

VIEW K



PIER 3 - SOUTH CURTAIN WALL

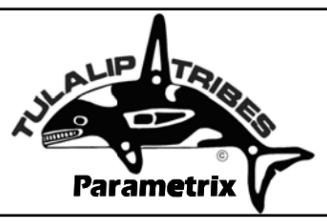
SHAFT CAP - FOR DETAILS SEE BRIDGE SHEET BR27

CURTAIN WALL REINFORCEMENT NOT SHOWN FOR CLARITY SEE VIEW H

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADD\Bridg\100% Plans\BL 1598033_BG_PR3_WALLS.dgn				
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PLOTTED BY	valenalv	CONTRACT NO.		LOCATION NO.	
DESIGNED BY	J. MERTH	REVISION		DATE	BY
ENTERED BY	V. SCHICCHI				
CHECKED BY					
PROJ. ENGR.					
REGIONAL ADM.	L. ENG				

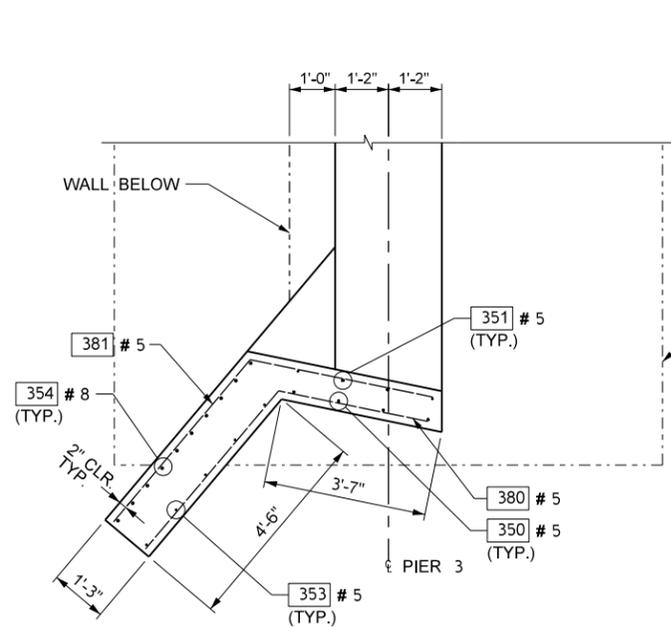
DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX

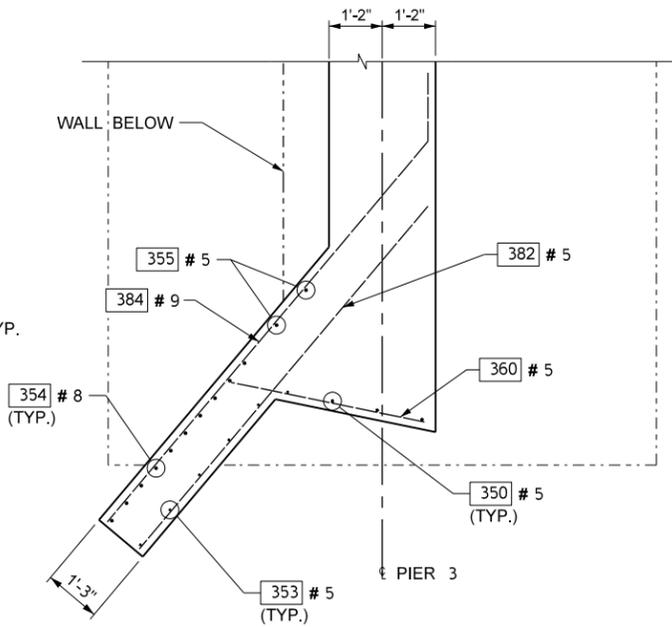


I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
PIER 3 CURTAIN WALL SOUTH

Plot 2
PLAN REF NO
BR32
SHEET
OF
SHEETS

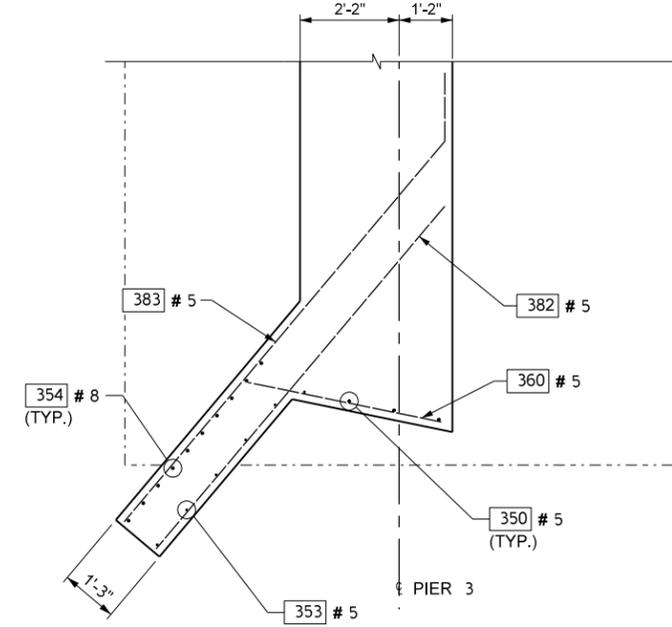


SECTION E
BR30



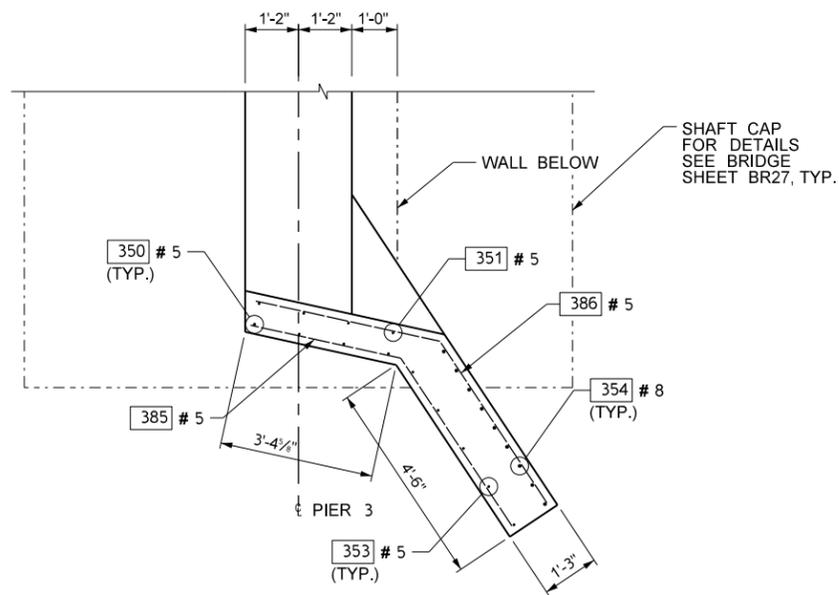
SECTION F
BR30

ABUTMENT REINFORCEMENT
NOT SHOWN FOR CLARITY

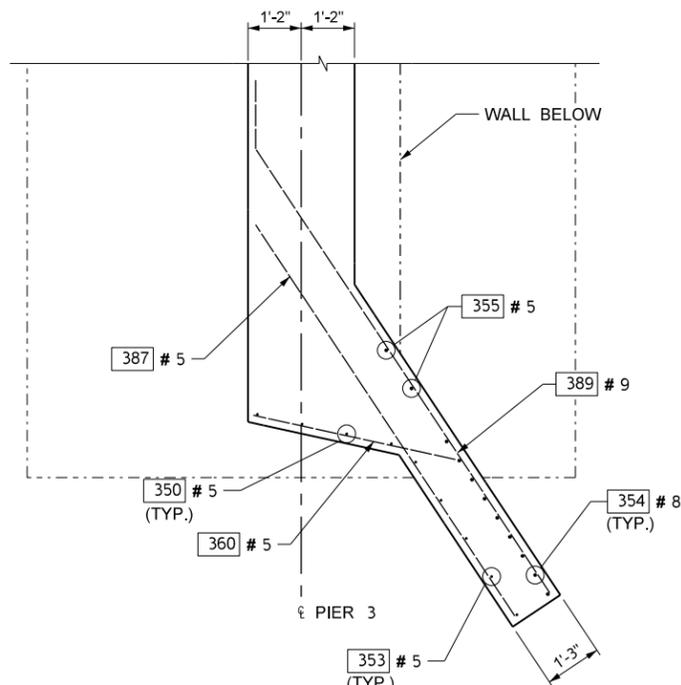


SECTION G
BR30

ABUTMENT REINFORCEMENT
NOT SHOWN FOR CLARITY

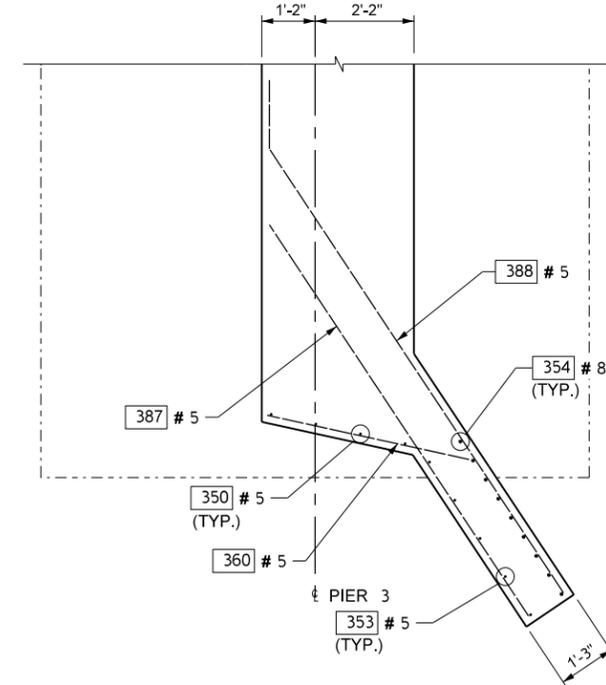


SECTION M
BR31



SECTION N
BR31

ABUTMENT REINFORCEMENT
NOT SHOWN FOR CLARITY



SECTION P
BR31

ABUTMENT REINFORCEMENT
NOT SHOWN FOR CLARITY

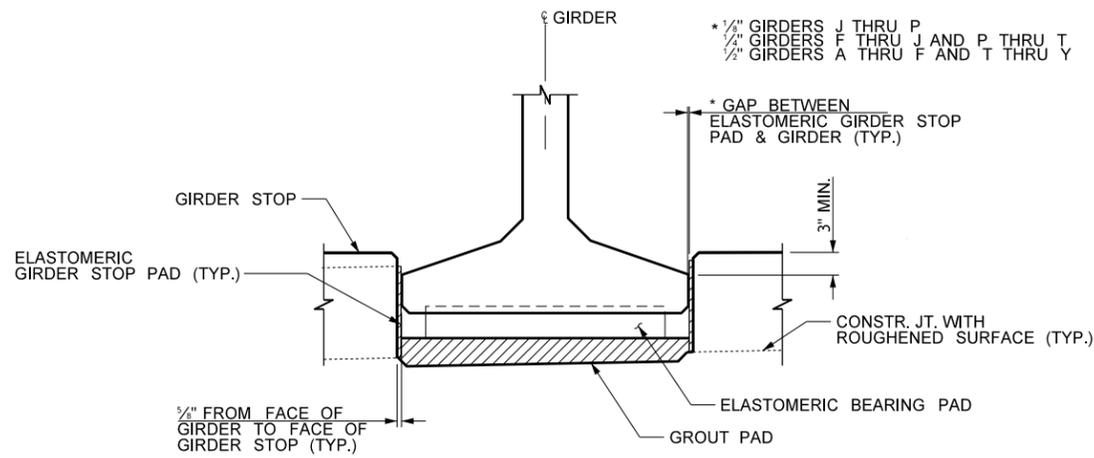
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TIME	5:57:50 PM		
DATE	10/25/2012		
PLOTTED BY	valenalv		
DESIGNED BY	J. MERTH		
ENTERED BY	V. SCHICCHI		
CHECKED BY			
PROJ. ENGR.			
REGIONAL ADM.	L. ENG	REVISION	DATE BY
REGION NO.	10	STATE	WASH
JOB NUMBER			
CONTRACT NO.	LOCATION NO.		
FED.AID PROJ.NO.			
LOCATION NO.			

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX



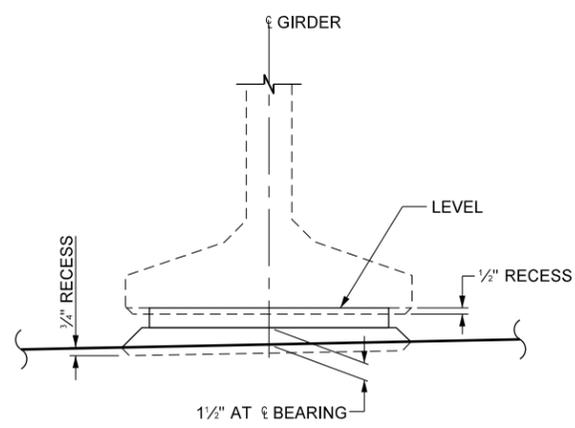
I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 3 PLAN REF NO BR33
PIER 3 CURTAIN WALL DETAILS	SHEET OF SHEETS



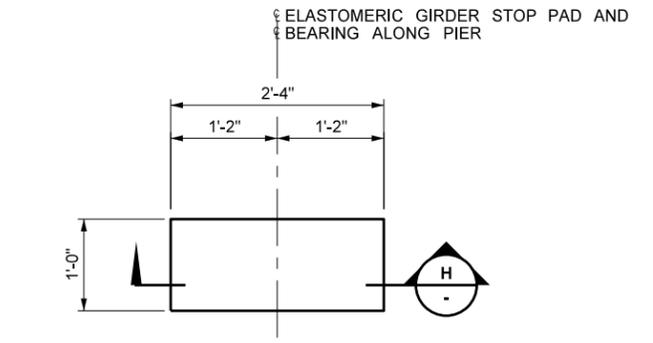
SECTION G

NOTE:

1. GIRDER STOPS SHALL BE CONSTRUCTED AFTER GIRDER PLACEMENT.
2. THE ELASTOMERIC GIRDER STOP PADS SHALL BE BONDED TO GIRDER STOPS WITH APPROVED ADHESIVE.

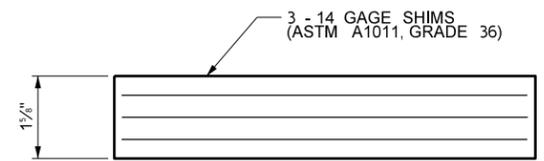


GROUT PAD GEOMETRY

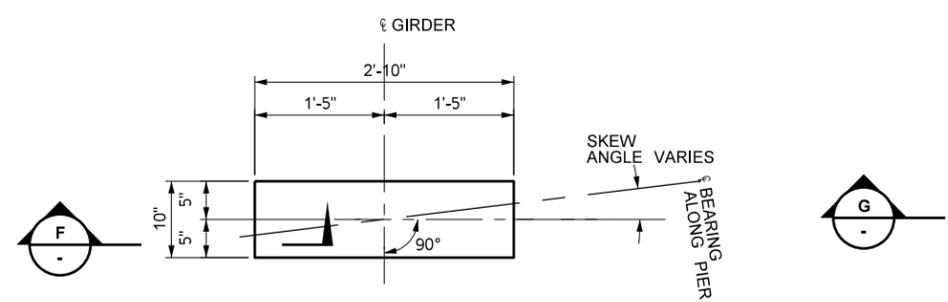


ELASTOMERIC GIRDER STOP PAD

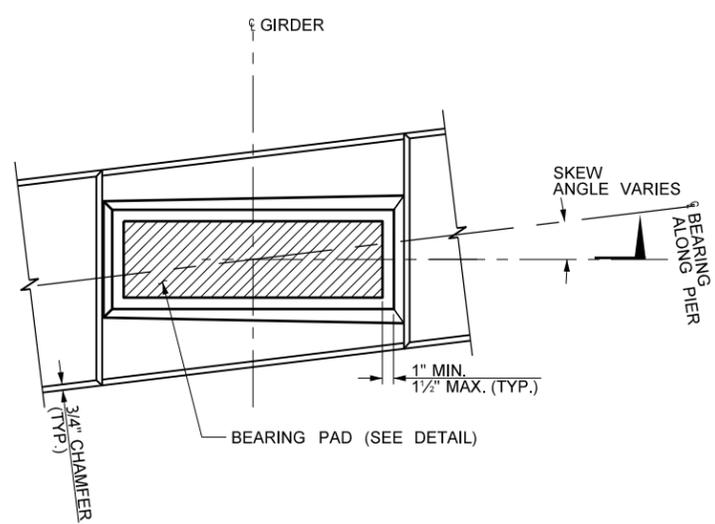
DUROMETER HARDNESS = 60



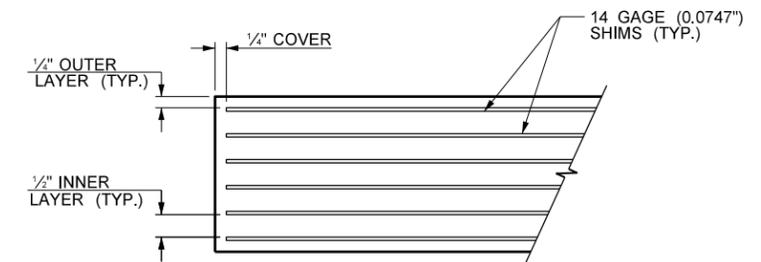
SECTION H



ELASTOMERIC BEARING PAD



GROUT PAD DETAIL



SECTION F

BEARING DESIGN TABLE	
SERVICE - 1 LIMIT STATE	
DEAD LOAD REACTION	107 KIPS
LIVE LOAD REACTION (W/O IMPACT)	86 KIPS
UNLOADED HEIGHT	3.45 IN.
LOADED HEIGHT (DL)	3.42 IN.
SHEAR MODULUS @ 73°	165 PSI

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_BRG.dgn				
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DATE	10/25/2012	FED.AID PROJ.NO.			
PLOTTED BY	valenalv	JOB NUMBER			
DESIGNED BY	J. MERTH	CONTRACT NO.	LOCATION NO.		
ENTERED BY	V. SCHICCHI				
CHECKED BY					
PROJ. ENGR.					
REGIONAL ADM.	L. ENG	REVISION	DATE	BY	

DATE _____ P.E. STAMP BOX

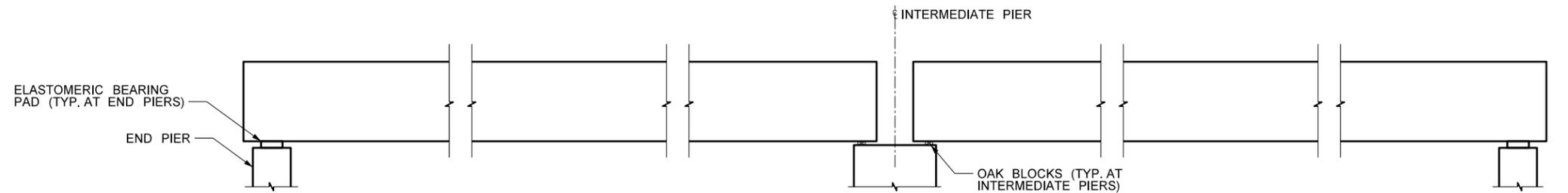
DATE _____ P.E. STAMP BOX



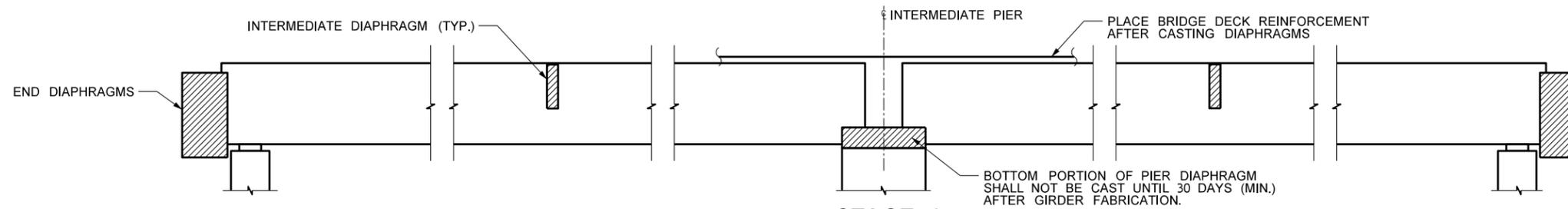
I-5
 116TH ST NE
 INTERCHANGE IMPROVEMENTS

BEARING DETAILS

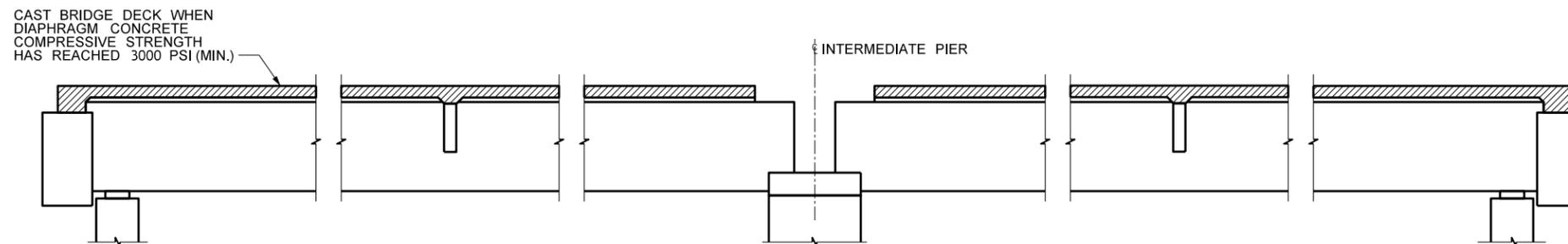
Plot 1
PLAN REF NO BR34
SHEET OF SHEETS



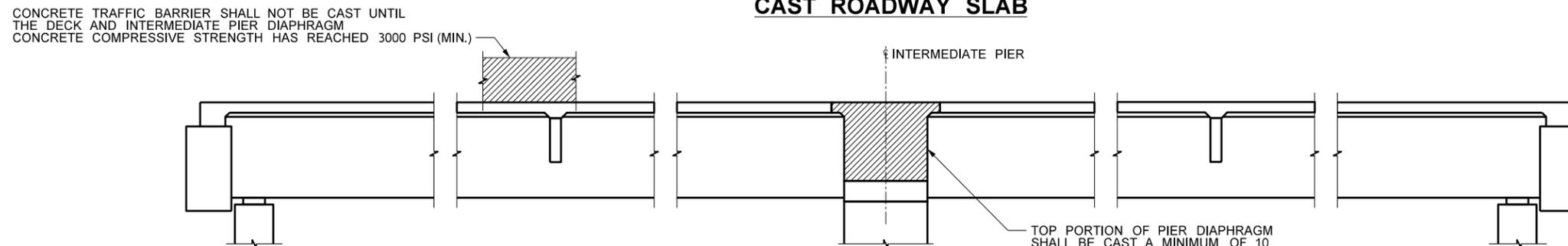
**STAGE 1
SET GIRDERS IN PLACE**



**STAGE 2
CAST DIAPHRAGMS AND PLACE ROADWAY SLAB REINFORCEMENT**



**STAGE 3
CAST ROADWAY SLAB**



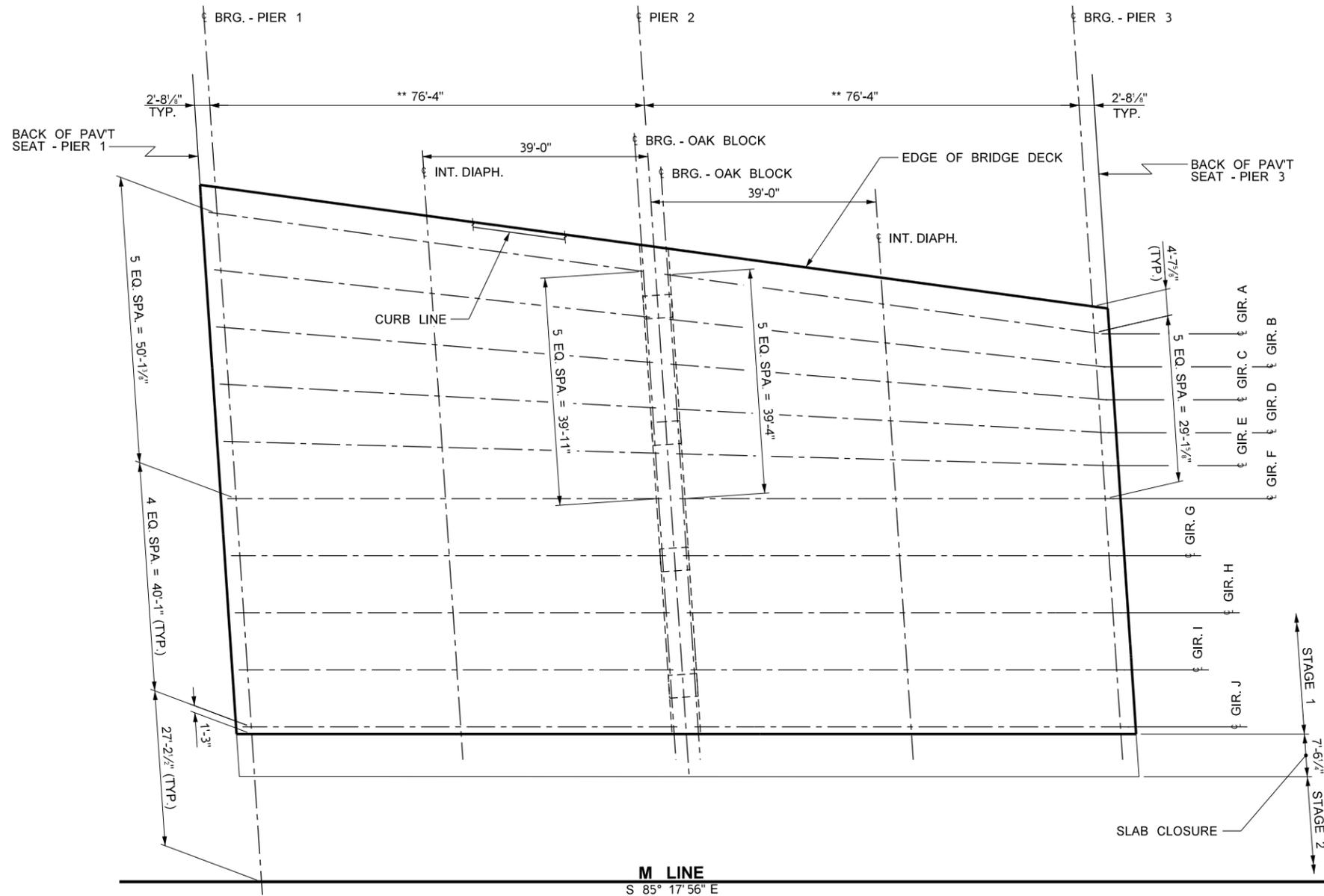
**STAGE 4
COMPLETE DIAPHRAGMS**

NOTE:

NO LIVE LOAD SHALL BE ALLOWED ON THE SPANS UNTIL THE COMPRESSIVE STRENGTH OF THE TOP PORTION OF THE PIER DIAPHRAGM HAS REACHED 3000 PSI (MIN.)

CONSTRUCTION SEQUENCE - SUPERSTRUCTURE

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_SEQ.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	PLAN REF NO
TIME 5:59:26 PM	DATE 10/25/2012	10	WASH						BR35
PLOTTED BY valenav		JOB NUMBER		CONTRACT NO.	LOCATION NO.			SHEET	
DESIGNED BY J. MERTH								OF	
ENTERED BY V. SCHICCHI								SHEETS	
CHECKED BY R. MURRAY									
PROJ. ENGR. R.A. LEWIS									
REGIONAL ADM. L. ENG	REVISION	DATE	BY						

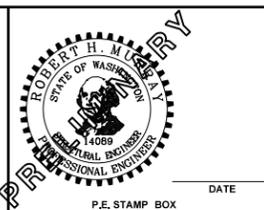


FRAMING PLAN - STAGE 1

BEARING OF ALL PIERS IS N 0°52'57" E
 TRANSVERSE DIMENSIONS ARE MEASURED ALONG ξ OF BEARING
 ** MEASURED ALONG M LINE

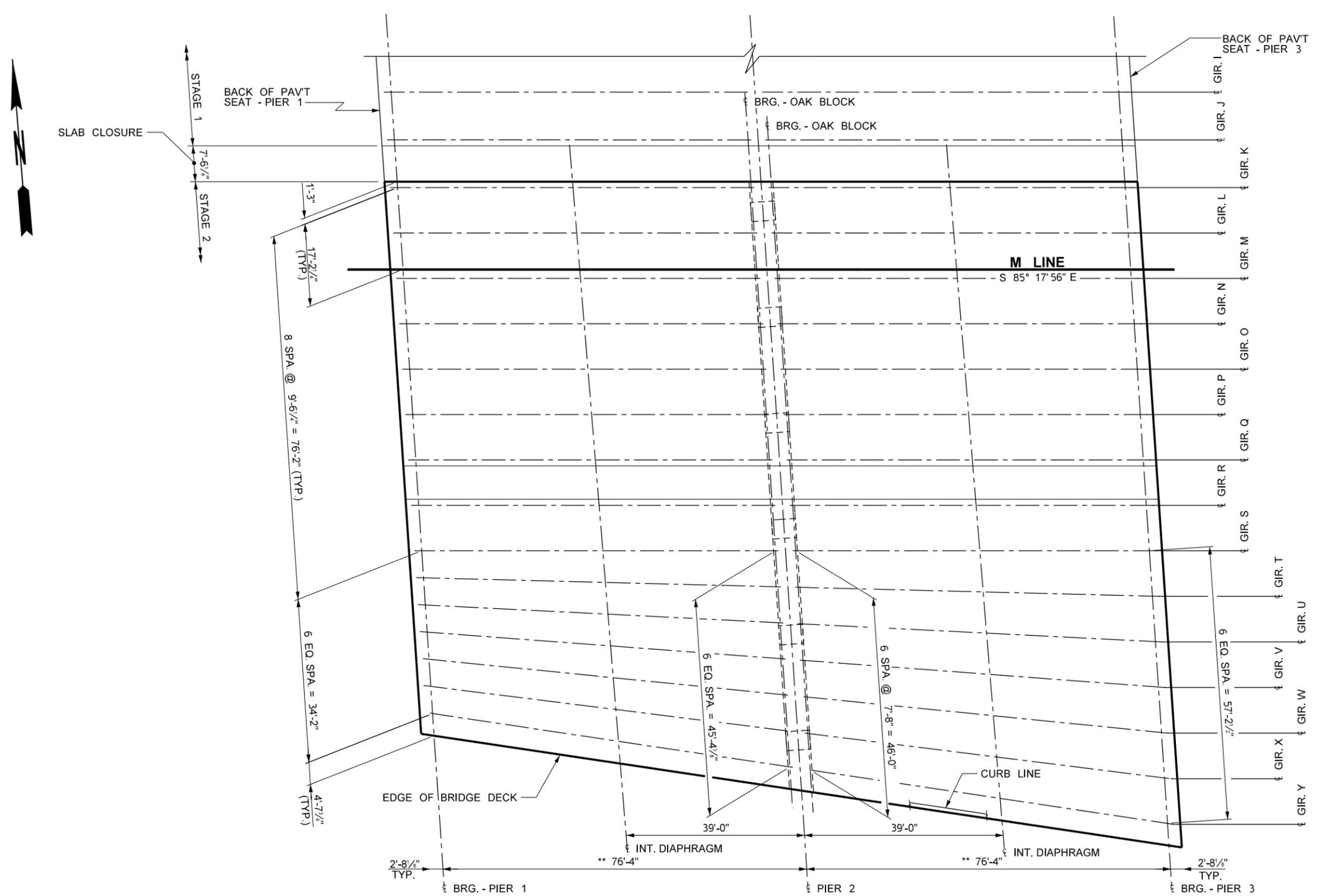
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TIME	6:00:04 PM		
DATE	10/25/2012		
PLOTTED BY	valenalv		
DESIGNED BY	J. MERTH		
ENTERED BY	V. SCHICCHI		
CHECKED BY	R. MURRAY		
PROJ. ENGR.	R.A. LEWIS		
REGIONAL ADM.	REVISION	DATE	BY

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



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS
FRAMING PLAN - STAGE 1

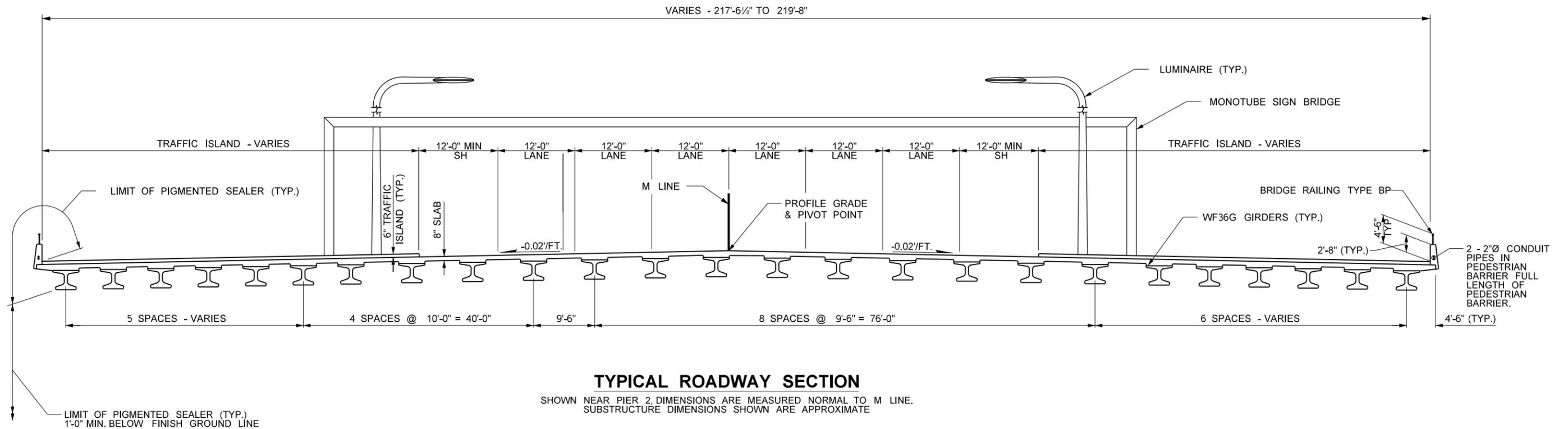
Plot 1
PLAN REF NO BR36
SHEET OF SHEETS



FRAMING PLAN - STAGE 2

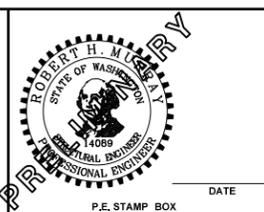
BEARING OF ALL PIERS IS N 0°52'57" E
 TRANSVERSE DIMENSIONS ARE MEASURED ALONG \perp OF BEARING
 ** MEASURED ALONG M LINE

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3\99Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_FP_1.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS FRAMING PLAN - STAGE 2	Plot 2
TIME 6:00:25 PM	DATE 10/25/2012	10	WASH						PLAN REF NO BR37
PLOTTED BY valenalv	DESIGNED BY J. MERTH	JOB NUMBER		LOCATION NO.				SHEET	
ENTERED BY V. SCHICCHI	CHECKED BY R. MURRAY	CONTRACT NO.						OF	
PROJ. ENGR. R.A. LEWIS	REGIONAL ADM.	REVISION	DATE	BY				SHEETS	



FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3\99Svc\CADD\Bridge\100% Plans\BL 1598033_BG_LYT.dgn			
TIME	8:20:37 AM	REGION NO.	STATE
DATE	10/31/2012	10	WASH
PLOTTED BY	valenalv	JOB NUMBER	
DESIGNED BY	J. MERTH	CONTRACT NO.	LOCATION NO.
ENTERED BY	V. SCHICCHI		
CHECKED BY	R. MURRAY		
PROJ. ENGR.	R.A. LEWIS		
REGIONAL ADM.	L. ENG	REVISION	DATE BY

FED.AID PROJ.NO.	
LOCATION NO.	
DATE	P.E. STAMP BOX

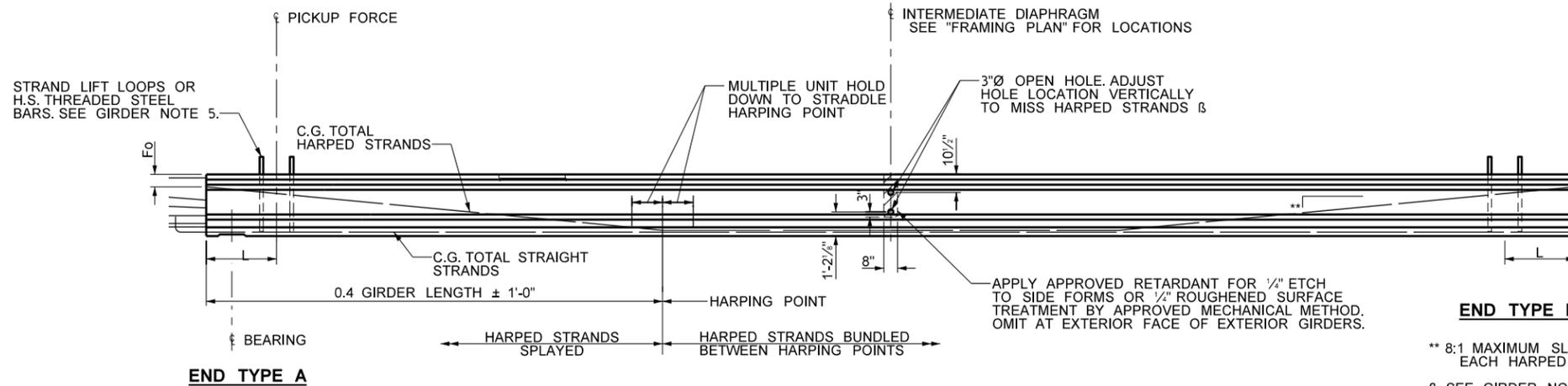


I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	
TYPICAL SECTION	

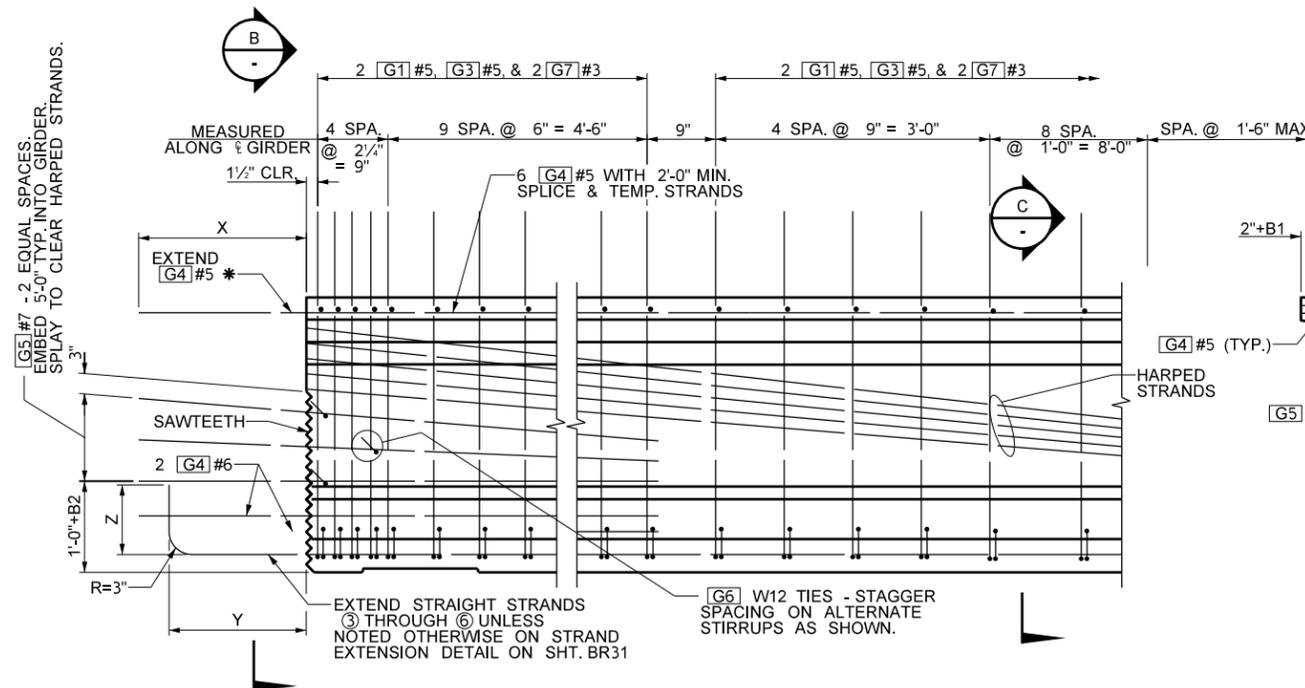
Plot 2
PLAN REF NO BR38
SHEET OF SHEETS

GIRDER NOTES

1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
2. ALL PRETENSIONED STRANDS SHALL BE 0.6"Ø LOW RELAXATION STRANDS (AASHTO M203 GRADE 270), JACKED TO 202.5 KSI.
3. FOR END TYPES A AND D CUT ALL STRANDS FLUSH WITH THE GIRDER ENDS AND PAINT WITH AN APPROVED EPOXY RESIN, EXCEPT FOR EXTENDED STRANDS AS SHOWN.
4. THE TOP SURFACE OF THE GIRDER FLANGE SHALL BE ROUGHENED IN ACCORDANCE WITH SECTION 6-02.3(25)H OF THE STANDARD SPECIFICATIONS.
5. LIFTING EMBEDMENTS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 6-02.3(25)L OF THE STANDARD SPECIFICATIONS.
6. CAUTION SHALL BE EXERCISED IN HANDLING AND PLACING GIRDERS. ALL GIRDERS SHALL BE CHECKED BY THE CONTRACTOR TO ENSURE THAT THEY ARE BRACED ADEQUATELY TO PREVENT TIPPING AND TO CONTROL LATERAL BENDING DURING SHIPPING. ONCE ERECTED, ALL GIRDERS SHALL BE BRACED LATERALLY TO PREVENT TIPPING UNTIL THE DIAPHRAGMS ARE CAST AND CURED.
7. FORMS FOR BEARING PAD RECESSES SHALL BE CONSTRUCTED AND FASTENED IN SUCH A MANNER AS TO NOT CAUSE DAMAGE TO THE GIRDER DURING THE STRAND RELEASE OPERATION.
8. FOR DIAPHRAGMS, OMIT HOLES AND PLACE INSERTS ON THE INTERIOR FACE OF EXTERIOR GIRDERS. PLACE HOLES AND INSERTS PARALLEL TO SKEW AND ROADWAY DECK. INSERTS SHALL BE 1"Ø MEADOWBURKE MX-3 HI-TENSILE, 1"Ø x 4 1/2" DAYTON-SUPERIOR F-62 FLARED THIN SLAB FERRULE INSERT OR APPROVED EQUAL.
9. SELF CONSOLIDATING CONCRETE SHALL NOT BE USED FOR FABRICATION OF PRECAST GIRDERS.

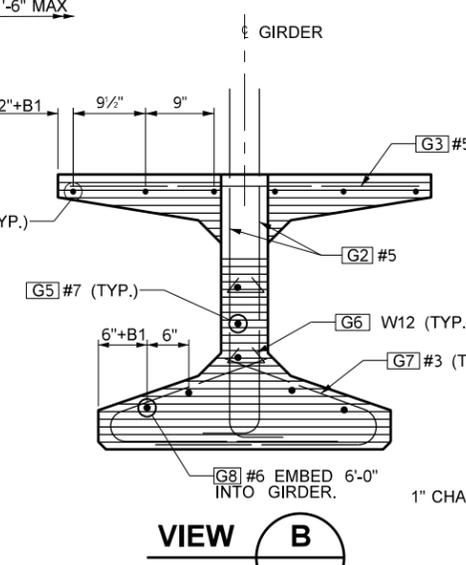


GIRDER ELEVATION



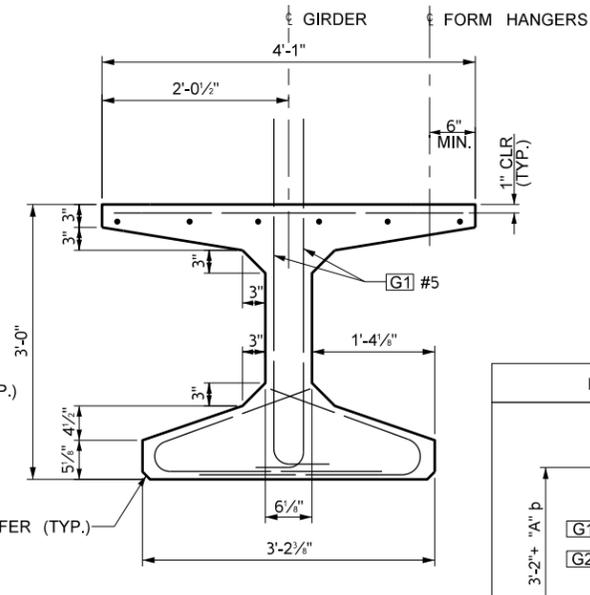
TYPICAL END ELEVATION

END TYPE A SHOWN, OTHER END TYPES SIMILAR.
 * X DIMENSION SHALL BE 1'-4" FOR [G4] AT END TYPE A ONLY. SEE TABLE FOR OTHER X DIMENSION BAR EXTENSIONS.



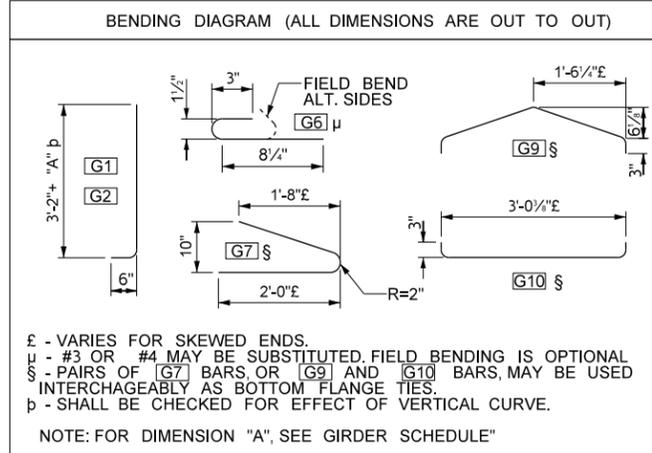
VIEW B

SAWTEETH SHOWN BY HATCHED AREA.
 STRANDS NOT SHOWN.



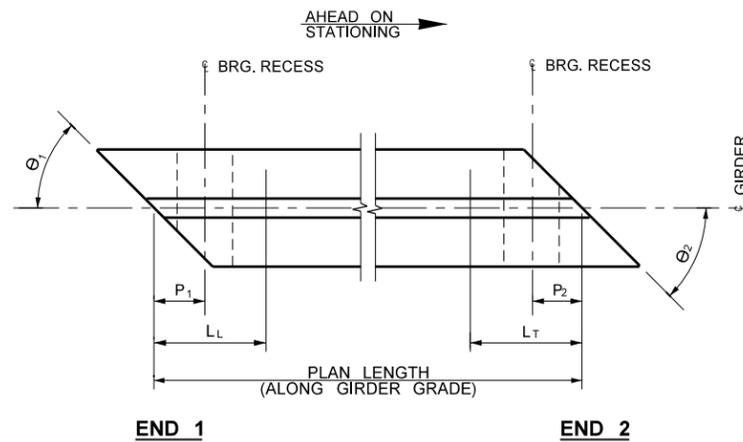
SECTION C

END TYPE	BEARING RECESS	X	Y	Z	SAWTEETH
A	YES	1'-10"	1'-6"	9"	YES
D	NO	1'-10"	SEE "STRAND EXT. DETAIL"		YES



£ - VARIES FOR SKEWED ENDS.
 μ - #3 OR #4 MAY BE SUBSTITUTED. FIELD BENDING IS OPTIONAL
 § - PAIRS OF [G7] BARS, OR [G9] AND [G10] BARS, MAY BE USED INTERCHANGEABLY AS BOTTOM FLANGE TIES.
 b - SHALL BE CHECKED FOR EFFECT OF VERTICAL CURVE.
 NOTE: FOR DIMENSION "A", SEE GIRDER SCHEDULE"

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADD\Bridge\100% Plans\1598033_BG_GIR_1.dgn			REGION NO.	STATE	FED.AID PROJ.NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 1
TIME	6:01:12 PM			10	WASH					PLAN REF NO BR39
DATE	10/25/2012			JOB NUMBER						SHEET
PLOTTED BY	valenalv			CONTRACT NO.		LOCATION NO.				OF
DESIGNED BY	J. MERTH									SHEETS
ENTERED BY	V. SCHICCHI									
CHECKED BY	R. MURRAY									
PROJ. ENGR.	R.A. LEWIS									
REGIONAL ADM.	L. ENG			REVISION	DATE	BY				

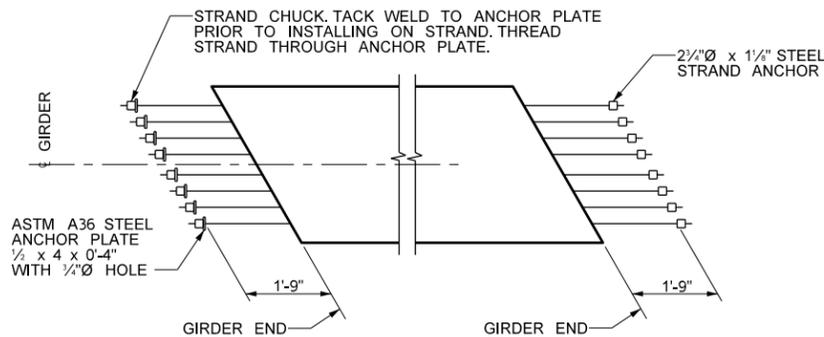


GIRDER SCHEDULE LEGEND

L_L AND L_T ARE SHIPPING SUPPORT LOCATIONS AT LEADING AND TRAILING ENDS, RESPECTIVELY.

STRAND EXTENSION NOTES:

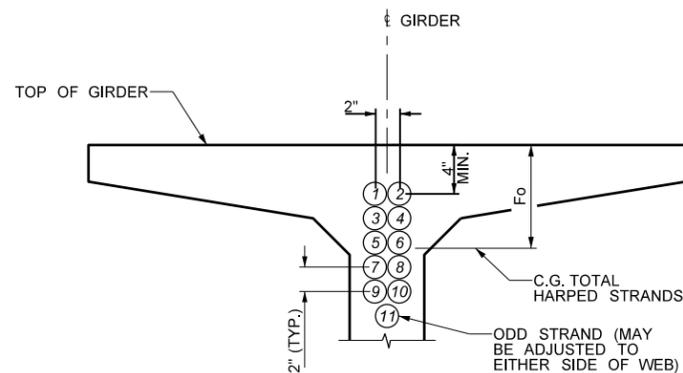
1. ANCHOR STRAND WITH TWO PIECE WEDGES BEFORE GIRDER ERECTION. VERIFY WEDGES ARE SEATED TIGHTLY IMMEDIATELY BEFORE PLACING DIAPHRAGM CONCRETE.
2. EXTEND STRAIGHT STRANDS ③, ④ AND ⑬ THROUGH ⑳ AT END AHEAD ON STATION. EXTEND STRAIGHT STRANDS ⑤, ⑥ AND ⑨ THROUGH ⑭ AT END BACK ON STATION.



ALTERNATE #1

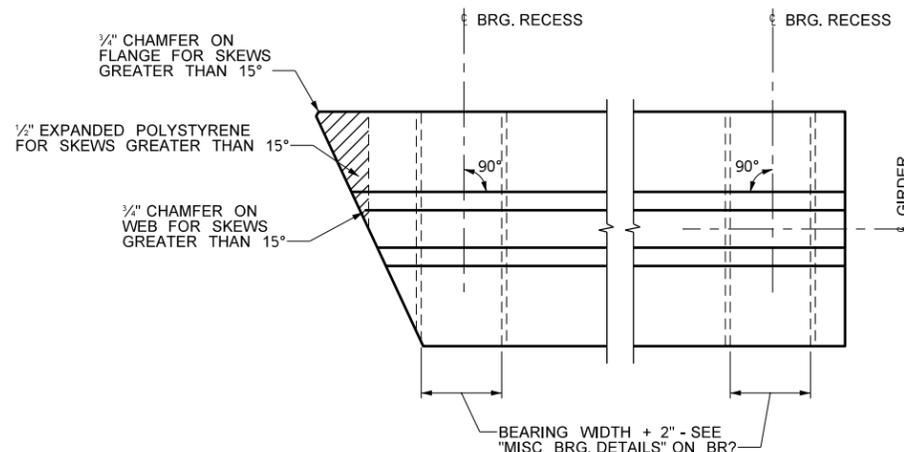
ALTERNATE #2

STRAND EXTENSION DETAIL

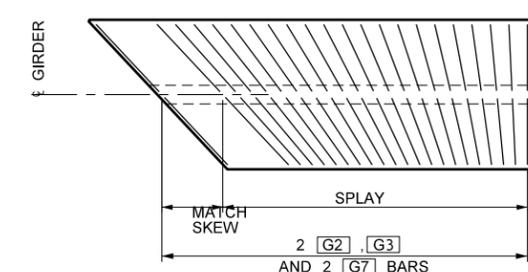


STRAND PATTERN AT GIRDER END

HARPED STRAND LOCATION SEQUENCE SHALL BE AS SHOWN ①, ② ETC.

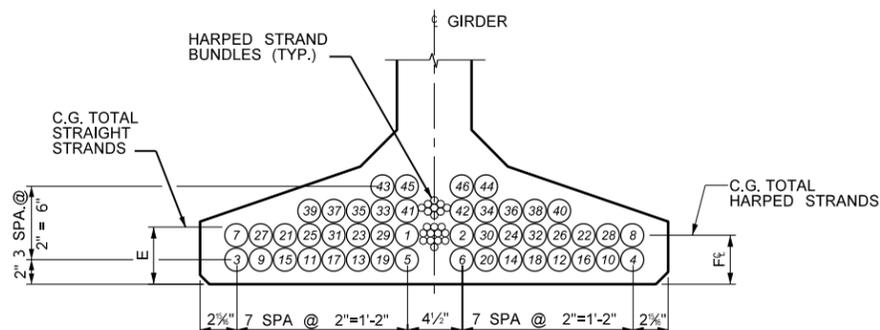


PLAN



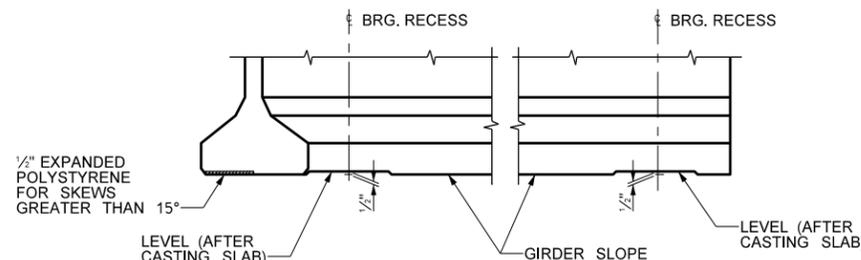
TRANSVERSE REINFORCING SKEWED ENDS

ONLY TRANSVERSE REINFORCEMENT SHOWN. LENGTH OF G₃ AND G₇ VARY WITH SKEW.



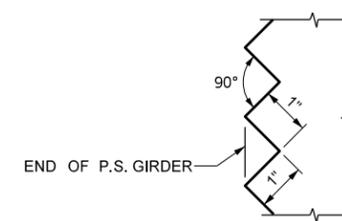
STRAND PATTERN AT SPAN

STRAIGHT STRAND LOCATION SEQUENCE SHALL BE AS SHOWN ①, ② ETC.



ELEVATION

BEARING RECESS AND BOTTOM FLANGE SPALL PROTECTION DETAIL



SAWTOOTH DETAILS

SAWTEETH ARE FULL WIDTH - USE SAWTEETH KEYS FROM BOTTOM OF BOTTOM FLANGE TO BOTTOM OF LOWEST HARPED STRAND AS WELL AS TOP FLANGE ADJACENT TO HARPED STRANDS AS SHOWN IN "VIEW B" - GIRDER DETAILS 1 OF 3.

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svc\CADD\Bridge\100% Plans\BL 1598033_BG_GIR_1.dgn			REGION NO.	STATE	FED.AID PROJ.NO.
TIME	6:01:39 PM			10	WASH	
DATE	10/25/2012			JOB NUMBER		
PLOTTED BY	valenalv			CONTRACT NO.		LOCATION NO.
DESIGNED BY	J. MERTH					
ENTERED BY	V. SCHICCHI					
CHECKED BY	R. MURRAY					
PROJ. ENGR.	R.A. LEWIS					
REGIONAL ADM.	L. ENG			REVISION	DATE	BY

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

WF36G GIRDER - DETAILS 2 OF 3

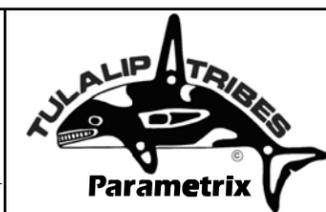
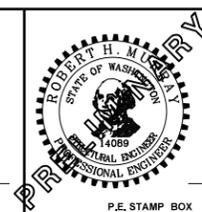
Plot 2
PLAN REF NO BR40
SHEET
OF
SHEETS

GIRDER SCHEDULE

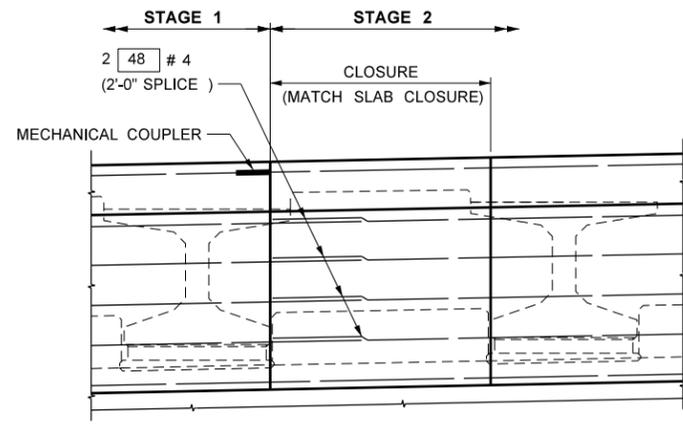
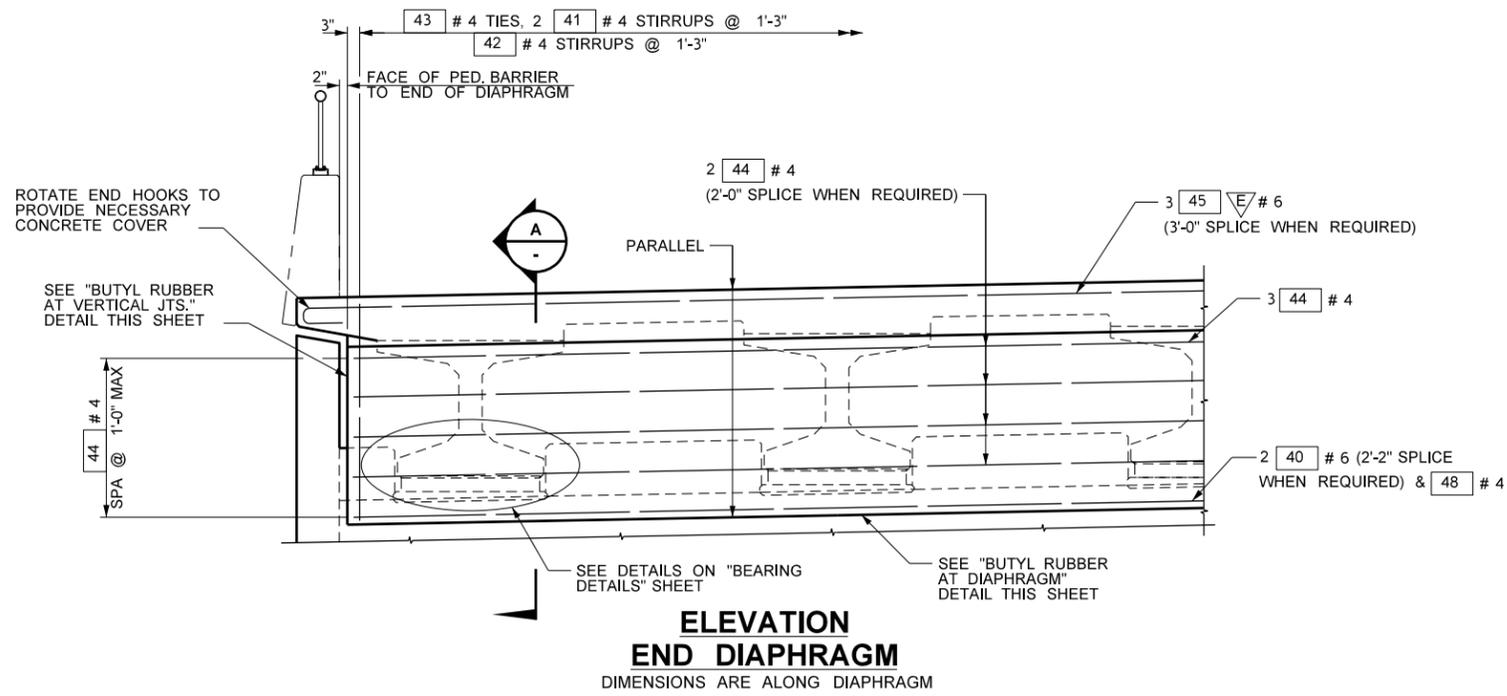
DIMENSION "A" AT C OF BEARING = 11"																								
SPAN	GIRDER	END 1 TYPE	END 2 TYPE	A	L	LL	LT	θ ₁ (DEG.)	θ ₂ (DEG.)	P ₁	P ₂	PLAN LENGTH (ALONG GIRDER GRADE)	MIN. CONC. COMP. STRENGTH		STRAIGHT STRAND		HAPPED STRAND		LOCATION OF C.G. STRANDS			C	D	
													FINAL @ LC (KSI)	RELEASE @ FCI (KSI)	NO. OF STRANDS	JACKING FORCE (kips)	NO. OF STRANDS	JACKING FORCE (kips)	E	F _l	F _o		LOWER BOUND @ 40 DAYS	UPPER BOUND @ 120 DAYS
1	A	A	D	10 1/2"	3'-0"	3'-0"	3'-0"	78°	78°	1'-6 1/2"	-	77'-9"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
2	A	D	A	10 1/2"	3'-0"	3'-0"	3'-0"	78°	78°	-	1'-6 1/2"	77'-9"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
1	B	A	D	10 1/2"	3'-0"	3'-0"	3'-0"	80°	80°	1'-6 1/2"	-	77'-4 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
2	B	D	A	10 1/2"	3'-0"	3'-0"	3'-0"	80°	80°	-	1'-6 1/2"	77'-4 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
1	C	A	D	10 1/2"	3'-0"	3'-0"	3'-0"	82°	82°	1'-6 1/2"	-	77'-0 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
2	C	D	A	10 1/2"	3'-0"	3'-0"	3'-0"	82°	82°	-	1'-6 1/2"	77'-0 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
1	D	A	D	10 1/2"	3'-0"	3'-0"	3'-0"	83°	83°	1'-6 1/2"	-	76'-9"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
2	D	D	A	10 1/2"	3'-0"	3'-0"	3'-0"	83°	83°	-	1'-6 1/2"	76'-9"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
1	E	A	D	10 1/2"	3'-0"	3'-0"	3'-0"	85°	85°	1'-6 1/2"	-	76'-6 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
2	E	D	A	10 1/2"	3'-0"	3'-0"	3'-0"	85°	85°	-	1'-6 1/2"	76'-6 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
1	2	F	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	G	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	H	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	I	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	J	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	K	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	L	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	M	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	N	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	O	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	P	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	Q	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	R	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	2	S	A	D	10 1/2"	3'-0"	3'-0"	86°	86°	1'-6 1/2"	-	76'-4 1/2"	7.6	5.9	26	1143	7	308	2 3/4"	4"	6 5/8"	1 1/4"	1 1/2"	3 1/2"
1	T	A	D	10 1/2"	3'-0"	3'-0"	3'-0"	85°	85°	1'-6 1/2"	-	76'-6 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
2	T	D	A	10 1/2"	3'-0"	3'-0"	3'-0"	85°	85°	-	1'-6 1/2"	76'-6 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
1	U	A	D	10 1/2"	3'-0"	3'-0"	3'-0"	83°	83°	1'-6 1/2"	-	76'-8 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
2	U	D	A	10 1/2"	3'-0"	3'-0"	3'-0"	83°	83°	-	1'-6 1/2"	76'-8 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
1	V	A	D	10 1/2"	3'-0"	3'-0"	3'-0"	82°	82°	1'-6 1/2"	-	76'-11 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
2	V	D	A	10 1/2"	3'-0"	3'-0"	3'-0"	82°	82°	-	1'-6 1/2"	76'-11 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
1	W	A	D	10 1/2"	3'-0"	3'-0"	3'-0"	81°	81°	1'-6 1/2"	-	77'-2 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
2	W	D	A	10 1/2"	3'-0"	3'-0"	3'-0"	81°	81°	-	1'-6 1/2"	77'-3"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
1	X	A	D	10 1/2"	3'-0"	3'-0"	3'-0"	79°	79°	1'-6 1/2"	-	77'-6 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
2	X	D	A	10 1/2"	3'-0"	3'-0"	3'-0"	79°	79°	-	1'-6 1/2"	77'-7"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
1	Y	A	D	10 1/2"	3'-0"	3'-0"	3'-0"	78°	78°	1'-6 1/2"	-	77'-11 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"
2	Y	D	A	10 1/2"	3'-0"	3'-0"	3'-0"	78°	78°	-	1'-6 1/2"	77'-11 1/2"	8.1	6.6	30	1318	6	264	2 7/8"	4"	6"	1 1/4"	1 1/2"	3 1/8"

NOTE:
 "C" IS DECK SCREED CAMBER AT MIDSPAN (TO ACCOUNT FOR DEFLECTION DUE TO SLAB PLACEMENT AND SUPERIMPOSED DEAD LOADS). SEE DETAIL "SCREED SETTING DIMENSIONS" ON BR??.

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_GIR_1.dgn				FED.AID PROJ.NO.	
TIME 6:02:01 PM	DATE 10/25/2012	PLOTTED BY valenalv	DESIGNED BY J. MERTH	ENTERED BY V. SCHICCHI	CHECKED BY R. MURRAY
PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG	REVISION	DATE	BY	
REGION NO. 10	STATE WASH	JOB NUMBER	CONTRACT NO.	LOCATION NO.	



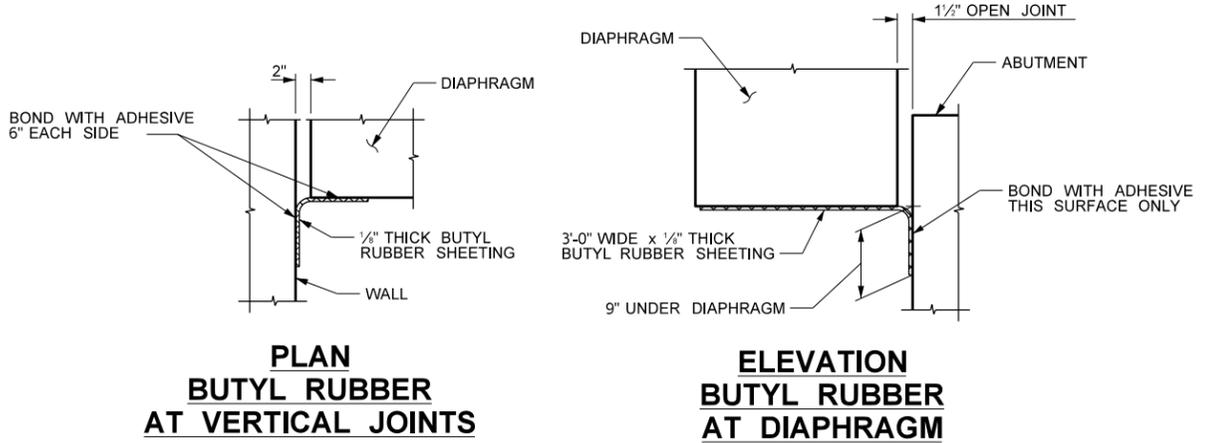
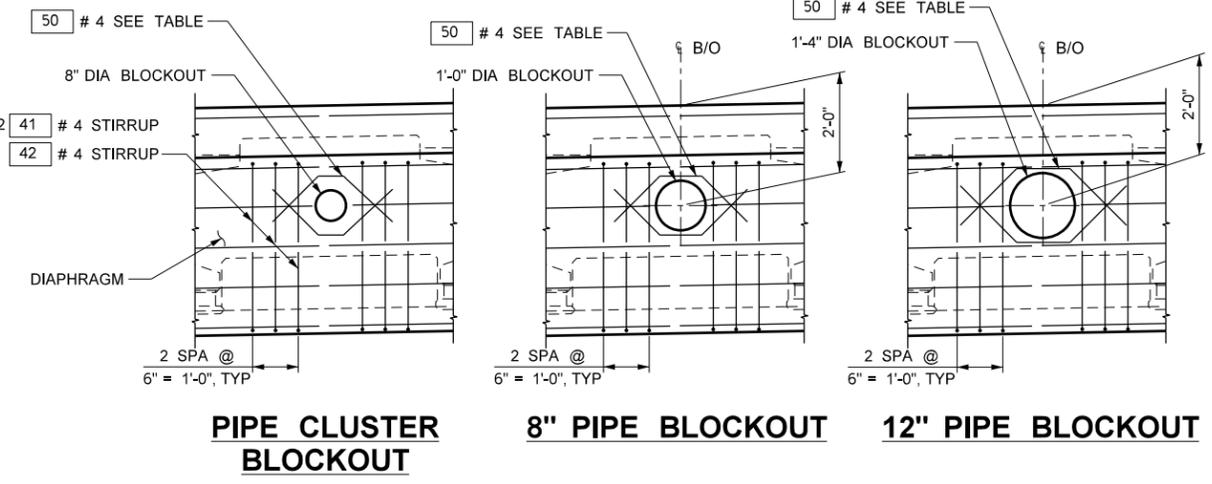
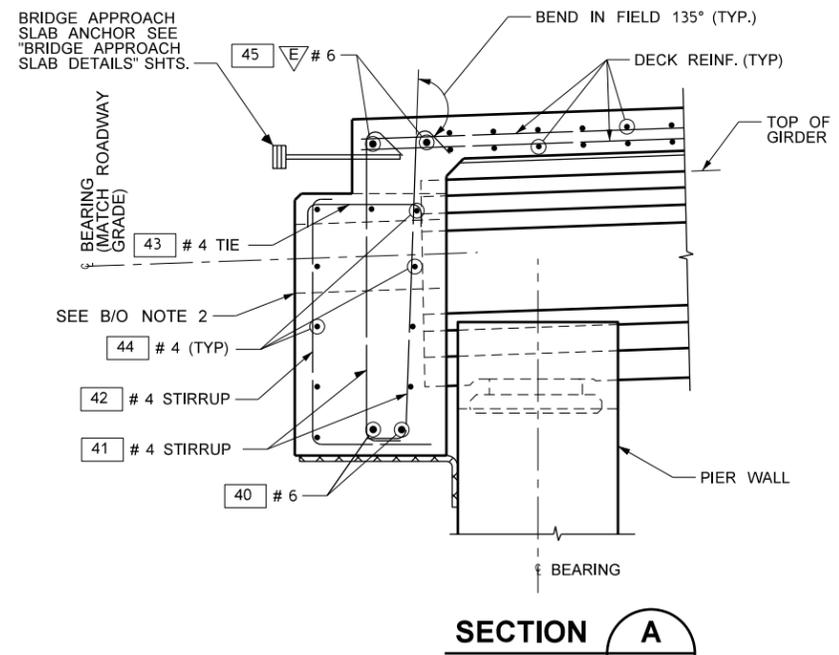
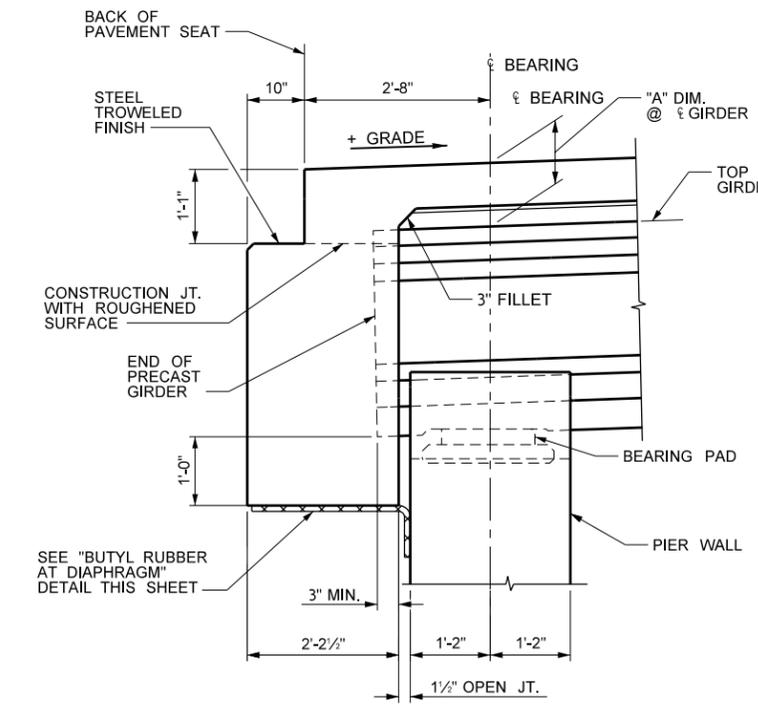
I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 3 PLAN REF NO BR41
WF36G GIRDER - DETAILS 3 OF 3		SHEET OF SHEETS



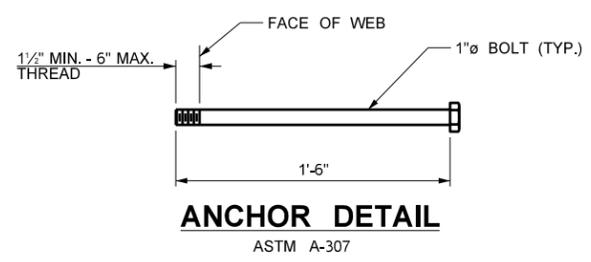
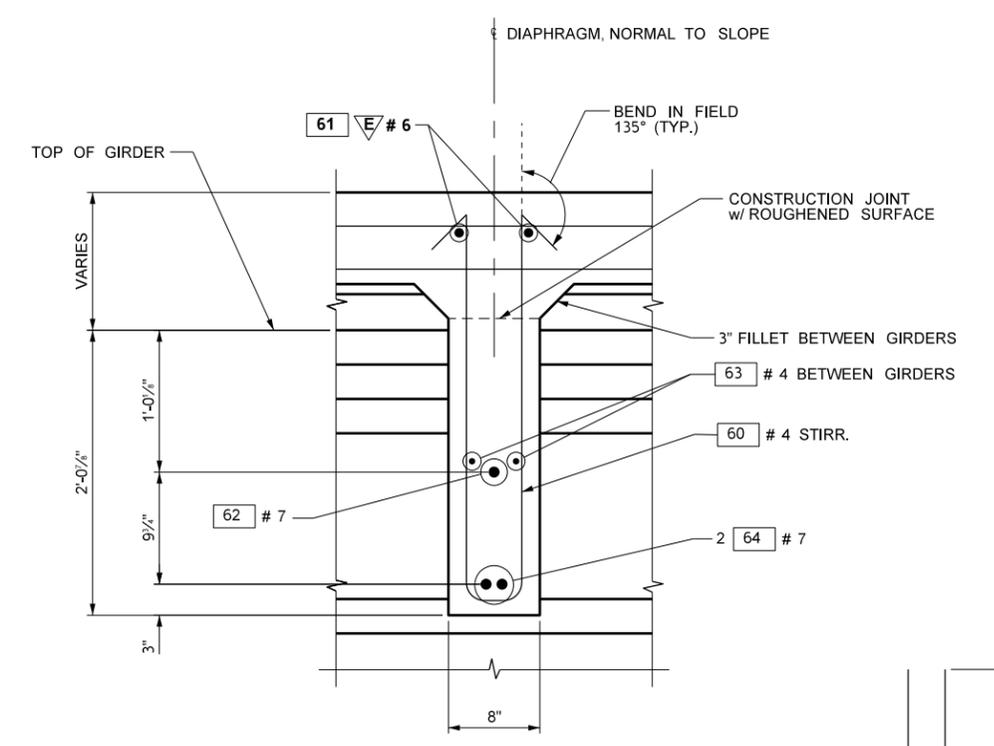
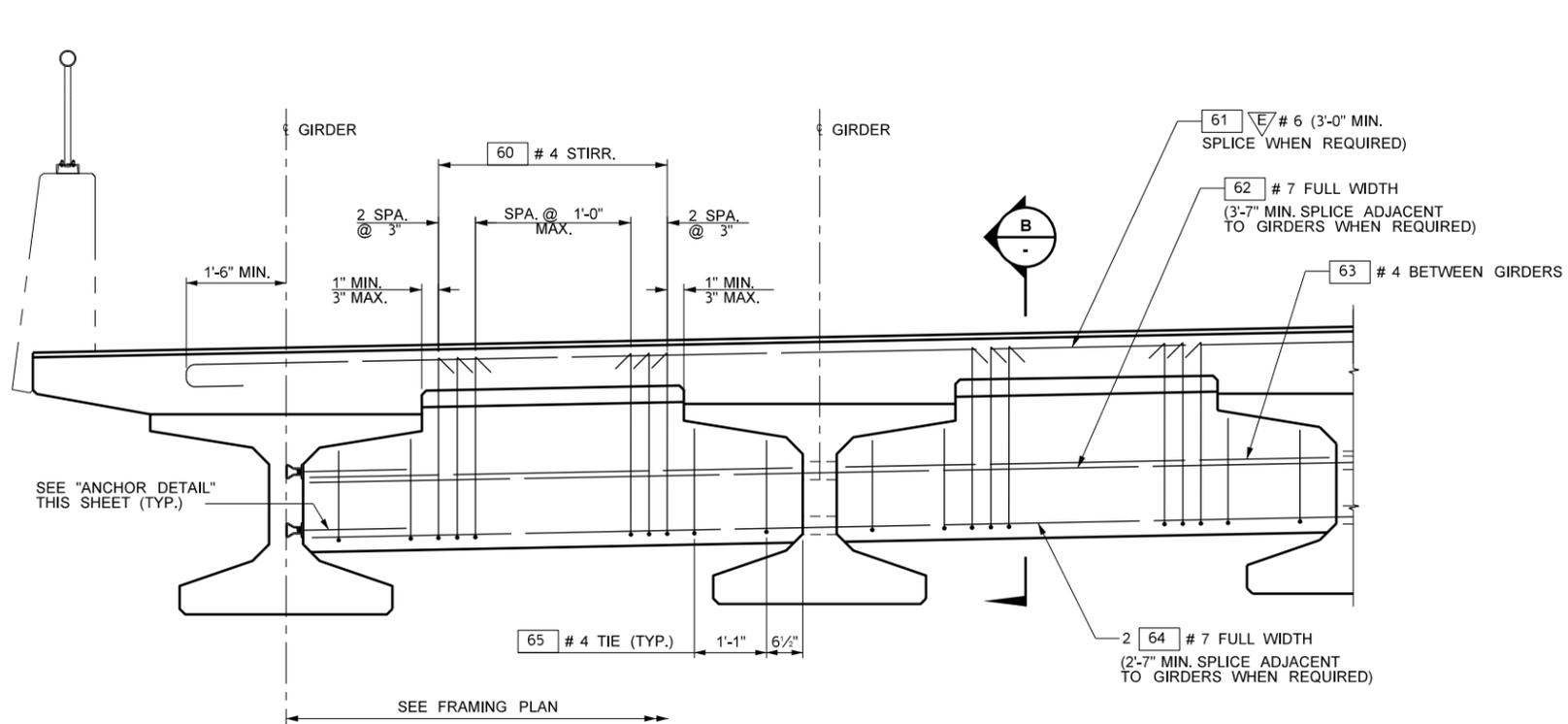
- NOTES:**
- GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.
 - CUT/RELEASE GIRDER TEMPORARY STRANDS BEFORE CASTING DIAPHRAGM. SEE TEMPORARY STRAND CUTTING SEQUENCE.
 - EXTENDED STRANDS AND GIRDER REINFORCING NOT SHOWN FOR CLARITY.

- BLOCKOUT NOTES:**
- FOR BLOCKOUT LOCATIONS SEE BR SHEET BR18.
 - SEAL EXIT END OF BLOCKOUT W/ AN APPROVED SILICONE SEALANT (TYP.)

BO	A	B	C
4"	1'-0"	1'-0"	1'-0"
8"	1'-1"	1'-0"	1'-0"
12"	1'-1"	1'-2"	1'-2"

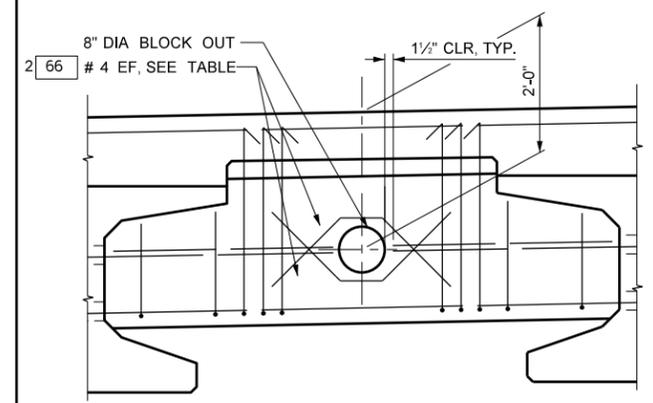


FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_END_DIAPH.dgn			REGION NO.	STATE	FED.AID PROJ.NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS END DIAPHRAGM DETAILS	Plot 1
TIME	6:02:44 PM			10	WASH					PLAN REF NO BR42
DATE	10/25/2012			JOB NUMBER					SHEET	
PLOTTED BY	valenalv			CONTRACT NO.		LOCATION NO.			OF	
DESIGNED BY	J. MERTH								SHEETS	
ENTERED BY	V. SCHICCHI									
CHECKED BY										
PROJ. ENGR.										
REGIONAL ADM.	L. ENG	REVISION	DATE	BY						

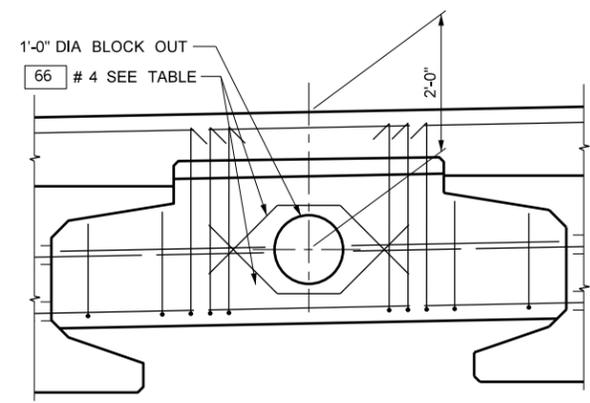


**ELEVATION
INTERMEDIATE DIAPHRAGM**
DIMENSIONS ARE ALONG DIAPHRAGM

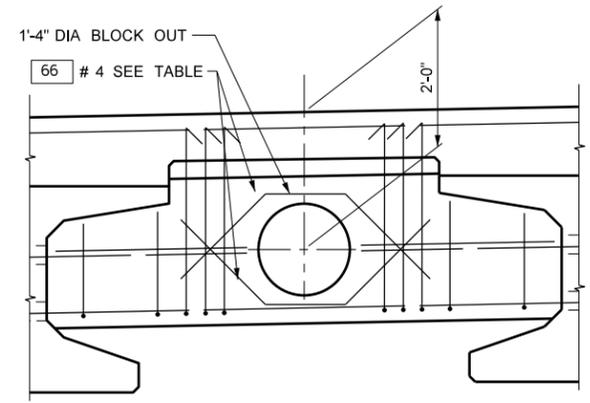
BO	A	B	C
4"	1'-0"	1'-0"	1'-0"
8"	11"	1'-0"	1'-0"
12"	1'-1"	1'-2"	1'-2"



**PIPE CLUSTER
BLOCKOUT**



8\"/>



12\"/>

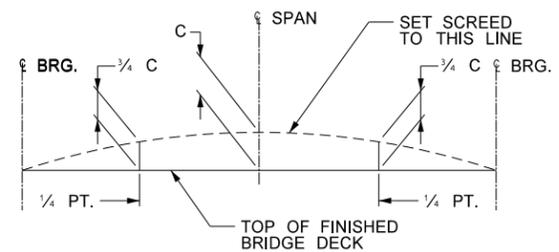
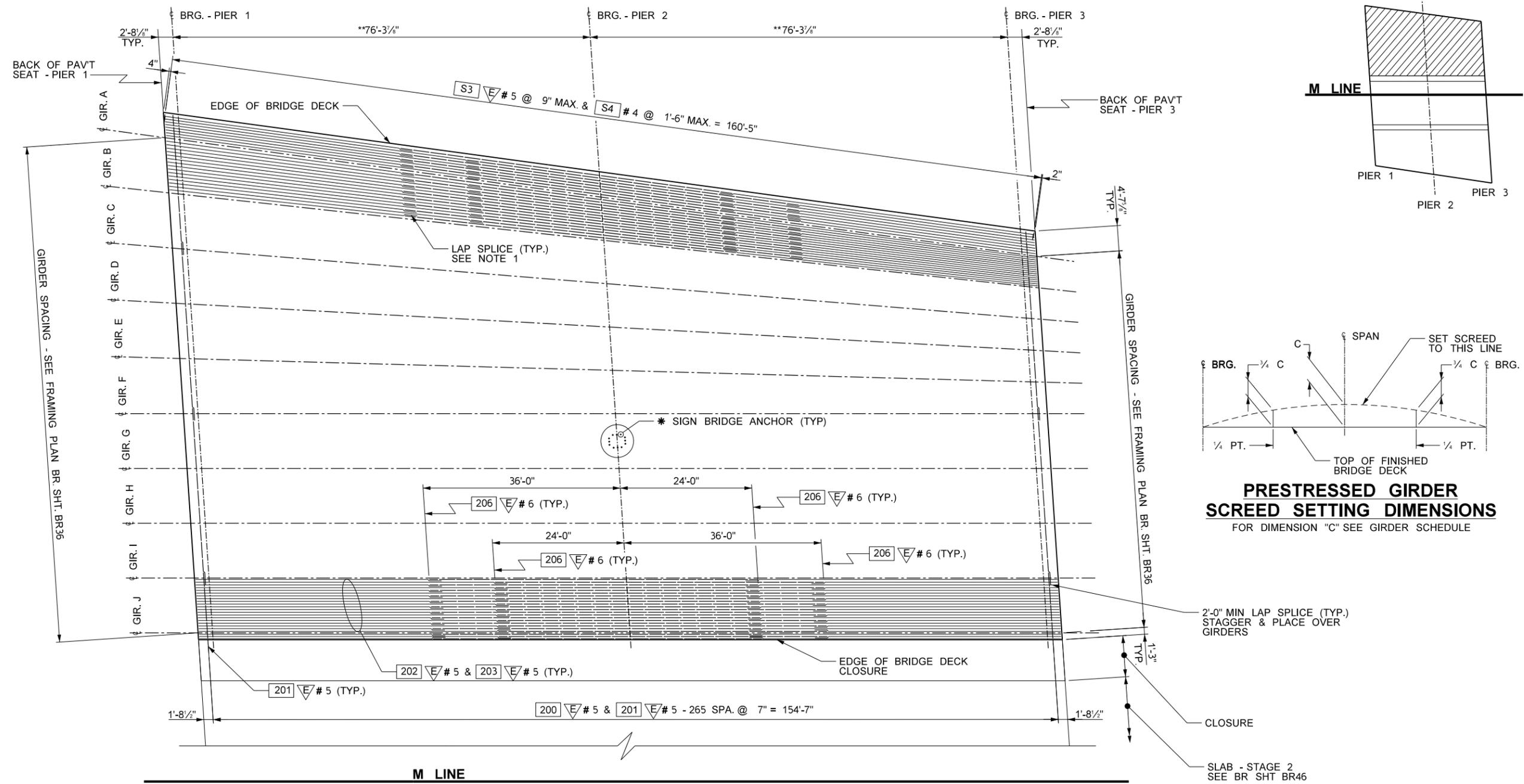
NOTES:

- GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.
- IT MAY BE NECESSARY TO THREAD #7 REINFORCING BARS THROUGH HOLES IN GIRDERS PRIOR TO PLACING EXTERIOR GIRDERS.
- LONGITUDINAL DIMENSIONS ARE NORMAL TO SKEW.
- FOR CONCRETE PLACEMENT PROCEDURE SEE "SUPERSTRUCTURE CONSTRUCTION SEQUENCE" SHEET.
- CONTRACTOR TO SLOPE BLOCK OUTS TO MATCH PIPE PROFILES.

BLOCKOUT NOTE:

- FOR BLOCKOUT LOCATIONS SEE BR SHEET BR18.

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_INT_DIAPH.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	PLAN REF NO
TIME 9:59:09 AM	DATE 10/26/2012	10	WASH						BR43
PLOTTED BY valenalv	DESIGNED BY J. MERTH	JOB NUMBER		LOCATION NO.				SHEET	
ENTERED BY V. SCHICCHI	CHECKED BY	CONTRACT NO.						OF	
PROJ. ENGR.	REGIONAL ADM. L. ENG	REVISION	DATE	BY				SHEETS	



**PRESTRESSED GIRDER
SCREED SETTING DIMENSIONS**
FOR DIMENSION "C" SEE GIRDER SCHEDULE

BOTTOM MAT REINFORCEMENT - STAGE 1

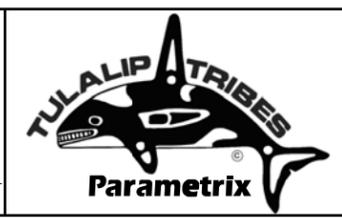
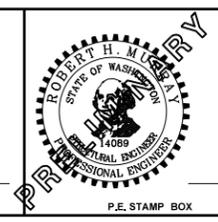
- * ADJUST DECK REINFORCEMENT TO AVOID SIGN BRIDGE ANCHORS
- ** MEASURED ALONG M LINE

SPLICE NOTES:

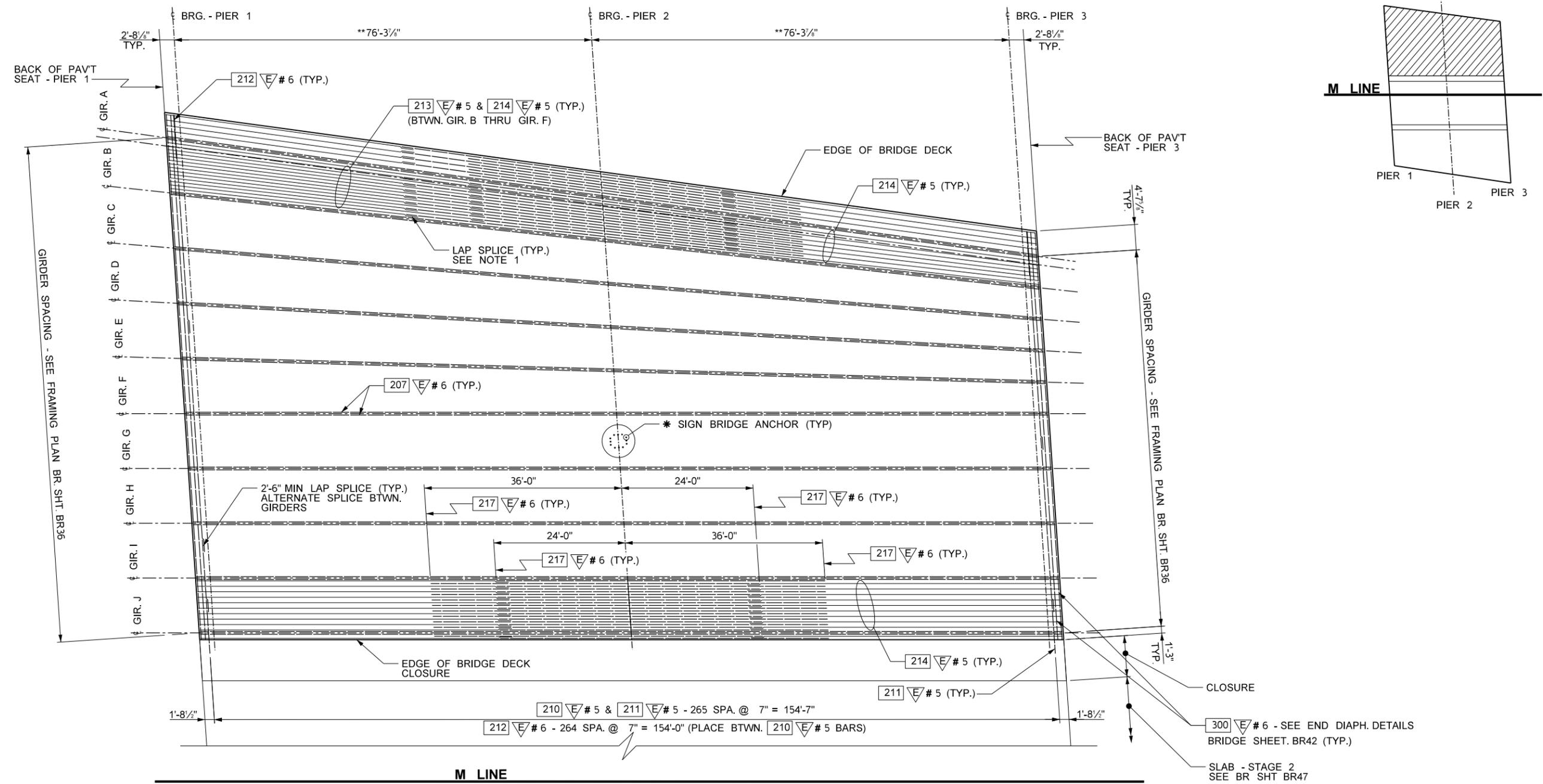
1. MINIMUM REBAR SPLICE LENGTH FOR #5 IS 2'-0" & #7 IS 2'-0".
2. LOCATION OF LONGIT. REBAR SPLICES AT CONTRACTORS OPTION. EXCEPT REBAR SHALL NOT BE SPLICED WITHIN 36'-0" OF PIER 2 EXCEPT AS NOTED. ALL SPLICES SHALL BE ALTERNATED, SO NOT MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION NORMAL TO M LINE.

SCREED SETTING DIMENSIONS

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3\99Svc\CADD\Bridge\100% Plans\BL 1598033_BG_SLAB_1.dgn				REGION NO. STATE		FED.AID PROJ.NO.		Plot 1	
TIME 10:47:32 AM				10 WASH				PLAN REF NO	
DATE 10/26/2012				JOB NUMBER				BR44	
PLOTTED BY valenalv				CONTRACT NO.		LOCATION NO.		SHEET	
DESIGNED BY J. MERTH								OF	
ENTERED BY V. SCHICCHI								SHEETS	
CHECKED BY R. MURRAY									
PROJ. ENGR. R.A. LEWIS									
REGIONAL ADM. L. ENG				REVISION		DATE BY			



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
SLAB PLAN - STAGE 1



SCREED SETTING DIMENSIONS

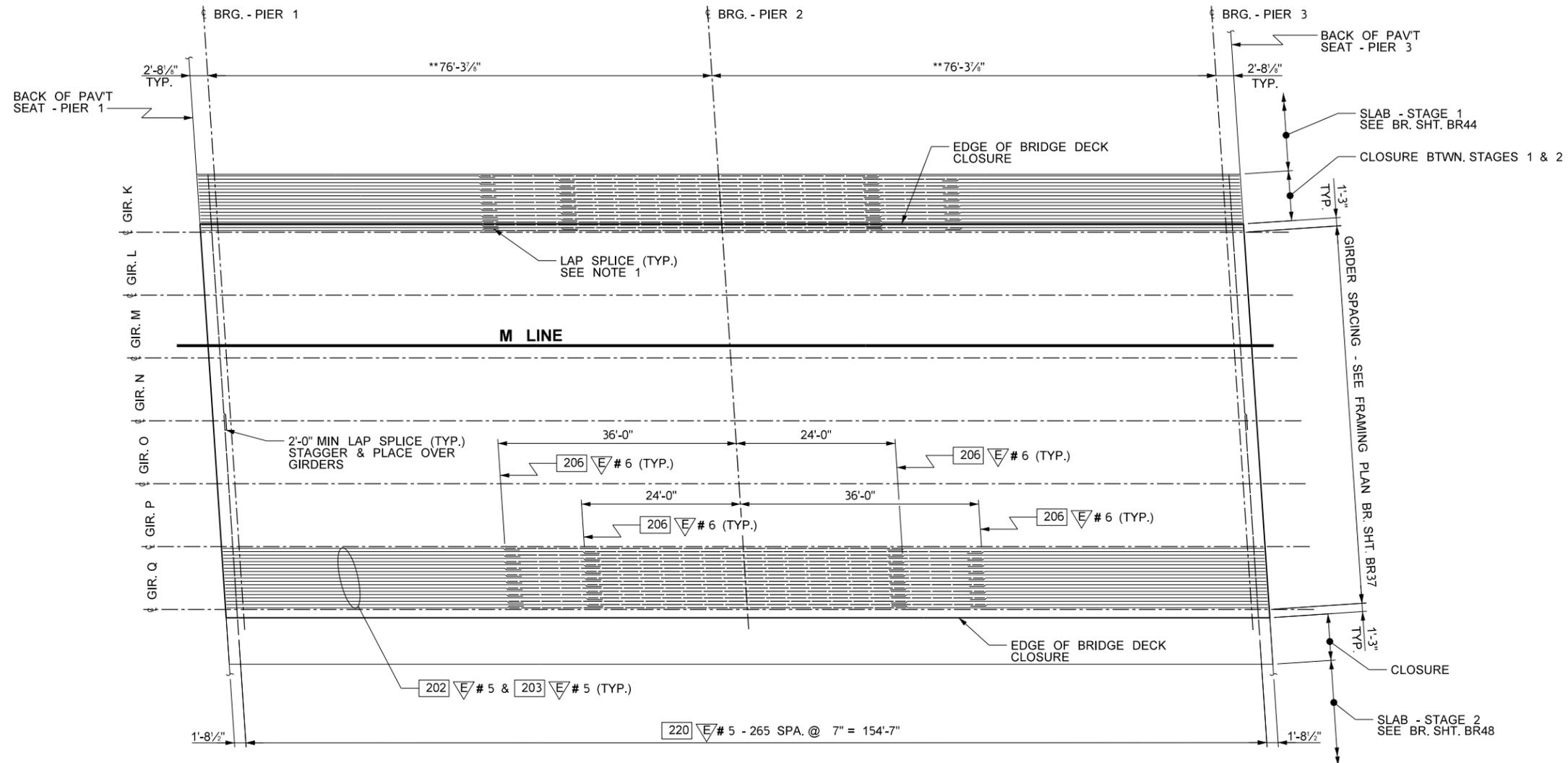
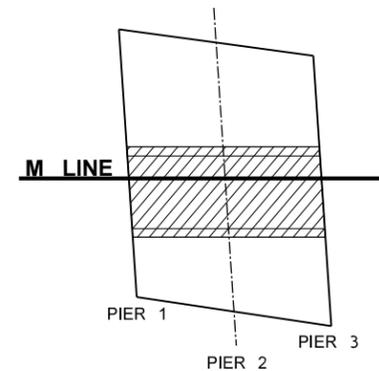
TOP MAT REINFORCEMENT - STAGE 1

- * ADJUST DECK REINFORCEMENT TO AVOID SIGN BRIDGE ANCHORS
- ** MEASURED ALONG M LINE

SPLICE NOTES:

1. MINIMUM REBAR SPLICE LENGTH FOR #5 IS 2'-0" & #6 IS 2'-0".
2. LOCATION OF LONGIT. REBAR SPLICES AT CONTRACTORS OPTION. EXCEPT REBAR SHALL NOT BE SPLICED WITHIN 36'-0" OF PIER 2 EXCEPT AS NOTED. ALL SPLICES SHALL BE ALTERNATED, SO NOT MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION NORMAL TO M LINE.

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_SLAB_1.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 2
TIME 3:17:40 PM	DATE 10/31/2012	10	WASH					PLAN REF NO BR45		
PLOTTED BY valenalv	DESIGNED BY J. MERTH	JOB NUMBER		LOCATION NO.				SLAB PLAN - STAGE 1		SHEET
ENTERED BY V. SCHICCHI	CHECKED BY R. MURRAY	CONTRACT NO.								OF
PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG	REVISION	DATE	BY						SHEETS



BOTTOM MAT REINFORCEMENT - STAGE 2

** MEASURED ALONG M LINE

SPLICE NOTES:

1. MINIMUM REBAR SPLICE LENGTH FOR #5 IS 2'-0" & #6 IS 2'-0".
2. LOCATION OF LONGIT. REBAR SPLICES AT CONTRACTORS OPTION. EXCEPT REBAR SHALL NOT BE SPLICED WITHIN 36'-0" OF PIER 2 EXCEPT AS NOTED. ALL SPLICES SHALL BE ALTERNATED SO NOT MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION NORMAL TO M LINE.

SCREED SETTING DIMENSIONS

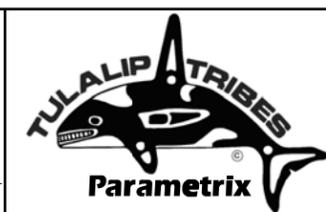
FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svc\CADD\Bridge\100% Plans\BL 1598033_BG_SLAB_1.dgn				
TIME	10:48:32 AM	REGION NO.	10	STATE	WASH
DATE	10/26/2012	JOB NUMBER		FED.AID PROJ.NO.	
PLOTTED BY	valenalv	CONTRACT NO.		LOCATION NO.	
DESIGNED BY	J. MERTH	REVISION		DATE	BY
ENTERED BY	V. SCHICCHI				
CHECKED BY	R. MURRAY				
PROJ. ENGR.	R.A. LEWIS				
REGIONAL ADM.	L. ENG				

P.E. STAMP BOX

DATE

P.E. STAMP BOX

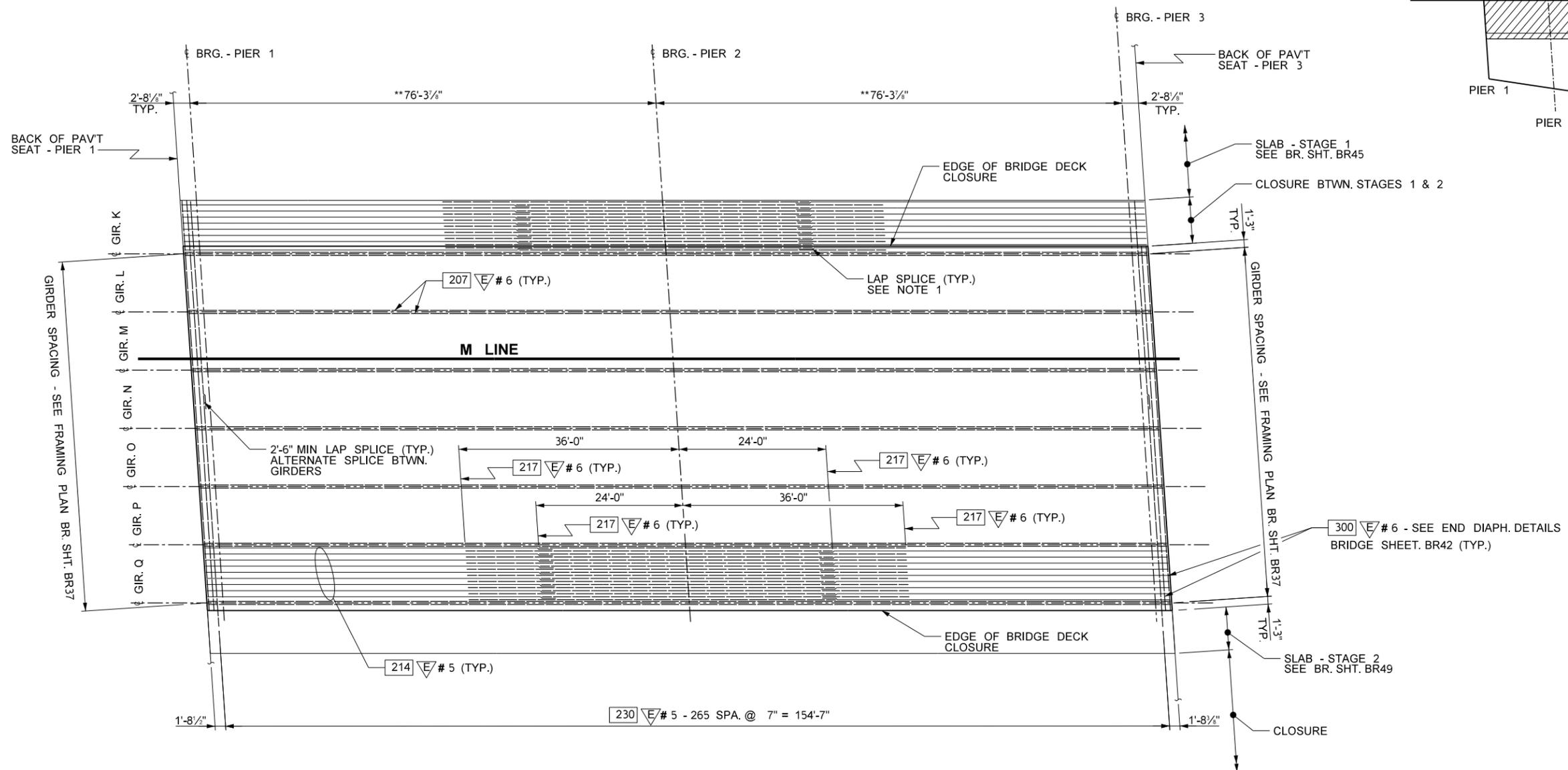
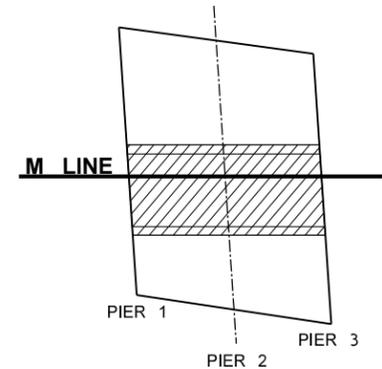
DATE



Plot 3
PLAN REF NO
BR46
SHEET
OF
SHEETS

I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

SLAB PLAN - STAGE 2



TOP MAT REINFORCEMENT - STAGE 2

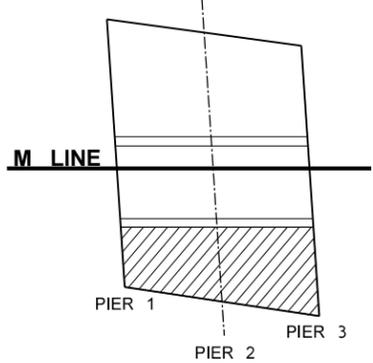
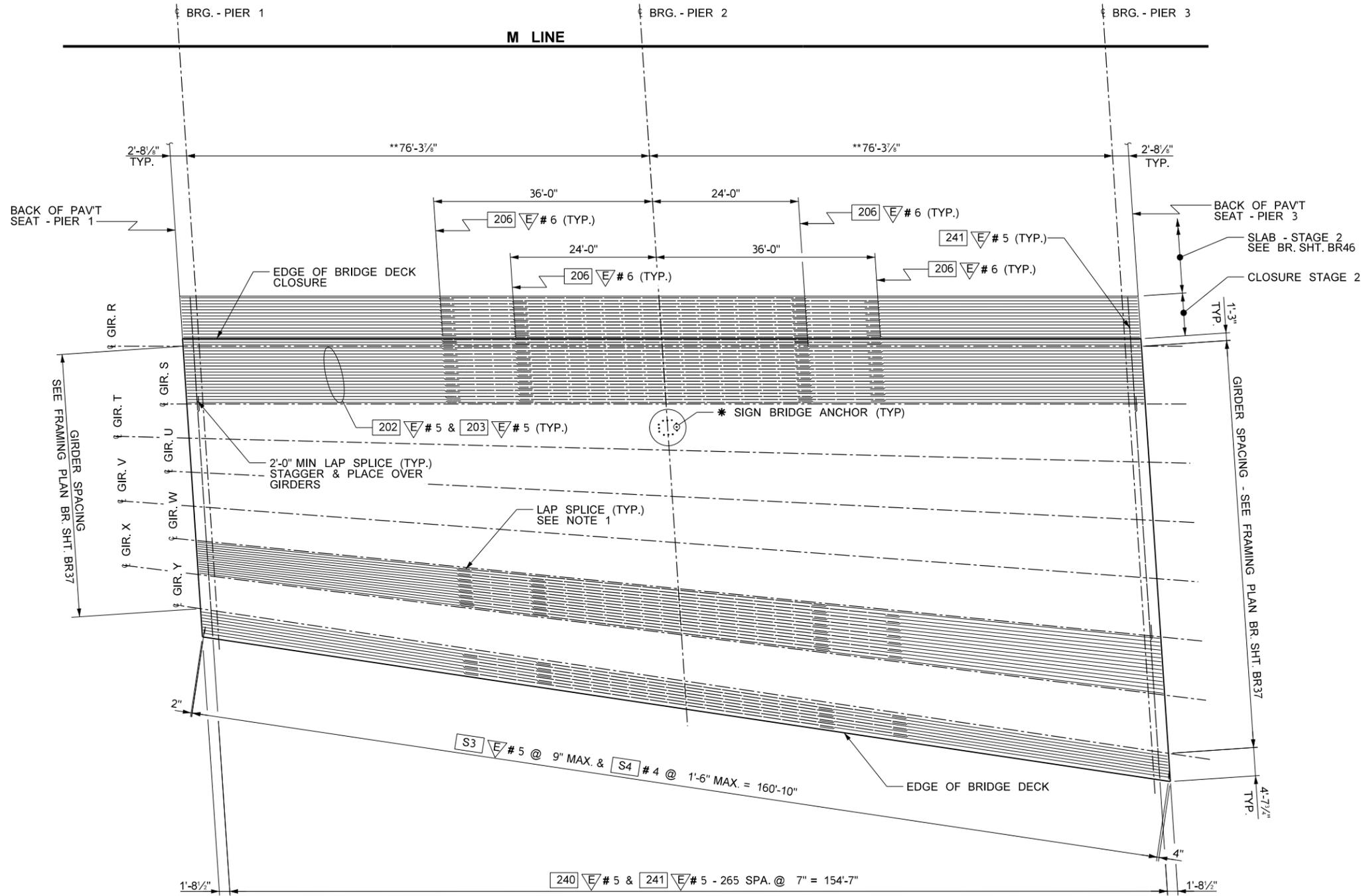
** MEASURED ALONG M LINE

SPLICE NOTES:

1. MINIMUM REBAR SPLICE LENGTH FOR #5 IS 2'-0" & #6 IS 2'-0".
2. LOCATION OF LONGIT. REBAR SPLICES AT CONTRACTORS OPTION, EXCEPT REBAR SHALL NOT BE SPLICED WITHIN 36'-0" OF PIER 2 EXCEPT AS NOTED. ALL SPLICES SHALL BE ALTERNATED SO NOT MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION NORMAL TO M LINE.

SCREED SETTING DIMENSIONS

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_SLAB_1.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 4
TIME 3:19:05 PM	DATE 10/31/2012	10	WASH						PLAN REF NO BR47
PLOTTED BY valenalv	DESIGNED BY J. MERTH	JOB NUMBER		CONTRACT NO.		LOCATION NO.		SHEET	
ENTERED BY V. SCHICCHI	CHECKED BY R. MURRAY	REVISION		DATE		BY		OF	
PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG	P.E. STAMP BOX		DATE		P.E. STAMP BOX		SHEETS	
SLAB PLAN - STAGE 2									



BOTTOM MAT REINFORCEMENT - STAGE 2

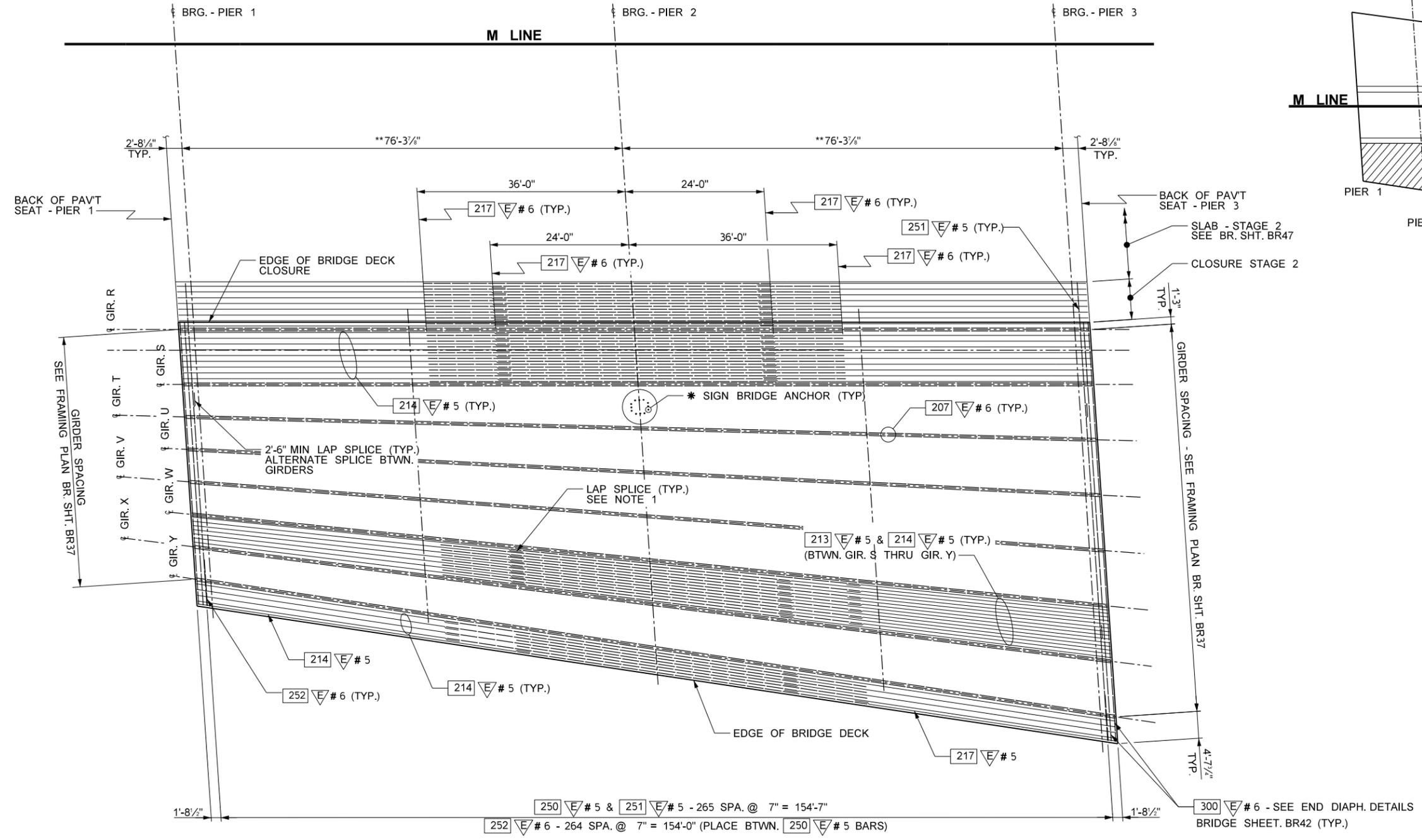
- * ADJUST DECK REINFORCEMENT TO AVOID SIGN BRIDGE ANCHORS
- ** MEASURED ALONG M LINE

SPLICE NOTES:

1. MINIMUM REBAR SPLICE LENGTH FOR #5 IS 2'-0" & #6 IS 2'-0".
2. LOCATION OF LONGIT. REBAR SPLICES AT CONTRACTORS OPTION, EXCEPT REBAR SHALL NOT BE SPLICED WITHIN 36'-0" OF PIER 2 EXCEPT AS NOTED. ALL SPLICES SHALL BE ALTERNATED SO NOT MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION NORMAL TO M LINE.

SCREED SETTING DIMENSIONS

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svc\1CADD\1Bridge\100% Plans\1598033_BG_SLAB_1.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 5
TIME 10:54:59 AM	DATE 10/26/2012	10	WASH					SLAB PLAN - STAGE 2		PLAN REF NO BR48
PLOTTED BY valenalv	DESIGNED BY J. MERTH	JOB NUMBER		LOCATION NO.					SHEET	
ENTERED BY V. SCHICCHI	CHECKED BY R. MURRAY	CONTRACT NO.							OF	
PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG	REVISION	DATE	BY					SHEETS	



TOP MAT REINFORCEMENT - STAGE 2

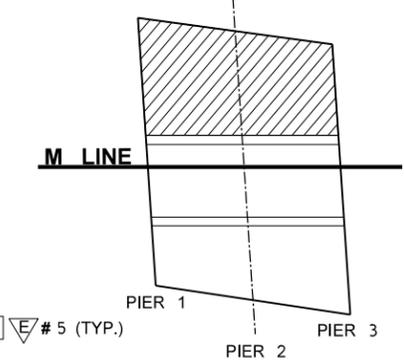
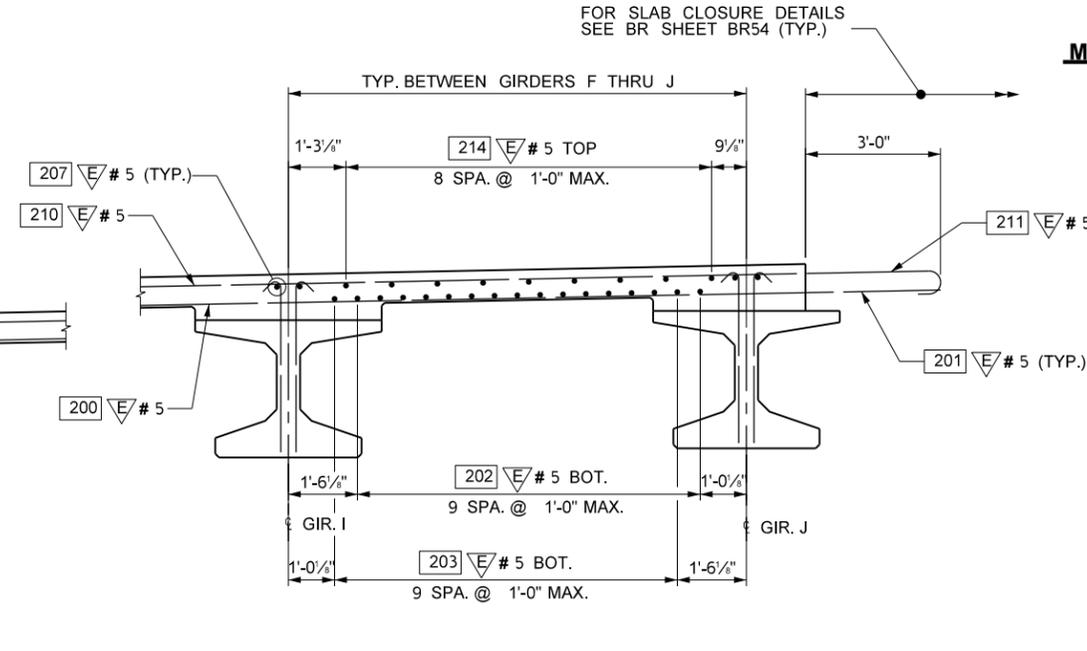
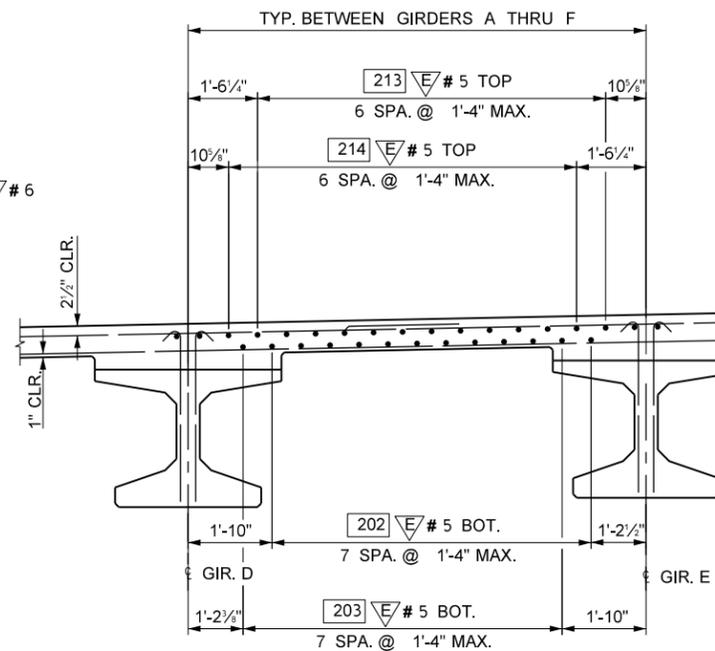
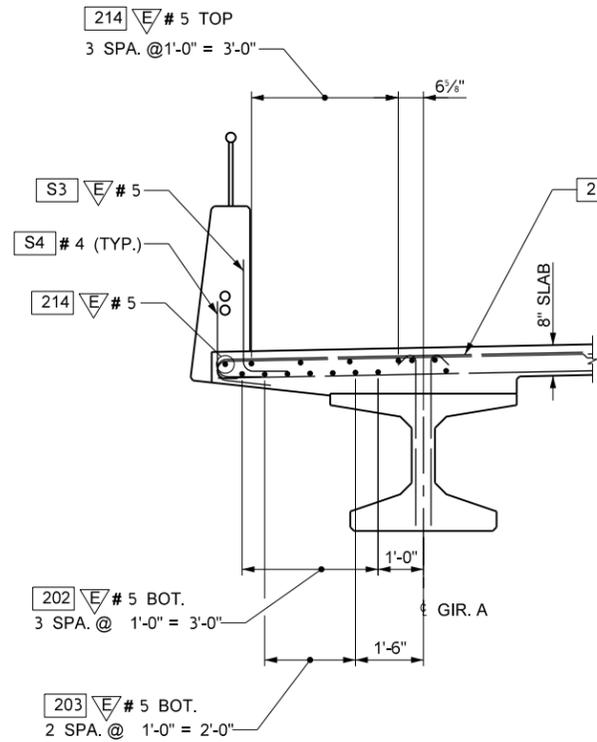
- * ADJUST DECK REINFORCEMENT TO AVOID SIGN BRIDGE ANCHORS
- ** MEASURED ALONG M LINE

SPLICE NOTES:

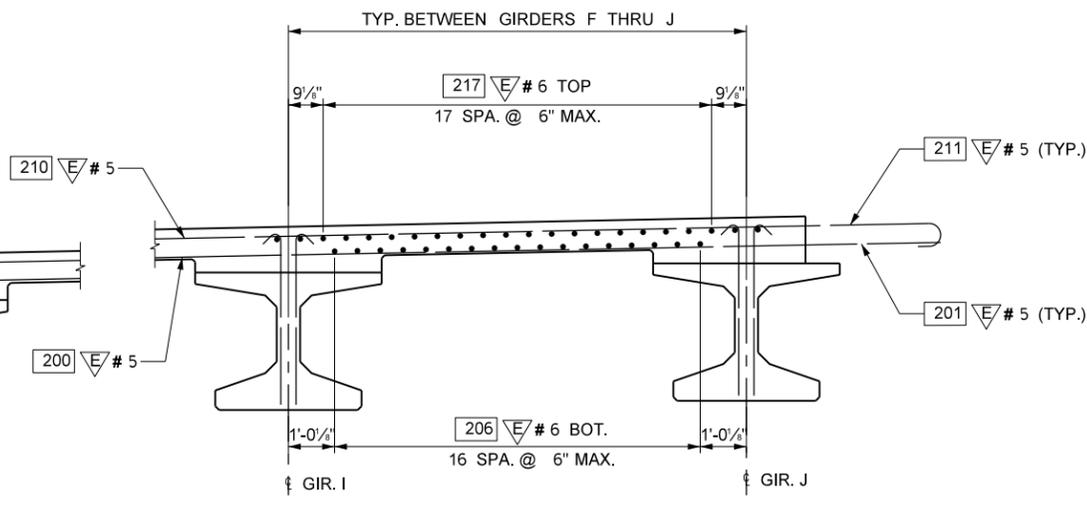
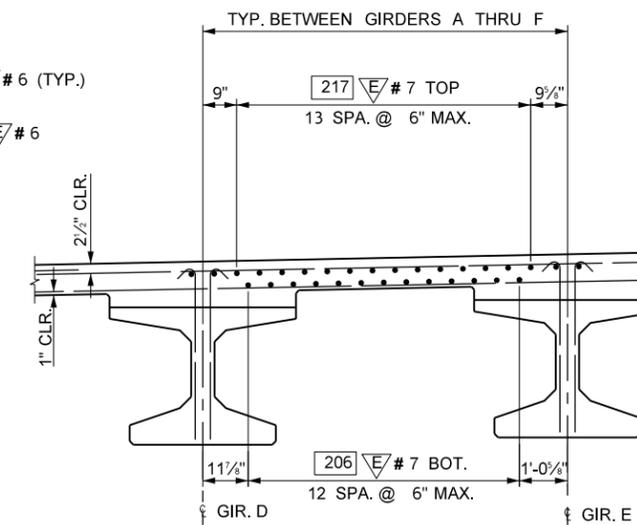
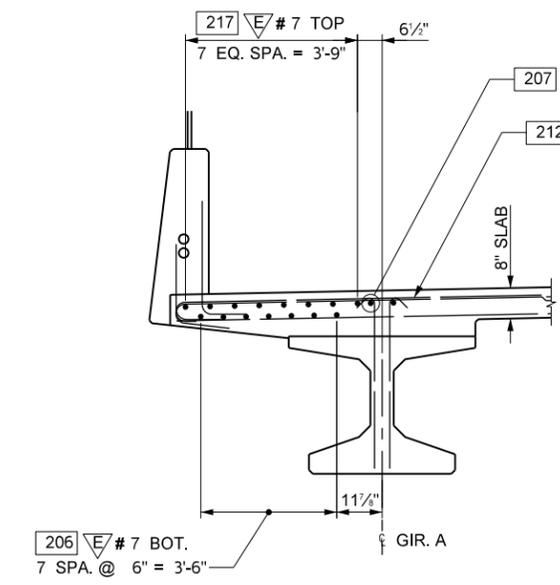
1. MINIMUM REBAR SPLICE LENGTH FOR #5 IS 2'-0" & #6 IS 2'-0".
2. LOCATION OF LONGIT. REBAR SPLICES AT CONTRACTORS OPTION, EXCEPT REBAR SHALL NOT BE SPLICED WITHIN 36'-0" OF PIER 2 EXCEPT AS NOTED. ALL SPLICES SHALL BE ALTERNATED SO NOT MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION NORMAL TO M LINE.

SCREED SETTING DIMENSIONS

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_SLAB_1.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 6
TIME 3:22:17 PM	DATE 10/31/2012	10	WASH						PLAN REF NO BR49
PLOTTED BY valenalv	DESIGNED BY J. MERTH	JOB NUMBER		LOCATION NO.				SHEET	
ENTERED BY V. SCHICCHI	CHECKED BY R. MURRAY	CONTRACT NO.						OF	
PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG	REVISION	DATE	BY				SHEETS	

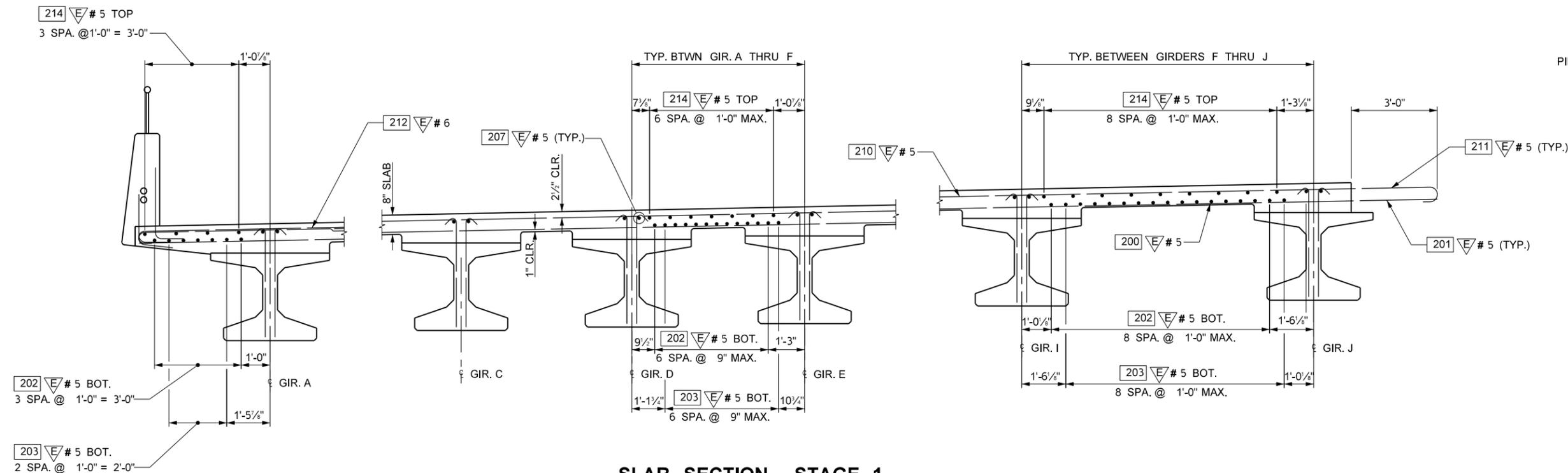
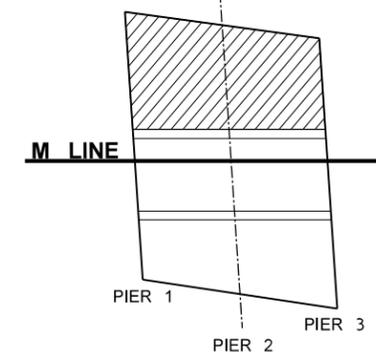


SLAB SECTION - STAGE 1
SHOWN NEAR PIER 1

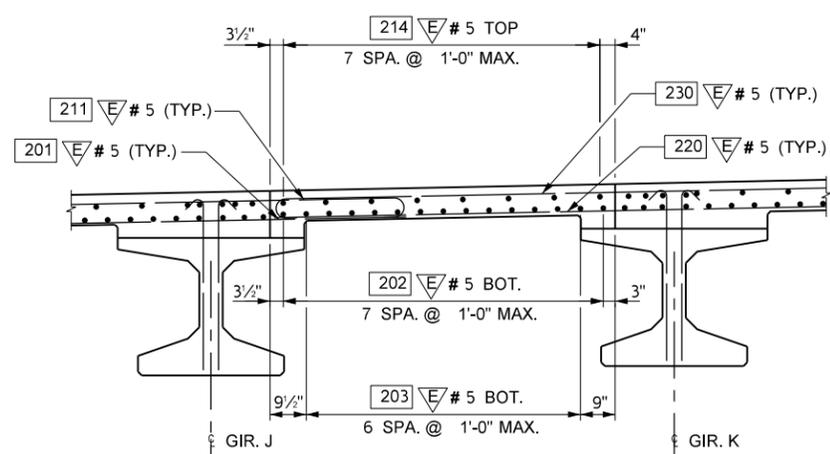


SLAB SECTION - STAGE 1
SHOWN NEAR PIER 2

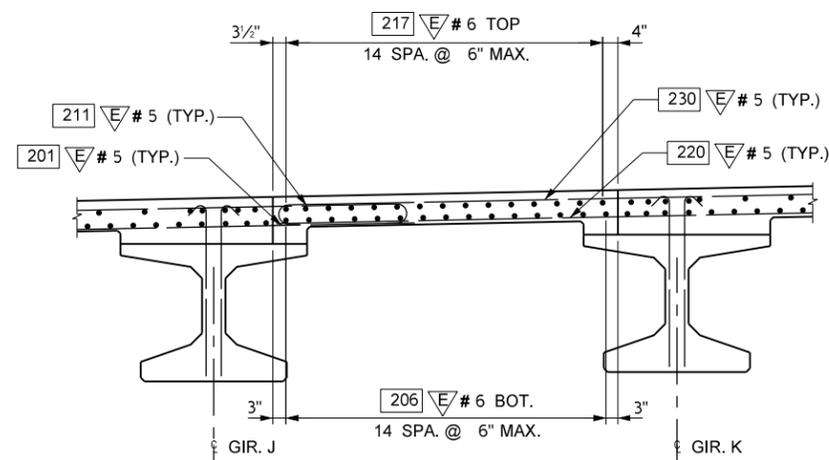
FILE NAME		U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svc\CADD\Bridge\100% Plans\BL 1598033_BG_SLAB_1.dgn		REGION NO.		STATE		FED.AID PROJ.NO.		ROBERT H. MURRAY STATE OF WASHINGTON PROFESSIONAL ENGINEER 14089		TULALIP TRIBES Parametrix		I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 7 PLAN REF NO BR50	
TIME		3:23:32 PM		10		WASH				DATE						SHEET	
DATE		10/31/2012								DATE						OF	
PLOTTED BY		valenalv								DATE						SHEETS	
DESIGNED BY		J. MERTH								DATE							
ENTERED BY		V. SCHICCHI								DATE							
CHECKED BY		R. MURRAY								DATE							
PROJ. ENGR.		R.A. LEWIS								DATE							
REGIONAL ADM.		L. ENG		REVISION		DATE		BY		P.E. STAMP BOX		DATE		P.E. STAMP BOX		SLAB SECTIONS - STAGE 1	



SLAB SECTION - STAGE 1
SHOWN NEAR PIER 3



SLAB CLOSURE
SHOWN NEAR PIERS 1 & 3



SLAB CLOSURE
SHOWN NEAR PIER 2

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh\3199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_SLAB_1.dgn			REGION NO.	STATE	FED.AID PROJ.NO.
TIME	11:01:10 AM			10	WASH	
DATE	10/26/2012			JOB NUMBER		
PLOTTED BY	valenalv			CONTRACT NO.		LOCATION NO.
DESIGNED BY	J. MERTH					
ENTERED BY	V. SCHICCHI					
CHECKED BY	R. MURRAY					
PROJ. ENGR.	R.A. LEWIS					
REGIONAL ADM.	L. ENG			REVISION	DATE	BY

DATE _____ P.E. STAMP BOX

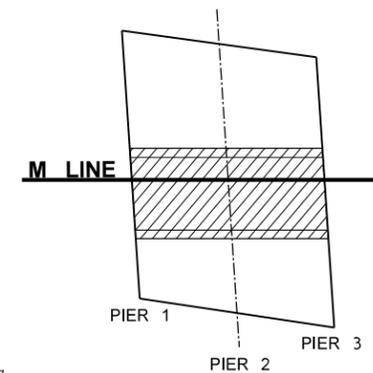
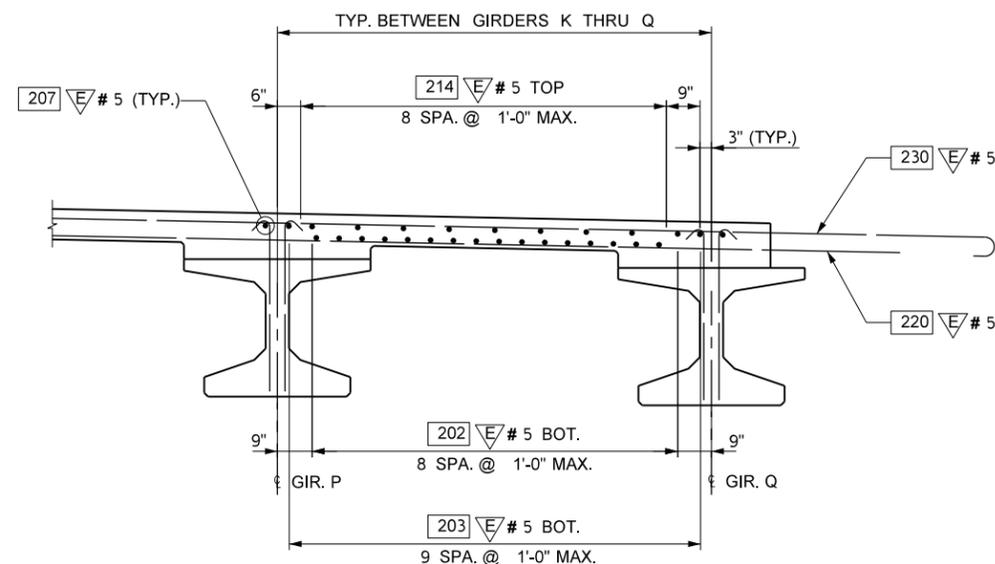
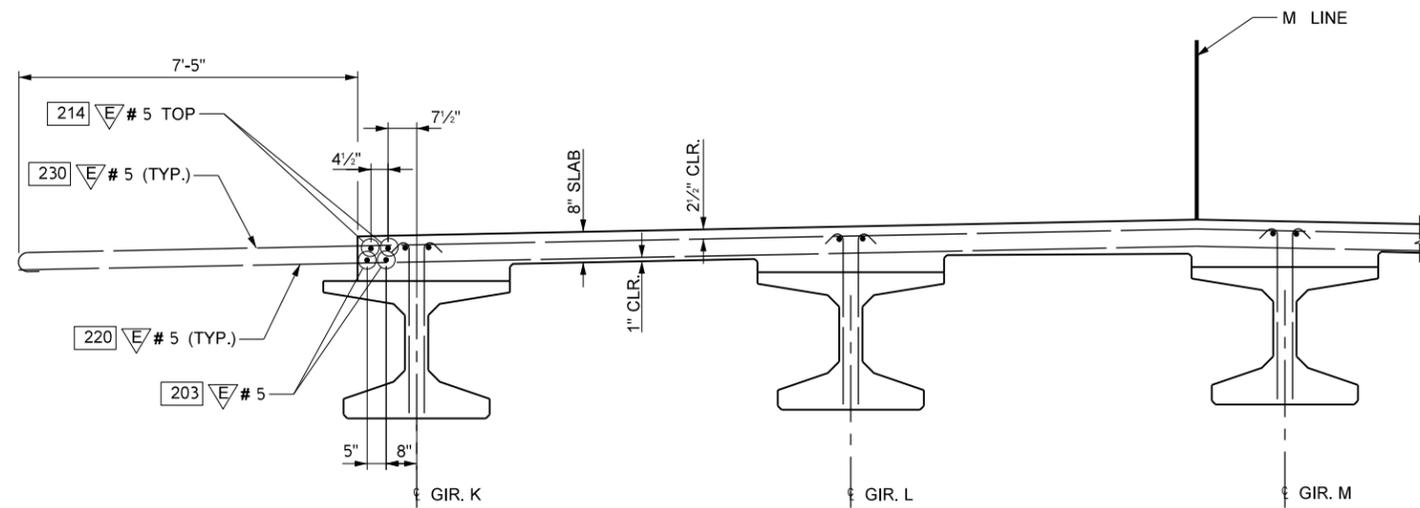
DATE _____ P.E. STAMP BOX



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

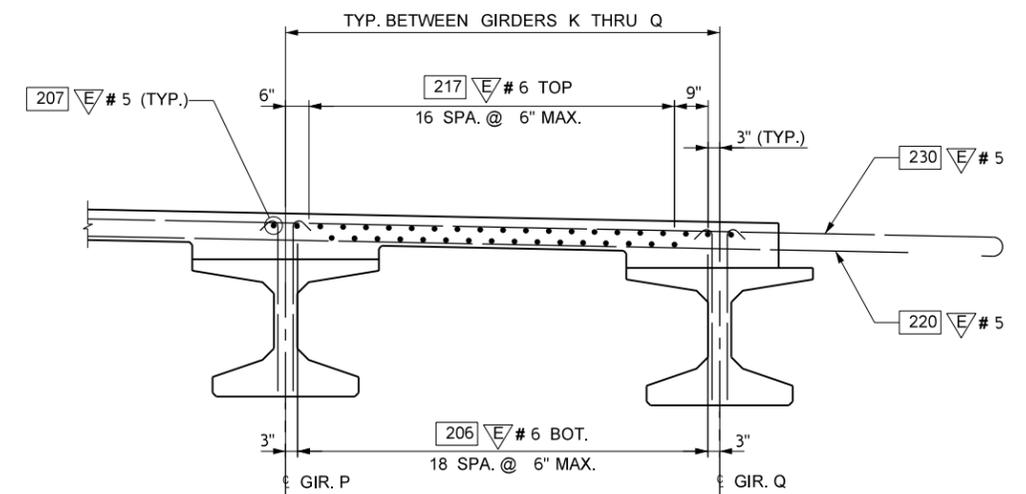
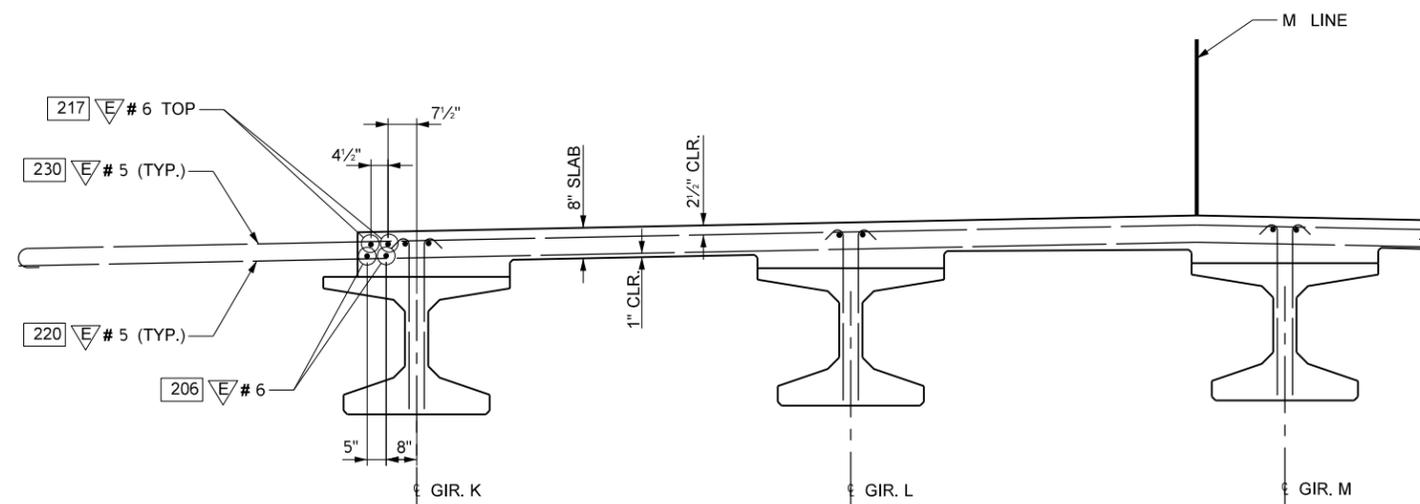
SLAB SECTION - STAGE 1

Plot 8
PLAN REF NO
BR51
SHEET
OF
SHEETS



SLAB SECTION - STAGE 2

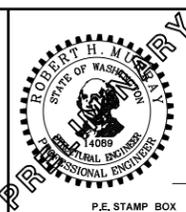
SHOWN NEAR PIER 1, PIER 3 SIMILAR



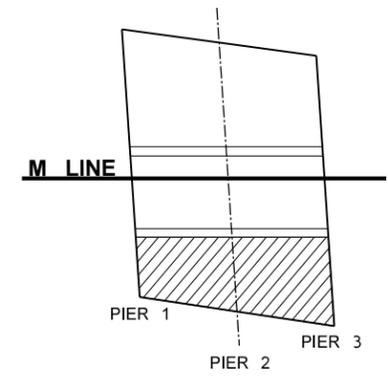
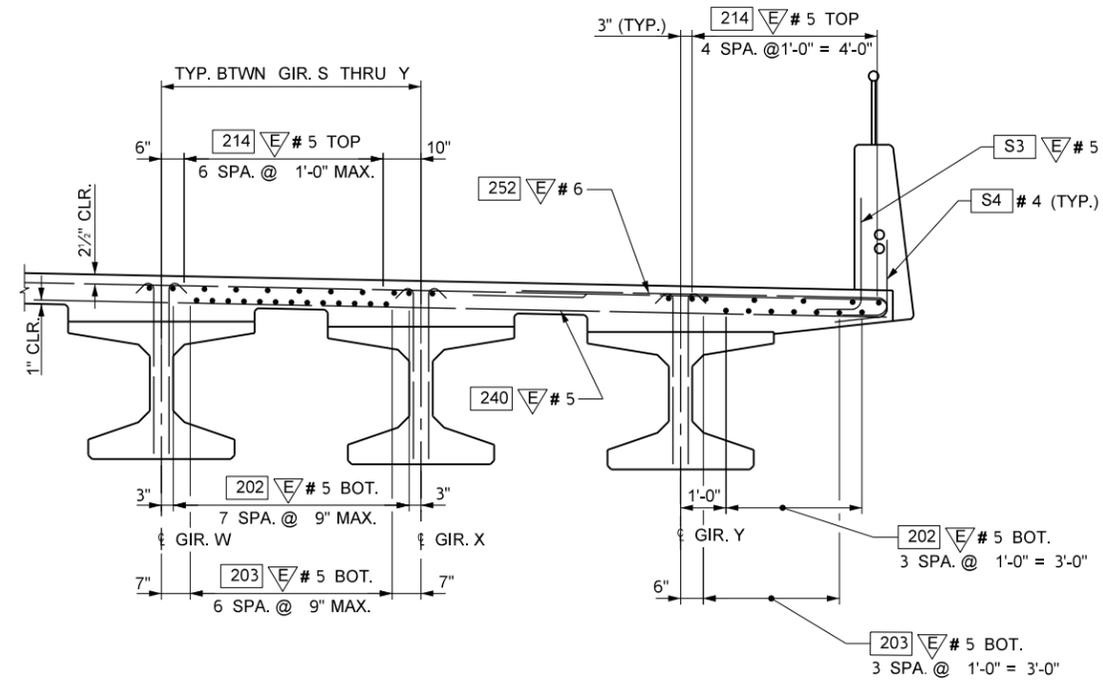
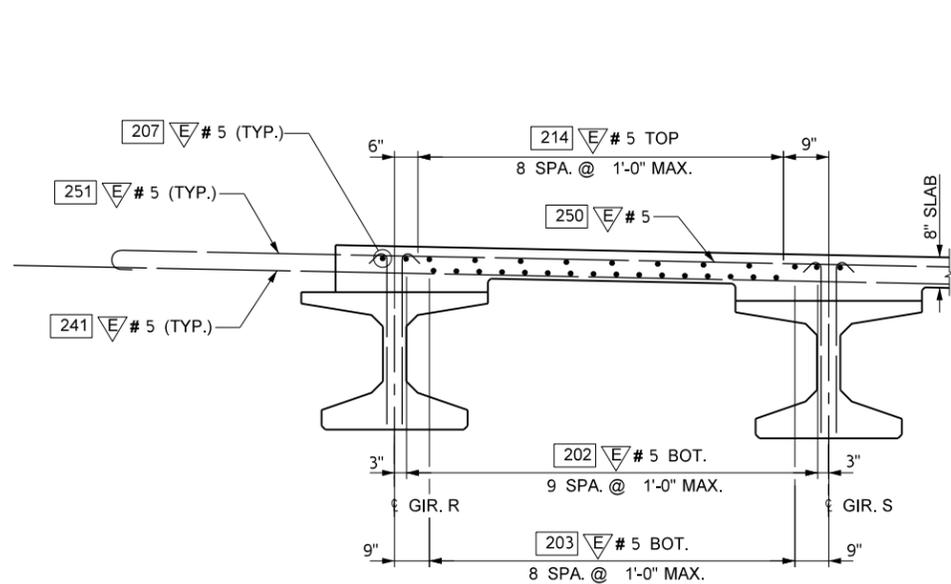
SLAB SECTION - STAGE 2

SHOWN NEAR PIER 2

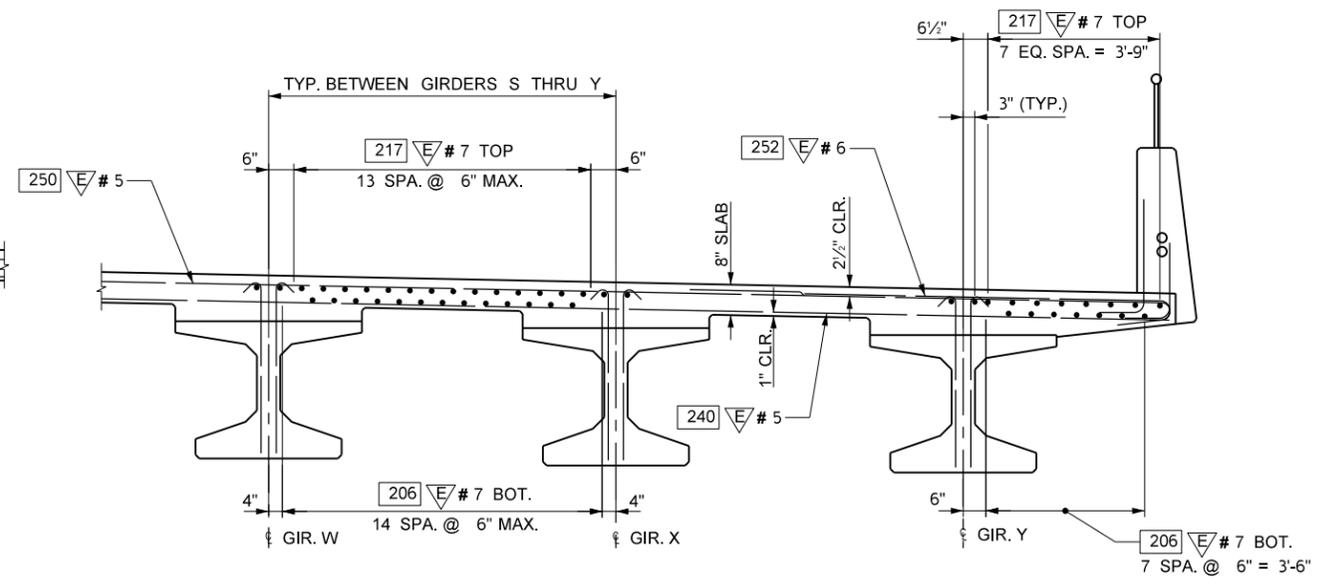
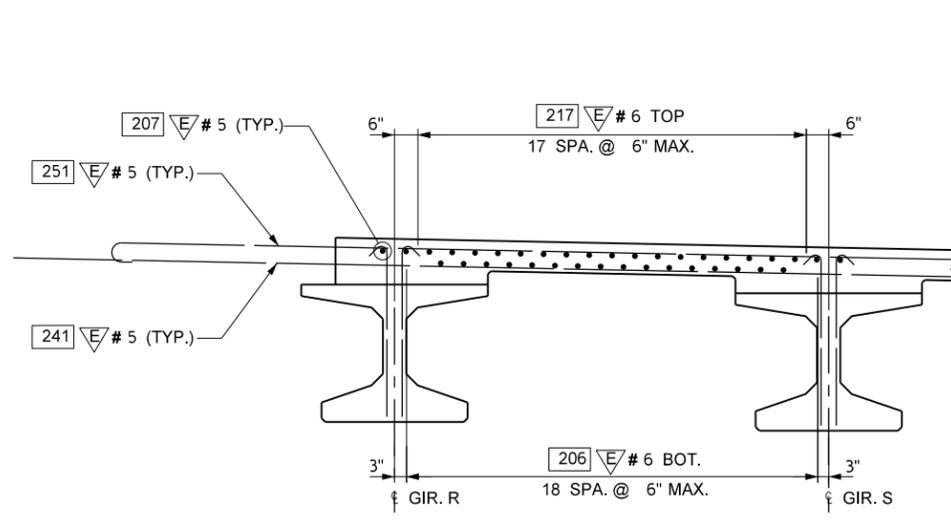
FILE NAME		U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADD\Bridg\100% Plans\BL 1598033_BG_SLAB_1.dgn		REGION NO.		STATE		FED.AID PROJ.NO.		DATE		PLOT 9	
TIME		3:25:01 PM		10		WASH						PLAN REF NO	
DATE		10/31/2012										BR52	
PLOTTED BY		valenalv		JOB NUMBER								SHEET	
DESIGNED BY		J. MERTH		CONTRACT NO.		LOCATION NO.						OF	
ENTERED BY		V. SCHICCHI										SHEETS	
CHECKED BY		R. MURRAY											
PROJ. ENGR.		R.A. LEWIS											
REGIONAL ADM.		L. ENG		REVISION		DATE		BY					



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
SLAB SECTIONS - STAGE 2

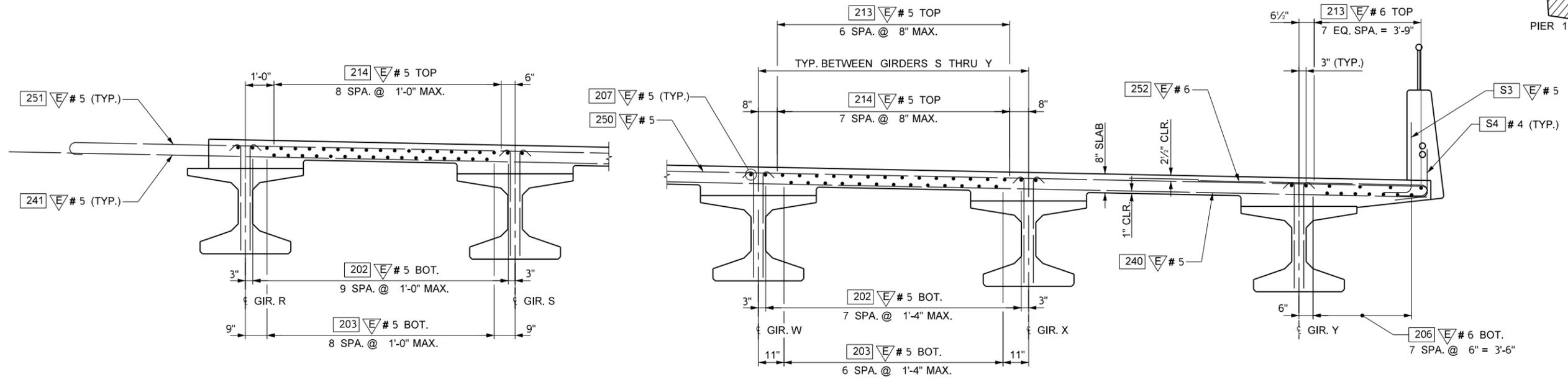
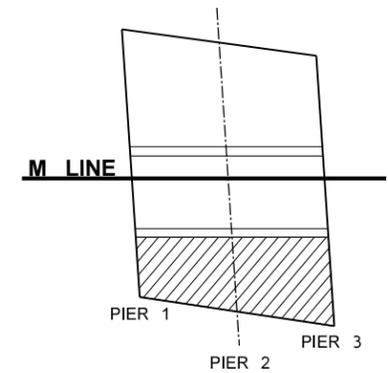


SLAB SECTION - STAGE 2
SHOWN NEAR PIER 1

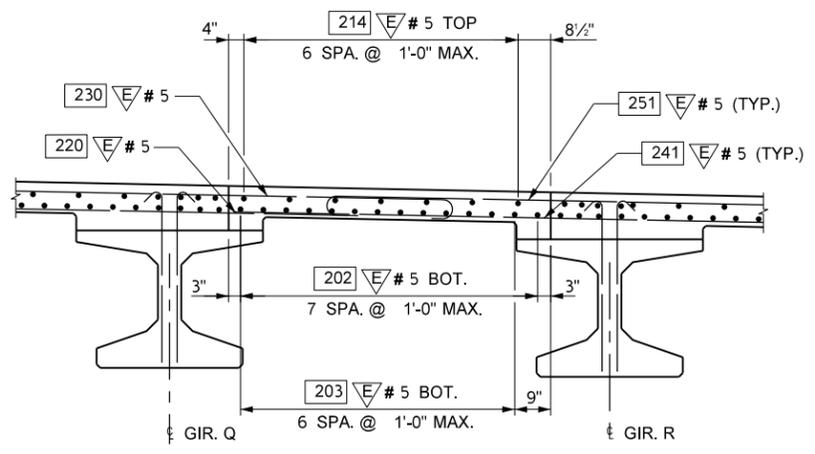


SLAB SECTION - STAGE 2
SHOWN NEAR PIER 2

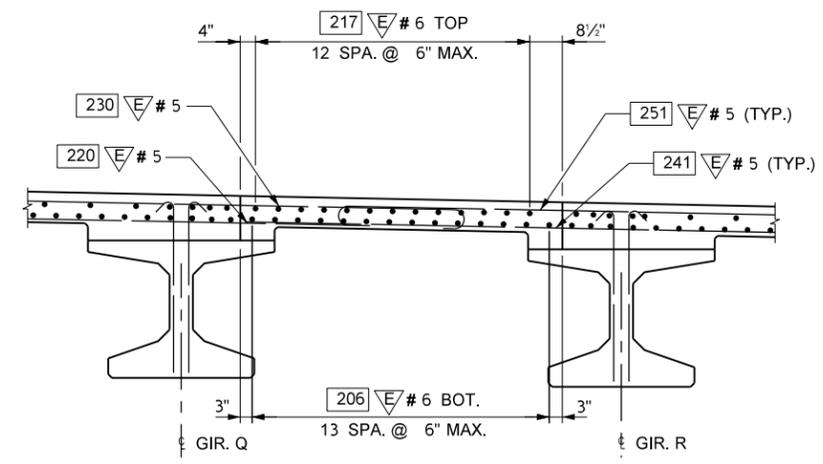
FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3199Svc\CADD\Bridge\100% Plans\BL 1598033_BG_SLAB_1.dgn				FED.AID PROJ.NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS SLAB SECTIONS - STAGE 2	Plot 10
TIME	3:26:33 PM								PLAN REF NO
DATE	10/31/2012				REGION NO.	STATE	SHEET	OF	SHEETS
PLOTTED BY	valenalv				10	WASH			
DESIGNED BY	J. MERTH				JOB NUMBER		REVISION	DATE	BY
ENTERED BY	V. SCHICCHI								
CHECKED BY	R. MURRAY				CONTRACT NO.	LOCATION NO.			
PROJ. ENGR.	R.A. LEWIS								
REGIONAL ADM.	L. ENG								



SLAB SECTION - STAGE 2
SHOWN NEAR PIER 3



SLAB CLOSURE
SHOWN NEAR PIERS 1 & 3



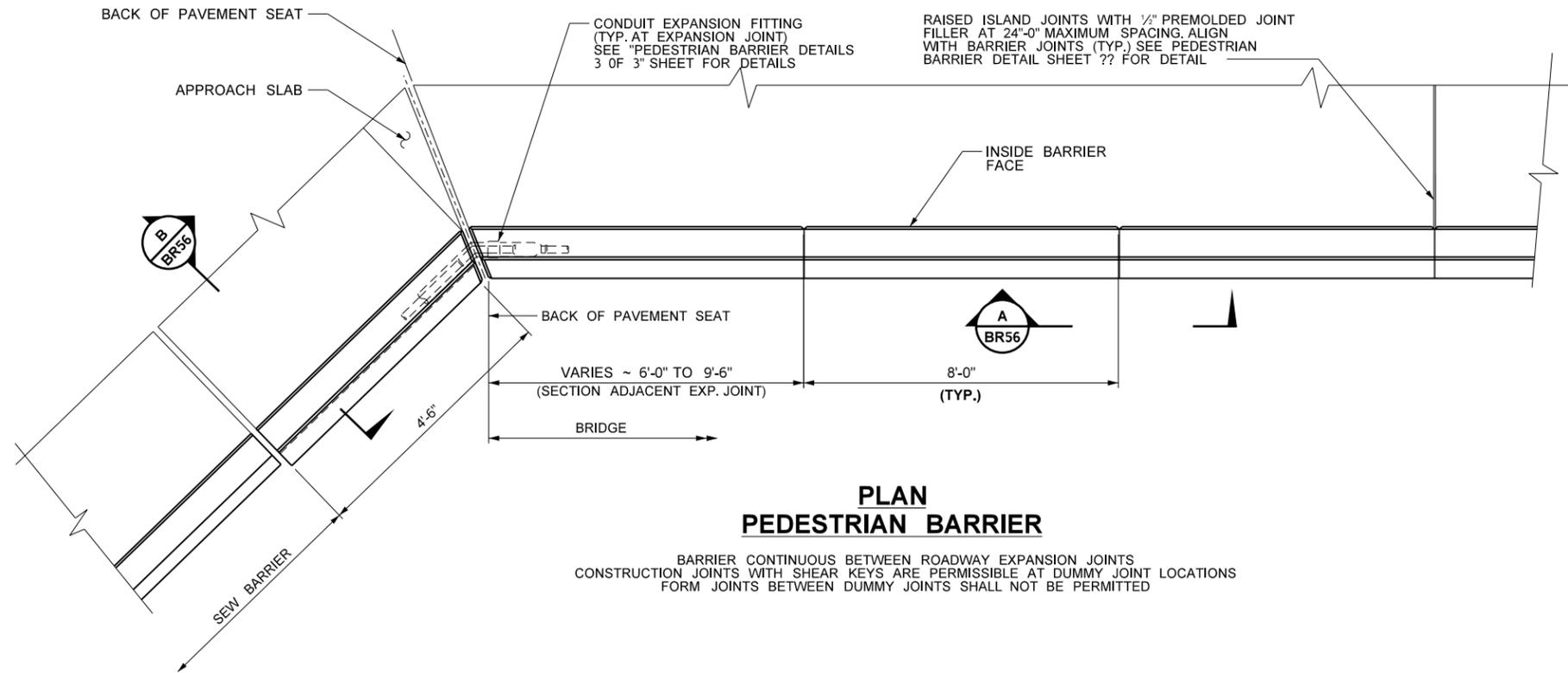
SLAB CLOSURE
SHOWN NEAR PIER 2

FILE NAME		U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3\99Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_SLAB_1.dgn		FED.AID PROJ.NO.		Plot 11	
TIME		4:21:40 PM		REGION NO.		PLAN REF NO	
DATE		10/31/2012		10 WASH		BR54	
PLOTTED BY		valenalv		JOB NUMBER		SHEET	
DESIGNED BY		J. MERTH		CONTRACT NO.		OF	
ENTERED BY		V. SCHICCHI		LOCATION NO.		SHEETS	
CHECKED BY		R. MURRAY					
PROJ. ENGR.		R.A. LEWIS					
REGIONAL ADM.		L. ENG					
REVISION		DATE		BY			



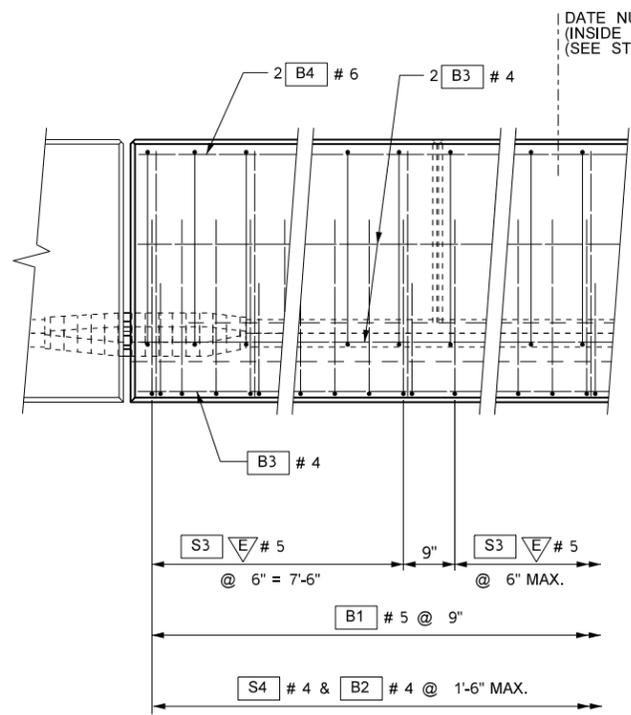
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

SLAB SECTION - STAGE 2



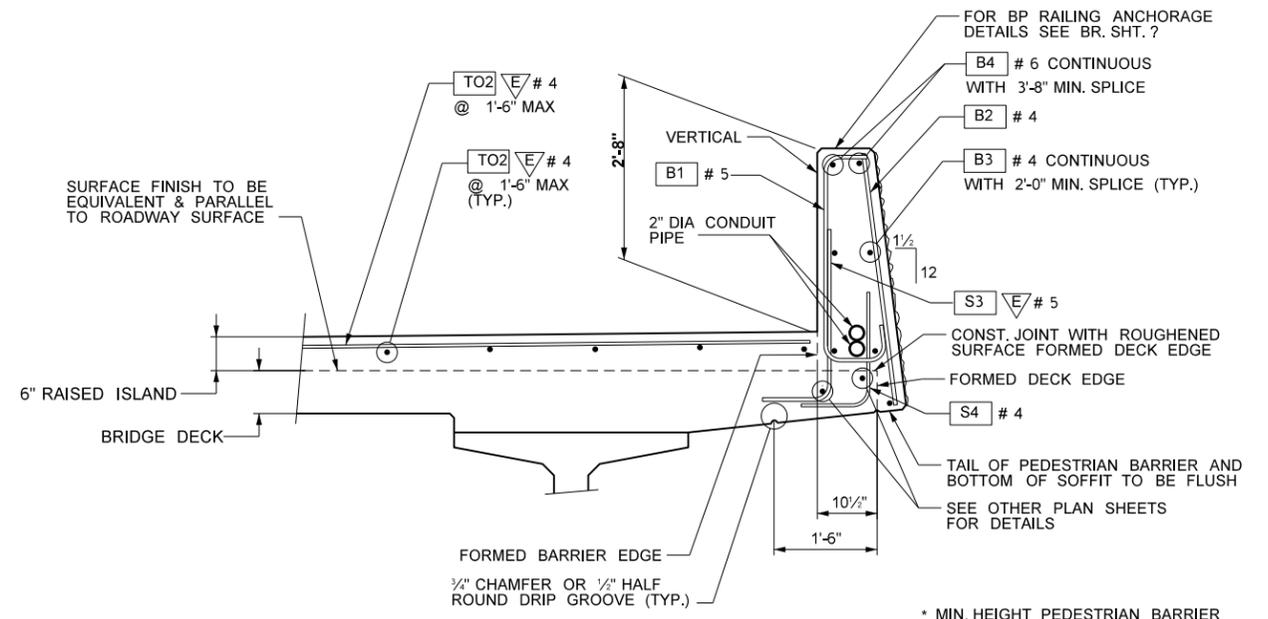
**PLAN
PEDESTRIAN BARRIER**

BARRIER CONTINUOUS BETWEEN ROADWAY EXPANSION JOINTS
CONSTRUCTION JOINTS WITH SHEAR KEYS ARE PERMISSIBLE AT DUMMY JOINT LOCATIONS
FORM JOINTS BETWEEN DUMMY JOINTS SHALL NOT BE PERMITTED



**OUTSIDE ELEVATION
END OF PEDESTRIAN BARRIER**

SHOWN WITH APPROACH SLAB



**TYPICAL SECTION
PEDESTRIAN BARRIER**

SHOWN ON BRIDGE

* MIN. HEIGHT PEDESTRIAN BARRIER HEIGHT MAY VARY IF REQUIRED TO PROVIDE A SMOOTH PROFILE.
**INCLUDE IN SUPERSTRUCTURE BARLIST.

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svc\CADD\Bridge\100% Plans\BL 1598033_BG_BAR_1.dgn			REGION NO.	STATE	FED.AID PROJ.NO.
TIME	3:52:08 PM			10	WASH	
DATE	10/31/2012			JOB NUMBER		
PLOTTED BY	valenalv			CONTRACT NO.		LOCATION NO.
DESIGNED BY	J. MERTH					
ENTERED BY	A. VALENCIA					
CHECKED BY						
PROJ. ENGR.						
REGIONAL ADM.	L. ENG	REVISION	DATE	BY		

DATE _____ P.E. STAMP BOX

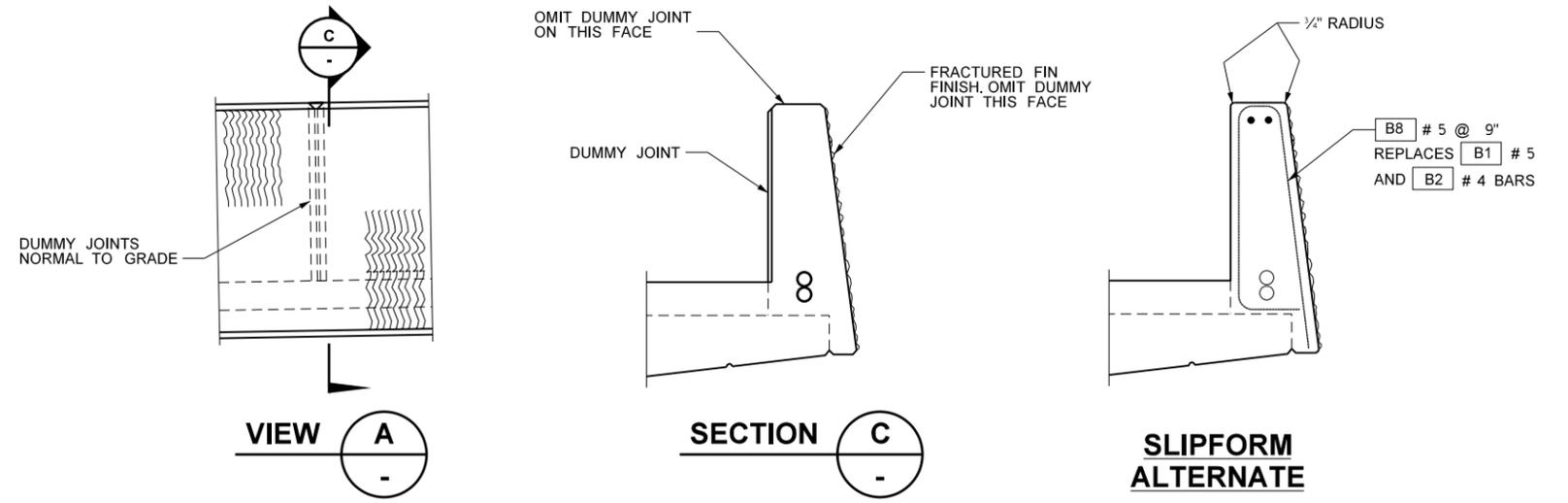
DATE _____ P.E. STAMP BOX



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

TRAFFIC BARRIER SHEET 1 OF 3

Plot 1
PLAN REF NO
BR55
SHEET
OF
SHEETS



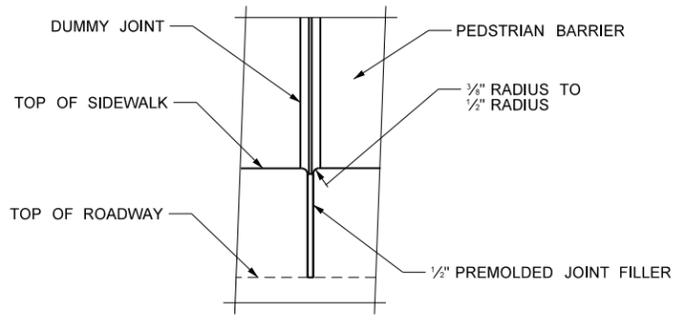
SEE TYPICAL SECTION - PEDESTRIAN BARRIER FOR ADDITIONAL DETAILS

JUNCTION BOX LOCATION		
STATION	OFFSET	"TS" OR "LT"

TS = TRAFFIC SYSTEM
LT = LIGHTING SYSTEM

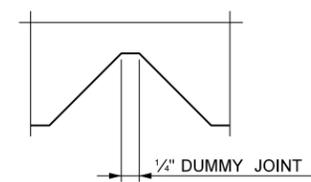
JUNCTION BOX LOCATIONS SHOWN ARE APPROXIMATE. CENTER JUNCTION BOX INSTALLATION BETWEEN BARRIER DUMMY JOINTS.

INSTALL ALL CONDUIT RUNS TO DRAIN TO A BRIDGE END OR PROVIDE DRAIN AT ALL LOW POINTS IN CONDUIT RUN ON BRIDGE.

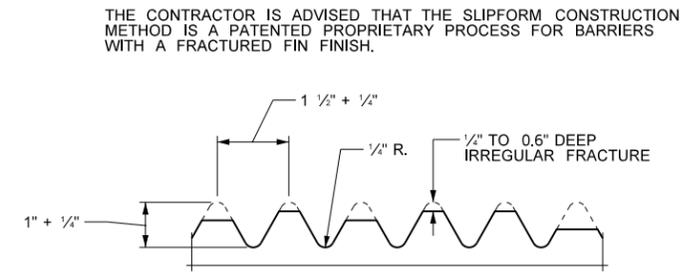


RAISED ISLAND DETAIL

RAISED ISLAND REINFORCING STEEL NOT SHOWN FOR CLARITY



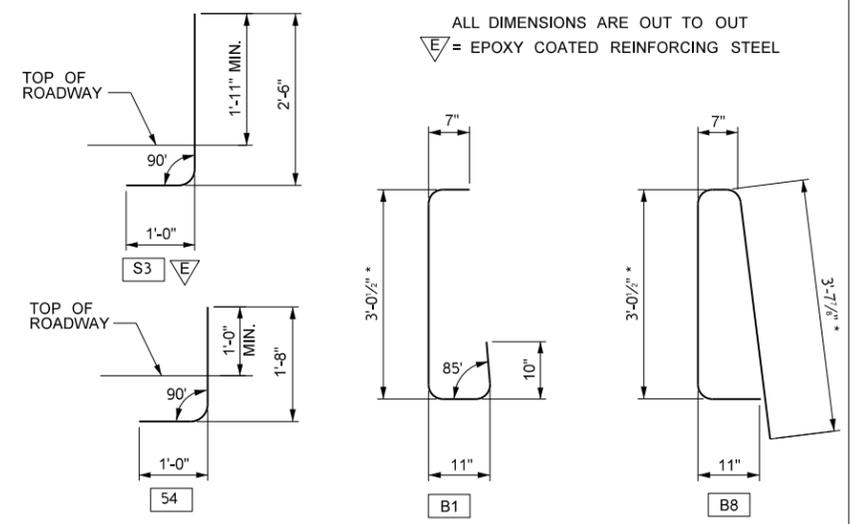
DUMMY JOINT DETAIL



FRACTURED FIN FINISH

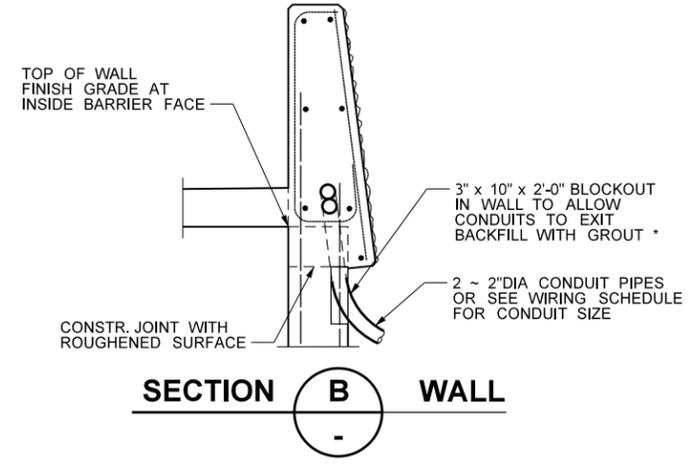
THE CONTRACTOR IS ADVISED THAT THE SLIPFORM CONSTRUCTION METHOD IS A PATENTED PROPRIETARY PROCESS FOR BARRIERS WITH A FRACTURED FIN FINISH.

BENDING DIAGRAM



ALL DIMENSIONS ARE OUT TO OUT
E = EPOXY COATED REINFORCING STEEL

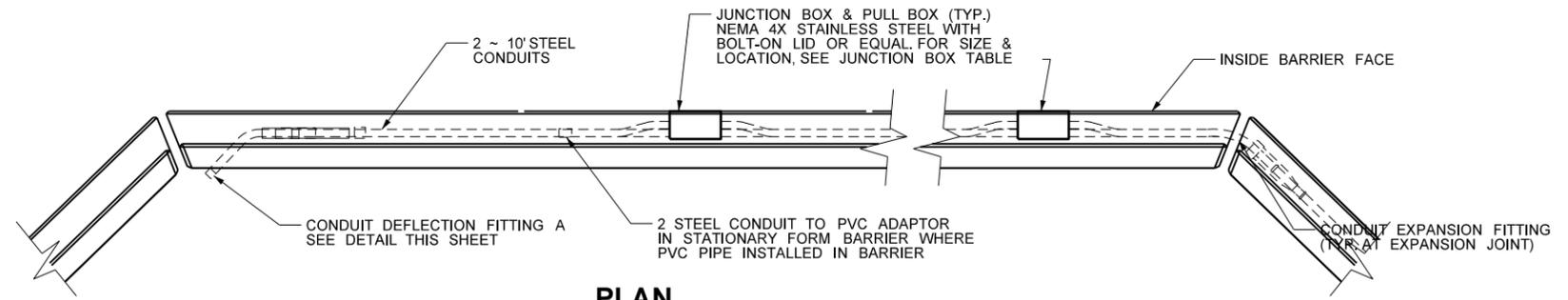
FOR W1 & W2 BARS SEE WINGWALL OR RETAINING WALL PLANS.



SECTION B WALL

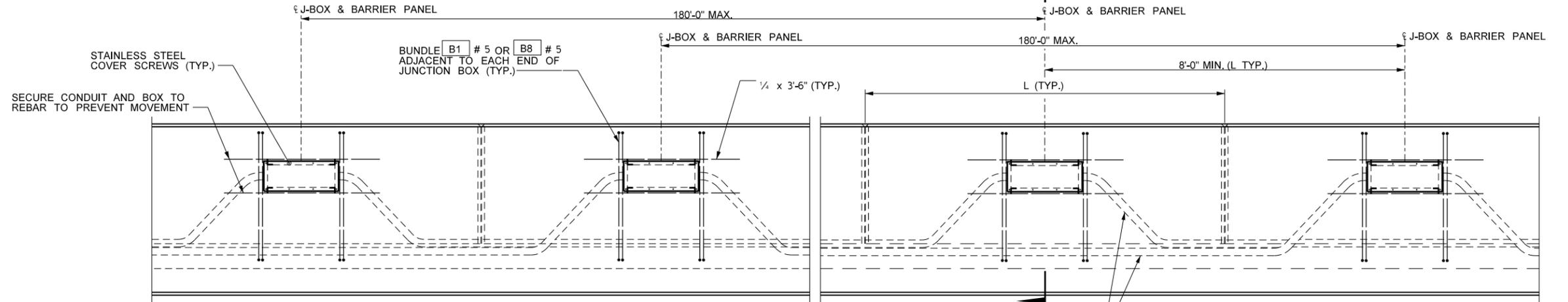
DETAIL FOR CURTAIN WALL. FOR REINFORCING NOT SHOWN SEE STD. PLAN D-15.30-01 OR WINGWALL PLANS.

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3\99Svcs\CADD\Bridg100% Plans\BL 1598033_BG_BAR_1.dgn				REGION NO.	STATE	FED.AID PROJ.NO.			<p>I-5 116TH ST NE INTERCHANGE IMPROVEMENTS</p>	Plot 2
TIME	4:17:43 PM				10	WASH	BR56				
DATE	10/31/2012				JOB NUMBER	LOCATION NO.				<p>TRAFFIC BARRIER SHEET 2 OF 3</p>	SHEET
PLOTTED BY	valenalv				CONTRACT NO.						OF
DESIGNED BY	J. MERTH				DATE	BY	REVISION	DATE	BY	REVISION	SHEETS
ENTERED BY	A. VALENCIA										
CHECKED BY											
PROJ. ENGR.											
REGIONAL ADM.	L. ENG										



**PLAN
PEDESTRIAN BARRIER**

TYPICAL AT END OF MODIFIED PEDESTRIAN BARRIER END SECTION WHERE THREE BEAM END SECTION "DESIGN F" STD. PLAN C-7a OR GUARDRAIL END SECTION "DESIGN D OR F" STD. PLAN C-5 IS USED.



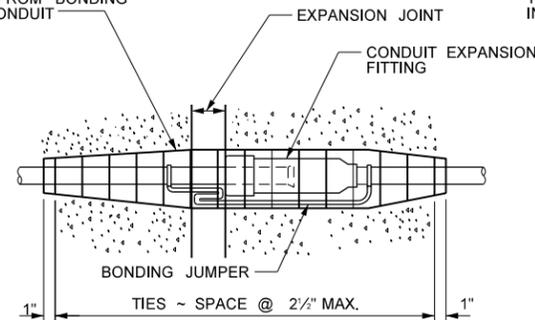
**ELEVATION
CONDUITS & J-BOX IN PEDESTRIAN BARRIER**

LABEL JUNCTION BOX COVER IN ACCORDANCE WITH STANDARD PLAN J-16a AND SPECIAL PROVISIONS. ADJACENT JUNCTION BOXES ARE SHOWN CENTERED BETWEEN ADJACENT DUMMY JOINTS. IF THE DISTANCE BETWEEN ADJACENT DUMMY JOINTS IS 16'-0" OR GREATER, PLACE ADJACENT JUNCTION BOXES SYMMETRICALLY ON EITHER SIDE OF THE CENTER OF ONE DUMMY PANEL WHILE MAINTAINING 8'-0" MINIMUM BETWEEN CENTER LINES OF THE JUNCTION BOXES.



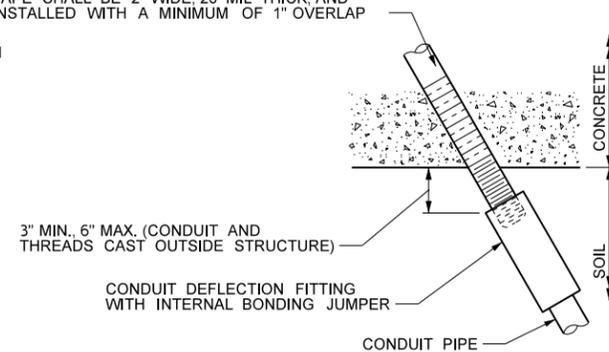
SECTION B

3'-0" LONG EXPANDED POLYSTYRENE SLEEVE AROUND CONDUIT. DUCT TAPE SEAMS AND ENDS TO SEAL AND PREVENT CONCRETE FROM BONDING WITH FITTING AND CONDUIT



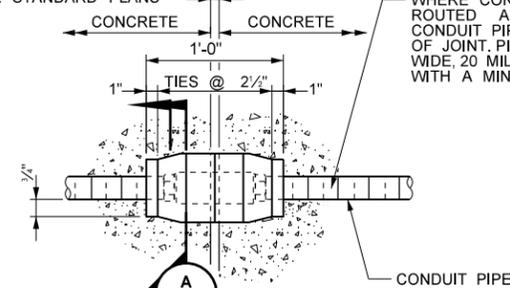
CONDUIT EXPANSION FITTING

WHERE CONDUIT IN A STRUCTURE IS ROUTED ACROSS A JOINT, WRAP STEEL CONDUIT PIPE FOR 1'-0" ON EACH SIDE OF JOINT. PIPE WRAP TAPE SHALL BE 2" WIDE, 20 MIL THICK, AND INSTALLED WITH A MINIMUM OF 1" OVERLAP



CONDUIT DEFLECTION FITTING A

1/2" PREMOLDED JOINT FILLER SEE STANDARD PLANS

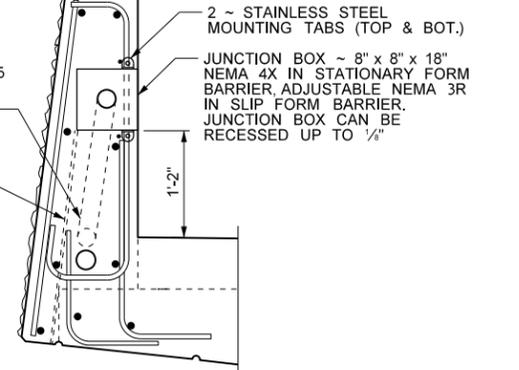


CONDUIT DEFLECTION FITTING B

CONDUIT FITTING - TYPE DX FOR DEFLECTION OF 30 DEG AND 1/4" MOVEMENT. CONDUIT PIPES PLACED THROUGH RETAINING WALL PEDESTRIAN BARRIER SHALL BE FITTED WITH DEFLECTION FITTINGS AT A MAXIMUM SPACING OF 120'. THE DEFLECTION FITTINGS SHALL BE PLACED AT THE PEDESTRIAN BARRIER OPEN JOINT THAT COINCIDES WITH THE RETAINING WALL STEM EXPANSION JOINT NEAREST TO THE TRANSVERSE CONSTRUCTION JOINT IN THE WALL FOOTING.

BUNDLE 2 # B1 # 5 OR 2 # B8 # 5 ADJACENT TO EACH END OF JUNCTION BOX (TYP.)

1/2" DIA POLYETHYLENE OR COPPER PIPE DRAIN



SECTION A

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Scvs\CADD\Bridge\100% Plans\BL 1598033_BG_BAR_1.dgn				FED.AID PROJ.NO.
TIME	3:36:16 PM				
DATE	10/26/2012				
PLOTTED BY	valenalv				
DESIGNED BY	J. MERTH				
ENTERED BY	A. VALENCIA				
CHECKED BY					
PROJ. ENGR.					
REGIONAL ADM.	L. ENG	REVISION	DATE	BY	

DATE _____ P.E. STAMP BOX _____



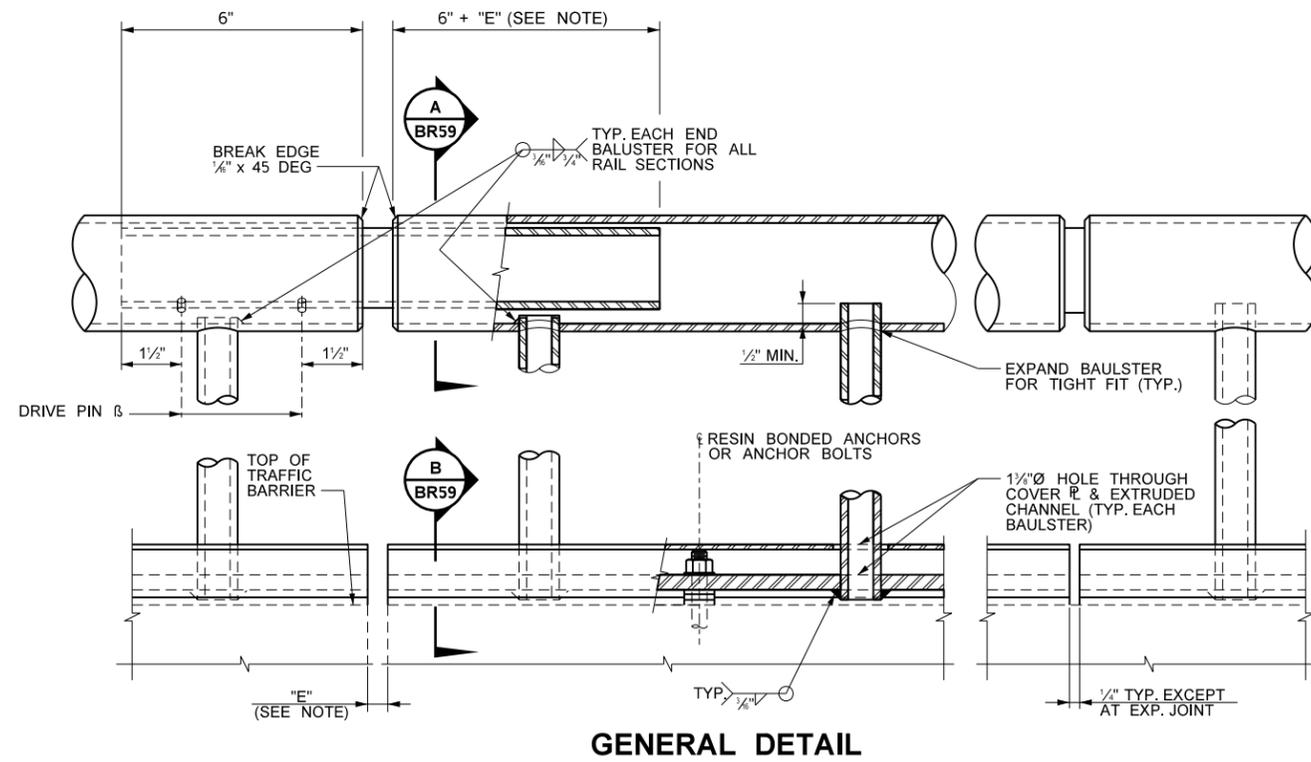
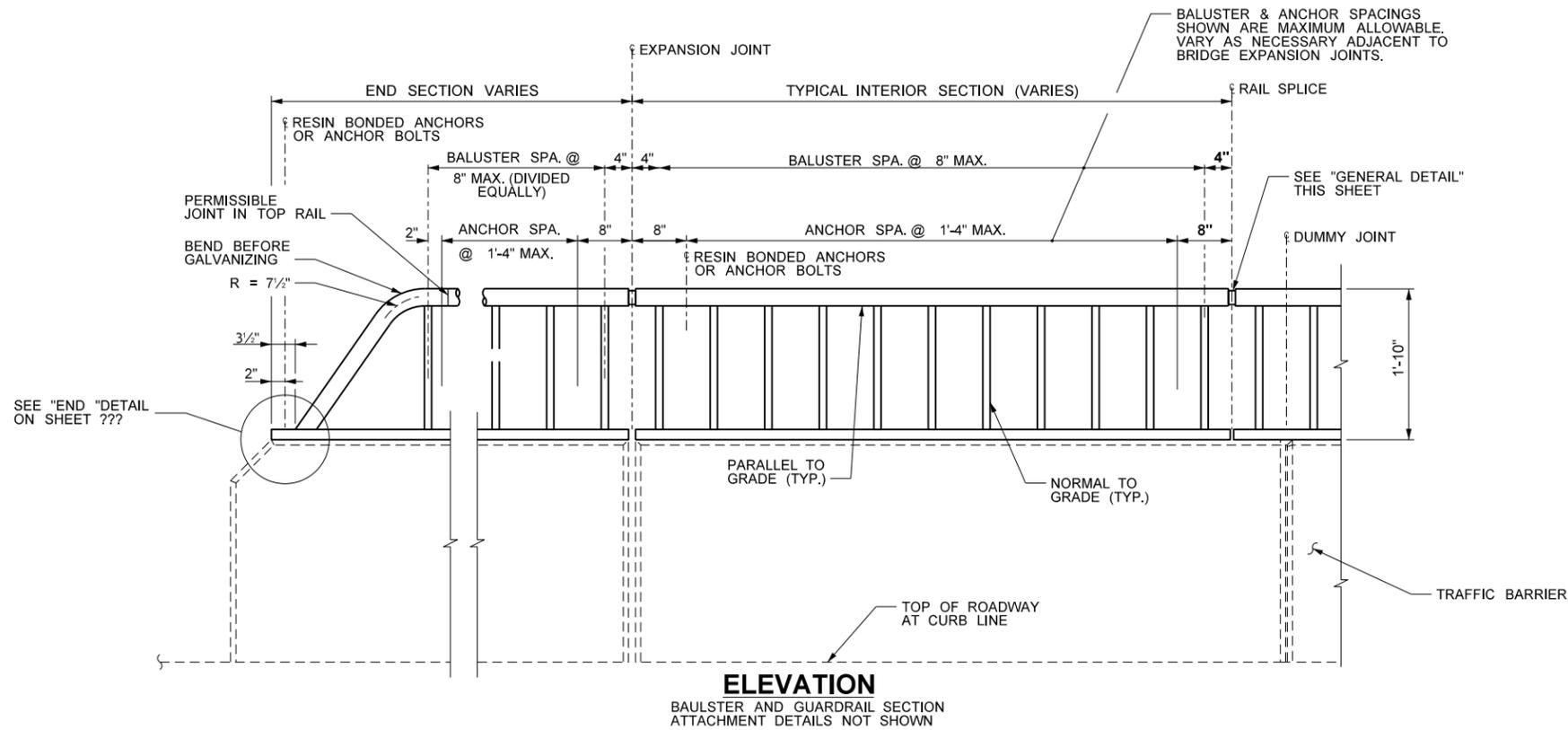
I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

TRAFFIC BARRIER SHEET 3 OF 3

Plot 3
PLAN REF NO
BR57
SHEET
OF
SHEETS

GENERAL NOTES

- PIPE RAILING, PIPE RAILING SPLICES, COVER PLATES AND BOTTOM EXTRUDED CHANNELS SHALL BE BENT TO THE HORIZONTAL CURVE WHERE THE RADIUS OF CURVATURE IS LESS THAN 200'. THESE ITEMS MAY BE HEATED TO NOT MORE THAN 400°F FOR A PERIOD NOT TO EXCEED 30 MINUTES TO FACILITATE FORMING OR BENDING TO HORIZONTAL CURVATURE.
- SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND INCLUDING AN ERECTION DIAGRAM. MATERIAL SPECIFICATIONS SHALL BE PROVIDED IN THE SHOP DRAWINGS FOR ALL COMPONENTS.
- CUTTING SHALL BE DONE BY SAWING OR MILLING AND ALL CUTS SHALL BE TRUE AND SMOOTH. FLAME CUTTING WILL NOT BE PERMITTED.
- WELDING OF ALUMINUM SHALL CONFORM TO STD. SPEC. SECTION 9-28.14(3).
- ALL ALUMINUM PARTS SHALL BE GIVEN A [CLEAR OR BRONZE] ANODIC COATING OF AT LEAST 0.0006" THICK AND SEALED TO MEET THE REQUIREMENTS OF ASTM B 580 WITH A UNIFORM FINISH.
- PIPE RAILING, PIPE BALUSTERS AND PIPE RAILING SPLICES SHALL BE ADEQUATELY WRAPPED TO INSURE SURFACE PROTECTION DURING HANDLING AND TRANSPORTATION TO THE JOB SITE.



- * PROVIDE EXPANSION RAIL SPLICE AT TRAFFIC BARRIER EXPANSION JOINTS. RAIL SPLICE JOINTS ARE NOT REQUIRED AT TRAFFIC BARRIER DUMMY JOINTS.
 - β LOCATE ON OPPOSITE SIDE OF TRAFFIC. DRIVE PINS SHALL BE DRIVEN FLUSH WITH THE OUTSIDE FACE OF THE RAILING.
- NOTE:
"E" DIMENSION SHALL BE EQUAL TO OPENING OF TRAFFIC BARRIER EXPANSION JOINTS.

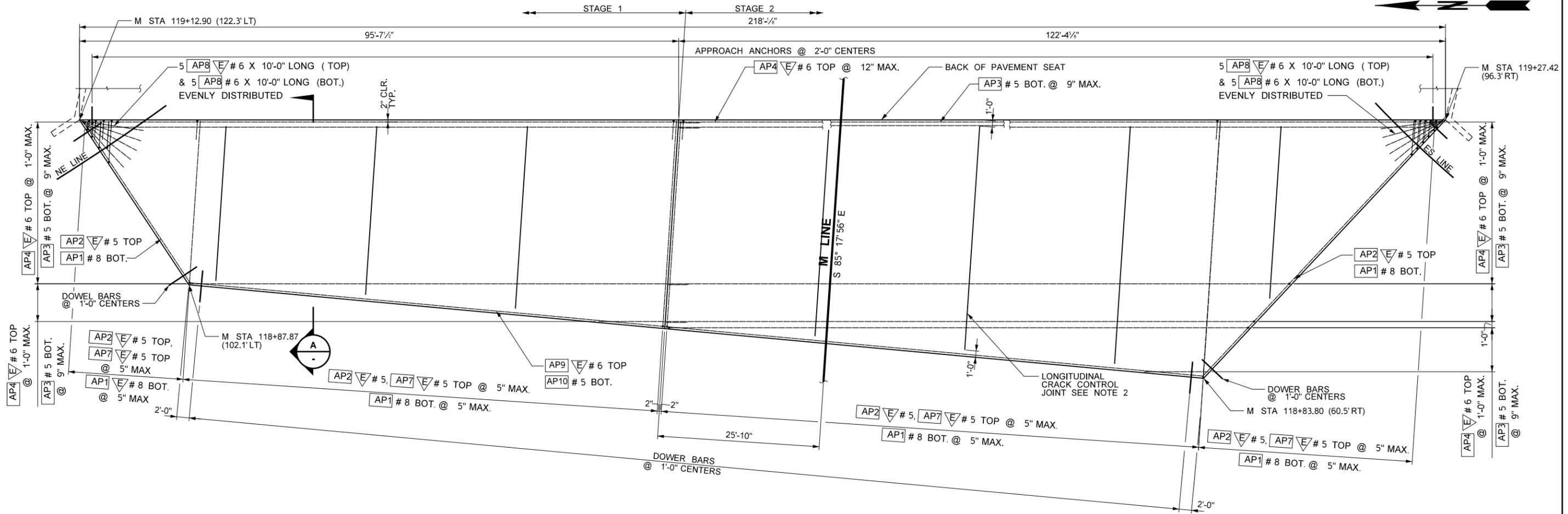
FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3199Svc\CADD\Bridge\100% Plans\BL 1598033_BG_BAR_1.dgn			REGION NO.	STATE	FED.AID PROJ.NO.
TIME	10:54:22 AM			10	WASH	
DATE	11/1/2012			JOB NUMBER		
PLOTTED BY	valenalv			CONTRACT NO.		LOCATION NO.
DESIGNED BY	J. MERTH					
ENTERED BY	A. VALENCIA					
CHECKED BY						
PROJ. ENGR.						
REGIONAL ADM.	L. ENG	REVISION	DATE	BY		

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX

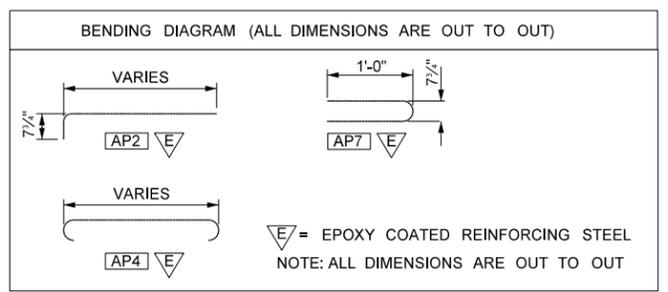
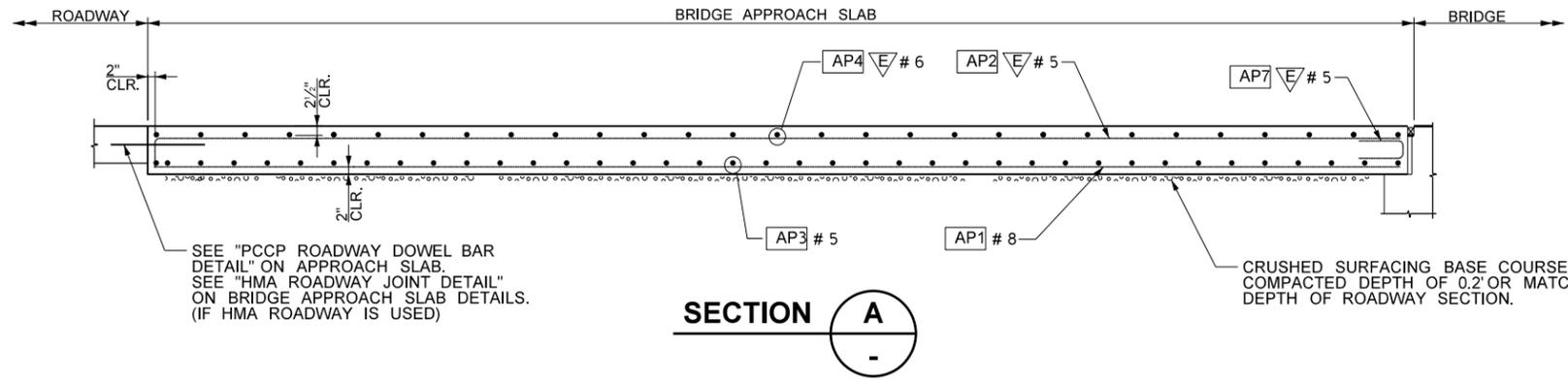


Plot 4
PLAN REF NO BR58
SHEET OF SHEETS
I-5 116TH ST NE INTERCHANGE IMPROVEMENTS BRIDGE RAILING TYPE BP DETAILS 1 OF 2

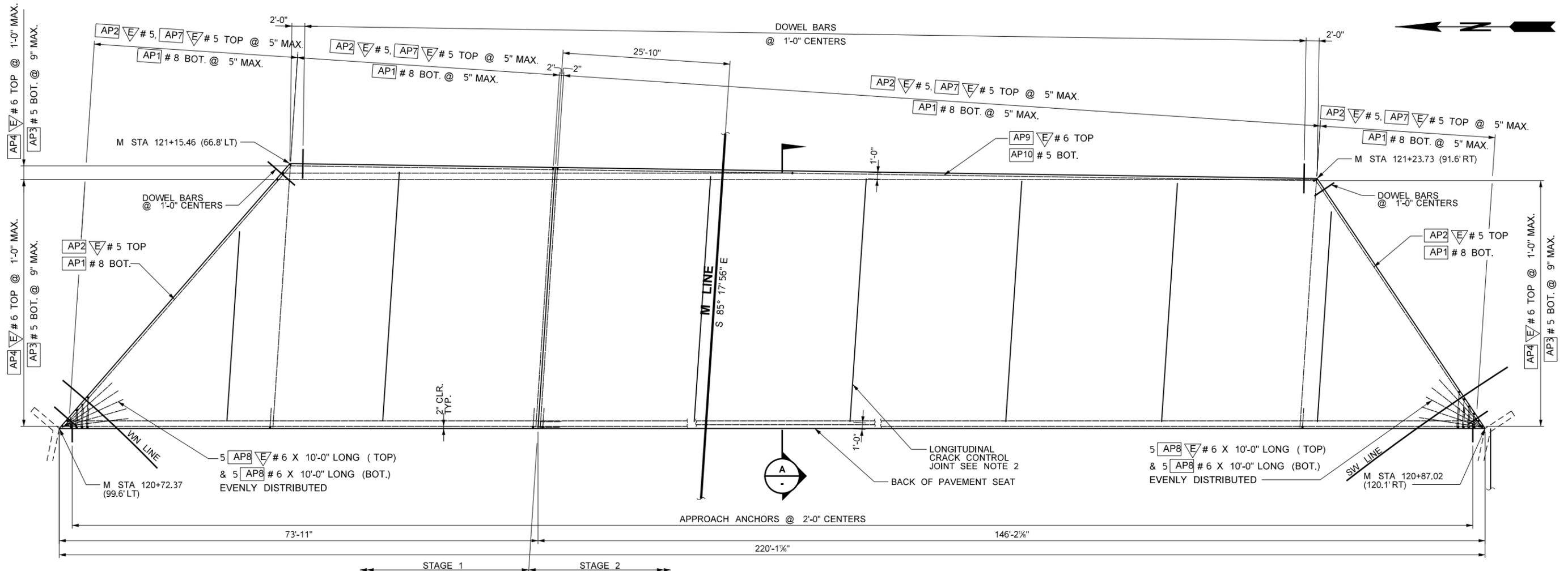


BRIDGE APPROACH SLAB - PIER 1

1. ALL EDGES OF BRIDGE APPROACH SLAB SHALL HAVE 1/2" RADIUS.
2. LONGITUDINAL JOINTS SHALL BE PLACED ON LANE LINES AND SHALL BE CONSTRUCTED AND SEALED IN ACCORDANCE WITH STD. SPEC. SECTION 5-05.3(8). JOINTS MAY BE EITHER A SAWCUT CRACK CONTROL JOINT OR A CONSTRUCTION JOINT. SAWCUT JOINTS SHALL TERMINATE 1'-0" BEFORE REACHING EDGE OF SLAB AND MUST BE SAW CUT AS SOON AS POSSIBLE AFTER PLACEMENT OF CONCRETE.
3. THE MINIMUM LAP SPLICE OF #5 IS 2'-0", #5 IS 2'-6", #6 IS 3'-0", AND #8 IS 3'-3". ALL LAP SPLICES SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION. LAP SPLICES SHALL BE LOCATED WITHIN THE MIDDLE HALF OF THE BRIDGE APPROACH SLAB. OPTIONAL SPLICES ARE ALLOWED FOR

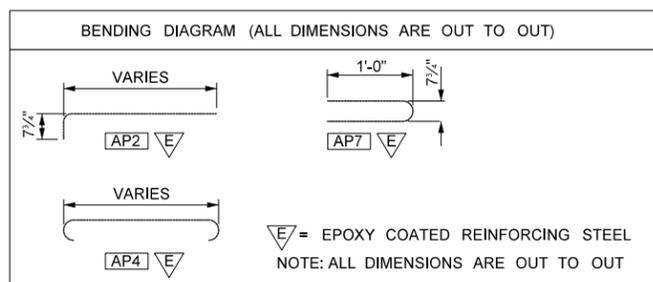
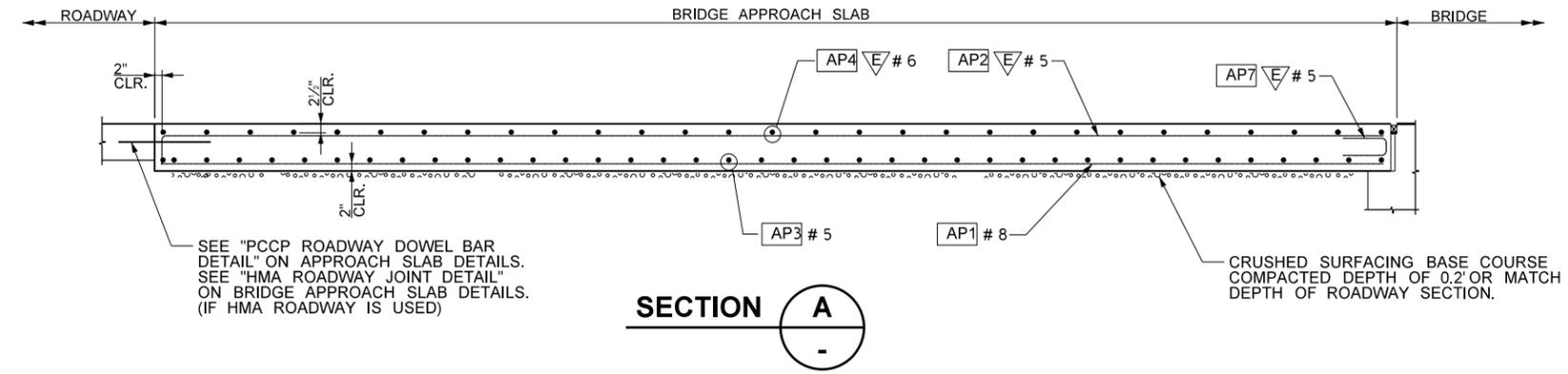


FILE NAME: U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADD\Bridge\100% Plans\BL 1598033_BG_AS_1.dgn		REGION NO. STATE		FED.AID PROJ.NO.		ROBERT H. M. LEBLANC STATE OF WASHINGTON PROFESSIONAL ENGINEER 4089		TULALIP TRIBES Parametrix		I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 1 PLAN REF NO BR60	
TIME: 11:02:25 AM		10	WASH										
DATE: 11/1/2012													
PLOTTED BY: valenalv													
DESIGNED BY: J. MERTH													
ENTERED BY: V. SCHICCHI													
CHECKED BY:													
PROJ. ENGR.:													
REGIONAL ADM. L. ENG	REVISION	DATE	BY	CONTRACT NO.	LOCATION NO.	DATE	DATE						

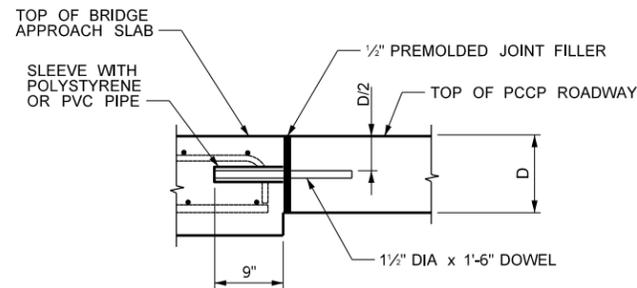


BRIDGE APPROACH SLAB - PIER 3

1. ALL EDGES OF BRIDGE APPROACH SLAB SHALL HAVE 1/2" RADIUS.
2. LONGITUDINAL JOINTS SHALL BE PLACED ON LANE LINES AND SHALL BE CONSTRUCTED AND SEALED IN ACCORDANCE WITH STD. SPEC. SECTION 5-05.3(8). JOINTS MAY BE EITHER A SAWCUT CRACK CONTROL JOINT OR A CONSTRUCTION JOINT. SAWCUT JOINTS SHALL TERMINATE 1'-0" BEFORE REACHING EDGE OF SLAB AND MUST BE SAW CUT AS SOON AS POSSIBLE AFTER PLACEMENT OF CONCRETE.
3. THE MINIMUM LAP SPLICE OF #5 IS 2'-0", #5 IS 2'-6", #6 IS 3'-0", AND #8 IS 3'-3". ALL LAP SPLICES SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF REBAR IS SPLICED AT THE SAME LOCATION. LAP SPLICES SHALL BE LOCATED WITHIN THE MIDDLE HALF OF THE BRIDGE APPROACH SLAB. OPTIONAL SPLICES ARE ALLOWED FOR

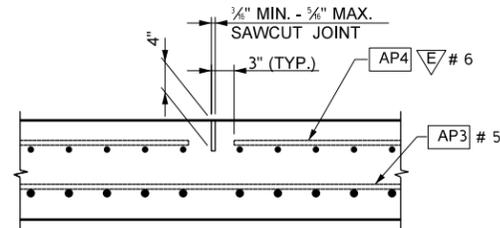


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TIME	11:05:52 AM				10	WASH					PLAN REF NO BR61
DATE	11/1/2012				JOB NUMBER						SHEET
PLOTTED BY	valenalv				CONTRACT NO.		LOCATION NO.				OF
DESIGNED BY	J. MERTH										SHEETS
ENTERED BY	V. SCHICCHI										
CHECKED BY											
PROJ. ENGR.											
REGIONAL ADM.	L. ENG	REVISION	DATE	BY							

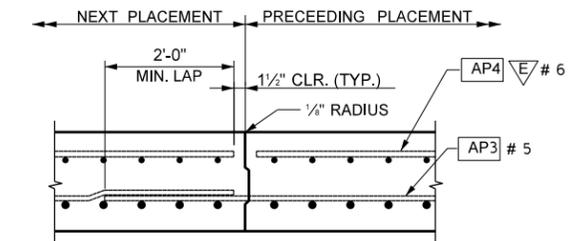


PCCP ROADWAY DOWEL BAR DETAIL

INSERT DOWELS PARALLEL TO CENTER LINE ALONG TRANSVERSE CONSTRUCTION JOINT.

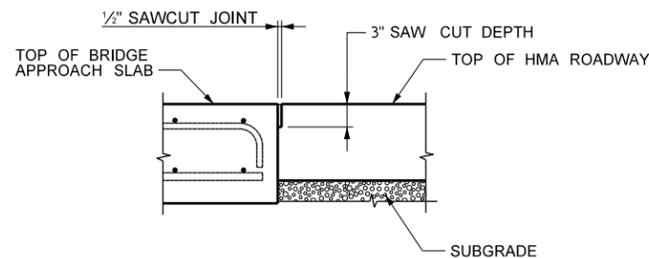


LONGITUDINAL JOINT DETAIL



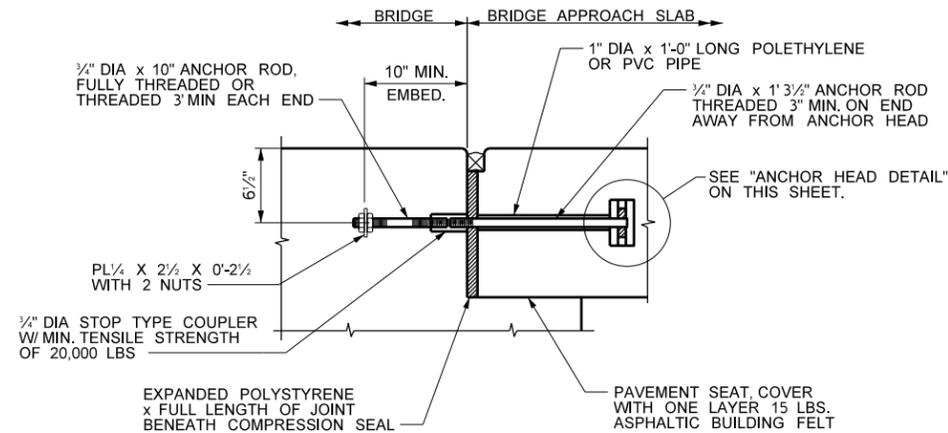
ALTERNATE LONGITUDINAL JOINT DETAIL

EDGE PRECEDING PLACEMENT ONLY WITH 1/4" RADIUS

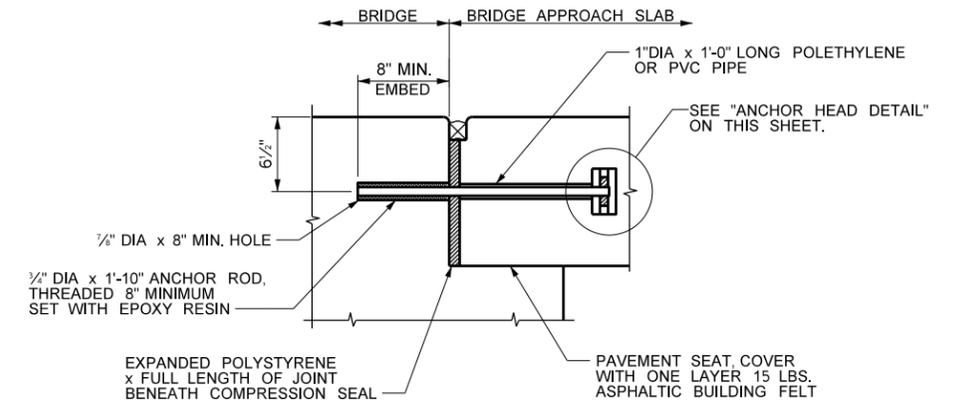


HMA ROADWAY JOINT DETAIL

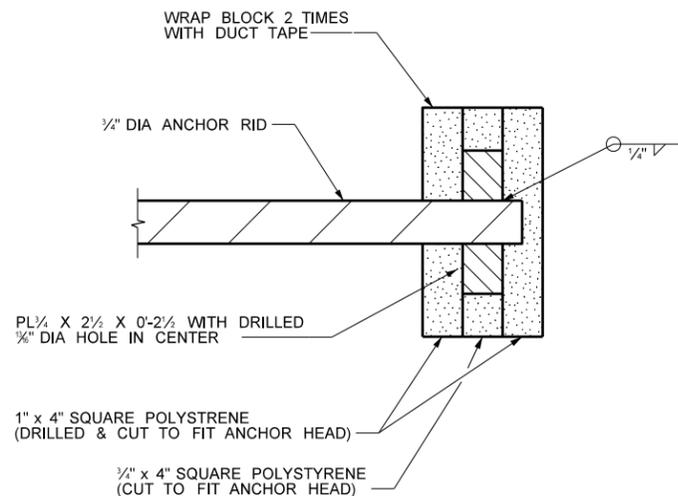
SAWCUT SHALL BE FILLED WITH HOT-POURED COMPONENT IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 9-04.2(1) AND SEALED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 5-05.3(8)B.



APPROACH ANCHOR - METHOD A



APPROACH ANCHOR - METHOD B



ANCHOR HEAD DETAIL

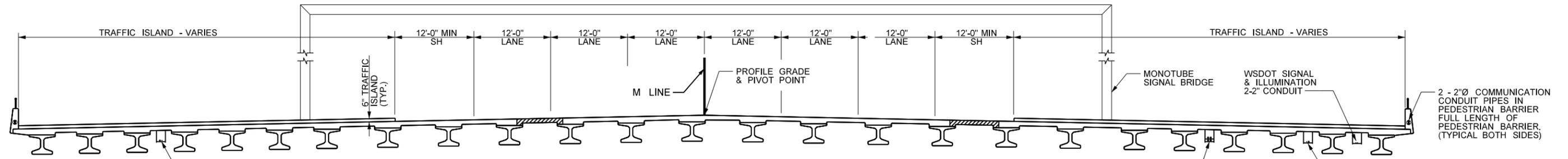
FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svc\CADD\Bridge\100% Plans\BL 1598033_BG_AS_1.dgn				REGION NO.	STATE	FED.AID PROJ.NO.
TIME	11:05:29 AM				10	WASH	
DATE	11/1/2012				JOB NUMBER		
PLOTTED BY	valenalv				CONTRACT NO.		LOCATION NO.
DESIGNED BY	J. MERTH						
ENTERED BY	V. SCHICCHI						
CHECKED BY							
PROJ. ENGR.							
REGIONAL ADM.	L. ENG	REVISION	DATE	BY			

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX



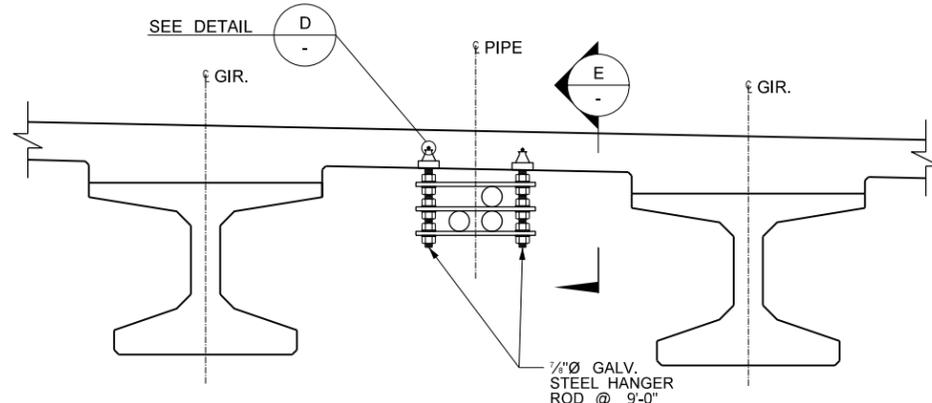
I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 3 PLAN REF NO BR62
APPROACH SLAB DETAILS 1 OF 2	SHEET OF SHEETS



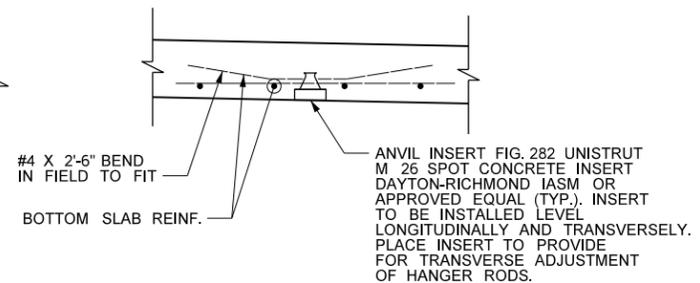
NOTES:

1. FOR UTILITY BLOCKOUT DETAILS, SEE END DIAPHRAGM, INTERMEDIATE DIAPHRAGM, AND CROSSBEAM SHEETS.

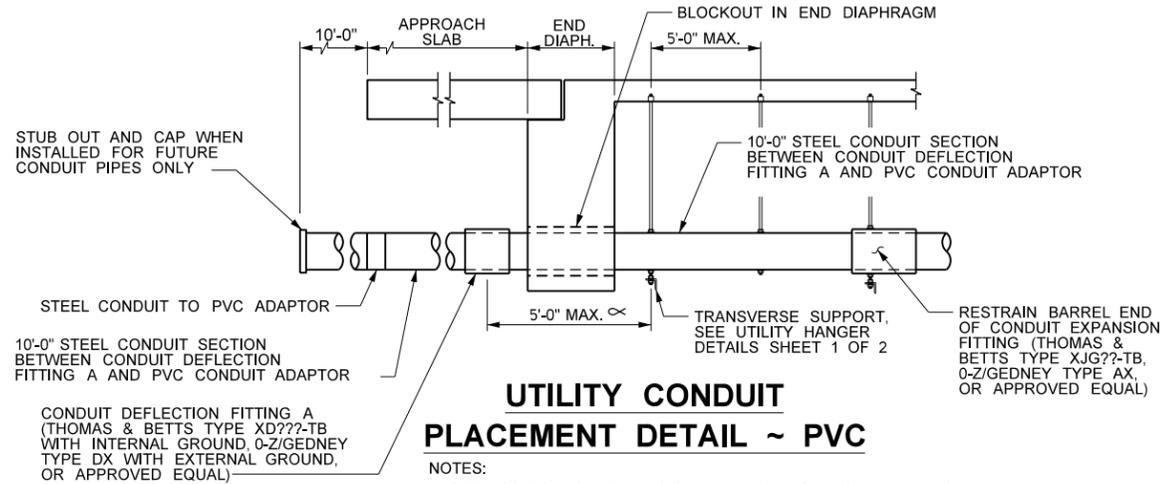
TYPICAL ROADWAY SECTION



HANGER UTILITY SUPPORT

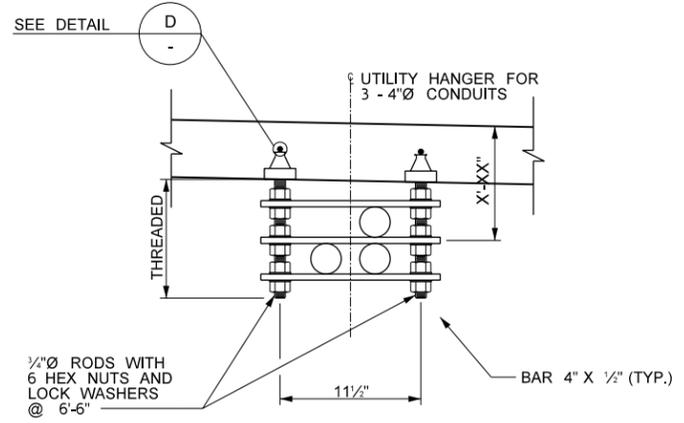


DETAIL D

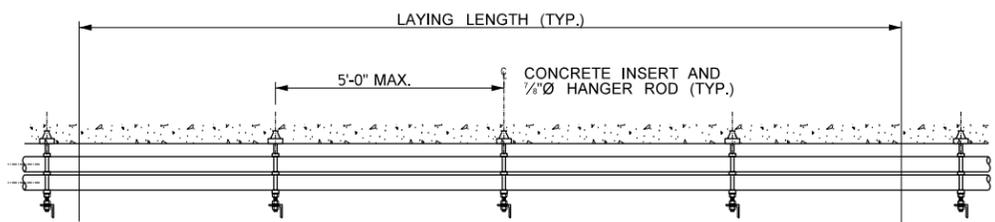


UTILITY CONDUIT PLACEMENT DETAIL ~ PVC

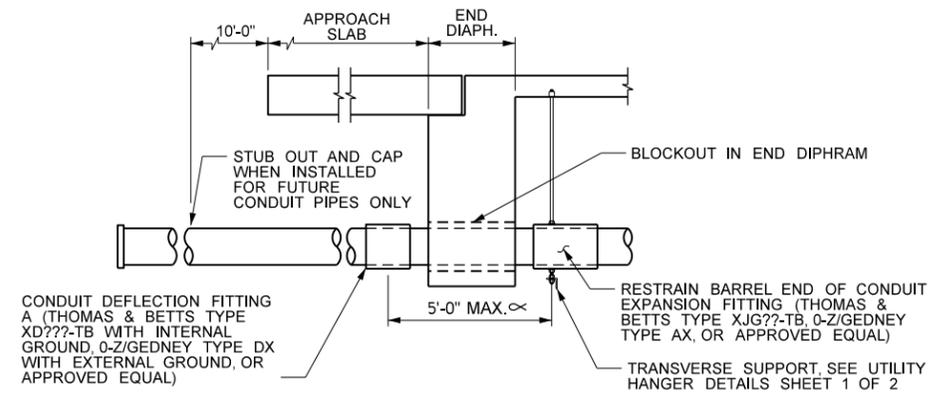
- NOTES:
1. SET POSITION OF EXPANSION FITTING BASED ON MANUFACTURER RECOMMENDATIONS AND TEMPERATURE AT TIME OF INSTALLATION.
 2. EXPANSION FITTINGS SHALL BE INSTALLED EVERY 100'-0" MAX, AND SHALL ACCOMMODATE 5.1 INCHES OF MOVEMENT. THE DESIGN TEMPERATURE RANGE IS 125 DEGREES (-15° TO 100°).
 3. SEE BARRIER SHEETS FOR CONDUIT DEFLECTION FITTING A DETAIL.



MULTIPLE UTILITY DETAIL



DETAIL E



UTILITY CONDUIT PLACEMENT DETAIL ~ RGS

SEE BARRIER SHEETS FOR CONDUIT DEFLECTION FITTING A DETAIL

∞ DIMENSION MAY BE INCREASED IF REQUIRED FOR GEOMETRY

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svc\CADD\Bridge\100% Plans\1598033_BG_UT.dgn				FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 1
TIME 11:08:43 AM	DATE 11/1/2012	REGION NO. 10	STATE WASH	PLAN REF NO. BR64					
PLOTTED BY valenalv	DESIGNED BY J. MERTH	ENTERED BY C.D. CLARK	CHECKED BY R. MURRAY	PROJ. ENGR. R.A. LEWIS	REGIONAL ADM. L. ENG	REVISION	DATE	BY	SHEET
								OF	
								SHEETS	
								UTILITY DETAILS	

SIGNAL / ILLUMINATION POLE LOCATIONS ON STRUCTURE

NO.	STATION	OFFSET
POLE 1	ES 122+11.8	13.5' RT
POLE 3	NE 123+29	13.5' RT
POLE 4	NE 123+28	33.2' LT
POLE 5	WN 123+20	13.5' LT
POLE 7	SW121+88.2	13.5' LT
POLE 8	SW 121+89.2	48.0' RT
POLE E6	M 119+94	60' RT
POLE 37	M 120+08	60' LT

SIGN BRIDGE POST LOCATIONS

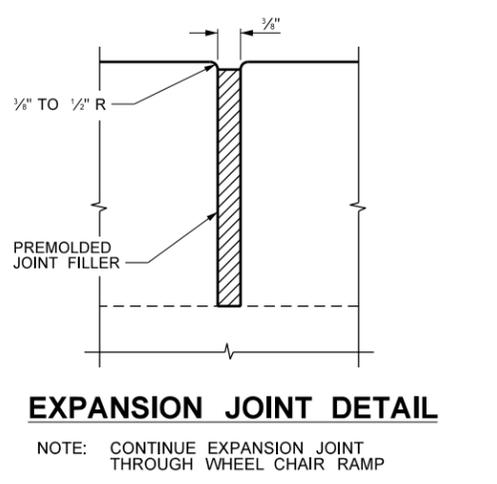
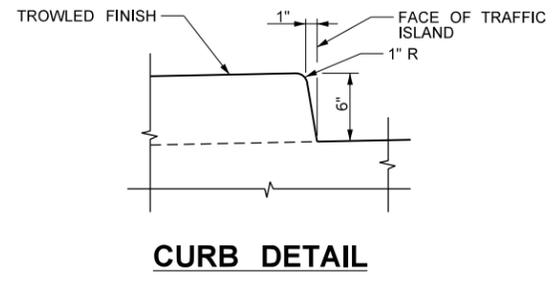
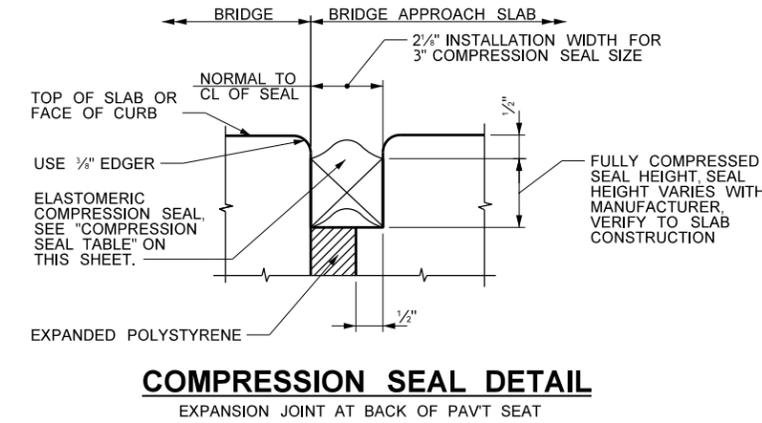
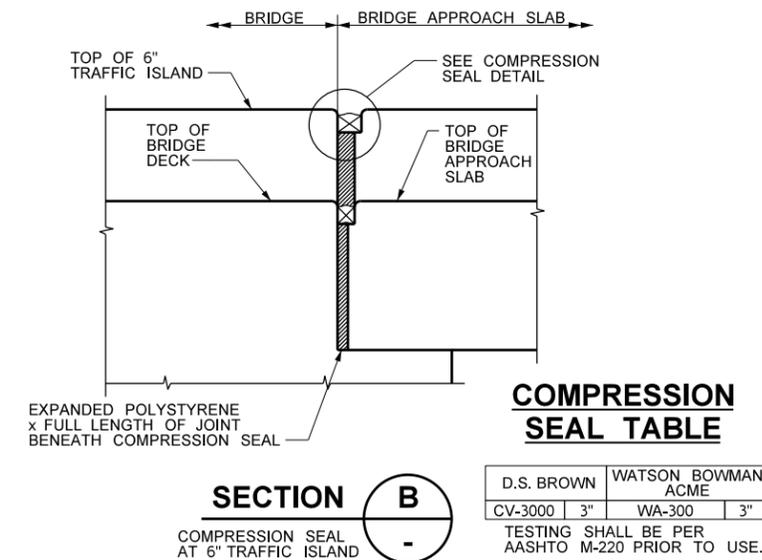
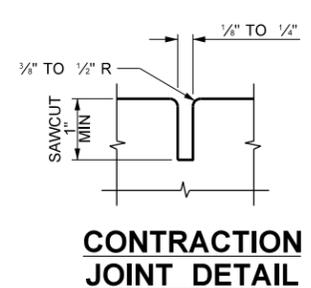
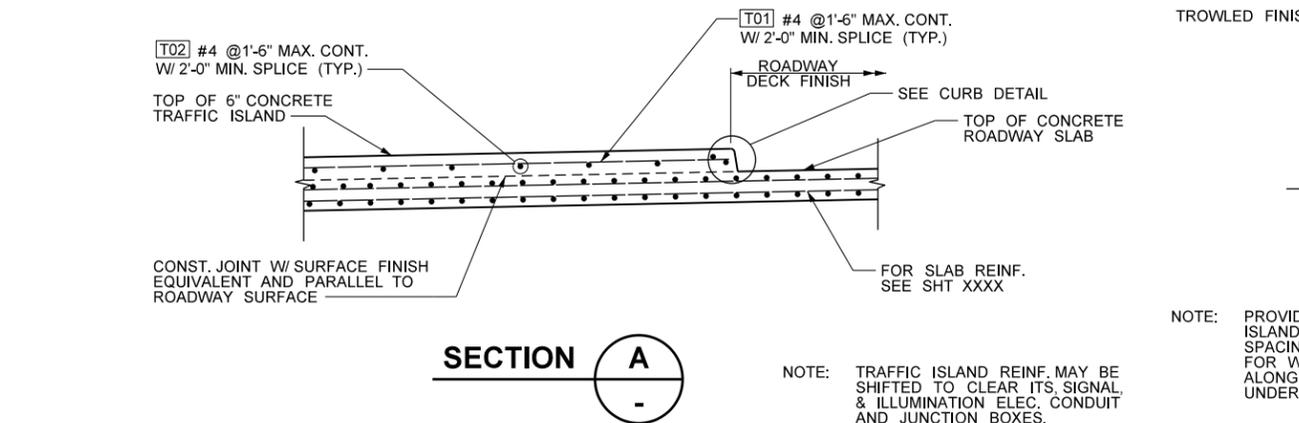
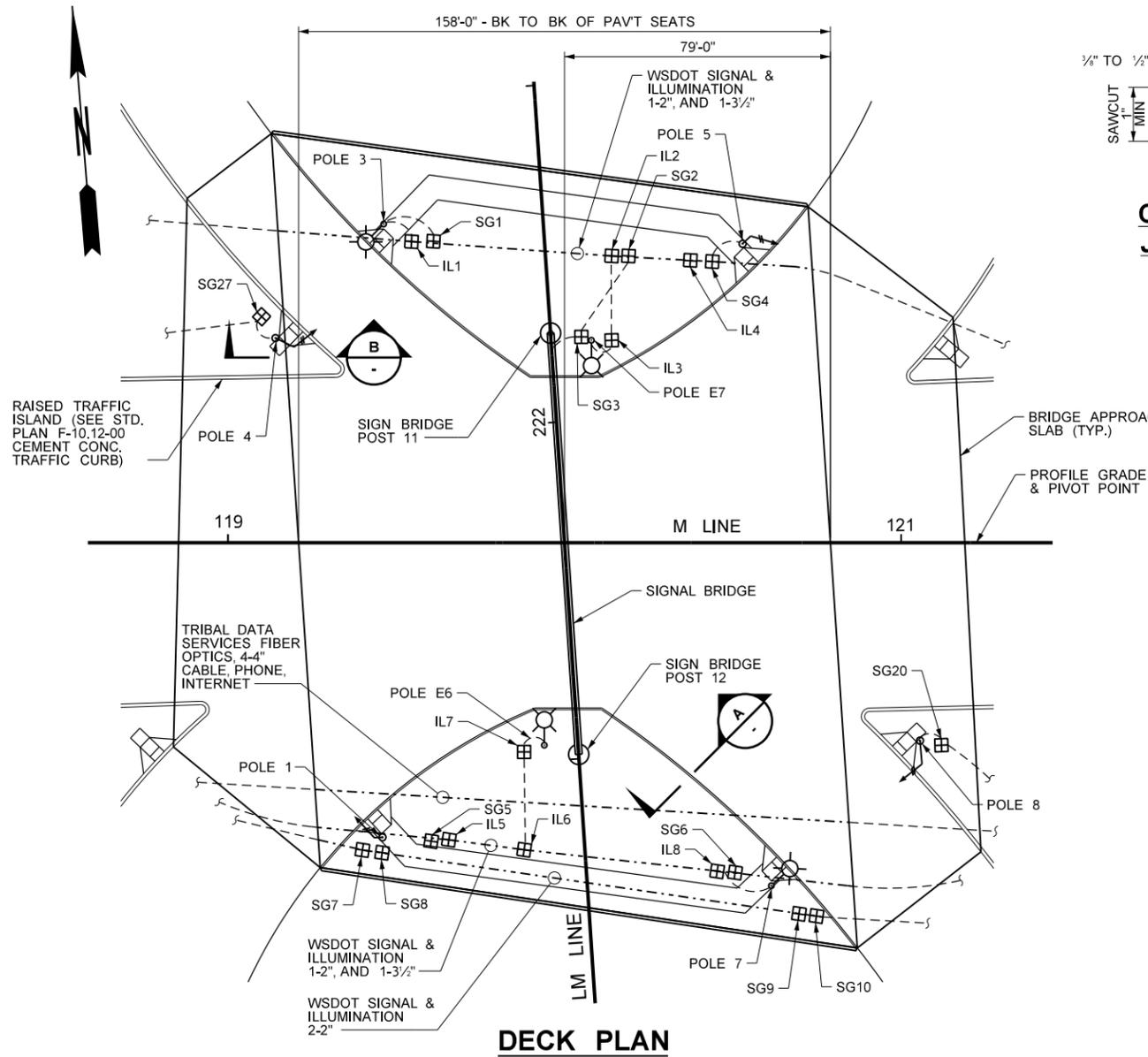
NO.	STATION	OFFSET
SIGN POST 11	M 119+95.85	62.1' LT
SIGN POST 12	M 120+04.19	62.7' RT

SIGNAL / ILLUMINATION JUNCTION BOX LOCATIONS ON STRUCTURE

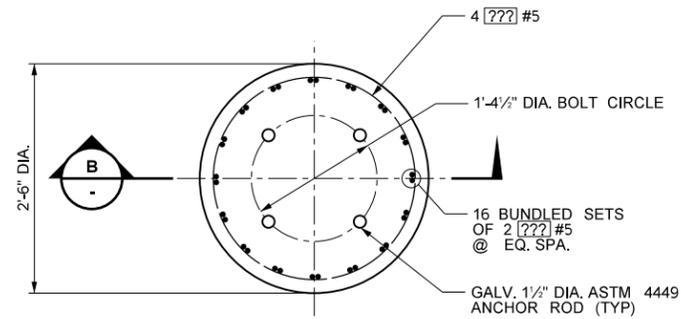
NO.	STATION	OFFSET
IL1	NE 123+19	15.5' RT
IL2	M 120+14	85' LT
IL3	M 120+14	60' LT
IL4	WN 123+04	20.5' LT
IL5	ES 122+23	22.5' RT
IL6	M 119+88	91' RT
IL7	M 119+88	62' RT
IL8	SW 122+00	19' LT
SG1	NE 123+14	20' RT
SG2	M 120+19	85' LT
SG3	M 120+05	61' LT
SG4	WN 123+09	16' LT
SG5	ES 122+23	24' RT
SG6	SW 121+99	18.5' LT
SG7	ES 122+04	12.5' RT
SG8	ES 122+08	17' RT
SG9	SW 121+86	13' LT
SG10	SW 121+72	9.5' LT
SG20	M 121+12	60' RT
SG27	M 121+40	85' RT

SIGNAL LEGEND

- JUNCTION BOX
- PEDESTRIAN SIGNAL HEAD
- TYPE PS POLE
- STREET LIGHT POLE
- CONDUIT UNDER SUPERSTRUCTURE
- CONDUIT IN TRAFFIC ISLAND OR UNDER APPROACH SLAB



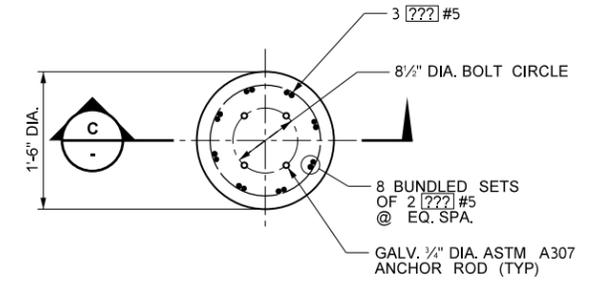
FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svc\CAD\IBridge\100% Plans\BL 1598033_BG_DECK.dgn			REGION NO.	STATE	FED.AID PROJ.NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS DECK PLAN	PLAN REF NO
TIME	11:09:56 AM			10	WASH					BR65
DATE	11/1/2012			JOB NUMBER					SHEET	
PLOTTED BY	valenalv			CONTRACT NO.					OF	
DESIGNED BY	J. MERTH			LOCATION NO.					SHEETS	
ENTERED BY	V. SCHICCHI									
CHECKED BY	R. MURRAY									
PROJ. ENGR.	R.A. LEWIS									
REGIONAL ADM.	L. ENG									



NOTE: VERIFY ANCHOR RODS AND SPACING WITH POLE VENDOR.

PLAN

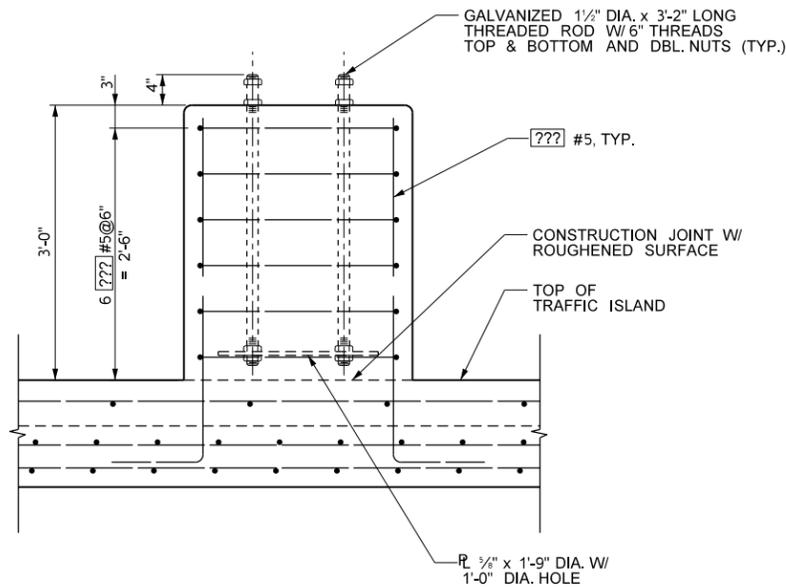
**ITS CAMERA/LUMINAIRE
POLE FOUNDATION**



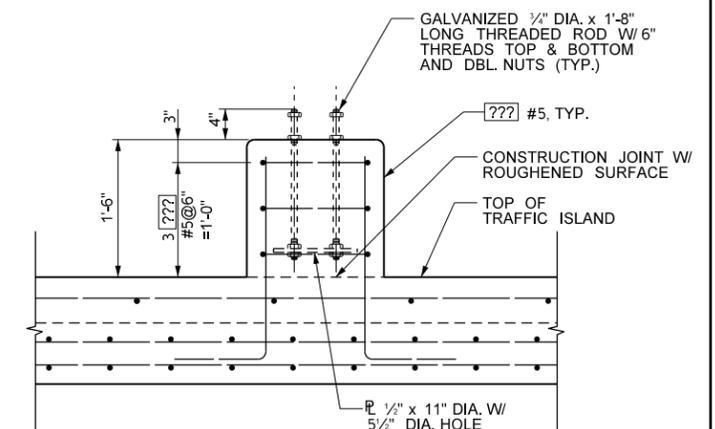
NOTE: VERIFY ANCHOR RODS AND SPACING WITH POLE VENDOR.

PLAN

**ADVANCE SIGNAL POLE/
PEDESTRIAN POLE FOUNDATION**



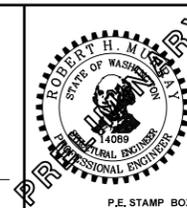
SECTION B



SECTION C

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\554-1598-033-116thPh3\99Svc\CADD\Bridg\100% Plans\BL 1598033_BG_DECK.dgn				FED.AID PROJ.NO.	
TIME	11:10:48 AM	REGION NO.	STATE	10 WASH	
DATE	11/1/2012	JOB NUMBER			
PLOTTED BY	valenalv	CONTRACT NO.		LOCATION NO.	
DESIGNED BY	J. MERTH	REVISION	DATE	BY	
ENTERED BY	C.D. CLARK				
CHECKED BY	R. MURRAY				
PROJ. ENGR.	R.A. LEWIS				
REGIONAL ADM.	L. ENG				

P.E. STAMP BOX



DATE



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
LUMINAIRE / SIGNAL POLE
SUPPORT DETAILS

Plot 2
PLAN REF NO
BR66
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 = R											
TRANSPORTABLE ATTENUATOR MIN HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										30 FEET MIN. TO 100 FOOT MAX.	
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA										NO SPECIFIED DISTANCE REQUIRED	

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)											
LANE WIDTH (feet)	Posted Speed (mph)										
	25	30	35	40	45	50	55	60	65	70	
10	-	-	-	-	-	-	550	-	-	-	
11	-	-	-	-	-	-	605	660	-	-	
12	-	-	-	-	-	-	660	720	780	840	

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)



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

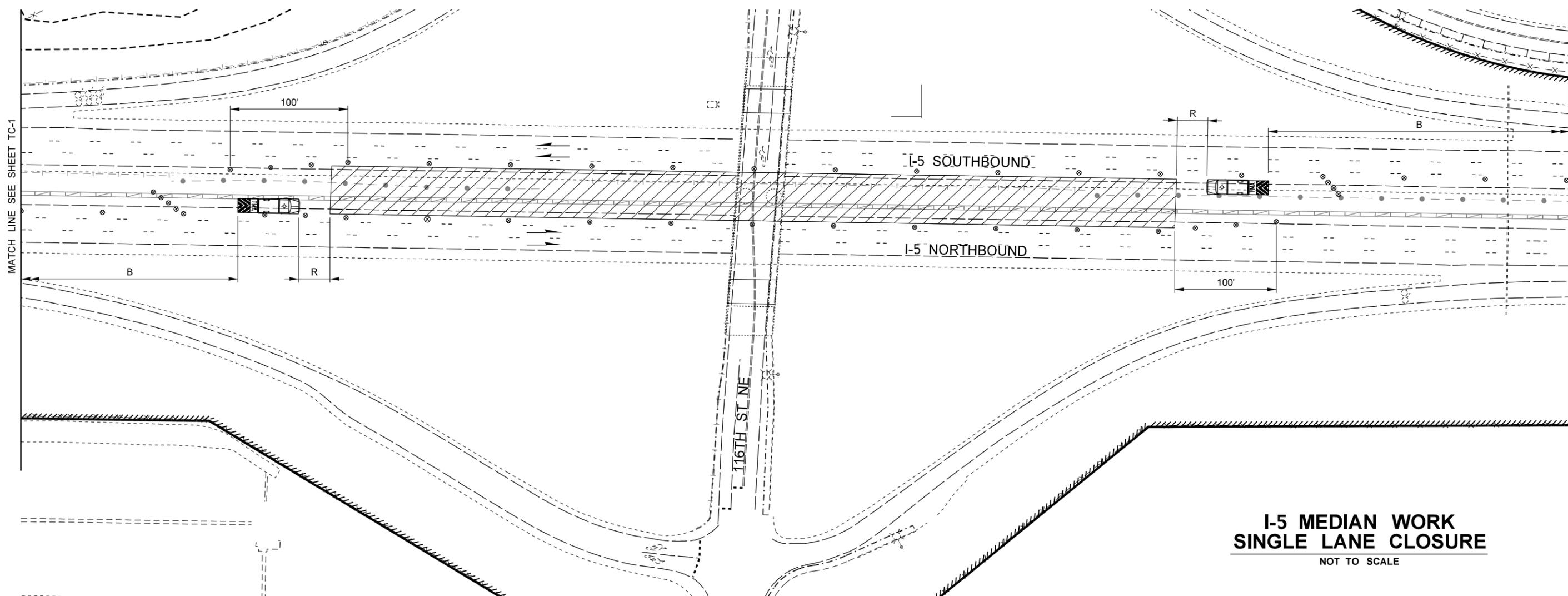
CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80

NOTES:

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- MINIMUM SHOULDER TAPER RATE = L/3.

LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE



**I-5 MEDIAN WORK
SINGLE LANE CLOSURE**
NOT TO SCALE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADDIPS&ESheets\BL1598033_PS_TC.dgn										Plot 2
TIME	1:13:01 PM										PLAN REF NO
DATE	6/14/2012										TC2
PLOTTED BY	purgabut										SHEET
DESIGNED BY	E. SOTO										OF
ENTERED BY	E. SOTO										SHEETS
CHECKED BY	O. KIKUTA										
PROJ. ENGR.											
REGIONAL ADM.											
	REVISION	DATE	BY								



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS
TRAFFIC CONTROL PLAN

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 = R										
TRANSPORTABLE ATTENUATOR MIN HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										30 FEET MIN. TO 100 FOOT MAX.
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA										NO SPECIFIED DISTANCE REQUIRED

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80

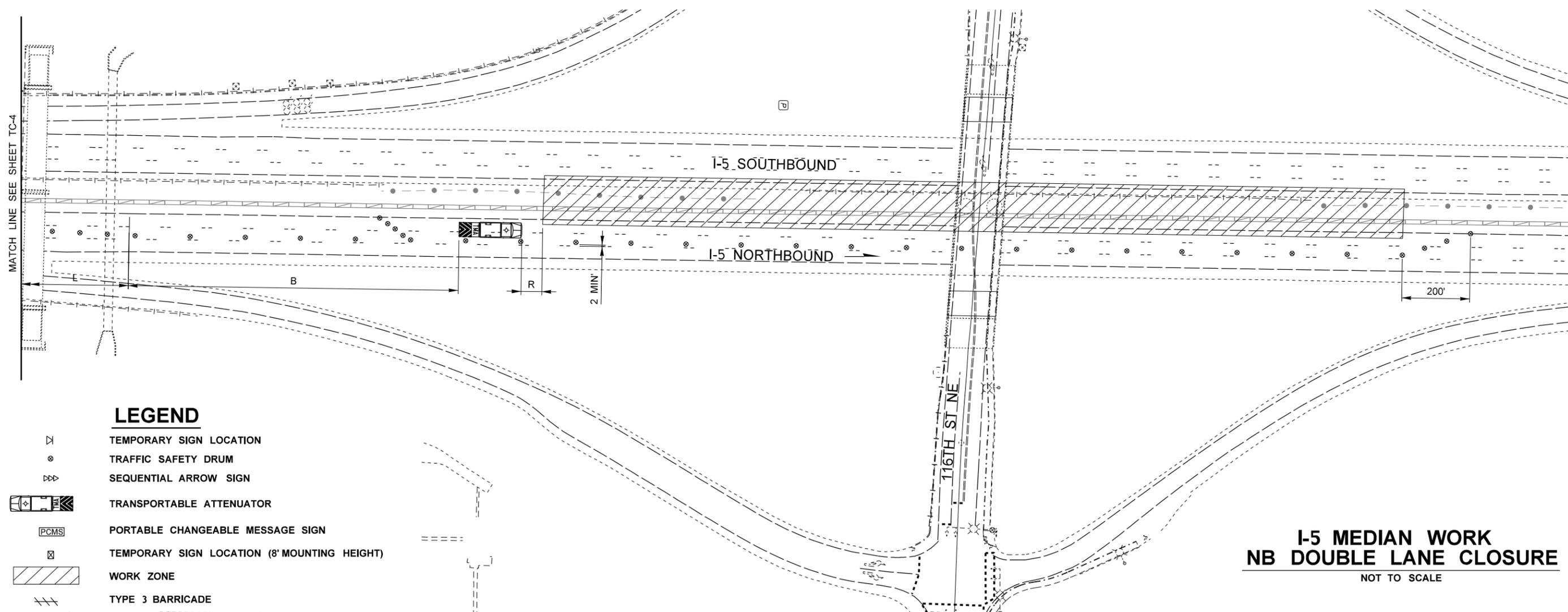
SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)



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

NOTES:

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- MINIMUM SHOULDER TAPER RATE = L/3.



LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE

**I-5 MEDIAN WORK
 NB DOUBLE LANE CLOSURE**
 NOT TO SCALE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalp Tr\bes1554-1598-033-116thPh3199Svc\cadd\IPS&ESheets\BL1598033_PS_TC.dgn				REGION NO.	STATE	FED.AID PROJ.NO.			Plot 5
TIME	1:13:39 PM				10	WASH				PLAN REF NO TC5
DATE	6/14/2012				JOB NUMBER					SHEET
PLOTTED BY	purgabut				CONTRACT NO.		LOCATION NO.			OF
DESIGNED BY	E. SOTO									SHEETS
ENTERED BY	E. SOTO									
CHECKED BY	O. KIKUTA									
PROJ. ENGR.										
REGIONAL ADM.		REVISION	DATE	BY						

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 = R										
TRANSPORTABLE ATTENUATOR MIN HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.									30 FEET MIN. TO 100 FOOT MAX.	
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA									NO SPECIFIED DISTANCE REQUIRED	

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
		25	30	35	40	45	50	55	60	65
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80

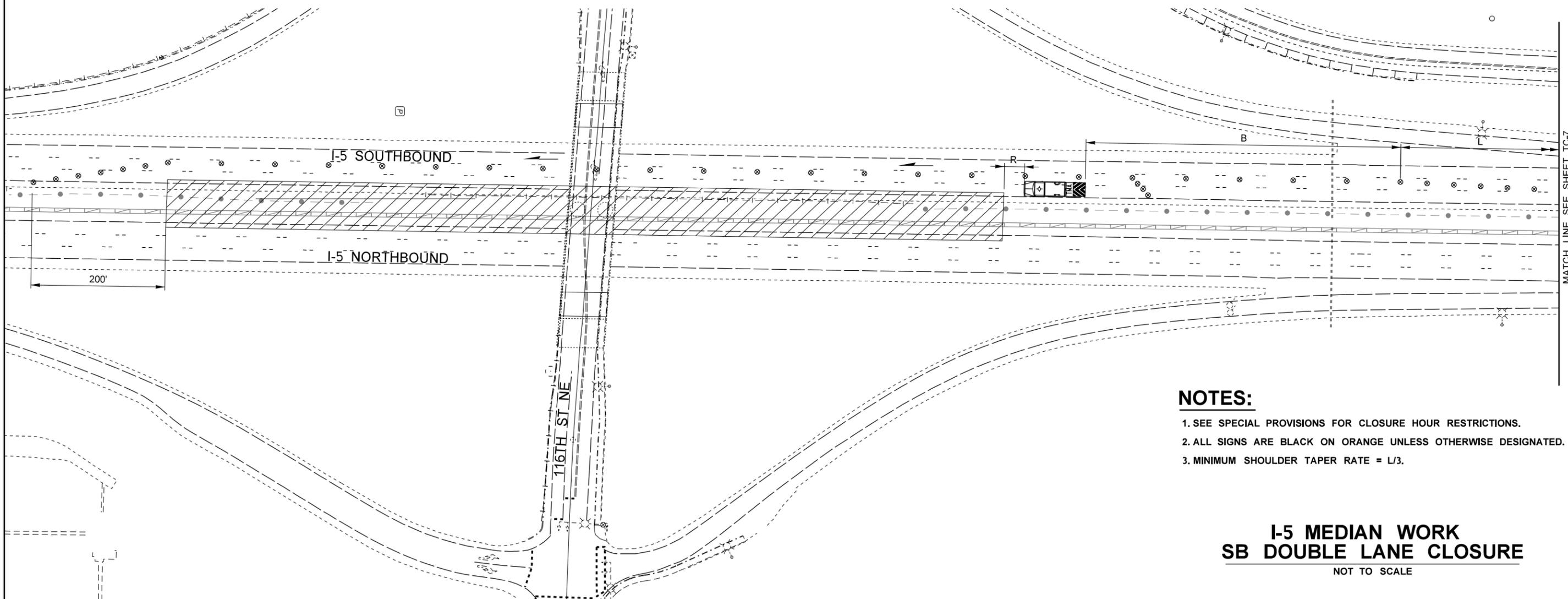
SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)



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

LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE



NOTES:

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
3. MINIMUM SHOULDER TAPER RATE = L/3.

**I-5 MEDIAN WORK
 SB DOUBLE LANE CLOSURE**
 NOT TO SCALE

FILE NAME	U:\BellProjects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3199Svcs\CADDIPS&ESheets\BL1598033_PS_TC.dgn										Plot 6
TIME	1:13:50 PM										PLAN REF NO
DATE	6/14/2012										TC6
PLOTTED BY	purgabut										SHEET
DESIGNED BY	E. SOTO										OF
ENTERED BY	E. SOTO										SHEETS
CHECKED BY	O. KIKUTA										
PROJ. ENGR.											
REGIONAL ADM.	REVISION	DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.	DATE	DATE	DATE	DATE	
				10	WASH						
				JOB NUMBER							
				CONTRACT NO.		LOCATION NO.					



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 = R										
TRANSPORTABLE ATTENUATOR MIN HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										30 FEET MIN. TO 100 FOOT MAX.
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA										NO SPECIFIED DISTANCE REQUIRED

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
		25	30	35	40	45	50	55	60	65
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80

PCMS	
PHASE 1	PHASE 2
LEFT 2 LANES CLOSED	ONE MILE AHEAD
1.5 SEC	1.5 SEC

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

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)



- (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.

NOTES:

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
3. MINIMUM SHOULDER TAPER RATE = L/3.



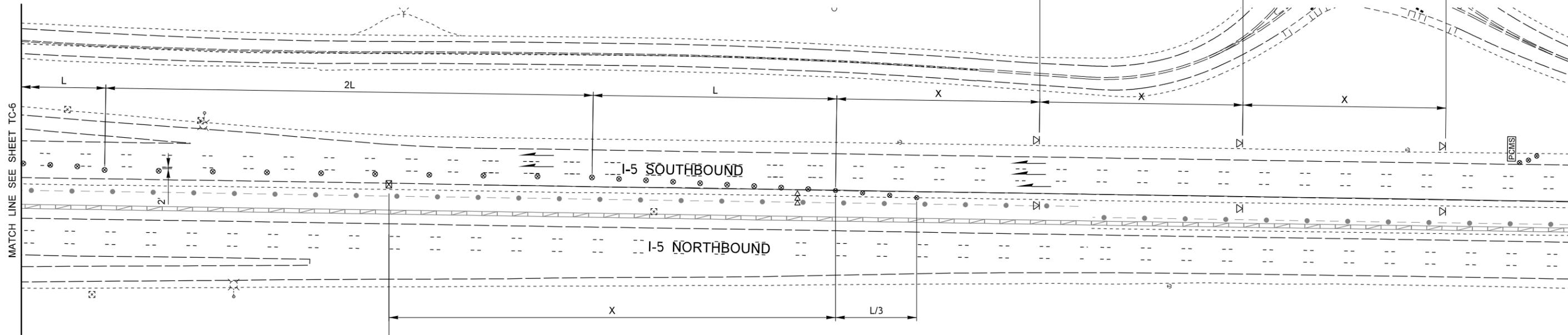
W4-2R



W20-501 (MOD)



W20-1



LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE



W4-2R

**I-5 MEDIAN WORK
SB DOUBLE LANE CLOSURE**
NOT TO SCALE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh\3199Svcs\CADD\PS&ESheets\BL1598033_PS_TC.dgn			REGION NO.	STATE	FED.AID PROJ.NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS TRAFFIC CONTROL PLAN	Plot 7
TIME	1:14:01 PM			10	WASH					PLAN REF NO TC7
DATE	6/14/2012			JOB NUMBER					SHEET	
PLOTTED BY	purgabut			CONTRACT NO.		LOCATION NO.			OF	
DESIGNED BY	E. SOTO								SHEETS	
ENTERED BY	E. SOTO									
CHECKED BY	O. KIKUTA									
PROJ. ENGR.										
REGIONAL ADM.		REVISION		DATE	BY					

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 = R										
TRANSPORTABLE ATTENUATOR MIN HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										30 FEET MIN. TO 100 FOOT MAX.
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA										NO SPECIFIED DISTANCE REQUIRED

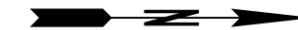
MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
		25	30	35	40	45	50	55	60	65
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80

PCMS	
PHASE 1	PHASE 2
RIGHT LANE CLOSED	ONE MILE AHEAD
1.5 SEC	1.5 SEC

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

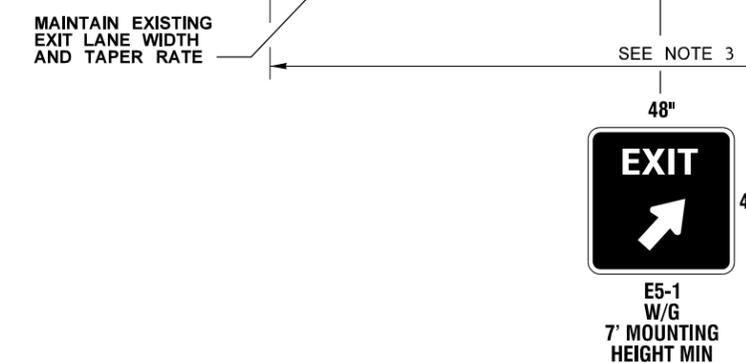
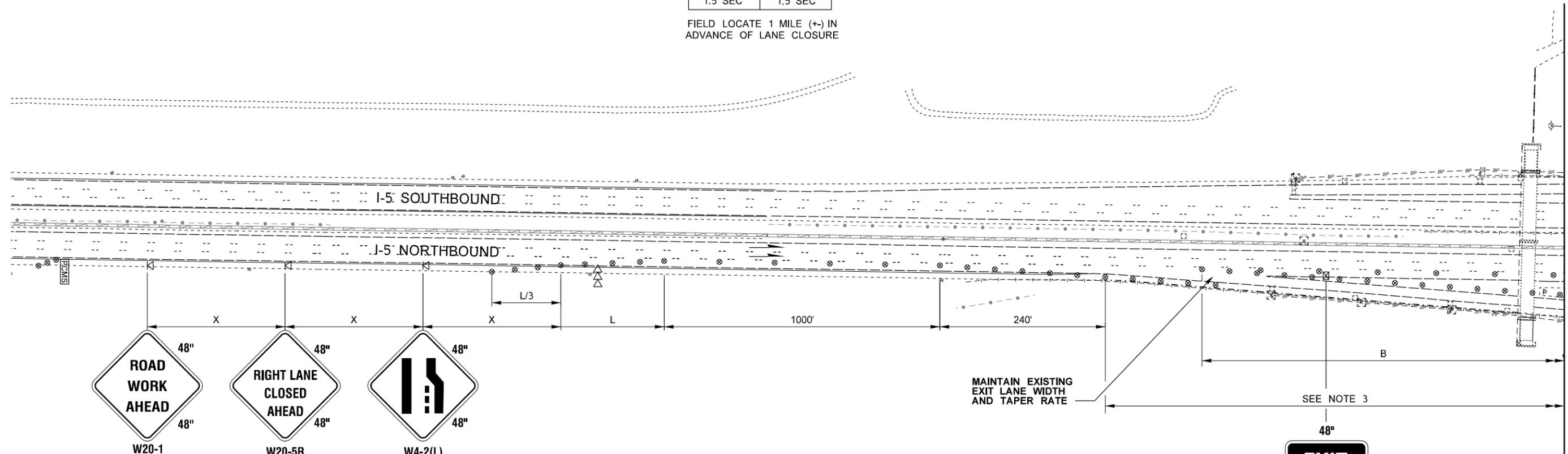
SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)



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

NOTES:

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- USE A SHORT TERM RAMP CLOSURE WHEN THE WORK AREA LOCATION RESTRICTS RAMP ACCESS. SEE TC12 - TC17.
- MINIMUM SHOULDER TAPER RATE = L/3.

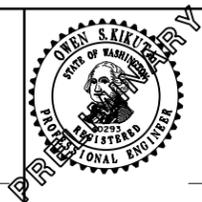


LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE

NB SINGLE LANE CLOSURE AT INTERCHANGE
NOT TO SCALE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svcs\CADD\PS&ESheets\BL1598033_PS_TC.dgn										Plot 8
TIME	1:14:13 PM										PLAN REF NO
DATE	6/14/2012										TC8
PLOTTED BY	purgabut										SHEET
DESIGNED BY	E. SOTO										OF
ENTERED BY	E. SOTO										SHEETS
CHECKED BY	O. KIKUTA										
PROJ. ENGR.											
REGIONAL ADM.		REVISION		DATE	BY						



MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

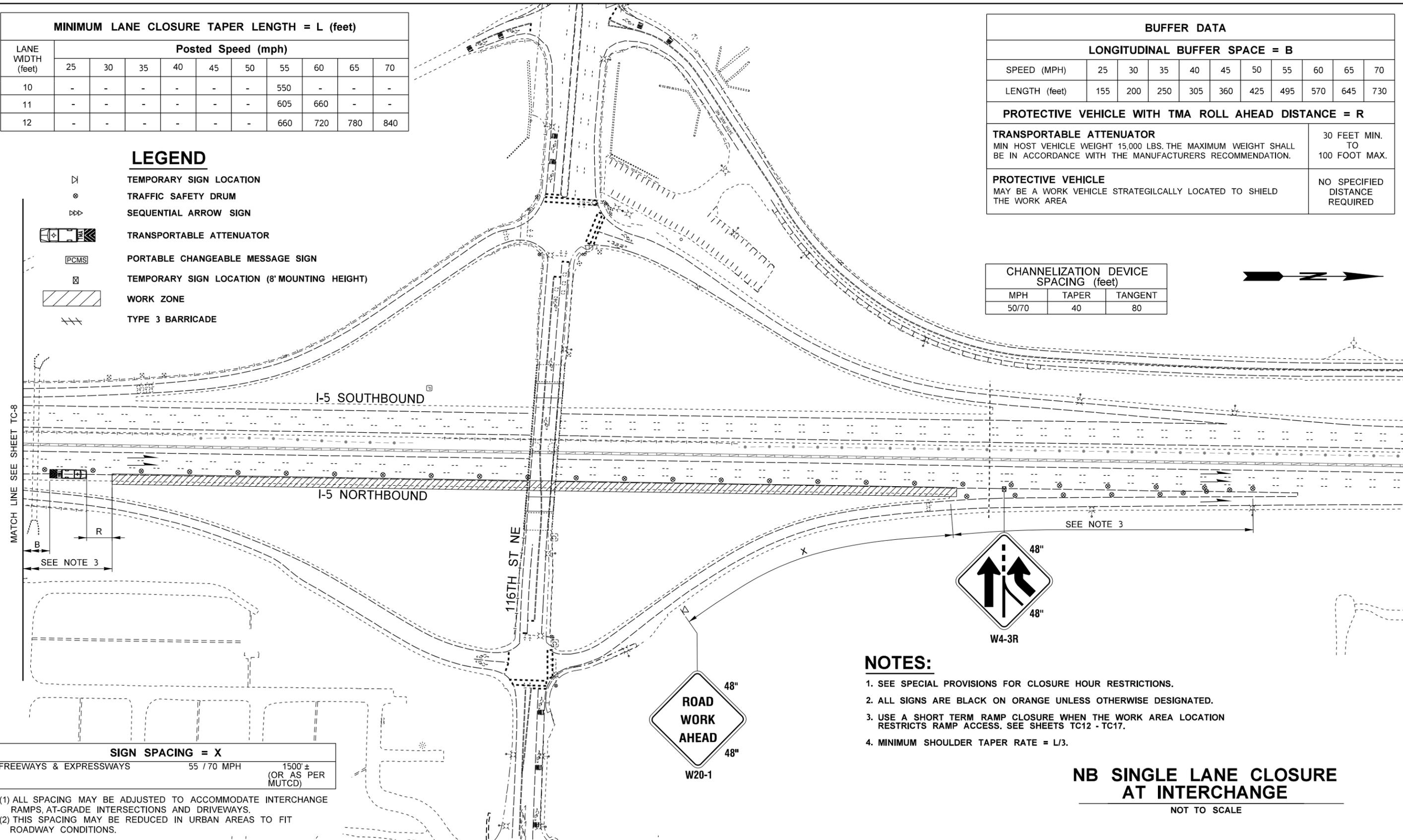
BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE = R										
TRANSPORTABLE ATTENUATOR MIN HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										30 FEET MIN. TO 100 FOOT MAX.
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA										NO SPECIFIED DISTANCE REQUIRED

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80

LEGEND

-  TEMPORARY SIGN LOCATION
-  TRAFFIC SAFETY DRUM
-  SEQUENTIAL ARROW SIGN
-  TRANSPORTABLE ATTENUATOR
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
-  WORK ZONE
-  TYPE 3 BARRICADE

MATCH LINE SEE SHEET TC-8



SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)

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

NOTES:

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- USE A SHORT TERM RAMP CLOSURE WHEN THE WORK AREA LOCATION RESTRICTS RAMP ACCESS. SEE SHEETS TC12 - TC17.
- MINIMUM SHOULDER TAPER RATE = L/3.

NB SINGLE LANE CLOSURE AT INTERCHANGE

NOT TO SCALE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\PS&ESheets\BL1598033_PS_TC.dgn					FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 9
TIME	1:14:25 PM										PLAN REF NO
DATE	6/14/2012										SHEET
PLOTTED BY	purgabut										OF
DESIGNED BY	E. SOTO										SHEETS
ENTERED BY	E. SOTO										
CHECKED BY	O. KIKUTA										
PROJ. ENGR.											
REGIONAL ADM.		REVISION	DATE	BY							

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

SIGN SPACING = X

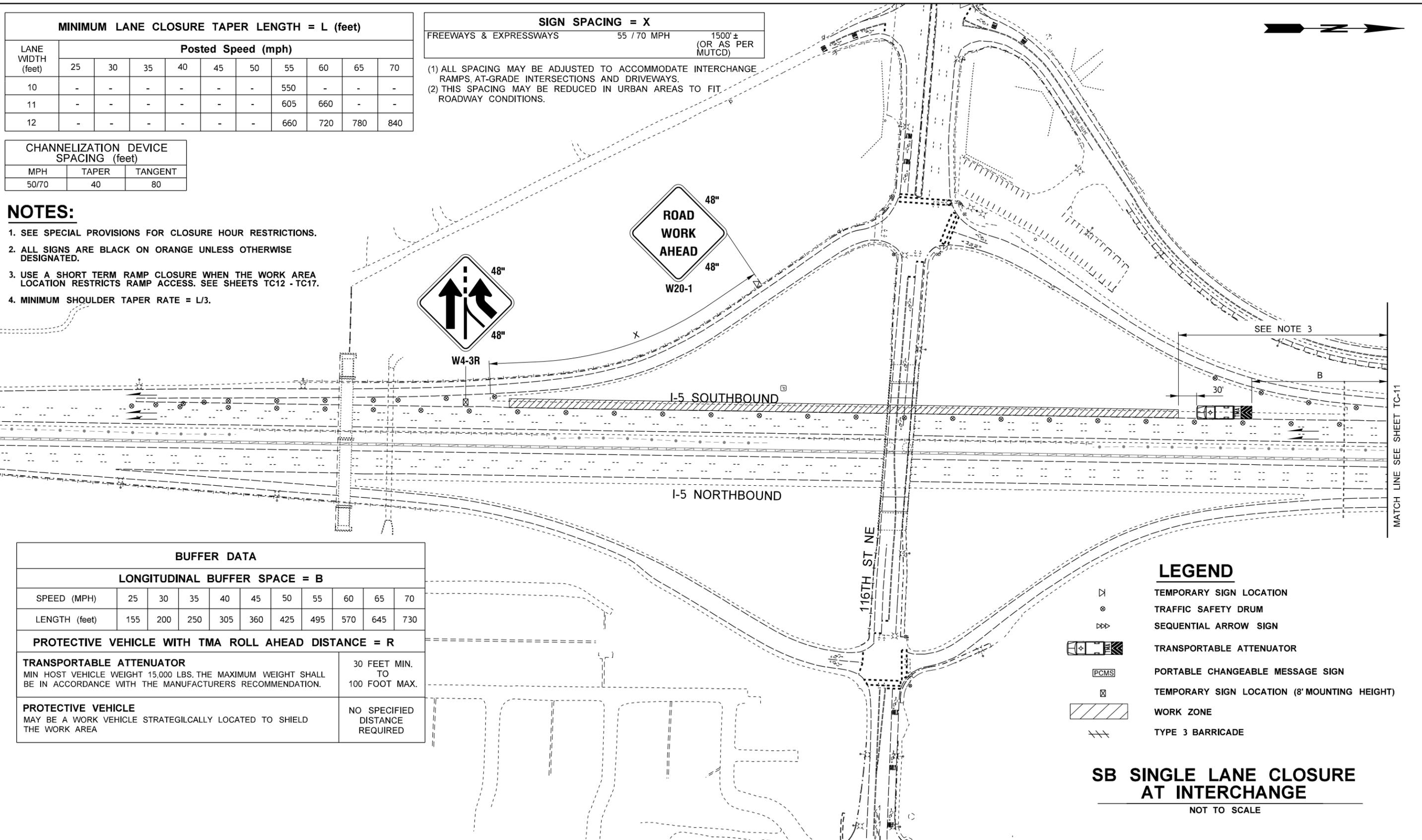
FREEWAYS & EXPRESSWAYS 55 / 70 MPH 1500'± (OR AS PER MUTCD)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, 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	40	80

NOTES:

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- USE A SHORT TERM RAMP CLOSURE WHEN THE WORK AREA LOCATION RESTRICTS RAMP ACCESS. SEE SHEETS TC12 - TC17.
- MINIMUM SHOULDER TAPER RATE = L/3.



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 = R										
TRANSPORTABLE ATTENUATOR MIN HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.							30 FEET MIN. TO 100 FOOT MAX.			
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA							NO SPECIFIED DISTANCE REQUIRED			

LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE

SB SINGLE LANE CLOSURE AT INTERCHANGE
NOT TO SCALE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADDIPS&ESheets\BL1598033_PS_TC.dgn										Plot 10	
TIME	1:14:38 PM										PLAN REF NO	
DATE	6/14/2012										TC10	
PLOTTED BY	purgabut										SHEET	
DESIGNED BY	E. SOTO										OF	
ENTERED BY	E. SOTO										SHEETS	
CHECKED BY	O. KIKUTA											
PROJ. ENGR.												
REGIONAL ADM.	REVISION	DATE	BY	FED.AID PROJ.NO.	10	WASH	STATE	REGION NO.	10	CONTRACT NO.	LOCATION NO.	

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX

I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

TRAFFIC CONTROL PLAN

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 = R										
TRANSPORTABLE ATTENUATOR MIN HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										30 FEET MIN. TO 100 FOOT MAX.
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA										NO SPECIFIED DISTANCE REQUIRED

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
		25	30	35	40	45	50	55	60	65
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

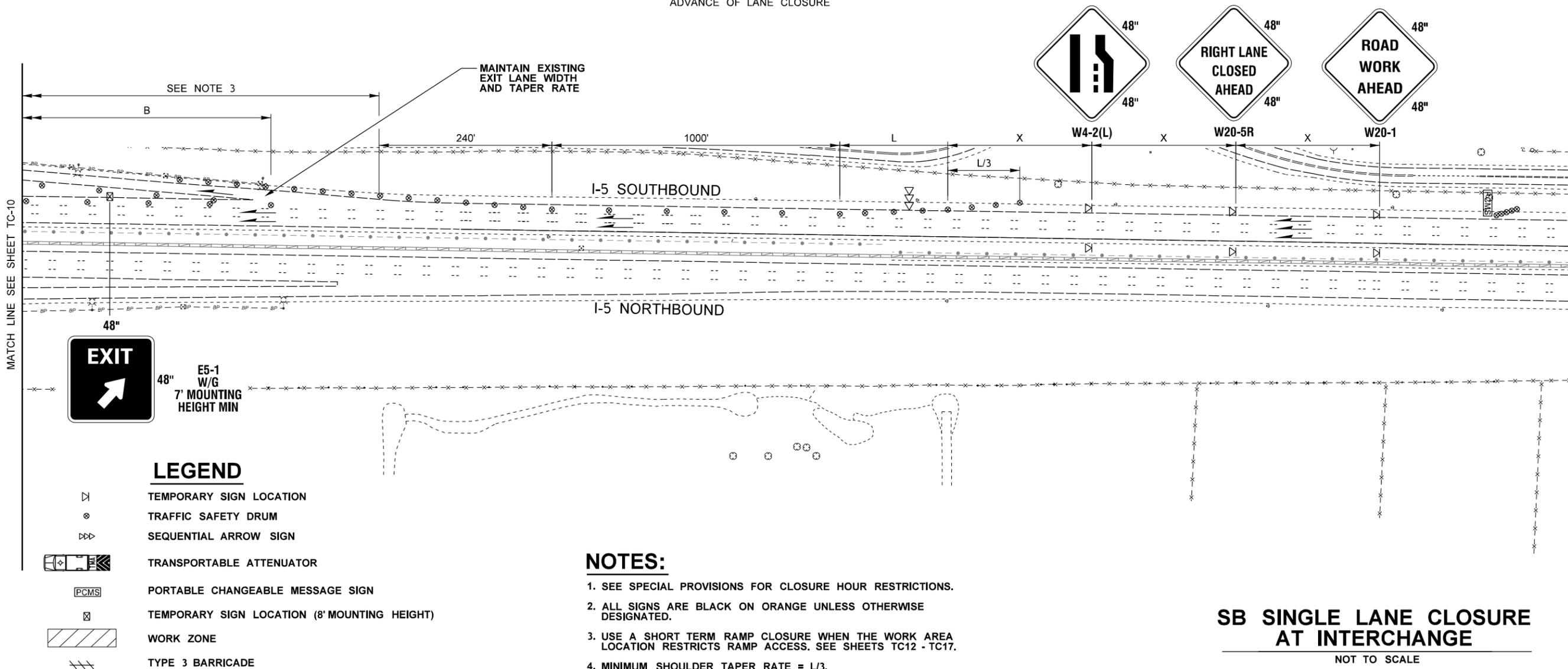
SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, 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	40	80

PCMS	
PHASE 1	PHASE 2
RIGHT LANE CLOSED	ONE MILE AHEAD
1.5 SEC	1.5 SEC

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



SB SINGLE LANE CLOSURE AT INTERCHANGE
NOT TO SCALE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svcs\CADDIPS&ESheets\BL1598033_PS_TC.dgn		
TIME	1:14:54 PM		
DATE	6/14/2012		
PLOTTED BY	purgabut		
DESIGNED BY	E. SOTO		
ENTERED BY	E. SOTO		
CHECKED BY	O. KIKUTA		
PROJ. ENGR.			
REGIONAL ADM.	REVISION	DATE	BY

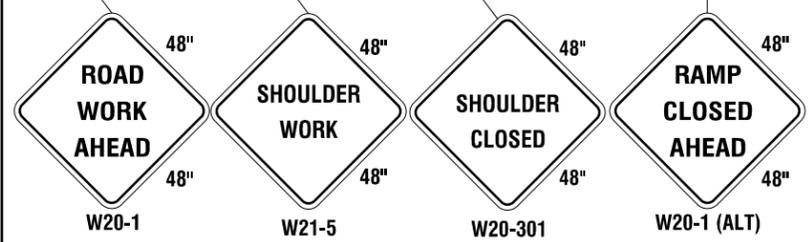
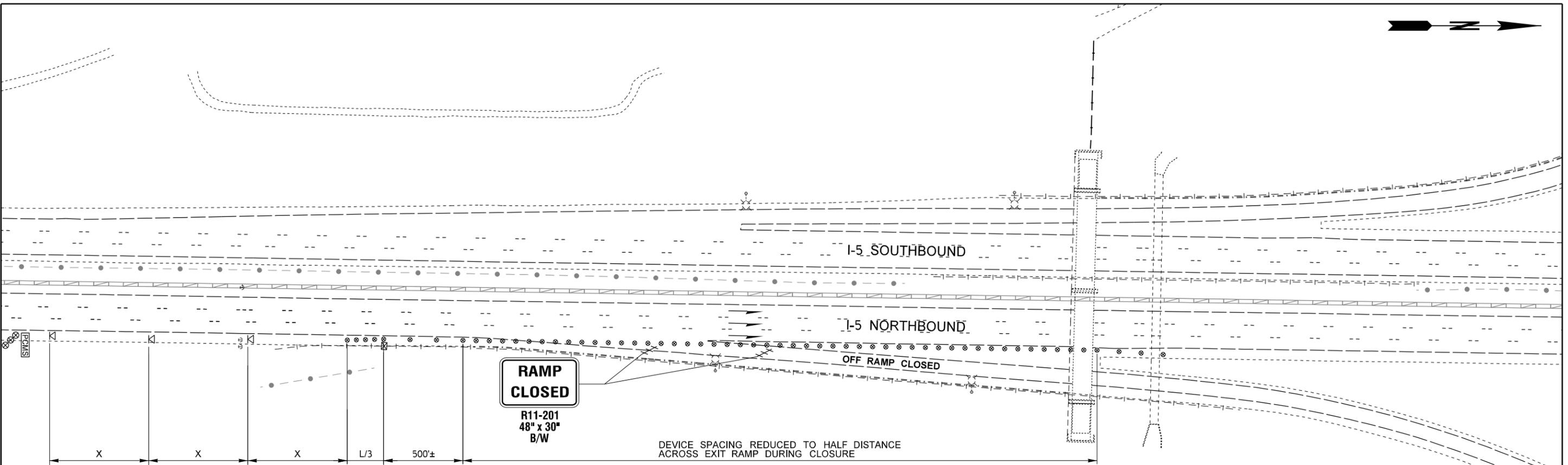
REGION NO.	STATE	FED.AID PROJ.NO.
10	WASH	
JOB NUMBER		
CONTRACT NO.	LOCATION NO.	

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		PLAN REF NO TC11
TRAFFIC CONTROL PLAN		SHEET OF SHEETS



**RAMP
CLOSED**
R11-201
48" x 30"
B/W

DEVICE SPACING REDUCED TO HALF DISTANCE
ACROSS EXIT RAMP DURING CLOSURE

NOTES:

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
3. SEE DETOUR PLAN ON SHEET DU1.
4. MINIMUM SHOULDER TAPER RATE = L/3.

**RAMP
WILL BE
CLOSED**
MON DA - MON DA
XPM XAM

R11-1501
48" x 60"
B/W
INSTALL 5 DAYS MIN.
PRIOR TO CLOSURE

PCMS	
PHASE 1	PHASE 2
EXIT 202 CLOSED	USE EXIT 206
1.5 SEC	1.5 SEC

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80

- (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.

LANE WIDTH (feet)	MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

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

LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE

**NB I-5 OFF-RAMP
SHORT TERM CLOSURE**
NOT TO SCALE

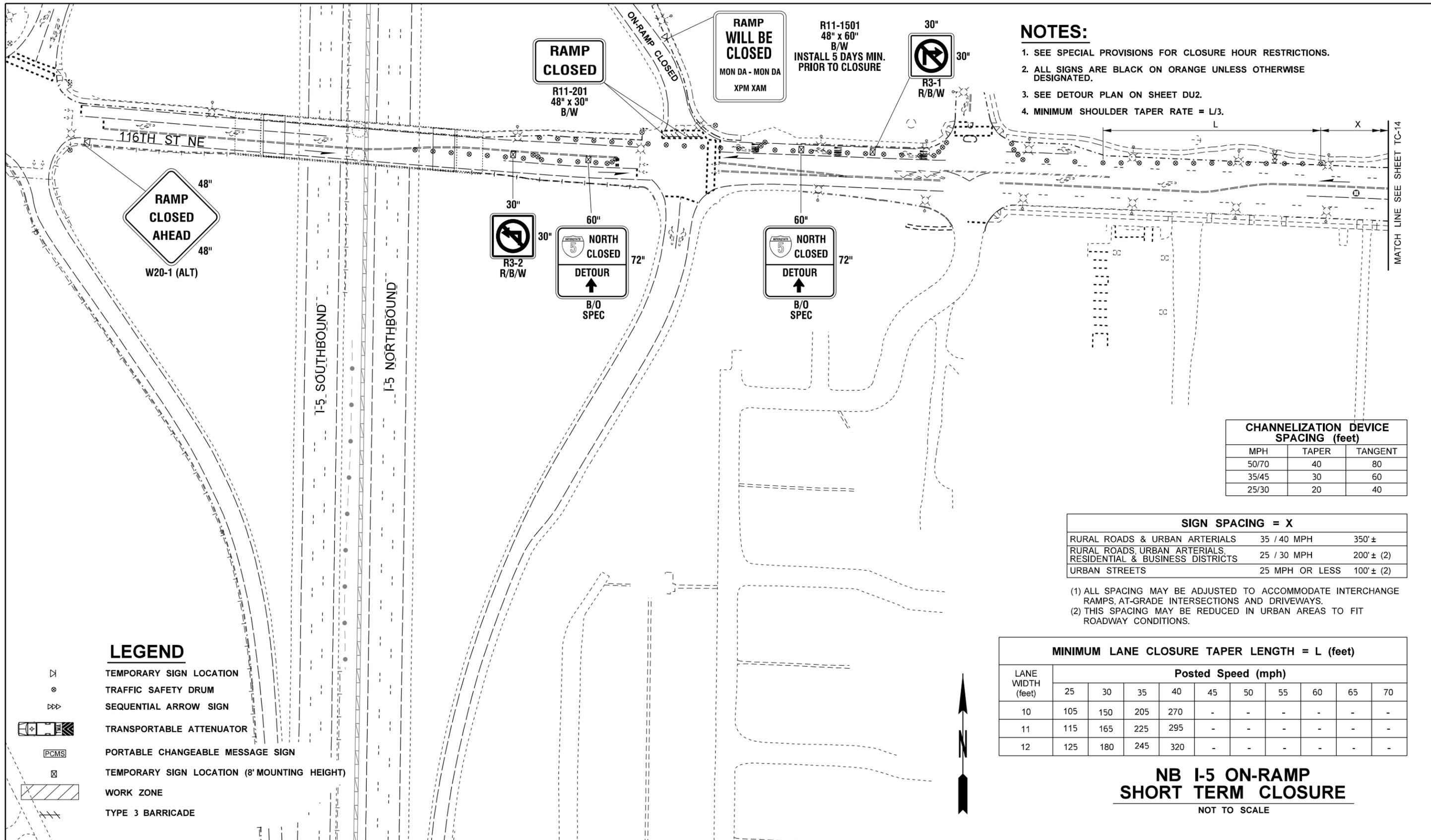
FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADDIPS&ESheets\BL1598033_PS_TC.dgn			REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:15:06 PM			10	WASH	
DATE	6/14/2012			JOB NUMBER		
PLOTTED BY	purgabut			CONTRACT NO.		LOCATION NO.
DESIGNED BY	E. SOTO					
ENTERED BY	E. SOTO					
CHECKED BY	O. KIKUTA					
PROJ. ENGR.						
REGIONAL ADM.	REVISION	DATE	BY			

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 12 PLAN REF NO TC12
TRAFFIC CONTROL PLAN	SHEET OF SHEETS



- NOTES:**
- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
 - ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
 - SEE DETOUR PLAN ON SHEET DU2.
 - MINIMUM SHOULDER TAPER RATE = L/3.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

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

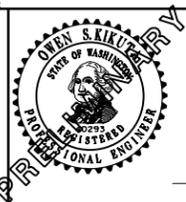
- (1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
 (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

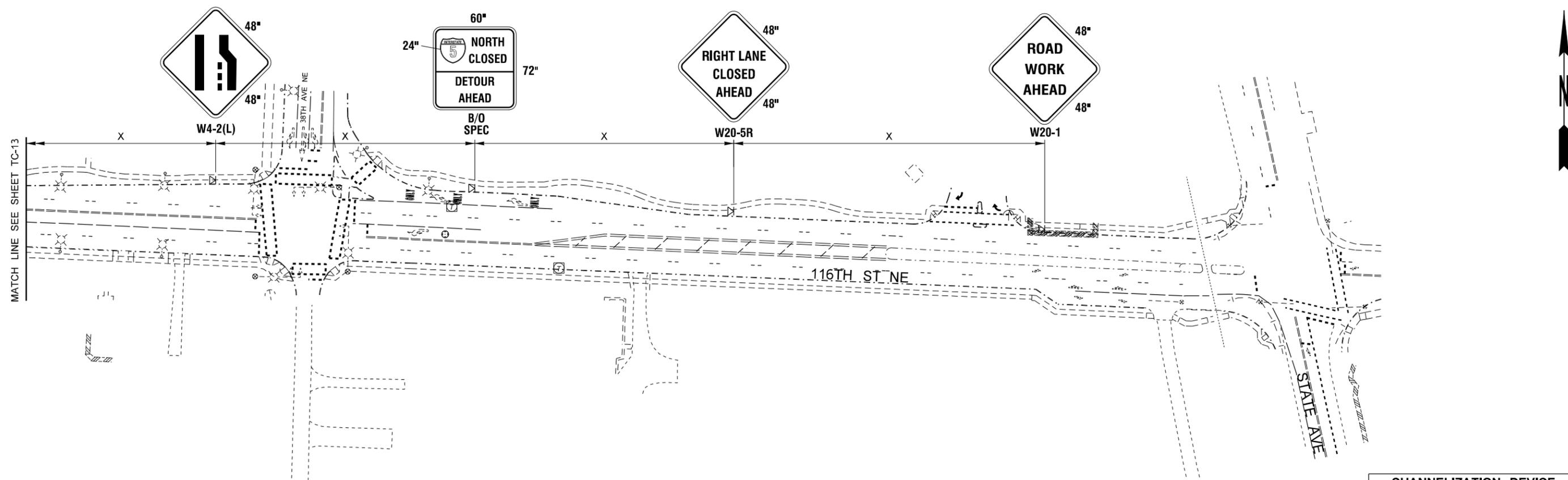
LANE WIDTH (feet)	MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	-	-	-	-	-	-
11	115	165	225	295	-	-	-	-	-	-
12	125	180	245	320	-	-	-	-	-	-

**NB I-5 ON-RAMP
SHORT TERM CLOSURE**
NOT TO SCALE

- LEGEND**
- TEMPORARY SIGN LOCATION
 - TRAFFIC SAFETY DRUM
 - SEQUENTIAL ARROW SIGN
 - TRANSPORTABLE ATTENUATOR
 - PORTABLE CHANGEABLE MESSAGE SIGN
 - TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
 - WORK ZONE
 - TYPE 3 BARRICADE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADD\PS&ESheets\BL1598033_PS_TC.dgn			FED.AID PROJ.NO.								Plot 13
TIME	1:15:18 PM			REGION NO.	10	STATE	WASH					PLAN REF NO
DATE	6/14/2012			JOB NUMBER								TC13
PLOTTED BY	purgabut			CONTRACT NO.		LOCATION NO.						SHEET
DESIGNED BY	E. SOTO											OF
ENTERED BY	E. SOTO											SHEETS
CHECKED BY	O. KIKUTA											
PROJ. ENGR.												
REGIONAL ADM.		REVISION		DATE		BY						





CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

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

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

LANE WIDTH (feet)	MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	-	-	-	-	-	-
11	115	165	225	295	-	-	-	-	-	-
12	125	180	245	320	-	-	-	-	-	-

**NB I-5 ON-RAMP
SHORT TERM CLOSURE**
NOT TO SCALE

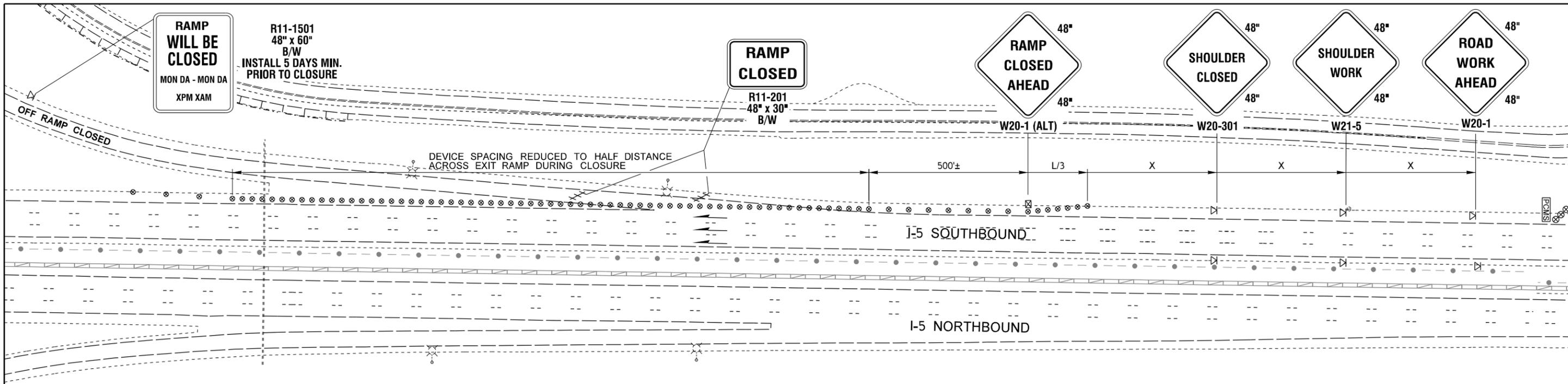
LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE

NOTES:

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
3. SEE DETOUR PLAN ON SHEET DU2.
4. MINIMUM SHOULDER TAPER RATE = L/3.

FILE NAME: U:\Bell\Projects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3\99Svcs\CADD\PS&ESheets\BL1598033_PS_TC.dgn		REGION NO. STATE		FED.AID PROJ.NO.		 Parametrix	I-5		Plot 14
TIME: 1:15:32 PM		10	WASH				116TH ST NE		PLAN REF NO
DATE: 6/14/2012		JOB NUMBER		LOCATION NO.		INTERCHANGE IMPROVEMENTS		SHEET	
PLOTTED BY: purgabut		CONTRACT NO.				TRAFFIC CONTROL PLAN		OF	
DESIGNED BY: E. SOTO								SHEETS	
ENTERED BY: E. SOTO									
CHECKED BY: O. KIKUTA									
PROJ. ENGR.									
REGIONAL ADM.	REVISION	DATE	BY	P.E. STAMP BOX	DATE	P.E. STAMP BOX	DATE		



MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80

SIGN SPACING = X	
FREEWAYS & EXPRESSWAYS	55 / 70 MPH 1500' ± (OR AS PER MUTCD)

- (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.

PCMS	
PHASE 1	PHASE 2
EXIT 202 CLOSED	USE EXIT 200
1.5 SEC	1.5 SEC

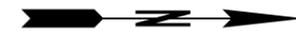
FIELD LOCATE 1 MILE (+-) IN ADVANCE OF LANE CLOSURE

NOTES:

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- SEE DETOUR PLAN ON SHEET DU3.
- MINIMUM SHOULDER TAPER RATE = L/3.

LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE



SB I-5 OFF-RAMP SHORT TERM CLOSURE

NOT TO SCALE

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svcs\CADD\PS&ESheets\BL1598033_PS_TC.dgn			
TIME	1:15:44 PM			
DATE	6/14/2012			
PLOTTED BY	purgabut			
DESIGNED BY	E. SOTO			
ENTERED BY	E. SOTO			
CHECKED BY	O. KIKUTA			
PROJ. ENGR.				
REGIONAL ADM.	REVISION	DATE	BY	FED.AID PROJ.NO.
				10 WASH
				JOB NUMBER
				CONTRACT NO.
				LOCATION NO.

P.E. STAMP BOX

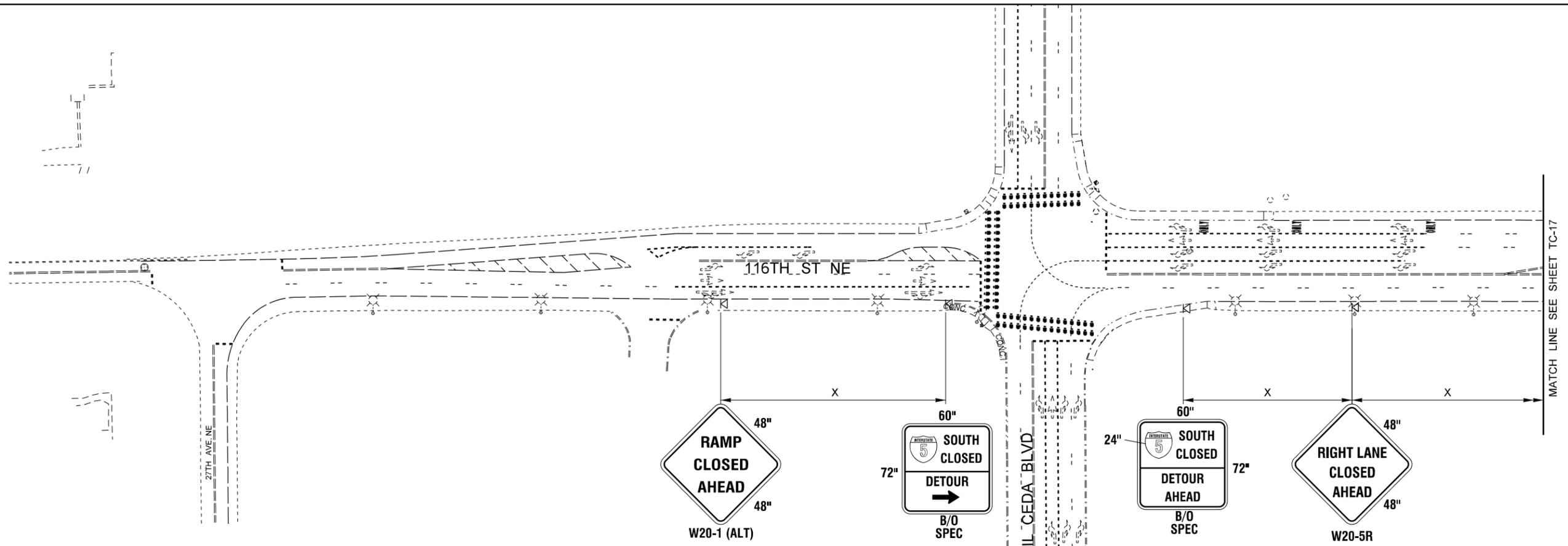
DATE

P.E. STAMP BOX

DATE



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 15 PLAN REF NO TC15
TRAFFIC CONTROL PLAN		SHEET OF SHEETS



CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

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

- (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.

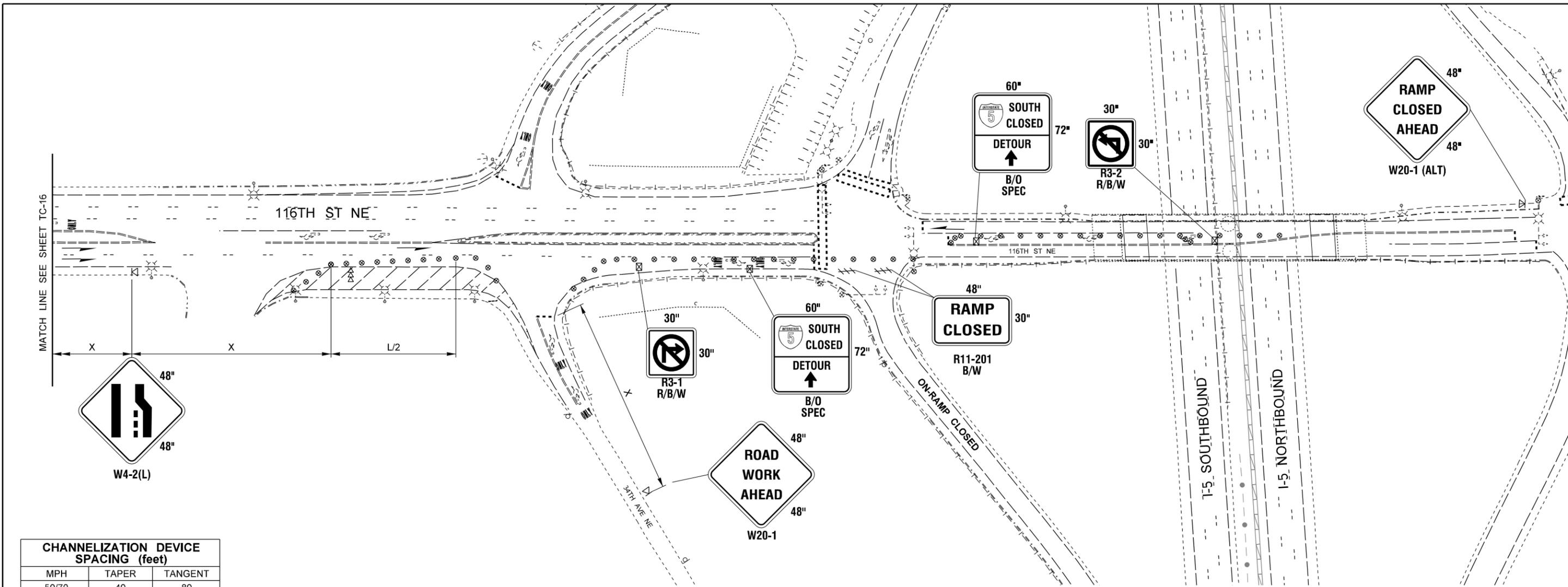
LANE WIDTH (feet)	MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	-	-	-	-	-	-
11	115	165	225	295	-	-	-	-	-	-
12	125	180	245	320	-	-	-	-	-	-

- LEGEND**
- TEMPORARY SIGN LOCATION
 - TRAFFIC SAFETY DRUM
 - SEQUENTIAL ARROW SIGN
 - TRANSPORTABLE ATTENUATOR
 - PORTABLE CHANGEABLE MESSAGE SIGN
 - TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
 - WORK ZONE
 - TYPE 3 BARRICADE

- NOTES:**
1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
 2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
 3. SEE DETOUR PLAN ON SHEET DU4.
 4. MINIMUM SHOULDER TAPER RATE = L/3.

**SB I-5 ON-RAMP
SHORT TERM CLOSURE**
NOT TO SCALE

FILE NAME: U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\199Svcs\CADDIPS&ESheets\BL1598033_PS_TC.dgn TIME: 1:15:59 PM DATE: 6/14/2012 PLOTTED BY: purgabut DESIGNED BY: E. SOTO ENTERED BY: E. SOTO CHECKED BY: O. KIKUTA PROJ. ENGR. REGIONAL ADM.	REVISION DATE BY	REGION NO. STATE 10 WASH JOB NUMBER CONTRACT NO.	FED.AID PROJ.NO. LOCATION NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS TRAFFIC CONTROL PLAN	Plot 16 PLAN REF NO TC16 SHEET OF SHEETS
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CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

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

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

LANE WIDTH (feet)	MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	-	-	-	-	-	-
11	115	165	225	295	-	-	-	-	-	-
12	125	180	245	320	-	-	-	-	-	-

- LEGEND**
- TEMPORARY SIGN LOCATION
 - TRAFFIC SAFETY DRUM
 - SEQUENTIAL ARROW SIGN
 - TRANSPORTABLE ATTENUATOR
 - PORTABLE CHANGEABLE MESSAGE SIGN
 - TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
 - WORK ZONE
 - TYPE 3 BARRICADE

NOTES:

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- SEE DETOUR PLAN ON SHEET DU4.
- MINIMUM SHOULDER TAPER RATE = L/3.

**SB I-5 ON-RAMP
SHORT TERM CLOSURE**
NOT TO SCALE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADDIPS&ESheets\BL1598033_PS_TC.dgn			REGION NO.	STATE	FED.AID PROJ.NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS TRAFFIC CONTROL PLAN	Plot 17
TIME	1:16:12 PM			10	WASH					PLAN REF NO TC17
DATE	6/14/2012			JOB NUMBER					SHEET	
PLOTTED BY	purgabut			CONTRACT NO.					OF	
DESIGNED BY	E. SOTO			LOCATION NO.					SHEETS	
ENTERED BY	E. SOTO									
CHECKED BY	O. KIKUTA									
PROJ. ENGR.										
REGIONAL ADM.		REVISION		DATE	BY					

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 = R										
TRANSPORTABLE ATTENUATOR MIN HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										30 FEET MIN. TO 100 FOOT MAX.
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA										NO SPECIFIED DISTANCE REQUIRED

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
		25	30	35	40	45	50	55	60	65
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

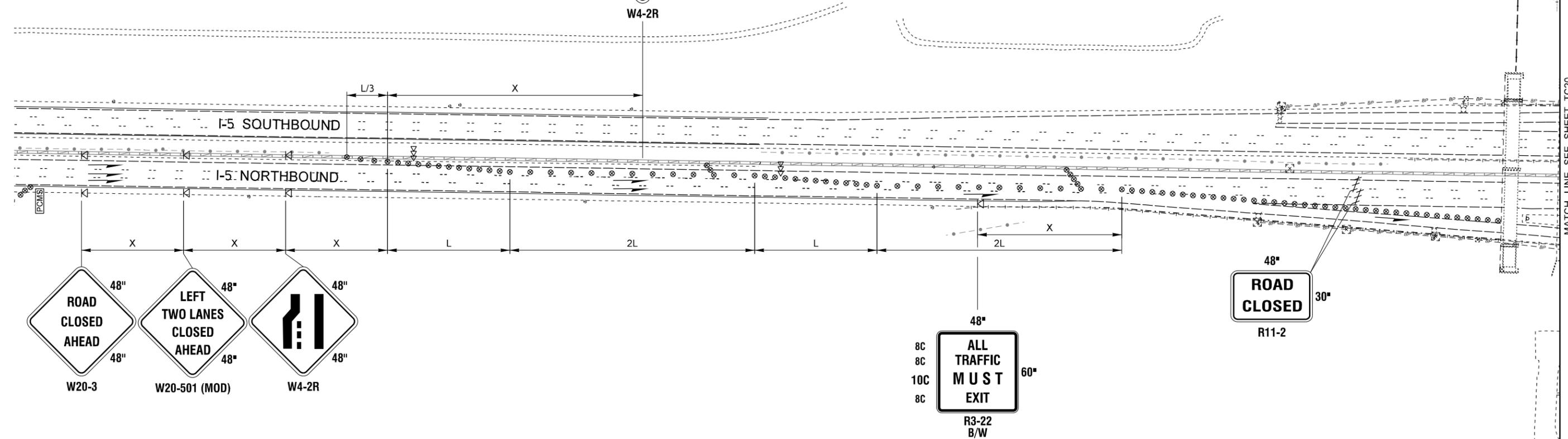
SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)

- (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	40	80



W4-2R



LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE

PCMS	
PHASE 1	PHASE 2
I-5 CLOSED AT 116TH ST	MERGE RIGHT AHEAD
1.5 SEC	1.5 SEC

FIELD LOCATE 1 MILE (+) IN ADVANCE OF DETOUR EXIT

NOTES:

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- SEE DETOUR PLAN ON SHEET DU5.
- MINIMUM SHOULDER TAPER RATE = L/3.

**NB I-5
SHORT TERM CLOSURE**
NOT TO SCALE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalp Trlbes\1554-1598-033-116thPh3\199Svcs\CADD\IPS&ESheets\BL1598033_PS_TC.dgn			FED.AID PROJ.NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS TRAFFIC CONTROL PLAN	Plot 18
TIME	1:16:29 PM							PLAN REF NO
DATE	6/14/2012			REGIONAL ADM.	REVISION	DATE	BY	SHEET
PLOTTED BY	purgabut							OF
DESIGNED BY	E. SOTO							
ENTERED BY	E. SOTO							
CHECKED BY	O. KIKUTA							
PROJ. ENGR.								
REGIONAL ADM.								

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 = R										
TRANSPORTABLE ATTENUATOR MIN HOST VEHICLE WEIGHT 15,000 LBS. THE MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION.										30 FEET MIN. TO 100 FOOT MAX.
PROTECTIVE VEHICLE MAY BE A WORK VEHICLE STRATEGICALLY LOCATED TO SHIELD THE WORK AREA										NO SPECIFIED DISTANCE REQUIRED

MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)										
LANE WIDTH (feet)	Posted Speed (mph)									
		25	30	35	40	45	50	55	60	65
10	-	-	-	-	-	-	550	-	-	-
11	-	-	-	-	-	-	605	660	-	-
12	-	-	-	-	-	-	660	720	780	840

SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	55 / 70 MPH	1500' ± (OR AS PER MUTCD)

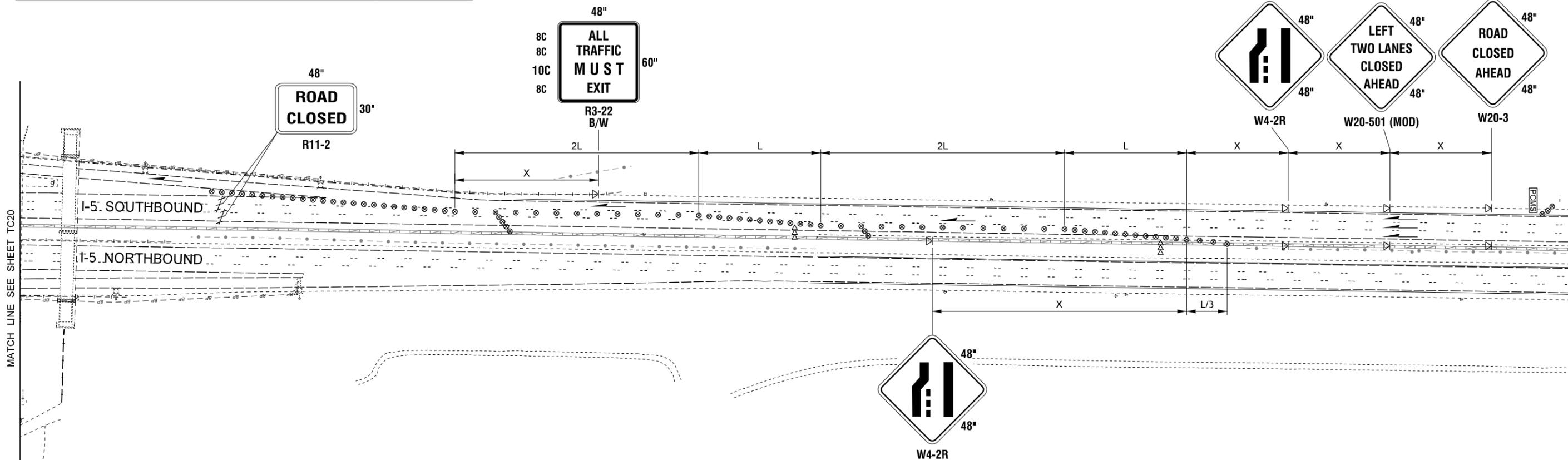
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, AT-GRADE INTERSECTIONS AND DRIVEWAYS.
(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80



PCMS	
PHASE 1	PHASE 2
I-5 CLOSED AT 116TH ST	MERGE RIGHT AHEAD
1.5 SEC	1.5 SEC

FIELD LOCATE 1 MILE (+-) IN ADVANCE OF DETOUR EXIT



LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE

NOTES:

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- SEE DETOUR PLAN ON SHEET DU5.
- MINIMUM SHOULDER TAPER RATE = L/3.

**SB I-5
SHORT TERM CLOSURE**
NOT TO SCALE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalp Trlbes\1554-1598-033-116thPh3199Svcs\CADD\IPS&ESheets\BL1598033_PS_TC.dgn			
TIME	1:16:42 PM			
DATE	6/14/2012			
PLOTTED BY	purgabut			
DESIGNED BY	E. SOTO			
ENTERED BY	E. SOTO			
CHECKED BY	O. KIKUTA			
PROJ. ENGR.				
REGIONAL ADM.	REVISION	DATE	BY	FED.AID PROJ.NO.
				10 WASH
				JOB NUMBER
				CONTRACT NO.
				LOCATION NO.

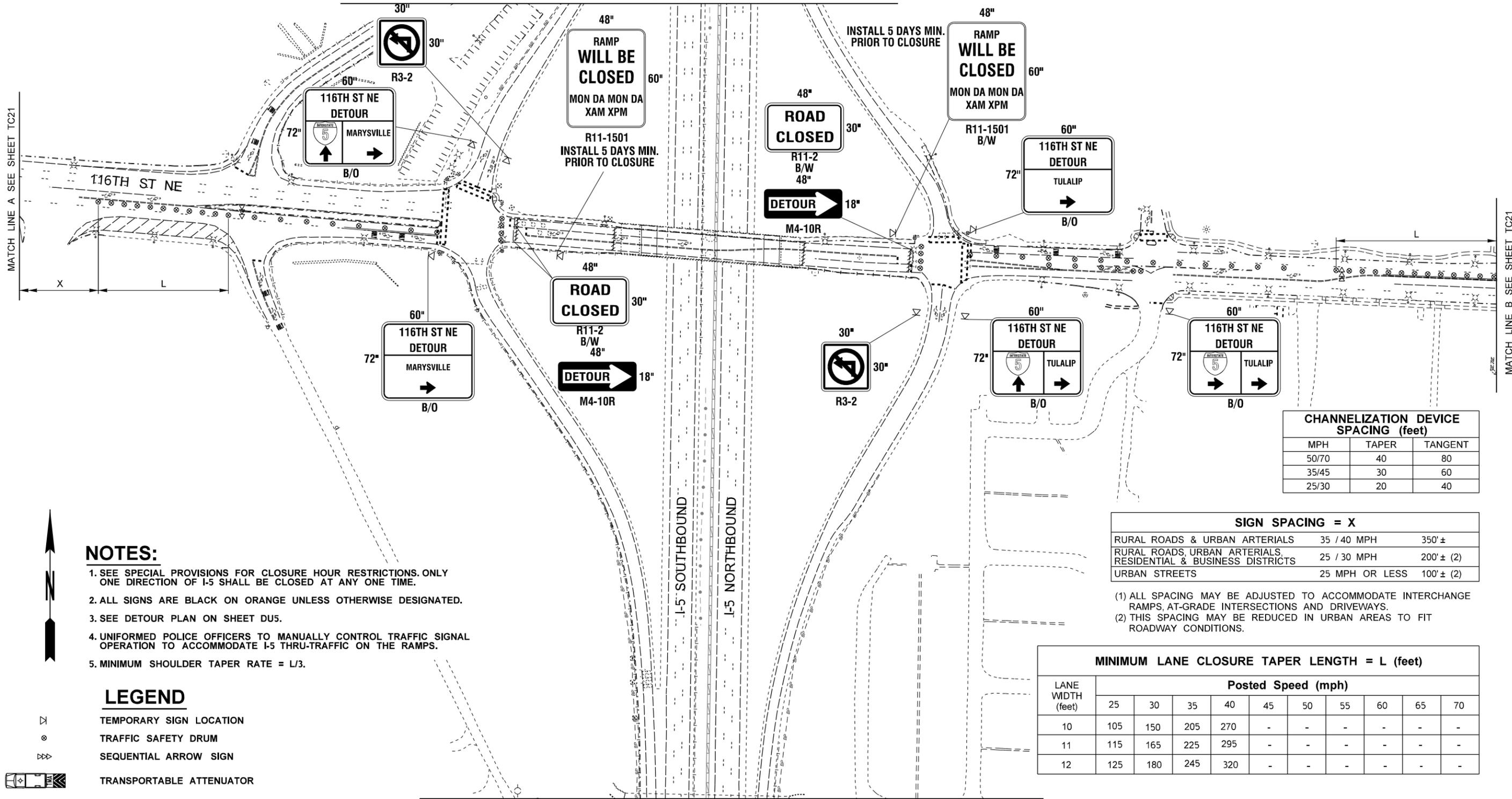
DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 19 PLAN REF NO TC19
TRAFFIC CONTROL PLAN	SHEET OF SHEETS

MATCH LINE SEE SHEET TC19



CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

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

(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.

LANE WIDTH (feet)	MINIMUM LANE CLOSURE TAPER LENGTH = L (feet)									
	Posted Speed (mph)									
	25	30	35	40	45	50	55	60	65	70
10	105	150	205	270	-	-	-	-	-	-
11	115	165	225	295	-	-	-	-	-	-
12	125	180	245	320	-	-	-	-	-	-

NOTES:

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS. ONLY ONE DIRECTION OF I-5 SHALL BE CLOSED AT ANY ONE TIME.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- SEE DETOUR PLAN ON SHEET DU5.
- UNIFORMED POLICE OFFICERS TO MANUALLY CONTROL TRAFFIC SIGNAL OPERATION TO ACCOMMODATE I-5 THRU-TRAFFIC ON THE RAMPS.
- MINIMUM SHOULDER TAPER RATE = L/3.

LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE

MATCH LINE SEE SHEET TC18

I-5 AND 116TH ST NE SHORT TERM CLOSURE

NOT TO SCALE

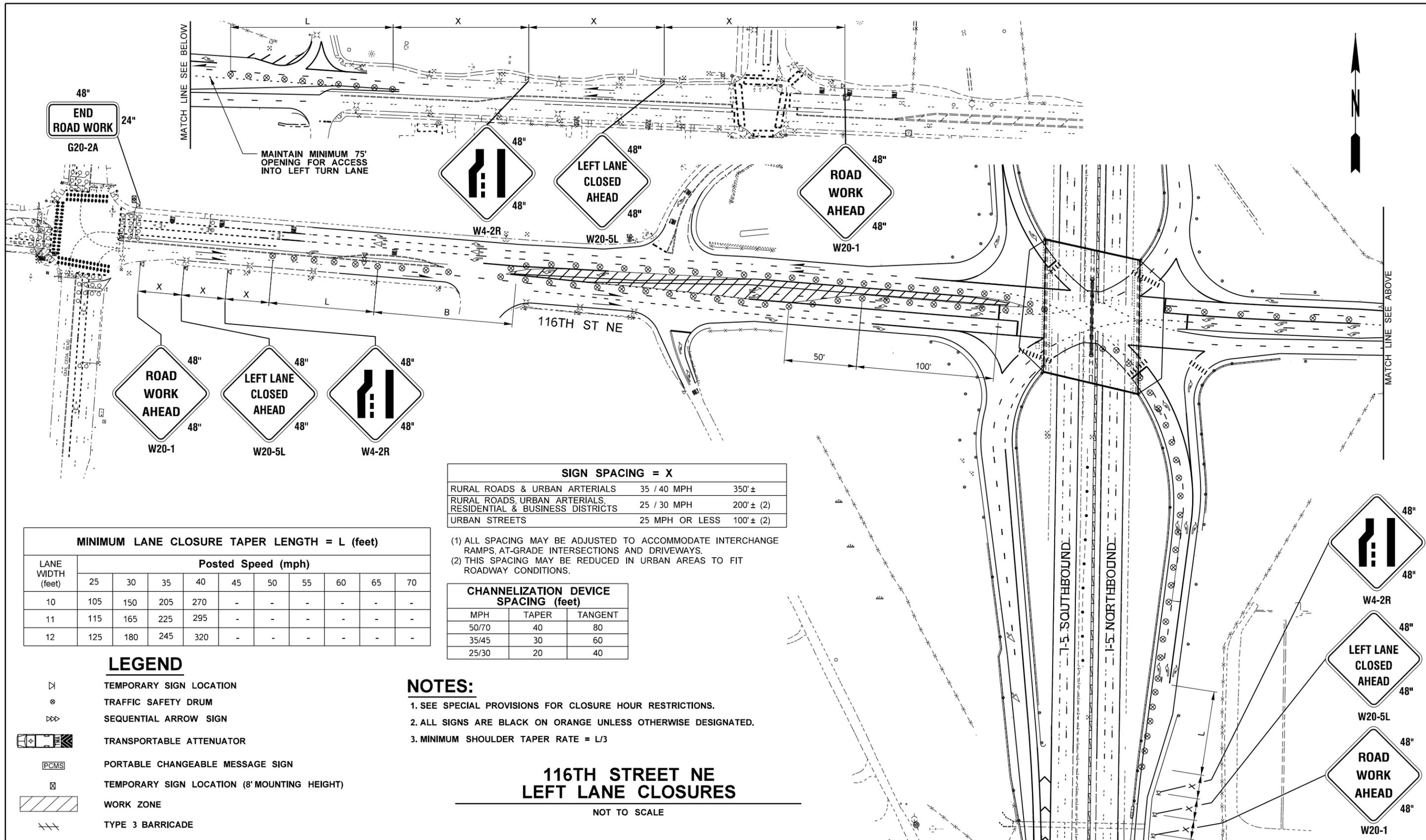
FILE NAME	U:\Bell\Projects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh\3199Svcs\CADD\PS&ESheets\1598033_PS_TC.dgn			REGION NO.	STATE	FED.AID PROJ.NO.
TIME	1:16:55 PM			10	WASH	
DATE	6/14/2012			JOB NUMBER		
PLOTTED BY	purgabut			CONTRACT NO.		LOCATION NO.
DESIGNED BY	E. SOTO					
ENTERED BY	E. SOTO					
CHECKED BY	O. KIKUTA					
PROJ. ENGR.						
REGIONAL ADM.	REVISION	DATE	BY			

DATE _____ P.E. STAMP BOX

DATE _____ P.E. STAMP BOX



I-5	Plot 20
116TH ST NE	PLAN REF NO
INTERCHANGE IMPROVEMENTS	TC20
TRAFFIC CONTROL PLAN	SHEET
	OF
	SHEETS



MINIMUM LANE CLOSURE 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	-	-	-	-	-	-
11	115	165	225	295	-	-	-	-	-	-
12	125	180	245	320	-	-	-	-	-	-

SIGN SPACING = X

RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

- (1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMP, 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	40	80
35/45	30	60
25/30	20	40

- LEGEND**
- TEMPORARY SIGN LOCATION
 - TRAFFIC SAFETY DRUM
 - SEQUENTIAL ARROW SIGN
 - TRANSPORTABLE ATTENUATOR
 - PORTABLE CHANGEABLE MESSAGE SIGN
 - TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
 - WORK ZONE
 - TYPE 3 BARRICADE

- NOTES:**
- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
 - ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
 - MINIMUM SHOULDER TAPER RATE = L/3

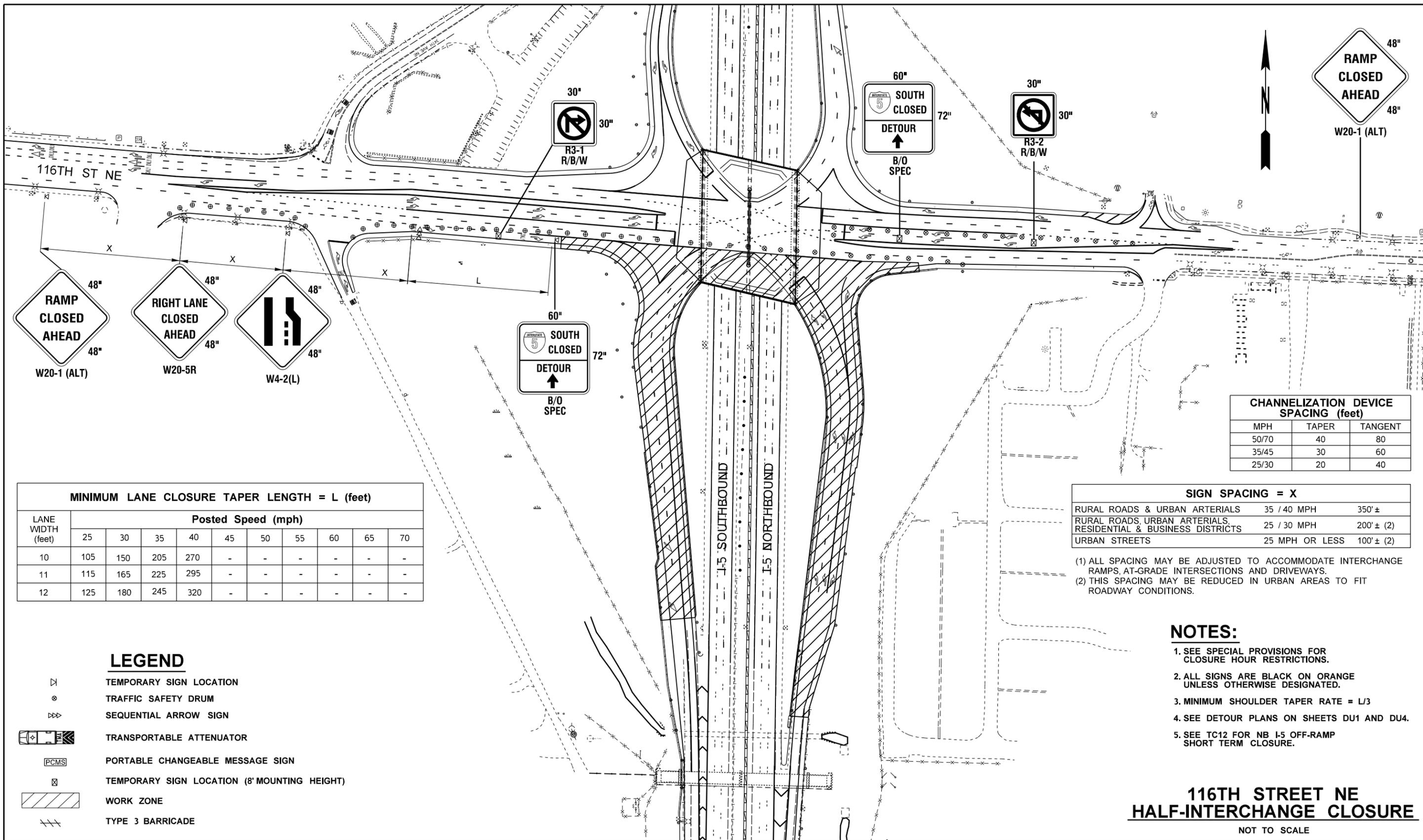
**116TH STREET NE
LEFT LANE CLOSURES**

NOT TO SCALE

FILE NAME: U:\Bell\Projects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3\99Svcs\CADDIPS&ESheets\1598033_PS_TC5.dgn		REGION NO. 10		STATE WASH		FED.AID PROJ.NO.		Plot 1	
TIME: 1:18:02 PM		JOB NUMBER		CONTRACT NO.		LOCATION NO.		PLAN REF NO. TC23	
DATE: 6/14/2012		DATE		DATE		DATE		SHEET	
PLOTTED BY: purgabut		DATE		DATE		DATE		OF	
DESIGNED BY: E. SOTO		BY		BY		BY		SHEETS	
ENTERED BY: C.D. CLARK		BY		BY		BY		SHEETS	
CHECKED BY: O. KIKUTA		BY		BY		BY		SHEETS	
PROJ. ENGR.		BY		BY		BY		SHEETS	
REGIONAL ADM.		BY		BY		BY		SHEETS	

**I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS**

TRAFFIC CONTROL PLAN



CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

MINIMUM LANE CLOSURE 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	-	-	-	-	-	-
11	115	165	225	295	-	-	-	-	-	-
12	125	180	245	320	-	-	-	-	-	-

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

- (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.

NOTES:

- SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
- MINIMUM SHOULDER TAPER RATE = L/3
- SEE DETOUR PLANS ON SHEETS DU1 AND DU4.
- SEE TC12 FOR NB I-5 OFF-RAMP SHORT TERM CLOSURE.

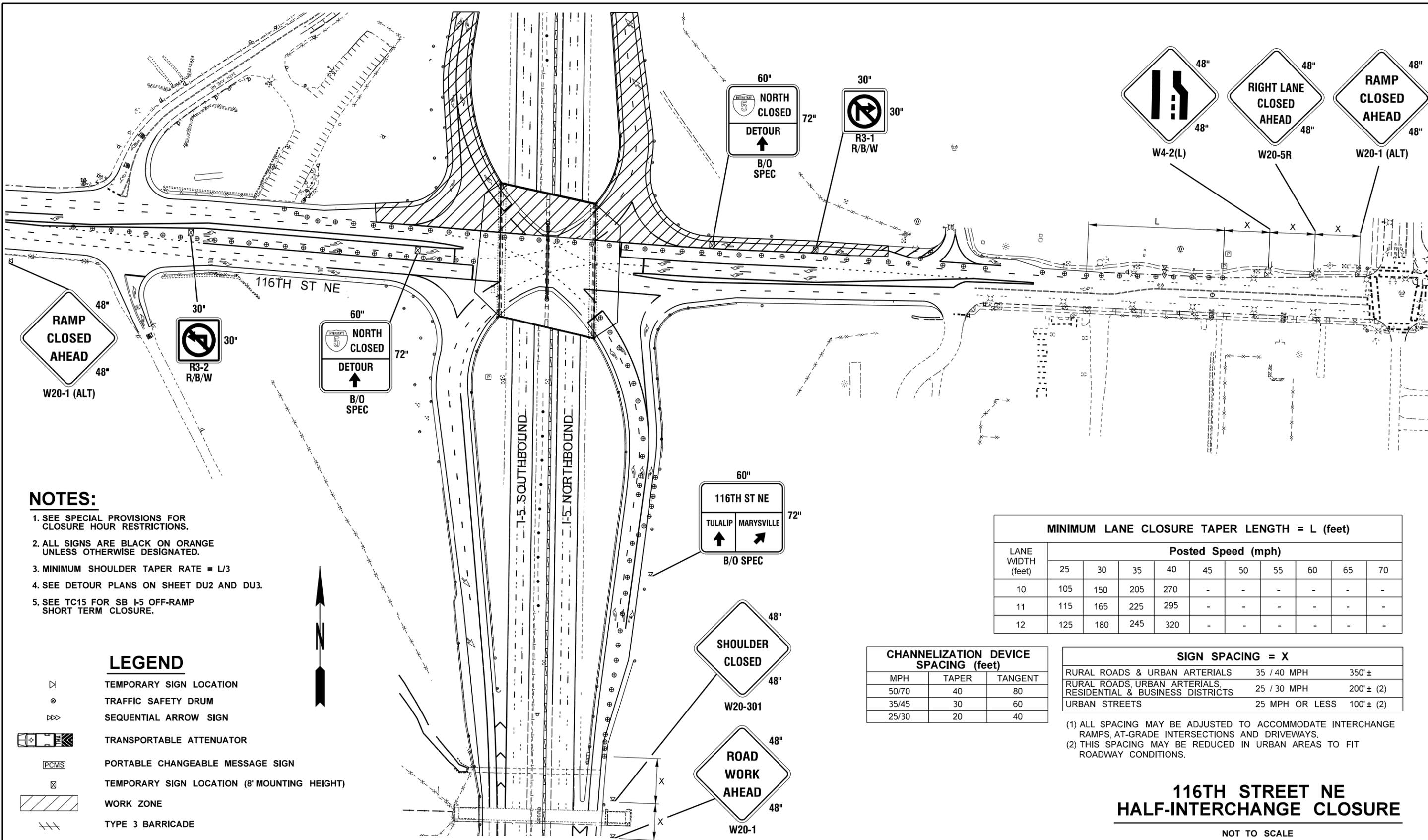
**116TH STREET NE
 HALF-INTERCHANGE CLOSURE**

NOT TO SCALE

FILE NAME	U:\Bell\Projects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh3199Svcs\CADDIPS&ESheets\BL1598033_PS_TC5.dgn									
TIME	1:18:26 PM									
DATE	6/14/2012									
PLOTTED BY	purgabut									
DESIGNED BY	E. SOTO									
ENTERED BY	C.D. CLARK									
CHECKED BY	O. KIKUTA									
PROJ. ENGR.										
REGIONAL ADM.										
	REVISION	DATE	BY	REGION NO.	STATE	FED.AID PROJ.NO.	CONTRACT NO.	LOCATION NO.	DATE	DATE
				10	WASH					



I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 3 PLAN REF NO TC25
TRAFFIC CONTROL PLAN		SHEET OF SHEETS



NOTES:

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
3. MINIMUM SHOULDER TAPER RATE = L/3
4. SEE DETOUR PLANS ON SHEET DU2 AND DU3.
5. SEE TC15 FOR SB I-5 OFF-RAMP SHORT TERM CLOSURE.

LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE

MINIMUM LANE CLOSURE 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	-	-	-	-	-	-
11	115	165	225	295	-	-	-	-	-	-
12	125	180	245	320	-	-	-	-	-	-

CHANNELIZATION DEVICE SPACING (feet)		
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

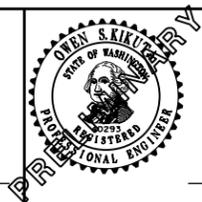
SIGN SPACING = X		
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

- (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.

**116TH STREET NE
HALF-INTERCHANGE CLOSURE**

NOT TO SCALE

FILE NAME: U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3199Svcs\CADDIPS&ESheets\BL1598033_PS_TC5.dgn		REGION NO. STATE		FED.AID PROJ.NO.		DATE		PLOT 4	
TIME: 1:18:39 PM		10 WASH						PLAN REF NO	
DATE: 6/14/2012		JOB NUMBER						TC26	
PLOTTED BY: purgabut		CONTRACT NO.		LOCATION NO.				SHEET	
DESIGNED BY: E. SOTO								OF	
ENTERED BY: C.D. CLARK								SHEETS	
CHECKED BY: O. KIKUTA									
PROJ. ENGR.									
REGIONAL ADM.		REVISION		DATE		BY			



I-5
116TH ST NE
INTERCHANGE IMPROVEMENTS

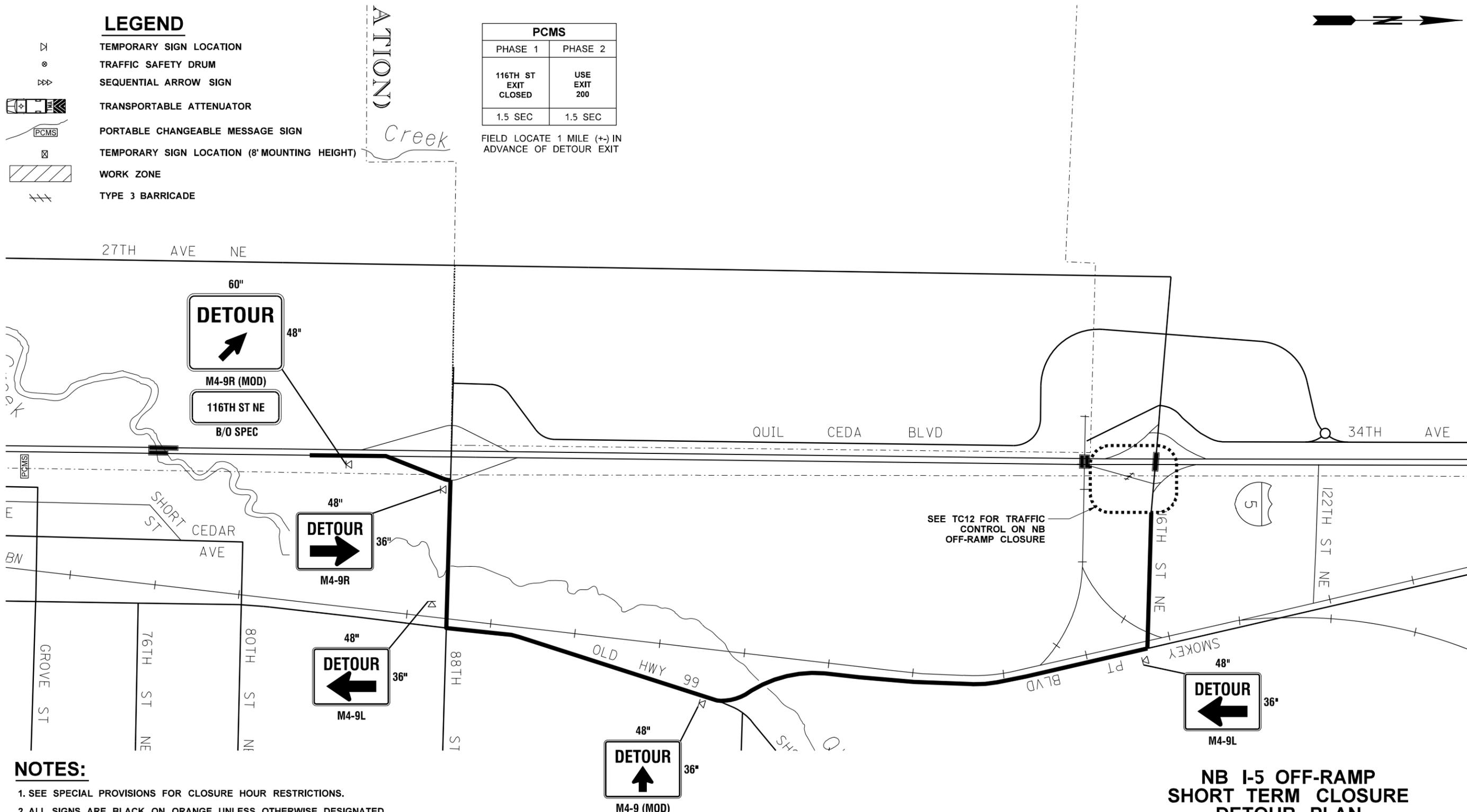
TRAFFIC CONTROL PLAN

LEGEND

-  TEMPORARY SIGN LOCATION
-  TRAFFIC SAFETY DRUM
-  SEQUENTIAL ARROW SIGN
-  TRANSPORTABLE ATTENUATOR
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
-  WORK ZONE
-  TYPE 3 BARRICADE

PCMS	
PHASE 1	PHASE 2
116TH ST EXIT CLOSED	USE EXIT 200
1.5 SEC	1.5 SEC

FIELD LOCATE 1 MILE (+-) IN ADVANCE OF DETOUR EXIT



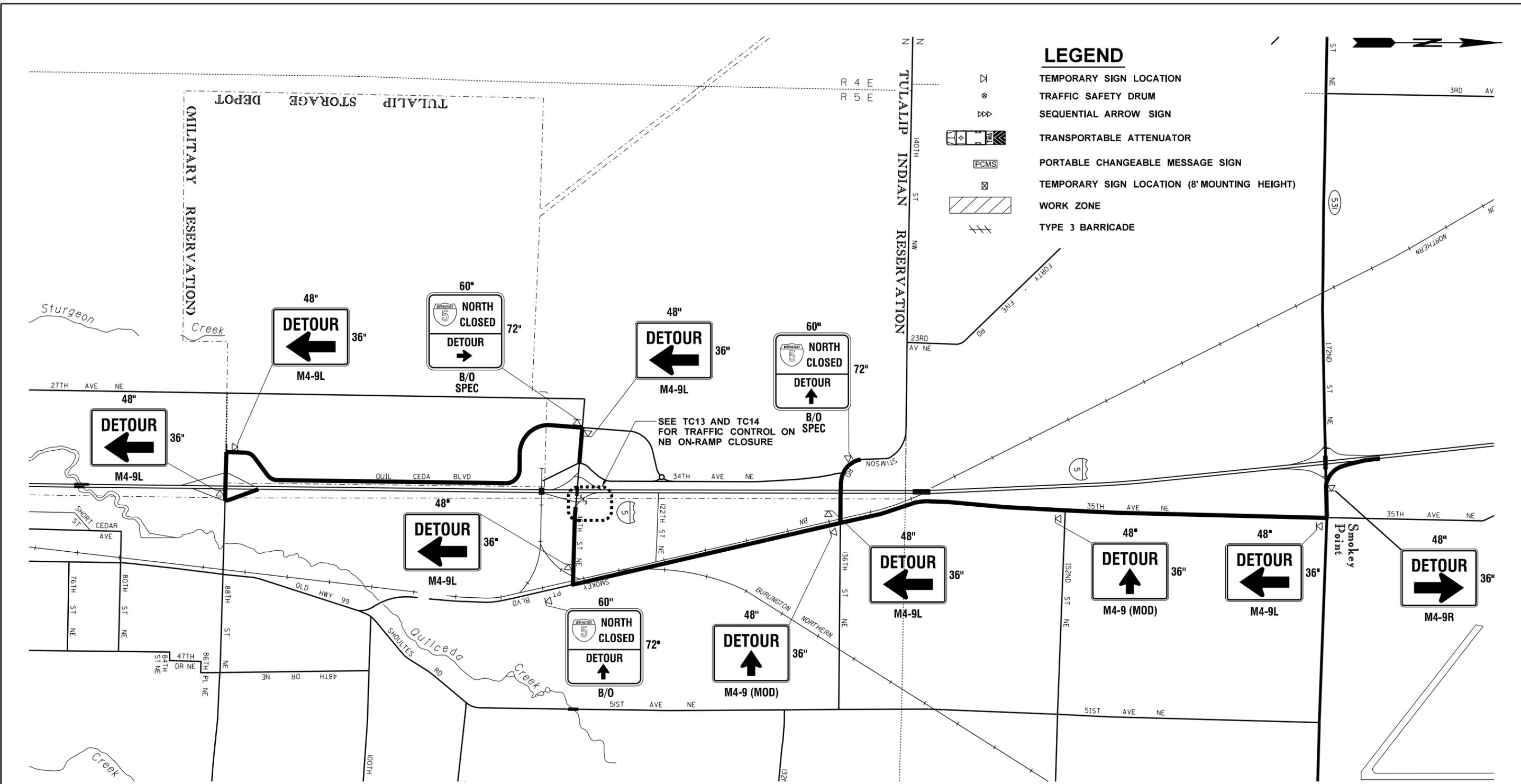
NOTES:

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

**NB I-5 OFF-RAMP
SHORT TERM CLOSURE
DETOUR PLAN**

NOT TO SCALE

FILE NAME U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh\3199Svcs\CADDIPS&ESheets\BL1598033_PS_DU.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS DETOUR PLAN	Plot 1
TIME 1:06:37 PM	DATE 6/14/2012	10	WASH						PLAN REF NO DU1
PLOTTED BY purgabut	DESIGNED BY E. SOTO	JOB NUMBER		LOCATION NO.				SHEET	
ENTERED BY E. SOTO	CHECKED BY O. KIKUTA	CONTRACT NO.						OF	
PROJ. ENGR.	REGIONAL ADM.	REVISION	DATE	BY		P.E. STAMP BOX	DATE	P.E. STAMP BOX	SHEETS



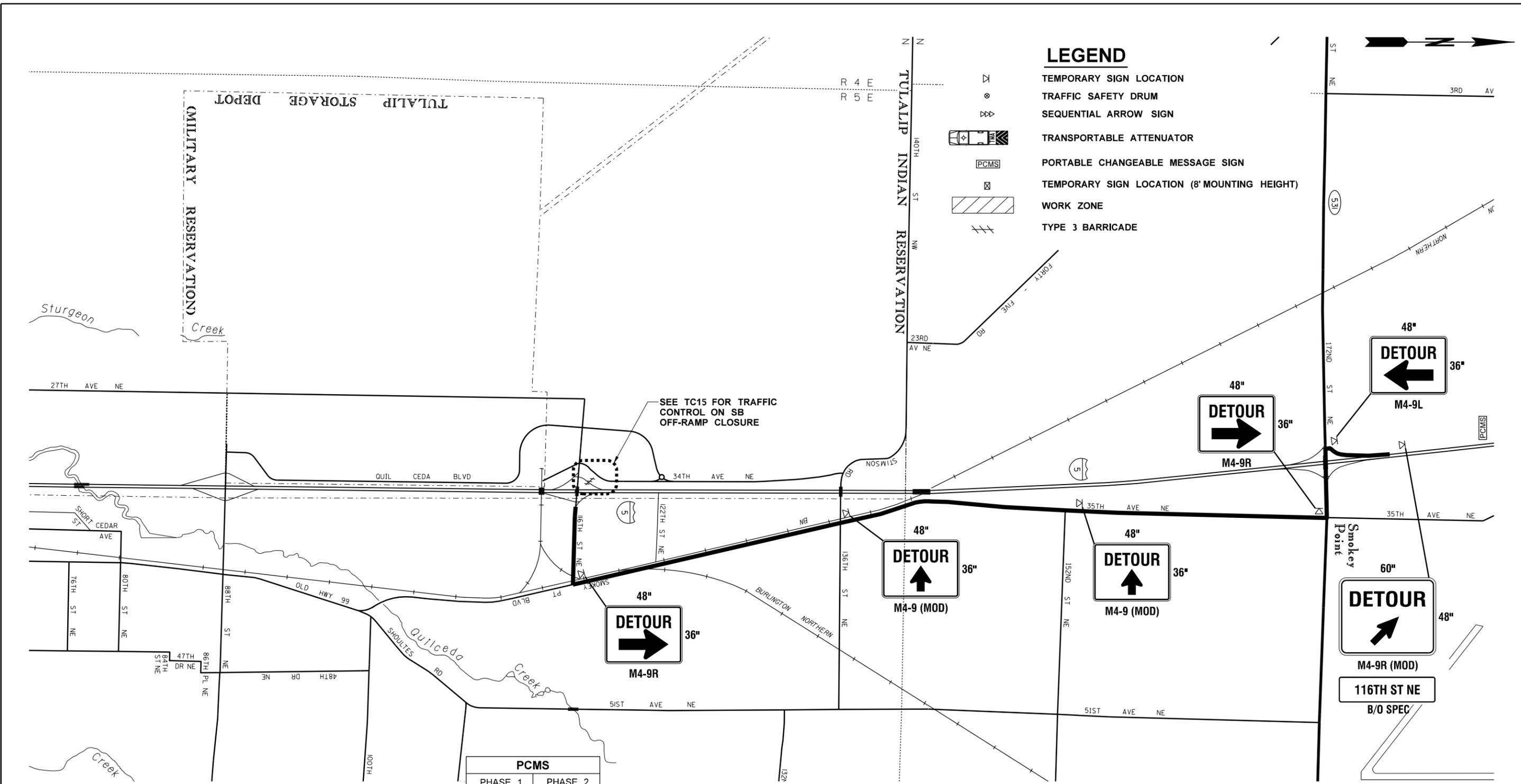
NOTES:

- 1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- 2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

**NB I-5 ON-RAMP
SHORT TERM CLOSURE
DETOUR PLAN**

NOT TO SCALE

FILE NAME U:\Bell\Projects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh\3199Svcs\CADD\IPS&ESheets\BL1598033_PS_DU.dgn				REGION NO. STATE 10 WASH		FED.AID PROJ.NO.						I-5 116TH ST NE INTERCHANGE IMPROVEMENTS		Plot 2 PLAN REF NO DU2	
TIME 1:06:51 PM												SHEET OF SHEETS			
DATE 6/14/2012															
PLOTTED BY purgabut															
DESIGNED BY E. SOTO															
ENTERED BY E. SOTO															
CHECKED BY O. KIKUTA															
PROJ. ENGR.															
REGIONAL ADM.		REVISION		DATE		BY		DATE		DATE					



NOTES:

- 1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
- 2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

PCMS	
PHASE 1	PHASE 2
116TH ST EXIT CLOSED	USE EXIT 206
1.5 SEC	1.5 SEC

FIELD LOCATE 1 MILE (+-) IN ADVANCE OF DETOUR EXIT

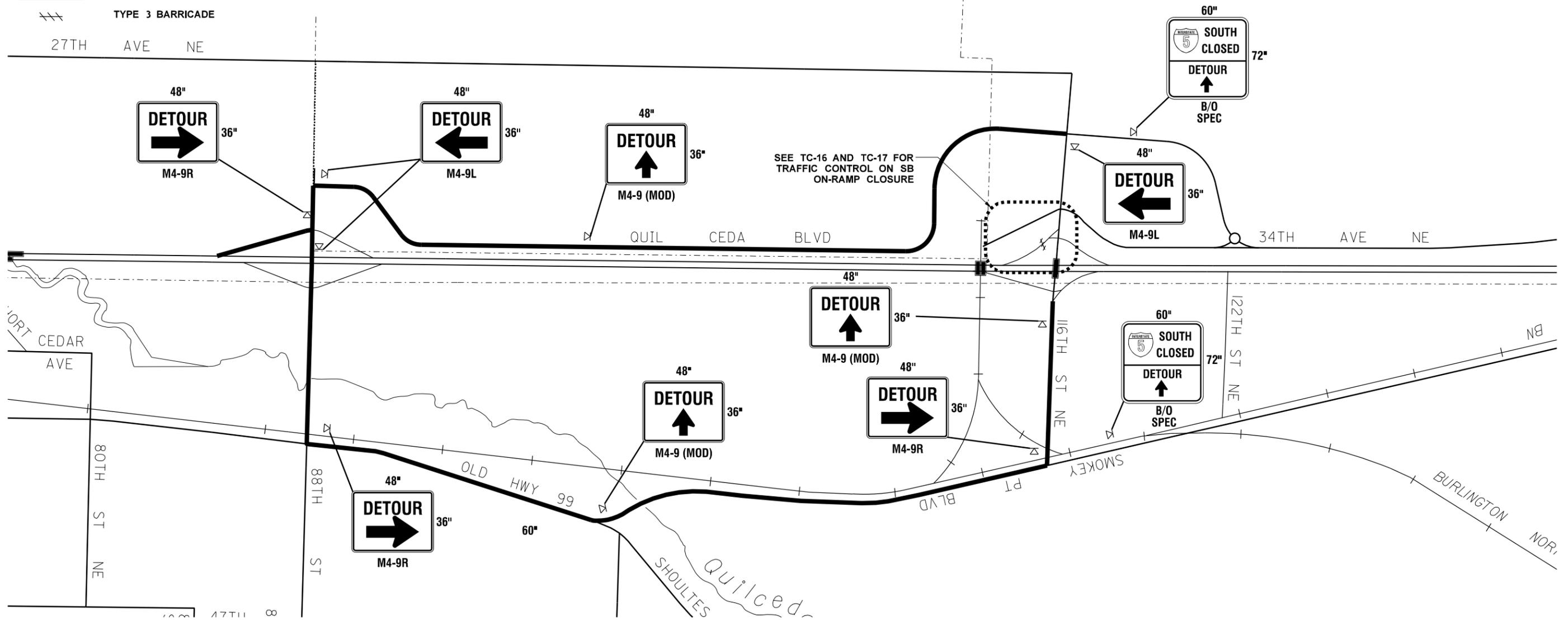
**SB I-5 OFF-RAMP
SHORT TERM CLOSURE
DETOUR PLAN**

NOT TO SCALE

FILE NAME U:\Bell\Projects\Clients\1598-Tulalp Tribes\1554-1598-033-116thPh\199Svcs\CADDIPS&ESheets\1598033_PS_DU.dgn		REGION NO. STATE		FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS DETOUR PLAN	Plot 3
TIME 1:07:01 PM	DATE 6/14/2012	10	WASH						PLAN REF NO DU3
PLOTTED BY purgabut	DESIGNED BY E. SOTO	JOB NUMBER		LOCATION NO.				SHEET	
ENTERED BY E. SOTO	CHECKED BY O. KIKUTA	CONTRACT NO.						OF	
PROJ. ENGR.	REGIONAL ADM.	REVISION	DATE	BY		P.E. STAMP BOX	DATE	SHEETS	

LEGEND

-  TEMPORARY SIGN LOCATION
-  TRAFFIC SAFETY DRUM
-  SEQUENTIAL ARROW SIGN
-  TRANSPORTABLE ATTENUATOR
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
-  WORK ZONE
-  TYPE 3 BARRICADE



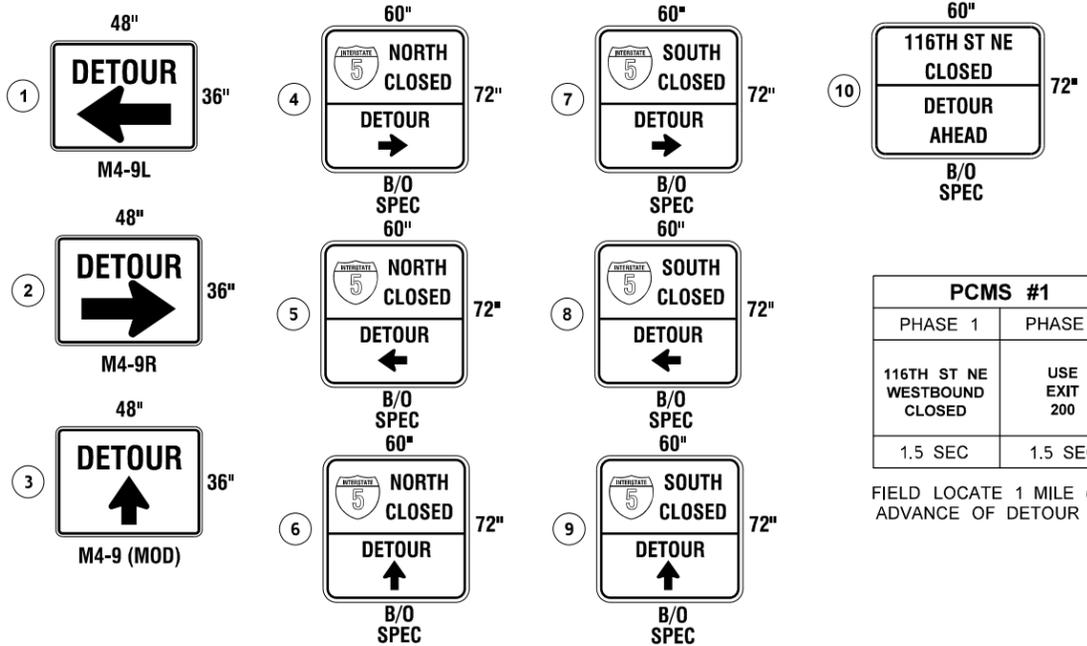
NOTES:

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

SB I-5 ON-RAMP SHORT TERM CLOSURE DETOUR PLAN

NOT TO SCALE

FILE NAME U:\Bell\Projects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\199Svcs\CADDIPS&ESheets\BL1598033_PS_DU.dgn				FED.AID PROJ.NO.				I-5 116TH ST NE INTERCHANGE IMPROVEMENTS DETOUR PLAN	Plot 4
TIME 1:07:11 PM	DATE 6/14/2012	REGION NO. 10	STATE WASH						PLAN REF NO DU4
PLOTTED BY purgabut	DESIGNED BY E. SOTO	ENTERED BY E. SOTO	CHECKED BY O. KIKUTA	PROJ. ENGR.	REGIONAL ADM.	REVISION	DATE	BY	SHEET OF SHEETS

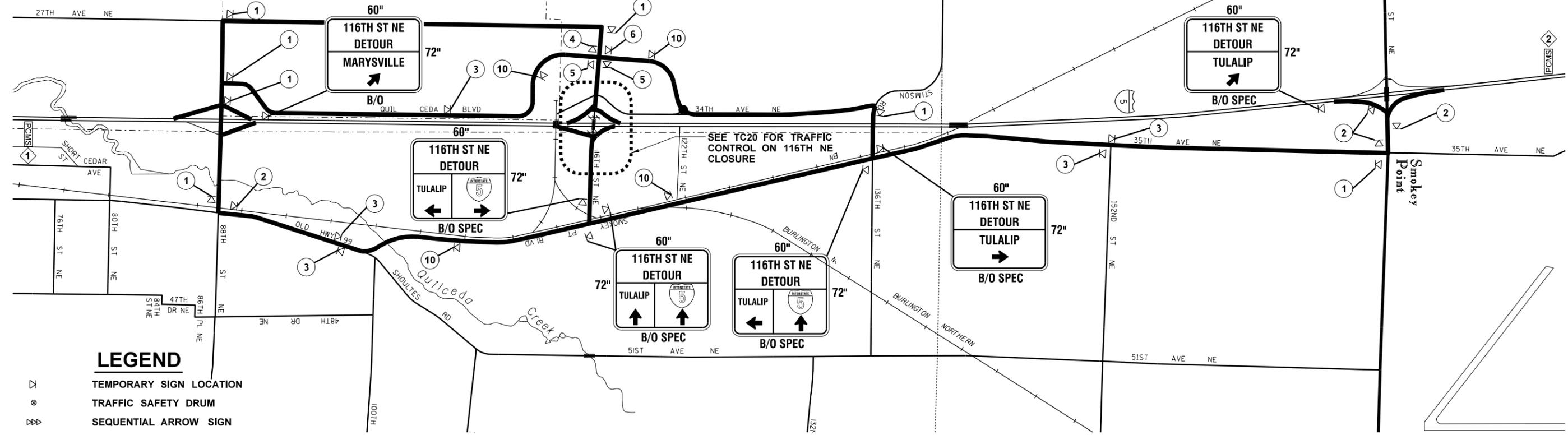


PCMS #1	
PHASE 1	PHASE 2
116TH ST NE WESTBOUND CLOSED	USE EXIT 200
1.5 SEC	1.5 SEC

PCMS #2	
PHASE 1	PHASE 2
116TH ST NE EASTBOUND CLOSED	USE EXIT 206
1.5 SEC	1.5 SEC

FIELD LOCATE 1 MILE (+-) IN ADVANCE OF DETOUR EXIT

FIELD LOCATE 1 MILE (+-) IN ADVANCE OF DETOUR EXIT



LEGEND

- TEMPORARY SIGN LOCATION
- TRAFFIC SAFETY DRUM
- SEQUENTIAL ARROW SIGN
- TRANSPORTABLE ATTENUATOR
- PORTABLE CHANGEABLE MESSAGE SIGN
- TEMPORARY SIGN LOCATION (8' MOUNTING HEIGHT)
- WORK ZONE
- TYPE 3 BARRICADE

NOTES:

1. SEE SPECIAL PROVISIONS FOR CLOSURE HOUR RESTRICTIONS.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.

**I-5 AND 116TH ST NE
SHORT TERM CLOSURE
DETOUR PLAN**

NOT TO SCALE

FILE NAME	U:\BellProjects\Clients\1598-Tulalip Tribes\1554-1598-033-116thPh3\99Svc\CADDIPS&ESheets\BL1598033_PS_DU.dgn			REGION NO.	STATE	FED.AID PROJ.NO.			I-5 116TH ST NE INTERCHANGE IMPROVEMENTS	Plot 5
TIME	1:07:29 PM			10	WASH					PLAN REF NO DU5
DATE	6/14/2012			JOB NUMBER					SHEET	
PLOTTED BY	purgabut			CONTRACT NO.					OF	
DESIGNED BY	E. SOTO			LOCATION NO.					SHEETS	
ENTERED BY	E. SOTO									
CHECKED BY	O. KIKUTA									
PROJ. ENGR.										
REGIONAL ADM.	REVISION	DATE	BY							

