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SEE SHEET 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWN OF BRADFORD
COUNTY OF ORANGE

VT ROUTE 25 (MAJOR COLLECTOR & MINOR ARTERIAL)
VT ROUTE 25B (MAJOR COLLECTOR)

RECORD PLANS

CONTRACTOR: PIKE INDUSTRIES, INC. - BERLIN, VT

RESIDENT ENGINEER: JAY STRONG

CONSTRUCTION BEGAN: APRIL 24, 2013

CONSTRUCTION COMPLETE: OCTOBER 4, 2013

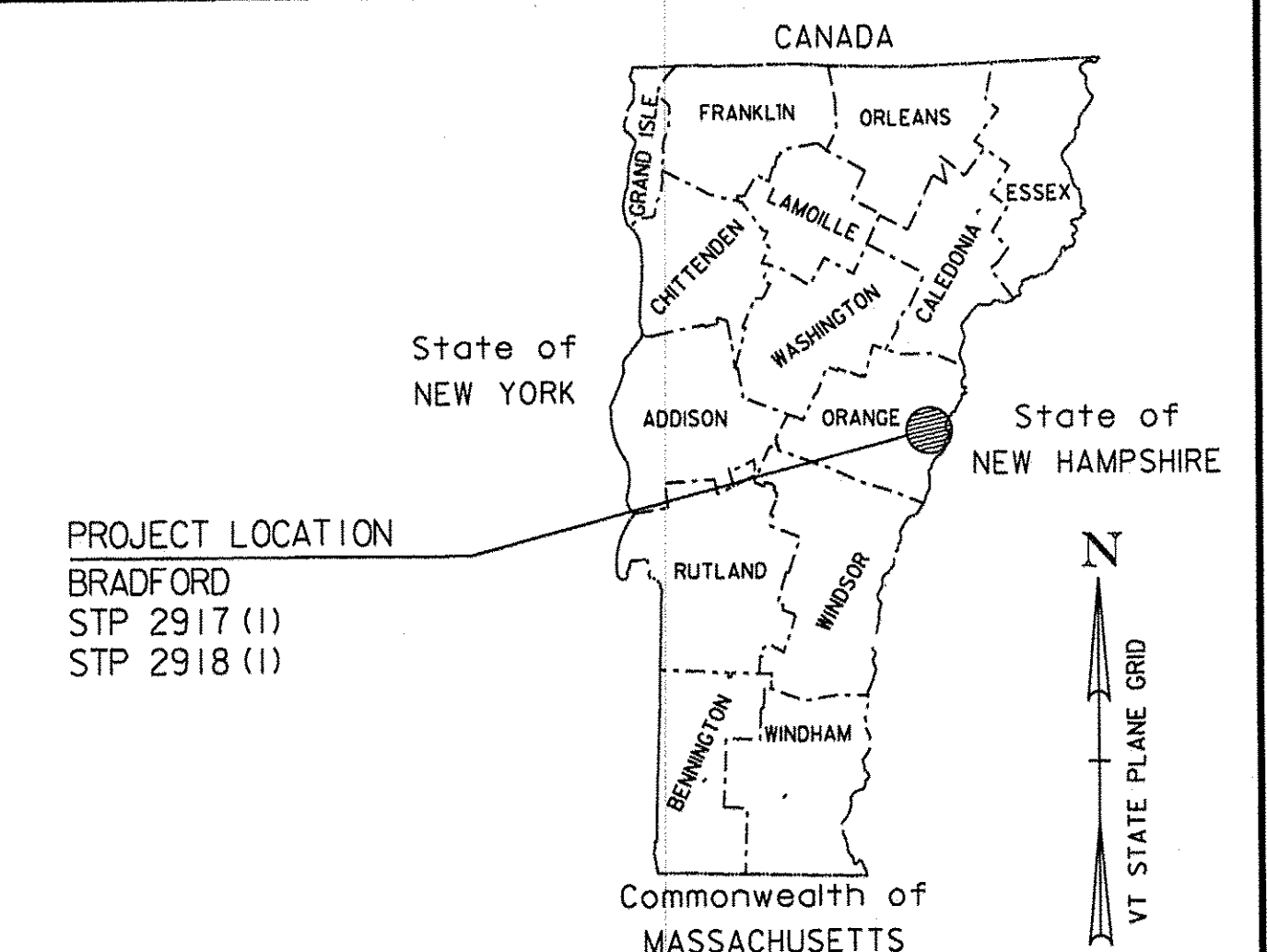
RECORD PLANS BY: JAY STRONG & CHIP PIERCE

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET
OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.

BY *Jay Strong* RESIDENT ENGINEER

DATE 7/3/2014

NOTE: Any further information concerning final quantities, amounts or other details
relative to this project may be found at Central Files in the electronic archives.



BRADFORD
STP 2917(1)
VT ROUTE 25
SEE SHEET 14 OF 105

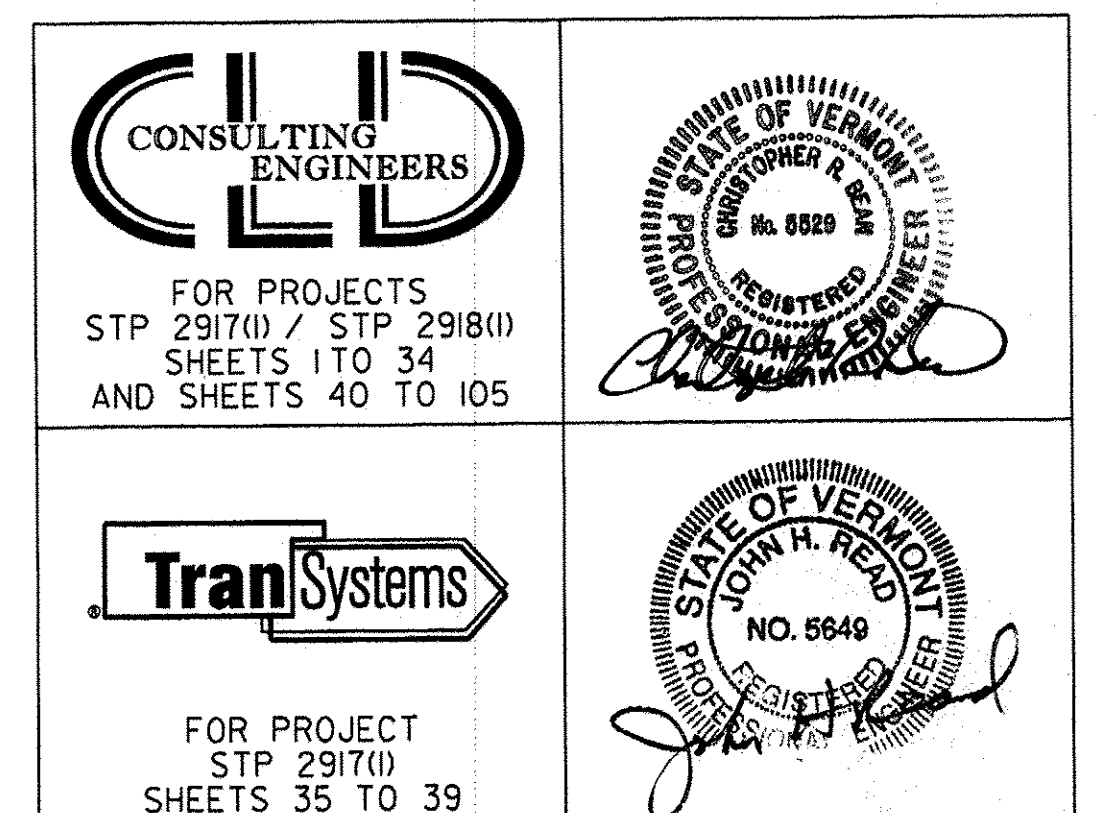
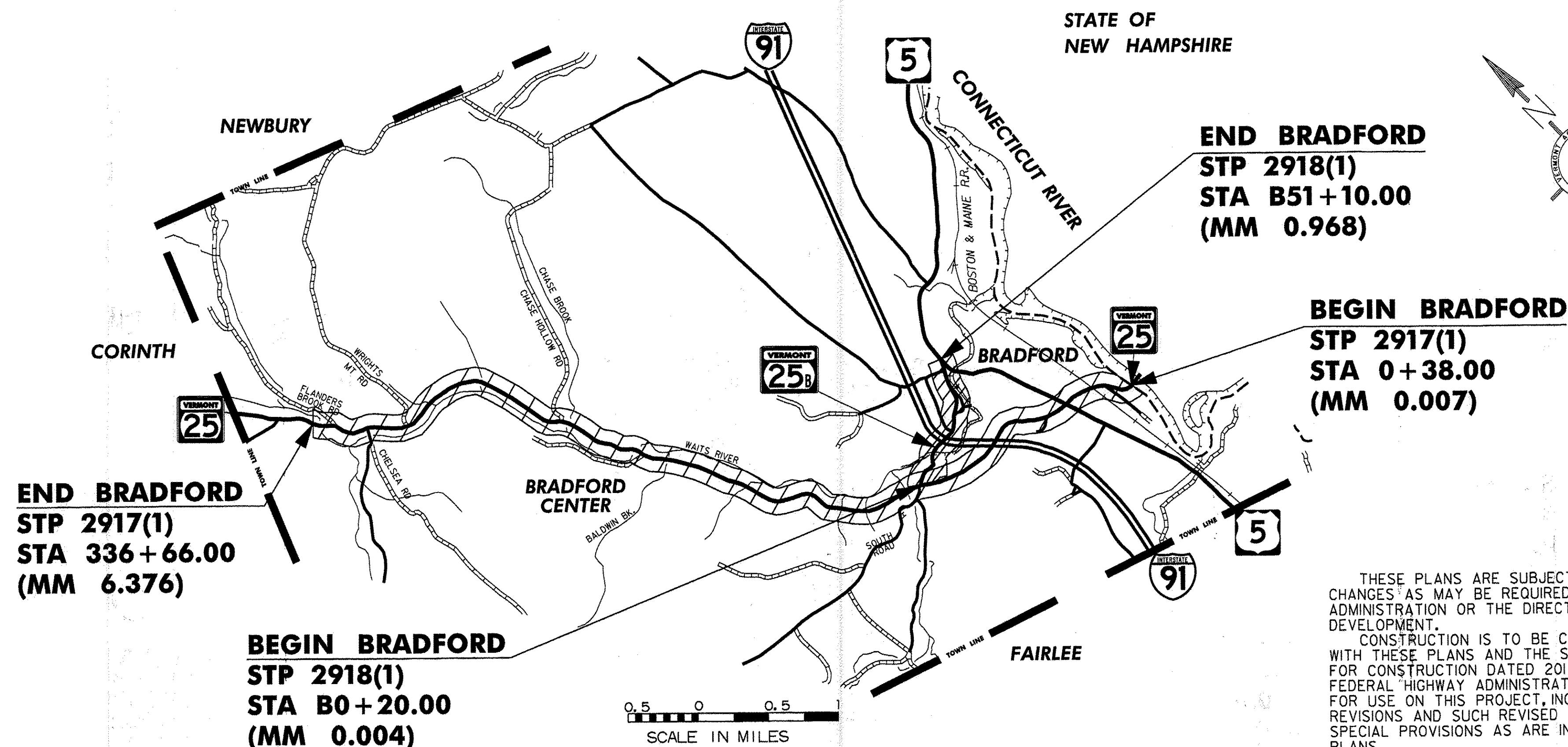
BRADFORD
STP 2918(1)
VT ROUTE 25B
SEE SHEET 81 OF 105

QUALITY ASSURANCE PROGRAM: LEVEL 3

CLD CONSULTING ENGINEERS
540 Commercial Street, Manchester, NH 03101
(603) 666-8223 • Fax: (603) 666-8802
clde@cldeengineers.com • www.cldeengineers.com
Maine • New Hampshire • Vermont

CONVENTIONAL SYMBOLS

COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	



UNLESS OTHERWISE NOTED, ALL DRAWING AND DETAILS
ON THE PLANS ARE DRAWN "NOT TO SCALE".

RIGHT-OF-WAY LIMITS, IF APPLICABLE, ARE PROVIDED
SOLELY FOR THE CONVENIENCE OF THE STATE AND ITS
CONTRACTOR DURING THE COURSE OF THIS PAVING
PROJECT. ANY REFERENCES TO OFFSETS ON THESE
PLANS ARE APPROXIMATE AND SHOULD NOT BE RELIED
UPON FOR ANY OTHER PURPOSES.

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY
ADMINISTRATION OR THE DIRECTOR OF PROGRAM
DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011.
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED *Richard J. Fowles* DATE 8-20-13
PROJECT MANAGER: MICHAEL FOWLER
PROJECT NAME: BRADFORD
PROJECT NUMBER: STP 2917(1)/STP 2918(1)
SHEET 1 OF 105 SHEETS

COMPOSITE INDEX OF SHEETS

INDEX OF STANDARD PLANS

STD	DATE	DESCRIPTION
C-2B	10/14/2005	PORTLAND CEMENT CONCRETE SIDEWALK, DRIVE ENTRANCES WITH SIDEWALK AND GREEN STRIP
C-3A	3/10/2008	SIDEWALK RAMPS
D-3	6/1/1994	TREATED GUTTERS
D-15	6/1/1994	PRECAST REINF. CONC. CATCH BASIN W/CAST IRON GRATE, PRECAST REINF. CONC. MANHOLE W/ CAST IRON COVER, CAST IRON GRATE WITH FRAME, TYPE D - CAST IRON GRATE WITH FRAME, TYPE E
D-16	6/1/1994	PRECAST CURB DI, GRATE, RCP END SECTION, ETC. - CAST IRON GRATE,TYPE B - CAST IRON GRATE,TYPE C - UNDERDRAIN RISER - REINFORCED CONCRETE PIPE END SECTION - ENERGY DISSIPATOR FOR CULVERT
D-30	8/13/2007	UNDERDRAIN CONSTRUCTION DETAILS
E-100	1/2/2004	CONSTRUCTION APPROACH SIGNS
E-100A	1/2/2004	SIDE ROAD CONSTRUCTION APPROACH SIGNS
E-101	5/30/2003	CONSTRUCTION SIGN DETAILS
E-102	6/30/2003	CONSTRUCTION SIGN DETAILS
E-102A	5/1/2004	CONSTRUCTION SIGN DETAILS
E-108	6/8/2009	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS
E-108A	6/8/2009	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS FOR PAVING
E-111	3/11/1997	MINOR MAINTENANCE OPERATION
E-121	8/8/1995	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD
E-123	3/16/2004	GUIDE SIGN PLACEMENT - MISCELLANEOUS DETAILS
E-127	8/8/1995	ROUTE MARKINGS AT RURAL INTERSECTIONS
E-132	8/18/1995	GENERAL MOTORIST SERVICE SIGN DETAILS
E-136B	8/8/1995	STATE ROUTE MARKER SIGN DETAILS
E-138	5/30/2003	MILEMARKER DETAILS - STATE AND TOWN HIGHWAYS
E-141	9/20/1995	REGULATORY SIGN DETAILS
E-145A	12/23/1994	REGULATORY SIGN DETAILS - LANE USE CONTROL SIGNS (TWO AND FOUR LANE APPROACHES)
E-154	5/1/2004	WARNING SIGN DETAILS
E-163	5/20/1999	TUBULAR STEEL SIGN POST
E-164	6/8/2009	SQUARE STEEL SIGN POST
E-190	6/30/2003	RAILROAD CROSSING SIGNS AND PAVEMENT MARKINGS
E-191	2/1/1999	PAVEMENT MARKING DETAILS
E-192	10/12/2000	PAVEMENT MARKING DETAILS
E-193	8/18/1995	PAVEMENT MARKING DETAILS
G-1	1/3/2000	STEEL BEAM GUARDRAIL WITH STEEL POSTS, STEEL BEAM GUARDRAIL WITH WOOD POSTS
G-1d	1/3/2000	STEEL BEAM GUARDRAIL APPROACH AND TRAILING END TERMINAL, ANCHOR FOR STEEL BEAM RAIL, STEEL BEAM MEDIAN BARRIER
G-19	11/15/2002	GENERIC PLANS FOR GUARDRAIL END TERMINALS

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10	COMPOSITE HANDWORK DETAIL SHEET
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12	COMPOSITE TEMPORARY TRAFFIC CONTROL NOTES
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	<u>BRADFORD STP 2917(1)</u>
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	BRIDGE JOINT ASPHALTIC PLUG (STRUCTURES DETAIL SD-516.10)

COMPOSITE INDEX OF SHEETS

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(1) & STP 2918(1)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:49
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_02	SHEET 2 OF 105

STATE OF VERMONT
AGENCY OF TRANSPORTATION

COMPOSITE QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES											TOTALS		DESCRIPTIONS			
ROADWAY (MAJOR COLLECTOR)	TRAINING	STP 2917(1)		ROADWAY (MINOR ARTERIAL)	BRIDGE (MINOR ARTERIAL)		STP 2918(1)				GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND
		RAILROAD- BID ITEMS	FULL C.E. ITEMS				ROADWAY (NO FED/ STATE PART)	BRIDGE	FULL C.E. ITEMS							
							2				2		EACH	THINNING AND TRIMMING FOR SIGNS	201.31	-
1000				285			5				1290		CY	COMMON EXCAVATION	203.15	22.7
300				1300			200				1800		CY	EARTH BORROW	203.30	-
				740			145				885		LF	SHOULDER BERM REMOVAL	203.40	7
0.5				0.5			1				2		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
36200				18000			18300				72500		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	243
2500				500							3000		LF	MILLED RUMBLE STRIPS	213.10	20
630				180							810		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	12
720				3060			570				4350		TON	SUBBASE, RAP	301.40	18.8
450				2100			360				2910		TON	AGGREGATE SHOULDERS, RAP	402.13	18
1				1			1				3		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
4750				11600			2110				18460		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	100
1				1			1				3		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-
1				1			1				3		LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-
1				1			1				3		LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	-
1				1							2		LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	-
					200			50			250		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	3
					115						115		LF	REMOVAL OF EXISTING RAILING	525.10	2.5
					50						50		LF	BRIDGE RAILING REPAIR, TYPE I	525.50	-
					75						75		LF	BRIDGE RAILING REPAIR, TYPE III	525.60	12.5
					35			10			45		CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST.
8				3			10				21		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	EST.
2				1			3				6		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	EST.
								14			14		EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42	-
25				105			20				150		HR	POWER GRADER RENTAL	608.15	EST.
90				415			70				575		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.
25				105			20				150		HR	POWER BROOM RENTAL, TYPE I	608.30	EST.
180				830			140				1150		HR	TRUCK RENTAL	608.37	EST.
90				415			70				575		HR	LOADER RENTAL, TYPE I	608.40	EST.
80							90				170		CY	STONE FILL, TYPE I	613.10	2
				7							7		CY	STONE FILL, TYPE II	613.11	1
				645							645		LF	TREATED TIMBER CURB	616.35	4
15											15		LF	REMOVING AND RESETTING CURB	616.40	3
3060				440							3500		LF	REMOVAL OF EXISTING CURB	616.41	8
							35				35		TON	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47	1.4
							25				25		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	1
							80				80		SF	DETECTABLE WARNING SURFACE	618.30	2
10				115			10				135		EACH	YIELDING MARKER POSTS	619.17	EST.
2950				7450			875				11275		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	89
325				6550							6875		LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	39

DETAILED SUMMARY OF QUANTITIES		
QUANTITY	UNIT	ITEMS
		FOR INDIVIDUAL BREAKDOWNS SEE SHEETS 18 AND 84

STATE OF VERMONT
AGENCY OF TRANSPORTATION

COMPOSITE QUANTITY SHEET 2

[illegible]

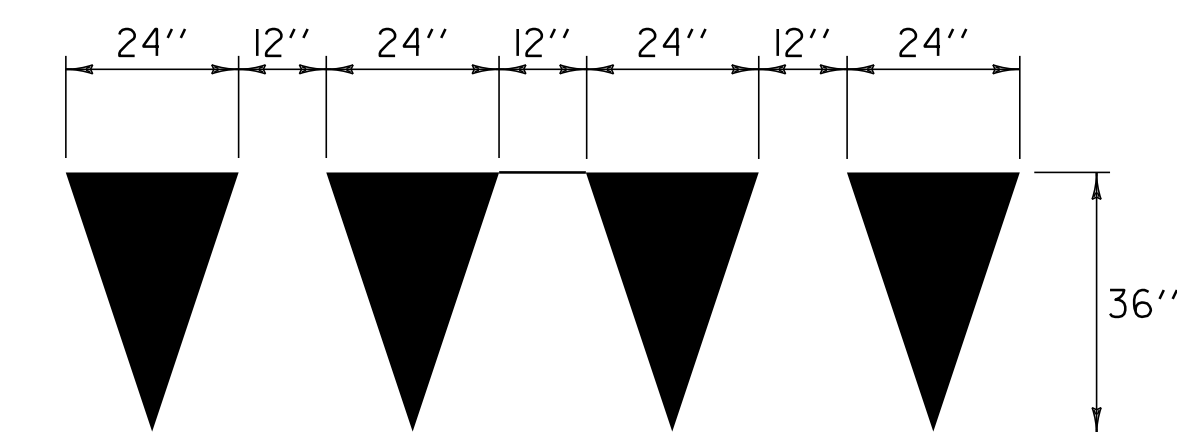
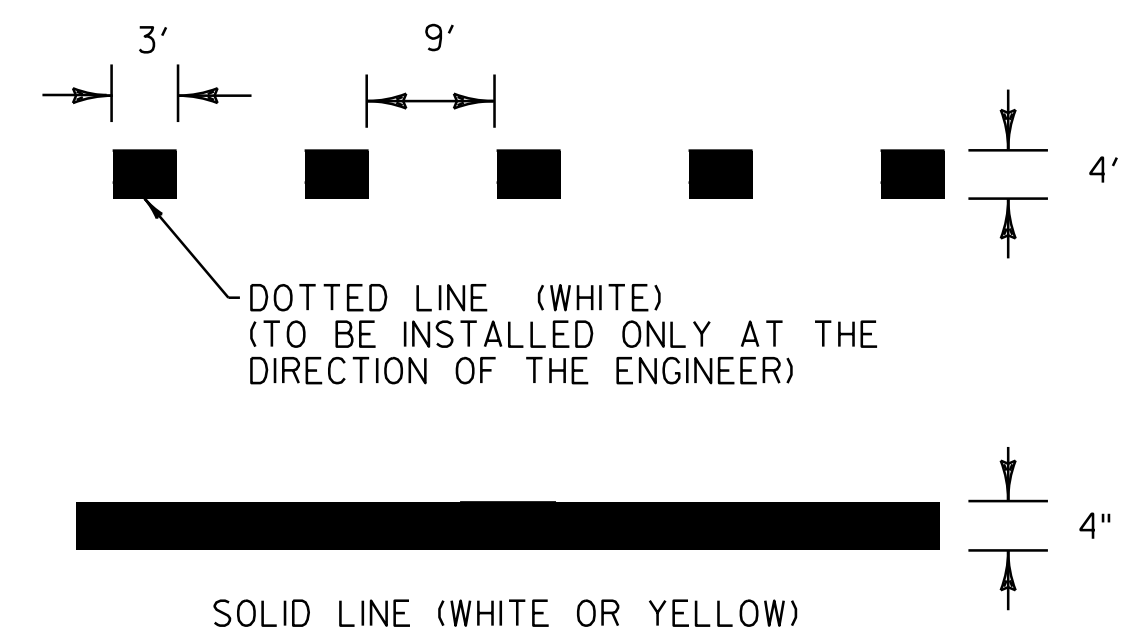
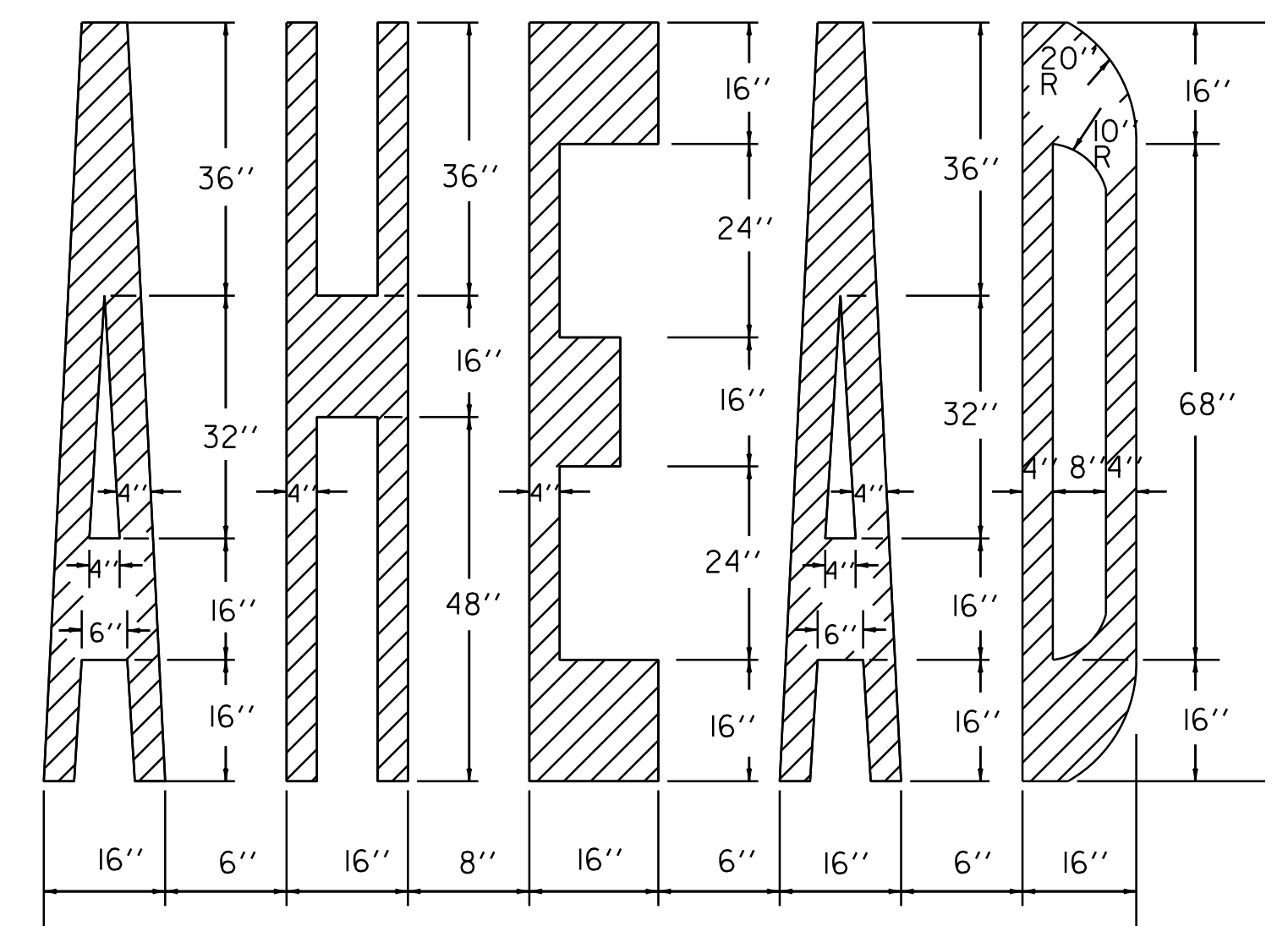
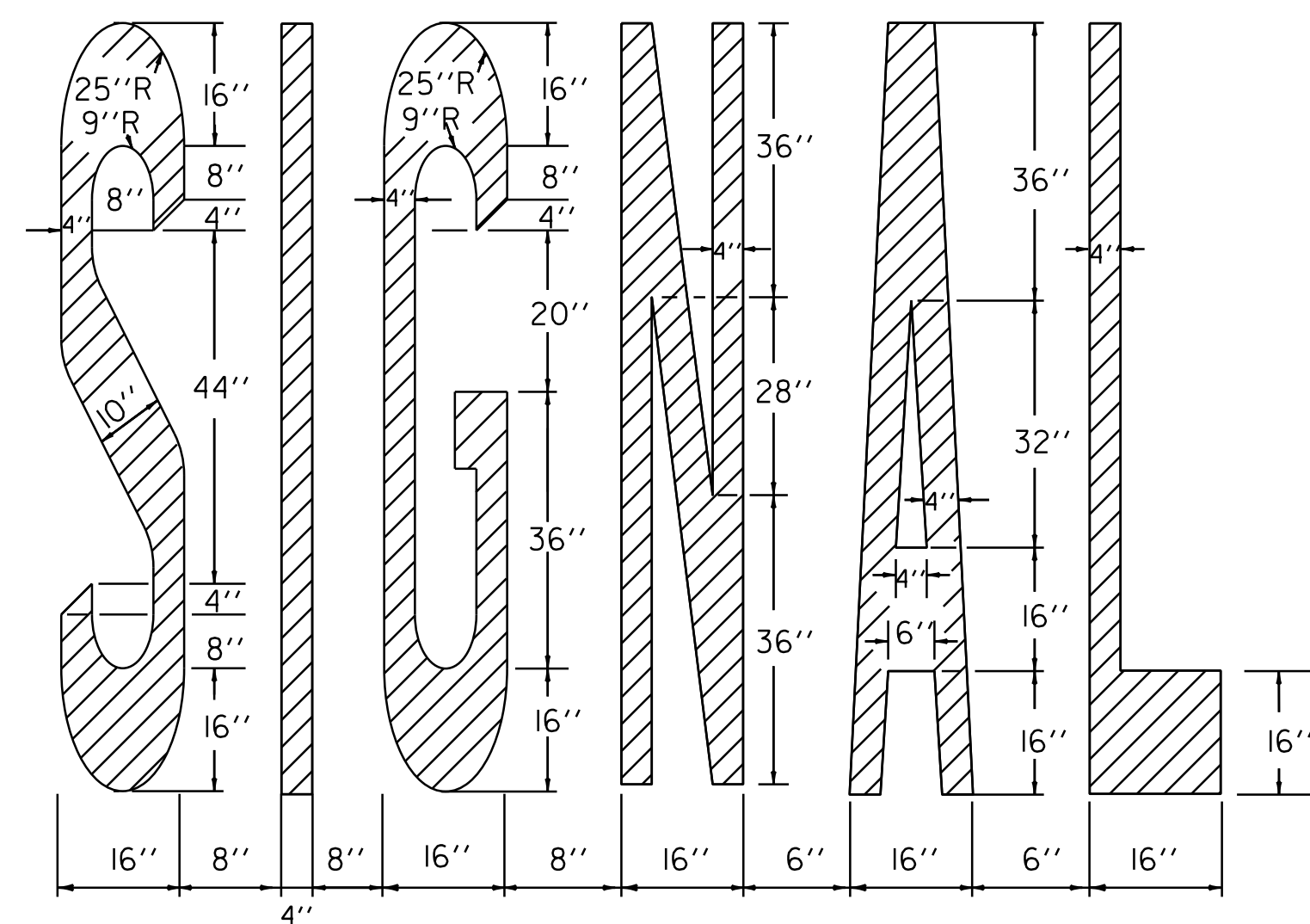
STATE OF VERMONT AGENCY OF TRANSPORTATION											COMPOSITE QUANTITY SHEET 3										
SUMMARY OF ESTIMATED QUANTITIES											TOTALS		DESCRIPTIONS						DETAILED SUMMARY OF QUANTITIES		
ROADWAY (MAJOR COLLECTOR)	TRAINING	STP 2917(1)					STP 2918(1)				GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITY	UNIT	ITEMS		
		RAILROAD- BID ITEMS	FULL C.E. ITEMS	ROADWAY (MINOR ARTERIAL)	BRIDGE (MINOR ARTERIAL)		ROADWAY (NO FED/ STATE PART)	BRIDGE	FULL C.E. ITEMS												
														BEGIN OPTION DD							
800											800		LF	DURABLE 6 INCH YELLOW LINE, THERMOPLASTIC	646.432	II					
800											800		LF	DURABLE 6 INCH YELLOW LINE, EPOXY PAINT	646.433	II					
800											800		LF	DURABLE 6 INCH YELLOW LINE, POLYUREA	646.434	II					
														END OPTION DD							
														BEGIN OPTION EE							
110							100				210		LF	DURABLE 8 INCH WHITE LINE, THERMOPLASTIC	646.442	5					
110							100				210		LF	DURABLE 8 INCH WHITE LINE, EPOXY PAINT	646.443	5					
110							100				210		LF	DURABLE 8 INCH WHITE LINE, POLYUREA	646.444	5					
														END OPTION EE							
														BEGIN OPTION FF							
1460				390							1850		LF	DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC	646.452	22					
1460				390							1850		LF	DURABLE 8 INCH YELLOW LINE, EPOXY PAINT	646.453	22					
1460				390							1850		LF	DURABLE 8 INCH YELLOW LINE, POLYUREA	646.454	22					
														END OPTION FF							
														BEGIN OPTION GG							
							35				35		LF	DURABLE 12 INCH WHITE LINE, THERMOPLASTIC	646.462	3					
							35				35		LF	DURABLE 12 INCH WHITE LINE, EPOXY PAINT	646.463	3					
							35				35		LF	DURABLE 12 INCH WHITE LINE, POLYUREA	646.464	3					
														END OPTION GG							
														BEGIN OPTION HH							
240				140			180				560		LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	10					
240				140			180				560		LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.483	10					
240				140			180				560		LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	10					
														END OPTION HH							
														BEGIN OPTION II							
132				24			58				214		EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-					
132				24			58				214		EACH	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.493	-					
132				24			58				214		EACH	DURABLE LETTER OR SYMBOL, POLYUREA	646.494	-					
														END OPTION II							
														BEGIN OPTION JJ							
							70				70		LF	DURABLE CROSSWALK MARKING, THERMOPLASTIC	646.502	-					
							70				70		LF	DURABLE CROSSWALK MARKING, EPOXY PAINT	646.503	-					
							70				70		LF	DURABLE CROSSWALK MARKING, POLYUREA	646.504	-					
														END OPTION JJ							
														BEGIN OPTION KK							
2											2		EACH	DURABLE RAILROAD CROSSING SYMBOL, THERMOPLASTIC	646.512	-					
2											2		EACH	DURABLE RAILROAD CROSSING SYMBOL, EPOXY PAINT	646.513	-					
2											2		EACH	DURABLE RAILROAD CROSSING SYMBOL, POLYUREA	646.514	-					
														END OPTION KK							
																	PROJECT NAME: BRADFORD				
																	PROJECT NUMBER: STP 2917(1) & STP 2918(1)				
																	FILE NAME: p10b236.dgn				
																	PLOT DATE: 03-SEP-2014 12:49				
																	PROJECT LEADER: PTS				
																	DRAWN BY: WWG				
																	DESIGNED BY: NLL				
																	CHECKED BY: PTS				
																	IPARM FILE NAME: p10b236_05				
																	SHEET 5 OF 105				

COMPOSITE QUANTITY SHEET 4

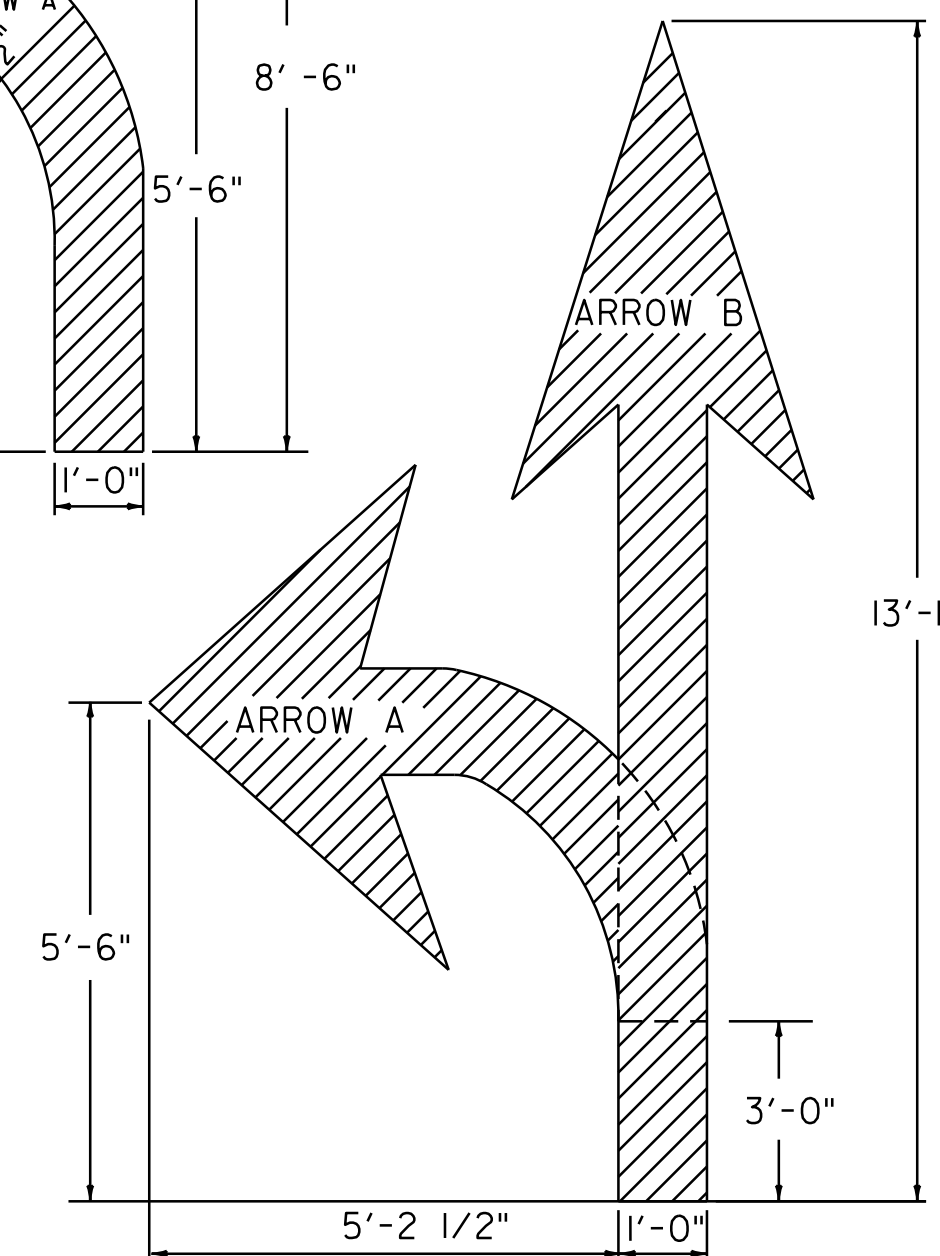
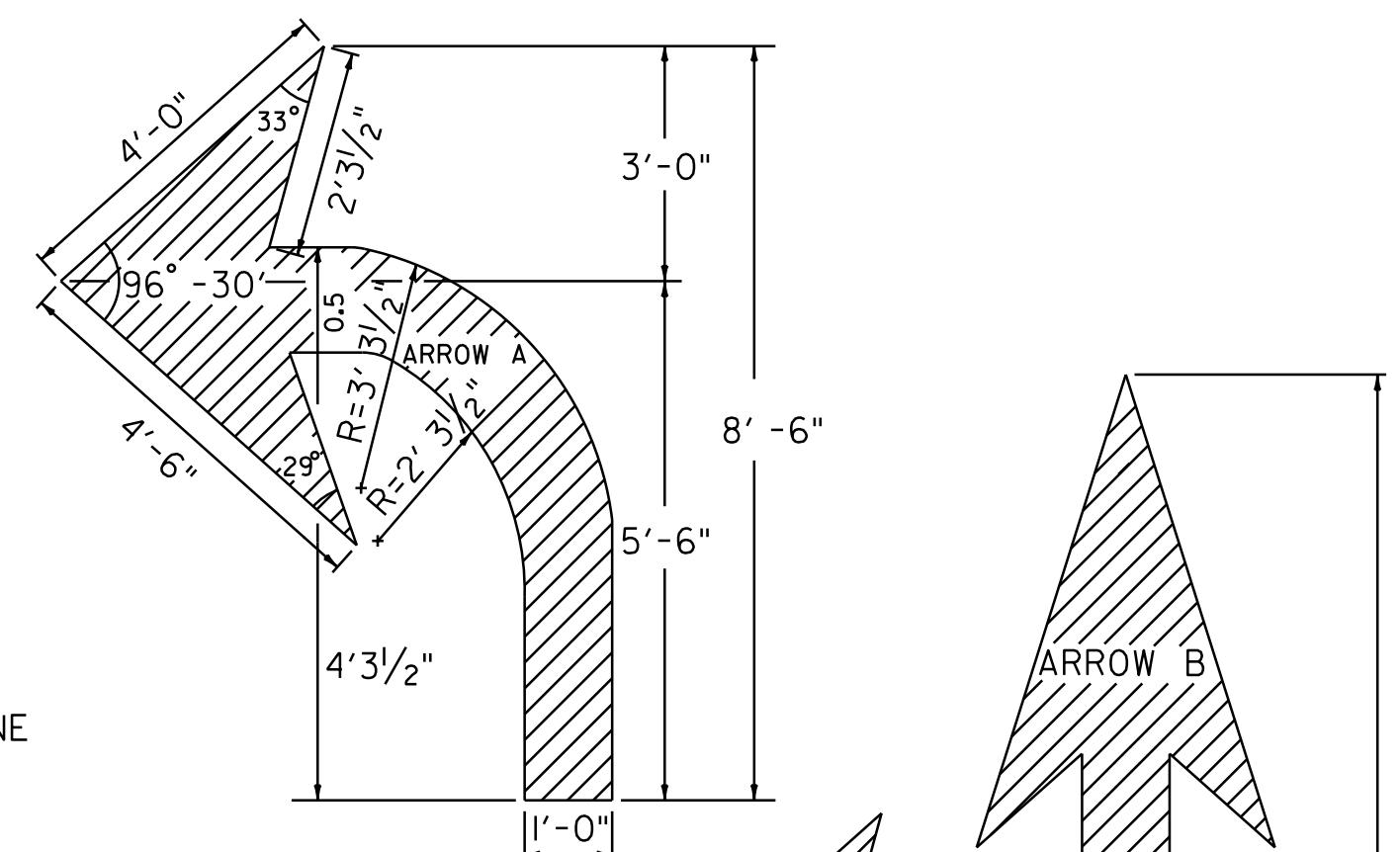
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PROJECT NUMBER: STP 2917(I) & STP 2918(I)	
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DESIGNED BY: NLL	CHECKED BY: PTS
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COMPOSITE QUANTITY SHEET 5

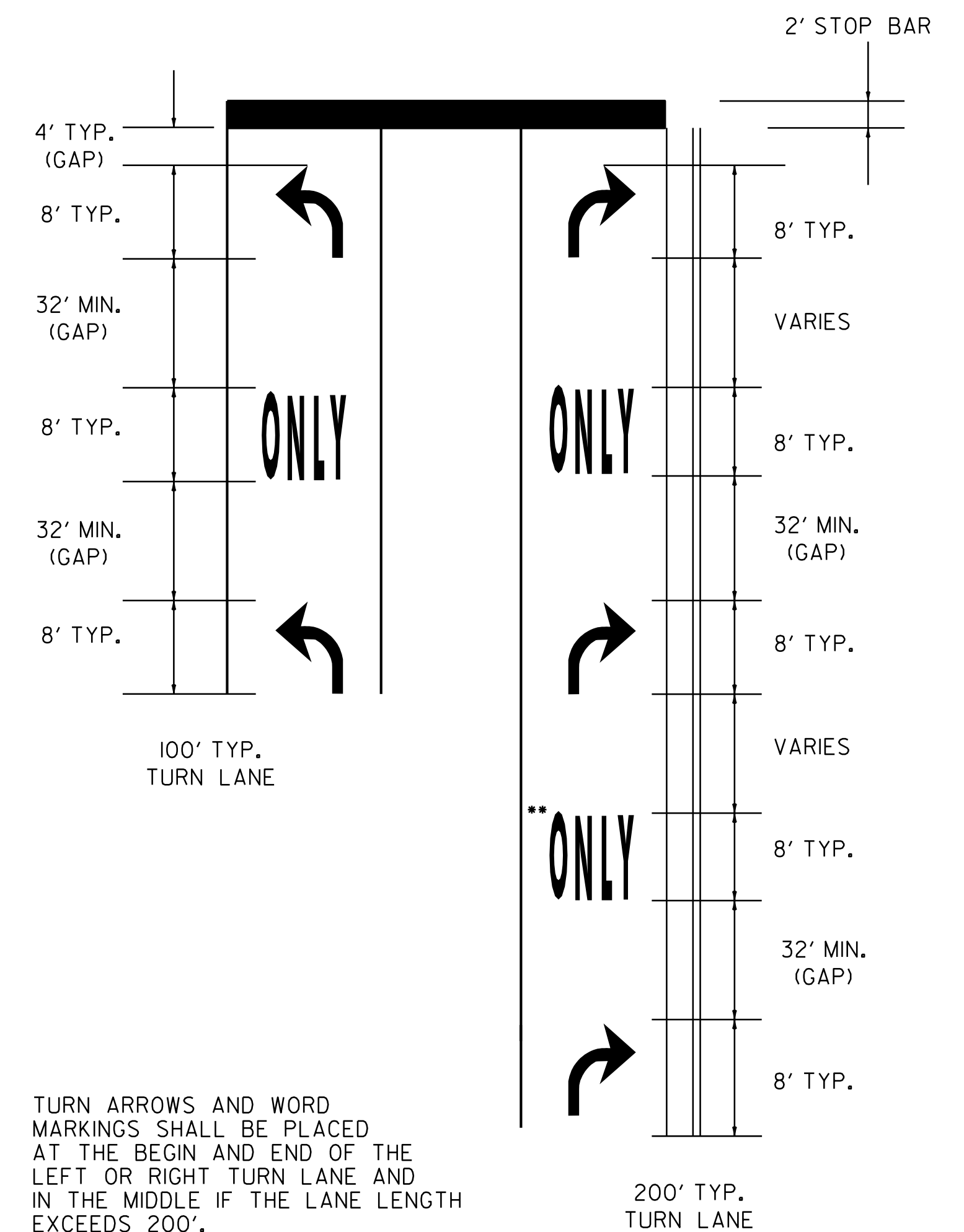
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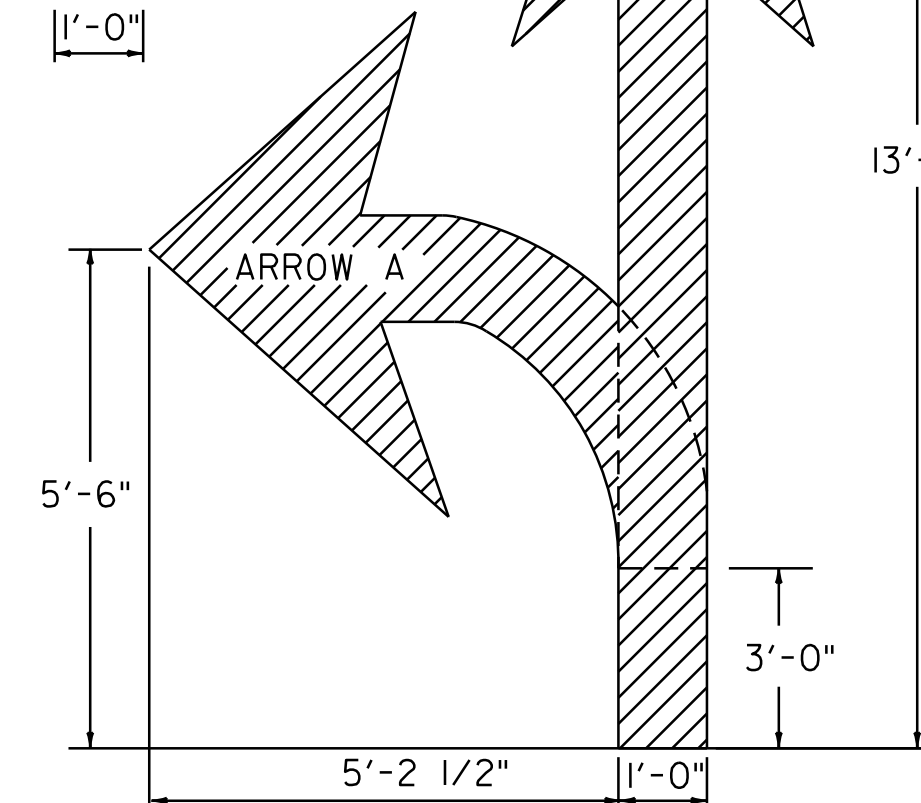
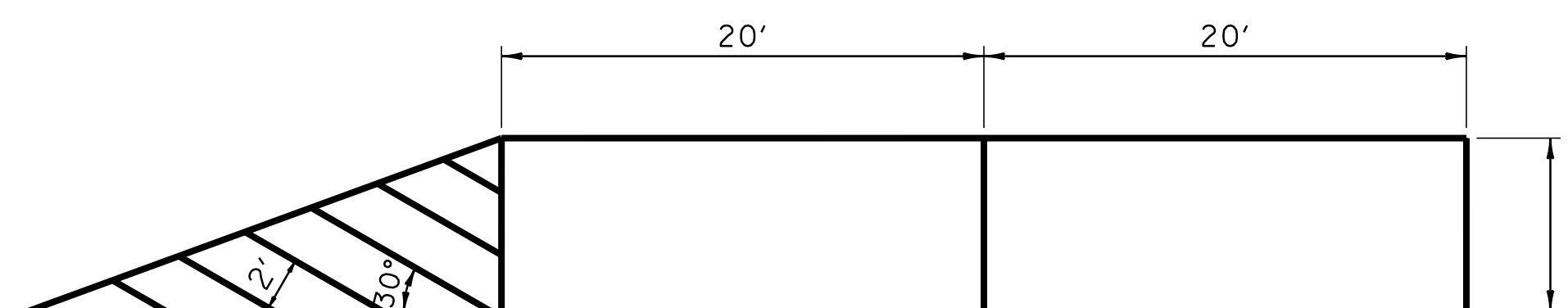
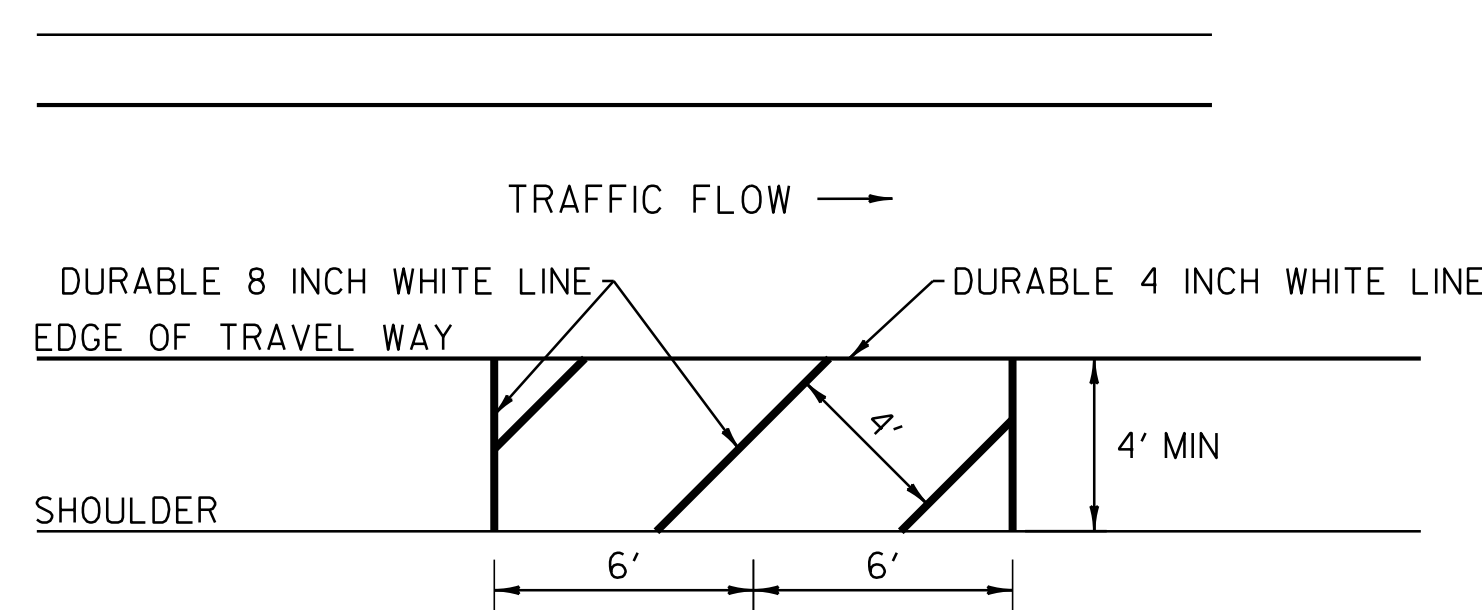
I. EACH TRIANGLE SHALL BE PAID AS ONE EACH
TEMPORARY LETTER OR SYMBOL, PAINT OR
DURABLE LETTER OR SYMBOL



TO BE PAID AS TWO SYMBOLS



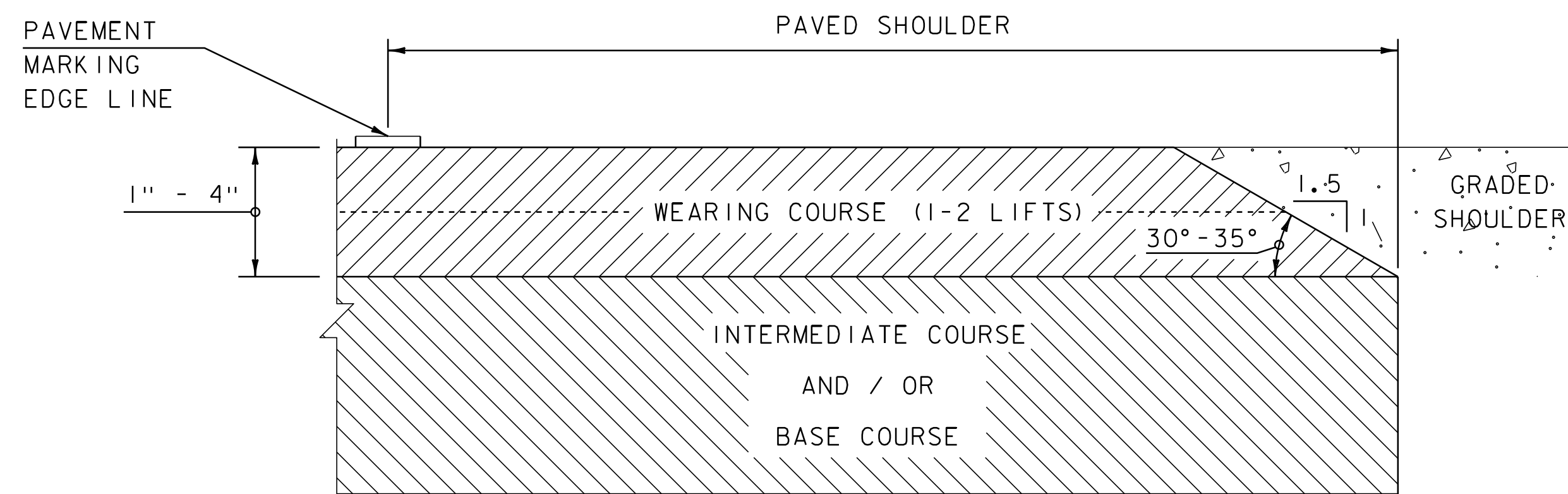
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PROJECT NUMBER: STP 2917(I) & STP 2918(I)	
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PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_08	SHEET 8 OF 105



TO BE PAID AS TWO SYMBOLS

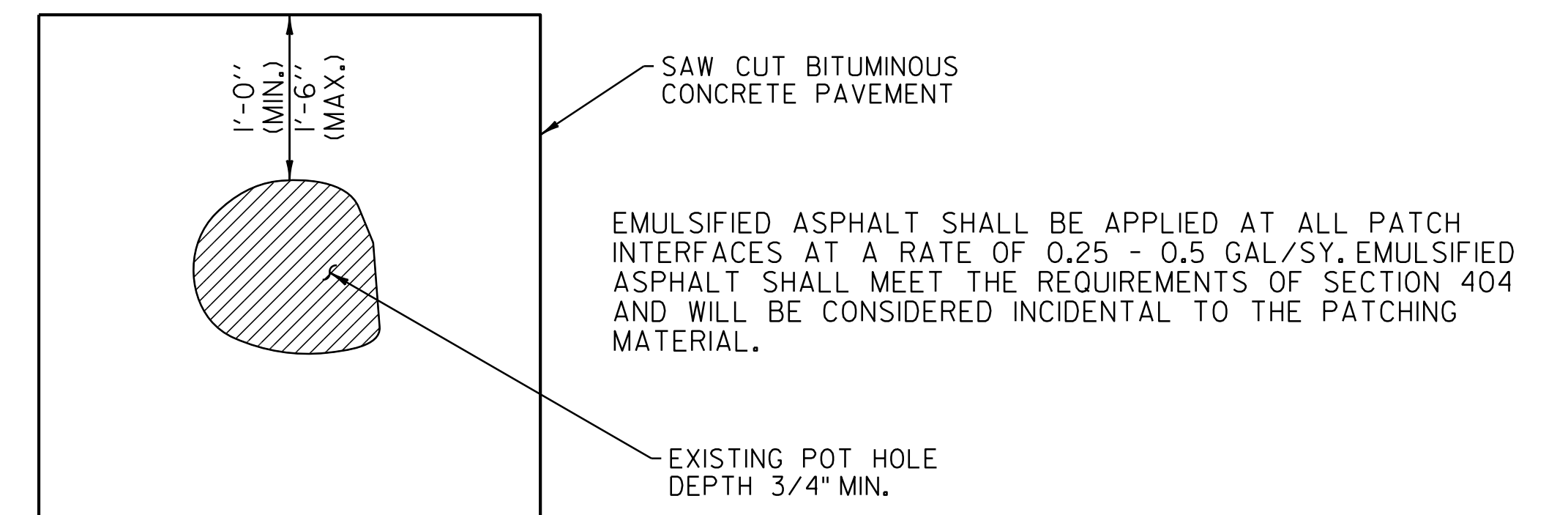
ARROW DETAILS

NOT TO SCALE



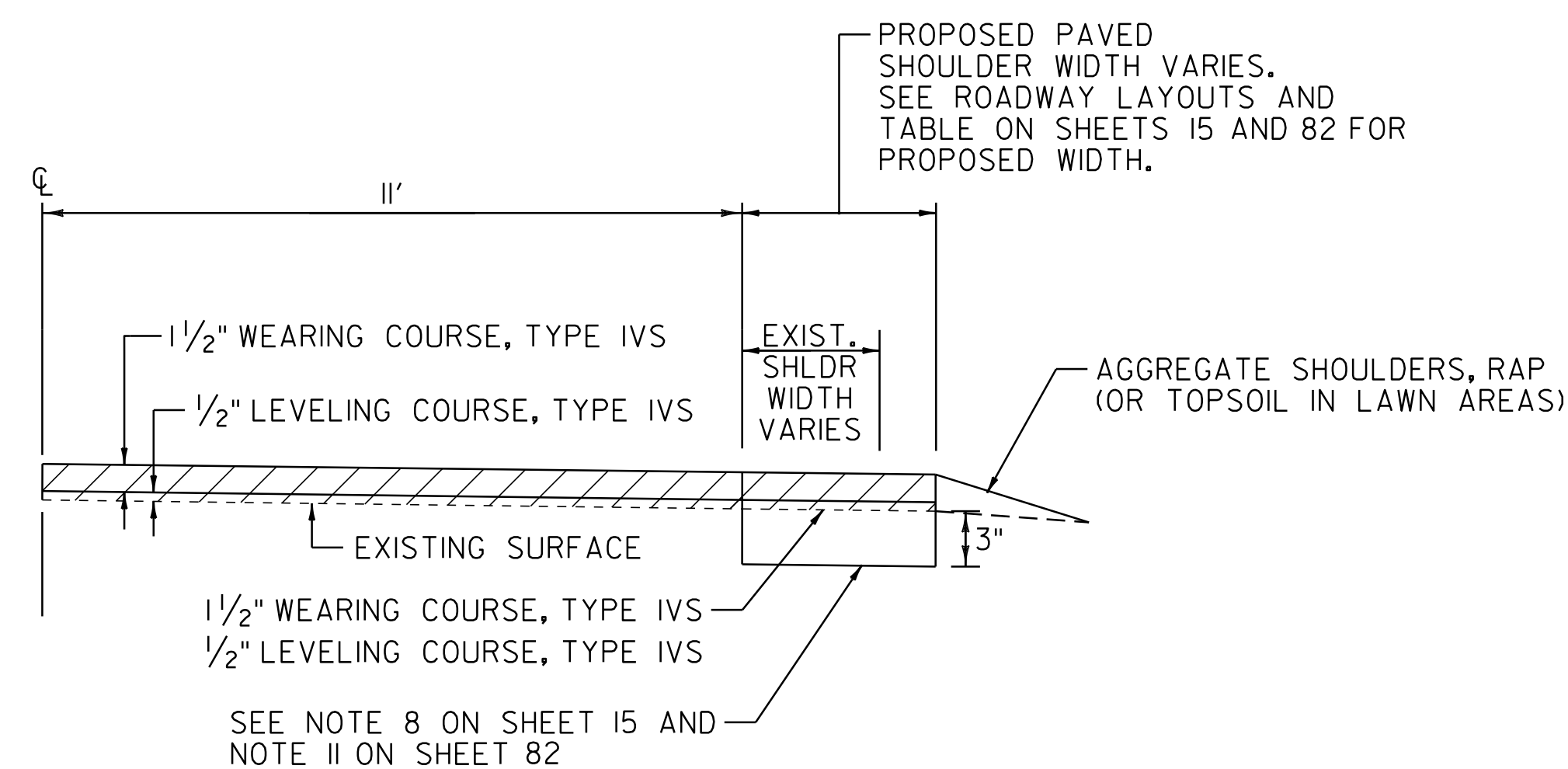
SAFETY EDGE DETAIL

NOTE: LEVELING COURSE MAY INCLUDE THE "SAFETY EDGE" AT THE CONTRACTOR'S CHOICE.



TYPICAL POT HOLE REPAIR

NOT TO SCALE



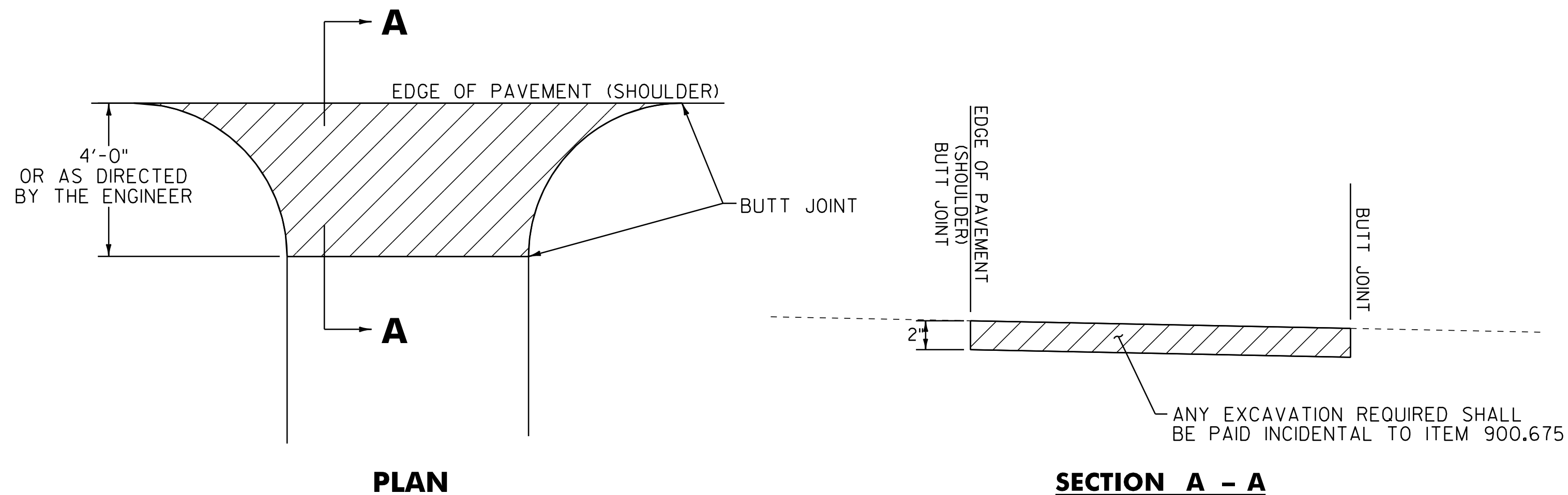
SHOULDER RECONSTRUCTION AREAS

NOT TO SCALE

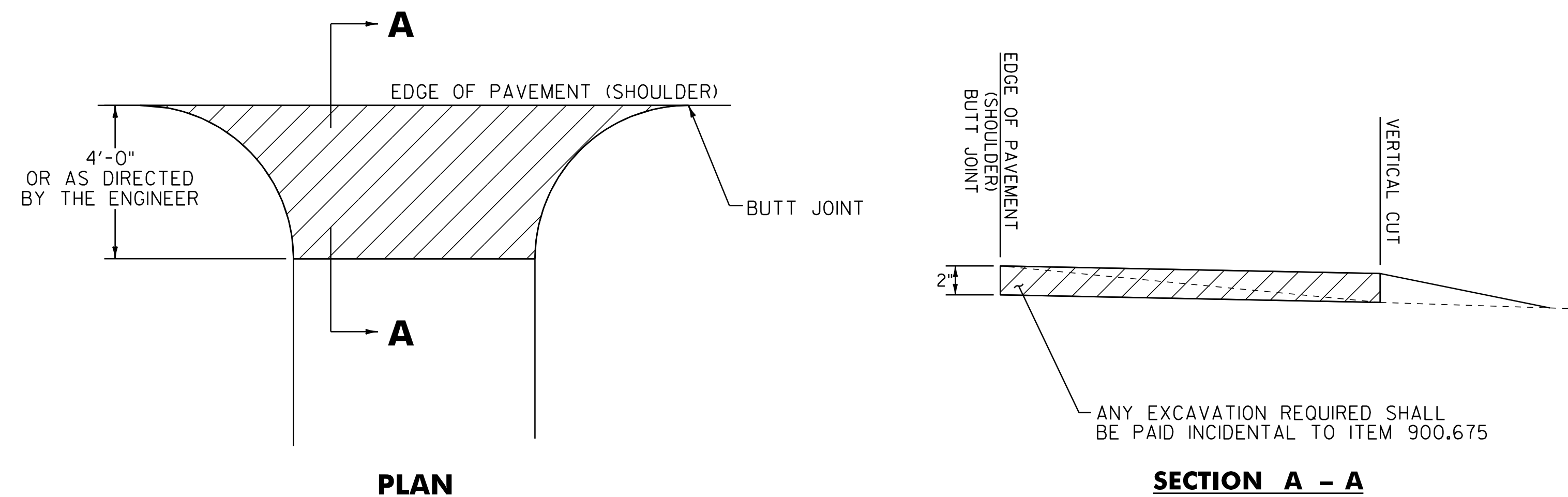
COMPOSITE MISCELLANEOUS DETAILS SHEET

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(1) & STP 2918(1)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:49
PROJECT LEADER: PTS	DRAWN BY: WWG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_09	SHEET 9 OF 105

LOCATION OF DRIVES																										
STATION			POSITION			QUANTITY (SY)			STATION			POSITION			QUANTITY (SY)											
VT 25 STP 2917(I) MAJOR COLLECTOR									VT 25 STP 2917(I) MINOR ARTERIAL									VT 25B STP 2918(I) MAJOR COLLECTOR								
1+68			LT			13			187+38			RT			9			B0+64			LT			4		
3+88			RT			7			188+40			LT			36			B1+31			LT			6		
9+86			RT			21			189+20			LT			37			B2+33			LT			7		
10+55			RT			5			200+13			LT			7			B2+52			RT			12		
11+90			RT			23			211+64			RT			23			B3+21			RT			13		
14+73			LT			119			212+94			LT			5			B7+89			LT			15		
15+37			RT			75			213+74			LT			4			B7+89			RT			15		
17+95			RT			9			213+80			RT			21			B12+60			LT			24		
18+15			LT			19			214+90			RT			7			B13+33			RT			7		
22+36			RT			6			215+08			RT			6			B23+96			RT			43		
27+85			LT			20			215+45			RT			12			B25+38			LT			7		
28+13			RT			19			216+90			LT			7			B27+01			RT			25		
29+45			RT			22			217+12			RT			25			B28+06			LT			37		
30+00			RT			14			217+90			LT			7			B28+25			RT			11		
30+75			LT			16			219+47			RT			7			B30+57			LT			6		
31+02			RT			19			220+03			LT			9			B31+34			LT			6		
31+54			LT			8			220+17			RT			11			B32+12			RT			20		
32+25			RT			26			220+87			LT			11			B32+47			LT			22		
33+45			RT			7			221+94			RT			15			B33+71			LT			8		
34+90			LT			15			222+66			LT			7			B34+00			RT			33		
37+93			RT			23			224+17			LT			8			B39+51			LT			11		
47+00			RT			45			232+50			LT			8			B40+23			LT			9		
SUBTOTAL			531						232+79			RT			9			B40+62			RT			11		
									233+51			LT			7			B41+58			LT			8		
									235+76			LT			10			B41+73			RT			22		
US 5 STP 2917(I) MAJOR COLLECTOR									268+02			RT			20			B42+26			LT			20		
U68+78			LT			10			269+95			RT			10			B43+05			LT			27		
U70+59			LT			19			271+63			RT			15			B43+66			LT			19		
U72+55			RT			19			278+75			RT			5			B43+67			RT			23		
U73+55			LT			20			282+21			RT			9			B44+41			LT			19		
U73+85			RT			31			291+28			RT			10			B47+32			LT			31		
U74+55			LT			20			300+46			RT			9			B48+14			RT			11		
U75+81			RT			20			313+19			RT			19											
U76+22			LT			23			318+30			RT			5											
SUBTOTAL			162						SUBTOTAL			410														
VT 25 STP 2917(I) MINOR ARTERIAL																										
69+71			LT			49																				
75+13			RT			19																				
75+32			LT			4																				
79+86			RT			7																				
81+76			LT			13																				
84+37			RT			14																				
88+16			RT			5																				
101+44			RT			11																				
103+85			RT			6																				
106+05			RT			8																				
108+40			LT			8																				
113+40			LT			10																				
115+75			LT			7																				
116+71			RT			9																				
117+31			LT			4																				
117+99			RT			19																				
119+71			RT			8																				
119+90			LT			10																				
120+03			RT			6																				
122+55			LT			8																				
129+83			LT			8																				
130+92			LT			7																				
131+95			LT			12																				
140+04			LT			9																				
149+00			LT			6																				
153+46			LT			28																				
159+37			LT			10																				
159+86			RT			27																				
166+79			LT			17																				
172+57			LT			13																				
178+57			LT			6																				
180+84			LT			12																				
181+27			RT			8																				
184+33			RT			11																				
SUBTOTAL			399						SUBTOTAL VT 25			531														
									(MAJOR COLLECTOR)																	
									SUBTOTAL US 5			162														
									(MAJOR COLLECTOR)																	
									SUBTOTAL VT 25			809														
									(MINOR ARTERIAL)																	
									SUBTOTAL STP 2917(I)			1502														
									ROUNDING			8														
									TOTAL STP 2917(I)			1510														



HANDWORK DETAILS FOR PAVED DRIVES



HANDWORK DETAILS FOR GRAVEL DRIVES

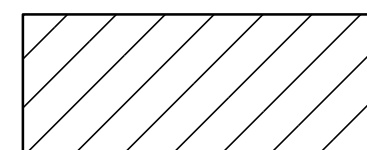
NOTES

I. PAVING LIFT NOT TO EXCEED 2" (50mm).

2. THE COST OF PLACING SUBBASE MATERIAL, CLEANING EXISTING
PAVED SURFACES, INCLUDING POWER EQUIPMENT, AND FOR FILLING
JOINTS, CRACKS AND HOLES AT LEAST 24 HOURS BEFORE PAVING,
WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED
INCIDENTAL TO ITEM 900.675.

3. EXCAVATION NEEDED TO ACHIEVE PROPER DRIVE SLOPES WILL NOT BE PAID DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 900.675.

LEGEND



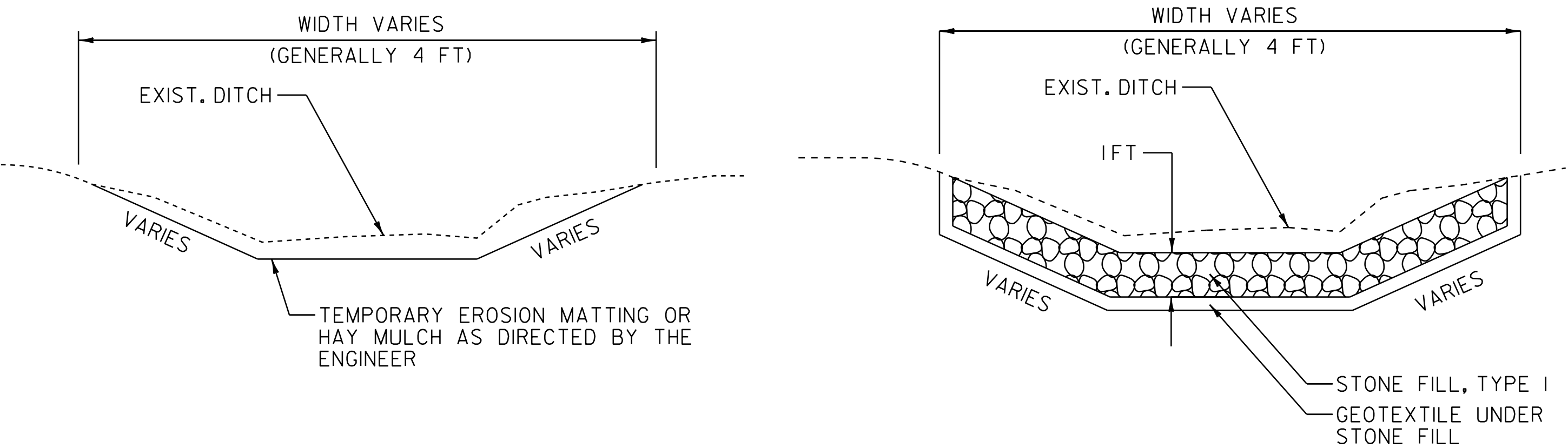
ITEM 900.675 - SPECIAL PROVISION
(HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)

NOT TO SCALE

COMPOSITE HANDWORK DETAIL SHEET

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(I) & STP 2918(I)	
FILE NAME: pi0b236.dgn	PLOT DATE: 03-SEP-2014 12:49
PROJECT LEADER: PTS	DRAWN BY: WWG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: pi0b236_I0	SHEET 10 OF 105

LOCATION				FEET OF DITCHING			MISC. ITEMS					REMARKS
SITE	STATION	STATION	POS.	PERCENT GRADE			613.10	613.11	649.31	651.15	653.20	
				0-1	1-2.5	2.5-10	STONE FILL, TYP. I	STONE FILL, TYP. II	GEOT. UNDER STONE FILL	SEED	TEMP. EROS. MATT.	
							CY	CY	SY	LBS	SY	
	VT 25 2917(1)			LF	LF	LF	CY	CY	SY	LBS	SY	
	MAJOR COLLECTOR											
1	1+20	6+50	LT			530	79		353			
2	6+50	9+00	LT		250					1.0	111	
3	18+50	23+00	LT	450						3.0		
	621.60 ANCHOR FOR SB RAIL									1.0	300	
	VT 25 STP 2917(1)											
	MINOR ARTERIAL											
1	73+90	105+60	LT		3170					17.5	1409	
2	80+00	88+00	RT		800					4.5	356	
3	137+30	177+50	LT		4020					22.0	1787	
4	235+50	251+30	RT		1580					8.5	702	
5	239+00		LT					3	12			3' X 15' WASHOUT
6	240+44		LT					3	12			3' X 15' WASHOUT
7	243+85	244+75	RT		90					0.5	40	CREATE DITCH
8	270+20	286+00	RT		1580					8.5	702	
9	320+50	331+70	RT		1120					6.5	498	
	621.60 ANCHOR FOR SB RAIL									3.0	1300	
SUBTOTAL VT 25 STP 2917(1)												
MAJOR COLLECTOR				450	250	530	79		353	5.0	411	
SUBTOTAL VT 25 STP 2917(1)												
MINOR ARTERIAL				0	12360	0		6	24	71.0	6794	
ROUNDING STP 2917(1)							1	1	13	4.0	45	
	TOTAL STP 2917(1)			450	12610	530	80	7	390	80.0	7250	
VT 25B STP 2918(1)												
MAJOR COLLECTOR												
1	B2+40	B5+40	LT			300	44		200			
2	B3+35	B6+40	RT			305	45		203			
3	B18+45	B23+45	RT		500					3.0	222	
4	B18+60	B22+40	LT		380					2.0	169	
5	B23+00	B25+25	RT	225						1.0		
	621.60 ANCHOR FOR SB RAIL									0.5	200	
SUBTOTAL VT 25B STP 2918(1)												
MAJOR COLLECTOR				225	880	605	89		403	6.5	591	
ROUNDING STP 2918(1)							1		12	0.5	9	
TOTAL STP 2918(1)				225	880	605	90		415	7	600	



DITCH DETAIL 0 TO 2.5 PERCENT

DITCH DETAIL > 2.5 PERCENT

DITCH DETAIL NOTES

1. GRADES LESS THAN 1 PERCENT SHALL USE ITEM 651.15, SEED AND ITEM 651.25, HAY MULCH. GRADES BETWEEN 1 AND 2.5 PERCENT SHALL USE ITEM 651.25, HAY MULCH OR ITEM 653.20, TEMPORARY EROSION MATTING AS DIRECTED BY THE ENGINEER. GRADES OVER 2.5 PERCENT SHALL USE ITEM 649.31, GEOTEXTILE UNDER STONE FILL AND ITEM 613.10, STONE FILL TYPE I AS DIRECTED BY THE ENGINEER.
2. PIPE INLET AND OUTLET AREAS AND DITCH CLEANING THROUGHOUT THE PROJECT SHALL BE PERFORMED AT LOCATIONS INDICATED ON THIS SHEET AND AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE UNDER THE APPLICABLE EQUIPMENT RENTAL ITEM(S).

SEEDING FORMULA

RATE: DOUBLE IF HYDROSEEDING

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	22.5	CREeping RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

SEEDING NOTES

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.

SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

HAY MULCH: TO BE PLACED ON THE EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.

TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

COMPOSITE DITCH
CLEANING SHEET

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(1) & STP 2918(1)	
FILE NAME: pl0b236.dgn	PLOT DATE: 03-SEP-2014 12:49
PROJECT LEADER: PTS	DRAWN BY: WWG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: pl0b236_11	SHEET 11 OF 105

NOT TO SCALE

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

- 1. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MUTCD, PART 6.
- 2. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
- 3. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
- 4. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.
- 5. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OR TRAVEL.
- 6. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.
- 7. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. PAYMENT WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10 TRAFFIC CONTROL.

TEMPORARY TRAFFIC CONTROL NOTES

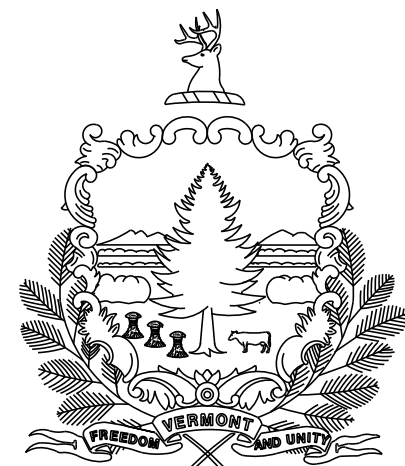
- 1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.
- 2. THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, SHALL INCLUDE ALL OF THE FOLLOWING, AS NEEDED: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE FLASHING ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VAOT STANDARDS. ALL ADJUSTING, RELOCATING AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED IN THE UNIT BID PRICE FOR CONTRACT ITEM 641.10 TRAFFIC CONTROL.
- 3. THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC DEVICES ARE ERECTED OR PLACED, OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED, THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH SUCH STANDARDS.
- 4. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.
- 5. ALL PERMANENT SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED, THE PAYMENT FOR WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10 TRAFFIC CONTROL.
- 6. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH THE LATEST EDITION OF THE MUTCD. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.
- 7. SEE VAOT STANDARD E-100 FOR ADDITIONAL SIGN PLACEMENT DETAILS.
- 8. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 9. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS AND SPECIAL PROVISIONS.

- 10. DIAMOND SHAPED SIGNS SHALL BE 48" X 48" WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.
- 11. RETROREFLECTIVE SHEETING SHALL BE MINIMUM ASTM D 4956 TYPE III OR VII AS NOTED ON VAOT STANDARD E-100 AND IN THE SPECIAL PROVISIONS.
- 12. CONSTRUCTION ZONE SIGNS SHALL BE INSTALLED AS OUTLINED IN THE SPECIAL PROVISIONS.
- 13. WHERE TEMPORARY SIGNS ARE PLACED BEHIND GUARDRAIL, THEY SHALL BE ADJUSTED SUCH THAT THE BOTTOM OF THE SIGNS ARE ABOVE THE TOP OF GUARDRAIL.
- 14. AS THE PAVING OPERATION MOVES, FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 1000 FEET FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC WHEN FLAGGING OPERATIONS CEASE FOR LONGER THAN 15 MINUTES.
- 15. CONES SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH.
- 16. PORTABLE CHANGEABLE MESSAGE SIGNS ARE OPTIONAL AND ARE TO BE USED AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL POSITION PORTABLE CHANGEABLE MESSAGE SIGNS WARNING MOTORISTS OF THE EXPECTED ROADWAY CONDITIONS AHEAD. THE MESSAGE TO BE DISPLAYED SHALL BE SUBMITTED TO THE ENGINEER IN ADVANCE FOR APPROVAL. THE COST OF PROVIDING THESE MESSAGE SIGNS SHALL BE PAID UNDER ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.
- 17. THE CONTRACTOR IS REQUIRED TO OBTAIN PERMITTING FROM MR. WILLIAM LAMBERT
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION
ADMINISTRATOR BUREAU OF TRAFFIC
TEL. (603) 271-2291
FOR THE PLACEMENT OF MUTCD COMPLIANT CONSTRUCTION WARNING SIGN PACKAGE AND FOR THE PLACEMENT OF PORTABLE CHANGEABLE MESSAGE SIGNS WITHIN THE STATE OF NEW HAMPSHIRE.
- 18. DIG SAFE SHALL BE NOTIFIED PRIOR TO THE INSTALLATION OF ANY SIGNS IN NEW HAMPSHIRE AT TEL. (888) 344-7233

COMPOSITE TEMPORARY TRAFFIC CONTROL NOTES

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(1) & STP 2918(1)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:49
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_12	SHEET 12 OF 105

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWN OF BRADFORD
COUNTY OF ORANGE

VT ROUTE 25 (MAJOR COLLECTOR & MINOR ARTERIAL)

BEGINNING AT A POINT, IN THE TOWN OF BRADFORD ON VT 25 AT STATION 0+38.00 (MM 0.007) AND EXTENDING
NORTHERLY ALONG VT 25 A DISTANCE OF 33,628.00 FEET (6.369 MILES) TO STATION 336+66.00 (MM 6.376).

TRAFFIC DATA

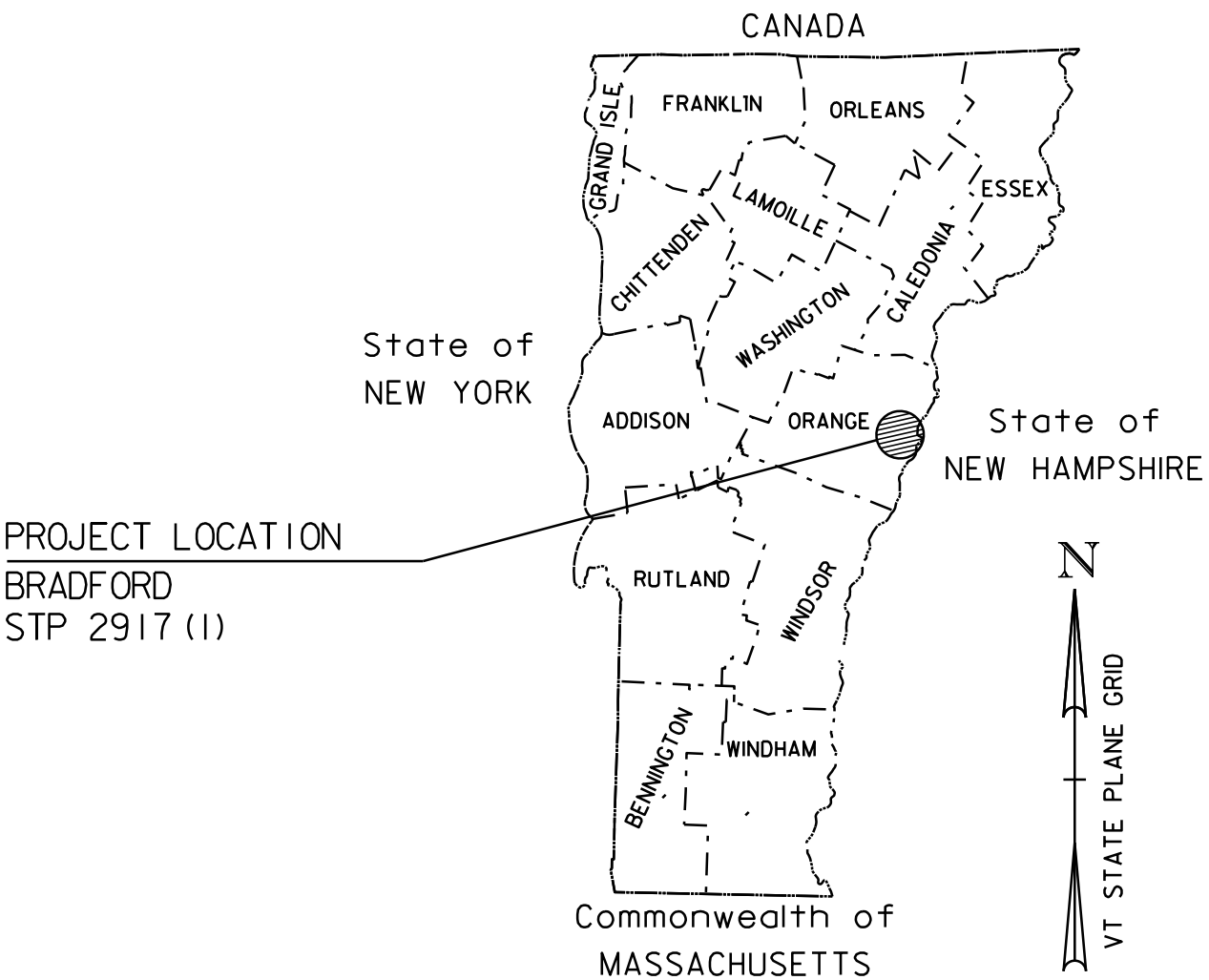
LOCATION	AADT		DHV		ESALs	
	2012	2022	2012	2022	2012-2022	2012-2032
VT 25						
BEGIN PROJECT TO US 5	4300	4500	490	510	399,000	1,003,000
US 5 TO I-91 NORTHBOUND RAMP	5500	5600	620	630	1,036,000	2,317,000
I-91 NORTHBOUND RAMP TO I-91 SOUTHBOUND RAMP	4500	4700	510	530	877,000	2,189,000
I-91 SOUTHBOUND RAMP TO SOUTH ROAD	3800	4000	430	450	718,000	1,799,000
SOUTH ROAD TO CHELSEA ROAD	3300	3400	370	380	684,000	1,565,000
CHELSEA ROAD TO END PROJECT	2300	2400	260	270	567,000	1,307,000

FROM
BRADFORD

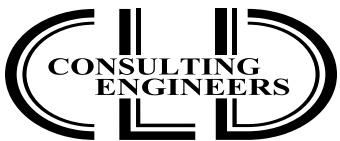
TO
STA 0+38.00 (MM 0.007) STA 336+66 (MM 6.376)

LENGTH OF ROADWAY = 33,628.00 FEET (6.369 MILES)
LENGTH OF PROJECT = 33,628.00 FEET (6.369 MILES)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING, RESURFACING
WITH A LEVELING COURSE AND WEARING COURSE, NEW PAVEMENT MARKINGS,
GUARDRAIL, RAIL-HIGHWAY GRADE CROSSING, AND OTHER RELATED HIGHWAY ITEMS.



QUALITY ASSURANCE PROGRAM: LEVEL 3

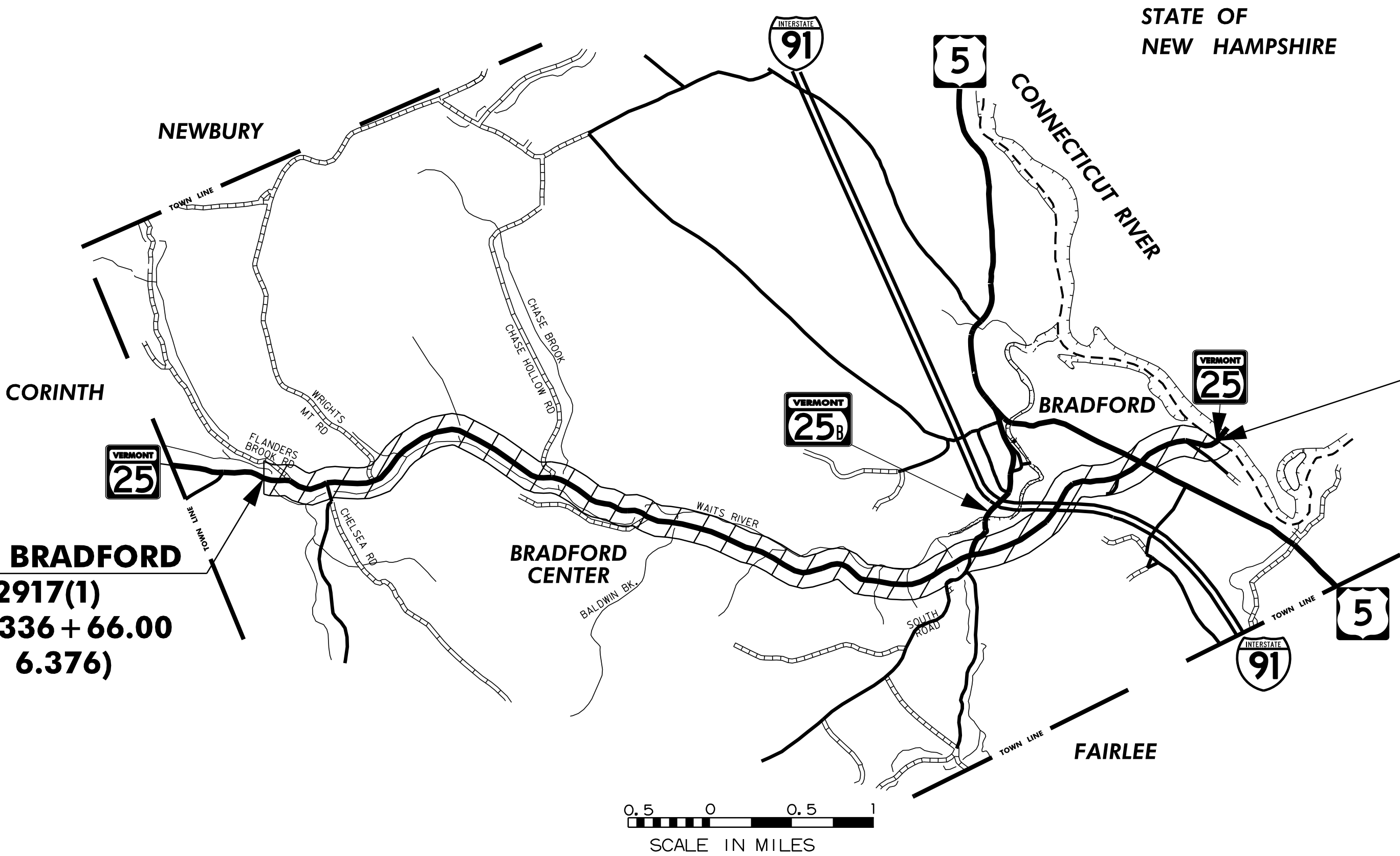


540 Commercial Street, Manchester, NH 03101
(603) 668-8223 • Fax: (603) 668-8802
cid@cidengineers.com • www.cidengineers.com
Maine • New Hampshire • Vermont

CONVENTIONAL SYMBOLS

COUNTY LINE	COUNTY LINE
TOWN LINE	TOWN LINE
LIMITS OF ACCESS	LIMITS OF ACCESS
POINT OF ACCESS	POINT OF ACCESS
FENCE LINE	FENCE LINE
STONE WALL	STONE WALL
TRAVELED WAY	TRAVELED WAY
GUARD RAIL	GUARD RAIL
RAILROAD	RAILROAD
SURVEY LINE	SURVEY LINE
CULVERT	CULVERT
POWER POLE	POWER POLE
TELEPHONE POLE	TELEPHONE POLE
TREES	TREES
CONTROL OF ACCESS	CONTROL OF ACCESS
PROPERTY LINE	PROPERTY LINE
R.O.W. TAKING LINE	R.O.W. TAKING LINE
SLOPE RIGHTS	SLOPE RIGHTS
TOP OF CUT	TOP OF CUT
TOE OF SLOPE	TOE OF SLOPE

END BRADFORD
STP 2917(1)
STA 336 + 66.00
(MM 6.376)



STATE OF
NEW HAMPSHIRE

BEGIN BRADFORD
STP 2917(1)
STA 0 + 38.00
(MM 0.007)

UNLESS OTHERWISE NOTED, ALL DRAWING AND DETAILS
ON THE PLANS ARE DRAWN "NOT TO SCALE".

RIGHT-OF-WAY LIMITS, IF APPLICABLE, ARE PROVIDED
SOLELY FOR THE CONVENIENCE OF THE STATE AND ITS
CONTRACTOR DURING THE COURSE OF THIS PAVING
PROJECT. ANY REFERENCES TO OFFSETS ON THESE
PLANS ARE APPROXIMATE AND SHOULD NOT BE RELIED
UPON FOR ANY OTHER PURPOSES.

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY
ADMINISTRATION OR THE DIRECTOR OF PROGRAM
DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

PROJECT MANAGER : MICHAEL FOWLER

PROJECT NAME : BRADFORD
PROJECT NUMBER: STP 2917(1)

SHEET 14 OF 105 SHEETS

GENERAL NOTES

1. THE PAVEMENT WEARING COURSE SHALL BE TYPE IVS. THE LEVELING COURSE SHALL BE TYPE IVS, ITEM 490.30, AS SHOWN ON THE TYPICALS, UNLESS DIRECTED BY THE ENGINEER. AN EXTRA QUANTITY OF LEVELING HAS BEEN ADDED TO THE HOT MIX TOTAL FOR SPOT LEVELING BEFORE FULL WIDTH LEVELING IN AN EFFORT TO CORRECT THE WORST PROFILE DEFICIENCIES. ALL PG BINDER USED IN SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH SUBSECTION 490.03(b).
2. ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-IH OR CRS-IH) SHALL BE APPLIED ON ALL COLD PLANED SURFACES AT A RATE OF 0.080 GAL/SY OR AS DIRECTED BY THE ENGINEER. SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-IH OR CRS-IH) SHALL BE APPLIED BETWEEN ALL PAVED SURFACES AT A RATE OF 0.025 TO 0.040 GAL/SY.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = 1/4" +/- (TOTAL THICKNESS EXCLUDING LEVELING COURSE).
4. GRASS GROWING ADJACENT TO THE PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT, WHICH MAY HAMPER THE PLACEMENT OF NEW BITUMINOUS CONCRETE PAVEMENT, SHALL BE REMOVED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
5. ALL SIDE ROADS ARE TO BE PAVED 25 FEET FROM THE EDGE OF MAINLINE UNLESS OTHERWISE SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER.
6. THE CULVERT PIPES SHOWN IN THE PLANS ARE TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE ENGINEER SHALL DETERMINE WHETHER THE COMPACTION EFFORT OVER EXISTING CULVERTS SHOULD BE REDUCED. ALL CULVERTS ARE TO BE RETAINED.
7. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ON BRIDGE DECKS. SHOULD ANY DAMAGE OCCUR TO THE DECK OR MEMBRANE AS A RESULT OF THESE OPERATIONS THE ENGINEER SHALL CONTACT THE VTRANS CONSTRUCTION STRUCTURES ENGINEER TO PROVIDE AN ASSESSMENT OF THE DAMAGE AND RECOMMEND ANY NECESSARY REPAIRS. THE CONSTRUCTION STRUCTURES ENGINEER WILL ALSO DETERMINE IF THE DAMAGE WAS AVOIDABLE. IF THE CONTRACTOR IS DETERMINED BY THE ENGINEER TO BE AT FAULT FOR THE DAMAGE, THE RECOMMENDED REPAIRS SHALL BE COMPLETED BY THE CONTRACTOR AT NO COST TO THE STATE.
8. EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE ENGINEER. EXCAVATION SHALL BE PAID FOR USING APPROPRIATE RENTAL ITEMS. MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.40 SUBBASE, RAP. EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE DONE BEFORE THE LEVELING COURSE IS PLACED. SEE THE PAVING PROJECT LIMITS TABLE ON THIS SHEET FOR PROPOSED PAVEMENT WIDTHS.
9. AN ESTIMATED QUANTITY OF ITEM 301.35 SUBBASE OF DENSE GRADED CRUSH STONE HAS BEEN INCLUDED TO REPLACE UNSUITABLE MATERIAL BENEATH THE CURBED ISLANDS NOTED TO BE REMOVED. PLACEMENT WILL BE AT THE DISCRETION OF THE ENGINEER.

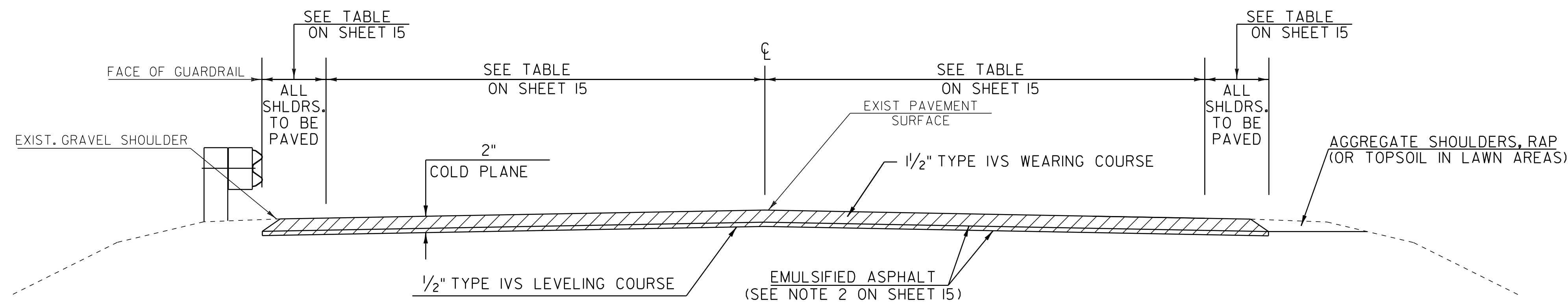
PROJECT PAVING LIMITS

TOWN	BEGIN STATION	END STATION	LT SHOULDER	LANE TYPICAL	RT SHOULDER	WEARING DEPTH (in)	LEVELING DEPTH	TYPE	NOTES
BRADFORD									
VT 25 MAJOR COLLECTOR	0+38	1+01	VARIES	10.5-10.5	VARIES	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
	1+01	10+25	VARIES	11.0-11.0	VARIES	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
	10+25	18+50	3.0	11.0-11.0	3.0	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
	18+50	31+00	VARIES	VARIES	VARIES	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
	31+00	45+85	VARIES	12.0-12.0	VARIES	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
	45+85	62+08	VARIES	VARIES	VARIES	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
US 5	U67+65	U71+34	VARIES	VARIES	VARIES	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
	U72+00	U77+55	VARIES	VARIES	VARIES	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
VT 25 MINOR ARTERIAL	62+08	65+75	VARIES	VARIES	VARIES	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
	65+75	72+80	VARIES	11.0-11.0	VARIES	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
	72+80	91+74	9.0	11.0-11.0	9.0	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
	91+74	95+00	VARIES	11.0-11.0	VARIES	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
	95+00	137+14	3.0	11.0-11.0	3.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	137+14	147+63	3.0	11.0-11.0	5.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	147+63	190+57	3.0	11.0-11.0	3.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	190+57	191+22	4.0	11.0-11.0	4.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	191+22	191+48	4.0	11.0-11.0	4.0	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY (BRIDGE 4)
	191+48	192+13	4.0	11.0-11.0	4.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	192+13	205+37	3.0	11.0-11.0	3.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	205+37	207+46	3.0	11.0-11.0	3.0	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY (BRIDGE 5)
	207+46	220+98	3.0	11.0-11.0	3.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	220+98	223+30	6.0	11.0-11.0	3.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	223+30	228+89	6.0	11.0-11.0	6.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	228+89	229+83	VARIES	11.0-11.0	6.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	229+83	234+45	7.0	11.0-11.0	6.0	1 1/4"	-	IVS	LEVEL AND OVERLAY
	234+45	234+63	7.0	11.0-11.0	6.0	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY (BRIDGE 6)
	234+63	236+40	7.0	11.0-11.0	6.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	236+40	238+15	6.0	11.0-11.0	VARIES	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	238+15	242+79	2.5	11.0-11.0	2.5	1 1/4"	-	IVS	
	242+79	269+94	3.0	11.0-11.0	3.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	269+94	272+07	6.0	11.0-11.0	3.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	272+07	314+90	3.0	11.0-11.0	3.0	1 1/4"	-	IVS	
	314+90	316+80	6.0	11.0-11.0	3.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	316+80	325+56	6.0	11.0-11.0	6.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	325+56	330+25	3.0	11.0-11.0	4.0	1 1/2"	1/2"	IVS	LEVEL AND OVERLAY
	330+25	333+07	3.0	11.0-11.0	4.0	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY
	333+07	334+50	2.0	11.0-11.0	3.0	1 1/4"	-	IVS	COLD PLANE AND OVERLAY (BRIDGE 9)
	334+50	336+66	VARIES	11.0-11.0	VARIES	1 1/2"	1/2"	IVS	COLD PLANE AND OVERLAY

10. ITEMS 604.412, AND 604.415 ARE ESTIMATED ITEMS AND SHALL BE PERFORMED AT LOCATIONS SHOWN ON THE ROADWAY LAYOUT SHEETS OR AS DIRECTED BY THE ENGINEER. ALL DI'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION MATCHES WITH THE SURROUNDING TERRAIN. DRAINAGE STRUCTURES CALLING FOR REHABILITATION HAVE BEEN DISTRIBUTED BETWEEN ITEMS 604.412 AND 604.415. FOR ESTIMATING PURPOSES THE DISTRIBUTION IS AS FOLLOWS: 604.412 80%, 604.415 20%.
11. COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICALS OR AS DENOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGIN/END AND AT ALL SIDE ROAD APPROACHES AS SHOWN ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER. ALL JOINTS SHALL BE SAW CUT, INCIDENTAL TO ITEM 210.10 COLD PLANING, BITUMINOUS PAVEMENT.
12. ALL NECESSARY SURFACE PREPARATION INVOLVING PATCHING, POT HOLE REPAIR, AND CRACK SEALING SHALL BE PERFORMED FOLLOWING COLD PLANING AND PRIOR TO PAVING. THE PATCHING OF ALL CRACKS GREATER THAN 1.0" AND POT HOLE REPAIR SHALL BE COMPLETED USING BITUMINOUS CONCRETE PAVEMENT IN ACCORDANCE WITH ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE D). ALL BRIDGE DECKS WITHIN THE PROJECT LIMITS SHALL ALSO RECEIVE CRACK SEALING AND RELATED SURFACE PREPARATION PRIOR TO PAVING. AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN INCLUDED TO COVER ALL COSTS ASSOCIATED WITH THIS WORK.
13. ALL GRAVEL PULLOFFS TO BE PAVED SHALL BE GRADED PRIOR TO PAVING WITH ITEM 608.15, POWER GRADER RENTAL OR AS DIRECTED BY THE ENGINEER AND PAVED WITH 2" OF ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
14. AN ESTIMATED QUANTITY OF ITEM 203.40 SHOULDER BERM REMOVAL HAS BEEN INCLUDED FOR THE REMOVAL OF BUILT UP SAND, SOD ETC ADJACENT TO THE SHOULDER, IN GUARDRAIL AREAS, TO ALLOW FREE DRAINAGE OFF THE SHOULDER.
15. INSTALLATION, COMPACTION, GRADING, AND CLEAN UP OF ITEM 402.13 AGGREGATE SHOULDERS, RAP AND ITEM 651.35 TOPSOIL, IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE OF EACH ITEM.
16. AN ESTIMATED QUANTITY OF ITEM 608.15 POWER GRADER RENTAL HAS BEEN INCLUDED FOR REMOVING BUILT UP SAND, SOD ETC. ADJACENT TO THE SHOULDER, IN NON-GUARDRAIL AREAS, TO ALLOW FREE DRAINAGE OFF THE SHOULDER.
17. ALL EDGES OF PAVEMENT ON MAINLINE SHALL CONFORM TO THE SAFETY EDGE DETAIL (SEE SHEET 9). ALL EDGES OF PAVEMENT AND ALL CURB AT GUARDRAIL LOCATIONS SHALL BE BACKED UP FULL HEIGHT PAID UNDER ITEM 402.13 AGGREGATE SHOULDERS, RAP.
18. 25 CUBIC YARDS OF ITEM 203.30 EARTH BORROW HAS BEEN INCLUDED AT EACH GUARDRAIL FLARE TO PROVIDE FOR FLARE CONSTRUCTION. THE GUARDRAIL FLARES SHALL BE CAPPED WITH AN ESTIMATED 3 INCH DEPTH OF DITCHING MATERIAL OR TOPSOIL UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ITEM 653.20 TEMPORARY EROSION MATTING SHALL BE PLACED ON SLOPES GREATER THAN 1:6 CREATED BY THE GUARDRAIL FLARE. THE QUANTITIES REFLECT 25 SY OF ITEM 653.20, TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL FLARE.
19. AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE ENGINEER.
20. ITEM 646.76 LINE STRIPING TARGETS SHALL BE PLACED AS OUTLINED IN THE VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION FOR THE PLACEMENT OF THE WHITE EDGE LINES AND YELLOW CENTER LINES.
21. INSTALL NEW SIGNS, AS SHOWN ON THE ROADWAY LAYOUT SHEETS, ON SQUARE STEEL SIGN POSTS. ALL SIGNING ON VT ROUTE 25 WAS REPLACED UNDER THE STATEWIDE SIGNING PROJECT STPG SIGN (29) UNLESS OTHERWISE NOTED ON THE PLANS.
22. BITUMINOUS CONCRETE PAVEMENT AT PUBLIC AND/OR PRIVATE AND PERMITTED DRIVES WHICH IS INSTALLED BY HAND SHALL BE PAID FOR UNDER ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES). BITUMINOUS CONCRETE MATERIAL PLACED BY MECHANICAL METHODS AT THESE LOCATIONS IS EXCLUDED. ALL OTHER BITUMINOUS MATERIALS PLACED WITHIN THE PROJECT LIMITS, WHETHER BY HAND OR MECHANICAL METHODS, SHALL BE PAID UNDER THE APPROPRIATE CONTRACT PAY ITEM FOR BITUMINOUS CONCRETE PAVEMENT.
23. STEEL BEAM GUARDRAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.
24. ASPHALTIC PLUG-TYPE JOINT, ITEM 516.10 BRIDGE EXPANSION JOINT, ASPHALTIC PLUG, SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS. SEE BRIDGE JOINT ASPHALTIC PLUG (STRUCTURES DETAIL SD-516.10)
- | | |
|---------------------------------------|--|
| BRIDGE #1 | TH 1 BRIDGE |
| 0+38 (MM 0.007) 21' ASPHALTIC JOINT | (CHELSEA RD) 319+95 LT 30' ASPHALTIC JOINT |
| BRIDGE # 5 | BRIDGE #9 |
| 205+37 (MM 3.890) 40' ASPHALTIC JOINT | 333+07 (MM 6.308) 34' ASPHALTIC JOINT |
| 207+46 (MM 3.929) 40' ASPHALTIC JOINT | 334+50 (MM 6.335) 34' ASPHALTIC JOINT |

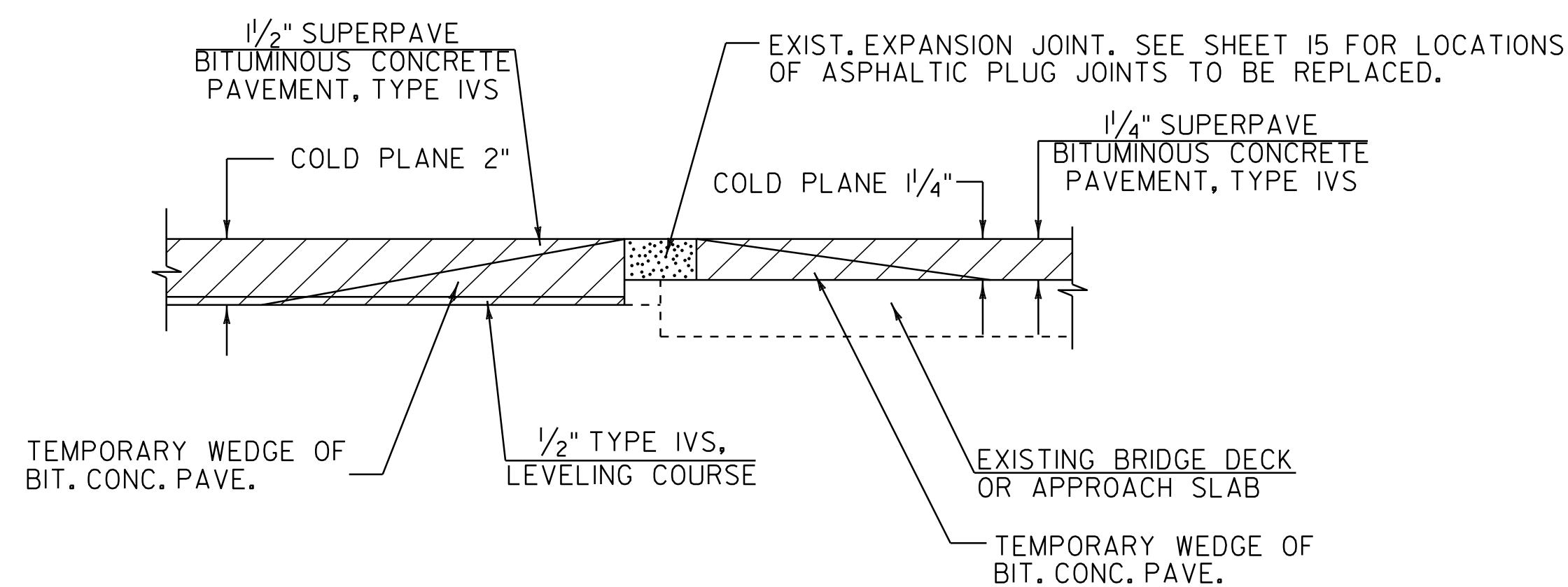
GENERAL NOTES SHEET

PROJECT NAME:	BRADFORD
PROJECT NUMBER:	STP 2917(I)
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:49
PROJECT LEADER: PTS	DRAWN BY: WWG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_15	SHEET 15 OF 105



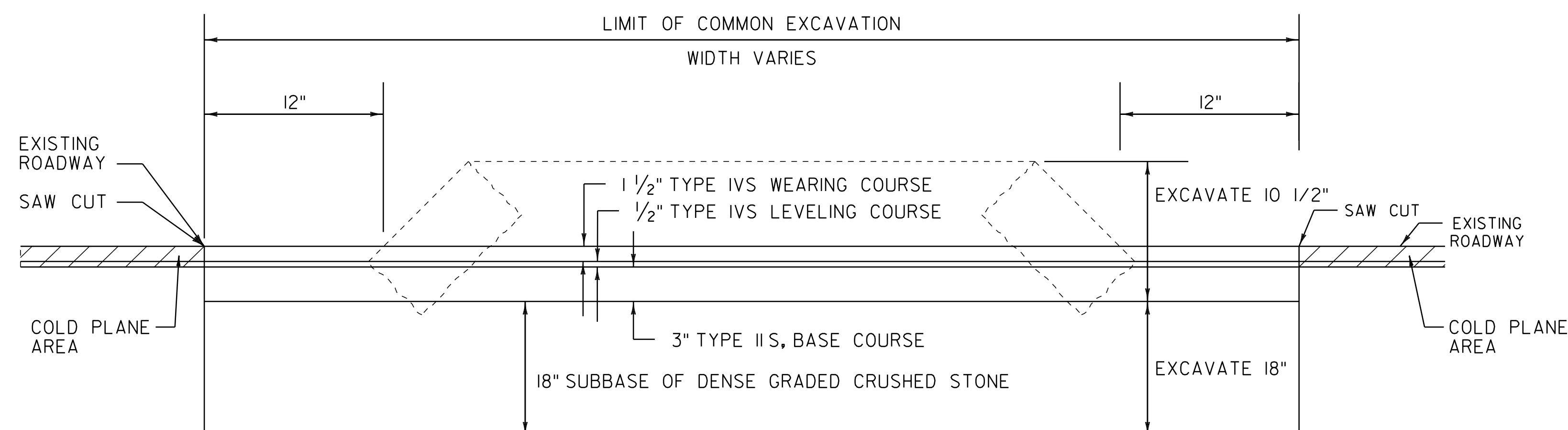
COLD PLANE AND OVERLAY TYPICAL SECTION

LOCATION
0+38 TO 95+00
330+25 TO 336+66



BRIDGE APPROACH & COLD PLANE DETAIL

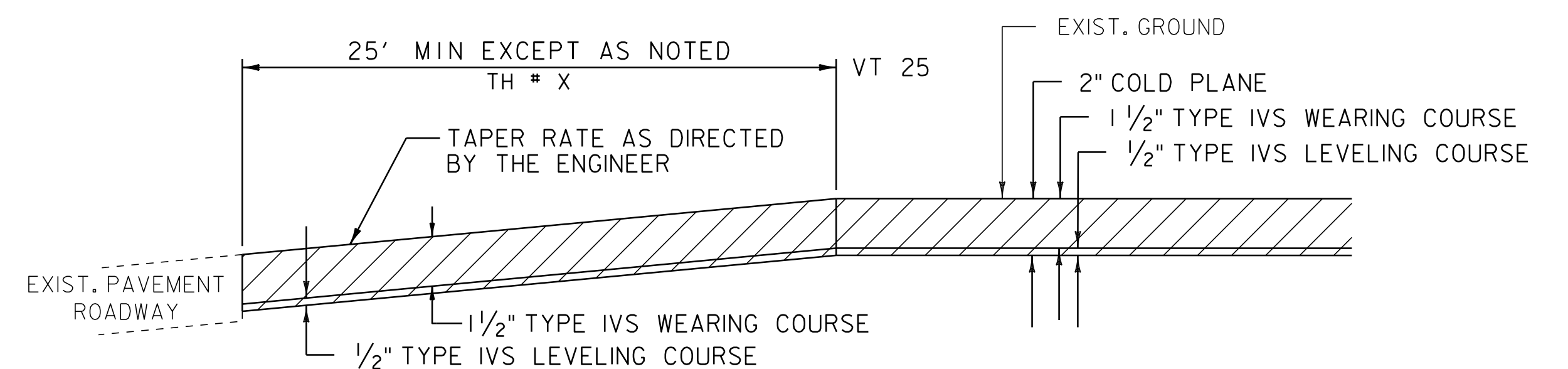
LOCATION
BRIDGE 9
333+07
334+50



RAISED ISLAND REMOVAL DETAIL

MAJOR COLLECTOR		LOCATION	MINOR ARTERIAL
24+51 TO	25+69	LT & RT	62+07 TO 64+27 LT & RT
26+57 TO	27+62	LT & RT	
48+17 TO	49+14	LT & RT	
49+93 TO	53+78	LT & RT	
54+36 TO	61+41	LT & RT	
U70+62 TO	U71+03	LT & RT	
U72+18 TO	U72+98	LT & RT	

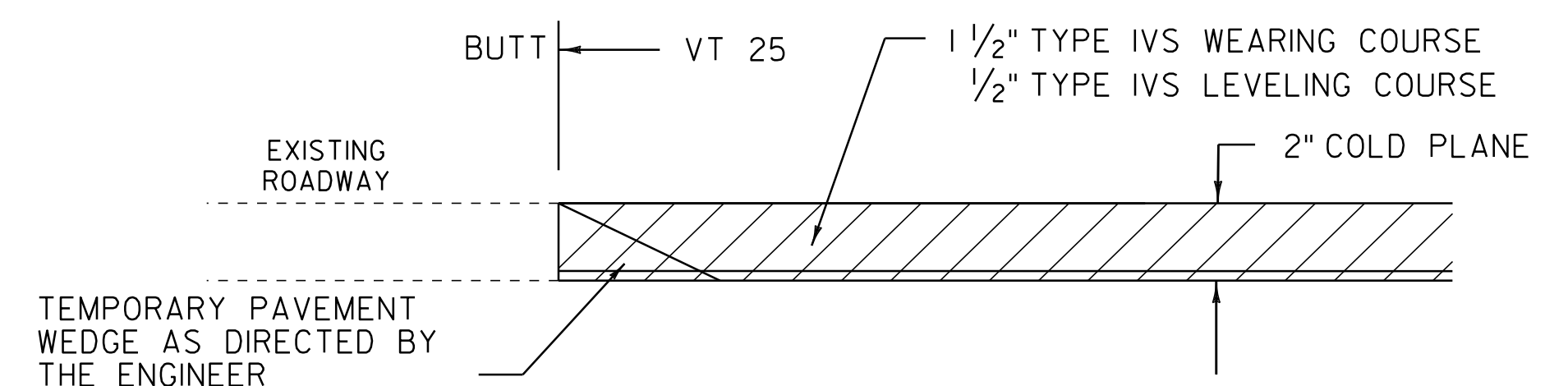
NOT TO SCALE



APPROACH AREA DETAIL FOR PAVED TOWN HIGHWAYS IN COLD PLANE AND OVERLAY AREAS

LOCATION

TH 47	-	9+65	LT (INDUSTRIAL DRIVE)
TH 50	-	36+39	LT (SADDLEBACK ROAD)
TH 27	-	49+46	RT (OLD CREAMERY ROAD)
RAMP A	-	53+73	LT (I-91 NB OFF RAMP)
RAMP B	-	51+98	RT (I-91 NB ON RAMP)
RAMP C	-	62+08	RT (I-91 SB OFF RAMP)
RAMP D	-	62+08	LT (I-91 B ON RAMP)
TH 2	-	91+96	LT (SOUTH ROAD)
TH 8	-	332+03	RT (FLANDERS BROOK ROAD)



APPROACH AREA DETAIL - MAINLINE IN COLD PLANE AREAS

LOCATION

0+38
336+66

PROJECT TYPICAL SHEET 1

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

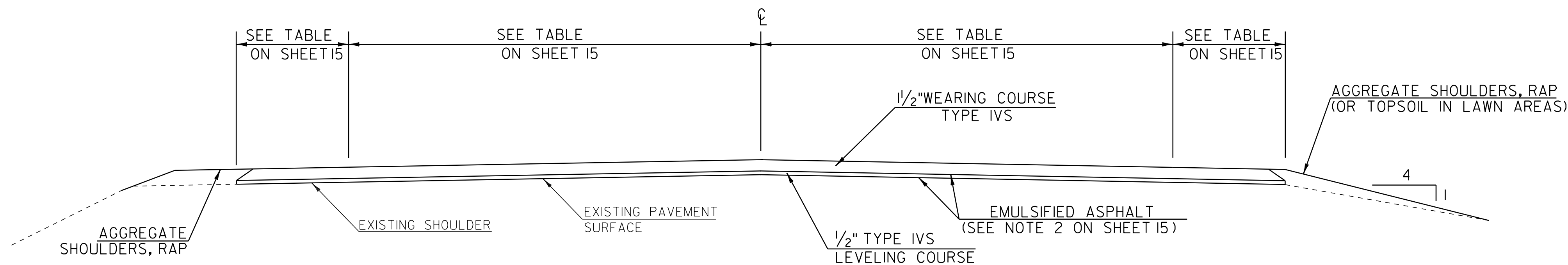
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PLOT DATE: 03-SEP-2014 12:49

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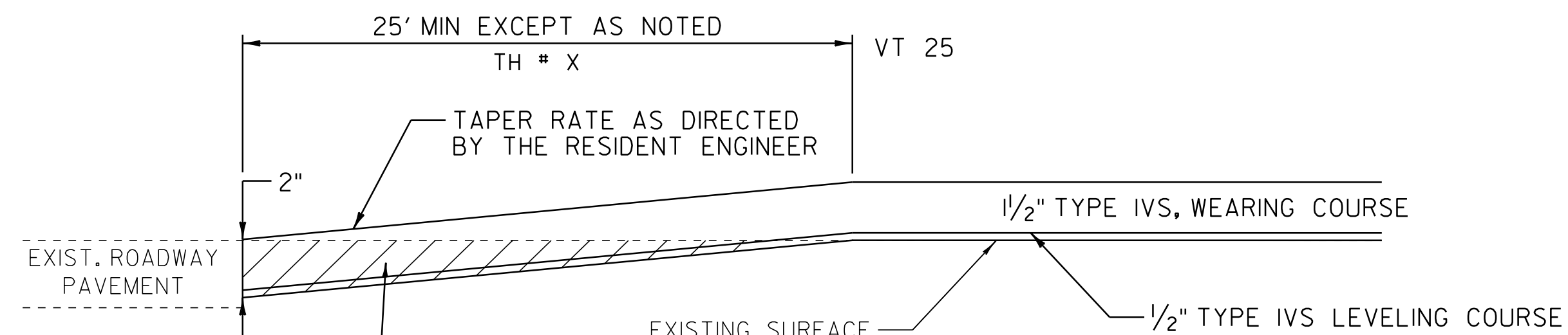
CHECKED BY: PTS

SHEET 16 OF 105



OVERLAY TYPICAL SECTION

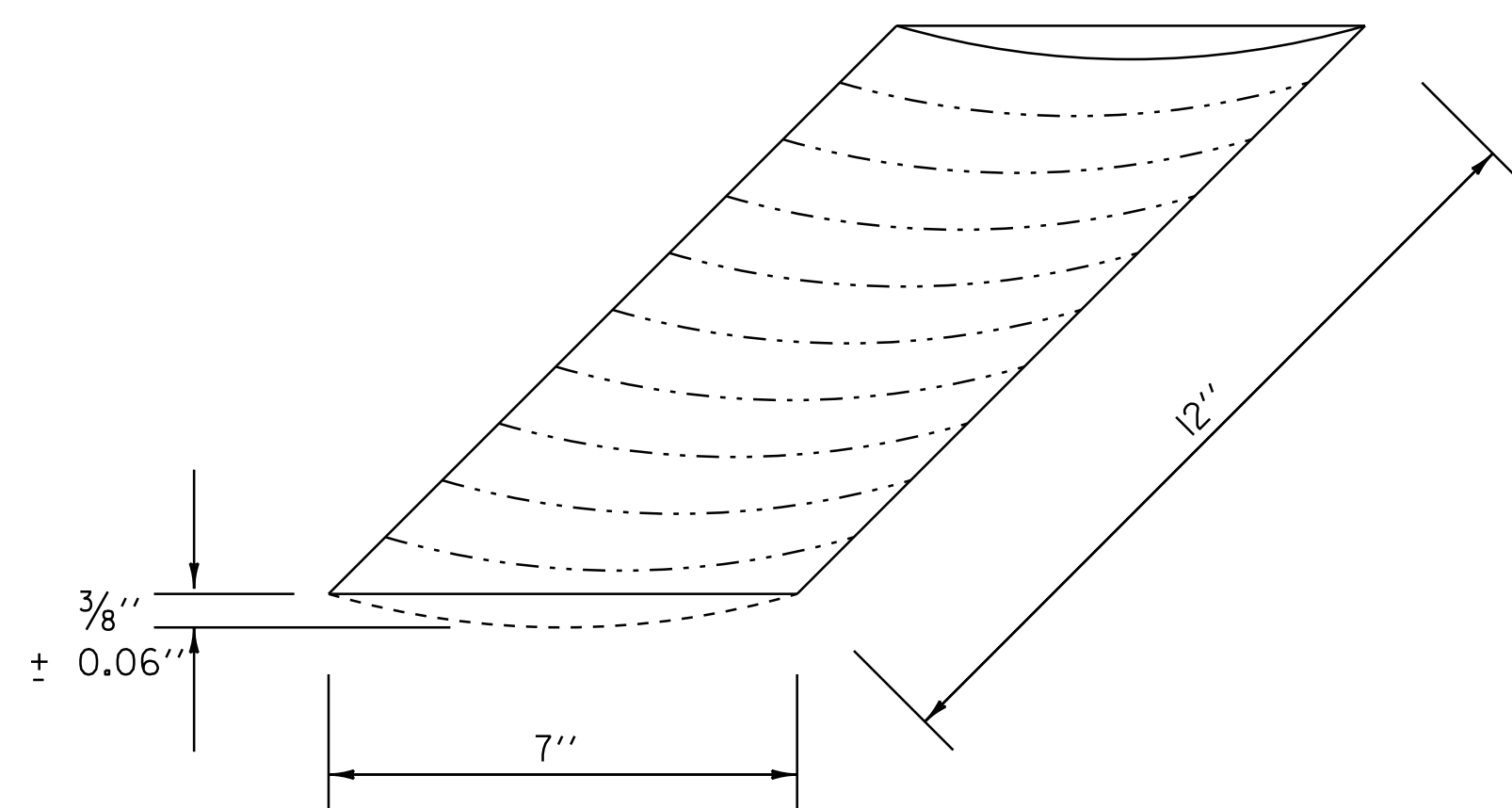
LOCATION
95+00 TO 330+25



APPROACH AREA DETAIL FOR PAVED TOWN HIGHWAYS IN LEVEL AND OVERLAY AREAS

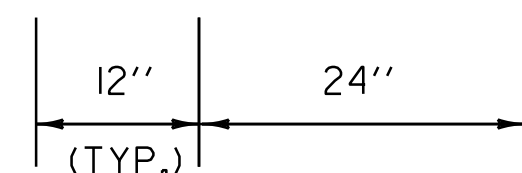
LOCATION

TH 23 - 203+66 LT (KENYAN ROAD)
TH 19 - 234+88 RT (CHASE HOLLOW ROAD)
TH 11 - 304+43 RT (WRIGHTS MT ROAD)
TH 1 - 319+89 LT (CHELSEA ROAD)



RUMBLE STRIP DETAIL

4"										YL
4"										YL
4"										YL



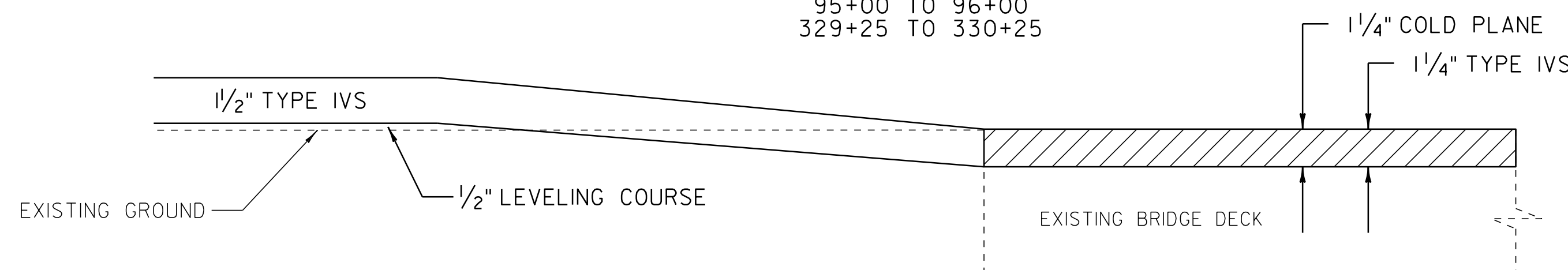
RUMBLE STRIP LAYOUT



APPROACH AREA DETAIL - MAINLINE IN LEVEL AND OVERLAY AREAS

LOCATION

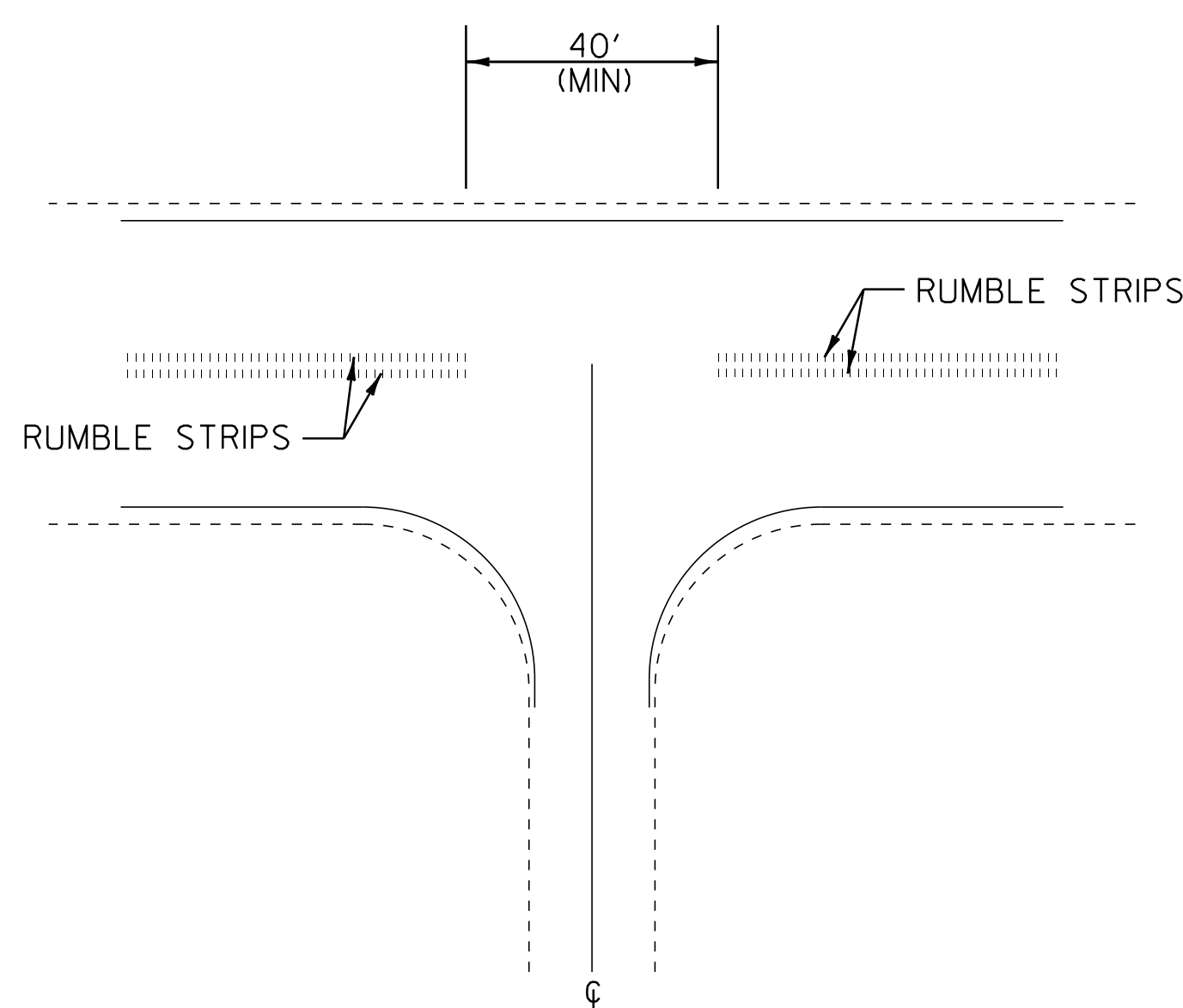
95+00 TO 96+00
329+25 TO 330+25



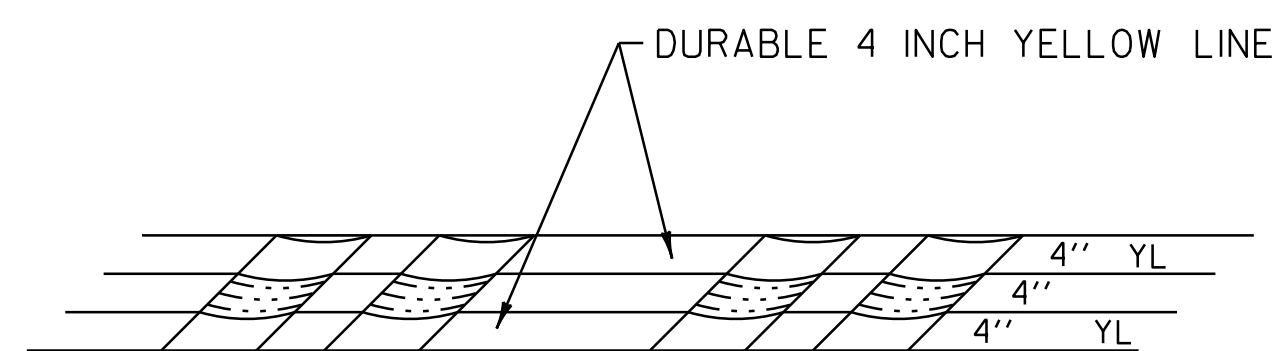
BRIDGE APPROACH DETAIL IN LEVEL AND OVERLAY AREAS

LOCATION

BRIDGE 4 - 191+22 191+48
BRIDGE 5 - 205+37 207+46
BRIDGE 6 - 234+45 234+63



RUMBLE STRIP INTERSECTION DETAIL



RUMBLE STRIP PAVEMENT MARKINGS DETAIL

RUMBLE STRIP NOTES

1. RUMBLE STRIPS NOT TO EXTEND BEYOND CENTERLINE WHEN CENTERLINE IS A DOUBLE YELLOW LINE, WITH OR WITHOUT A PASSING ZONE.
2. RUMBLE STRIP TO BE PLACED ALONG DOUBLE YELLOW LINE OF PAINTED ISLAND.
3. RUMBLE STRIP TO STOP 20 FEET PRIOR TO THE CENTERLINE OF AN INTERSECTION.

NOT TO SCALE

PROJECT TYPICAL SHEET 2

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10b236_17

PLOT DATE: 03-SEP-2014 12:49

DRAWN BY: WWG

CHECKED BY: PTS

SHEET 17 OF 105

STATE OF VERMONT AGENCY OF TRANSPORTATION											QUANTITY SHEET 1							
SUMMARY OF ESTIMATED QUANTITIES											TOTALS		DESCRIPTIONS					
					ROADWAY (MAJOR COLLECTOR)	TRAINING	RAILROAD- BID ITEMS	FULL C.E. ITEMS	ROADWAY (MINOR ARTERIAL)	BRIDGE (MINOR ARTERIAL)	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND		
					1000				285		1285		CY	COMMON EXCAVATION	203.15	21.1		
					300				1300		1600		CY	EARTH BORROW	203.30	-		
									740		740		LF	SHOULDER BERM REMOVAL	203.40	4		
					0.5				0.5		1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-		
					36200				18000		54200		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	169		
					2500				500		3000		LF	MILLED RUMBLE STRIPS	213.10	20		
					630				180		810		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	12		
					720				3060		3780		TON	SUBBASE, RAP	301.40	17		
					450				2100		2550		TON	AGGREGATE SHOULDERS, RAP	402.13	15		
					1				1		2		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-		
					4750				11600		16350		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	92		
					1				1		2		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-		
					1				1		2		LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-		
					1				1		2		LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	-		
					1				1		2		LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	-		
										200	200		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	1		
										115	115		LF	REMOVAL OF EXISTING RAILING	525.10	2.5		
									50		50		LF	BRIDGE RAILING REPAIR, TYPE I	525.50	-		
									75		75		LF	BRIDGE RAILING REPAIR, TYPE III	525.60	12.5		
									35		35		CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST.		
					8				3		11		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	EST.		
					2				1		3		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	EST.		
					25				105		130		HR	POWER GRADER RENTAL	608.15	EST.		
					90				415		505		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.		
					25				105		130		HR	POWER BROOM RENTAL, TYPE I	608.30	EST.		
					180				830		1010		HR	TRUCK RENTAL	608.37	EST.		
					90				415		505		HR	LOADER RENTAL, TYPE I	608.40	EST.		
					80						80		CY	STONE FILL, TYPE I	613.10	1		
									7		7		CY	STONE FILL, TYPE II	613.11	1		
									645		645		LF	TREATED TIMBER CURB	616.35	4		
					15						15		LF	REMOVING AND RESETTING CURB	616.40	3		
					3060				440		3500		LF	REMOVAL OF EXISTING CURB	616.41	8		
					10				115		125		EACH	YIELDING MARKER POSTS	619.17	EST.		
					2950				7450		10400		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	80		
					325				6550		6875		LF	STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS	621.205	39		
									75		75		LF	STEEL BEAM GUARDRAIL, GALVANIZED/NESTED W/8 FEET POSTS	621.207	-		
					75				275		350		LF	HD STEEL BEAM GUARDRAIL, GALVANIZED	621.21	18.6		
					12				52		64		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60	-		
									2		2		EACH	GUARDRAIL APPROACH SECTION, GALVANIZED TYPE I	621.70	-		
									2		2		EACH	GUARDRAIL APPROACH SECTION, GALVANIZED TYPE II	621.71	-		
SUMMARY OF ESTIMATED QUANTITIES											TOTALS		DESCRIPTIONS					
					ROADWAY (MAJOR COLLECTOR)	TRAINING	RAILROAD- BID ITEMS	FULL C.E. ITEMS	ROADWAY (MINOR ARTERIAL)	BRIDGE (MINOR ARTERIAL)	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND		
					1000				285		1285		CY	COMMON EXCAVATION	203.15	21.1		
					300				1300		1600		CY	EARTH BORROW	203.30	-		
									740		740		LF	SHOULDER BERM REMOVAL	203.40	4		
					0.5				0.5		1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-		
					36200				18000		54200		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	169		
					2500				500		3000		LF	MILLED RUMBLE STRIPS	213.10	20		
					630				180		810		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	12		
					720				3060		3780		TON	SUBBASE, RAP	301.40	17		
					450				2100		2550		TON	AGGREGATE SHOULDERS, RAP	402.13	15		
					1				1		2		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-		
					4750				11600		16350		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	92		
					1				1		2		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-		
					1				1		2		LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-		
					1				1		2		LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	-		
					1				1		2		LU	LONGITUDINAL JOINT COMPACTION PAY ADJUSTMENT (N.A.B.I.)	490.34	-		
										200	200		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	1		
										115	115		LF	REMOVAL OF EXISTING RAILING	525.10	2.5		
									50		50		LF	BRIDGE RAILING REPAIR, TYPE I	525.50	-		
									75		75		LF	BRIDGE RAILING REPAIR, TYPE III	525.60	12.5		
									35		35		CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST.		
					8				3		11		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	EST.		
					2				1		3		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	EST.		
					25				105		130		HR	POWER GRADER RENTAL	608.15	EST.		
					90				415		505							

QUANTITY SHEET 2

[illegible]

STATE OF VERMONT AGENCY OF TRANSPORTATION											QUANTITY SHEET 3									
SUMMARY OF ESTIMATED QUANTITIES											TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
					ROADWAY (MAJOR COLLECTOR)	TRAINING	RAILROAD- BID ITEMS	FULL C.E. ITEMS	ROADWAY (MINOR ARTERIAL)	BRIDGE (MINOR ARTERIAL)	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITY	UNIT	ITEMS	
														BEGIN OPTION FF						
					1460				390		1850		LF	DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC	646.452	22				
					1460				390		1850		LF	DURABLE 8 INCH YELLOW LINE, EPOXY PAINT	646.453	22				
					1460				390		1850		LF	DURABLE 8 INCH YELLOW LINE, POLYUREA	646.454	22				
														END OPTION FF						
														BEGIN OPTION GG						
					240				140		380		LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	8				
					240				140		380		LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.483	8				
					240				140		380		LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	8				
														END OPTION GG						
														BEGIN OPTION HH						
					132				24		156		EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-				
					132				24		156		EACH	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.493	-				
					132				24		156		EACH	DURABLE LETTER OR SYMBOL, POLYUREA	646.494	-				
														END OPTION HH						
														BEGIN OPTION II						
					2						2		EACH	DURABLE RAILROAD CROSSING SYMBOL, THERMOPLASTIC	646.512	-				
					2						2		EACH	DURABLE RAILROAD CROSSING SYMBOL, EPOXY PAINT	646.513	-				
					2						2		EACH	DURABLE RAILROAD CROSSING SYMBOL, POLYUREA	646.514	-				
														END OPTION II						
					30400				55000		85400		LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	139				
					34120				55100		89220		LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	143				
					2100						2100		LF	TEMPORARY 6 INCH WHITE LINE, PAINT	646.622	78				
					1600						1600		LF	TEMPORARY 6 INCH YELLOW LINE, PAINT	646.632	22				
					225						225		LF	TEMPORARY 8 INCH WHITE LINE, PAINT	646.642	11				
					475				140		615		LF	TEMPORARY 24 INCH STOP BAR, PAINT	646.682	7				
					156				28		184		EACH	TEMPORARY LETTER OR SYMBOL, PAINT	646.692	-				
					4						4		EACH	TEMPORARY RAILROAD CROSSING SYMBOL, PAINT	646.712	-				
					675				2675		3350		EACH	LINE STRIPING TARGETS	646.76	EST.				
					720						720		LF	PAINTED CURB	646.81	6				
					360				30		390		SY	GEOTEXTILE UNDER STONE FILL	649.31	13				
					5				75		80		LB	SEED	651.15	EST.				
					40				590		630		LB	FERTILIZER	651.18	EST.				
					1				3		4		TON	AGRICULTURAL LIMESTONE	651.20	EST.				
					1				3		4		TON	HAY MULCH	651.25	EST.				
					5				20		25		CY	TOPSOIL	651.35	EST.				
					420				6830		7250		SY	TEMPORARY EROSION MATTING	653.20	45				
					30						30		SF	TRAFFIC SIGNS, TYPE A	675.20	0.86				
					90						90		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-				
					40				6		46		EACH	REMOVING SIGNS	675.50	-				
																	PROJECT NAME: BRADFORD			
																	PROJECT NUMBER: STP 2917(1)			
																	FILE NAME: pl0b236.dgn			
																	PLOT DATE: 03-SEP-2014 12:49			
																	PROJECT LEADER: PTS			
																	DRAWN BY: WWG			
																	DESIGNED BY: NLL			
																	CHECKED BY: PTS			
																	IPARM FILE NAME: pl0b236_20			
																	SHEET 20 OF 105			

QUANTITY SHEET 4

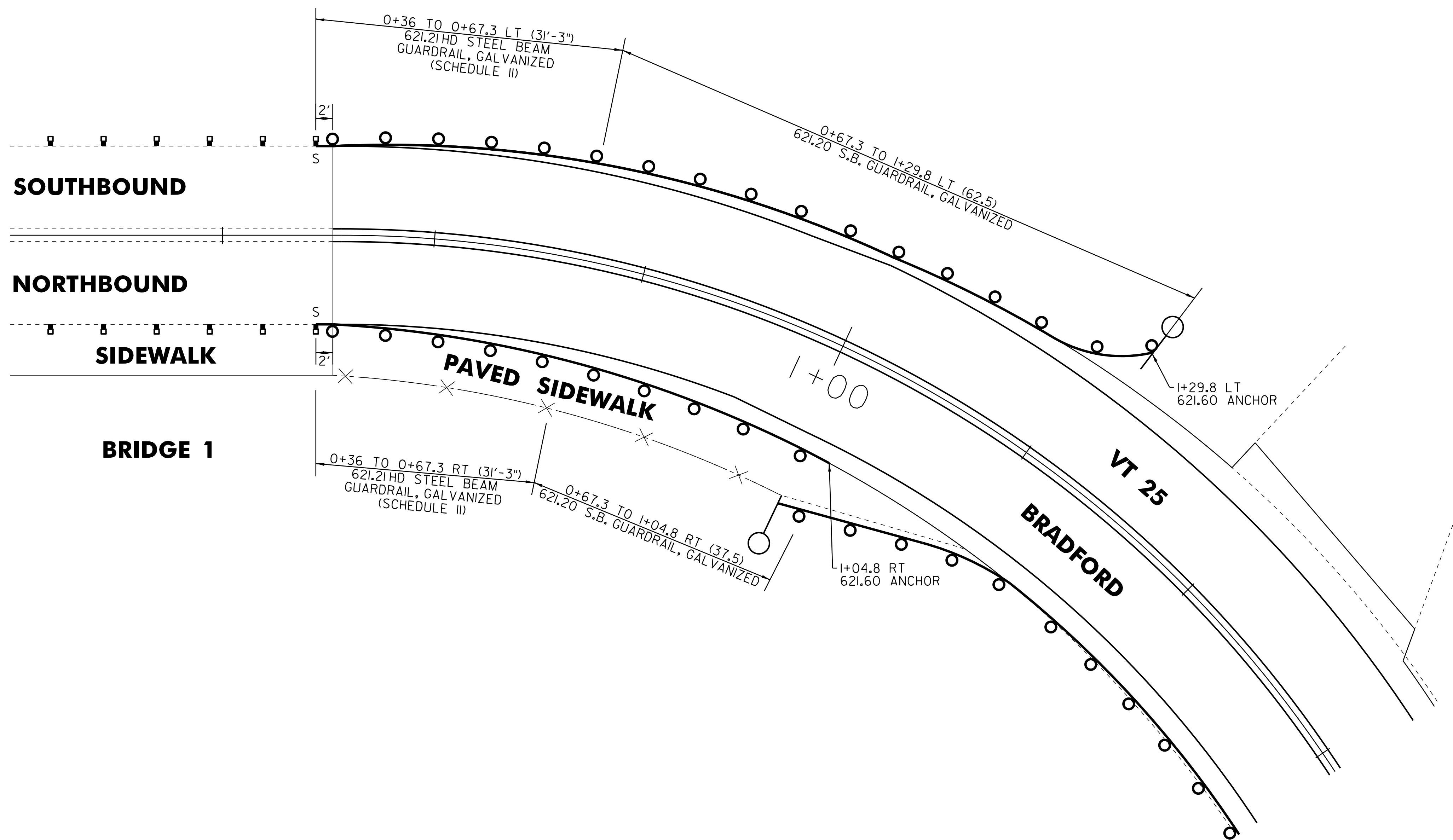
[illegible]

[illegible]

LOCATION			DROP INLETS		GUARDRAIL																		REMARKS	
STATION	STATION	POS.	604.412	604.415	525.10	525.50	525.60	616.35	621.20	621.205	621.207	621.21	621.60	621.70	621.71	621.76	621.77	621.80	621.81	676.10	676.12			
					REMOVAL OF EXIST. BRIDGE RAILING	BRIDGE RAILING REPAIR, TYPE I	BRIDGE RAILING REPAIR, TYPE II	TREATED TIMBER CURB								REPLACE GUARDRAIL BEAM UNIT	REMOV. & DISP. OF GUARDRAIL	REMOV. & DISP. OF GUIDE POSTS	DEL IN. W/STEEL POST	REMOVAL OF EXIST. DEL IN.				
			EACH	EACH	LF	LF	LF	LF					EACH	EACH	EACH	EACH	EACH	LF	EACH	EACH	EACH			
MINOR ARTERIAL																								
62+08.0	336+56.0	LT/RT	3	1												11	5							
72+87.0	74+55.0	RT																168.0						
72+30.0	74+80.0	RT							254.0				2							2	2			
73+29.0	74+96.0	LT																167.0						
72+70.0	75+20.0	LT							254.0				2							2	2			
75+52.0	79+60.0	RT																408.0						
75+52.0	79+64.5	RT								416.5			2							2	2			
75+70.0	79+00.0	LT																330.0						
75+70.0	77+20.0	LT							152.0				1							1	1			
77+20.0	79+07.5	LT								189.5			1							1	1			
80+04.0	80+58.0	RT																54.0						
95+49.0	99+88.0	RT																439.0						
95+49.0	100+24.0	RT								479.0			2							2	2			
95+55.0	99+55.0	LT																400.0						
95+55.0	99+55.0	LT							404.0				2							2	2			
106+15.0	116+07.0	RT																992.0						
106+15.0	116+05.0	RT								994.0			2							2	2			
120+21.0	122+49.0	RT																228.0						
120+21.0	121+46.0	RT											1							1	1			
121+46.0	122+46.0	RT							102.0				1							1	1			
121+51.0	122+37.0	LT																86.0						
121+51.0	122+38.5	LT							91.5				2							2	2			
124+13.0	130+80.0	RT																667.0						
124+13.0	127+38.0	RT							327.0				1							1	1			
127+38.0	128+75.5	RT								167.5														
128+75.5	130+88.0	RT							214.5				1							1	1			
137+62.0	147+63.0	RT																1001.0						
137+13.0	147+63.0	RT							1054.0				2							2	2			
160+15.0	178+69.0	RT																1854.0						
160+15.0	178+65.0	RT							1854.0				2							2	2			
BRIDGE 4																								
190+60.0	191+07.0	RT																47.0						
190+56.8	190+81.8	RT							27.0				1							1	1			
190+81.8	191+06.8	RT										25.0												
191+06.8	191+31.8	RT			25.0		25.0																	
191+32.0	191+96.0	RT																64.0						
191+31.8	191+63.0	RT										31.2												
191+63.0	192+00.5	RT							39.5				1							1	1			
BRIDGE 4																								
190+76.0	191+38.0	LT																62.0						
190+69.5	191+07.0	LT							39.5				1							1	1			
191+07.0	191+38.3	LT										31.3												
191+38.3	191+75.8	LT			37.5		37.5																	
191+76.0	192+10.0	LT																34.0						
191+75.8	192+00.8	LT										25.0												
192+00.8	192+13.3	LT							14.5				1							1	1			
			</																					

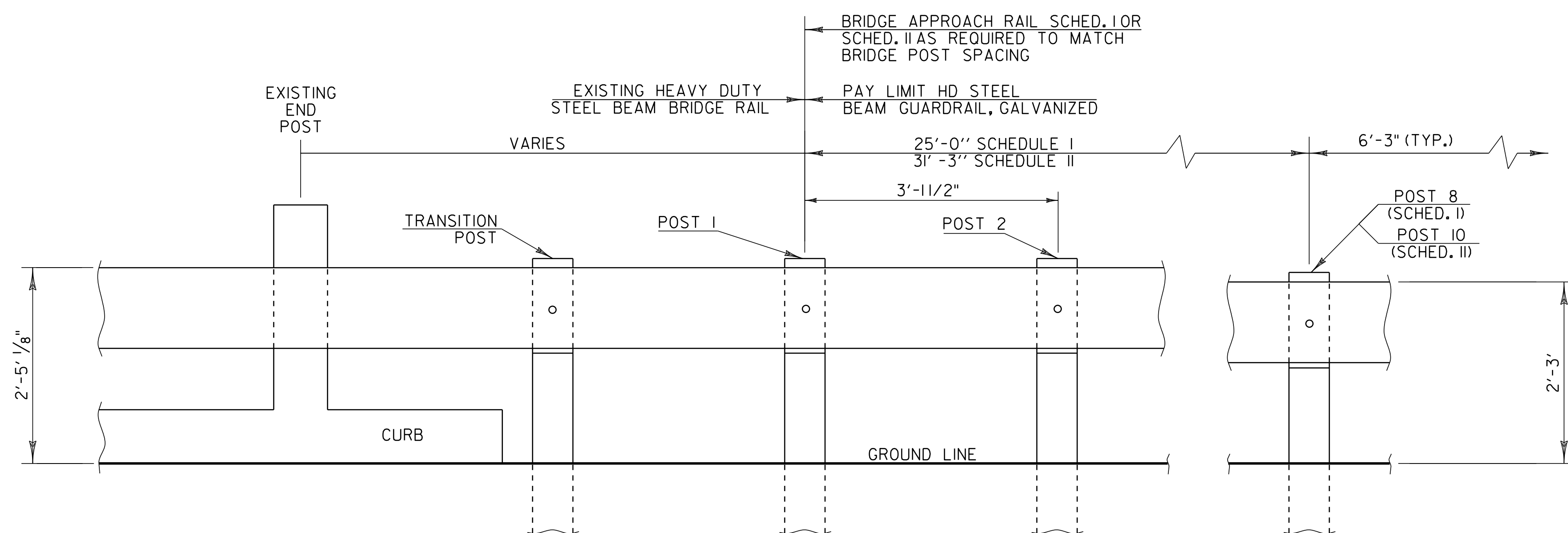
LOCATION			DROP INLETS		GUARDRAIL																		REMARKS	
STATION	STATION	POS.	604.412	604.415	525.10	525.50	525.60	616.35	621.20	621.205	621.207	621.21	621.60	621.70	621.71	621.76	621.77	621.80	621.81	676.10	676.12			
					REMOVAL OF EXIST. BRIDGE RAIL IN G	BRIDGE RAIL IN G REPAIR, TYPE 1	BRIDGE RAIL IN G REPAIR, TYPE 11	TREATED TIMBER CURB							REPLACE GUARDRAIL BEAM UNIT	REMV. & DISP. OF GUARDRAIL	REMV. & DISP. OF GUIDE POSTS	DEL.IN. W/STEEL POST	REMOVAL OF EXIST. DEL.IN.					
			EACH	EACH	LF	LF	LF	LF					EACH	EACH	EACH	EACH	EACH	LF	EACH	EACH	EACH			
BRIDGE 5																								
203+33.0	205+22.0	RT																189.0						
203+34.5	204+72.0	RT							139.5					1						1	1			
204+72.0	205+22.0	RT												1										
205+22.0	207+32.0	RT																						
207+32.0	208+06.0	RT																74.0						
207+32.0	207+44.5	RT													1									
207+44.5	208+07.0	RT							64.5					1						1	1			
BRIDGE 5																								
204+08.0	205+51.0	LT																143.0						
204+13.5	205+38.5	LT							127.0					1						1	1			
205+38.5	205+51.0	LT													1									
205+51.0	207+60.0	LT																						
207+60.0	208+84.0	LT																124.0						
207+60.0	208+10.0	LT														1								
208+10.0	208+85.0	LT							77.0					1						1	1			
225+67.0	229+47.0	LT																380.0						
225+70.0	227+57.5	LT								189.5				1						1	1			
227+57.5	229+45.0	LT							189.5					1						1	1			
BRIDGE 6																								
233+43.0	234+35.0	RT																92.0						
233+35.0	234+10.0	RT							77.0					1						1	1			
234+10.0	234+35.0	RT										25.0												
234+35.0	234+60.0	RT			25.0	25.0																		
234+60.0	234+96.0	RT																36.0						
234+60.0	234+81.0	RT										25.0												
234+81.0	234+96.0	RT							27.0				1											
BRIDGE 6																								
233+61.0	234+48.0	LT																87.0						
233+60.5	234+23.0	LT							64.5				1							1	1			
234+23.0	234+48.0	LT										25.0												
234+48.0	234+73.0	LT			25.0	25.0																		
234+73.0	235+51.0	LT																78.0						
234+73.0	234+98.0	LT										25.0												
234+98.0	235+48.0	LT							52.0				1							1	1			
238+76.0	243+47.0	LT																471.0						
236+87.5	241+37.5	LT								452.0			1							1	1			
241+37.5	244+00.0	LT							264.5				1							1	1			
243+48.0	244+48.0	RT																			11			
246+72.0	252+57.0	LT																585.0						
246+72.0	250+22.0	LT								352.0			1							1	1			
250+22.0	252+59.5	LT							239.5				1							1	1			
269+94.0	271+57.0	LT																163.0						
269+94.0	272+06.5	LT							216.5				2							2	2			
278+16.0	291+62.0	LT																1346.0						
278+16.0	291+66.0	LT								1354.0			2											
293+90.0	311+81.0	LT																1791.0						
293+87.0	294+24.5	LT								39.5			1							1	1			
294+24.5	294+62.0	LT									37.5													
294+62.0	311+87.0	LT								1727.0			1							1	1			

[illegible]



BRIDGE APPROACH RAILING

WHEN A RAIL PANEL SPLICE OCCURS AT POST NO. 1
USE SCHEDULE I FOR APPROACH RAILING. WHEN A
RAIL PANEL SPLICE OCCURS AT THE BRIDGE END
POST USE SCHEDULE II FOR APPROACH RAILING.



BRIDGE APPROACH RAILING

SCHEDULE I		
POST NO.	SPACING	PAYMENT FACTOR
1	3'-1.5"	1.4 x 12'-6"
2	3'-1.5"	
3	3'-1.5"	
4	3'-1.5"	
5	4'-2"	1.2 x 12'-6"
6	4'-2"	
7	4'-2"	
8	4'-2"	
9	6'-3" (TYP.)	1.0 (TYP.)

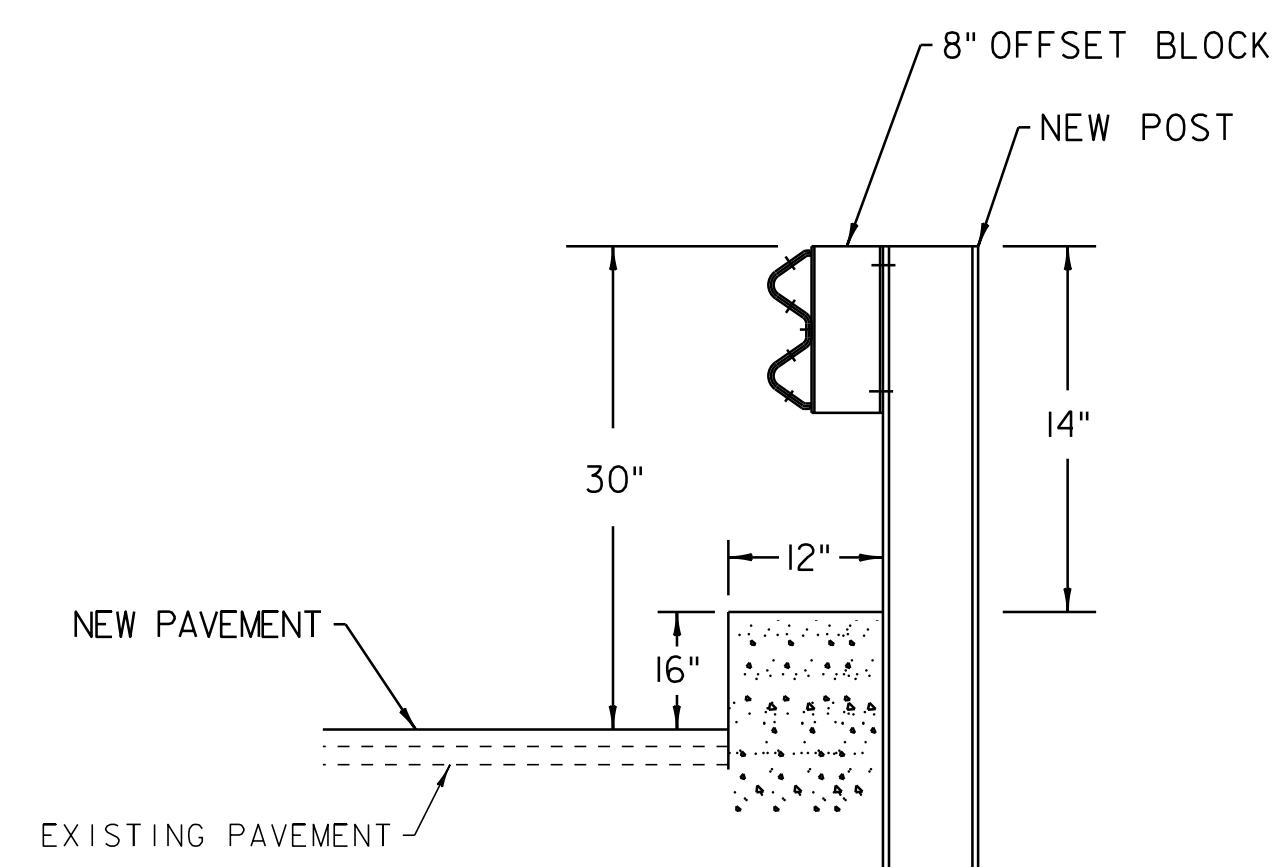
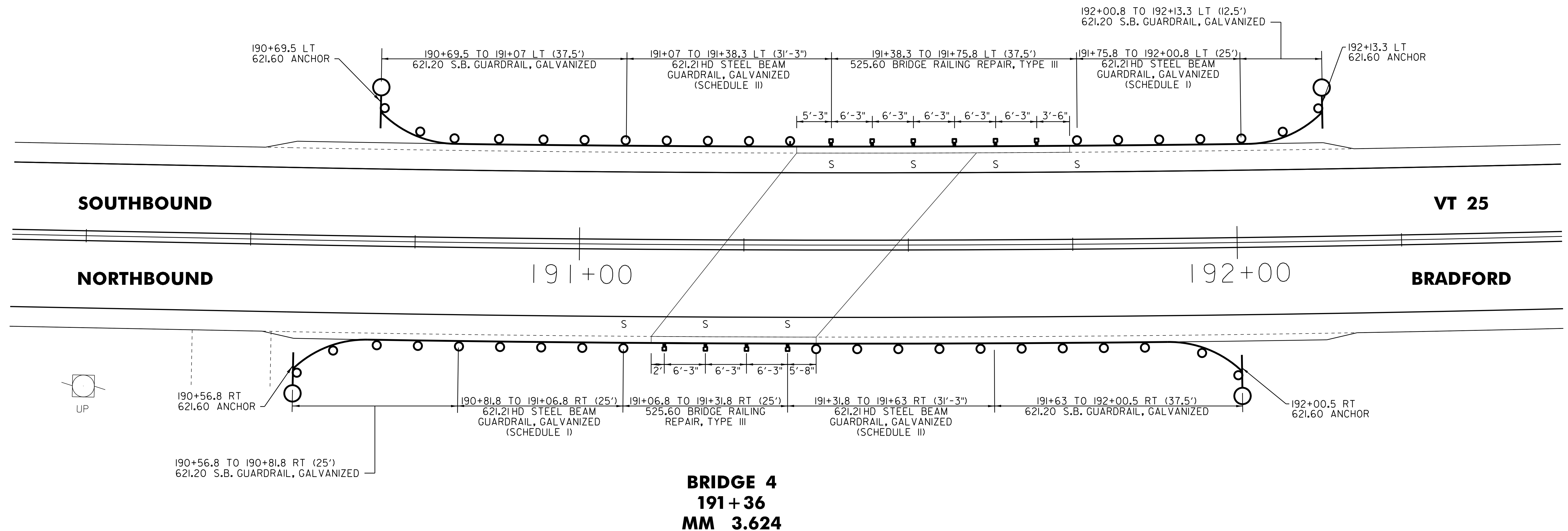
SCHEDULE II		
POST NO.	SPACING	PAYMENT FACTOR
1	3'-1.5"	1.4 x 18'-9"
2	3'-1.5"	
3	3'-1.5"	
4	3'-1.5"	
5	3'-1.5"	1.2 x 12'-6"
6	3'-1.5"	
7	4'-2"	
8	4'-2"	
9	4'-2"	1.0 (TYP.)
10	4'-2"	
11	6'-3" (TYP.)	

LEGEND
S = SPLICE
—○ = DELINEATOR

NOT TO SCALE

BRIDGE DETAIL SHEET 1

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:49
PROJECT LEADER: PTS	DRAWN BY: WWG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_26	SHEET 26 OF 105



LEGEND
S = SPLICE
—○ = DELINEATOR

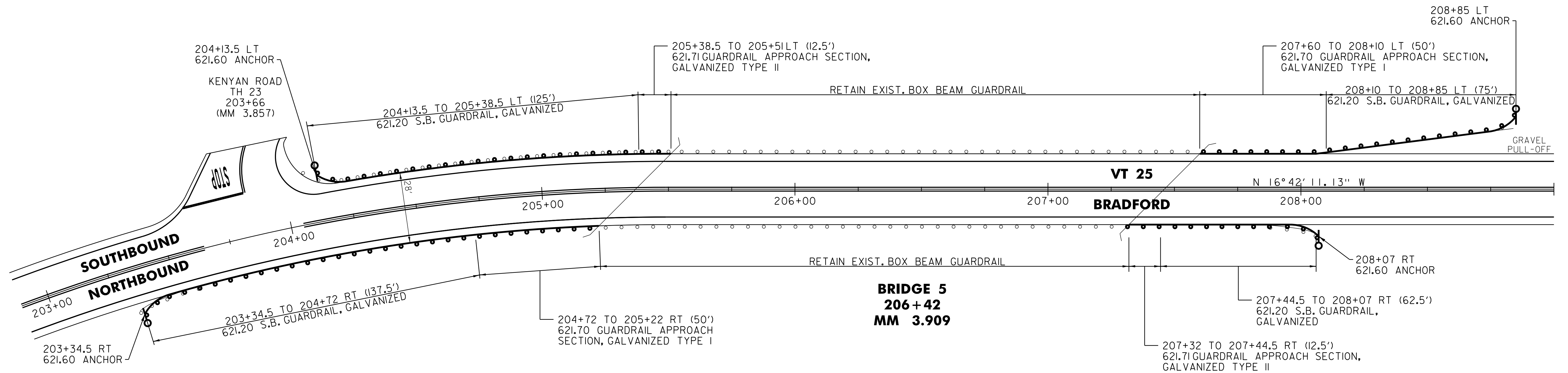
BRIDGE DETAIL SHEET 2

PROJECT NAME: BRADFORD
PROJECT NUMBER: STP 2917(I)

FILE NAME: p10b236.dgn
PROJECT LEADER: PTS
DESIGNED BY: NLL
IPARM FILE NAME: p10b236_27

PLOT DATE: 03-SEP-2014 12:49
DRAWN BY: WWG
CHECKED BY: PTS
SHEET 27 OF 105

NOT TO SCALE



NOT TO SCALE

LEGEND
S = SPLICE
—○ = DELINEATOR

BRIDGE DETAIL SHEET 3

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(1)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

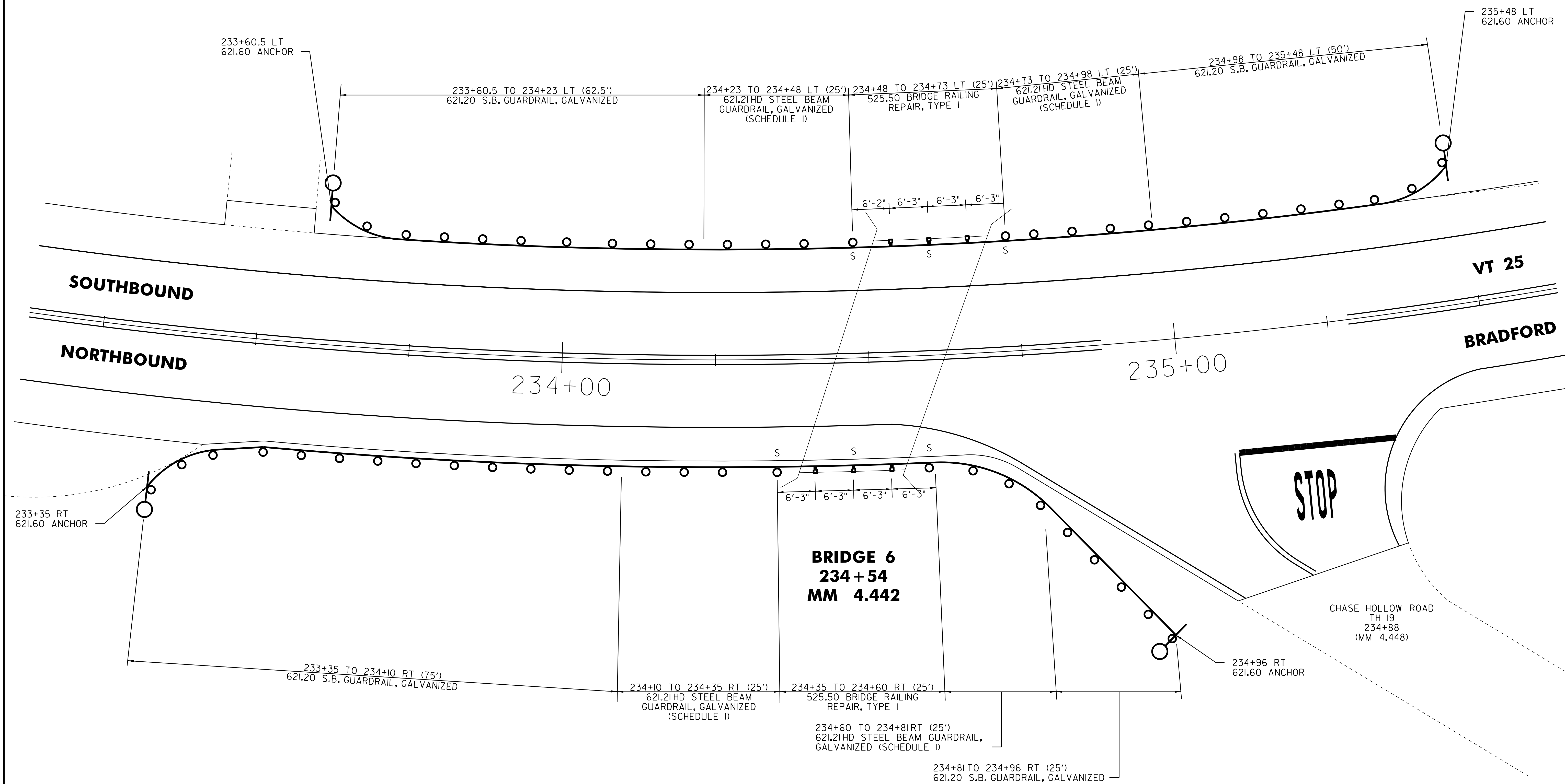
IPARM FILE NAME: p10b236_28

PLOT DATE: 03-SEP-2014 12:49

DRAWN BY: WWG

CHECKED BY: PTS

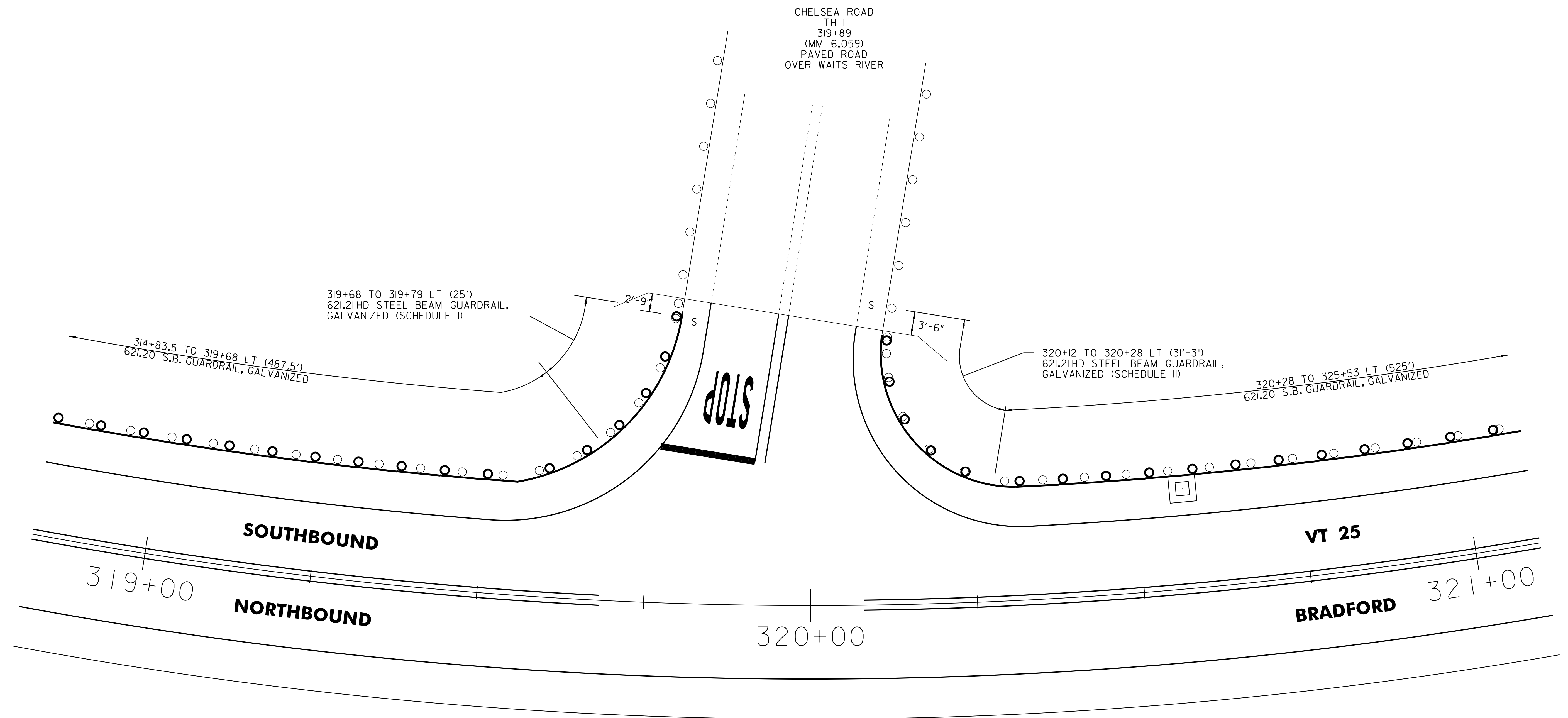
SHEET 28 OF 105



NOT TO SCALE

LEGEND
S = SPLICE
—○ = DELINEATOR

BRIDGE DETAIL SHEET 4	
PROJECT NAME:	BRADFORD
PROJECT NUMBER:	STP 2917(1)
FILE NAME:	pl0b236.dgn
PROJECT LEADER:	PTS
DESIGNED BY:	NLL
IPARM FILE NAME:	pl0b236_29
PLOT DATE:	03-SEP-2014 12:49
DRAWN BY:	WWG
CHECKED BY:	PTS
SHEET	29 OF 105



NOT TO SCALE

LEGEND
S = SPLICE

BRIDGE DETAIL SHEET 5

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(1)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

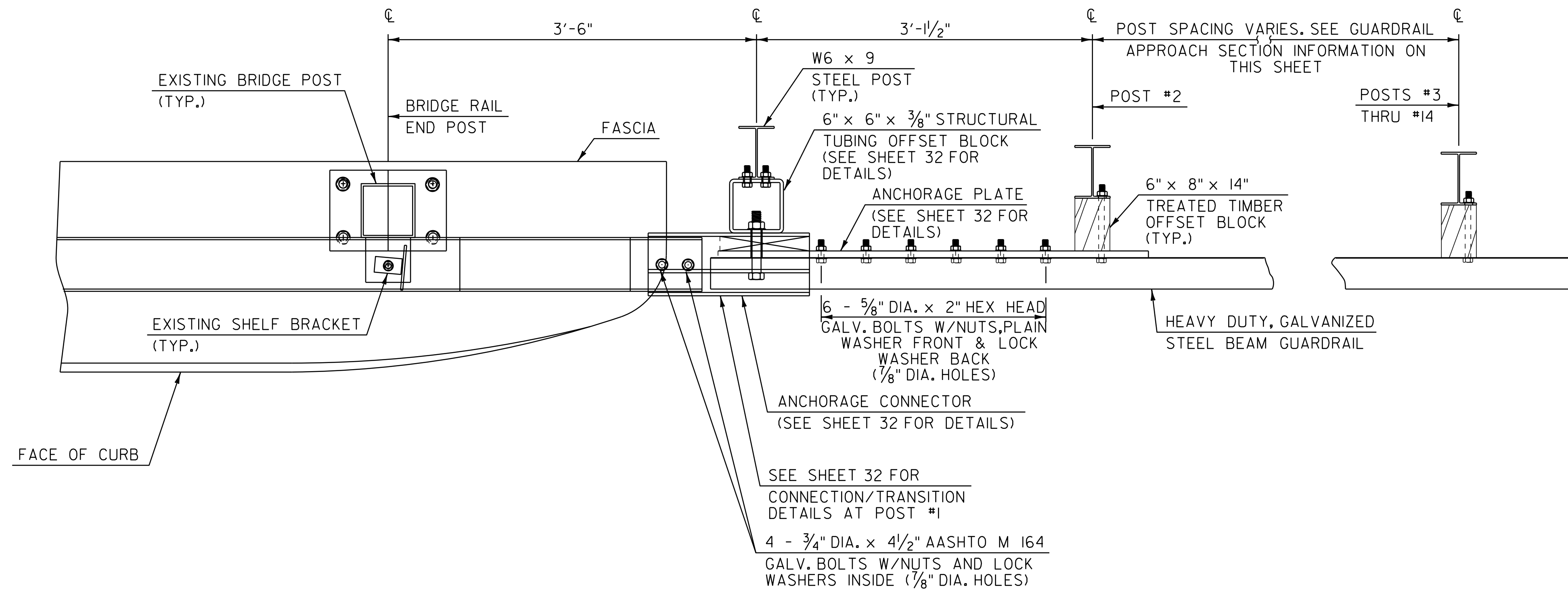
IPARM FILE NAME: p10b236_30

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: WWG

CHECKED BY: PTS

SHEET 30 OF 105

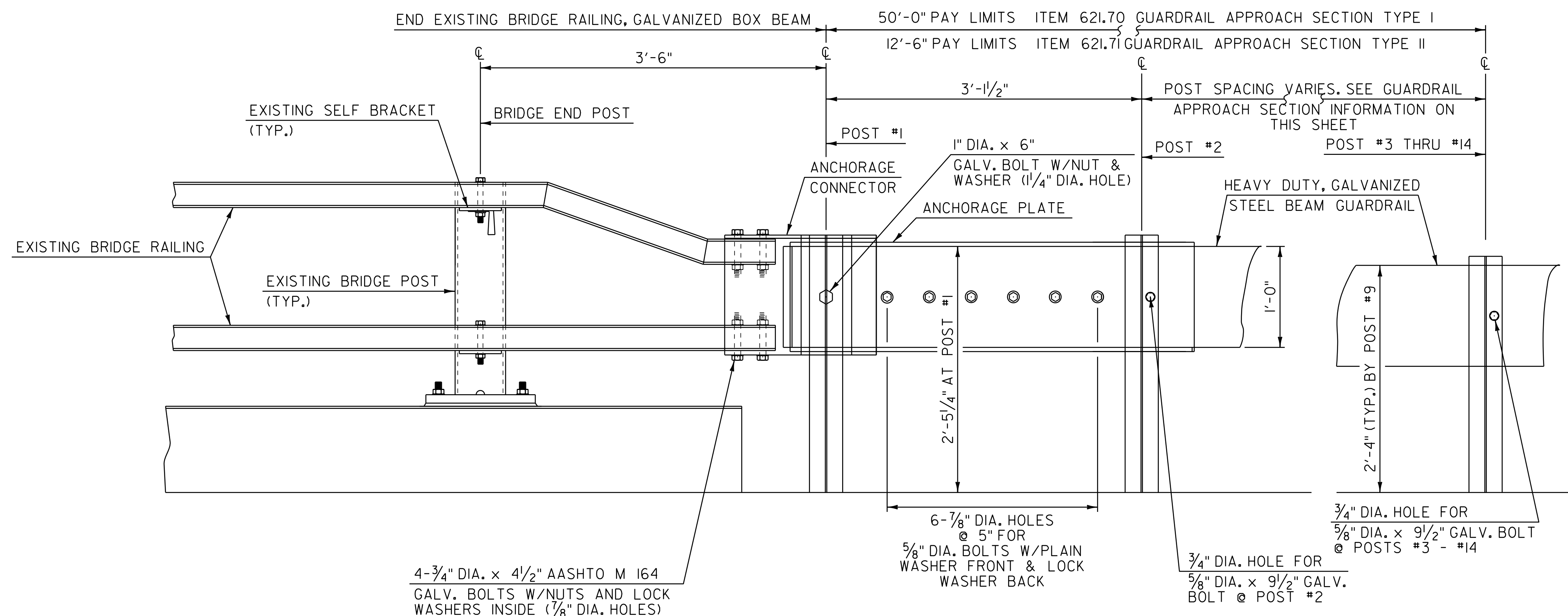


PLAN

**ITEM 621.70
GUARDRAIL
APPROACH SECTION,
TYPE I**

POST NO.	SPACING
1	3'-1 1/2"
2	3'-1 1/2"
3	3'-1 1/2"
4	3'-1 1/2"
5	3'-1 1/2"
6	3'-1 1/2"
7	3'-1 1/2"
8	3'-1 1/2"
9	4'-2"
10	4'-2"
11	4'-2"
12	6'-3"
13	6'-3"
14	6'-3"

50'-0" PAY LIMIT GUARDRAIL
APPROACH SECTION, TYPE I



ELEVATION

**ITEM 621.71
GUARDRAIL
APPROACH SECTION,
TYPE II**

POST NO.	SPACING
1	3'-1 1/2"
2	4'-8 1/4"
3	4'-8 1/4"
4	4'-8 1/4"

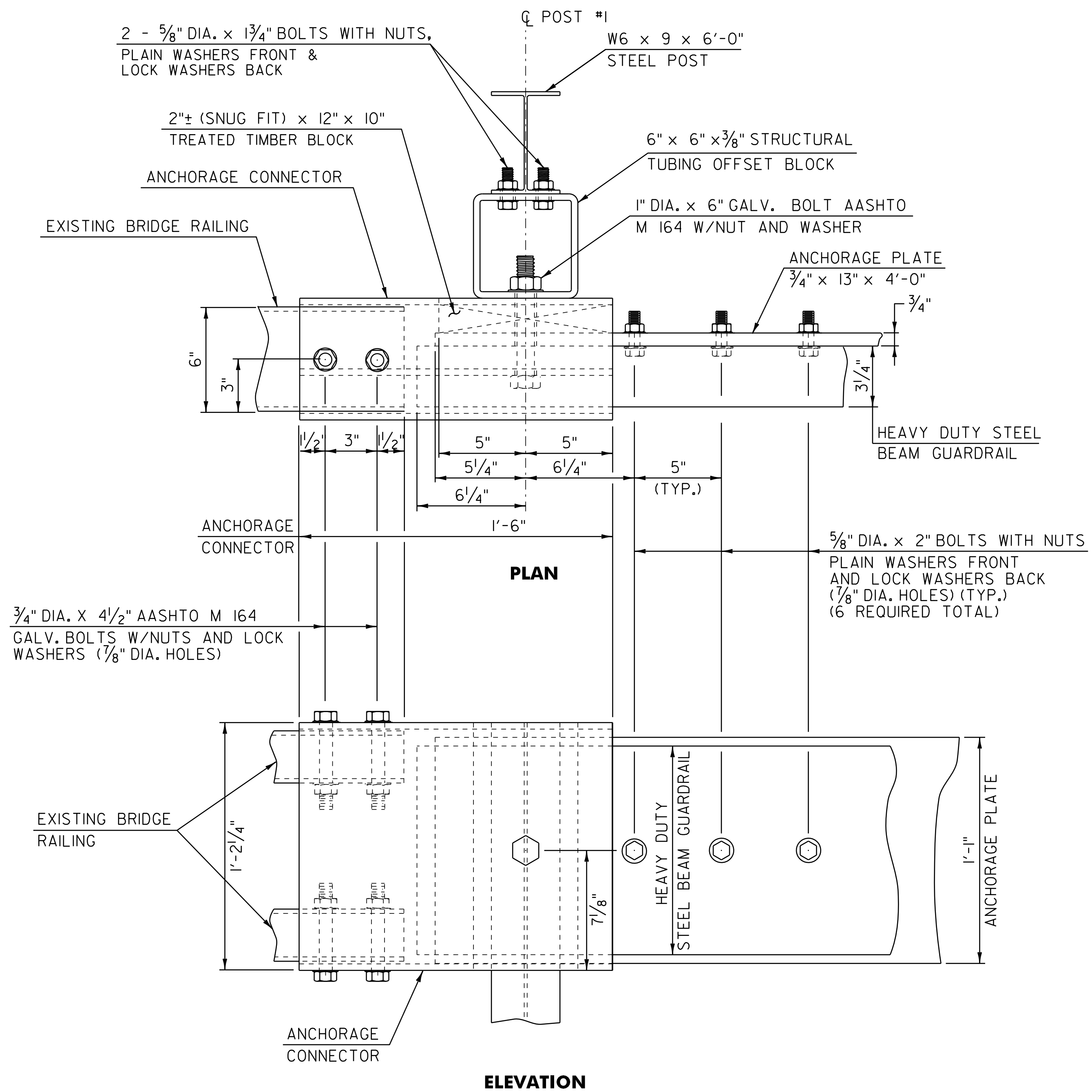
12'-6" PAY LIMIT
GUARDRAIL
APPROACH SECTION,
TYPE II

GUARDRAIL APPROACH SECTION DETAIL

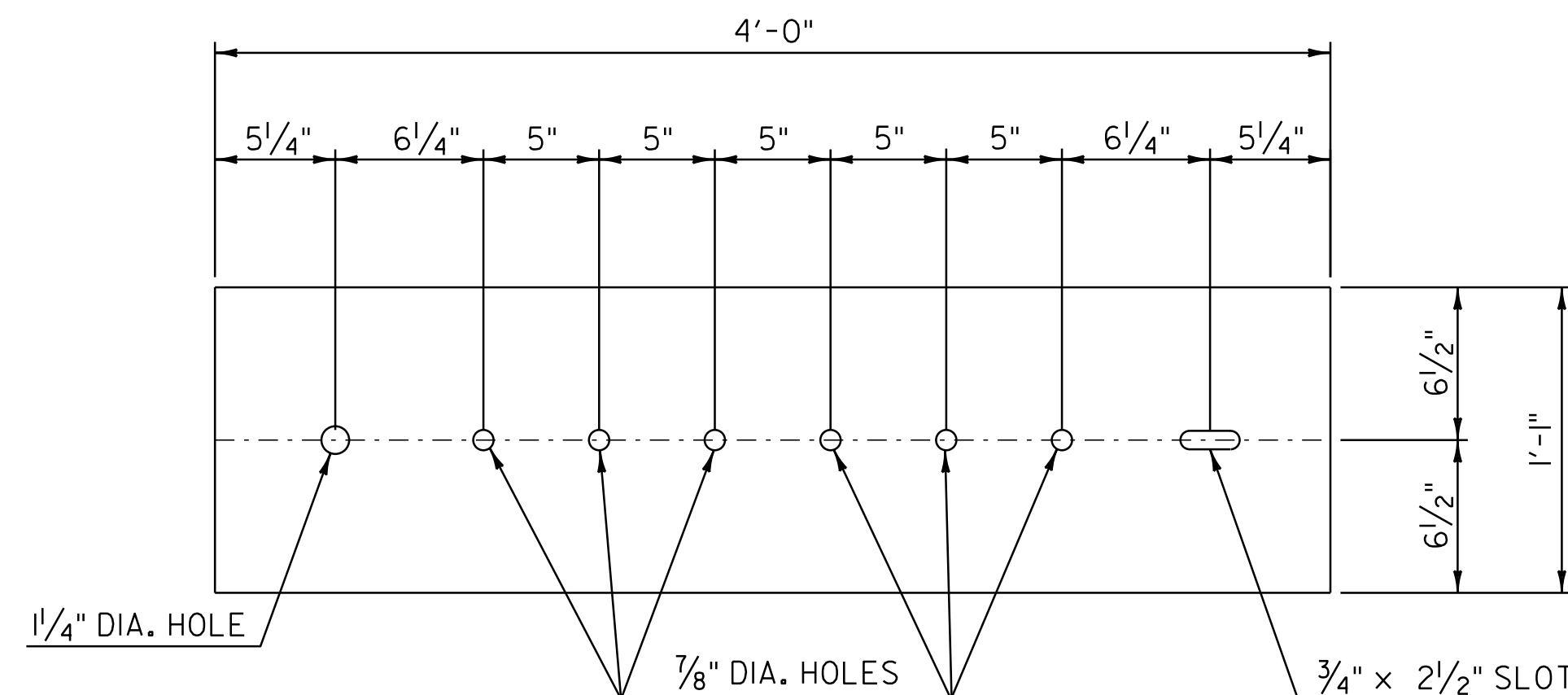
NOT TO SCALE

**GUARDRAIL APPROACH SECTION
DETAIL SHEET 1**

PROJECT NAME:	BRADFORD
PROJECT NUMBER:	STP 2917(I)
FILE NAME:	pl0b236.dgn
PROJECT LEADER:	PTS
DESIGNED BY:	NLL
IPARM FILE NAME:	pl0b236_31
PLOT DATE:	03-SEP-2014 12:50
DRAWN BY:	WWG
CHECKED BY:	PTS
SHEET	31 OF 105



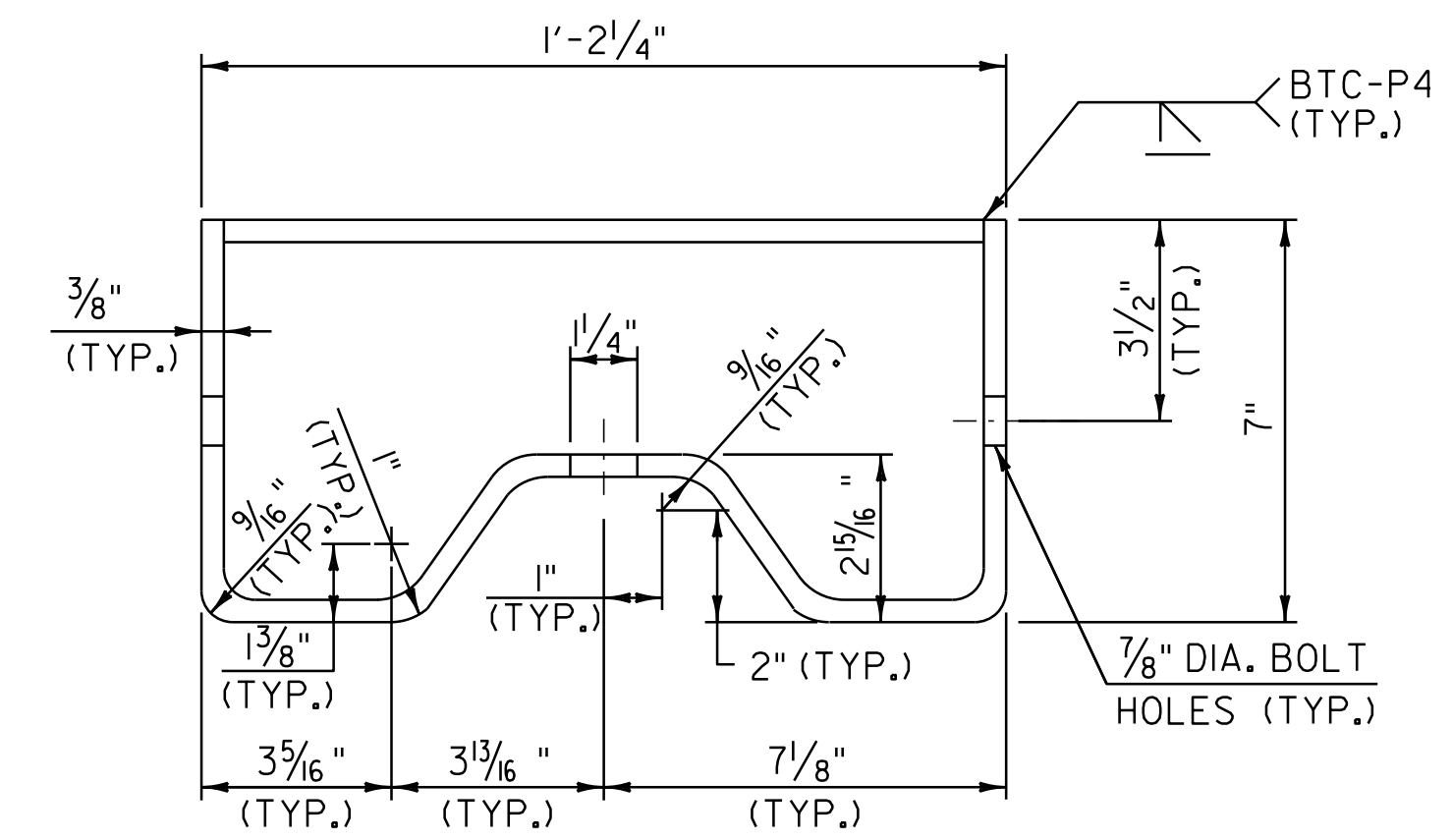
CONNECTION DETAILS AT POST #1



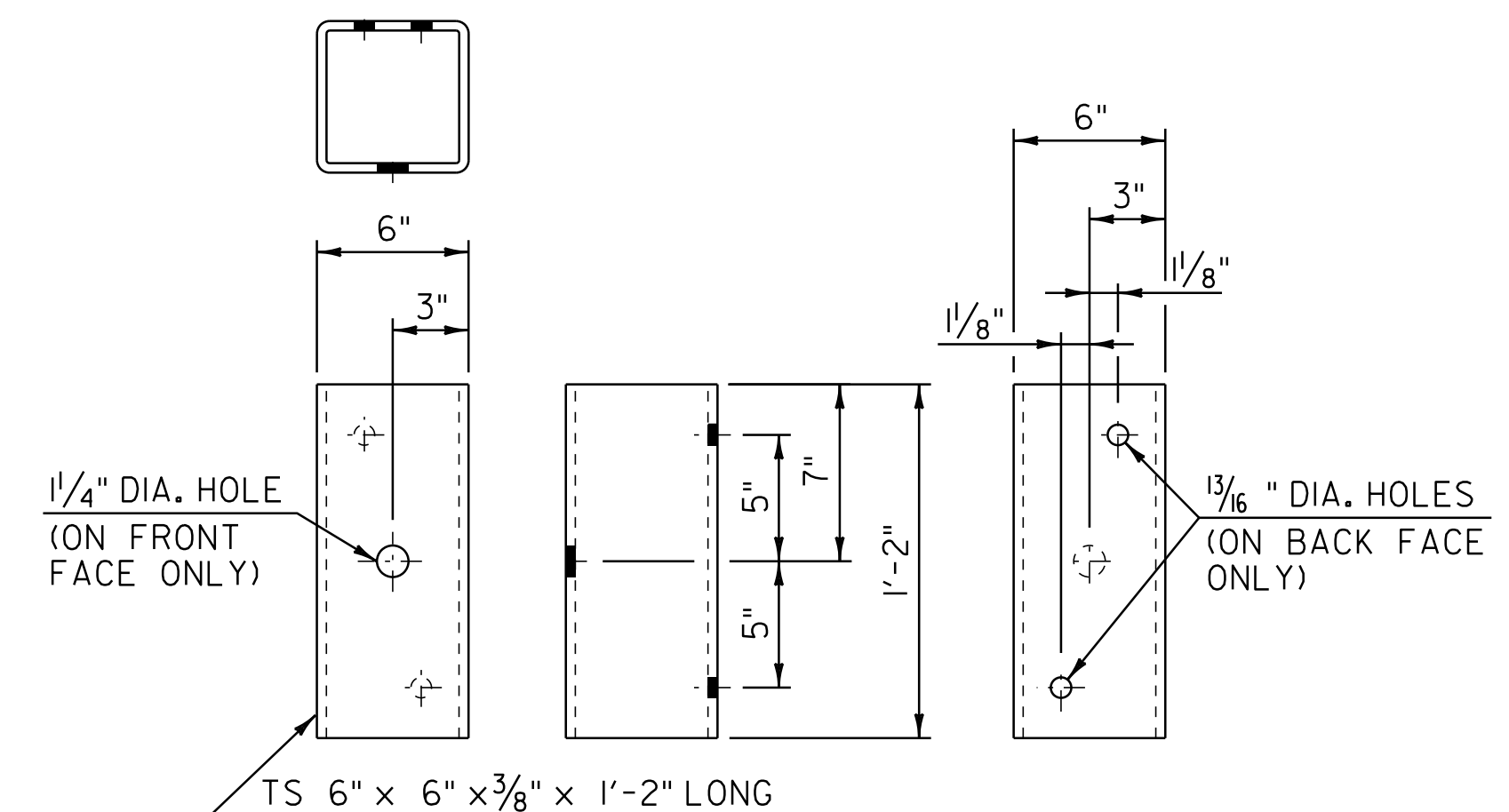
ANCHORAGE PLATE DETAIL

NOTES:

1. REFER TO STANDARD G-1 FOR ADDITIONAL RAIL DETAILS.
2. ALL POSTS FOR HEAVY DUTY STEEL BEAM GUARDRAIL SHALL BE STEEL IN ACCORDANCE WITH SECTION 728 "GUARDRAIL, GUIDE POSTS AND BARRIERS" UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.
3. APPROACH RAIL SPLICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
4. ANCHORAGE CONNECTOR AND ANCHORAGE PLATE SHALL BE AASHTO M 270, GRADE 250 GALVANIZED TO AASHTO M III AFTER FABRICATION.
5. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO VERMONT STANDARD SPECIFICATION 728.03 (c) (I) (2).
6. STRUCTURAL TUBING OFFSET BLOCK SHALL CONFORM TO VERMONT STANDARD SPECIFICATION 728.01 (c).
7. APPROACH RAILING SHALL BE HEAVY DUTY STEEL BEAM FOR 50'-0" FROM THE CL OF POST #1 FOR TYPE I AND 12'-6" FROM THE CL OF POST #1 FOR TYPE II.
8. ALLOWABLE DIMENSIONAL TOLERANCE FOR BENT SECTIONS IS $\pm 1/16$ ".
9. THE UNIT PRICES BID FOR EITHER TYPE OF GUARDRAIL APPROACH SECTION SHALL INCLUDE ANCHORAGE CONNECTOR, ANCHORAGE PLATE, HEAVY DUTY STEEL BEAM GUARDRAIL, POSTS, OFFSET BLOCKS, BLOCKING, BOLTS, AND ALL NECESSARY HARDWARE.



ANCHORAGE CONNECTOR DETAIL
(SEE NOTE 8)

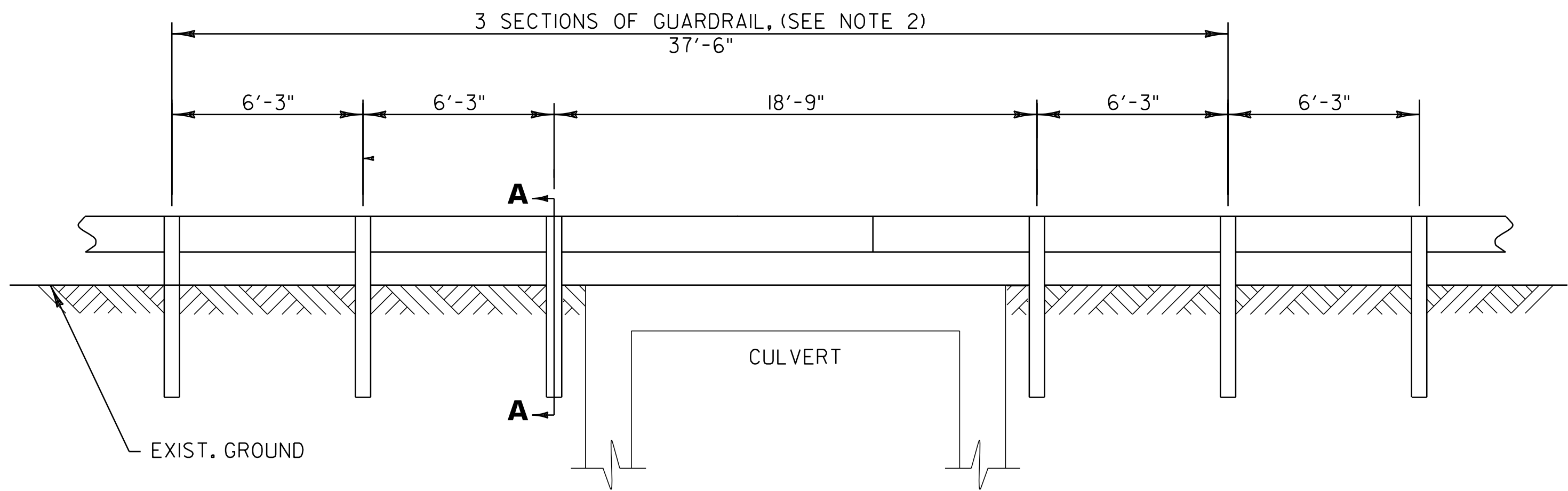


STRUCTURAL TUBING OFFSET BLOCK DETAILS
(OCCURS AT POST #1 WHEN USING APPROACH RAIL UTILIZING STEEL POSTS)

**GUARDRAIL APPROACH SECTION
DETAIL SHEET 2**

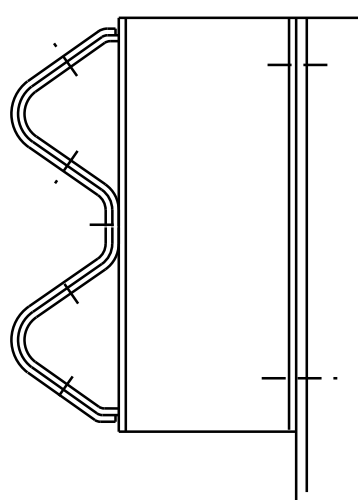
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PROJECT NUMBER: STP 2917(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:50
PROJECT LEADER: PTS	DRAWN BY: WWG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_32	SHEET 32 OF 105

NOT TO SCALE



DETAIL OF STEEL BEAM GUARDRAIL AT LARGE CULVERTS

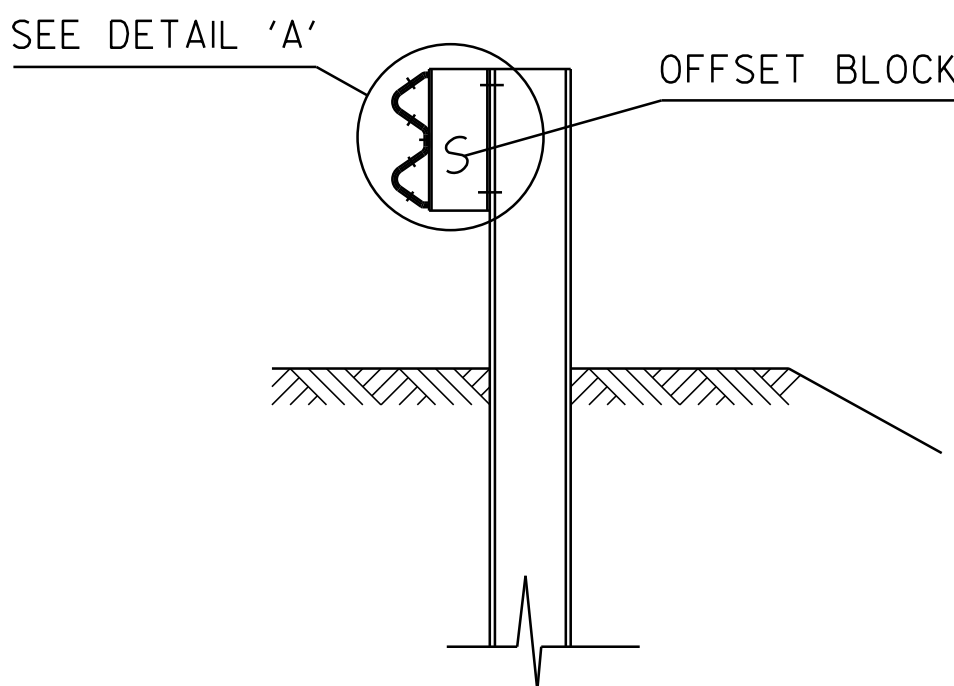
BRIDGE 8 - 294+46 MM 5.577 LT & RT



DETAIL 'A'

NOTES

1. SEE VAOT STANDARDS G-1& G-1d FOR STEEL BEAM GUARDRAIL DETAILS.
2. THIS WORK SHALL BE PAID UNDER ITEM 621.207 STEEL BEAM GUARDRAIL, GALVANIZED/NESTED W/8 FEET POSTS.
3. THIS DETAIL TO BE USED AS INDICATED ON THE ITEM DETAIL SHEET OR AS DIRECTED BY THE ENGINEER.



SECTION A-A

TYP. @ LOCATIONS SHOWN BELOW					
6'-3" SPACING	3 SPACES @ 4'-2" "	4 SPACES @ 3'-1 1/2"	4 SPACES @ 3'-1 1/2"	3 SPACES @ 4'-2" "	6'-3" SPACING
	= 12.5'	= 12.5'	= 12.5'	= 12.5'	
		4' OR LESS	UTIL POLE		
	12.5' REDUCED SPACING	12.5' REDUCED SPACING	12.5' REDUCED SPACING	12.5' REDUCED SPACING	
	PAY FACTOR 1.2 (12.5')(1.2) = 15'	PAY FACTOR 1.4 (12.5')(1.4) = 17.5'	PAY FACTOR 1.4 (12.5')(1.4) = 17.5'	PAY FACTOR 1.2 (12.5')(1.2) = 15'	

NON-YIELDING OBJECT DETAIL

OBJECTS WITHIN 4.0 FT OF GUARDRAIL

LOCATION

2+04 RT
3+32 RT
125+08 RT
127+58 RT
130+50 RT
237+67 LT
243+41 LT

GUARDRAIL DETAILS SHEET

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(1)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_33

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: WWG

CHECKED BY: PTS

SHEET 33 OF 105

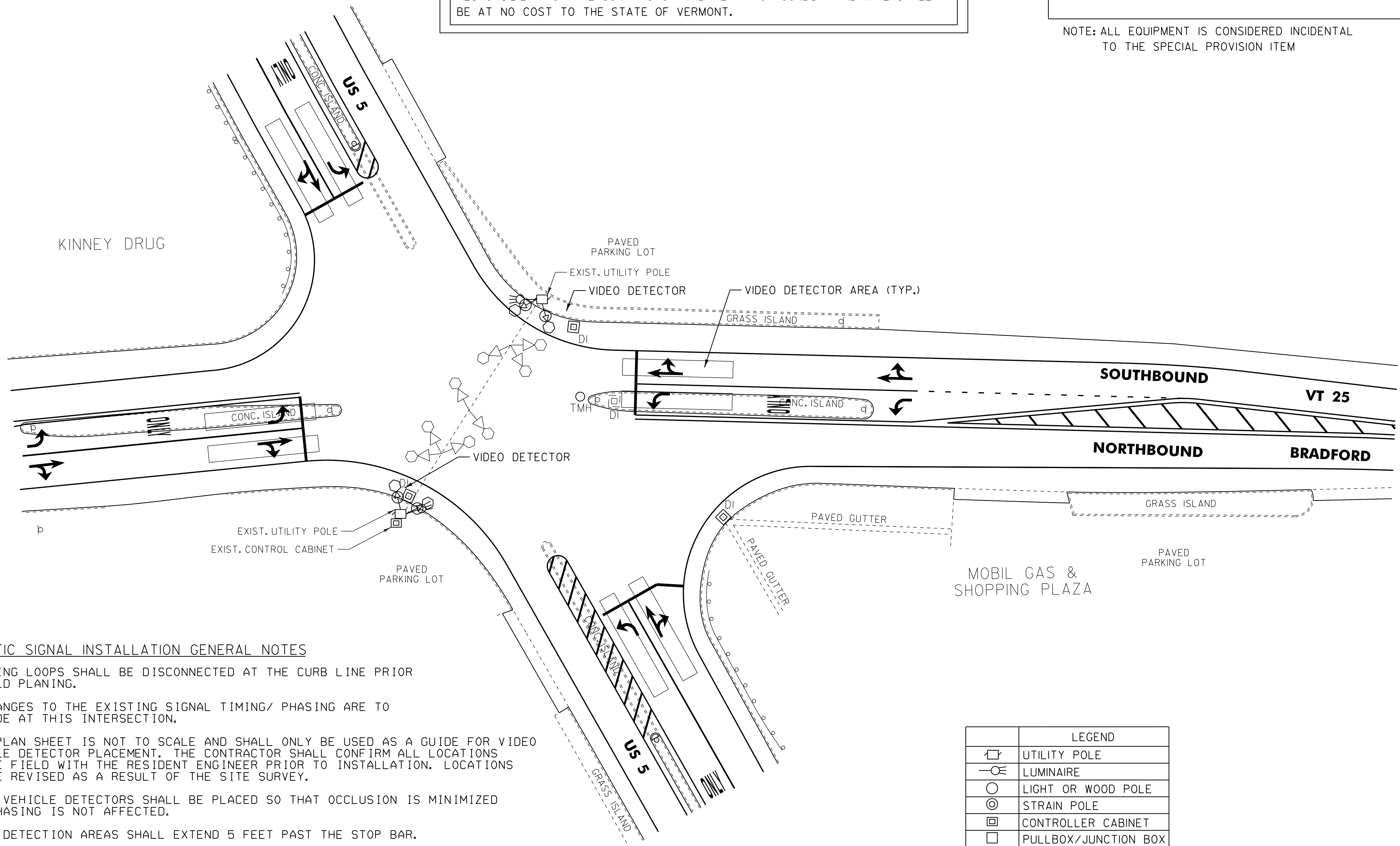
NOT TO SCALE

VT 25 @ US 5

THE LOCATION OF THE CONTROL CABINET & UTILITY POLES ARE APPROXIMATE.
THE LOCATION AND DEPTH OF THE ELECTRICAL CONDUITS ARE UNKNOWN.
THE CONTRACTOR MUST TAKE CARE NOT TO DAMAGE THE ELECTRICAL CONDUITS
IN THE PROCESS OF COLD PLANING. ANY DAMAGE INCURRED WILL BE THE
RESPONSIBILITY OF THE CONTRACTOR AND REPAIR OF CONDUIT AND WIRE SHALL
BE AT NO COST TO THE STATE OF VERMONT.

SUMMARY OF QUANTITIES STP 2917(I)		
ITEM	DESCRIPTION	QUANTITY
900.620	SPECIAL PROVISION (VIDEO VEHICLE DETECTION SYSTEM) (VT 25 @ US 5)	1
	VIDEO VEHICLE DETECTION CAMERAS	4

NOTE: ALL EQUIPMENT IS CONSIDERED INCIDENTAL
TO THE SPECIAL PROVISION ITEM



TRAFFIC SIGNAL INSTALLATION GENERAL NOTES

- EXISTING LOOPS SHALL BE DISCONNECTED AT THE CURB LINE PRIOR TO COLD PLANING.
- NO CHANGES TO THE EXISTING SIGNAL TIMING/ PHASING ARE TO BE MADE AT THIS INTERSECTION.
- THIS PLAN SHEET IS NOT TO SCALE AND SHALL ONLY BE USED AS A GUIDE FOR VIDEO VEHICLE DETECTOR PLACEMENT. THE CONTRACTOR SHALL CONFIRM ALL LOCATIONS IN THE FIELD WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION. LOCATIONS MAY BE REVISED AS A RESULT OF THE SITE SURVEY.
- VIDEO VEHICLE DETECTORS SHALL BE PLACED SO THAT OCCLUSION IS MINIMIZED AND PHASING IS NOT AFFECTED.
- VIDEO DETECTION AREAS SHALL EXTEND 5 FEET PAST THE STOP BAR.
- THE CONTRACTOR SHALL VERIFY IN THE FIELD THAT THERE IS ADEQUATE SPACE IN THE CONDUIT AND CONTROLLER FOR VIDEO DETECTION CABLE AND EQUIPMENT.
- VIDEO VEHICLE DETECTION SYSTEM SHALL BE ECONOLITE AUTOSCOPE ENCORE OR ITERIS VERSICAM OR TRAFICON VIP SERIES.
- ALL TRAFFIC SIGNAL CONDUIT SHALL BE SCHEDULE 80 PVC.
- ALL ELECTRICAL WIRING SHALL BE DONE BY A LICENSED ELECTRICIAN AND OVERSEEN BY A MASTER ELECTRICIAN.

LEGEND	
	UTILITY POLE
	LUMINAIRE
	LIGHT OR WOOD POLE
	STRAIN POLE
	CONTROLLER CABINET
	PULLBOX/JUNCTION BOX
	SIGNAL HEAD
	VIDEO DETECTOR
	CONDUIT
	EXIST. VEHICLE LOOPS
	VIDEO DETECTION AREA
	PEDESTAL POST
	STANCHION

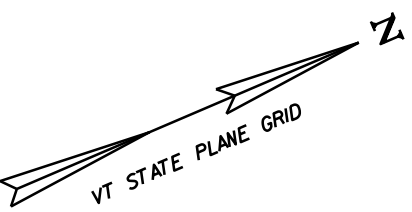
VIDEO DETECTION SYSTEM SHEET

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(I)	
FILE NAME: pl0b236.dgn	PLOT DATE: 03-SEP-2014 12:50
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: pl0b236_34	SHEET 34 OF 105

NOT TO SCALE

VT 25/WASHINGTON COUNTY RAILROAD
CONNECTICUT RIVER DIVISION
BRADFORD SUBDIVISION
RR MP 13.74

TRAILER PARK



CENTRAL VERMONT
PUBLIC SERVICE

SOUTHBOUND

NORTHBOUND

EDGE OF TRAVEL WAY

REPLACE AND REWIRE EXISTING
FLASHERS WITH NEW 12" 2-WAY
LED FLASHERS. REPLACE EXISTING
CROSSING BELL WITH NEW
ELECTRONIC BELL

APPROX.
STATION
99+81 LT

4" GALVANIZED STEEL (HEAVY WALL)
SIGNAL CONDUIT

PROP. 117 LF 115" RE

PROP. IJ AT
STATION 99+37.01 RT

PROP. IJ AT STATION 99+33.37 LT

BEGIN RAILROAD FULL DEPTH CONSTRUCTION STATION 99+33

EXIST. JOINT AT APPROX. STATION 99+14.22 LT

BEGIN SOUTH RAILROAD
APPROACH STATION 98+94

99+00

EXIST. JOINT AT
APPROX. STATION
99+16.01 RT

REMOVE AND RELOCATE
EXISTING SIGNAL MAST FROM
EXISTING FOUNDATION.
REPLACE AND REWIRE EXISTING
SIGNAL FLASHERS WITH NEW
12" 1-WAY LED FLASHERS.
REMOVE EXISTING ABANDONED
RAIL, TIES, AND O.T.M. REQUIRED FOR THE SIGNAL
MAST RELOCATION. BACKFILL
AND REGRADE AREA LEVEL
WITH EXISTING.

SIGNAL CASE
APPROX.
STATION
99+70 RT

INSTALL NEW SIGNAL WIRES AND CONDUIT
FROM EXISTING SIGNAL CASE TO NEW 12"
LED FLASHERS ON EXISTING AND RELOCATED
SIGNAL MASTS. INSTALL NEW TRACK WIRES
FROM SIGNAL CASE TO NEW ISLAND
CIRCUIT AND EXISTING APPROACH CIRCUITS.
FURNISH AND INSTALL NEW BATTERIES AND
NEW BATTERY CHARGER. REMOVE AND PROPERLY
DISPOSE OF EXISTING BATTERIES.
INSTALL A MAINTAINER'S CONTROL BOX ON THE
OUTSIDE OF THE EXISTING SIGNAL CASE.

EXIST.
GRAVEL
PARKING AREA

16+00

APPROX.
STATION
100+08 RT

PROP. SL

APPROX.
STATION
100+15 RT

PROP. SL

100+00

APPROX.
STATION
99+72 RT

15'

10'

8'

17+00

SAW CUT

STATION 16+59
RTE 25 = ASSUMED
STATION 100+00
WASHINGTON COUNTY RR

PROP. IJ AT STATION
100+50.37 LT

END RAILROAD FULL DEPTH
CONSTRUCTION STATION 100+54

EXIST. JOINT AT APPROX.
STATION 100+69.37 LT

PICKET FENCE

101+00

END NORTH RAILROAD APPROACH STATION 100+93

EXIST. JOINT AT APPROX. STATION 100+87.79 RT

PROP. IJ AT STATION 100+54.04 RT

PROPOSED UNDERDRAIN FLUSHING
BASINS PER STANDARD D-30
AT APPROX. STATION 100+40

6" GALVANIZED METAL UNDERDRAIN (TYP)

REMOVE AND RELOCATE EXISTING SIGNAL MAST FROM EXISTING
FOUNDATION. REPLACE AND REWIRE EXISTING SIGNAL FLASHERS
WITH NEW 12" 2-WAY LED FLASHERS. REMOVE EXISTING
ABANDONED RAIL, TIES, AND O.T.M. REQUIRED FOR THE SIGNAL
MAST RELOCATION. BACKFILL AND REGRADE AREA LEVEL WITH
EXISTING.

DEMOLISH, REMOVE, AND DISPOSE OF
EXISTING SIGNAL FOUNDATION TO 2'
BELOW GRADE. BACKFILL AND REGRADE
AREA LEVEL WITH EXISTING.

FARM-WAY, INC

EXIST.
PARKING AREA

PLANTER BOX
UP

CROSSING LAYOUT

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(1)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: JHR

IPARM FILE NAME: 10B236.39X

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: ABR

CHECKED BY: JHR

SHEET 36 OF 105

VT 25/WASHINGTON COUNTY RAILROAD
CONNECTICUT RIVER DIVISION
BRADFORD SUBDIVISION
RR MP 13.74
RR SPEED CLASS 2, 25 MPH FREIGHT, 30MPH PASSENGER
ROADWAY SPEED 40 MPH

AADT		DHV		ESALS	
2012	2022	2012	2022	2012-2022	2012-2032
4300	4500	4905	5100	399,000	1,003,000

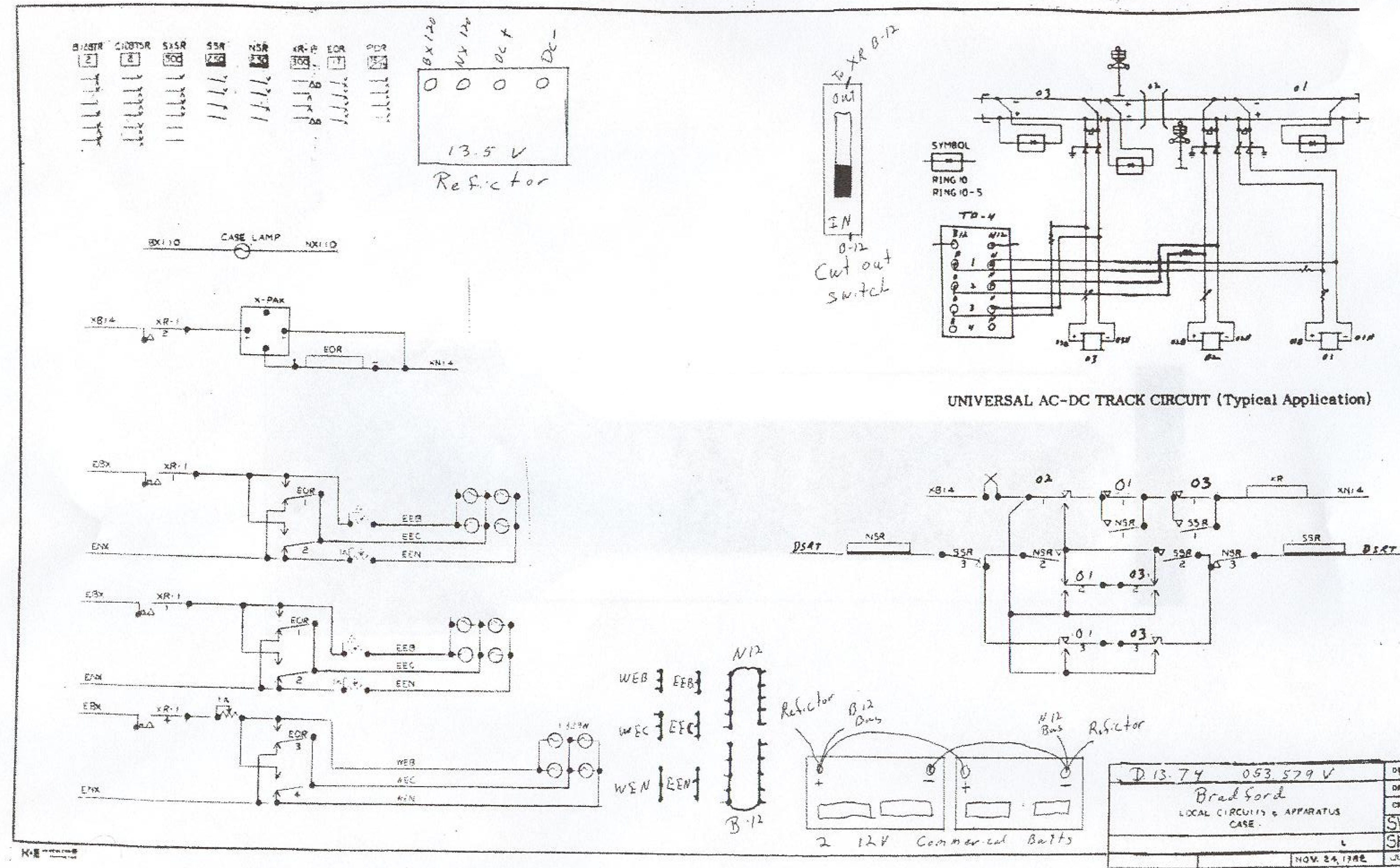
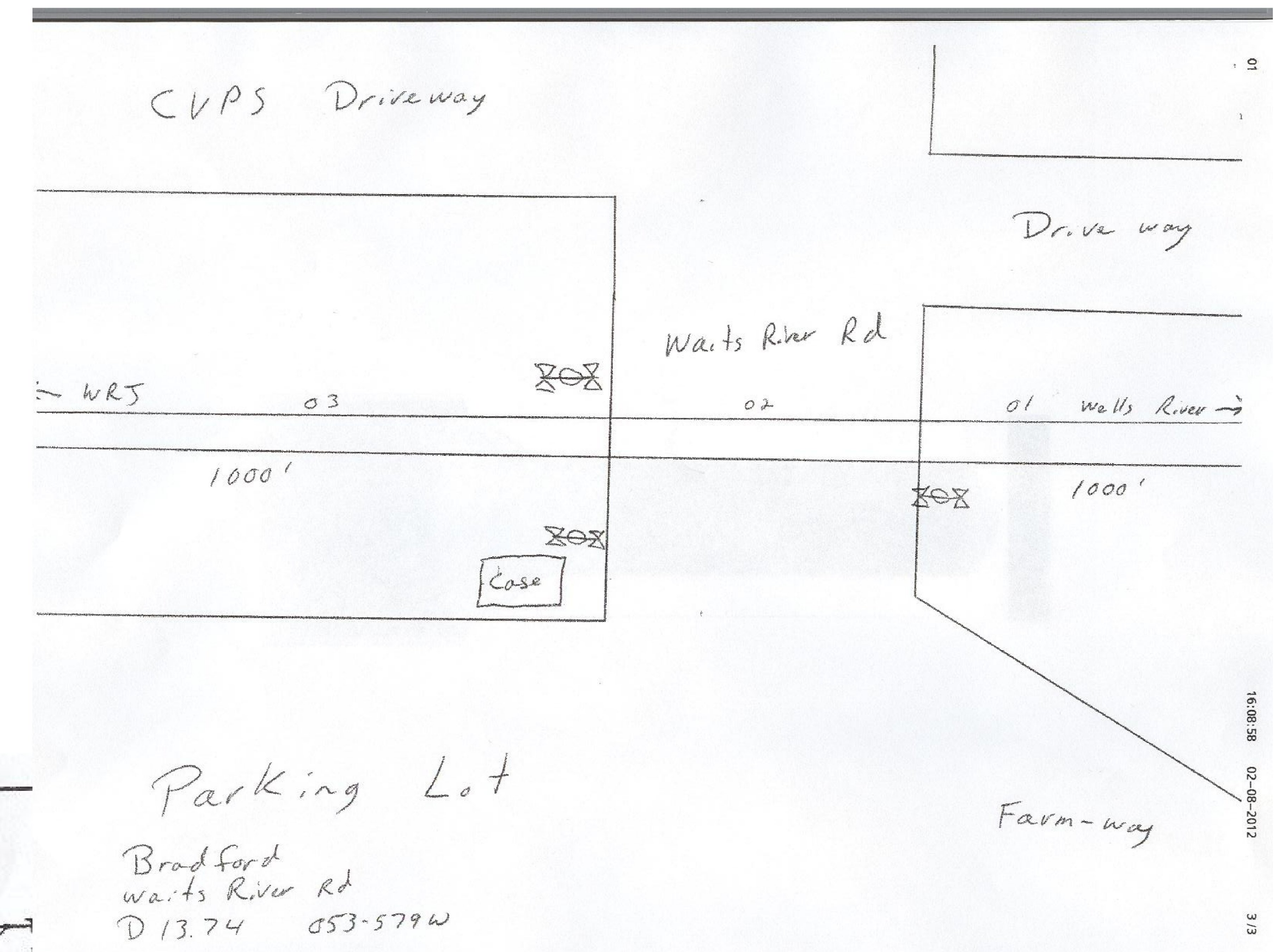
GENERAL NOTES

- DURING THE GRADE CROSSING CONSTRUCTION ENSURE THAT A GEOTEXTILE FABRIC IS PLACED ON TOP OF THE TIES TO PREVENT THE BITUMINOUS CONCRETE FROM BONDING TO THE TIES. THE GEOTEXTILE FABRIC SHALL BE INCIDENTAL TO ITEM 900.645 SPECIAL PROVISION (RECONSTRUCT RAIL - HIGHWAY CROSSING) (AARDOT 053-579V).
- ALL NEW RAIL JOINTS WITHIN THE CROSSING AREA AND BETWEEN THE INSULATED JOINTS WILL BE CROPPED AND WELDED IN ACCORDANCE WITH THE LATEST REVISION OF A.R.E.M.A. SPECIFICATIONS AT AN OFF- SITE ELECTRIC WELDING PLANT. WELDING CAN BE DONE IN FIELD UTILIZING THERMITE WELDING WITH ADVANCE APPROVAL FROM THE AGENCY. WELDED JOINTS SHALL BE GROUND TO CONFORM TO THE SHAPE OF THE RAIL ON GAUGE AND FIELD SIDES.
- TIE SPACING UNDER CWR AREA SHALL BE 18 INCHES ON CENTER.
- NEW 7"x9"x9'-0" AND 7"x9"x8'-6" TIES SHALL BE USED IN CROSSING AREA AS SHOWN. TO MAINTAIN FRA CLASS 2 TRACK TIE CONDITION IN THE APPROACHES, AS SHOWN ON THE PLANS, SELECT TIES SHALL BE IDENTIFIED BY THE RAILROAD FOR REPLACEMENT AND APPROVED BY THE ENGINEER.
- TIE PLATES SHALL BE NEW 14 INCH PLATES, MANUFACTURED FOR THE RAIL SIZE USED. PLATES SHALL BE INSPECTED AND APPROVED BY THE RAILROAD AND THE ENGINEER. RAIL FASTENERS SHALL BE CUT TRACK SPIKES.
- BALLAST SHALL EXTEND 6 INCHES BEYOND END OF TIES AND SLOPE 1:2 TO THE ROADBED. (SEE CROSSING DETAILS 2)
- TYPE AND DESIGN OF EMBEDDED RUBBER RAIL SEAL MATERIAL SHALL RECEIVE APPROVAL FROM THE ENGINEER.
- MANUFACTURER'S SPECIFICATIONS SHALL BE FOLLOWED FOR THE INSTALLATION OF THE EMBEDDED RUBBER RAIL SEAL MATERIALS.
- INSTALLATION OF INSULATED JOINTS: THE MAXIMUM STAGGER BETWEEN INSULATED RAIL JOINTS SHALL BE 4'-6", MINIMUM SHALL BE 3'-6".
- BITUMINOUS CONCRETE PAVEMENT SHALL FOLLOW LATEST EDITION OF THE AGENCY'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SHALL BE PLACED PARALLEL TO CROSSING TO MINIMIZE APPROACH SETTLEMENT, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
- CONTRACTOR SHALL LINE, TAMP, AND SURFACE TRACK IN APPROACH AREAS TO OBTAIN A SMOOTH TRANSITION BETWEEN EXISTING AND PROPOSED TRACK TO THE SATISFACTION OF THE ENGINEER AND RAILROAD. THE WORK OF LINE, TAMP, AND SURFACE TRACK IS INCIDENTAL TO THE RECONSTRUCT RAIL - HIGHWAY CROSSING (AARDOT 053-579V) ITEM 900.645.

- THE CONTRACTOR SHALL INSTALL THE EMBEDDED RUBBER RAIL SEAL BY INTERCLAMP DEVICE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ANY DAMAGE TO THE NEW ELASTOMERIC INTERFACE RESULTING FROM THE CONTRACTOR'S INSTALLATION METHODS SHALL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE AS DIRECTED BY THE RESIDENT ENGINEER. THE COST OF FURNISHING AND INSTALLING THE ELASTOMERIC INTERFACE AND ATTACHMENT HARDWARE SHALL BE INCIDENTAL TO ITEM 900.645 SPECIAL PROVISION (RECONSTRUCT RAIL - HIGHWAY CROSSING) (AARDOT 053-579V).
- THE COST OF PROVIDING TRAFFIC CONTROL, DURING THE CONSTRUCTION OF THIS PAVED RAIL HIGHWAY CROSSING SHALL BE PAID UNDER ITEM 900.645 SPECIAL PROVISION (RECONSTRUCT RAIL - HIGHWAY CROSSING) (AARDOT 053-579V).
- THE COST OF PAVING TWO LIFTS OF TYPE IIS BASE COURSE AT THE RAIL APPROACHES AND BETWEEN THE RAILS SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCIDENTAL TO ITEM 900.645 SPECIAL PROVISION (RECONSTRUCT RAIL - HIGHWAY CROSSING) (AARDOT 053-579V). THE COST OF PAVING THE TYPE IVS LEVELING AND WEARING COURSES AT THE RAIL APPROACHES AND TYPE IVS WEARING COURSE BETWEEN THE RAILS SHALL BE PAID AS PART OF THE STP 2917(I) PAVING PROJECT UNDER ITEM 490.30 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
- THE CONTRACTOR SHALL TAPER THE EXISTING VERTICAL VT 25 PAVEMENT AT A RATE OF 1 INCH IN 50 FEET MINIMUM TO THE HEIGHT OF THE EXISTING RAIL HIGHWAY CROSSING OR AS DIRECTED BY THE RESIDENT ENGINEER.
- SIGNAL CONDUITS 4" GALVANIZED STEEL (HEAVY WALL) TO BE INSTALLED WITH SECURED END CAPS IN LOCATIONS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS ITEM TO BE INCIDENTAL TO ITEM 900.645 SPECIAL PROVISION (RECONSTRUCT RAIL - HIGHWAY CROSSING) (AARDOT 053-579V).
- IN THE APPROACH AREA, THE CONTRACTOR SHALL REMOVE OLD TIES AND INSTALL NEW TIES AND BALLAST, AS DIRECTED BY THE ENGINEER, LINE, TAMP, AND SURFACE THE TRACK IN THE APPROACH AREA TO OBTAIN A SMOOTH TRANSITION BETWEEN THE EXISTING AND PROPOSED TRACK TO THE SATISFACTION OF THE ENGINEER AND RAILROAD. THE WORK OF LINE TAMP, AND SURFACE TRACK IN THE APPROACH AREA SHALL BE INCIDENTAL TO ITEM 900.645 SPECIAL PROVISION (RECONSTRUCT RAIL - HIGHWAY CROSSING) (AARDOT 053-579V). PAYMENT FOR BALLAST USED IN THE APPROACH AREA SHALL BE MADE UNDER ITEM 900.608 SPECIAL PROVISION (RAILROAD BALLAST). IN THE APPROACH AREA, PAYMENT FOR REMOVAL OF EXISTING TIES AND REPLACEMENT WITH NEW TIES, AS DIRECTED BY THE ENGINEER, SHALL BE MADE UNDER ITEM 900.620 SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES).

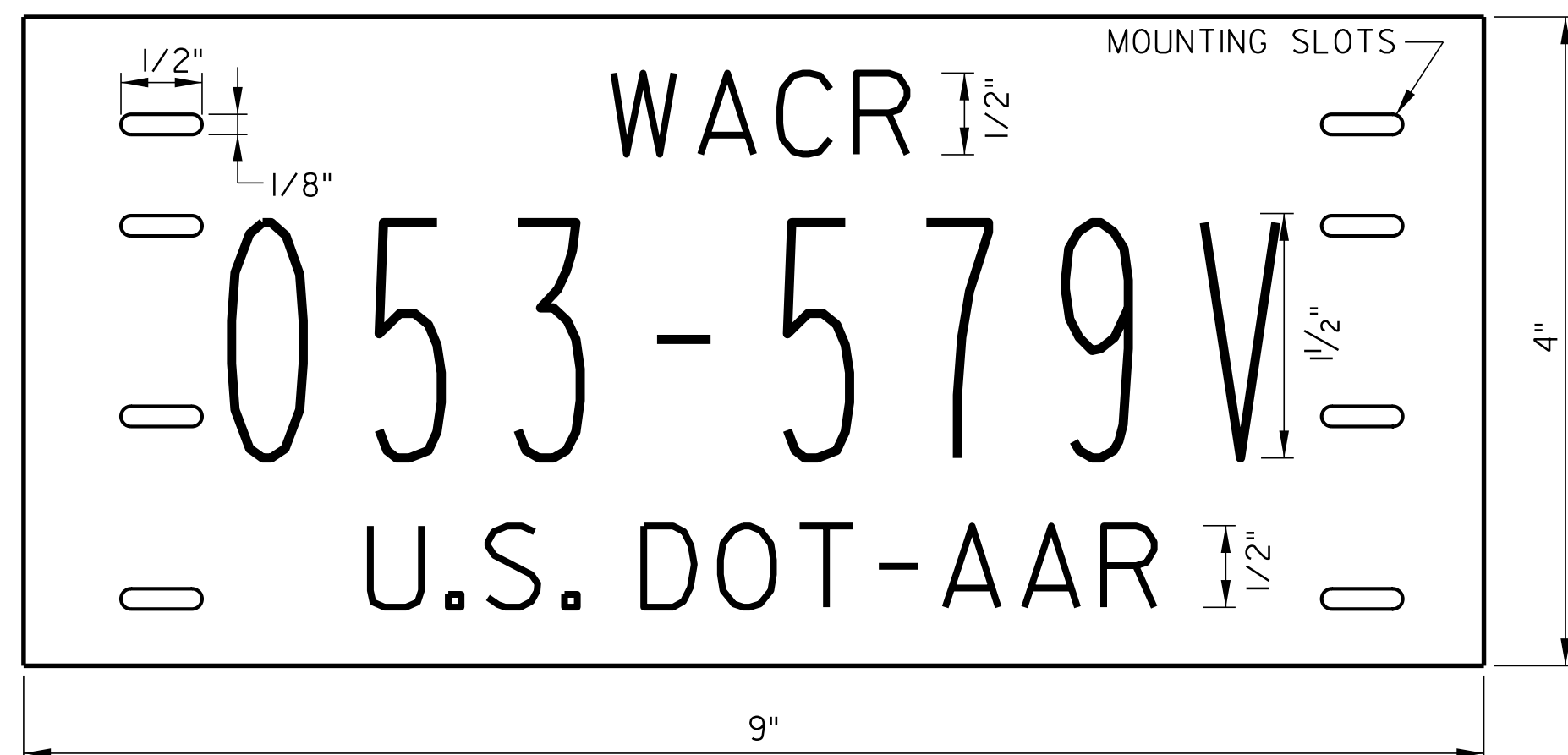
CROSSING GENERAL NOTES

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:50
PROJECT LEADER: PTS	DRAWN BY: ABR
DESIGNED BY: JHR	CHECKED BY: JHR
IPARM FILE NAME: 10B236.36X	SHEET 36 OF 105



CROSSING RECORD SIGNAL PLAN

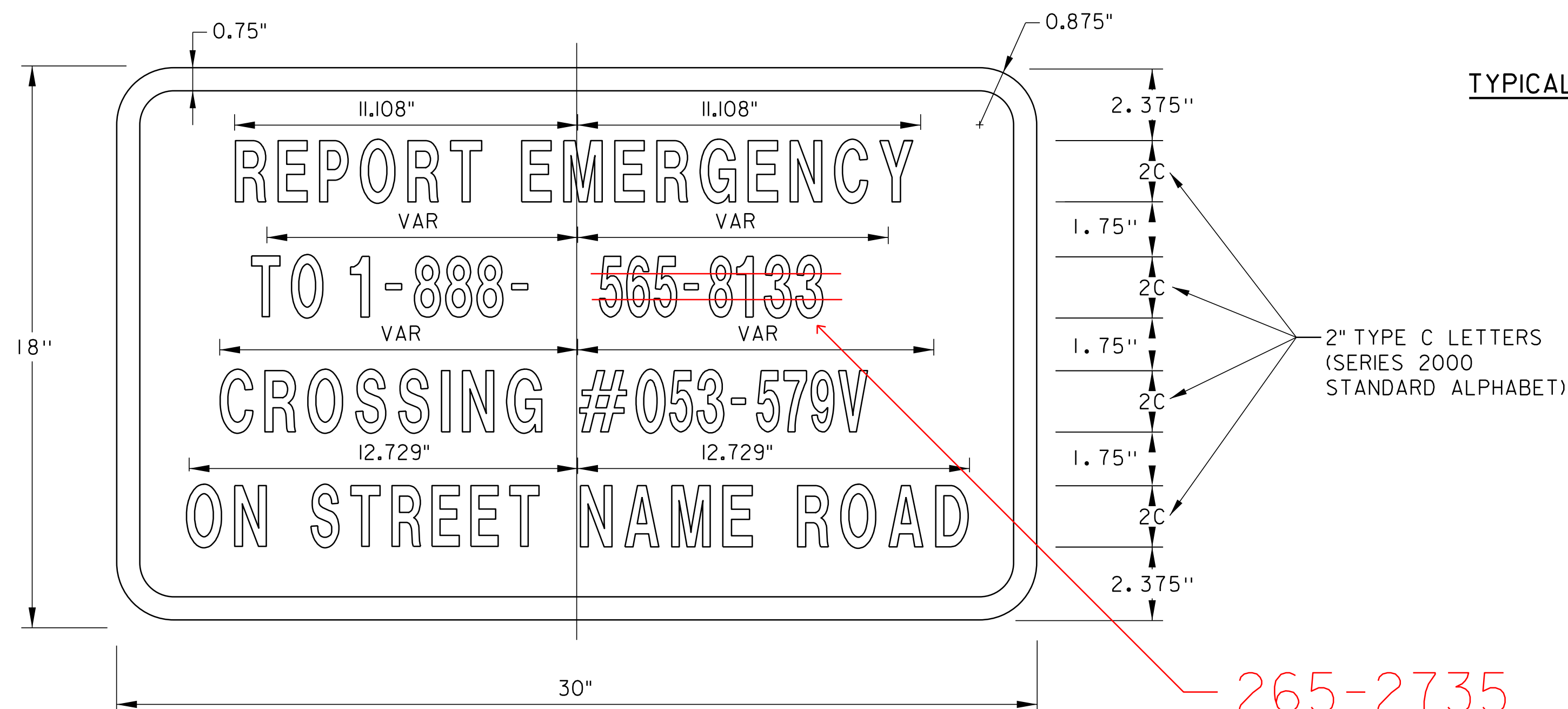
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PROJECT NUMBER:	STP 2917(I)
FILE NAME:	pl0b236.dgn
PROJECT LEADER:	PTS
DESIGNED BY:	JHR
IPARM FILE NAME:	10B236.37
PLOT DATE:	8/16/2012
DRAWN BY:	ABR
CHECKED BY:	JHR
SHEET	37 OF 105



PERMANENT NUMBER SIGN
NTS

PERMANENT NUMBER SIGN NOTES:

- PERMANENT NUMBER SIGN PLATES SHALL BE MADE UP OF 0.032 GAGE ALUMINUM WITH RAISED NUMBERS AND LETTERS. SEE SPECIFICATIONS. INSTALL ON SIGNAL MAST ONE ON EACH SIDE OF CROSSING.

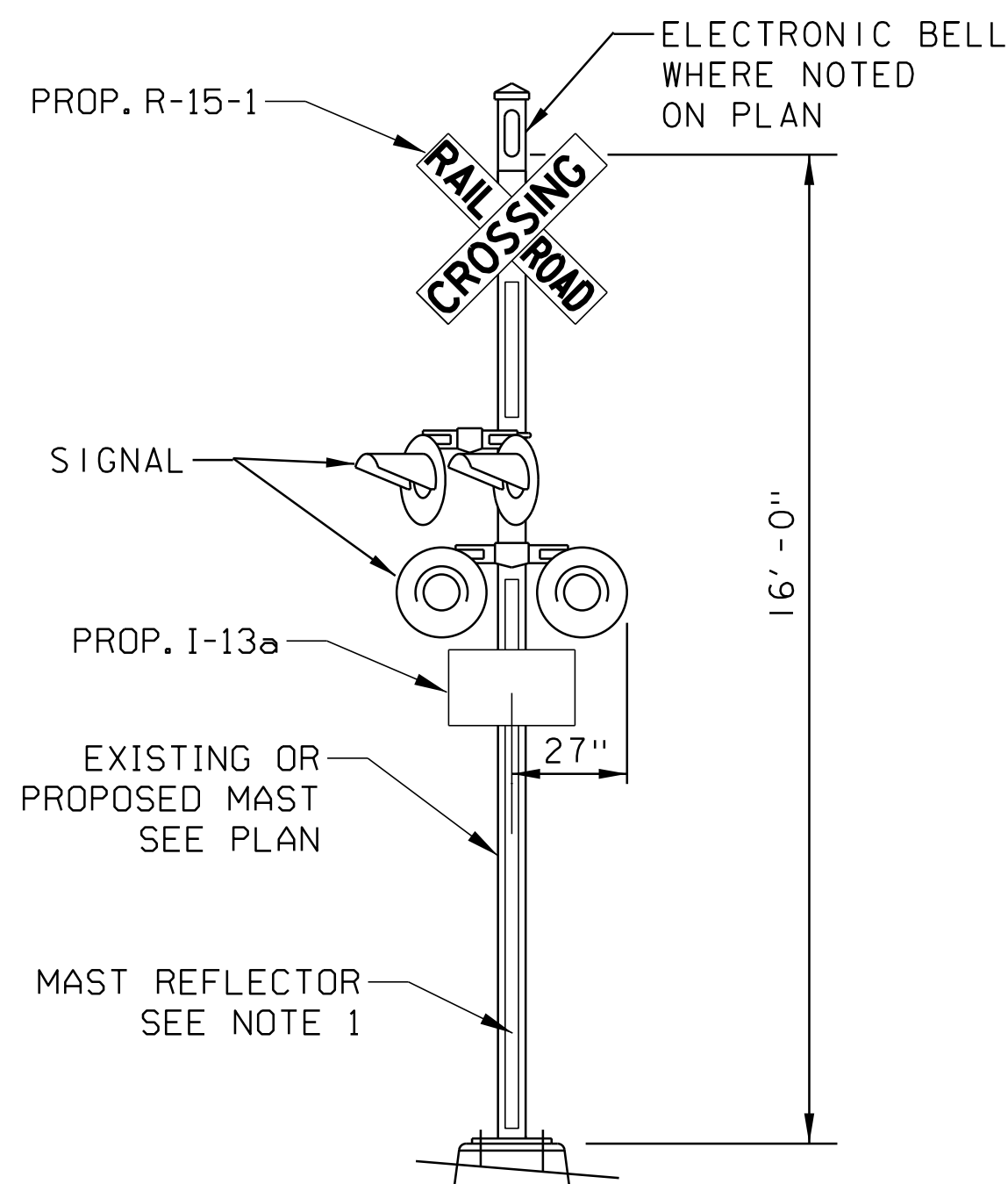


I-13a SIGN

COLORS: LEGEND BACKGROUND WHITE (RETROREFLECTIVE) BLUE (RETROREFLECTIVE)

GENERAL MOTORIST SERVICE SIGN NOTES:

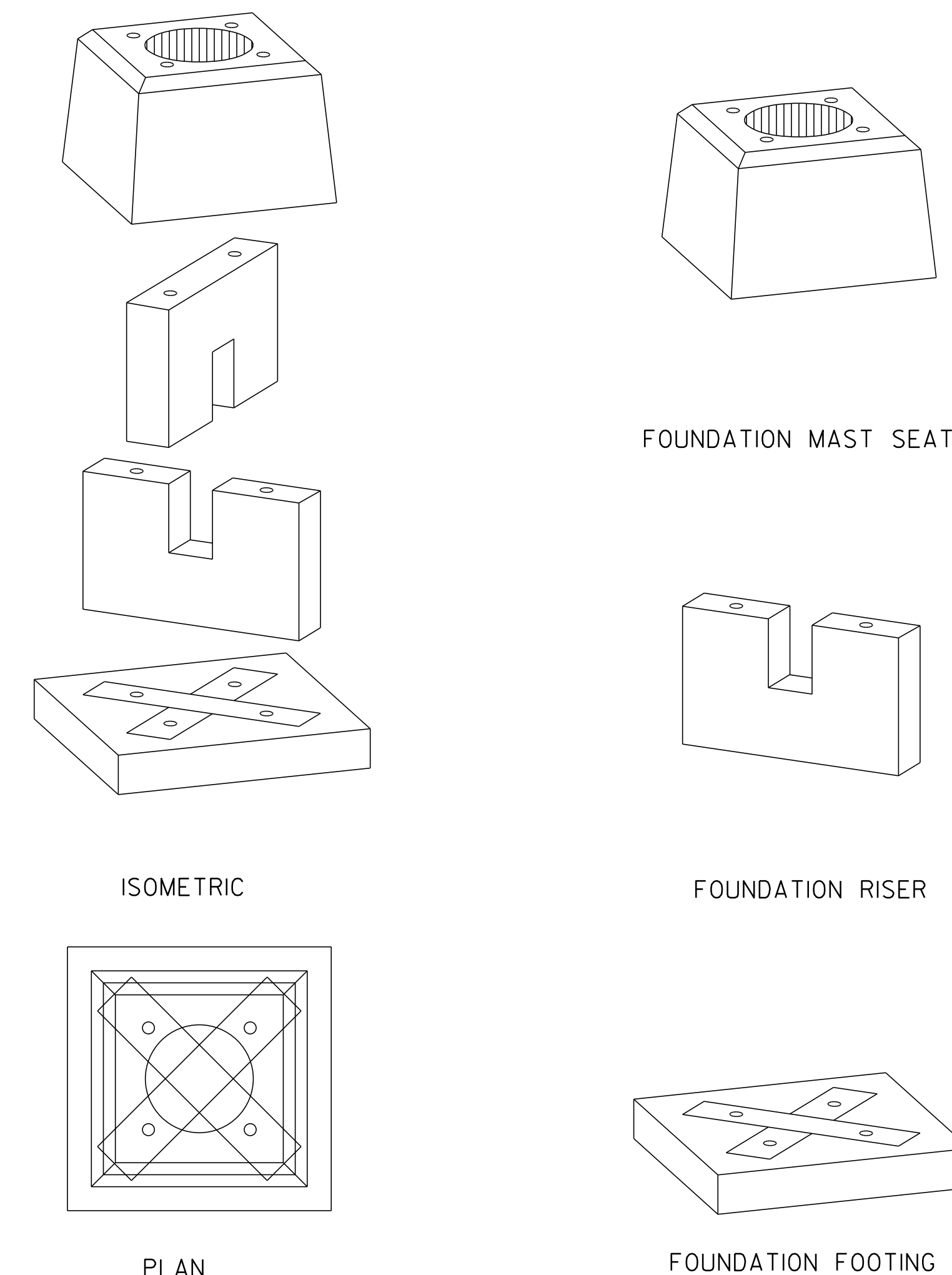
- THE COLORS, MATERIALS, LETTERING, DESIGN, AND SPECIFICATION SHALL CONFORM TO THE NOTES SHOWN ON VAOT STANDARD E-132.
- THE EMERGENCY CONTACT TELEPHONE NUMBER IS 1-888-565-8133.
- PLACE A MINIMUM OF (3) I-13a SIGNS ONE ON EACH SIDE OF THE CROSSING AND ONE ON THE SIGNAL CASE OR HOUSE.



TYPICAL RAILROAD SIGNAL DETAIL
NTS

RAILROAD SIGNAL MAST NOTES:

- A STRIP OF ASTM TYPE III OR TYPE V RETROREFLECTIVE WHITE MATERIAL NOT LESS THAN 2 INCHES IN WIDTH, SHALL BE USED ON EACH SUPPORT AT HIGHWAY-RAIL GRADE CROSSING FOR THE FULL LENGTH OF THE FRONT AND BACK OF THE SUPPORT FROM THE CROSSBUCK SIGN OR NUMBER OF TRACKS SIGN TO NEAR GROUND LEVEL.
- FLASHING LIGHT SIGNAL EQUIPMENT SHALL BE NEW 12" LED FLASHING LIGHT UNITS MOUNTED ON THE CROSSING SIGNAL MAST.
- FOR CROSS BUCK SIGN (R15-1) SEE VAOT STANDARD SHEET E-190.
- FOR THE SIGNAL MASTS AT RAILROAD STATION 100+18RT AND 99+73RT PROVIDE AN ADDITIONAL 30 FEET OF COILED SIGNAL WIRE AT THE SIGNAL MAST BASE. THE COILED SIGNAL WIRE IS TO BE BURIED IN THE GROUND AND WOULD PROVIDE FOR A FUTURE RELOCATION OF THE SIGNAL MAST TO ACCOMMODATE A SECOND TRACK IN THE CROSSING.
- TOP OF FOUNDATION TO BE AT THE SAME ELEVATION AS THE CROWN OF THE ROADWAY AND NO MORE THAN 4 INCHES ABOVE THE SURFACE OF THE GROUND.



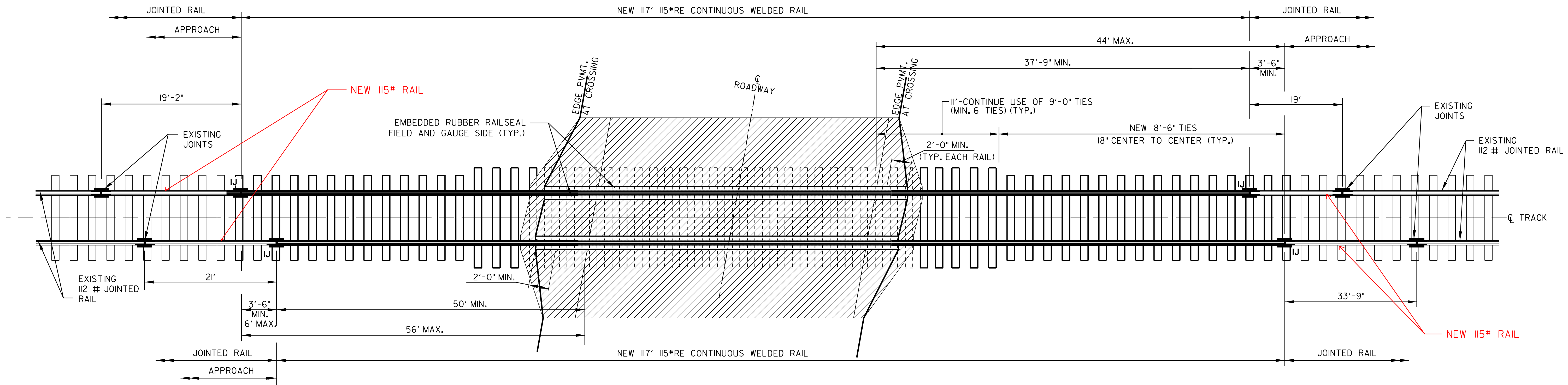
TYPICAL FOUNDATION DETAIL

NTS

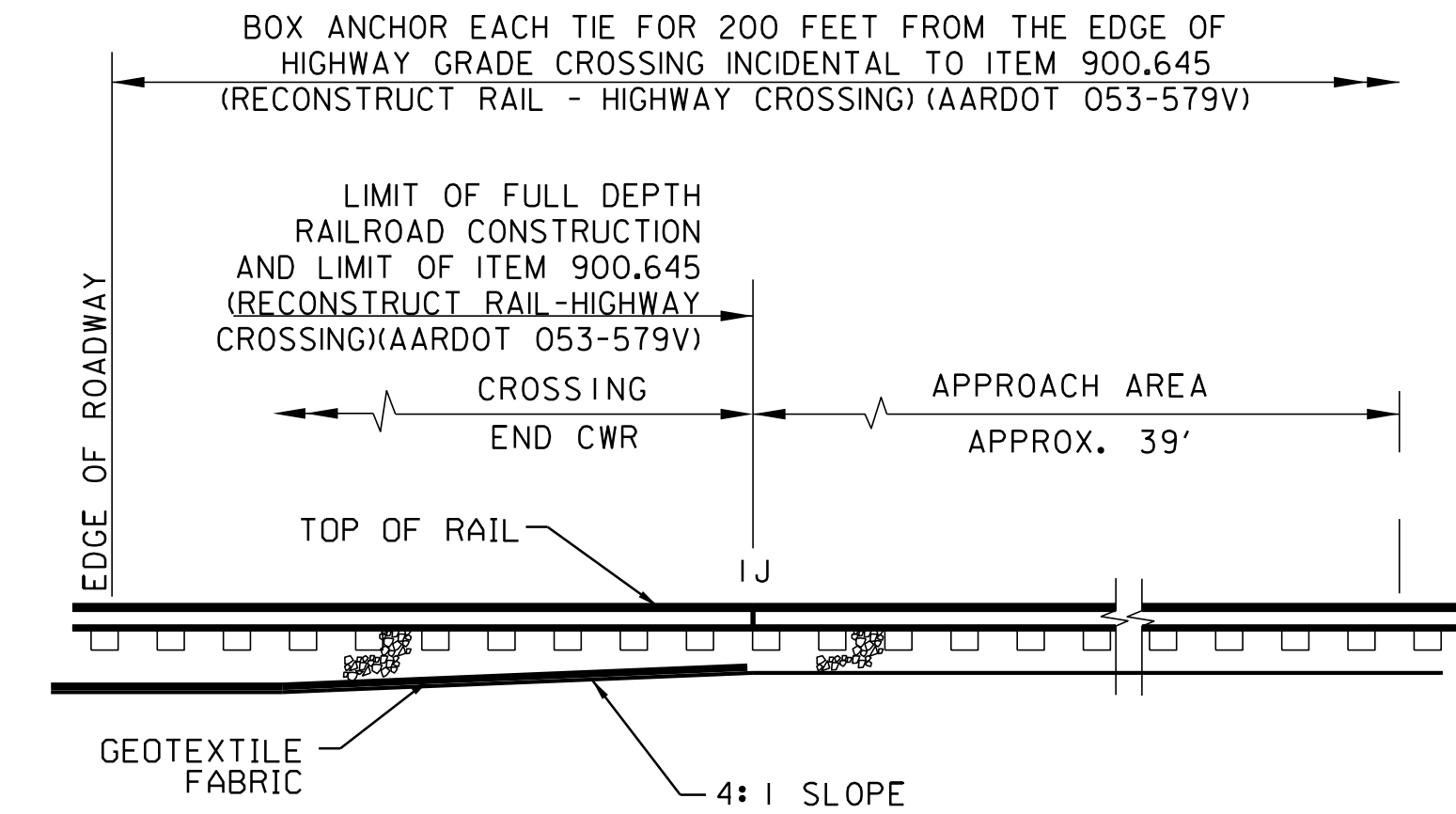
SEE AREMA SIGNAL MANUAL SECTION 14.4 FOR ADDITIONAL FOUNDATION INFORMATION.

CROSSING DETAILS 1

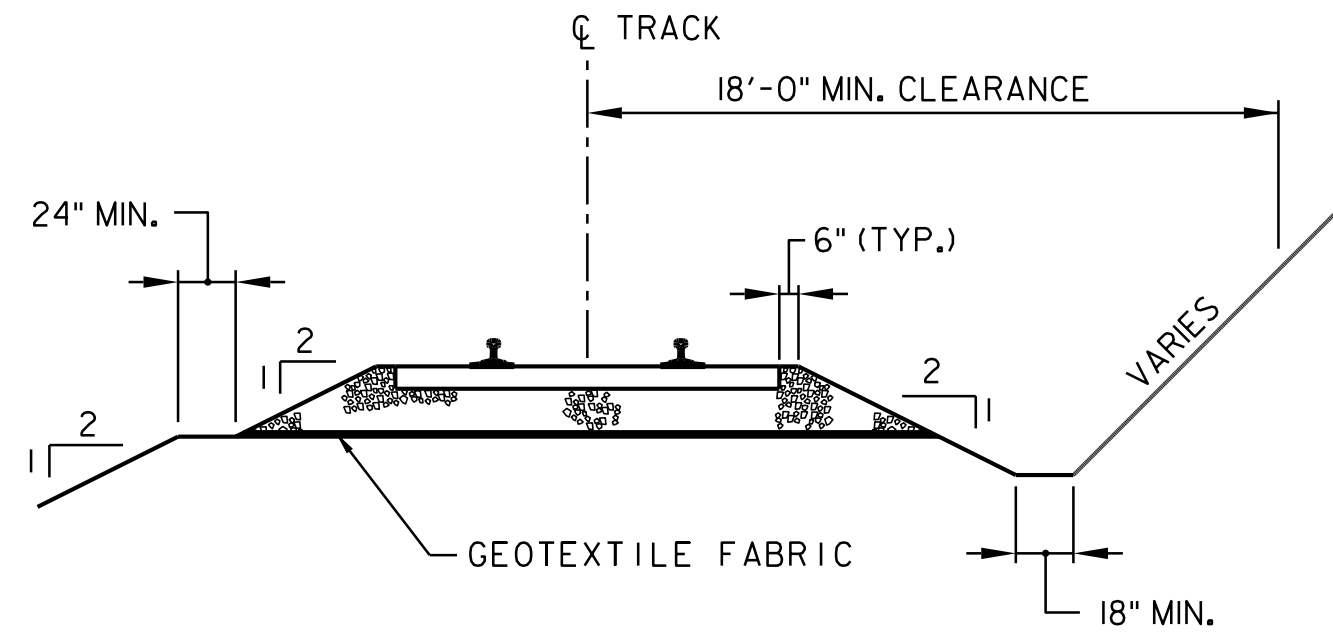
PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:50
PROJECT LEADER: PTS	DRAWN BY: ABR
DESIGNED BY: JHR	CHECKED BY: JHR
IPARM FILE NAME: 10B236.38X	SHEET 38 OF 105



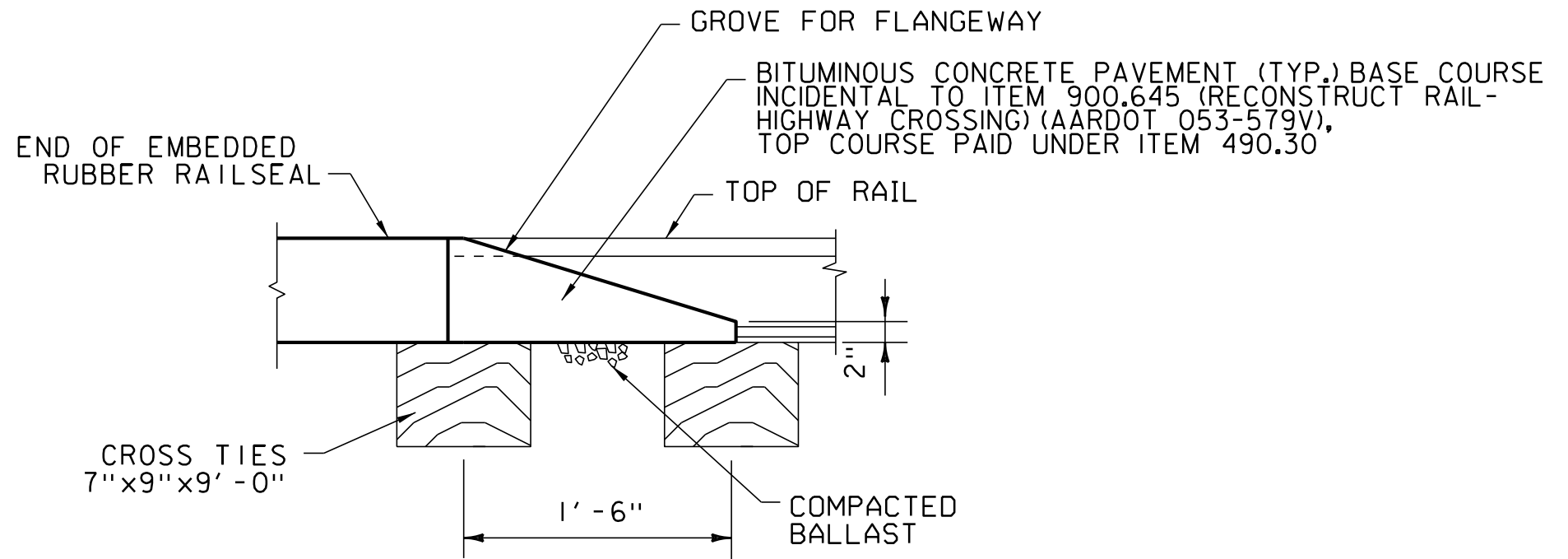
RAILROAD CWR, TIES, AND JOINTS PLAN
N.T.S.



TYPICAL BALLAST TRANSITION
N.T.S.

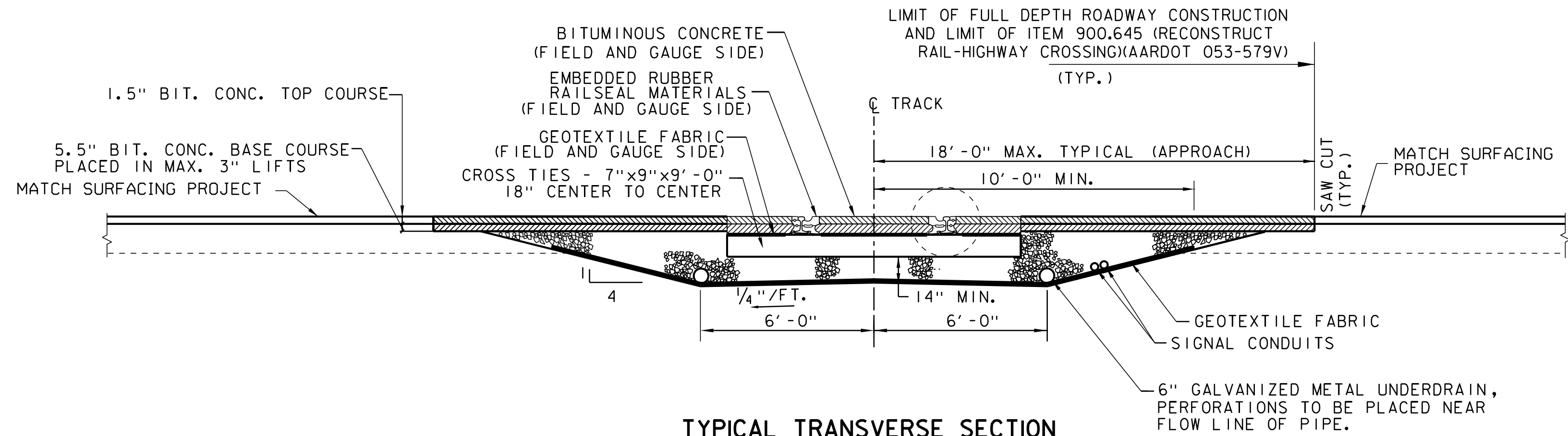


TYPICAL APPROACH SECTION
N.T.S.

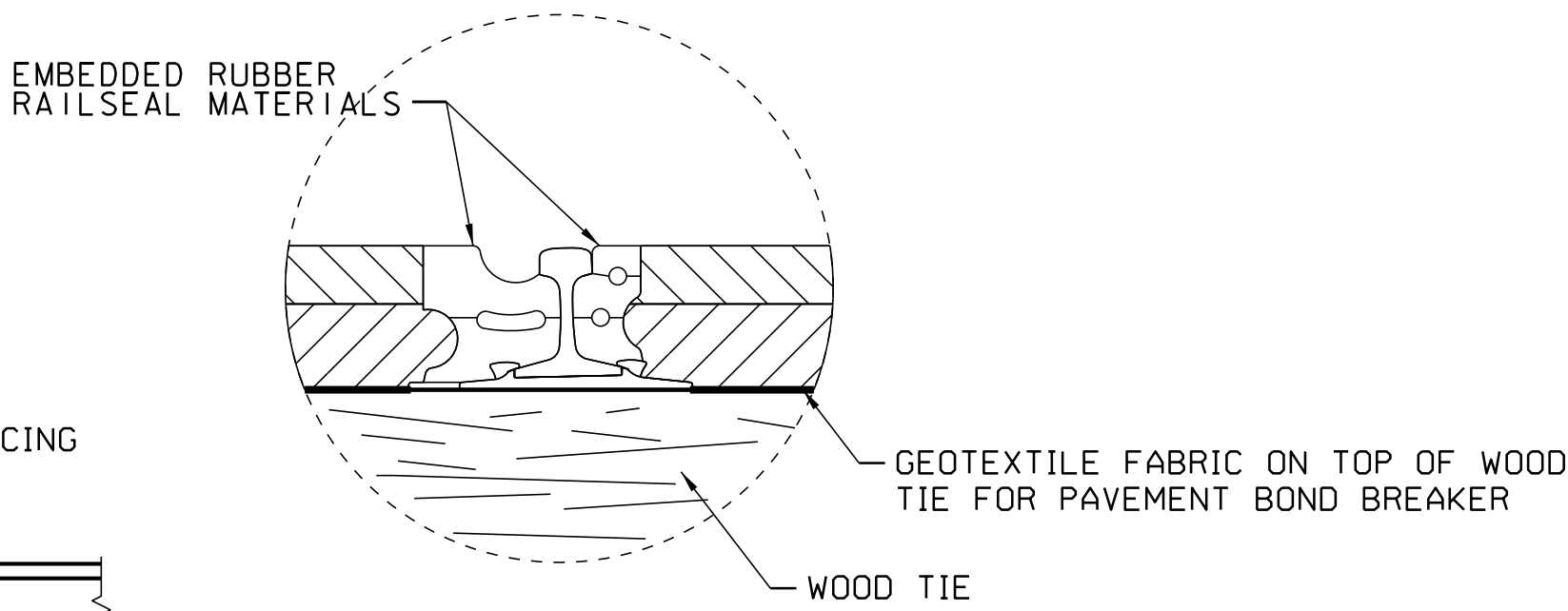


EMBEDDED RUBBER RAILSEAL END SIDE VIEW
N.T.S.

NOTE: GAUGE SIDE SHOWN (FIELD SIDE SIMILAR)



TYPICAL TRANSVERSE SECTION
N.T.S.



CROSSING DETAILS 2

PROJECT NAME:	BRADFORD	FILE NAME:	pl0b236.dgn	PLOT DATE:	03-SEP-2014 12:50
PROJECT NUMBER:	STP 2917(I)	PROJECT LEADER:	PTS	DRAWN BY:	ABR
		DESIGNED BY:	JHR	CHECKED BY:	JHR
		IPARM FILE NAME:	IOB236.39	SHEET	39 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
0+38 TO 5+00 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
0+38 TO 5+00 SOLID LT & RT

HD STEEL BEAM GUARDRAIL, GALVANIZED
0+36 TO 0+67.3 LT
0+36 TO 0+67.3 RT

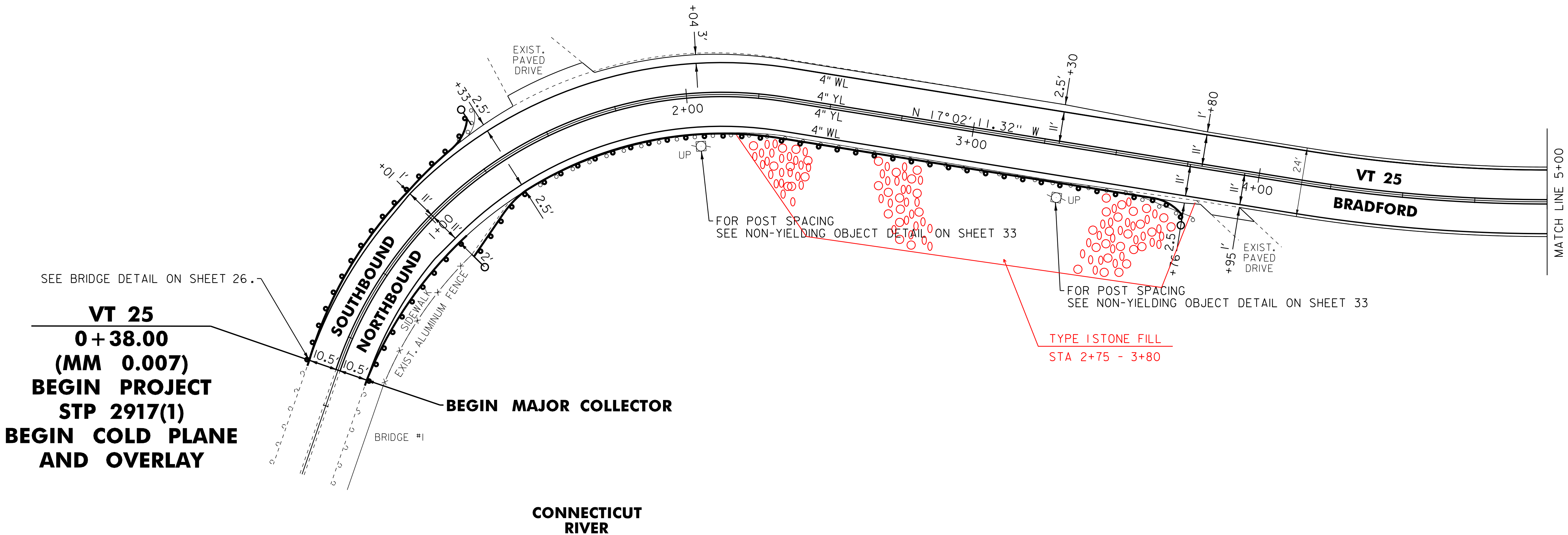
STEEL BEAM GUARDRAIL, GALVANIZED
0+67.3 TO 1+29.8 LT
0+67.3 TO 1+04.8 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
1+01 TO 3+76 RT

ANCHOR FOR STEEL BEAM RAIL
1+01 RT
1+04.8 RT
1+29.8 LT
3+76 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
0+36 TO 1+33 LT
0+36 TO 1+01 RT
1+01 TO 3+80 RT

DELINEATOR WITH STEEL POST
1+01 RT
1+30 LT
3+76 RT



NOT TO SCALE

ROADWAY LAYOUT 1 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(1)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_40

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 40 OF 105

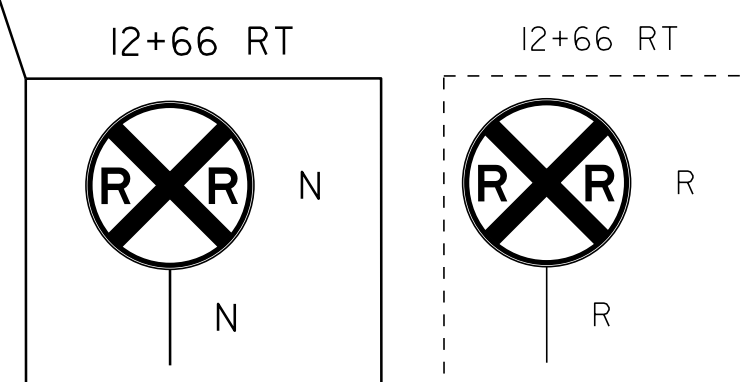
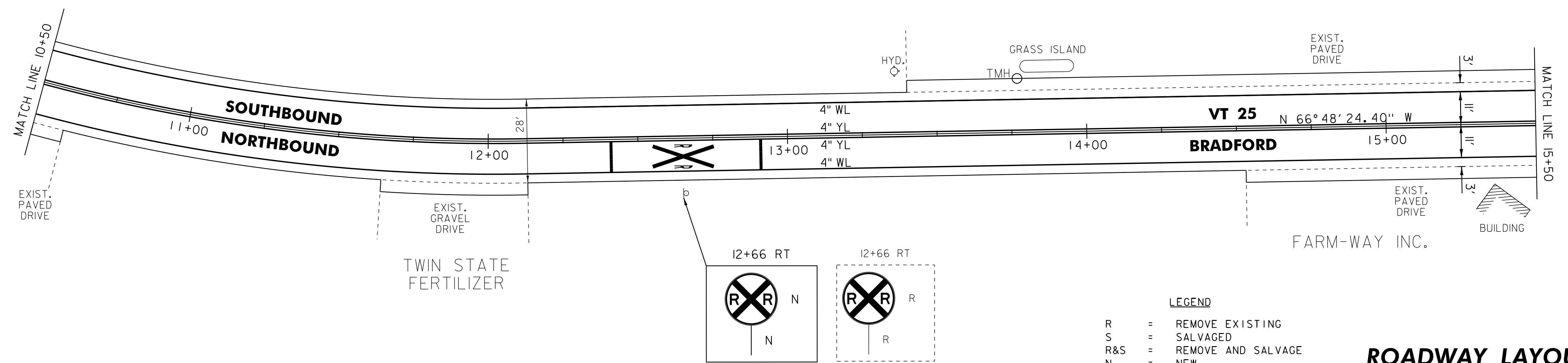
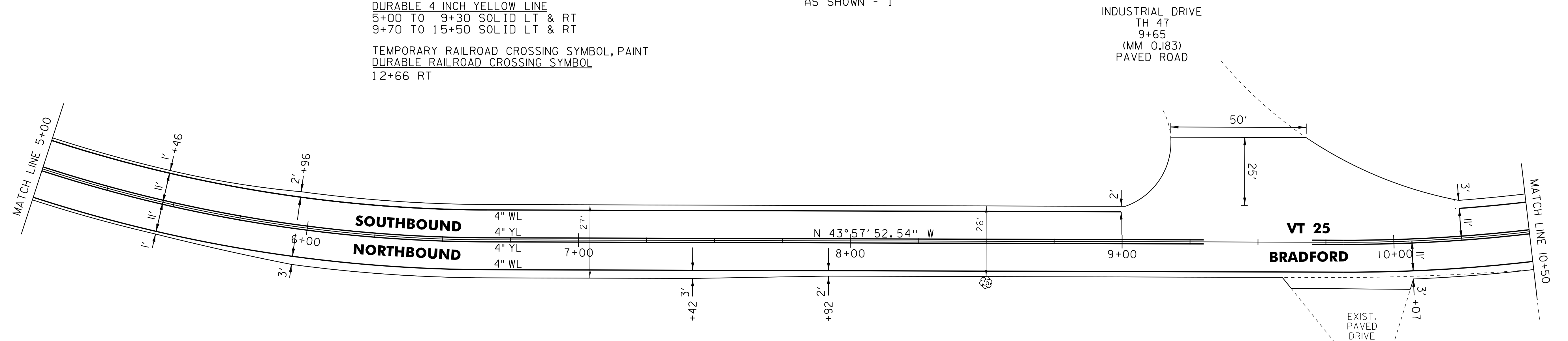
TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
5+00 TO 9+00 SOLID LT
5+00 TO 15+50 SOLID RT
10+25 TO 15+50 SOLID LT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
5+00 TO 9+30 SOLID LT & RT
9+70 TO 15+50 SOLID LT & RT

TEMPORARY RAILROAD CROSSING SYMBOL, PAINT
DURABLE RAILROAD CROSSING SYMBOL
12+66 RT

CHANGING ELEVATION OF DROP
INLETS, CATCH BASINS, OR MANHOLES
(TO BE ADJUSTED BY OTHERS)
13+77 LT (TMH)

REMOVING SIGNS
AS SHOWN - 1



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - EXISTING GUARDRAIL
 - PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - DELINATOR
 - RUMBLE STRIP

ROADWAY LAYOUT 2 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_4i

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 41 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
15+50 TO 24+50 SOLID LT
15+50 TO 24+50 SOLID RT
23+58 TO 24+50 DOTTED RT (LANE LINE)

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
15+50 TO 21+84 SOLID LT & RT
21+84 TO 23+18 DOUBLE SOLID LT
21+84 TO 23+18 DOUBLE SOLID RT
23+58 TO 24+50 DOUBLE SOLID LT
23+58 TO 24+50 DOUBLE SOLID RT

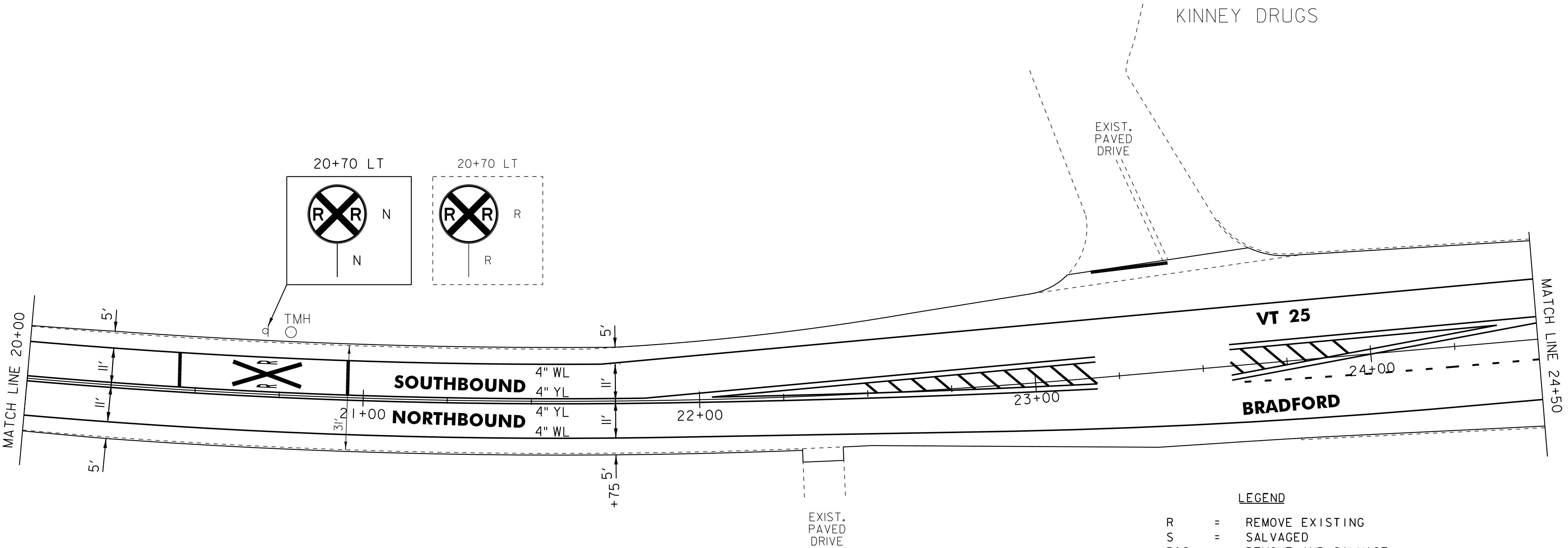
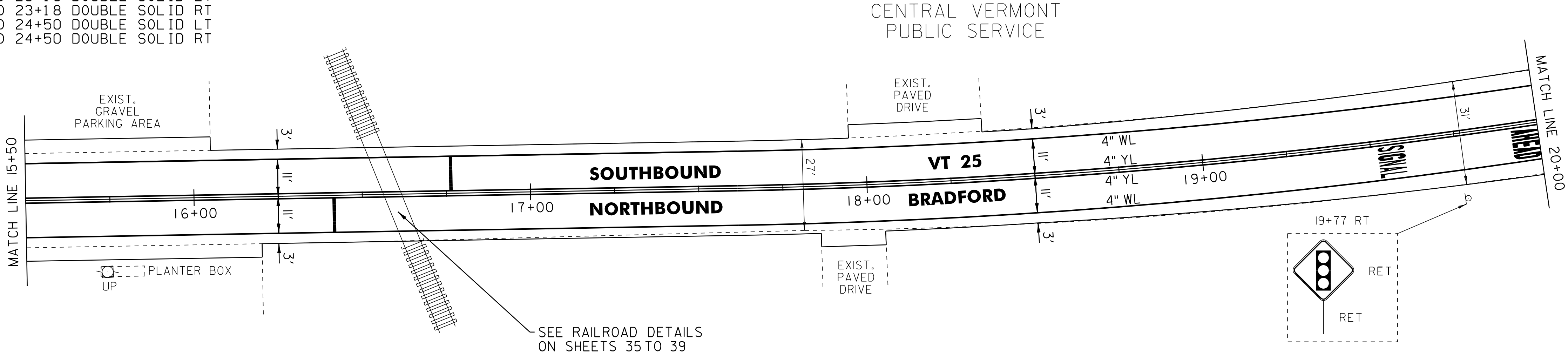
DURABLE 8 INCH YELLOW LINE
22+04 TO 23+18 SOLID LT (DIAGONALS)
23+58 TO 24+38 SOLID LT (DIAGONALS)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
19+56 RT - "SIGNAL"
19+96 RT - "AHEAD"

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
23+19 TO 23+42 LT

TEMPORARY RAILROAD CROSSING SYMBOL, PAINT
DURABLE RAILROAD CROSSING SYMBOL
20+70 LT

REMOVING SIGNS
AS SHOWN - 1



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||| = RUMBLE STRIP

ROADWAY LAYOUT 3 VT 25

PROJECT NAME: BRADFORD
PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn
PROJECT LEADER: PTS
DESIGNED BY: NLL
IPARM FILE NAME: pl0b236_42

PLOT DATE: 03-SEP-2014 12:50
DRAWN BY: SNG
CHECKED BY: PTS
SHEET 42 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
24+50 TO 25+61 SOLID LT
24+50 TO 26+32 SOLID RT
24+50 TO 24+54 DOTTED RT (LANE LINE)
24+54 TO 25+54 SOLID RT (LANE LINE)
26+21 TO 29+50 SOLID LT
26+75 TO 27+75 SOLID LT (LANE LINE)
27+02 TO 29+50 SOLID RT
27+75 TO 28+75 DOTTED LT (LANE LINE)
U70+25 TO U70+69 SOLID RT
U70+25 TO U70+73 SOLID RT (LANE LINE)
U70+25 TO U71+19 SOLID LT
U72+19 TO U73+25 SOLID RT
U72+52 TO U73+25 SOLID LT (LANE LINE)
U72+82 TO U73+25 SOLID LT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
24+50 TO 25+54 DOUBLE SOLID LT
26+75 TO 29+50 DOUBLE SOLID RT
27+75 TO 29+50 DOUBLE SOLID LT & RT
U70+25 TO U70+73 SOLID LT & RT (ISLAND)
U72+25 TO U73+25 SOLID LT & RT (ISLAND)

REMOVAL OF EXISTING CURB
24+52 TO 25+68 LT
24+52 TO 25+68 RT
26+58 TO 27+61 LT
26+58 TO 27+61 RT
U70+62 TO U71+03 LT
U70+62 TO U71+03 RT
U72+18 TO U72+98 RT
U72+18 TO U72+98 RT

REMOVING AND RESETTNG CURB
U70+60 TO U70+62 LT
U72+98 TO U73+00 RT

DURABLE LETTER OR SYMBOL
24+58 RT - LEFT TURN ARROW
24+58 RT - RIGHT TURN ARROW
24+60 RT - THRU ARROW
25+02 RT - "ONLY"
25+41 RT - RIGHT TURN ARROW
25+43 RT - THRU ARROW
25+46 RT - LEFT TURN ARROW
26+83 LT - LEFT TURN ARROW
26+85 LT - THRU ARROW
26+87 LT - RIGHT TURN ARROW
27+27 LT - "ONLY"
27+69 LT - THRU ARROW
27+71 LT - RIGHT TURN ARROW
27+71 LT - LEFT TURN ARROW
U70+60 RT - RIGHT TURN ARROW
U70+62 RT - THRU ARROW
U70+65 RT - LEFT TURN ARROW
U72+60 LT - LEFT TURN ARROW
U72+63 LT - THRU ARROW
U72+66 LT - RIGHT TURN ARROW
U73+25 LT - "ONLY"

TEMPORARY LETTER OR SYMBOL, PAINT
24+58 RT - LEFT TURN ARROW
24+58 RT - RIGHT TURN ARROW
24+60 RT - THRU ARROW
25+41 RT - RIGHT TURN ARROW
25+43 RT - THRU ARROW
25+46 RT - LEFT TURN ARROW
26+83 LT - LEFT TURN ARROW
26+85 LT - THRU ARROW
26+87 LT - RIGHT TURN ARROW
27+69 LT - THRU ARROW
27+71 LT - RIGHT TURN ARROW
27+71 LT - LEFT TURN ARROW
U70+60 RT - RIGHT TURN ARROW
U70+62 RT - THRU ARROW
U70+65 RT - LEFT TURN ARROW
U72+60 LT - LEFT TURN ARROW
U72+63 LT - THRU ARROW
U72+66 LT - RIGHT TURN ARROW

DURABLE 8 INCH YELLOW LINE
27+88 TO 29+50 SOLID LT (DIAGONALS)
U70+60 TO U70+73 SOLID LT TO RT (DIAGONALS)
U72+25 TO U72+98 SOLID LT TO RT (DIAGONALS)

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
25+54 LT & RT
26+75 LT & RT
U70+73 LT & RT
U72+52 TO U72+57 LT

COMMON EXCAVATION
24+51 TO 25+69 LT & RT (ISLAND)
26+57 TO 27+62 LT & RT (ISLAND)
U70+60 TO U71+03 LT (ISLAND)
U72+18 TO U73+00 RT (ISLAND)

PAINTED CURB
U70+32 TO U70+62 LT & RT (ISLAND)
U72+98 TO U73+25 LT & RT (ISLAND)

REHAB. DROP INLETS
CATCH BASINS, OR MANHOLES,
CLASS I, CLASS II
25+89 RT (DI)
26+52 LT (DI)
26+67 RT (DI)
27+09 RT (DI)

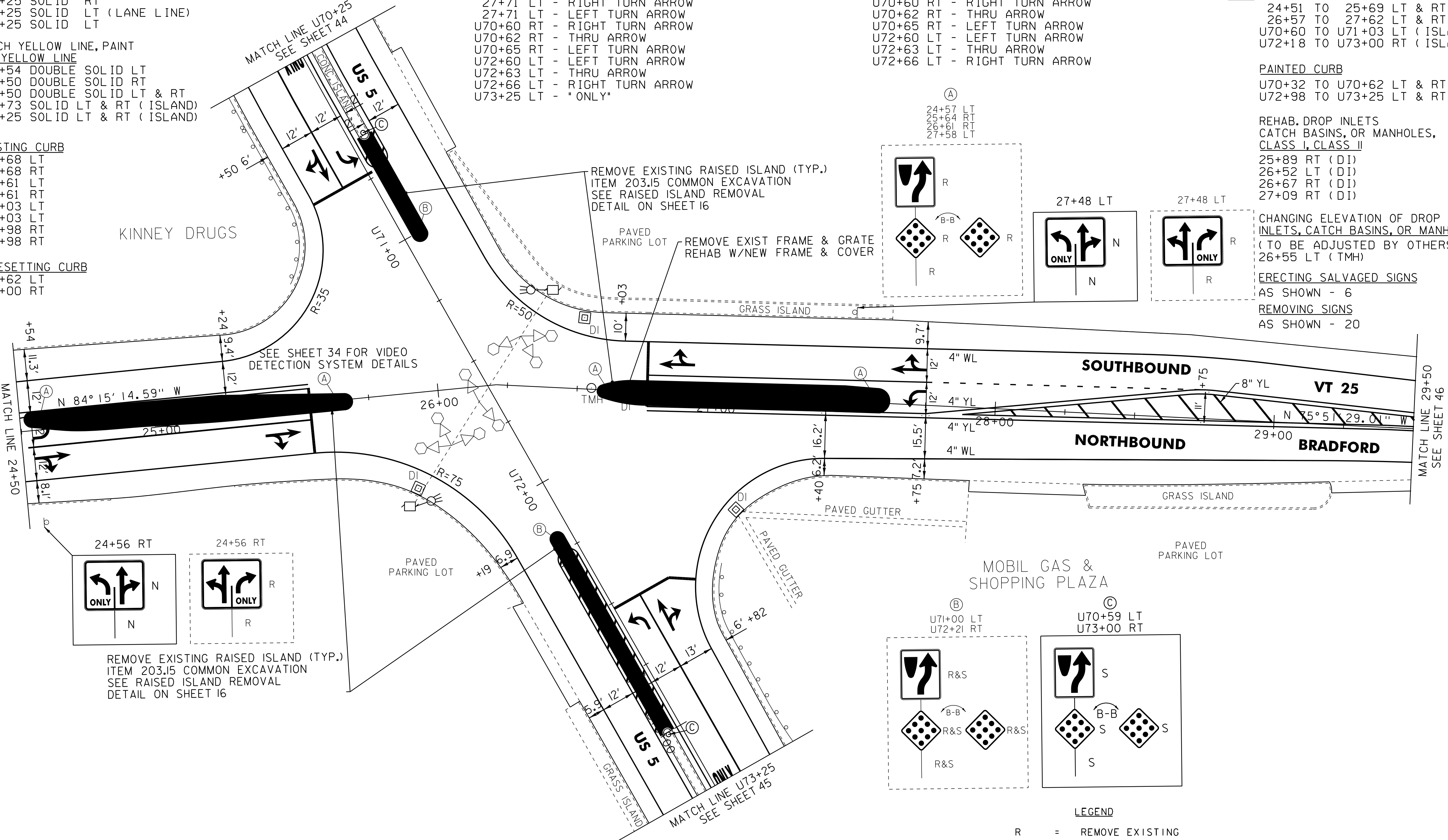
CHANGING ELEVATION OF DROP
INLETS, CATCH BASINS, OR MANHOLES
(TO BE ADJUSTED BY OTHERS)
26+55 LT (TMH)

ERECTING SALVAGED SIGNS

AS SHOWN - 6

REMOVING SIGNS

AS SHOWN - 20



LEGEND
R = REMOVE EXISTING
S = SALVAGED
R&S = REMOVE AND SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
= EXISTING GUARDRAIL
= PROPOSED GUARDRAIL
YL = YELLOW LINE
WL = WHITE LINE
= DELINEATOR
||||| = RUMBLE STRIP

ROADWAY LAYOUT 4 VT 25

PROJECT NAME: BRADFORD
PROJECT NUMBER: STP 2917(I)
FILE NAME: p10b236.dgn
PROJECT LEADER: PTS
DESIGNED BY: NLL
IPARM FILE NAME: p10b236_43
PLOT DATE: 03-SEP-2014 12:50
DRAWN BY: SNG
CHECKED BY: PTS
SHEET 43 OF 105

NOT TO SCALE

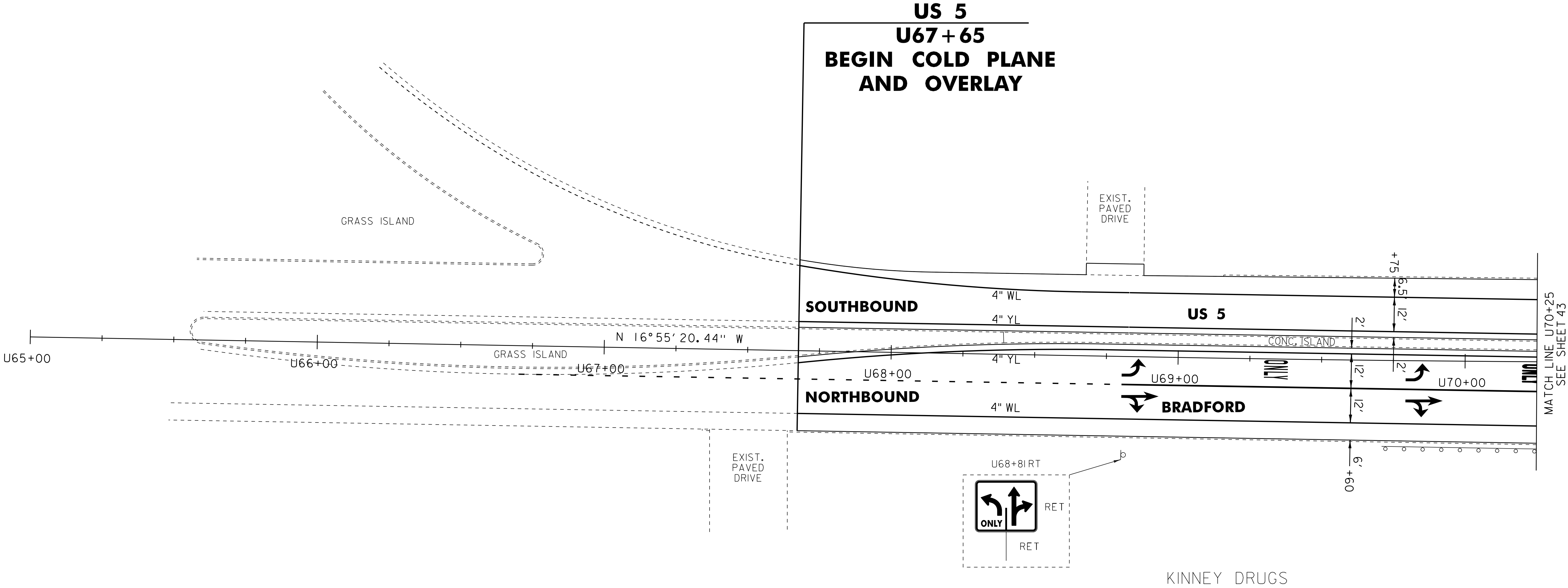
TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
U66+68 TO U68+80 DOTTED RT (LANE LINE)
U67+65 TO U70+25 SOLID LT
U67+65 TO U70+25 SOLID RT
U68+80 TO U70+25 SOLID RT (LANE LINE)

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
U67+65 TO U70+25 SOLID LT & RT

DURABLE LETTER OR SYMBOL
U68+84 RT - RIGHT TURN ARROW
U68+84 RT - LEFT TURN ARROW
U68+86 RT - THRU ARROW
U69+34 RT - "ONLY"
U69+84 RT - RIGHT TURN ARROW
U69+84 RT - LEFT TURN ARROW
U69+86 RT - THRU ARROW
U70+24 RT - "ONLY"

TEMPORARY LETTER OR SYMBOL, PAINT
U68+84 RT - RIGHT TURN ARROW
U68+84 RT - LEFT TURN ARROW
U68+86 RT - THRU ARROW

PAINTED CURB
U67+92 TO U68+52 RT & LT (ISLAND)



LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
	= DELINEATOR
	= RUMBLE STRIP

ROADWAY LAYOUT 4A US 5

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10b236_44

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: WWG

CHECKED BY: PTS

SHEET 44 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
U73+25 TO U77+55 SOLID LT
U73+25 TO U77+55 SOLID RT
U73+25 TO U75+25 SOLID LT (LANE LINE)
U75+25 TO U77+55 DOTTED LT (LANE LINE)

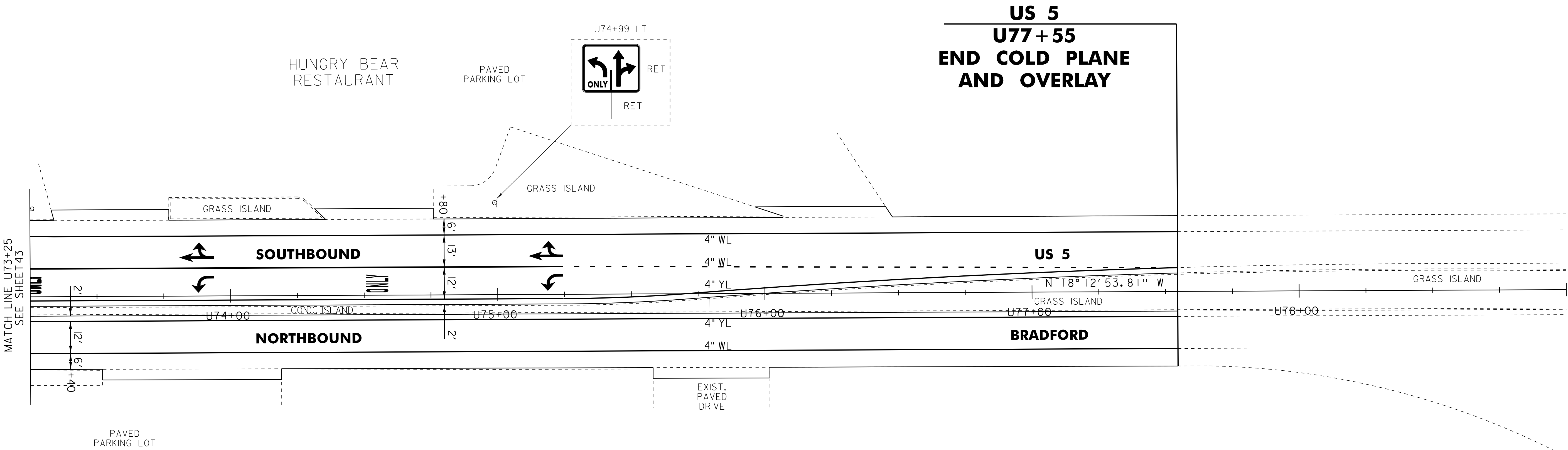
TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
U73+25 TO U77+55 SOLID LT & RT

DURABLE LETTER OR SYMBOL
U73+88 LT - THRU ARROW
U73+90 LT - LEFT TURN ARROW
U73+90 LT - RIGHT TURN ARROW
U74+55 LT - "ONLY"
U75+18 LT - THRU ARROW
U75+21 LT - RIGHT TURN ARROW
U75+21 LT - LEFT TURN ARROW

TEMPORARY LETTER OR SYMBOL, PAINT
U75+18 LT - THRU ARROW
U75+21 LT - RIGHT TURN ARROW
U75+21 LT - LEFT TURN ARROW

PAINTED CURB
U73+25 TO U73+28 LT & RT (ISLAND)
U75+18 TO U77+55 LT & RT (ISLAND)

SEE REVISED SHEET



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - Y— = YELLOW LINE
 - W— = WHITE LINE
 - = DELINEATOR
 - ||||| = RUMBLE STRIP

ROADWAY LAYOUT 4B US 5

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10b236_45

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: WWG

CHECKED BY: PTS

SHEET 45 OF 105

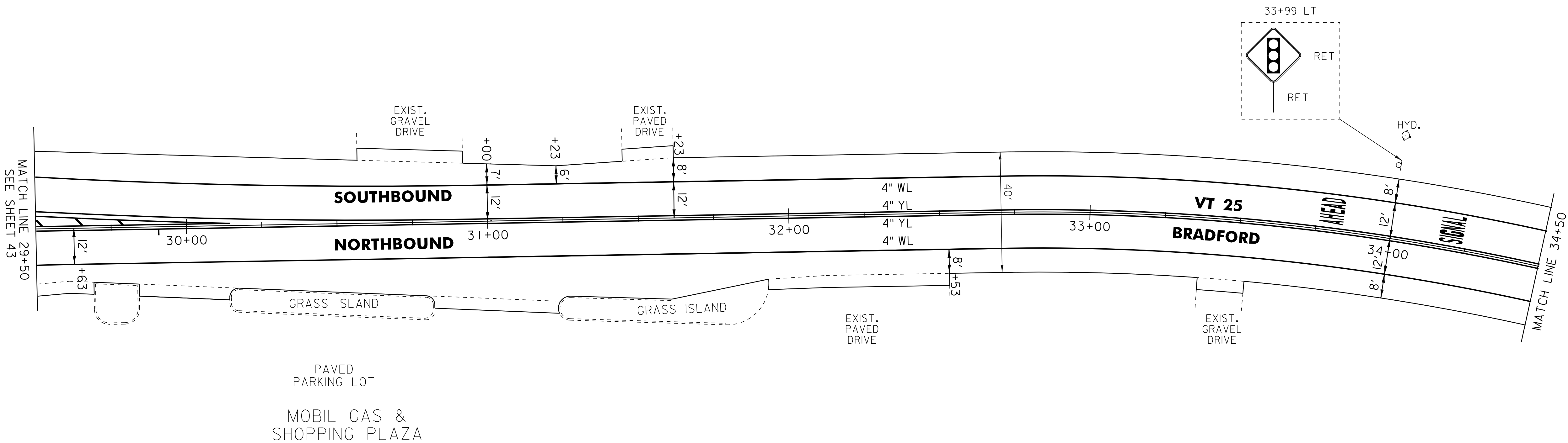
NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
29+50 TO 34+50 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
29+50 TO 30+92 DOUBLE SOLID LT
29+50 TO 34+50 SOLID LT & RT

DURABLE 8 INCH YELLOW LINE
29+50 TO 30+14 LT (DIAGONALS)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
33+79 LT - "AHEAD"
34+19 LT - "SIGNAL"



LEGEND

- R = REMOVE EXISTING
- S = SALVAGED
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = EXISTING GUARDRAIL
- = PROPOSED GUARDRAIL
- YL = YELLOW LINE
- WL = WHITE LINE
- = DELINEATOR
- ||||| = RUMBLE STRIP

ROADWAY LAYOUT 5 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10b236_46

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 46 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
34+50 TO 36+02 SOLID LT
34+50 TO 45+00 SOLID RT
36+02 TO 36+30 SOLID LT (TH 50)
36+48 TO 36+76 SOLID LT (TH 50)
36+76 TO 45+00 SOLID LT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
34+50 TO 36+19 SOLID LT & RT
36+39 DOUBLE SOLID LT (TH 50)
36+59 TO 45+00 SOLID LT & RT

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
36+24 TO 36+38 LT (TH 50)
TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
36+34 LT - "STOP" (TH 50)

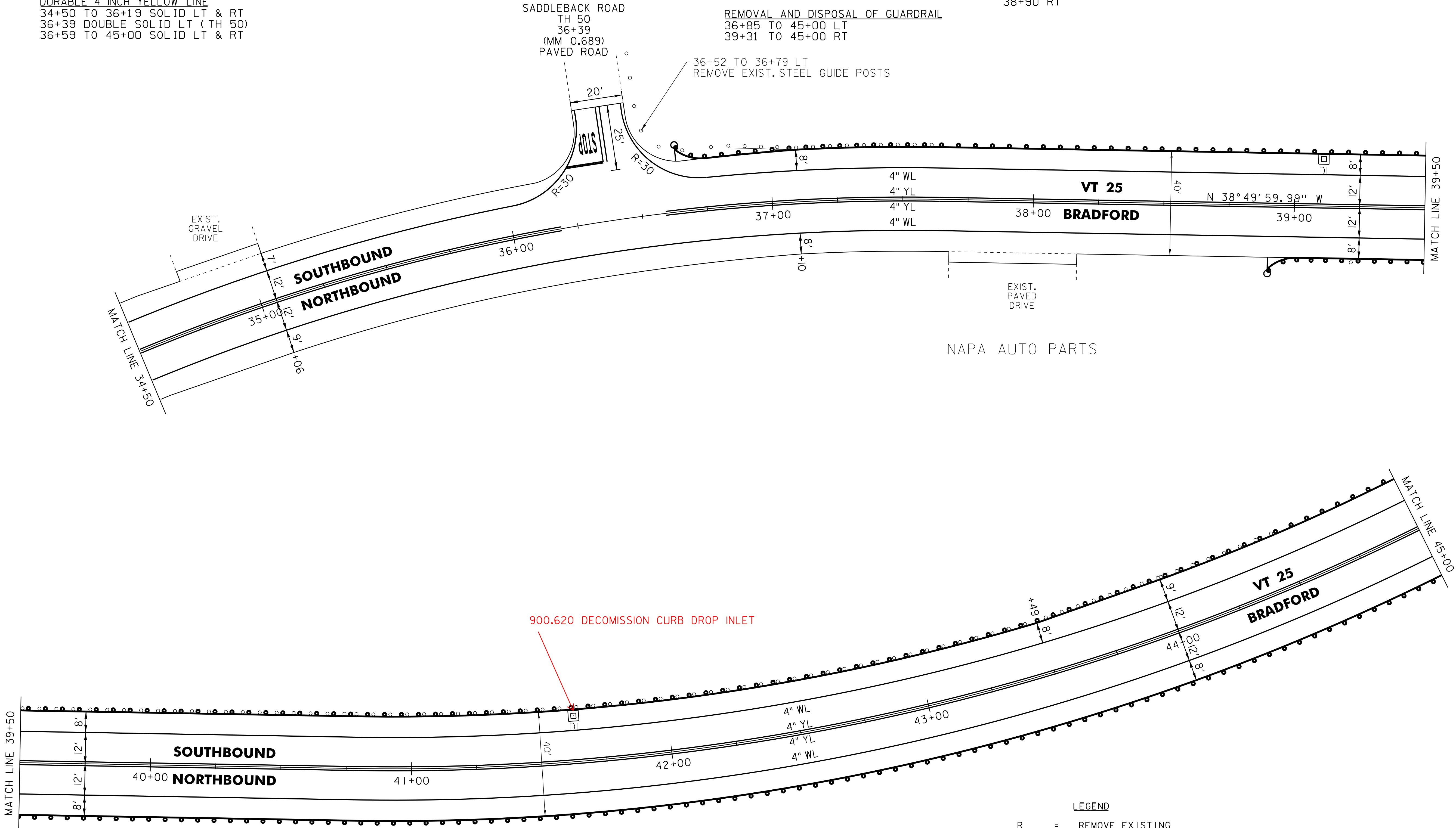
REHAB. DROP INLETS
CATCH BASINS, OR MANHOLES,
CLASS I, CLASS II
39+11 LT (DI)
~~41+64 LT (DI)~~

STEEL BEAM GUARDRAIL, GALVANIZED
36+65 TO 45+00 LT
38+90 TO 45+00 RT
REMOVAL AND DISPOSAL OF GUARDRAIL
36+85 TO 45+00 LT
39+31 TO 45+00 RT

ANCHOR FOR STEEL BEAM RAIL
36+65 LT
38+90 RT

REMOVAL AND DISPOSAL OF GUIDE POSTS
36+52 TO 36+79 LT (7)

DELINEATOR WITH STEEL POST
36+65 LT
38+90 RT



NOT TO SCALE

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||| = RUMBLE STRIP

ROADWAY LAYOUT 6 VT 25

PROJECT NAME:	BRADFORD
PROJECT NUMBER:	STP 2917(I)
FILE NAME:	pl0b236.dgn
PROJECT LEADER:	PTS
DESIGNED BY:	NLL
IPARM FILE NAME:	pl0b236_47
PLOT DATE:	03-SEP-2014 12:50
DRAWN BY:	SNG
CHECKED BY:	PTS
SHEET	47 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
45+00 TO 50+50 SOLID LT
45+00 TO 48+98 SOLID RT
48+98 TO 49+21 SOLID RT (TH 27)
49+57 TO 49+97 SOLID RT (TH 27)
49+75 TO 50+50 SOLID LT (LANE LINE)
49+97 TO 50+50 SOLID RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
45+00 TO 46+42 SOLID LT & RT
46+42 TO 49+00 DOUBLE SOLID LT (ISLAND)
46+42 TO 49+00 DOUBLE SOLID RT (ISLAND)
49+39 TO 49+41 DOUBLE SOLID RT (TH 27)
49+95 TO 50+50 DOUBLE SOLID RT (ISLAND)
49+95 TO 50+50 DOUBLE SOLID RT (ISLAND)

DURABLE 8 INCH YELLOW LINE
46+42 TO 49+00 LT&RT (DIAGONALS)
49+95 TO 50+50 RT (DIAGONALS)

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
49+42 TO 49+68 RT (TH 27)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
49+52 RT - "STOP" (TH 27)
50+03 LT - LEFT TURN ARROW

MILLED RUMBLE STRIPS
47+00 TO 48+90 LT
47+00 TO 48+90 RT
50+00 TO 50+50 RT
50+00 TO 50+50 RT

COMMON EXCAVATION
48+17 TO 49+14 LT & RT (ISLAND)
49+93 TO 50+50 LT & RT (ISLAND)

REMOVAL OF EXISTING CURB
48+17 TO 49+14 LT
48+17 TO 49+14 RT
49+93 TO 50+50 RT
49+93 TO 50+50 RT

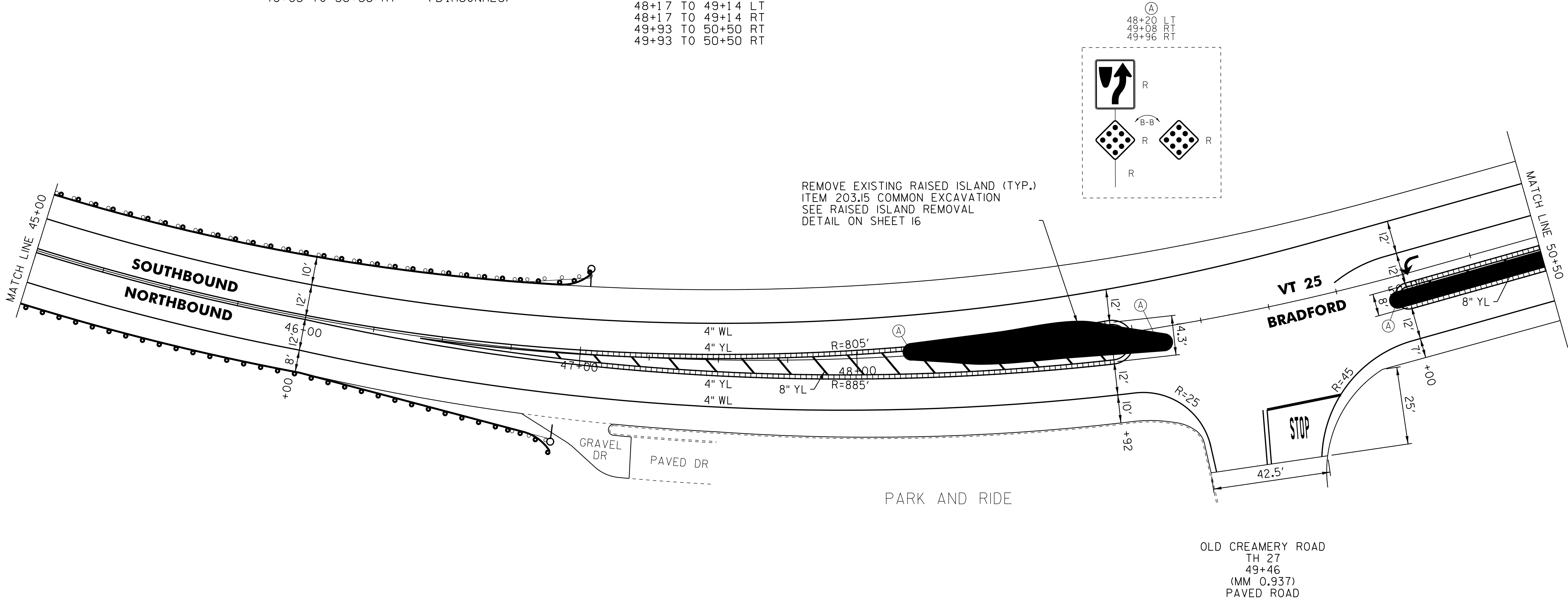
STEEL BEAM GUARDRAIL, GALVANIZED
45+00 TO 47+02.5 LT
45+00 TO 46+90 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
45+00 TO 47+02 LT
45+00 TO 46+92 RT

ANCHOR FOR STEEL BEAM RAIL
46+90 RT
47+02.5 LT

DELINEATOR WITH STEEL POST
46+90 RT
47+02.5 LT

REMOVING SIGNS
AS SHOWN - 9



LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
	= DELINEATOR
	= RUMBLE STRIP

ROADWAY LAYOUT 7 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: p10b236.dgn
PROJECT LEADER: PTS
DESIGNED BY: NLL
IPARM FILE NAME: p10b236_48

PLOT DATE: 03-SEP-2014 12:50
DRAWN BY: SNG
CHECKED BY: PTS
SHEET 48 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
50+50 TO 52+12 SOLID LT
50+50 TO 52+31 SOLID RT
50+50 TO 51+70 SOLID LT (LANE LINE)
51+70 TO 53+65 DOTTED LT (LANE LINE)
52+56 TO 53+44 SOLID LT
52+93 TO 53+91 SOLID RT
53+75 TO 55+00 SOLID LT
54+14 TO 55+00 SOLID RT
54+20 TO 55+00 SOLID LT (LANE LINE)

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
50+50 TO 53+75 DOUBLE SOLID LT (ISLAND)
50+50 TO 53+75 DOUBLE SOLID RT (ISLAND)
54+40 TO 55+00 DOUBLE SOLID RT (ISLAND)
54+40 TO 55+00 DOUBLE SOLID RT (ISLAND)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE
52+12 TO 52+06 SOLID LT (RAMP A)
52+31 TO 54+75 SOLID RT (RAMP B)
52+81 TO 53+50 SOLID LT (RAMP A)
53+91 TO 54+17 SOLID RT (RAMP B)

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE
52+20 TO 53+75 SOLID LT (RAMP A)
52+45 TO 52+81 SOLID LT (RAMP A)
52+85 TO 54+17 SOLID RT (RAMP B)
54+14 TO 54+83 SOLID RT (RAMP B)

TEMPORARY 8 INCH WHITE LINE, PAINT
DURABLE 8 INCH WHITE LINE
52+35 TO 52+45 SOLID LT (RAMP A)
52+35 TO 52+56 SOLID LT (VT 25)
52+71 TO 52+85 SOLID RT (RAMP B)
52+71 TO 52+93 SOLID RT (VT 25)
53+44 TO 53+58 SOLID LT (VT 25)
53+50 TO 53+58 SOLID LT (RAMP A)

DURABLE 8 INCH YELLOW LINE
50+50 TO 53+75 SOLID LT&RT (DIAGONALS)
54+40 TO 55+00 SOLID RT (DIAGONALS)

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
53+52 TO 53+67 LT (RAMP A)

DURABLE LETTER OR SYMBOL
50+57 LT - "ONLY"
51+12 LT - LEFT TURN ARROW
51+66 LT - "ONLY"
52+50 LT - YIELD MARKINGS (5) (RAMP A)
53+54 LT - "STOP"
53+80 RT - YIELD MARKINGS (5) (RAMP B)
54+48 LT - LEFT TURN ARROW

TEMPORARY LETTER OR SYMBOL, PAINT
51+12 LT - LEFT TURN ARROW
52+50 LT - YIELD MARKINGS (5) (RAMP A)
53+54 LT - "STOP"
53+80 RT - YIELD MARKINGS (5) (RAMP B)
54+48 LT - LEFT TURN ARROW

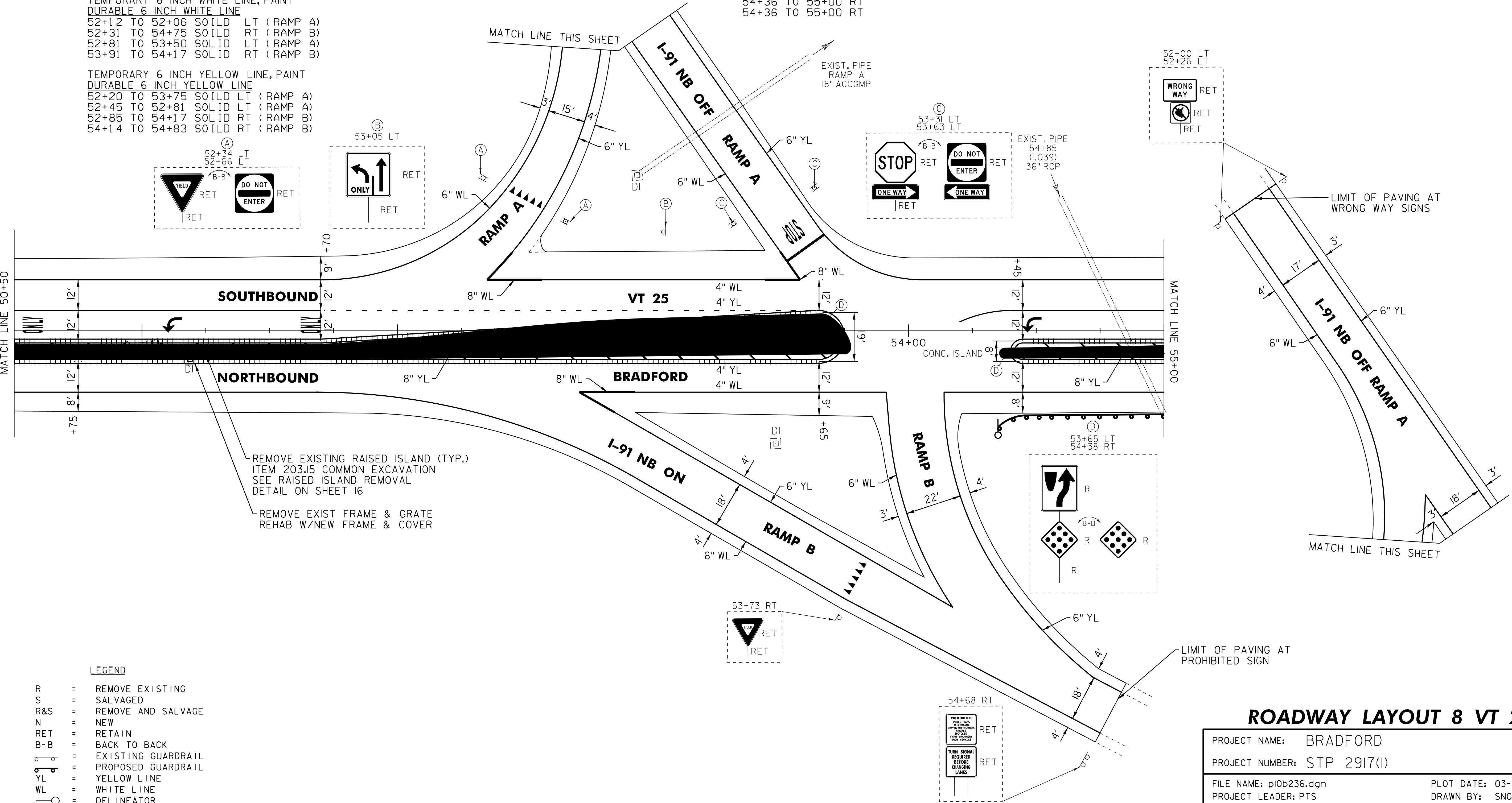
REMOVAL OF EXISTING CURB
50+50 TO 53+77 RT
50+50 TO 53+77 RT & LT
54+36 TO 55+00 RT
54+36 TO 55+00 RT

MILLED RUMBLE STRIPS
50+50 TO 53+65 RT
50+50 TO 52+50 RT
52+50 TO 53+65 LT
54+45 TO 55+00 RT
54+45 TO 55+00 RT

COMMON EXCAVATION
50+50 TO 53+78 LT & RT (ISLAND)
54+36 TO 55+50 LT & RT (ISLAND)

REHAB. DROP INLETS
CATCH BASINS, OR MANHOLES,
CLASS I, CLASS II
51+18 RT (DI)

STEEL BEAM GUARDRAIL, GALVANIZED
54+35 TO 55+00 RT
ANCHOR FOR STEEL BEAM RAIL
54+35 RT
DELINEATOR WITH STEEL POST
54+35 RT
REMOVING SIGNS
AS SHOWN - 6



LEGEND

- R = REMOVE EXISTING
- S = SALVAGED
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- EXISTING GUARDRAIL
- PROPOSED GUARDRAIL
- YL = YELLOW LINE
- WL = WHITE LINE
- DELINEATOR
- RUMBLE STRIP
- PAVEMENT CORE

NOT TO SCALE

ROADWAY LAYOUT 8 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_49

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 49 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
55+00 TO 60+00 SOLID LT
55+00 TO 60+00 SOLID RT
55+00 TO 56+40 SOLID LT (LANE LINE)
56+40 TO 58+20 DOTTED LT (LANE LINE)
57+60 TO 59+40 DOTTED RT (LANE LINE)
59+40 TO 60+00 SOLID RT (LANE LINE)

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
55+00 TO 60+00 DOUBLE SOLID LT & RT (ISLAND)
55+00 TO 60+00 DOUBLE SOLID RT (ISLAND)

DURABLE 8 INCH YELLOW LINE
55+00 TO 60+00 SOLID LT&RT (DIAGONALS)

DURABLE LETTER OR SYMBOL
55+10 LT - "ONLY"
55+73 LT - LEFT TURN ARROW
56+36 LT - "ONLY"
59+44 RT - "ONLY"

TEMPORARY LETTER OR SYMBOL, PAINT
55+73 LT - LEFT TURN ARROW

MILLED RUMBLE STRIPS
55+00 TO 57+20 RT
55+00 TO 59+30 RT
57+20 TO 60+00 LT
59+30 TO 60+00 LT

COMMON EXCAVATION
55+00 TO 60+00 LT & RT

REHAB. DROP INLETS
CATCH BASINS, OR MANHOLES,
CLASS I, CLASS II
56+42 RT (DI)
58+19 LT (DI)

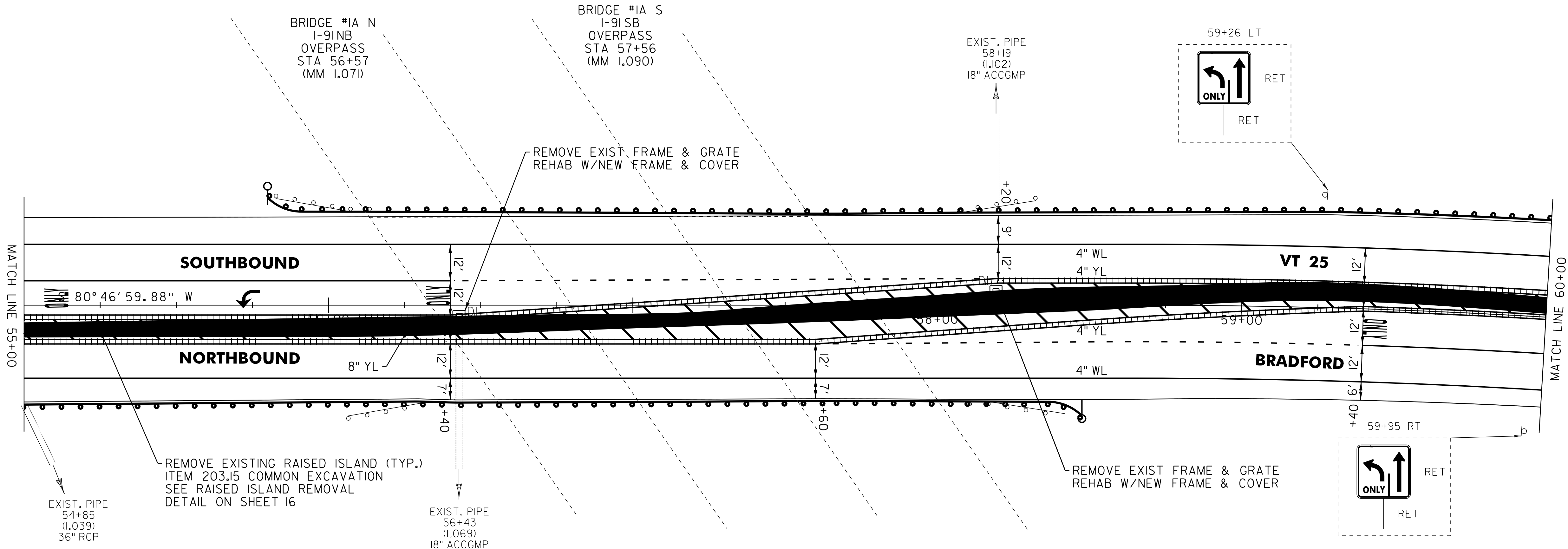
STEEL BEAM GUARDRAIL, GALVANIZED
55+00 TO 58+47.5 RT
55+80 TO 60+00 LT

ANCHOR FOR STEEL BEAM RAIL
55+80 LT
58+47.5 RT

REMOVAL OF EXISTING CURB
55+00 TO 60+00 RT
55+00 TO 60+00 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
55+83 TO 58+33 LT
56+06 TO 58+42 RT

DELINEATOR WITH STEEL POST
55+80 LT
58+47.5 RT



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||| = RUMBLE STRIP

ROADWAY LAYOUT 9 VT 25

PROJECT NAME:	BRADFORD	FILE NAME:	pl0b236.dgn	PLOT DATE:	03-SEP-2014 12:50
PROJECT NUMBER:	STP 2917(I)	PROJECT LEADER:	PTS	DRAWN BY:	SNG
		DESIGNED BY:	NLL	CHECKED BY:	PTS
		IPARM FILE NAME:	pl0b236_50	SHEET	50 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
60+00 TO 61+79 SOLID LT
60+00 TO 61+60 SOLID RT (LANE LINE)
60+00 TO 61+89 SOLID RT
62+32 TO 65+50 SOLID LT
62+37 TO 65+50 SOLID RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
60+00 TO 61+40 DOUBLE SOLID LT (ISLAND)
60+00 TO 61+40 DOUBLE SOLID CL (ISLAND)
62+10 TO 65+50 DOUBLE SOLID LT (ISLAND)
62+10 TO 65+50 DOUBLE SOLID RT (ISLAND)

TEMPORARY 6 INCH WHITE LINE, PAINT
DURABLE 6 INCH WHITE LINE
62+02 TO 62+32 SOLID LT (RAMP D)
62+19 TO 62+37 SOLID RT (RAMP C)

TEMPORARY 6 INCH YELLOW LINE, PAINT
DURABLE 6 INCH YELLOW LINE
61+79 TO 61+82 SOLID LT (RAMP D)
61+88 TO 61+98 SOLID RT (RAMP C)

DURABLE 8 INCH YELLOW LINE
60+00 TO 61+40 RT (DIAGONALS)
62+10 TO 65+50 LT&RT (DIAGONALS)

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
61+92 TO 62+31 RT (RAMP C)

DURABLE LETTER OR SYMBOL
60+06 RT - LEFT TURN ARROW
60+69 RT - "ONLY"
61+32 RT - LEFT TURN ARROW
62+10 RT - "STOP" (RAMP C)

TEMPORARY LETTER OR SYMBOL, PAINT
60+06 RT - LEFT TURN ARROW
61+32 RT - LEFT TURN ARROW
62+10 RT - "STOP" (RAMP C)

MILLED RUMBLE STRIPS
60+00 TO 61+35 LT
60+00 TO 61+35 LT
62+30 TO 64+75 LT
62+30 TO 64+75 RT

REMOVAL OF EXISTING CURB

60+00 TO 61+41 RT
60+00 TO 61+41 RT
62+07 TO 64+27 LT
62+07 TO 64+27 RT

COMMON EXCAVATION

60+00 TO 61+41 LT & RT
62+07 TO 64+27 LT & RT

REHAB. DROP INLETS
CATCH BASINS, OR MANHOLES,
CLASS I, CLASS II

62+08 LT (DI)

STEEL BEAM GUARDRAIL, GALVANIZED

60+00 TO 61+17.5 LT

ANCHOR FOR STEEL BEAM RAIL

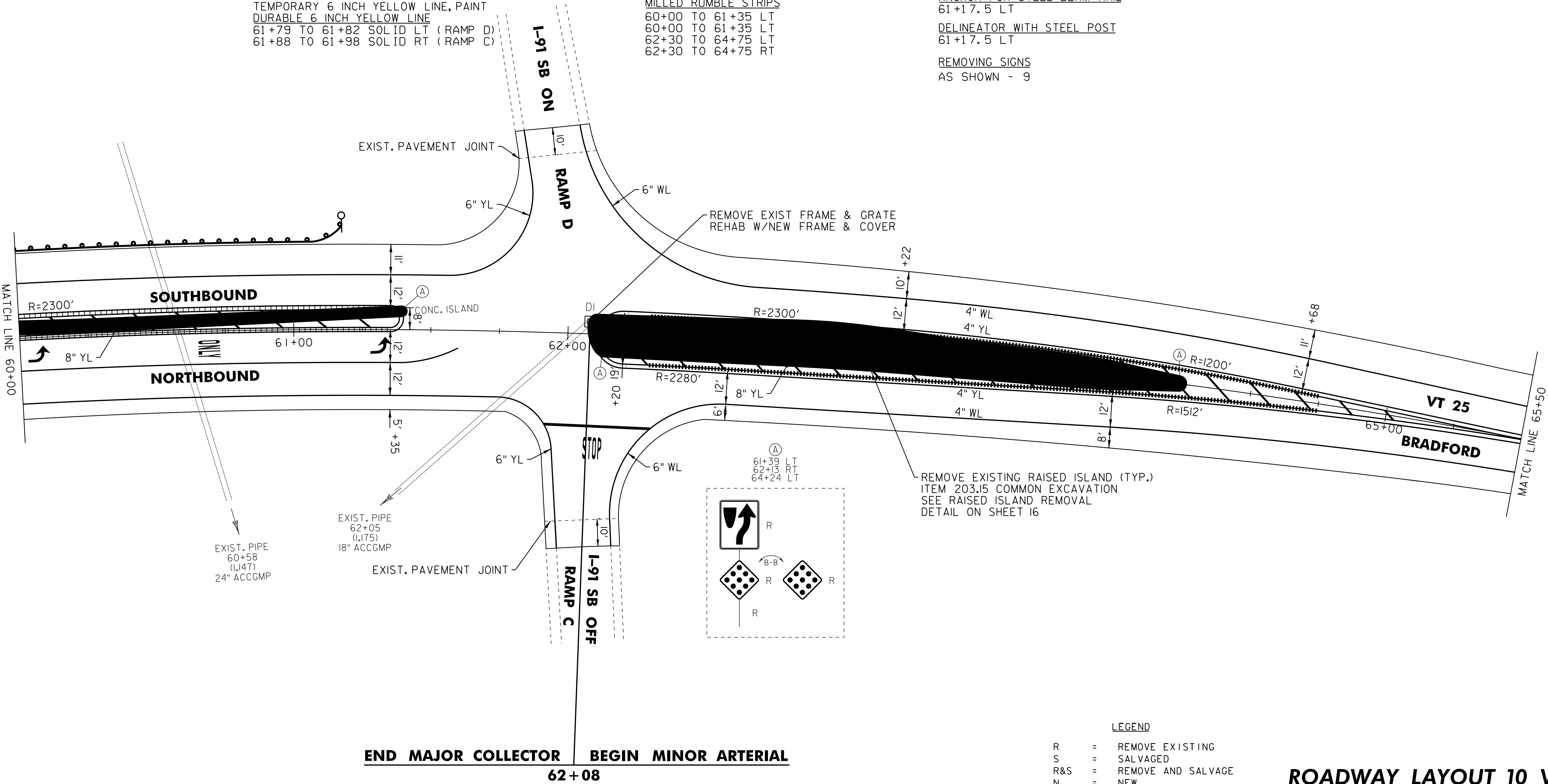
61+17.5 LT

DELINEATOR WITH STEEL POST

61+17.5 LT

REMOVING SIGNS

AS SHOWN - 9



NOT TO SCALE

LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
	= DELINEATOR
	= RUMBLE STRIP

ROADWAY LAYOUT 10 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_51

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 51 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
65+50 TO 76+50 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
65+50 TO 65+62 DOUBLE SOLID LT & RT
65+62 TO 67+23 SOLID LT & RT
67+23 TO 72+50 SOLID LT, DASHED RT
72+50 TO 76+40 DASHED CL
76+40 TO 76+50 DASHED LT, SOLID RT

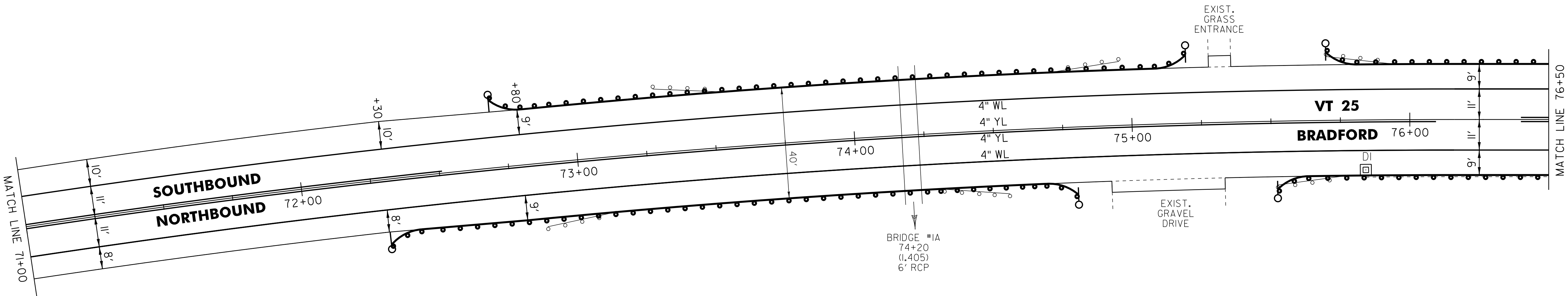
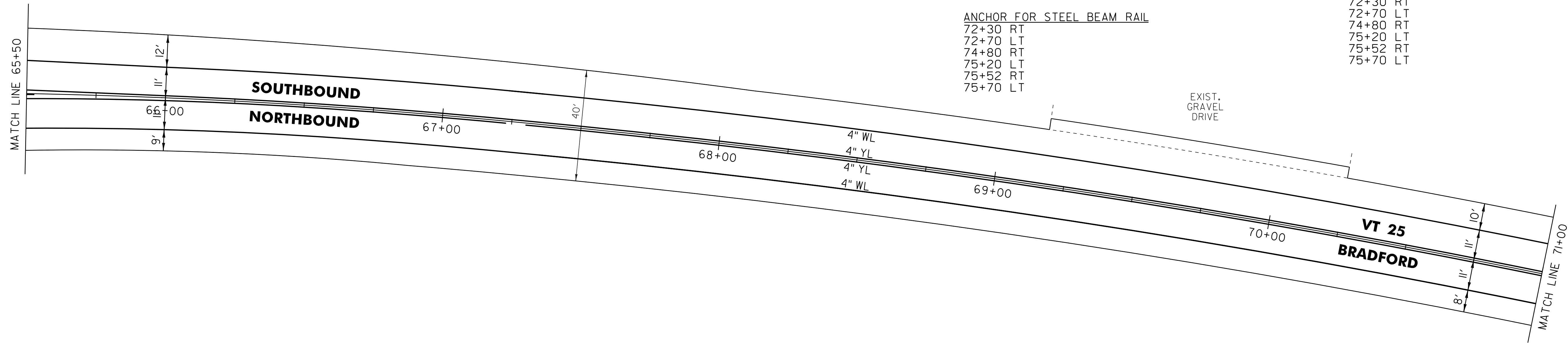
SPECIAL PROVISION
(DECOMMISSION CURB DROP INLET)
75+84 RT (DI)

STEEL BEAM GUARDRAIL, GALVANIZED
72+30 TO 74+80 RT
72+70 TO 75+20 LT
75+70 TO 76+50 LT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
75+52 TO 76+50 RT

ANCHOR FOR STEEL BEAM RAIL
72+30 RT
72+70 LT
74+80 RT
75+20 LT
75+52 RT
75+70 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
72+87 TO 74+55 RT
73+29 TO 74+96 LT
75+52 TO 76+50 RT
75+70 TO 76+50 LT
DELINEATOR WITH STEEL POST
72+30 RT
72+70 LT
74+80 RT
75+20 LT
75+52 RT
75+70 LT



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||||| = RUMBLE STRIP

ROADWAY LAYOUT 11 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10b236_52

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 52 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
76+50 TO 87+50 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
76+50 TO 84+35 DASHED LT, SOLID RT
84+35 TO 87+50 SOLID LT & RT

SPECIAL PROVISION
(DECOMMISSION CURB DROP INLET)
77+32 LT (DI)
78+37 RT (DI)

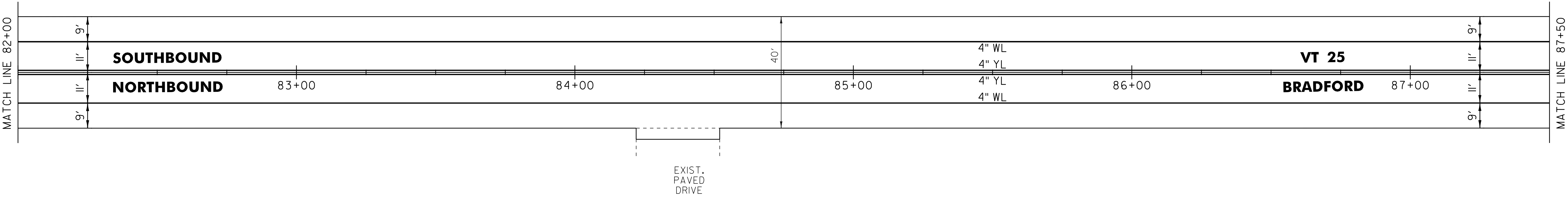
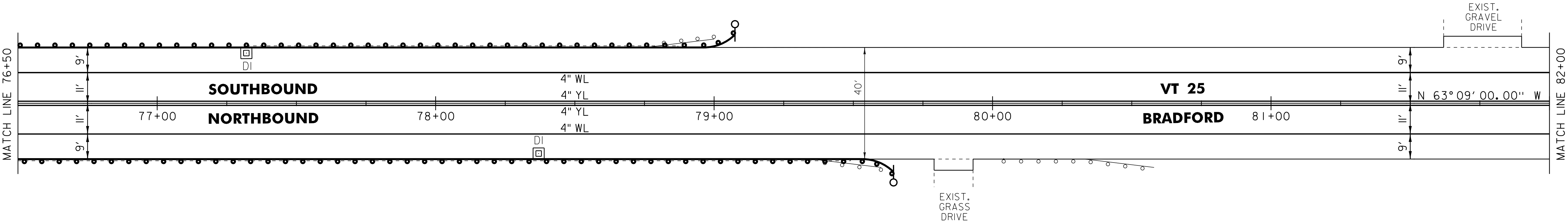
STEEL BEAM GUARDRAIL, GALVANIZED
76+50 TO 77+20 LT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
76+50 TO 79+64.5 RT
77+20 TO 79+07.5 LT

ANCHOR FOR STEEL BEAM RAIL
79+07.5 LT
79+64.5 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
76+50 TO 79+60 RT
76+50 TO 79+00 LT
80+04 TO 80+58 RT

DELINEATOR WITH STEEL POST
79+07.5 LT
79+64.5 RT



VT STATE
POLICE BARRACKS

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||||| = RUMBLE STRIP

ROADWAY LAYOUT 12 VT 25

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:50
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NULL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_53	SHEET 53 OF 105

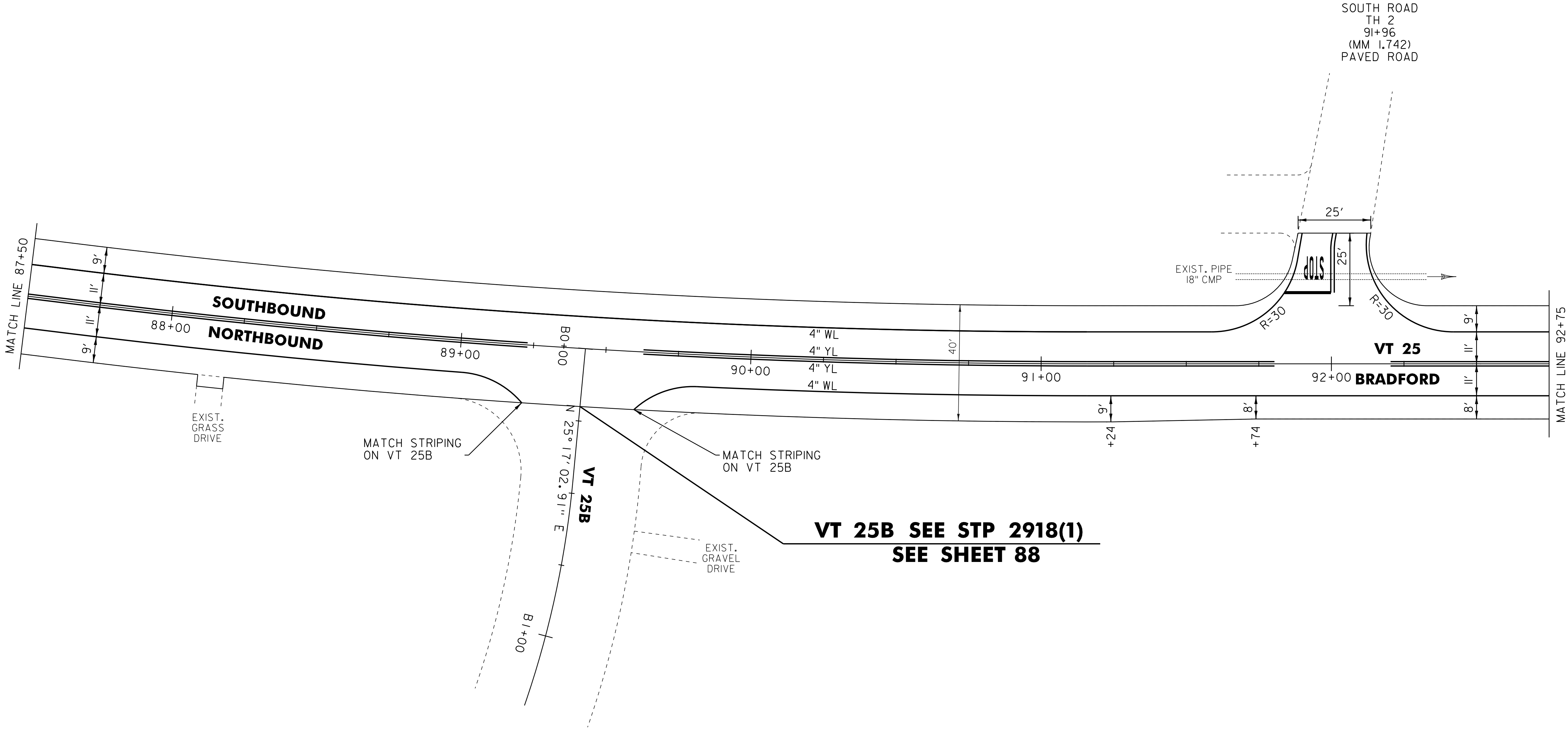
NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
87+50 TO 91+59 SOLID LT
87+50 TO 89+22 SOLID RT
89+61 TO 92+75 SOLID RT
91+59 TO 91+90 SOLID LT (TH 2)
92+12 TO 92+42 SOLID LT (TH 2)
92+42 TO 92+75 SOLID LT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
87+50 TO 89+23 SOLID LT & RT
89+63 TO 91+80 SOLID LT & RT
92+00 TO 92+01 DOUBLE SOLID LT (TH 2)
92+20 TO 92+75 SOLID LT & RT

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
91+84 TO 92+00 LT (TH 2)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
91+94 LT - " STOP" (TH 2)



VT 25B SEE STP 2918(1)
SEE SHEET 88

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||| = RUMBLE STRIP

ROADWAY LAYOUT 13 VT 25

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(1)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:50
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_54	SHEET 54 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
92+75 TO 104+00 SOLID LT & RT

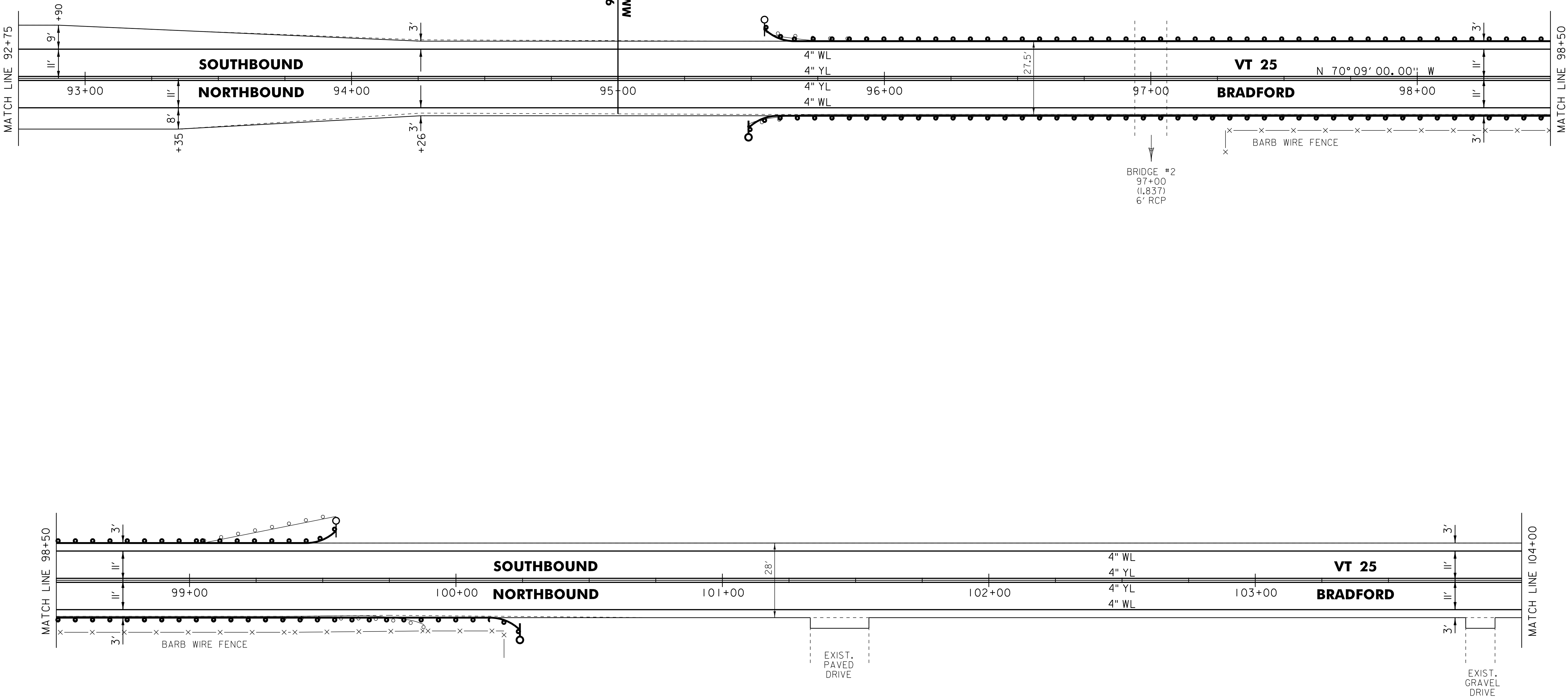
TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
92+75 TO 104+00 SOLID LT & RT

END COLD PLANE
AND OVERLAY

BEGIN LEVEL
AND OVERLAY

STEEL BEAM GUARDRAIL, GALVANIZED
95+55 TO 99+55 LT
STEEL BEAM GUARDRAIL,
GALVANIZED W/8 FEET POSTS
95+49 TO 100+24 RT
ANCHOR FOR STEEL BEAM RAIL
95+49 RT
95+55 LT
99+55 LT
100+24 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
95+49 TO 99+88 RT
95+55 TO 99+55 LT
DELINEATOR WITH STEEL POST
95+49 RT
95+55 LT
99+55 LT
100+24 RT



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||| = RUMBLE STRIP

ROADWAY LAYOUT 14 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10b236_55

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 55 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
104+00 TO 115+00 SOLID LT & RT

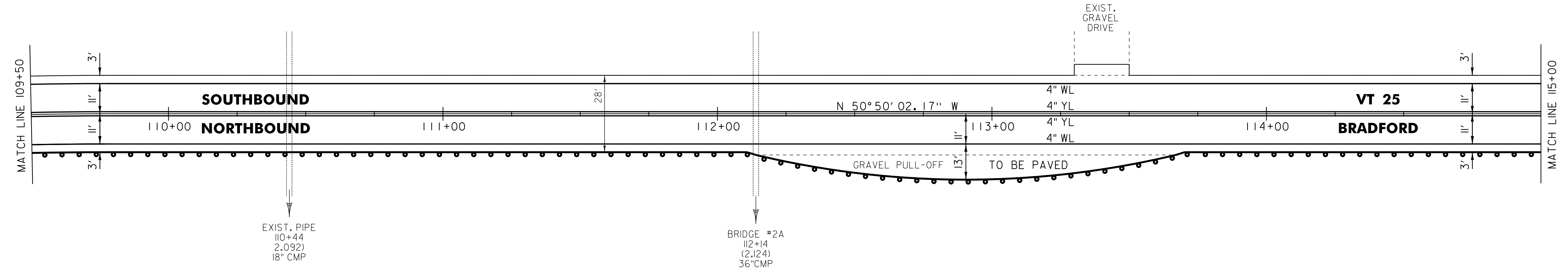
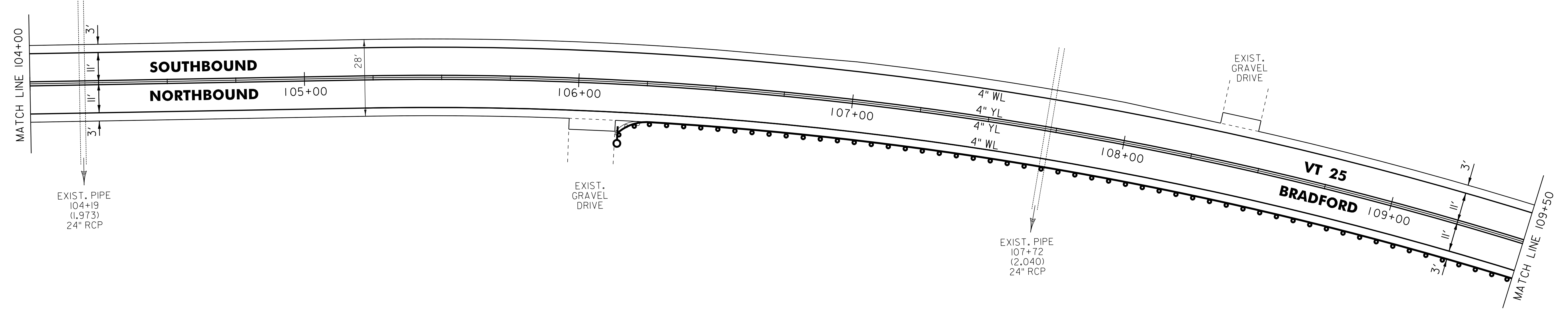
TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
104+00 TO 115+00 SOLID LT & RT

STEEL BEAM GUARDRAIL,
GALVANIZED W/8 FEET POSTS
106+15 TO 115+00 RT

ANCHOR FOR STEEL BEAM RAIL
106+15 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
106+15 TO 115+00 RT

DELINEATOR WITH STEEL POST
106+15 RT



LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
	= DELINEATOR
	= RUMBLE STRIP

ROADWAY LAYOUT 15 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10b236_56

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 56 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
115+00 TO 125+50 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
115+00 TO 125+50 SOLID LT & RT

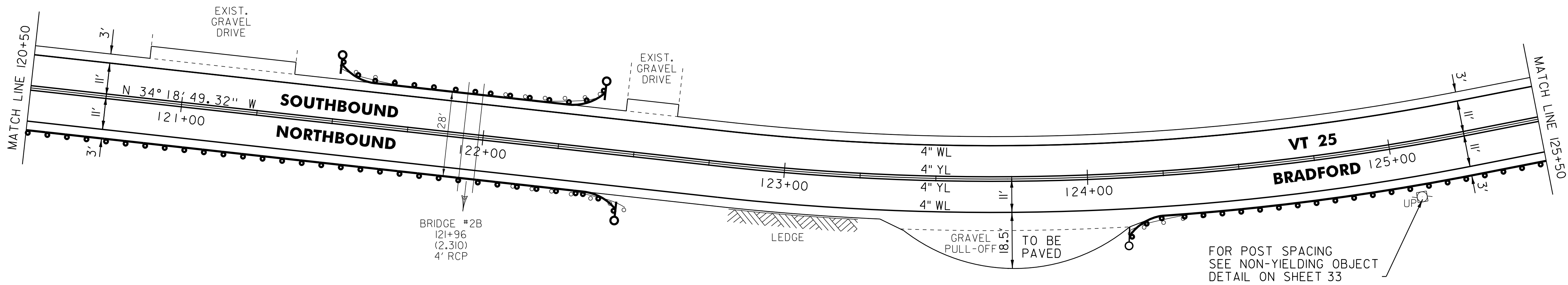
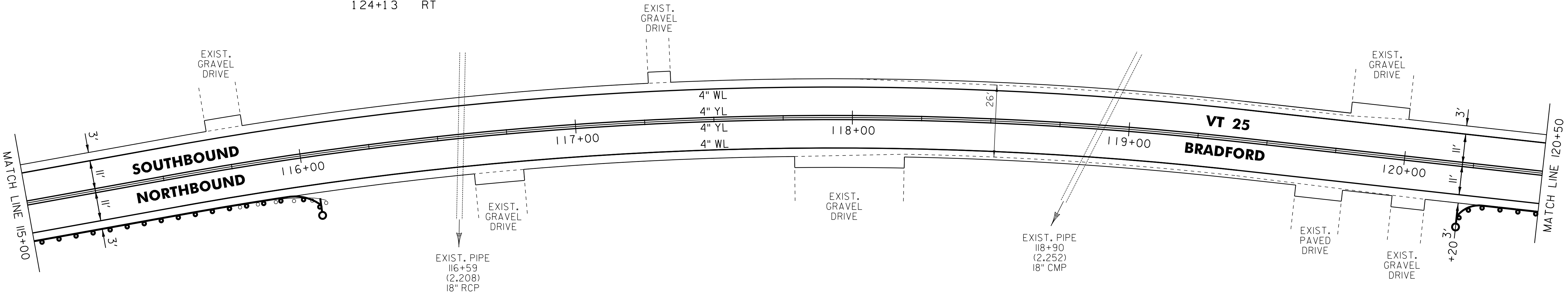
STEEL BEAM GUARDRAIL, GALVANIZED
121+46 TO 122+46 RT
121+51 TO 122+38.5 LT
124+13 TO 125+50 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
115+00 TO 116+05 RT
120+21 TO 121+46 RT

ANCHOR FOR STEEL BEAM RAIL
116+05 RT
120+21 RT
121+51 LT
122+38.5 LT
122+46 RT
124+13 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
115+00 TO 116+07 RT
120+21 TO 122+49 RT
121+51 TO 122+37 LT
124+13 TO 125+50 RT

DELINEATOR WITH STEEL POST
116+05 RT
120+21 RT
121+51 LT
122+38.5 LT
122+46 RT
124+13 RT



LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
	= DELINEATOR
	= RUMBLE STRIP

ROADWAY LAYOUT 16 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10b236_57

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 57 OF 105

NOT TO SCALE

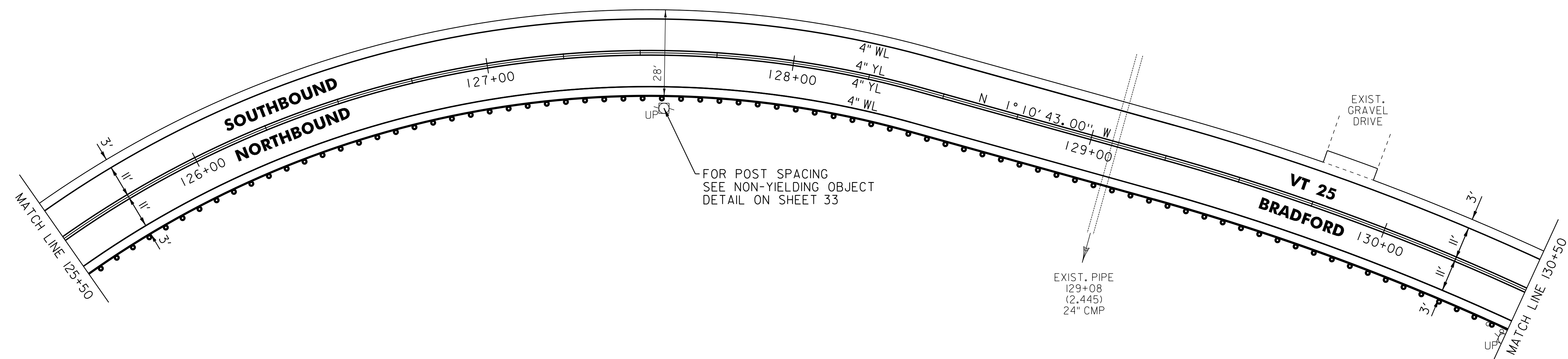
TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
125+50 TO 130+50 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
125+50 TO 130+50 SOLID LT & RT

STEEL BEAM GUARDRAIL, GALVANIZED
125+50 TO 127+38 RT
128+75.5 TO 130+50 RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
127+38 TO 128+75.5 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
125+50 TO 130+50 RT



NOT TO SCALE

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||||| = RUMBLE STRIP

ROADWAY LAYOUT 17 VT 25

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:50
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_58	SHEET 58 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
130+50 TO 136+00 SOLID LT & RT

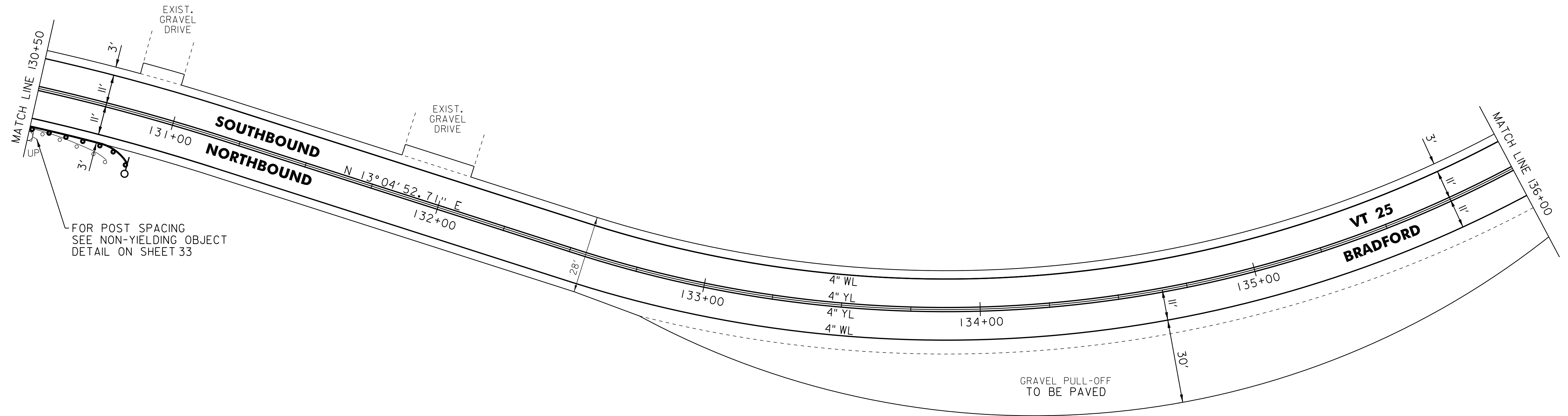
TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
130+50 TO 136+00 SOLID LT & RT

STEEL BEAM GUARDRAIL, GALVANIZED
130+50 TO 130+88 RT

ANCHOR FOR STEEL BEAM RAIL
130+88 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
130+50 TO 130+80 RT

DELINEATOR WITH STEEL POST
130+88 RT



FOR POST SPACING
SEE NON-YIELDING OBJECT
DETAIL ON SHEET 33

GRAVEL PULL-OFF
TO BE PAVED

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||||| = RUMBLE STRIP

ROADWAY LAYOUT 18 VT 25

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:50
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_59	SHEET 59 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
136+00 TO 147+00 SOLID LT & RT

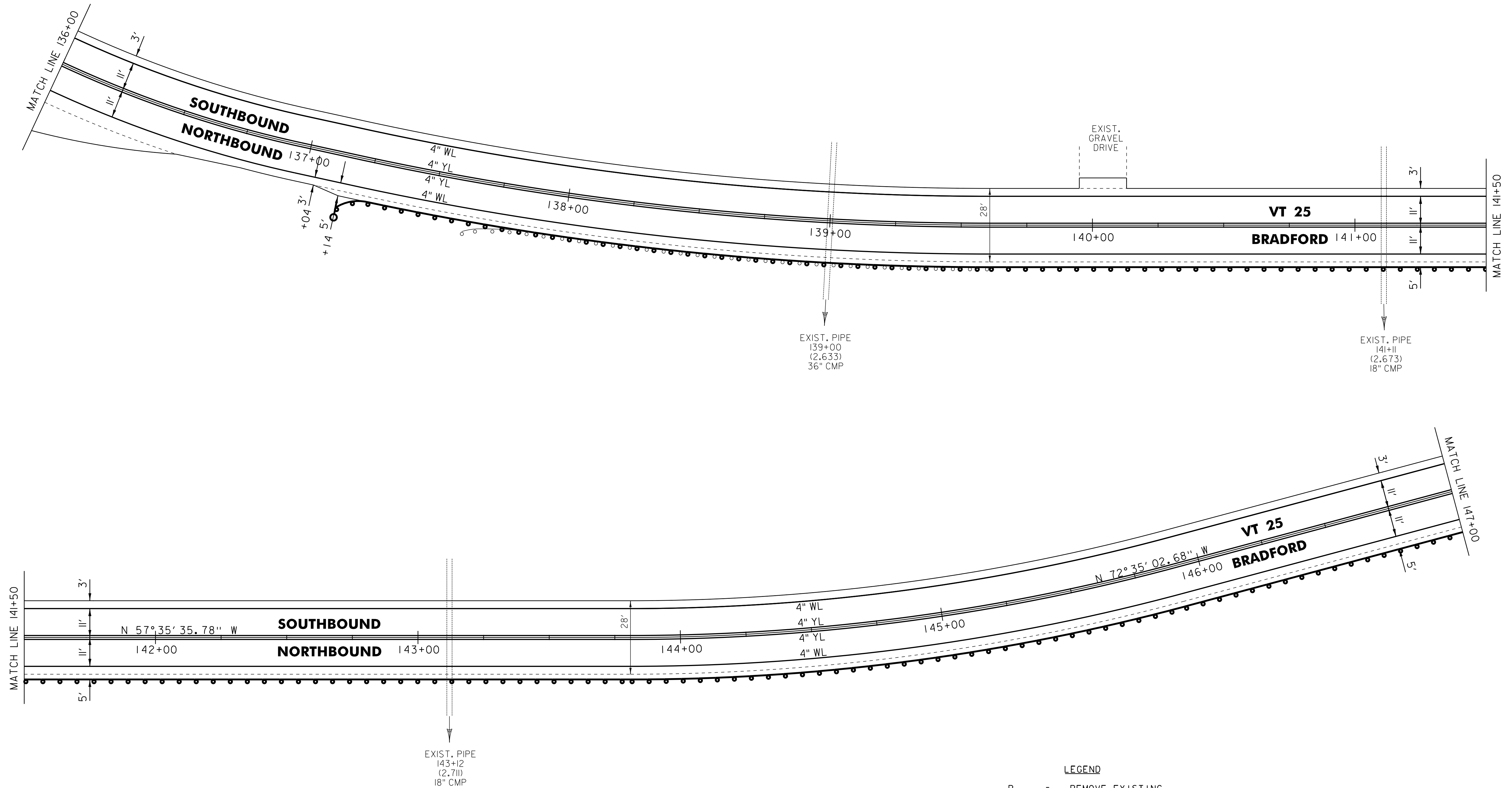
TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
136+00 TO 147+00 SOLID LT & RT

STEEL BEAM GUARDRAIL, GALVANIZED
137+13 TO 147+00 RT

ANCHOR FOR STEEL BEAM RAIL
137+13 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
137+62 TO 147+00 RT

DELINEATOR WITH STEEL POST
137+13 RT



LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
	= DELINEATOR
	= RUMBLE STRIP

ROADWAY LAYOUT 19 VT 25

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:50
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_60	SHEET 60 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
147+00 TO 158+00 SOLID LT & RT

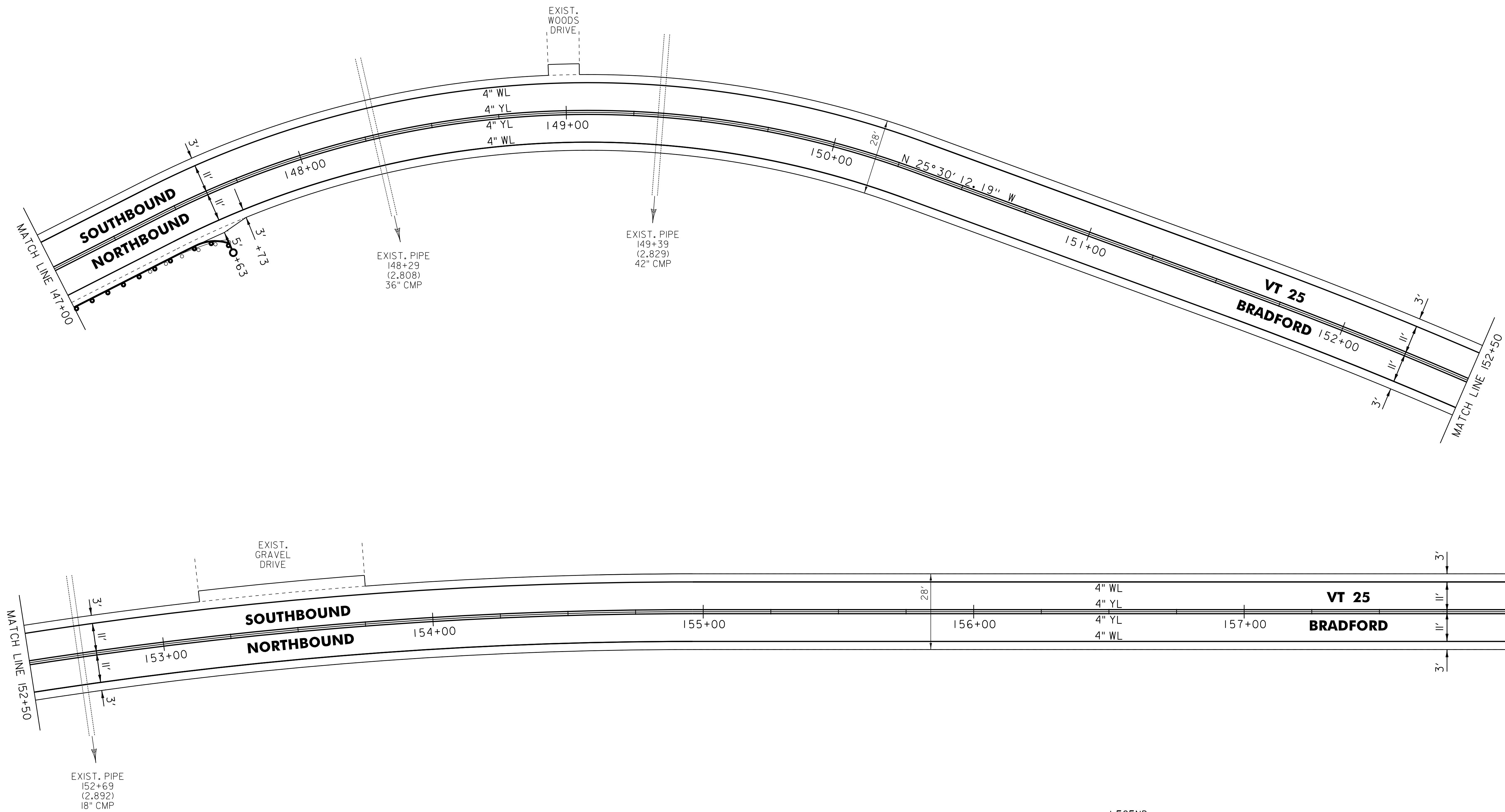
TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
147+00 TO 158+00 SOLID LT & RT

STEEL BEAM GUARDRAIL, GALVANIZED
147+00 TO 147+63 RT

ANCHOR FOR STEEL BEAM RAIL
147+63 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
147+00 TO 147+63 RT

DELINEATOR WITH STEEL POST
147+63 RT



NOT TO SCALE

LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
	= DELINEATOR
	= RUMBLE STRIP

ROADWAY LAYOUT 20 VT 25

PROJECT NAME:	BRADFORD
PROJECT NUMBER:	STP 2917(I)
FILE NAME:	pl0b236.dgn
PROJECT LEADER:	PTS
DESIGNED BY:	NLL
IPARM FILE NAME:	pl0b236_61

PLOT DATE:	03-SEP-2014 12:50
DRAWN BY:	SNG
CHECKED BY:	PTS
SHEET	61 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
158+00 TO 169+00 SOLID LT & RT

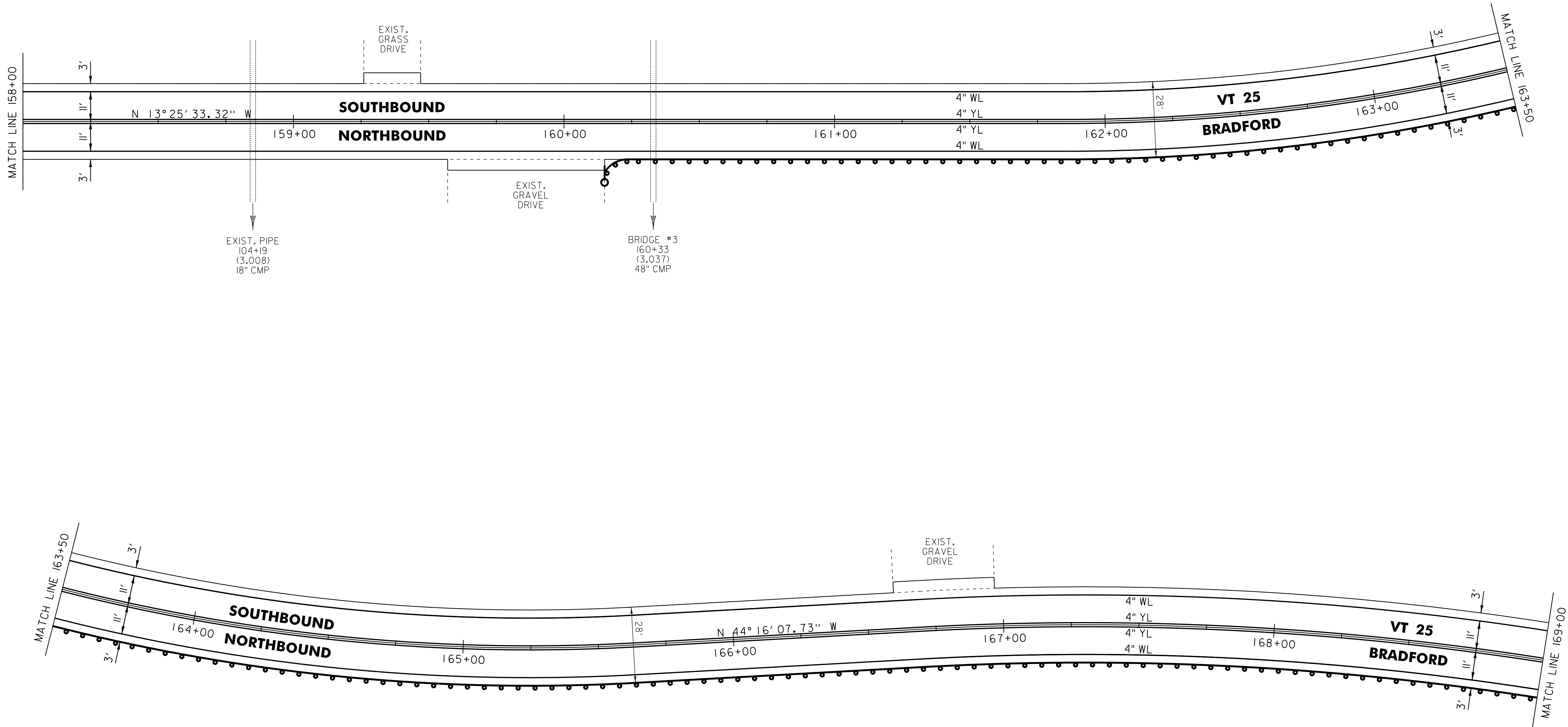
TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
158+00 TO 169+00 SOLID LT & RT

STEEL BEAM GUARDRAIL, GALVANIZED
160+15 TO 169+00 RT

ANCHOR FOR STEEL BEAM RAIL
160+15 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
160+15 TO 169+00 RT

DELINEATOR WITH STEEL POST
160+15 RT



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||||| = RUMBLE STRIP

ROADWAY LAYOUT 21 VT 25

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:50
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10b236_62	SHEET 62 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
169+00 TO 180+00 SOLID LT & RT

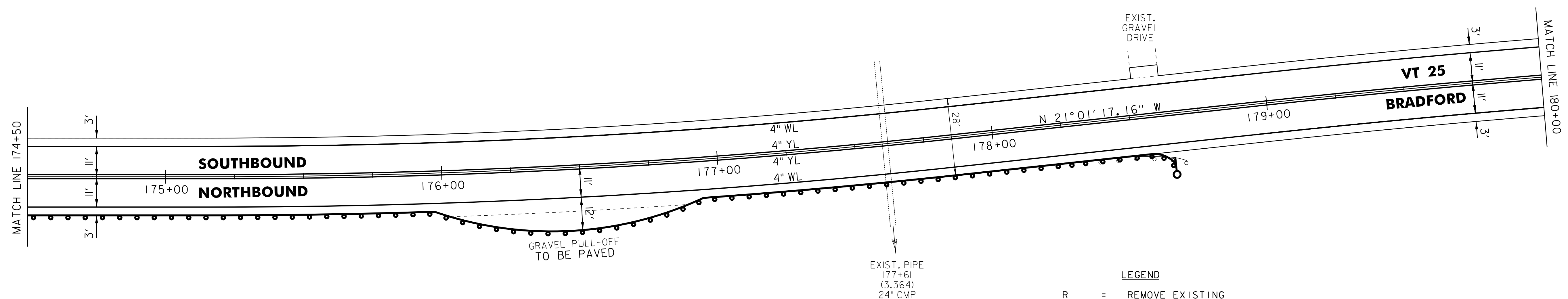
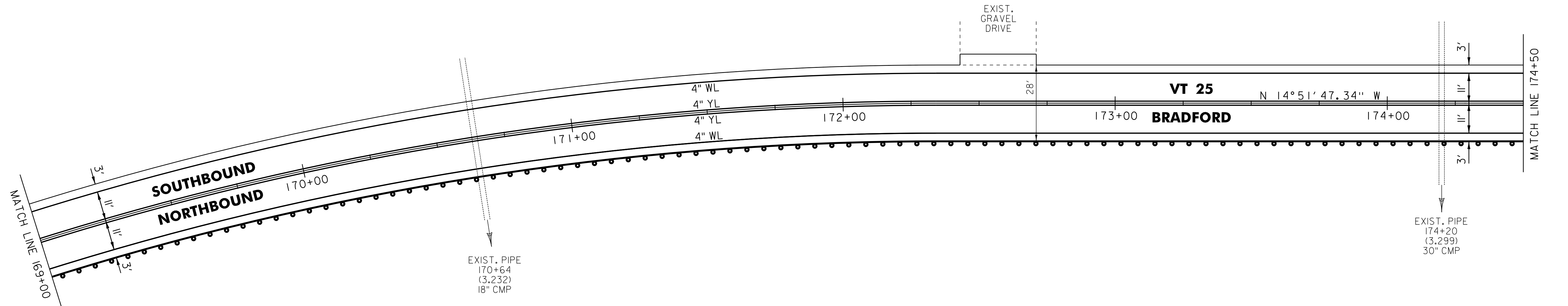
TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
169+00 TO 180+00 SOLID LT & RT

STEEL BEAM GUARDRAIL, GALVANIZED
169+00 TO 178+65 RT

ANCHOR FOR STEEL BEAM RAIL
178+65 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
169+00 TO 178+69 RT

DELINEATOR WITH STEEL POST
178+65 RT



LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
	= DELINEATOR
	= RUMBLE STRIP

ROADWAY LAYOUT 22 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_63

PLOT DATE: 03-SEP-2014 12:50

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 63 OF 105

NOT TO SCALE

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
191+00 TO 202+00 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
191+00 TO 202+00 SOLID LT & RT

REMOVAL OF EXISTING BRIDGE RAILING
191+07 TO 191+32 RT
191+38 TO 191+76 LT

BRIDGE RAILING REPAIR, TYPE III
191+06.8 TO 191+31.8 RT
191+38.3 TO 191+75.8 LT

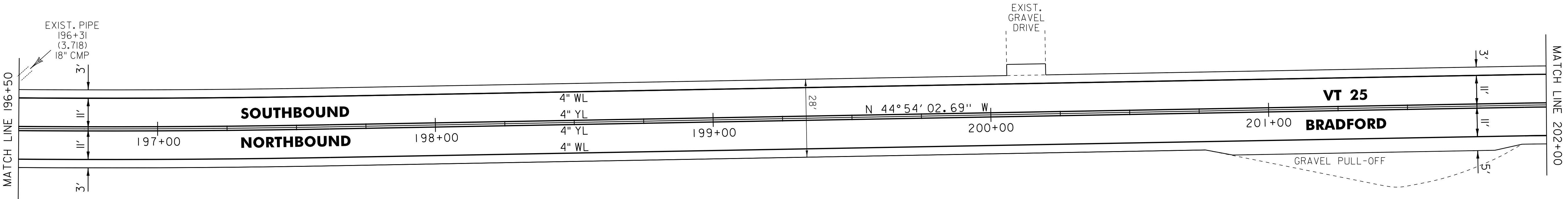
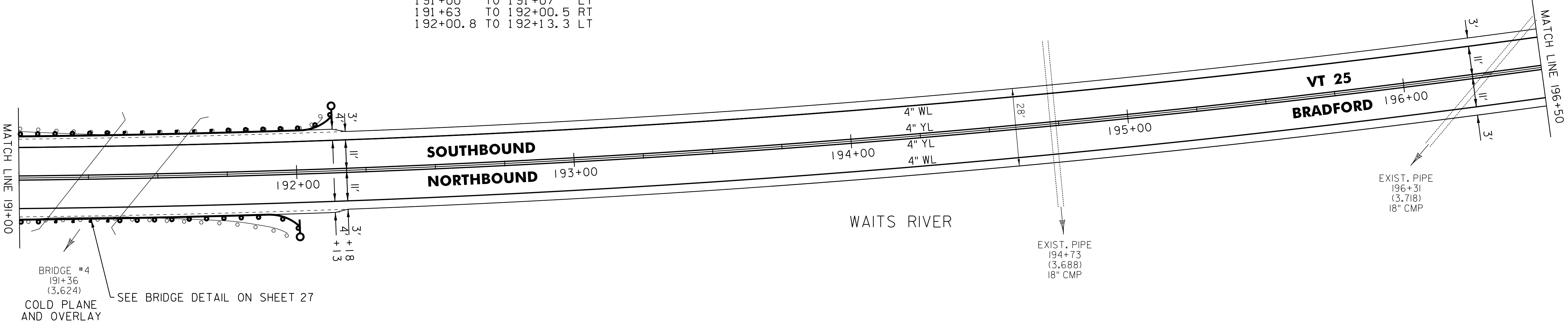
STEEL BEAM GUARDRAIL, GALVANIZED
191+00 TO 191+07 LT
191+63 TO 192+00.5 RT
192+00.8 TO 192+13.3 LT

H.D. STEEL BEAM
GUARDRAIL, GALVANIZED
191+00 TO 191+06.8 RT
191+07 TO 191+38.3 LT
191+31.8 TO 191+63 RT
191+75.8 TO 192+00.8 LT

ANCHOR FOR STEEL BEAM RAIL
192+00.5 RT
192+13.3 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
191+00 TO 191+07 RT
191+00 TO 191+38 LT
191+32 TO 191+96 RT
191+76 TO 192+10 LT

DELINEATOR WITH STEEL POST
192+00.5 RT
192+13.3 LT



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||||| = RUMBLE STRIP

ROADWAY LAYOUT 24 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10b236_65

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 65 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
202+00 TO 203+42 SOLID LT
202+00 TO 213+00 SOLID RT
203+42 TO 203+78 SOLID LT (TH 23)
204+05 TO 204+14 SOLID LT (TH 23)
204+14 TO 213+00 SOLID LT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
202+00 TO 203+65 SOLID LT & RT
203+85 TO 203+91 DOUBLE SOLID LT (TH 23)
204+05 TO 213+00 SOLID LT & RT

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
203+60 TO 203+84 LT (TH 23)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
203+77 LT - "STOP" (TH 23)

STEEL BEAM GUARDRAIL, GALVANIZED
203+34.5 TO 204+72 RT
204+13.5 TO 205+38.5 LT
207+44.5 TO 208+07 RT
208+10 TO 208+85 LT

KENYAN ROAD
TH 23
203+66
(MM 3.857)
PAVED APRON
GRAVEL ROAD

GUARDRAIL APPROACH
SECTION, GALV. TYPE I
204+72 TO 205+22 RT
207+60 TO 208+10 LT

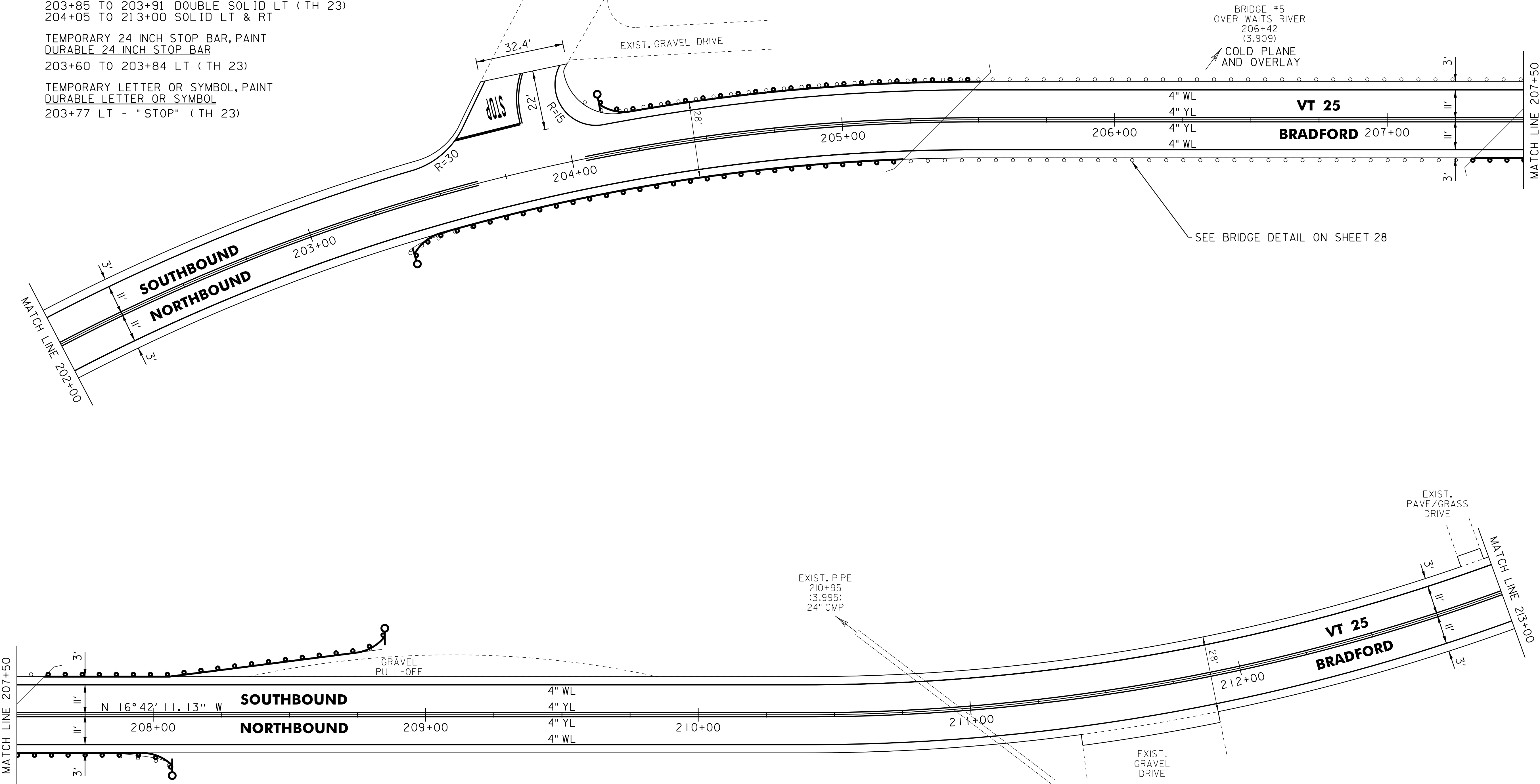
GUARDRAIL APPROACH
SECTION, GALV. TYPE II
205+38.5 TO 205+51 LT
207+32 TO 207+44.5 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
203+33 TO 205+22 RT
204+08 TO 205+51 LT
207+32 TO 208+06 RT
207+60 TO 208+84 LT

ANCHOR FOR STEEL BEAM RAIL
203+34.5 RT
204+13.5 LT
208+07 RT
208+85 LT

DELINEATOR WITH STEEL POST
203+34.5 RT
204+13.5 LT
208+07 RT
208+85 LT

REMOVE AND REPLACE
REFLECTOR UNIT
205+37 TO 207+46 LT & RT (16)



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - EXISTING GUARDRAIL
 - PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - DELINEATOR
 - RUMBLE STRIP

ROADWAY LAYOUT 25 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_66

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

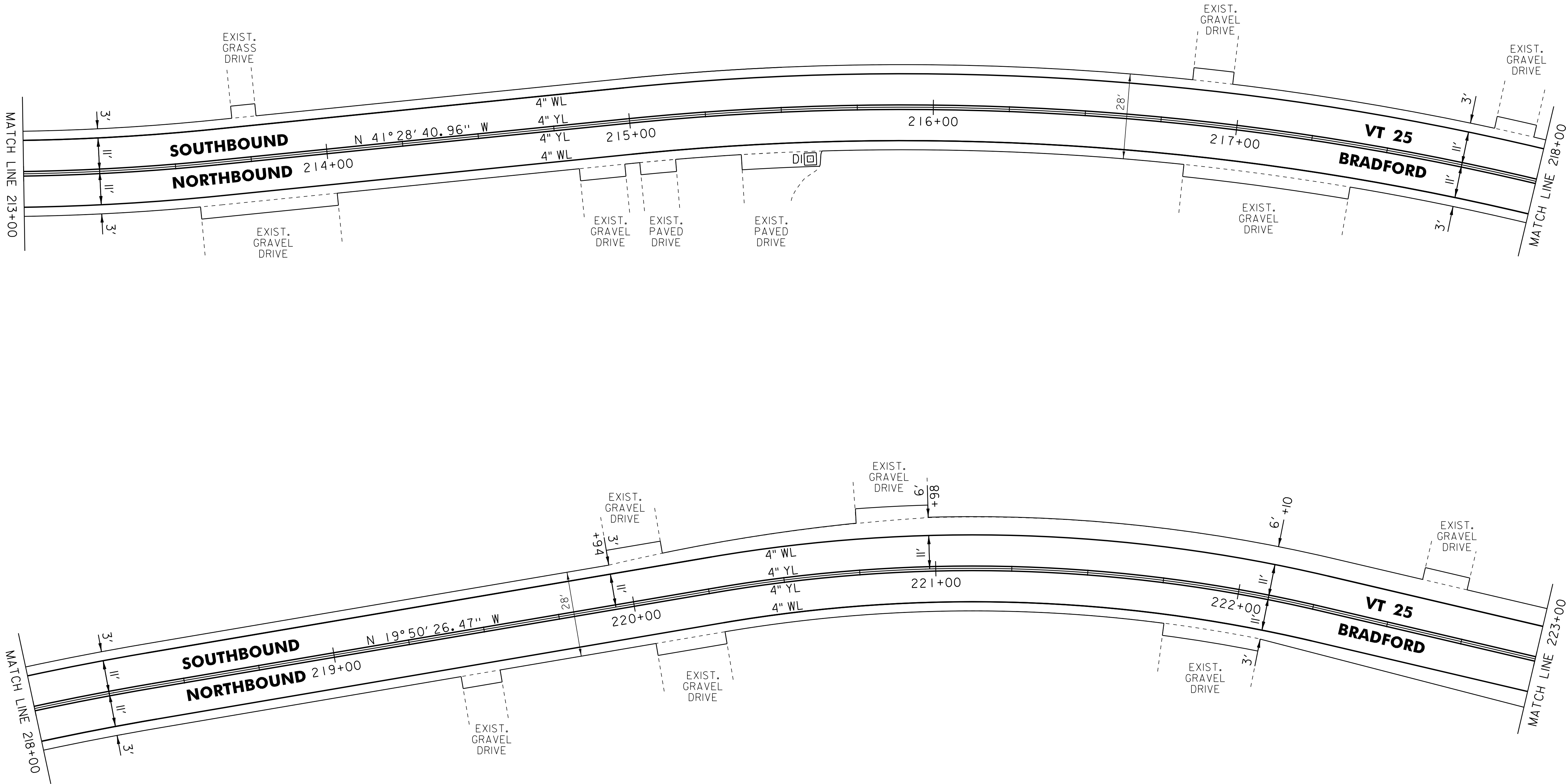
SHEET 66 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
213+00 TO 223+00 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
213+00 TO 223+00 SOLID LT & RT

REHAB. DROP INLETS
CATCH BASINS, OR MANHOLES,
CLASS I, CLASS II
215+59 RT



LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
	= DELINEATOR
	= RUMBLE STRIP

ROADWAY LAYOUT 26 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_67

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 67 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
223+00 TO 233+00 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
223+00 TO 233+00 SOLID LT & RT

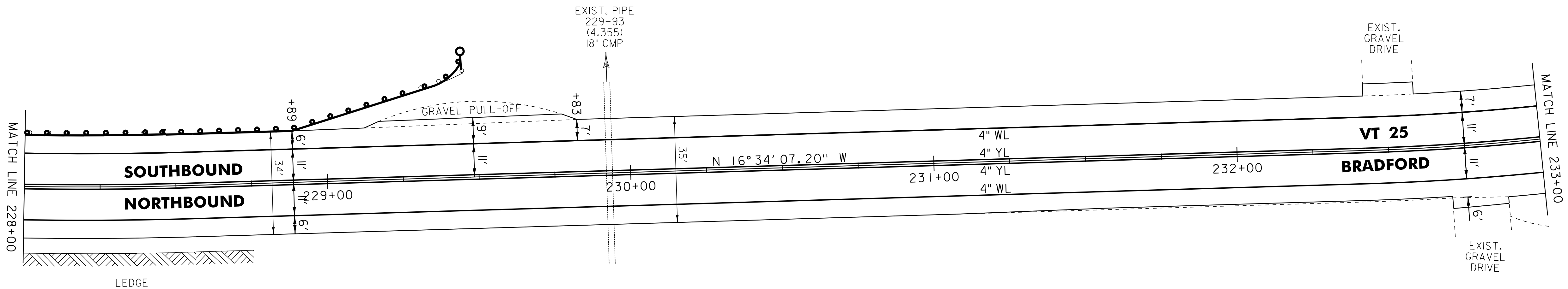
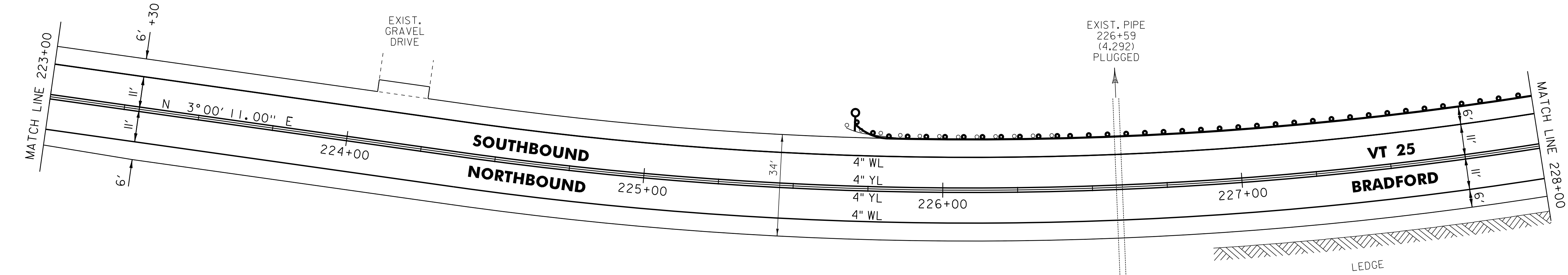
STEEL BEAM GUARDRAIL, GALVANIZED
227+57.5 TO 229+45 LT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
225+70 TO 227+57.5 LT

ANCHOR FOR STEEL BEAM RAIL
225+70 LT
229+45 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
225+67 TO 229+47 LT

DELINEATOR WITH STEEL POST
225+70 LT
229+45 LT



LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
	= DELINEATOR
	= RUMBLE STRIP

ROADWAY LAYOUT 27 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10b236_68

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 68 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
233+00 TO 243+00 SOLID LT
233+00 TO 234+53 SOLID RT
234+53 TO 235+07 SOLID RT (TH 19)
235+32 TO 235+48 SOLID RT (TH 19)
235+48 TO 243+00 SOLID RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
233+00 TO 234+88 SOLID LT & RT
235+08 TO 235+18 DOUBLE SOLID RT (TH 19)
235+28 TO 243+00 SOLID LT & RT

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
235+09 TO 235+33 RT (TH 19)
TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
235+20 RT - "STOP" (TH 19)

REMOVAL OF EXISTING BRIDGE RAILING
234+35 TO 234+60 RT
234+48 TO 234+73 LT

BRIDGE RAILING REPAIR, TYPE I
234+35 TO 234+60 RT
234+48 TO 234+73 LT

STEEL BEAM GUARDRAIL, GALVANIZED
233+35 TO 234+10 RT
233+60.5 TO 234+23 LT
234+81 TO 234+96 RT (25')
234+98 TO 235+48 LT
241+37.5 TO 243+00 LT

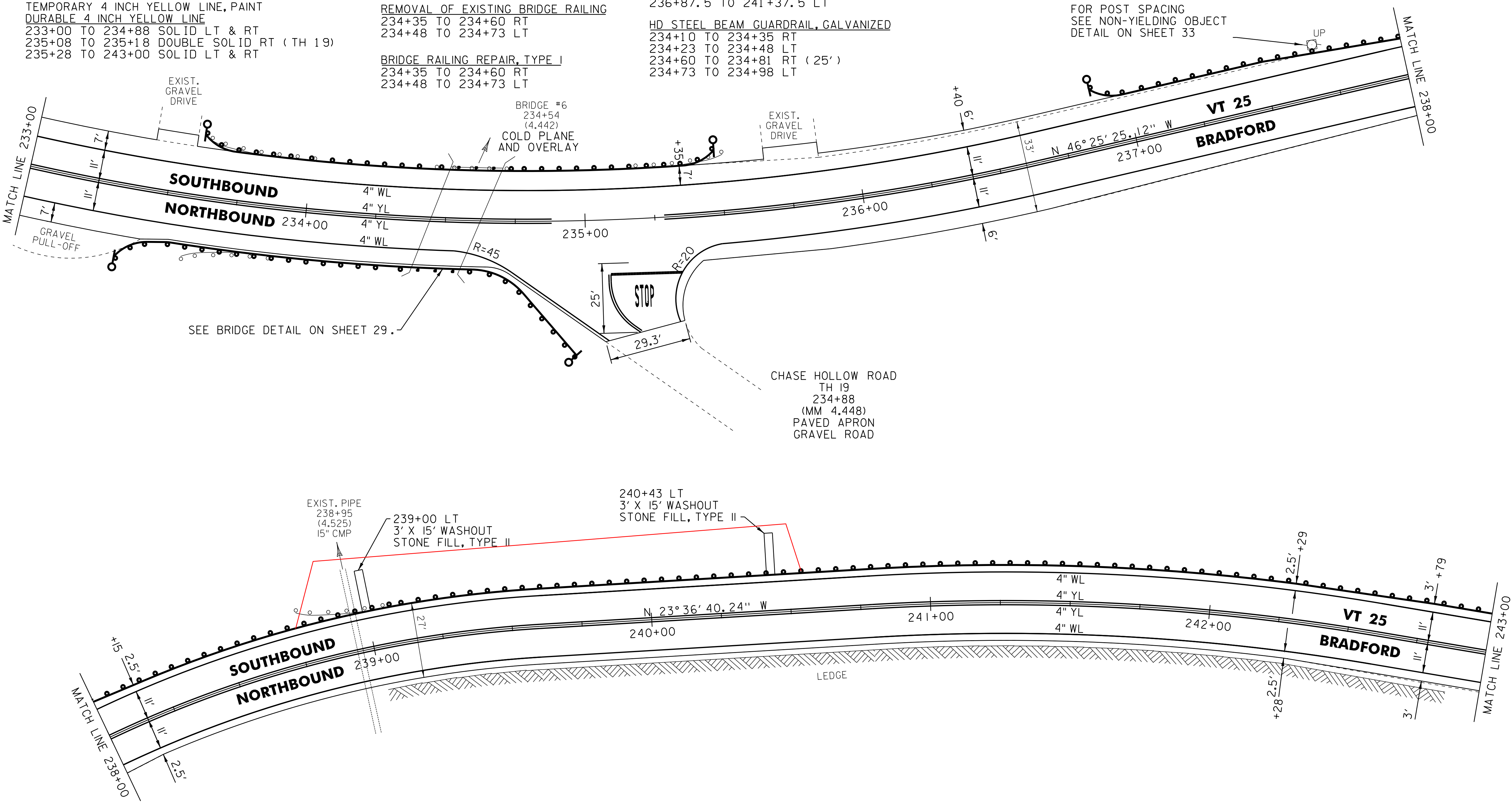
STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
236+87.5 TO 241+37.5 LT

HD STEEL BEAM GUARDRAIL, GALVANIZED
234+10 TO 234+35 RT
234+23 TO 234+48 LT
234+60 TO 234+81 RT (25')
234+73 TO 234+98 LT

ANCHOR FOR STEEL BEAM RAIL
233+35 RT
233+60.5 LT
234+96 RT
235+48 LT
236+87.5 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
233+43 TO 234+35 RT
233+61 TO 234+48 LT
234+60 TO 234+96 RT
234+73 TO 235+51 LT
238+76 TO 243+00 LT

DELINEATOR WITH STEEL POST
233+35 RT
233+60.5 LT
235+48 LT
236+87.5 LT



LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
EXISTING GUARDRAIL	= EXISTING GUARDRAIL
PROPOSED GUARDRAIL	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
DELINEATOR	= DELINEATOR
RUMBLE STRIP	= RUMBLE STRIP

ROADWAY LAYOUT 28 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_69

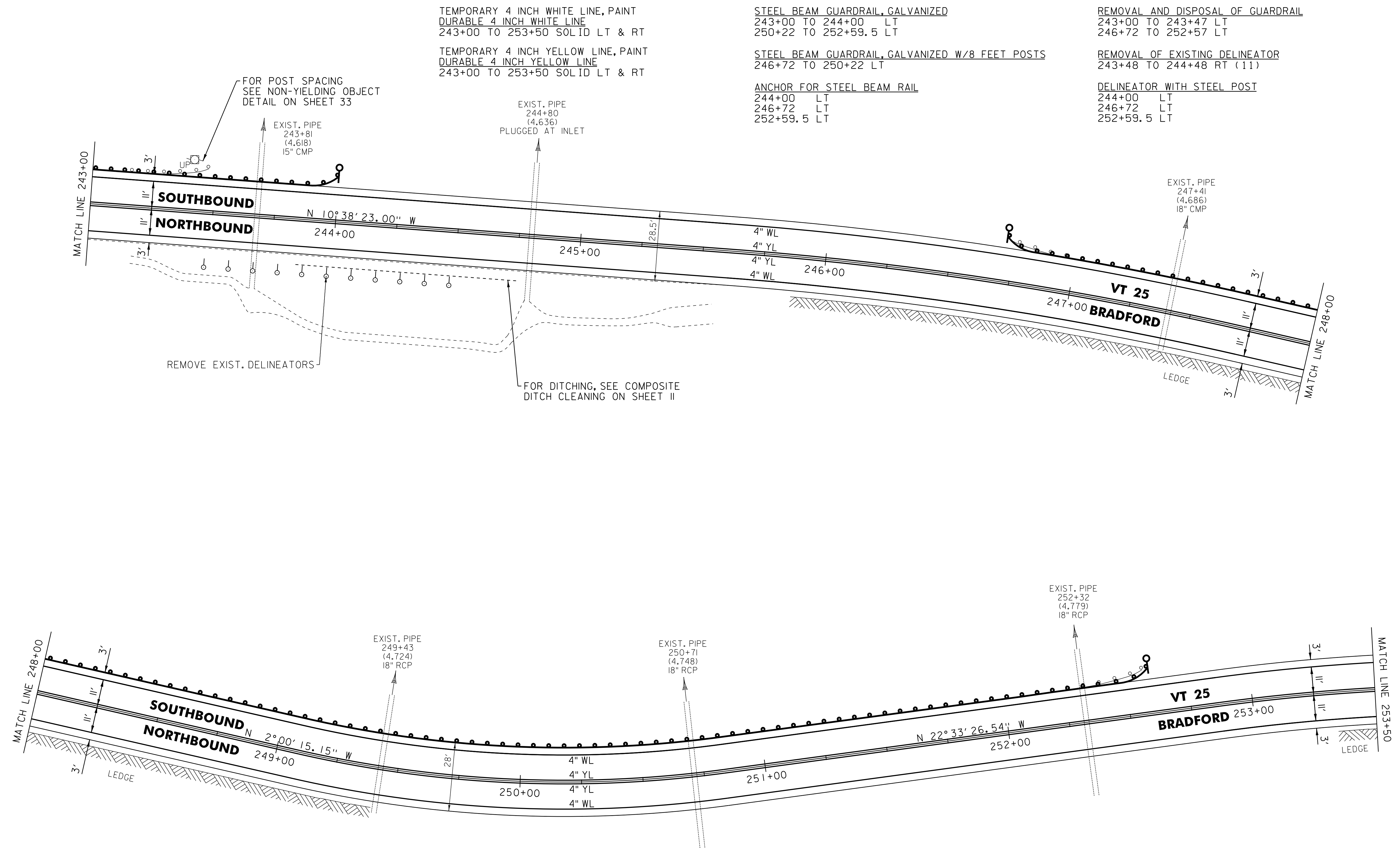
PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 69 OF 105

NOT TO SCALE



NOT TO SCALE

LEGEND

R	=	REMOVE EXISTING
S	=	SALVAGED
R&S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
	=	EXISTING GUARDRAIL
	=	PROPOSED GUARDRAIL
YL	=	YELLOW LINE
WL	=	WHITE LINE
	=	DELINEATOR
	=	RUMBLE STRIP

ROADWAY LAYOUT 29 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_70

PLOT DATE: 03-SEP-2014 12:51

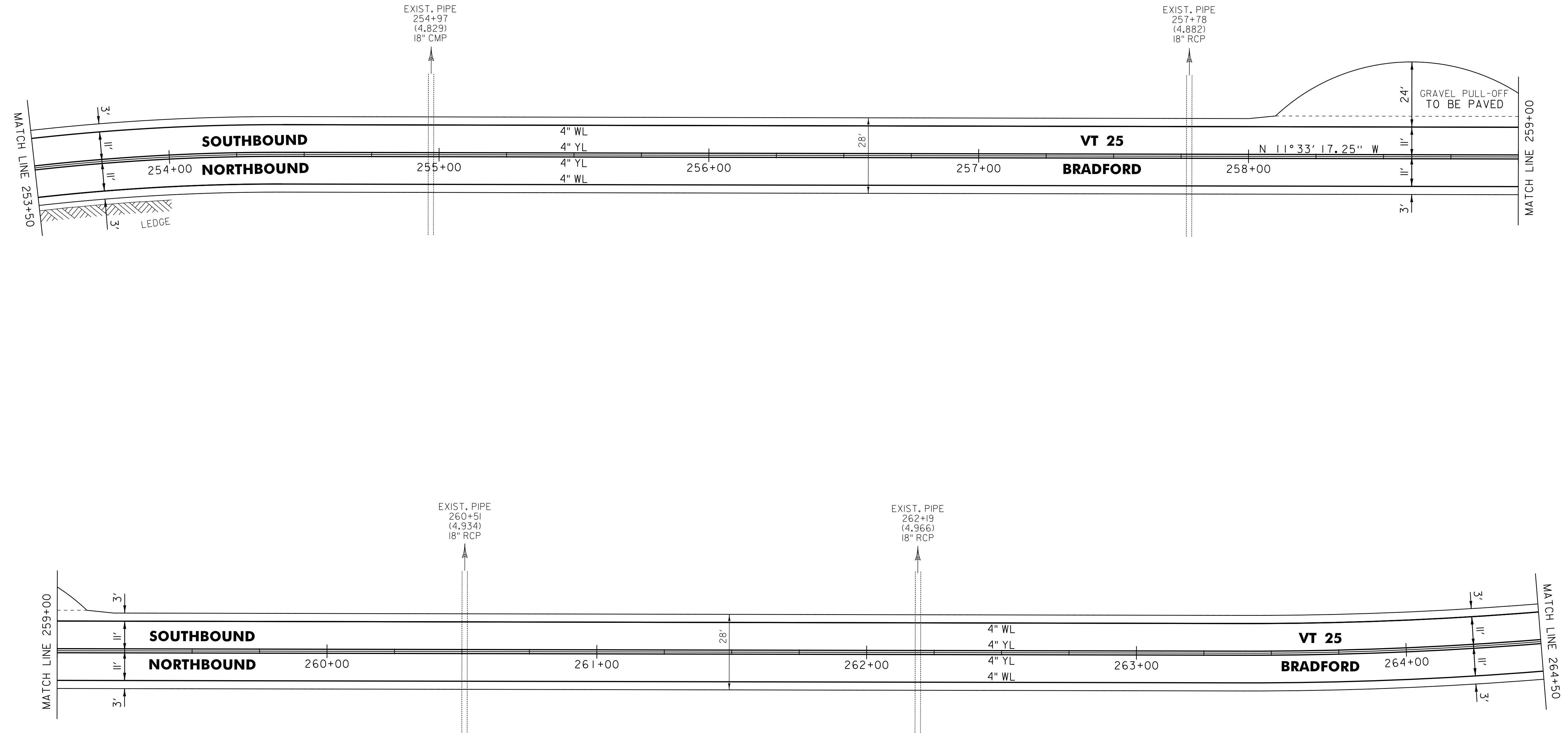
DRAWN BY: SNG

CHECKED BY: PTS

SHEET 70 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
253+50 TO 264+50 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
253+50 TO 264+50 SOLID LT & RT



LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
	= YELLOW LINE
	= WHITE LINE
	= DELINEATOR
	= RUMBLE STRIP

ROADWAY LAYOUT 30 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_71

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 71 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
264+50 TO 275+50 SOLID LT & RT

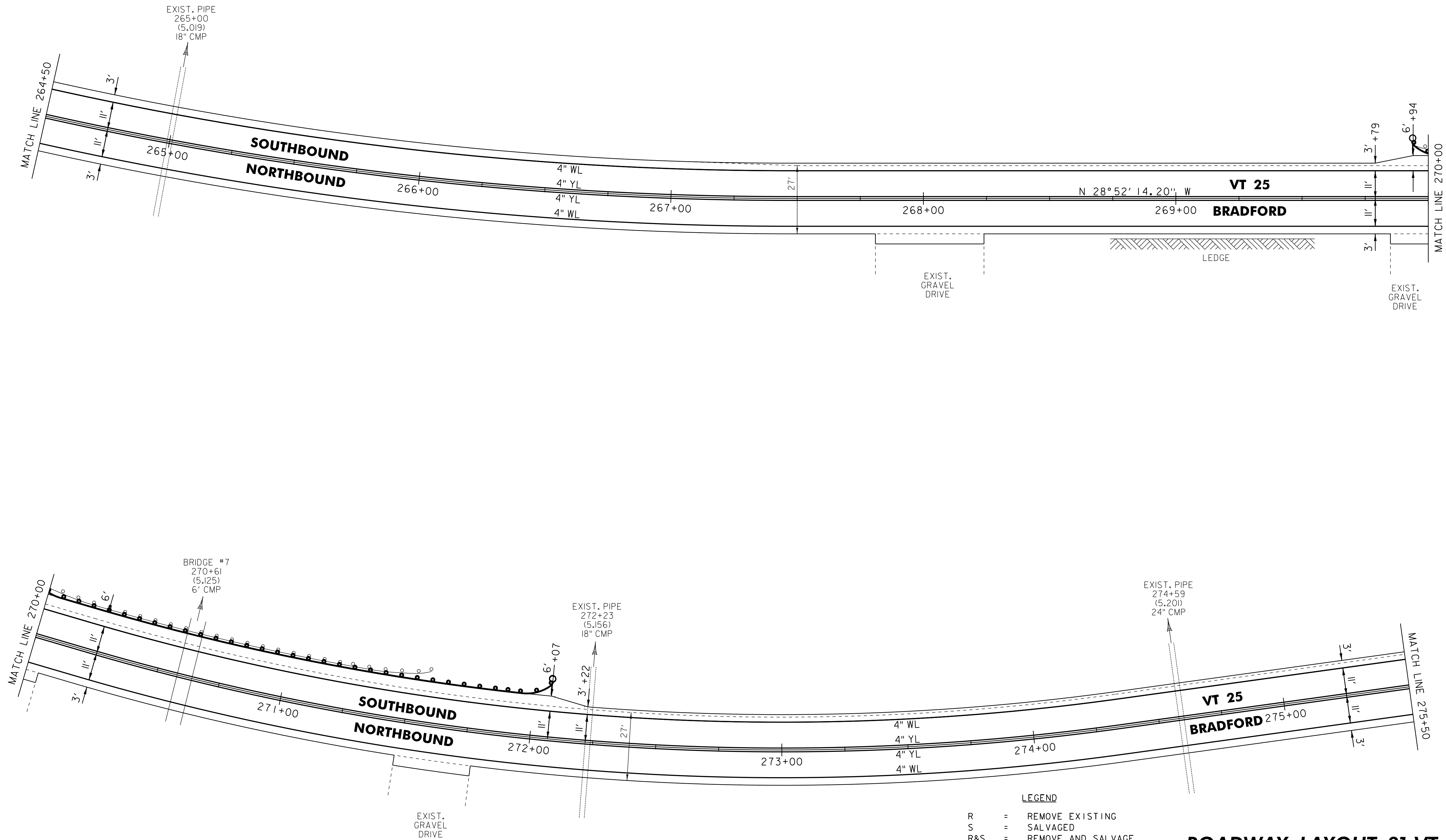
TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
264+50 TO 275+50 SOLID LT & RT

STEEL BEAM GUARDRAIL, GALVANIZED
269+94 TO 272+06.5 LT

ANCHOR FOR STEEL BEAM RAIL
269+94 LT
272+06.5 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
269+94 TO 271+57 LT

DELINEATOR WITH STEEL POST
269+94 LT
272+06.5 LT



NOT TO SCALE

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||||| = RUMBLE STRIP

ROADWAY LAYOUT 31 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_72

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 72 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
275+50 TO 286+50 SOLID LT & RT

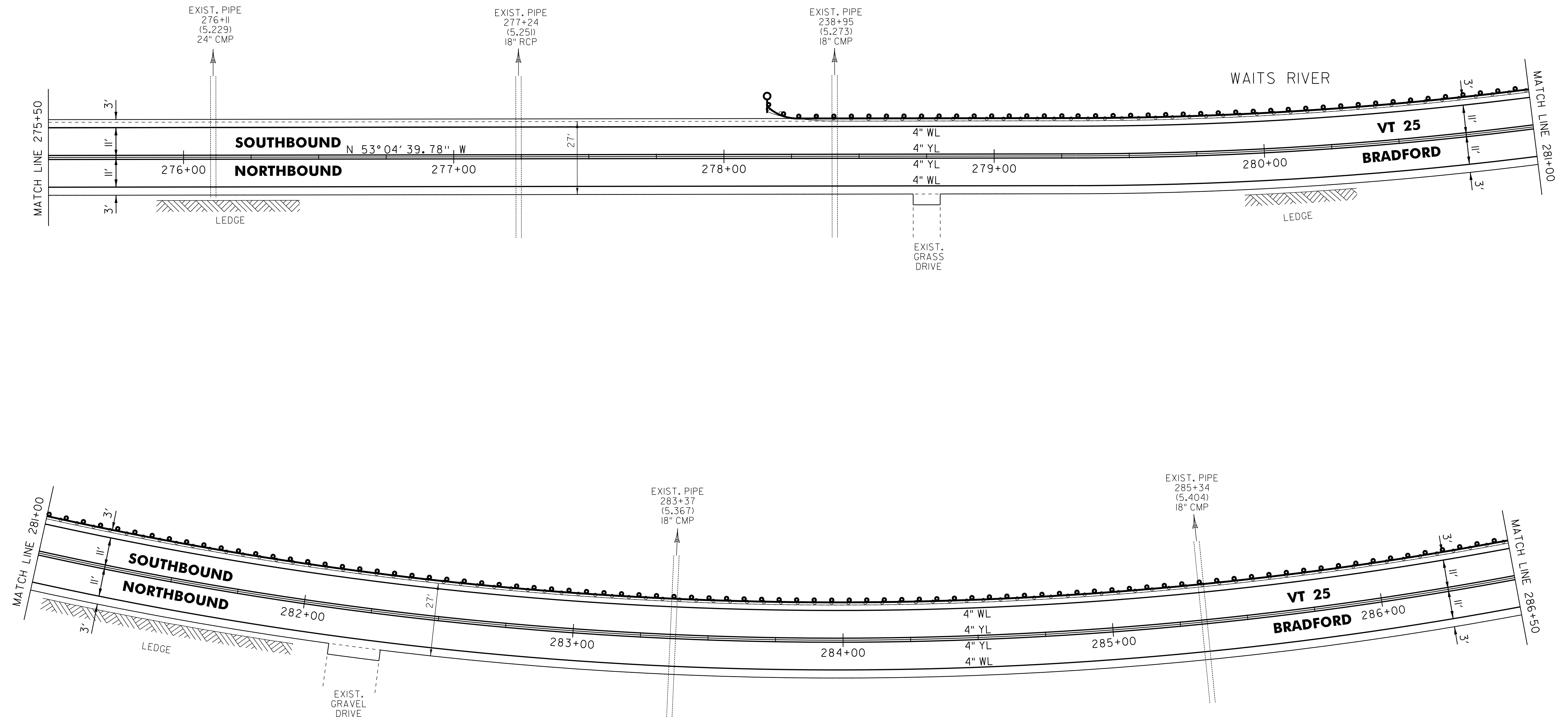
TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
275+50 TO 286+50 SOLID LT & RT

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
278+16 TO 286+50 LT

ANCHOR FOR STEEL BEAM RAIL
278+16 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
278+16 TO 286+50 LT

DELINEATOR WITH STEEL POST
278+16 LT



NOT TO SCALE

LEGEND

R	=	REMOVE EXISTING
S	=	SALVAGED
R&S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
	=	EXISTING GUARDRAIL
	=	PROPOSED GUARDRAIL
	=	YELLOW LINE
	=	WHITE LINE
	=	DELINEATOR
	=	RUMBLE STRIP

ROADWAY LAYOUT 32 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_73

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 73 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
286+50 TO 297+50 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
286+50 TO 297+50 SOLID LT & RT

STEEL BEAM GUARDRAIL, GALVANIZED
293+87 TO 294+24.5 RT

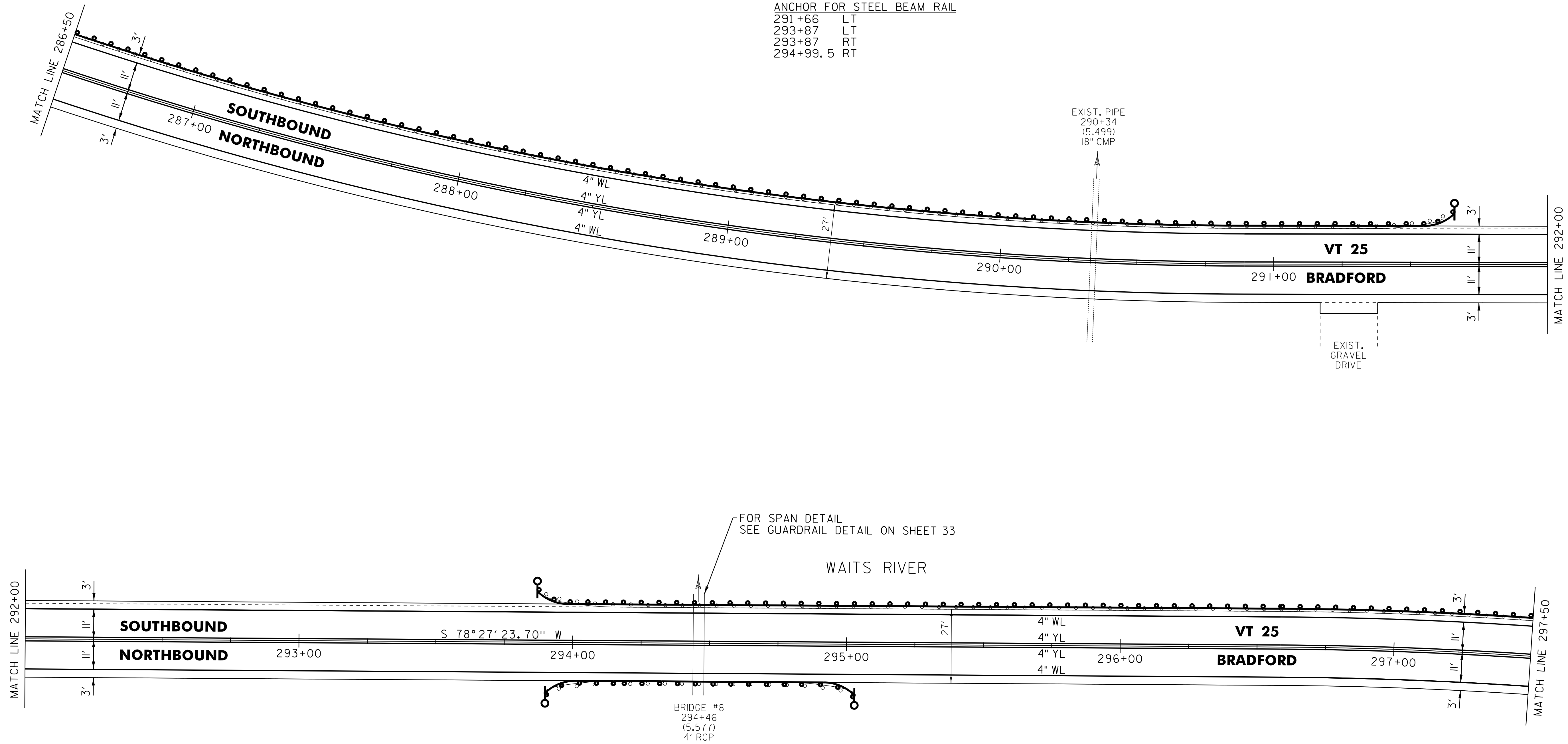
STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
286+50 TO 291+66 LT
293+87 TO 294+24.5 LT
294+62 TO 297+50 LT
294+62 TO 294+99.5 RT

STEEL BEAM GUARDRAIL, GALVANIZED/NESTED W/8 FEET POSTS
294+24.5 TO 294+62 LT
294+24.5 TO 294+62 RT

ANCHOR FOR STEEL BEAM RAIL
291+66 LT
293+87 LT
293+87 RT
294+99.5 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
286+50 TO 291+62 LT
293+90 TO 297+50 LT
293+90 TO 295+03 RT

DELINEATOR WITH STEEL POST
291+66 LT
293+87 LT
293+87 RT
294+99.5 RT



LEGEND

- R = REMOVE EXISTING
- S = SALVAGED
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = EXISTING GUARDRAIL
- = PROPOSED GUARDRAIL
- = YELLOW LINE
- = WHITE LINE
- = DELINEATOR
- ||||| = RUMBLE STRIP

ROADWAY LAYOUT 33 VT 25

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(I)	
FILE NAME: pl0b236.dgn	PLOT DATE: 03-SEP-2014 12:51
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: pl0b236_74	SHEET 74 OF 105

NOT TO SCALE

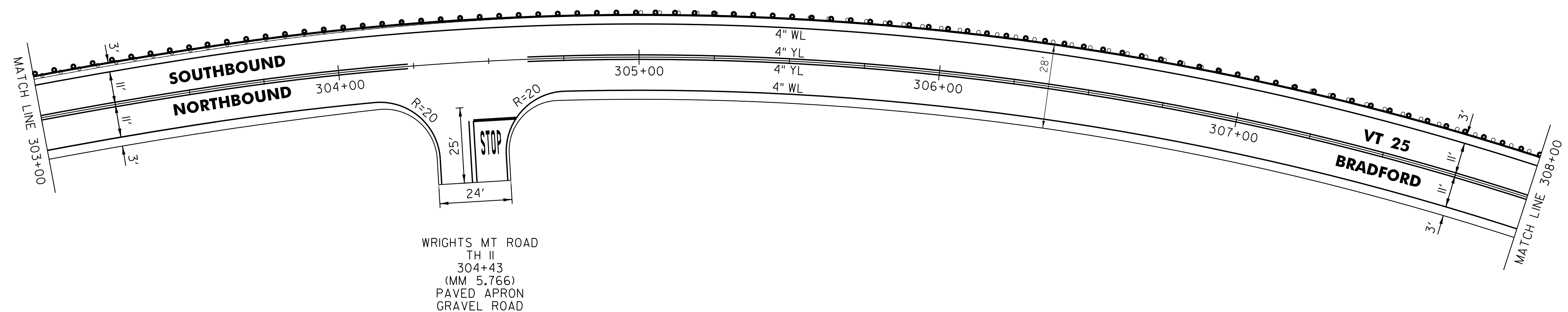
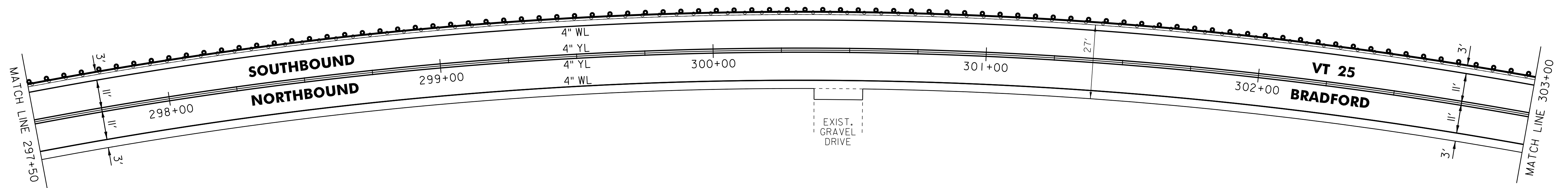
TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
297+50 TO 308+00 SOLID LT
297+50 TO 304+11 SOLID RT
304+11 TO 304+32 SOLID RT (TH 11)
304+55 TO 304+75 SOLID RT (TH 11)
304+75 TO 308+00 SOLID RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
297+50 TO 304+23 SOLID LT & RT
304+43 DOUBLE SOLID RT (TH 11)
304+63 TO 308+00 SOLID LT & RT

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
304+44 TO 304+58 RT (TH 11)
TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
304+49 RT - "STOP" (TH 11)

STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
297+50 TO 308+00 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
297+50 TO 308+00 LT



LEGEND

R	=	REMOVE EXISTING
S	=	SALVAGED
R&S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
	=	EXISTING GUARDRAIL
	=	PROPOSED GUARDRAIL
YL	=	YELLOW LINE
WL	=	WHITE LINE
	=	DELINEATOR
	=	RUMBLE STRIP

ROADWAY LAYOUT 34 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_75

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 75 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
308+00 TO 318+50 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
308+00 TO 318+50 SOLID LT & RT

REHAB. DROP INLETS
CATCH BASINS, OR MANHOLES,
CLASS I, CLASS II
315+69 LT (DI)

STEEL BEAM GUARDRAIL, GALVANIZED
314+90 TO 318+50 LT

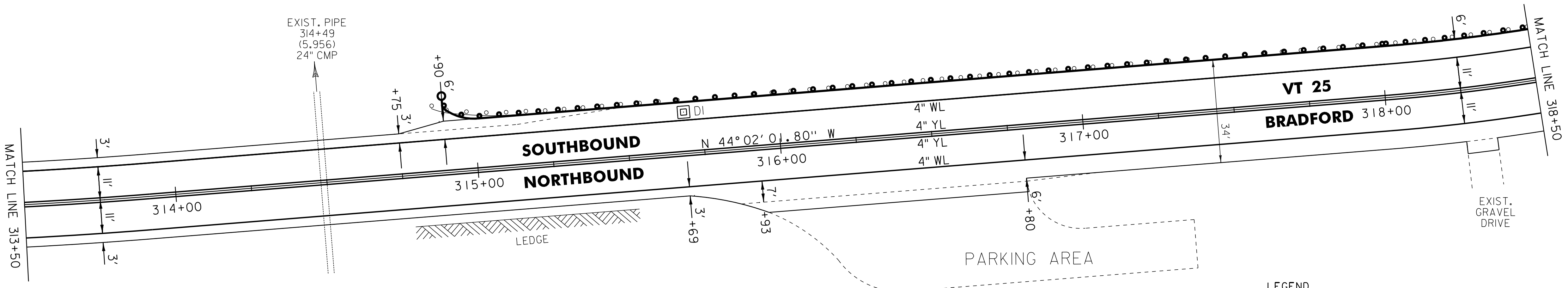
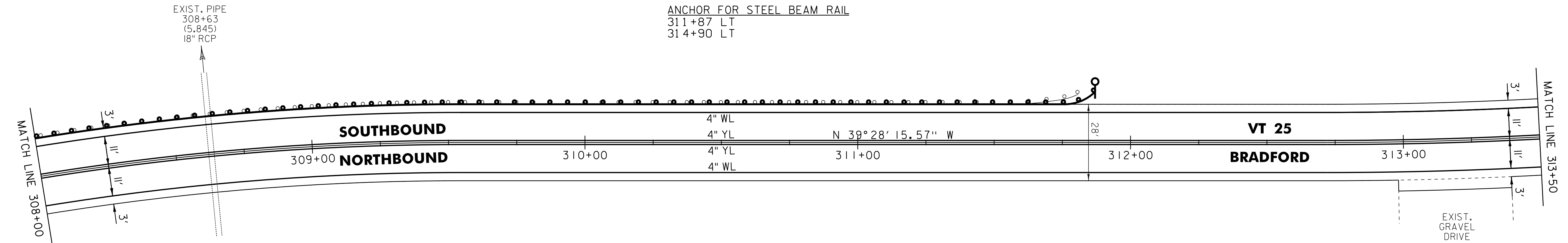
STEEL BEAM GUARDRAIL, GALVANIZED W/8 FEET POSTS
308+00 TO 311+87 LT

ANCHOR FOR STEEL BEAM RAIL
311+87 LT
314+90 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
308+00 TO 311+81 LT
314+86 TO 318+50 LT

DELINEATOR WITH STEEL POST
311+87 LT
314+90 LT

TREATED TIMBER CURB
315+65 TO 318+50 LT



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||||| = RUMBLE STRIP

NOT TO SCALE

ROADWAY LAYOUT 35 VT 25

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2917(I)	
FILE NAME: pl0b236.dgn	PLOT DATE: 03-SEP-2014 12:51
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: pl0b236_76	SHEET 76 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
318+50 TO 319+51 SOLID LT
318+50 TO 324+00 SOLID RT
319+51 TO 319+84 SOLID LT (TH 1)
320+07 TO 320+33 SOLID LT (TH 1)
320+33 TO 324+00 SOLID LT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
318+50 TO 319+68 SOLID LT & RT
319+92 TO 319+96 DOUBLE SOLID LT (TH 1)
320+08 TO 324+00 SOLID LT & RT

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
319+77 TO 319+91 LT (TH 1)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
319+87 LT - "STOP" (TH 1)

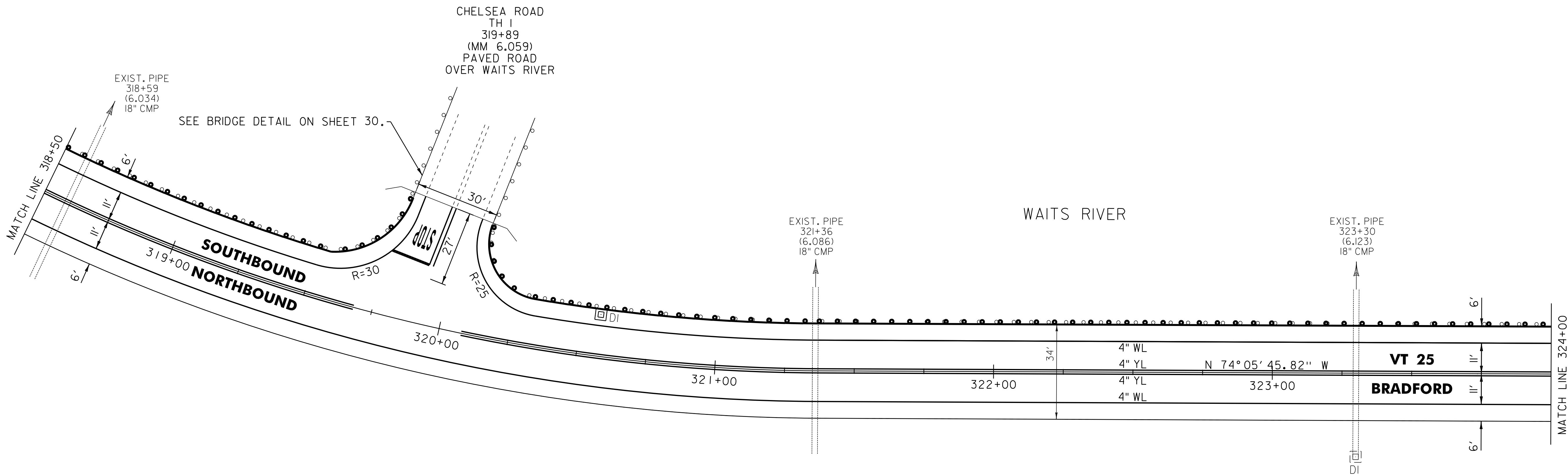
REHAB. DROP INLETS
CATCH BASINS, OR MANHOLES,
CLASS I, CLASS II
320+57 LT (DI)

STEEL BEAM GUARDRAIL, GALVANIZED
318+50 TO 319+68 LT
320+28 TO 324+00 LT

HD STEEL BEAM GUARDRAIL, GALVANIZED
319+68 TO 319+79 LT
320+12 TO 320+28 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
318+50 TO 319+79 LT
320+12 TO 324+00 LT

TREATED TIMBER CURB
318+50 TO 319+79 LT (END @ BRIDGE)
320+53 TO 322+80 LT



LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
	= DELINEATOR
	= RUMBLE STRIP

ROADWAY LAYOUT 36 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_77

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 77 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
324+00 TO 335+50 SOLID LT
324+00 TO 331+39 SOLID RT
331+39 TO 332+08 SOLID RT (TH 8)
332+54 TO 332+69 SOLID RT (TH 8)
332+69 TO 335+50 SOLID RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
324+00 TO 331+94 SOLID LT & RT
332+14 TO 332+31 DOUBLE SOLID RT (TH 8)
332+34 TO 335+50 SOLID LT & RT

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
332+14 TO 332+55 RT (TH 8)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
332+36 RT - "STOP" (TH 8)

REHAB. DROP INLETS
CATCH BASINS, OR MANHOLES,
CLASS I, CLASS II
332+43 RT (DI) (TH 8)

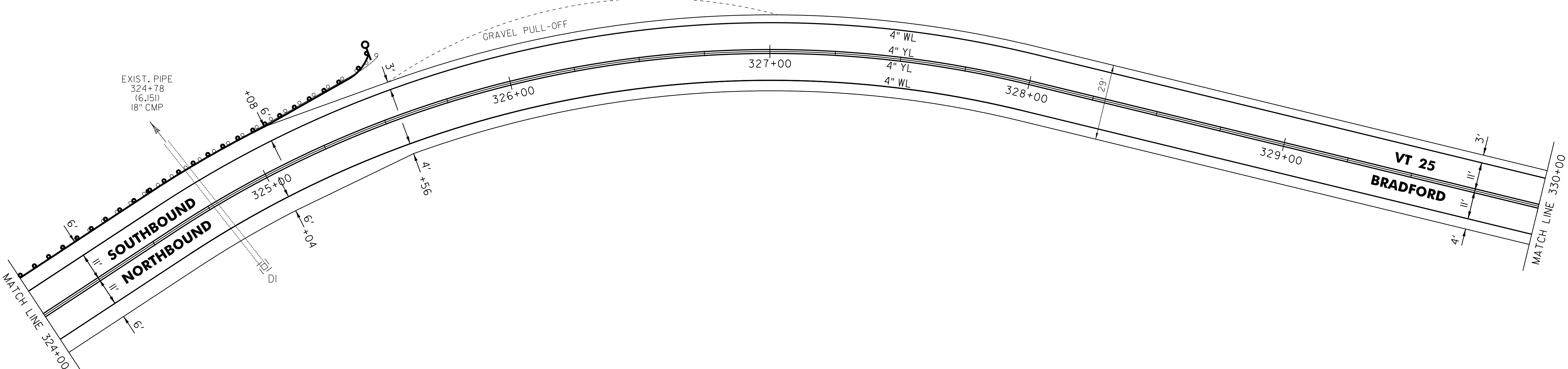
SHOULDER BERM REMOVAL
330+26 TO 332+97 LT
332+54 TO 335+18 RT
334+37 TO 335+50 LT
334+63 TO 335+50 RT

STEEL BEAM GUARDRAIL, GALVANIZED
324+00 TO 325+53 LT

ANCHOR FOR STEEL BEAM RAIL
325+53 LT

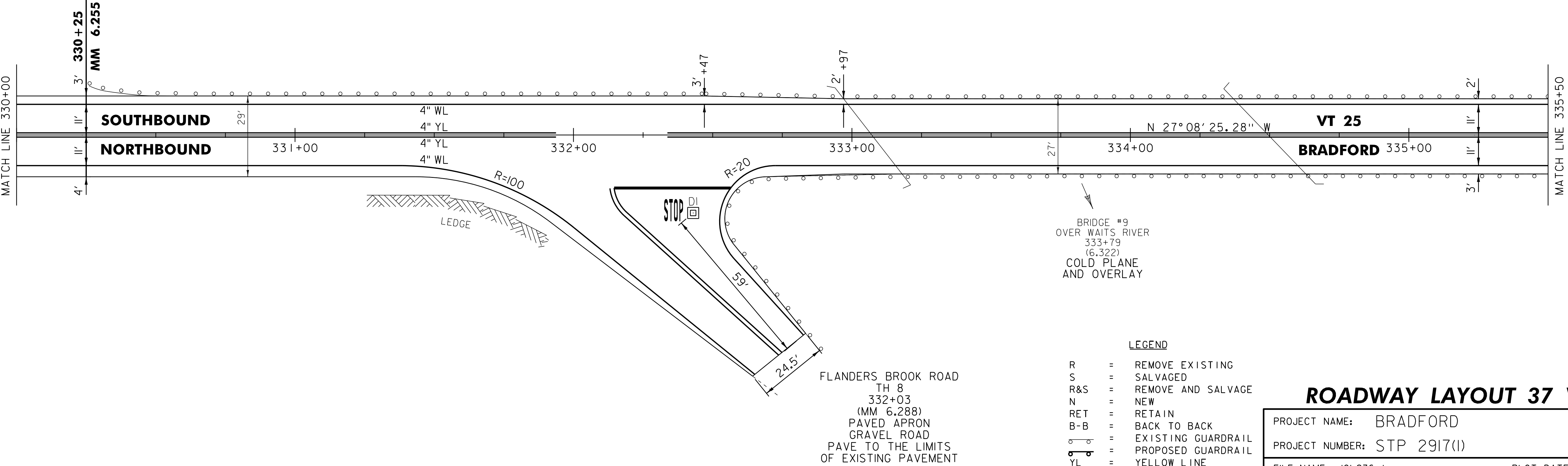
REMOVAL AND DISPOSAL OF GUARDRAIL
324+00 TO 325+56 LT

DELINEATOR WITH STEEL POST
325+53 LT



END LEVEL
AND OVERLAY

BEGIN COLD PLANE
AND OVERLAY



FLANDERS BROOK ROAD
TH 8
332+03
(MM 6.288)
PAVED APRON
GRAVEL ROAD
PAVE TO THE LIMITS
OF EXISTING PAVEMENT

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - EXISTING GUARDRAIL
 - PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - DELINEATOR
 - RUMBLE STRIP

ROADWAY LAYOUT 37 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(I)

FILE NAME: pl0b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pl0b236_78

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

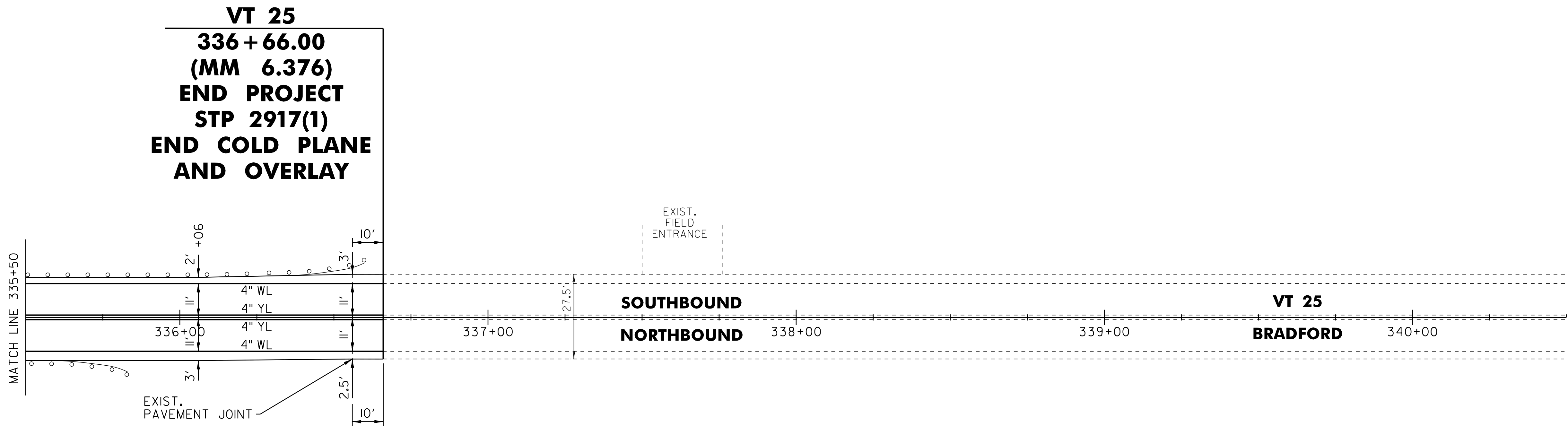
SHEET 78 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
335+50 TO 336+66 SOLID LT & RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
335+50 TO 336+66 SOLID LT & RT

SHOULDER BERM REMOVAL
335+50 TO 336+60 LT
335+50 TO 335+83 RT



- LEGEND**
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - ||||||| = RUMBLE STRIP

ROADWAY LAYOUT 38 VT 25

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2917(1)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10b236_79

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

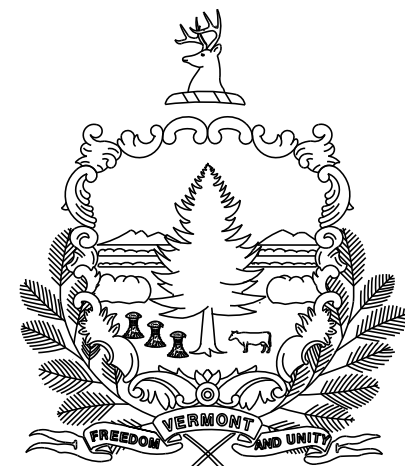
SHEET 79 OF 105

NOT TO SCALE

TRAFFIC SIGN SUMMARY SHEET #1

[illegible]

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWN OF BRADFORD
COUNTY OF ORANGE
VT ROUTE 25B (MAJOR COLLECTOR)

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	362,000
DESIGN NUMBER OF GYRATIONS	65
PERFORMANCE GRADED ASPHALT BINDER	SEE SUBSECTION 490.03(b)

BEGINNING IN BRADFORD AT THE INTERSECTION OF VT 25 AT STATION B0+20.00 (MM 0.004) AND EXTENDING EASTERLY ALONG VT 25B A DISTANCE OF 5090 FEET (0.964 MILES) TO STATION B51+10.00 (MM 0.968) ENDING AT THE INTERSECTION OF US 5.

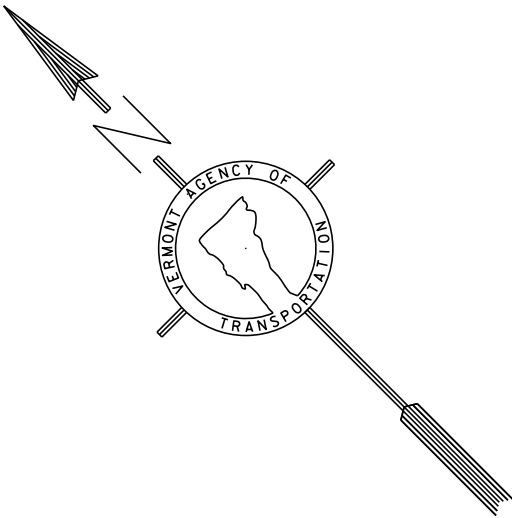
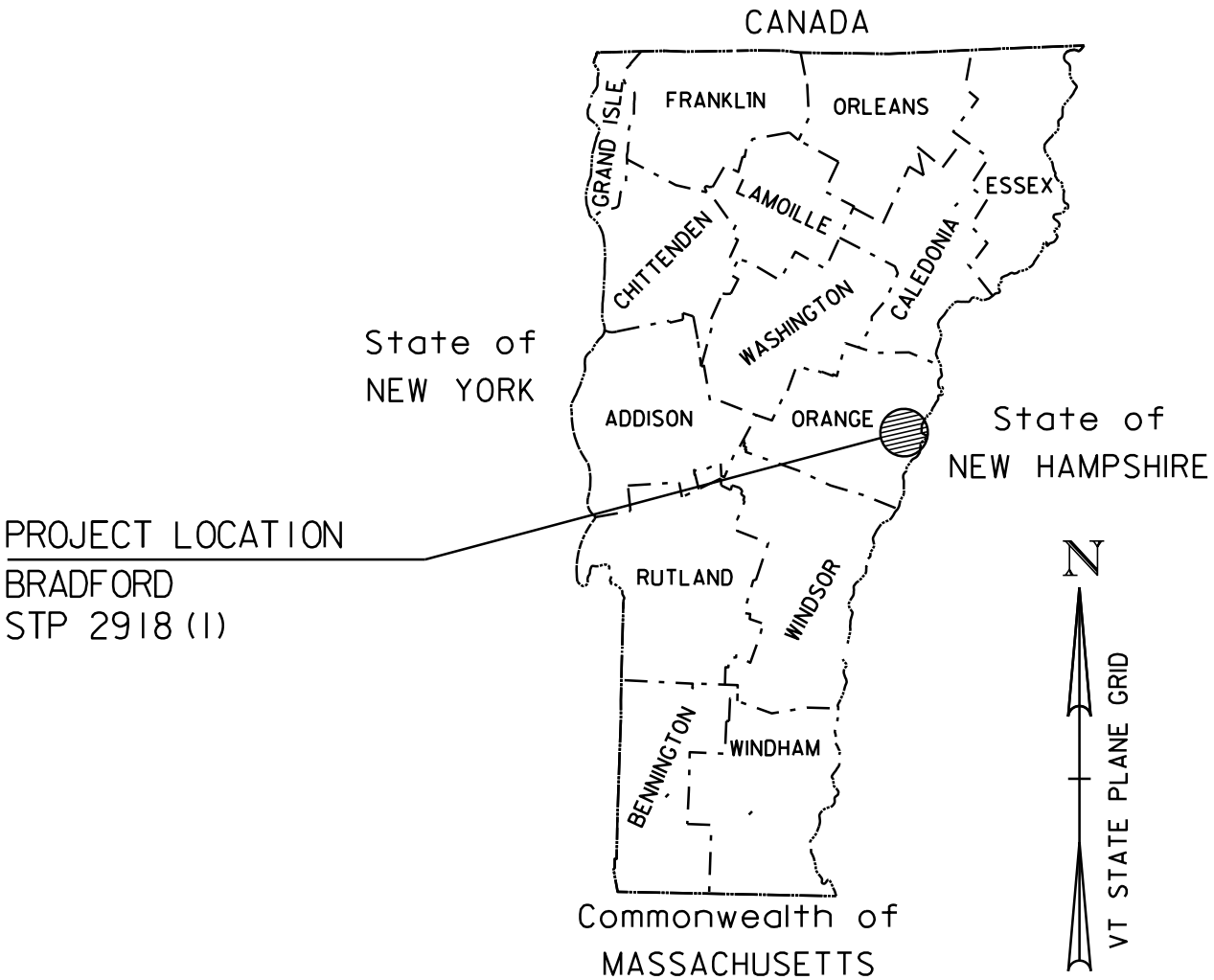
TRAFFIC DATA

LOCATION	AADT		DHV		ESALs	
	2012	2022	2012	2022	2012-2022	2012-2032
VT 25B						
BEGIN PROJECT TO COBBLESTONE ALY	2300	2300	260	260	333,000	724,000
COBBLESTONE ALY TO END PROJECT	1900	1900	210	210	300,000	648,000

FROM TO
BRADFORD STA B0+20.00 (MM 0.004) STA B51+10.00 (MM 0.968)

LENGTH OF ROADWAY = 5,090.00 FEET (0.964 MILES)
LENGTH OF PROJECT = 5,090.00 FEET (0.964 MILES)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING, RESURFACING WITH A LEVELING COURSE AND WEARING COURSE, NEW PAVEMENT MARKINGS, GUARDRAIL, AND OTHER RELATED HIGHWAY ITEMS.

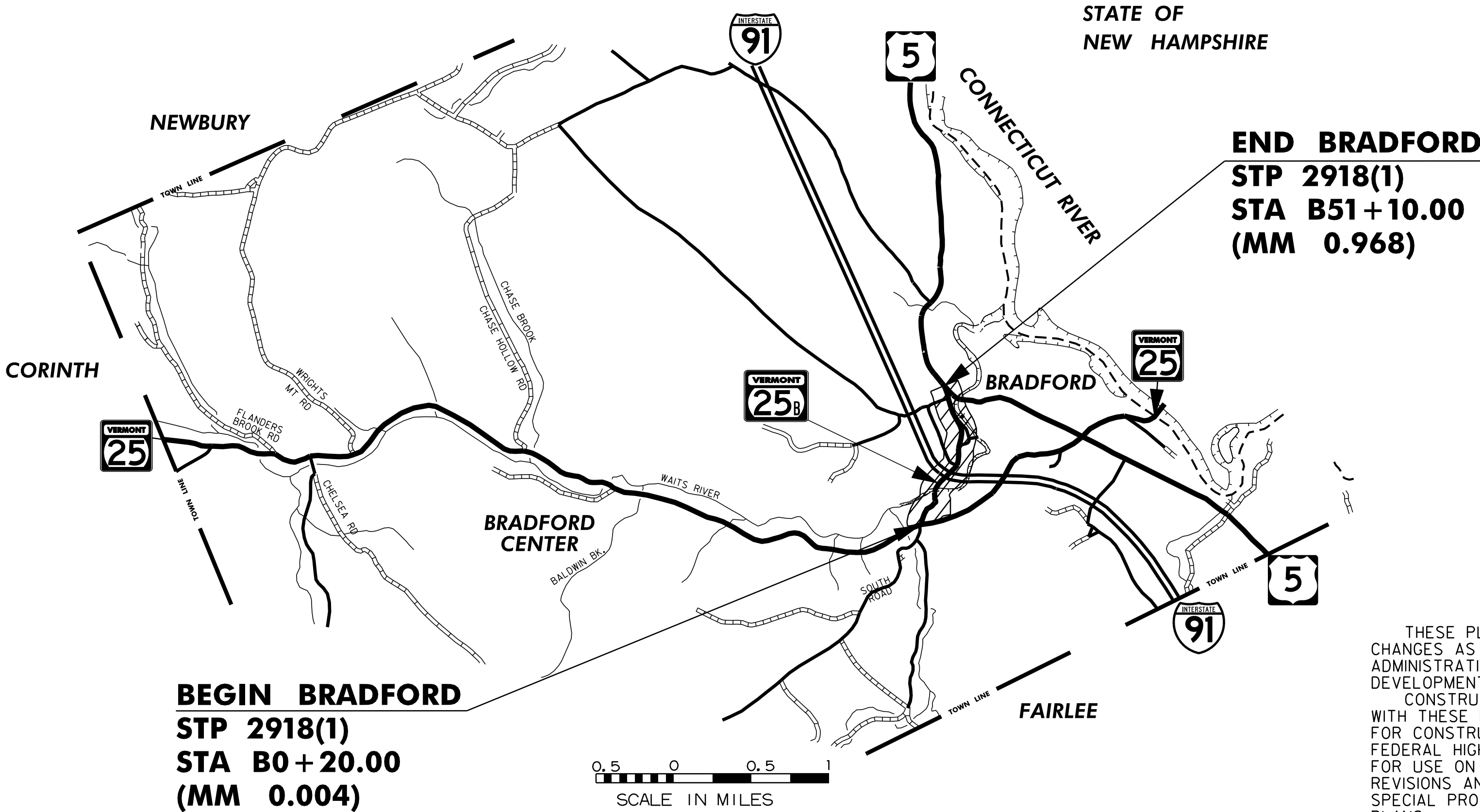


QUALITY ASSURANCE PROGRAM: LEVEL 3

CID CONSULTING ENGINEERS
540 Commercial Street, Manchester, NH 03101
(603) 668-8223 • Fax: (603) 668-8802
cid@cidengineers.com • www.cidengineers.com
Maine • New Hampshire • Vermont

CONVENTIONAL SYMBOLS

COUNTY LINE		COUNTY LINE
TOWN LINE		TOWN LINE
LIMITS OF ACCESS		
POINT OF ACCESS		
FENCE LINE		
STONE WALL		
TRAVELED WAY		
GUARD RAIL		
RAILROAD		
SURVEY LINE		
CULVERT		
POWER POLE		
TELEPHONE POLE		
TREES		
CONTROL OF ACCESS		
PROPERTY LINE		
R.O.W. TAKING LINE		
SLOPE RIGHTS		
TOP OF CUT		
TOE OF SLOPE		



UNLESS OTHERWISE NOTED, ALL DRAWING AND DETAILS ON THE PLANS ARE DRAWN "NOT TO SCALE".

RIGHT-OF-WAY LIMITS, IF APPLICABLE, ARE PROVIDED SOLELY FOR THE CONVENIENCE OF THE STATE AND ITS CONTRACTOR DURING THE COURSE OF THIS PAVING PROJECT. ANY REFERENCES TO OFFSETS ON THESE PLANS ARE APPROXIMATE AND SHOULD NOT BE RELIED UPON FOR ANY OTHER PURPOSES.

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

PROJECT MANAGER : MICHAEL FOWLER

PROJECT NAME : BRADFORD
PROJECT NUMBER: STP 2918(1)

SHEET 81 OF 105 SHEETS

GENERAL NOTES

1. THE PAVEMENT WEARING COURSE SHALL BE TYPE IVS. THE LEVELING COURSE SHALL BE TYPE IVS. ITEM 490.30, AS SHOWN ON THE TYPICALS, UNLESS DIRECTED BY THE ENGINEER. ALL PG BINDER USED IN SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH SUBSECTION 490.03(b).
2. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = 1/4" +/- (TOTAL THICKNESS EXCLUDING LEVELING COURSE).
3. ALL SIDE ROADS ARE TO BE PAVED 25 FEET FROM THE EDGE OF MAINLINE UNLESS OTHERWISE SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER.
4. GRASS GROWING ADJACENT TO THE PAVEMENT OR THROUGH CRACKS IN THE PAVEMENT, WHICH MAY HAMPER THE PLACEMENT OF NEW BITUMINOUS CONCRETE PAVEMENT, SHALL BE REMOVED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
5. THE CULVERT PIPES SHOWN IN THE PLANS ARE TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THE ENGINEER SHALL DETERMINE WHETHER THE COMPACTION EFFORT OVER EXISTING CULVERTS SHOULD BE REDUCED. ALL CULVERTS ARE TO BE RETAINED.
6. THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ON BRIDGE DECKS. SHOULD ANY DAMAGE OCCUR TO THE DECK OR MEMBRANE AS A RESULT OF THESE OPERATIONS THE ENGINEER SHALL CONTACT THE VTRANS CONSTRUCTION STRUCTURES ENGINEER TO PROVIDE AN ASSESSMENT OF THE DAMAGE AND RECOMMEND ANY NECESSARY REPAIRS. THE CONSTRUCTION STRUCTURES ENGINEER WILL ALSO DETERMINE IF THE DAMAGE WAS AVOIDABLE. IF THE CONTRACTOR IS DETERMINED BY THE ENGINEER TO BE AT FAULT FOR THE DAMAGE, THE RECOMMENDED REPAIRS SHALL BE COMPLETED BY THE CONTRACTOR AT NO COST TO THE STATE.
7. ALL NECESSARY SURFACE PREPARATION INVOLVING PATCHING, POT HOLE REPAIR, AND CRACK SEALING SHALL BE PERFORMED FOLLOWING COLD PLANING AND PRIOR TO PAVING. THE PATCHING OF ALL CRACKS GREATER THAN 1.0" AND POT HOLE REPAIR SHALL BE COMPLETED USING BITUMINOUS CONCRETE PAVEMENT IN ACCORDANCE WITH ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE 1). ALL BRIDGE DECKS WITHIN THE PROJECT LIMITS SHALL ALSO RECEIVE CRACK SEALING AND RELATED SURFACE PREPARATION PRIOR TO PAVING. AN ESTIMATED QUANTITY FOR THIS ITEM HAS BEEN INCLUDED TO COVER ALL COSTS ASSOCIATED WITH THIS WORK.

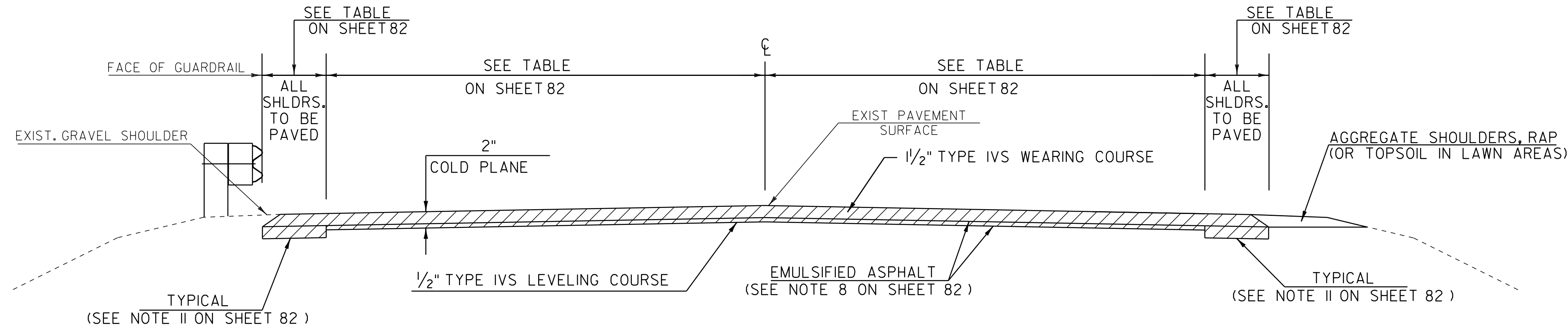
8. ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-IH OR CRS-IH) SHALL BE APPLIED ON ALL COLD PLANED SURFACES AT A RATE OF 0.080 GAL/SY OR AS DIRECTED BY THE ENGINEER. SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-IH OR CRS-IH) SHALL BE APPLIED BETWEEN ALL PAVED SURFACES AT A RATE OF 0.025 TO 0.040 GAL/SY.
9. COLD PLANING SHALL BE COMPLETED ACCORDING TO THE TYPICALS OR AS DENOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGIN/END AND AT ALL SIDE ROAD APPROACHES AS SHOWN ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER. ALL JOINTS SHALL BE SAW CUT, INCIDENTAL TO ITEM 210.10 COLD PLANING, BITUMINOUS PAVEMENT.
10. AN ESTIMATED QUANTITY OF ITEM 203.40 SHOULDER BERM REMOVAL HAS BEEN INCLUDED FOR THE REMOVAL OF BUILT UP SAND, SOD ETC ADJACENT TO THE SHOULDER, IN GUARDRAIL AREAS, TO ALLOW FREE DRAINAGE OFF THE SHOULDER.
11. EXISTING SHOULDER MATERIAL DEEMED UNSUITABLE BY THE ENGINEER SHALL BE EXCAVATED TO A DEPTH OF 3" OR AS DIRECTED BY THE ENGINEER. EXCAVATION SHALL BE PAID FOR USING APPROPRIATE RENTAL ITEMS. MATERIAL REMOVED SHALL BE REPLACED WITH ITEM 301.40 SUBBASE, RAP. EXCAVATED MATERIAL SHALL BE SPREAD ON THE ADJACENT SLOPES OR REMOVED FROM THE PROJECT AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE DONE BEFORE THE LEVELING COURSE IS PLACED. SEE THE PROJECT PAVING LIMITS TABLE ON THIS SHEET FOR PROPOSED PAVEMENT WIDTHS.
12. ALL EDGES OF PAVEMENT ON MAINLINE SHALL CONFORM TO THE SAFETY EDGE DETAIL (ON SHEET 9). ALL EDGES OF PAVEMENT AND ALL CURB AT GUARDRAIL LOCATIONS SHALL BE BACKED UP FULL HEIGHT PAID UNDER ITEM 402.13 AGGREGATE SHOULDERS, RAP.
13. INSTALLATION, COMPACTION, GRADING, AND CLEAN UP OF ITEM 301.28 SUBBASE OF CRUSHED GRAVEL, FINE GRADED, ITEM 402.13 AGGREGATE SHOULDERS, RAP AND ITEM 651.35 TOPSOIL, IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE OF EACH ITEM.
14. AN ESTIMATED QUANTITY OF ITEM 608.15 POWER GRADER RENTAL HAS BEEN INCLUDED FOR REMOVING BUILT UP SAND, SOD ETC. ADJACENT TO THE SHOULDER, IN NON-GUARDRAIL AREAS, TO ALLOW FREE DRAINAGE OFF THE SHOULDER.
15. ITEMS 604.412, AND 604.415 ARE ESTIMATED ITEMS AND SHALL BE PERFORMED AT LOCATIONS SHOWN ON THE ROADWAY LAYOUT SHEETS OR AS DIRECTED BY THE ENGINEER. ALL DI'S SHALL BE RAISED OR REHABILITATED SUCH THAT THE NEW GRATE ELEVATION MATCHES WITH THE SURROUNDING TERRAIN. DRAINAGE STRUCTURES CALLING FOR REHAB HAVE BEEN DISTRIBUTED BETWEEN ITEMS 604.412 AND 604.415. FOR ESTIMATING PURPOSES THE DISTRIBUTION IS AS FOLLOWS: 604.412 80%, 604.415 20%.
16. 25 CUBIC YARDS OF ITEM 203.30 EARTH BORROW HAS BEEN INCLUDED AT EACH GUARDRAIL FLARE TO PROVIDE FOR FLARE CONSTRUCTION. THE GUARDRAIL FLARES SHALL BE CAPPED WITH AN ESTIMATED 3 INCH DEPTH OF DITCHING MATERIAL OR TOPSOIL UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ITEM 653.20 TEMPORARY EROSION MATTING SHALL BE PLACED ON SLOPES GREATER THAN 1:6 CREATED BY THE GUARDRAIL FLARE. THE QUANTITIES REFLECT 25 SY OF ITEM 653.20, TEMPORARY EROSION MATTING FOR EACH NEW GUARDRAIL FLARE.
17. AN ESTIMATED QUANTITY OF ITEM 619.17 YIELDING MARKER POSTS HAS BEEN INCLUDED TO DELINEATE PIPE INLETS, PIPE OUTLETS AND DROP INLETS LOCATED OUTSIDE OF THE PAVEMENT SURFACE OR AS DIRECTED BY THE ENGINEER.
18. ITEM 646.76 LINE STRIPING TARGETS SHALL BE PLACED AS OUTLINED IN THE VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION FOR THE PLACEMENT OF THE WHITE EDGE LINES AND YELLOW CENTER LINES.
19. INSTALL NEW SIGNS, AS SHOWN ON THE ROADWAY LAYOUT SHEETS, ON SQUARE STEEL SIGN POSTS.
20. BITUMINOUS CONCRETE PAVEMENT AT PUBLIC AND/OR PRIVATE AND PERMITTED DRIVES WHICH IS INSTALLED BY HAND SHALL BE PAID FOR UNDER ITEM 900.675 SPECIAL PROVISION (HAND-PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES). BITUMINOUS CONCRETE MATERIAL PLACED BY MECHANICAL METHODS AT THESE LOCATIONS IS EXCLUDED. ALL OTHER BITUMINOUS MATERIALS PLACED WITHIN THE PROJECT LIMITS, WHETHER BY HAND OR MECHANICAL METHODS, SHALL BE PAID UNDER THE APPROPRIATE CONTRACT PAY ITEM FOR BITUMINOUS CONCRETE PAVEMENT.
21. STEEL BEAM GUARDRAIL WITH STEEL POSTS SHALL BE USED ON THIS PROJECT.
22. ASPHALTIC PLUG-TYPE JOINT, ITEM 516.10 BRIDGE EXPANSION JOINT, ASPHALTIC PLUG, SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS. SEE BRIDGE JOINT ASPHALTIC PLUG (STRUCTURES DETAIL SD-516.10)

BRIDGE 1
B11+30 (MM 0.195) 24' EXP. JOINT
B11+77 (MM 0.223) 24' EXP. JOINT

GENERAL NOTES SHEET

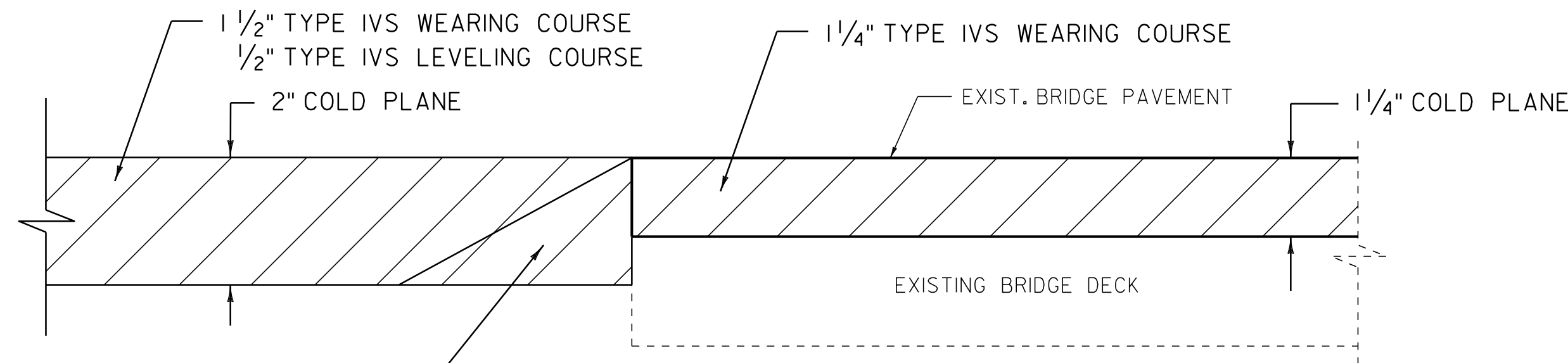
PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2918(1)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:51
PROJECT LEADER: PTS	DRAWN BY: WWG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10C238_82	SHEET 82 OF 105

NOT TO SCALE



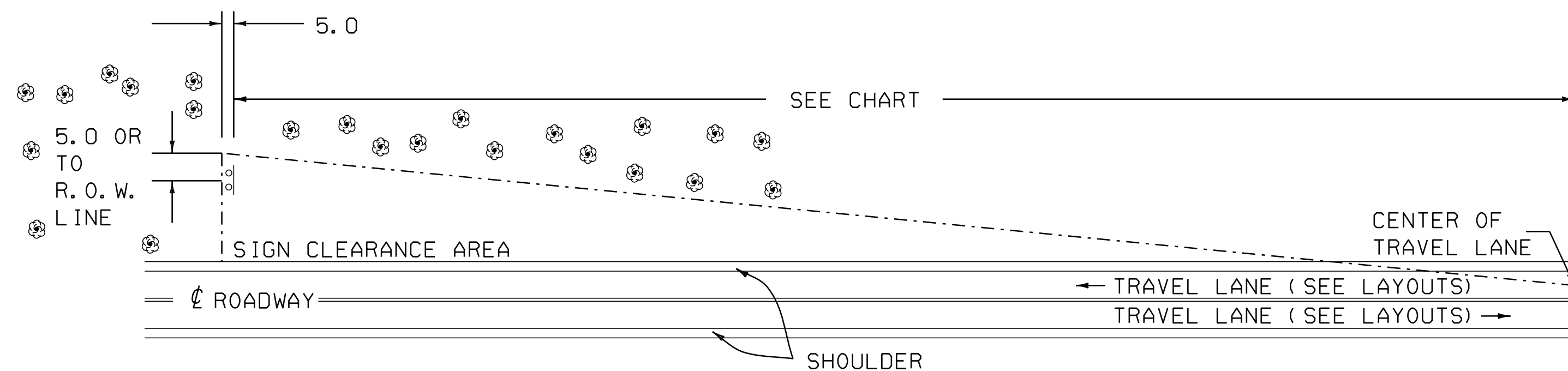
COLD PLANE AND OVERLAY TYPICAL SECTION

LOCATION
B0+20 TO B51+10



BRIDGE APPROACH DETAIL IN COLD PLANE AREAS

LOCATION
BRIDGE 1
B10+30 (MM 0.195)
B11+77 (MM 0.223)



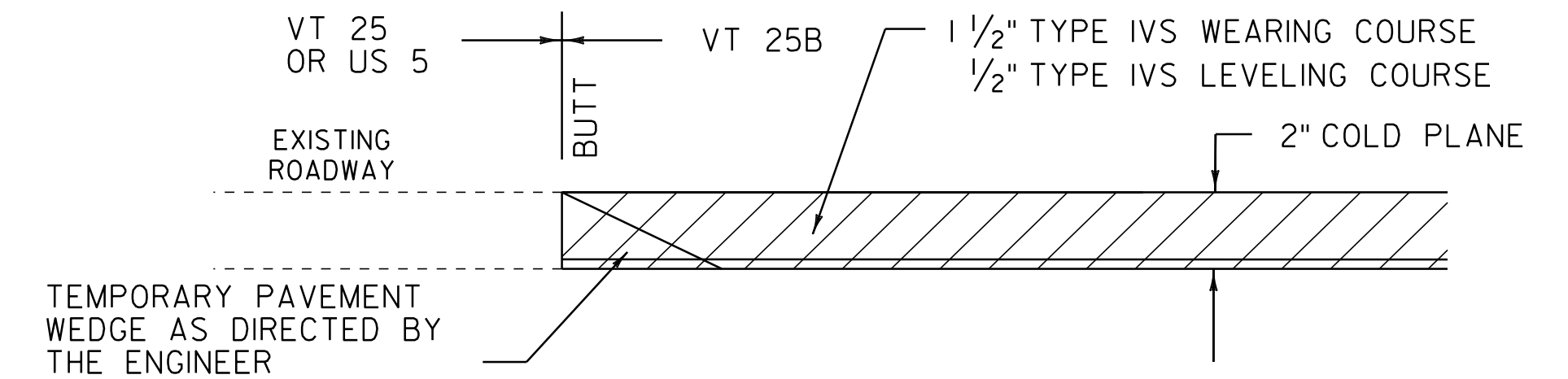
MINIMUM SIGN SIGHT DISTANCE CHART

APPROACH SPEED (mph)	SIGHT DISTANCE (feet)
30 OR LESS	300
35	350
40	400
45	450
50	500
55	550

THINNING AND TRIMMING DETAIL

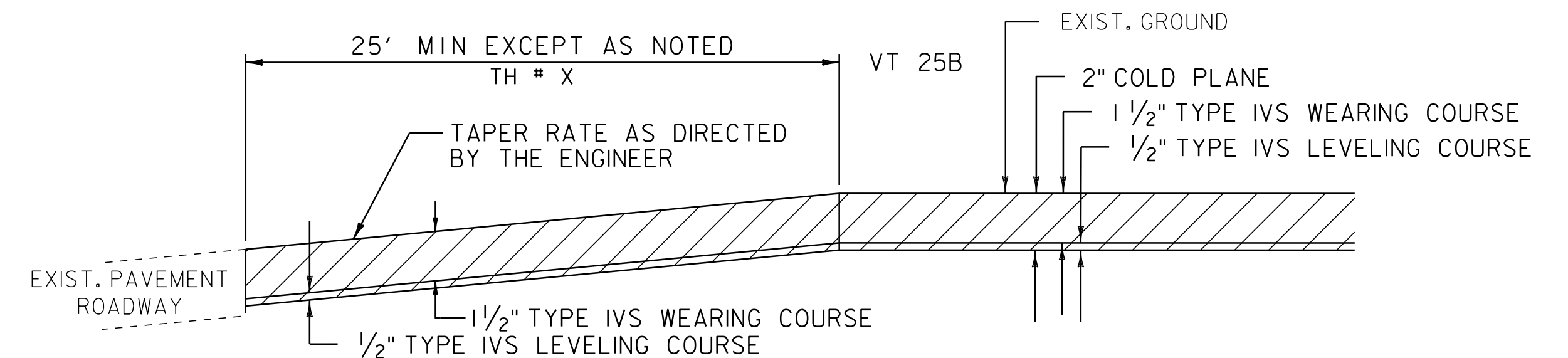
LOCATION
B27+51 LT
B44+36 RT

THE CONTRACTOR SHALL REMOVE ALL WOODY STEMMED GROWTH INCLUDING BRUSH, SAPLINGS AND TREE LIMBS GROWING WITHIN OR PROJECTING INTO THE CLEARANCE AREA AND DOWN TO GROUND LEVEL. PAYMENT WILL BE UNDER ITEM 201.31, THINNING AND TRIMMING FOR SIGNS. NO CHEMICALS (POISONS OR DEFOLIANTS) WILL BE ALLOWED.



APPROACH AREA DETAIL - MAINLINE IN COLD PLANE AREAS

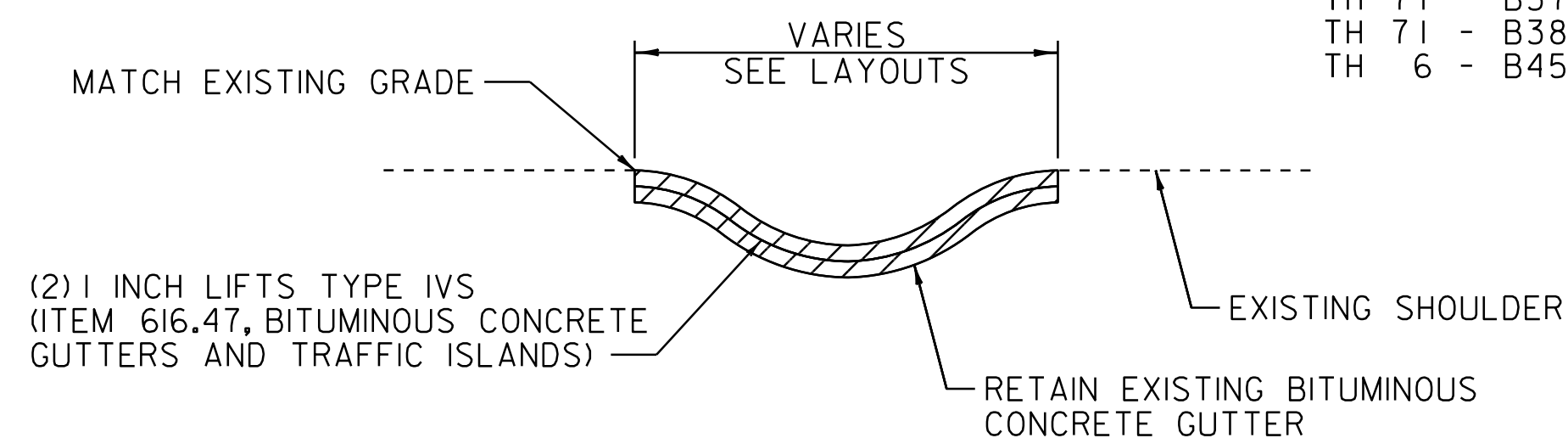
LOCATION
B0+20
B51+10



APPROACH AREA DETAIL FOR PAVED TOWN HIGHWAYS IN COLD PLANE AND OVERLAY AREAS

LOCATION

TH 51 - B 8+98 RT (APPLETON ROAD)
B18+44 LT (MUNN ROAD)
TH 75 - B22+79 LT (HIGH ST)
TH 76 - B29+24 LT (PLEASANT ST)
TH 70 - B29+88 RT (MAPLE ST)
TH 65 - B38+85 LT (COBBLESTONE ALY)
TH 71 - B37+72 RT (MILL ST)
TH 71 - B38+48 RT (MILL ST)
TH 6 - B45+73 LT (GOSHEN RD)



BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS

NOT TO SCALE

B37+26 TO B38+72 LT
B37+38 TO B37+55 RT
B46+65 TO B48+04 RT

NOT TO SCALE

PROJECT TYPICAL SHEET 1

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2918(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10C238_83

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: WWG

CHECKED BY: PTS

SHEET 83 OF 105

STATE OF VERMONT AGENCY OF TRANSPORTATION											QUANTITY SHEET 1									
SUMMARY OF ESTIMATED QUANTITIES											TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
							ROADWAY	ROADWAY (NO FED/ STATE PART)	BRIDGE	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITY	UNIT	ITEMS	
							2				2		EACH	THINNING AND TRIMMING FOR SIGNS	201.31	-			COLD PLANING, BITUMINOUS PAVEMENT	
							5				5		CY	COMMON EXCAVATION	203.15	1.6	17009	SY	VT 25B	
							200				200		CY	EARTH BORROW	203.30	-	1217	SY	TOWN HIGHWAYS	
							145				145		LF	SHOULDER BERM REMOVAL	203.40	3	18226	SY	SUBTOTAL	
							1				1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-	74	SY	ROUNDING	
							18300				18300		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	74	18300	SY	TOTAL	
							570				570		TON	SUBBASE, RAP	301.40	1.8			SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	
							360				360		TON	AGGREGATE SHOULDERS, RAP	402.13	3	1503	TON	VT 25B, TYPE IV S, WEARING COURSE	
							1				1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-	493	TON	VT 25B, TYPE IV S, LEVELING COURSE	
							2110				2110		TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	490.30	8	106	TON	TOWN HIGHWAYS, TYPE IV S	
							1				1		LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-	2102	TON	SUBTOTAL	
							1				1		LU	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.)	490.32	-	8	TON	ROUNDING	
							1				1		LU	SURFACE TOLERANCE PAY ADJUSTMENT (N.A.B.I.)	490.33	-	2110	TON	TOTAL	
									50		50		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	2				
									10		10		CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE	580.20	EST.				
							10				10		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS I	604.412	EST.				
							3				3		EACH	REHAB. DROP INLETS, CATCH BASINS, OR MANHOLES, CLASS II	604.415	EST.				
								14			14		EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42	-				
							20				20		HR	POWER GRADER RENTAL	608.15	EST.				
							70				70		HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.				
							20				20		HR	POWER BROOM RENTAL, TYPE I	608.30	EST.				
							140				140		HR	TRUCK RENTAL	608.37	EST.				
							70				70		HR	LOADER RENTAL, TYPE I	608.40	EST.				
							90				90		CY	STONE FILL, TYPE I	613.10	1				
							35				35		TON	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47	1.4				
							25				25		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	1				
							80				80		SF	DETECTABLE WARNING SURFACE	618.30	2				
							10				10		EACH	YIELDING MARKER POSTS	619.17	EST.				
							875				875		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20	9				
							8				8		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60	-				
							2				2		EACH	REPLACE GUARDRAIL POST ASSEMBLY	621.76	EST.				
							2				2		EACH	REPLACE GUARDRAIL BEAM UNIT	621.77	EST.				
							850				850		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80	5.5				
								9			9		EACH	ADJUST ELEVATION OF VALVE BOX	629.20	-				
							170				170		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.				
							600				600		HR	FLAGGERS	630.15	EST.				
										0.5	0.5		LS	FIELD OFFICE, ENGINEERS	631.10	-	PROJECT NAME: BRADFORD PROJECT NUMBER: STP 2918(1) FILE NAME: p10b236.dgn PROJECT LEADER: PTS DESIGNED BY: NLL IPARM FILE NAME: p10C238_84			
										0.5	0.5		LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-				
										1500	1500		DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26	-				
							0.5				0.5		LS	MOBILIZATION/DEMOBILIZATION	635.11	-				
																	PLOT DATE: 03-SEP-2014 12:51 DRAWN BY: WWG CHECKED BY: PTS SHEET 84 OF 105			

STATE OF VERMONT AGENCY OF TRANSPORTATION											QUANTITY SHEET 2											
SUMMARY OF ESTIMATED QUANTITIES											TOTALS		DESCRIPTIONS						DETAILED SUMMARY OF QUANTITIES			
							ROADWAY	ROADWAY (NO FED/ STATE PART)	BRIDGE	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITY	UNIT	ITEMS			
							I				I		LS	TRAFFIC CONTROL (STP 2918(I)) (MAJOR COLLECTOR)	641.10	-						
							I				I		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-						
														BEGIN OPTION AA								
							10400				10400		LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402	107						
							10400				10400		LF	DURABLE 4 INCH WHITE LINE, EPOXY PAINT	646.403	107						
							10400				10400		LF	DURABLE 4 INCH WHITE LINE, POLYUREA	646.404	107						
														END OPTION AA								
														BEGIN OPTION BB								
							10300				10300		LF	DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC	646.412	106						
							10300				10300		LF	DURABLE 4 INCH YELLOW LINE, EPOXY PAINT	646.413	106						
							10300				10300		LF	DURABLE 4 INCH YELLOW LINE, POLYUREA	646.414	106						
														END OPTION BB								
														BEGIN OPTION CC								
							100				100		LF	DURABLE 8 INCH WHITE LINE, THERMOPLASTIC	646.442	2						
							100				100		LF	DURABLE 8 INCH WHITE LINE, EPOXY PAINT	646.443	2						
							100				100		LF	DURABLE 8 INCH WHITE LINE, POLYUREA	646.444	2						
														END OPTION CC								
														BEGIN OPTION DD								
							35				35		LF	DURABLE 12 INCH WHITE LINE, THERMOPLASTIC	646.462	3						
							35				35		LF	DURABLE 12 INCH WHITE LINE, EPOXY PAINT	646.463	3						
							35				35		LF	DURABLE 12 INCH WHITE LINE, POLYUREA	646.464	3						
														END OPTION DD								
														BEGIN OPTION EE								
							180				180		LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482	2						
							180				180		LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.483	2						
							180				180		LF	DURABLE 24 INCH STOP BAR, POLYUREA	646.484	2						
														END OPTION EE								
														BEGIN OPTION FF								
							58				58		EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492	-						
							58				58		EACH	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.493	-						
							58				58		EACH	DURABLE LETTER OR SYMBOL, POLYUREA	646.494	-						
														END OPTION FF								
														BEGIN OPTION GG								
							70				70		LF	DURABLE CROSSWALK MARKING, THERMOPLASTIC	646.502	-						
							70				70		LF	DURABLE CROSSWALK MARKING, EPOXY PAINT	646.503	-						
							70				70		LF	DURABLE CROSSWALK MARKING, POLYUREA	646.504	-						
														END OPTION GG								
							20800				20800		LF	TEMPORARY 4 INCH WHITE LINE, PAINT	646.602	214						
							20600				20600		LF	TEMPORARY 4 INCH YELLOW LINE, PAINT	646.612	212						
							200				200		LF	TEMPORARY 8 INCH WHITE LINE, PAINT	646.642	4						
																	PROJECT NAME: BRADFORD					
																	PROJECT NUMBER: STP 2918(I)					
																	FILE NAME: p10b236.dgn					
																	PLOT DATE: 03-SEP-2014 12:51					
																	PROJECT LEADER: PTS					
																	DRAWN BY: WWG					
																	DESIGNED BY: NLL					
																	CHECKED BY: PTS					
																	IPARM FILE NAME: p10C238.85					
																	SHEET 85 OF 105					

QUANTITY SHEET 3

[illegible]

[illegible]

THINNING : TRIMMING FOR SIGNS
B 3+50 RT & LT

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
 BO+32 LT - "STOP"

Diagram illustrating a stop sign with the word "STOP" and a "RET" label. The sign is octagonal with a thick black border. The word "STOP" is written in bold, black, sans-serif capital letters. A vertical line extends from the bottom of the sign, labeled "RET". To the right of the sign, the text "RET" is also present.

← Piermont NH 5	N
Bradford Ctr 2 →	N
Barre 27 →	N

EXIST. PIPE
B4+59
(0.087)
PLUGGED

VT 25B

BRADFORD

89+55 LT

B0+79 RT

BI+90 RT

BI+90 R

B3+50 RT

R	=	REMOVE EXISTING
S	=	SALVAGED
R&S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
	=	EXISTING GUARDRAIL
	=	PROPOSED GUARDRAIL
YL	=	YELLOW LINE
WL	=	WHITE LINE
	=	DELINEATOR
	=	PAVEMENT CORE

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: pIOC238_88

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 88 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
B5+00 TO B10+00 SOLID LT
B5+00 TO B8+40 SOLID RT
B8+40 TO B9+19 SOLID RT (TH 51)
B9+32 TO B9+35 SOLID RT (TH 51)
B9+35 TO B10+00 SOLID RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
B5+00 TO B8+88 SOLID LT & RT
B9+08 TO B9+26 DOUBLE SOLID RT (TH 51)
B9+28 TO B10+00 SOLID LT & RT

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
B9+09 TO B9+35 RT (TH 51)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
B5+30 LT - " AHEAD"
B5+70 LT - " STOP"
B9+21 RT - " STOP" (TH 51)

STEEL BEAM GUARDRAIL, GALVANIZED
B9+51 TO B9+88.5 RT
B9+57 TO B9+94.5 LT

ANCHOR FOR STEEL BEAM RAIL
B9+51 RT
B9+57 LT

REMOVAL AND DISPOSAL OF GUARDRAIL
B9+51 TO B9+88.5 RT
B9+57 TO B9+94.5 LT

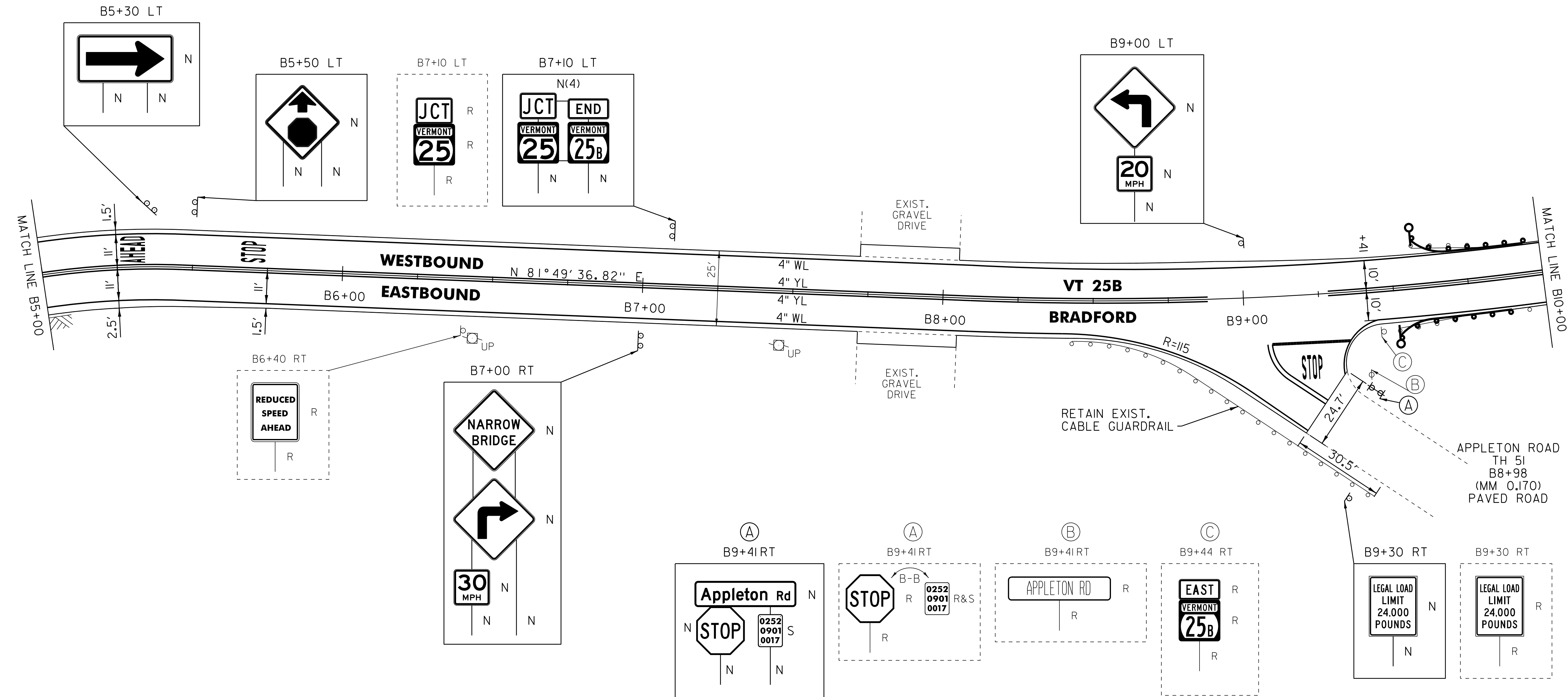
DELINEATOR WITH STEEL POST
B9+51 RT
B9+57 LT

SHOULDER BERM REMOVAL
B8+43 TO B9+39 RT
B9+88 TO B10+00 RT
B9+95 TO B10+00 LT

REMOVING SIGNS
AS SHOWN - 9

ERECTING SALVAGED SIGNS
AS SHOWN - 1

THINNING : TRIMMING FOR SIGNS
B 5+50 LT



NOT TO SCALE

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - = PAVEMENT CORE

ROADWAY LAYOUT 2 VT 25B	
PROJECT NAME:	BRADFORD
PROJECT NUMBER:	STP 2918(I)
FILE NAME:	pl0b236.dgn
PROJECT LEADER:	PTS
DESIGNED BY:	NLL
IPARM FILE NAME:	pl0C238_89
PLOT DATE:	03-SEP-2014 12:51
DRAWN BY:	SNG
CHECKED BY:	PTS
SHEET	89 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
B10+00 TO B15+50 SOLID LT
B10+00 TO B15+50 SOLID RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
B10+00 TO B15+50 SOLID LT & RT

STEEL BEAM GUARDRAIL, GALVANIZED
B11+93 TO B12+30.5 LT
B12+26.5 TO B12+64 RT
B14+30 TO B15+50 RT

ANCHOR FOR STEEL BEAM RAIL
B12+30.5 LT
B12+64 RT
B14+30 RT

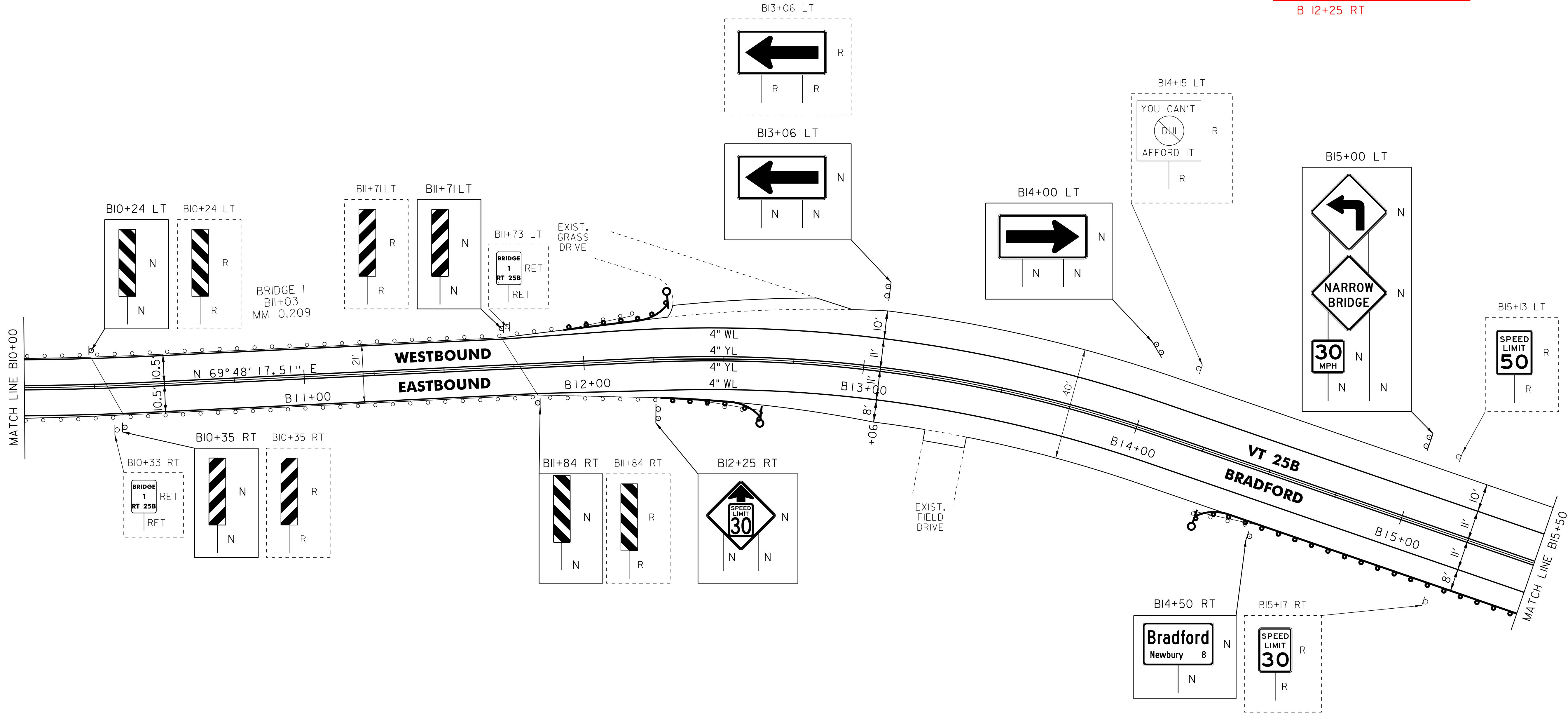
REMOVAL AND DISPOSAL OF GUARDRAIL
B11+93 TO B12+18 LT
B12+26.5 TO B12+64 RT
B14+29 TO B15+50 RT

DELINEATOR WITH STEEL POST
B12+30.5 LT
B12+64 RT
B14+30 RT

SHOULDER BERM REMOVAL
B10+00 TO B12+27 RT
B10+00 TO B11+93 LT

REMOVING SIGNS
AS SHOWN - 8

THINNING & TRIMMING FOR SIGNS
B 12+25 RT



NOT TO SCALE

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - = PAVEMENT CORE

ROADWAY LAYOUT 3 VT 25B

PROJECT NAME: BRADFORD
PROJECT NUMBER: STP 2918(I)

FILE NAME: pl0b236.dgn
PROJECT LEADER: PTS
DESIGNED BY: NLL
IPARM FILE NAME: pl0C238_90

PLOT DATE: 03-SEP-2014 12:51
DRAWN BY: SNG
CHECKED BY: PTS
SHEET 90 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE

B15+50 TO B18+04 SOLID LT
B15+50 TO B21+00 SOLID RT
B18+84 TO B21+00 SOLID LT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE

B15+50 TO B18+24 SOLID LT & RT
B18+64 TO B21+00 SOLID LT & RT

TEMPORARY 8 INCH WHITE LINE, PAINT
DURABLE 8 INCH WHITE LINE
B19+03 TO B19+15 RT (NO PARKING)

STEEL BEAM GUARDRAIL, GALVANIZED
B15+50 TO B18+42.5 RT

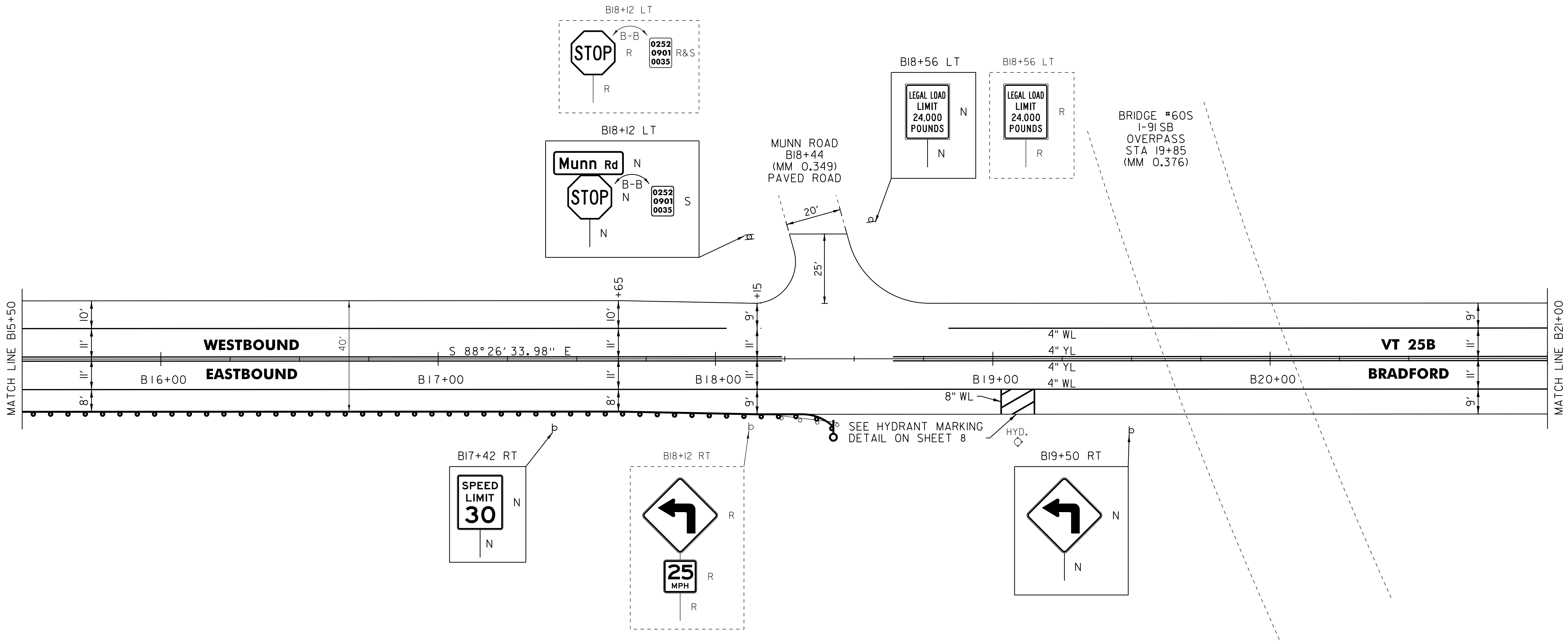
ANCHOR FOR STEEL BEAM RAIL
B18+42.5 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
B15+50 TO B18+44 RT

DELINEATOR WITH STEEL POST
B18+42.5 RT

REMOVING SIGNS
AS SHOWN - 5

ERECTING SALVAGED SIGNS
AS SHOWN - 1



NOT TO SCALE

LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
	= EXISTING GUARDRAIL
	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
	= DELINEATOR
	= PAVEMENT CORE

ROADWAY LAYOUT 4 VT 25B

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2918(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10C238_9I

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 9I OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
B21+00 TO B26+00 SOLID RT
B21+00 TO B22+34 SOLID LT
B22+34 TO B22+56 SOLID LT (TH 75)
B22+80 TO B23+18 SOLID LT (TH 75)
B23+18 TO B26+00 SOLID LT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
B21+00 TO B22+59 SOLID LT & RT
B22+72 TO B22+68 DOUBLE SOLID LT (TH 75)
B22+99 TO B26+00 SOLID LT & RT

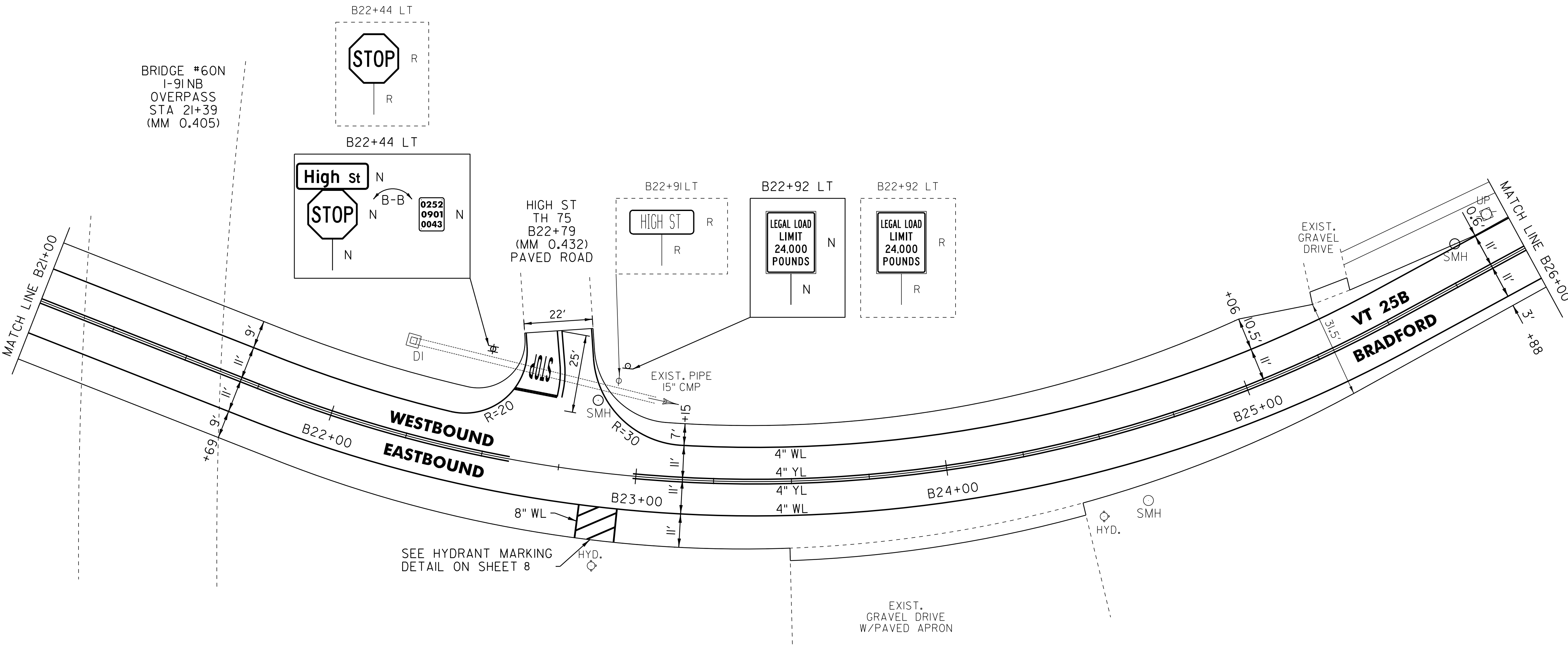
TEMPORARY 8 INCH WHITE LINE, PAINT
DURABLE 8 INCH WHITE LINE
B22+83 TO B22+95 RT (NO PARKING)

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
B22+55 TO B22+71 LT (TH 75)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
B22+64 LT - "STOP" (TH 75)

CHANGING ELEVATION
OF SEWER MANHOLES (NON-PART)
B22+85 LT
B25+81 LT

REMOVING SIGNS
AS SHOWN - 3



NOT TO SCALE

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - = PAVEMENT CORE

ROADWAY LAYOUT 5 VT 25B

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2918(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:51
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10C238_92	SHEET 92 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
B26+00 TO B28+66 SOLID LT
B26+00 TO B29+60 SOLID RT
B28+66 TO B29+04 SOLID LT (TH 76)
B29+20 TO B29+41 SOLID LT (TH 76) (ISLAND)
B29+60 TO B29+80 SOLID RT (TH 70)
B29+65 TO B29+87 SOLID LT (TH 76)
B29+87 TO B31+00 SOLID LT
B30+07 TO B30+26 SOLID RT (TH 70)
B30+26 TO B31+00 SOLID RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
B26+00 TO B28+80 SOLID LT & RT
B28+99 TO B29+08 DOUBLE SOLID LT (TH 76)
B29+20 TO B29+38 SOLID LT & RT
B29+53 TO B29+58 DOUBLE SOLID LT (TH 76)
B29+91 TO B29+93 DOUBLE SOLID RT (TH 70)
B30+11 TO B31+00 SOLID LT & RT

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR

B28+76 TO B28+99 LT (TH 76)
B29+41 TO B29+57 LT (TH 76)
B29+91 TO B30+09 RT (TH 70)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL

B29+03 LT - "STOP" (TH 76)
B29+47 LT - "STOP" (TH 76)
B29+99 RT - "STOP" (TH 70)

THINNING AND TRIMMING FOR SIGNS
B27+51 LT

CHANGING ELEVATION
OF SEWER MANHOLES (NON-PART.)

B28+60 RT
B29+89 RT (TH 70)

ADJUST ELEVATION OF
VALVE BOX (NON-PART.)

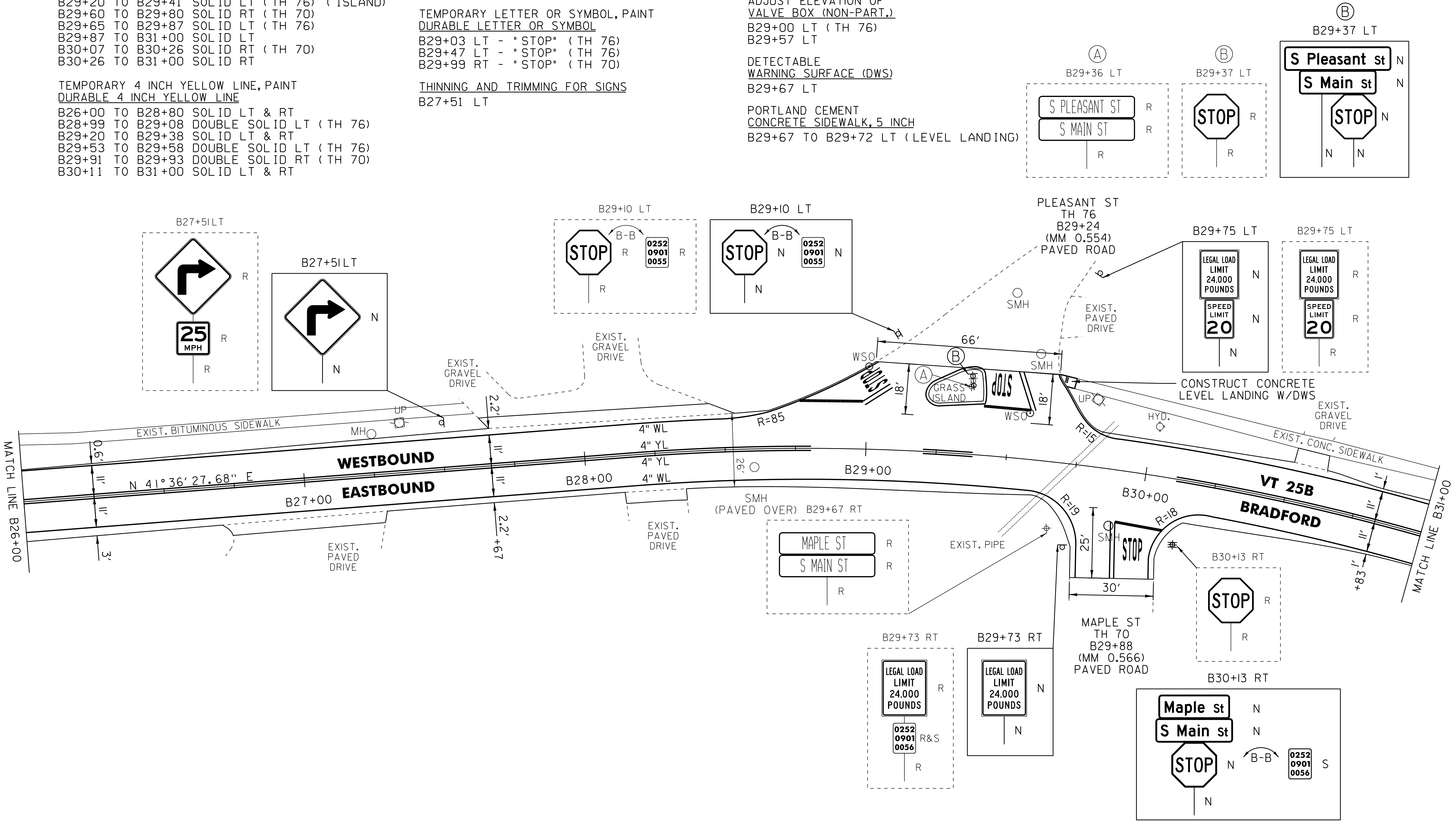
B29+00 LT (TH 76)
B29+57 LT

DETECTABLE
WARNING SURFACE (DWS)
B29+67 LT

PORTLAND CEMENT
CONCRETE SIDEWALK, 5 INCH
B29+67 TO B29+72 LT (LEVEL LANDING)

REMOVING SIGNS
AS SHOWN - 14

ERECTING SALVAGED SIGNS
AS SHOWN - 1



LEGEND

- R = REMOVE EXISTING
- S = SALVAGED
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = EXISTING GUARDRAIL
- = PROPOSED GUARDRAIL
- YL = YELLOW LINE
- WL = WHITE LINE
- = DELINEATOR
- = PAVEMENT CORE

ROADWAY LAYOUT 6 VT 25B

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2918(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10C238_93

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 93 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
B31+00 TO B36+00 SOLID LT & RT

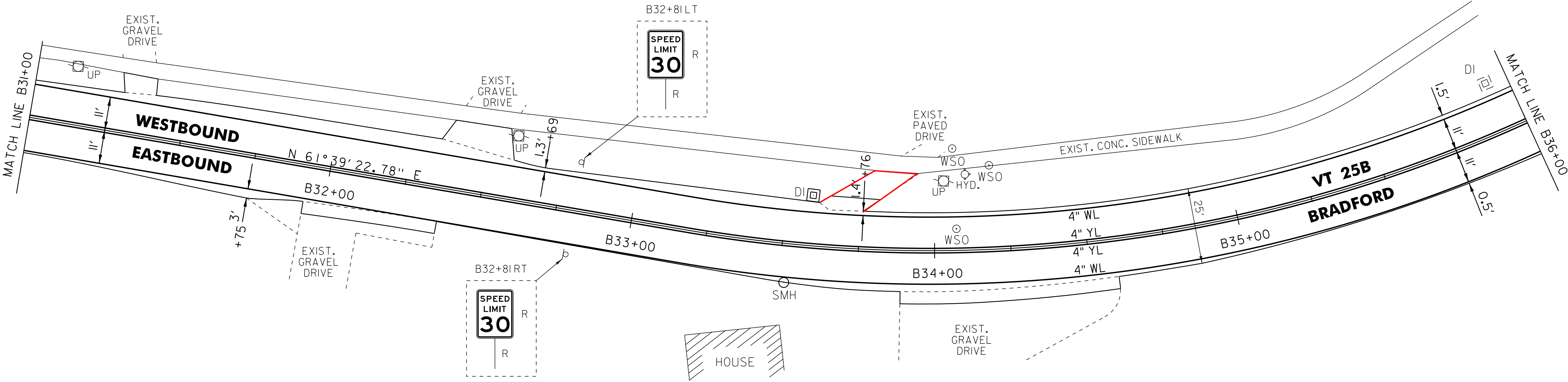
TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
B31+00 TO B36+00 SOLID LT & RT

REHAB. DROP
INLETS, CATCH BASINS, OR MANHOLES,
CLASS I OR CLASS II
B33+59 LT (DI)

CHANGING ELEVATION
OF SEWER MANHOLES (NON-PART.)
B33+52 RT

ADJUST ELEVATION OF
VALVE BOX (NON-PART.)
B34+07 LT

REMOVING SIGNS
AS SHOWN - 2



NOT TO SCALE

LEGEND	
R	= REMOVE EXISTING
S	= SALVAGED
R&S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
— —	= EXISTING GUARDRAIL
— — —	= PROPOSED GUARDRAIL
YL	= YELLOW LINE
WL	= WHITE LINE
—○—	= DELINEATOR
●	= PAVEMENT CORE

ROADWAY LAYOUT 7 VT 25B	
PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2918(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:51
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10C238_94	SHEET 94 OF 105

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE

B36+00 TO B38+50 SOLID LT
B36+00 TO B37+47 SOLID RT
B37+47 TO B37+57 SOLID RT (TH 71)
B37+89 TO B38+02 SOLID RT (TH 71)
B38+02 TO B38+41 SOLID RT
B38+41 TO B38+44 SOLID RT (TH 71)
B38+52 TO B39+60 SOLID RT (TH 71)
B39+30 TO B41+50 SOLID LT
B39+60 TO B41+50 SOLID RT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE

B36+00 TO B37+50 SOLID LT & RT
B37+69 TO B37+72 DOUBLE SOLID RT (TH 71)
B37+90 TO B38+70 SOLID LT & RT
B38+48 TO B38+92 DOUBLE SOLID RT (TH 71)
B39+10 TO B41+50 SOLID LT & RT

TEMPORARY 12 INCH WHITE LINE, PAINT
DURABLE 12 INCH WHITE LINE
B38+85 LT (2 LINES) (TH 65) (FOR X-WALK)

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR

B37+69 TO B37+82 RT (TH 71)
B38+93 TO B39+18 RT (TH 71)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL

B37+76 RT - "STOP" (TH 71)
B38+95 RT - "STOP" (TH 71)

REHAB. DROP
INLETS, CATCH BASINS, OR MANHOLES,
CLASS I OR CLASS II

B38+69 LT (DI)
B41+36 RT (DI)

CHANGING ELEVATION
OF SEWER MANHOLES (NON-PART.)

B36+06 RT
B38+90 LT
B39+20 RT

ADJUST ELEVATION OF
VALVE BOX (NON-PART.)
B37+65 RT (TH 71)

BITUMINOUS CONCRETE
GUTTERS AND TRAFFIC ISLANDS

B37+26 TO B38+72 LT
B37+38 TO B37+59 RT

DETECTABLE
WARNING SURFACE (DWS)

B38+77 LT
B38+93 LT

PORTLAND CEMENT
CONCRETE SIDEWALK, 5 INCH

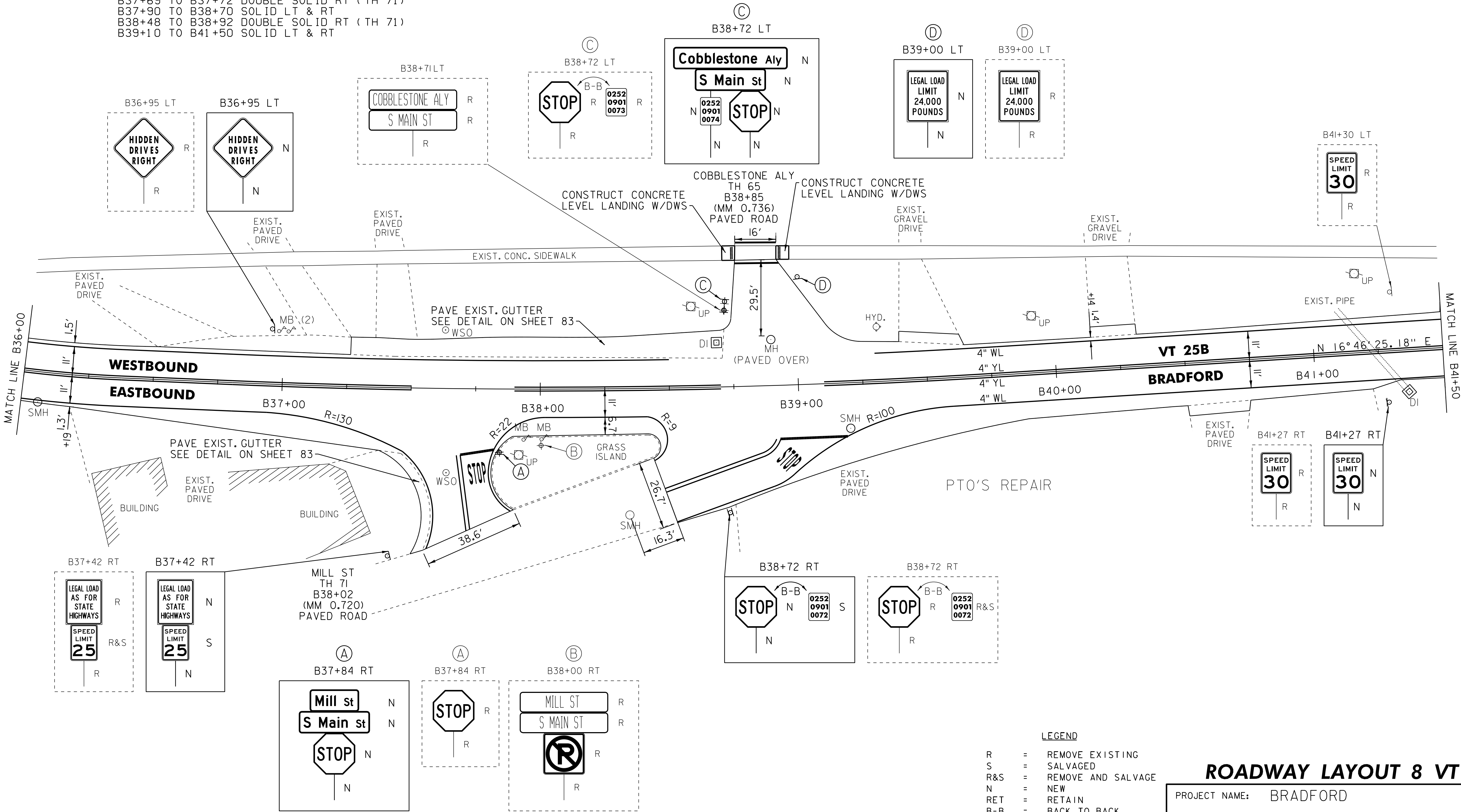
B38+72 TO B38+77 LT (LEVEL LANDING)
B38+93 TO B38+98 LT (LEVEL LANDING)

REMOVING SIGNS

AS SHOWN - 16

ERECTING SALVAGED SIGNS

AS SHOWN - 2



LEGEND

- R = REMOVE EXISTING
- S = SALVAGED
- R&S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = EXISTING GUARDRAIL
- = PROPOSED GUARDRAIL
- YL = YELLOW LINE
- = WHITE LINE
- = DELINEATOR
- = PAVEMENT CORE

ROADWAY LAYOUT 8 VT 25B

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2918(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10C238_95

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 95 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
B41+50 TO B47+00 SOLID RT
B41+50 TO B45+39 SOLID LT
B45+39 TO B45+70 SOLID LT (TH 6)
B46+00 TO B46+09 SOLID LT (TH 6)
B46+09 TO B47+00 SOLID LT

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
B41+50 TO B45+57 SOLID LT & RT
B45+80 TO B45+95 DOUBLE SOLID LT (TH 6)
B45+97 TO B47+00 SOLID LT & RT

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
B45+70 TO B45+80 LT (TH 6)

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
B44+16 RT - "STOP"
B44+56 RT - "AHEAD"
B45+81 LT - "STOP" (TH 6)

TEMPORARY CROSSWALK MARKING, PAINT
DURABLE CROSSWALK MARKING
B45+61 TO B46+02 LT (TH 6)

REHAB. DROP
INLETS, CATCH BASINS, OR MANHOLES,
CLASS I OR CLASS II
B45+52 LT (DI)
B45+98 LT (DI)
B46+85 RT (DI)
B46+86 LT (DI)

CHANGING ELEVATION
OF SEWER MANHOLES (NON-PART.)
B42+64 LT
B45+49 LT
B45+83 LT (TH 6)

ADJUST ELEVATION OF
VALVE BOX (NON-PART.)
B43+38 LT
B44+00 LT
B45+26 RT

THINNING AND TRIMMING FOR SIGNS
B44+36 RT

DETECTABLE
WARNING SURFACE (DWS)
B45+60 LT
B46+02 LT

PORTLAND CEMENT
CONCRETE SIDEWALK, 5 INCH
B45+55 TO B45+60 LT (LEVEL LANDING)
B46+02 TO B46+07 LT (LEVEL LANDING)

BITUMINOUS CONCRETE
GUTTERS AND TRAFFIC ISLANDS
B46+65 TO B47+00 RT

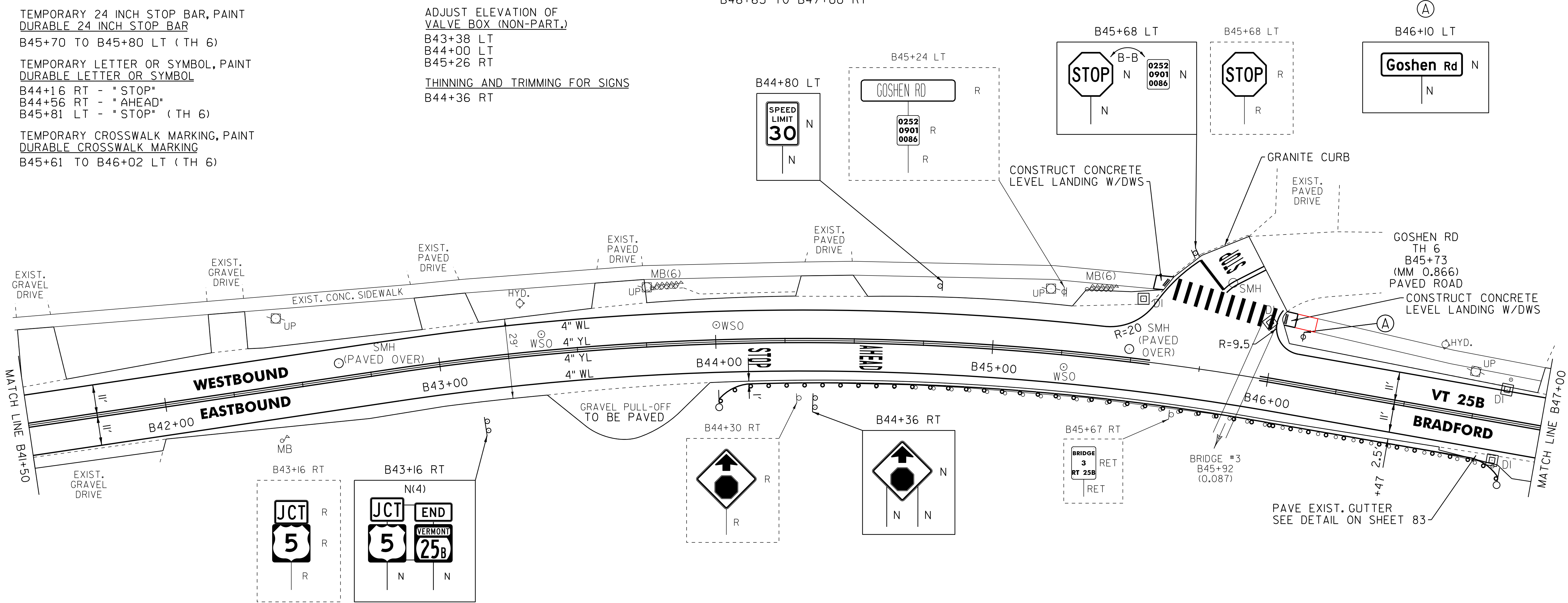
STEEL BEAM GUARDRAIL, GALVANIZED
B44+00.5 TO B46+88 RT

ANCHOR FOR STEEL BEAM RAIL
B44+00.5 RT
B46+88 RT

REMOVAL AND DISPOSAL OF GUARDRAIL
B43+96 TO B46+88 RT

DELINEATOR WITH STEEL POST
B44+00.5
B46+88

REMOVING SIGNS
AS SHOWN - 6



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - = PAVEMENT CORE

ROADWAY LAYOUT 9 VT 25B

PROJECT NAME: BRADFORD

PROJECT NUMBER: STP 2918(I)

FILE NAME: p10b236.dgn

PROJECT LEADER: PTS

DESIGNED BY: NLL

IPARM FILE NAME: p10C238_96

PLOT DATE: 03-SEP-2014 12:51

DRAWN BY: SNG

CHECKED BY: PTS

SHEET 96 OF 105

NOT TO SCALE

TEMPORARY 4 INCH WHITE LINE, PAINT
DURABLE 4 INCH WHITE LINE
B47+00 TO B48+40 SOLID LT
B47+00 TO B48+43 SOLID RT
B48+50 TO B51+59 SOLID LT
B48+52 TO B50+40 SOLID RT
B48+77 TO B48+90 SOLID RT (NO PARKING)
B48+90 TO B49+53 SOLID RT (PARKING)
B49+53 TO B49+68 SOLID RT (NO PARKING)

TEMPORARY 4 INCH YELLOW LINE, PAINT
DURABLE 4 INCH YELLOW LINE
B47+00 TO B48+42 SOLID LT & RT
B48+51 TO B50+41 SOLID LT & RT

TEMPORARY 24 INCH STOP BAR, PAINT
DURABLE 24 INCH STOP BAR
B50+41 RT (14')

TEMPORARY LETTER OR SYMBOL, PAINT
DURABLE LETTER OR SYMBOL
B50+32 RT - "STOP"

TEMPORARY CROSSWALK MARKING, PAINT
DURABLE CROSSWALK MARKING
B48+45 TO B48+48 LT TO RT

REHAB. DROP
INLETS, CATCH BASINS, OR MANHOLES,
CLASS I OR CLASS II
B48+02 RT (DI)
B48+38 LT (DI)
B48+40 RT (DI)
B49+51 RT (DI)
B50+30 RT (DI)
B51+28 LT (DOUBLE GRATE DI)

CHANGING ELEVATION
OF SEWER MANHOLES (NON-PART.)
B47+37 LT
B48+23 RT
B50+78 RT

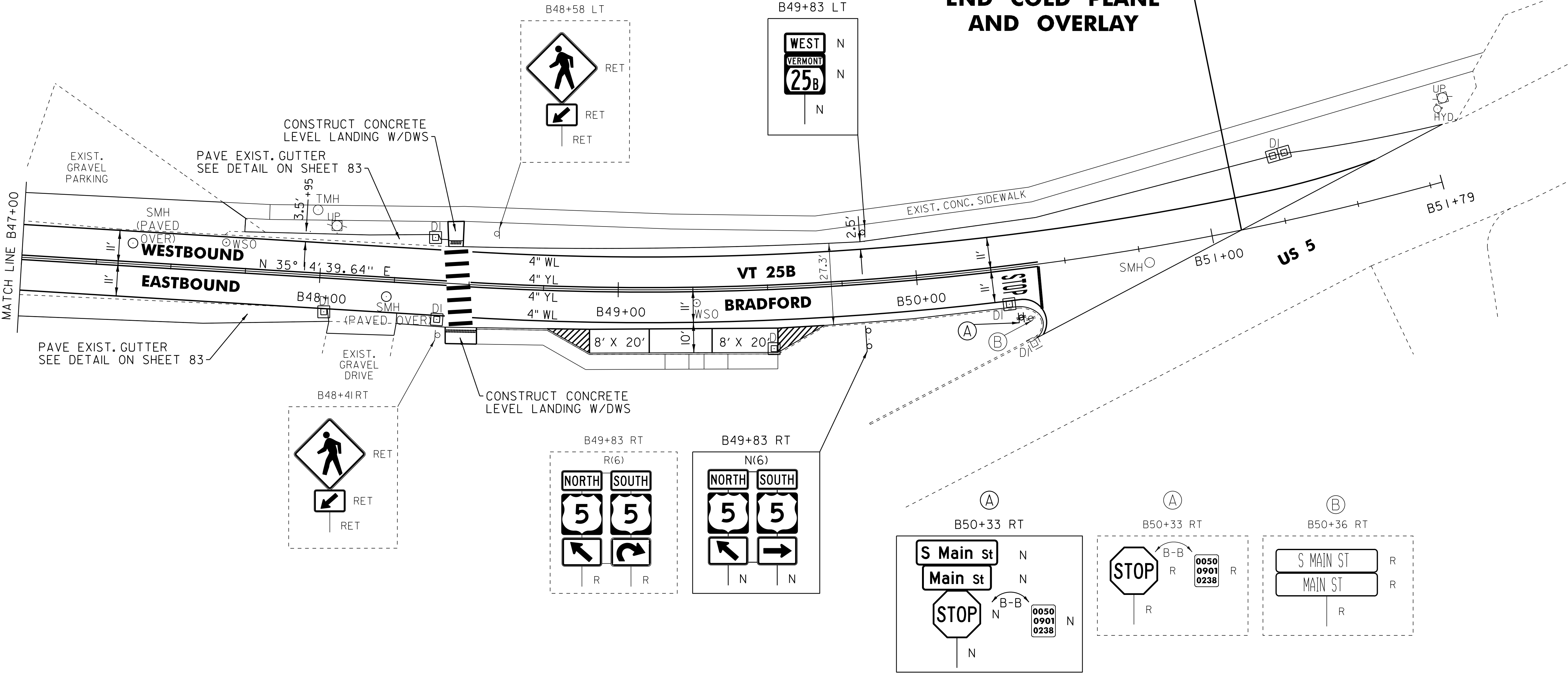
ADJUST ELEVATION OF
VALVE BOX (NON-PART.)
B47+68 LT
B49+26 RT
BITUMINOUS CONCRETE
GUTTERS AND TRAFFIC ISLANDS
B47+00 TO B48+04 RT
B47+68 TO B48+42 LT

DETECTABLE
WARNING SURFACE (DWS)

B48+45 LT
B48+48 RT
PORTLAND CEMENT
CONCRETE SIDEWALK, 5 INCH
B48+42 TO B48+47 LT (LEVEL LANDING)
B48+43 TO B48+53 RT (LEVEL LANDING)

REMOVING SIGNS
AS SHOWN - 10

VT 25B
B51+10.00
(MM 0.968)
END PROJECT
STP 2918(1)
END COLD PLANE
AND OVERLAY



- LEGEND**
- R = REMOVE EXISTING
 - S = SALVAGED
 - R&S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = EXISTING GUARDRAIL
 - = PROPOSED GUARDRAIL
 - YL = YELLOW LINE
 - WL = WHITE LINE
 - = DELINEATOR
 - = PAVEMENT CORE

ROADWAY LAYOUT 10 VT 25B

PROJECT NAME:	BRADFORD
PROJECT NUMBER:	STP 2918(1)
FILE NAME:	pl0b236.dgn
PROJECT LEADER:	PTS
DESIGNED BY:	NLL
IPARM FILE NAME:	pl0C238_97
PLOT DATE:	03-SEP-2014 12:51
DRAWN BY:	SNG
CHECKED BY:	PTS
SHEET	97 OF 105

NOT TO SCALE

TRAFFIC SIGN SUMMARY SHEET #1

TRAFFIC SIGN SUMMARY SHEET #1

[illegible]

TRAFFIC SIGN SUMMARY SHEET #2

[illegible]

TRAFFIC SIGN SUMMARY SHEET #3

[illegible]

TRAFFIC SIGN SUMMARY SHEET #4

TRAFFIC SIGN SUMMARY SHEET #4

[illegible]

TRAFFIC SIGN SUMMARY SHEET #5

[illegible]

TRAFFIC SIGN SUMMARY SHEET #6

TRAFFIC SIGN SUMMARY SHEET #6

FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:52
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10C238_103	SHEET 103 OF 105

GENERAL NOTES

SIGN DESIGN AND FABRICATION NOTES

- ALL SIGNS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST REVISION OF THE 2009 MUTCD, THE 2004 STANDARD HIGHWAY SIGNS AND MARKINGS (SHSM), AND THE 2012 SUPPLEMENT TO THE 2004 EDITION (SHSM) DETAILS AS AVAILABLE, VAOT STANDARDS OR AS DETAILED IN THE PLANS.
- ALL LETTERS AND NUMBERS USED FOR ALL SIGNS SHALL CONFORM TO THE APPLICABLE FONT AS DEFINED AND DETAILED IN THE 2004 SHSM AND THE 2012 SUPPLEMENT.
- ALL ARROWS AND SYMBOLS SHALL CONFORM WITH THE 2004 SHSM AND THE 2012 SUPPLEMENT UNLESS OTHERWISE DETAILED IN THE PLANS.
- COLORS USED ON ALL SIGNS SHALL CONFORM WITH THE REQUIREMENTS OF SECTION 1A.12 OF THE MUTCD.
- SIGN SHEETING FOR FLUORESCENT YELLOW AND FLUORESCENT YELLOW GREEN SHALL BE AASHTO M268 (ASTM D4956) TYPE VII, VIII OR IX. ALL OTHER SIGN SHEETING SHALL BE TYPE III OR IV.
- SHEETING TYPES AND MANUFACTURERS SHALL NOT BE MIXED ON A SINGLE SIGN ASSEMBLY. SHEETING COLOR/TYPE SHOULD BE BY THE SAME MANUFACTURER AND BE CONSISTENT THROUGHOUT THE PROJECT UNLESS OTHERWISE DETAILED ON THE PLANS.
- SIGN BASE MATERIAL FOR DELINEATORS AND MILE MARKER PLAQUES (VD-700) SHALL BE 0.063" THICK FLAT SHEET ALUMINUM. ALL TOWN HIGHWAY SIGNS (D3-I) SHALL BE 0.125" THICK FLAT SHEET ALUMINUM. UNLESS OTHERWISE NOTED ON THE PLANS, ALL OTHER SIGNS SHALL BE FLAT SHEET ALUMINUM WITH THE FOLLOWING MINIMUM THICKNESSES:

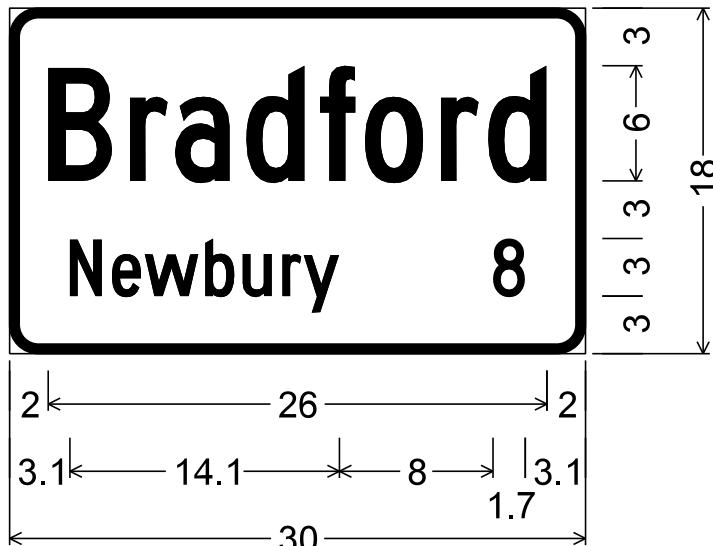
SIGN SIZE	12" X 12"		
	18" X 18"		
	21" X 15"		
	24" X 8"		
	24" X 10"		48" X 18"
	24" X 12"	36" X 12"	48" X 24"
	24" X 18"	36" X 15"	48" X 30"
	24" X 24"	36" X 18"	48" X 42"
	24" X 30"	36" X 24"	48" X 48"
	30" X 15"	36" X 36"	48" X 60"
	30" X 18"	36" X 42"	72" X 10"
	30" X 30"	36" X 48"	72" X 12"
	30" X 42"	36" X 54"	72" X 20"
THICKNESS	0.080"	0.100"	0.125"

SIGN POST NOTES

- ALL SIGN AND DELINEATOR POSTS SHALL BE INSTALLED IN A NEW ANCHOR. ALL SIGNS INSTALLED IN PAVED OR CONCRETE ISLANDS OR SIDEWALKS SHALL ALSO BE INSTALLED WITH AN 18" SLEEVE. PAYMENT FOR SLEEVE SHALL BE INCIDENTAL TO THE SIGN POST.
- 1.75" SQUARE STEEL POSTS SHALL BE 14 GAUGE STEEL. 2" AND 2.5" SQUARE STEEL POSTS SHALL BE 12 GAUGE STEEL.

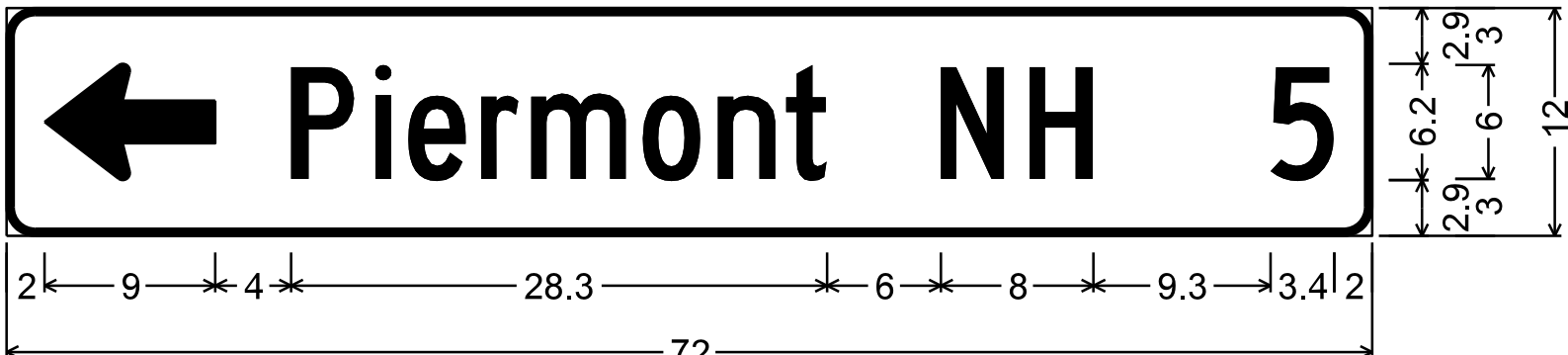
SIGN INSTALLATION NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY CAUSED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE.
- ALL SIGNS WITHIN THE PROJECT LIMITS ARE TO BE REPLACED UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE RESIDENT ENGINEER. SIGN LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED IN THE FIELD.
- ALL SIGN PLACEMENT SHALL BE IN CONFORMANCE WITH VAOT STANDARD E-121 STANDARD SIGN PLACEMENT CONVENTIONAL ROADS, UNLESS OTHERWISE NOTED.
- ALL SIGNS, FRAMES, MOUNTING HARDWARE, POSTS, AND ANCHORS FOR ANY SIGN ASSEMBLY SHALL BE REPLACED AT THE SAME TIME. MIXING OF OLD AND NEW SIGNS ON THE SAME ASSEMBLY WILL NOT BE ALLOWED EXCEPT AS NOTED ON THE PLANS.
- NEW SIGNS WITH THEIR GREATER NIGHTTIME REFLECTIVITY CAN OBSCURE OLDER SIGNS MOUNTED ADJACENT TO THEM. TO AVOID CONFUSION OF ROAD USERS, WORK SHALL BE COORDINATED SUCH THAT ALL SIGNS ASSOCIATED WITH A CURVE, INTERSECTION, OR SPEED CHANGE, SHALL BE REPLACED ON THE SAME DAY AND NOT LEFT INCOMPLETE OR WITH A MIXTURE OF OLD AND NEW SIGNS WITHIN A GROUP OF ASSOCIATED SIGNS.

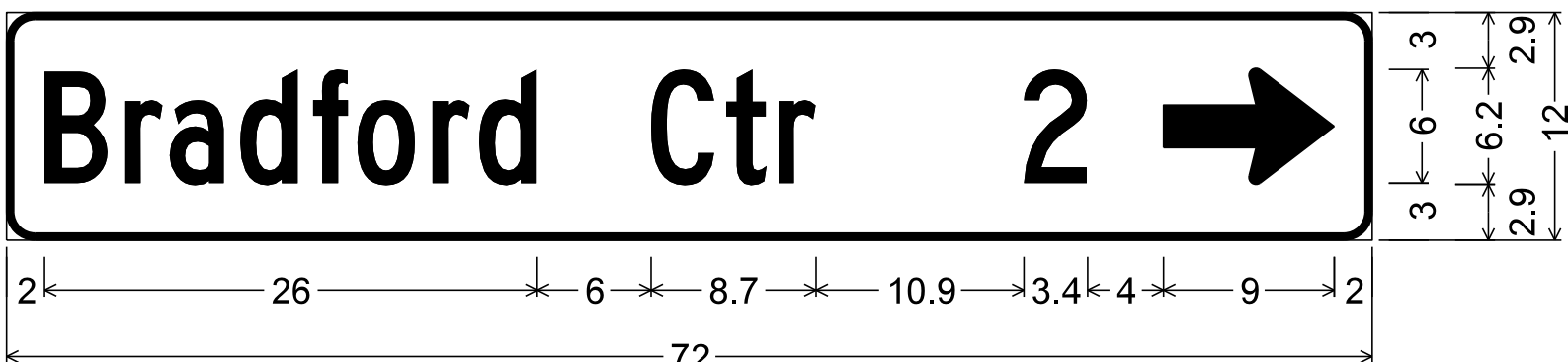


1.5" Radius, 0.5" Border, White on Green;
[Bradford] C 2K;
[Newbury 8] C 2K;

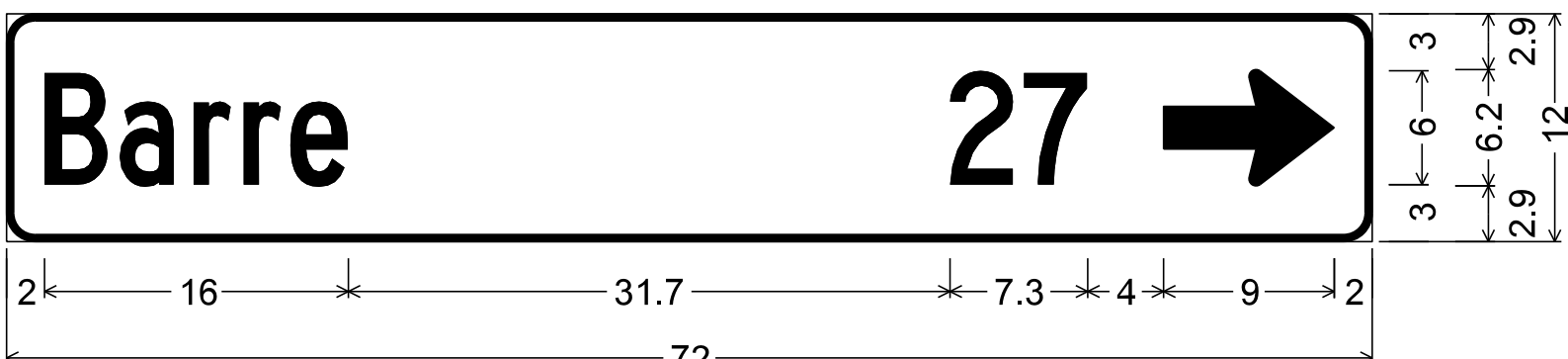
VD-018



1.5" Radius, 0.4" Border, White on Green;
Standard Arrow Custom 9.0" X 6.1" 180°; [Piermont NH] C 2K; [5] C 2K;



1.5" Radius, 0.4" Border, White on Green;
[Bradford Ctr] C 2K; [2] C 2K; Standard Arrow Custom 9.0" X 6.1" 0°;



1.5" Radius, 0.4" Border, White on Green;
[Barre] C 2K; [27] C 2K; Standard Arrow Custom 9.0" X 6.1" 0°;

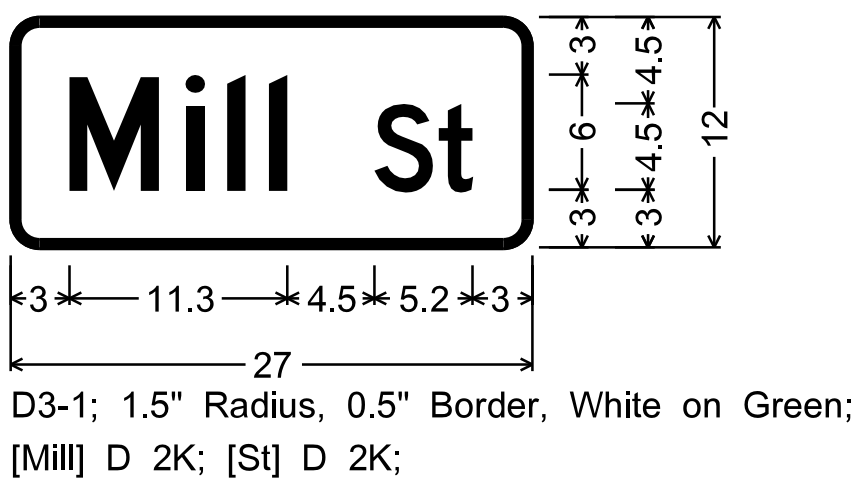
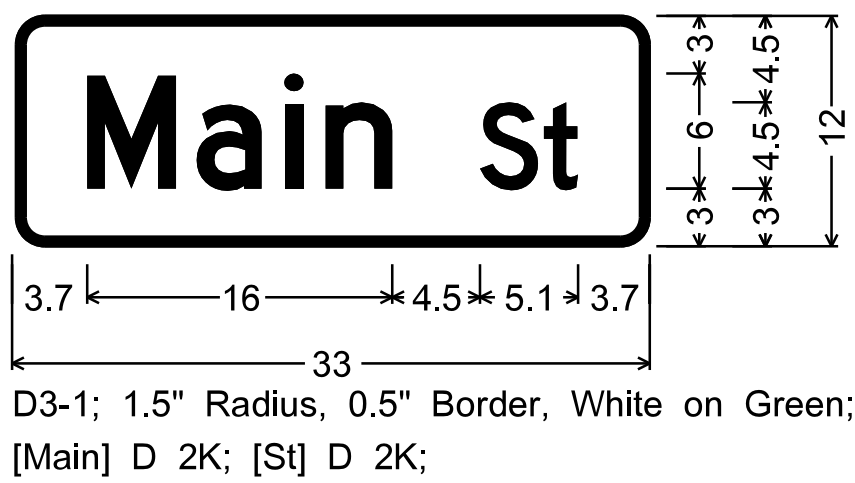
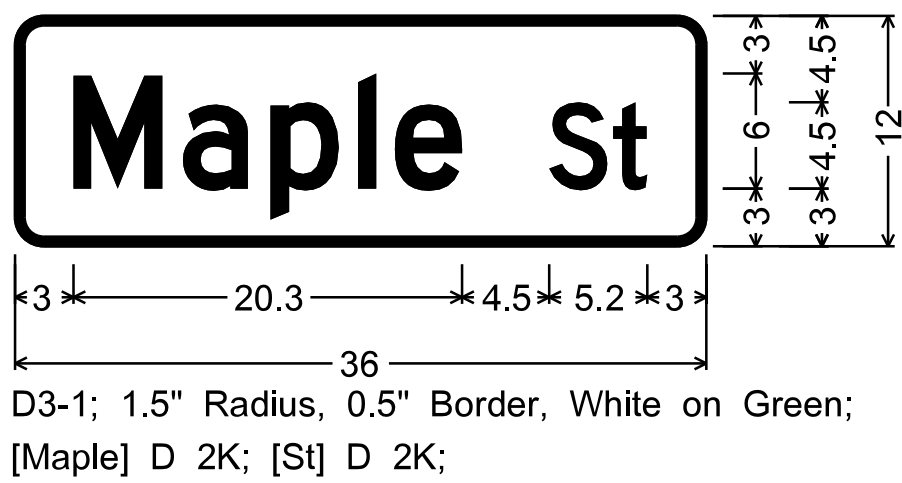
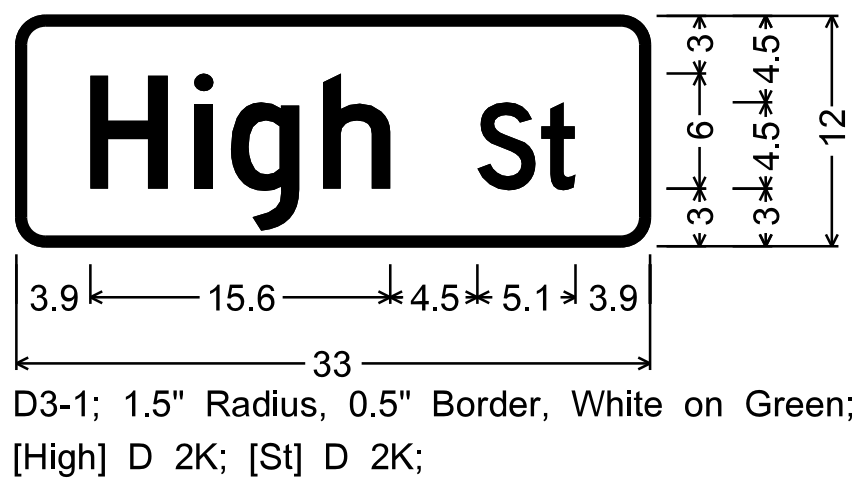
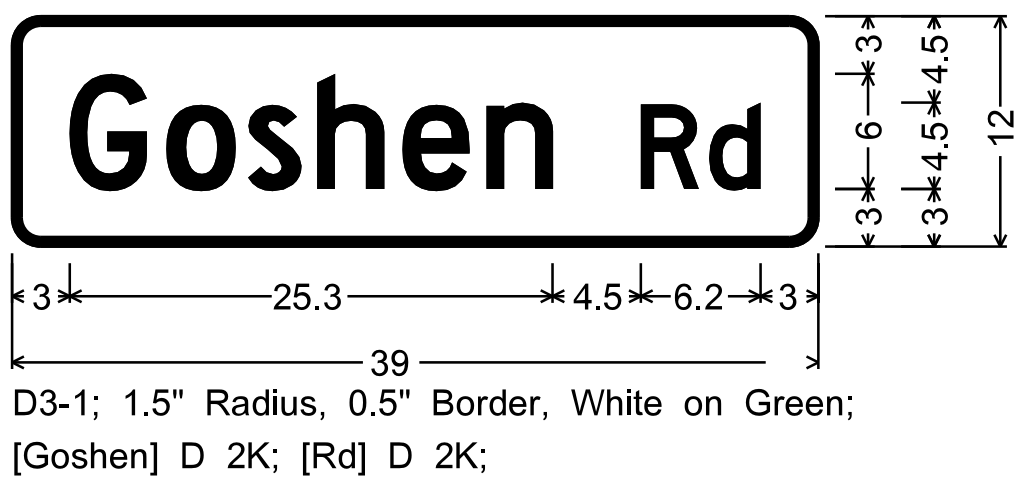
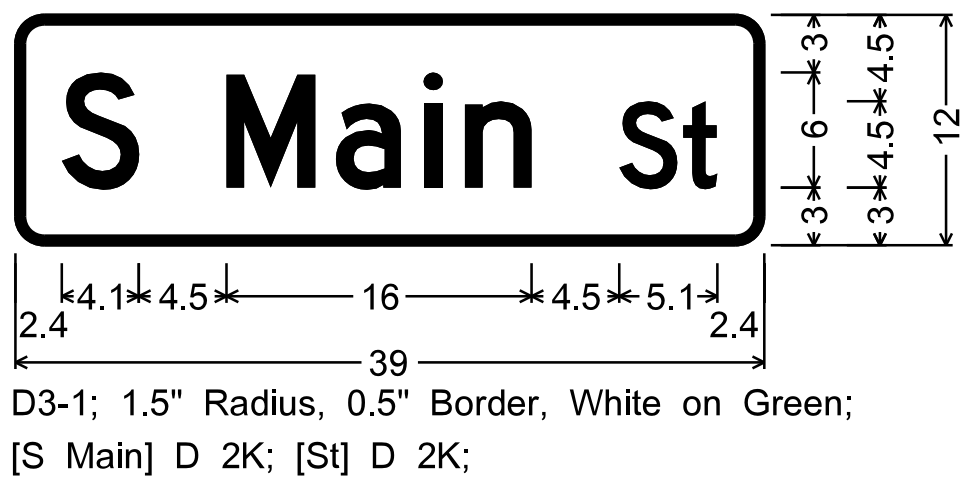
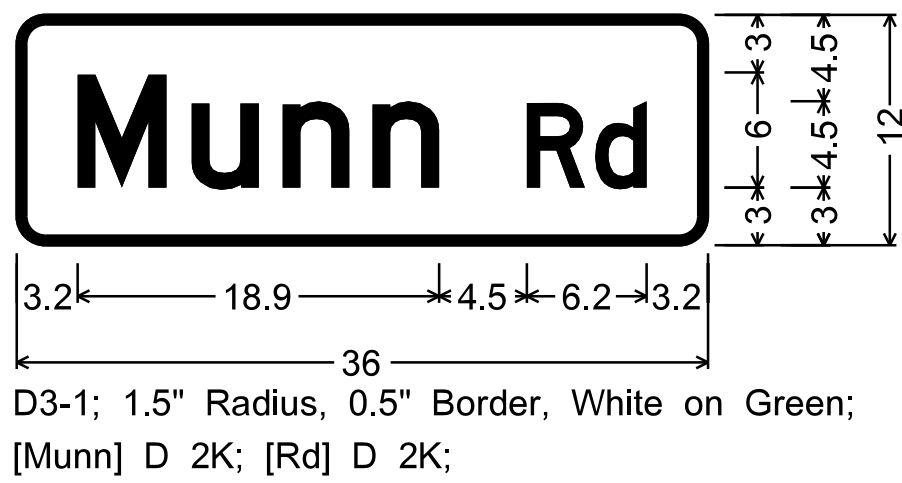
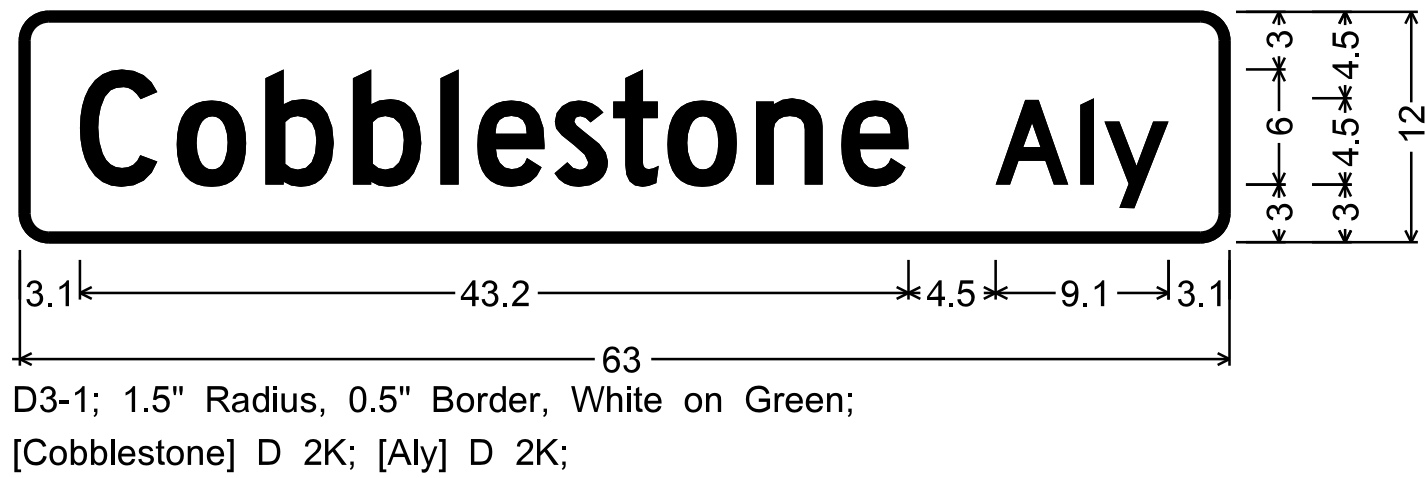
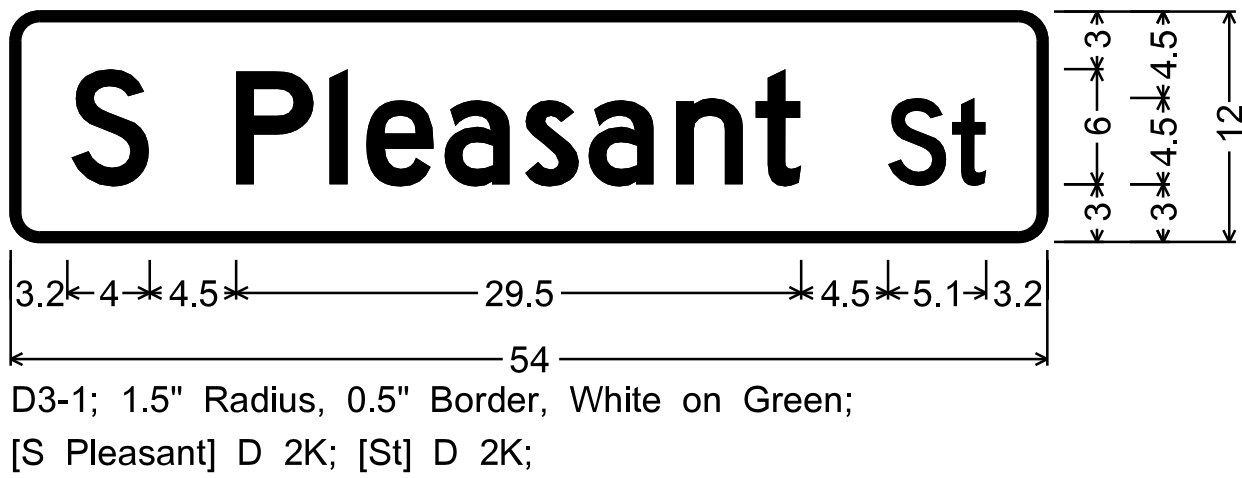
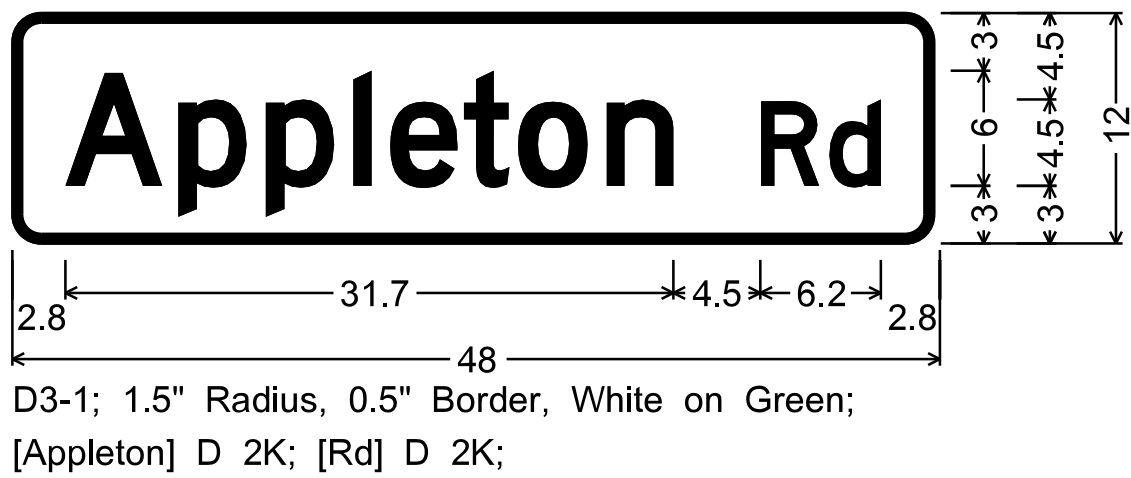
DESTINATION SIGN NOTES D1-1, D1-1A

THE DESTINATION SIGNS SHOWN ON THIS SHEET SHALL HAVE WHITE RETROREFLECTIVE ASTM TYPE III OR IV TEXT, ARROWS AND BORDERS ON A GREEN RETROREFLECTIVE ASTM TYPE III OR IV BACKGROUND

SIGN DETAIL SHEET 1

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2918(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:52
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NLL	CHECKED BY: PTS
IPARM FILE NAME: p10C238.i04	SHEET 104 OF 105

NOT TO SCALE



TOWN HIGHWAY SIGNS D3-1
TOWN HIGHWAY SIGNS SHALL BE INSTALLED ON 12 INCH BRACKETS

NOT TO SCALE

SIGN DETAIL SHEET 2

PROJECT NAME: BRADFORD	
PROJECT NUMBER: STP 2918(I)	
FILE NAME: p10b236.dgn	PLOT DATE: 03-SEP-2014 12:52
PROJECT LEADER: PTS	DRAWN BY: SNG
DESIGNED BY: NULL	CHECKED BY: PTS
IPARM FILE NAME: p10C238_105	SHEET 105 OF 105