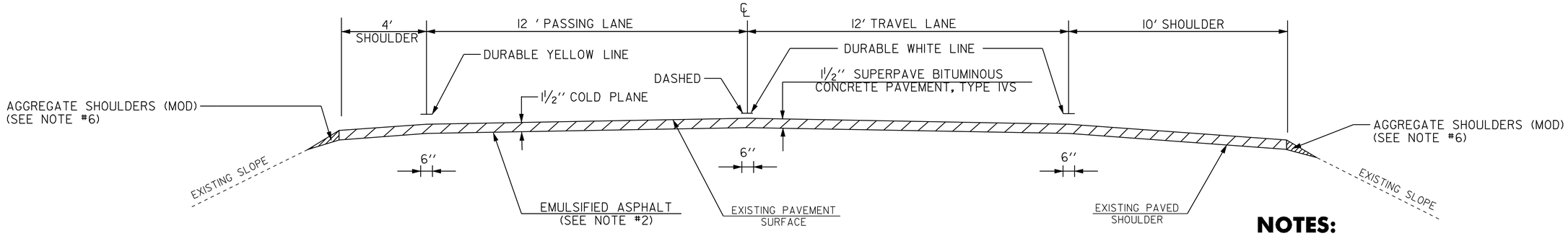


MAINLINE TYPICAL SECTION

(NB BARREL SHOWN; MIRROR IMAGE FOR SB BARREL)

MONTPELIER
STA 2801+04 (M.M. 53.05) TO STA 2856+32 (M.M. 54.097) SB
STA 2800+72 (M.M. 53.044) TO STA 2856+32 (M.M. 54.097) NB

MIDDLESEX
STA 2856+32 (M.M. 54.097) TO STA 3214+62 (M.M. 60.883) SB & NB

WATERBURY
STA 3214+62 (M.M. 60.883) TO STA 3356+19 (M.M. 63.564) SB
STA 3214+62 (M.M. 60.883) TO STA 3300+00 (M.M. 62.50) NB

PROJECT PAVING LIMITS

TOWN	BEGIN STATION	END STATION	LANE TYPICAL	WEARING DEPTH				NOTES
INTERSTATE-89								
SOUTHBOUND								
MONTPELIER	2801+04	2817+04	4′-12′-12′-10′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
MONTPELIER	2817+04	2825+80	3′-12′-12′-3′					DO NOT COLD PLANE BRIDGE # 42S
MONTPELIER	2825+80	2856+34	4′-12′-12′-10′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
MIDDLESEX	2856+34	2893+16	4′-12′-12′-10′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
MIDDLESEX	2893+16	2894+71	3′-12′-12′-3′					DO NOT COLD PLANE BR # 43-S
MIDDLESEX	2894+71	3099+38	4′-12′-12′-10′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
MIDDLESEX	3099+38	3100+45	4′-12′-12′-10′	1 1/4 ′′				COLD PLANE 1¼″, OVERLAY 1¼″ BR # 45-S
MIDDLESEX	3100+45	3214+63	4′-12′-12′-10′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
WATERBURY	3214+63	3353+12	4′-12′-12′-10′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
WATERBURY	3353+12	3355+81	2′-12′-12′-2′	1 1/4 ′′				COLD PLANE 1¼″, OVERLAY 1¼″ BR # 46-S
RAMPS	EXIT 8 SB OFF		4′-16′-4′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
	EXIT 9 SB OFF		4′-16′-4′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
	EXIT 9 SB ON		4′-16′-4′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
NORTHBOUND								
MONTPELIER	2800+72	2817+04	4′-12′-12′-10′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
	2817+04	2825+80	3′-12′-12′-3′	1 1/4 ′′				COLD PLANE 1¼″, OVERLAY 1¼″ BR # 42-N
	2825+80	2856+34	4′-12′-12′-10′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
MIDDLESEX	2856+34	2893+16	4′-12′-12′-10′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
	2893+16	2894+71	2′-12′-12′-2′	1 1/4 ′′				COLD PLANE 1¼″, OVERLAY 1¼″ BR # 43-N
	2894+71	3099+38	4′-12′-12′-10′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
	3099+38	3100+45	4′-12′-12′-10′	1 1/4 ′′				COLD PLANE 1¼″, OVERLAY 1¼″ BR # 45-N
	3100+45	3214+63	4′-12′-12′-10′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
WATERBURY	3214+63	3300+00	4′-12′-12′-10′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
RAMPS	EXIT 8 NB ON		4′-16′-4′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
	EXIT 9 NB OFF		4′-16′-4′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″
	EXIT 9 NB ON		4′-16′-4′	1 1/2 ′′				COLD PLANE 1½″, OVERLAY 1½″

NOT TO SCALE

NOTES:

1. THE PAVEMENT WEARING COURSE SHALL BE TYPE IVS AS SHOWN ON THE TYPICALS, ALL LIQUID ASPHALT USED IN SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 58-34.
2. EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES AND ON COLD PLANED SURFACES, AT THE RATE OF 0.015 GAL./SY. OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = ¼″ +/- (TOTAL THICKNESS).
4. COLD PLANING SHALL BE COMPLETED ACCORDING TO TYPICAL 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.
5. AN ESTIMATE QUANTITY OF EARTH BORROW HAS BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING MTS FLARES WHICH SHALL BE CAPPED WITH AN ESTIMATED 3″ DEPTH OF AGGREGATE SHOULDER (MOD.) MATERIAL UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 26 CUBIC YARDS OF EARTH BORROW AND 6 TONS OF AGGREGATE SHOULDER (MOD.) MATERIAL FOR EACH GUARDRAIL TERMINAL.
6. 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),
7. 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.

CONSERVATION SEED MIX

RURAL AREA - SEED MIXTURE

% WT.	LBS. / A.	NAME	PUR %	GERM %
37.14	26	CREEPING RED FESCUE	98	85
37.14	26	TALL FESCUE	95	90
5.71	4	RED TOP	95	90
14.30	10	BIRDSFOOT TREFOIL	98	85
5.71	4	ANNUAL RYE GRASS	95	85
100.00	70			

SEED MIXTURE:
SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED 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. (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 APPLIED ON EARTH SLOPES AT THE RATE OF 2 TONS / ACRE OR AS DIRECTED BY THE RESIDENT ENGINEER.

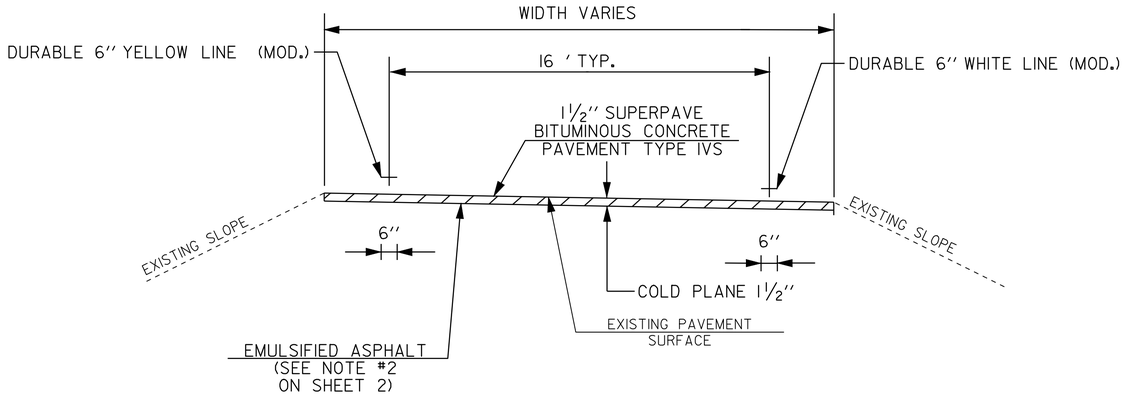
TOPSOIL:
TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER.

PROJECT TYPICAL SHEET 1

PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/03a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM NAME: p03a026pt1.i

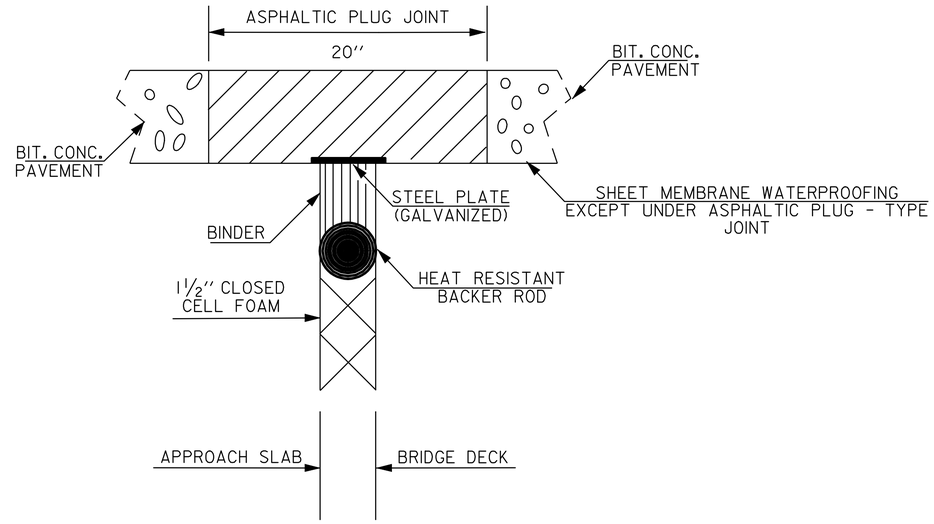
PLOT DATE: 11-APR-2005 10:16
DRAWN BY:
CHECKED BY:
SHEET __2__ OF 23



RAMP PAVEMENT TYPICAL

LOCATION

EXIT 8 OFF & ON RAMPS - SEE SHEET 15 FOR DETAILS
EXIT 9 OFF & ON RAMPS - SEE SHEET 16 FOR DETAILS



ASPHALTIC PLUG-TYPE JOINT DETAIL - ITEM 516.10

REFER TO SPECIAL PROVISIONS FOR ADDITIONAL DETAILS

TOWN	BRIDGE	EXISTING CONDITION AS PER BRIDGE INVENTORY	TREATMENT	LENGTHS
MONTPELIER M.M. 53.64	BR.# 42S 13 SIMPLE SPAN	2'' +/- OF EXISTING PAVEMENT WITH MEMBRANE ON BRIDGE	2 PLUG JOINTS REQUIRED DO NOT COLD PLANE	2 @ 30 '
MIDDLESEX M.M. 58.71	BR.# 45S 3 SPAN BRIDGE	3'' +/- OF EXISTING PAVEMENT WITH NO MEMBRANE ON BRIDGE	3 PLUG JOINTS REQUIRED COLD PLANE 1 1/4 ''	3 @ 38 '
WATERBURY M.M. 63.532	BR.# 46S 5 SIMPLE SPAN BEAM BRIDGE	2'' +/- OF EXISTING PAVEMENT WITH MEMBRANE ON BRIDGE	5 PLUG JOINTS REQUIRED COLD PLANE 1 1/4 ''	5 @ 28 '
MONTPELIER M.M. 53.64	BR.# 42N 13 SIMPLE SPAN	2''- 3'' +/- OF EXISTING PAVEMENT WITH MEMBRANE ON BRIDGE	2 PLUG JOINTS REQUIRED COLD PLANE 1 1/4 ''	2 @ 30 '
MIDDLESEX M.M. 54.81	BR.# 43N 3 SPAN BRIDGE	2'' +/- OF EXISTING PAVEMENT WITH MEMBRANE ON BRIDGE	1 PLUG JOINTS REQUIRED COLD PLANE 1 1/4 ''	1@ 38 '
MIDDLESEX M.M. 58.71	BR.# 45N 3 SIMPLE SPAN BEAM BRIDGE	2'' +/- OF EXISTING PAVEMENT WITH MEMBRANE ON BRIDGE	3 PLUG JOINTS REQUIRED COLD PLANE 1 1/4 ''	3 @ 28 '
				TOTAL 496'

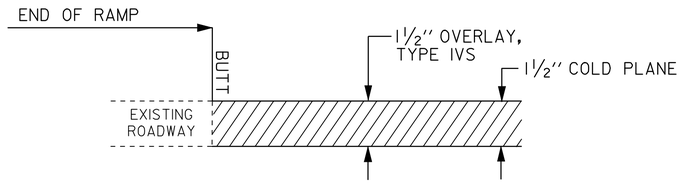
NOTE: EXISTING PAVEMENT THICKNESSES ARE BASED ON BRIDGE INSPECTION AND FILE INFORMATION WHICH HAVE NOT BEEN FIELD VERIFIED.

PROJECT TYPICAL SHEET 2

PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/03a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM NAME: p03a026pt2.i

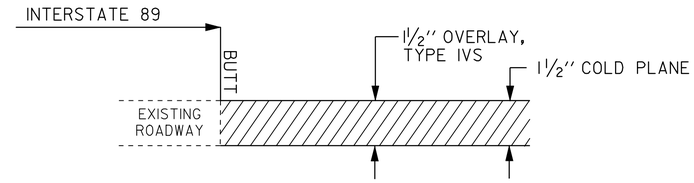
PLOT DATE: 11-APR-2005 10:17
DRAWN BY:
CHECKED BY:
SHEET 3 OF 23



RAMP APPROACH AREA DETAIL

LOCATION

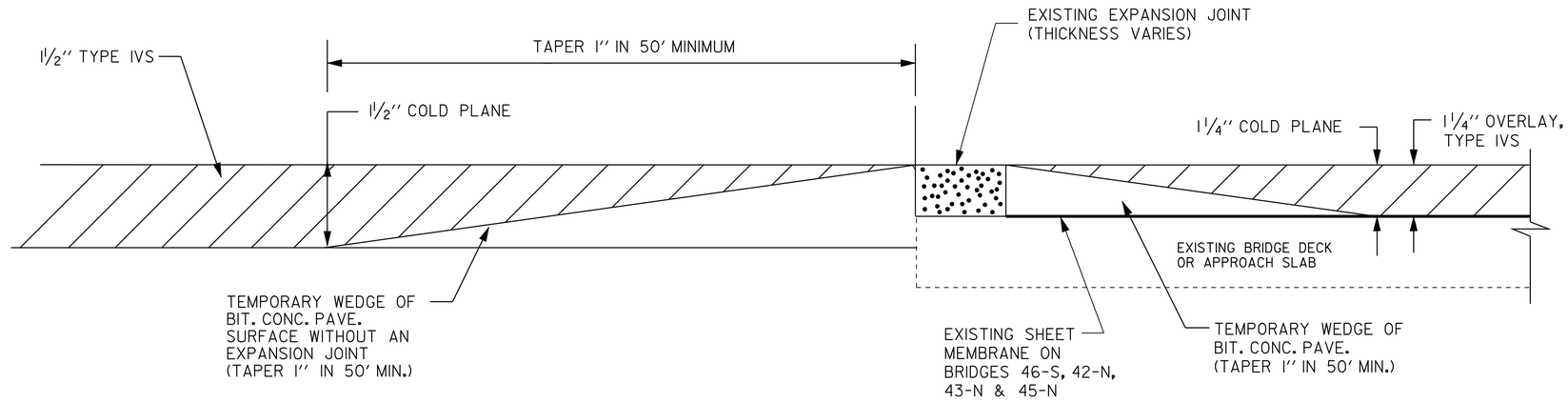
EXIT 8 - END OF SOUTHBOUND OFF RAMP (BETWEEN BR. # 41S AND BR. # 41N)
EXIT 8 - BEGIN OF NORTHBOUND ON RAMP AT MONTPELIER STATE HIGHWAY
EXIT 9 - END OF NORTHBOUND ON & OFF RAMPS (@ MIDDLESEX STATE HIGHWAY)
EXIT 9 - END OF SOUTHBOUND ON & OFF RAMPS (@ MIDDLESEX STATE HIGHWAY)



MAINLINE APPROACH AREA DETAIL

LOCATION

BEGINNING OF PROJECT - STA 2801+04 (MM 53.05) SOUTHBOUND
END OF PROJECT - SEE BRIDGE APROACH DETAIL BR # 46S SOUTHBOUND
BEGINNING OF PROJECT - STA 2800+72 (M.M. 53.044) NORTHBOUND
END OF PROJECT - STA. 3300+00 (M.M. 62.50) NORTHBOUND



BRIDGE APPROACH DETAIL

SB BR # 42-S	STA 2816+52 TO STA 2817+27	NB BR # 42-N	STA 2816+52 TO STA 2817+27
SB BR # 42-S	STA 2825+59 TO STA 2826+34	NB BR # 42-N	STA 2825+59 TO STA 2826+34
SB BR # 43-S	STA 2892+40 TO STA 2893+15	NB BR # 43-N	STA 2892+40 TO STA 2893+15
SB BR # 43-S	STA 2894+71 TO STA 2895+46	NB BR # 43-N	STA 2894+71 TO STA 2895+46
SB BR # 45-S	STA 3098+58 TO STA 3099+33	NB BR # 45-N	STA 3098+58 TO STA 3099+33
SB BR # 45-S	STA 3100+50 TO STA 3101+25	NB BR # 45-N	STA 3100+50 TO STA 3101+25
SB BR # 46-S	STA 3351+93 TO STA 3352+68		
SB BR # 46-S	STA 3356+26 TO STA 3357+01		

NOT TO SCALE

PROJECT TYPICAL SHEET 3

PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/03a026.dgn____ PLOT DATE: 11-APR-2005 10:17
PROJECT LEADER: DRAWN BY:
DESIGNED BY: CHECKED BY:
IPARM NAME: p03a026pt3.i SHEET _4___OF 23

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES

					BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
						160	160	CY	COMMON EXCAVATION	203.15	4
						100	100	CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.28	7
						900	900	CY	EARTH BORROW	203.30	EST
						34300	34300	LF	SHOULDER BERM REMOVAL	203.99	EST
						1	1	CY	TRENCH EXCAVATION OF EARTH (N.A.B.I.)	204.20	EST
						464,500	464,500	SY	COLD PLANING - BIT. PAVEMENT	210.10	306
						211,500	211,500	LF	MILLED RUMBLE STRIPS	213.10	47
						4400	4400	TON	AGGREGATE SHOULDERS (MOD)	402.12	57
						580	580	CWT	EMULSIFIED ASPHALT	404.65	3
						1	1	LU	PRICE ADJUSTMENT ASPHALT CEMENT (N.A.B.I.)	406.50	-
						39,000	39,000	TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 58-34)	490.30	317
					550		550	LF	BRIDGE EXPANSION JOINT	516.10	54
						8	8	EA	REHABING DI,CB OR MH CLASS I	604.412	EST
						530	530	HR	POWER GRADER RENTAL	608.15	EST
						530	530	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST
						315	315	HR	POWER BROOM RENTAL	608.30	EST
						315	315	HR	POWER BROOM RENTAL, TYPE II	608.31	EST
						525	525	HR	TRUCK RENTAL	608.37	EST
						525	525	HR	LOADER RENTAL, TYPE I	608.40	EST
						40	40	HR	LOADER RENTAL, TYPE II (MOD.)	608.41	EST
						200	200	LF	TREATED TIMBER CURB	616.35	
						620	620	LF	REMOVAL OF EXISTING CURB	616.41	8
						100	100	TON	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47	EST
						4000	4000	LF	STEEL BEAM GUARDRAIL	621.20	212.5
						82	82	LF	HEAVY DUTY STEEL BEAM GUARDRAIL	621.21	3
						41	41	EA	MANUFACTURED TERMINAL SECTION (FLARED)	621.505	-
						1	1	EA	MANUFACTURED TERMINAL SECTION (TANGENT)	621.505	-
						6	6	EA	TRAILING END TERMINAL	621.52	-
						1	1	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COLD PLANING BIT. PAVEMENT
235,730	SY	SOUTHBOUND MAINLINE
210,672	SY	NORTHBOUND MAINLINE
8,082	SY	EXIT # 8 RAMPS
8,321	SY	EXIT # 9 RAMPS
1,389	SY	U-TURNS
464,194	SY	SUBTOTAL
306	SY	ROUNDING
464,500	SY	TOTAL
		AGGREGATE SHOULDERS (MOD)
2,068	TON	SOUTHBOUND MAINLINE
1,848	TON	NORTHBOUND MAINLINE
112	TON	EXIT # 8 RAMPS
116	TON	EXIT # 9 RAMPS
180	TON	GUARDRAIL TERMINALS
19	TON	U-TURNS
4,393	TON	SUBTOTAL
57	TON	ROUNDING
4,400	TON	TOTAL
		SUPERPAVE BITUMINOUS
		CONCRETE PAVEMENT (PG 58-34)
19,644	TON	SOUTHBOUND MAINLINE
17,556	TON	NORTHBOUND MAINLINE
674	TON	EXIT # 8 RAMPS
693	TON	EXIT # 9 RAMPS
116	TON	U-TURNS
38,683	TON	SUBTOTAL
317	TON	ROUNDING
39,000	TON	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT : MONTPELIER - WATERBURY
PROJECT NO. : IM 089-2(34)
DESIGN FILE NAME: /pave/03a026/p03a026.dgn
IPARM FILE NAME: p03a026qsl.i
PLOT DATE: 11-APR-2005 10:17
SURVEYED BY:
SURVEY DATE:
SQUAD LEADER:
DRAWN BY:
SHEET: 5 OF 23

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES

					BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
						25	25	EA	ANCHOR FOR CABLE RAIL (MOD. 1)	621.65	EST
						100	100	EA	ANCHOR FOR CABLE RAIL (MOD. 2)	621.65	EST
						900	900	LF	REMOVING AND RESETTING GUARDRAIL	621.75	EST
						200	200	EA	REPLACE GUARD RAIL POST ASSEMBLY	621.76	3
						1100	1100	EA	REPLACE GUARD RAIL BEAM UNIT	621.77	2
						3100	3100	LF	REPLACE GUARD RAIL CABLE (MOD.)	621.78	EST
						500	500	LF	ADJUST HEIGHT OF GUARD RAIL	621.79	EST
						3100	3100	LF	REMOVAL AND DISPOSAL OF GUARD RAIL	621.80	50
						2000	2000	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST
						3000	3000	HR	FLAGGERS	630.15	EST
						1	1	LS	FIELD OFFICE - ENGINEERS	631.10	-
						1	1	LS	TESTING EQUIPMENT - BITUMINOUS (MOD.)	631.17	-
						1	1	LU	FIELD OFFICE - TELEPHONE (N.A.B.I.)	631.25	-
						1	1	LS	MOBILIZATION	635.10	-
						1	1	LS	TRAFFIC CONTROL	641.10	-
						4	4	EA	PORTABLE CHANGEABLE MESSAGE SIGNS	641.15	-
						4	4	EA	PORTABLE ARROW BOARDS	641.16	-
						150 000	150 000	LF	DURABLE 6'' WHITE LINE (MOD.)	646.414	469
						111000	111000	LF	DURABLE 6'' YELLOW LINE (MOD.)	646.415	382
						5200	5200	LF	DURABLE 12'' WHITE LINE	646.44	25
						40	40	LF	DURABLE 24'' STOP BAR	646.46	-
						26	26	EA	DURABLE LETTER OR SYMBOL	646.50	-
						150 000	150 000	LF	TEMPORARY 6'' WHITE LINE	646.614	469
						111000	111000	LF	TEMPORARY 6'' YELLOW LINE	646.615	392
						5200	5200	LF	TEMPORARY 12'' WHITE LINE	646.64	25
						40	40	LF	TEMPORARY 24'' STOP BAR	646.66	-
						26	26	EA	TEMPORARY LETTERS OR SYMBOLS	646.70	-
						4200	4200	EA	LINE STRIPING TARGETS	646.76	-
						30	30	LB	SEED	651.15	EST

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT : MONTPELIER - WATERBURY

PROJECT NO. : IM 089-2(34)

DESIGN FILE NAME: /pave/03a026/03a026.dgn
IPARM FILE NAME: p03a026qs3.i
PLOT DATE: 11-APR-2005 10:1
SURVEYED BY:
SURVEY DATE:
SQUAD LEADER:
DRAWN BY:
SHEET: 6 OF 23

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 3

SUMMARY OF ESTIMATED QUANTITIES

BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
	250	250	LB	FERTILIZER	651.18	EST
	1	1	TON	AGRICULTURAL LIMESTONE	651.20	EST
	1	1	TON	HAY MULCH	651.25	EST
	25	25	CY	TOPSOIL	651.35	EST
	215	215	SF	TRAFFIC SIGNS, TYPE A	675.20	4
				BEGIN OPTION ITEMS		
	640	640	LF	FLANGED CHANNEL SIGN POSTS	675.301	EST
	640	640	LF	SQUARE TUBE STEEL POSTS AND ANCHORS	675.341	EST
				END OPTION ITEMS		
	42	42	EA	REMOVING SIGNS	675.50	-
	41	41	EA	DELINEATORS W/STEEL POSTS	676.10	-
	8	8	EA	TEMPORARY DETECTOR (MOD.)	678.42	-

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT : MONTPELIER - WATERBURY

PROJECT NO. : IM 089-2(34)

DESIGN FILE NAME: /pave/03a026/03a026.dgn
IPARM FILE NAME: p03a026qs3.i
PLOT DATE: 11-APR-2005 10:1
SURVEYED BY:
SURVEY DATE:
SQUAD LEADER:
DRAWN BY:
SHEET: 7 OF 23

LOCATION			CURBED SIDEWALKS					DROP INLETS			GUARDRAIL										MISC.			REMARKS
			203.15	203.16	301.35	616.21	618.10	604.40	604.412	604.415	616.35	621.20	621.20	621.21	621.505	621.52	621.60	621.75	621.80	621.81	621.76	621.77		
STATION	STATION	POS.	COMM. EXCAV.	SOLID ROCK EXCAV.	SUBBASE OF DENSE CR. STONE	VERTICAL GRANITE CURB	PORT. CEM. CONC. SDWK. 5 ''	CHANGE ELEV. D.I.	REHAB. D.I. CLASS I	REHAB. D.I. CLASS II	TIMBER CURB	STEEL BEAM G.R.	S.B. G.R. 8' POST) (MOD)	H.D. BEAM G.R.	M.T.S.	M.T.S. (TRAILING END TERMINAL)	ANCHOR FOR G.R.	REMOVE & RESET G.R.	REMOVE & DISP. G.R.	REMOVE & DISP. G.P.	REPLACE GR POST ASSEMBLY	REPLACE GR BEAM UNIT	MILE MARKER	
INTERSTATE ROUTE 89 SB			CY	CY	CY	LF	SY	EA	EA	EA	LF	LF	LF	LF	EA	EA	EA	LF	LF	EA	EA	EA		
2801+04	3355+81								8															FOR LOCATIONS SEE LAYOUT SHEETS, ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
2830+18.5	2830+56	LT													1				37.5				53.58	
2845+02	2845+39.5	RT													1				37.5		2	11	53.87	
2869+78.5	2870+16	LT													1				37.5			22	54.33	
2891+85.5	2891+98	LT																	~~12.5~~					
2906+27	2906+64.5	LT													1				37.5			3	55.01	
2923+64	2924+01.5	RT													1				37.5			8	55.34	
2939+74.5	2940+12	RT													1				37.5			1	55.65	
3008+70	3009+07.5	LT													1				37.5		3	16	56.96	
3063+56	3063+93.5	LT													1				37.5			7	58.01	
3076+81.5	3077+19	LT													1				25 ~~37.5~~				58.26	
3107+38.5	3107+76	LT													1				37.5			1	58.84	
3128+35	3128+72.5	LT													1				37.5			1	59.25	
3155+43	3155+80.5	LT													1				37.5			6	59.75	
3175+92	3176+29.5	LT													1				37.5			1	60.15	
3192+23.5	3192+61	LT													1				37.5			6	60.47	
3207+70.5	3208+08	LT													1				25 ~~37.5~~			2	60.75	
3232+33.5	3322+71	LT													1				37.5			1	62.93	
3341+34	3341+71.5	LT													1				37.5			8	63.29	
SHEET 8 TOTALS									8						17 ~~16~~				612.5 ~~662.5~~		5	94		

ITEM DETAIL SHEET 1

PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)
FILE NAME: /pave/03a026/p03a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM NAME: p03a0261d1.1
PLOT DATE: 11-APR-2005 10:17
DRAWN BY:
CHECKED BY:
SHEET 8 OF 23

LOCATION			CURBED SIDEWALKS					DROP INLETS			GUARDRAIL										MISC.		REMARKS
			203.15	203.16	301.35	616.21	618.10	604.40	604.412	604.415	616.35	621.20	621.20	621.21	621.505	621.52	621.60	621.75	621.80	621.76	621.77		
STATION	STATION	POS.	COMM. EXCAV.	SOLID ROCK EXCAV.	SUBBASE OF DENSE CR. STONE	VERTICAL GRANITE CURB	PORT. CEM. CONC. SDWK. 5 ''	CHANGE ELEV. D.I.	REHAB. D.I. CLASS I	REHAB. D.I. CLASS II	TIMBER CURB	STEEL BEAM G.R.	S.B. G.R. 8' POST) (MOD)	H.D. BEAM G.R.	M.T.S.	M.T.S. TRAILING END TERMINAL	ANCHOR FOR G.R.	REMOVE & RESET G.R.	REMOVE & DISP. G.R.	REPLACE GR POST ASSEMBLY	REPLACE GR BEAM UNIT	MILE MARKER	
								EA	EA	EA					EA	EA	EA			EA	EA		
2814+19	2814+56.5	RT													1				37.5			53.30	
2840+16.0	2840+53.5	RT													1				37.5		5	53.78	
2876+12.0	2876+49.5	RT													1				37.5	3	12	54.45	
2905+00.0	2905+37.5	LT													1				25 ~~37.5~~		8	55.02	
2942+86.0	2943+23.5	RT													1				37.5		6	55.74	
3026+71.0	3027+08.5	RT													1				37.5		1	57.32	
3067+10.0	3067+47.5	RT													1				37.5		1	58.09	
3086+64.0	3087+01.5	RT													1				37.5			58.45	
3094+89.0	3095+26.5	RT													+								
3098+20.0	3098+57.5	RT													1				50 ~~37.5~~		2	58.67	
3108+28.0	3108+65.5	RT													1				37.5		2	58.88	
3134+47.0	3134+84.5	RT													1				37.5		1	59.37	
3165+78.0	3166+15.5	RT													1				37.5		3	59.96	
3181+68.0	3182+05.5	RT													1				37.5		2	60.25	
3201+16.0	3201+53.5	RT													1				37.5		1	60.62	
3221+43.0	3221+80.5	RT													1				37.5			61.01	
3250+21.0	3250+58.5	RT													1				37.5		1	61.56	
3268+69.0	3269+06.5	RT													1				37.5			61.90	
SHEET 9 TOTALS															~~18~~ 17				637.5	3	45		

ITEM DETAIL SHEET 2

PROJECT NAME: MONTPELIER - WATERBURY

PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/p03a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM NAME: p03a0261d3.1

PLOT DATE: 11-APR-2005 10:17
DRAWN BY:
CHECKED BY:
SHEET 9 OF 23

LOCATION			CURBED SIDEWALKS					DROP INLETS			GUARDRAIL											MISC.		REMARKS
STATION	STATION	POS.	203.15 COMM. EXCAV.	203.16 SOLID ROCK EXCAV.	301.35 SUBBASE OF DENSE CR. STONE	616.21 VERTICAL GRANITE CURB	618.10 PORT. CEM. CONC. SDWK. 5"	604.40 CHANGE ELEV. D.I.	604.412 REHAB. D.I. CLASS I	604.415 REHAB. D.I. CLASS II	616.35 TIMBER CURB	621.20 STEEL BEAM G.R.	621.20 S.B. G.R. (8' POST) (MOD)	621.21 H.D. BEAM G.R.	621.505 M.T.S.	621.52 M.T.S. TRAILING END TERMINAL	621.60 ANCHOR FOR G.R.	621.75 REMOVE & RESET G.R.	621.80 REMOVE & DISP. G.R.	621.76 REPLACE GR POST ASSEMBLY	621.77 REPLACE GR BEAM UNIT	MILE MARKER	MOD 2 ANCHOR FOR CABLE RAIL	
INTERSTATE ROUTE 89			CY	CY	CY	LF	SY	EA	EA	EA	LF	LF	LF	LF	EA	EA	EA	LF	LF	EA	EA			
SOUTHBOUND									4 ~~8~~															
3291+76.0	3292+13.5	RT													1				37.5			62.33		
															+				~~37.5~~					
BULLNOSE LOCATIONS																								
2887+88	2892+41	LT										~~412.5~~ 595.5			1							54.75		BR 43-N
2890+85	2892+41	RT														1			~~275~~ 185			54.75		BR 43-S
2895+52	2897+87	LT														1			~~300~~ 215					BR 43-N
2896+53	2901+02	RT										~~412.5~~ 375			1 TANGENT						1			BR 43-S
2966+30	2969+31	LT										~~987.5~~ 937.5			1	1			~~350~~ 200	1	3			NB--US 2 OVERPASS
2966+30	2969+31	RT										~~862.5~~ 700			1	1			~~350~~ 213.5					SB--US 2 OVERPASS
3094+89	3099+39	LT										~~412.5~~ 483			1				~~450~~ 250			58.70		BR 45-N
3099+26	3099+39	RT														1						58.70		BR 45-S
3101+97	3100+99	LT														1		25						BR 45-N
3101+97	3106+47	RT										~~412.5~~ 462.5			1				~~125~~ 77.5					BR 45-S
INTERCHANGE #9												~~287.5~~ 225		~~82~~ 102.5	1		1		~~87.5~~ 152		15			
SHEET TOTALS												3787.5 3778.5		~~82~~ 102.5	7 1 TANGENT	6	1	25	~~1750~~ 1330.5	1	19			
SHEET 8 TOTAL									~~8~~ 4						~~16~~ 17				~~662.5~~ 612.5	5	94			
SHEET 9 TOTAL															~~18~~ 17				637.5	3	45			
SHEET 10 TOTAL												~~3787.5~~ 3778.5		~~82~~ 102.5	7 1 TANGENT	6	1	25	~~1750~~ 1330.5	1	19			
ROUNDING												~~212.5~~		~~3~~	-	-			~~150~~					
PROJECT TOTALS									4 ~~8~~			~~4000~~ 3778.5		~~85~~ 102.5	41 1 TANGENT	6	1	25	~~3200~~ 2580.5	9	158		391	

ITEM DETAIL SHEET 3

PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)
FILE NAME: /pave/03a026/p03a026.dgn
PLOT DATE: 11-APR-2005 10:17
PROJECT LEADER:
DRAWN BY:
DESIGNED BY:
CHECKED BY:
IPARM NAME: p03a026ld3.1

621.505 MANUFACTURED TERMINAL SECTIONS (FLARED)

~~2830+18.5 TO 2830+56 LT.~~
~~2845+02 TO 2845+39.5 RT.~~
~~2869+78.5 TO 2870+16 LT.~~
~~2906+27 TO 2906+64.5 LT.~~
~~2923+64 TO 2924+01.5 RT.~~
~~2939+74.5 TO 2940+12 RT.~~
~~3008+70 TO 3009+07.5 LT.~~
~~3063+56 TO 3063+93.5 LT.~~
~~3076+81.5 TO 3077+19 LT.~~

SB 58.273 TO SB 58.280 LT.
SB 56.983 TO SB 56.990 LT.
SB 58.022 TO SB 58.029 LT.
SB 53.602 TO SB 53.609 LT.
SB 54.352 TO SB 54.359 LT.
SB 55.042 TO SB 55.050 LT.
SB 53.883 TO SB 53.890 RT.
SB 55.372 TO SB 55.379 RT.
SB 55.677 TO SB 55.684 RT.
SB 58.828 TO SB 58.835 RT.
SB 56.387 TO SB 56.394 RT.
NB 54.698 TO NB 54.705 RT.
NB 57.324 TO NB 57.331 RT.
NB 55.019 TO NB 55.026 LT.
NB 54.472 TO NB 54.479 RT.
NB 55.736 TO NB 55.743 RT.
NB 56.107 TO NB 56.113 LT.
NB 53.299 TO NB 53.306 RT.
NB 53.791 TO NB 53.798 RT.
NB 58.089 TO NB 58.096 RT.

621.80 REMOVAL & DISP. OF GUARDRAIL

~~2830+18.5 TO 2830+56 LT.~~
~~2845+02 TO 2845+39.5 RT.~~
~~2869+78.5 TO 2870+16 LT.~~
~~2906+27 TO 2906+64.5 LT.~~
~~2923+64 TO 2924+01.5 RT.~~
~~2939+74.5 TO 2940+12 RT.~~
~~3008+70 TO 3009+07.5 LT.~~
~~3063+56 TO 3063+93.5 LT.~~
~~3076+81.5 TO 3077+19 LT.~~

646.414 DURABLE 6'' WHITE LINE (MOD.)

2801+04 TO 3078+66 SOLID LT
2801+04 TO 3078+66 DASHED CL

646.614 TEMPORARY 6'' WHITE LINE

2801+04 TO 3078+66 SOLID LT
2801+04 TO 3078+66 DASHED CL

646.415 DURABLE 6'' YELLOW LINE (MOD.)

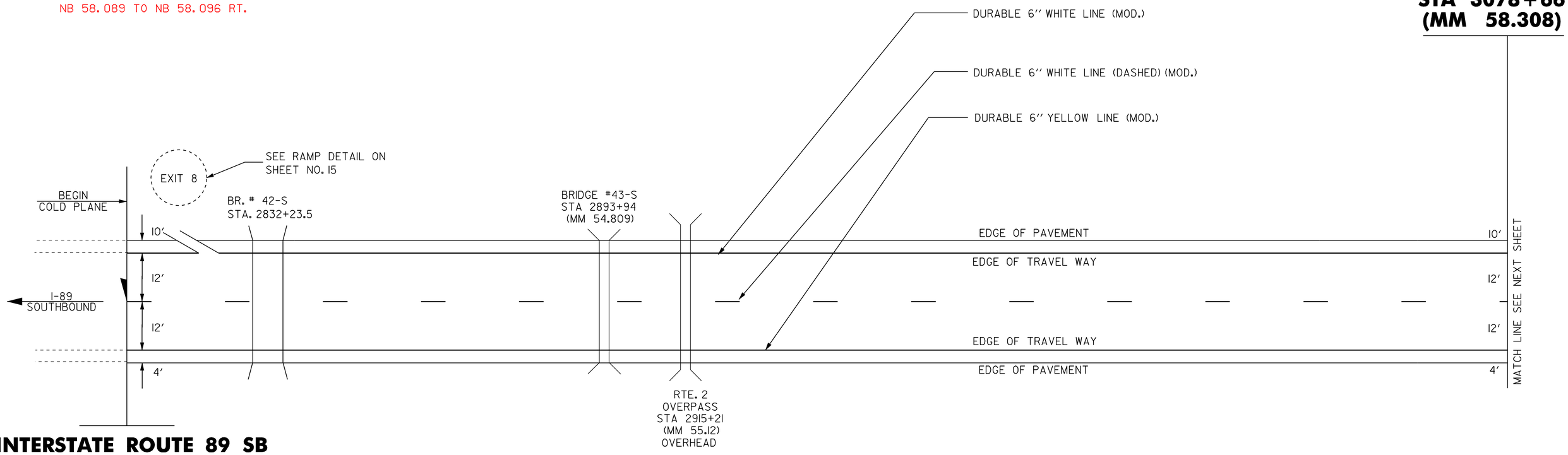
2801+04 TO 3078+66 SOLID RT

646.615 TEMPORARY 6'' YELLOW LINE

2801+04 TO 3078+66 SOLID RT

604.412 REHABING DI,CB OR MH CLASS I

2811+60 LT
~~3053+42 LT~~
~~3057+12 LT~~
MONTPELIER, EXIT 8 NB ON RAMP "B"
MONTPELIER, EXIT 8 SB OFF RAMP "D", 2 EA.
SB MM 53.25 RT.



INTERSTATE ROUTE 89 SB
STA 2801+04
(MM 53.05)
BEGIN PROJECT
IM 089-2(34)

NOT TO SCALE

PAVING PROJECT LAYOUT #1

PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/p03a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM NAME: p03a026101.i

PLOT DATE: 11-APR-2005 10:18
DRAWN BY:
CHECKED BY:
SHEET 11 OF 23

621.505 MANUFACTURED TERMINAL SECTION

~~3107+38.5 TO 3107+76 LT.~~
~~3128+35 TO 3128+72.5 LT.~~
~~3155+43 TO 3155+80.5 LT.~~
~~3175+92 TO 3176+29.5 LT.~~
~~3192+23.5 TO 3192+61 LT.~~
~~3322+33.5 TO 3322+71 LT.~~
~~3341+34 TO 3341+71.5 LT.~~
SB 59.249 TO SB 59.256 LT.
SB 63.283 TO SB 63.290 LT.
SB 62.923 TO SB 62.930 LT.
SB 60.752 TO SB 60.759 LT.
SB 60.150 TO SB 60.169 LT.
SB 60.459 TO SB 60.466 LT.
SB 58.852 TO SB 58.859 LT.
SB 59.762 TO SB 59.769 LT.
SB 58.828 TO SB 58.835 RT.
NB 54.698 TO NB 54.705 RT.
MSH RAMP "D"
NB 58.459 TO NB 58.466 RT.

621.80 REMOVAL & DISP. OF GUARDRAIL

~~3107+38.5 TO 3107+76 LT.~~
~~3128+35 TO 3128+72.5 LT.~~
~~3155+43 TO 3155+80.5 LT.~~
~~3175+92 TO 3176+29.5 LT.~~
~~3192+23.5 TO 3192+61 LT.~~
~~3197+51.5 TO 3197+64 LT.~~
~~3322+33.5 TO 3322+71 LT.~~
~~3341+34 TO 3341+71.5 LT.~~
NB 58.678 TO NB 58.685 RT.
NB 58.869 TO NB 58.876 RT.
NB 59.365 TO NB 59.372 RT.
NB 59.958 TO NB 59.965 RT.
NB 58.615 TO NB 58.622 LT.
NB 60.259 TO NB 60.266 RT.
NB 60.628 TO NB 60.635 RT.
NB 61.012 TO NB 61.019 RT.
NB 61.557 TO NB 61.564 RT.
NB 61.907 TO NB 61.914 RT.
NB 62.344 TO NB 62.351 RT.

646.414 DURABLE 6" WHITE LINE (MOD.)

~~3078+66 TO 3356+19 SOLID LT~~
~~3078+66 TO 3356+19 DASHED CL~~

646.415 DURABLE 6" YELLOW LINE (MOD.)

3078+66 TO 3356+19 SOLID RT

646.614 TEMPORARY 6" WHITE LINE

~~3078+66 TO 3356+19 SOLID LT~~
~~3078+66 TO 3356+19 DASHED CL~~

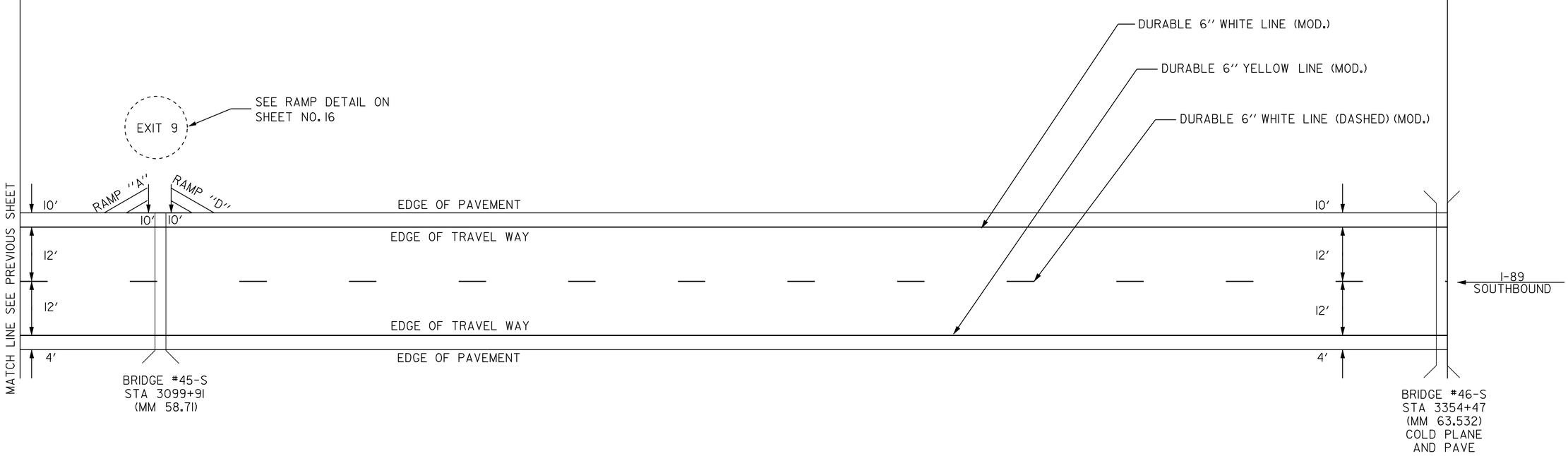
646.615 TEMPORARY 6" YELLOW LINE

~~3078+66 TO 3356+19 SOLID RT~~

~~604.412 REHABING DI,CB OR MH CLASS I~~
~~3090+91 LT~~

STA 3078+66
(MM 58.308)

INTERSTATE ROUTE 89 SB
STA 3356+19
(MM 63.564)
END PROJECT
IM 089-2(34)



NOT TO SCALE

PAVING PROJECT LAYOUT #2

PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/p03a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM NAME: p03a026102.i

PLOT DATE: 11-APR-2005 10:18
DRAWN BY:
CHECKED BY:
SHEET 12 OF 23

621.505 MANUFACTURED TERMINAL SECTIONS (FLARED)

2814+19 ~ 2814+56.5 RT
2840+16 ~ 2840+53.5 RT
2876+12 ~ 2876+49.5 RT
2905+00 ~ 2905+37.5 LT
2942+86 ~ 2943+23.5 RT
3026+71 ~ 3027+08.5 RT
3067+10 ~ 3067+47.5 RT

SB 56.983 TO SB 56.990 LT.
SB 58.022 TO SB 58.029 LT.
SB 53.602 TO SB 53.609 LT.
SB 54.352 TO SB 54.359 LT.
SB 55.042 TO SB 55.050 LT.
SB 53.883 TO SB 53.890 RT.
SB 55.372 TO SB 55.379 RT.
SB 55.677 TO SB 55.684 RT.
SB 56.387 TO SB 56.394 RT.
NB 54.698 TO NB 54.705 RT.
MSH RAMP "D" RT.
NB 57.324 TO NB 57.331 RT.
NB 55.019 TO NB 55.026 LT.
NB 54.472 TO NB 54.479 RT.
NB 55.736 TO NB 55.743 RT.
NB 56.107 TO NB 56.113 LT.
NB 53.299 TO NB 53.306 RT.
NB 53.791 TO NB 53.798 RT.
NB 58.089 TO NB 58.096 RT.

621.80 REMOVAL & DISP. OF GUARDRAIL

2814+19 ~ 2814+56.5 RT
2840+16 ~ 2840+53.5 RT
2876+12 ~ 2876+49.5 RT
2905+00 ~ 2905+37.5 LT
2942+86 ~ 2943+23.5 RT
3026+71 ~ 3027+08.5 RT
3067+10 ~ 3067+47.5 RT

646.414 DURABLE 6'' WHITE LINE (MOD.)

2800+72 TO 3078+66 SOLID RT.
2800+72 TO 3078+66 DASH RT.

646.415 DURABLE 6'' YELLOW LINE (MOD.)

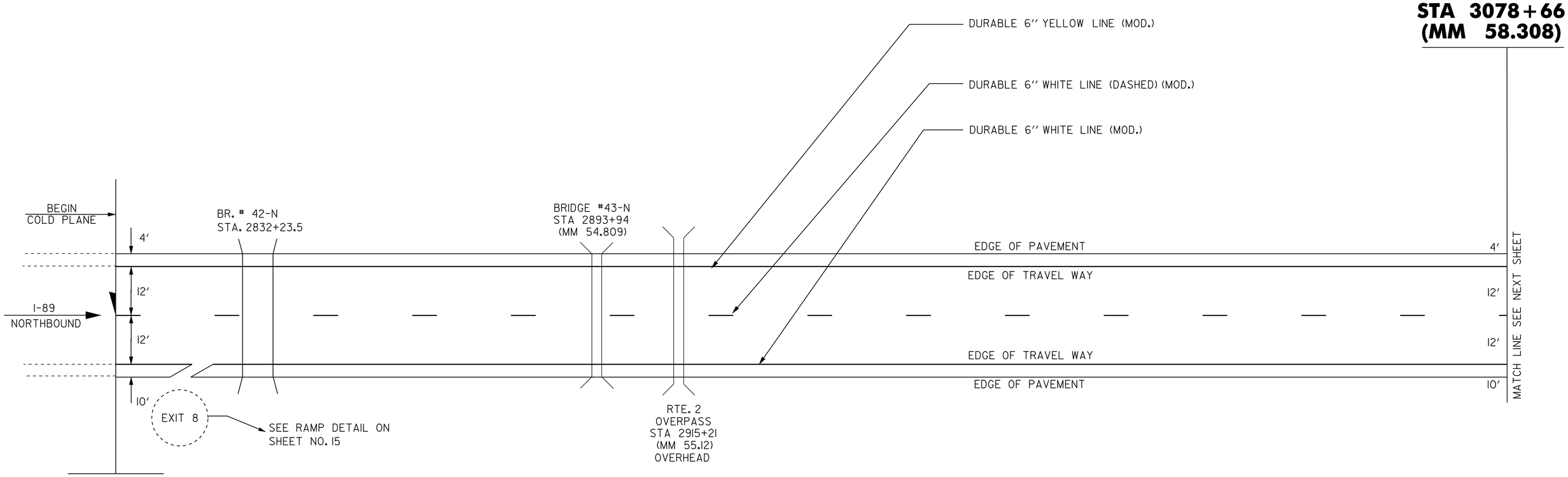
2800+72 TO 3078+66 SOLID LT.

646.614 TEMPORARY 6'' WHITE LINE

2800+72 TO 3078+66 SOLID RT.
2800+72 TO 3078+66 DASH RT.

646.615 TEMPORARY 6'' YELLOW LINE

2800+72 TO 3078+66 SOLID LT.



INTERSTATE ROUTE 89 NB
STA 2800+72
(MM 53.044)
BEGIN PROJECT
IM 089-2(34)

STA 3078+66
(MM 58.308)

NOT TO SCALE

PAVING PROJECT LAYOUT #3

PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/p03a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM NAME: p03a026103.i

PLOT DATE: 11-APR-2005 10:18
DRAWN BY:
CHECKED BY:
SHEET 13 OF 23

621.505 MANUFACTURED TERMINAL SECTION

3086+64 ~ 3087+01.5 RT
3098+20 ~ 3098+57.5 RT
3108+28 ~ 3108+65.5 RT
3134+47 ~ 3134+84.5 RT
3165+78 ~ 3166+15.5 RT
3181+68 ~ 3182+05.5 RT
3201+16 ~ 3201+53.5 RT
3221+43 ~ 3221+80.5 RT
3250+21 ~ 3250+58.5 RT
3268+69 ~ 3269+06.5 RT
3291+76 ~ 3292+13.5 RT

SB 60.752 TO SB 60.759 LT. NB 59.365 TO NB 59.372 RT.
SB 60.150 TO SB 60.169 LT. NB 59.958 TO NB 59.965 RT.
SB 60.459 TO SB 60.466 LT. NB 58.615 TO NB 58.622 LT.
SB 58.852 TO SB 58.859 LT. NB 60.259 TO NB 60.266 RT.
SB 59.249 TO SB 59.256 LT. NB 60.628 TO NB 60.635 RT.
SB 59.762 TO SB 59.769 LT. NB 61.012 TO NB 61.019 RT.
SB 58.828 TO SB 58.835 RT. NB 61.557 TO NB 61.564 RT.
MSH RAMP "D" RT. NB 61.907 TO NB 61.914 RT.
NB 58.459 TO NB 58.466 RT. NB 62.344 TO NB 62.351 RT.
NB 58.678 TO NB 58.685 RT.
NB 58.869 TO NB 58.876 RT.

STA 3078+66
(MM 58.308)

621.80 REMOVAL & DISP. OF GUARDRAIL

3086+64 ~ 3087+01.5 RT
3098+20 ~ 3098+57.5 RT
3100+97.5 ~ 3101+10 RT
3108+28 ~ 3108+65.5 RT
3134+47 ~ 3134+84.5 RT
3165+78 ~ 3166+15.5 RT
3181+68 ~ 3182+05.5 RT
3201+16 ~ 3201+53.5 RT
3221+43 ~ 3221+80.5 RT
3250+21 ~ 3250+58.5 RT
3268+69 ~ 3269+06.5 RT
3291+76 ~ 3292+13.5 RT

646.414 DURABLE 6'' WHITE LINE (MOD.)

STA 3078+66 TO 3300+00 SOLID RT.
STA 3078+66 TO 3300+00 DASH RT.

646.415 DURABLE 6'' YELLOW LINE (MOD.)

STA 3078+66 TO 3300+00 SOLID LT.

646.614 TEMPORARY 6'' WHITE LINE

STA 3078+66 TO 3300+00 SOLID RT.
STA 3078+66 TO 3300+00 DASH RT.

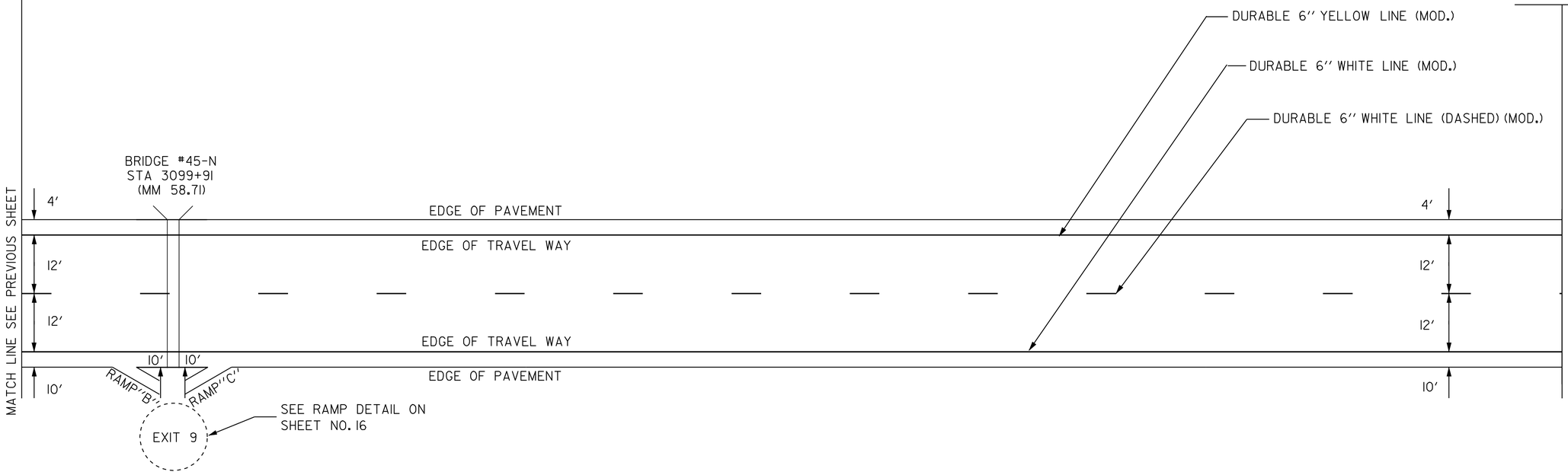
646.615 TEMPORARY 6'' YELLOW LINE

STA 3078+66 TO 3300+00 SOLID LT.

604.412 REHABING DI,CB OR MH CLASS I

3115+75 RT

INTERSTATE ROUTE 89 NB
STA 3300+00
(MM 62.50)
END PROJECT
IM 089-2(34)



NOT TO SCALE

PAVING PROJECT LAYOUT #4

PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/p03a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM NAME: p03a026104.i

PLOT DATE: 11-APR-2005 10:18
DRAWN BY:
CHECKED BY:
SHEET 14 OF 23

646.414 DURABLE 6'' WHITE LINE (MOD.)
EXIT # 8 OFF RAMP ''D'' SOLID RT (2640')
EXIT # 8 OFF RAMP ''D'' DASH (20')
EXIT # 8 OFF RAMP ''D'' DOTTED (79')
EXIT # 8 ON RAMP ''B'' SOLID RT (951')
EXIT # 8 ON RAMP ''B'' DASH (60')

646.614 TEMPORARY 6'' WHITE LINE
EXIT # 8 OFF RAMP ''D'' SOLID RT (2640')
EXIT # 8 OFF RAMP ''D'' DASH (20')
EXIT # 8 OFF RAMP ''D'' DOTTED (79')
EXIT # 8 ON RAMP ''B'' SOLID RT (951')
EXIT # 8 ON RAMP ''B'' DASH (60')

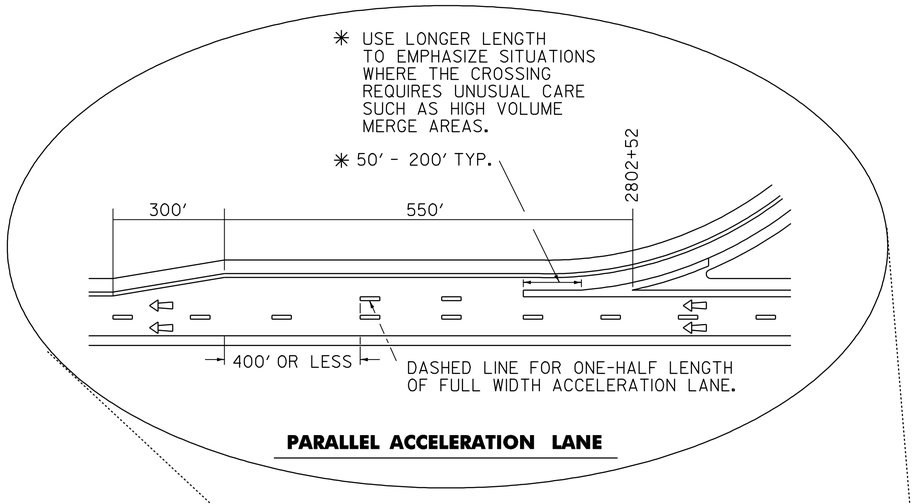
646.415 DURABLE 6'' YELLOW LINE (MOD.)
EXIT # 8 OFF RAMP ''D'' SOLID LT (2112')
EXIT # 8 ON RAMP ''B'' SOLID LT (475')

646.615 TEMPORARY 6'' YELLOW LINE
EXIT # 8 OFF RAMP ''D'' SOLID LT (2112')
EXIT # 8 ON RAMP ''B'' SOLID LT (475')

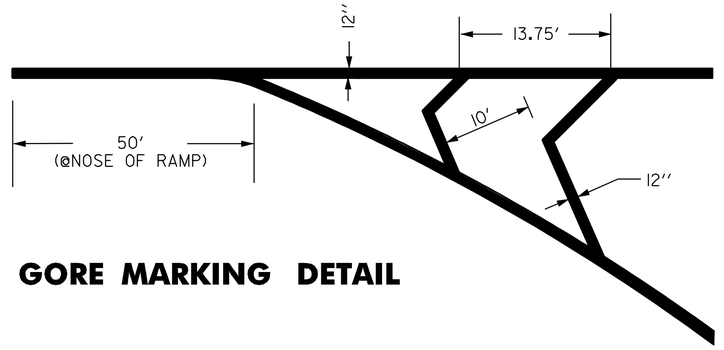
646.44 DURABLE 12' WHITE LINE LINE
EXIT # 8 OFF RAMP ''D'' GORE AREA (318')
EXIT # 8 ON RAMP ''B'' GORE AREA (317')

646.64 TEMPORARY 12' WHITE LINE LINE
EXIT # 8 OFF RAMP ''D'' GORE AREA (318')
EXIT # 8 ON RAMP ''B'' GORE AREA (317')

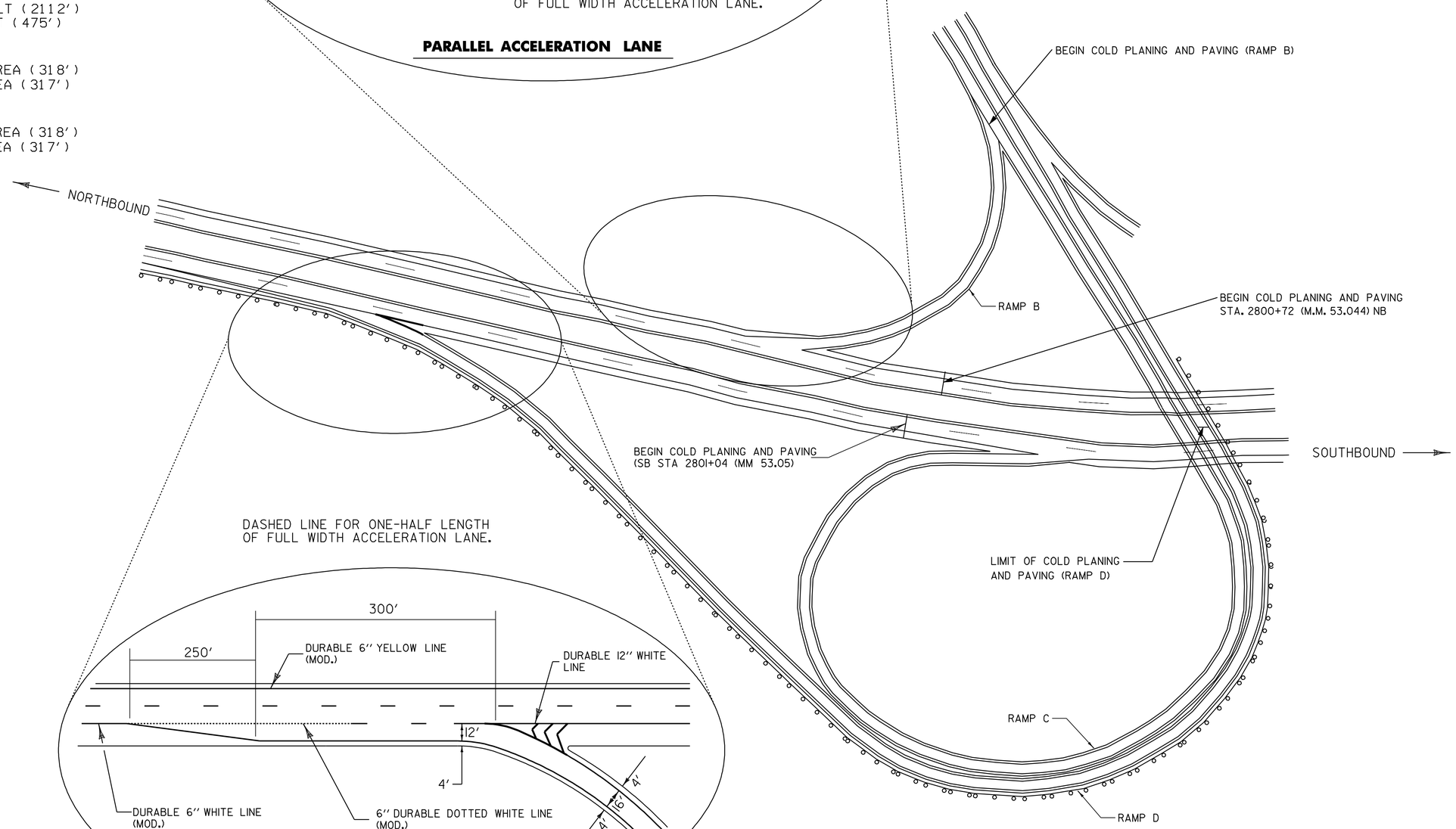
604.412 REHABING DI, CB, OR MH
EXIT 8 OFF RAMP STA (2 EA.).
EXIT 8 ON RAMP (1 EA.)

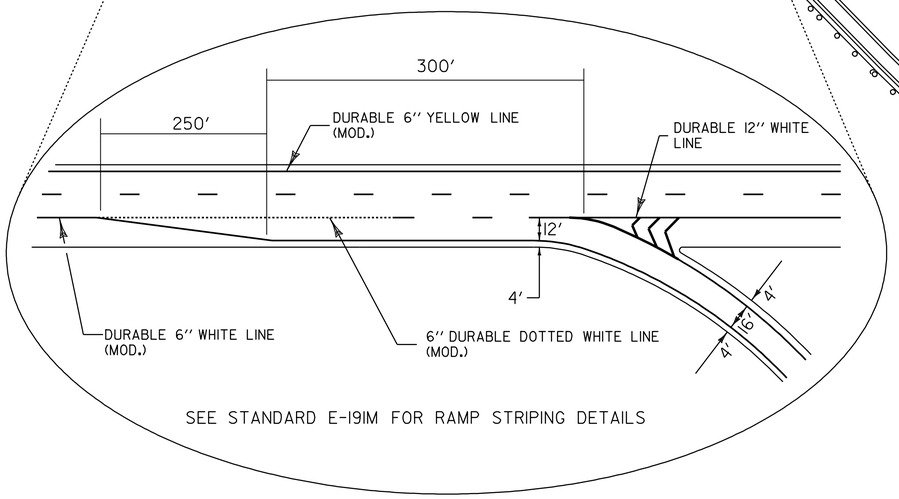


PARALLEL ACCELERATION LANE



GORE MARKING DETAIL





SEE STANDARD E-191M FOR RAMP STRIPING DETAILS

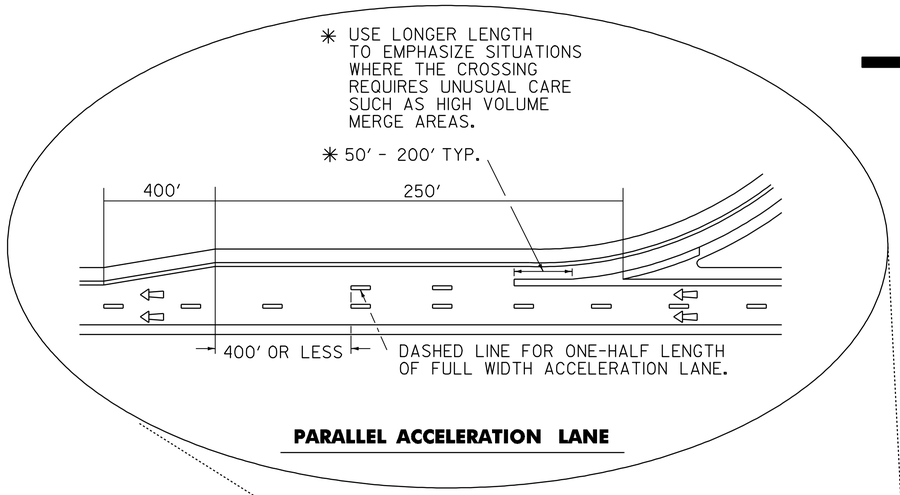
NOT TO SCALE

RAMP DETAIL INTERCHANGE #8 OFF RAMP

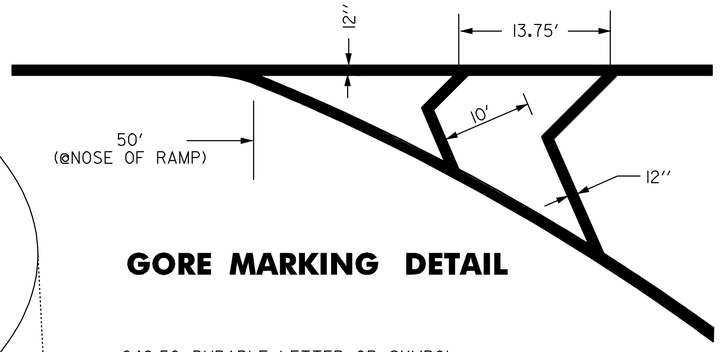
PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/p03a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM NAME: p03a026i*8.i

PLOT DATE: 11-APR-2005 10:18
DRAWN BY:
CHECKED BY:
SHEET 15 OF 23



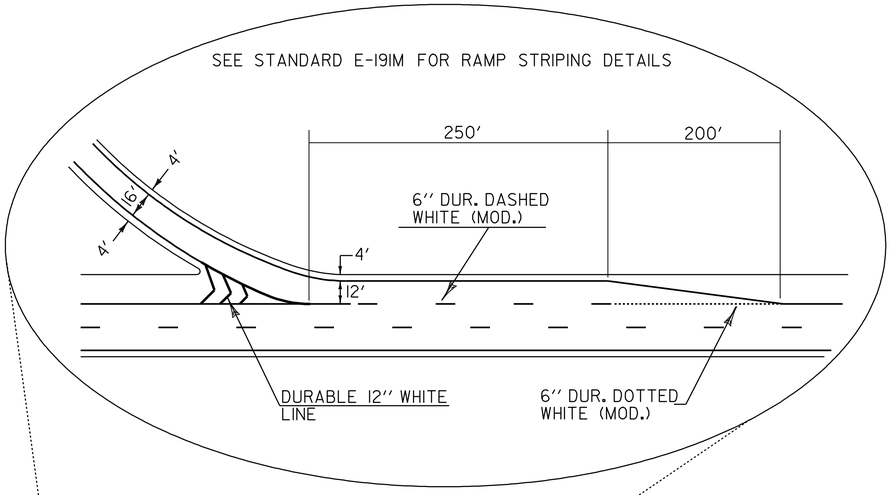
PARALLEL ACCELERATION LANE

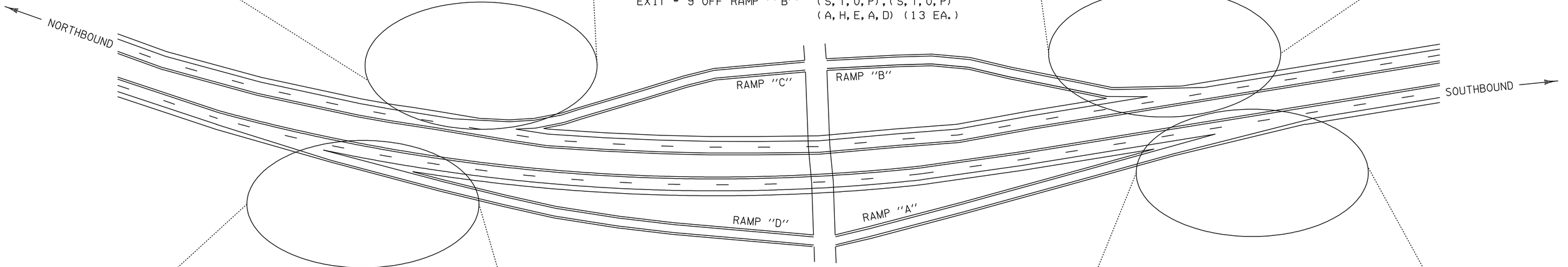


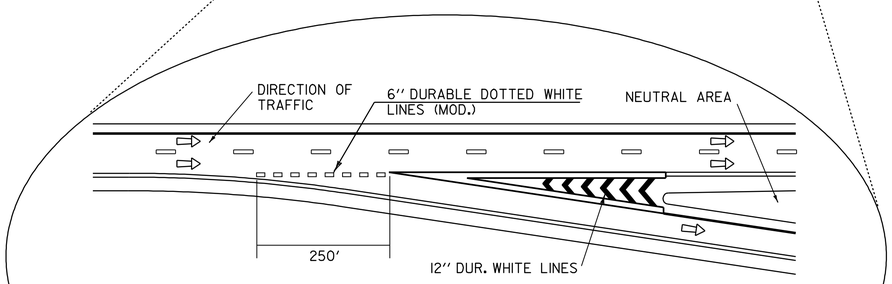
GORE MARKING DETAIL

646.50 DURABLE LETTER OR SYMBOL
EXIT # 9 OFF RAMP ''D'' (S, T, 0, P), (S, T, 0, P)
(A, H, E, A, D) (13 EA.)
EXIT # 9 OFF RAMP ''B'' (S, T, 0, P), (S, T, 0, P)
(A, H, E, A, D) (13 EA.)

646.70 TEMPORARY LETTER OR SYMBOL
EXIT # 9 OFF RAMP ''D'' (S, T, 0, P), (S, T, 0, P)
(A, H, E, A, D) (13 EA.)
EXIT # 9 OFF RAMP ''B'' (S, T, 0, P), (S, T, 0, P)
(A, H, E, A, D) (13 EA.)







TRANSVERSE LINES SHALL CONSIST OF A WHITE LINE 2 TIMES WIDER THAN THE MAIN LINE MARKING WIDTH SPACED 5′-0″ C-C AND SET AT 45° TO MAIN LINE EDGE LINES. THESE MARKINGS SHALL BE USED TO INCREASE VISIBILITY DUE TO DIFFICULT VERTICAL OR HORIZONTAL ALIGNMENT, AS DIRECTED BY THE RESIDENT ENGINEER.

TAPERED DECELERATION LANE

646.46 DURABLE 24′ WHITE LINE LINE
EXIT # 9 SB OFF RAMP ''D'' (20′)
EXIT # 9 NB OFF RAMP ''B'' (20′)

646.66 TEMPORARY 12′ WHITE LINE LINE
EXIT # 9 SB OFF RAMP ''D'' (20′)
EXIT # 9 NB OFF RAMP ''B'' (20′)

NOT TO SCALE

646.414 DURABLE 6″ WHITE LINE (MOD.)
EXIT # 9 SB OFF RAMP ''D'' SOLID RT (1320′)
EXIT # 9 SB OFF RAMP ''D'' DOTTED (64′)
EXIT # 9 SB ON RAMP ''A'' SOLID RT (1537′)
EXIT # 9 SB ON RAMP ''A'' DASH (60′)
EXIT # 9 NB OFF RAMP ''B'' SOLID RT (1051′)
EXIT # 9 NB OFF RAMP ''B'' DOTTED (79′)
EXIT # 9 NB OFF RAMP ''B' DASH (30′)
EXIT # 9 NB ON RAMP ''C'' SOLID RT (1152′)
EXIT # 9 NB ON RAMP ''C'' DASH (60′)

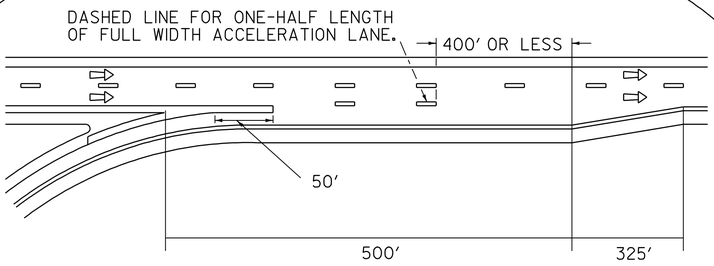
646.614 TEMPORARY 6″ WHITE LINE
EXIT # 9 SB OFF RAMP ''D'' SOLID RT (1320′)
EXIT # 9 SB OFF RAMP ''D'' DOTTED (64′)
EXIT # 9 SB ON RAMP ''A'' SOLID RT (1537′)
EXIT # 9 SB ON RAMP ''A'' DASH (60′)
EXIT # 9 NB OFF RAMP ''B'' SOLID RT (1051′)
EXIT # 9 NB OFF RAMP ''B'' DOTTED (79′)
EXIT # 9 NB OFF RAMP ''B' DASH (30′)
EXIT # 9 NB ON RAMP ''C'' SOLID RT (1152′)
EXIT # 9 NB ON RAMP ''C'' DASH (60′)

646.415 DURABLE 6″ YELLOW LINE (MOD.)
EXIT # 9 SB OFF RAMP ''D'' SOLID LT (845′)
EXIT # 9 SB ON RAMP ''A'' SOLID LT (634′)
EXIT # 9 NB OFF RAMP ''B'' SOLID LT (576′)
EXIT # 9 NB ON RAMP ''C'' SOLID RT (533′)

646.615 TEMPORARY 6″ YELLOW LINE
EXIT # 9 SB OFF RAMP ''D'' SOLID LT (845′)
EXIT # 9 SB ON RAMP ''A'' SOLID LT (634′)
EXIT # 9 NB OFF RAMP ''B'' SOLID LT (576′)
EXIT # 9 NB ON RAMP ''C'' SOLID RT (533′)

646.44 DURABLE 12′ WHITE LINE LINE
EXIT # 9 SB OFF RAMP ''D'' GORE AREA (528′)
EXIT # 9 SB ON RAMP ''A'' GORE AREA (528′)
EXIT # 9 NB OFF RAMP ''B'' GORE AREA (317′)
EXIT # 9 NB ON RAMP ''C'' GORE AREA (306′)

646.64 TEMPORARY 12′ WHITE LINE LINE
EXIT # 9 SB OFF RAMP ''D'' GORE AREA (528′)
EXIT # 9 SB ON RAMP ''A'' GORE AREA (528′)
EXIT # 9 NB OFF RAMP ''B'' GORE AREA (317′)
EXIT # 9 NB ON RAMP ''C'' GORE AREA (306′)

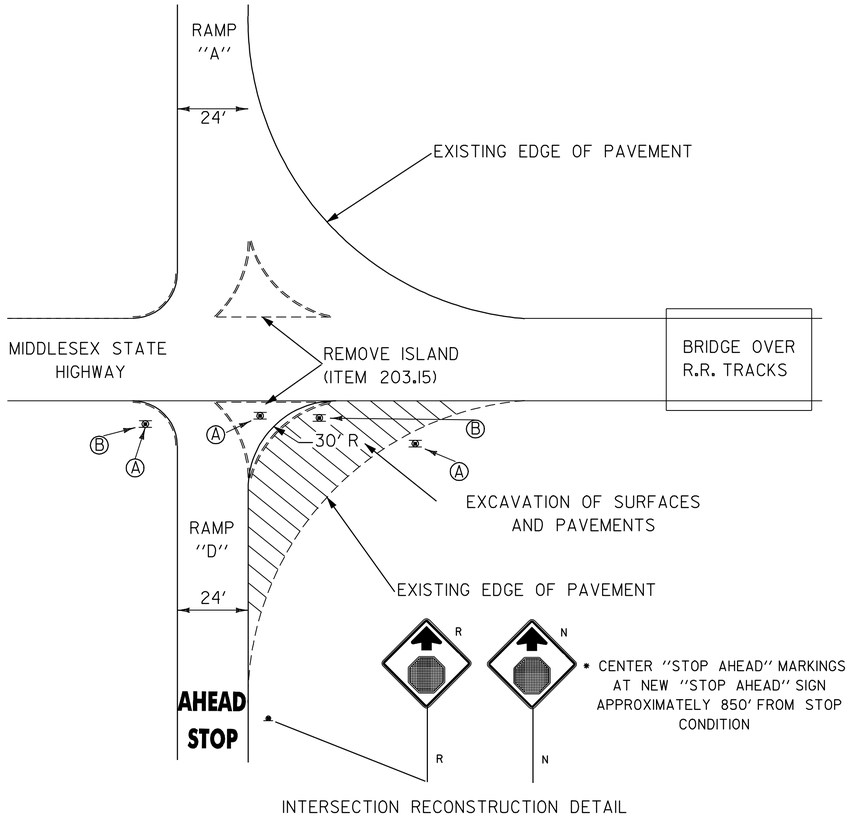


PARALLEL ACCELERATION LANE

INTERCHANGE#9 DETAIL SHEET 1

PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)

FILE NAME: 03a026\Pavement\pa026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM NAME: p03a026i#9a.i
PLOT DATE: 11-APR-2005 10:18
DRAWN BY:
CHECKED BY:
SHEET 16 OF 23



INTERSECTION RECONSTRUCTION DETAIL

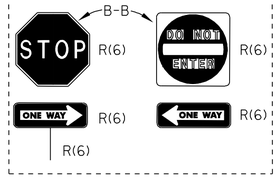
RAMPS ''A'', ''B'', ''C'', & ''D''

RAISED ISLAND REMOVAL

NOT TO SCALE

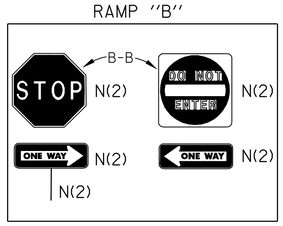
Ⓐ

RAMP ''B'' & RAMP ''D''



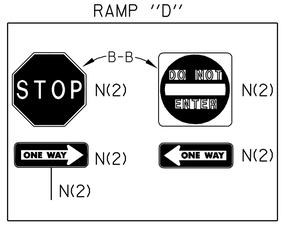
Ⓑ

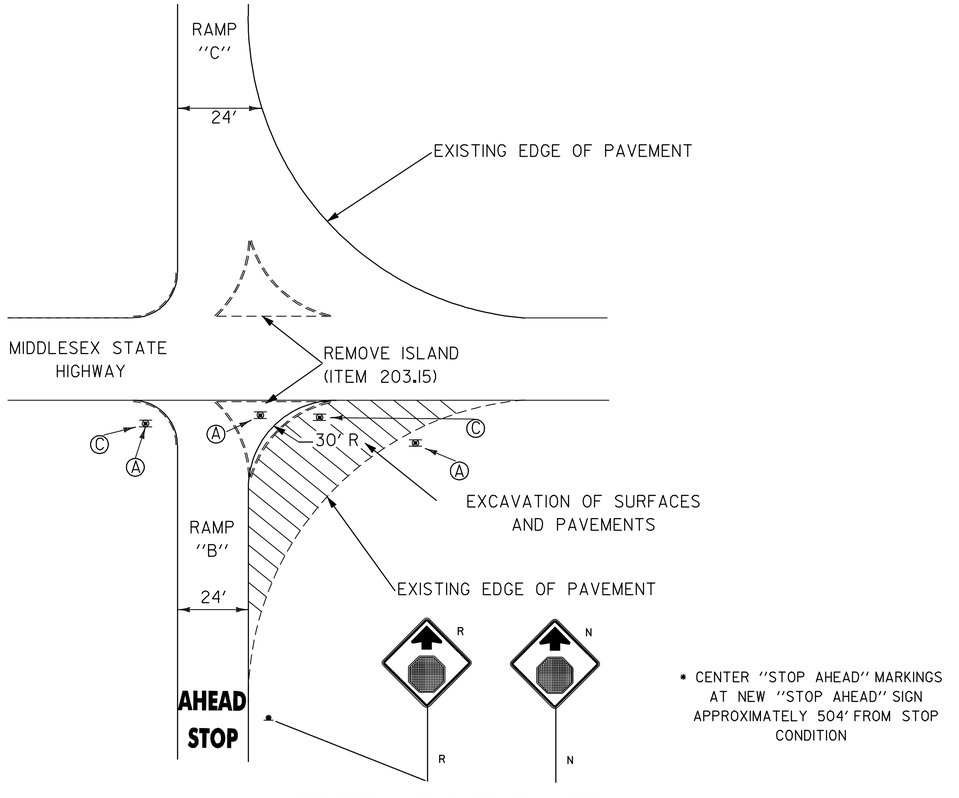
RAMP ''B''



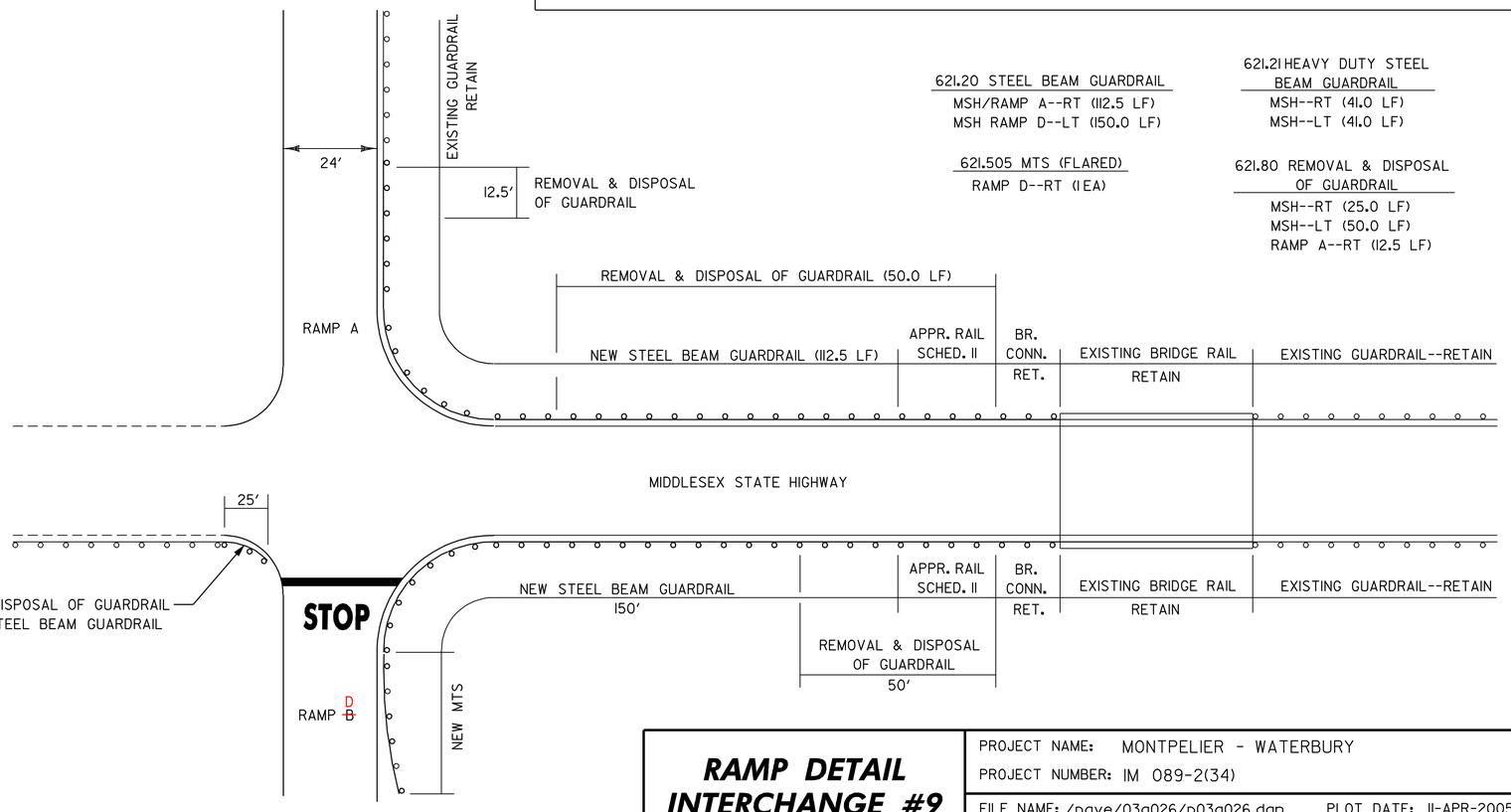
Ⓒ

RAMP ''D''





INTERSECTION RECONSTRUCTION DETAIL



NOT TO SCALE

BRIDGE APPROACH RAILING

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

SCHEDULE II

POST NO.	SPACING	PAYMENT FACTOR
1	3'- 1½''	1.4 x 18'-9''
2	3'- 1½''	
3	3'- 1½''	
4	3'- 1½''	
5	3'- 1½''	
6	3'- 1½''	
7	4'-2''	1.2 x 12'-6''
8	4'-2''	
9	4'-2''	
10	6'-3'' (TYP.)	1.0 (TYP.)
11		

RAMP DETAIL INTERCHANGE #9 OFF RAMP

PROJECT NAME: MONTPELIER - WATERBURY

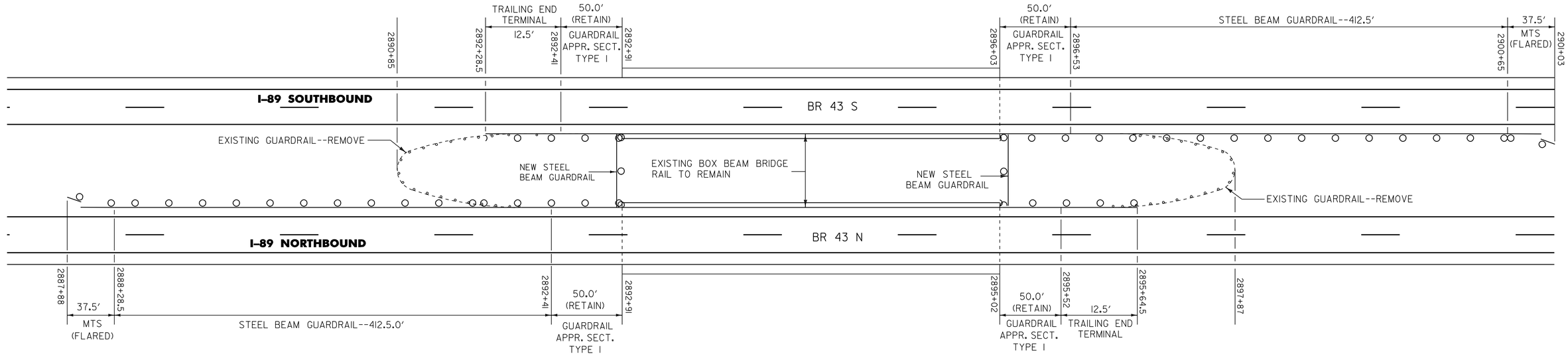
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/p03a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM NAME: p03a02619#b.i

PLOT DATE: 11-APR-2005 10:18
DRAWN BY:
CHECKED BY:
SHEET 17 OF 23

GUARDRAIL TREATMENT AT BULLNOSE LOCATIONS—BRIDGES

LOCATIONS:
SB MM 54.778 TO SB MM 54.937 BR 43 S
NB MM 54.695 TO NB MM 54.842 BR 43 N



621.20 STEEL BEAM GUARDRAIL

NB--2892+41 LT (50 LF)
NB--2895+02 LT (50 LF)
NB--2888+28 ~ 2892+41 LT
SB--2896+53 ~ 2900+65 RT

621.52 MTS (TRAILING END TERMINAL)

NB--2895+52 ~ 2895+64.5 LT
SB--2892+28.5 ~ 2892+41 RT

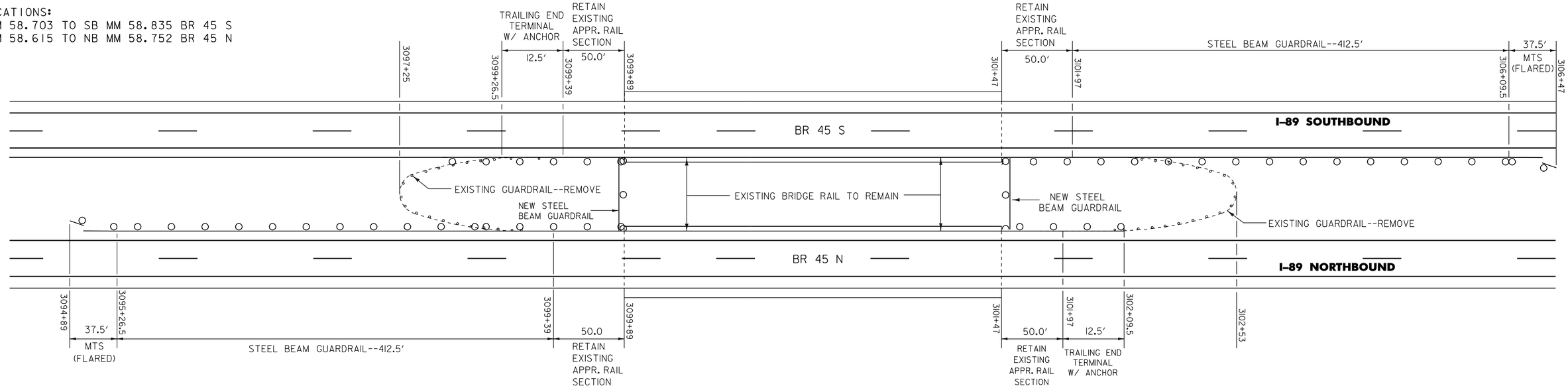
621.505 MTS (FLARED)

NB--2887+88 ~ 2888+28 LT
SB--2900+65 ~ 2901+03 RT

621.80 REMOVING AND DISPOSAL OF GUARDRAIL

NB--2890+85 ~ 2892+41 LT (275 LF)
NB--2896+53 ~ 2897+87 LT (300 LF)

LOCATIONS:
SB MM 58.703 TO SB MM 58.835 BR 45 S
NB MM 58.615 TO NB MM 58.752 BR 45 N



621.20 STEEL BEAM GUARDRAIL

SB--3095+26.5 ~ 3099+39 LT
SB--3101+97 ~ 3106+09.5 RT
NB--3099+89 LT (50 LF)
NB--3101+47 LT (50 LF)

621.505 MTS (FLARED)

NB--3094+89 ~ 3095+26 LT
SB--3106+09.5 ~ 3106+47 RT

621.80 REMOVING AND DISPOSAL OF GUARDRAIL

NB--3097+25 ~ 3099+39 (450 LF)
NB--3101+97 ~ 3102+53 (125 LF)

621.52 MTS (TRAILING END TERMINAL)

NB--3101+97 ~ 3102+09.5 LT
SB--3099+26 ~ 3099+39 RT

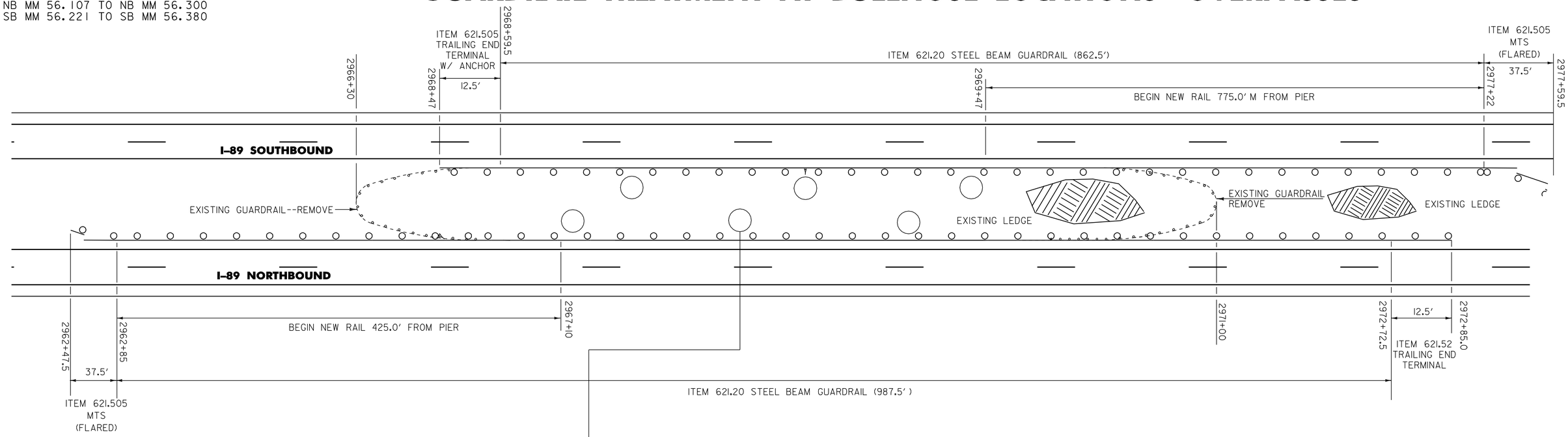
THE CONTRACTOR SHALL WIDEN WITH EARTH BORROW ADJACENT TO THE 4.0′ SHOULDER TO PROVIDE BACKING FOR THE NEW GUARDRAIL AND TO CONSTRUCT A FLARE FOR THE END TERMINAL. CONSTRUCTION OF THE WIDENING AND TERMINAL FLARE SHALL BE COMPLETED IN ACCORDANCE WITH STANDARD G-19.

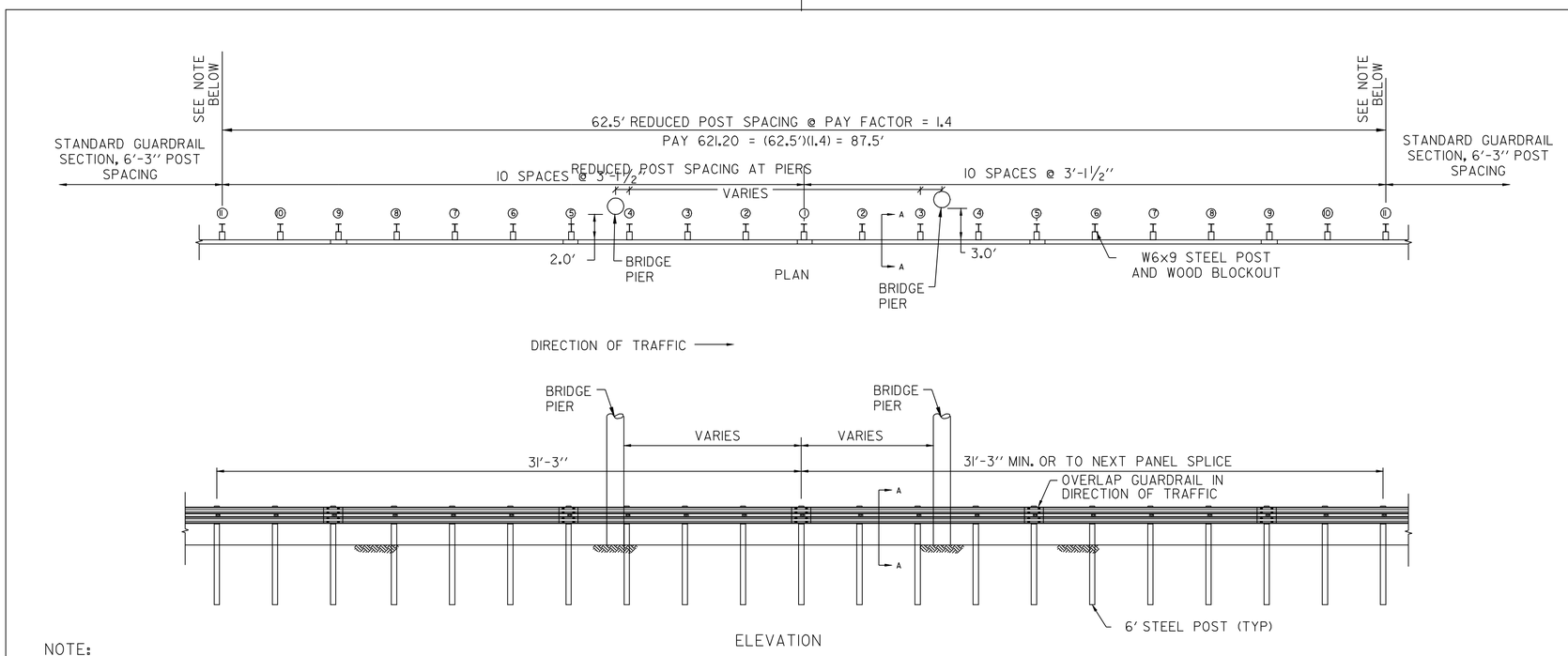
BULLNOSE TREATMENT DETAIL SHEET 1

PROJECT: MONTPELIER - WATERBURY	PROJECT NO.: IM 089-2(34)
DESIGN FILE NAME: /pave/03a026/03a026.dgn	
IPARM FILE NAME: p03a026grl.i	PLOT DATE: 1-APR-2005 10:
SURVEYED BY: N/A	SURVEY DATE:
SQUAD LEADER: MW	DRAWN BY: JLR
	SHEET: 18 OF 23

LOCATIONS:
BR 55 VT. U.S. RTE 2 OVER I-89
NB MM 56.107 TO NB MM 56.300
SB MM 56.221 TO SB MM 56.380

GUARDRAIL TREATMENT AT BULLNOSE LOCATIONS—OVERPASSES





NOTE:
TO BE PLACED AT THE FOLLOWING LOCATIONS:
STA. 2968+87 ~ 2969+49 RT(SB)
STA. 2967+07 ~ 2967+70 RT(NB)

NON-YIELDING OBJECT APPROACH DETAIL

621.20 STEEL BEAM GUARDRAIL

NB--2962+85 ~ 2972+60 LT
SB--2968+59.5 ~ 2977+72 RT

621.505 MTS (FLARED)

NB--2962+47.5 ~ 2962+85 LT
SB--2977+72 ~ 2978+09.5 RT

621.52 MTS (TRAILING END TERMINAL)

SB--2968+47 ~ 2968+59.5 RT
NB--2972+60 ~ 2972+72.5 LT

621.80 REMOVAL & DISPOSAL OF GUARDRAIL

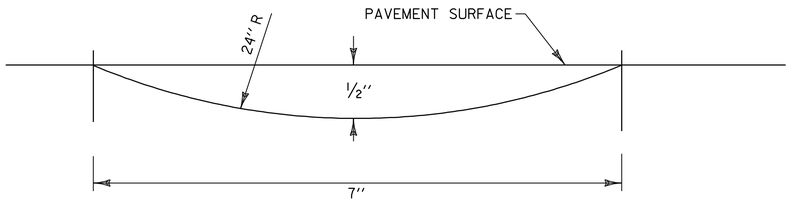
NB--2966+30 ~ 2977+10 LT (175 LF)
SB--2969+47 ~ 2971+00 LT (300 LF)

THE CONTRACTOR SHALL WIDEN WITH EARTH BORROW ADJACENT TO THE 4.0' SHOULDER TO PROVIDE BACKING FOR THE NEW GUARDRAIL AND TO CONSTRUCT A FLARE FOR THE END TERMINAL. CONSTRUCTION OF THE WIDENING AND TERMINAL FLARE SHALL BE COMPLETED IN ACCORDANCE WITH STANDARD G-19.

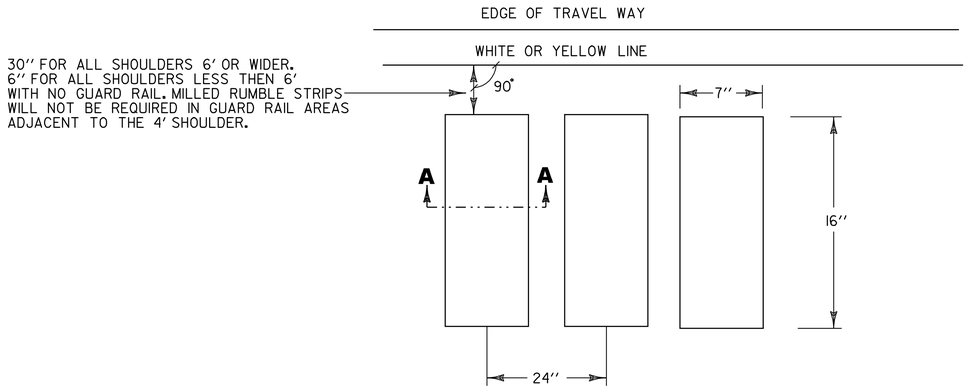
BULLNOSE TREATMENT DETAIL SHEET 2

PROJECT: MONTPELIER - WATERBURY	PROJECT NO.: IM 089-2(34)
DESIGN FILE NAME: /pave/03a026/03a026.dgn	
IPARM FILE NAME: p03a026gr2.I	PLOT DATE: 1-APR-2005 10:
SURVEYED BY: N/A	SURVEY DATE:
SQUAD LEADER: MW	DRAWN BY: JLR
	SHEET: 19 OF 23

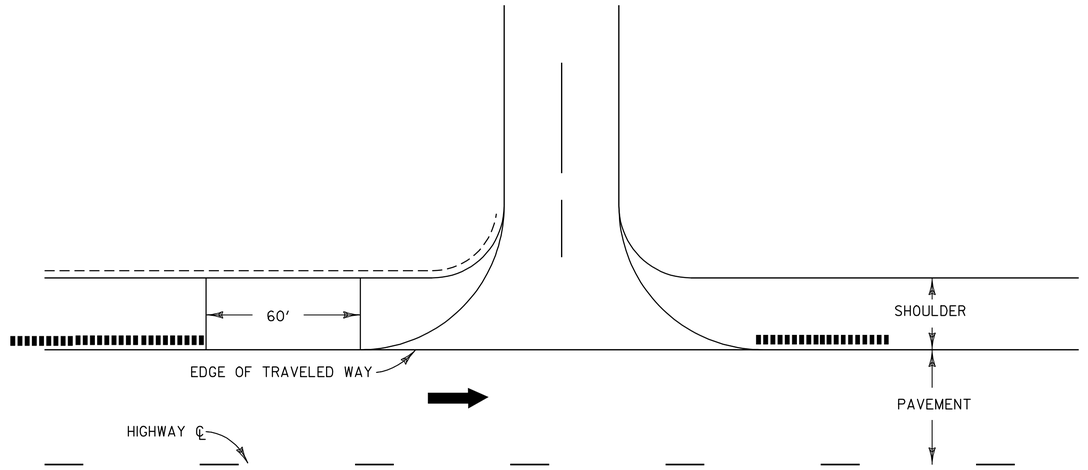
TYPICAL MILLING DETAIL



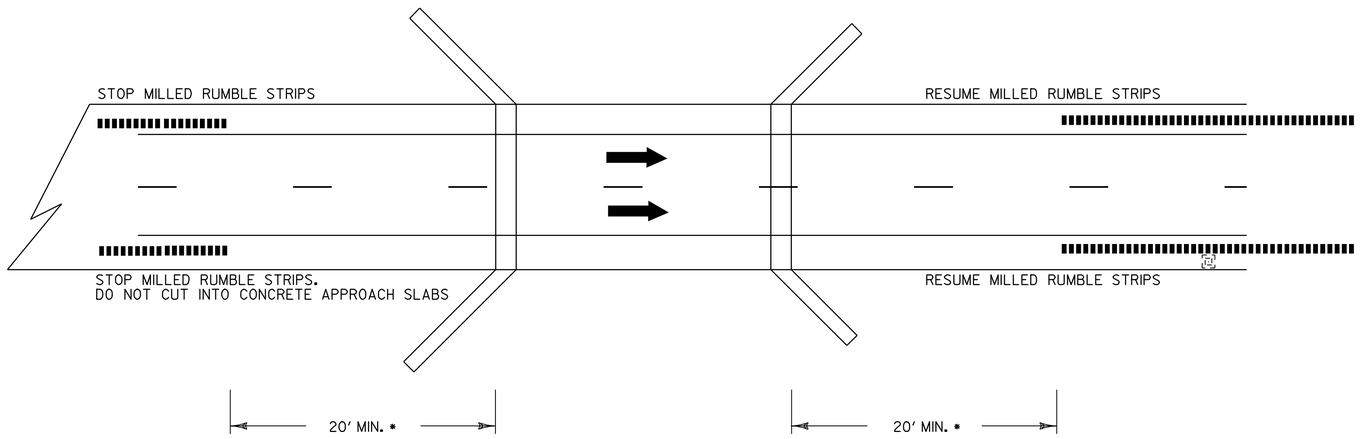
SECTION A-A



U TURN DETAIL



BRIDGE DETAIL



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

LEGEND

DIRECTION OF TRAFFIC FLOW

MILLED RUMBLE STRIPS

NOT TO SCALE

MILLED RUMBLE STRIPS DETAIL #1

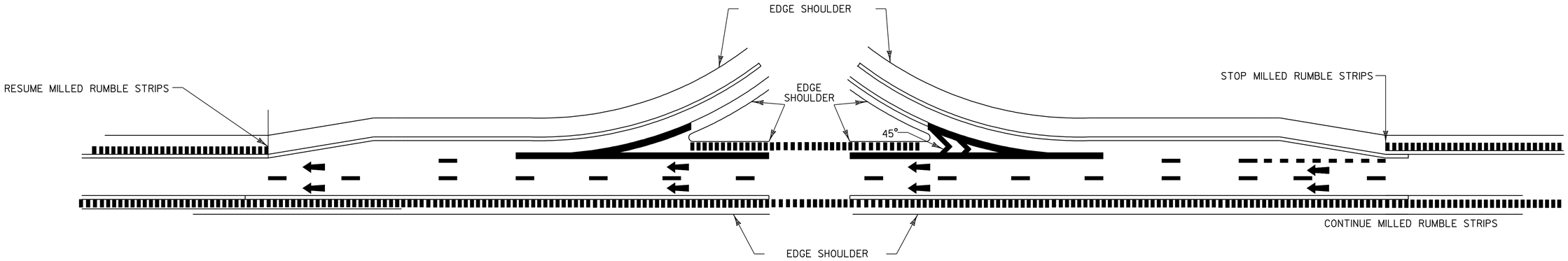
PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/p03a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM FILE NAME: p03a026mr1.i

PLOT DATE: 11-APR-2005 10:19
DRAWN BY:
CHECKED BY: _____
SHEET 20 OF 23

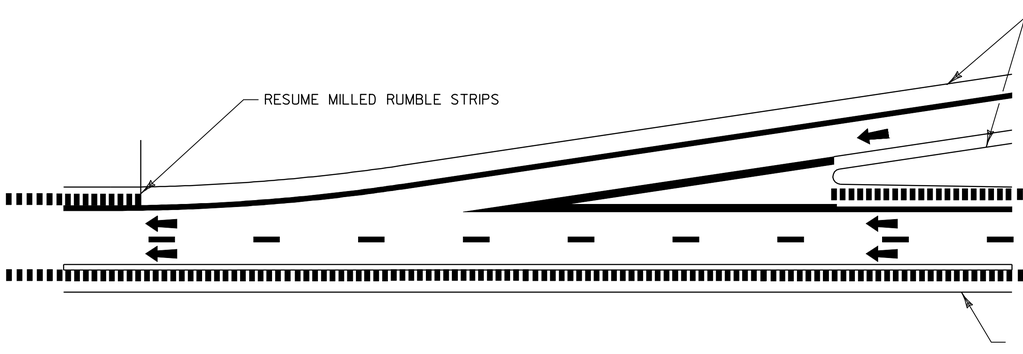
TYPICAL MILLED RUMBLE STRIPS AT INTERCHANGES & REST AREAS

PARALLEL ACCELERATION LANE

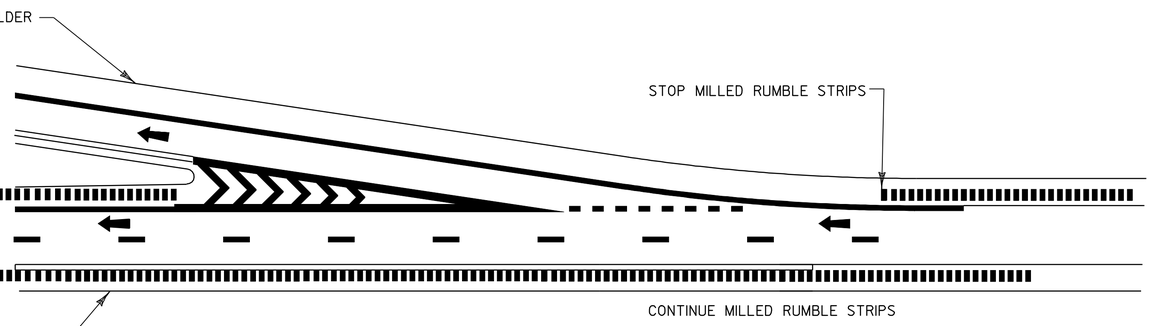


PARALLEL DECELERATION LANE

TAPERED ACCELERATION LANE



TAPERED DECELERATION LANE



LEGEND

DIRECTION OF TRAFFIC FLOW

MILLED RUMBLE STRIPS

NOT TO SCALE

NOTES:

1) THIS TYPICAL MAYBE MODIFIED AT THE RESIDENT ENGINEER DISCRETION IF THE ACTUAL FIELD CONDITIONS NECESSITATE SUCH ACTIONS.

MILLED RUMBLE STRIPS DETAIL #2

PROJECT NAME: MONTPELIER - WATERBURY
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/p03a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM FILE NAME: p03a026mr2.1

PLOT DATE: 11-APR-2005 10:19
DRAWN BY:
CHECKED BY: _____
SHEET 21 OF 23

STATE OF VERMONT
AGENCY OF TRANSPORTATION

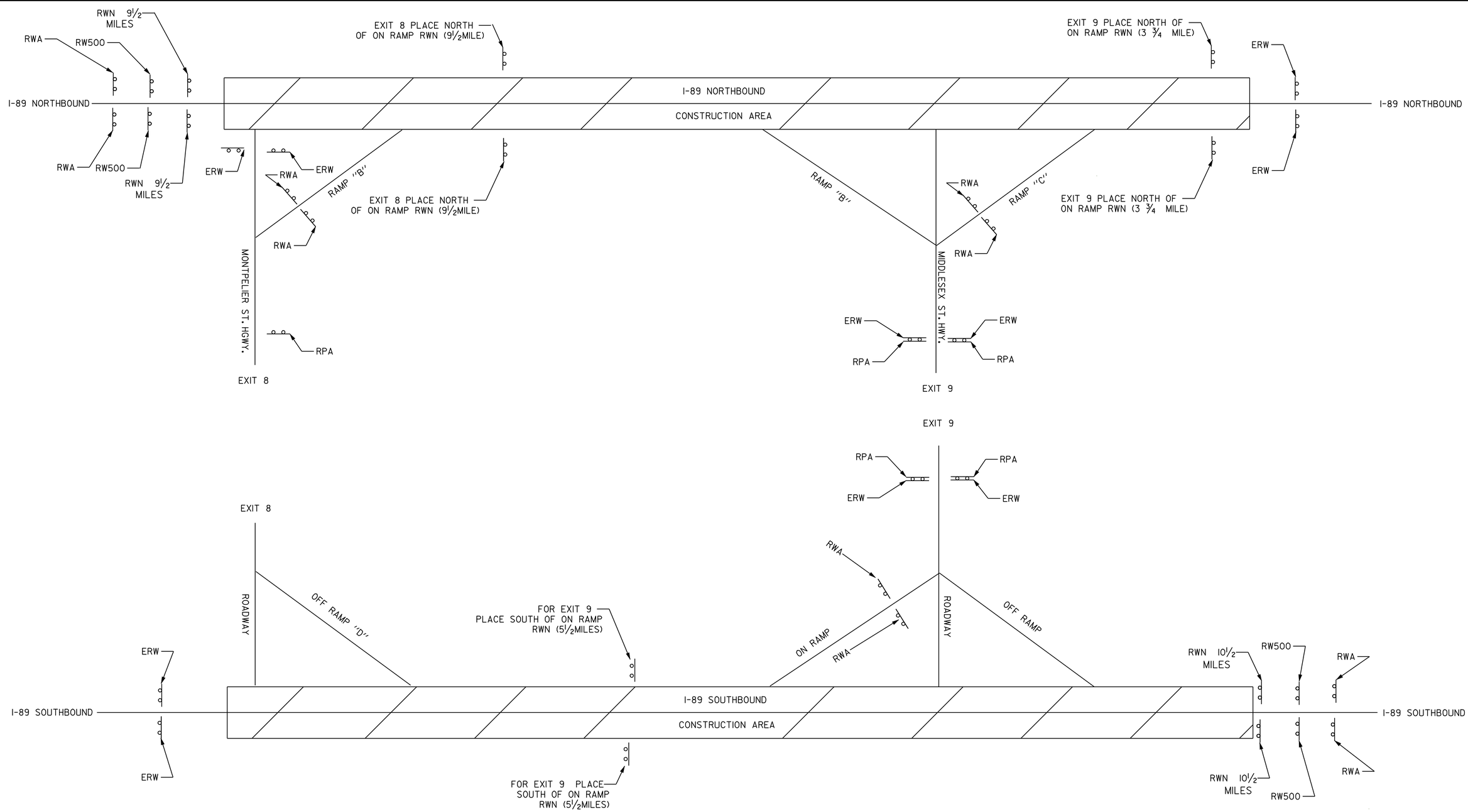
TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) 1.75 lb/ft 1.88	2.0 lb/ft 2.16	2.5 lb/ft 3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) 3.0 lb/ft 1.3	4.0 lb/ft 1.7	4.0 MOD lb/ft 1.7	TUBULAR STEEL Ø (in) FOUND-ATION	3.0 lb/ft 7.6	3.5 lb/ft 9.0	4.0 lb/ft 10.8	5.0 lb/ft 14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAMEMENT REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
														OPTION ITEMS																							
EXIT 9 RAMP B OFF RAMP(RT)		1	36	36	9						2			IX6' X		X																	INSTALL APPROXIMATELY 504' FROM STOP CONDITION		E-150
EXIT 9 RAMP B OFF RAMP (LT)&(RT)	STOP	2	30	30	12.50						2			2X14' X		X																			E-143
	ONE WAY / ONE WAY	4	36	12	12																														E-142
EXIT 9 RAMP D OFF RAMP(RT)		1	36	36	9						2			IX6' X		X																	INSTALL APPROXIMATELY 850' FROM STOP CONDITION		E-150
EXIT 9 RAMP D OFF RAMP (LT)&(RT)	STOP	2	30	30	12.50						2			2X14' X		X																			E-143
	ONE WAY / ONE WAY	4	36	12	12																														E-142
EXIT 9 RAMPS "B"&"D" (LT) & (RT)	DO NOT ENTER	4	30	30	25.0																														
																																			E-142
STA. 2815+30 NB LT. SB LT.	NB53.318 LT SB53.327 RT	2	36	36	18						4			4X14' X		X																			E-143
STA. 2898+72 NB LT. SB LT.	NB54.894 LT SB54.905 RT	2	36	36	18						4			4X14' X		X																			E-143
STA. 2959+02 ~~NB~~ LT. SB LT.	SB56.048 RT	~~1~~ 2	36	36	~~9~~ 18						4			2X14' X		X																	NB RETAINED AS PER RESIDENT		E-143
STA. 3048+36 NB LT. SB LT.	NE57.740 LT NB57.748 RT	2	36	36	18						4			4X14' X		X																			E-143
STA. 3079+61 NB LT. SB LT.	NB58.331 LT SB58.342 RT	2	36	36	18						4			4X14' X		X																			E-143
STA. 3141+60 NB LT. SB LT.	NB59.500 LT SB59.509 RT	2	36	36	18						4			4X14' X		X																			E-143
STA. 3238+12 NB LT. SB LT.	NB61.333 LT SB61.346 RT	2	36	36	18						4			4X14' X		X																			E-143
STA. 3308+13 NB LT. SB LT.	NB62.643 LT SB62.653 RT	2	36	36	18						4			4X14' X		X																			E-143
												FT	FT	FT 508 ~~640~~	FT	FT 640	FT		EA	LB	LB	LB		LB	LB	LB	LB								
TOTALS		SF ~~227~~ 211	SF	EA.	SF							FT 640			FT 640					LB			EA.	LB				EA.	EA.	LB					

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."

PROJECT NAME: ~~MONTPELIER -- WATERBURY~~
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/p03a026.dgn
PROJECT LEADER: _____
DESIGNED BY: _____
IPARM FILE NAME: p03a026ssl.i
PLOT DATE: 11-APR-2005 10:19
DRAWN BY: _____
CHECKED BY: _____
SHEET 22 OF 23



TOWN/STATE HIGHWAY NAME	ROAD WORK AHEAD	END ROAD WORK	ROAD WORK 500′	ROAD WORK NEXT 10½ MILES	ROAD WORK NEXT 9 ½MILES	ROAD WORK NEXT 5½MILES	ROAD WORK NEXT 3¾MILES	RAMP PAVING AHEAD
BEGINNING OF PROJECT NB	2	2	2		2			
BEGINNING OF PROJECT SB	2	2	2	2				
EXIT 8 RAMP ″B″	2							
MONTPELIER ST. HGWY.		2						1
MIDDLESEX ST. HGWY.		4						4
EXIT 9 RAMP ″A″		2				2		
EXIT 9 RAMP ″B″					2			
EXIT 9 RAMP ″C″		2					2	
EXIT 9 RAMP ″D″								
END OF PROJECT SB								
END OF PROJECT NB								
TOTAL	6	14	4	2	4	2	2	5

SEE STD E-100M FOR SIGN PLACEMENT

NOT TO SCALE

LEGEND

RWA = ROAD WORK AHEAD
RW500 = ROAD WORK 500′
RWN = ROAD WORK NEXT XX MILES
ERW = END ROAD WORK
RPA = RAMP PAVING AHEAD

NOTES:

1. ADDITIONAL RAMP SIGNING MAY BE REQUIRED AS DIRECTED BY THE RESIDENT ENGINEER.
2. THE BID PRICE FOR TRAFFIC CONTROL - ITEM 641.10, SHALL INCLUDE ALL APPROACH AND ON-PROJECT CONSTRUCTION SIGNING,BARRIERS,BARRELS,CONES,BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, POSTS AS DETAILED IN STANDARD E-103M. ALL ADJUSTING, RELOCATING AND REMOVING OF THESE DEVICES AS DIRECTED BY THE RESIDENT ENGINEER, SHALL BE INCLUDED.THE FOLLOWING ITEMS WILL BE PAID UNDER THEIR SPECIFIC BID PRICES:

   646.614, .615, AND .70 - TEMPORARY MARKINGS
   630.10, .15 - UNIFORMED TRAFFIC OFFICERS AND FLAGGERS

3. FOUR (4) PORTABLE CHANGEABLE MESSAGE SIGNS WILL BE PROVIDED FOR USE ALONG THE NORTHBOUND AND SOUTHBOUND LANES AND ON - RAMP OF INTERSTATE 89. THE PLACEMENT OF THESE MESSAGE SIGNS AS WELL AS THEIR MESSAGES WILL BE AS APPROVED BY THE RESIDENT ENGINEER. THIS QUANTITY IS PAID FOR AS PART OF ITEM 641.15 - PORTABLE CHANGEABLE MESSAGE SIGN.

CONSTRUCTION APPROACH SIGNING

PROJECT NAME: MONTPELIER-WATERBURY
PROJECT NUMBER: IM 089-2(34)

FILE NAME: /pave/03a026/p01a026.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM NAME: p03a026cas.1

PLOT DATE: 11-APR-2005 10:19
DRAWN BY:
CHECKED BY:
SHEET 23 OF 23