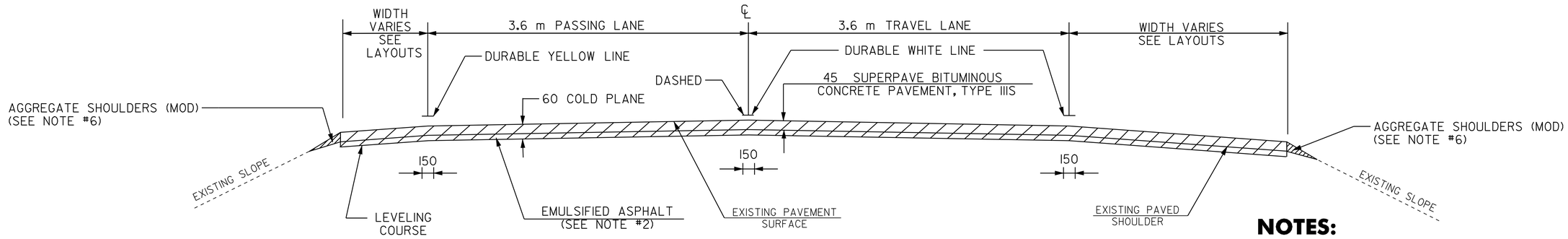


MAINLINE TYPICAL SECTION

STA 19+177 TO STA 21+537
STA 21+600 TO STA 28+600
STA 28+815 TO STA 29+671
STA 29+753 TO STA 31+623
STA 31+737 TO STA 34+232
STA 34+326 TO STA 41+208
STA 41+260 TO STA 46+008
STA 46+066 TO STA 48+280

PROJECT PAVING LIMITS

TOWN	BEGIN STATION	END STATION	LANE TYPICAL (m)	WEARING DEPTH (mm)	BINDER DEPTH (mm)	LEVELING DEPTH (mm)	TOTAL LEVELING (t)	NOTES
INTERSTATE-91								
BRATTLEBORO	19+177	20+522	1.2-3.6-3.6-3.0	45		15	552	COLD PLANE 60, LEVEL & OVERLAY
DUMMERSTON	20+522	28+651	1.2-3.6-3.6-3.0	45		15	3336	COLD PLANE 60, LEVEL & OVERLAY
	28+651	28+714	VARIES SEE LAYOUT	45		15	27	COLD PLANE 60, LEVEL & OVERLAY
	28+714	28+755	1.2-3.6-3.6-3.0	45		15	17	COLD PLANE 60, LEVEL & OVERLAY
	28+755	28+815	VARIES SEE LAYOUT	45		15	35	COLD PLANE 60, LEVEL & OVERLAY
	28+815	29+200	1.2-3.6-3.6-3.0	45		15	158	COLD PLANE 60, LEVEL & OVERLAY
PUTNEY	29+200	29+671	1.2-3.6-3.6-3.0	45		15	193	COLD PLANE 60, LEVEL & OVERLAY
	29+671	29+753	1.0-3.6-3.6-1.0	30			0	COLD PLANE 30, OVERLAY, BRIDGE #14-N
	29+753	31+623	1.2-3.6-3.6-3.0	45		15	767	COLD PLANE 60, LEVEL & OVERLAY
	31+623	31+737	1.0-3.6-3.6-1.0	30			0	COLD PLANE 30, OVERLAY, BRIDGE #15-N
	31+737	32+643	1.2-3.6-3.6-3.0	45		15	372	COLD PLANE 60, LEVEL & OVERLAY
	32+643	32+821	VARIES SEE LAYOUT	45		15	104	COLD PLANE 60, LEVEL & OVERLAY
	32+821	33+011	1.2-3.6-3.6-3.0	45		15	78	COLD PLANE 60, LEVEL & OVERLAY
	33+011	33+390	VARIES SEE LAYOUT	45		15	259	COLD PLANE 60, LEVEL & OVERLAY
	33+390	34+232	1.2-3.6-3.6-3.0	45		15	346	COLD PLANE 60, LEVEL & OVERLAY
	34+232	34+326	1.0-3.6-3.6-1.0	30			0	COLD PLANE 30, OVERLAY, BRIDGE #16-N
	34+326	37+112	1.2-3.6-3.6-3.0	45		15	1143	COLD PLANE 60, LEVEL & OVERLAY
	37+112	37+304	VARIES SEE LAYOUT	45		15	116	COLD PLANE 60, LEVEL & OVERLAY
	37+304	37+437	1.2-3.6-3.6-3.0	45		15	55	COLD PLANE 60, LEVEL & OVERLAY
	37+437	37+770	VARIES SEE LAYOUT	45		15	200	COLD PLANE 60, LEVEL & OVERLAY
	37+770	37+909	1.2-3.6-3.6-3.0	45		15	57	COLD PLANE 60, LEVEL & OVERLAY
WESTMINSTER	37+909	41+208	1.2-3.6-3.6-3.0	45		15	1354	COLD PLANE 60, LEVEL & OVERLAY
	41+208	41+260	2.7-3.6-3.6-3.0	30			0	COLD PLANE 30, OVERLAY, BRIDGE #18-N
	41+260	46+008	1.2-3.6-3.6-3.0	45		15	1949	COLD PLANE 60, LEVEL & OVERLAY
	46+008	46+066	1.0-3.6-3.6-1.0	30			0	COLD PLANE 30, OVERLAY, BRIDGE #20-N
	46+066	46+475	1.2-3.6-3.6-3.0	45		15	168	COLD PLANE 60, LEVEL & OVERLAY
	46+475	46+812	VARIES SEE LAYOUT	45		15	204	COLD PLANE 60, LEVEL & OVERLAY
	46+812	48+280	1.2-3.6-3.6-3.0	45		15	602	COLD PLANE 60, LEVEL & OVERLAY
RAMPS	EXIT 4 OFF		VARIES	45		15	61	COLD PLANE 60, LEVEL & OVERLAY
	EXIT 4 ON		VARIES	45		15	33	COLD PLANE 60, LEVEL & OVERLAY
	PARKING AREA		VARIES	45		15	74	LEVEL & OVERLAY
	REST AREA		VARIES	45		15	67	LEVEL & OVERLAY
	EXIT 5 OFF		VARIES	45		15	68	COLD PLANE 60, LEVEL & OVERLAY
	EXIT 5 ON		VARIES	45		15	105	COLD PLANE 60, LEVEL & OVERLAY

NOT TO SCALE

NOTES:

1. THE PAVEMENT WEARING COURSE SHALL BE TYPE IIIS, THE LEVELING COURSE SHALL BE TYPE IVS, ITEM 490.30, AS SHOWN ON THE TYPICALS, UNLESS DIRECTED BY THE RESIDENT ENGINEER. ALL LIQUID ASPHALT USED IN SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL BE PG 64-28.
2. EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, ON COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.12 L/m2 OR AS DIRECTED BY THE RESIDENT ENGINEER.
3. SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = 5 mm +/- (TOTAL THICKNESS EXCLUDING LEVEL COURSE).
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 75 mm DEPTH OF AGGREGATE SHOULDER (MOD.) MATERIAL UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 20 CUBIC METERS OF EARTH BORROW AND 5 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.
8. COMPACTION, GRADING, AND CLEAN UP OF ITEM 301.35, SUBBASE OF CRUSHED GRAVEL, ITEM 402.12, AGGREGATE SHOULDER MATERIAL(MOD.), AND ITEM 651.35, TOPSOIL, IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE OF EACH ITEM.

CONSERVATION SEED MIX

RURAL AREA - SEED MIXTURE

% WT.	kg/ha	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 560 kg/ha. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA)

AGRICULTURAL LIMESTONE:
TO BE APPLIED AT THE RATE OF 4500 kg/ha OR AS DIRECTED BY THE RESIDENT ENGINEER.

HAY MULCH:
TO BE APPLIED ON EARTH SLOPES AT THE RATE OF 4500 kg/ha 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.

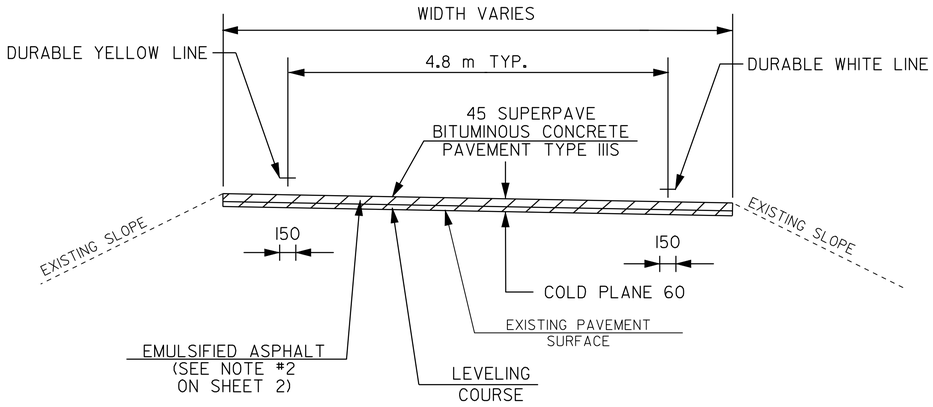
NOTE: ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

PROJECT TYPICAL SHEET 1

PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008ty01.i

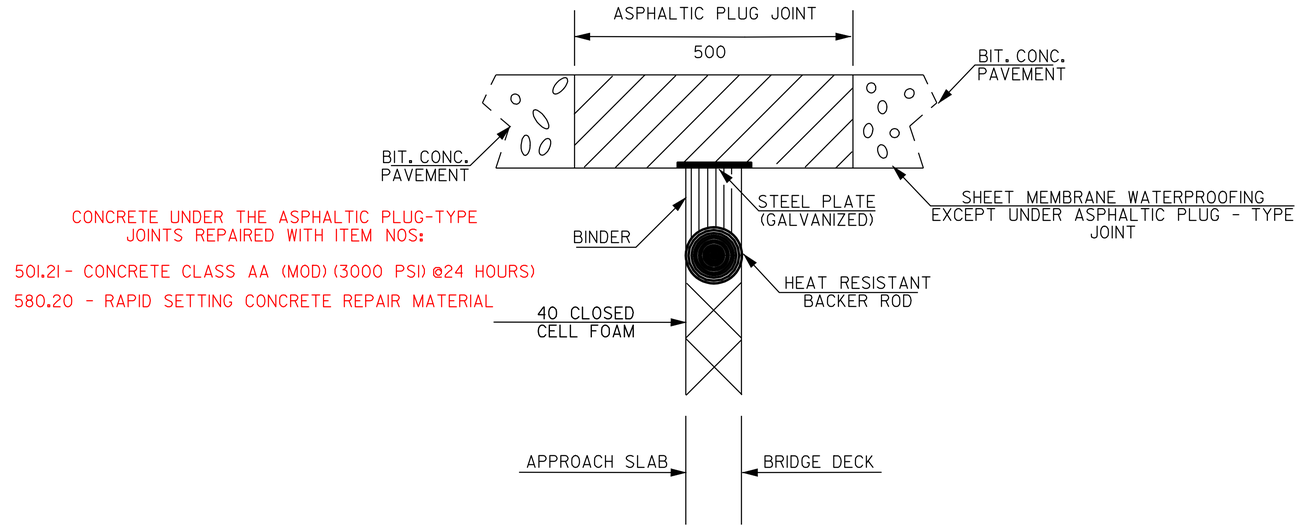
PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS
SHEET 2 OF 24



RAMP PAVEMENT TYPICAL

LOCATION

EXIT 4 OFF & ON RAMPS - SEE SHEETS 12 & 13 FOR DETAILS
EXIT 5 OFF & ON RAMPS - SEE SHEETS 14 & 15 FOR DETAILS



CONCRETE UNDER THE ASPHALTIC PLUG-TYPE JOINTS REPAIRED WITH ITEM NOS:

501.21 - CONCRETE CLASS AA (MOD) (3000 PSI) @24 HOURS)

580.20 - RAPID SETTING CONCRETE REPAIR MATERIAL

ASPHALTIC PLUG-TYPE JOINT DETAIL

LOCATION

TOWN	BRIDGE	EXISTING CONDITION AS PER BRIDGE INVENTORY	TREATMENT	LENGTHS
PUTNEY	BR. # 14N 3 SPAN, SIMPLE, ROLLED BEAM BRIDGE	2''-3'' +/- OF EXISTING PAVEMENT WITH MEMBRANE ON BRIDGE	3 PLUG JOINTS REQUIRED SOUTH ABUTMENT AND 2 PIERS	4 @ 11.4 m
PUTNEY	BR. # 15N 5 SPAN, SIMPLE, ROLLED BEAM BRIDGE	2-1/2'' +/- OF EXISTING PAVEMENT WITH NO MEMBRANE ON BRIDGE	5 PLUG JOINTS REQUIRED NORTH ABUTMENT AND 4 PIERS	6 @ 11.4 m
PUTNEY	BR. # 16N 4 SPAN, SIMPLE, ROLLED BEAM BRIDGE	2'' +/- OF EXISTING PAVEMENT WITH MEMBRANE ON BRIDGE	4 PLUG JOINTS REQUIRED SOUTH ABUTMENT AND 3 PIERS	5 @ 11.4 m
WESTMINSTER	BR. # 18N 3 SPAN, SIMPLE, ROLLED BEAM BRIDGE	3'' +/- OF EXISTING PAVEMENT WITH NO MEMBRANE ON BRIDGE	3 PLUG JOINTS REQUIRED SOUTH ABUTMENT AND 2 PIERS	4 @ 11.4 m
WESTMINSTER	BR. # 20N 3 SPAN, SIMPLE, ROLLED BEAM BRIDGE	3'' +/- OF EXISTING PAVEMENT WITH NO MEMBRANE ON BRIDGE	3 PLUG JOINTS REQUIRED NORTH ABUTMENT AND 2 PIERS	4 @ 11.4 m

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

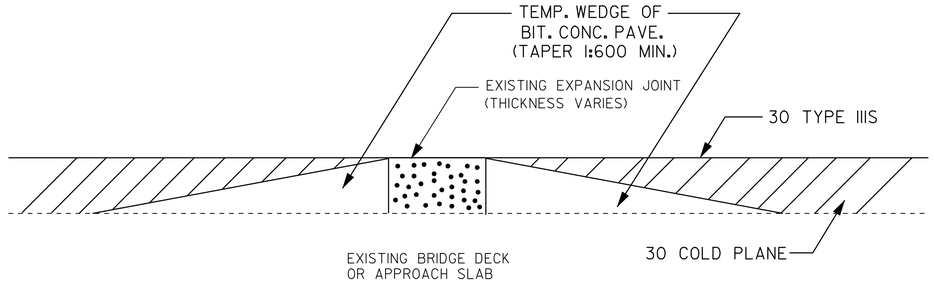
NOTE: ALL DIMENSIONS IN MILLIMETERS EXCEPT AS INDICATED

NOT TO SCALE

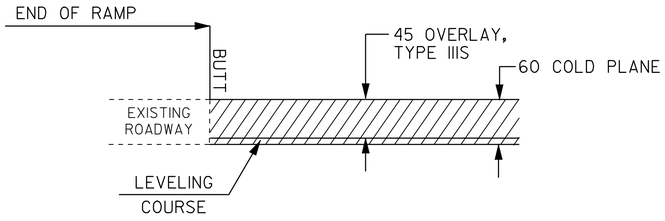
PROJECT TYPICAL SHEET 2

PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008ty02.i
PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS
SHEET 3 OF 24



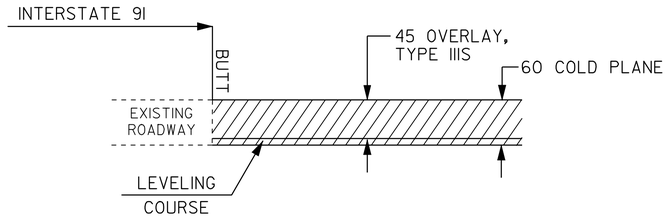
DETAIL OF EXPANSION JOINT ON BRIDGE



RAMP APPROACH AREA DETAIL

LOCATION

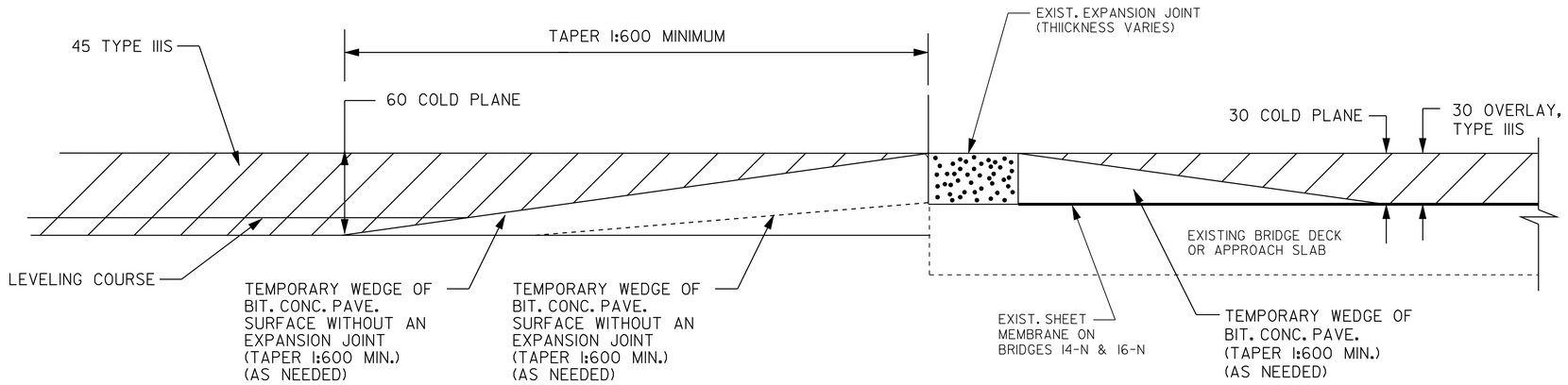
EXIT 4 - END OF ON & OFF RAMPS (@ PAVEMENT MATCH)
EXIT 5 - END OF ON & OFF RAMPS (@ PAVEMENT MATCH)



MAINLINE APPROACH AREA DETAIL

LOCATION

BEGINNING OF PROJECT - STA 19+176.80 (MM 11.916)
END OF PROJECT - STA 48+280.32 (MM 30.000)



BRIDGE APPROACH DETAIL

BR # 14-N	STA 29+671	(MM 18.437)	STA 29+753	(MM 18.488)
BR # 15-N	STA 31+623	(MM 19.650)	STA 31+737	(MM 19.721)
BR # 16-N	STA 34+232	(MM 21.271)	STA 34+326	(MM 21.329)
BR # 18-N	STA 41+208	(MM 25.605)	STA 41+260	(MM 25.638)
BR # 20-N	STA 45+008	(MM 27.967)	STA 46+066	(MM 28.624)

NOT TO SCALE

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

PROJECT TYPICAL SHEET 3

PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008ty03.i
PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS
SHEET 4 OF 24

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

Metric

SUMMARY OF ESTIMATED QUANTITIES

EMPLOYEE TRAINEESHIP	BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
		1125	1125	m3	COMMON EXCAVATION	203.15	15
		275	275	m3	EXCAVATION OF SURFACES AND PAVEMENTS	203.28	2
		285	285	m3	EARTH BORROW	203.30	EST
		230	230	m3	SAND BORROW	203.31	EST
		925	925	m2	FINE GRADING - SUBGRADE	203.40	10
		16 440	16 440	m	SHOULDER BERM REMOVAL	203.99	166
		1	1	m3	TRENCH EXCAVATION OF EARTH (N.A.B.I.)	204.20	EST
		350 610	350 610	m2	COLD PLANING - BIT. PAVEMENT	210.10	3479
		53 090	53 090	m	MILLED RUMBLE STRIPS	213.10	526
		1005	1005	† (m3)	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	EST
		8300	8300	†	AGGREGATE SHOULDERS (MOD)	402.12	EST
		84 480	84 480	kg	EMULSIFIED ASPHALT	404.65	840
		1	1	LU	PRICE ADJUSTMENT ASPHALT CEMENT (N.A.B.I.)	406.50	0
		51 180	51 180	†	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 64-28)	490.30	511
	270		270	m	BRIDGE EXPANSION JOINT	516.10	17.8
		2	2	EA	CHANGING ELEV. OF DI'S, CB'S OR MH'S	604.40	EST
		59	59	EA	REHABING DI,CB OR MH CLASS I	604.412	EST
		100	100	HR	POWER GRADER RENTAL	608.15	EST
		30	30	HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST
		440	440	HR	POWER BROOM RENTAL, TYPE II	608.31	EST
		30	30	HR	TRUCK RENTAL	608.37	EST
		30	30	HR	LOADER RENTAL, TYPE I	608.40	EST
		370	370	†	BITUMINOUS CONCRETE CURB, TYPE B	616.31	4
		1	1	†	BITUMINOUS CONCRETE GUTTERS AND TRAFFIC ISLANDS	616.47	0
	24		24	m	SNOW FENCE	620.70	
		463	463	m	STEEL BEAM GUARDRAIL	621.20	17
		10	10	m	HEAVY DUTY STEEL BEAM GUARDRAIL	621.21	0
		74	74	EA	MANUFACTURED TERMINAL SECTION (FLARED)	621.505	0
		1	1	EA	MANUFACTURED TERMINAL SECTION (TANGENT)	621.505	0
		1	1	EA	ANCHOR FOR STEEL BEAM RAIL	621.60	0
		860	860	EA	REPLACE GUARDRAIL POST ASSEMBLY	621.76	EST
		430	430	EA	REPLACE GUARDRAIL BEAM UNIT	621.77	EST
		1300	1300	m	REMOVL & DISP. OF GUARDRAIL	621.80	44.6
		400	400	m	TEMPORARY TRAFFIC BARRIER	621.90	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COLD PLANING BIT. PAVEMENT
15 333	m2	BRATTLEBORO
99 255	m2	DUMMERSTON
93 293	m2	PUTNEY
131 869	m2	WESTMINSTER
7381	m2	RAMPS
347 131	m2	SUBTOTAL
3479	m2	ROUNDING
350 610	m2	TOTAL
		AGGREGATE SHOULDERS (MOD)
371	†	BRATTLEBORO
2395	†	DUMMERSTON
2404	†	PUTNEY
2862	†	WESTMINSTER
140	†	RAMPS
70	†	GUARDRAIL TERMINAL
8242	†	SUBTOTAL
58	†	ROUNDING
8300	†	TOTAL
		SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 64-28)
36 694	†	INTERSTATE-91, TYPE IIIS, WEARING COURSE
1224	†	RAMPS AND REST AREAS, TYPE IIIS, WEARING COURSE
252	†	INTERSTATE-91, TYPE IIS BASE COURSE (@ EXIT 5)
12 500	†	INTERSTATE-91, TYPE IVS, LEVELING COURSE
50 669	†	SUBTOTAL
511	†	ROUNDING
51 180	†	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT : BRATTLEBORO - WESTMINSTER

PROJECT NO. : IM 091-1(41)

DESIGN FILE NAME: /pave/01a008/pa008.dgn
IPARM FILE NAME: pa008qs01.i
PLOT DATE: 06-APR-2005
SURVEYED BY: CLD ENGINEERS INC
SURVEY DATE: 10/00
SQUAD LEADER: WRH
DRAWN BY: NLL
SHEET: 5 OF 24

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

VAOT Metric

SUMMARY OF ESTIMATED QUANTITIES

				EMPLOYEE TRAINEE SHIP	BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
						1765	1765	HR	UNIFORMED TRAFFIC OFFICERS	630.10	19
						2645	2645	HR	FLAGGERS	630.15	26
						1	1	LS	FIELD OFFICE - ENGINEERS	631.10	-
						1	1	LS	TESTING EQUIPMENT - BITUMINOUS	631.17	-
						1	1	LU	FIELD OFFICE - TELEPHONE (N.A.B.I.)	631.25	-
				1560			1560	HR	EMPLOYEE TRAINEESHIP	634.10	0
						1	1	LS	MOBILIZATION	635.10	-
						1	1	LS	TRAFFIC CONTROL	641.10	-
						4	4	EA	PORTABLE CHANGEABLE MESSAGE SIGNS	641.15	-
						135	135	m	DURABLE 100 mm WHITE LINE	646.40	2
						190	190	m	DURABLE 100 mm WHITE LINE (MOD. 1)	646.40	
						135	135	m	DURABLE 100 mm YELLOW LINE	646.41	5
						190	190	m	DURABLE 100 mm YELLOW LINE (MOD. 1)	646.41	
						10150	10150	m	DURABLE 150 mm WHITE LINE	646.414	22.3
						18200	18200	m	DURABLE 150 mm WHITE LINE (MOD. 1)	646.414	41.75
						405	405	m	DURABLE 150 mm WHITE LINE (MOD. 2)	646.414	2
						8850	8850	m	DURABLE 150 mm WHITE LINE (MOD. 3)	646.414	
						210	210	m	DURABLE 150 mm WHITE LINE (MOD. 4)	646.414	
						8300	8300	m	DURABLE 150 mm YELLOW LINE	646.415	224
						15000	15000	m	DURABLE 150 mm YELLOW LINE (MOD. 1)	646.415	161
						7250	7250	m	DURABLE 150 mm YELLOW LINE (MOD. 2)	646.415	
						400	400	m	DURABLE 300 mm WHITE LINE	646.44	17
						450	450	m	DURABLE 300 mm WHITE LINE (MOD. 1)	646.44	39
						15	15	m	DURABLE 600 mm STOP BAR	646.46	3.4
						5	5	m	DURABLE 600 mm STOP BAR (MOD. 1)	646.46	.2
						19	19	EA	DURABLE LETTER OR SYMBOL	646.50	0
						5	5	EA	DURABLE LETTER OR SYMBOL (MOD. 1)	646.50	
						395	395	m	TEMPORARY 100 mm WHITE LINE	646.60	2
						650	650	m	TEMPORARY 100 mm YELLOW LINE	646.61	5
						76000	76000	m	TEMPORARY 150 mm WHITE LINE	646.614	513.1
						295	295	m	TEMPORARY 150 mm WHITE LINE (TYPE II TAPE)	646.614	13
						60500	60500	m	TEMPORARY 150 mm YELLOW LINE	646.615	270
						1600	1600	m	TEMPORARY 300 mm WHITE LINE	646.64	12
						40	40	m	TEMPORARY 600 mm STOP BAR	646.66	5
						64	64	EA	TEMPORARY LETTERS OR SYMBOLS	646.70	0
						9000	9000	EA	LINE STRIPING TARGETS	646.76	74
						40	40	m2	BLACK PAVEMENT MARKING MASKING TAPE	646.86	EST.
						15	15	kg	SEED	651.15	EST
						115	115	kg	FERTILIZER	651.18	EST

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT : BRATTLEBORO - WESTMINSTER

PROJECT NO.: IM 091-1(39)

DESIGN FILE NAME: _/pave/01a008/pa008.dgn
IPARM FILE NAME: pa008qs02.i
PLOT DATE: 06-APR-2005
SURVEYED BY: CLD ENGINEERS INC
SURVEY DATE: 10/00
SQUAD LEADER: WRH
DRAWN BY: NLL
SHEET: 6 OF 24

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 3

VAOT Metric

SUMMARY OF ESTIMATED QUANTITIES

					BRIDGE	ROADWAY	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NUMBER	RND
						1	1	†	AGRICULTURAL LIMESTONE	651.20	EST
						1	1	†	HAY MULCH	651.25	EST
						20	20	m3	TOPSOIL	651.35	EST
						13	13	m2	TRAFFIC SIGNS, TYPE A	675.20	0.84
									BEGIN OPTION ITEMS		
						56	56	m	FLANGED CHANNEL SIGN POSTS	675.301	0.8
						56	56	m	SQUARE TUBE STEEL POST AND ANCHORS	675.341	0.8
									END OPTION ITEMS		
						23	23	EA	REMOVING SIGNS	675.50	0
						4	4	EA	TEMPORARY DETECTOR (MOD.)	678.42	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT : BRATTLEBORO - WESTMINSTER

PROJECT NO. : IM 091-1(41)

DESIGN FILE NAME: /pave/01a008/pa008.dgn

PARM FILE NAME: pa008qs03.1 PLOT DATE: 06-APR-2005

SURVEYED BY: CLD ENGINEERS INC SURVEY DATE: 6/99

SQUAD LEADER: WRH DRAWN BY: NLL

SHEET: 7 OF 24

LOCATION			CURBED SIDEWALKS					DROP INLETS			MTS (TRAILING END TERMINAL) CO #2 10/08/2003 GUARDRAIL									MISC.			REMARKS
			203.15	203.16	301.35	616.21	618.10	604.40	604.412	604.415	~~621.52~~ ~~616.35~~	621.20	621.20	621.21	621.505	621.60	621.76	621.77	621.80	621.81	601.0005	617.10	617.12	
STATION	STATION	POS.	COMM. EXCAV.	SOLID ROCK EXCAV.	SUBBASE OF DENSE CR. STONE	VERTICAL GRANITE CURB	PORT. CEM. CONC. SDWK. 125 mm	CHANGE ELEV. D.I.	REHAB. D.I. CLASS I	REHAB. D.I. CLASS II	~~TIMBER CURB~~	STEEL BEAM G.R.	S.B. G.R. (2.4 m POST) (MOD)	H.D. BEAM G.R.	M.T.S.	ANCHOR FOR G.R.	REPLACE G.R. POST ASSEMBLY	REPLACE G.R. BEAM UNIT	REMOVE & DISP. G.R.	REMOVE & DISP. G.P.	300 mm CSP 1.63mm (68 mm x 12 mm)	RELOCATE MAILBOX, SINGLE SUPPORT	RELOCATE MAILBOX, MULTIPLE SUPPORT	
INTERSTATE ROUTE 91			m3	m3	m3	m	m2	EA	EA	EA	EA ~~m~~	m	m	m	EA	EA	EA	m	m	EA	m	EA	EA	FOR LOCATIONS SEE LAYOUT SHEETS. ESTIMATED QUANTITY TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.
19+177	48+280							2	59		37	~~463~~	323.9		~~75~~ 38	+ 37	~~860~~ 3	~~430~~ 1356	~~1300~~ 1012.6					
31+609	31+616.6	RT												~~10~~ 0										APPROACH RAIL SCHEDULE I, STA 31+609 TO 31+616.6, CONNECT TO EXISTING BRIDGE RAIL
45+556	45+841	RT	1340.2 ~~1110~~		723.6 ~~994~~																			FOR INTERSTATE WIDENING - DECELERATION LANE @ EXIT 5
WESTMINSTER																								
SHEET 8 TOTALS								59				463		10	75	1	860	430	1300					

ITEM DETAIL SHEET 1

PROJECT NAME: BRATTLEBORO - WESTMINSTER

PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa0081d01.1

PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PIS
SHEET 8 OF 24

VAOT Metric

REHABING DI, CB, OR MH

STA 21+~~299~~ RT DI468.6
STA 21+~~354~~ RT DI516.9
STA 21+~~455~~ RT DI613.4
STA 21+~~537~~ RT DI710.0
STA 21+~~612~~ RT DI790.5
STA 22+~~352~~ RT DI530.8
STA 22+~~694~~ RT DI868.7
STA 22+~~755~~ RT DI933.1
STA 24+~~207~~ RT DI381.5
STA 24+~~282~~ RT DI462.0
STA 24+~~402~~ RT DI574.6
STA 24+~~502~~ RT DI687.3
STA 24+~~609~~ RT DI783.8
STA 24+~~715~~ RT DI880.4
STA ~~24+905~~ RT DI25+089.6
STA ~~24+973~~ RT DI25+154.0
STA 25+~~102~~ RT DI266.6
STA 26+~~252~~ RT DI425.4
STA 26+~~463~~ RT DI634.6
STA 26+~~589~~ RT DI703.3
STA 26+~~642~~ RT DI827.7
STA ~~26+863~~ RT DI27+197.8
STA ~~26+951~~ RT DI27+278.3
STA 27+~~250~~ RT DI423.2
STA 27+~~369~~ RT DI551.9
STA 27+~~461~~ RT DI684.5
STA 27+~~688~~ RT DI873.8
STA 27+~~780~~ RT DI954.2
STA ~~27+948~~ RT DI28+131.3
STA 28+~~069~~ RT DI260.0
STA 28+~~190~~ RT DI388.8
STA 28+~~327~~ RT DI517.5
STA 28+~~461~~ RT DI662.3
STA 28+~~716~~ RT DI919.8

STEEL BEAM GUARDRAIL

STA 19+554 TO 19+557.8 RT.
STA 19+671.2 TO 19+675 RT.
STA 20+135 TO 20+138.8 RT.
STA 20+438.2 TO 20+442 RT.
STA 20+610 TO 20+613.8 RT.
STA 20+957.2 TO 20+961 RT.
STA 21+361 TO 21+364.8 RT.
STA 21+831.2 TO 21+835 RT.
STA 22+334 TO 22+337.8 RT.
STA 22+544.2 TO 22+548 RT.
STA 22+749 TO 22+752.8 RT.
STA 22+942.2 TO 22+946 RT.
STA 23+134 TO 23+137.8 RT.
STA 23+420.2 TO 23+424 RT.
STA 23+825 TO 23+828.8 RT.
STA 24+057.2 TO 24+061 RT.
STA 24+323 TO 24+326.8 RT.

STA 25+764.2 TO 25+768 RT.
STA 26+092 TO 26+095.8 RT.
STA 27+220.2 TO 27+224 RT.
STA 27+352 TO 27+355.8 RT.
STA 28+973.2 TO 28+977 RT.
STA 29+194 TO 29+197.8 RT.
STA 29+252.2 TO 29+256 RT.
STA 29+224 TO 29+227.8 LT.
STA 29+266.2 TO 29+270 RT.
STA 29+786.2 TO 29+790 RT.

*MANUFACTURED TERMINAL END SECTION (TRAILING END TERMINAL)

STA. 19+690.00 - 19+693.81 RT.
STA. 20+499.60 - 20+453.41 RT.
STA. 20+968.59 - 20+972.40 RT.
STA. 21+837.22 - 21+841.09 RT.
STA. 22+539.80 - 22+543.61 RT.
STA. 22+940.03 - 22+943.84 RT.
STA. 23+412.21 - 23+416.02 RT.
STA. 24+046.01 - 24+049.82 RT.
STA. 25+775.59 - 25+779.40 RT.
STA. 27+231.59 - 27+235.40 RT.
STA. 28+984.59 - 28+988.40 RT.
STA. 29+243.56 - 29+247.37 RT.
STA. 29+797.59 - 29+801.40 RT.

STEEL BEAM GUARDRAIL

STA. 19+554.00 - 19+565.43 RT.
STA. 19+671.20 - 19+678.82 RT.
STA. 20+442.00 - 20+449.62 RT.
STA. 20+610.00 - 20+617.62 RT.
STA. 20+961.00 - 20+968.62 RT.
STA. 21+364.84 - 21+368.65 RT.
STA. 21+829.66 - 21+837.28 RT.
STA. 22+532.18 - 22+539.80 RT.
STA. 22+932.41 - 22+940.03 RT.
STA. 23+404.59 - 23+412.21 RT.
STA. 23+825.03 - 23+832.65 RT.
STA. 24+038.39 - 24+046.01 RT.
STA. 25+767.97 - 25+775.59 RT.
STA. 27+223.97 - 27+231.59 RT.
STA. 28+976.97 - 28+984.59 RT.
STA. 29+235.94 - 29+243.56 RT.
STA. 29+789.97 - 29+797.59 RT.

*NOTE: ENDS OF GUARD RAIL RUNS CHANGED TO ITEM 621.52 MTS (TRAILING END SECTION) TYP. PER CHANGE ORDER #2, 10/08/03

REMOVAL & DISP. OF GUARDRAIL

STA 19+542.6 TO 19+557.8 RT.
STA 19+671.2 TO 19+686.4 RT.
STA 20+123.6 TO 20+138.8 RT.
STA 20+438.2 TO 20+453.4 RT.
STA 20+598.6 TO 20+613.8 RT.
STA 20+957.2 TO 20+972.4 RT.
STA 21+349.6 TO 21+364.8 RT.
STA 21+831.2 TO 21+846.4 RT.
STA 22+322.6 TO 22+337.8 RT.
STA 22+544.2 TO 22+559.4 RT.
STA 22+737.6 TO 22+752.8 RT.
STA 22+942.2 TO 22+957.4 RT.
STA 23+122.6 TO 23+137.8 RT.
STA 23+420.2 TO 23+435.4 RT.
STA 23+813.6 TO 23+828.8 RT.
STA 24+057.2 TO 24+072.4 RT.
STA 24+311.6 TO 24+326.8 RT.

STA 25+764.2 TO 25+779.4 RT.
STA 26+080.6 TO 26+095.8 RT.
STA 27+220.2 TO 27+235.4 RT.
STA 27+340.6 TO 27+355.8 RT.
STA 28+973.2 TO 28+988.4 RT.
STA 29+182.6 TO 29+197.8 RT.
STA 29+252.2 TO 29+267.4 RT.
STA 29+212.6 TO 29+227.8 LT.
STA 29+266.2 TO 29+281.4 RT.
STA 29+763.6 TO 29+778.8 RT.

MANUFACTURED TERMINAL SECTIONS

STA 19+542.6 TO 19+554 RT.
STA 19+675 TO 19+686.4 RT.
STA 20+442 TO 20+453.4 RT.
STA 20+598.6 TO 20+610 RT.
STA 20+961 TO 20+972.4 RT.
STA 21+349.6 TO 21+361 RT.
STA 21+835 TO 21+846.4 RT.
STA 22+322.6 TO 22+334 RT.
STA 22+548 TO 22+559.4 RT.
STA 22+737.6 TO 22+749 RT.
STA 22+946 TO 22+957.4 RT.
STA 23+122.6 TO 23+134 RT.
STA 23+424 TO 23+435.4 RT.
STA 23+813.6 TO 23+825 RT.
STA 24+061 TO 24+072.4 RT.
STA 24+311.6 TO 24+323 RT.

STA 25+768 TO 25+779.4 RT.
STA 26+080.6 TO 26+092 RT.
STA 27+224 TO 27+235.4 RT.
STA 27+340.6 TO 27+352 RT.
STA 28+977 TO 28+988.4 RT.
STA 29+182.6 TO 29+194 RT.
STA 29+256 TO 29+267.4 RT.
STA 29+212.6 TO 29+224 LT.
STA 29+270 TO 29+281.4 RT.
STA 29+790 TO 29+801.4 RT.

DURABLE 150MM WHITE LINE

STA. 19+177 - 26+419 SOLID RT.
STA. 19+177 - 26+419 DASHED CL

DURABLE 150MM WHITE LINE (MOD. III)

STA. 26+419 - 30+000 SOLID RT

DURABLE 150MM WHITE LINE (MOD. II)

STA. 26+419 - 27+224 DASHED CL

DURABLE 150MM WHITE LINE (MOD. III)

STA. 27+224 - 30+000 DASHED CL

DURABLE 150MM YELLOW LINE

STA. 19+177 - 26+419 SOLID LT.

DURABLE 150MM YELLOW LINE (MOD. II)

STA. 26+419 - 30+000 SOLID LT

*NOTE: DURABLE 150 MM WHITE & YELLOW LINE = THERMOPLASTIC
DURABLE 150 MM WHITE & YELLOW LINE (MOD. 1) = EPOPLEX (NOT RECESSED)
DURABLE 150 MM WHITE LINE (MOD. II) = EPOPLEX (DASHED CL RECESSED) & 3M LPM 1000
DURABLE 150 MM WHITE LINE (MOD. III) = 3M LPM 1000 (NOT RECESSED)
DURABLE 150 MM WHITE LINE (MOD. IV) = 3M 380 TAPE (ROLLED IN PAVEMENT)
DURABLE 150 MM YELLOW LINE (MOD. II) = 3M LPM 1000 (NOT RECESSED)

*ALL DURABLE CHANGES PER C.O. #3, 10/08/03

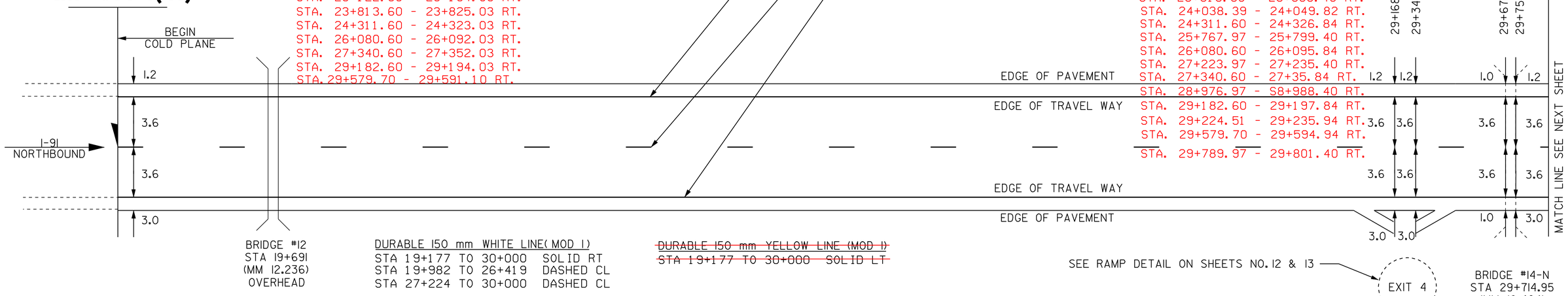
REMOVAL & DISP. OF GUARDRAIL

STA. 19+542.60 - 19+561.70 RT.
STA. 19+675.00 - 19+686.40 RT.
STA. 20+442.00 - 20+453.40 RT.
STA. 20+598.60 - 20+617.65 RT.
STA. 20+961.00 - 20+972.43 RT.
STA. 21+349.60 - 21+364.84 RT.
STA. 21+829.66 - 21+841.09 RT.
STA. 22+322.60 - 22+341.06 RT.
STA. 22+532.18 - 22+543.61 RT.
STA. 22+737.60 - 22+752.84 RT.
STA. 22+924.79 - 22+943.84 RT.
STA. 23+122.60 - 23+137.84 RT.
STA. 23+404.59 - 23+416.02 RT.
STA. 23+813.60 - 23+836.46 RT.
STA. 24+038.39 - 24+049.82 RT.
STA. 24+311.60 - 24+326.84 RT.
STA. 25+767.97 - 25+799.40 RT.
STA. 26+080.60 - 26+095.84 RT.
STA. 27+223.97 - 27+235.40 RT.
STA. 27+340.60 - 27+35.84 RT.
STA. 28+976.97 - S8+988.40 RT.
STA. 29+182.60 - 29+197.84 RT.
STA. 29+224.51 - 29+235.94 RT.
STA. 29+579.70 - 29+594.94 RT.
STA. 29+789.97 - 29+801.40 RT.

INTERSTATE ROUTE 91 NB
STA 19+176.80
(MM 11.916)
BEGIN PROJECT
IM 091-1(41)

MANUFACTURED TERMINAL SECTION (FLARED)

STA. 19+542.60 - 19+554.00 RT.
STA. 20+598.60 - 20+610.00 RT.
STA. 21+353.41 - 21+364.84 RT.
STA. 22+322.60 - 22+334.06 RT.
STA. 22+736.00 - 22+749.03 RT.
STA. 23+122.60 - 23+134.03 RT.
STA. 23+813.60 - 23+825.03 RT.
STA. 24+311.60 - 24+323.03 RT.
STA. 26+080.60 - 26+092.03 RT.
STA. 27+340.60 - 27+352.03 RT.
STA. 29+182.60 - 29+194.03 RT.
STA. 29+579.70 - 29+591.10 RT.



DURABLE 150 mm WHITE LINE (MOD 1)

STA 19+177 TO 30+000 SOLID RT
STA 19+982 TO 26+419 DASHED CL
STA 27+224 TO 30+000 DASHED CL

~~DURABLE 150 mm YELLOW LINE (MOD 1)~~
~~STA 19+177 TO 30+000 SOLID LT~~

~~DURABLE 150 mm WHITE LINE (MOD 2)~~
~~STA 19+177 TO 19+982 DASHED CL~~
~~STA 26+419 TO 27+224 DASHED CL~~

TEMPORARY 150 mm YELLOW LINE
STA 19+177 TO 30+000 SOLID LT

TEMPORARY 150 mm WHITE LINE (MOD)

STA 19+177 TO 30+000 SOLID RT
STA 19+177 TO 30+000 DASHED CL

SEE RAMP DETAIL ON SHEETS NO. 12 & 13

EXIT 4

BRIDGE #14-N
STA 29+714.95
(MM 18.464)
COLD PLANE AND PAVE

SNOW FENCE

STA 19+691 BR #12 OVERHEAD (24 M)
2-RAIL BOX BEAM

PAVEMENT CORES - ⊗

	STA		TOTAL DEPTH (MM)	PCC
1	STA 20+600	RT	108	NO
2	STA 20+600	RT	330	NO
3	STA 22+530	RT	114	NO
4	STA 22+530	RT	305	NO
5	STA 25+750	RT	318	NO
6	STA 25+750	RT	90	NO
7	STA 28+164	RT	108	NO
8	STA 28+164	RT	318	NO
9	STA 29+853	RT	330	NO

NOT TO SCALE

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

PAVING PROJECT LAYOUT #1

PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008101.i
PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS
SHEET 9 OF 25

BITUMINOUS CONCRETE
GUTTERS AND TRAFFIC ISLANDS
STA 34+163 RT

REHABING DI, CB, OR MH
STA 32+~~184~~ RT DI 186.8
STA 32+~~279~~ RT DI 283.4
STA 34+~~450~~ RT DI 456.0
STA 37+~~470~~ RT DI 304.5
STA. 37+304.5 RT. DI (REST AREA)
STA. 37+965.0 RT. DI

REMOVAL & DISP. OF GUARDRAIL
~~STA 30+168.6 TO 30+183.8 RT~~
~~STA 30+356.2 TO 30+371.4 RT~~
~~STA 30+613.6 TO 30+628.8 RT~~
~~STA 30+731.2 TO 30+746.4 RT~~
~~STA 31+479.6 TO 31+494.8 RT~~
~~STA 31+507.6 TO 31+522.8 LT~~
~~STA 31+626.2 TO 31+641.4 LT~~
~~STA 31+713.6 TO 31+728.8 LT.~~
~~STA 31+740.2 TO 31+755.4 LT.~~
~~STA 31+713.6 TO 31+728.8 RT.~~
~~STA 33+130.2 TO 33+145.4 RT.~~
~~STA 32+868.6 TO 32+883.8 RT.~~
~~STA 32+987.2 TO 33+002.4 RT.~~
~~STA 33+372.6 TO 33+387.8 RT.~~
~~STA 33+638.2 TO 33+653.4 RT.~~
~~STA 34+102.6 TO 34+117.8 RT.~~
~~STA 34+236.2 TO 34+251.4 RT.~~
~~STA 34+338.6 TO 34+553.8 RT.~~
~~STA 34+559.2 TO 34+574.4 RT.~~
~~STA 35+333.6 TO 35+348.8 RT.~~
~~STA 35+802.2 TO 35+817.4 RT.~~
~~STA 36+359.6 TO 36+374.8 RT.~~
~~STA 36+657.2 TO 36+672.4 RT.~~
~~STA 36+812.6 TO 36+827.8 RT.~~
~~STA 37+087.2 TO 37+102.4 RT.~~
~~STA 37+428.6 TO 37+443.8 RT.~~
~~STA 37+541.2 TO 37+556.4 RT.~~
~~STA 39+272.6 TO 39+287.8 RT.~~

REMOVAL & DISP. OF GUARDRAIL
STA. 30+164.79 - 30+180.03 RT.
STA. 30+359.97 - 30+371.40 RT.
STA. 30+613.60 - 30+628.24 RT.
STA. 30+716.47 - 30+727.90 RT.
STA. 31+479.60 - 31+498.65 RT.
STA. 31+507.60 - 31+522.84 RT.
STA. 31+743.97 - 31+755.40 RT.
STA. 33+133.97 - 31+145.40 RT.
STA. 32+868.60 - 32+883.84 RT.
STA. 32+967.66 - 32+982.90 RT.
STA. 33+372.60 - 33+387.84 RT.
STA. 33+641.97 - 33+653.40 RT.
STA. 34+102.60 - 34+121.65 RT.
STA. 34+557.17 - 34+568.60 RT.
STA. 35+333.60 - 35+348.44 RT.
STA. 35+806.07 - 35+817.40 RT.
STA. 36+359.60 - 36+374.84 RT.
STA. 36+660.97 - 36+672.40 RT.

MANUFACTURED TERMINAL SECTION FLARED
*STA 30+168.6 TO 30+180 RT. 03 ~~STA 30+338.6 TO 30+350 RT.~~
~~STA 30+360 TO 30+371.4 RT~~ *STA 35+333.6 TO 35+345 RT. 03
*STA 30+613.6 TO 30+625 RT. 03 ~~STA 35+806 TO 35+817.4 RT.~~
~~STA 30+735 TO 30+746.4 RT~~ *STA 36+359.6 TO 36+371 RT. 03
*STA 31+479.6 TO 31+491 RT. 03 ~~STA 36+661 TO 36+672.4 RT.~~
*STA 31+507.6 TO 31+519 LT. 03 STA 36+812.6 TO 36+824 RT. 03
~~STA 31+630 TO 31+641.4 LT~~ ~~STA 37+091 TO 37+102.4 RT.~~
~~STA 31+744 TO 31+755.4 LT.~~ *STA 37+428.6 TO 37+440 RT. 03
~~STA 33+134 TO 33+145.4 RT.~~ ~~STA 37+545 TO 37+556.4 RT.~~
*STA 32+868.6 TO 32+880 RT. 03 STA 39+272.6 TO 39+284 RT. 03
~~STA 32+991 TO 33+002.4 RT.~~ STA. 34+557.17 - 34+564.79 RT.
*STA 33+372.6 TO 33+384 RT. 03
~~STA 33+642 TO 33+653.4 RT.~~
*STA 34+102.6 TO 34+114 RT. 03

REMOVAL & DISP. OF GUARDRAIL CONT.
STA. 36+812+60 - 36+827.84 RT.
STA. 37+091.00 - 37+102.43 RT.
STA. 37+428.60 - 37+443.84 RT.
STA. 37+544.97 - 37+556.40 RT.
STA. 39+272.60 - 39+287.84 RT.

* MTS (TRAILING END TERMINAL
STA. 30+367.59 - 30+371.40 RT.
STA. 30+724.09 - 30+727.90 RT.
STA. 31+751.59 - 31+755.40 RT.
STA. 32+979.09 - 32+982.80 RT.
STA. 33+141.59 - 33+145.40 RT.
STA. 33+649.59 - 33+653.40 RT.
STA. 34+564.79 - 34+568.60 RT.
STA. 35+013.69 - 35+017.50 RT.
STA. 36+668.59 - 36+672.40 RT.
STA. 37+098.62 - 37+102.43 RT.
STA. 37+552.59 - 37+556.40 RT.

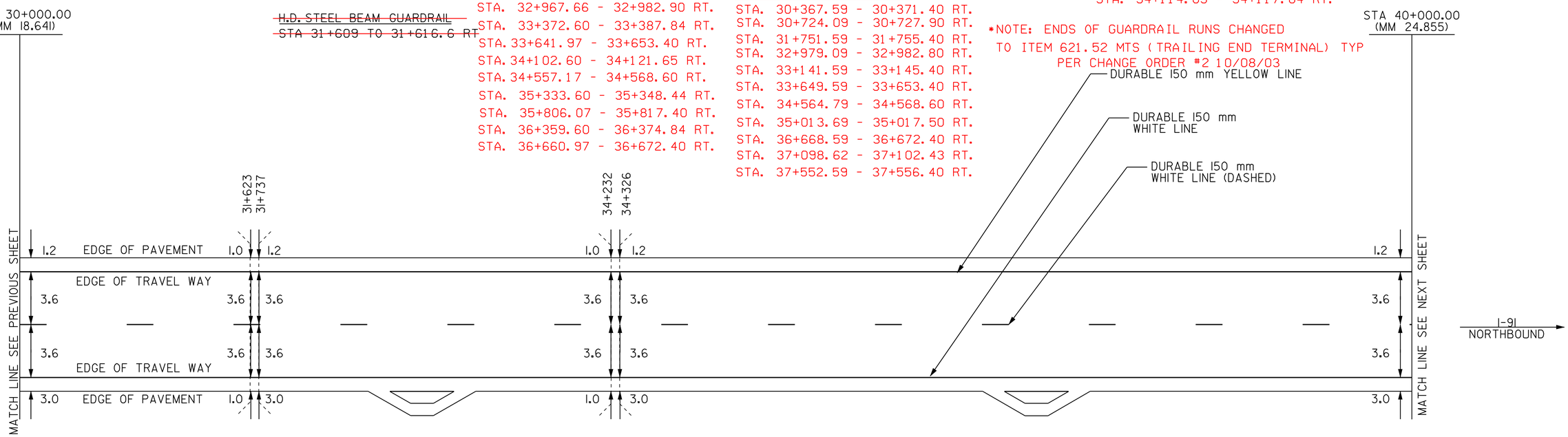
STEEL BEAM GUARDRAIL
STA 30+180 TO 30+183.8 RT
STA 30+356.2 TO 30+360 RT
STA 30+625 TO 30+628.8 RT
STA 30+731.2 TO 30+735 RT
STA 31+491 TO 31+494.8 RT
STA 31+519 TO 31+522.8 LT
STA 31+740.2 TO 31+744 LT.
STA 33+130.2 TO 33+134 RT.
STA 32+880 TO 32+883.8 RT.
STA 32+987.2 TO 32+991 RT.
STA 33+384 TO 33+387.8 RT.
STA 33+638.2 TO 33+642 RT.
STA 34+114 TO 34+117.8 RT.
STA 34+350 TO 34+353.8 RT.
STA 35+345 TO 35+348.8 RT.
STA 35+802.2 TO 35+806 RT.
STA 36+371 TO 36+374.8 RT.
STA 36+657.2 TO 36+661 RT.
STA 36+824 TO 36+827.8 RT.
STA 37+087.2 TO 37+091 RT.
STA 37+440 TO 37+443.8 RT.
STA 37+541.2 TO 37+545 RT.
STA 39+284 TO 39+287.8 RT.

* STEEL BEAM GUARDRAIL
STA. 30+359.97 - 30+367.59 RT.
STA. 30+716.47 - 30+724.09 RT.
STA. 31+491.03 - 31+494.84 RT.
STA. 31+743.97 - 31+751.59 RT.
STA. 32+971.47 - 32+979.09 RT.
STA. 33+133.97 - 33+141.59 RT.
STA. 33+641.97 - 33+649.59 RT.
STA. 34+114.03 - 34+117.84 RT.

STEEL BEAM GUARDRAIL CONT.
STA. 34+557.17 - 34+564.79 RT.
STA. 35+806.07 - 35+813.69 RT.
STA. 36+660.97 - 36+668.59 RT.
STA. 37+091.00 - 37+098.62 RT.
STA. 37+544.97 - 37+556.40 RT.

~~H.D. STEEL BEAM GUARDRAIL~~
~~STA 31+609 TO 31+616.6 RT~~

*NOTE: ENDS OF GUARDRAIL RUNS CHANGED TO ITEM 621.52 MTS (TRAILING END TERMINAL) TYP PER CHANGE ORDER #2 10/08/03



PAVEMENT CORES - ⊗

	STA		TOTAL DEPTH (MM)	PCC
10	STA 30+578	RT	330	NO
11	STA 30+578	RT	102	NO
12	STA 30+594	RT	222	NO
13	STA 31+382	RT	305	NO
14	STA 32+187	RT	318	NO
15	STA 33+796	RT	102	NO
16	STA 33+796	RT	330	NO
17	STA 38+302	RT	318	NO
18	STA 38+302	RT	102	NO

~~DURABLE 150 mm WHITE LINE (MOD 1)~~
~~STA 30+000 TO 33+661 SOLID RT~~
~~STA 30+000 TO 33+661 DASHED CL~~

~~DURABLE 150 mm YELLOW LINE (MOD 1)~~
~~STA 30+000 TO 33+661 SOLID LT~~

~~DURABLE 150 mm WHITE LINE (MOD 3)~~
~~STA 33+661 TO 40+000 SOLID RT~~
~~STA 33+661 TO 35+406 DASHED CL~~
~~STA 36+210 TO 40+000 DASHED CL~~

~~DURABLE 150 mm WHITE LINE (MOD 4)~~
~~STA 35+406 TO 36+210 DASHED CL~~

~~DURABLE 150 mm YELLOW LINE (MOD 2)~~
~~STA 33+661 TO 40+000 SOLID LT~~

10/08/03
PER CO #1
TEMPORARY 150 mm WHITE LINE (MOD)
STA 30+000 TO 40+000 SOLID RT
STA 30+000 TO 40+000 DASHED CL

TEMPORARY 150 mm YELLOW LINE
STA 30+000 TO 40+000 SOLID LT

DURABLE 150MM WHITE LINE (MOD. III)
STA. 30+000 - 33+661 SOLID RT.
STA. 30+000 - 33+661 DASHED CL

DURABLE 150MM WHITE LINE (MOD. I)
STA. 33+661 - 40+000 SOLID RT

DURABLE 150MM WHITE LINE (MOD. II)
STA. 33+661 - 34+466 DASHED CL

DURABLE 150MM WHITE LINE (MOD. I)
STA. 34+466 - 40+000 DASHED CL

DURABLE 150MM YELLOW LINE (MOD. II)
STA. 30+000 - 33+661 SOLID LT.

DURABLE 150MM YELLOW LINE (MOD. I)
STA. 33+661 - 40+000 SOLID LT

*ALL DURABLE CHANGES PER CO #3, 10/08/03

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

NOT TO SCALE

PAVING PROJECT LAYOUT #2

PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)
FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008102.i
PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS
SHEET 10 OF 24

~~DURABLE 150 mm WHITE LINE~~
~~STA 40+903 TO 48+280 SOLID RT~~
~~STA 40+903 TO 48+280 DASHED CL~~

~~DURABLE 150 mm YELLOW LINE~~
~~STA 40+903 TO 48+280 SOLID LT~~

TEMPORARY 150 mm WHITE LINE
STA 40+000 TO 48+280 SOLID RT
STA 40+000 TO 48+280 DASHED CL
(MOD.) PER CO #1, 10/08/03

TEMPORARY 150 mm YELLOW LINE
STA 40+000 TO 48+280 SOLID LT

DURABLE 150 mm WHITE LINE (MOD 3)
STA 40+000 TO 40+903 SOLID RT
STA 40+000 TO 40+903 DASHED CL

DURABLE 150 mm YELLOW LINE (MOD 2)
STA 40+000 TO 40+903 SOLID LT

* DURABLE 150 mm WHITE LINE (MOD 1)
STA 40+000 TO 48+280 SOLID RT
STA. 40+000 - 41+708 DASHED CL.

DURABLE 150 mm WHITE LINE (MOD IV)
STA. 41+708 - 42+512 DASHED CL.

DURABLE 150 mm WHITE LINE (MOD 1)
STA. 42+512 - 48+280 DASHED CL.

DURABLE 150 mm YELLOW LINE (MOD 1)
STA 40+000 TO 48+280 SOLID LT

*ALL DURABLE CHANGES PER CO #3, 10/08/03

REHABING DI, CB, OR MH
STA 40+~~457~~ RT DI 458.8
STA 40+~~548~~ RT DI 555.4
STA 40+~~730~~ RT DI 716.3
STA 41+~~200~~ RT DI 199.1
STA 41+~~291~~ RT DI 279.6
STA 41+~~367~~ RT DI 360.0
STA 41+~~534~~ RT DI 521.0
STA 41+~~961~~ RT DI 955.5
STA 42+~~107~~ RT DI 100.3
STA 42+~~204~~ RT DI 196.9
STA 44+~~032~~ RT DI 031.5
STA 44+~~100~~ RT DI 095.9
STA 44+~~319~~ RT DI 321.2
STA 44+~~425~~ RT DI 433.9
STA 44+~~588~~ RT DI 594.8
STA 44+~~679~~ RT DI 691.4
STA 44+~~770~~ RT DI 771.8
STA 44+~~846~~ RT DI 852.3
STA 44+~~953~~ RT DI 965.0
~~STA 45+057 RT DI~~
~~STA 45+196 RT DI~~

REMOVAL & DISPOSAL OF GUARDRAIL
~~STA 40+736.2 TO 40+751.4 RT~~
~~STA 40+934.6 TO 40+949.8 RT~~
~~STA 41+168.6 TO 41+183.8 LT~~
~~STA 41+292.2 TO 41+307.4 LT.~~
~~STA 41+608.2 TO 41+623.4 RT.~~
~~STA 41+739.2 TO 41+754.4 RT.~~
~~STA 42+275.2 TO 42+290.4 RT.~~
~~STA 42+725.2 TO 42+740.4 RT.~~
~~STA 43+130.2 TO 43+145.4 RT.~~
~~STA 43+201.2 TO 43+216.4 LT.~~
~~STA 43+698.6 TO 43+713.8 RT.~~
~~STA 43+187.2 TO 43+202.4 RT.~~
~~STA 45+331.2 TO 45+346.4 RT.~~
~~STA 45+942.6 TO 45+957.8 RT.~~
~~STA 46+068.6 TO 46+083.8 RT.~~
~~STA 46+064.2 TO 46+079.4 RT.~~
~~STA 46+545.6 TO 46+560.8 RT.~~
~~STA 47+094.2 TO 47+109.4 RT.~~
~~STA 47+244.6 TO 47+259.8 RT.~~
~~STA 47+413.2 TO 47+428.4 RT.~~
~~STA 47+753.6 TO 47+768.8 RT.~~
~~STA 48+691.2 TO 48+706.4 RT.~~

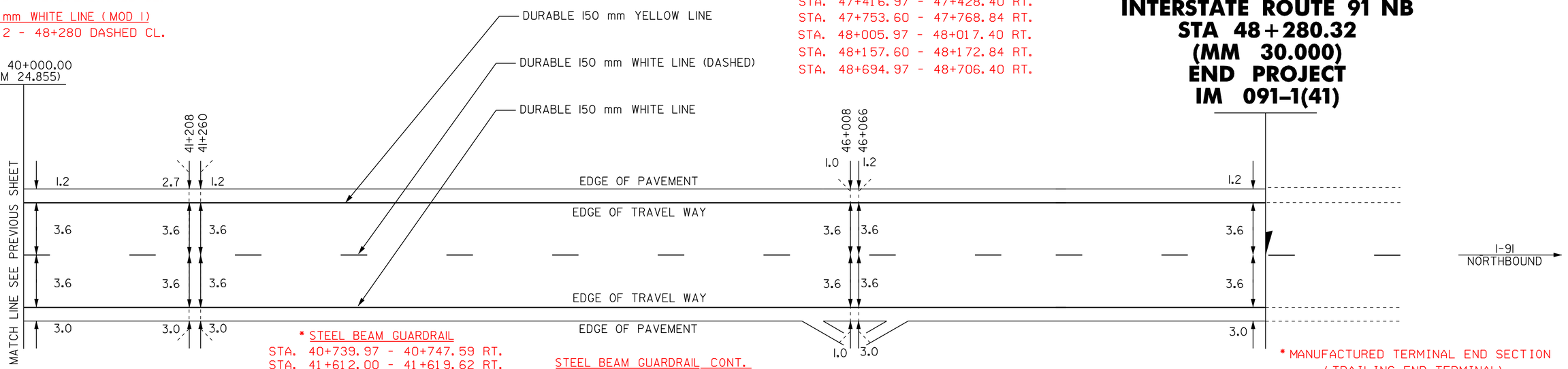
REMOVAL & DISPOSAL OF GUARDRAIL
STA. 40+739.97 - 40+751.40 RT.
STA. 40+934.60 - 40+949.84 RT.
STA. 41+612.00 - 41+623.43 RT.
STA. 41+743.00 - 41+758.24 RT.
STA. 42+279.00 - 42+280.43 RT.
STA. 42+402.60 - 42+417.84 RT.
STA. 42+729.00 - 42+740.43 RT.
STA. 43+136.60 - 43+151.84 RT.
STA. 43+195.00 - 43+206.43 RT.
STA. 43+715.60 - 43+730.84 RT.
STA. 45+335.00 - 45+346.34 RT.
STA. 45+841.00 - 45+856.24 RT.

~~BITUMINOUS CONCRETE~~
~~GUTTERS AND TRAFFIC ISLANDS~~
~~STA 45+323 RT~~
~~STA 45+964 RT~~

REMOVAL & DISPOSAL OF GUARDRAIL CONT.
EXIT 5 OFF RAMP "C" RT.
STA. 45+942.60 - 45+957.84 RT
STA. 73+00 - 73+15.24 LT.
STA. 135+57 - 147+00 LT.
STA. 46+072.40 - 46+083.84 RT
STA. 46+545.60 - 46+560.84 RT.
STA. 47+097.97 - 47+109.40 RT.
STA. 47+244.60 - 47+259.84 RT.
STA. 47+416.97 - 47+428.40 RT.
STA. 47+753.60 - 47+768.84 RT.
STA. 48+005.97 - 48+017.40 RT.
STA. 48+157.60 - 48+172.84 RT.
STA. 48+694.97 - 48+706.40 RT.

MANUFACTURED TERMINAL SECTION (FLARED)
~~STA 40+740 TO 40+751.4 RT~~
STA 40+934.6 TO 40+946 RT. 03
~~STA 41+168.6 TO 41+180 LT~~
~~STA 41+296 TO 41+307.4 LT.~~
~~STA 41+612 TO 41+623.4 RT.~~
~~STA 41+394.6 TO 41+406 RT.~~
STA 41+743 TO 41+754.43RT.
~~STA 42+279 TO 42+290.4 RT.~~
STA 42+402.6 TO 42+414 RT. 03
~~STA 42+729 TO 42+740.4 RT.~~
STA 43+136.6 TO 43+148 RT. 03
~~STA 43+195 TO 43+206.4 RT.~~
STA 43+715.6 TO 43+727 RT. 03
~~STA 45+335 TO 45+346.4 RT.~~
STA 45+942.6 TO 45+954 RT. 03
~~STA 46+068.6 TO 46+080 RT.~~
~~STA 46+545.6 TO 46+557 RT.~~ 03
~~STA 47+098 TO 47+109.4 RT.~~
STA 47+244.6 TO 47+256 RT. 03
~~STA 47+417 TO 47+428.4 RT.~~
STA 47+753.6 TO 47+765 RT. 03
~~STA 48+006 TO 48+017.4 RT.~~
STA 48+157.6 TO 48+169 RT. 60
~~STA 48+695 TO 48+706.4 RT.~~

RAMP "D"
STA. 73+00 - 73+11.43 LT.
STA. 45+841.00 - 45+852.43 RT.



BRIDGE #18-N
STA 41+233.65
(MM 25.621)
COLD PLANE
AND PAVE

BRIDGE # 20-N
STA 46+040.65
(MM 28.608)
COLD PLANE
AND PAVE

* STEEL BEAM GUARDRAIL
STA. 40+739.97 - 40+747.59 RT.
STA. 41+612.00 - 41+619.62 RT.
STA. 42+279.00 - 42+286.62 RT.
STA. 42+729.00 - 42+736.62 RT.
STA. 43+195.00 - 43+202.62 RT.
STA. 45+335.00 - 45+342.62 RT.
TOP OF RAMP "D", EXIT 5 RT.
RAMP "C", 135.57 - 143.19 LT.
STA. 46+072.40 - 46+080.03 RT.
STA. 47+097.97 - 47+105.59 RT.

STEEL BEAM GUARDRAIL CONT.
STA. 47+416.97 - 47+424.59 RT.
STA. 48+005.97 - 48+013.59 RT.
STA. 48+694.97 - 48+702.59 RT.

STEEL BEAM GUARDRAIL
~~STA 40+740 TO 40+743.8 RT~~
~~STA 40+946 TO 40+949.8 RT~~
~~STA 41+202.2 TO 41+206 LT~~
~~STA 41+180 TO 41+183.8 RT~~
~~STA 41+207.2 TO 41+211 LT.~~
~~STA 41+253 TO 41+256.8 RT.~~
~~STA 41+617.2 TO 41+621 LT.~~
~~STA 41+259 TO 41+262.8 LT.~~
~~STA 41+292.2 TO 41+296 LT.~~
~~STA 41+751 TO 41+754.8 RT.~~
~~STA 41+290.2 TO 41+294 RT.~~
~~STA 41+406 TO 41+409.8 RT.~~
~~STA 41+739.2 TO 41+743 RT.~~
~~STA 43+141 TO 43+144.8 RT.~~
~~STA 43+196.2 TO 43+200 RT.~~
~~STA 43+152 TO 43+155.8 LT.~~
~~STA 43+201.2 TO 43+205 LT.~~
~~STA 43+720 TO 43+723.8 RT.~~
~~STA 45+347.2 TO 45+351 RT.~~
~~STA 45+954 TO 45+957.8 RT.~~
~~STA 46+026.2 TO 46+030 RT.~~
~~STA 45+993 TO 45+996.8 LT.~~
~~STA 46+026.2 TO 46+030 LT.~~
~~STA 46+080 TO 46+083.8 LT.~~
~~STA 46+103.2 TO 46+107 LT.~~
~~STA 46+080 TO 46+083.8 RT.~~
~~STA 46+103.2 TO 46+107 RT.~~
~~STA 46+557 TO 46+560.8 RT.~~
~~STA 47+094.2 TO 47+098 RT.~~
~~STA 47+256 TO 47+259.8 RT.~~
~~STA 47+413.2 TO 47+417 RT.~~
~~STA 47+765 TO 47+768.8 RT.~~
~~STA 48+691.2 TO 48+695 RT.~~

*NOTE: ENDS OF GUARD RAIL RUNS CHANGED TO ITEM 621.52 MTS (TRAILING END TERMINAL) TYP. PER CHANGE ORDER #2, 10/08/03

* MANUFACTURED TERMINAL END SECTION (TRAILING END TERMINAL)
STA. 40+747.59 - 40+751.40 RT.
STA. 41+619.62 - 41+623.43 RT.
STA. 42+226.62 - 42+290.43 RT.
STA. 42+736.62 - 42+740.43 RT.
STA. 43+202.62 - 43+206.43 RT.
STA. 45+342.62 - 45+346.43 RT.
END OF RAMP "C", EXIT 5 RT.
RAMP "C", 143+19 - 147+00 LT.
STA. 46+080.03 - 46+083.84 RT.
STA. 47+105.59 - 47+109.40 RT.
STA. 47+424.59 - 47+428.40 RT.
STA. 48+013.59 - 48+017.40 RT.
STA. 48+702.59 - 48+706.40 RT.

PAVEMENT CORES - ⊗

	STA		TOTAL DEPTH (MM)	PCC
19	STA 40+234	RT	305	NO
20	STA 40+234	RT	127	NO
21	STA 43+452	RT	267	NO
22	STA 43+452	RT	127	NO
23	STA 47+315	RT	102	NO
24	STA 47+315	RT	318	NO

INTERSTATE ROUTE 91 NB
STA 48+280.32
(MM 30.000)
END PROJECT
IM 091-1(41)

NOT TO SCALE

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

PAVING PROJECT LAYOUT #3

PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)
FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008103.i
PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PIS
SHEET 11 OF 24

EXIT 4 – RAMP C
NORTHBOUND OFF RAMP

SEE STANDARD E-19IM FOR
RAMP STRIPING DETAILS

REMOVING SIGNS
AS SHOWN - 9

DURABLE 150 mm WHITE LINE (MOD +)III
EXIT 4
NORTHBOUND OFF RAMP 232 SOLID RT
INTERSTATE 91 84 DOTTED RT
INTERSTATE 91 20 DASHED RT

DURABLE 150 mm YELLOW LINE (MOD +)II
EXIT 4
NORTHBOUND OFF RAMP 232 SOLID LT

DURABLE 300 mm WHITE LINE ~~(MOD I)~~
EXIT 4
NORTHBOUND OFF RAMP 32 SOLID LT
INTERSTATE 91 60 SOLID RT

TEMPORARY 150 mm WHITE LINE (MOD.)
EXIT 4 PER CO #1, 10/08/03
NORTHBOUND OFF RAMP 232 SOLID RT
INTERSTATE 91 84 DOTTED RT
INTERSTATE 91 20 DASHED RT

TEMPORARY 150 mm YELLOW LINE
EXIT 4
NORTHBOUND OFF RAMP 232 SOLID LT

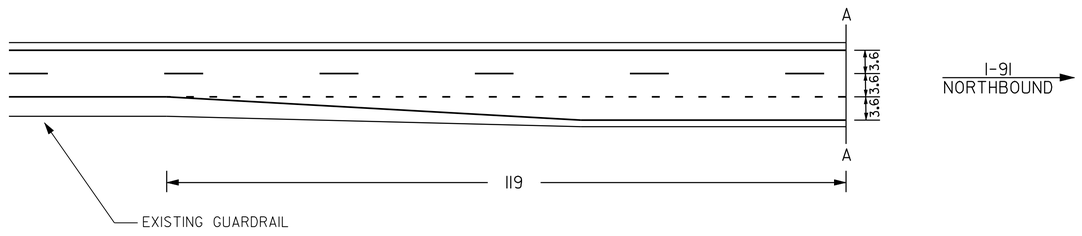
TEMPORARY 300 mm WHITE LINE
EXIT 4
NORTHBOUND OFF RAMP 32 SOLID LT
INTERSTATE 91 60 SOLID RT

DURABLE LETTER OR SYMBOL (MOD I)
EXIT 4
NORTHBOUND OFF RAMP ''STOP''
NORTHBOUND OFF RAMP ''AHEAD''
NORTHBOUND OFF RAMP ''STOP''

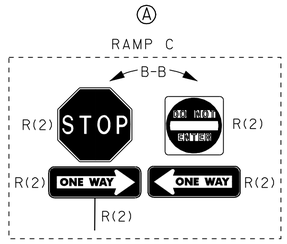
DURABLE 600 mm STOP BAR (MOD I)
EXIT 4
NORTHBOUND OFF RAMP

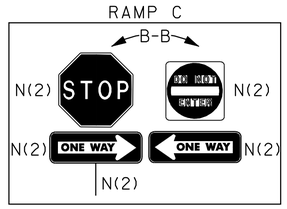
TEMPORARY LETTER OR SYMBOL
EXIT 4
NORTHBOUND OFF RAMP ''STOP''
NORTHBOUND OFF RAMP ''AHEAD''
NORTHBOUND OFF RAMP ''STOP''

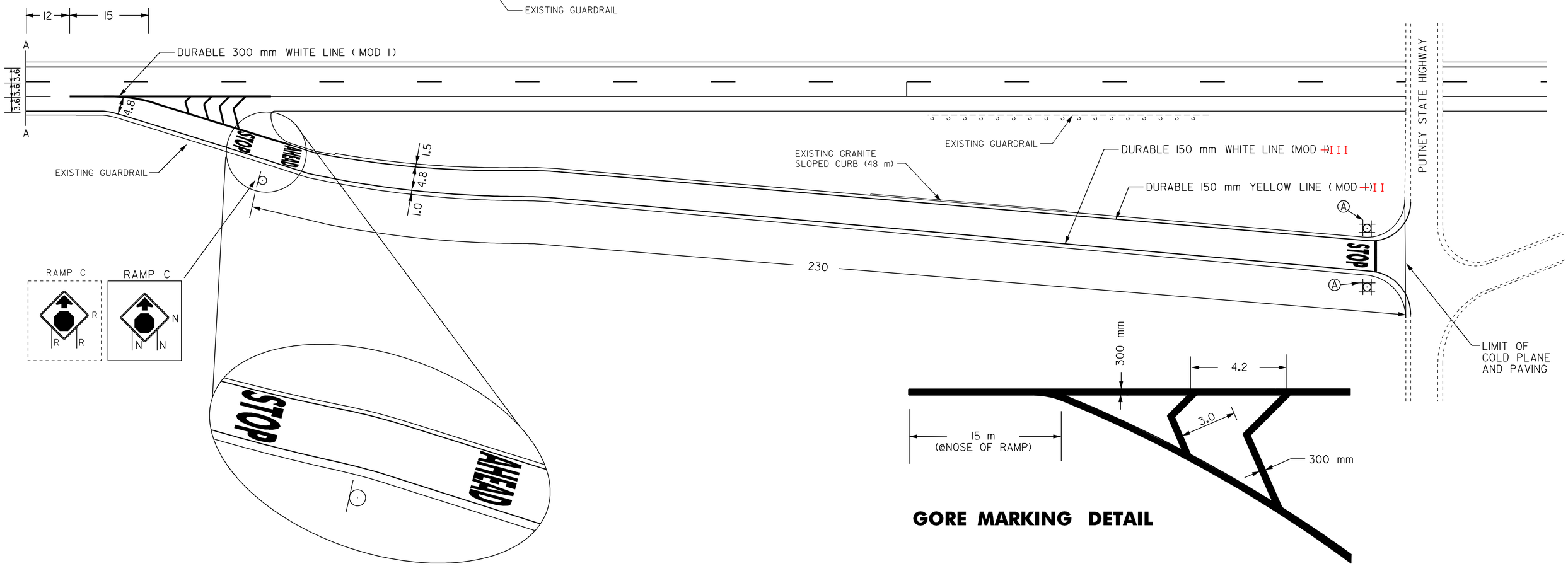
TEMPORARY 600 mm STOP BAR
EXIT 4
NORTHBOUND OFF RAMP



I-91
NORTHBOUND







GORE MARKING DETAIL

NOT TO SCALE

LEGEND

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

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

RAMP DETAIL INTERCHANGE #4 OFF RAMP

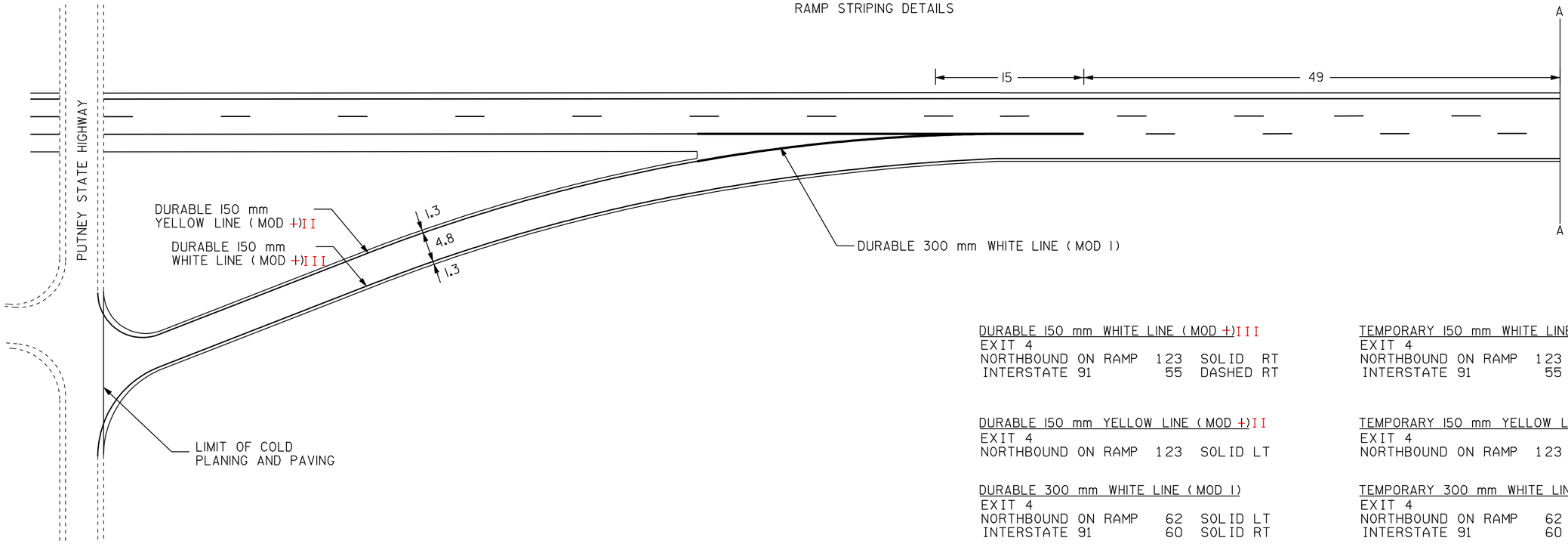
PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008#4off.i

PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS
SHEET 12 OF 24

EXIT 4 – RAMP D
NORTHBOUND ON RAMP

SEE STANDARD E-191M FOR
RAMP STRIPING DETAILS



DURABLE 150 mm WHITE LINE (MOD +)III
EXIT 4
NORTHBOUND ON RAMP 123 SOLID RT
INTERSTATE 91 55 DASHED RT

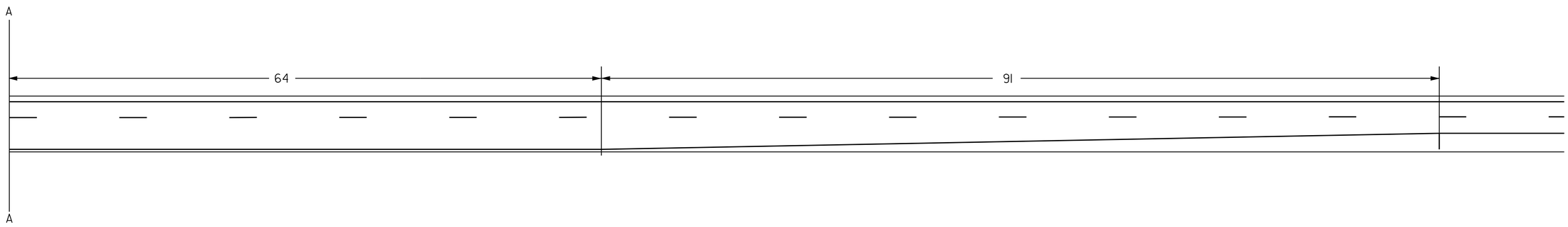
DURABLE 150 mm YELLOW LINE (MOD +)II
EXIT 4
NORTHBOUND ON RAMP 123 SOLID LT

DURABLE 300 mm WHITE LINE (MOD I)
EXIT 4
NORTHBOUND ON RAMP 62 SOLID LT
INTERSTATE 91 60 SOLID RT

TEMPORARY 150 mm WHITE LINE(MOD) PER CO #1, 10/08/03
EXIT 4
NORTHBOUND ON RAMP 123 SOLID RT
INTERSTATE 91 55 DASHED RT

TEMPORARY 150 mm YELLOW LINE
EXIT 4
NORTHBOUND ON RAMP 123 SOLID LT

TEMPORARY 300 mm WHITE LINE
EXIT 4
NORTHBOUND ON RAMP 62 SOLID LT
INTERSTATE 91 60 SOLID RT



NOT TO SCALE

LEGEND

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

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

RAMP DETAIL
INTERCHANGE #4
ON RAMP

PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008#4on.i

PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS
SHEET 13 OF 24

PARKING AREA NORTHBOUND

SEE STANDARD E-191M FOR RAMP STRIPING DETAILS

REMOVING SIGNS
AS SHOWN - 2

DURABLE 150 mm WHITE LINE (MOD +)III

DECELERATION LANE	116	DOTTED RT
DECELERATION LANE	16	DASHED RT
ACCELERATION LANE	92	DASHED RT

10/08/03
TEMPORARY 150 mm WHITE LINE (MOD.) PER CO#1

DECELERATION LANE	116	DOTTED RT
DECELERATION LANE	16	DASHED RT
ACCELERATION LANE	92	DASHED RT

DURABLE 100 mm YELLOW LINE (MOD +)II

PARKING AREA	190	SOLID RT

DURABLE 100 mm WHITE LINE (MOD I)

PARKING AREA	190	SOLID RT

TEMPORARY 100 mm YELLOW LINE

PARKING AREA	190	SOLID RT

TEMPORARY 100 mm WHITE LINE

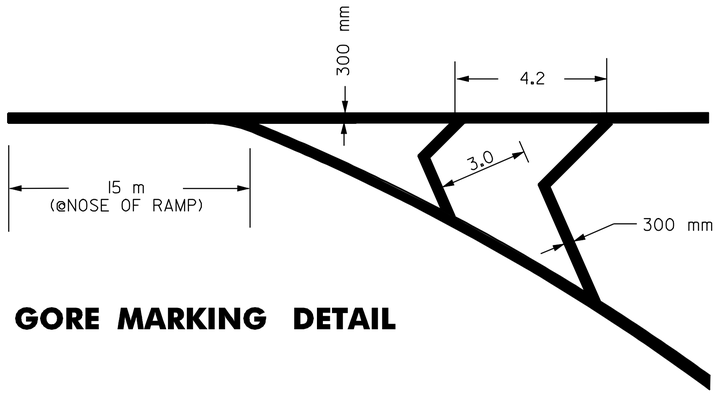
PARKING AREA	190	SOLID RT

DURABLE 300 mm WHITE LINE (MOD I)

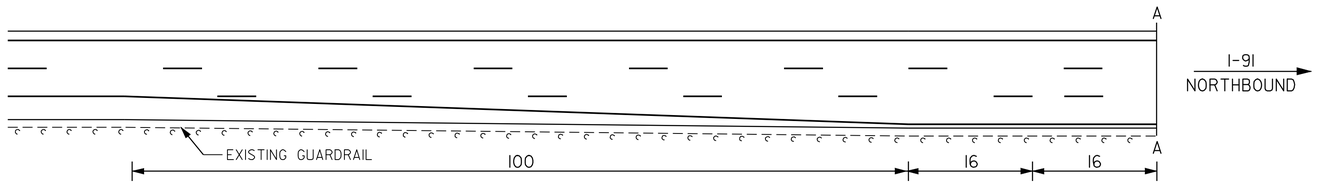
PARKING AREA		
NORTHBOUND OFF RAMP	32	SOLID RT
INTERSTATE 91	45	SOLID RT
NORTHBOUND ON RAMP	39	SOLID RT
INTERSTATE 91	81	SOLID RT

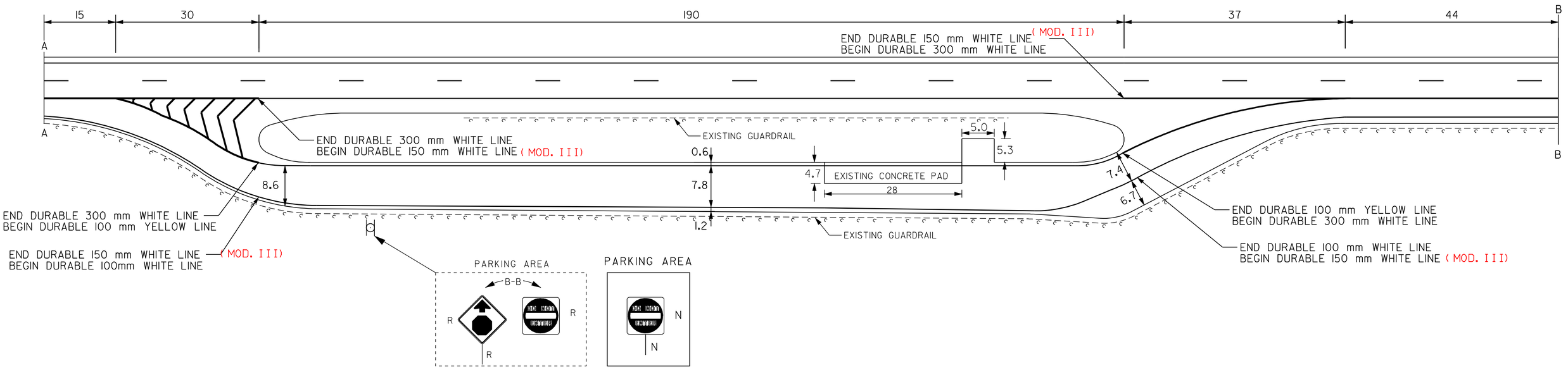
TEMPORARY 300 mm WHITE LINE

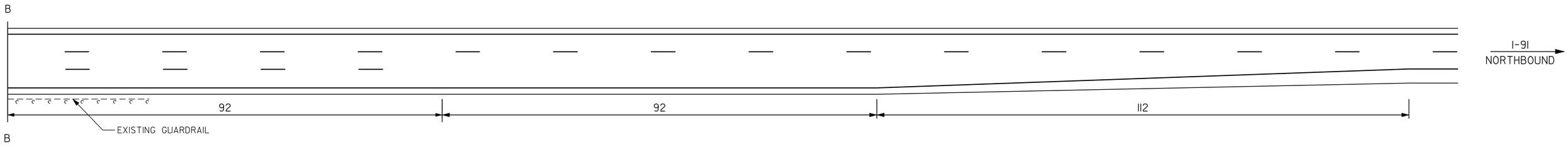
PARKING AREA		
NORTHBOUND OFF RAMP	32	SOLID RT
INTERSTATE 91	45	SOLID RT
NORTHBOUND ON RAMP	39	SOLID RT
INTERSTATE 91	81	SOLID RT



GORE MARKING DETAIL







LEGEND

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

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

NOT TO SCALE

PARKING AREA DETAIL

PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008pa01.i

PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS

REST AREA NORTHBOUND

SEE STANDARD E-191M FOR RAMP STRIPING DETAILS AND STD E-193M FOR REST AREA PARKING DETAILS

REHABING DI, CB, OR MH CLASS I
1 EA

DURABLE 150 mm WHITE LINE (MOD I)

REST AREA	57	SOLID	RT
DECELERATION LANE	113	DOTTED	RT
DECELERATION LANE	48	DASHED	RT
ACCELERATION LANE	78	DASHED	RT

TEMPORARY 150 mm WHITE LINE (MOD.) PER CO #1, 10/08/03

REST AREA	57	SOLID	RT
DECELERATION LANE	113	DOTTED	RT
DECELERATION LANE	48	DASHED	RT
ACCELERATION LANE	78	DASHED	RT

DURABLE 100 mm WHITE LINE
REST AREA
PARKING SPACES
HANDICAP SPACES

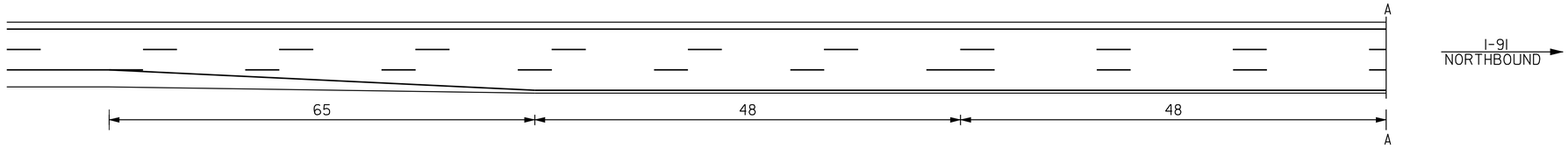
TEMPORARY 100 mm WHITE LINE
REST AREA
PARKING SPACES
HANDICAP SPACES

DURABLE 100 mm YELLOW LINE
REST AREA 135 SOLID RT

TEMPORARY 100 mm YELLOW LINE
REST AREA 135 SOLID RT

DURABLE 300 mm WHITE LINE
REST AREA

NORTHBOUND OFF RAMP	16	SOLID	RT
INTERSTATE 91	32	SOLID	RT
NORTHBOUND ON RAMP	16	SOLID	RT
INTERSTATE 91	76	SOLID	RT

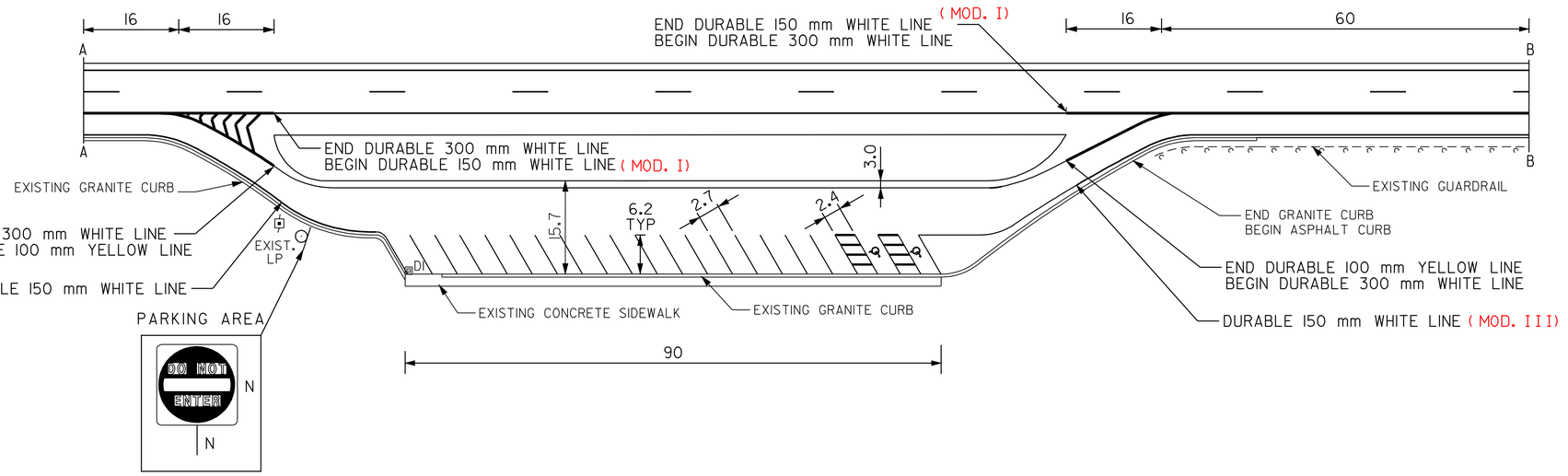


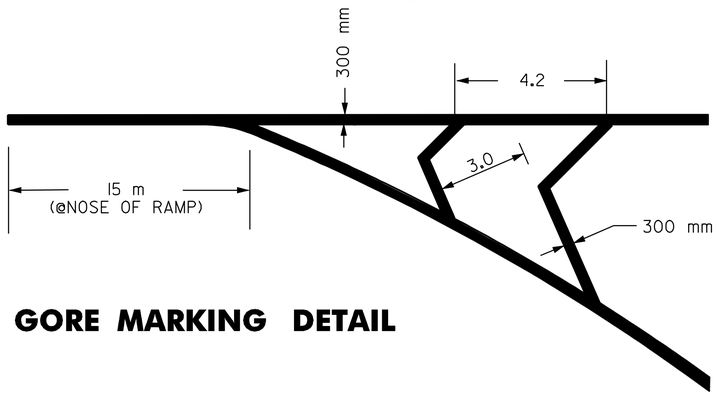
DURABLE LETTER OR SYMBOL
REST AREA
HANDICAP SYMBOL (2)

TEMPORARY 300 mm WHITE LINE
REST AREA

NORTHBOUND OFF RAMP	16	SOLID	RT
INTERSTATE 91	32	SOLID	RT
NORTHBOUND ON RAMP	16	SOLID	RT
INTERSTATE 91	76	SOLID	RT

TEMPORARY LETTER OR SYMBOL
REST AREA
HANDICAP SYMBOL (2)





GORE MARKING DETAIL

NOT TO SCALE

LEGEND

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

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

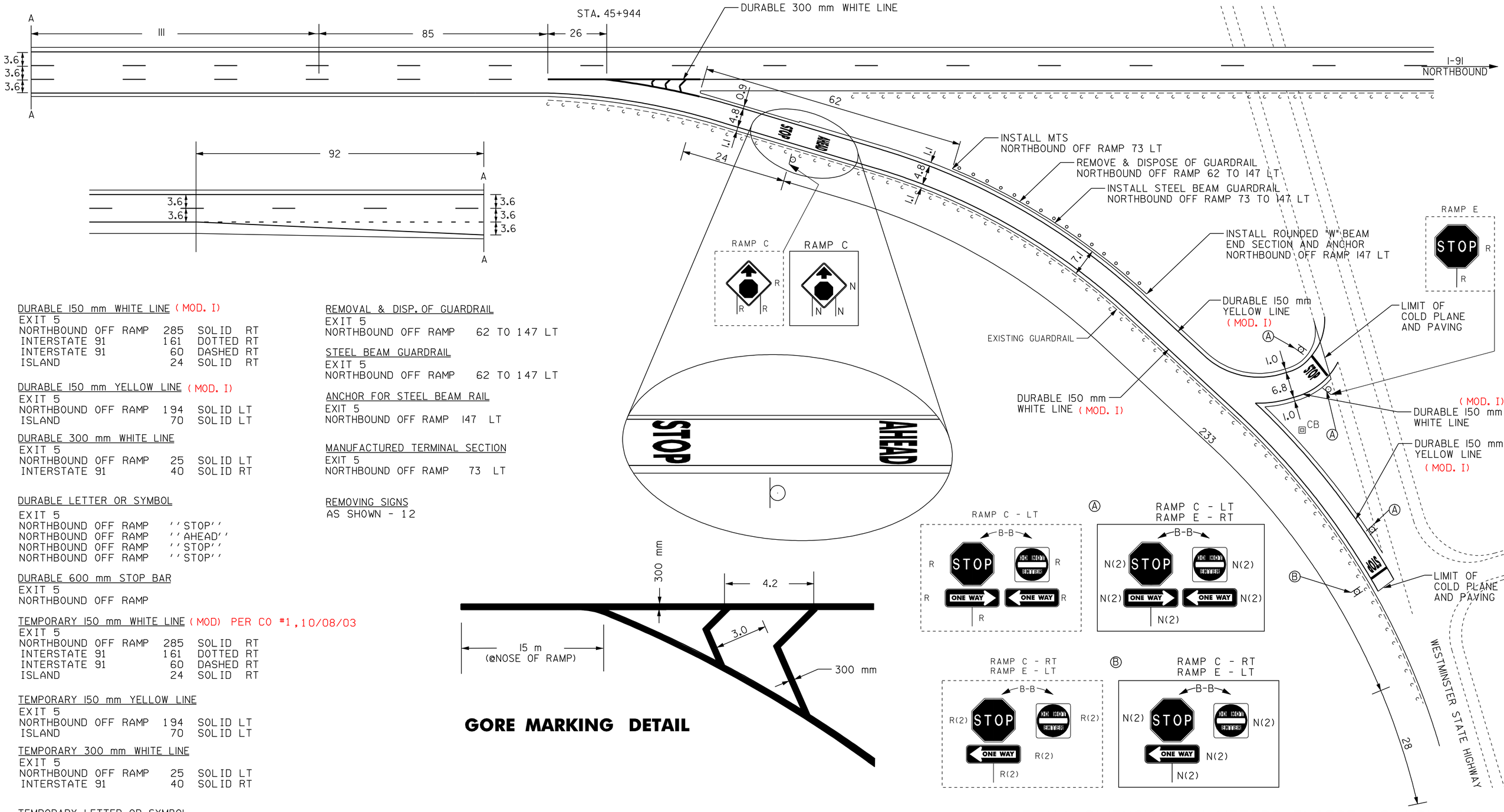
REST AREA DETAIL

PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008ra01.i
PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS
SHEET 15 OF 24

EXIT 5 – RAMP C & E
NORTHBOUND OFF RAMP

SEE STANDARD E-191M FOR
RAMP STRIPING DETAILS



<u>DURABLE 150 mm WHITE LINE</u> (MOD. I)

EXIT 5			
NORTHBOUND OFF RAMP	285	SOLID	RT
INTERSTATE 91	161	DOTTED	RT
INTERSTATE 91	60	DASHED	RT
ISLAND	24	SOLID	RT

<u>DURABLE 150 mm YELLOW LINE</u> (MOD. I)

EXIT 5			
NORTHBOUND OFF RAMP	194	SOLID	LT
ISLAND	70	SOLID	LT

<u>DURABLE 300 mm WHITE LINE</u>

EXIT 5			
NORTHBOUND OFF RAMP	25	SOLID	LT
INTERSTATE 91	40	SOLID	RT

<u>DURABLE LETTER OR SYMBOL</u>

EXIT 5	
NORTHBOUND OFF RAMP	''STOP''
NORTHBOUND OFF RAMP	''AHEAD''
NORTHBOUND OFF RAMP	''STOP''
NORTHBOUND OFF RAMP	''STOP''

<u>DURABLE 600 mm STOP BAR</u>
EXIT 5
NORTHBOUND OFF RAMP

<u>TEMPORARY 150 mm WHITE LINE</u> (MOD) PER CO #1, 10/08/03

EXIT 5			
NORTHBOUND OFF RAMP	285	SOLID	RT
INTERSTATE 91	161	DOTTED	RT
INTERSTATE 91	60	DASHED	RT
ISLAND	24	SOLID	RT

<u>TEMPORARY 150 mm YELLOW LINE</u>

EXIT 5			
NORTHBOUND OFF RAMP	194	SOLID	LT
ISLAND	70	SOLID	LT

<u>TEMPORARY 300 mm WHITE LINE</u>

EXIT 5			
NORTHBOUND OFF RAMP	25	SOLID	LT
INTERSTATE 91	40	SOLID	RT

<u>TEMPORARY LETTER OR SYMBOL</u>

EXIT 5	
NORTHBOUND OFF RAMP	''STOP''
NORTHBOUND OFF RAMP	''AHEAD''
NORTHBOUND OFF RAMP	''STOP''
NORTHBOUND OFF RAMP	''STOP''

<u>TEMPORARY 600 mm STOP BAR</u>
EXIT 5
NORTHBOUND OFF RAMP

<u>REMOVAL & DISP. OF GUARDRAIL</u>
EXIT 5
NORTHBOUND OFF RAMP 62 TO 147 LT

<u>STEEL BEAM GUARDRAIL</u>
EXIT 5
NORTHBOUND OFF RAMP 62 TO 147 LT

<u>ANCHOR FOR STEEL BEAM RAIL</u>
EXIT 5
NORTHBOUND OFF RAMP 147 LT

<u>MANUFACTURED TERMINAL SECTION</u>
EXIT 5
NORTHBOUND OFF RAMP 73 LT

<u>REMOVING SIGNS</u>
AS SHOWN - 12

GORE MARKING DETAIL

NOT TO SCALE

LEGEND

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

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

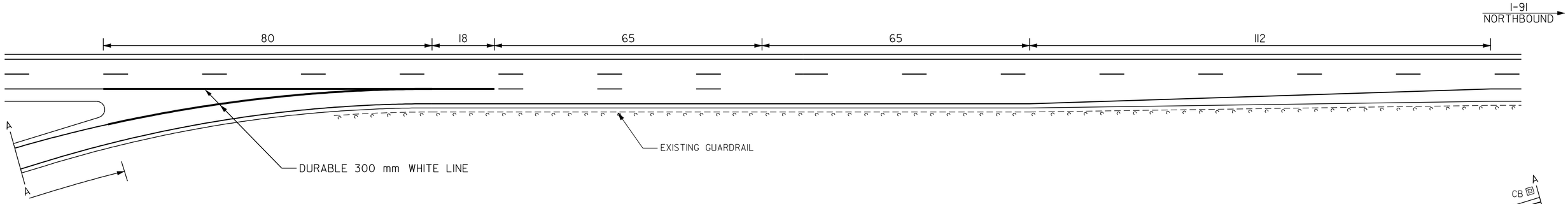
RAMP DETAIL INTERCHANGE #5 OFF RAMP

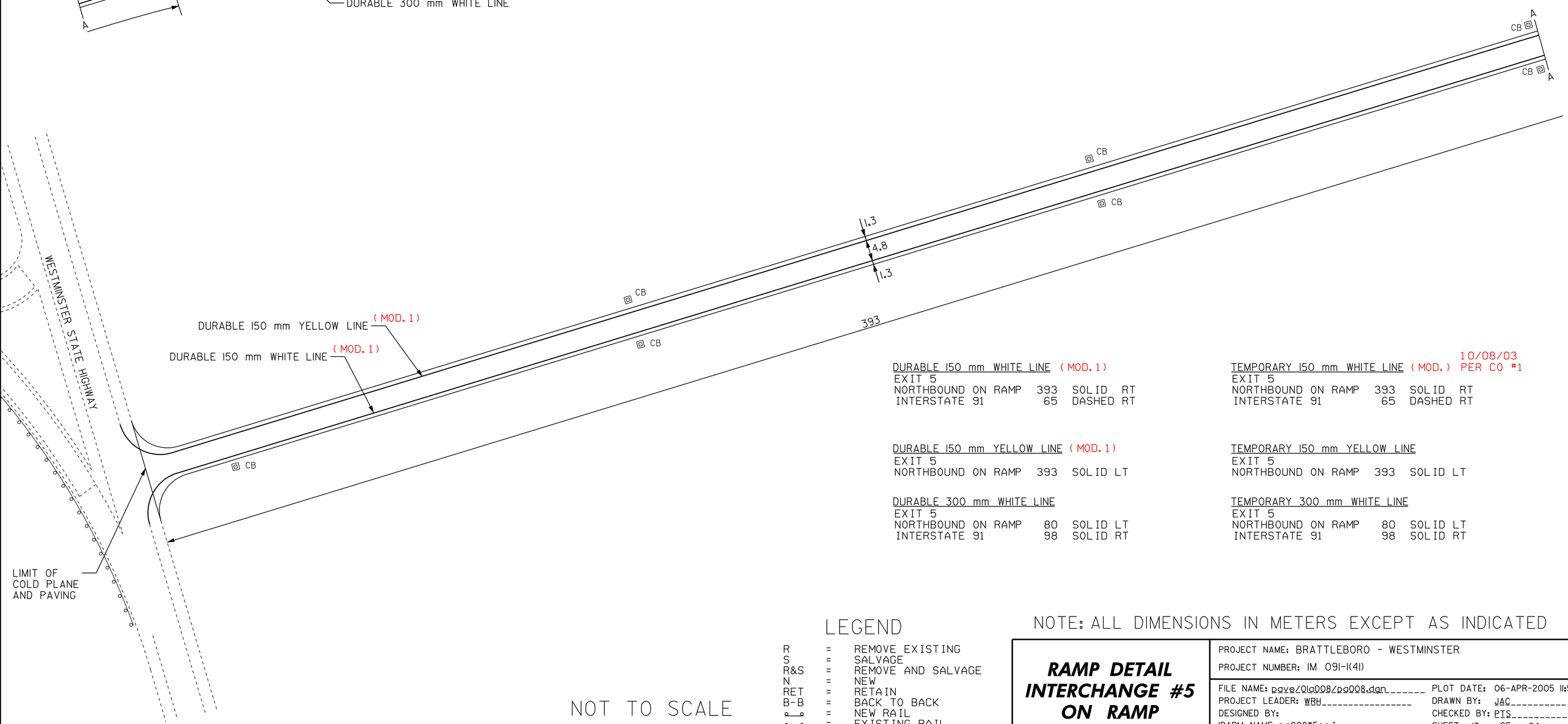
PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008*5off.i
PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS
SHEET 16 OF 24

EXIT 5 – RAMP D
NORTHBOUND ON RAMP

SEE STANDARD E-191M FOR
RAMP STRIPING DETAILS





DURABLE 150 mm WHITE LINE (MOD. 1)

EXIT 5		
NORTHBOUND ON RAMP	393	SOLID RT
INTERSTATE 91	65	DASHED RT

TEMPORARY 150 mm WHITE LINE (MOD.) 10/08/03 PER CO #1

EXIT 5		
NORTHBOUND ON RAMP	393	SOLID RT
INTERSTATE 91	65	DASHED RT

DURABLE 150 mm YELLOW LINE (MOD. 1)

EXIT 5		
NORTHBOUND ON RAMP	393	SOLID LT

TEMPORARY 150 mm YELLOW LINE

EXIT 5		
NORTHBOUND ON RAMP	393	SOLID LT

DURABLE 300 mm WHITE LINE

EXIT 5		
NORTHBOUND ON RAMP	80	SOLID LT
INTERSTATE 91	98	SOLID RT

TEMPORARY 300 mm WHITE LINE

EXIT 5		
NORTHBOUND ON RAMP	80	SOLID LT
INTERSTATE 91	98	SOLID RT

NOT TO SCALE

LEGEND

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

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

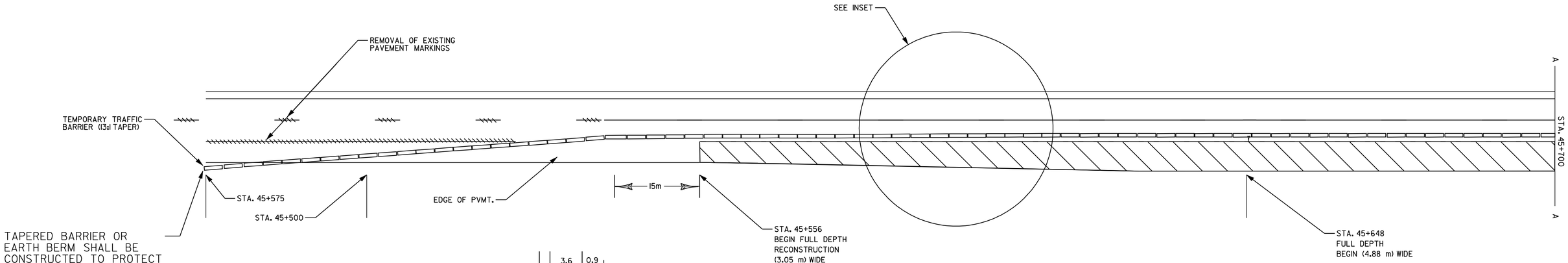
RAMP DETAIL
INTERCHANGE #5
ON RAMP

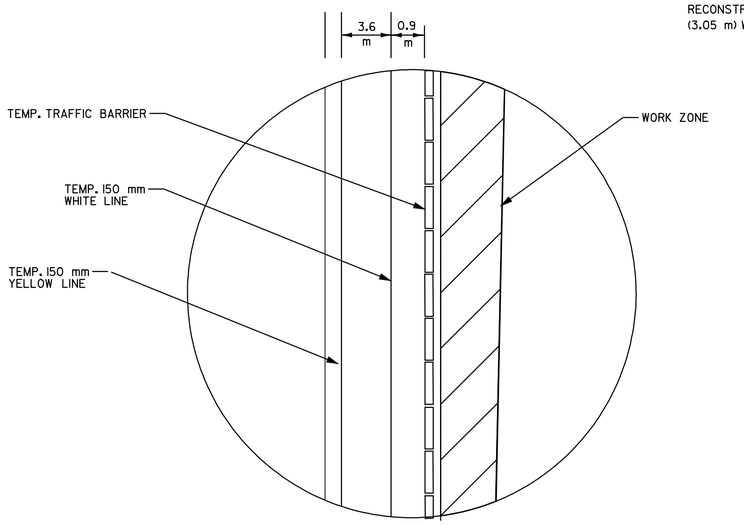
PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

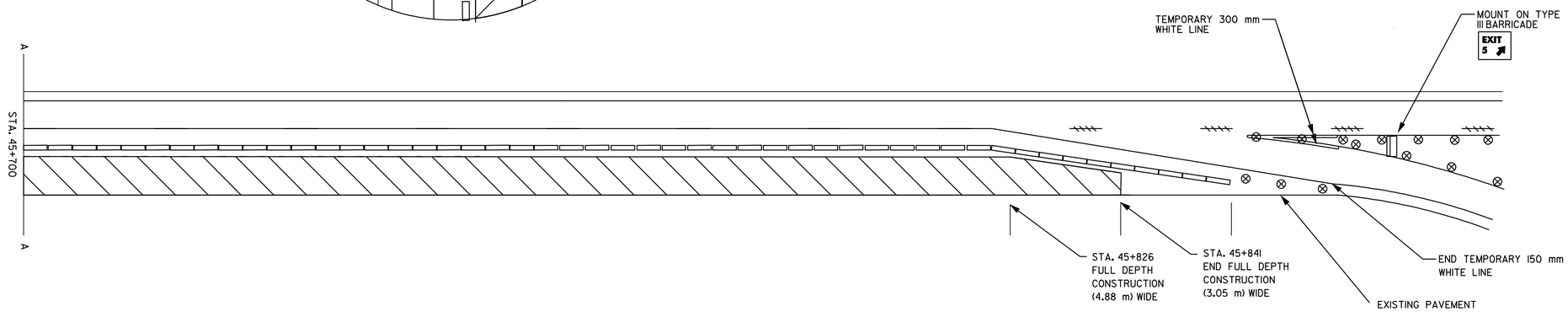
FILE NAME: pave/0la008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008*5on.i

PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PIS
SHEET 17 OF 24

SEE STD. E-103 & E-106 FOR BARREL PLACEMENT AND TAPER LENGTHS FOR LANE CLOSURE







LEGEND

- TEMP. TRAFFIC BARRIER
- REMOVAL OF PAVEMENT

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

TRAFFIC CONTROL PLAN

PROJECT NAME: BRATTLEBORO - WESTMINSTER

PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008tcp01.i

PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS
SHEET 18 OF 24

NOTES:

1. EXIT SIGN SHALL BE MOUNTED A MINIMUM OF 0.900 m ABOVE THE GROUND AND HIGH ENOUGH TO BE SEEN ABOVE CHANNELIZING DEVICES.

2. ALL DISTANCES ARE DESIRABLE MINIMUMS FIELD CONDITIONS SHALL CONTROL THE ACTUAL PLACEMENT.

3. THE PAVEMENT WIDENING SHALL BE CONSTRUCTED USING TWO 70 mm LIFTS OF TYPE II S BASE COURSE AND ONE 35 mm LIFT OF TYPE III S WEARING COURSE. THE FIRST BASE COURSE SHALL BE PLACED TO MATCH THE ELEVATION OF THE ADJOINING SURFACE OF THE I-91 NB TRAVEL LANE.

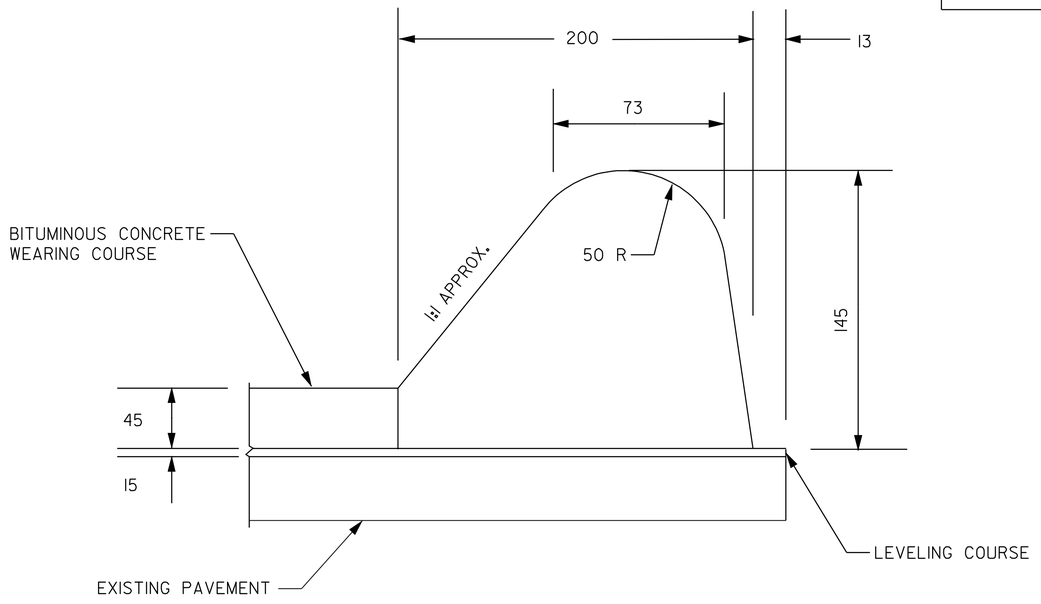
4. EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT THE RATE OF 0.12 L/m2 OR AS DIRECTED BY THE RESIDENT ENGINEER.

5. THE I-91 NB TRAVEL LANE SHALL BE CLOSED TO TRAVEL IN THE AREA OF THE DECELERATION LANE CONSTRUCTION.

6. EXISTING DECELERATION LANE AND SHOULDER PAVEMENT SHALL BE REMOVED UNDER ITEM 203.28, EXCAVATION OF SURFACES AND PAVEMENTS. ALL OTHER EXCAVATION ASSOCIATED WITH THE PAVEMENT WIDENING SHALL BE PERFORMED UNDER ITEM 203.15, COMMON EXCAVATION.

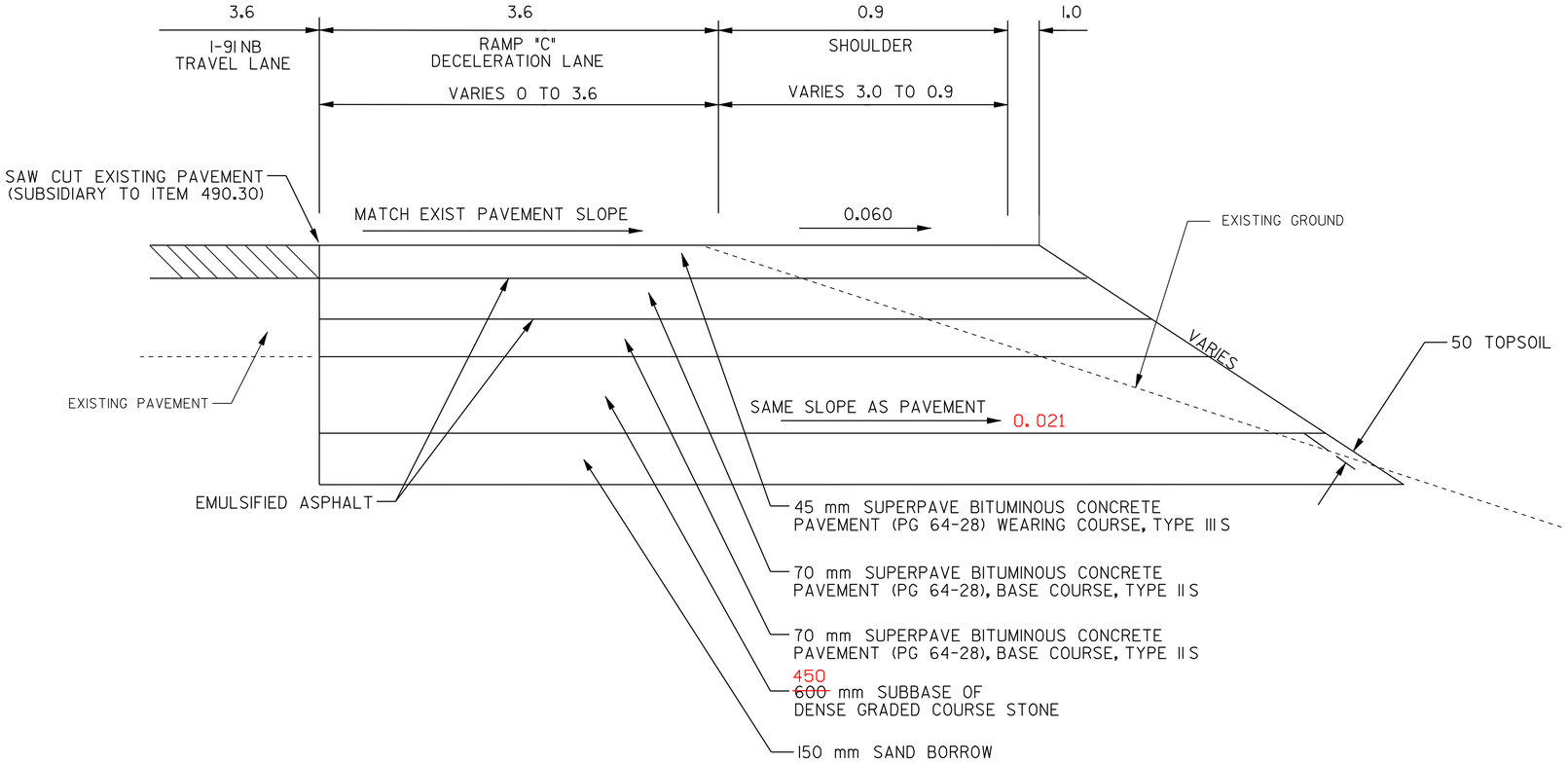
7. REFER TO STD. B-5 FOR CONSTRUCTING AN EMBANKMENT ON A EARTH SLOPE.

8. FINE GRADING HAS BEEN ADDED FOR WORK IN THE AREA OF THE DECEL LANE.



DETAIL FOR BITUMINOUS CONCRETE CURB TYPE B

Sta. 45+556 TO 45+826



PAVEMENT WIDENING DETAIL

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

DETAIL SHEET

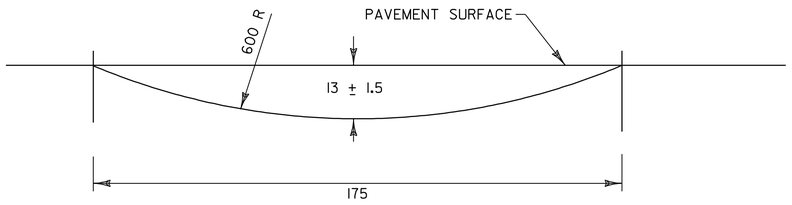
PROJECT NAME: BRATTLEBORO - WESTMINSTER

PROJECT NUMBER: IM 091-1(41)

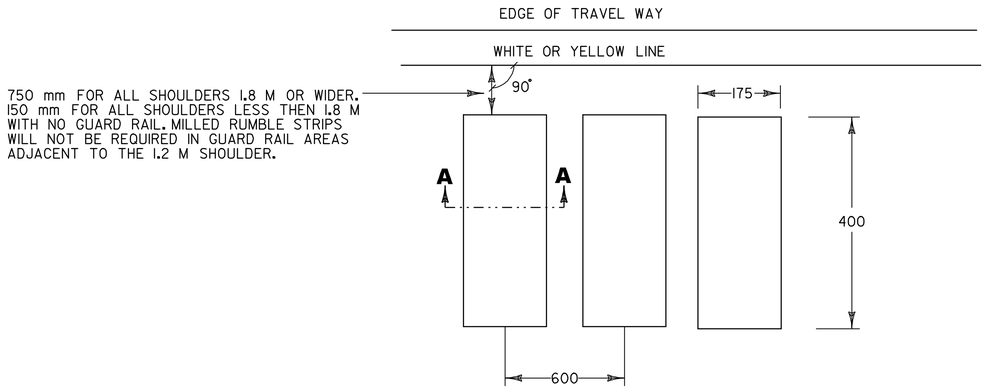
FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008ds.i

PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS
SHEET 19 OF 24

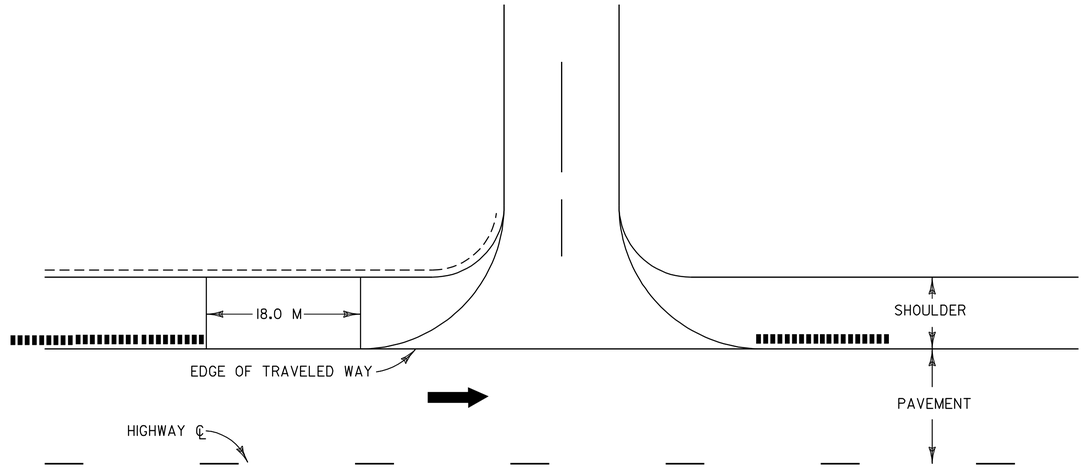
TYPICAL MILLING DETAIL



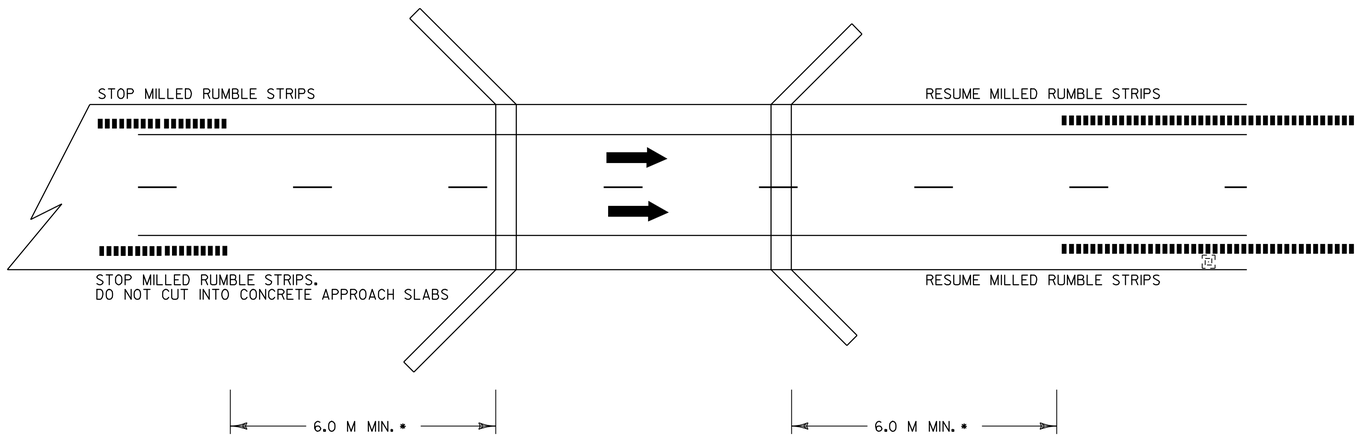
SECTION A-A



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

NOTE:
ALL DIMENSIONS IN MILLIMETERS
EXCEPT WHERE OTHERWISE INDICATED.

MILLED RUMBLE STRIPS DETAIL #1

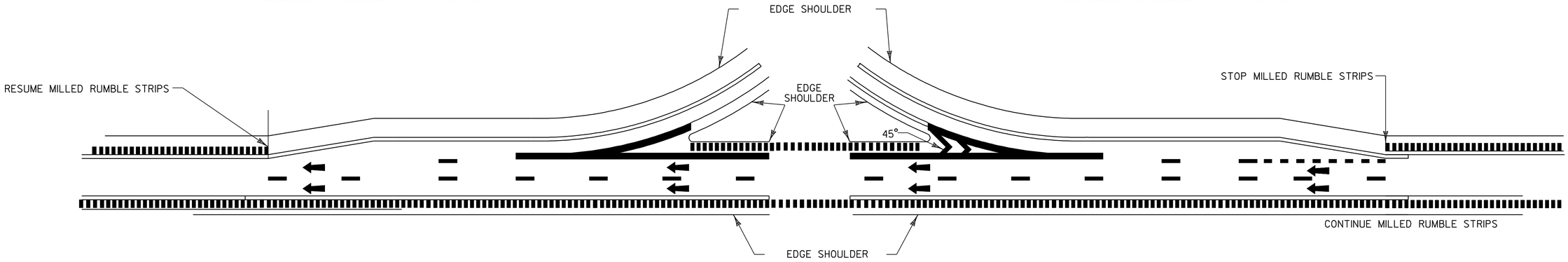
PROJECT NAME: BRATTLEBORO-WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM FILE NAME: pa008mr01.i

PLOT DATE: 06-APR-2005 11:5
DRAWN BY:
CHECKED BY:
SHEET 20 OF 24

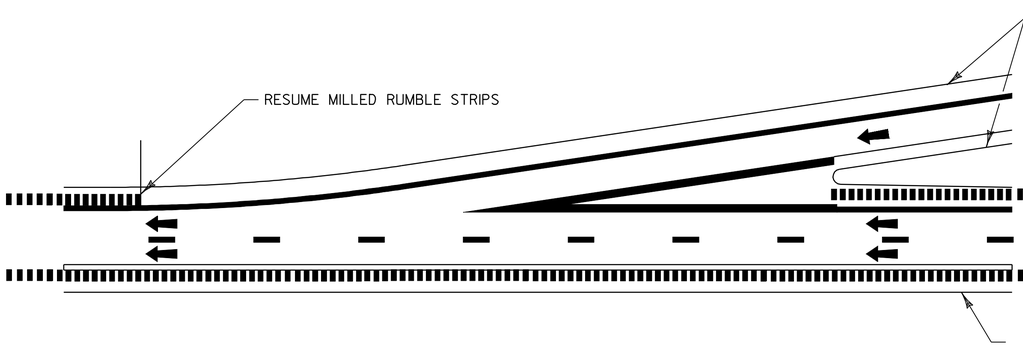
TYPICAL MILLED RUMBLE STRIPS AT INTERCHANGES & REST AREAS

PARALLEL ACCELERATION LANE

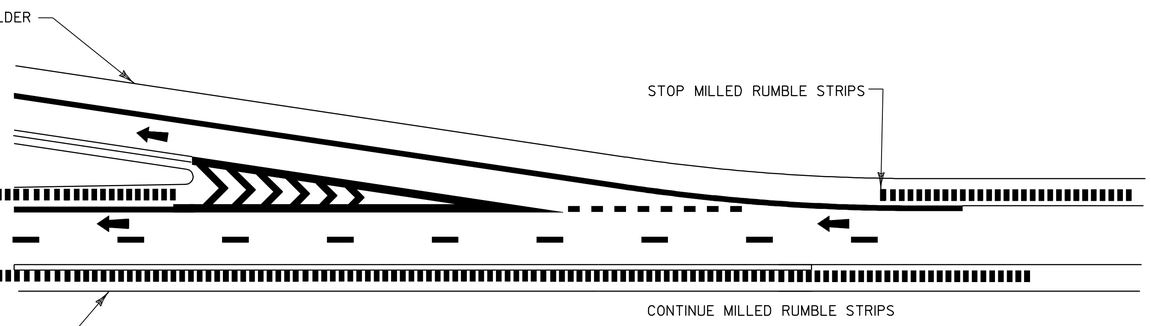


PARALLEL DECELERATION LANE

TAPERED ACCELERATION LANE



TAPERED DECELERATION LANE



LEGEND

DIRECTION OF TRAFFIC FLOW

MILLED RUMBLE STRIPS

NOT TO SCALE

NOTES:

1) ALL DIMENSIONS IN MILLIMETERS EXCEPT WHERE OTHERWISE INDICATED.

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

MILLED RUMBLE STRIPS DETAIL #2

PROJECT NAME: BRATTLEBORO-WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER:
DESIGNED BY:
IPARM FILE NAME: pa008mr02.i

PLOT DATE: 06-APR-2005 11:5
DRAWN BY:
CHECKED BY: _____
SHEET 21 OF 24

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 1

VAOT Metric

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS: FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 3.4	49 3.9	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (mm) kg/m 75 1.9	100 2.5	100 MOD 2.5	TUBULAR STEEL Ø (mm) FOUNDATION	kg/m 75 11.3	89 13.4	100 16.1	125 21.7	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
												OPTION ITEMS																									
BRATTLEBORO-WESTMINSTER																																			
EXIT 4 RAMP C OFF RAMP		I	900	900	0.81						2			X			X																		E-149M
EXIT 4 RAMP C OFF RAMP		I I	750 750	750 750	0.56 0.56						1			X			X																		BACK TO BACK	E-143M E-143M
		I I	900 900	300 300	0.27 0.27																														BACK TO BACK	E-142M E-142M
EXIT 4 RAMP C OFF RAMP		I I	750 750	750 750	0.56 0.56						1			X			X																		BACK TO BACK	E-143M E-143M
		I I	900 900	300 300	0.27 0.27																														BACK TO BACK	E-142M E-142M
EXIT 5 RAMP C OFF RAMP		I	900	900	0.81						2			X			X																		E-149M
EXIT 5 RAMP C LT OFF RAMP		I I	750 750	750 750	0.56 0.56						1			X			X																		BACK TO BACK	E-143M E-143M
		I I	900 900	300 300	0.27 0.27																														BACK TO BACK	E-142M E-142M
EXIT 5 RAMP E RT OFF RAMP		I I	750 750	750 750	0.56 0.56						1			X			X																		BACK TO BACK	E-143M E-143M
		I I	900 900	300 300	0.27 0.27																														BACK TO BACK	E-142M E-142M
TOTALS			m² 8.26	m²	EA.	m²						m 36.8			m 36.8				EA	kg			EA.	kg				EA.	EA.	kg					

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: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY: -
IPARM NAME : pa008ss01.i

PLOT DATE: $DATE$
DRAWN BY: JAC
CHECKED BY: NLL
SHEET 22 OF 24

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 2

VAOT Metric

KILOMETER MARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 3.4	49 3.9	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (mm) kg/m 75 1.9	100 2.5	100 MOD 2.5	TUBULAR STEEL Ø (mm) FOUNDATION	kg/m 75 11.3	89 13.4	100 16.1	125 21.7	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
												OPTION ITEMS																									
EXIT 5 RAMP C RT OFF RAMP	STOP; DO NOT ENTER	I	750	750	0.56						I			X			X																BACK TO BACK		E-143M
		I	750	750	0.56																														E-143M
	ONE WAY	I	900	300	0.27																														E-142M
																																			E-142M
EXIT 5 RAMP E LT OFF RAMP	STOP; DO NOT ENTER	I	750	750	0.56						I			X			X																BACK TO BACK		E-143M
		I	750	750	0.56																														E-143M
	ONE WAY	I	900	300	0.27																														E-142M
PARKING AREA	DO NOT ENTER	I	750	750	0.56						I			X			X																		E-143M
REST AREA	DO NOT ENTER	I	750	750	0.56						I			X			X																		E-143M
	SUBTOTALS SHEET 1				8.26									36.8			36.8																		
	SUBTOTALS SHEET 2				3.90									18.4			18.4																		
												m	m	m 55.2	m	m	m 55.2		EA	kg	kg	kg		kg	kg	kg	kg								
	PROJECT TOTALS				m² 12.16	m²	EA.	m²				m 55.2			m 55.2					kg			EA.	kg				EA.	EA.	kg					

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: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY: -
IPARM NAME : pa008ss02.1

PLOT DATE: $DATE$
DRAWN BY: JAC
CHECKED BY: NLL
SHEET 23 OF 24

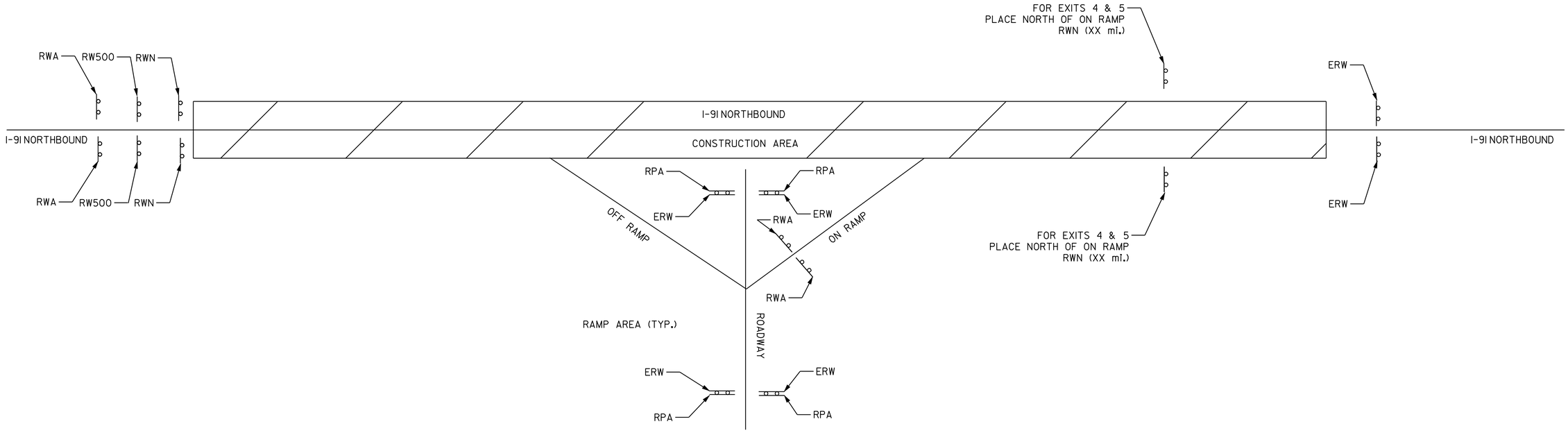
CONSTRUCTION APPROACH SIGNING

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



TOWN/STATE HIGHWAY NAME	ROAD WORK AHEAD	END ROAD WORK	ROAD WORK 500'	ROAD WORK NEXT 18 MILES	ROAD WORK NEXT 11 1/2 MILES	RAMP PAVING AHEAD
I-91 NORTHBOUND						
BEGINNING OF PROJECT	2		2	2		
EXIT 4 INTERCHANGE	2	4				4
STATION 29+623					2	
EXIT 5 INTERCHANGE	2	4				4
END OF PROJECT		2				
TOTAL	6	10	2	2	2	8

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 AND PORTABLE MESSAGE SIGNS 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 LANES AND ON - RAMP OF INTERSTATE 91. 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.

NOTE: ALL DIMENSIONS IN METERS EXCEPT AS INDICATED

CONSTRUCTION APPROACH SIGNING

PROJECT NAME: BRATTLEBORO - WESTMINSTER
PROJECT NUMBER: IM 091-1(41)

FILE NAME: /pave/01a008/pa008.dgn
PROJECT LEADER: WRH
DESIGNED BY:
IPARM NAME: pa008cas.i

PLOT DATE: 06-APR-2005 11:5
DRAWN BY: JAC
CHECKED BY: PTS
SHEET 24 OF 24