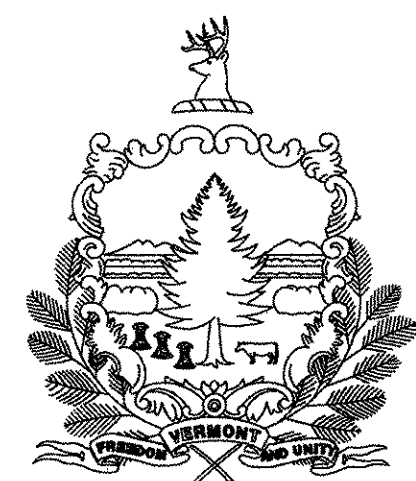
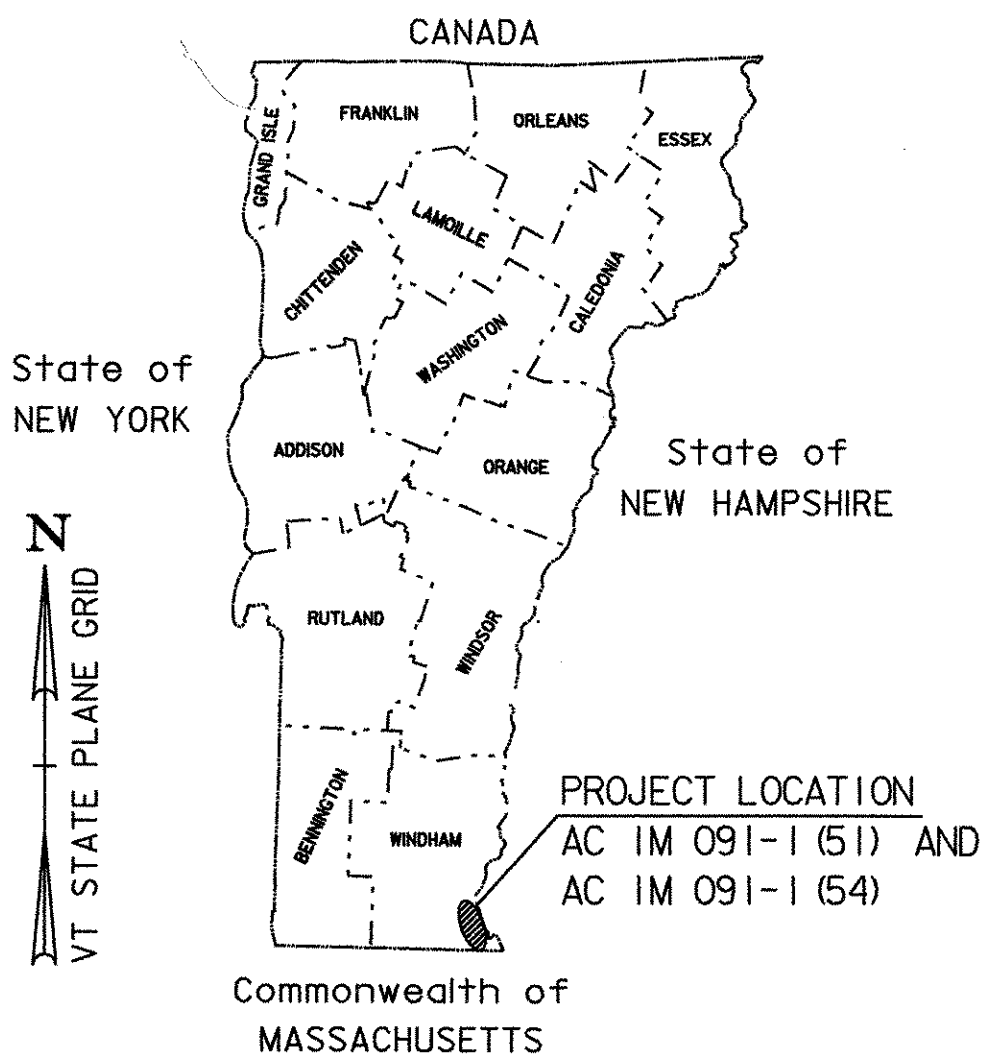


STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
TOWNS OF GUILFORD,
VERNON & BRATTLEBORO
COUNTY OF WINDHAM
INTERSTATE ROUTE 91 NB & 91 SB



INDEX OF SHEETS
SEE SHEET 2

RECORD PLANS

CONTRACTOR:	LANE CONSTRUCTION CORP. - MERIDAN, CT
RESIDENT ENGINEER:	BUTCH COLBY
CONSTRUCTION BEGAN:	JULY 17, 2006
CONSTRUCTION COMPLETE:	NOVEMBER 7, 2007
RECORD PLANS BY:	BUTCH COLBY & N. GARBACK

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

BY DATE 11/19/09

RESIDENT ENGINEER

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.

GUILFORD-BRATTLEBORO AC IM 091-K(5) (SEE SHEET 9 FOR FURTHER INFORMATION)

BEGINNING IN GUILFORD ON I-91 AT THE MASSACHUSETTS STATE LINE AT STATION 0+00 (MM 0.000) AND EXTENDING NORTHERLY A DISTANCE OF 62,916.48 FEET (11.916 MILES) TO STATION 629+16.48 (MM 11.916) IN THE TOWN OF BRATTLEBORO

PROJECT DATA
FROM STA 0+00.00 (MM 0.000) TO STA 629+16.48 (MM 11.916)
LENGTH OF ROADWAY = 11.916 MILES (62,916.48 FEET)
LENGTH OF PROJECT = 11.916 MILES (62,916.48 FEET)

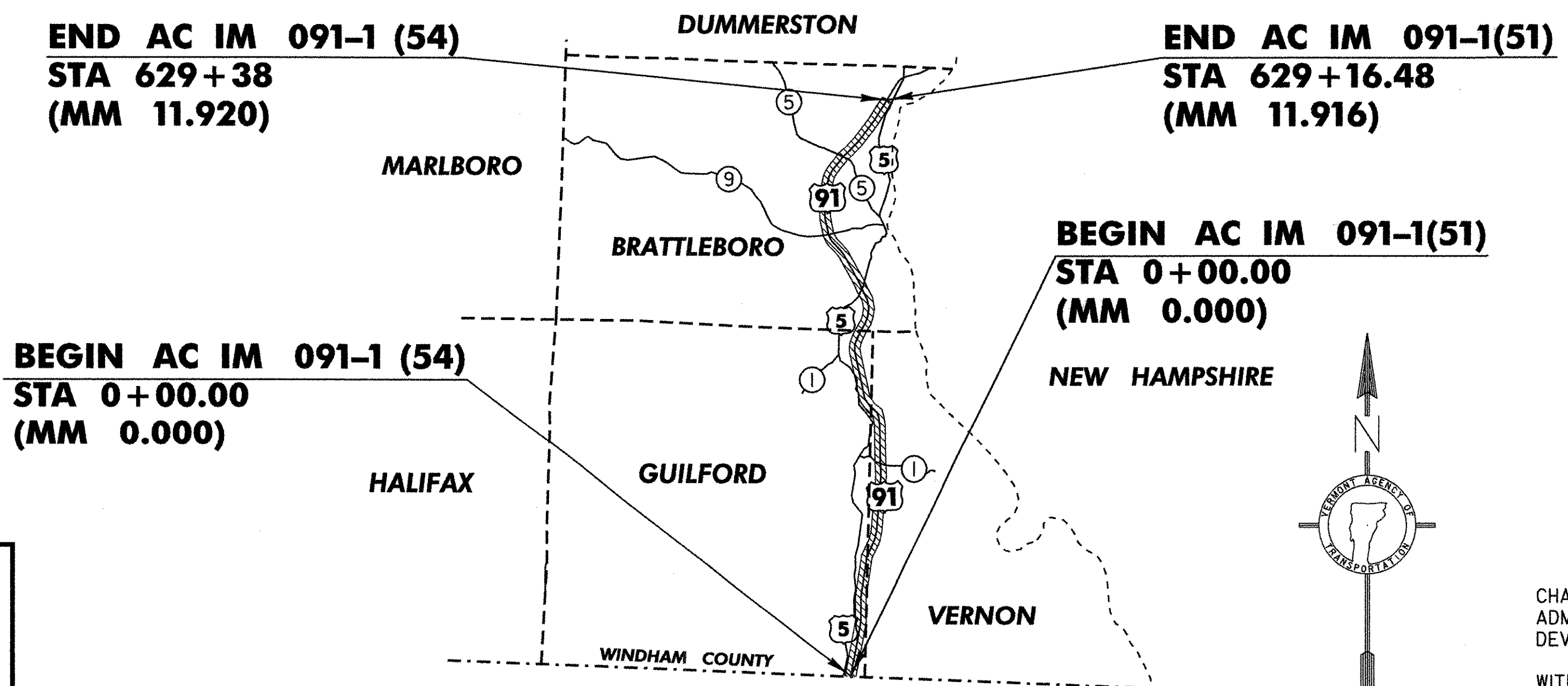
WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE NORTHBOUND LANES, NORTHBOUND INTERCHANGE RAMPS AND MAINTENANCE U-TURNS WITH A WEARING COURSE, NEW PAVEMENT MARKINGS, GUARDRAIL, SIGNS, AND INCIDENTAL ITEMS AS SHOWN IN THE PROJECT QUANTITIES.

GUILFORD-BRATTLEBORO AC IM 091-K(54) (SEE SHEET 35 FOR FURTHER INFORMATION)

BEGINNING IN GUILFORD ON I-91 AT THE MASSACHUSETTS STATE LINE AT STATION 0+00 (MM 0.000) AND EXTENDING NORTHERLY ALONG THE SOUTHBOUND LANES A DISTANCE OF 62,938 FEET (11.920 MILES) TO STATION 629+38 (MM 11.920) IN THE TOWN OF BRATTLEBORO.

PROJECT DATA
FROM STA 0+00 (MM 0.000) TO STA 629+38 (MM 11.920)
LENGTH OF ROADWAY = 11.920 MILES (62,938 FEET)
LENGTH OF PROJECT = 11.920 MILES (62,938 FEET)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE SOUTHBOUND LANES AND SOUTHBOUND INTERCHANGE RAMPS AND EMERGENCY ON RAMP WITH A WEARING COURSE, NEW PAVEMENT MARKINGS, GUARDRAIL, SIGNS, AND INCIDENTAL ITEMS AS SHOWN IN THE PROJECT QUANTITIES.



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

DATUM
VERTICAL N/A
HORIZONTAL N/A



IMPERIAL PLANS
PREPARED BY:

UNLESS OTHERWISE NOTED, ALL DRAWINGS AND DETAILS OF THE PROJECT PLANS ARE 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 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATOR	
APPROVED	DATE 5-16-06
DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED	DATE 4/26/06
PROJECT MANAGER: MARK WOOLAVER	
PROJECT NAME : GUILFORD-BRATTLEBORO	
PROJECT NUMBER : AC IM 091-1 (51)	
AC IM 091-1 (54)	
SHEET 1 OF 69 SHEETS	

INDEX OF SHEETS		STANDARDS	
1	COMPOSITE TITLE SHEET	C-1	VERTICAL GRANITE CURB
2	COMPOSITE INDEX SHEETS	D-6	REINFORCED CONCRETE DROP INLET W/ GRATE (DITCHES)
3-4	COMPOSITE QUANTITY SHEETS	D-9	REINFORCED CONCRETE DROP INLET TOPS, VERTICAL CURB
5	COMPOSITE TYPICAL PAVEMENT MARKINGS SHEET	D-10	REINFORCED CONCRETE DROP INLET TOPS, BITUMINOUS CONCRETE CURB & GRANITE SLOPE EDGING
6	COMPOSITE ACCEL/ DECEL LANE WIDENING DETAILS SHEET	D-15	CAST IRON GRATE WITH FRAME, TYPE D
7-8	COMPOSITE MILLED RUMBLE STRIP DETAIL SHEETS	E-100	CONSTRUCTION APPROACH SIGNS
ROUTE 91 NB AC IM 091-1(51)		E-100A	SIDE ROAD CONSTRUCTION - APPROACH SIGNS
9	TITLE SHEET	E-101	CONSTRUCTION APPROACH SIGNS
10-13	PROJECT TYPICALS SHEETS	E-102	CONSTRUCTION APPROACH SIGNS
14-15	QUANTITY SUMMARY SHEETS	E-102A	CONSTRUCTION APPROACH SIGNS
16-18	ITEM DETAIL SHEETS	E-103	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED
19-20	PAVING PROJECT LAYOUT SHEETS	E-105	TRAFFIC CONTROL FOR CONSTRUCTION VEHICLE U-TURNS ON DIVIDED HIGHWAY
21-27	RAMP DETAIL SHEETS	E-106	TRAFFIC CONTROL - MISCELLANEOUS DETAILS
28-29	WEIGH STATION/WELCOME CENTER DETAIL SHEETS	E-107	DELINEATION, BARRICADES AND DETOURS FOR U-TURNS ON DIVIDED HIGHWAY
30	SIGN SECTION/DETAIL SHEET	E-107A	BREAKAWAY BARRICADE DETAIL
31-33	TRAFFIC SIGN SUMMARY SHEET	E-108	CONSTRUCTION ZONE LONGITUDINAL DROPOFFS
34	CONSTRUCTION APPROACH SIGNING SHEETS	E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE
ROUTE 91 SB AC IM 091-1(54)		E-111	MINOR MAINTENANCE OPERATION
35	TITLE SHEET	E-120	STANDARD SIGN PLACEMENT - EXPRESSWAY & FREEWAY
36-39	PROJECT TYPICAL SHEETS	E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD
40-41	QUANTITY SUMMARY SHEETS	E-123	GUIDE SIGN PLACEMENT - MISCELLANEOUS
42-44	ITEM DETAIL SHEETS	E-133	SERVICE SIGN DETAIL
45-46	PAVING PROJECT LAYOUT SHEETS	E-139	MILEMARKER DETAILS - INTERSTATE
47-63	RAMP DETAIL SHEETS	E-141	REGULATORY SIGN DETAILS
64	WEIGH STATION DETAIL SHEET	E-142	REGULATORY SIGN DETAILS
65-68	TRAFFIC SIGN SUMMARY SHEETS	E-143	REGULATORY SIGN DETAILS
69	CONSTRUCTION APPROACH SIGNING SHEET	E-144	REGULATORY SIGN DETAILS
		E-146	REGULATORY SIGN DETAILS
		E-150	WARNING SIGN DETAILS
		E-151	WARNING SIGN DETAIL
		E-152	WARNING SIGN DETAILS
		E-160	FLANGED CHANNEL STEEL SIGN POST
		E-163	TUBULAR STEEL SIGN POST
		E-164	SQUARE STEEL SIGN POST
		E-191	PAVEMENT MARKING DETAILS
		E-192	PAVEMENT MARKING DETAILS
		E-193	PAVEMENT MARKING DETAILS
		E-197	DELINEATOR PLACEMENT TYPICAL
		E-198	DELINEATORS AND MILEPOSTS
		E-199	DELINEATOR AND MILEPOST MOUNTING ON BRIDGE RAIL
		G-1	STEEL BEAM GUARDRAIL (50 MPH OR OVER) HEAVY DUTY STEEL BEAM GUARDRAIL ANCHOR FOR STEEL RAIL
		G-1D	STEEL BEAM GUARDRAIL (40 MPH OR LESS) HEAVY DUTY STEEL BEAM GUARDRAIL ANCHOR FOR STEEL BEAM RAIL
		G-19	GENERIC GRADING PLANS FOR GUARDRAIL END TERMINALS
		SB-R6-82	BRIDGE RAILING - HEAVY DUTY STEEL BEAM
		ESFM	DETAILS FOR USE WHEN ERECTING SNOW FENCE IN CONJUNCTION WITH 2 OR 3 RAIL ALUMINUM RAIL
		PSF-1M	INSTALLATION OF PERMANENT SNOW FENCE ON BRIDGES WITH 2-RAIL ALUMINUM BRIDGE RAIL
		PSF-2M	INSTALLATION OF PERMANENT SNOW FENCE ON BRIDGES WITH BOX BEAM RAIL
		PSF-3M	INSTALLATION OF PERMANENT SNOW FENCE ON BRIDGES WITH 3-RAIL ALUMINUM BRIDGE RAIL
DATUM VERTICAL HORIZONTAL		* METRIC STANDARDS - NO ENGLISH VERSION AVAILABLE COMPOSITE INDEX OF SHEETS PROJECT NAME: GUILFORD-BRATTLEBORO PROJECT NUMBER: AC IM 091-1(51) /AC IM 091-1(54) FILE NAME: 05A014cInd.1 PLOT DATE: 22-JAN-2009 13:3 PROJECT LEADER: CRB DRAWN BY: MRS DESIGNED BY: CLD CHECKED BY: NLL CLD REF. NO. 05-0387 SHEET 2 OF 69	

COMPOSITE QUANTITY SHEET #1												STATE OF VERMONT AGENCY OF TRANSPORTATION					
SUMMARY OF ESTIMATED QUANTITIES												DETAILED SUMMARY OF QUANTITIES					
GUILFORD-BRATTLEBORO AC IM 091-1(51)				GUILFORD-BRATTLEBORO AC IM 091-1(54)			QUANTITIES	UNIT	ITEMS	ITEM NO.		QUANTITIES	UNIT	ITEMS			
FULL C.E.	BRIDGE	ROADWAY	TRAINEESHIP	FULL C.E.	BRIDGE	ROADWAY	GRAND TOTAL										
		I				0	I	EA	THINNING AND TRIMMING (FOR SIGNS)	201.31							
		345				720	1065	CY	COMMON EXCAVATION	203.15							
		970				655	1625	CY	EARTH BORROW	203.30							
		26000				20080	46080	LF	SHOULDER BERM REMOVAL	203.99							
		0.5				0.5	I	CY	TRENCH EXCAVATION OF EARTH (N.A.B.I)	204.20							
		288370				295520	583890	SY	COLD PLANING-BIT.PAVEMENT	210.10							
		105360				96800	202160	LF	MILLED RUMBLE STRIPS	213.10							
		5040				5730	10770	TON	AGGREGATE SHOULDERS (MOD.)	402.12							
		640				670	1310	CWT	EMULSIFIED ASPHALT	404.65							
		0.5				0.5	I	LU	PRICE ADJUSTMENT ASPHALT CEMENT (N.A.B.I.)	406.50							
		36590				34910	71500	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 64-28)	490.30							
	930				1050		1980	LF	BRIDGE EXPANSION JOINT (ASPHALTIC PLUG)	516.10							
	100				100		200	CF	RAPID SETTING CONCRETE REPAIR MATERIAL W/COARSE AGGREGATE	580.20							
		6				7	13	EACH	CHANGING ELEV. OF DROP INLETS, CATCH BASINS OR MANHOLES	604.40							
		10				21	31	EACH	REHABING DI,CB OR MH CLASS I	604.412							
		2				2	4	EACH	REHABING DI,CB OR MH CLASS II	604.415							
		2				2	4	EACH	REHABING DI,CB OR MH CLASS III	604.418							
		410				475	885	HR	POWER GRADER RENTAL	608.15							
		50				50	100	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25							
		330				340	670	HR	POWER BROOM RENTAL,TYPE II	608.31							
		50				50	100	HR	TRUCK RENTAL	608.37							
		275				0	275	LF	REMOVING AND RESETTING CURB	616.40							
		0				300	300	LF	REMOVAL OF EXISTING CURB	616.41							
		10				3	13	TON	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47							
	400				400		800	LF	SNOW BARRIER - GALVANIZED	620.75							
		4660				6200	10860	LF	STEEL BEAM GUARD RAIL (GALVANIZED)	621.20							
		1310				2285	3595	LF	STEEL BEAM GUARD RAIL (GALVANIZED)(MOD. - 8' POSTS)	621.20							
		0				280	280	LF	HEAVY DUTY STEEL BEAM GUARD RAIL (GALVANIZED)	621.21							
		12				8	20	EACH	MANUFACTURED TERMINAL SECTION (FLARED)	621.505							
		25				17	42	EACH	TRAILING END TERMINAL	621.52							
		0				1	1	EACH	ANCHOR FOR STEEL BEAM RAIL	621.60							
		230				185	415	EACH	REPLACE GUARD RAIL POST ASSEMBLY	621.76							
		340				275	615	EACH	REPLACE GUARD RAIL BEAM UNIT	621.77							
		3990				8970	12960	LF	REMOVL AND DISP OF GUARD RAIL	621.80							
		3050				2910	5960	HR	UNIFORMED TRAFFIC OFFICERS	630.10							
		3050				2910	5960	HR	FLAGGERS	630.15							
0.5				0.5			I	LS	FIELD OFFICE-ENGINEERS	631.10							
0.5				0.5			I	LS	TESTING EQUIPMENT - CONCRETE	631.16							
DETAILED SUMMARY OF QUANTITIES												DETAILED SUMMARY OF QUANTITIES					
QUANTITIES	UNIT	ITEMS										QUANTITIES	UNIT	ITEMS			

COMPOSITE QUANTITY SHEET #2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

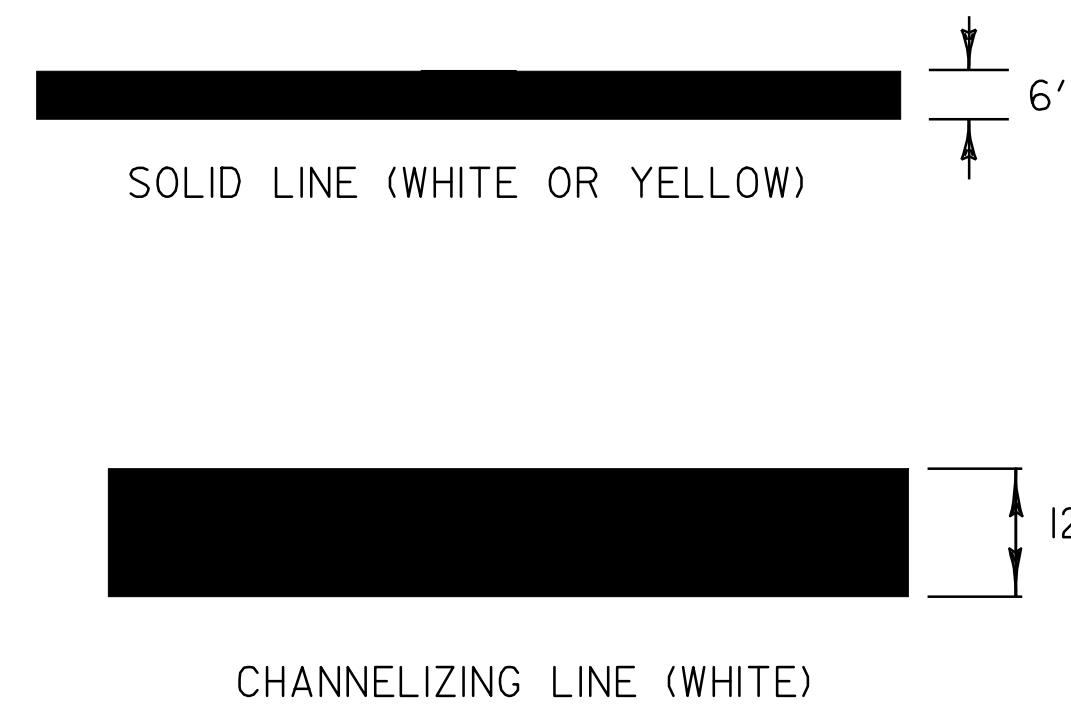
SUMMARY OF ESTIMATED QUANTITIES											
GUILFORD-BRATTLEBORO AC IM 091-1(51)				BRATTLEBORO-GUILFORD AC IM 091-1(54)			QUANTITIES	UNIT	ITEMS	ITEM NO.	
FULL C.E.	BRIDGE	ROADWAY	TRAINEESHIP	FULL C.E.	BRIDGE	ROADWAY	GRAND TOTAL				
0.5				0.5			I	LS	TESTING EQUIPMENT - BITUMINOUS	63I.I7	
0.5				0.5			I	LU	FIELD OFFICE - TELEPHONE (N.A.B.I.)	63I.25	
			520				520	HR	EMPLOYEE TRAINEESHIP	634.I0	
		0.5				0.5	I	LS	MOBILIZATION / DEMOBILIZATION	635.II	
		0.5				0.5	I	LS	TRAFFIC CONTROL	64I.I0	
		4				4	8	EACH	PORTABLE CHANGEABLE MESSAGE SIGN	64I.I5	
		88I50				925I0	I80660	LF	DURABLE 6" WHITE LINE (MOD.-RETROREFLECTIVITY/INLAID)	646.4I4	
		7IIIO				75270	I46380	LF	DURABLE 6" YELLOW LINE (MOD.-RETROREFLECTIVITY/INLAID)	646.4I5	
		3245				I920	5I65	LF	DURABLE I2" WHITE LINE (MOD.-RETROREFLECTIVITY/INLAID)	646.44	
		50				55	I05	LF	DURABLE 24" STOP BAR (THERMOPLASTIC)	646.46	
		4I				67	I08	EACH	DURABLE LETTER OR SYMBOL (THERMOPLASTIC)	646.50	
		88I50				925I0	I80660	LF	TEMPORARY 6" WHITE LINE (PAINT)	646.6I4	
		7IIIO				75270	I46380	LF	TEMPORARY 6" YELLOW LINE (PAINT)	646.6I5	
		3245				I920	5I65	LF	TEMPORARY I2" WHITE LINE (PAINT)	646.64	
		50				55	I05	LF	TEMPORARY 24" STOP BAR (PAINT)	646.66	
		4I				67	I08	EACH	TEMPORARY LETTERS OR SYMBOLS (PAINT)	646.70	
		5255				5640	I0895	EACH	LINE STRIPING TARGETS	646.76	
		360				275	635	LF	PAINTED CURB	646.8I	
		35				35	70	LB	SEED	65I.I5	
		255				255	5I0	LB	FERTILIZER	65I.I8	
		I				I	2	TON	AGRICULTURAL LIMESTONE	65I.20	
		I				I	2	TON	HAY MULCH	65I.25	
		25				25	50	CY	TOPSOIL	65I.35	
		340				408	748	SF	TRAFFIC SIGNS, TYPE A	675.20	
		60				0	60	SF	TRAFFIC SIGNS, TYPE B	675.2I	
									BEGIN OPTION AA		
		9I0				I045	I955	LF	FLANGED CHANNEL SIGN POST	675.30I	
		9I0				I045	I955	LF	SQUARE TUBE SIGN POSTS AND ANCHOR	675.34I	
									END OPTION AA		
		3I5				0	3I5	LB	TUBULAR STEEL SIGN POSTS	675.33	
		2				0	2	EACH	FOUNDATION FOR TUBULAR STEEL POSTS	675.43	
		63				77	I40	EACH	REMOVING SIGNS	675.50	
		I				2	3	EACH	ERECTING SALVAGED SIGNS	675.60	
		655				675	I330	EACH	DELINEATORS W/STEEL POSTS	676.I0	
		655				675	I330	EACH	REMOVAL OF EXIST DELINEATORS	676.I2	
		0.5				0.5	I	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	

[illegible][illegible]

STATIONS		PAVEMENT WIDTHS			EQUATIONS		FEET	MILES	REMARKS
FROM	TO				+	-			
TOTALS									

22- JAN-2009 13: 37 05A014cqqs2; i	PROJECT NAME GUILFORD - BRATTLEBORO PROJECT NUMBER AC IM 091-1(51) / AC IM 091-1(54)	SHEET 4 OF 69 SHEETS
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DOTTED LINE (WHITE) *



The diagram shows a roof truss with four truss units. Each unit has a top chord of 24 feet and a height of 36 feet. The units are separated by 12-foot gaps. The total length of the roof is 108 feet.

TO BE INSTALLED ONLY AT THE
DIRECTION OF THE RESIDENT ENGINEER
TO BE PAID AS ONE LETTER OR SYMBOL
PER TRIANGLE



Technical drawing of an arrowhead detail and a full arrow. The arrowhead detail shows a width of 4'-6" and a height of 10'-0". The full arrow shows a total height of 23'-6" and a base width of 1'-0".

NOT TO SCALE

The diagram illustrates the cross-section of a two-lane road with a centerline. The left side is labeled "WEST OR SOUTHBOUND" with a downward arrow, and the right side is labeled "EAST OR NORTHBOUND" with an upward arrow. The centerline is a dashed line. The lane widths are 12FT for each direction. The shoulder widths are 10FT on the outside and 4FT on the inside. The total width of the road is 40FT. The diagram also shows the placement of a 6" white line (dashed) and a 6" solid white line, with a 30 FT (TYP.) distance between them. The shoulder is labeled "SHOULDER".

 6" WHITE LINES
 6" YELLOW LINES
 DIRECTION OF TRAFFIC FLOW

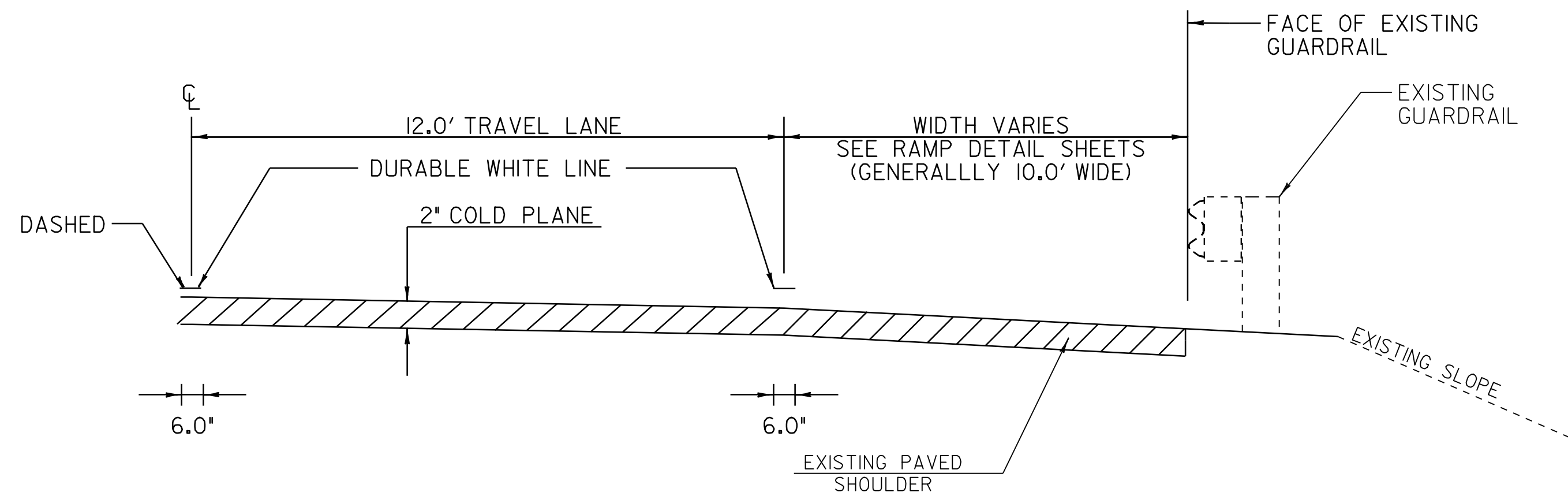
COMPOSITE TYPICAL PAVEMENT MARKINGS

PROJECT NAME: GUILFORD-BRATTLEBORO	
PROJECT NUMBER: AC IM 091-I(51)/ AC IM 091-I(54)	
FILE NAME: 05A014cpmd.1	PLOT DATE: 22-JAN-2009 13:
PROJECT LEADER: CRB	DRAWN BY: MRS
DESIGNED BY: CLD	CHECKED BY: NLL
CLD REF. NO. 05-0387	SHEET 5 OF 69

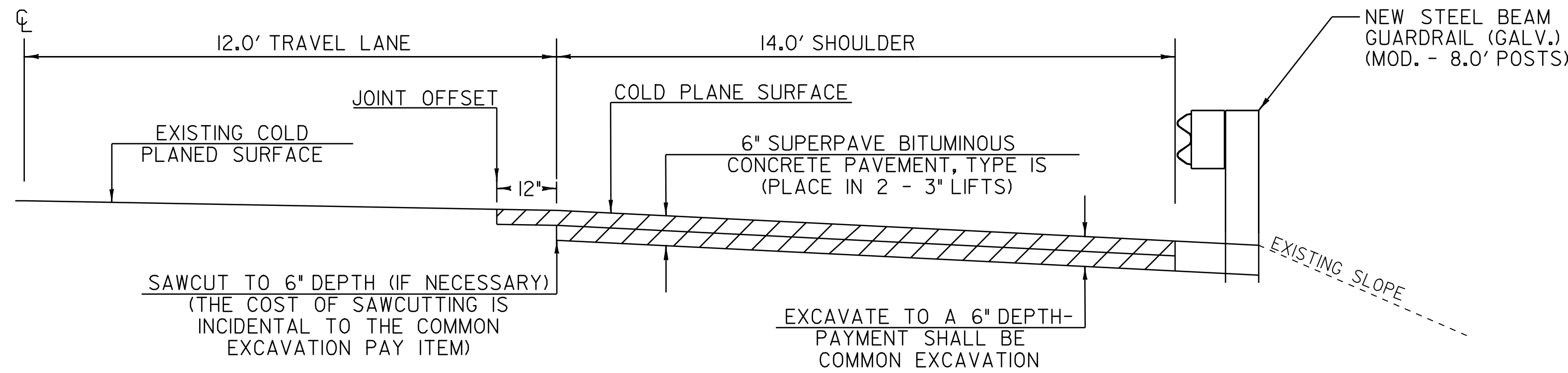
DATUM _____

VERTICAL _____

HORIZONTAL _____



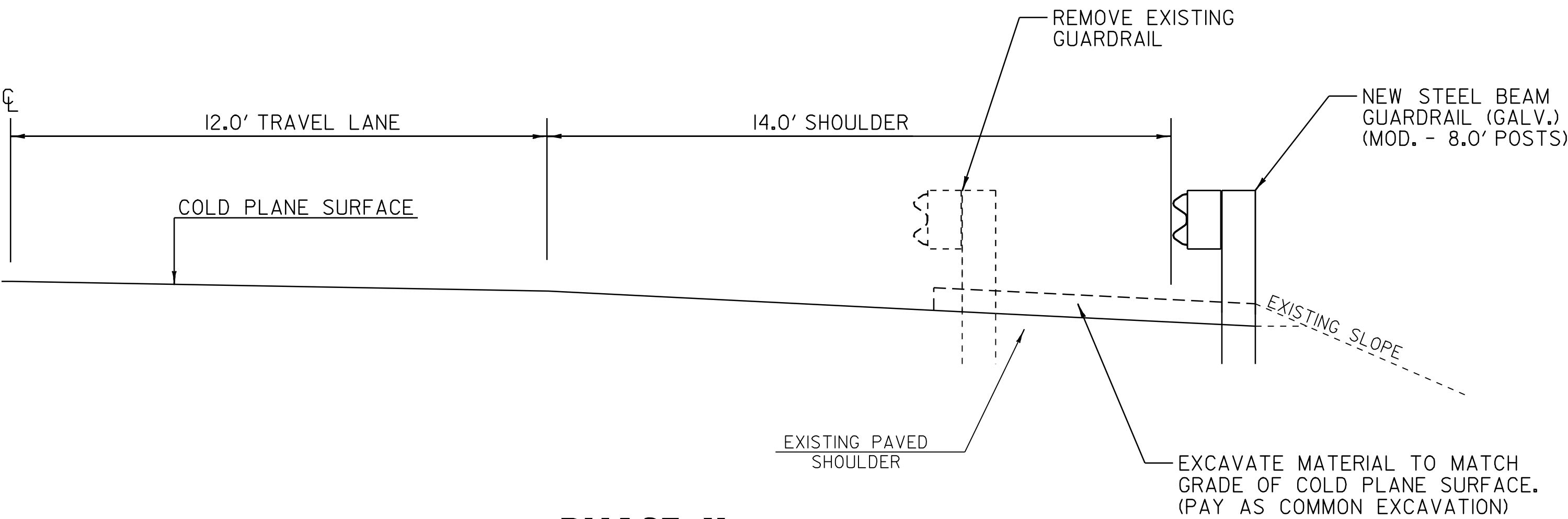
PHASE I



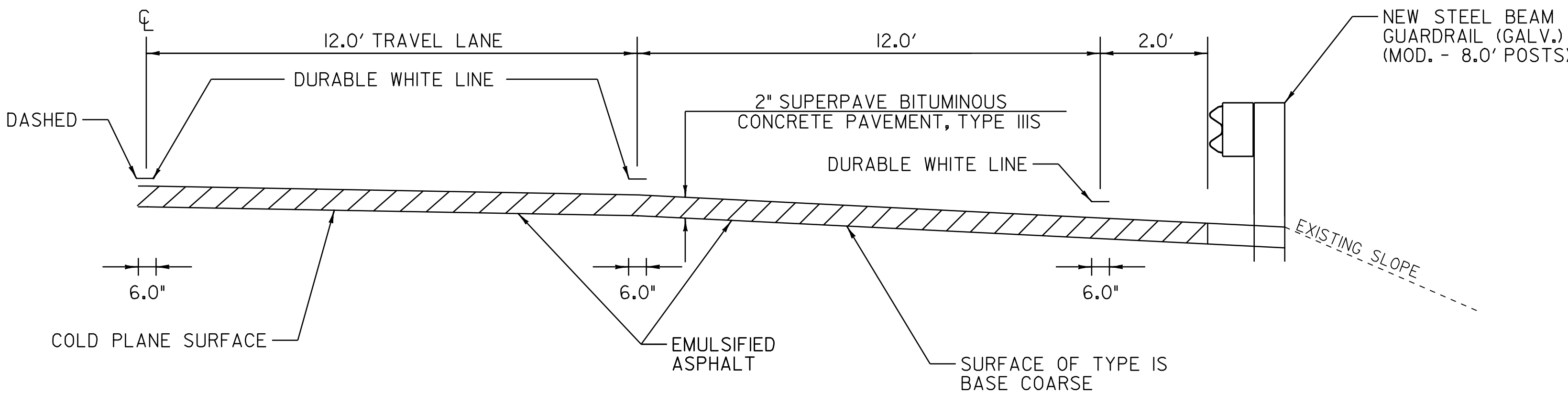
PHASE III

NOTE:

- I. THE CONTRACTOR SHALL NOT LEAVE THE UNPROTECTED 6" DROP OFF EXPOSED TO VEHICULAR TRAFFIC. THE CONTRATOR SHALL EXCAVATE TO A 6" DEPTH AND OVERLAY WITH 6" OF SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IS IN THE SAME WORKDAY, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.



PHASE II



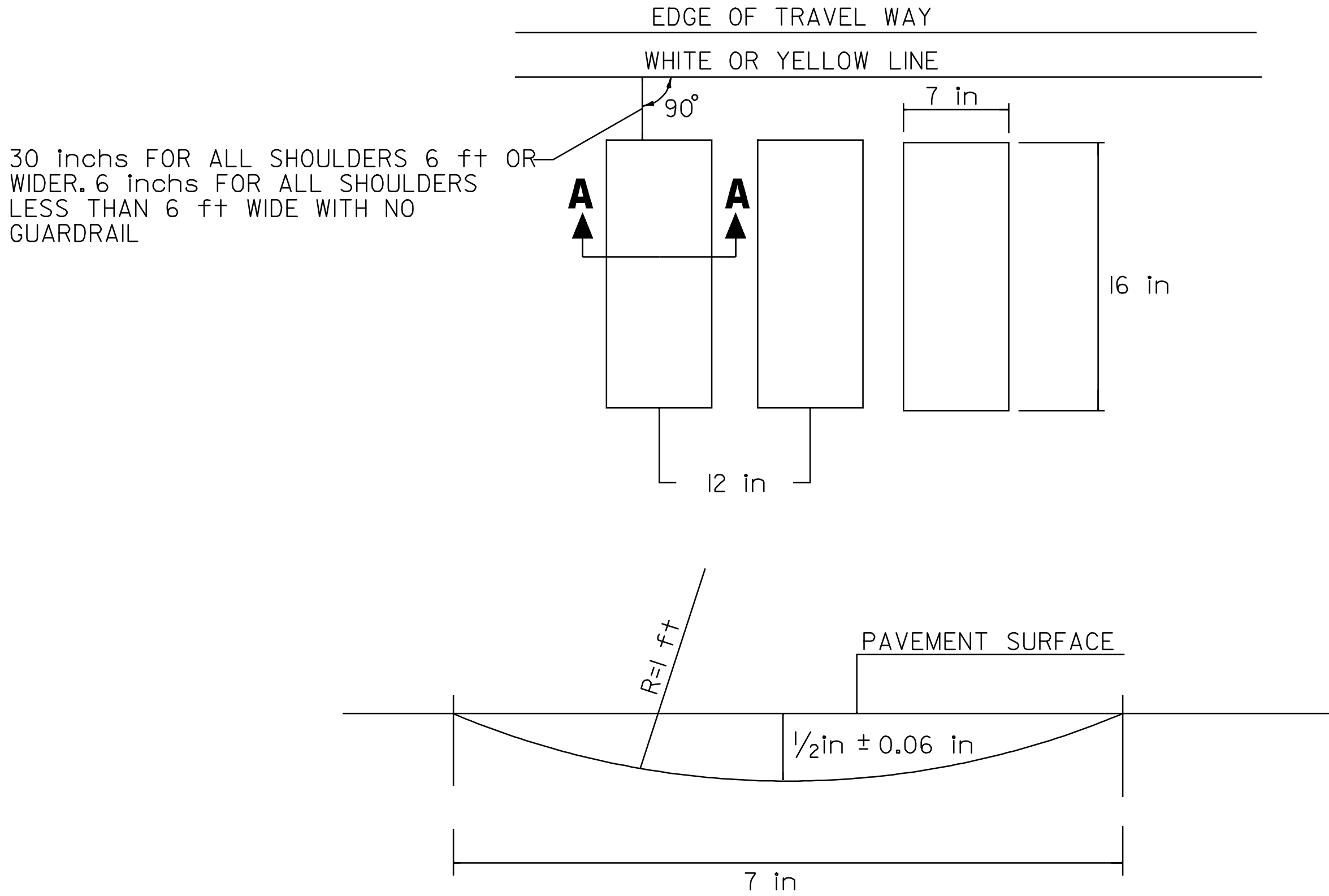
PHASE IV

NOT TO SCALE

**COMPOSITE
ACCEL /DECEL
LANE WIDENING
DETAILS**

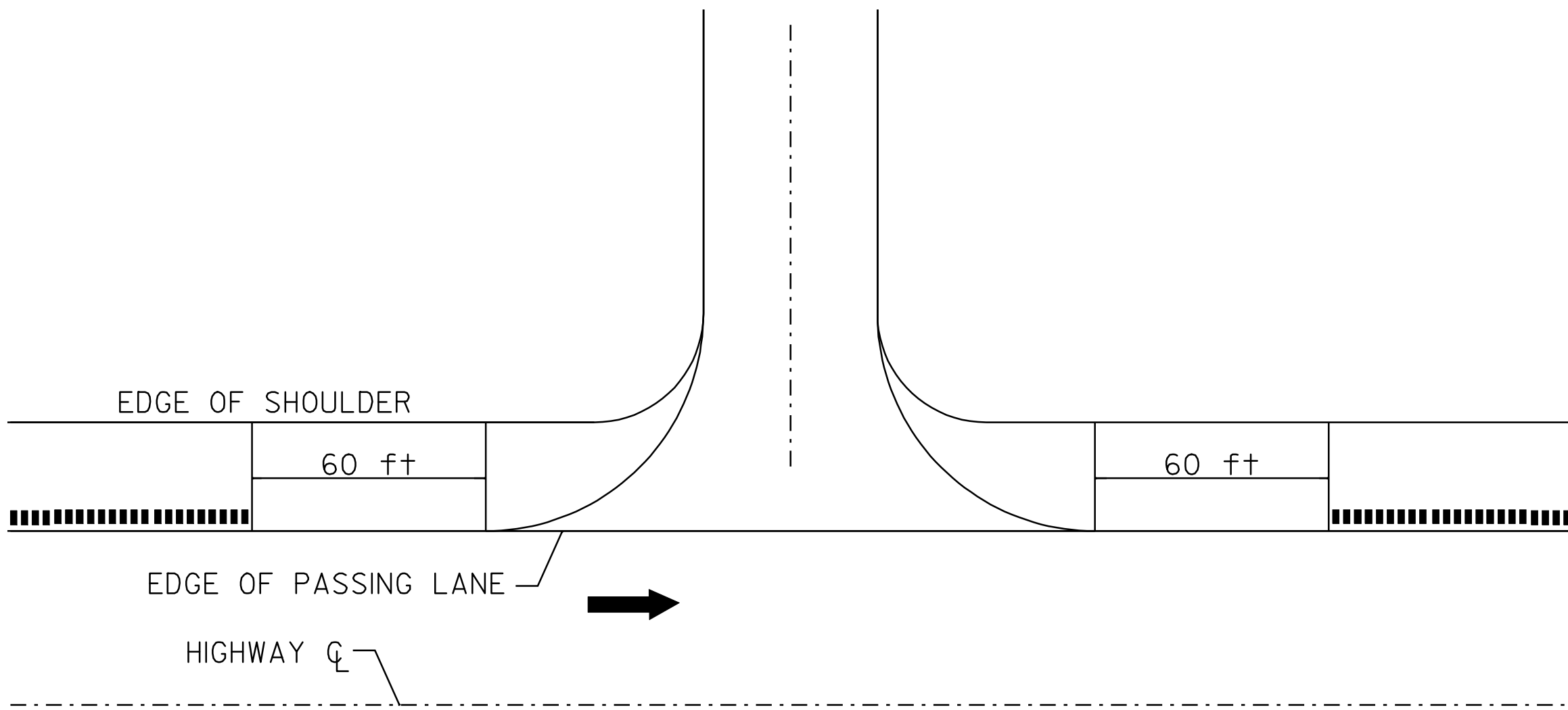
PROJECT NAME:	GUILFORD-BRATTLEBORO
PROJECT NUMBER:	AC IM 09I-I(5I) / AC IM 09I-I(54)
FILE NAME:	05A0I4clwd.I
PROJECT LEADER:	CRB
DESIGNED BY:	CLD
CLD REF. NO.	05-0387
PLOT DATE:	22-JAN-2009 13:3
DRAWN BY:	MRS
CHECKED BY:	NLL
SHEET	6 OF 69

TYPICAL MILLING DETAIL

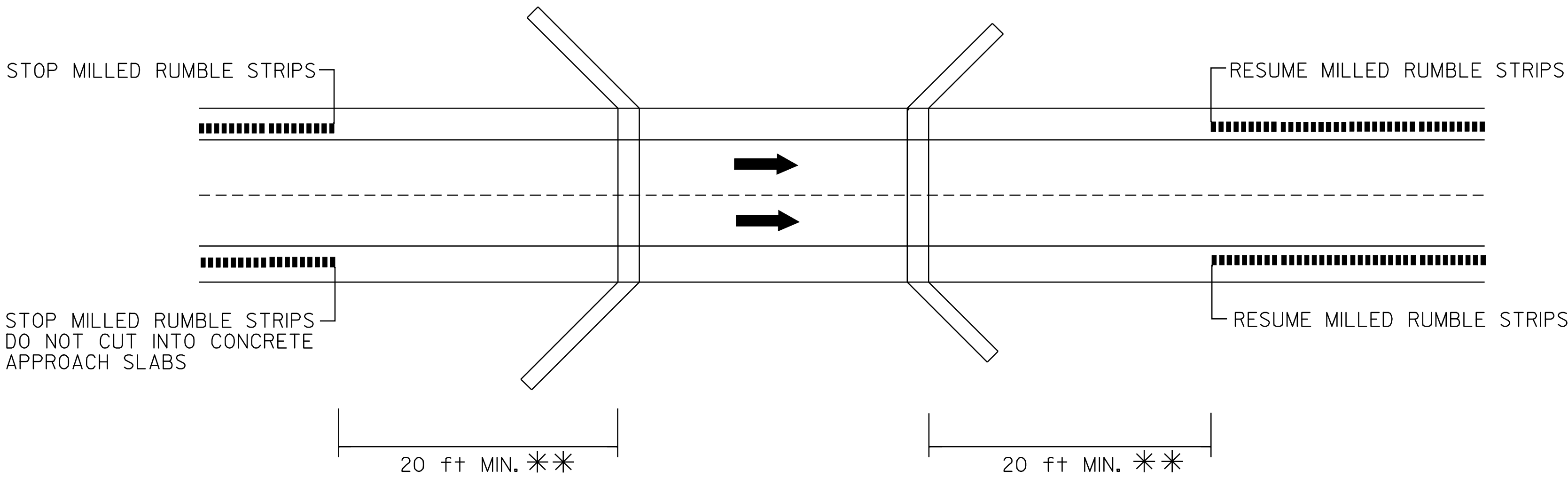


SECTION A-A

U-TURN DETAIL



BRIDGE DETAIL

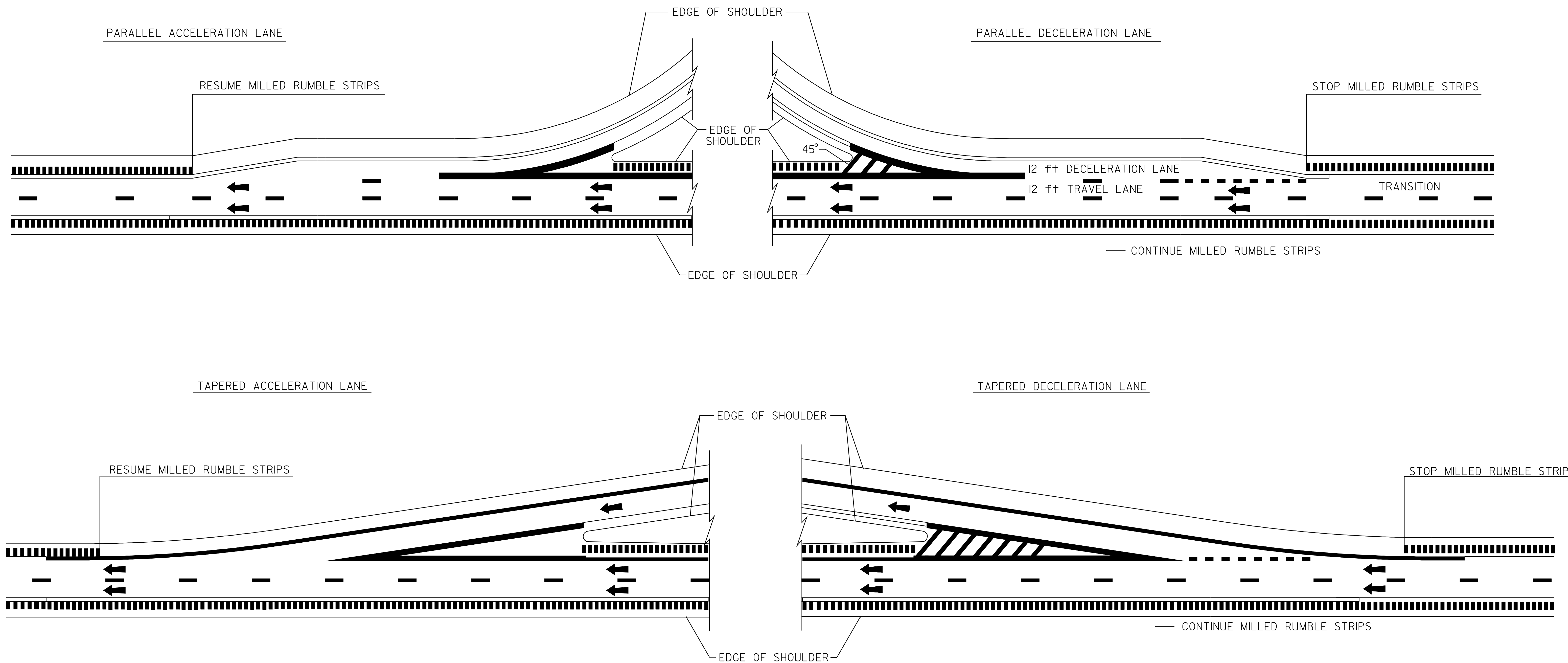


** BRIDGE RAIL WILL DETERMINE MINIMUM DISTANCE IN SOME CASES.

LEGEND

- DIRECTION OF TRAFFIC FLOW
- MILLED RUMBLE STRIPS

TYPICAL MILLING AT INTERCHANGES & REST AREAS



LEGEND

- DIRECTION OF TRAFFIC FLOW
- MILLED RUMBLE STRIPS

NOTE:
1. THIS TYPICAL MAY BE MODIFIED AT THE DISCRETION OF THE RESIDENT ENGINEER IF ACTUAL FIELD CONDITIONS NECESSITATE SUCH ACTIONS.

NOT TO SCALE

COMPOSITE MILLED RUMBLE STRIP DETAIL #2	PROJECT NAME: GUILFORD-BRATTLEBORO	
	PROJECT NUMBER: AC IM 09I-I(5I) / AC IM 09I-I(54)	
	FILE NAME: 05A0I4crs2.I	PLOT DATE: 22-JAN-2009 13:3
	PROJECT LEADER: CRB	DRAWN BY: MRS
	DESIGNED BY: CLD	CHECKED BY: NULL
	CLD REF. NO. 05-0387	SHEET 8 OF 69

STATE OF VERMONT
AGENCY OF TRANSPORTATION



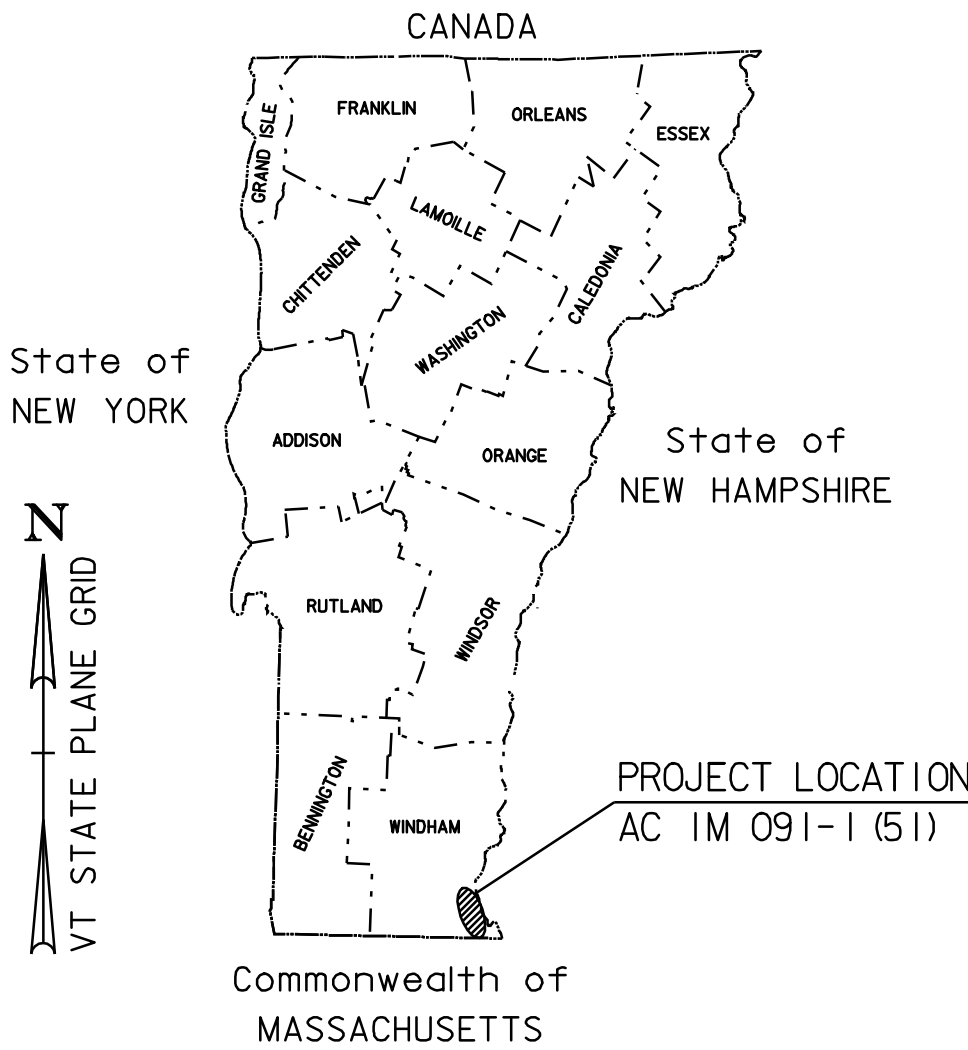
PROPOSED IMPROVEMENT
TOWNS OF GUILFORD,
VERNON & BRATTLEBORO
COUNTY OF WINDHAM
INTERSTATE ROUTE 91 NB

BEGINNING IN GUILFORD ON I-91 AT THE MASSACHUSETTS STATE LINE AT STATION 0+00 (MM 0.000) AND EXTENDING NORTHERLY A DISTANCE OF 62,916.48 FEET (11.916 MILES) TO STATION 629+16.48 (MM 11.916) IN THE TOWN OF BRATTLEBORO

PROJECT DATA

FROM	TO
STA 0+00.00 (MM 0.000)	STA 629+16.48 (MM 11.916)
LENGTH OF ROADWAY = 11.916 MILES (62,916.48 FEET)	
LENGTH OF PROJECT = 11.916 MILES (62,916.48 FEET)	

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE NORTHBOUND LANES, NORTHBOUND INTERCHANGE RAMP AND MAINTENANCE U-TURNS WITH A WEARING COURSE, NEW PAVEMENT MARKINGS, GUARDRAIL, SIGNS, AND INCIDENTAL ITEMS AS SHOWN IN THE PROJECT QUANTITIES.



TRAFFIC DATA	
MM 0.00 TO 7.48 (GUILFORD/VERNON/BRATTLEBORO)	
2006 ADT	= 10,300
2006 DHV	= 1500
2016 ADT	= 11,800
2016 DHV	= 1800
2006 - 2016 ESALS	= 9,872,000
2006 - 2026 ESALS	= 24,221,000
MM 7.48 TO 8.73 (BRATTLEBORO)	
2006 ADT	= 9,700
2006 DHV	= 1300
2016 ADT	= 11,100
2016 DHV	= 1500
2006 - 2016 ESALS	= 8,298,000
2006 - 2026 ESALS	= 22,647,000
MM 8.73 TO 11.55 (BRATTLEBORO)	
2006 ADT	= 13,700
2006 DHV	= 1600
2016 ADT	= 15,500
2016 DHV	= 1900
2006 - 2016 ESALS	= 11,657,000
2006 - 2026 ESALS	= 31,616,000
MM 11.55 TO 11.916 (BRATTLEBORO)	
2006 ADT	= 8,700
2006 DHV	= 1200
2016 ADT	= 10,200
2016 DHV	= 1400
2006 - 2016 ESALS	= 5,126,000
2006 - 2026 ESALS	= 14,219,000

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	31,616,000
DESIGN NUMBER OF GYRATIONS	100
PERFORMANCE GRADED ASPHALT BINDER	64-28

UNLESS OTHERWISE NOTED, ALL DRAWINGS AND DETAILS OF THE PROJECT PLANS ARE NOT TO SCALE

RIGHT-OF-WAY LIMITS, IF APPLICABLE, ARE PROVIDED SOLEY 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.

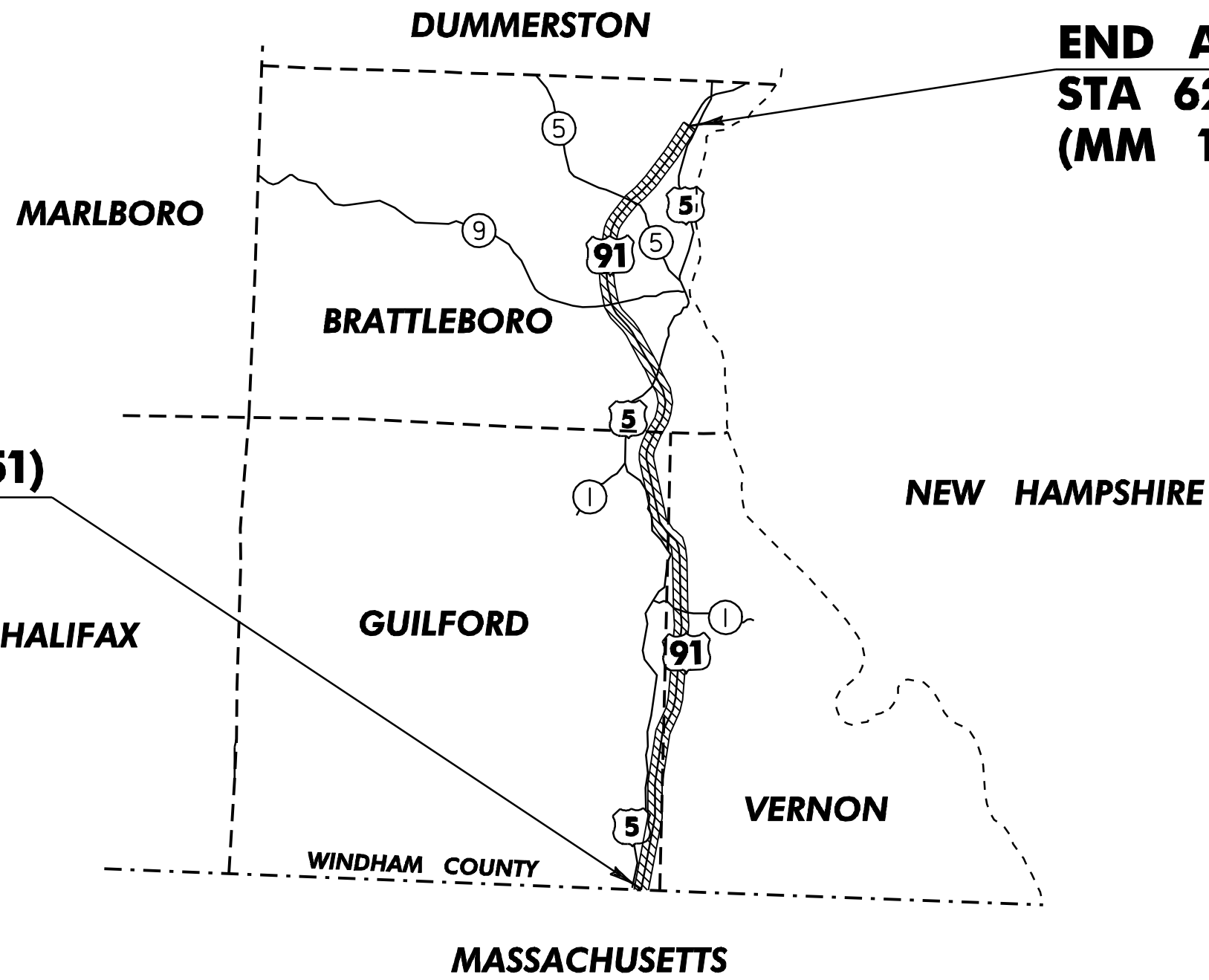
THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

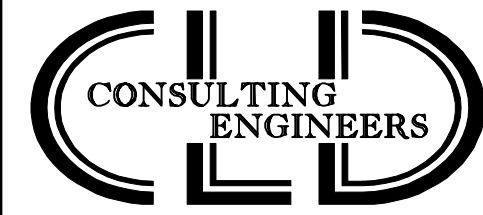
PROJECT MANAGER:	MARK WOOLAVER
PROJECT NAME :	GUILFORD-BRATTLEBORO
PROJECT NUMBER :	AC IM 091-1 (51)
SHEET	9 OF 69 SHEETS

BEGIN AC IM 091-1(51)
STA 0+00.00
(MM 0.000)

END AC IM 091-1(51)
STA 629+16.48
(MM 11.916)



DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

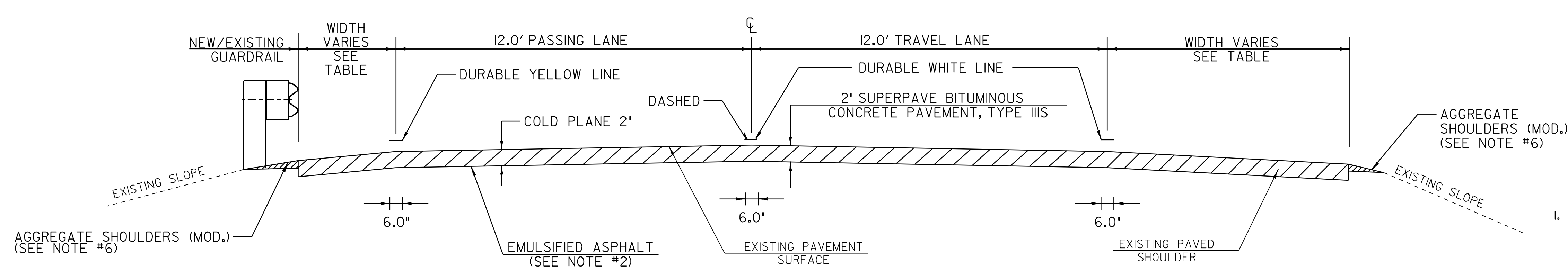


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Maine • New Hampshire • Vermont

IMPERIAL PLANS
PREPARED BY:

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	



MAINLINE TYPICAL SECTION

STA 0+00	TO	STA 275+79
STA 276+79	TO	STA 314+90
STA 318+97	TO	STA 393+99
STA 395+97	TO	STA 431+51
STA 432+93	TO	STA 451+45
STA 455+60	TO	STA 544+67
STA 546+04	TO	STA 552+78
STA 562+59	TO	STA 609+28
STA 610+70	TO	STA 629+16

PROJECT PAVING LIMITS
(REFER TO COLD PLANE TRANSITION DETAILS ON TYPICAL SHEETS 2 AND 3)

TOWN	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	PAVEMENT TYPE	NOTES
INTERSTATE 91 GUILFORD	0+00	5+45	4.0-12.0-12.0-11.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	5+45	11+00	4.0-12.0-12.0-17.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	11+00	12+25	4.0-12.0-12.0-30.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	12+25	19+27	4.0-12.0-12.0-12.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	19+27	29+04	4.0-12.0-12.0-17.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	29+04	122+17	4.0-12.0-12.0-10.0	2	IIIS	COLD PLANE AND OVERLAY 2"
VERNON GUILFORD	122+17	266+94	4.0-12.0-12.0-10.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	266+94	275+79	4.0-12.0-12.0-10.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	275+79	276+79	10.0-12.0-12.0-10.0	1 1/4	IVS	COLD PLANE AND OVERLAY 1 1/4, BRIDGE 2N
	276+79	314+90	6.0-12.0-12.0-9.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	314+90	318+97	DO NOT PAVE			DO NOT PAVE , BRIDGE 3N
	318+97	352+01	4.0-12.0-12.0-10.0	2	IIIS	COLD PLANE AND OVERLAY 2"
BRATTLEBORO	352+01	393+99	4.0-12.0-12.0-10.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	393+99	395+97	10.0-12.0-12.0-10.0	1 1/4	IVS	COLD PLANE AND OVERLAY 1 1/4, BRIDGE 4N
	395+97	431+51	4.0-12.0-12.0-10.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	431+51	432+93	8.0-12.0-12.0-10.0	2	IIIS	COLD PLANE 1" AND OVERLAY 2" BRIDGE 5N
	432+93	451+45	4.0-12.0-12.0-8.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	451+45	455+60	3.0-12.0-12.0-3.0	1	IVS	COLD PLANE AND OVERLAY 1" BRIDGE 6N
	455+60	498+96	4.0-12.0-12.0-14.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	498+96	544+67	4.0-12.0-12.0-10.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	544+67	546+04	8.0-12.0-12.0-10.0	2	IIIS	COLD PLANE 1" AND OVERLAY 2" BRIDGE 8N
	546+04	552+78	4.0-12.0-12.0-10.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	552+78	562+59	3.0-12.0-12.0-3.0	1	IVS	COLD PLANE AND OVERLAY 1", BRIDGE 9N
	562+59	609+28	4.0-12.0-12.0-10.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	609+28	610+70	6.0-12.0-12.0-12.0	2	IIIS	COLD PLANE 1" AND OVERLAY 2" BRIDGE 11N
	610+70	629+16	4.0-12.0-12.0-10.0	2	IIIS	COLD PLANE AND OVERLAY 2"
RAMPS	EXIT 1 ON		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"
	EXIT 1 OFF		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"
	EXIT 2 ON		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"
	EXIT 2 OFF		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"
	EXIT 3 ON		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"
	EXIT 3 OFF		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"

SEEDING FORMULA – RURAL AREAS

% 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			

GENERAL NOTES

- THE PAVEMENT WEARING COURSE SHALL BE TYPE IIIS ON THE ROADWAY SURFACES AND TYPE IVS ON THE BRIDGE SURFACES, ITEM 490.30 AS SHOWN ON THE TYPICALS, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL LIQUID ASPHALT USED IN BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 64-28.
- EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.026 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
- SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = 1/4" ± (TOTAL THICKNESS EXCLUDING LEVELING COURSE - IF USED).
- 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 RAMP APPROACHES AS SHOWN ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL BUTT JOINTS SHALL BE SAW CUT, INCIDENTAL TO ITEM 490.30.
- ESTIMATED QUANTITIES OF ITEM 608.25, EXCAVATOR RENTAL, TYPE I AND 608.37, TRUCK RENTAL HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL FLARES. THE GUARDRAIL FLARES SHALL BE CAPPED WITH AN ESTIMATED 3 INCH DEPTH OF AGGREGATE SHOULDERS (MOD.) UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 TONS OF AGGREGATE SHOULDERS (MOD.) FOR EACH GUARDRAIL TERMINAL. AN ESTIMATED QUANTITY OF EARTH BORROW HAS BEEN INCLUDED TO PROVIDE FOR FLARE CONSTRUCTION.
- ALL EDGES OF PAVEMENT SHALL BE BACKED UP FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.12, AGGREGATE SHOULDERS (MOD.).
- ITEM 616.47, BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS WILL BE PAID ONLY WHERE SPECIFIED IN THE PLANS. ALL OTHER BITUMINOUS CONCRETE PAVEMENT WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
- COMPACTION, GRADING AND CLEAN UP ITEM 402.12, AGGREGATE SHOULDERS (MOD.) MATERIAL AND ITEM 651.35, TOPSOIL IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE OF EACH ITEM.
- SEED MIXTURE: SHALL NOT HAVE 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 RESIDENT 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 RESIDENT ENGINEER.
- HAY MULCH: TO BE PLACED ON THE EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- THE EASTERN RACER (COLUBER CONSTRICTOR) IS A STATE THREATENED SNAKE WHICH HAS BEEN LOCATED WITHIN THE PROJECT AREA. IN ORDER TO INSURE THAT NO EASTERN RACERS ARE INJURED OR KILLED DURING CONSTRUCTION, NO PROJECT-RELATED ACTIVITY, TO INCLUDE STAGING, PARKING OF VEHICLES, OR OPERATION OF MACHINERY OR EQUIPMENT FOR ANY REASON, WILL BE ALLOWED OFF THE PAVED SURFACED FROM NORTHBOUND MM 0.000 TO 2.000. THE CONTRACTOR WILL BE ALLOWED TO USE THE PAVED PULLOUT AREA AT NB MM 112 FOR PARKING VEHICLES AND EQUIPMENT. THE CONTRACTOR SHALL INSTALL SIGNS SECURED TO 1" BY 1" GRADE STAKES ALONGSIDE THE DELINEATOR POSTS THROUGHOUT THIS TWO MILE STRETCH (SPACED 0.10 MILES APART). THE SIGNS SHALL BE 10" BY 12" AND SHALL READ "KEEP OFF THE GRASS". ANY VARIATION IN THE SIZE OR TEXT OF THESE SIGNS SHALL BE APPROVED BY THE RESIDENT ENGINEER.

THE CONTRACTOR SHALL INSPECT THESE SIGNS ON A DAILY BASIS AND REPLACE DAMAGED OR MISSING SIGNS IMMEDIATELY. THESE SIGNS SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE.

THE COST OF PROVIDING, INSTALLING, INSPECTING AND REMOVING THESE SIGNS SHALL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED INCIDENTAL TO ITEM 641.01 TRAFFIC CONTROL.
- THE CONTRACTOR SHALL MAINTAIN COLD PLANE AND PAVING DEPTHS THAT DO NOT REDUCE THE CLEARANCE HEIGHTS OF THE ROADWAY OR SHOULDERS UNDER THE OVERPASS BRIDGES (BR-1N, BR-7 N AND BR-10 N). THESE HEIGHTS SHALL BE RECORDED BY THE RESIDENT ENGINEER PRIOR TO THE START OF CONSTRUCTION AND SHALL BE REMEASURED AFTER PAVING OPERATIONS ARE COMPLETE. IF IT IS DETERMINED THAT A REDUCTION IN CLEAR HEIGHT HAS OCCURED, THE CONTRACTOR SHALL RE-ESTABLISH THE ORIGINAL CLEAR HEIGHT AT NO ADDITIONAL EXPENSE TO THE STATE.
- THE PRE-CONSTRUCTION CONFERENCE SHALL INCLUDE AWARENESS EDUCATION REGARDING THE EASTERN RACER FOR THE CONTRACTORS, STAFF AND ANY SUB-CONTRACTORS. THE RESIDENT ENGINEER SHALL BE RESPONSIBLE FOR THREATENED & ENDANGERED SPECIES PERMIT COMPLIANCE.

DATUM

VERTICAL _____

HORIZONTAL _____

NOT TO SCALE

PROJECT
TYPICAL
SHEET 1

PROJECT NAME: GUILFORD-BRATTLEBORO

PROJECT NUMBER: AC IM 091-1(51)

FILE NAME: 03A020+typ1.i

PROJECT LEADER: CRB

DESIGNED BY: CLD

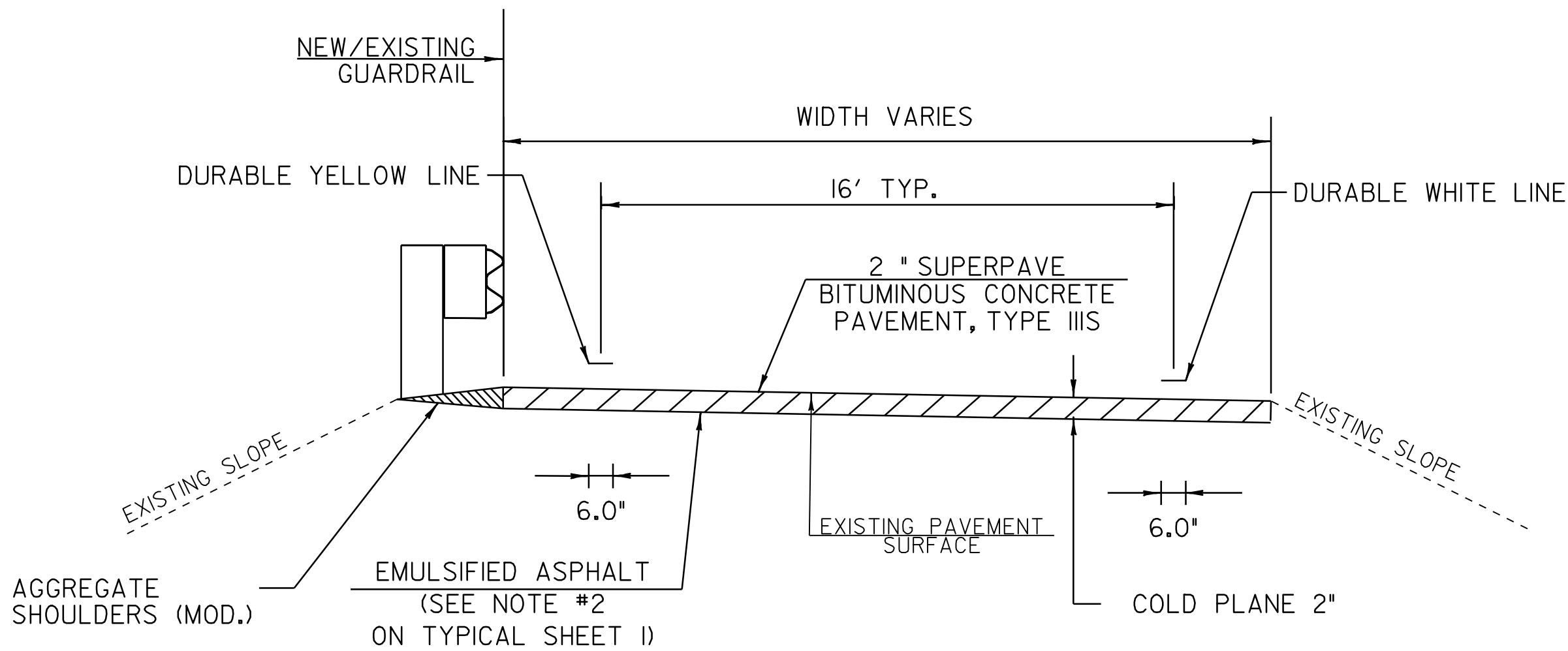
CLD REF. NO. 04-0398

PLOT DATE: 22-JAN-2009 13:3

DRAWN BY: JCS

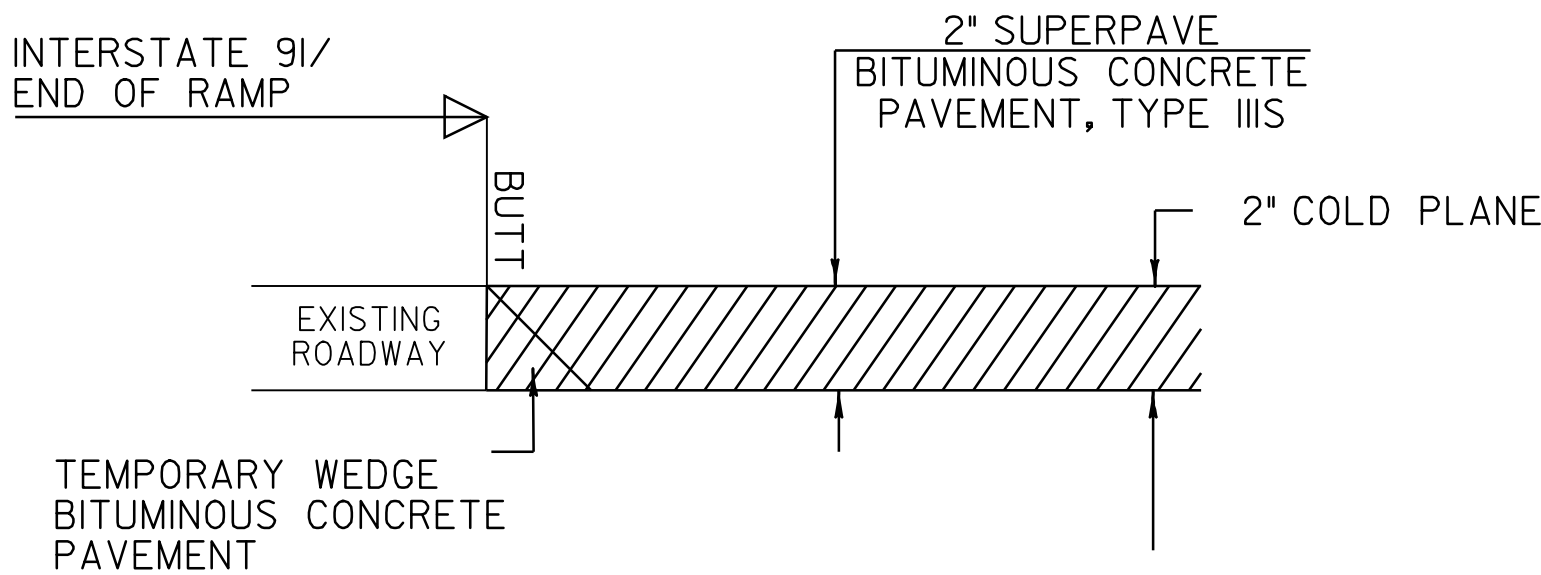
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SHEET 10 OF 69



RAMP PAVEMENT TYPICAL

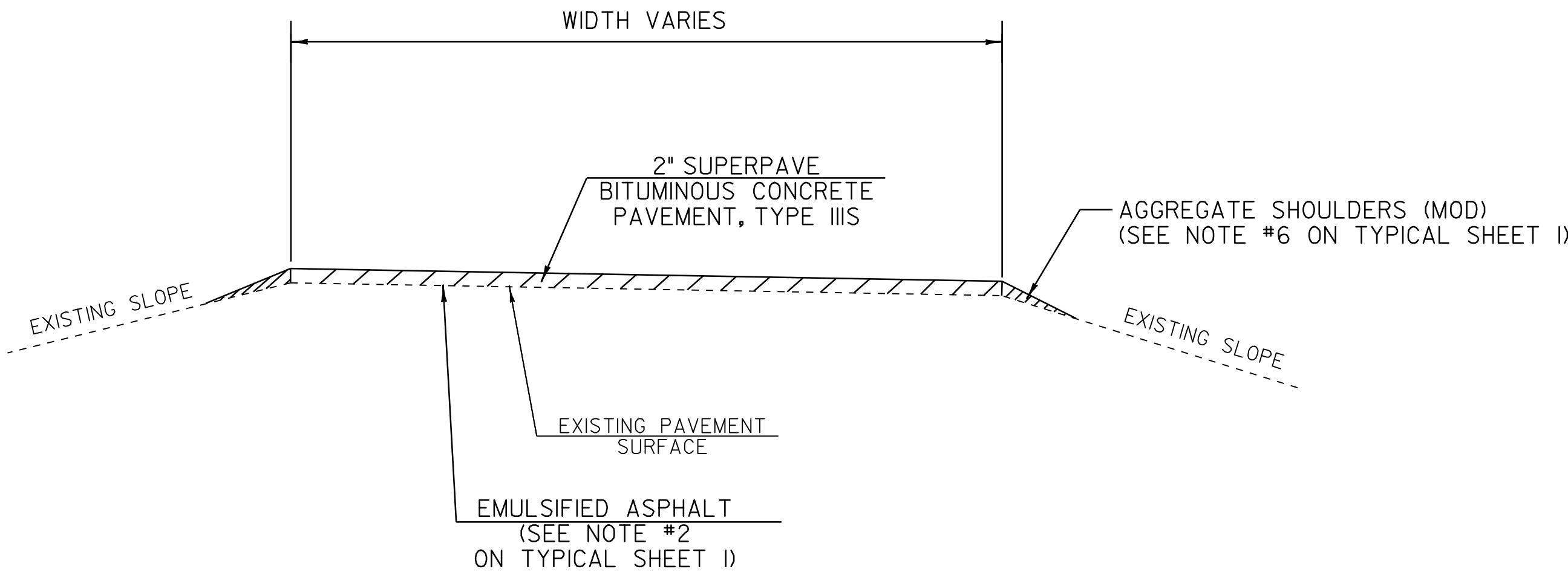
- EXIT 1 OFF RAMP E - SEE SHEET #21
- EXIT 1 ON RAMP S G & H - SEE SHEET #22
- EXIT 2 OFF RAMP B - SEE SHEET #23-24
- EXIT 2 ON RAMP A - SEE SHEET #23-25
- EXIT 3 OFF RAMP C - SEE SHEET #26
- EXIT 3 ON RAMP D - SEE SHEET #27



MAINLINER/RAMP APPROACH AREA DETAIL

LOCATION

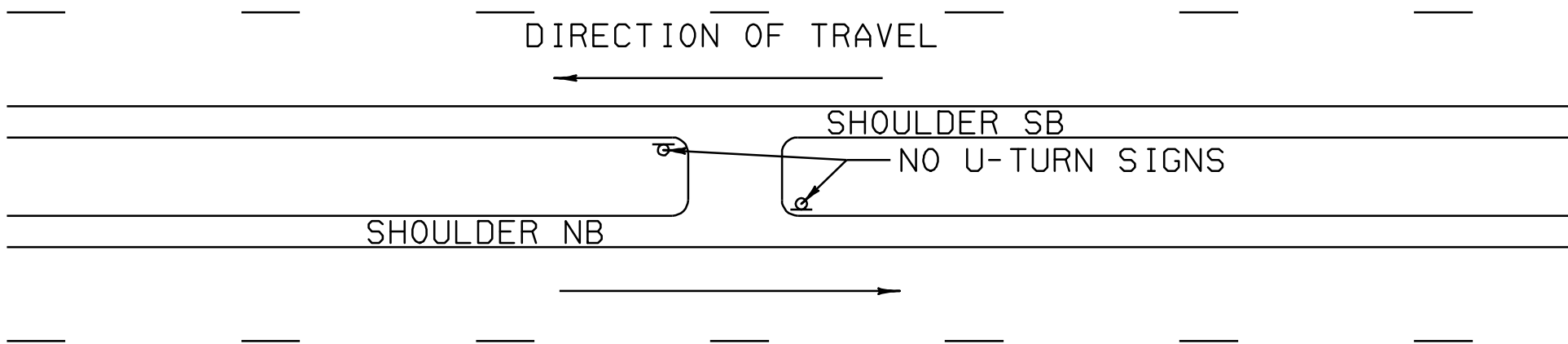
- STA 0+00, GUILFORD - BEGIN COLD PLANING
- STA 314+90, GUILFORD - STOP COLD PLANING 75' FROM BRIDGE #3
- STA 318+97, GUILFORD - RESUME COLD PLANING 75' FROM BRIDGE #3
- STA 629+16, BRATTLEBORO - END COLD PLANING
- EXIT 1 ON & OFF RAMP S @ PAVEMENT MATCH
- EXIT 2 ON & OFF RAMP S @ PAVEMENT MATCH
- EXIT 3 ON & OFF RAMP S @ PAVEMENT MATCH



U-TURN TYPICAL

LOCATION

- GUILFORD
- STA 0+21 48 X 24
- STA 5+44 45 X 31
- STA 102+60 46 X 31
- VERNON
- STA 221+23 45 X 31
- GUILFORD
- STA 307+30 43 X 102
- STA 348+48 46 X 30
- BRATTLEBORO
- STA 419+76 42 X 31
- STA 463+06 42 X 32
- STA 498+96 42 X 31
- STA 591+36 42 X 31
- STA 628+32 42 X 32



NOT TO SCALE

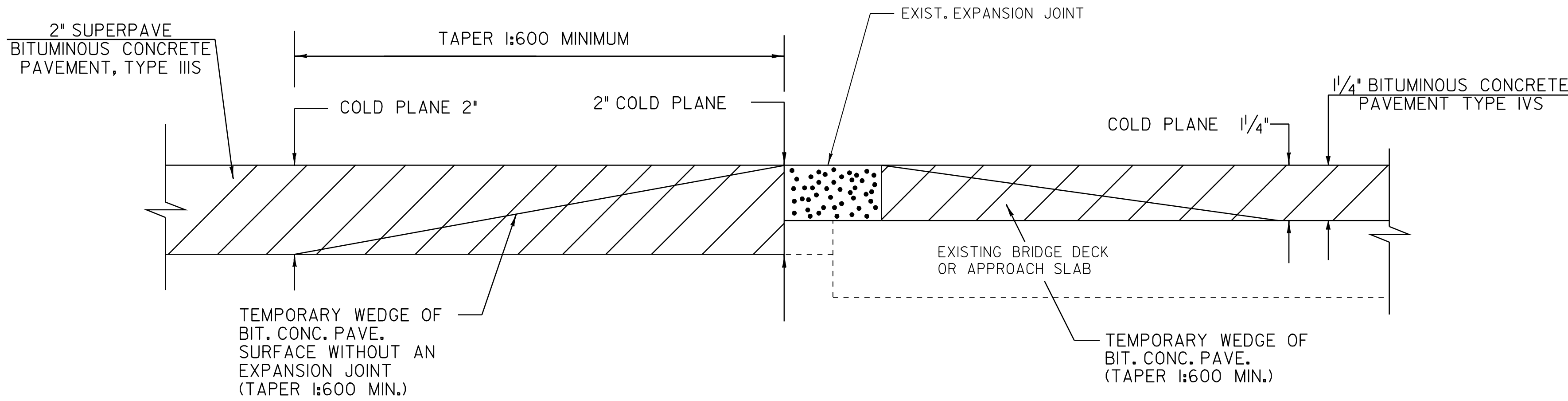
PROJECT
TYPICAL
SHEET 2

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 09I-I(5I)

FILE NAME: 03A020+yp2.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 04-0398

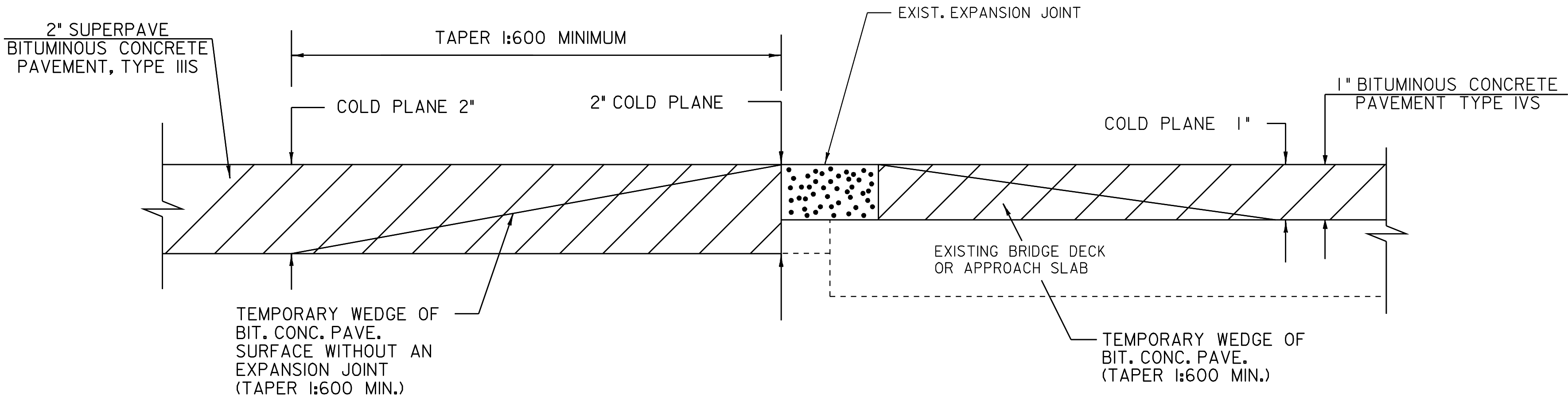
PLOT DATE: 22-JAN-2009 13:3
DRAWN BY: JCS
CHECKED BY: NLL
SHEET II OF 69

DATUM
VERTICAL _____
HORIZONTAL _____



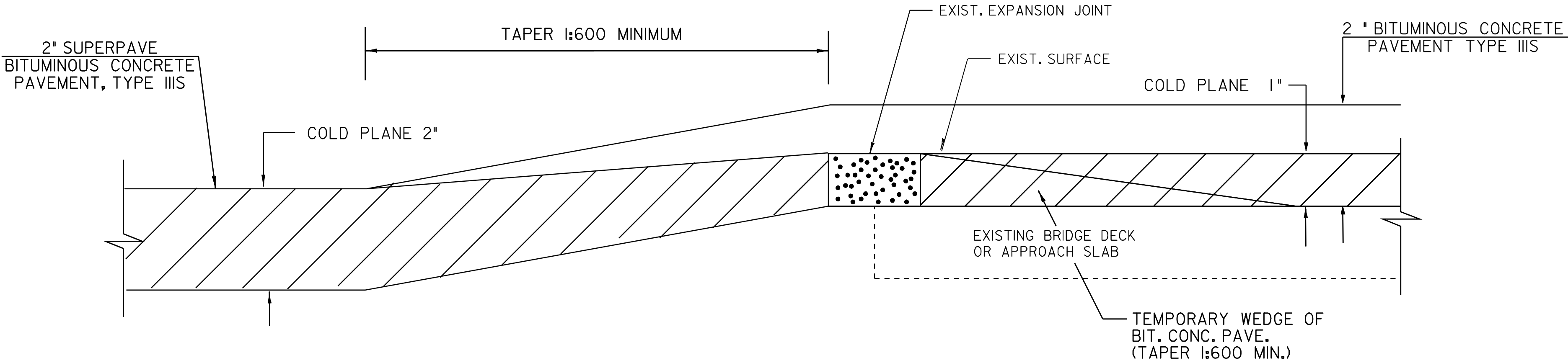
BRIDGE APPROACH DETAIL

LOCATION
BRIDGE 2N STA 275+79, STA 276+79
BRIDGE 4N STA 393+99, STA 395+97



BRIDGE APPROACH DETAIL

LOCATION
BRIDGE 6N STA 451+45, STA 455+60
BRIDGE 9N STA 552+78, STA 562+59



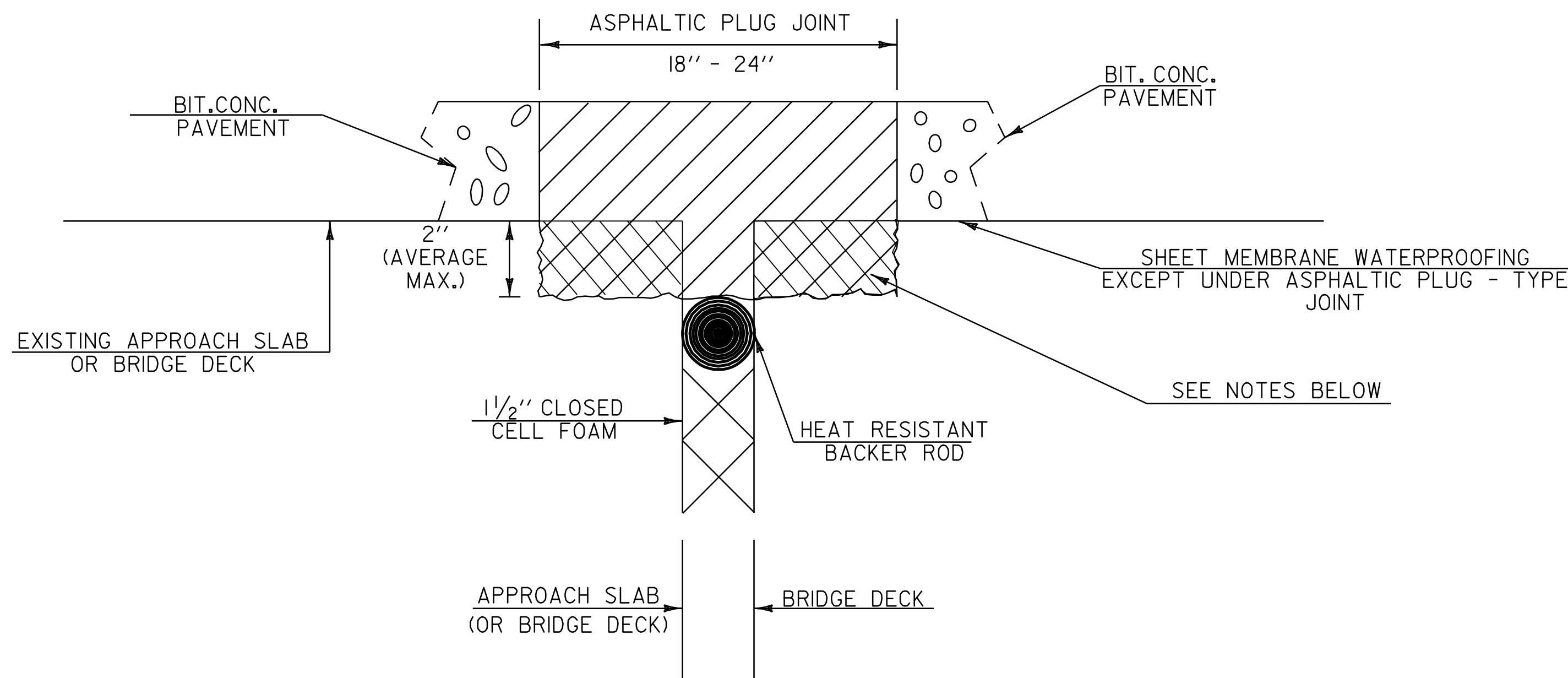
BRIDGE APPROACH DETAIL

LOCATION
BRIDGE 5N STA 431+51, STA 432+93
BRIDGE 8N STA 544+67, STA 546+04
BRIDGE 11N STA 609+28, STA 610+70

DATUM	
VERTICAL	_____
HORIZONTAL	_____

NOT TO SCALE

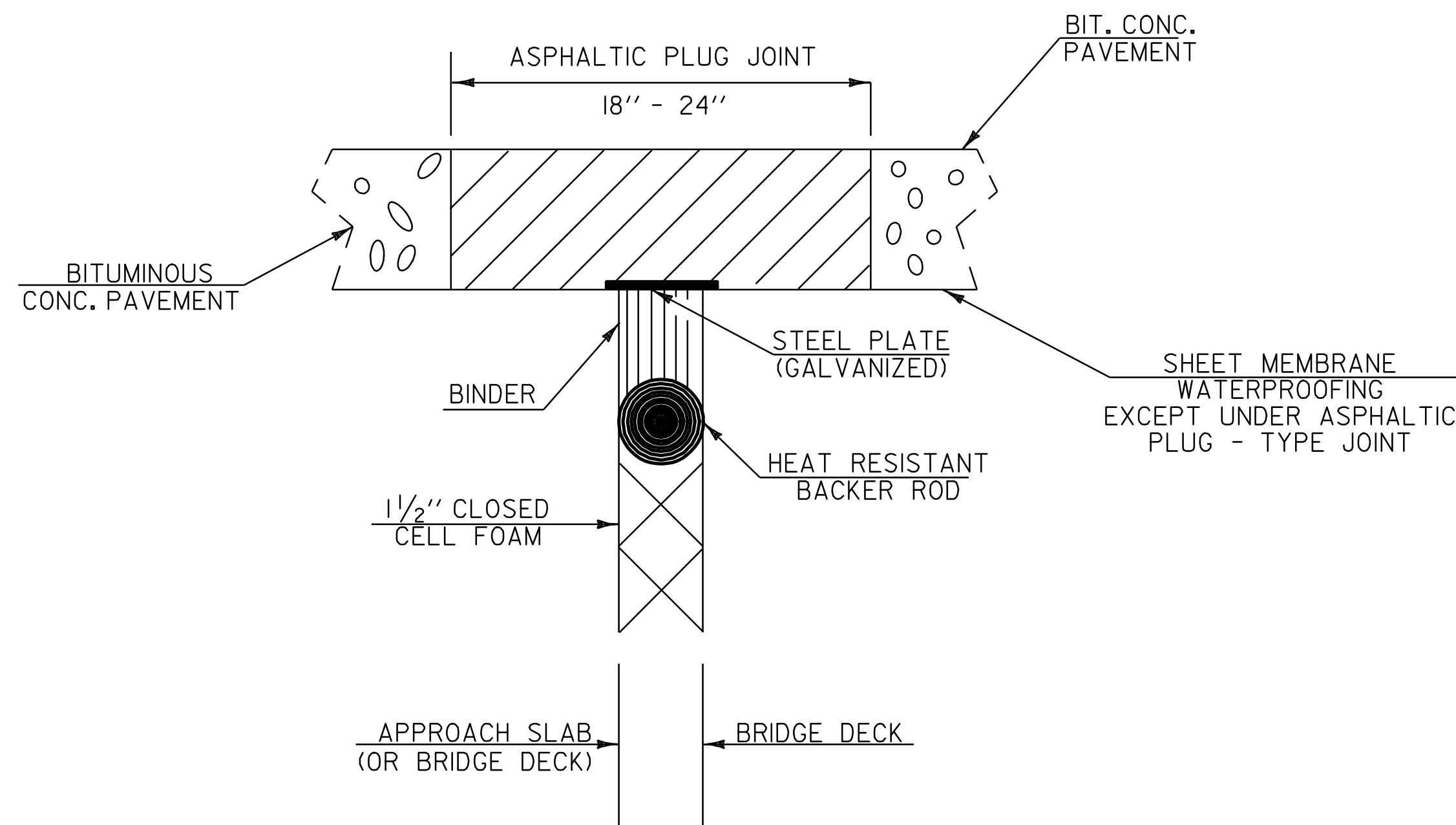
PROJECT TYPICAL SHEET 3	PROJECT NAME: GUILFORD-BRATTLEBORO	
	PROJECT NUMBER: AC IM 09I-I(5I)	
	FILE NAME: 03A020+yp3.1	PLOT DATE: 22-JAN-2009 13:3
	PROJECT LEADER: CRB	DRAWN BY: JCS
	DESIGNED BY: CLD	CHECKED BY: NLL
	CLD REF. NO. 04-0398	SHEET 12 OF 69



**ASPHALTIC PLUG – TYPE
JOINT DETAIL
REMOVAL OF UP TO
2” DETERIORATED CONCRETE**

NOTES:

- UPON ENCOUNTERING UP TO 2” AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH THE ASPHALTIC PLUG JOINT MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER.
- REMOVAL OF THE DETERIORATED CONCRETE WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10. THE ADDITIONAL PLUG JOINT MATERIAL BELOW THE DESIGN DEPTH TO REPLACE THE DETERIORATED CONCRETE WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10.
- THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.
- REFER TO SPECIAL PROVISIONS FOR BASIS OF PAYMENT.

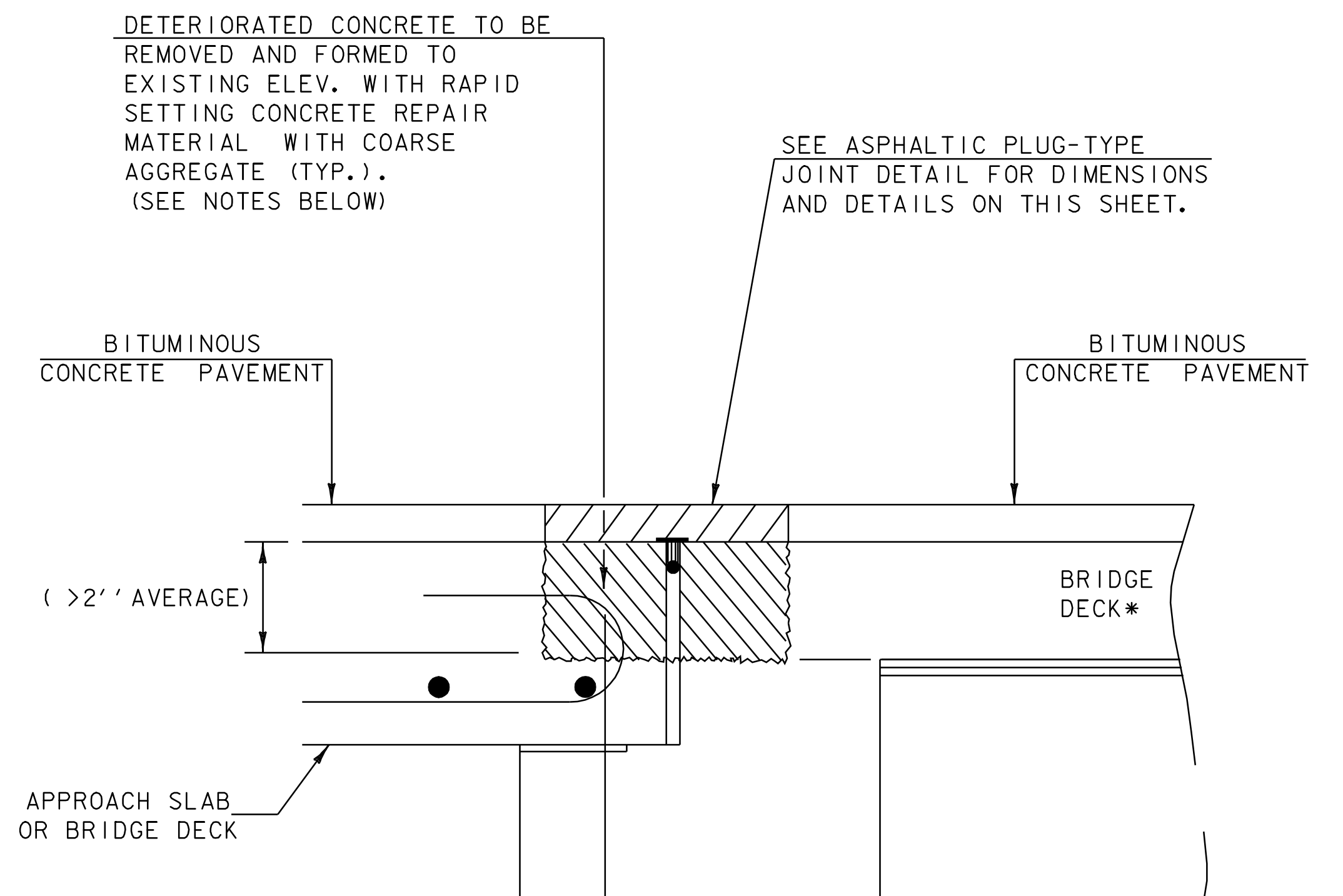


**ASPHALTIC PLUG – TYPE
JOINT DETAIL**

ASPHALTIC PLUG – TYPE JOINTS

LOCATION

BRIDGE:	2N	275+79,	44	FT
	2N	276+79,	44	FT
	4N	393+99,	44	FT
	4N	395+97,	44	FT
	5N	431+51,	42	FT
	5N	432+00,	42	FT
	5N	432+50,	42	FT
	5N	432+93,	42	FT
	6N	451+45,	30	FT
	6N	452+23,	30	FT
	6N	453+07,	30	FT
	6N	453+92,	30	FT
	6N	454+75,	30	FT
	6N	455+60,	30	FT
	8N	544+67,	42	FT
	8N	545+16,	42	FT
	8N	545+65,	42	FT
	8N	546+04,	42	FT
	9N	552+78,	30	FT
	9N	562+56,	30	FT
	11N	609+28,	42	FT
	11N	609+67,	42	FT
	11N	610+31,	42	FT
	11N	610+70,	42	FT



*BRIDGE DECK REINFORCEMENT
NOT SHOWN FOR CLARITY

**ASPHALTIC PLUG – TYPE
JOINT DETAIL
REMOVAL OF >2”
DETERIORATED CONCRETE**

NOTES:

- UPON ENCOUNTERING GREATER THAN 2” AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE.
- REMOVAL OF THE DETERIORATED CONCRETE WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 580.20 "RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE".
- THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.

DATUM	
VERTICAL	_____
HORIZONTAL	_____

NOT TO SCALE

**PROJECT
TYPICAL
SHEET 4**

PROJECT NAME:	GUILFORD-BRATTLEBORO
PROJECT NUMBER:	AC IM 091-1(51)
FILE NAME:	03A020+yp4.1
PROJECT LEADER:	CRB
DESIGNED BY:	CLD
CLD REF. NO.	04-0398
PLOT DATE:	22-JAN-2009 13:3
DRAWN BY:	JCS
CHECKED BY:	NLL
SHEET	13 OF 69

STATE OF VERMONT
AGENCY OF TRANSPORTATION

[illegible]

STATIONS		PAVEMENT WIDTHS			EQUATIONS		FEET	MILES	REMARKS
FROM	TO				+	-			
TOTALS									
22-JAN-2009 13:38 PROJECT NAME GUILFORD - BRATTLEBORO 05A014qs01.i PROJECT NUMBER AC IM 091-1(51)									SHEET 14 OF 69 SHEETS

QUANTITY SHEET #2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

[illegible][illegible][illegible]

STATIONS		PAVEMENT WIDTHS			EQUATIONS		FEET	MILES	REMARKS
FROM	TO				+	-			
TOTALS									

22- JAN-2009 13: 38
O5A014qs02. i

PROJECT NAME GUILFORD - BRATTLEBORO

PROJECT NUMBER AC IM 091-1(51)

SHEET 15 OF 69 SHEETS

[illegible]

[illegible]

TEMPORARY AND DURABLE 6" WHITE LINE

STA 0+00	TO 314+90	SOLID	RT
STA 318+97	TO 448+80	SOLID	RT
STA 0+00	TO 314+90	DASHED	CL
STA 318+97	TO 448+80	DASHED	CL

TEMPORARY AND DURABLE 6" YELLOW LINE

STA 0+00	TO 314+90	SOLID	LT
STA 318+97	TO 448+80	SOLID	LT

BITUMINOUS CONCRETE GUTTERS
AND TRAFFIC ISLANDS

STA 446+96 RT

REMOVAL & DISP. OF GUARDRAIL

STA 211+30	TO 212+83	LT (NB)
STA 211+30	TO 212+83	LT (SB)
STA 211+92	TO 212+17	RT
STA 277+18	TO 277+43	LT
STA 323+50	TO 323+75	RT
STA 392+78	TO 393+34	LT (NB)
STA 392+84	TO 392+92	LT (SB)
STA 395+74	TO 396+63	LT (SB)
STA 396+16	TO 396+63	LT (NB)
STA 397+47	TO 397+72	RT
STA 407+53	TO 407+78	RT
STA 415+99	TO 416+24	RT
STA 433+87	TO 434+12	LT
STA 434+19	TO 434+44	RT

STEEL BEAM GUARDRAIL

STA 207+85	TO 212+35	LT (NB)
STA 211+80	TO 216+30	LT (SB)
STA 211+92	TO 212+04.5	RT
STA 277+18	TO 277+30.5	LT
STA 323+50	TO 323+62.5	RT
STA 389+36	TO 393+36	LT (NB)
STA 393+11	TO 393+36	LT (SB)
STA 396+11	TO 396+36	LT (NB)
STA 396+11	TO 400+11	LT (SB)
STA 397+47	TO 397+59.5	RT
STA 407+53	TO 407+65.5	RT
STA 415+99	TO 416+11.5	RT
STA 433+87	TO 433+99.5	LT
STA 434+19	TO 434+31.5	RT

TRAILING END TERMINAL (TET)

STA 211+67.5	TO 211+80	LT (SB)
STA 212+35	TO 212+47.5	LT (NB)
STA 212+04.5	TO 212+17	RT
STA 277+30.5	TO 277+43	LT
STA 323+62.5	TO 323+75	RT
STA 392+98.5	TO 393+11	LT (SB)
STA 396+36	TO 396+48.5	LT (NB)
STA 397+59.5	TO 397+72	RT
STA 407+65.5	TO 407+78	RT
STA 416+11.5	TO 416+24	RT
STA 433+99.5	TO 434+12	LT
STA 434+31.5	TO 434+44	RT

MANUFACTURED TERMINAL SECTION (MTS)

STA 207+47.5	TO 207+85	LT (NB)	(FLARED)
STA 216+30	TO 216+67.5	LT (SB)	(FLARED)
STA 388+98.5	TO 389+36	LT (NB)	(FLARED)
STA 400+11	TO 400+48.5	LT (SB)	(FLARED)

SNOW BARRIER - GALVANIZED

BRIDGE #1 (OVERPASS) 65 FT EACH SIDE

DELINEATORS

REFER TO STANDARDS E-197, E-198,
AND E-199 FOR PLACEMENT GUIDELINES

TRAFFIC SIGNS, TYPE A

STA 0+00	LT	NO U-TURN
STA 0+00	RT	MM PLAQUE (0.00)
STA 4+75	LT	NO U-TURN
STA 52+80	RT	MM PLAQUE (1.00)
STA 102+43	LT	NO U-TURN
STA 105+60	RT	MM PLAQUE (2.00)
STA 158+40	RT	MM PLAQUE (3.00)
STA 211+20	RT	MM PLAQUE (4.00)
STA 221+23	LT	NO U-TURN
STA 264+00	RT	MM PLAQUE (5.00)
STA 307+30	LT	NO U-TURN
STA 316+80	RT	MM PLAQUE (6.00)
STA 348+48	LT	NO U-TURN
STA 369+60	RT	MM PLAQUE (7.00)
STA 419+76	LT	NO U-TURN
STA 422+40	RT	MM PLAQUE (8.00)

REMOVING SIGNS

STA 0+00	LT	NO U-TURN
STA 0+00	RT	MM PLAQUE (0.00)
STA 4+75	LT	NO U-TURN
STA 52+80	RT	MM PLAQUE (1.00)
STA 102+43	LT	NO U-TURN
STA 105+60	RT	MM PLAQUE (2.00)
STA 158+40	RT	MM PLAQUE (3.00)
STA 211+20	RT	MM PLAQUE (4.00)
STA 221+23	LT	NO U-TURN
STA 264+00	RT	MM PLAQUE (5.00)
STA 307+30	LT	NO U-TURN
STA 316+80	RT	MM PLAQUE (6.00)
STA 348+48	LT	NO U-TURN
STA 369+60	RT	MM PLAQUE (7.00)
STA 419+76	LT	NO U-TURN
STA 422+40	RT	MM PLAQUE (8.00)

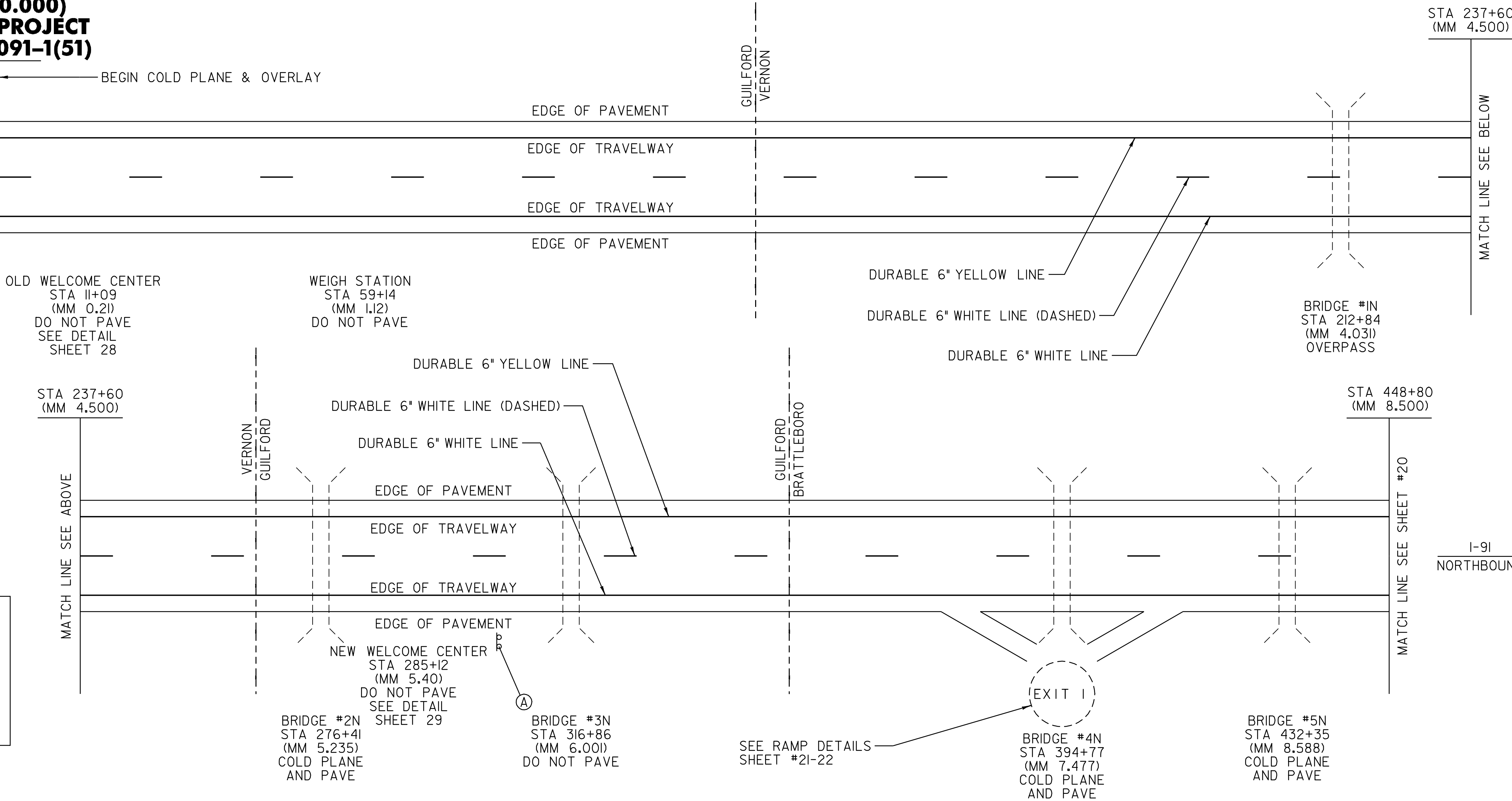
TRAFFIC SIGNS, TYPE B

STA 300+27 RT

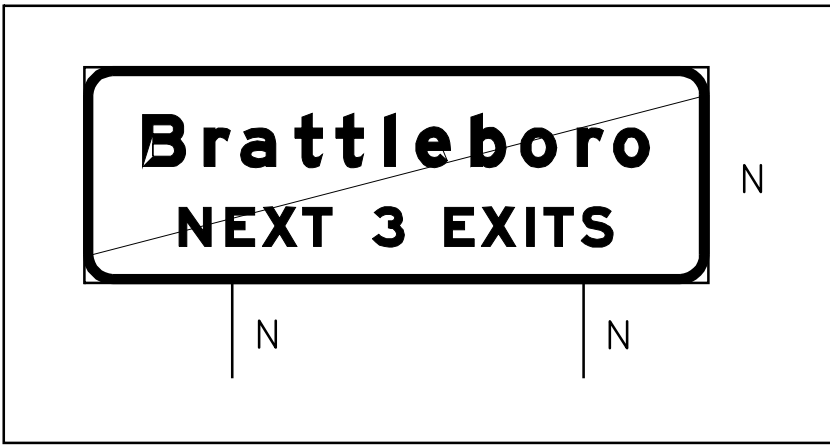
INTERSTATE ROUTE 91 NB

STA 0+00
(MM 0.000)
BEGIN PROJECT
AC IM 091-1(51)

I-91
NORTHBOUND



Ⓐ
STA 300+27 RT
(MM 5.687)
(SEE SHEET 30 FOR DETAILS)



LEGEND

R	=	REMOVE EXISTING
S	=	SALVAGE
R & S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
—	=	NEW RAIL
—	=	EXISTING RAIL

SEE PROJECT PAVING LIMITS TABLE ON
PROJECT TYPICAL SHEET I FOR ROADWAY
DIMENSIONS.

DATUM

VERTICAL _____
HORIZONTAL _____

NOT TO SCALE

PAVING
PROJECT
LAYOUT #1

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-1(51)

FILE NAME: 03A020p101.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 04-0398

PLOT DATE: 22-JAN-2009 13:3
DRAWN BY: JCS
CHECKED BY: NLL
SHEET 19 OF 69

TEMPORARY AND DURABLE 6" WHITE LINE
STA 448+80 TO 629+16 SOLID RT
STA 448+80 TO 629+16 DASHED CL

TEMPORARY AND DURABLE 6" YELLOW LINE
STA 448+80 TO 629+16 SOLID LT

604.4I2 REHAB DI, CB, OR MH
STA 459+74 RT CLASS I
STA 461+58 RT
STA 544+37 RT
STA 552+67 RT
STA 615+55 RT

CHANGING ELEV. OF DROP INLET,
CATCH BASIN OR MANHOLE
~~STA 459+74 RT~~
~~STA 461+58 RT~~
~~STA 462+63 RT~~
~~STA 544+37 RT~~
~~STA 552+67 RT~~
~~STA 615+55 RT~~

REHABING DI, CB OR MH
STA 464+01 RT, CLASS I
STA 465+27 RT, CLASS I
STA 466+76 RT, CLASS I

BITUMINOUS CONCRETE GUTTERS
AND TRAFFIC ISLANDS
STA 451+04 RT
STA 457+41 RT
STA 474+68 RT
STA 548+76 RT

REMOVAL & DISP. OF GUARDRAIL
STA 456+14 TO 457+92 LT (SB)
STA 459+76 TO 461+42 LT (NB)
STA 459+76 TO 461+42 LT (SB)
STA 461+06 TO 461+31 RT
STA 470+83 TO 471+08 RT
STA 593+21 TO 594+70 LT (NB)
STA 593+21 TO 594+70 LT (SB)
STA 614+12 TO 614+37 RT
STA 627+39 TO 627+64 RT

STEEL BEAM GUARDRAIL
STA 456+14 TO 463+01.5 LT (SB)
STA 456+64 TO 460+89 LT (NB)
STA 461+06 TO 461+18.5 RT
STA 470+83 TO 470+95.5 RT
STA 589+92 TO 591+04.5 LT (NB)
STA 591+85.5 TO 594+23 LT (NB)
STA 593+98 TO 598+23 LT (SB)
STA 614+12 TO 614+24.5 RT
STA 627+39 TO 627+51.5 RT

TRAILING END TERMINAL (TET)
STA 460+89 TO 461+01.5 LT (NB)
STA 461+18.5 TO 461+31 RT
STA 470+95.5 TO 471+08 RT
STA 591+04.5 TO 591+17 LT (NB)
STA 593+85.5 TO 593+98 LT (SB)
STA 594+23 TO 594+35.5 LT (NB)
STA 614+24.5 TO 614+37 RT
STA 627+51.5 TO 627+64 RT

MANUFACTURED TERMINAL SECTION (MTS)
STA 463+01.5 TO 463+39 LT (SB) (FLARED)
STA 589+54.5 TO 589+92 LT (NB) (FLARED)
STA 591+48 TO 591+85.5 LT (NB) (FLARED)
STA 598+23 TO 598+60.5 LT (SB) (FLARED)

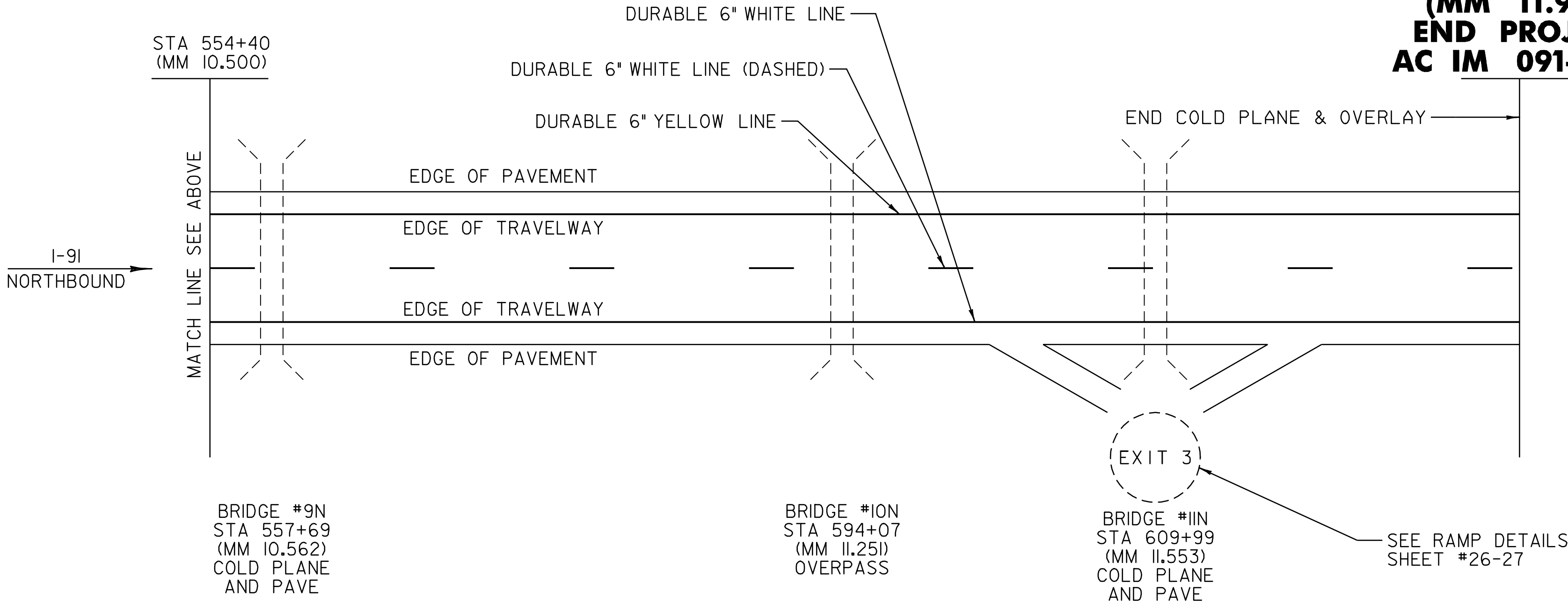
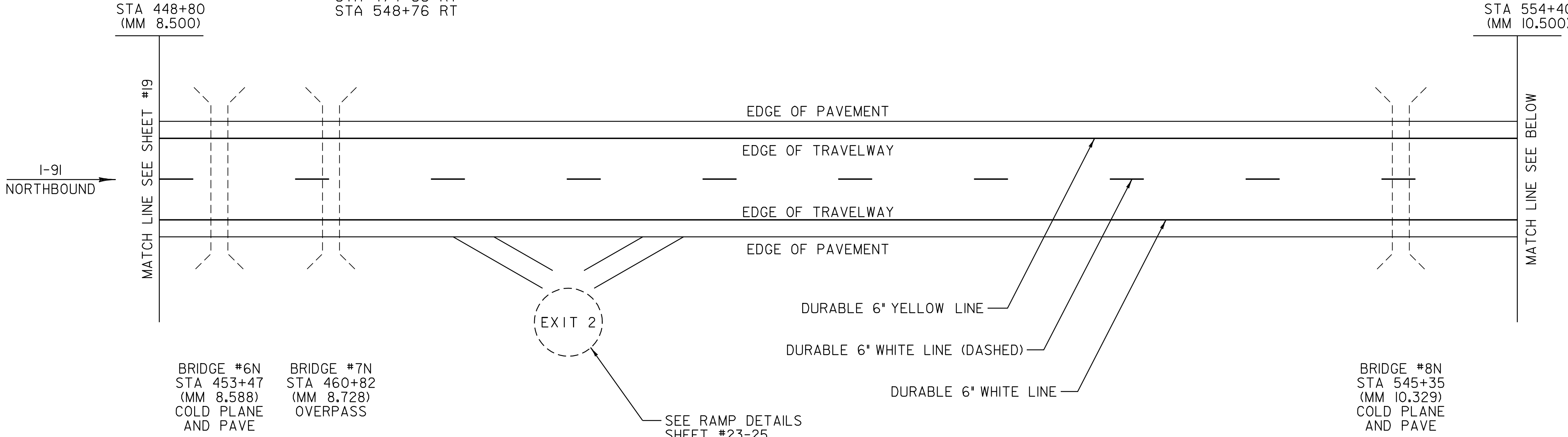
SNOW BARRIER - GALVANIZED

BRIDGE #7 (OVERPASS) 65 FT EACH SIDE
BRIDGE #10 (OVERPASS) 65 FT EACH SIDE

DELINEATORS
REFER TO STANDARDS E-197, E-198,
AND E-199 FOR PLACEMENT GUIDELINES

TRAFFIC SIGNS, TYPE A
STA 463+06 LT NO U-TURN
STA 475+20 RT MM PLAQUE (9.00)
STA 498+96 LT NO U-TURN
STA 528+00 RT MM PLAQUE (10.00)
STA 580+80 RT MM PLAQUE (11.00)
STA 591+36 LT NO U-TURN
STA 628+32 LT NO U-TURN

REMOVING SIGNS
STA 463+06 LT NO U-TURN
STA 475+20 RT MM PLAQUE (9.00)
STA 498+96 LT NO U-TURN
STA 528+00 RT MM PLAQUE (10.00)
STA 580+80 RT MM PLAQUE (11.00)
STA 591+36 LT NO U-TURN
STA 628+32 LT NO U-TURN



INTERSTATE ROUTE 91 NB
STA 629+16.48 → STA 630+38 END EXIT 3 ACCEL LN. EXT.
(MM 11.916)
END PROJECT
AC IM 091-1(51)

- LEGEND**
- R = REMOVE EXISTING
 - S = SALVAGE
 - R & S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - = EXISTING RAIL

DATUM
VERTICAL _____
HORIZONTAL _____

NOT TO SCALE

**PAVING
PROJECT
LAYOUT #2**

PROJECT NAME: GUILFORD-BRATTLEBORO	
PROJECT NUMBER: AC IM 091-1(51)	
FILE NAME: 03A020p102.1	PLOT DATE: 22-JAN-2009 13:3
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: CLD	CHECKED BY: NLL
CLD REF. NO. 04-0398	SHEET 20 OF 69

TEMPORARY AND DURABLE 6" WHITE LINE
OFF RAMP E 0+00 TO 0+17 SOLID RT (ISLAND)
OFF RAMP E 0+00 TO 9+13 SOLID LT
I-91 383+12 TO 385+54 DOTTED RT

TEMPORARY AND DURABLE 6" YELLOW LINE
OFF RAMP E 0+00 TO 0+17 SOLID LT
OFF RAMP E 0+28 TO 9+14 SOLID RT

TEMPORARY AND DURABLE 12" WHITE LINE
OFF RAMP E 0+17 TO 0+27 SOLID LT
OFF RAMP E 0+17 TO 0+27 SOLID LT
OFF RAMP E 9+14 TO 10+53 SOLID RT
GORE STRIPES 9+14 TO 10+53 SOLID RT
I-91 385+54 TO 386+94 SOLID LT

TEMPORARY AND DURABLE LETTER OR SYMBOL
OFF RAMP E 0+14 LT - "STOP"
OFF RAMP E 0+30 RT - "STOP"
OFF RAMP E 2+58 CL - WRONG WAY ARROW
OFF RAMP E 7+12 CL - "AHEAD"
OFF RAMP E 7+52 CL - "STOP"

TEMPORARY AND DURABLE 24" STOP BAR
OFF RAMP E 0+02 TO 0+06 LT
OFF RAMP E 0+12 TO 0+25 RT

REHABING DI,CB OR MH
OFF RAMP E - 0+40 RT, CLASS I

BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS

OFF RAMP E 1+52 RT (PAVE ONLY)
OFF RAMP E 2+52 RT (PAVE ONLY)
OFF RAMP E 3+52 RT (PAVE ONLY)
OFF RAMP E 4+63 RT (PAVE ONLY)

REMOVAL & DISP.OF GUARDRAIL

OFF RAMP E 0+20 TO 0+45 LT
OFF RAMP E 1+13 TO 5+39 RT

STEEL BEAM GUARDRAIL (GALV.)

OFF RAMP E 0+32.5 TO 0+45 LT
OFF RAMP E 1+26 TO 5+01 RT

TRAILING END TERMINAL (TET)

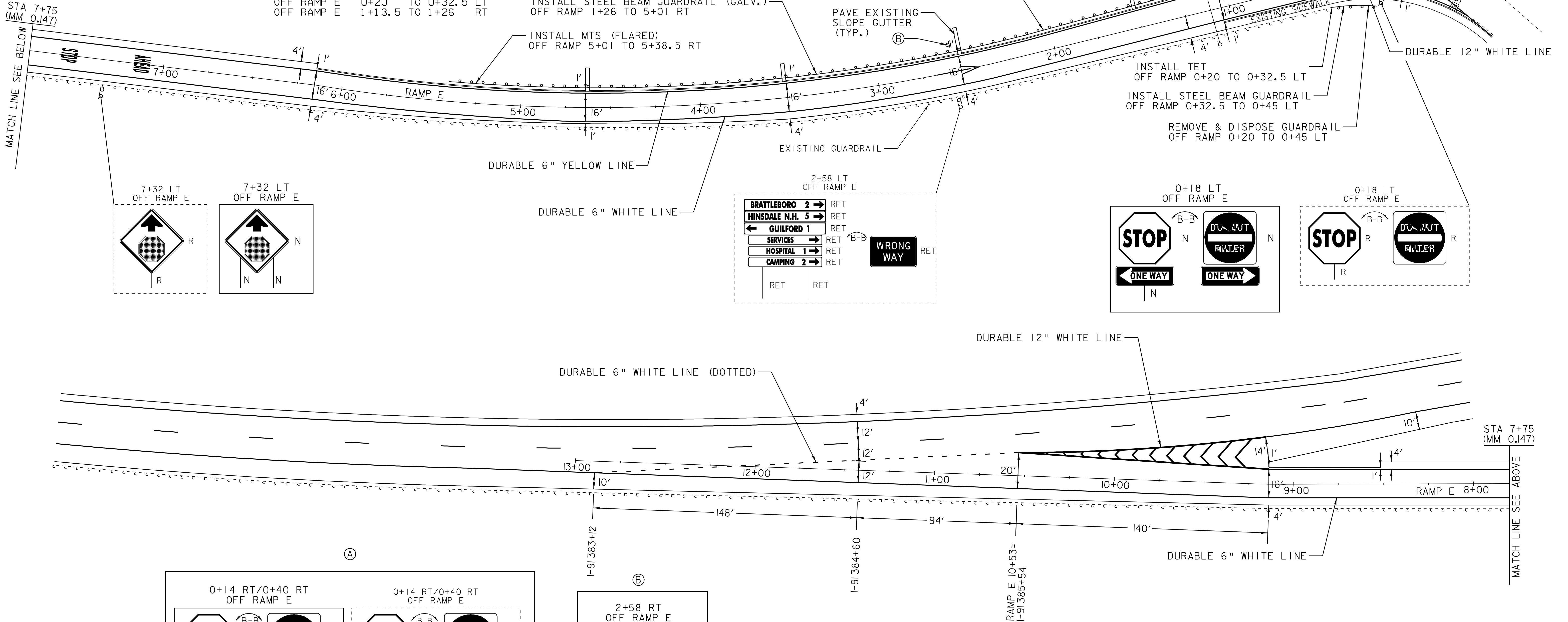
OFF RAMP E 0+20 TO 0+32.5 LT
OFF RAMP E 1+13.5 TO 1+26 RT

MANUFACTURED TERMINAL SECTION (MTS)
OFF RAMP 5+01 TO 5+38.5 RT (FLARED)
DELINEATORS
REFER TO STANDARDS E-197, E-198,
AND E-199 FOR PLACEMENT GUIDELINES

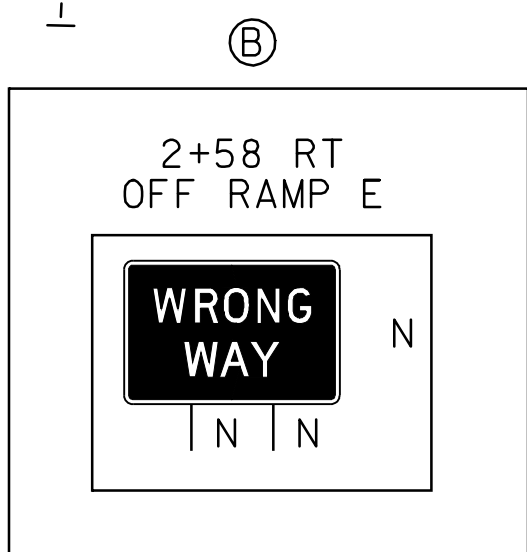
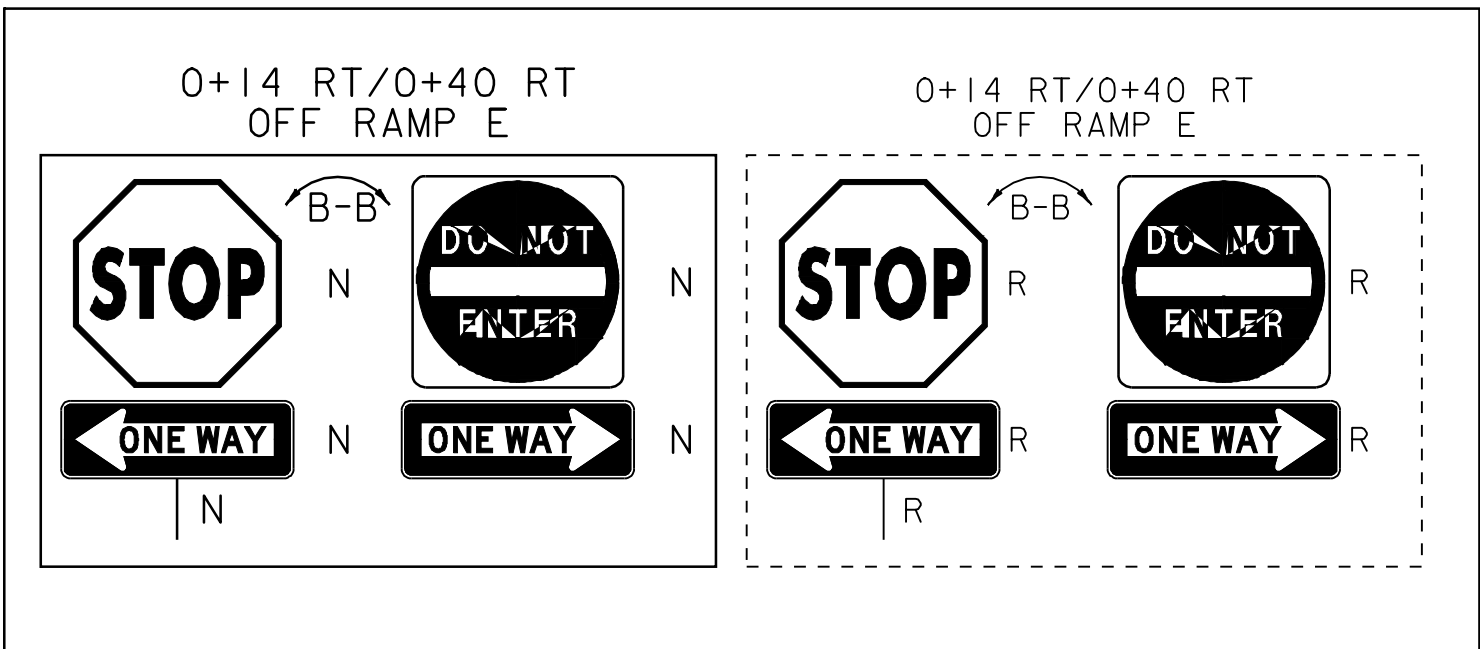
REMOVING SIGNS
AS SHOWN - 11

EXIT 1 - RAMP E NORTHBOUND OFF RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



DATUM
VERTICAL _____
HORIZONTAL _____



NOT TO SCALE

- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGE
 - R & S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - - - = EXISTING RAIL

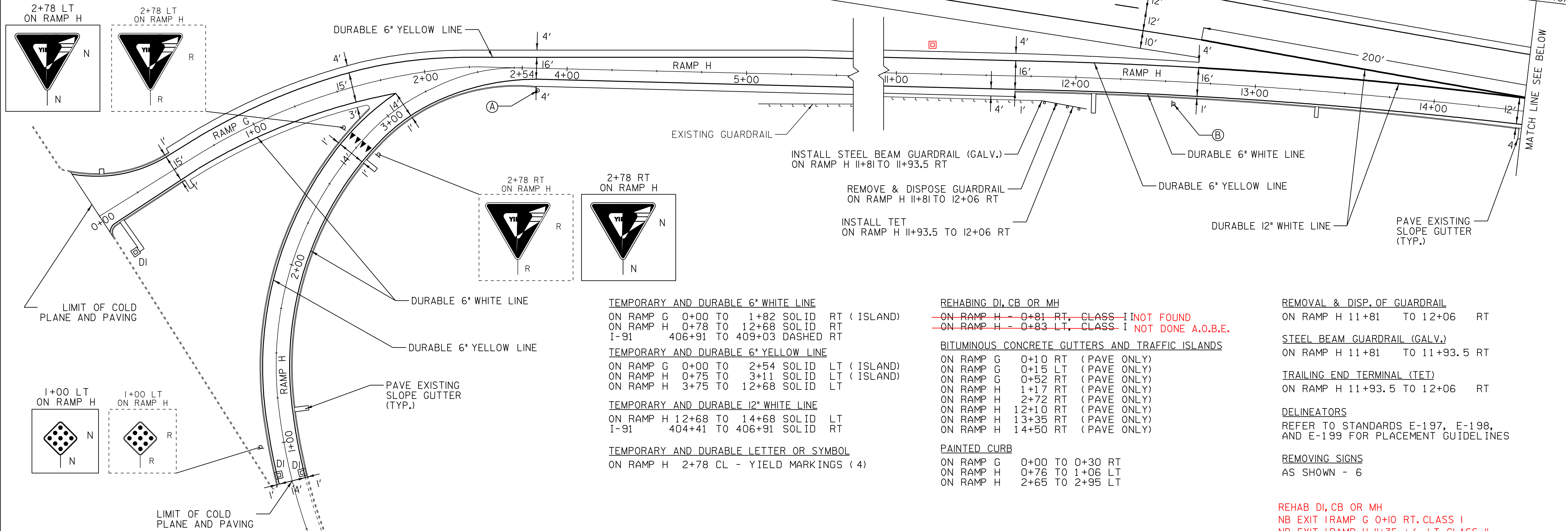
RAMP DETAIL #1

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-K(51)

FILE NAME: 03A020r.mpl.i
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 04-0398
PLOT DATE: 22-JAN-2009 13:3
DRAWN BY: JCS
CHECKED BY: NLL
SHEET 21 OF 69

EXIT 1 - RAMPS G & H
NORTHBOUND ON RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



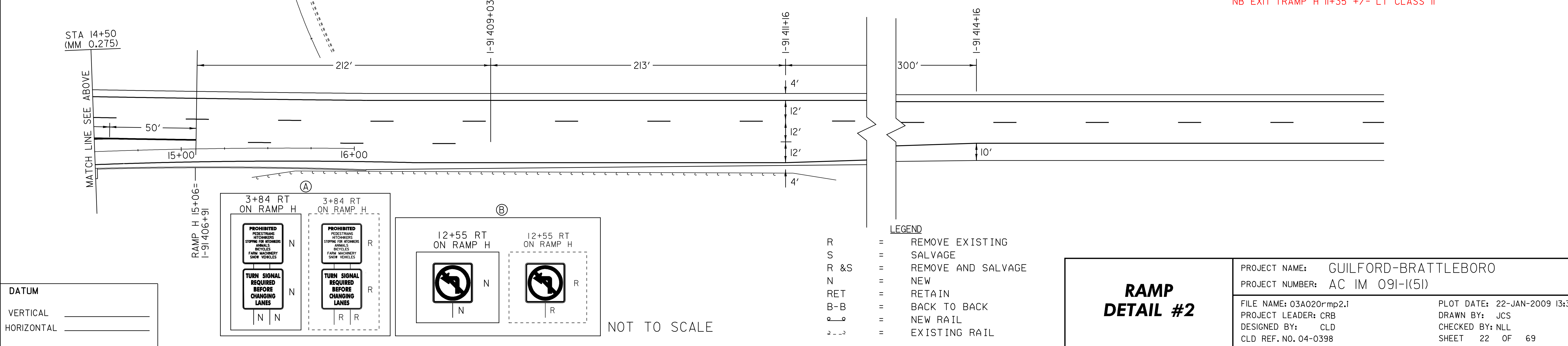
- TEMPORARY AND DURABLE 6" WHITE LINE
ON RAMP G 0+00 TO 1+82 SOLID RT (ISLAND)
ON RAMP H 0+78 TO 12+68 SOLID LT
I-91 406+91 TO 409+03 DASHED RT
- TEMPORARY AND DURABLE 6" YELLOW LINE
ON RAMP G 0+00 TO 2+54 SOLID LT (ISLAND)
ON RAMP H 0+75 TO 3+11 SOLID LT (ISLAND)
ON RAMP H 3+75 TO 12+68 SOLID LT
- TEMPORARY AND DURABLE 12" WHITE LINE
ON RAMP H 12+68 TO 14+68 SOLID LT
I-91 404+41 TO 406+91 SOLID RT
- TEMPORARY AND DURABLE LETTER OR SYMBOL
ON RAMP H 2+78 CL - YIELD MARKINGS (4)

- REHABING DI, CB OR MH
~~ON RAMP H 0+81 RT, CLASS I NOT FOUND~~
~~ON RAMP H 0+83 LT, CLASS I NOT DONE A.O.B.E.~~
- BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
ON RAMP G 0+10 RT (PAVE ONLY)
ON RAMP G 0+15 LT (PAVE ONLY)
ON RAMP G 0+52 RT (PAVE ONLY)
ON RAMP H 1+17 RT (PAVE ONLY)
ON RAMP H 2+72 RT (PAVE ONLY)
ON RAMP H 12+10 RT (PAVE ONLY)
ON RAMP H 13+35 RT (PAVE ONLY)
ON RAMP H 14+50 RT (PAVE ONLY)

- REMOVAL & DISP.OF GUARDRAIL
ON RAMP H 11+81 TO 12+06 RT
- STEEL BEAM GUARDRAIL (GALV.)
ON RAMP H 11+81 TO 11+93.5 RT
- TRAILING END TERMINAL (TET)
ON RAMP H 11+93.5 TO 12+06 RT
- DELINEATORS
REFER TO STANDARDS E-197, E-198,
AND E-199 FOR PLACEMENT GUIDELINES

- PAINTED CURB
ON RAMP G 0+00 TO 0+30 RT
ON RAMP H 0+76 TO 1+06 LT
ON RAMP H 2+65 TO 2+95 LT

- REHAB DI, CB OR MH
NB EXIT 1 RAMP G 0+10 RT, CLASS I
NB EXIT 1 RAMP H 11+35 +/- LT CLASS II



RAMP
DETAIL #2

PROJECT NAME: GUILFORD-BRATTLEBORO	PLOT DATE: 22-JAN-2009 13:3
PROJECT NUMBER: AC IM 091-1(51)	DRAWN BY: JCS
FILE NAME: 03A020rmp2.1	CHECKED BY: NLL
PROJECT LEADER: CRB	CLD REF. NO. 04-0398
DESIGNED BY: CLD	SHEET 22 OF 69

TEMPORARY AND DURABLE 6" WHITE LINE
ON RAMP A 0+00 TO 0+40 SOLID RT (ISLAND)
OFF RAMP B 0+00 TO 11+00 SOLID LT
ON RAMP A 0+13 TO 11+00 SOLID RT

TEMPORARY AND DURABLE 6" YELLOW LINE
ON RAMP A 0+04 TO 0+40 SOLID RT (ISLAND)
ON RAMP A 0+04 TO 11+00 SOLID RT
OFF RAMP B 0+04 TO 11+00 SOLID LT

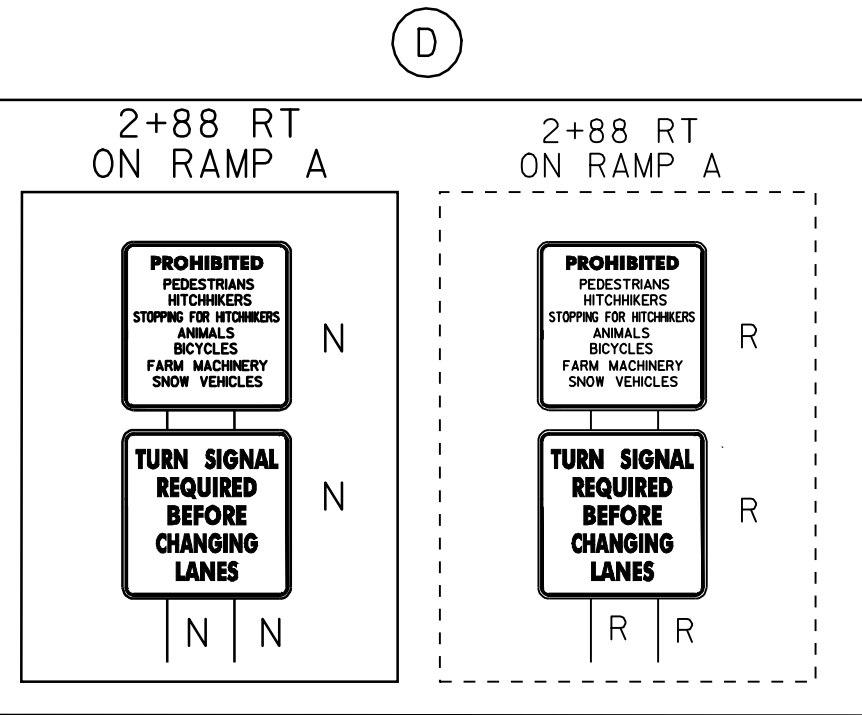
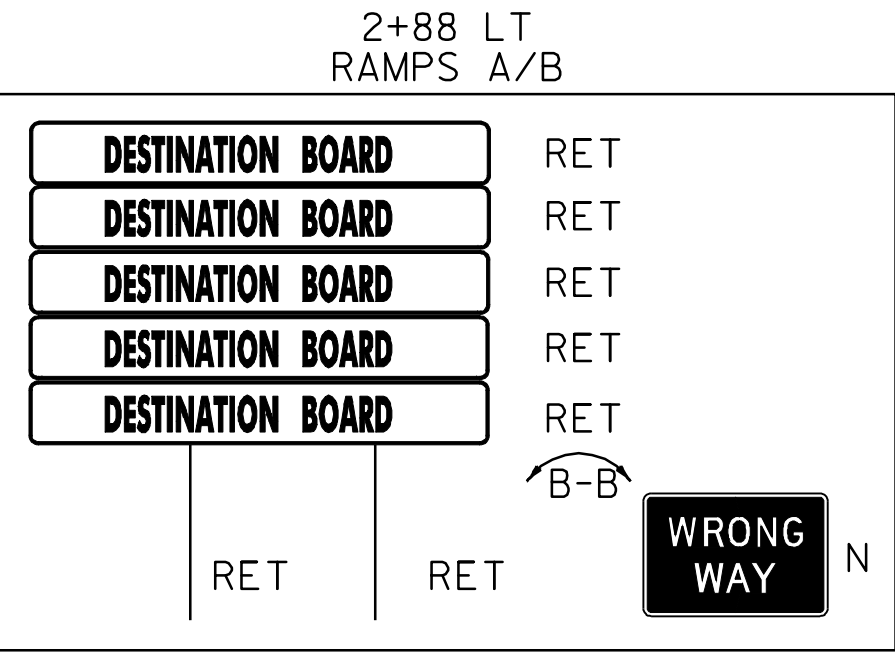
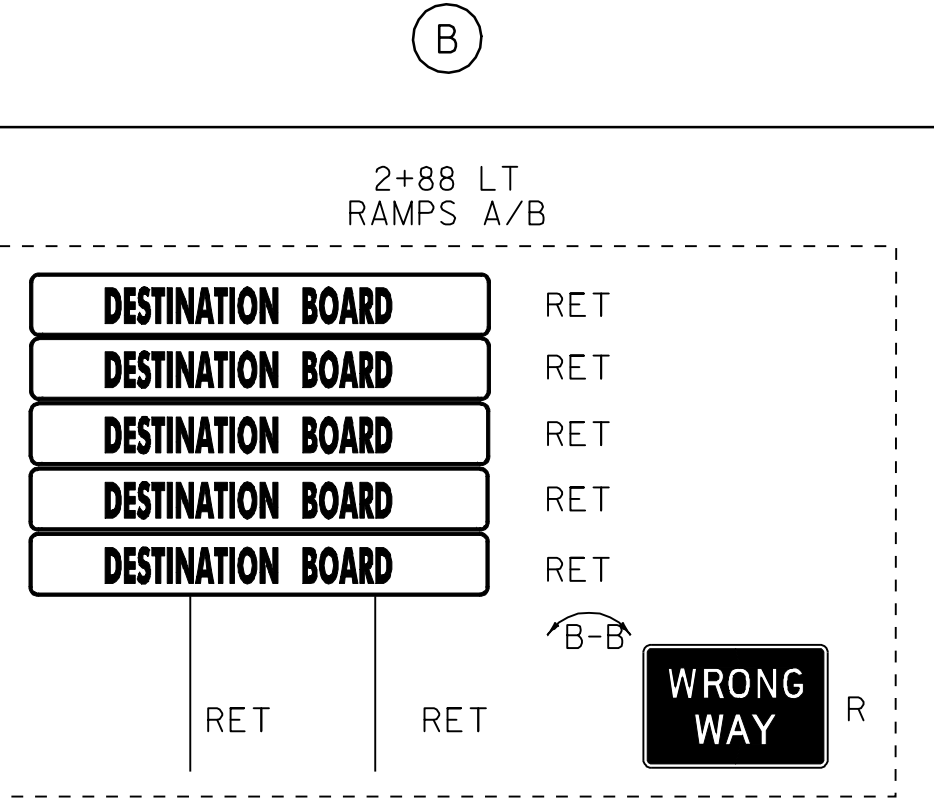
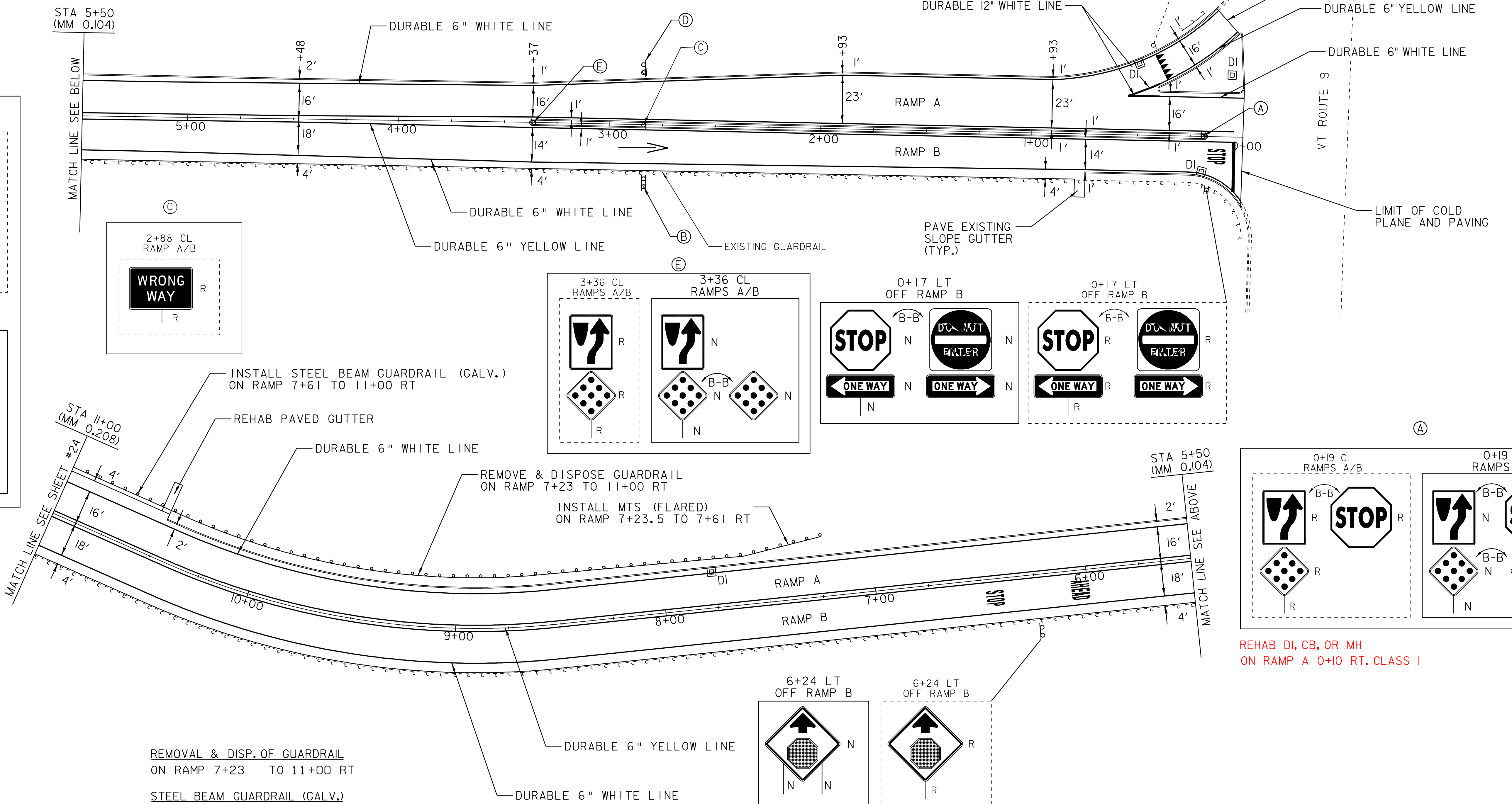
TEMPORARY AND DURABLE 24" STOP BAR
OFF RAMP B 0+04 LT

TEMPORARY AND DURABLE LETTER OR SYMBOL
OFF RAMP B 0+12 LT - " STOP" OFF RAMP
ON RAMP A 0+26 TO 0+38 RT - YIELD MARKINGS (5)
OFF RAMP B 2+88 LT - WRONG WAY ARROW
OFF RAMP B 6+04 LT - " AHEAD"
OFF RAMP B 6+44 LT - " STOP"

TEMPORARY AND DURABLE 12" WHITE LINE
ON RAMP A 0+40 TO 0+52 SOLID RT
ON RAMP A 0+40 TO 0+52 SOLID RT

EXIT 2 - RAMPS A & B
NORTHBOUND ON & OFF RAMPS

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



REHABING DI, CB OR MH
ON RAMP A - 0+49 RT, CLASS I
OFF RAMP B - 0+19 LT, CLASS I
ON RAMP A - 7+76 RT, CLASS I

BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
OFF RAMP B - 0+77 LT (PAVE ONLY)
ON RAMP A - 10+51 RT (REHAB)

PAINTED CURB
ON RAMP A 0+00 TO 0+31 RT
ON RAMP A 0+13 TO 0+43 RT
OFF RAMP B 0+13 TO 0+43 LT
ON RAMP A 3+05 TO 3+35 RT
OFF RAMP B 3+05 TO 3+35 LT

REMOVAL & DISP.OF GUARDRAIL
ON RAMP 7+23 TO 11+00 RT

STEEL BEAM GUARDRAIL (GALV.)
ON RAMP 7+61 TO 11+00 RT

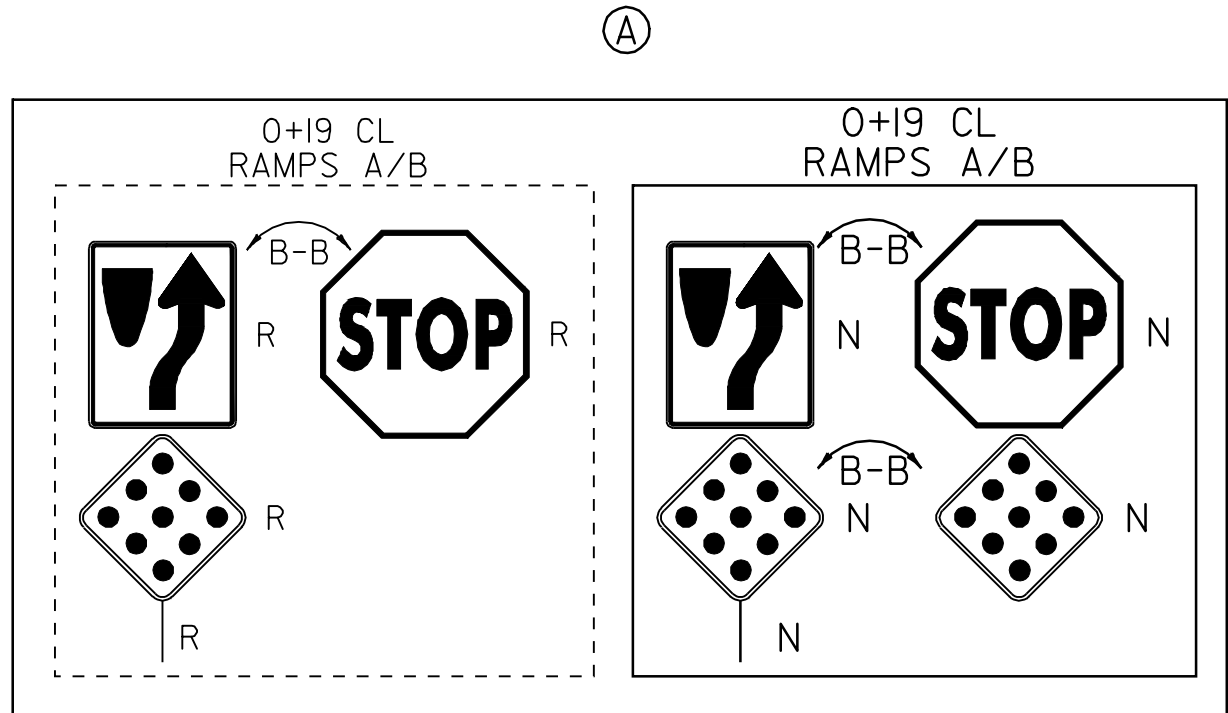
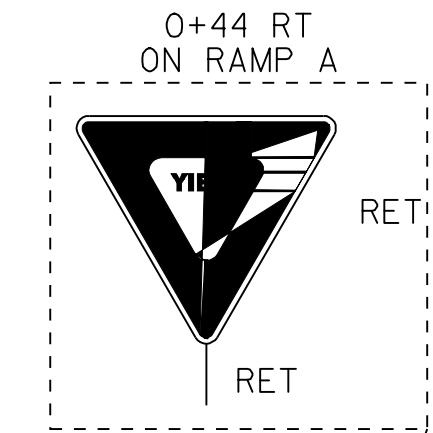
MANUFACTURED TERMINAL SECTION (MTS)
ON RAMP 7+23.5 TO 7+61 RT (FLARED)

DELINEATORS
REFER TO STANDARDS E-197, E-198,
AND E-199 FOR PLACEMENT GUIDELINES

REMOVING SIGNS
AS SHOWN - 14

NOT TO SCALE

LEGEND
R = REMOVE EXISTING
S = SALVAGE
R & S = REMOVE AND SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
= NEW RAIL
= EXISTING RAIL



REHAB DI, CB, OR MH
ON RAMP A 0+10 RT, CLASS I

RAMP
DETAIL #3

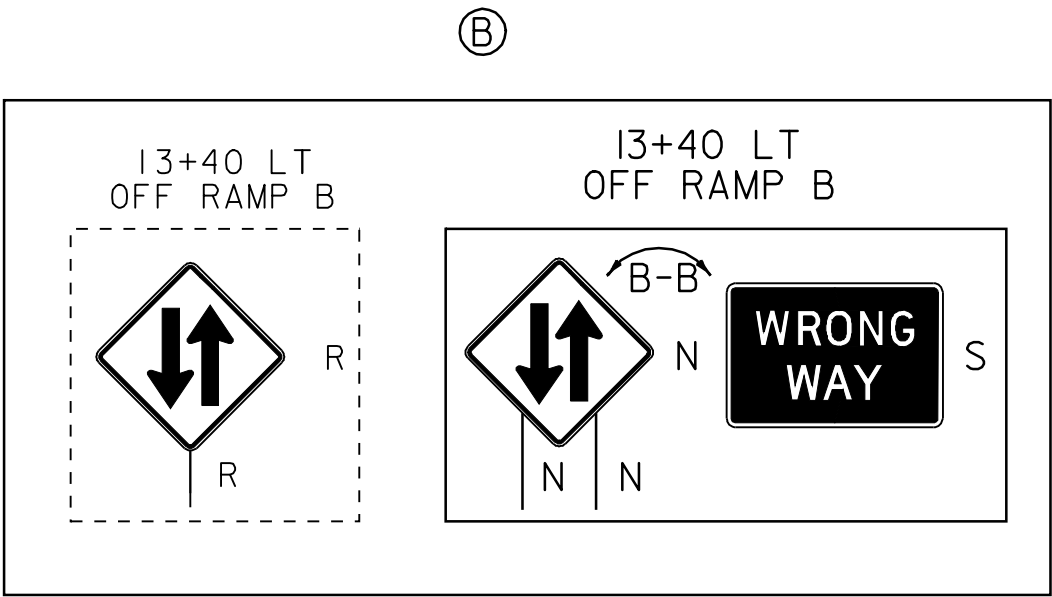
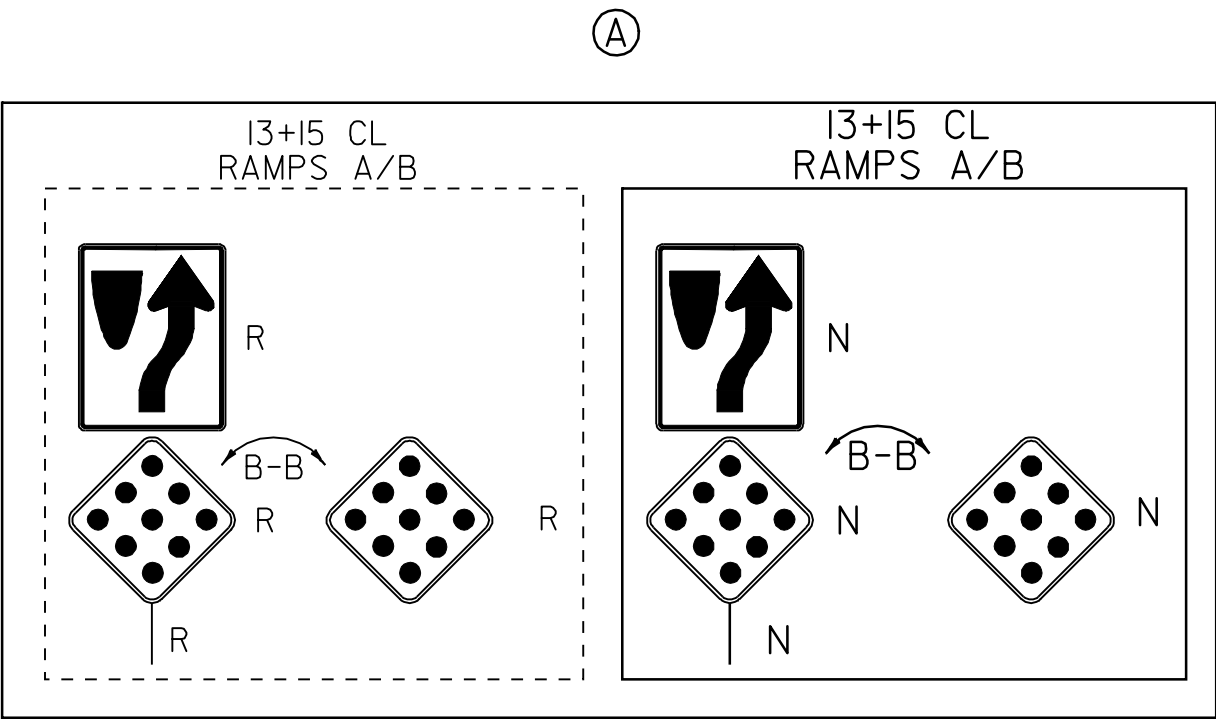
PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-I(51)

FILE NAME: 03A020rmp3.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 04-0398

PLOT DATE: 22-JAN-2009 13:3
DRAWN BY: JCS
CHECKED BY: NLL
SHEET 23 OF 69

EXIT 2 - RAMPS A & B
NORTHBOUND ON & OFF RAMPS

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



PAINTED CURB

ON RAMP A 13+11 TO 13+41 RT
OFF RAMP B 13+11 TO 13+41 LT

REMOVAL & DISP. OF GUARDRAIL

ON RAMP A 11+00 TO 11+92 RT

STEEL BEAM GUARDRAIL (GALV.)

ON RAMP A 11+00 TO 11+73.5 RT

MANUFACTURED TERMINAL SECTION (MTS)

ON RAMP A 11+73.5 TO 12+11 RT (FLARED)

REPLACE EXISTING
MELT W/MTS
EXISTING GUARDRAIL

ERECTING SALVAGED SIGNS

AS SHOWN - 1

REMOVING SIGNS

AS SHOWN - 6

TEMPORARY AND DURABLE 6" WHITE LINE

OFF RAMP B 0+00 TO 7+03 SOLID LT
ON RAMP A 0+00 TO 8+75 SOLID RT
ON RAMP A 11+00 TO 13+64 SOLID RT
OFF RAMP B 11+00 TO 13+64 SOLID LT
I-91 472+92 TO 474+92 DASHED RT
I-91 468+52 TO 472+92 DOTTED RT

TEMPORARY AND DURABLE 6" YELLOW LINE

ON RAMP A 0+00 TO 8+75 SOLID LT
OFF RAMP B 0+00 TO 7+03 SOLID RT
ON RAMP A 10+75 TO 13+64 SOLID RT
OFF RAMP B 10+75 TO 13+64 SOLID LT

TEMPORARY AND DURABLE 12" WHITE LINE

OFF RAMP B 7+03 TO 8+00 SOLID RT
GORE STRIPES 7+03 TO 7+75 SOLID RT
I-91 474+92 TO 475+92 SOLID RT

REHABING DI, CB, OR MH

ON RAMP A - 13+17 RT, CLASS XX

BITUMINOUS CONCRETE GUTTERS
AND TRAFFIC ISLANDS

OFF RAMP B - 4+13 LT (PAVE ONLY)
OFF RAMP B - 5+64 LT (PAVE ONLY)
OFF RAMP B - 6+82 LT (PAVE ONLY)
OFF RAMP B - 8+12 LT (PAVE ONLY)
OFF RAMP B - 13+12 LT (PAVE ONLY)

RAMP B 8+00 =
I-91 474+92

STA 469+40
(MM 8.890)

MATCH LINE SEE BELOW

I-91 468+52

STA 469+40
(MM 8.890)

MATCH LINE SEE ABOVE

LEGEND

R = REMOVE EXISTING
S = SALVAGE
R & S = REMOVE AND SALVAGE
N = NEW
RET = RETAIN
B-B = BACK TO BACK
= NEW RAIL
= EXISTING RAIL

RAMP
DETAIL #4

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-I(51)

FILE NAME: 03A020rmp4.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 04-0398

PLOT DATE: 22-JAN-2009 13:3
DRAWN BY: JCS
CHECKED BY: NLL
SHEET 24 OF 69

NOT TO SCALE

ON RAMP A	8+75	T0	11+05	SOLID	RT
I-91	485+65	T0	490+65	DASHED	LT

ON RAMP A 8+75 TO 11+05 SOLID LT

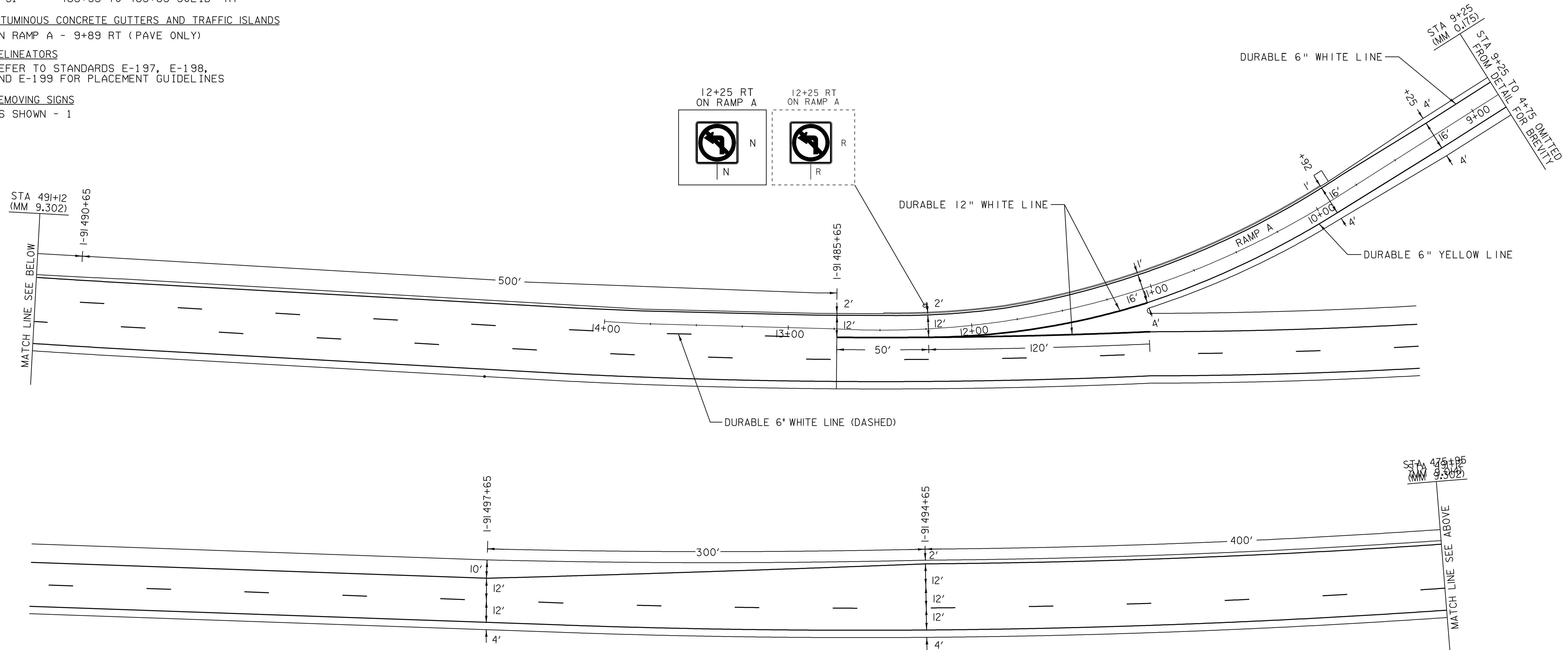
ON RAMP A	11+05	T0	11+77	SOLID	LT
I-91	483+95	T0	485+65	SOLID	RT

ON RAMP A - 9+89 RT (PAVE ONLY)

REFER TO STANDARDS E-197, E-198,
AND E-199 FOR PLACEMENT GUIDELINES

AS SHOWN - 1

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



LEGEND

R	=	REMOVE EXISTING
S	=	SALVAGE
R & S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
	=	NEW RAIL
	=	EXISTING RAIL

RAMP DETAIL #5

PROJECT NAME:	GUILFORD-BRATTLEBORO
PROJECT NUMBER:	AC IM 09I-1(5I)

FILE NAME: 03A020rmp5.i	PLOT DATE: 22-JAN-2009 13:3
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: CLD	CHECKED BY: NLL
CLD REF. NO. 04-0398	SHEET 25 OF 69

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES

TEMPORARY AND DURABLE 6" YELLOW LINE				
OFF RAMP C	1+15	TO	6+61	SOLID RT
TEMPORARY AND DURABLE 12" WHITE LINE				
ON RAMP C	6+61	TO	8+80	SOLID RT
CORE STRIPE	6+61	TO	8+80	SOLID RT
I-91	602+79	TO	604+99	SOLID RT

~~OFF RAMP C - 4+54 LT, CLASS I I~~
~~OFF RAMP C - 6+05 LT, CLASS I~~
~~OFF RAMP C - 7+55 LT, CLASS I I~~
~~OFF RAMP C - 9+04 LT, CLASS I~~

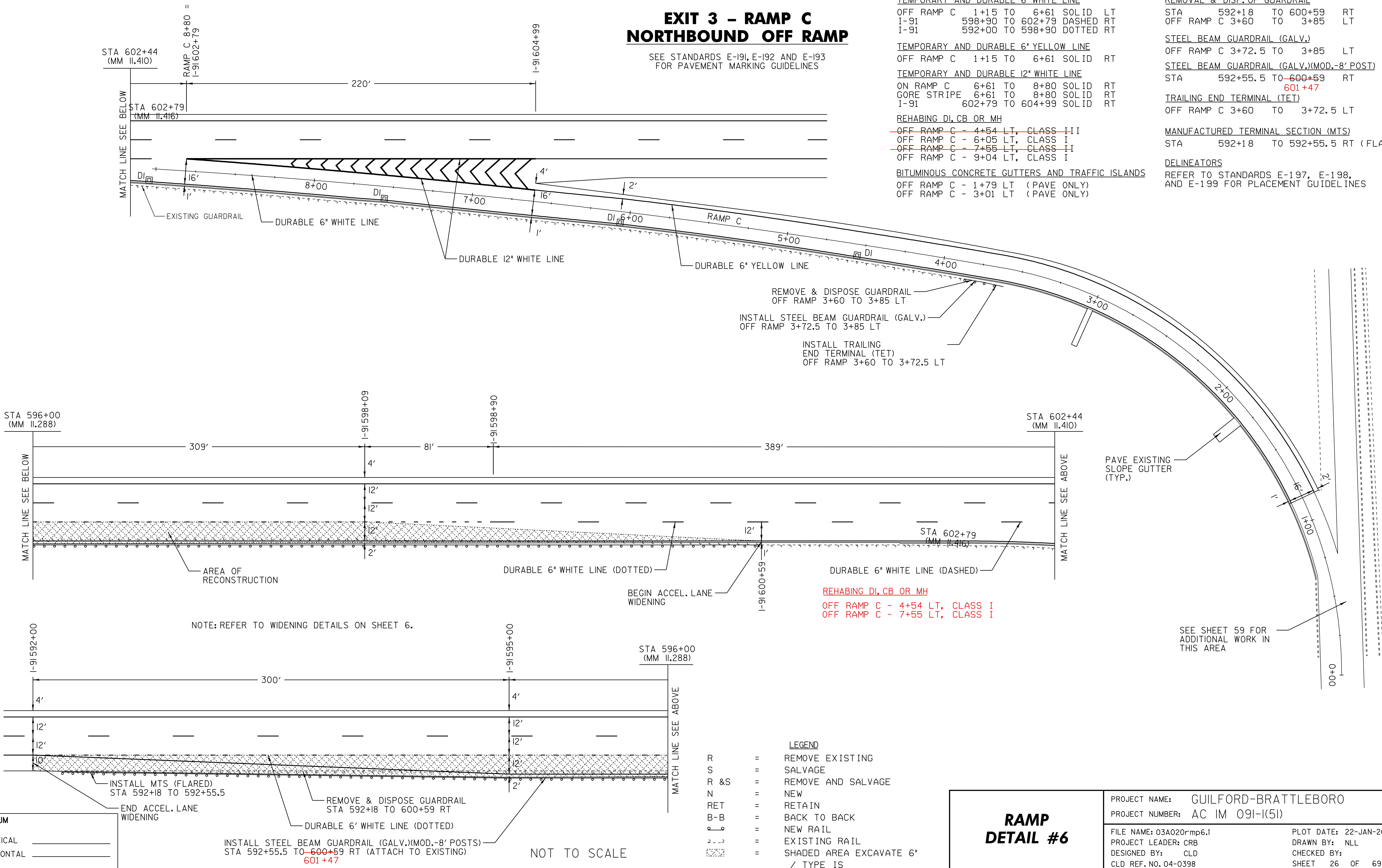
REMOVAL & DISP. OF GUARDRAIL				
STA	592+18	TO	600+59	RT
OFF RAMP	C 3+60	TO	3+85	LT

STEEL BEAM GUARDRAIL (GALV.)
OFF RAMP C 3+72.5 TO 3+85 LT
STEEL BEAM GUARDRAIL (GALV.)(MOD.-8' POST)
STA 592+55.5 TO ~~600+59~~ RT

TRAILING END TERMINAL (TET)
OFF RAMP C 3+60 TO 3+72.5 LT

MANUFACTURED TERMINAL SECTION (MTS)
STA 592+18 TO 592+55.5 RT (FLARED)

DELINEATORS
REFER TO STANDARDS E-197, E-198,
AND E-199 FOR PLACEMENT GUIDELINES



TEMPORARY AND DURABLE 6" WHITE LINE
ON RAMP D 1+39 TO 6+35 SOLID RT
I-91 617+35 TO 623+35 DASHED RT

TEMPORARY AND DURABLE 6" YELLOW LINE
ON RAMP D 1+39 TO 6+35 SOLID LT

TEMPORARY AND DURABLE 12" WHITE LINE
ON RAMP D 6+35 TO 8+34 SOLID LT
I-91 614+85 TO 617+35 SOLID RT

BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS

ON RAMP D 1+78 RT (PAVE ONLY)
ON RAMP D 2+73 RT (PAVE ONLY)
I-91 619+33 RT (PAVE ONLY)

REMOVING AND RESETTING CURB

~~I-91 615+61 TO 618+35 RT NOT DONE~~
~~(NO EXISTING REVEAL) 3' - 4" REVEAL~~

REMOVAL AND DISP. OF GUARDRAIL

I-91 622+35 TO 627+38 RT

STEEL BEAM GUARDRAIL (GALV.) (MOD.-8' POSTS)

I-91 622+35 TO 627+25.5 RT

TRAILING END TERMINAL (TET)

I-91 627+25.5 TO 627+38 RT

DELINEATORS

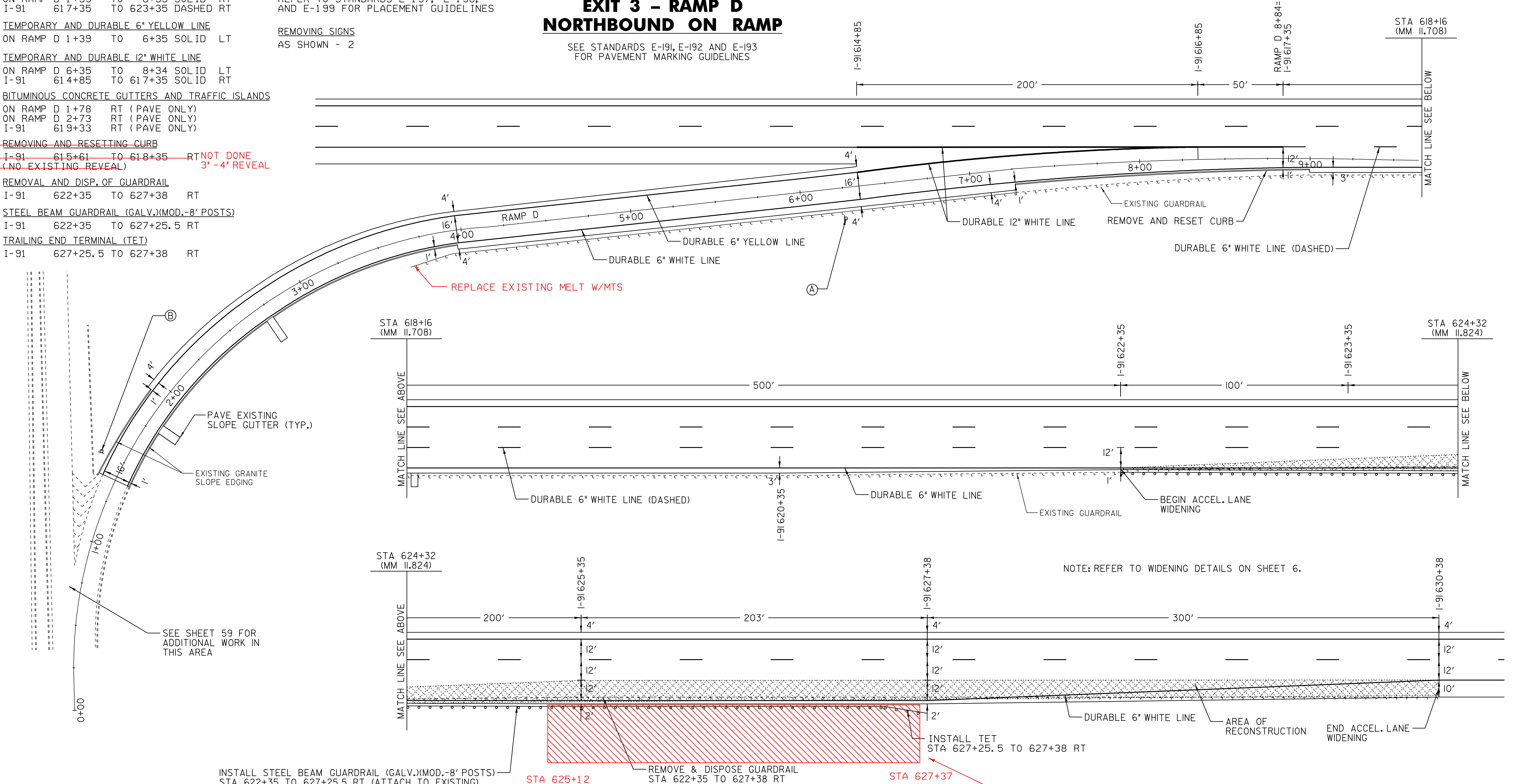
REFER TO STANDARDS E-197, E-198,
AND E-199 FOR PLACEMENT GUIDELINES

REMOVING SIGNS

AS SHOWN - 2

EXIT 3 - RAMP D NORTHBOUND ON RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



INSTALL STEEL BEAM GUARDRAIL (GALV.) (MOD.-8' POSTS)
STA 622+35 TO 627+25.5 RT (ATTACH TO EXISTING)

STA 625+12

REMOVE & DISPOSE GUARDRAIL
STA 622+35 TO 627+38 RT

STA 627+37

LEGEND

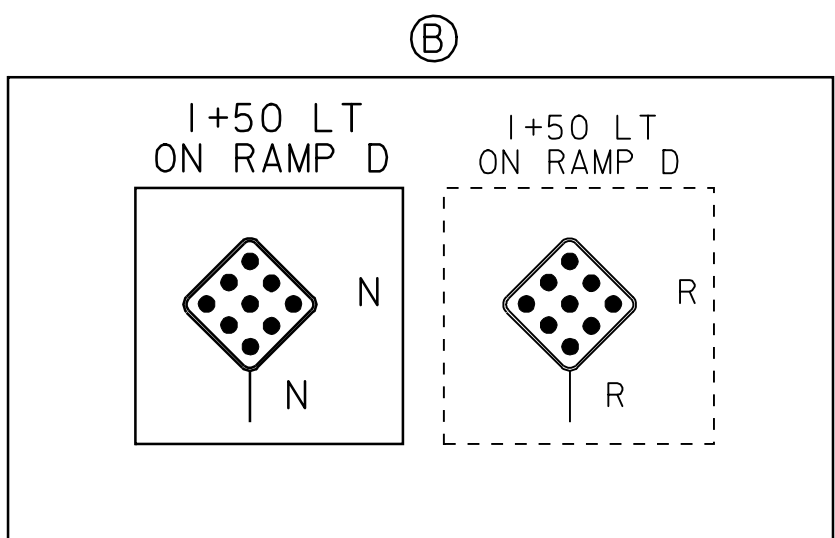
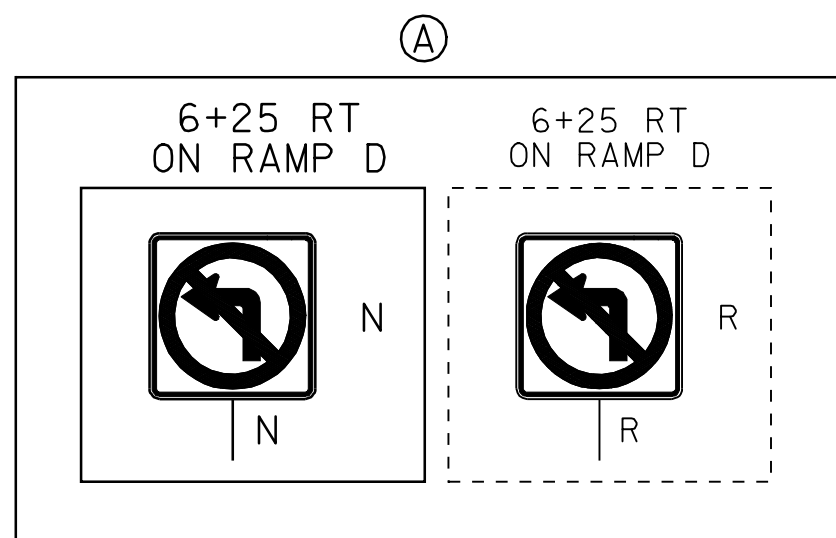
- R = REMOVE EXISTING
- S = SALVAGE
- R & S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = NEW RAIL
- - - = EXISTING RAIL
- [Hatched] = SHADED AREA EXCAVATE 6' / TYPE IS

NB I-91 C.O. #3 ITEM 900.508 STONE FILL TYPE III MOD.
REFERENCE COMPUTATION BINDER PAGE 900.508-1 FOR ASBUILT
INFO. AND CALCULATIONS.
TOTAL 276.85 CY.

DATUM

VERTICAL

HORIZONTAL



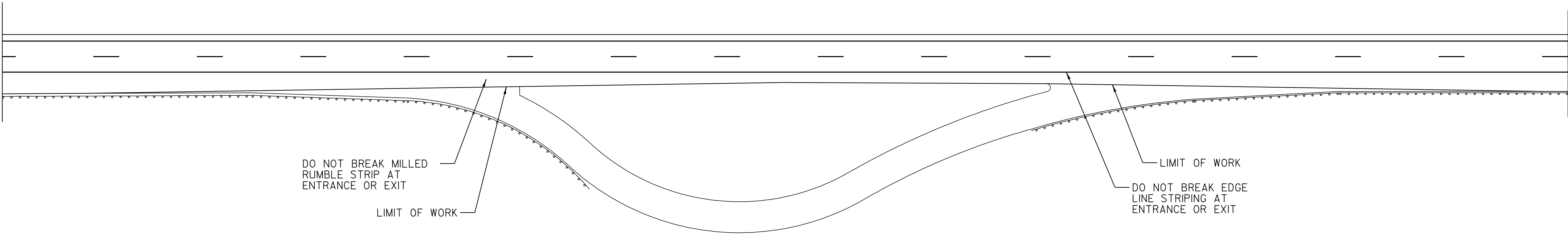
NOT TO SCALE

RAMP DETAIL #7

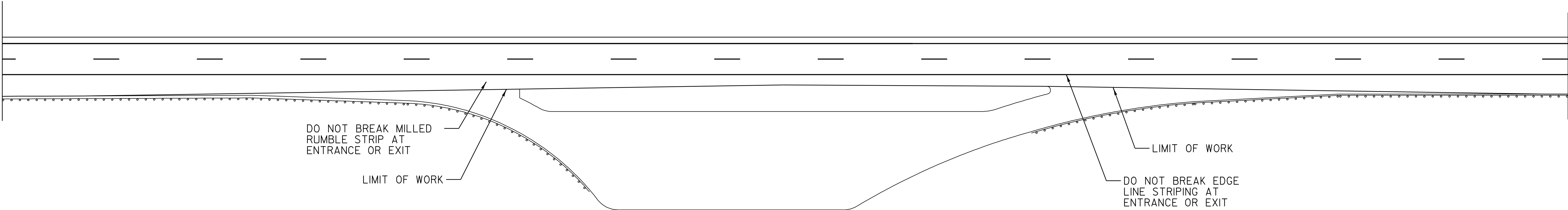
PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-I(51)

FILE NAME: 03A020rmp7.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 04-0398
PLOT DATE: 22-JAN-2009 13:3
DRAWN BY: JCS
CHECKED BY: NLL
SHEET 27 OF 69

OLD WELCOME CENTER
STATION 11+09
(MM 0.21)



WEIGH STATION
STATION 59+14
(MM 1.12)



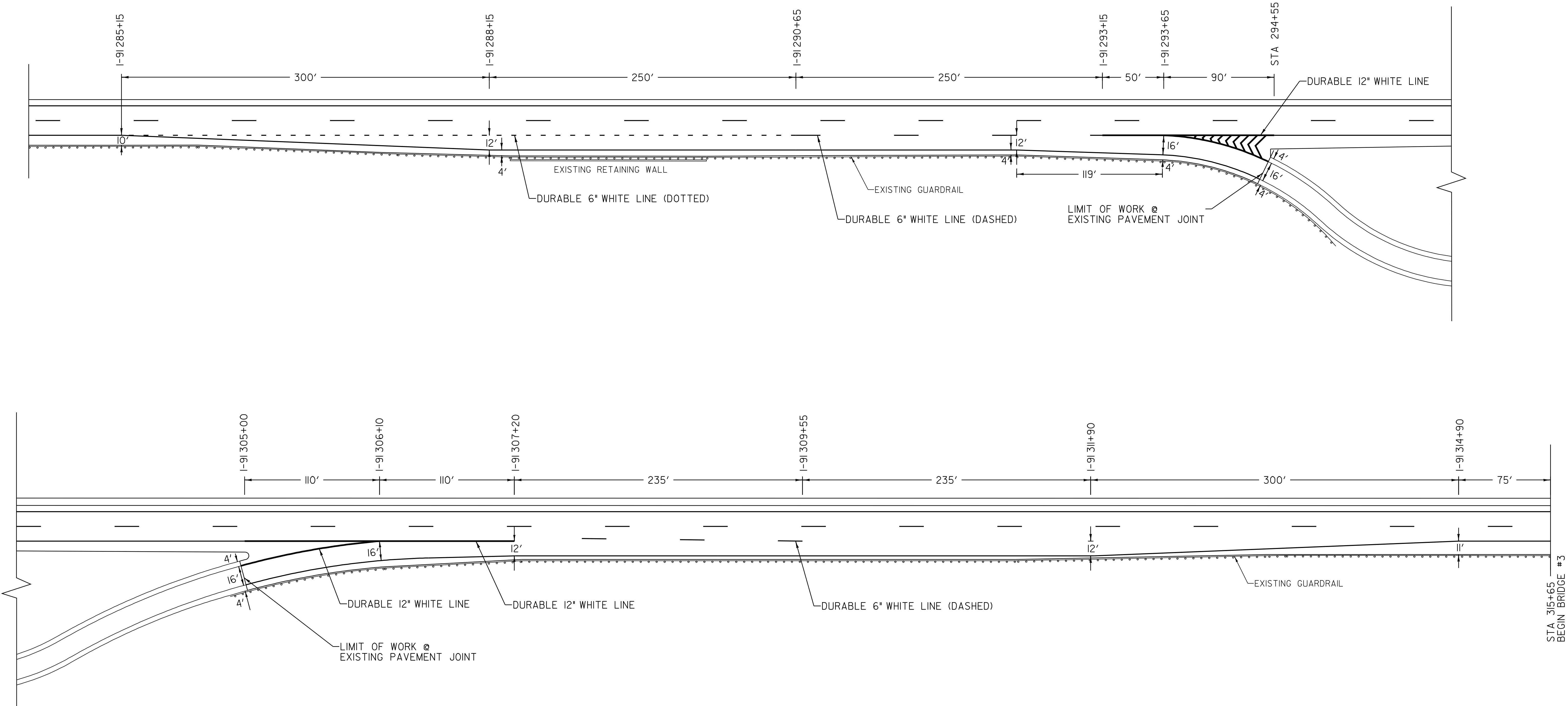
TEMPORARY AND DURABLE 6" WHITE LINE

I-91 285+15 TO 290+65 DOTTED RT
I-91 290+65 TO 293+15 DASHED RT
I-91 307+20 TO 309+55 DASHED RT

TEMPORARY AND DURABLE 12" WHITE LINE

I-91 293+15 TO 294+55 SOL ID RT
I-91 293+65 TO 294+55 SOL ID RT
GORE STRIP 293+65 TO 294+55 SOL ID RT
I-91 305+00 TO 306+10 SOL ID RT
I-91 305+00 TO 307+20 SOL ID RT

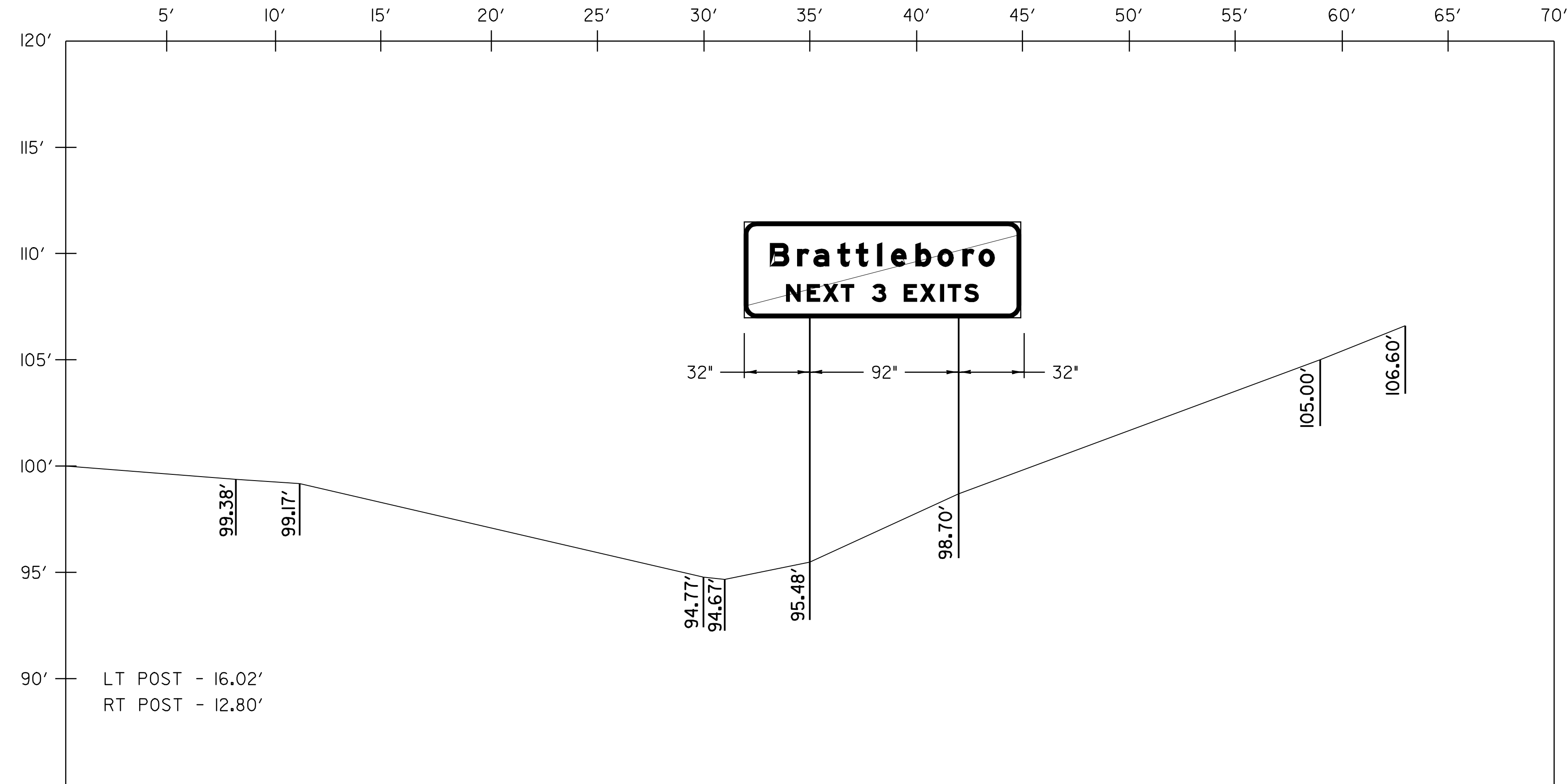
NEW WELCOME CENTER
STATION 285+12
(MM 5.40)



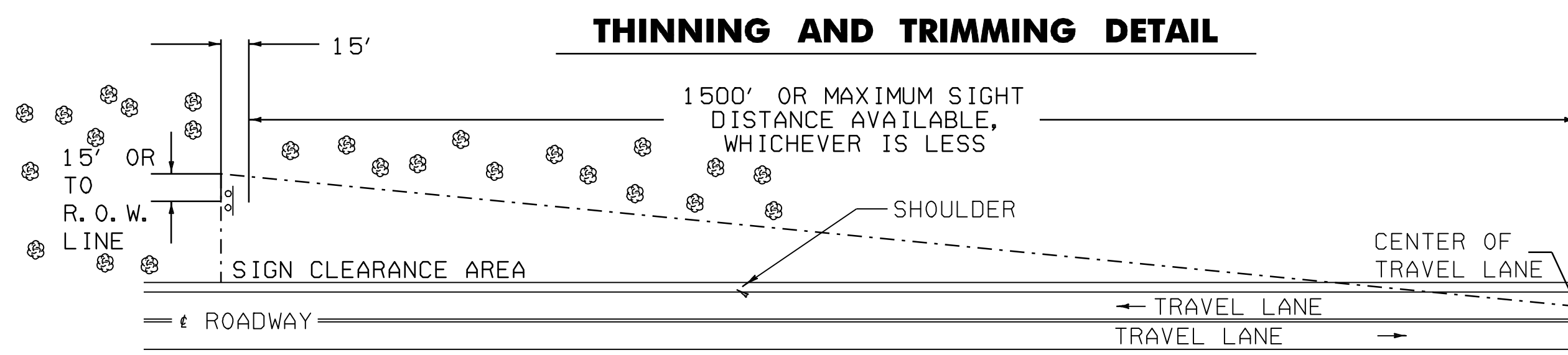
DATUM
VERTICAL _____
HORIZONTAL _____

NOT TO SCALE

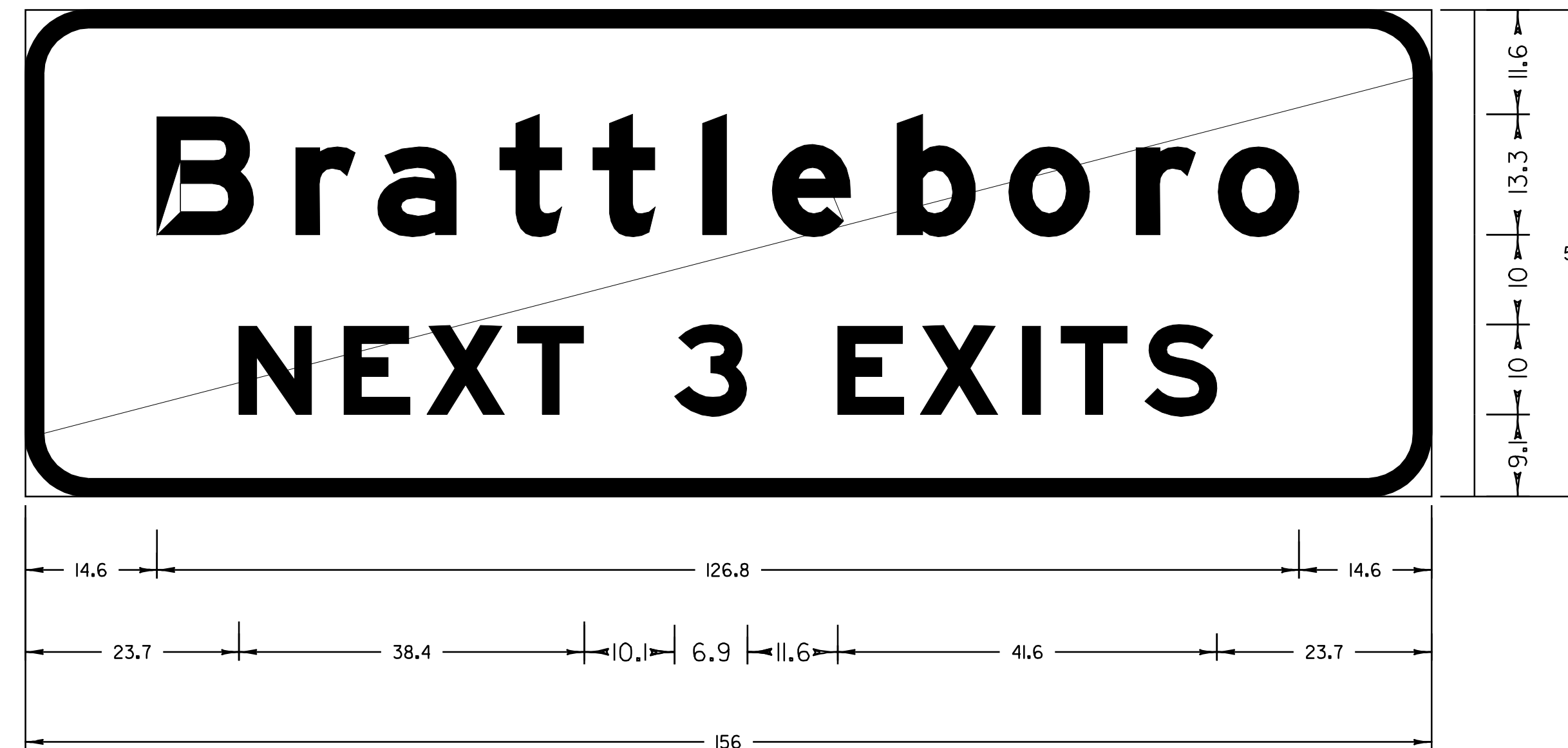
WELCOME CENTER DETAILS	PROJECT NAME: GUILFORD-BRATTLEBORO	
	PROJECT NUMBER: AC IM 091-I(5I)	
	FILE NAME: 03A020rmp9.1	PLOT DATE: 22-JAN-2009 13:3
	PROJECT LEADER: CRB	DRAWN BY: NLL
	DESIGNED BY: CLD	CHECKED BY:
	CLD REF. NO. 04-0398	SHEET 29 OF 69



**NORTHBOUND
STATION 300+27
(MM 5.687)**



THE CONTRACTOR SHALL REMOVE ALL WOODY STEMMED GROWTH INCLUDING BRUSH, SAPLINGS, TREE LIMBS GROWING WITHIN OR PROJECTING INTO THE CLEARANCE AREA AND DOWN TO GROUND LEVEL OR AT LEAST 10 FT. BELOW THE BOTTOM OF THE SIGN, WHICH EVER IS LESS. PAYMENT WILL BE FOR THINNING AND TRIMMING (FOR SIGNS) ITEM 201.31 AND PAID FOR PER EACH. NO CHEMICALS (POISONS OR DEFOLIANTS) ALLOWED.



7.0" RADIUS, 2.0" BORDER, WHITE ON GREEN
"BRATTLEBORO" CLEARVIEW HWY - 5 - W;
"NEXT 3 EXITS" CLEARVIEW HWY - 5 W

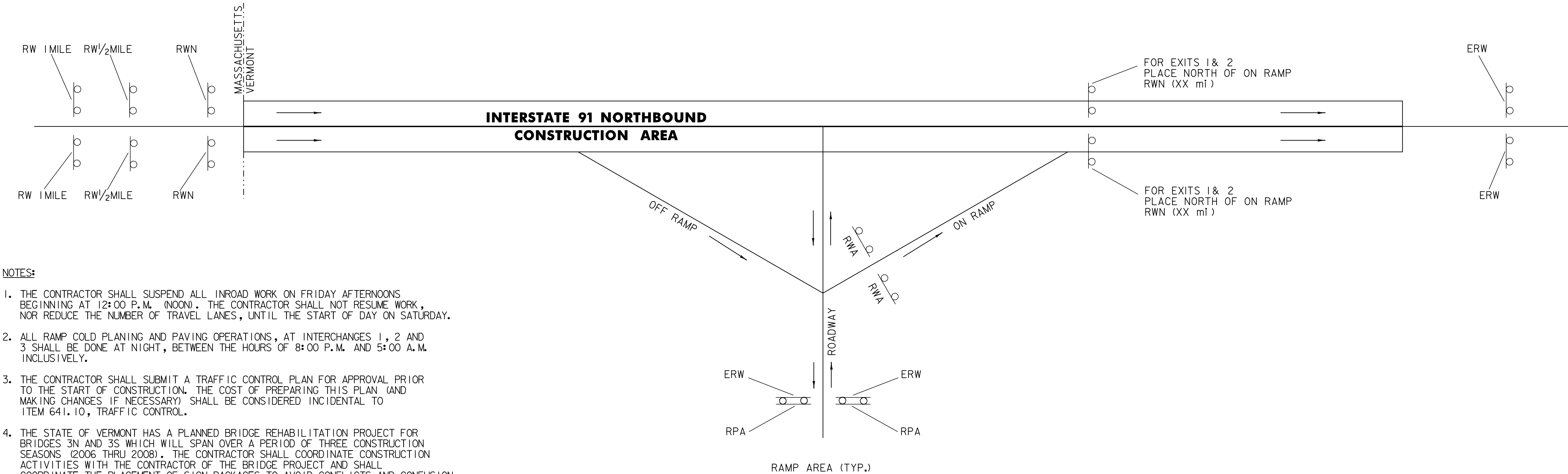
DATUM
VERTICAL N/A
HORIZONTAL N/A

NOT TO SCALE

**SIGN SECTION/
DETAIL SHEET**

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-1(51)

FILE NAME: 03A020+sd+1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 04-0398
PLOT DATE: 22-JAN-2009 13:3
DRAWN BY: JCS
CHECKED BY: NLL
SHEET 30 OF 69



NOTES:

1. THE CONTRACTOR SHALL SUSPEND ALL INROAD WORK ON FRIDAY AFTERNOONS BEGINNING AT 12:00 P.M. (NOON). THE CONTRACTOR SHALL NOT RESUME WORK, NOR REDUCE THE NUMBER OF TRAVEL LANES, UNTIL THE START OF DAY ON SATURDAY.
2. ALL RAMP COLD PLANING AND PAVING OPERATIONS, AT INTERCHANGES 1, 2 AND 3 SHALL BE DONE AT NIGHT, BETWEEN THE HOURS OF 8:00 P.M. AND 5:00 A.M. INCLUSIVELY.
3. 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 CONSIDERED INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
4. THE STATE OF VERMONT HAS A PLANNED BRIDGE REHABILITATION PROJECT FOR BRIDGES 3N AND 3S WHICH WILL SPAN OVER A PERIOD OF THREE CONSTRUCTION SEASONS (2006 THRU 2008). THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE CONTRACTOR OF THE BRIDGE PROJECT AND SHALL COORDINATE THE PLACEMENT OF SIGN PACKAGES TO AVOID CONFLICTS AND CONFUSION.
5. THE CONTRACTOR IS REQUIRED TO OBTAIN PERMITTING FROM THE MASSACHUSETTS STATE DEPARTMENT OF TRANSPORTATION FOR THE PLACEMENT OF AN MUTCD COMPLIANT CONSTRUCTION WARNING SIGN PACKAGE AND FOR THE PLACEMENT OF PORTABLE CHANGEABLE MESSAGE SIGNS WITHIN THE STATE OF MASSACHUSETTS. THE CONTACT PERSON FOR THIS WORK SHALL BE:
TOM WALKER
NORTHFIELD MASSACHUSETTS HIGHWAY DEPT.
TEL. (413) 498-5117
DIG SAFE SHALL BE NOTIFIED PRIOR TO THE INSTALLATION OF ANY SIGNS IN MASSACHUSETTS AT TEL. (888) 344-7233.
6. DURING CONSTRUCTION IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAINTAIN ONE-LANE TRAFFIC FOR EXTENDED PERIODS OF TIME IN NO CASE SHALL THE PAVED WIDTH FOR THIS ONE-LANE TRAFFIC, INCLUDING SHOULDERS, BE REDUCED TO LESS THAN 15 FEET. THIS PAVED WIDTH SHALL REMAIN FREE OF OBSTRUCTIONS AND OBSTACLES AT ALL TIMES.
7. THE CONTRACTOR SHALL POSITION A PORTABLE CHANGEABLE MESSAGE BOARD PRIOR TO MASSACHUSETTS, I-91 INTERCHANGE #28 (BERNARDSTON), WARNING NORTHBOUND MOTORISTS OF THE COLD PLANED SURFACE AND REDUCED ROADWAY WIDTHS AHEAD. THE MESSAGE TO BE DISPLAYED SHALL BE SUBMITTED TO THE RESIDENT ENGINEER IN ADVANCE FOR APPROVAL. THE COST OF PROVIDING THIS MESSAGE BOARD SHALL BE PAID UNDER ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN. THE CONTRACTOR SHALL ALSO INSTALL AND MAINTAIN THE APPROPRIATE CONSTRUCTION SIGNING WHICH WARNS THE TRAVELING PUBLIC OF THE ROUGH ROADWAY SURFACE.
8. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH STANDARD E-103. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
9. FOUR (4) PORTABLE CHANGEABLE MESSAGE SIGNS WILL BE PROVIDED FOR USE ALONG THIS PROJECT. THE PLACEMENT OF THESE MESSAGE SIGNS AS WELL AS THEIR MESSAGE WILL BE APPROVED BY THE RESIDENT ENGINEER. THIS QUANTITY IS PAID FOR AS ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.

SEE STANDARD E-100, E100A AND E-103 FOR SIGN PLACEMENT.
THE COST OF PROVIDING, INSTALLING AND MAINTAINING CONSTRUCTION APPROACH
SIGNING IS INCLUDED IN ITEM 641.10, TRAFFIC CONTROL.

TOWN/STATE HIGHWAY NAME	ROAD WORK AHEAD	ROAD WORK 1 MILE	END ROAD WORK	ROAD WORK 1/2 MILE	ROAD WORK NEXT 12 MILES	ROAD WORK NEXT 4 MILES	ROAD WORK NEXT 2 1/2 MILES	RAMP PAVING AHEAD
I-91 NORTHBOUND								
BEGINNING OF PROJECT		2		2	2			
EXIT 1 INTERCHANGE	2		2					2
STATION 418+00						2		
EXIT 2 INTERCHANGE	2		2					2
STATION 501+60							2	
EXIT 3 INTERCHANGE	2							
END OF PROJECT			2					
TOTAL	6	2	6	2	2	2	2	4

LEGEND
RW 1 MILE = ROAD WORK 1 MILE
RW 1/2 MILE = ROAD WORK 1/2 MILE
RWA = ROAD WORK AHEAD
RWN = ROAD WORK NEXT XX MILES
ERW = END ROAD WORK
RPA = RAMP PAVING AHEAD
→ = TRAFFIC FLOW ARROW

CONSTRUCTION
APPROACH
SIGNING

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-I(51)

FILE NAME: 03A020cs51.I PLOT DATE: 22-JAN-2009 13:3
PROJECT LEADER: CRB DRAWN BY: JCS
DESIGNED BY: CLD CHECKED BY: NLL
CLD REF. NO. 04-0398 SHEET 34 OF 69

NOT TO SCALE

DATUM
VERTICAL N/A
HORIZONTAL N/A

STATE OF VERMONT
AGENCY OF TRANSPORTATION

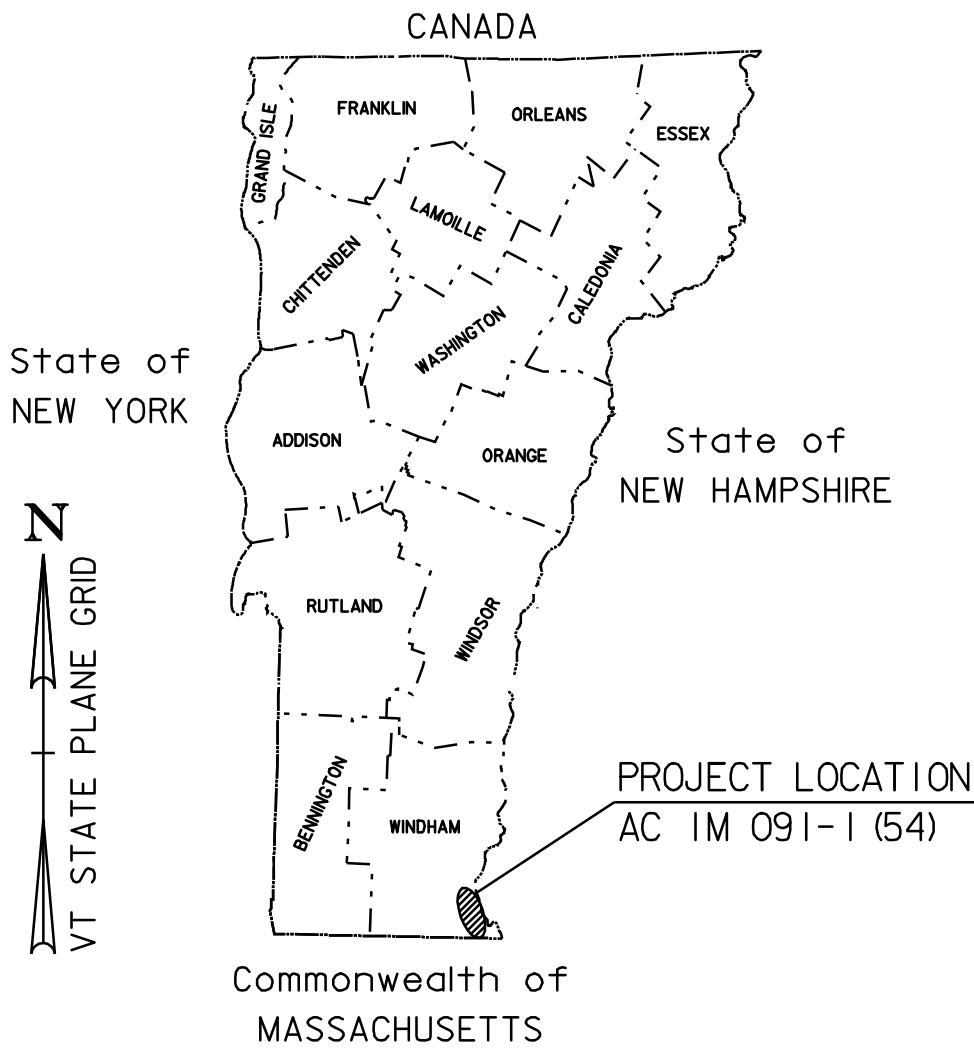


PROPOSED IMPROVEMENT
TOWNS OF GUILFORD,
VERNON & BRATTLEBORO
COUNTY OF WINDHAM
INTERSTATE ROUTE 91 SB

BEGINNING IN GUILFORD ON I-91 AT THE MASSACHUSETTES STATE LINE AT STATION 0+00 (MM 0.000) AND EXTENDING NORTHERLY ALONG THE SOUTHBOUND LANES A DISTANCE OF 62,938 FEET (11.920 MILES) TO STATION 629+38 (MM 11.920) IN THE TOWN OF BRATTLEBORO.

PROJECT DATA	
FROM	TO
STA 0+00 (MM 0.000)	STA 629+38 (MM 11.920)
LENGTH OF ROADWAY = 11.920 MILES (62,938 FEET)	
LENGTH OF PROJECT = 11.920 MILES (62,938 FEET)	

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND RESURFACING OF THE SOUTHBOUND LANES AND SOUTHBOUND INTERCHANGE RAMP AND EMERGENCY ON RAMP WITH A WEARING COURSE, NEW PAVEMENT MARKINGS, GUARDRAIL, SIGNS, AND INCIDENTAL ITEMS AS SHOWN IN THE PROJECT QUANTITIES.



TRAFFIC DATA	
MASS. LINE TO EXIT #1	
2007 ADT	= 9800
2007 DHV	= 1400
2017 ADT	= 11,200
2017 DHV	= 1600
2007 - 2017 ESALS	= 10,871,000
2007 - 2027 ESALS	= 28,930,000

EXIT #1 TO EXIT #2	
2007 ADT	= 10,000
2007 DHV	= 1300
2017 ADT	= 11,300
2017 DHV	= 1500
2007 - 2017 ESALS	= 7,961,000
2007 - 2027 ESALS	= 23,839,000

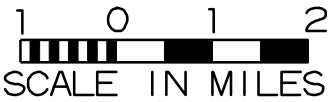
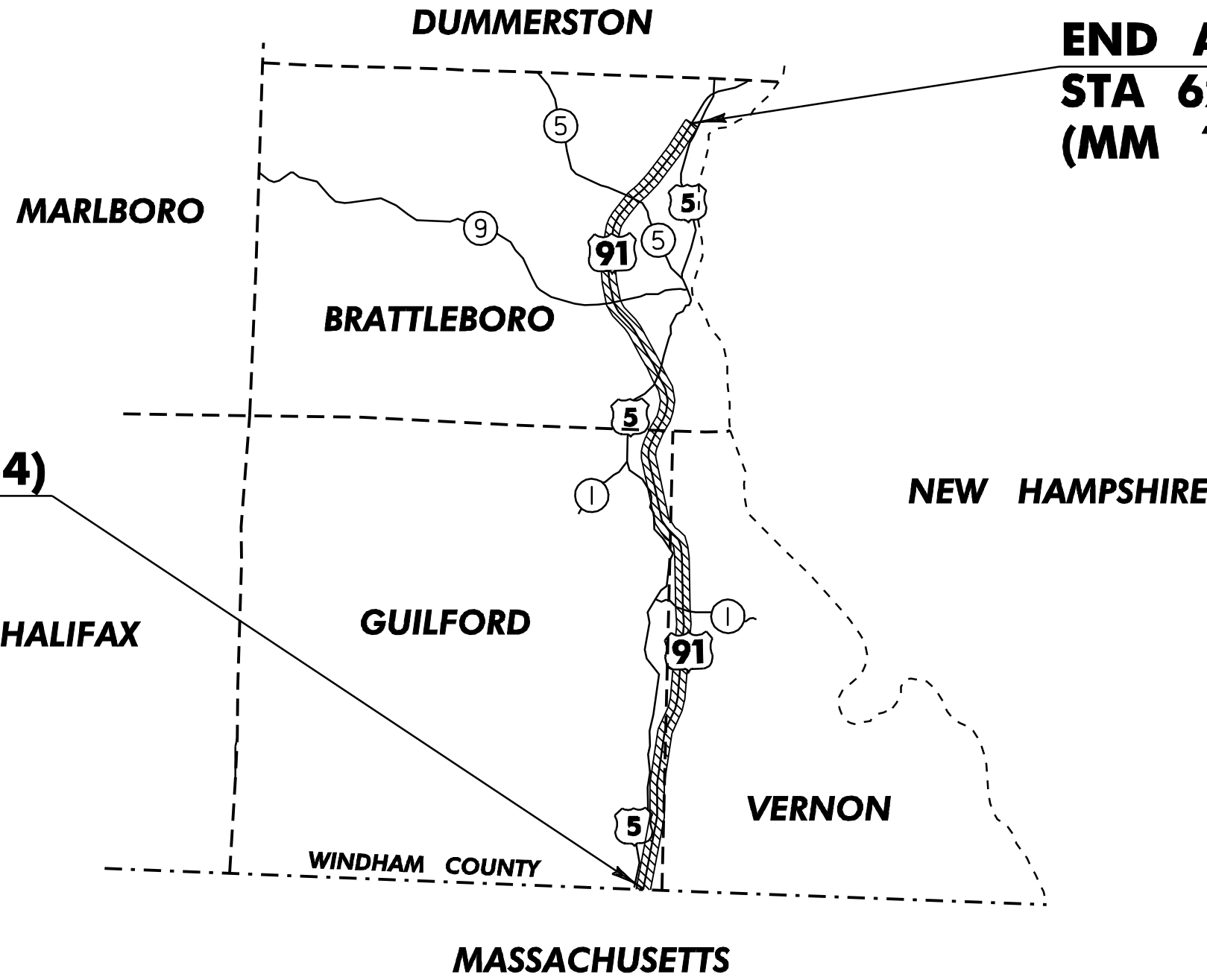
EXIT #2 TO EXIT #3	
2007 ADT	= 13600
2007 DHV	= 1600
2017 ADT	= 15,300
2017 DHV	= 1800
2007 - 2017 ESALS	= 8,448,000
2007 - 2027 ESALS	= 23,303,000

EXIT #3 END OF PROJECT	
2007 ADT	= 8800
2007 DHV	= 1100
2017 ADT	= 10,200
2017 DHV	= 1300
2007 - 2017 ESALS	= 6,448,000
2007 - 2017 ESALS	= 18,181,000

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT MIXTURE DESIGN CRITERIA	
DESIGN LANE/DESIGN LIFE ESAL	28,930,000
DESIGN NUMBER OF GYRATIONS	100
PERFORMANCE GRADED ASPHALT BINDER	64-28

BEGIN AC IM 091-1 (54)
STA 0+00.00
(MM 0.000)

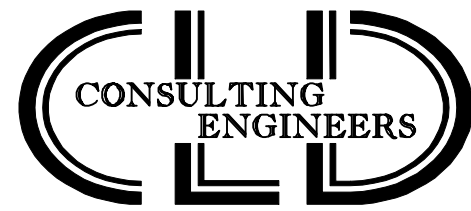
END AC IM 091-1 (54)
STA 629+38
(MM 11.920)



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	

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A



540 Commercial Street
Manchester, NH 03101
Tel: (603) 668-8223
Fax: (603) 668-8802
email: cld@cldengineers.com
Waltham • New Hampshire • Vermont

IMPERIAL PLANS
PREPARED BY:

UNLESS OTHERWISE NOTED, ALL DRAWINGS AND DETAILS OF THE PROJECT PLANS ARE NOT TO SCALE

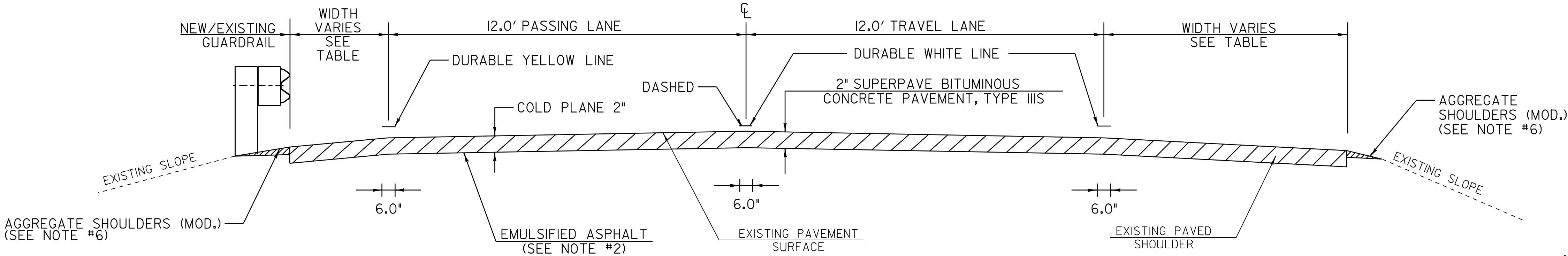
RIGHT-OF-WAY LIMITS, IF APPLICABLE, ARE PROVIDED SOLEY FOR THE CONVENIENCE OF THE STATE AND ITS CONTRACTOR DURING THE COURSE OF THIS PAVING PROJECT. ANY REFERENCES TO OFFSETS ON THESE PLANS ARE APPROXIMATE AND SHOULD NOT BE RELIED UPON FOR ANY OTHER PURPOSES.

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 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

PROJECT MANAGER: MARK WOOLAVER

PROJECT NAME : GUILFORD-BRATTLEBORO
PROJECT NUMBER : AC IM 091-1 (54)



MAINLINE TYPICAL SECTION

STA 0+00	TO	STA 275+96
STA 277+07	TO	STA 314+40
STA 318+60	TO	STA 393+45
STA 395+61	TO	STA 431+74
STA 433+22	TO	STA 450+49
STA 455+62	TO	STA 544+49
STA 545+95	TO	STA 552+75
STA 565+32	TO	STA 609+39
STA 610+23	TO	STA 629+38

PROJECT PAVING LIMITS
(REFER TO COLD PLANE TRANSITION DETAILS ON TYPICAL SHEETS 2 AND 3)

TOWN	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH	PAVEMENT TYPE	NOTES
INTERSTATE 91						
GUILFORD	0+00	122+17	10.0-12.0-12.0-4.0	2	IIIS	COLD PLANE AND OVERLAY 2"
VERNON	122+17	266+94	10.0-12.0-12.0-4.0	2	IIIS	COLD PLANE AND OVERLAY 2"
GUILFORD	266+94	275+96	10.0-12.0-12.0-4.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	275+96	277+07	10.0-12.0-12.0-10.0	1 1/4	IVS	COLD PLANE AND OVERLAY 1 1/4", BRIDGE 2S
	277+07	315+72	10.0-12.0-12.0-4.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	315+72	318+29	2.0-12.0-12.0-4.0	1 1/4	IVS	COLD PLANE AND OVERLAY 1 1/4", BRIDGE 3S
	318+29	352+01	10.0-12.0-12.0-4.0	2	IIIS	COLD PLANE AND OVERLAY 2"
BRATTLEBORO	352+01	393+45	10.0-12.0-12.0-4.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	393+45	395+61	4.0-24.0-12.0-4.0	1 1/4	IVS	COLD PLANE AND OVERLAY 1 1/4", BRIDGE 4S
	395+61	431+74	10.0-12.0-12.0-4.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	431+74	433+22	10.0-12.0-12.0-8.0	1 1/4	IVS	COLD PLANE AND OVERLAY 1 1/4", BRIDGE 5S
	433+22	450+49	8.0-12.0-12.0-4.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	450+49	455+62	3.0-12.0-12.0-3.0	1"	IVS	COLD PLANE AND OVERLAY 1", BRIDGE 6S
	455+62	544+49	10.0-12.0-12.0-4.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	544+49	545+95	12.0-12.0-12.0-6.0	1 1/2	IVS	COLD PLANE 1" & OVERLAY 1 1/2", BRIDGE 8S
	545+95	552+75	10.0-12.0-12.0-40	2	IIIS	COLD PLANE AND OVERLAY 2"
	552+75	562+32	3.0-12.0-12.0-3.0	1	IVS	COLD PLANE AND OVERLAY 1", BRIDGE 9S
	562+32	609+39	10.0-12.0-12.0-4.0	2	IIIS	COLD PLANE AND OVERLAY 2"
	609+39	610+23	1.0-24.0-12.0-6.0	1 1/2	IVS	COLD PLANE 1" & OVERLAY 1 1/2", BRIDGE 11S
	610+23	629+38	10.0-12.0-12.0-4.0	2	IIIS	COLD PLANE AND OVERLAY 2"
RAMPS	EXIT 1 ON (A)		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"
	EXIT 1 OFF (B&C)		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"
	EXIT 1 ON (D)		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"
	EXIT 2 ON/OFF (CD)		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"
	EXIT 2 ON (C)		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"
	EXIT 2 OFF (D)		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"
	EXIT 3 ON (A)		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"
	EXIT 3 OFF (B)		VARIES SEE DETAIL	2	IIIS	COLD PLANE AND OVERLAY 2"

SEEDING FORMULA – RURAL AREAS

% 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			

GENERAL NOTES

- THE PAVEMENT WEARING COURSE SHALL BE TYPE IIIS, ITEM 490.30, TYPE IVS ON BRIDGE SURFACE ITEM 490.30 AS SHOWN ON THE TYPICALS, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL LIQUID ASPHALT USED IN BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 64-28.
- EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.026 GAL/SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
- SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = 1/4" ± (TOTAL THICKNESS EXCLUDING LEVELING COURSE - IF USED).
- 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 RAMP APPROACHES AS SHOWN ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. ALL BUTT JOINTS SHALL BE SAW CUT, INCIDENTAL TO ITEM 490.30.
- ESTIMATED QUANTITIES OF ITEM 608.25, EXCAVATOR RENTAL, TYPE I AND 608.37, TRUCK RENTAL HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARDRAIL FLARES. THE GUARDRAIL FLARES SHALL BE CAPPED WITH AN ESTIMATED 3 INCH DEPTH OF AGGREGATE SHOULDERS (MOD.) UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 TONS OF AGGREGATE SHOULDERS (MOD.) FOR EACH GUARDRAIL TERMINAL. AN ESTIMATED QUANTITY OF EARTH BORROW HAS BEEN INCLUDED TO PROVIDE FOR FLARE CONSTRUCTION.
- ALL EDGES OF PAVEMENT SHALL BE BACKED UP FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.12, AGGREGATE SHOULDERS (MOD.)
- ITEM 616.47, BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS WILL BE PAID ONLY WHERE SPECIFIED IN THE PLANS. ALL OTHER BITUMINOUS CONCRETE PAVEMENT WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 490.30, SUPERPAVE BITUMINOUS CONCRETE PAVEMENT.
- COMPACTION, GRADING AND CLEAN UP ITEM 402.12, AGGREGATE SHOULDERS (MOD.) MATERIAL AND ITEM 651.35, TOPSOIL IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE OF EACH ITEM.
- SEED MIXTURE: SHALL NOT HAVE 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 RESIDENT 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 RESIDENT ENGINEER.
- HAY MULCH: TO BE PLACED ON THE EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- THE CONTRATOR SHALL MAINTAIN COLD PLANE AND PAVING DEPTHS THAT DO NOT REDUCE THE CLEARANCE HEIGHTS OF THE ROADWAY OR SHOULDERS UNDER THE OVERPASS BRIDGES (BR-1S, BR-7S AND BR-10S). THESE HEIGHTS SHALL BE RECORDED BY THE RESIDENT ENGINEER PRIOR TO THE START OF CONSTRUCTION AND SHALL BE REMEASURED AFTER PAVING OPERATIONS ARE COMPLETE. IF IT IS DETERMINED THAT A REDUCTION IN CLEAR HEIGHT HAS OCCURED, THE CONTRACTOR SHALL RE-ESTABLISH THE ORIGINAL CLEAR HEIGHT AT NO ADDITIONAL EXPENSE TO THE STATE.

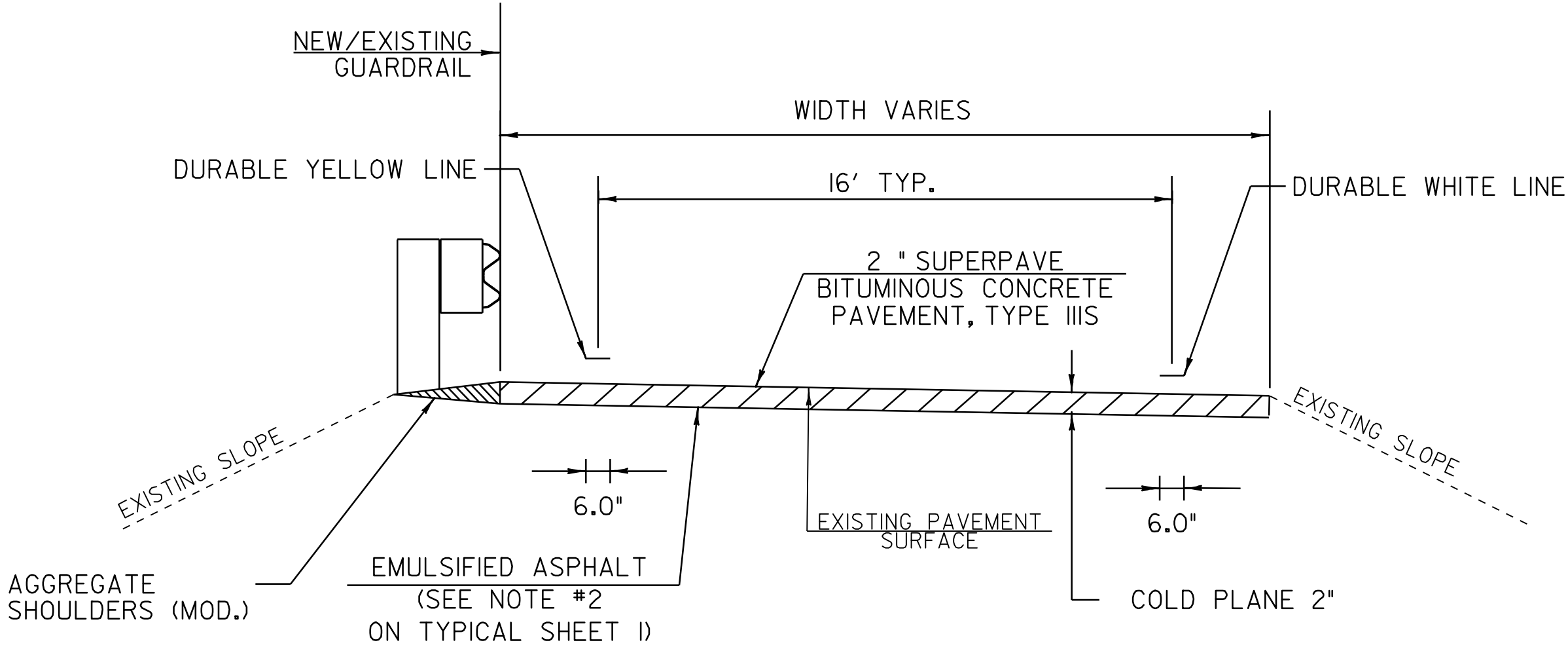
PROJECT
TYPICAL
SHEET 1

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-I(54)

FILE NAME: 05A014+y01.I PLOT DATE: 22-JAN-2009 13:4
PROJECT LEADER: CRB DRAWN BY: MRS
DESIGNED BY: CLD CHECKED BY: NLL
CLD REF. NO. 05-0387 SHEET 36 OF 69

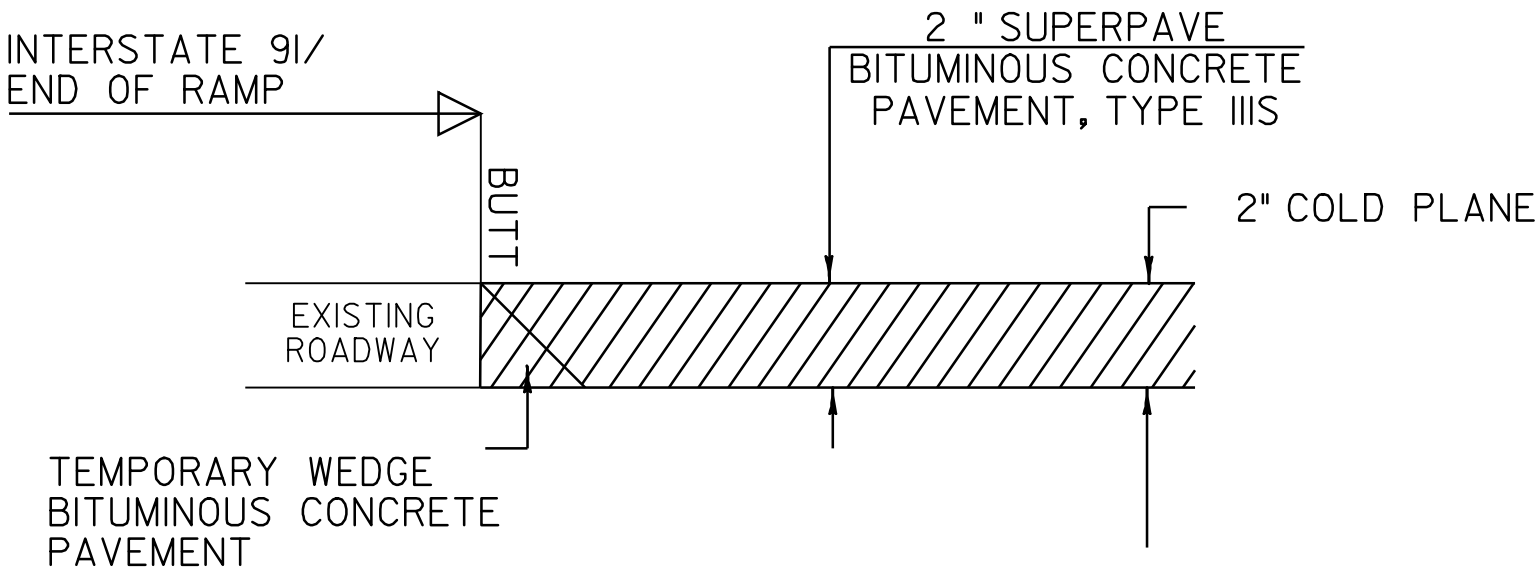
NOT TO SCALE

DATUM
VERTICAL _____
HORIZONTAL _____



RAMP PAVEMENT TYPICAL

- EXIT 1 ON RAMP A - SEE SHEET #46-48
- EXIT 1 ON RAMP D - SEE SHEET #49-51
- EXIT 1 OFF RAMP B - SEE SHEET #49, 50, 52
- EXIT 2 ON RAMP C - SEE SHEET #53-56
- EXIT 2 OFF RAMP D - SEE SHEET #53-55, 57
- EXIT 3 ON RAMP A - SEE SHEET #58, 59, 60
- EXIT 3 OFF RAMP B - SEE SHEET #58, 60-62



MAINLINER/RAMP APPROACH AREA DETAIL

LOCATION

- STA 0+00, GUILFORD - BEGIN COLD PLANING
- STA 629+38, BRATTLEBORO - END COLD PLANING
- EXIT 1 ON & OFF RAMPS @ US ROUTE 5
- EXIT 2 ON & OFF RAMPS @ VT ROUTE 9
- EXIT 3 ON & OFF RAMPS @ BRATTLEBORO STATE HWY.

NOT TO SCALE

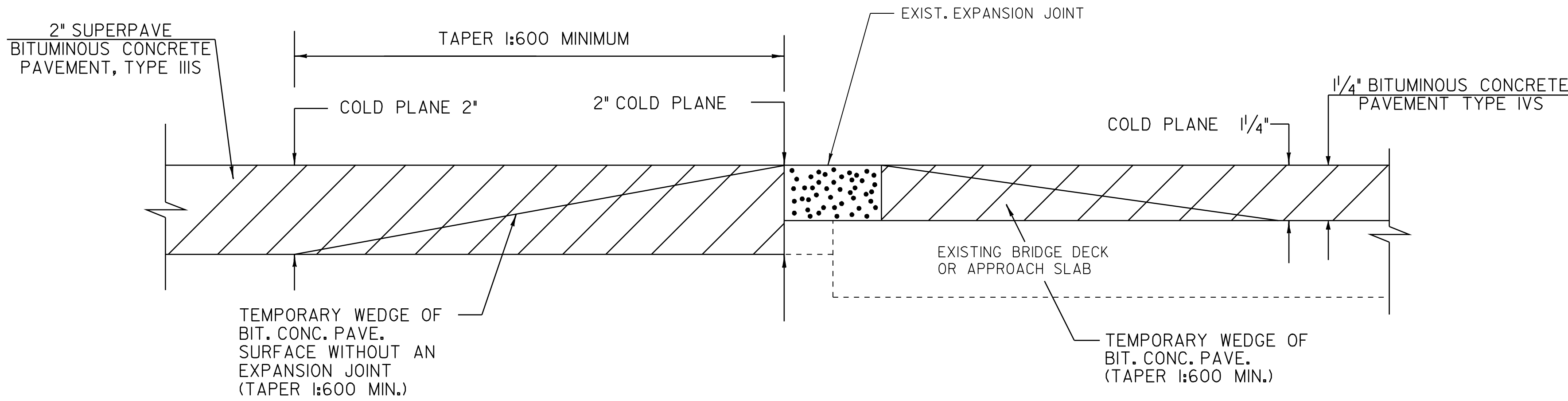
**PROJECT
TYPICAL
SHEET 2**

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 09I-I(54)

FILE NAME: 05A0I4+y02.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 05-0387

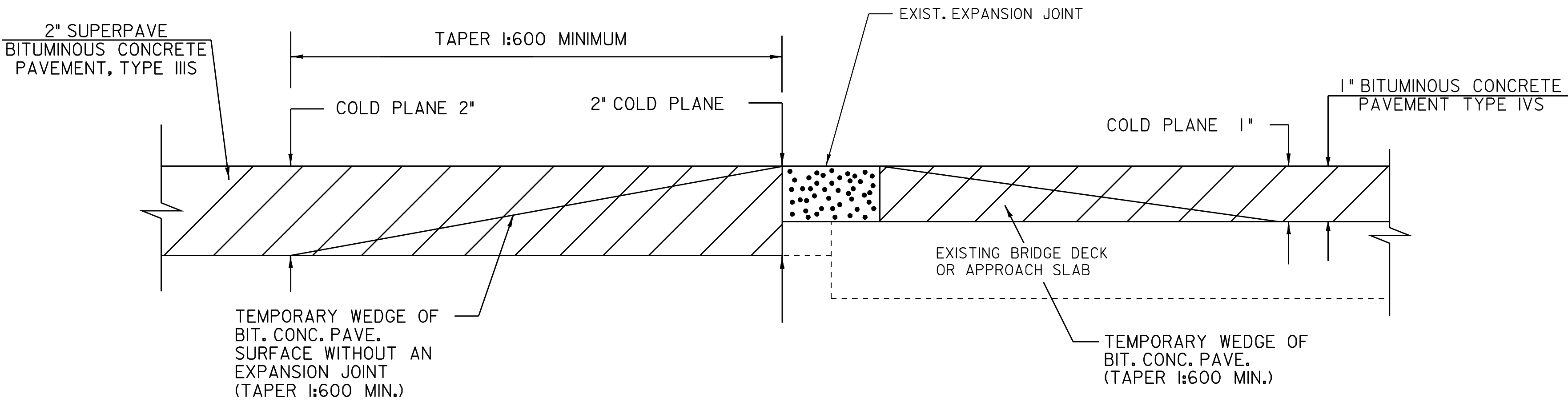
PLOT DATE: 22-JAN-2009 13:4
DRAWN BY: MRS
CHECKED BY: NLL
SHEET 37 OF 69

DATUM
VERTICAL _____
HORIZONTAL _____



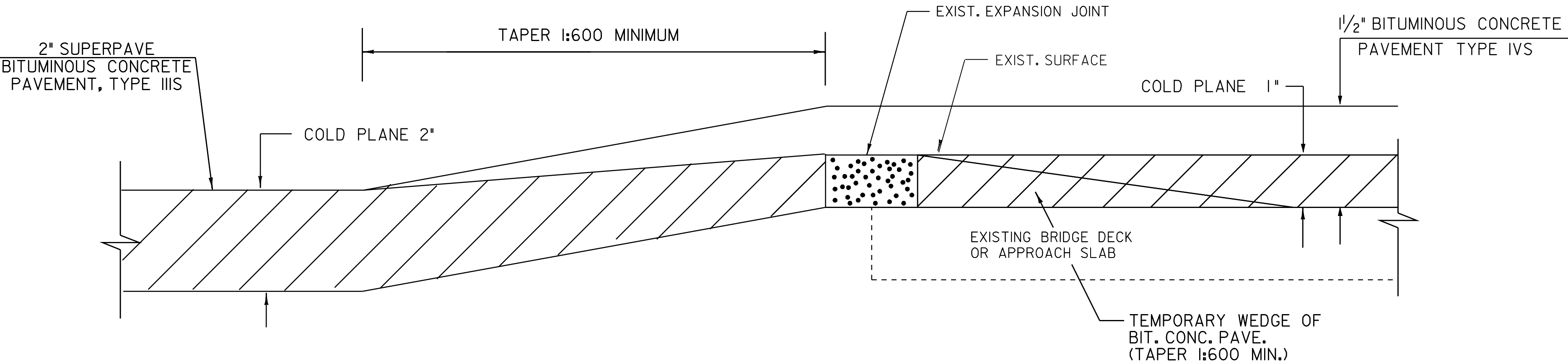
BRIDGE APPROACH DETAIL

LOCATION	
BRIDGE 2S	STA 275+96 (MM 5.226), STA 277+07 (MM 5.247)
BRIDGE 3S	STA 315+23 (MM 5.969), STA 317+75 (MM 6.020)
BRIDGE 4S	STA 393+45 (MM 7.451), STA 395+61 (MM 7.492)
BRIDGE 5S	STA 431+74 (MM 8.177), STA 433+22 (MM 8.205)



BRIDGE APPROACH DETAIL

LOCATION	
BRIDGE 6S	STA 450+61 (MM 8.534), STA 455+52 (MM 8.627)
BRIDGE 9S	STA 552+75 (MM 10.469), STA 562+32 (MM 10.650)



BRIDGE APPROACH DETAIL

LOCATION	
BRIDGE 8S	STA 544+44 (MM 10.329), STA 545+90 (MM 10.339)
BRIDGE 11S	STA 609+39 (MM 11.541), STA 610+23 (MM 11.557)

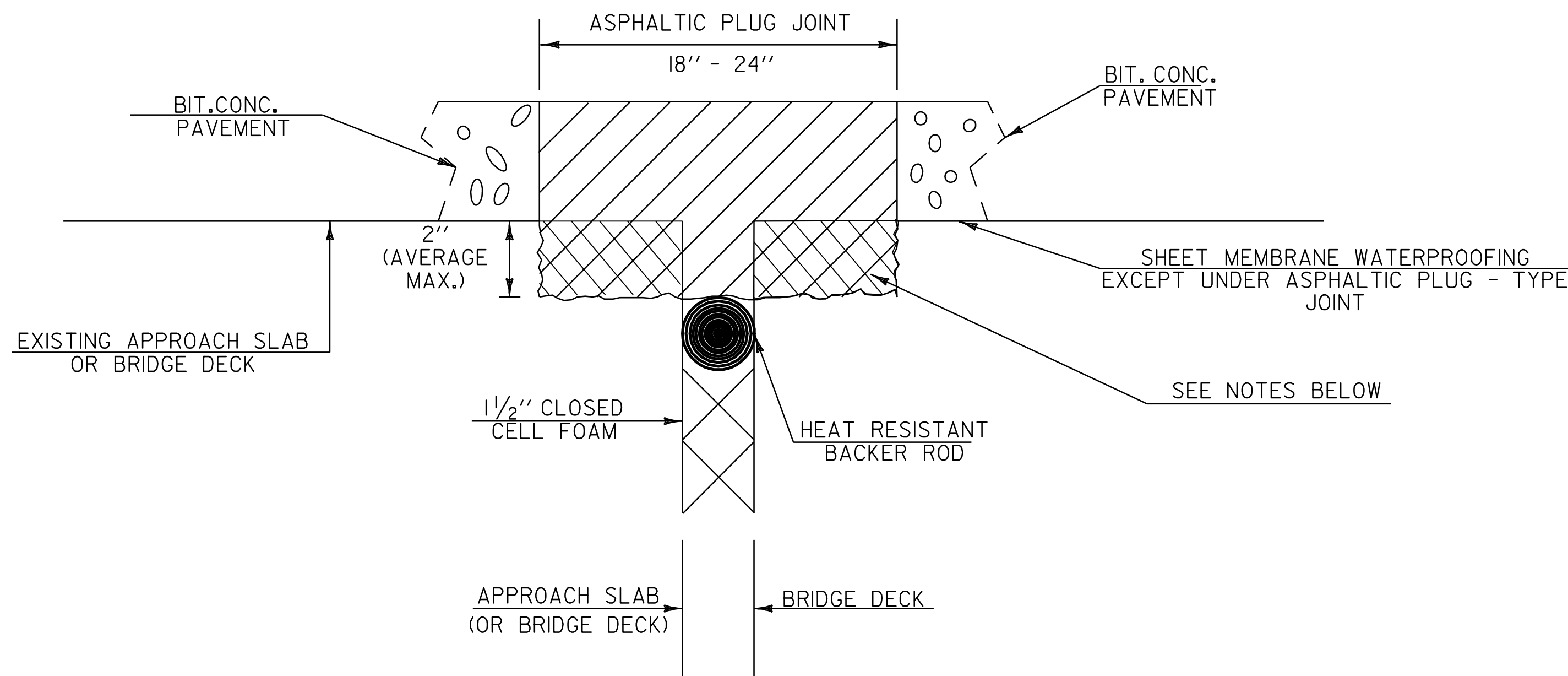
DATUM	
VERTICAL	_____
HORIZONTAL	_____

NOT TO SCALE

PROJECT
TYPICAL
SHEET 3

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 09I-I(54)

FILE NAME: 05A0I4+y03.1	PLOT DATE: 22-JAN-2009 13:4
PROJECT LEADER: CRB	DRAWN BY: MRS
DESIGNED BY: CLD	CHECKED BY: NLL
CLD REF. NO. 05-0387	SHEET 38 OF 69

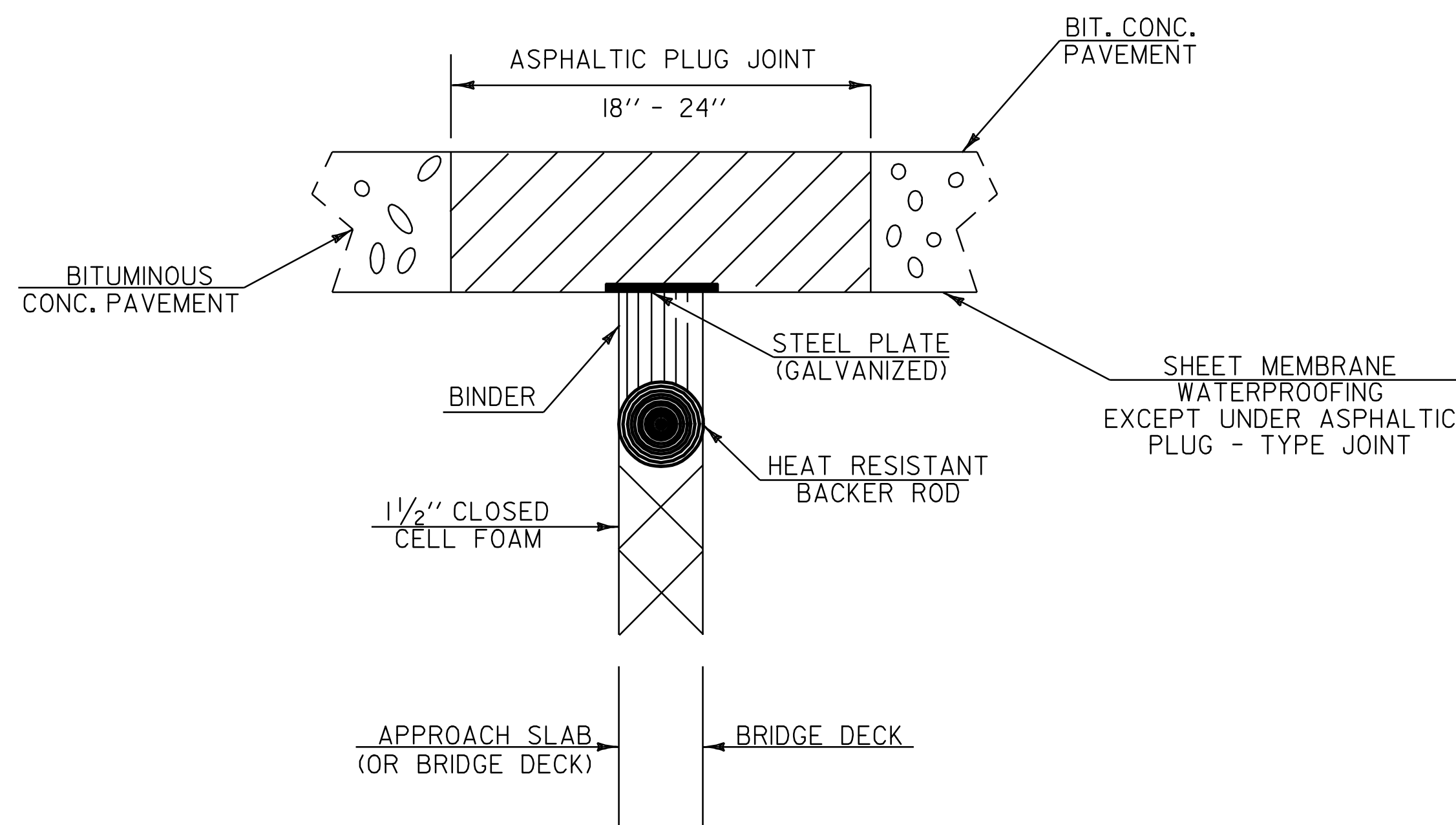


**ASPHALTIC PLUG – TYPE
JOINT DETAIL
REMOVAL OF UP TO
2" DETERIORATED CONCRETE**

NOTES:

- UPON ENCOUNTERING UP TO 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH THE ASPHALTIC PLUG JOINT MATERIAL AS DIRECTED BY THE RESIDENT ENGINEER.
- REMOVAL OF THE DETERIORATED CONCRETE WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10. THE ADDITIONAL PLUG JOINT MATERIAL BELOW THE DESIGN DEPTH TO REPLACE THE DETERIORATED CONCRETE WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10.
- THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.

* REFER TO SPECIAL PROVISIONS
FOR BASIS OF PAYMENT

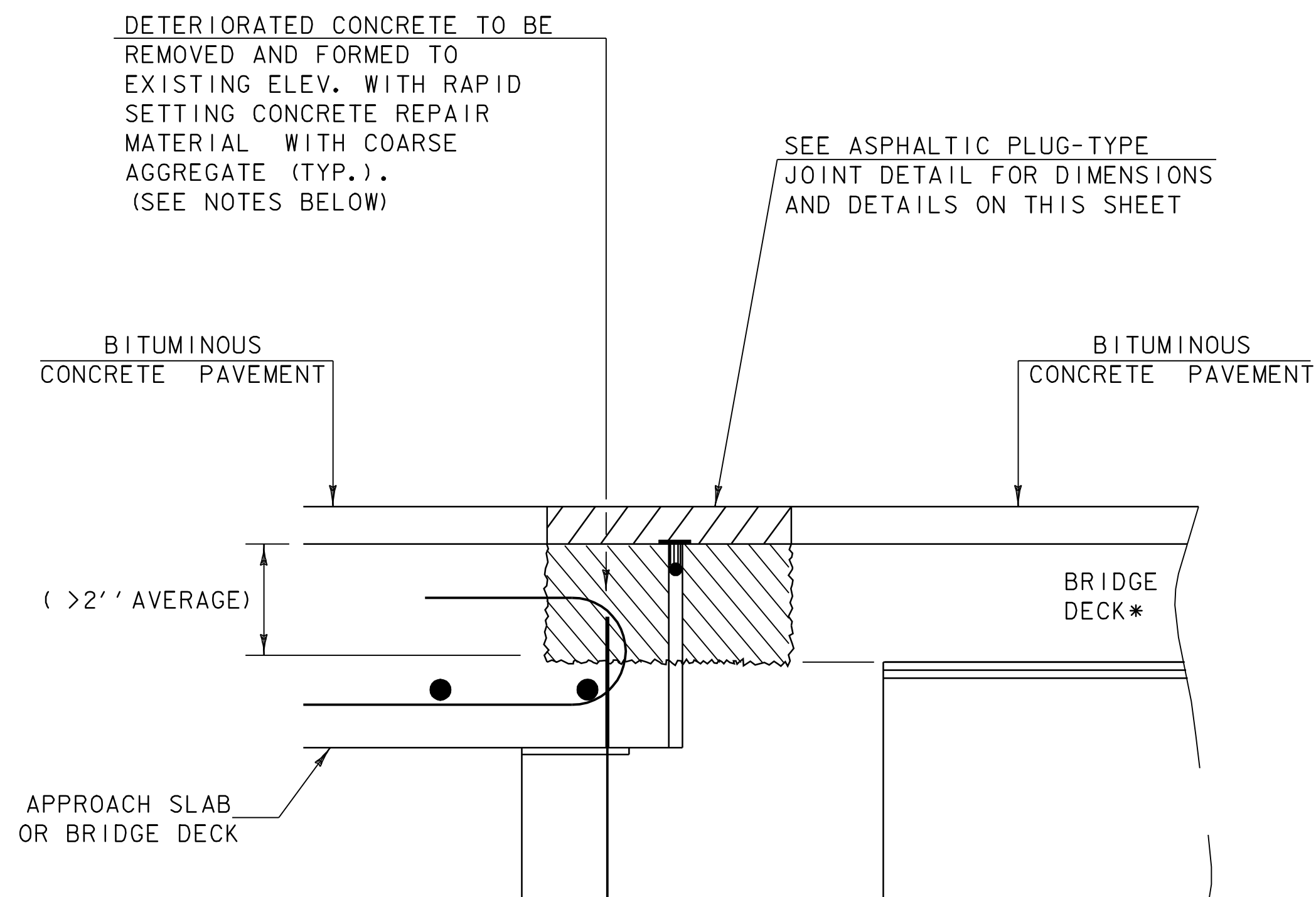


**ASPHALTIC PLUG – TYPE
JOINT DETAIL**

ASPHALTIC PLUG – TYPE JOINTS

LOCATION

BRIDGE:	2S	275+96,	44	FT
	2S	277+07,	44	FT
	3S	315+72,	30	FT
	3S	318+29,	30	FT
	4S	393+45,	44	FT
	4S	395+61,	44	FT
	5S	431+74,	42	FT
	5S	432+23,	42	FT
	5S	432+72,	42	FT
	5S	433+22,	42	FT
	6S	450+61,	30	FT
	6S	451+59,	30	FT
	6S	452+57,	30	FT
	6S	453+56,	30	FT
	6S	454+54,	30	FT
	6S	455+52,	30	FT
	8S	544+44,	42	FT
	8S	544+93,	42	FT
	8S	545+41,	42	FT
	8S	545+90,	42	FT
	9S	552+75,	30	FT
	9S	562+32,	30	FT
	11S	609+39,	42	FT
	11S	609+67,	42	FT
	11S	609+95,	42	FT
	11S	610+23,	42	FT



*BRIDGE DECK REINFORCEMENT
NOT SHOWN FOR CLARITY

**ASPHALTIC PLUG – TYPE
JOINT DETAIL
REMOVAL OF >2"
DETERIORATED CONCRETE**

NOTES:

- UPON ENCOUNTERING GREATER THAN 2" AVERAGE OF DETERIORATED CONCRETE, THE CONTRACTOR SHALL REMOVE THE DETERIORATED MATERIAL AND REPLACE IT WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE.
- REMOVAL OF THE DETERIORATED CONCRETE WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 580.20 "RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE".
- THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.

DATUM	
VERTICAL	_____
HORIZONTAL	_____

NOT TO SCALE

**PROJECT
TYPICAL
SHEET 4**

PROJECT NAME:	GUILFORD-BRATTLEBORO
PROJECT NUMBER:	AC IM 091-I(54)
FILE NAME:	05A014+y04.1
PROJECT LEADER:	CRB
DESIGNED BY:	CLD
CLD REF. NO.	05-0387
PLOT DATE:	22-JAN-2009 13:4
DRAWN BY:	MRS
CHECKED BY:	NLL
SHEET	39 OF 69

STATE OF VERMONT
AGENCY OF TRANSPORTATION

[illegible][illegible]

STATIONS		PAVEMENT WIDTHS			EQUATIONS		FEET	MILES	REMARKS
FROM	TO				+	-			
TOTALS									
22-JAN-2009 13:40 PROJECT NAME GUILFORD - BRATTLEBORO 05A014qty1.i PROJECT NUMBER AC IM 091-1(54)									SHEET 40 OF 69 SHEETS

QUANTITY SHEET #2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

[illegible][illegible][illegible]

STATIONS		PAVEMENT WIDTHS			EQUATIONS		FEET	MILES	REMARKS
FROM	TO				+	-			
TOTALS									

22- JAN-2009 13:40
05A014qty2.i
PROJECT NAME GUILFORD - BRATTLEBORO
PROJECT NUMBER AC IM 091-1(54)
SHEET 41 OF 69 SHEETS

LOCATION			CURBED SIDEWALKS			DROP INLETS				GUARDRAIL								MISC.		DELINEATORS				REMARKS		
STATION	STATION	POS.	203.15 COMM. EXCAV.			616.41 REMOVAL EXISTING CURB	604.40 CHANGE ELEV. D. I.	604.412 REHAB. D. I. CLASS I	604.415 REHAB. D. I. CLASS II	604.418 REHAB. D. I. CLASS III	620.75 SNOW BARRIER GALV.	621.20 STEEL BEAM G. R. (GALV.)	S. B. G. R. (GALV.) (MOD. - 8' POSTS)	621.21 H. D. S. B. G. R. (GALV.)	621.505 M. T. S.	621.52 TRAILING END TERM.	621.60 ANCHOR FOR G. R.	621.80 REMOVE & DISP. G. R.		616.47 BIT. GUTTERS TRAFFIC ISLANDS	676.10 TYPE I RAMPS TYPE II TYPE III TYPE I MILE POSTS					
INTERSTATE 91			CY			ft	EA	EA	EA	EA	ft	ft	ft	ft	EA	EA	EA	ft		TON		0	0	0	399	FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER
0+00	629+38						7				390									0.19						
GUILFORD																										
7+94	13+44	LT										-550- 137.5			I	I		-607- 187.5							TET @ 7+81.5 ~ 7+94, MTS (FLARED) @ 13+44 ~ 13+81.5	
70+51	96+25	LT										2187.5				I		2200							RETAIN EXISTINGBURRIED END + (7) 12.5' PANES = 100' AND (11) 25' PANELS 2 1.65Mmm = 275' TOTAL RETAINED = 375'	
VERNON																										
212+21	213+74	RT	BR. NO. 1S (STA 212+84)																						RETAIN EXISTING, REPLACE AS PART OF AC IM 091-I(51)	
213+07.5	213+20	LT										-12.5- 425			I	I		25							TET @ 212+95 ~ 213+07.5	
213+20	214+64	LT																150							RETAIN EXISTING REPLACE ENTIRE G.R. TO PROVIDE MIIDE MIN. 375' + MTS @ APPROACH SIDE OF PIER (10' SHOULDER)+25' TRAILING END	
249+59.5	249+72	LT										12.5				I		25							TET @ 249+47 ~ 249+59.5	
249+72	253+49	LT															I								RETAIN EXISTING PANEL + POST REPLACEMENT + NEW ANCHOR DUE TO DAMAGED SPIDER + ANCHOR ROD	
GUILFORD																										
258+41.5	258+54	RT										-12.5- 1712.5	50			I		25 1775							TET @ 258+29 ~ 258+41.5 REPLACE ENTIRE RUN DUE TO DAMAGE	
258+54	276+96	RT	BR. NO. 2S (STA 276+41)																						RETAIN EXISTING	
275+76.5	275+89	LT										-12.5- 662.5		50			I		-25 50							TET @ 275+64 ~ 275+76.5
275+89	277+17	LT																							RETAIN EXISTING	
276+96	280+83.5	RT									-337.5 375 612.5			12.5 50	I			-423- 390 703							APPROACH SECTION 276+96 ~ 277+46, MTS (FLARED) @ 280+83.5 ~ 281+21	
277+17	283+79.5	LT												50	I										APPROACH SECTION 277+17 ~ 277+67, MTS (FLARED) @ 283+79.5 ~ 284+17	
310+64.5	310+77	LT										-12.5- 400 662.5		25			I	I	25 437.5 750						TET @ 310+52 ~ 310+64.5	
310+77	325+58	LT	BR. NO. 3S (STA 316+86)											50	I		I								RETAIN EXISTING 4/13/07 PER LARRY WHEELER, ADD THE FOLLOWING: SB RT. 94' SHOULDER) 425'	
314+06	320+14	RT										375		50	I		I	200							RETAIN EXISTING SB LT. (10' SHOULDER) 375' + TRAILING END GR + TET + PERPENDICULAR RUNS	
331+02.5	344+02.5	LT										1300			I	I		1348							TET @ 330+90 ~ 331+02.5, MTS (FLARED) @ 344+02.5 ~ 344+40	
BRATTLEBORO																										
369+69.5	376+82	LT											712.5				I		712.5							TET @ 369+57 ~ 369+69.5, ATTACH TO EXISTING GUARDRAIL @ 376+82
376+82	381+22	LT																							RETAIN EXISTING, CONTINUES DOWN EXIT ION RAMP	
383+35	384+00	LT																							RETAIN EXISTING, ENDS ON EXIT ION RAMP A	
384+00	392+50	LT											850					850								ATTACH TO EXISTING GUARDRAIL @ EACH END
392+46	397+50	LT																							RETAIN EXISTING, ENDS ON EXIT ION RAMP D	
392+91	396+76	RT	BR. NO. 4S (STA 394+77)																						BULLNOSE, REPLACE AS PART OF AC IM 091-I(51)	
424+75.5	424+88	RT											12.5				I		25							TET @ 424+63 ~ 424+75.5
424+88	433+19	RT	BR. NO. 5S (STA 432+35)									637.5		50				687.5							RETAIN EXISTING REPLACE ENTIRE GR RUN INCLUDING 50' HD APPROACH W/SCH. II POST SPACING DUE TO EXTENSIVE DAMAGE.	
431+64	435+51	LT											387.5		12.5				192.5							RETAIN EXISTING REMOVE 192.5' (INCLUDES91) 12.5' HD APPROACH GR INSTALL (1) 12.5' HD +387.5' GR + MTS
431+51.5	431+64	LT										12.5				I		25							TET @ 431+39 ~ 431+51.5	
433+19	442+31.5	RT										-862.5- 775	100	50	I			951 962.5							APPROACH SECTION 433+19 ~ 433+69, MTS (FLARED) @ 442+31.5 ~ 442+69	
SHEET 1 SUBTOTALS			0			0	7	0	0	0	390	3750	1562.5	150	5	10	0	5769.5		0.19	0	0	0	399	ITEM DETAIL SHEET 1	PROJECT NAME: GUILFORD-BRATTLEBORO
																										PROJECT NUMBER: AC IM 091-I(54)
																										FILE NAME: 05A0141d01.1
																										PLOT DATE: 22-JAN-2009 13:4
																										PROJECT LEADER: CRB
																										DRAWN BY: MRS
																										CHECKED BY: NLL
																										CLD REF. NO. 05-0387
																										SHEET 42 OF 69

LOCATION			CURBED SIDEWALKS			DROP INLETS					GUARDRAIL								MISC.		DELINEATORS				REMARKS
STATION	STATION	POS.	203.15			616.41	604.40	604.412	604.415	604.418	620.75	621.20		621.21	621.505	621.52	621.60	621.80		616.47					
			COMM. EXCAV.			REMOVAL EXISTING CURB	CHANGE ELEV. D. I.	REHAB. D. I. CLASS I	REHAB. D. I. CLASS II	REHAB. D. I. CLASS III	SNOW BARRIER GALV.	STEEL BEAM G. R. (GALV.)	S. B. G. R. (GALV.) (MOD. - 8' POSTS)	H. D. S. B. G. R. (GALV.)	M. T. S.	TRAILING END TERM.	ANCHOR FOR STEEL BEAM	REMOVE & DISP. G. R.	BIT. GUTTERS TRAFFIC ISLANDS	TYPE I RAMPS	TYPE II	TYPE III	TYPE I MILE POSTS		
			CY			ft	EA	EA	EA	EA	ft	ft	ft	ft	EA	EA	EA	ft		TON					
445+63.5	450+51	LT										~~-462.5~~ 500		25		I	I	~~-501~~ 562.5						TET @ 445+51 ~ 445+63.5, APPROACH SECTION 450+26 ~ 450+51, ATTACH TO EXISTING BRIDGE RAIL. + NEW ANCHOR 2 1ST 12.5' HD APPROACH RAIL	
449+60	455+65	RT																						RETAIN EXISTING	
450+51	455+59	LT																						RETAIN EXISTING BRIDGE RAIL	
455+59	462+21.5	LT										~~-612.5~~ 625		50			I	~~-667~~						APPROACH SECTION 455+59 ~ 456+09 ATTACH TO EXISTING BRIDGE RAIL, ANCHOR @ 462+21.5 (BURIED END)	
455+65	457+52.5	RT										137.5		50	I			227						APPROACH SECTION 455+65 ~ 456+15 ATTACH TO EXISTING BRIDGE RAIL, MTS (FLARED) @ 457+52.5 ~ 457+90	
459+98	461+89	RT																						BULLNOSE, REPLACE AS PART OF AC IM 091-I(51)	
468+30.5	473+93	LT											~~-575~~ 562.5			I		~~-575~~ 552						TET @ 468+18 ~ 468+30.5, ATTACH TO EXISTING GUARDRAIL @ 473+93	
473+93	475+20	RT																						RETAIN EXISTING, CONTINUES DOWN EXIT 2 ON RAMP @ 6+49	
475+95	482+92	LT																						RETAIN EXISTING, CONTINUES DOWN EXIT 2 ON&OFF RAMPS @ 2+06	
485+13	487+25.5	LT										212.5			I			250						MTS (FLARED) @ 487+25.5 ~ 487+63, GUARDRAIL CONTINUES DOWN EXIT 2 OFF RAMP	
543+60	548+25	RT										275			I									RETAIN EXISTING EXTEND EXISTING GR TO STA. 550 + 37 + MTS TO STA 550+75	
543+60	566+60	LT										25			I	I								RETAIN EXISTING REPLACE EXISTING MELT W/ MTS	
551+81	564+22	RT										262.5			I									RETAIN EXISTING EXTEND EXIST. GR TO STA 567+60 + MTS TO STA 567+98	
593+33	594+87	RT																						BULLNOSE, REPLACE AS PART OF AC IM 091-I(51)	
593+80.5	598+43	LT										~~-462.5~~ 512.5			I	I		228						TET @ 593+98 ~ 593+80.5, MTS (FLARED) @ 598+43 ~ 598+80.5	
606+77.5	606+90	LT										12.5				I		25						TET @ 606+65 ~ 606+77.5	
606+77.5	611+82	LT																						RETAIN EXISTING, CONTINUES DOWN EXIT 3 ON RAMP @ 6+23	
609+08	611+82	RT																						RETAIN EXISTING	
619+71	621+45	RT																						RETAIN EXISTING, CONTINUES DOWN EXIT 3 OFF RAMP @ 0+00 REPLACE EXIST. MELT W/MTS	
625+74.5	627+00	LT										~~-125~~ 150				I		125.5						TET @ 625+62 ~ 625+74.5, ATTACH TO EXISTING GUARDRAIL @ 627+00	
627+00	629+38	RT																						RETAIN EXISTING, GUARDRAIL ENDS BEYOND PROJECT LIMITS	
RAMPS								21	2	2										156	87	11	0	NO SPECIFIC LOCATIONS IDENTIFIED. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER	
EXIT 1 ON RAMP A			149																					FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER	
0+96	12+56	RT																						RETAIN EXISTING, CONTINUES ON I-91 @ 381+22	
3+08	10+57	LT																						RETAIN EXISTING, CONTINUES ON I-91 @ 383+35	
EXIT 1 ON RAMP D			121			200												0.61						FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER	
EXIT 1 OFF RAMP B			70															0.18						FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER	
EXIT 1 OFF RAMP C						100																			
EXIT 2 OFF RAMP D			122																					FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER	
0+00	4+75	RT										475	500			I		490						TET @ 4+75 ~ 4+87.5, CONTINUES ON I-91 @ 485+13	
2+06	9+41	LT																						RETAIN EXISTING, CONTINUES ON I-91 @ 482+92	
SHEET 2 SUBTOTALS			462			300	0	21	2	2	0	2375	700	125	3	6	1	3088.5	0.79	156	87	11	0	ITEM DETAIL SHEET 2	PROJECT NAME: GUILFORD-BRATTLEBORO
																									PROJECT NUMBER: AC IM 091-I(54)
																									FILE NAME: 05A0141d02.1
																									PROJECT LEADER: CRB
																									DESIGNED BY: CLD
																									CHECKED BY: NLL
																									CLD REF. NO. 05-0387
																									PLOT DATE: 22-JAN-2009 13:4
																									DRAWN BY: MRS
																									CHECKED BY: NLL
																									SHEET 43 OF 69

[illegible]

TEMPORARY AND DURABLE 6" WHITE LINE		
STA 0+00	TO 448+80	SOLID LT
STA 0+00	TO 448+80	DASHED CL
TEMPORARY AND DURABLE 6" YELLOW LINE		
STA 0+00	TO 448+80	SOLID RT

REMOVAL & DISP. OF GUARDRAIL		
STA 07+78	TO 13+85	RT
STA 212+95	TO 213+20	LT
STA 249+47	TO 249+72	LT
STA 258+29	TO 258+54	RT
STA 276+96	TO 281+19	RT
STA 275+64	TO 275+89	LT
STA 277+17	TO 284+20	LT
STA 310+52	TO 310+77	LT
STA 330+92	TO 344+40	LT
STA 424+63	TO 424+88	RT
STA 431+39	TO 431+64	LT
STA 433+19	TO 442+70	RT
STA 445+50	TO 450+51	LT

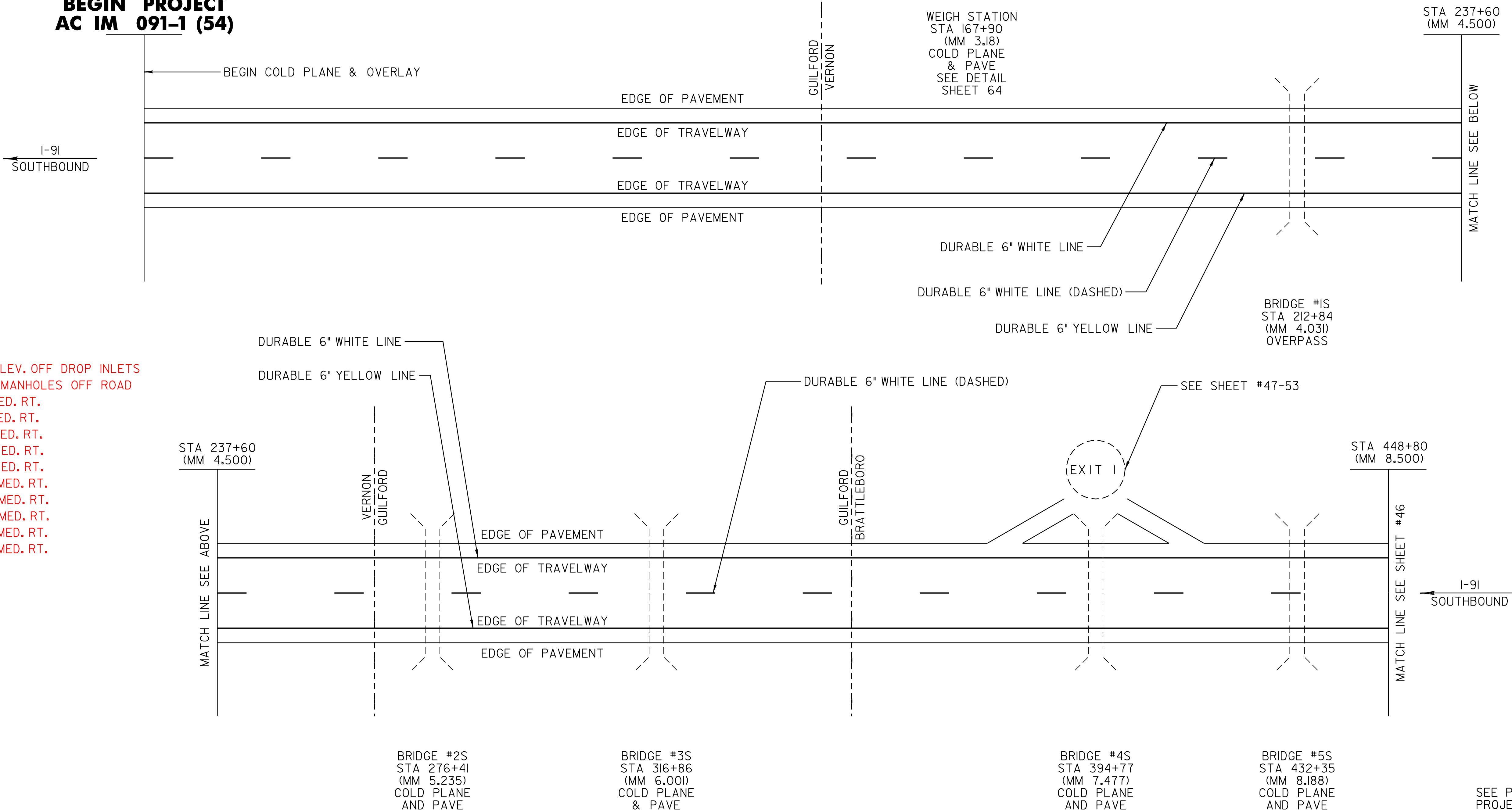
STEEL BEAM GUARDRAIL (GALV.)		
STA 07+94	TO 13+44	LT
STA 213+07.5	TO 213+20	LT
STA 249+59.5	TO 249+72	LT
STA 258+41.5	TO 258+54	RT
STA 275+76.5	TO 275+89	LT
STA 277+46	TO 280+83.5	RT
STA 277+67	TO 283+79.5	LT
STA 310+64.5	TO 310+77	LT
STA 331+02.5	TO 344+02.5	LT
STA 424+75.5	TO 424+88	RT
STA 431+51.5	TO 431+64	LT
STA 433+69	TO 442+31.5	RT
STA 445+63.5	TO 450+26	LT

H.D. STEEL BEAM GUARDRAIL (GALV.)		
STA 276+96	TO 277+46	RT
STA 277+17	TO 277+67	LT
STA 433+19	TO 433+69	RT
TRAILING END TERMINAL (TET)		
STA 7+81.5	TO 7+94	LT
STA 212+95	TO 213+07.5	LT
STA 249+47	TO 249+59.5	LT
STA 258+29	TO 258+41.5	RT
STA 275+64	TO 275+76.5	LT
STA 310+52	TO 310+64.5	LT
STA 330+90	TO 331+02.5	LT
STA 424+63	TO 424+75.5	RT
STA 431+39	TO 431+51.5	RT
STA 445+51	TO 445+63.5	LT

MANUFACTURED TERMINAL SECTION (MTS)		
STA 13+44	TO 13+81.5	LT (FLARED)
STA 280+83.5	TO 281+21	RT (FLARED)
STA 283+79.5	TO 284+17	LT (FLARED)
STA 344+02.5	TO 344+40	LT (FLARED)
STA 442+31.5	TO 442+69	RT (FLARED)
SNOW BARRIER - GALVANIZED		
BRIDGE #1 (OVERPASS) 65 FT EACH SIDE		

TRAFFIC SIGNS, TYPE A		
STA 0+00	RT NO U-TURN	
STA 0+00	LT MM PLAQUE (0.00)	
STA 4+75	RT NO U-TURN	
STA 52+80	LT MM PLAQUE (1.00)	
STA 102+43	RT NO U-TURN	
STA 105+60	LT MM PLAQUE (2.00)	
STA 158+40	LT MM PLAQUE (3.00)	
STA 211+20	LT MM PLAQUE (4.00)	
STA 221+23	RT NO U-TURN	
STA 264+00	LT MM PLAQUE (5.00)	
STA 307+30	RT NO U-TURN	
STA 316+80	LT MM PLAQUE (6.00)	
STA 348+48	RT NO U-TURN	
STA 369+60	LT MM PLAQUE (7.00)	
STA 419+76	RT NO U-TURN	
STA 422+40	LT MM PLAQUE (8.00)	

INTERSTATE ROUTE 91 SB
STA 0+00
(MM 0.000)
BEGIN PROJECT
AC IM 091-1 (54)



REMOVING SIGNS		
STA 0+00	RT NO U-TURN	
STA 0+00	LT MM PLAQUE (0.00)	
STA 4+75	RT NO U-TURN	
STA 52+80	LT MM PLAQUE (1.00)	
STA 102+43	RT NO U-TURN	
STA 105+60	LT MM PLAQUE (2.00)	
STA 158+40	LT MM PLAQUE (3.00)	
STA 211+20	LT MM PLAQUE (4.00)	
STA 221+23	RT NO U-TURN	
STA 264+00	LT MM PLAQUE (5.00)	
STA 307+30	RT NO U-TURN	
STA 316+80	LT MM PLAQUE (6.00)	
STA 348+48	RT NO U-TURN	
STA 369+60	LT MM PLAQUE (7.00)	
STA 419+76	RT NO U-TURN	
STA 422+40	LT MM PLAQUE (8.00)	

DELINEATORS
REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

604.40 CHANGE ELEV. OFF DROP INLETS
CATCH BASINS, + MANHOLES OFF ROAD
SB STA 52+09 MED. RT.
SB STA 100+12 MED. RT.
SB STA 146+54 MED. RT.
SB STA 162+46 MED. RT.
SB STA 168+96 MED. RT.
SB STA 238+96 MED. RT.
SB STA 250+80 MED. RT.
SB STA 264+00 MED. RT.
SB STA 287+76 MED. RT.
SB STA 445+56 MED. RT.

604.412 REHAB DI CB + MH CLASS I OFF ROAD

SB STA 129+96 MEDIAN RT
SB STA 135+49 MEDIAN RT

NOT TO SCALE

PAVING
PROJECT
LAYOUT #1

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-1(54)

FILE NAME: 05A0141s01.1	PLOT DATE: 22-JAN-2009 13:4
PROJECT LEADER: CRB	DRAWN BY: MRS
DESIGNED BY: CLD	CHECKED BY: NLL
CLD REF. NO. 05-0387	SHEET 45 OF 69

DATUM	
VERTICAL	_____
HORIZONTAL	_____

TEMPORARY AND DURABLE 6" WHITE LINE
STA 448+80 TO 629+38 SOLID LT
STA 448+80 TO 629+38 DASHED CL
TEMPORARY AND DURABLE 6" YELLOW LINE
STA 448+80 TO 629+38 SOLID RT

CHANGING ELEV. OF DROP INLET,
CATCH BASIN, MANHOLE
~~STA 459+98 LT~~
~~STA 461+94 LT~~
~~STA 462+94 LT~~
~~STA 464+48 LT~~
~~STA 465+43 LT~~
~~STA 467+01 LT~~
~~STA 552+72 LT~~

REMOVAL & DISP. OF GUARDRAIL
STA 455+59 TO 462+26 LT
STA 455+65 TO 457+92 RT
STA 485+13 TO 487+63 LT
STA 593+70 TO 595+98 LT
STA 606+65 TO 606+90 LT

STEEL BEAM GUARDRAIL (GALV.)
STA 456+09 TO 462+21.5 LT
STA 456+15 TO 457+52.5 RT
STA 485+13 TO 487+25.5 LT
STA 593+80.5 TO 598+43 LT
STA 606+77.5 TO 606+90 LT

H.D. STEEL BEAM GUARDRAIL (GALV.)
STA 450+26 TO 450+51 LT
STA 455+59 TO 456+09 LT
STA 455+65 TO 456+15 RT
TRAILING END TERMINAL (TET)
STA 593+98 TO 593+80.5 LT

MANUFACTURED TERMINAL SECTION (MTS)
STA 457+52.5 TO 457+90 RT (FLARED)
STA 487+25.5 TO 487+63 LT (FLARED)
STA 598+43 TO 598+80.5 LT (FLARED)

ANCHOR
STA 462+21.5 LT (BURIED END)

SNOW BARRIER - GALVANIZED

BRIDGE #7 (OVERPASS) 65 FT EACH SIDE
BRIDGE #10 (OVERPASS) 65 FT EACH SIDE

TRAFFIC SIGNS, TYPE A

STA 463+06 RT NO U-TURN
STA 475+20 LT MM PLAQUE (9.00)
STA 498+96 RT NO U-TURN
STA 528+00 LT MM PLAQUE (10.00)
STA 580+80 LT MM PLAQUE (11.00)
STA 591+36 RT NO U-TURN
STA 628+32 RT NO U-TURN

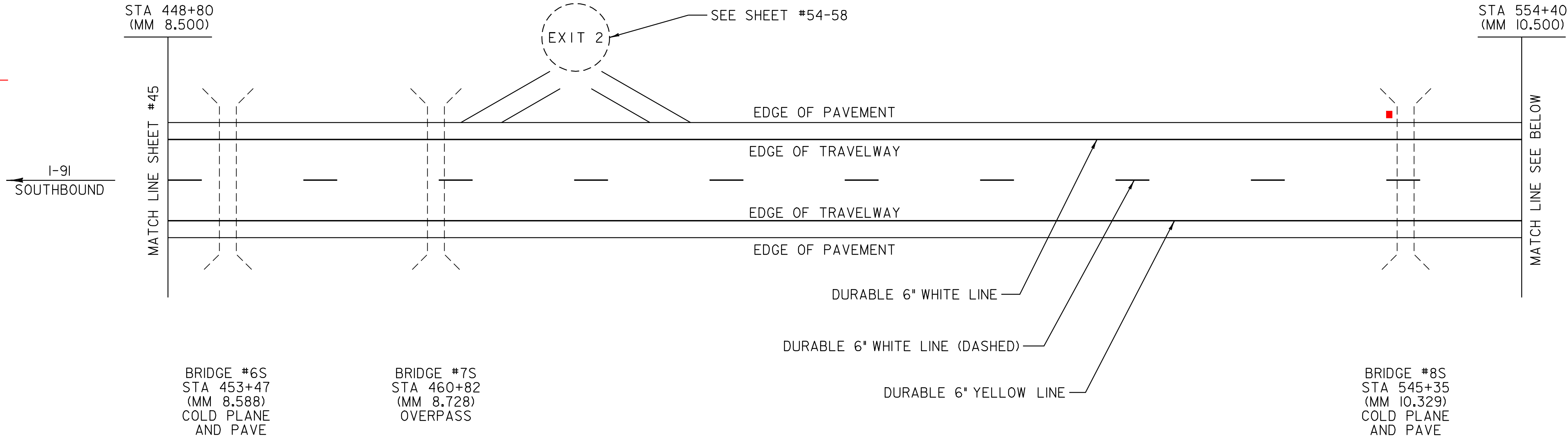
REMOVING SIGNS

STA 463+06 RT NO U-TURN
STA 475+20 LT MM PLAQUE (9.00)
STA 498+96 RT NO U-TURN
STA 528+00 LT MM PLAQUE (10.00)
STA 580+80 LT MM PLAQUE (11.00)
STA 591+36 RT NO U-TURN
STA 628+32 RT NO U-TURN

DELINEATORS

REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

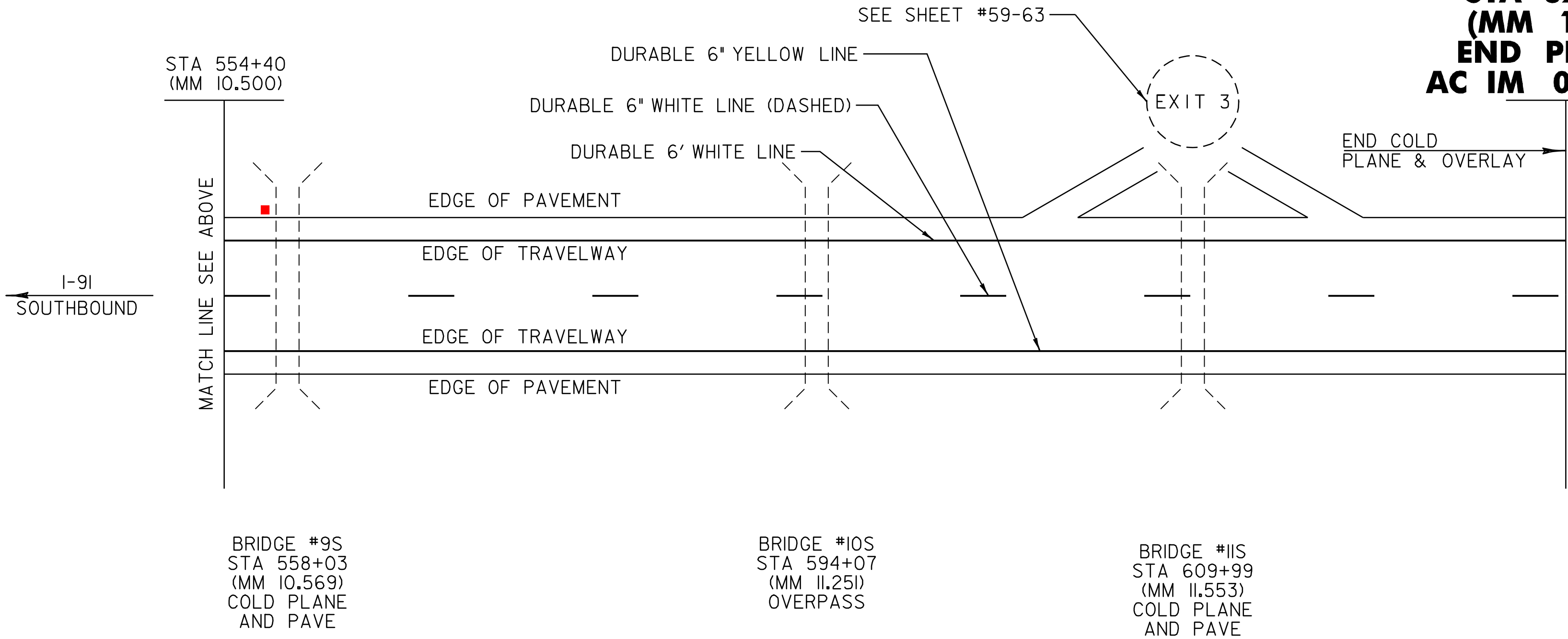
604.40 CHANGING ELEV. OF DROP
INLET, CB, MANHOLE, OFF ROAD
SB STA 513+29 MED. RT.
SB STA 599+90 MED. RT.
SB STA 607+35 MED. RT.



INTERSTATE ROUTE 91 SB
STA 629+38
(MM 11.920)
END PROJECT
AC IM 091-1 (54)

604.412 REHAB DI CB + MH CLASS I

STA 459+98 LT
STA 461+94 LT
STA 462+94 LT
STA 464+48 LT
STA 475+25 LT
STA 465+43 LT
STA 467+01 LT
STA 467+01 MED. RT OFF ROAD
STA 451+00 MED. RT OFF ROAD
STA 552+25 MED. RT OFF ROAD
@ SOUTH SIDE BR. 8S
@ SOUTH SIDE BR. 9S



SEE PROJECT PAVING LIMITS TABLE ON
PROJECT TYPICAL SHEET I FOR ROADWAY
DIMENSIONS.

DATUM
VERTICAL _____
HORIZONTAL _____

NOT TO SCALE

**PAVING
PROJECT
LAYOUT #2**

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-1(54)

FILE NAME: 05A0141s02.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 05-0387
PLOT DATE: 22-JAN-2009 13:4
DRAWN BY: MRS
CHECKED BY: NLL
SHEET 46 OF 69

TEMPORARY AND DURABLE 6" WHITE LINE

ON RAMP 1+48 TO 10+00 SOLID RT

TEMPORARY AND DURABLE 6" YELLOW LINE

ON RAMP 1+48 TO 10+00 SOLID LT

REHABING DI, CB OR MH

ON OFF RAMP 1+58 RT (RAMP A) CLASS I

ON OFF RAMP 3+62 RT (RAMP A) CLASS I

ON OFF RAMP 5+60 RT (RAMP A) CLASS I

ON OFF RAMP 8+09 RT (RAMP A) CLASS I

ON OFF RAMP 9+51 RT (RAMP A) CLASS I

DELINEATORS

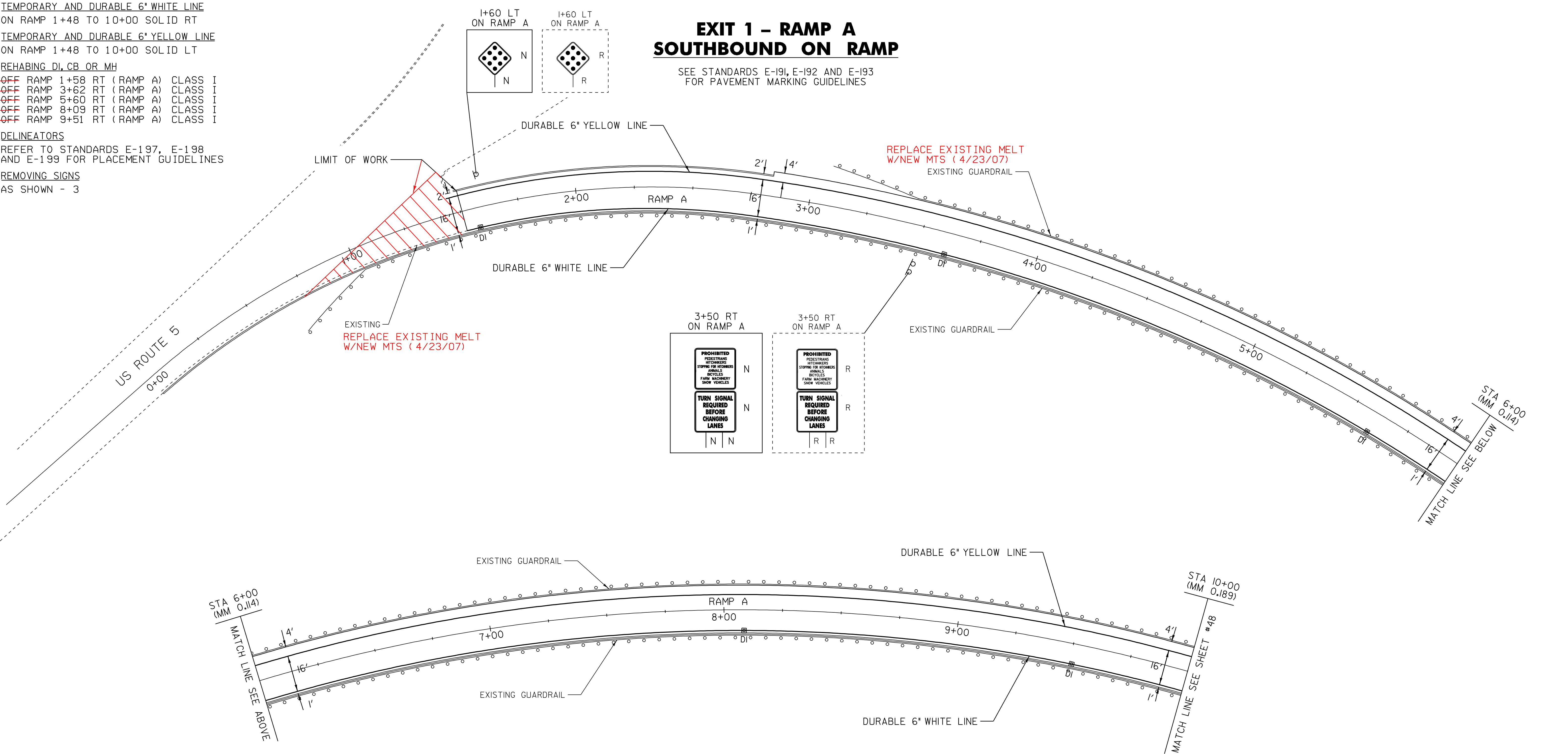
REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

REMOVING SIGNS

AS SHOWN - 3

EXIT 1 – RAMP A SOUTHBOUND ON RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



LEGEND

R	=	REMOVE EXISTING
S	=	SALVAGE
R & S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
—○—	=	NEW RAIL
—●—	=	EXISTING RAIL

RAMP DETAIL #1

PROJECT NAME: GUILFORD-BRATTLEBORO	
PROJECT NUMBER: AC IM 091-I(54)	
FILE NAME: 05A014-rd01.I	PLOT DATE: 22-JAN-2009 13:40
PROJECT LEADER: CRB	DRAWN BY: MRS
DESIGNED BY: CLD	CHECKED BY: NLL
CLD REF. NO. 05-0387	SHEET 47 OF 69

DATUM	
VERTICAL	_____
HORIZONTAL	_____

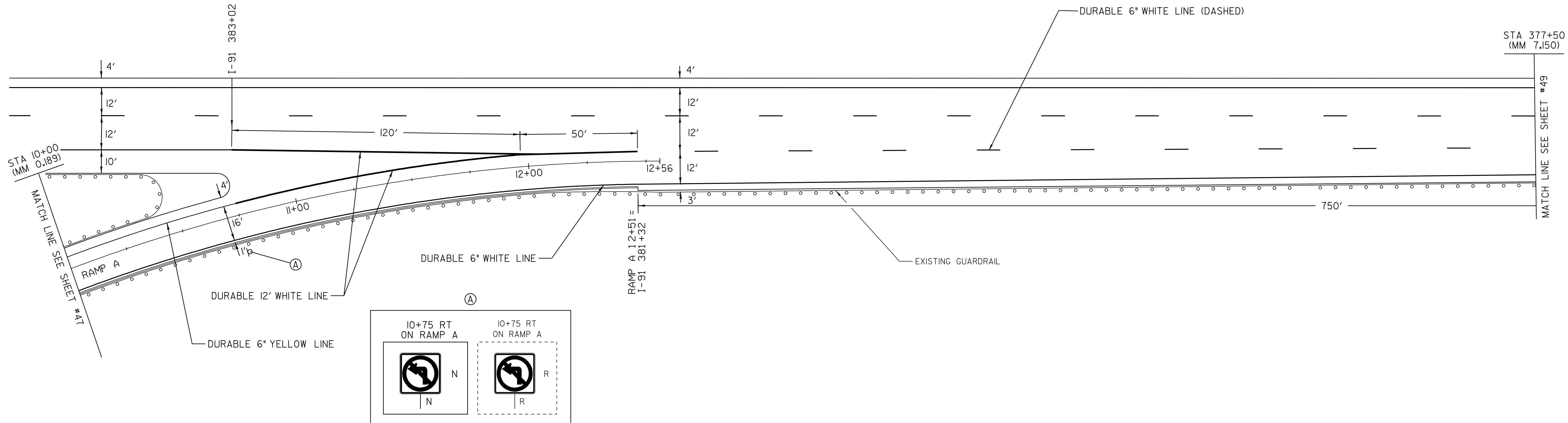
NOT TO SCALE

DELINEATORS
REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

REMOVING SIGNS
AS SHOWN - 1

EXIT 1 – RAMP A SOUTHBOUND ON RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



LEGEND

R	=	REMOVE EXISTING
S	=	SALVAGE
R & S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
—	=	NEW RAIL
— —	=	EXISTING RAIL

RAMP DETAIL #2

PROJECT NAME:	GUILFORD-BRATTLEBORO
PROJECT NUMBER:	AC IM 09I-1(54)

FILE NAME: 05A014r.d02.I	PLOT DATE: 22-JAN-2009 13:40
PROJECT LEADER: CRB	DRAWN BY: MRS
DESIGNED BY: CLD	CHECKED BY: NLL
CLD REF. NO. 05-0387	SHEET 48 OF 69

DATUM

VERTICAL _____

HORIZONTAL _____

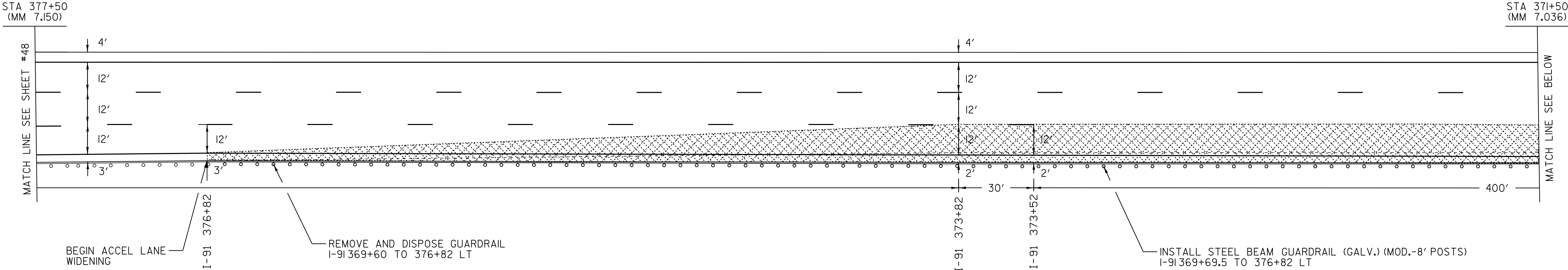
NOT TO SCALE

TEMPORARY AND DURABLE 6" WHITE LINE
I-91 373+52 TO 377+50 DASHED LT
REMOVAL AND DISP. GUARDRAIL
I-91 369+60 TO 376+82 LT
STEEL BEAM GUARDRAIL (GALV.) (MOD.- 8' POSTS)
I-91 369+69.5 TO 376+82 LT

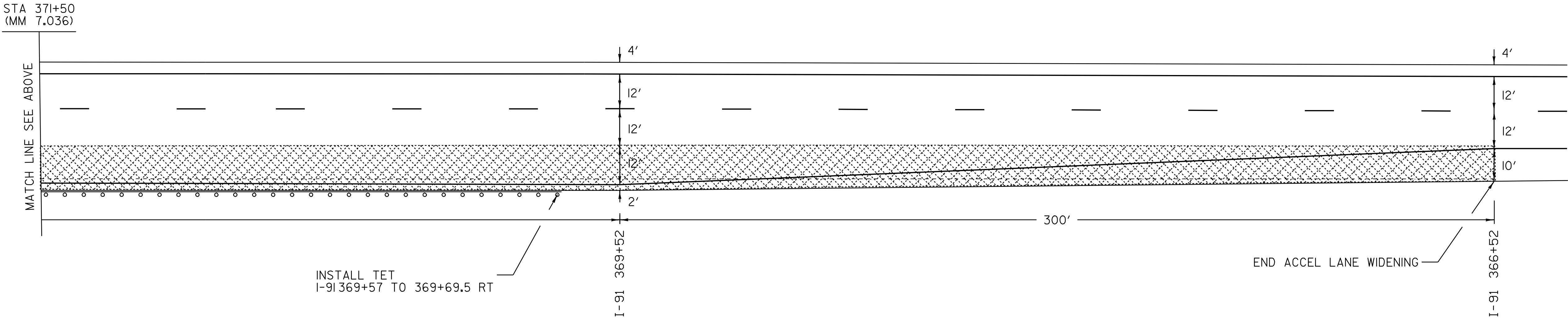
TRAILING END TERMINAL (TET)
I-91 369+57 TO 369+69.5 LT
DELINEATORS
REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

EXIT 1 – RAMP A
SOUTHBOUND ON RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



NOTE: REFER TO LANE WIDENING DETAILS ON SHEET 6.



LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R & S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = NEW RAIL
- - - = EXISTING RAIL
- XXXX = SHADED AREA EXCAVATE 6" / TYPE IS

RAMP
DETAIL #3

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-K(54)

FILE NAME: 05A014rd03.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 05-0387

PLOT DATE: 22-JAN-2009 13:40
DRAWN BY: MRS
CHECKED BY: NLL
SHEET 49 OF 69

DATUM

VERTICAL _____

HORIZONTAL _____

NOT TO SCALE

TEMPORARY AND DURABLE 6" WHITE LINE

ON RAMP 0+72 TO 4+00 SOLID RT (RAMP D)
OFF RAMP 1+11 TO 1+94 SOLID RT (RAMP C)
OFF RAMP 9+55 TO 13+16 SOLID RT (RAMP B)

TEMPORARY AND DURABLE 6" YELLOW LINE

OFF RAMP 0+00 TO 1+94 SOLID LT (RAMP C)
ON RAMP 0+72 TO 4+00 SOLID LT (RAMP D)
OFF RAMP 9+55 TO 10+58 SOLID LT (RAMP B/C)
OFF RAMP 11+69 TO 13+16 SOLID LT (RAMP B)

TEMPORARY AND DURABLE 12" WHITE LINE

OFF RAMP 0+93 TO 1+11 SOLID RT (RAMP C)
OFF RAMP 11+51 TO 11+69 SOLID LT (RAMP B)

TEMPORARY AND DURABLE 24" STOP BAR

OFF RAMP 1+87 CL (RAMP C)

TEMPORARY AND DURABLE LETTER OR SYMBOL

OFF RAMP 1+79 CL- "STOP" (RAMP C)
OFF RAMP 10+64 CL- WRONG WAY ARROW (RAMP C) CLASS I
OFF RAMP 13+01 CL- "4 YIELD MARKINGS" (RAMP B)

PAINTED CURB

OFF RAMP 1+09 TO 1+39 RT (RAMP C)
OFF RAMP 11+70 TO 12+00 LT (RAMP B)
OFF RAMP 12+86 TO 13+16 LT (RAMP B)

BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS

ON RAMP 1+46 RT (PAVE ONLY) (RAMP D)
ON RAMP 2+37 RT (PAVE ONLY) (RAMP D)
ON RAMP 3+48 RT (PAVE ONLY) (RAMP D)
OFF RAMP 11+81 RT (PAVE ONLY) (RAMP B)
OFF RAMP 12+73 RT (PAVE ONLY) (RAMP B)

REHABING DI, CB OR MH

~~OFF RAMP 1+85 RT (RAMP C) CLASS II~~
OFF RAMP 1+94 RT (RAMP C) CLASS I

REMOVAL OF EXISTING CURB

OFF RAMP STA 0+94 TO 1+94 LT (RAMP C)

DELINEATORS

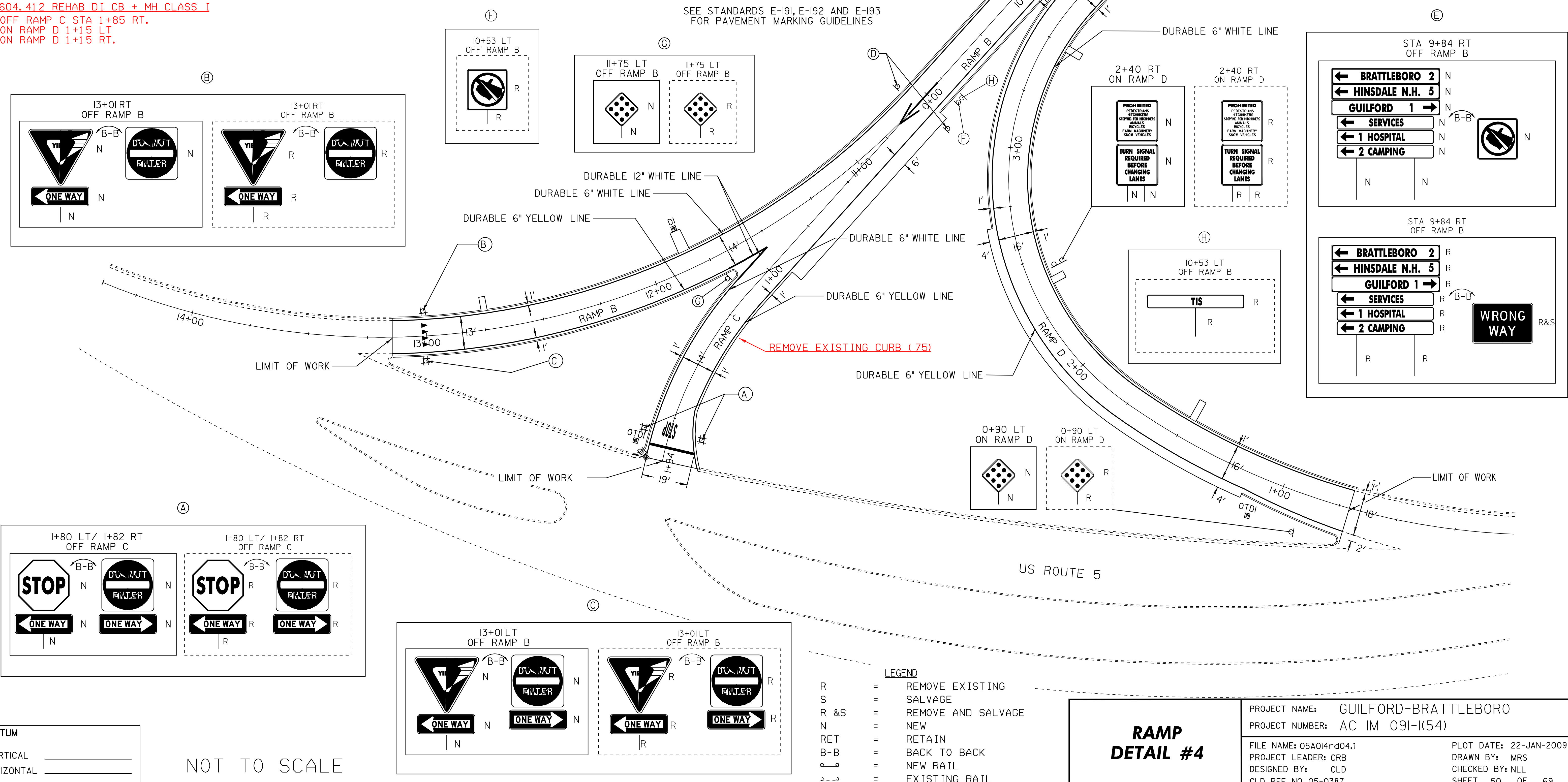
REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

REMOVING SIGNS

AS SHOWN - 30

EXIT 1 - RAMP B/C/D
SOUTHBOUND ON/OFF RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



DATUM	
VERTICAL	
HORIZONTAL	

NOT TO SCALE

R	=	REMOVE EXISTING
S	=	SALVAGE
R & S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
	=	NEW RAIL
	=	EXISTING RAIL

RAMP DETAIL #4	PROJECT NAME: GUILFORD-BRATTLEBORO	
	PROJECT NUMBER: AC IM 091-K(54)	
	FILE NAME: 05A014rd04.1	PLOT DATE: 22-JAN-2009 13:40
	PROJECT LEADER: CRB	DRAWN BY: MRS
	DESIGNED BY: CLD	CHECKED BY: NLL
	CLD REF. NO. 05-0387	SHEET 50 OF 69

TEMPORARY AND DURABLE 6" WHITE LINE
OFF RAMP 3+00 TO 9+55 SOLID RT (RAMP B)
ON RAMP 4+00 TO 10+00 SOLID RT (RAMP D)
TEMPORARY AND DURABLE 6" YELLOW LINE
OFF RAMP 3+00 TO 9+55 SOLID LT (RAMP B)
ON RAMP 4+00 TO 10+00 SOLID LT (RAMP D)
TEMPORARY AND DURABLE LETTER OR SYMBOL
OFF RAMP 8+06 CL "STOP" (RAMP B)
OFF RAMP 8+46 CL "AHEAD" (RAMP B)

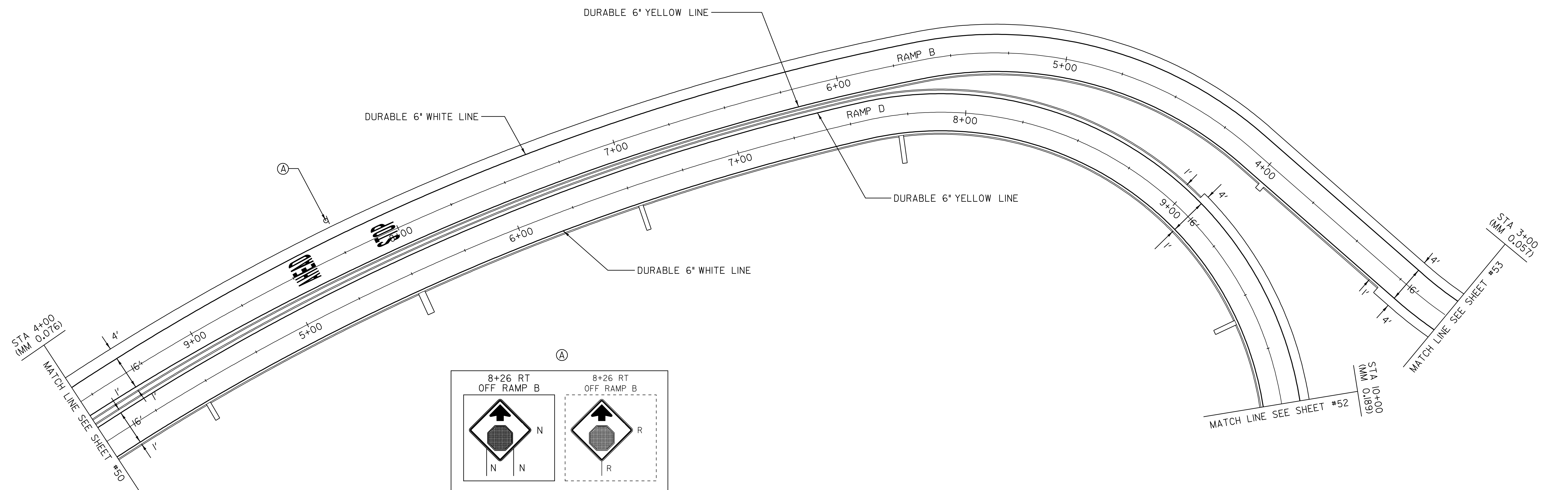
BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
ON RAMP 4+45 RT (PAVE ONLY) (RAMP D)
ON RAMP 5+49 RT (PAVE ONLY) (RAMP D)
ON RAMP 6+52 RT (PAVE ONLY) (RAMP D)
ON RAMP 7+70 RT (PAVE ONLY) (RAMP D)
ON RAMP 9+58 RT (PAVE ONLY) (RAMP D)

DELINEATORS
REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

REMOVING SIGNS
AS SHOWN - 1

EXIT 1 - RAMP B/D
SOUTHBOUND ON/OFF RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



DATUM	
VERTICAL	_____
HORIZONTAL	_____

NOT TO SCALE

LEGEND	
R	= REMOVE EXISTING
S	= SALVAGE
R & S	= REMOVE AND SALVAGE
N	= NEW
RET	= RETAIN
B-B	= BACK TO BACK
—○—	= NEW RAIL
—●—	= EXISTING RAIL

RAMP DETAIL #5	PROJECT NAME: GUILFORD-BRATTLEBORO	
	PROJECT NUMBER: AC IM 091-I(54)	
	FILE NAME: 05A014r-d05.1	PLOT DATE: 22-JAN-2009 13:41
	PROJECT LEADER: CRB	DRAWN BY: MRS
DESIGNED BY: CLD		CHECKED BY: NLL
CLD REF. NO. 05-0387		SHEET 51 OF 69

PROJECT NAME: GUILFORD-BRATTLEBORO	
PROJECT NUMBER: AC IM 091-I(54)	
FILE NAME: 05A014r-d06.1	PLOT DATE: 22-JAN-2009 13
PROJECT LEADER: CRB	DRAWN BY: MRS
DESIGNED BY: CLD	CHECKED BY: NLL
CLD REF. NO. 05-0387	SHEET 52 OF 69

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OFF RAMP      1+05 TO      3+00 SOLID RT ( RAMP B)
I-91          402+07 TO    404+82 DASHED LT
I-91          404+82 TO    410+57 DOTTED LT

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OFF RAMP 1+05 TO 3+00 SOLID LT (RAMP B)

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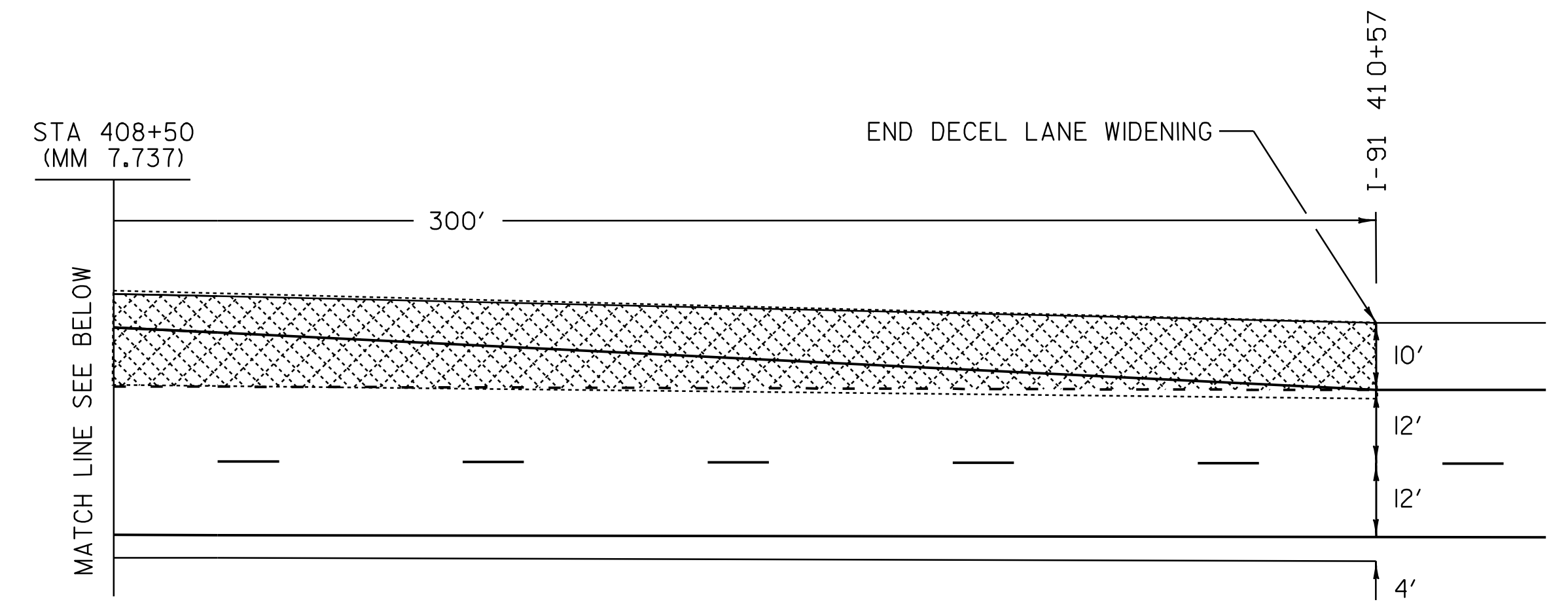
OFF RAMP          0+56 T0    1+05 SOL ID RT
I-91             401+07 T0   402+07 SOL ID LT
GORE STRIPES     401+07 T0   401+57 SOL ID LT

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OFF RAMP 1+83 RT (PAVE ONLY) (RAMP B)

REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



R	=	REMOVE EXISTING
S	=	SALVAGE
R & S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
	=	NEW RAIL
	=	EXISTING RAIL
	=	SHADED AREA EXCAVATE 6' / TYPE IS

**RAMP
DETAIL #7**

FILE NAME: 05A014r-d07.
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 05-0387

PLOT DATE: 22-JAN-2009 13:4
DRAWN BY: MRS
CHECKED BY: NLL
SHEET 53 OF 69

VERTICAL _____

HORIZONTAL _____

NOT TO SCALE

TEMPORARY AND DURABLE 6" WHITE LINE

ON RAMP 0+52 TO 6+00 SOLID RT (RAMP C)
OFF RAMP 0+52 TO 0+81 SOLID LT (RAMP D)
OFF RAMP 0+64 TO 6+00 SOLID LT (RAMP D)
OFF RAMP 1+50 TO 2+84 DASHED LT (RAMP D)

TEMPORARY AND DURABLE 6" YELLOW LINE

OFF RAMP 0+55 TO 0+82 SOLID LT (ISLAND)
OFF RAMP 0+55 TO 6+00 SOLID RT (RAMP D/C)
ON RAMP 0+55 TO 6+00 SOLID LT (RAMP C/D)

TEMPORARY AND DURABLE 24" STOP BAR

OFF RAMP 0+55 LT
OFF RAMP 0+64 LT

TEMPORARY AND DURABLE 12" WHITE LINE

OFF RAMP 0+81 TO 1+02 SOLID LT
OFF RAMP 0+81 TO 1+50 SOLID LT

TEMPORARY AND DURABLE LETTER OR SYMBOL

OFF RAMP 0+63 LT - "STOP" (RAMP D)
OFF RAMP 0+63 LT - "STOP" (RAMP D)
OFF RAMP 1+46 LT - RIGHT TURN ARROW (RAMP D)
OFF RAMP 2+17 LT - "ONLY" (RAMP D)
OFF RAMP 2+80 LT - RIGHT TURN ARROW (RAMP D)
OFF RAMP 3+55 LT - WRONG WAY ARROW (RAMP D)

BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS

OFF RAMP 2+35 LT(PAVE ONLY)(RAMP D)

PAINTED CURB

STA 0+75 TO 1+05 LT & RT
STA 3+54 TO 3+84 LT & RT

REHABING DI,CB OR MH

OFF RAMP 0+87 LT (RAMP D) CLASS I
ON RAMP 0+87 RT (RAMP C) CLASS I

DELINEATORS

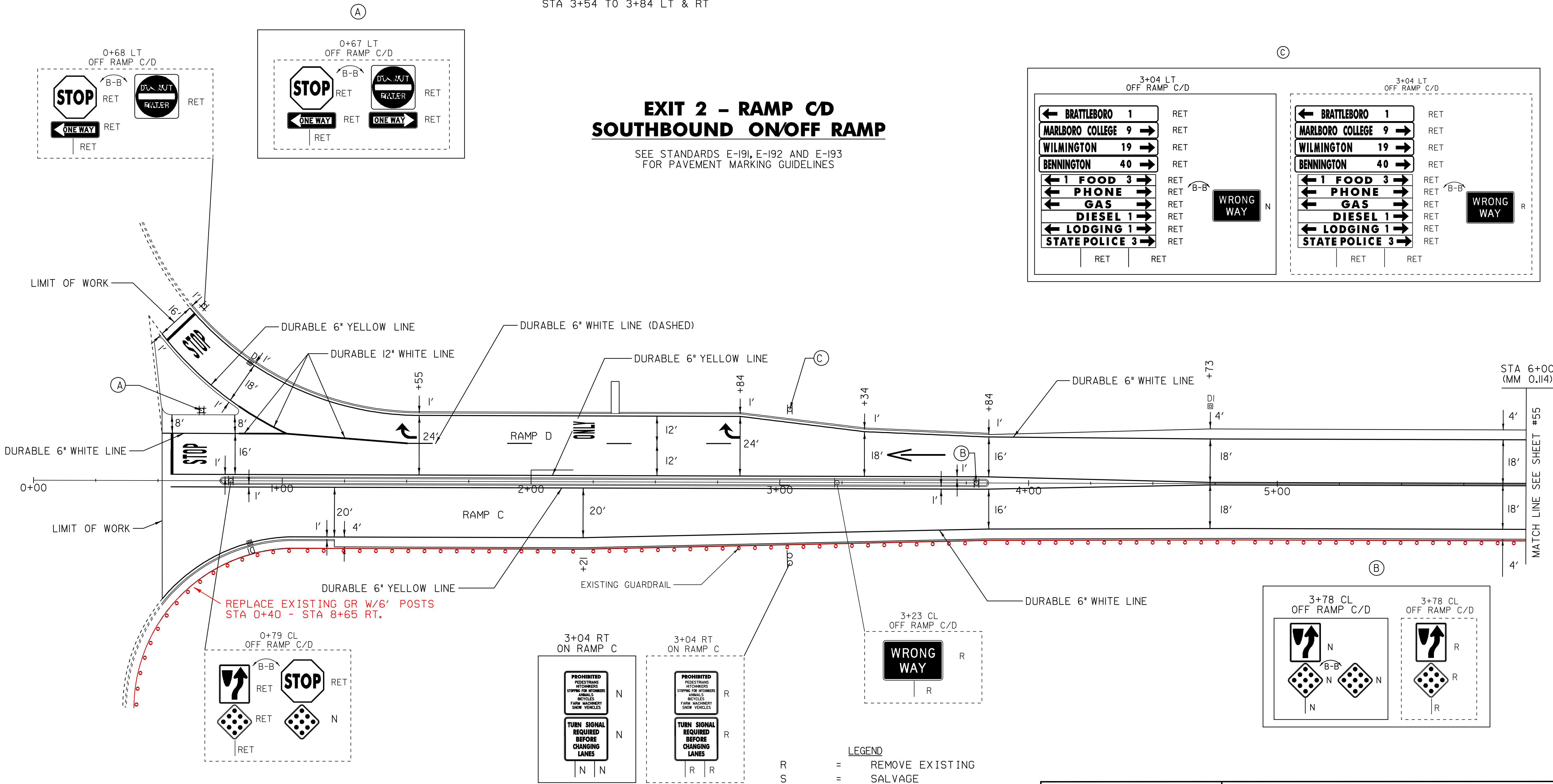
REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

REMOVING SIGNS

AS SHOWN - 6

EXIT 2 - RAMP CD
SOUTHBOUND ON/OFF RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



- LEGEND
- R = REMOVE EXISTING
 - S = SALVAGE
 - R & S = REMOVE AND SALVAGE
 - N = NEW
 - RET = RETAIN
 - B-B = BACK TO BACK
 - = NEW RAIL
 - = EXISTING RAIL

RAMP
DETAIL #8

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 09I-K(54)

FILE NAME: 05A014rd08.I
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 05-0387

PLOT DATE: 22-JAN-2009 13:41
DRAWN BY: MRS
CHECKED BY: NLL
SHEET 54 OF 69

DATUM

VERTICAL _____
HORIZONTAL _____

NOT TO SCALE

OFF RAMP 6+00 TO 12+00 SOLID LT (RAMP D)
ON RAMP 6+00 TO 12+00 SOLID RT (RAMP C)

OFF RAMP 6+00 TO 12+00 SOLID LT (RAMP D)
ON RAMP 6+00 TO 12+00 SOLID RT (RAMP C)

OFF RAMP 6+52 LT - " AHEAD" (RAMP D)
OFF RAMP 6+92 LT - " STOP" (RAMP D)

OFF RAMP 9+35 LT (PAVE ONLY) (RAMP D)

REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

AS SHOWN - 1

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



REPLACE EXISTING GR W/8' POSTS
STA 8+65 - STA 13+25 RT.

R	=	REMOVE EXISTING
S	=	SALVAGE
R & S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
	=	NEW RAIL
	=	EXISTING RAIL

FILE NAME: 05A014rd09.i	PLOT DATE: 22-JAN-2009 13:4
PROJECT LEADER: CRB	DRAWN BY: MRS
DESIGNED BY: CLD	CHECKED BY: NLL
CLD REF. NO. 05-0387	SHEET 55 OF 69

NOT TO SCALE

DATUM _____

VERTICAL _____

HORIZONTAL _____

TEMPORARY AND DURABLE 6" WHITE LINE
ON RAMP 0+00 TO 5+50 SOLID RT (RAMP C)
OFF RAMP 7+50 TO 11+88 SOLID RT (RAMP D)
OFF RAMP 12+00 TO 14+02 SOLID RT (RAMP C/D)
ON RAMP 12+00 TO 14+02 SOLID LT (RAMP C/D)
I-91 472+50 TO 475+07 DASHED LT

TEMPORARY AND DURABLE 6" YELLOW LINE
ON RAMP 0+00 TO 5+50 SOLID LT (RAMP C)
OFF RAMP 7+50 TO 11+88 SOLID LT (RAMP D)
OFF RAMP 12+00 TO 14+02 SOLID LT (RAMP C/D)
ON RAMP 12+00 TO 14+02 SOLID RT (RAMP C/D)

TEMPORARY AND DURABLE 12" WHITE LINE
ON RAMP 5+50 TO 6+24 SOLID LT (RAMP C)
I-91 475+07 TO 476+32 SOLID LT

REMOVAL AND DISP. GUARDRAIL
I-91 472+50 TO 473+93 LT

STEEL BEAM GUARDRAIL (GALV.) (MOD.-8' POSTS)
I-91 472+50 TO 473+93 LT

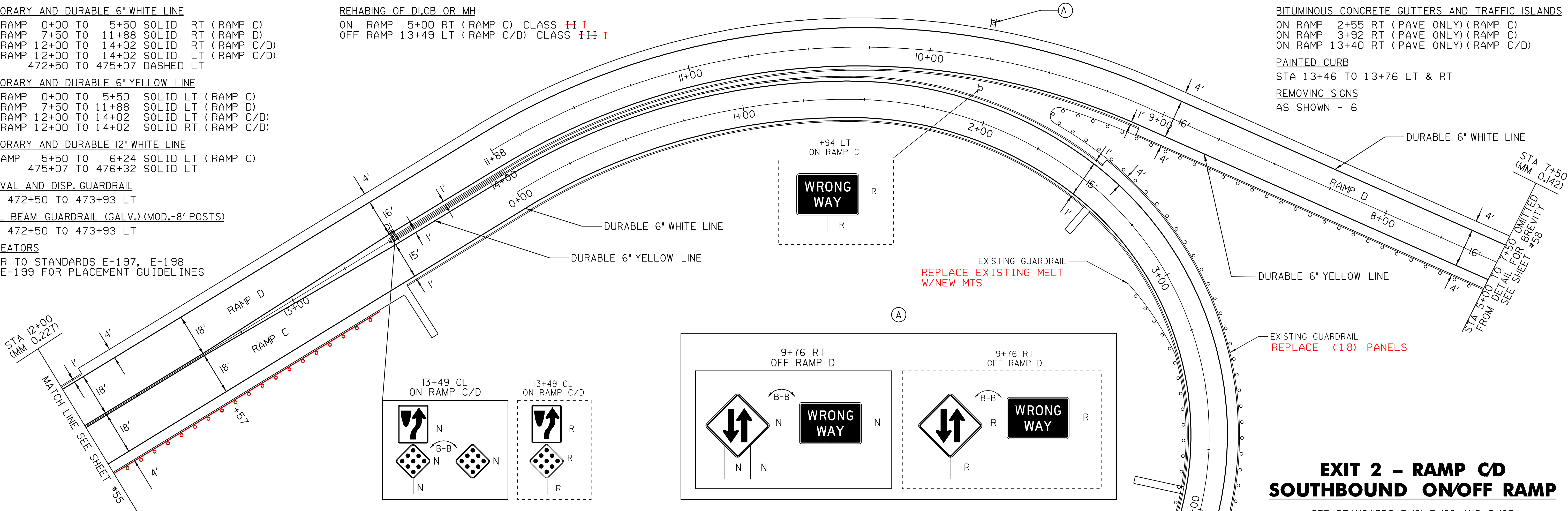
DELINEATORS
REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

REHABING OF DI,CB OR MH
ON RAMP 5+00 RT (RAMP C) CLASS ~~H~~ I
OFF RAMP 13+49 LT (RAMP C/D) CLASS ~~III~~ I

BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS
ON RAMP 2+55 RT (PAVE ONLY) (RAMP C)
ON RAMP 3+92 RT (PAVE ONLY) (RAMP C)
ON RAMP 13+40 RT (PAVE ONLY) (RAMP C/D)

PAINTED CURB
STA 13+46 TO 13+76 LT & RT

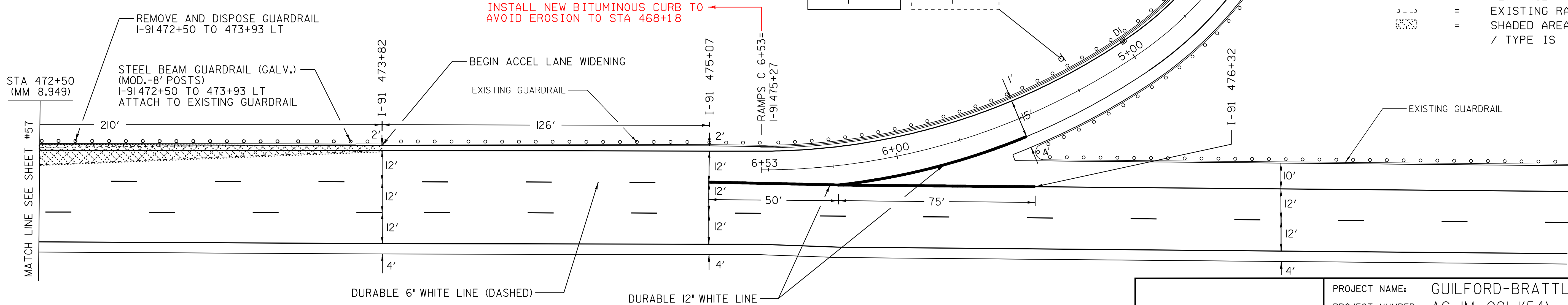
REMOVING SIGNS
AS SHOWN - 6



REPLACE EXISTING GR W/8' POSTS
STA 8+65 - STA 13+25 RT.

REHAB EXSTING THROAT DI LOCATED
IN SIDE SLOPE PER BRIAN THOMPSON (10/25/06)

NOTE: REFER TO LANE WIDENING DETAILS ON SHEET 6.



EXIT 2 - RAMP CD SOUTHBOUND ON/OFF RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES

LEGEND		
R	=	REMOVE EXISTING
S	=	SALVAGE
R & S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
	=	NEW RAIL
	=	EXISTING RAIL
	=	SHADED AREA EXCAVATE 6\"/>

DATUM	
VERTICAL	_____
HORIZONTAL	_____

NOT TO SCALE

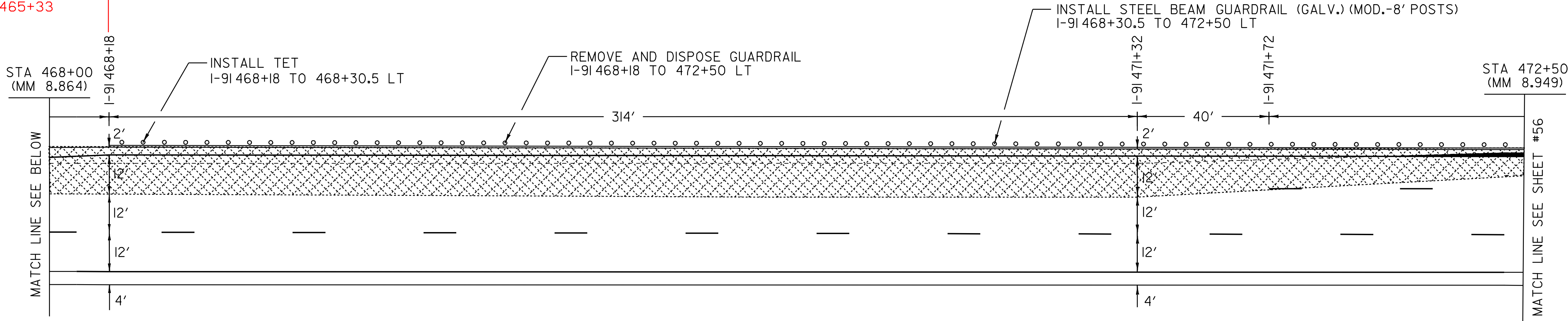
RAMP DETAIL #10	
PROJECT NAME: GUILFORD-BRATTLEBORO	PROJECT NUMBER: AC IM 091-K(54)
FILE NAME: 05A014r.d10.1	PLOT DATE: 22-JAN-2009 13:41
PROJECT LEADER: CRB	DRAWN BY: MRS
DESIGNED BY: CLD	CHECKED BY: NLL
CLD REF. NO. 05-0387	SHEET 56 OF 69

TEMPORARY AND DURABLE 6" WHITE LINE
I-91 471+72 TO 472+50 DASHED LT
REMOVAL AND DISP. GUARDRAIL
I-91 468+18 TO 472+50 LT
STEEL BEAM GUARDRAIL (GALV.) (MOD.-8' POSTS)
I-91 468+30.5 TO 472+50 LT
TRAILING END TERMINAL (TET)
I-91 468+18 TO 468+30.5 LT
DELINEATORS
REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

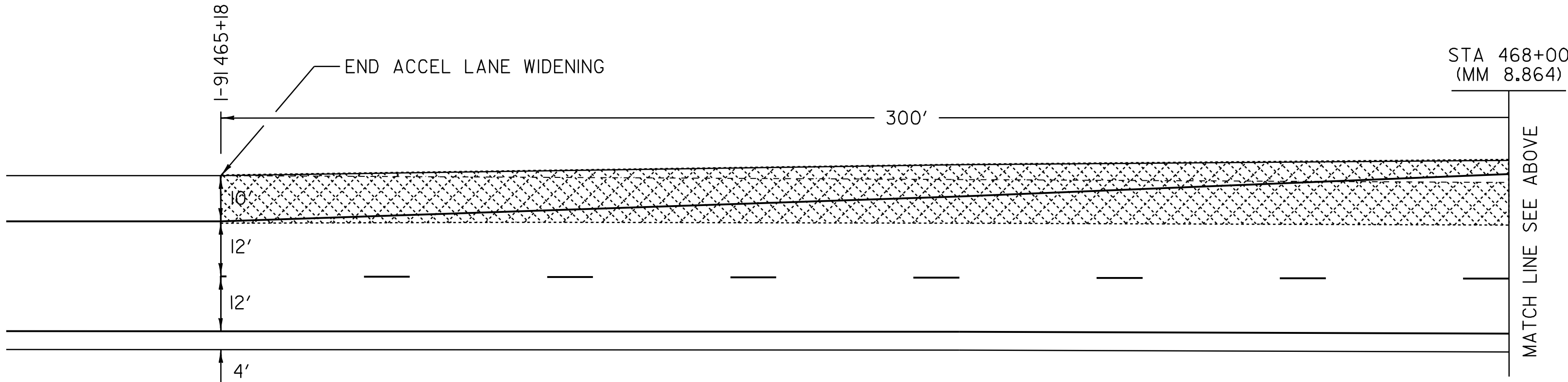
EXIT 2 – RAMP C
SOUTHBOUND ON RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES

REMOVE AND RESET 285' OF
GRANITE CURB TO STA 465+33



NOTE: REFER TO LANE WIDENING DETAILS ON SHEET 6.



LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R & S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = NEW RAIL
- = EXISTING RAIL
- ▨ = SHADED AREA EXCAVATE 6" / TYPE IS

NOT TO SCALE

RAMP
DETAIL #11

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-I(54)

FILE NAME: 05A014-rd11.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 05-0387

PLOT DATE: 22-JAN-2009 13:41
DRAWN BY: MRS
CHECKED BY: NLL
SHEET 57 OF 69

DATUM	
VERTICAL	_____
HORIZONTAL	_____

EXIT 2 - RAMP D
SOUTHBOUND OFF RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES

TEMPORARY AND DURABLE 6" WHITE LINE

OFF RAMP 1+52 TO 7+50 SOLID RT (RAMP D)
I-91 485+05 TO 487+55 DASHED LT
I-91 487+55 TO 493+00 DOTTED LT

TEMPORARY AND DURABLE 6" YELLOW LINE

OFF RAMP 1+52 TO 7+50 SOLID LT (RAMP D)

TEMPORARY AND DURABLE 12" WHITE LINE

OFF RAMP 0+57 TO 1+52 SOLID LT (RAMP D)
I-91 483+55 TO 485+05 SOLID LT
GORE STRIPES 483+55 TO 484+55 SOLID LT

REMOVAL & DISP. OF GUARDRAIL

OFF RAMP 0+00 TO 4+90 RT
490' +250'

STEEL BEAM GUARDRAIL (GALV.) (MOD.-8' POSTS)

OFF RAMP 0+00 TO 4+75 RT

TRAILING END TERMINAL (TET)

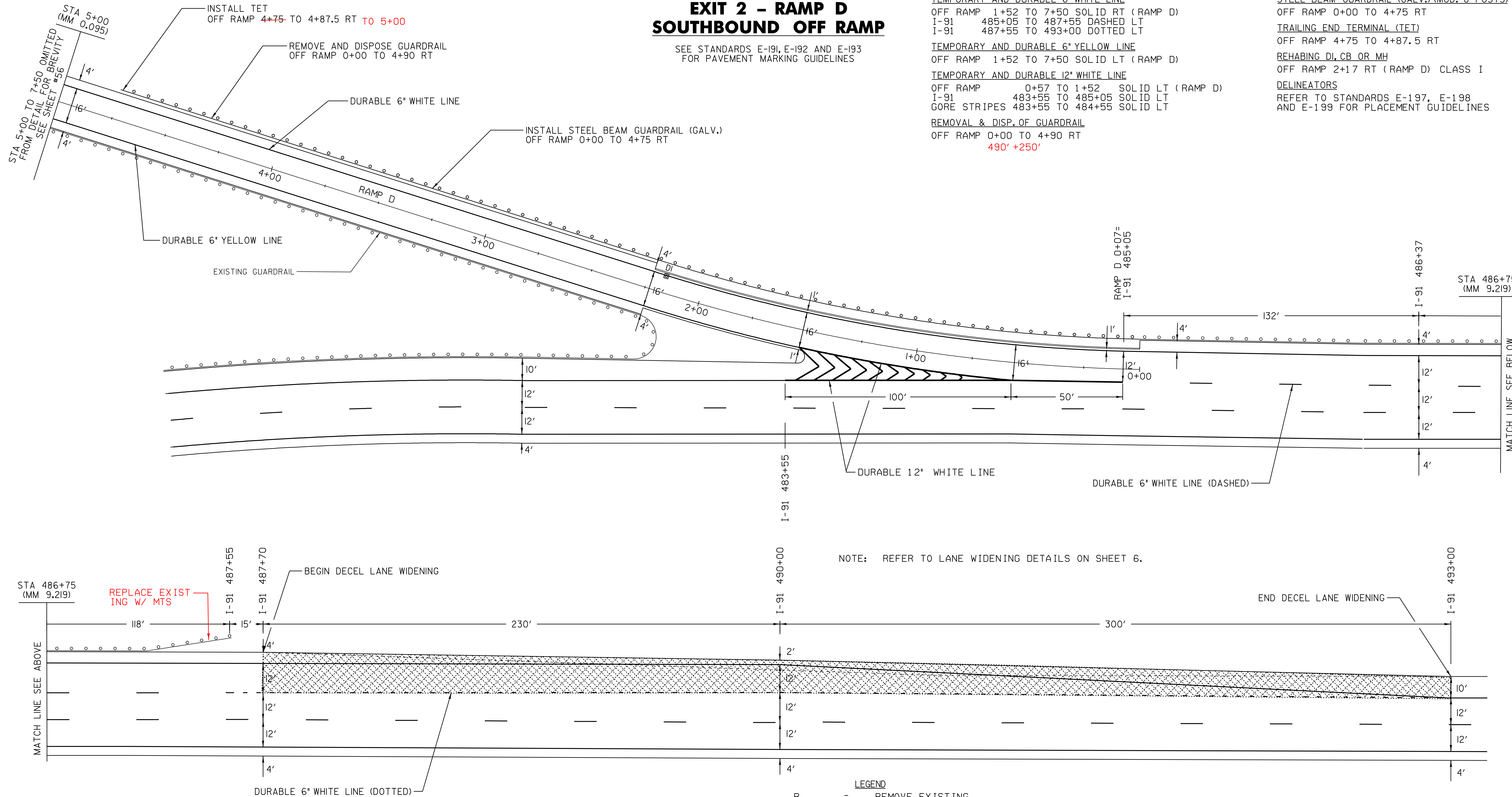
OFF RAMP 4+75 TO 4+87.5 RT

REHABING DL, CB OR MH

OFF RAMP 2+17 RT (RAMP D) CLASS I

DELINEATORS

REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES



NOTE: REFER TO LANE WIDENING DETAILS ON SHEET 6.

LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R & S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = NEW RAIL
- = EXISTING RAIL
- ▨ = SHADED AREA EXCAVATE 6' / TYPE IS

RAMP
DETAIL #12

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-I(54)

FILE NAME: 05A014r.d12.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 05-0387

PLOT DATE: 22-JAN-2009 13:41
DRAWN BY: MRS
CHECKED BY: NLL
SHEET 58 OF 69

DATUM
VERTICAL _____
HORIZONTAL _____

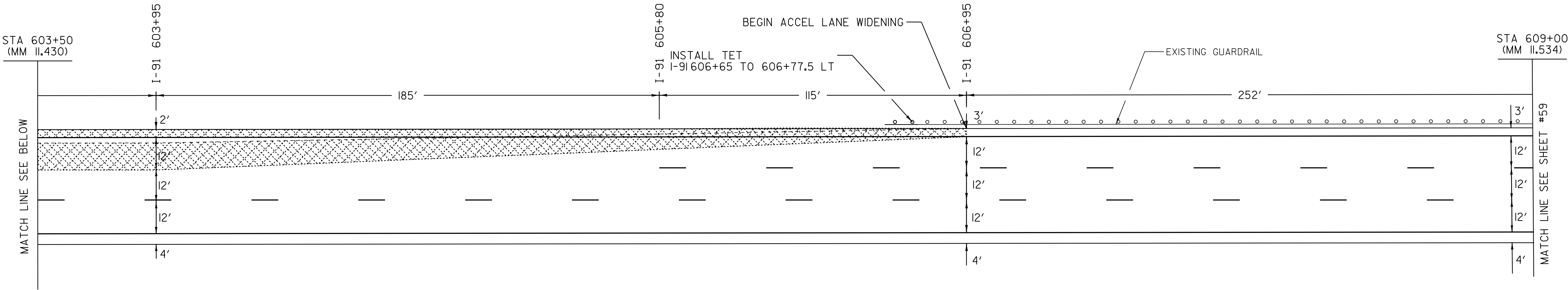
NOT TO SCALE

NOT TO SCALE

TEMPORARY AND DURABLE 6" WHITE LINE
I-91 605+80 TO 609+00 DASHED LT
TRAILING END TERMINAL (TET)
I-91 606+65 TO 606+77.5 LT
DELINEATORS
REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

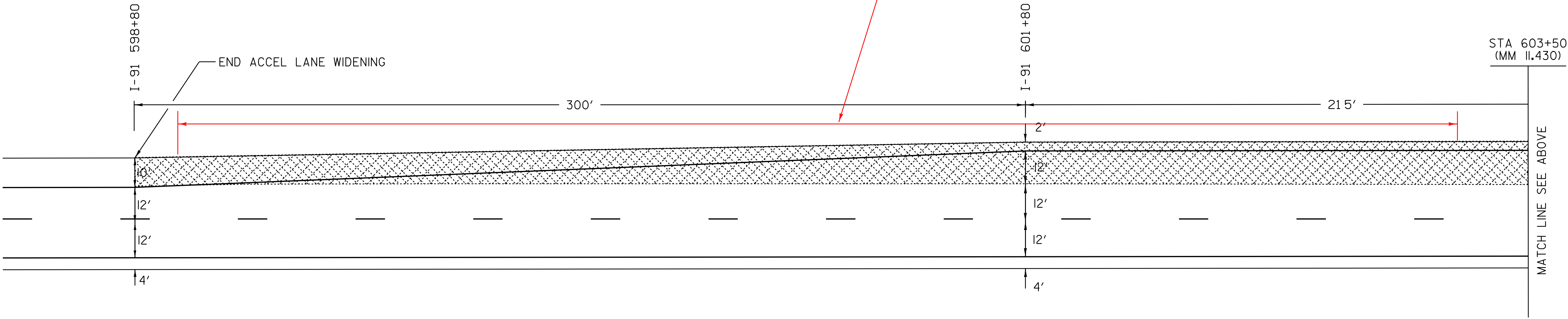
EXIT 3 - RAMP A
SOUTHBOUND ON RAMP

SEE STANDARDS E-I9I, E-I92 AND E-I93
FOR PAVEMENT MARKING GUIDELINES



NOTE: REFER TO LANE WIDENING DETAILS ON SHEET 6.

ADDITIONAL ITEMS:
621.20 - STEEL BEAM G.R. 475' STA 598+42 - STA 603+17 LT. OUTSIDE
621.505 - MTS 37.5' STA 603+17-STA 603+55 LT. OUTSIDE
621.80 - REMOVE MTS 37.5' (SALVAGE TO DISTRICT)
621.52 - (1) TET



LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R & S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = NEW RAIL
- = EXISTING RAIL
- = SHADED AREA EXCAVATE 6" / TYPE IS

NOT TO SCALE

RAMP
DETAIL #14

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 09I-I(54)

FILE NAME: 05A014r-d14.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 05-0387

PLOT DATE: 22-JAN-2009 13:41
DRAWN BY: MRS
CHECKED BY: NLL
SHEET 60 OF 69

DATUM

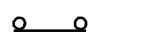
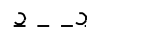
VERTICAL _____
HORIZONTAL _____

DATUM

VERTICAL

HORIZONTAL

NOT TO SCALE

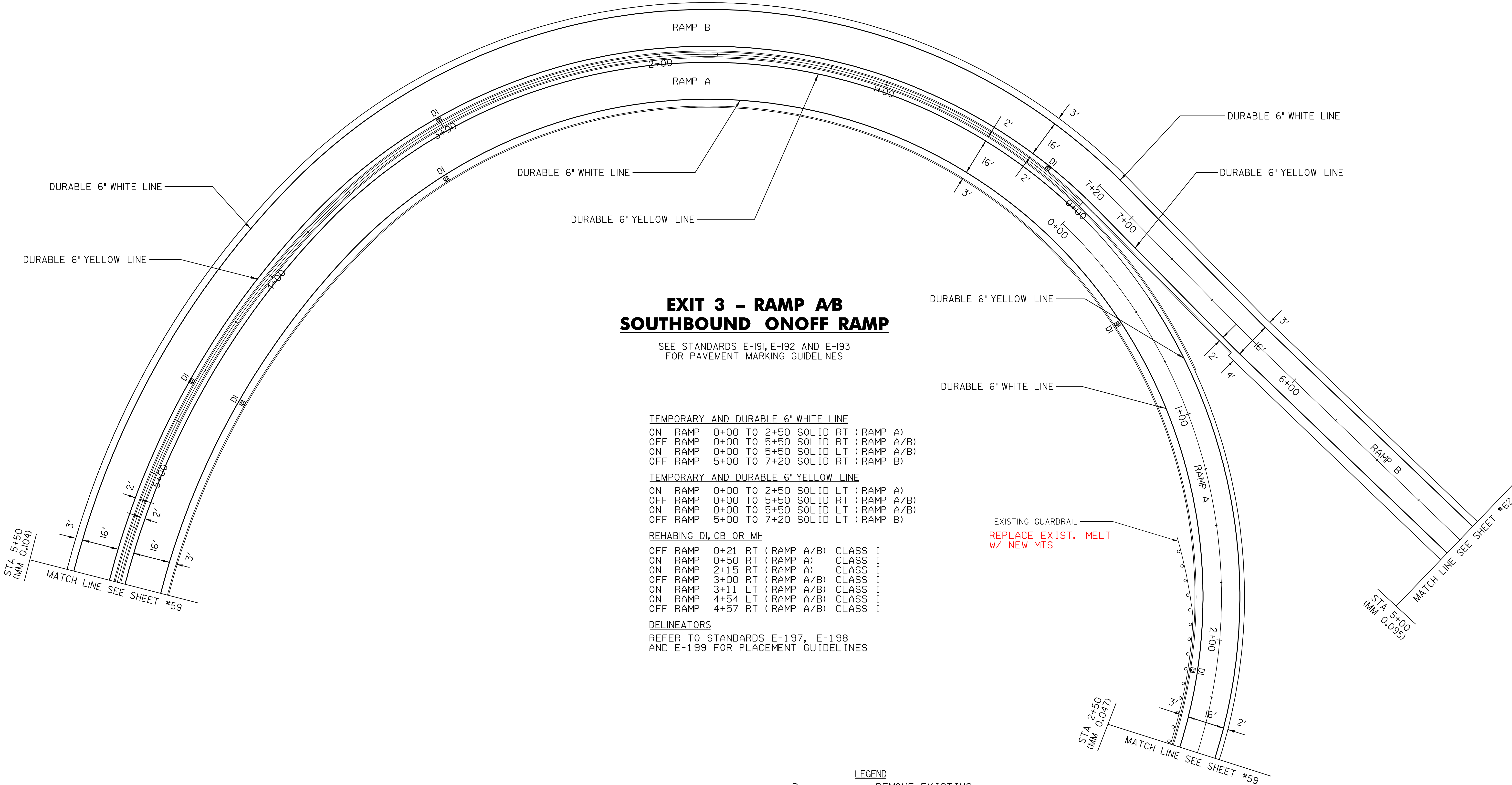
LEGEND		
R	=	REMOVE EXISTING
S	=	SALVAGE
R & S	=	REMOVE AND SALVAGE
N	=	NEW
RET	=	RETAIN
B-B	=	BACK TO BACK
	=	NEW RAIL
	=	EXISTING RAIL

RAMP
DETAIL #15

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 09I-I(54)

FILE NAME: 05A014r.d15.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 05-0387

PLOT DATE: 22-JAN-2009 13:41
DRAWN BY: MRS
CHECKED BY: NLL
SHEET 61 OF 69



TEMPORARY AND DURABLE 6" WHITE LINE
OFF RAMP 1+02 TO 5+00 SOLID RT (RAMP B)
I-91 619+80 TO 620+50 DASHED LT

TEMPORARY AND DURABLE 6" YELLOW LINE
OFF RAMP 1+02 TO 5+00 SOLID LT (RAMP B)

TEMPORARY AND DURABLE 12" WHITE LINE
OFF RAMP 0+53 TO 1+02 SOLID LT (RAMP B)
I-91 618+70 TO 619+80 SOLID LT
GORE STRIPES 618+70 TO 619+30 SOLID LT

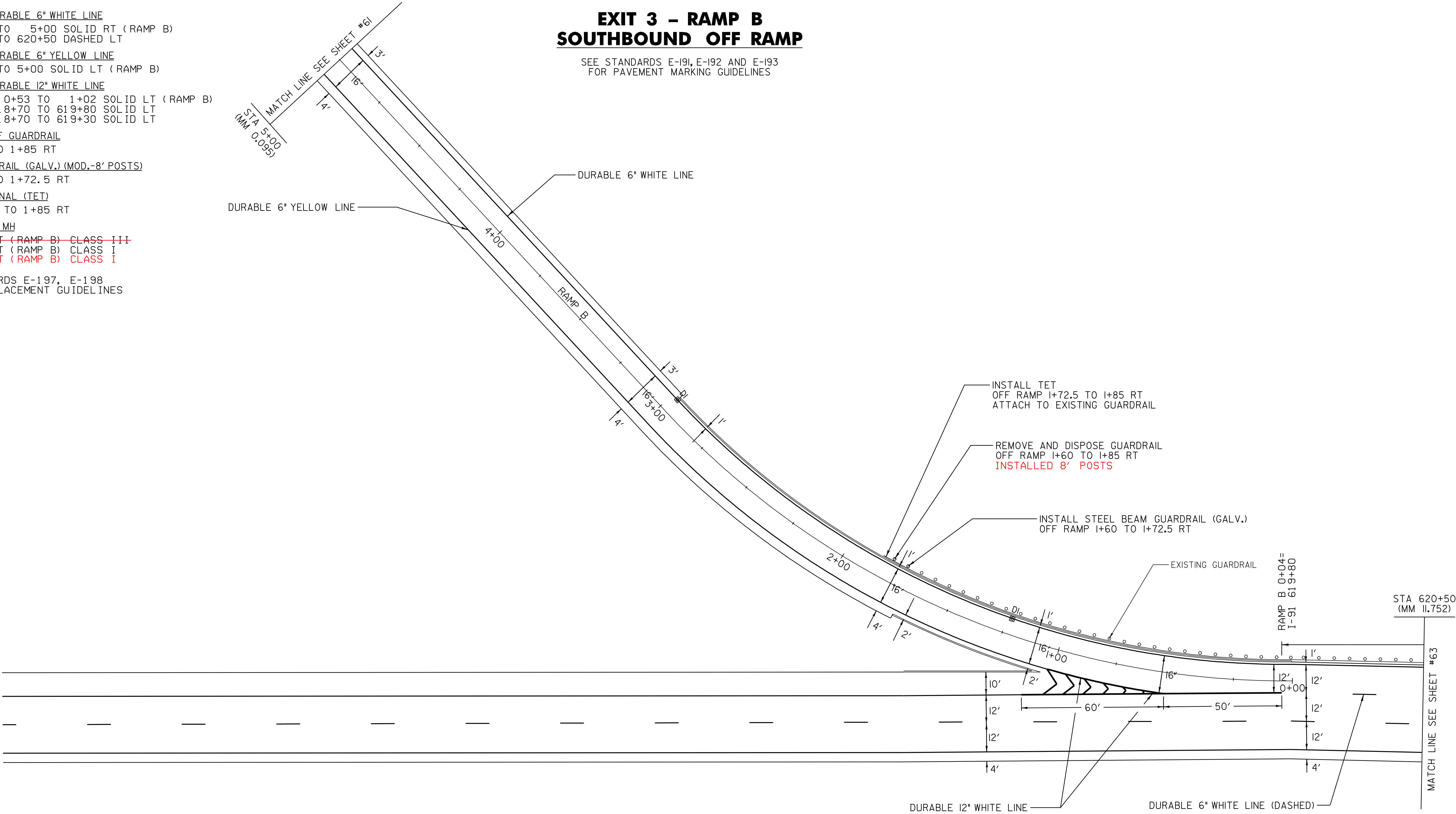
REMOVAL & DISP. OF GUARDRAIL
OFF RAMP 1+60 TO 1+85 RT
STEEL BEAM GUARDRAIL (GALV.) (MOD.-8' POSTS)
OFF RAMP 1+60 TO 1+72.5 RT

TRAILING END TERMINAL (TET)
OFF RAMP 1+72.5 TO 1+85 RT

REHABING DI, CB OR MH
~~OFF RAMP 1+23 RT (RAMP B) CLASS III~~
~~OFF RAMP 2+97 RT (RAMP B) CLASS I~~
~~OFF RAMP 1+23 RT (RAMP B) CLASS I~~
DELINEATORS
REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

EXIT 3 – RAMP B
SOUTHBOUND OFF RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES



LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R & S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = NEW RAIL
- = EXISTING RAIL

RAMP
DETAIL #16

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-(54)

FILE NAME: 05A014r.dwg
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 05-0387

PLOT DATE: 22-JAN-2009 13:41
DRAWN BY: MRS
CHECKED BY: NLL
SHEET 62 OF 69

DATUM

VERTICAL _____
HORIZONTAL _____

NOT TO SCALE

TEMPORARY AND DURABLE 6" WHITE LINE
I-91 620+50 TO 621+90 DASHED LT
I-91 621+90 TO 627+00 DOTTED LT

REMOVAL & DISP.OF GUARDRAIL
I-91 625+62 TO 627+00 LT

STEEL BEAM GUARDRAIL (GALV.) (MOD.-8' POSTS)

I-91 625+74.5 TO 627+00 LT

TRAILING END TERMINAL (TET)

I-91 625+62 TO 625+74.5 LT

DELINEATORS

REFER TO STANDARDS E-197, E-198
AND E-199 FOR PLACEMENT GUIDELINES

ERECTING SALVAGED SIGNS

AS SHOWN - 1

REMOVING SIGNS

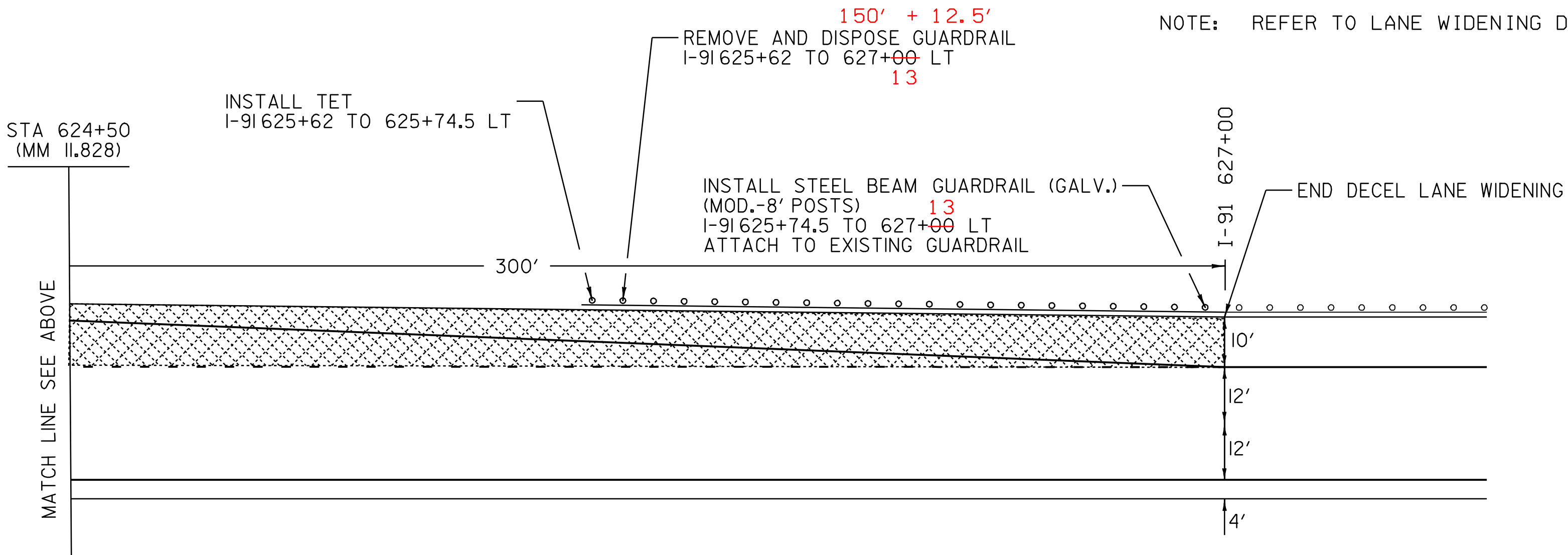
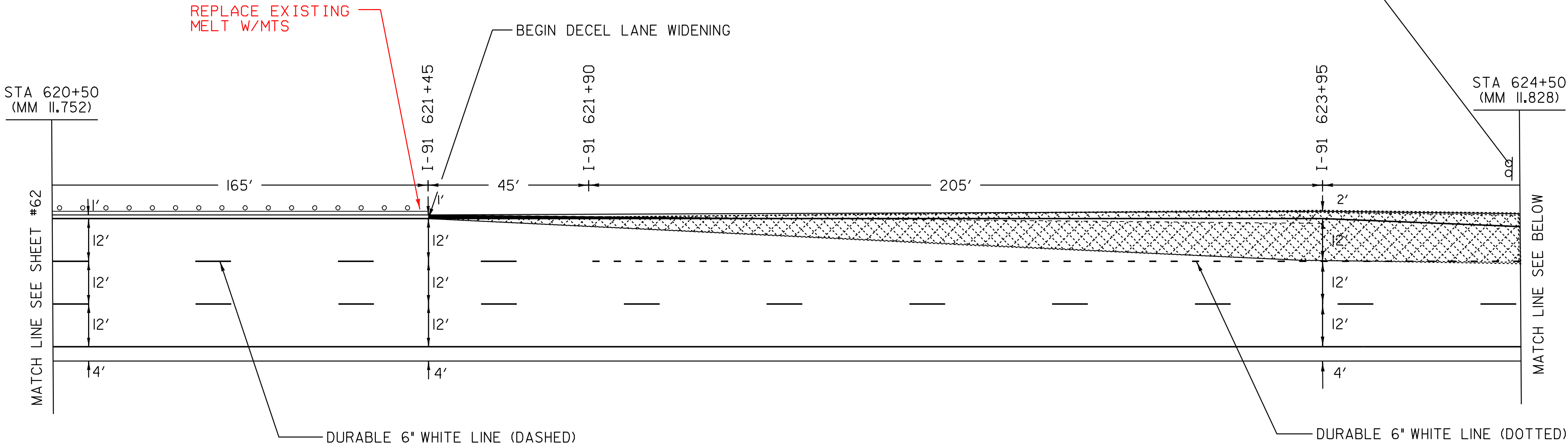
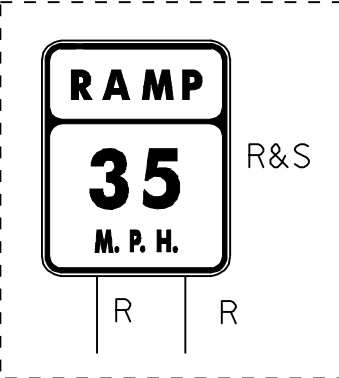
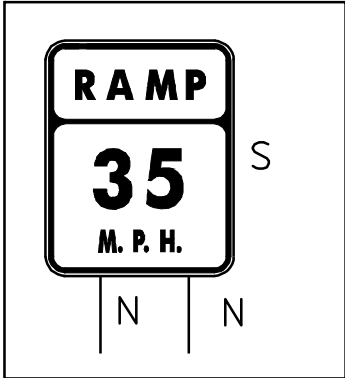
AS SHOWN - 1

EXIT 3 – RAMP B
SOUTHBOUND OFF RAMP

SEE STANDARDS E-191, E-192 AND E-193
FOR PAVEMENT MARKING GUIDELINES

624+47 LT
OFF RAMP B

624+47 LT
OFF RAMP B



LEGEND

- R = REMOVE EXISTING
- S = SALVAGE
- R & S = REMOVE AND SALVAGE
- N = NEW
- RET = RETAIN
- B-B = BACK TO BACK
- = NEW RAIL
- = EXISTING RAIL
- SHAD = SHADED AREA EXCAVATE 6" / TYPE IS

RAMP
DETAIL #17

PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-K(54)

FILE NAME: 05A014r.d17.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 05-0387

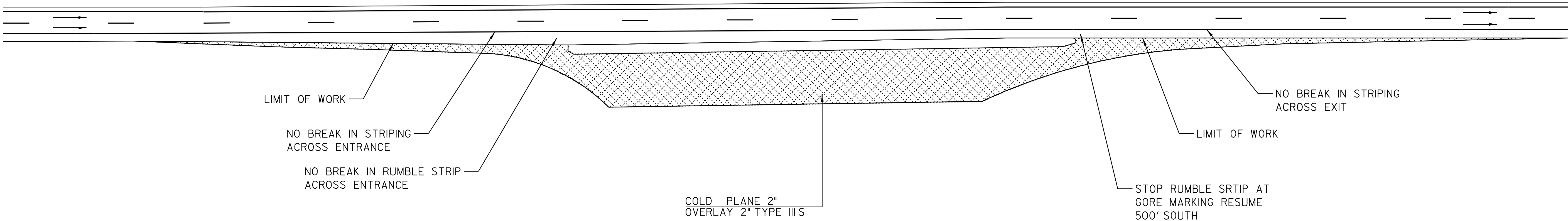
PLOT DATE: 22-JAN-2009 13:4
DRAWN BY: MRS
CHECKED BY: NLL
SHEET 63 OF 69

DATUM

VERTICAL _____
HORIZONTAL _____

NOT TO SCALE

WEIGH STATION
(STA 167+90)
(MM 3.18)



DATUM	
VERTICAL	
HORIZONTAL	

NOT TO SCALE

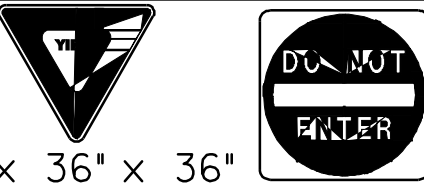
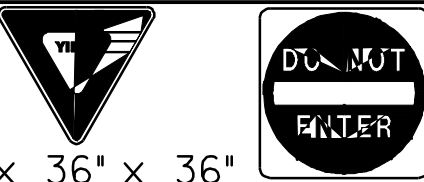


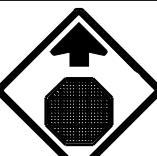
LEGEND

- = SHADED AREA COLD PLANE 2" / OVERLAY 2" TYPE III S
- = DIRECTION OF TRAFFIC

**WEIGH
STATION
DETAIL**

PROJECT NAME: GUILFORD-BRATTLEBORO	
PROJECT NUMBER: AC IM 09I-I(54)	
FILE NAME: 05A014rd18.i	PLOT DATE: 22-JAN-2009 13:41
PROJECT LEADER: CRB	DRAWN BY: MRS
DESIGNED BY: CLD	CHECKED BY: NLL
CLD REF. NO. 05-0387	SHEET 64 OF 69

STATE OF VERMONT AGENCY OF TRANSPORTATION				TRAFFIC SIGN SUMMARY SHEET #3																																		
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																				REMARKS	SIGN DETAIL						
					"A"	"B"	SALV SIGN	SALV TIS	RE TAIN	SAL VAGE	NO. OF POSTS	FLANGED CHANNEL			SQUARE STEEL (In)				TUBULAR ALUMINUM Ø (In)			TUBULAR STEEL Ø (In)				~~W-SHAPE STEEL~~ REMOVAL				RE FRUIT MEED		DETAIL ON SHEET NUMBER	STD. SHEET NUMBER					
		lb/ft	1.2	2.0								3.0	1.75	2.0	2.5	ANCHOR	SLEEVE	3.0	4.0	4.0 MOD	FOUND- ATION	3.0	3.5	4.0	5.0	FTG. SIZE		WEIGHT	POST SIZE									
																										1.2	2.0							3.0	1.88	2.16	3.35	1.3
											OPTION ITEMS																											
EXIT 1 RAMP B OFF RAMP 13+01 LT		I	30	30	3.90 6.25						I			X 13'		X																		BACK TO BACK		E-I46 E-I43		
		I	36	12	3.00																												BACK TO BACK		E-I42 E-I42			
EXIT 1 RAMP B OFF RAMP 13+01 RT		I	30	30	3.90 6.25						I			X 14'		X																	BACK TO BACK		E-I46 E-I43			
		I	36	12	3.00																													E-I42				
EXIT 1 RAMP D ON RAMP 0+90 LT		I	18	18	2.25						I		X 9'		X																			E-I50				
EXIT 1 RAMP D ON RAMP 2+40 RT		I	36	36	9.00						2		X 31'		X																			E-I42				
		I	36	36	9.00																													E-I42				
EXIT 1 RAMP D ON RAMP 11+50 RT		I	30	30	6.25						I		X 14'		X																			E-I43				
EXIT 2 RAMP C ON RAMP 3+04 RT		I	36	36	9.00						2		X 34'		X																			E-I42				
		I	36	36	9.00																													E-I42				
EXIT 2 RAMP C ON RAMP 5+40 RT		I	30	30	6.25						I		X 15'		X																			E-I43				
EXIT 2 RAMP C/D OFF RAMP 3+04 LT		I	36	24	6.00																												MOUNT ON BACK OF DESTINATION BOARDS		E-I43			
EXIT 2 RAMP C/D 0+79 CL		1	18	18	2.25								-																									
EXIT 2 RAMP D 2+15 LT		1	18	18	2.25								9'																				REPLACED DAMAGED SIGN					
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."												FT	FT 9 15	FT 130 120	FT 15	FT 120	FT	EA	LB	LB	LB		LB	LB	LB	LB												
TOTALS					SF 90.55 86.05	SF	EA.	SF		FT 139 135	FT 135				LB				EA.	LB				EA.	EA.	LB 17					PROJECT NAME: GUILFORD-BRATTLEBORO PROJECT NUMBER: AC IM 091-I(54) FILE NAME: 05A014ss03.1 PROJECT LEADER: CRB DESIGNED BY: CLD CLD REF. NO. 05-0387				PLOT DATE: 22-JAN-2009 13:4 DRAWN BY: MRS CHECKED BY: NLL SHEET 67 OF 69			

STATE OF VERMONT AGENCY OF TRANSPORTATION				TRAFFIC SIGN SUMMARY SHEET #4																																
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS			NEW & SALVAGED SIGNS				EXIST POST		NEW SIGN POSTS																				REMARKS	SIGN DETAIL				
											NO. OF POSTS	FLANGED CHANNEL			SQUARE STEEL (In)				TUBULAR ALUMINUM Ø (In)			TUBULAR STEEL Ø (In)				~~W-SHAPE STEEL~~ REMOVALS			REQUIRE D SIGN MATERIAL							
		1.12	2.0	3.0	1.75	2.0	2.5	ANCHOR	SLEEVE	3.0		4.0	4.0 MOD	FOUND- ATION	3.0	3.5	4.0	5.0	FTG. SIZE		WEIGHT	POST SIZE														
																			24"	30"																
OPTION ITEMS																																				
EXIT 2 RAMP C/D OFF RAMP 3+78 CL		I	24	30	5.00						I			X 13'		X													2			RETAIN EXISTING SLEEVE		E-I44		
	 	I I	18 18	18 18	2.25 2.25																											BACK TO BACK		E-I50 E-I50		
EXIT 2 RAMP C/D ON RAMP 13+49 CL		I	24	30	5.00						I			X 13'		X														2			RETAIN EXISTING SLEEVE		E-I44	
	 	I I	18 18	18 18	2.25 2.25																											BACK TO BACK		E-I50 E-I50		
EXIT 2 RAMP D OFF RAMP 6+72 LT		I	36	36	9.00						2			X 29'		X														1				E-I50		
EXIT 2 RAMP D OFF RAMP 9+76 RT		I I	30 36	30 24	6.25 6.00						2			X 32'		X														3			BACK TO BACK		E-I51 E-I43	
EXIT 3 RAMP A ON RAMP 4+75 RT		I	30	30	6.25						I			X 14'		X														1				E-I43		
EXIT 3 RAMP C OFF RAMP 0+71 LT		I	48	48	16.00						2			X		X	SEE NB SHEET 33 FOR FOUNDATIONS AND POSTS													1			W2-6			
		I	48	48	16.00																									1				E-I50		
		I	24	15	2.50																									1			W16-I2P			
EXIT 3 RAMP C OFF 14+00 RT	SCHOOL FOR INT. TRAINING KEENE N.H. 15 BELLOWS FALLS 20 BRATTLEBORO 2						4						32'				TEMPORARY INSTALL TO ALLOW G.R. PLACEMENT													4			SEE NB SHEET 33 FOR FOUNDATIONS AND 3" POSTS			
	SERVICES 24 HR GAS/DIESEL CAMPING						3																							3						
	JCT 5 JCT 9 BUS ARROW						7										SEE NB SHEET 33 FOR FOUNDATIONS AND POSTS													7			675.60 ERECT. SALVAGED SIGNS (14) EA (NB)			
	SUMMARY SHEET 1 TOTAL SUMMARY SHEET 2 TOTAL					192.25 170.00 66.18	1 + 2						470 195 15 9	99 420 135 130	195 15 135	420 135														33 13						
	SUMMARY SHEET 3 TOTAL SUMMARY SHEET 4 TOTAL					90.55 86.05 81.00							15 120 135	15 120 135																17 23			675.60 ERECT. SALVAGED SIGNS TOTAL 17 EA			
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE."												FT	FT	FT	FT	FT	FT		EA	LB	LB	LB		LB	LB	LB	LB									
												225	810	225	810																					
PROJECT TOTALS					SF	SF	EA.	SF				FT			FT				LB			EA.		LB			EA.	EA.	LB- EA.							
					403.23 429.98		-2- 17					-1035 980			1035																					
																					</															

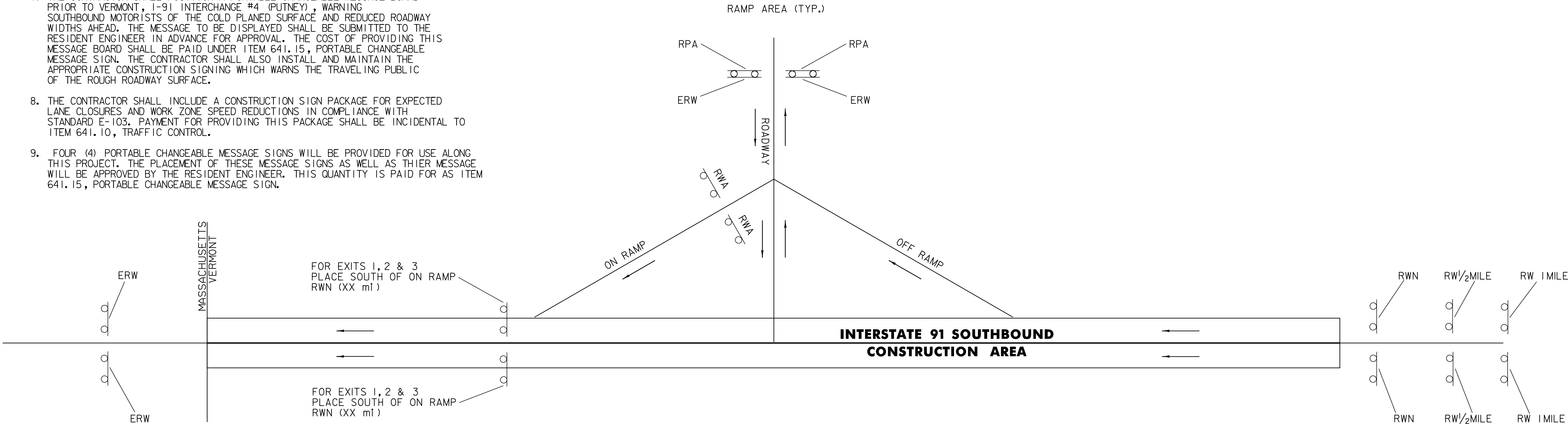
NOTES:

1. THE CONTRACTOR SHALL SUSPEND ALL INROAD WORK ON FRIDAY AFTERNOONS BEGINNING AT 12:00 P.M. (NOON). THE CONTRACTOR SHALL NOT RESUME WORK, NOR REDUCE THE NUMBER OF TRAVEL LANES, UNTIL THE START OF DAY ON SATURDAY.
2. ALL RAMP COLD PLANING AND PAVING OPERATIONS, AT INTERCHANGES 1, 2 AND 3 SHALL BE DONE AT NIGHT, BETWEEN THE HOURS OF 8:00 P.M. AND 5:00 A.M. INCLUSIVELY.
3. 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 CONSIDERED INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
4. THE STATE OF VERMONT HAS A PLANNED BRIDGE REHABILITATION PROJECT FOR BRIDGES 3N AND 3S WHICH WILL SPAN OVER A PERIOD OF THREE CONSTRUCTION SEASONS (2006 THRU 2008). THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE CONTRACTOR OF THE BRIDGE PROJECT AND SHALL COORDINATE THE PLACEMENT OF SIGN PACKAGES TO AVOID CONFLICTS AND CONFUSION.
5. THE CONTRACTOR IS REQUIRED TO OBTAIN PERMITTING FROM THE MASSACHUSETTS STATE DEPARTMENT OF TRANSPORTATION FOR THE PLACEMENT OF AN MUTCD COMPLIANT CONSTRUCTION WARNING SIGN PACKAGE AND FOR THE PLACEMENT OF PORTABLE CHANGEABLE MESSAGE SIGNS WITHIN THE STATE OF MASSACHUSETTS. THE CONTACT PERSON FOR THIS WORK SHALL BE:
TOM WALKER
NORTHFIELD MASSACHUSETTS HIGHWAY DEPT.
TEL. (413) 498-5117
DIG SAFE SHALL BE NOTIFIED PRIOR TO THE INSTALLATION OF ANY SIGNS IN MASSACHUSETTS AT TEL. (888) 344-7233.
6. DURING CONSTRUCTION IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAINTAIN ONE-LANE TRAFFIC FOR EXTENDED PERIODS OF TIME IN NO CASE SHALL THE PAVED WIDTH FOR THIS ONE-LANE TRAFFIC, INCLUDING SHOULDERS, BE REDUCED TO LESS THAN 15 FEET. THIS PAVED WIDTH SHALL REMAIN FREE OF OBSTRUCTIONS AND OBSTACLES AT ALL TIMES.
7. THE CONTRACTOR SHALL POSITION A PORTABLE CHANGEABLE MESSAGE BOARD PRIOR TO VERMONT, I-91 INTERCHANGE #4 (PUTNEY), WARNING SOUTHBOUND MOTORISTS OF THE COLD PLANED SURFACE AND REDUCED ROADWAY WIDTHS AHEAD. THE MESSAGE TO BE DISPLAYED SHALL BE SUBMITTED TO THE RESIDENT ENGINEER IN ADVANCE FOR APPROVAL. THE COST OF PROVIDING THIS MESSAGE BOARD SHALL BE PAID UNDER ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN. THE CONTRACTOR SHALL ALSO INSTALL AND MAINTAIN THE APPROPRIATE CONSTRUCTION SIGNING WHICH WARNS THE TRAVELING PUBLIC OF THE ROUGH ROADWAY SURFACE.
8. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH STANDARD E-103. PAYMENT FOR PROVIDING THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, TRAFFIC CONTROL.
9. FOUR (4) PORTABLE CHANGEABLE MESSAGE SIGNS WILL BE PROVIDED FOR USE ALONG THIS PROJECT. THE PLACEMENT OF THESE MESSAGE SIGNS AS WELL AS THIER MESSAGE WILL BE APPROVED BY THE RESIDENT ENGINEER. THIS QUANTITY IS PAID FOR AS ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.

SEE STANDARD E-100, E-100A AND E-103 FOR SIGN PLACEMENT.
THE COST OF PROVIDING, INSTALLING AND MAINTAINING CONSTRUCTION APPROACH
SIGNING IS INCLUDED IN ITEM 641.10, TRAFFIC CONTROL.

TOWN/STATE HIGHWAY NAME	ROAD WORK AHEAD	ROAD WORK 1 MILE	END ROAD WORK	ROAD WORK 1/2 MILE	ROAD WORK NEXT 12 MILES	ROAD WORK NEXT 7 MILES	ROAD WORK NEXT 8 3/4 MILES	ROAD WORK NEXT 11 1/2 MILES	RAMP PAVING AHEAD
I-91 SOUTHBOUND									
BEGINNING OF PROJECT		2		2	2				
EXIT 1 INTERCHANGE	4		2						2
STATION 367+50						2			
EXIT 2 INTERCHANGE	2		2						2
STATION 475+00							2		
EXIT 3 INTERCHANGE	2		2						2
STATION 600+00								2	
END OF PROJECT			2						
TOTAL	8	2	8	2	2	2	2	2	6

LEGEND
RW 1 MILE = ROAD WORK 1 MILE
RW 1/2 MILE = ROAD WORK 1/2 MILE
RWA = ROAD WORK AHEAD
RWN = ROAD WORK NEXT XX MILES
ERW = END ROAD WORK
RPA = RAMP PAVING AHEAD
→ = TRAFFIC FLOW ARROWS



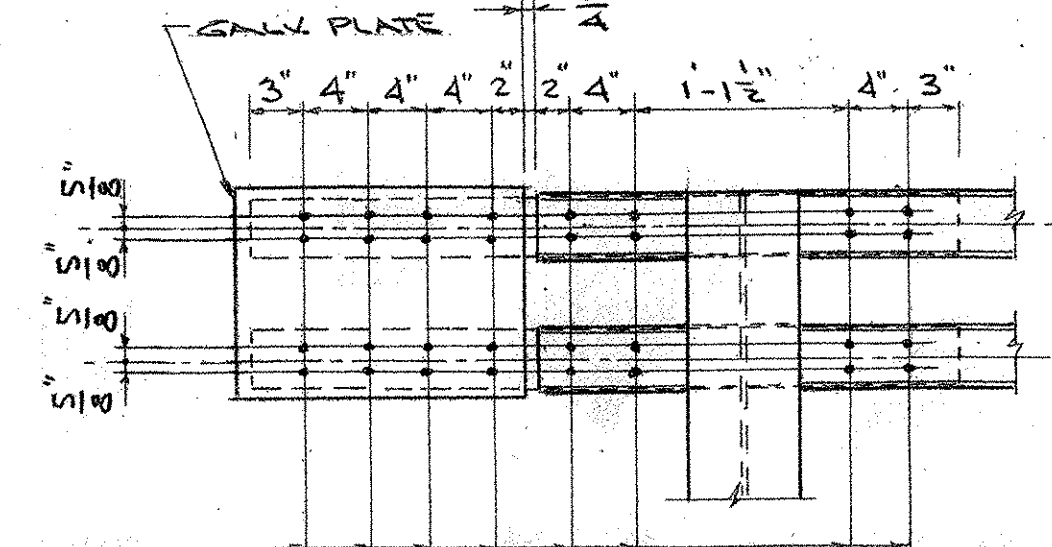
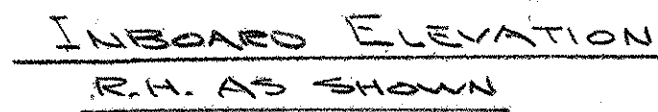
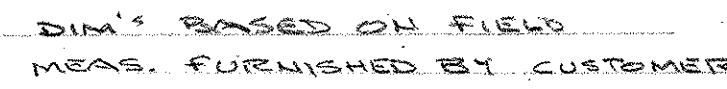
DATUM
VERTICAL N/A
HORIZONTAL N/A

NOT TO SCALE

CONSTRUCTION
APPROACH
SIGNING

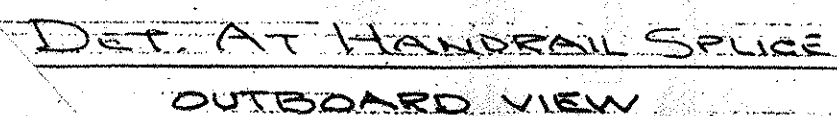
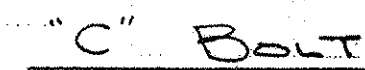
PROJECT NAME: GUILFORD-BRATTLEBORO
PROJECT NUMBER: AC IM 091-I(54)

FILE NAME: 05A014cs54.1
PROJECT LEADER: CRB
DESIGNED BY: CLD
CLD REF. NO. 05-0387
PLOT DATE: 22-JAN-2009 13:4
DRAWN BY: MRS
CHECKED BY: NLL
SHEET 69 OF 69



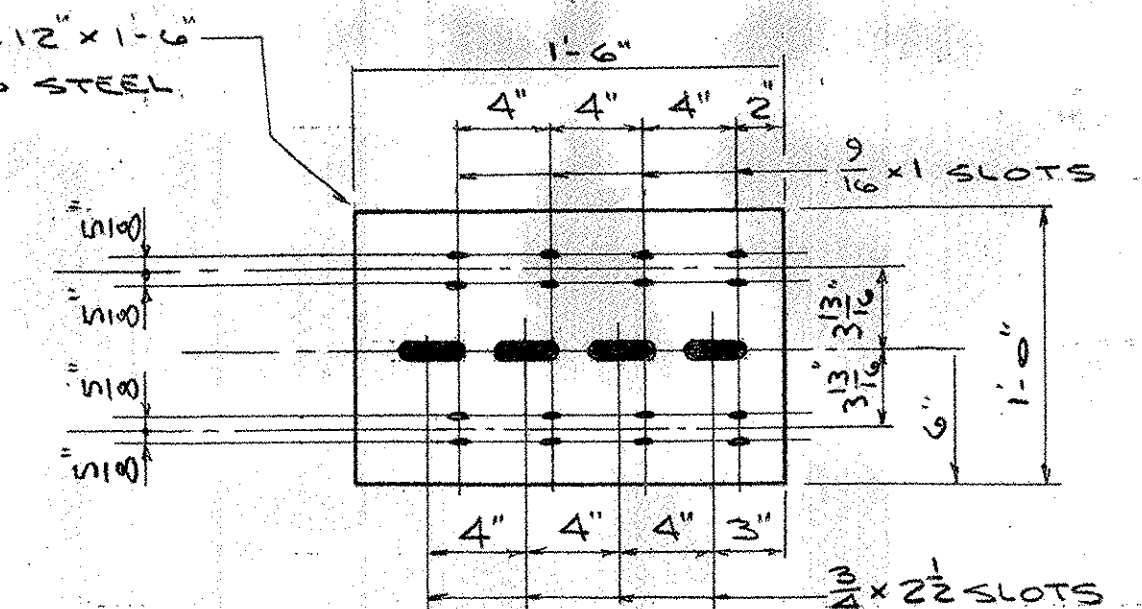
DETAIL A
OUTBOARD VIEW

MRK	QUAN	X	L	A	B	C
A1	1	$\frac{1}{16}$ "	6'-6"	$1\frac{1}{2}$ "	$9\frac{1}{8}$ "	$12\frac{3}{4}$ "
A2	1	$\frac{1}{16}$ "	6'-6"	$1\frac{1}{2}$ "	$8\frac{9}{16}$ "	$11\frac{3}{4}$ "
A3	1	$\frac{1}{16}$ "	6'-6"	$1\frac{1}{2}$ "	$7\frac{5}{16}$ "	$11\frac{3}{16}$ "
A4	1	$\frac{1}{16}$ "	6'-6"	$1\frac{1}{2}$ "	6"	$10\frac{1}{2}$ "
A5	1	$\frac{1}{4}$ "	6'-0"	2"	$9\frac{5}{8}$ "	0
A6	1	$\frac{1}{4}$ "	6'-0"	2"	$8\frac{13}{16}$ "	0
A7	1	$\frac{1}{4}$ "	6'-0"	2"	$7\frac{7}{8}$ "	0

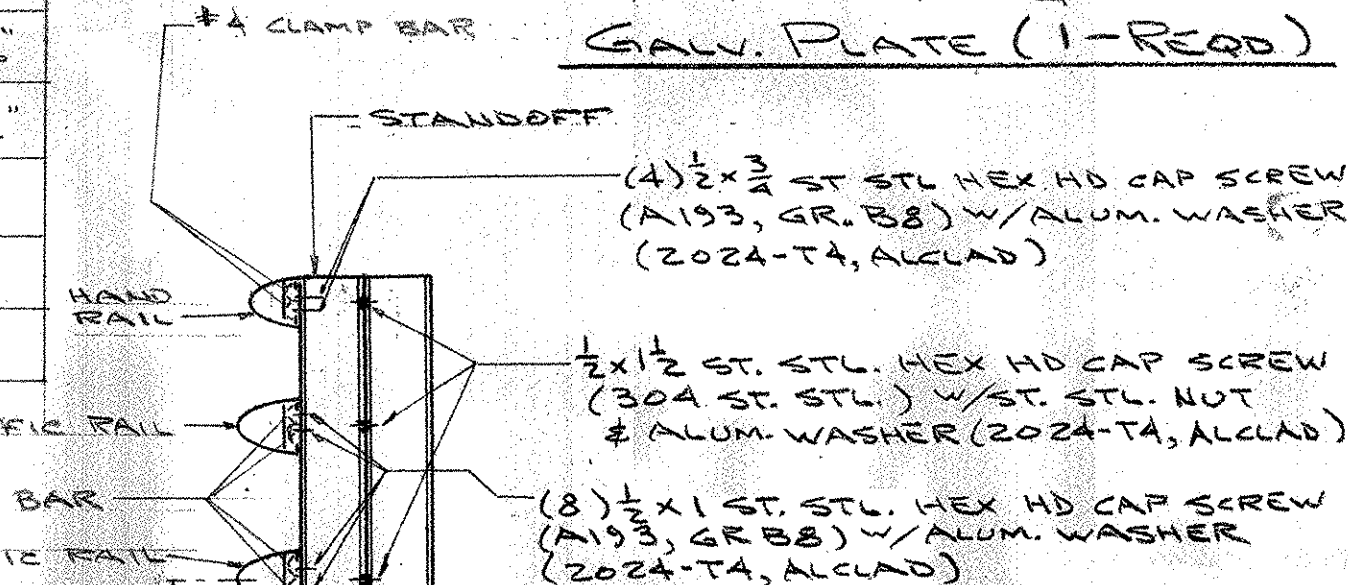


STANDOFF

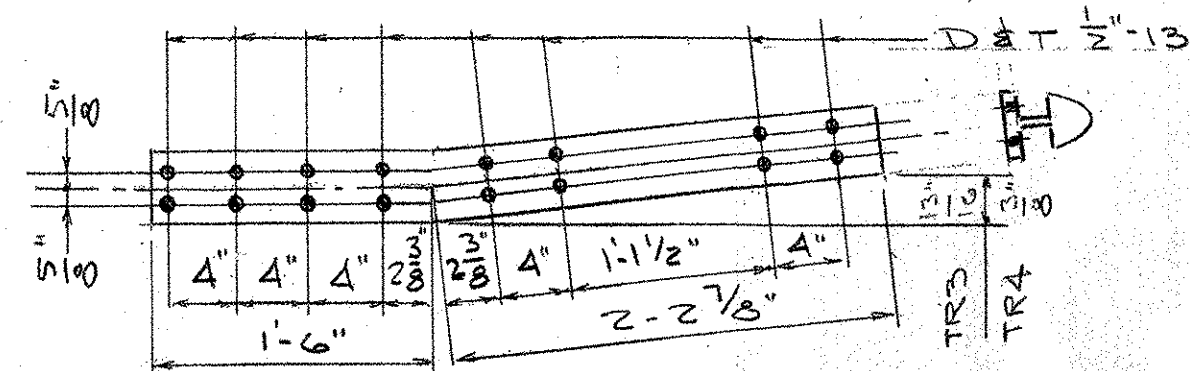
MX	QUAN	X	L	A	B	C
B1	1	$\frac{7}{16}$ "	2-2 $\frac{7}{8}$ "	1 $\frac{1}{2}$ "	9 $\frac{1}{8}$ "	12 $\frac{1}{2}$ "
B2	1	$\frac{7}{16}$ "	2-0 $\frac{5}{16}$ "	1 $\frac{1}{2}$ "	8 $\frac{9}{16}$ "	11 $\frac{3}{8}$ "
B3	1	$\frac{7}{16}$ "	1-11"	1 $\frac{1}{2}$ "	7 $\frac{5}{16}$ "	11 $\frac{1}{4}$ "
B4	1	$\frac{7}{16}$ "	1-9"	1 $\frac{1}{2}$ "	6"	10 $\frac{1}{2}$ "
B5	1	$\frac{1}{2}$ "	1-2 $\frac{5}{8}$ "	2"	9 $\frac{5}{8}$ "	0
B6	1	$\frac{1}{2}$ "	1-1 $\frac{13}{16}$ "	2"	8 $\frac{13}{16}$ "	0
B7	1	$\frac{1}{2}$ "	1-0 $\frac{7}{8}$ "	2"	7 $\frac{7}{8}$ "	0



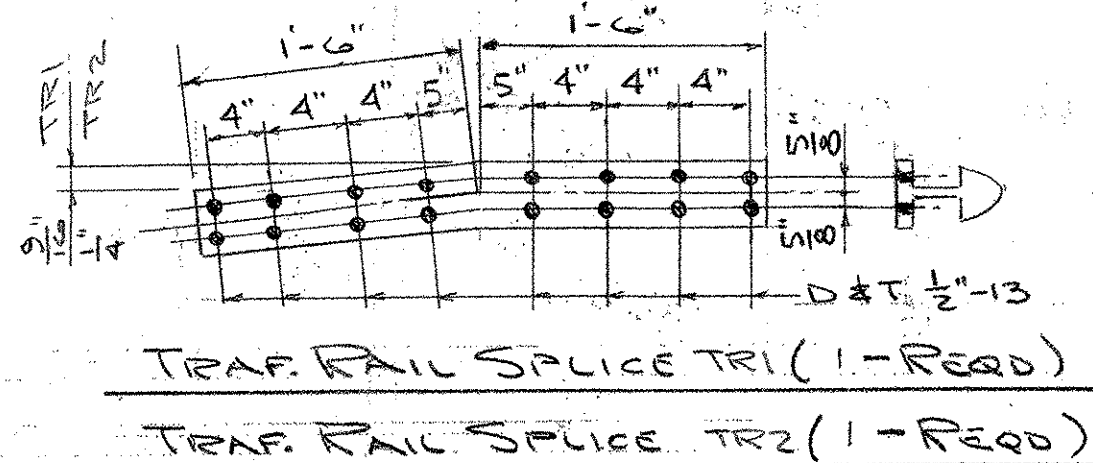
GALV. PLATE (1-REQD)



SECTION A-A



TRAF. RAIL SPLICE TR3 (1-REQD)
TRAF. RAIL SPLICE TR4 (1-REQD)

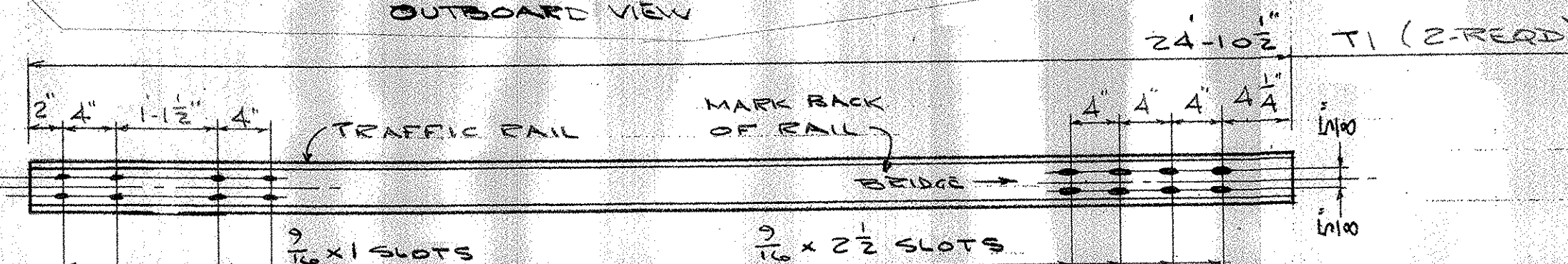


The diagram shows two parallel horizontal lines representing railroad tracks. Two sets of three dots represent rail splices. Dimensions are indicated by arrows below the tracks.

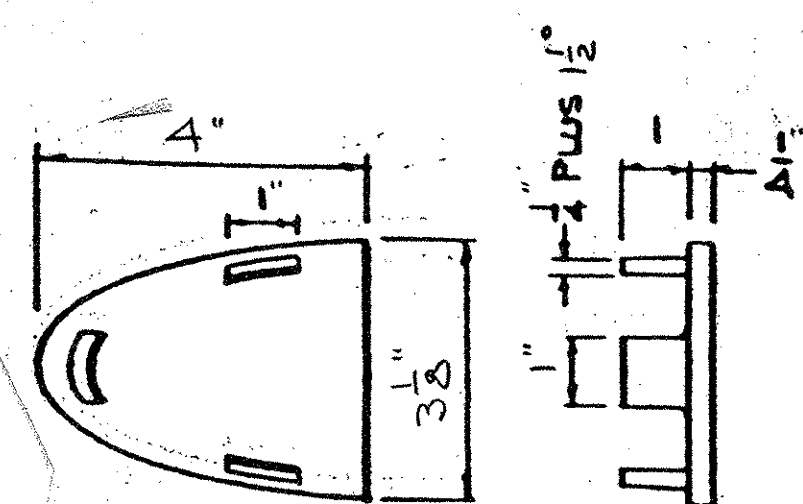
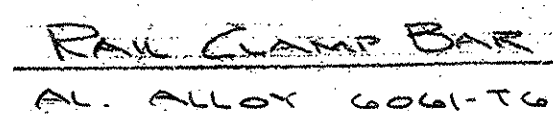
- Top Splice:** Labeled "TRANS. RAIL SPLICE (-REQ)". Dimensions from left to right: 4", 1'-1 1/2", 4", 2'-2 7/8", 1'-6".
- Bottom Splice:** Labeled "TRANS. RAIL SPLICE (-REQ)". Dimensions from left to right: 4", 1'-1 1/2", 4", 2'-2 7/8", 1'-6".
- A vertical dimension of 1'10" is shown between the two tracks on the right side.



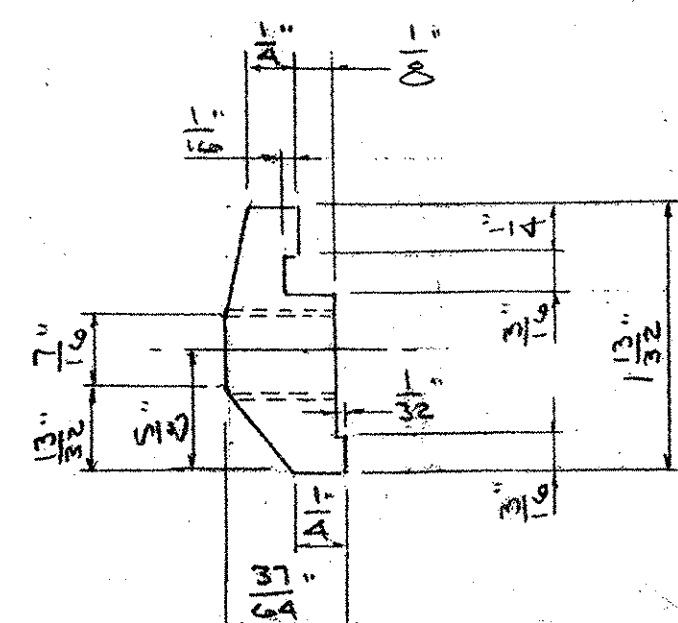
DET. AT TRAFFIC RAIL SPICES TR1 & TR2
OUTBOARD VIEW



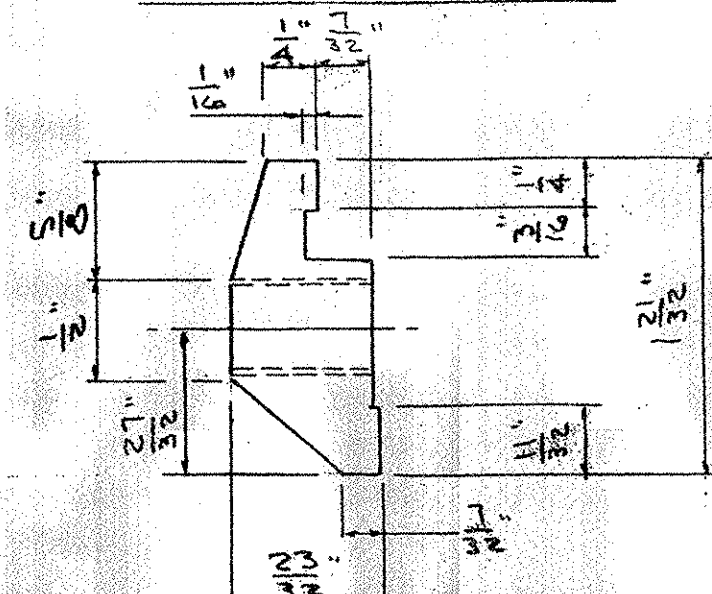
RECEIVED CK'D BY <u>LFW</u> OK'D BY <u>MP</u> OCT 27 2006 RESUBMIT <u> </u> APPROVED <u>✓</u> BY <u> </u> DATE <u>10/27/06</u>		AUCIELLO IRON WORKS INC 560 MAIN ST. HUDSON, MA. (508) 568-8382 VT. AGENCY OF TRANSPORTATION BRATTLEBORO PROJ # ACIM 09151 (54) AL. APPROACH RAIL AT SAFETY CURB FOR: NORTHLAND SPECIALTIES, INC. DR: 10-13-06 <u>44</u> CHK: 10-16-06 <u>73</u> JOB NO. AB10013-1001	
1	10-16-06	FOR APPROVAL	DWG. NO. BR-2907 SHEET 1 OF 2
ISSUE	DATE	DESCRIPTION	BY <u> </u>



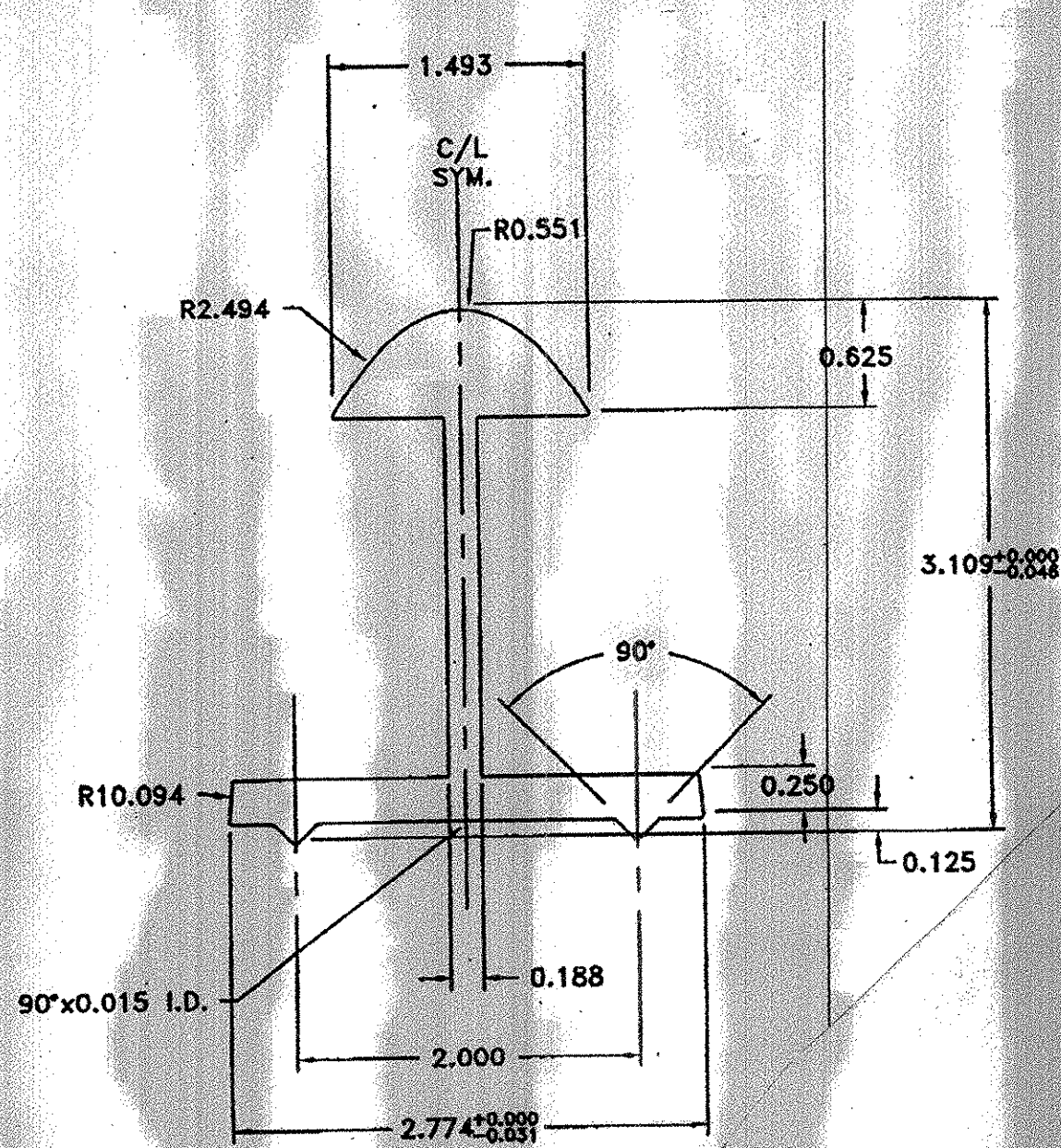
RAIL CAP MA-HR
AL. ALLOY 356-F



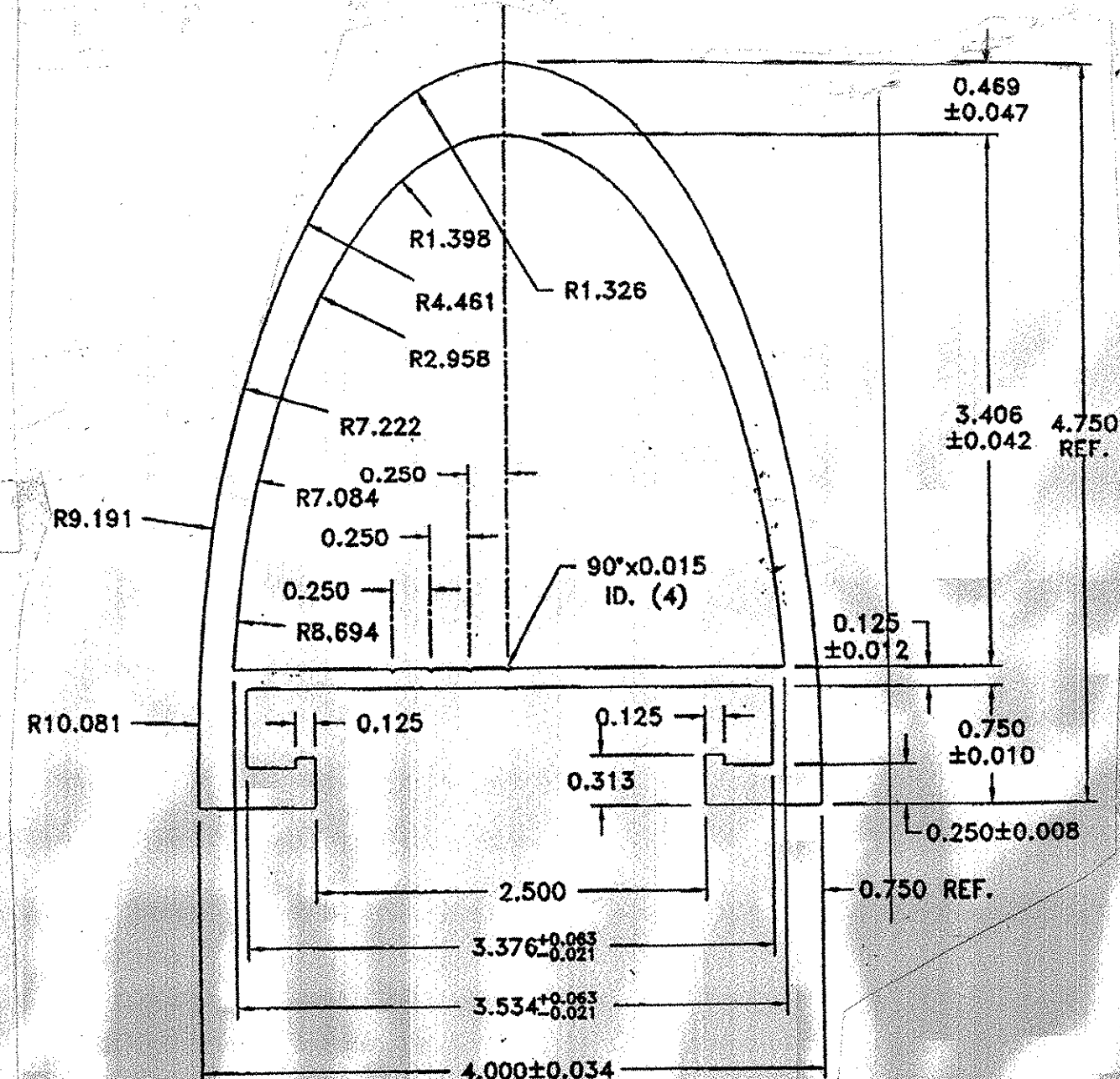
SECT. X-X
#4 CLAMP BAR



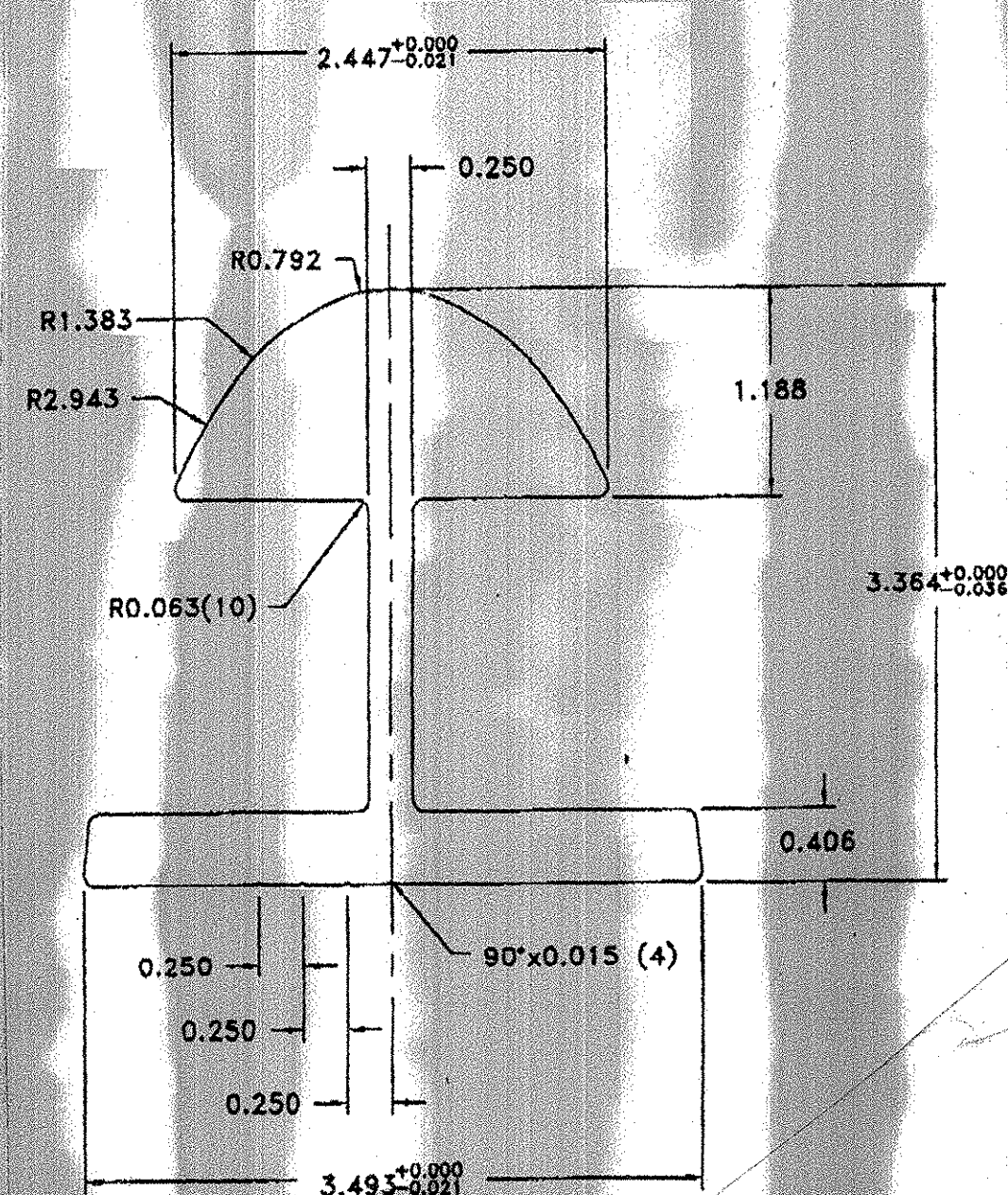
SECT. X-X
#1 CLAMP BAR



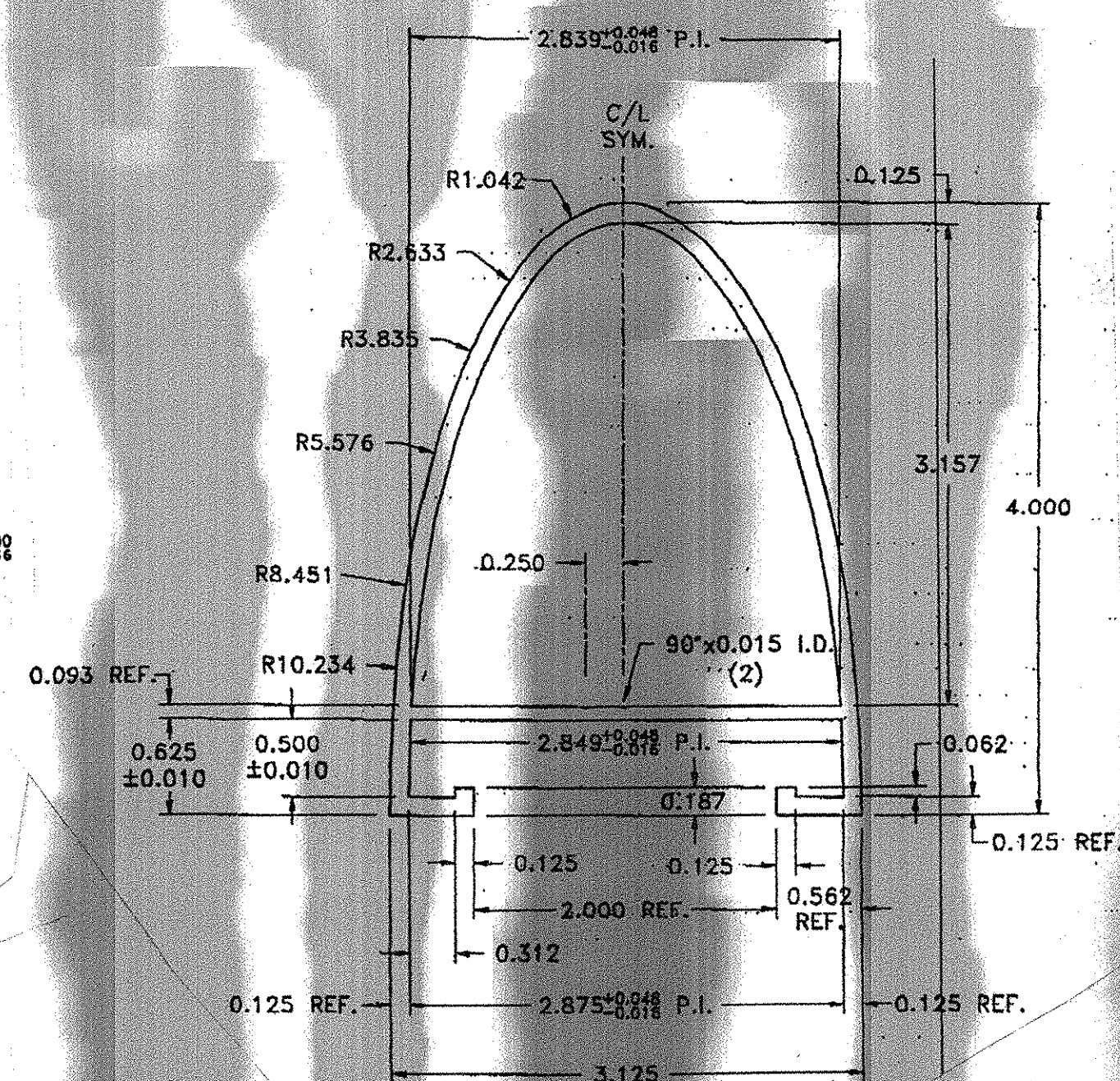
EXTRUSION
HANDBRAIL SPLICE
ALLOY 6061-T6



EXTRUSION
TRAFFIC RAIL
ALLOY 6061-T6



EXTRUSION
TRAFFIC RAIL SPLICE
ALLOY 6061-T6



EXTRUSION
HANDRAIL
ALLOY 6061-T6

JOB # AB70013-1001						
QUAN	MK	DESCRIPTION	QUAN	MK	DESCRIPTION	
1	R1	HANDRAIL X 11'-7½"	1	A1	POST	
2	T1	TRAFFIC RAIL X 24'-10½"	1	A2		
1	HR1	HANDRAIL SPLICE	1	A3		
1	TR1	TRAF. RAIL SPLICE	1	A4		
1	TR2	↓	1	A5		
1	TR3		1	A6		
1	TR4		1	A7	↓	
1	—	GALV. PLATE				
1	MA-HR	HANDRAIL CAP	1	B1	STANDOFF	
8	#4	CLAMP BAR	1	B2		
28	#1	CLAMP BAR	1	B3		
—	1	¼ X ¾ ST STL SET SCREW	1	B4		
—	64	½ X ¾ ST STL HX HD CAP SCREW	1	B5		
—	56	½ X 1 ST STL HEX HD CAP SCREW	1	B6		
—	16	"6" BOLT	1	B7		↓
—	156	½" ALUM. WASHER				
—	36	½ X 1½ ST STL HX HD CAP SCREW				
—	36	½-13 ST STL HEX NUT				

FINISH: MILL FINISH

AUCIELLO IRON WORKS INC
560 MAIN ST. HUDSON, MA. (508) 568-8382

VT. AGENCY OF TRANSPORTATION
BRATTLEBORO
PROJ #ACIM 09151 (54)

AL. APPROACH RAIL AT SAFETY CURVE
FOR: NORTHLAND SPECIALTIES, INC

DR: W/M 10-13-06	DWG. NO.
CHK: B 10-16-06	BR-2907
JOB NO.	
AB70013-1001	SHEET 2 OF 2

RECEIVED
OK'D BY LPW OK'D BY MP
OCT 27 2006
RESUBMIT _____ APPROVED ✓
BY _____ DATE 10/27/06

1	10-16-06	FOR APPROVAL
ISSUE	DATE	DESCRIPTION

CHK: 10-16-06	BR-2907
JOB NO. AB70013-1001	SHEET 2 OF 2