INDEX OF SHEETS

BRIDGE JOINT, ASPHALTIC PLUG (STRUCTURES DETAIL SD-516.10)

VAOT STANDARDS

E-100	CONSTRUCTION APPROACH SIGNS	01/02/04
E-101	CONSTRUCTION SIGN DETAILS	05/30/03
E-102	CONSTRUCTION SIGN DETAILS	06/30/03
E-102A	CONSTRUCTION SIGN DETAILS	05/01/04
E-103	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY ONE LANE CLOSED	03/01/04
E-105	TRAFFIC CONTROL FOR CONSTRUCTION VEHICLE U-TURNS ON DIVIDED HIGHWAY	05/01/04
E-106	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	03/01/04
E-107A	BREAKAWAY BARRICADE DETAILS	06/08/09
E-190	RAILROAD CROSSING PAVEMENT MARKINGS	06/30/03
E-191	PAVEMENT MARKING DETAILS	02/01/99
E-192	PAVEMENT MARKING DETAILS	10/12/00
E-193	PAVEMENT MARKING DETAILS	08/18/95

RECORD PLANS

CONTRACTOR: ALL STATE ASPHALT, INC – SUNDERLAND, MA

RESIDENT ENGINEER: SANDRA SCHMITT

CONSTRUCTION BEGAN: MAY 21, 2012

CONSTRUCTION COMPLETE: SEPTEMBER 21, 2012

RECORD PLANS BY: SANDRA SCHMITT & STEPHEN KENT

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

BY Sandra E. Schmitt RESIDENT ENGINEER

DATE 05-20-13

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

QUALITY ASSURANCE PROGRAM: LEVEL 1

CONVENTIONAL SYMBOLS

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

SURVEYED BY : N/A
SURVEYED DATE : N/A

DATUM
VERTICAL N/A
HORIZONTAL N/A

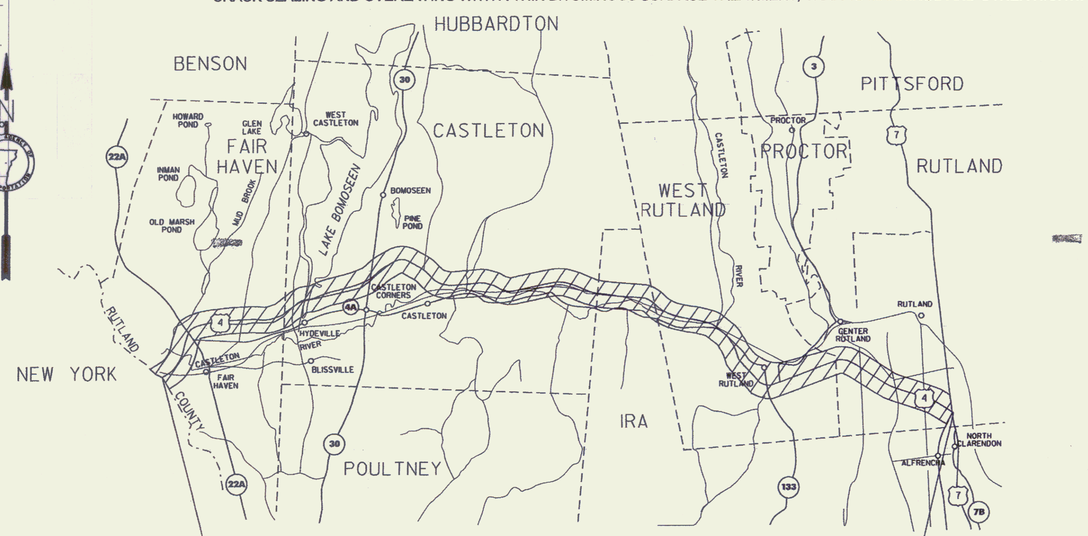
STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT
TOWNS OF FAIR HAVEN CASTLETON IRA WEST RUTLAND & RUTLAND
COUNTY OF RUTLAND
U.S. ROUTE 4 EB & WB

THIS PROJECT INCLUDES BOTH EASTBOUND AND WESTBOUND BARRELS. EB: MM ~~0.195~~ 0.190 ~ MM ~~18.610~~ 18.805; WB: MM ~~0.594~~ 0.578 ~ MM 18.805
INCLUDED ARE THE RAMPS AT INTERCHANGES 2, 3, 4, 5, AND 6.

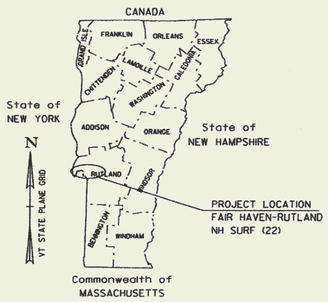
EB LENGTH OF ROADWAY = ~~97,231.2 FT = (18.415 MILES)~~ = 98,287.20 FT = (18.615 MILES)
WB LENGTH OF ROADWAY = ~~96,154.08 FT = (18.211 MILES)~~ = 96,238.56 FT = (18.227 MILES)
PROJECT LENGTH ~~97,231.20 FT = (18.415 MILES)~~ 98,287.20 FT = (18.615 MILES)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES SURFACE PREPARATION INVOLVING PATCHING, POT HOLE REPAIR, CRACK SEALING AND OVERLAYING WITH A THIN BITUMINOUS SURFACE TREATMENT, TRAFFIC MARKINGS AND OTHER HIGHWAY RELATED ITEMS.



BEGIN NH SURF(22)
MM ~~0.195~~ EB 0.190
MM ~~0.594~~ WB 0.578

END NH SURF(22)
MM ~~18.610~~ EB 18.805
MM 18.805 WB



TRAFFIC DATA

EASTBOUND	WESTBOUND
NY S/L - VT. RTE.4A	NY S/L - VT. RTE.4A
2011 ADT = 3900	2011 ADT = 3900
2011 DHV = 500	2011 DHV = 540
2021 ADT = 4300	2021 ADT = 4300
2021 DHV = 550	2021 DHV = 600
2011 - 2021 CUM. ESALS = 2,973,000	2010 - 2020 CUM. ESALS = 2,779,000
2011 - 2031 CUM. ESALS = 7,081,000	2011 - 2031 CUM. ESALS = 6,597,000
VT. RTE. 4A - VT. 22A	VT. RTE. 4A - VT. 22A
2011 ADT = 3500	2011 ADT = 3550
2011 DHV = 450	2011 DHV = 490
2021 ADT = 3800	2021 ADT = 3800
2021 DHV = 490	2021 DHV = 530
2011 - 2021 CUM. ESALS = 2,291,000	2010 - 2020 CUM. ESALS = 2,325,000
2011 - 2031 CUM. ESALS = 5,130,000	2011 - 2031 CUM. ESALS = 5,213,000
VT. RTE. 22A - FSH	VT. RTE. 22A - FSH
2011 ADT = 3100	2011 ADT = 3100
2011 DHV = 400	2011 DHV = 430
2021 ADT = 3300	2021 ADT = 3300
2021 DHV = 430	2021 DHV = 460
2011 - 2021 CUM. ESALS = 1,334,000	2010 - 2020 CUM. ESALS = 4,132,000
2011 - 2031 CUM. ESALS = 3,152,000	2011 - 2031 CUM. ESALS = 13,802,000
FSH - VT. RTE. 30	FSH - VT. RTE. 30
2011 ADT = 4000	2011 ADT = 4000
2011 DHV = 520	2011 DHV = 560
2021 ADT = 4300	2021 ADT = 4300
2021 DHV = 550	2021 DHV = 600
2011 - 2021 CUM. ESALS = 1,690,000	2011 - 2021 CUM. ESALS = 2,292,000
2011 - 2031 CUM. ESALS = 3,648,000	2011 - 2031 CUM. ESALS = 4,799,000
VT. RTE. 30 - CSH	VT. RTE. 30 - CSH
2011 ADT = 5700	2011 ADT = 5700
2011 DHV = 740	2011 DHV = 790
2021 ADT = 6000	2021 ADT = 6000
2021 DHV = 770	2021 DHV = 830
2011 - 2021 CUM. ESALS = 2,014,000	2011 - 2021 CUM. ESALS = 1,466,000
2011 - 2031 CUM. ESALS = 4,851,000	2011 - 2031 CUM. ESALS = 3,500,000
CSH - BR US 4	CSH - BR US 4
2011 ADT = 6800	2011 ADT = 6800
2011 DHV = 730	2011 DHV = 830
2021 ADT = 7400	2021 ADT = 7400
2021 DHV = 800	2021 DHV = 900
2011 - 2021 CUM. ESALS = 1,759,000	2011 - 2021 CUM. ESALS = 2,423,000
2011 - 2031 CUM. ESALS = 4,261,000	2011 - 2031 CUM. ESALS = 5,951,000
BR US 4 - US 7	BR US 4 - US 7
2011 ADT = 5100	2011 ADT = 5100
2011 DHV = 550	2011 DHV = 620
2021 ADT = 5600	2021 ADT = 5600
2021 DHV = 600	2021 DHV = 680
2011 - 2021 CUM. ESALS = 1,583,000	2011 - 2021 CUM. ESALS = 1,928,000
2011 - 2031 CUM. ESALS = 3,848,000	2011 - 2031 CUM. ESALS = 4,687,000

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

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2006, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 15, 2006 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

p09a380#1.1

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED Richard Hilliard DATE 5/1/11

PROJECT MANAGER : MICHAEL FOWLER, P.E.

PROJECT NAME : FAIR HAVEN - RUTLAND
PROJECT NUMBER : NH SURF (22)

SHEET 1 OF 24 SHEETS

NOTES:

1. IF IT IS DETERMINED IN AREAS ALONG THE BASE OF THE GUARDRAIL THAT WINTER SAND AND OTHER DEBRIS HAS ACCUMULATED SUFFICIENTLY TO AFFECT PROPER CRACK-SEALING AND RELATED PATCHING AND POTHOLE REPAIR TREATMENTS, THIS MATERIAL SHALL BE REMOVED PRIOR TO CRACK-SEALING, PATCHING, AND POTHOLE REPAIR AS DIRECTED BY THE RESIDENT ENGINEER. AN ESTIMATED QUANTITY FOR ITEM 203.40 SHOULDER BERM REMOVAL HAS BEEN INCLUDED TO COVER THE COSTS ASSOCIATED WITH THIS WORK.

2. ALL EXISTING PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO APPLYING THE THIN BITUMINOUS SURFACE TREATMENT. PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO ANY CRACK SEALING BEING PERFORMED. ALL LANE DELINEATION IS TO BE MAINTAINED DURING CONSTRUCTION BY THE USE OF LINE STRIPING TARGETS OR TEMPORARY PAINT.

3. TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED FOR THIS TREATMENT. THE FIRST APPLICATION WILL BE IMMEDIATELY FOLLOWING PLACEMENT OF THE SURFACE TREATMENT, AS DIRECTED BY THE RESIDENT ENGINEER. THE SECOND AND FINAL APPLICATION WILL BE APPLIED NO SOONER THAN 15 SEPTEMBER 2012, AND NO LATER THAN 12 OCTOBER 2012.

4. THERE ARE WEIGH-IN-MOTION SENSORS IN THE PAVEMENT AT MM 1.00 EASTBOUND AND WESTBOUND THAT MAY BE IMPACTED BY CONSTRUCTION ACTIVITIES. INSTALLATION OF NEW SENSORS WILL BE PERFORMED BY OTHERS FOLLOWING COMPLETION OF THE PROJECT. THE RESIDENT ENGINEER IS TO CONTACT DAVE GOSSELIN @ 802.828.2694 PRIOR TO PLACEMENT OF THE SURFACE TREATMENT.

5. ~~THERE IS AN RWIS INSTALLATION AT MM 0.25 WITH SURFACE SENSORS LOCATED IN THE EASTBOUND BARREL OF THE PROJECT. THE CONTRACTOR IS TO AVOID DAMAGING THE SENSORS. THE SENSORS ARE TO BE REMOVED BY THE CONTRACTOR PRIOR TO CONSTRUCTION ACTIVITIES AT THIS LOCATION. PAYMENT WILL NOT BE MADE DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO THE SURFACE TREATMENT ITEM. REINSTALLATION IS TO BE DONE BY OTHERS. THE RESIDENT ENGINEER IS TO CONTACT MARK GERRISH @ 802.828.2834.~~

5. OUT OF PROJECT LIMITS AT ~ MM 0.025

6. ALL NECESSARY SURFACE PREPARATION INVOLVING PATCHING, POTHOLE REPAIR, AND CRACK SEALING SHALL BE PERFORMED PRIOR TO PAVING. ALL CRACKS GREATER THAN 0.20'' AND UP TO 1.0'' IN WIDTH SHALL BE SEALED USING THE ''BLOW AND GO'' METHOD. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE PAID UNDER ITEM 417.20 BITUMINOUS CRACK SEALING, ''BLOW AND GO'' METHOD. STRIKE OFF OF EXCESS MATERIAL MAY BE ACCOMPLISHED WITH A SQUEEGEE. THE PATCHING OF ALL CRACKS GREATER THAN 1.0'' AND ALL OTHER PATCHING AND POTHOLE REPAIR SHALL BE COMPLETED WITH BITUMINOUS CONCRETE PAVEMENT TYPE IV OR TYPE V, OR SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TYPE IVS OR TYPE VS AS DIRECTED BY THE RESIDENT ENGINEER. AN ESTIMATED QUANTITY OF ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I) HAS BEEN INCLUDED TO COVER ALL COSTS ASSOCIATED WITH THIS WORK.

7. A 50' COLD PLANED WEDGE SHALL BE CONSTRUCTED AT THE PROJECT BEGIN AND END, RAMPS, BRIDGE APPROACHES, AND RAILROAD CROSSING. THE LONGITUDINAL EDGES OF THE SURFACE TREATMENT SHALL BE TAPERED AS SHOWN ON THE TYPICAL SECTION, OR AS DIRECTED BY THE RESIDENT ENGINEER. ANY SAW CUTTING AT BUTT JOINTS WILL NOT BE MADE DIRECTLY, BUT WILL BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 210.10, COLD PLANING, BITUMINOUS PAVEMENT.

8. FOLLOWING COMPLETION OF COLD PLANING, THE MILLED SURFACE FOR ALL BRIDGES SHALL ALSO RECEIVE CRACK-SEALING AND RELATED PATCHING AND POTHOLE REPAIR TREATMENTS, AS DIRECTED BY THE RESIDENT ENGINEER.

9. THE GYRATION SPECIFICATION FOR THE SPECIAL PROVISION (6.3 MM POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT) SHALL BE 65.

10. EXISTING SHOULDER PAVEMENT SURFACES BEYOND THE LIMITS OF THE THIN BITUMINOUS SURFACE TREATMENT SHALL ALSO RECEIVE CRACK-SEALING AND RELATED PATCHING AND POTHOLE REPAIR TREATMENTS.

~~BRIDGE TREATMENT EASTBOUND BARREL~~
~~BR. NO. 3-E, MM 0.721 PL. GIRD. (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 8-E, MM 4.148 PL. GIRD. (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 10-E, MM 5.449 PL. GIRD. (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 13-E, MM 12.952 WF BEAM (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 14-E, MM 13.067 WF BEAM (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 15-E, MM 14.522 W BEAM (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 16-E, MM 14.899 COMP. GIRD. (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 19-E, MM 17.578 PL. GIRD. (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 20-E, MM 17.839 PL. GIRD. (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~

~~BRIDGE TREATMENT WESTBOUND BARREL~~
~~BR. NO. 3-W, MM 0.721 PL. GIRD. (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 8-W, MM 4.148 PL. GIRD. (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 10-W, MM 5.449 PL. GIRD. (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 13-W, MM 12.952 WF BEAM (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 14-W, MM 13.067 WF BEAM (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 15-W, MM 14.522 W BEAM (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 16-W, MM 14.899 COMP. GIRD. (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 19-W, MM 17.578 PL. GIRD. (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~
~~BR. NO. 20-W, MM 17.839 PL. GIRD. (COLD PLANE 1.0" THEN PAVE WITH THIN BITUMINOUS SURFACE TREATMENT).~~

BRIDGE TREATMENT WESTBOUND
20 W: NO TREATMENT
19 W: 1" MILL, 1" FILL THEN TAPER TO ¾"
16 W: 1" MILL, 1" FILL THEN TAPER TO ¾"
15 W: 1" MILL, 1" FILL THEN TAPER TO ¾"
14 W: NO TREATMENT
13 W: NO TREATMENT
10 W: NO TREATMENT
8 W: 1" MILL, 1" FILL THEN TAPER TO ¾"
5 W: 1" MILL, 1" FILL THEN TAPER TO ¾"
3 W: NO TREATMENT

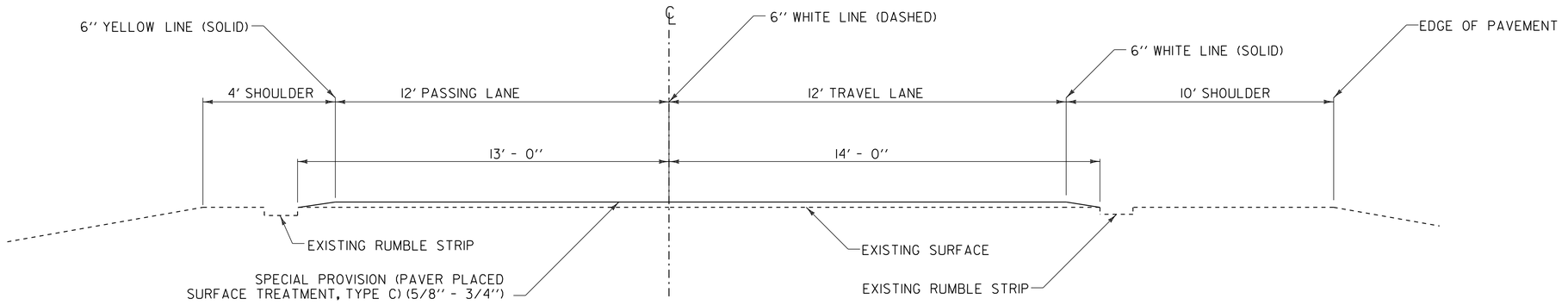
BRIDGE TREATMENT EAST BOUND
20 E: NO TREATMENT
19 E: NO TREATMENT
16 E: NO TREATMENT
15 E: 1" MILL, 1" FILL THEN TAPER TO ¾"
14 E: 1" MILL, 1" FILL THEN TAPER TO ¾"
13 E: 1" MILL, 1" FILL THEN TAPER TO ¾"
10 E: 1" MILL, 1" FILL THEN TAPER TO ¾"
8 E: 1" MILL, 1" FILL THEN TAPER TO ¾"
5 E: 1" MILL, 1" FILL THEN TAPER TO ¾"
3 E: NO TREATMENT

PROJECT NOTES SHEET

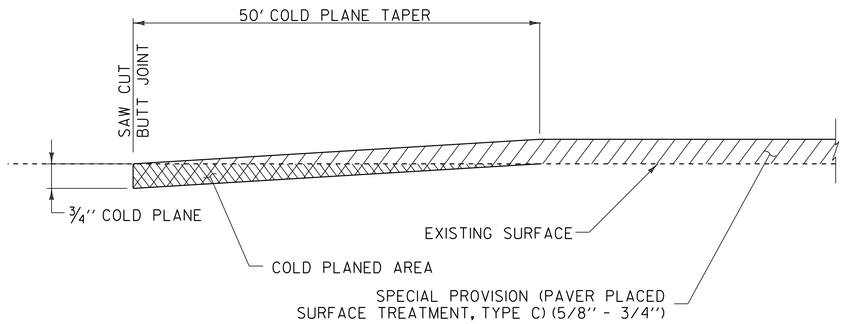
PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
PROJECT NUMBER: NH SURF (22)

FILE NAME: 10b106\10b106.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
IPARM FILE NAME: 10B106*2.i

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVMT MGMT
SHEET 2 OF 24

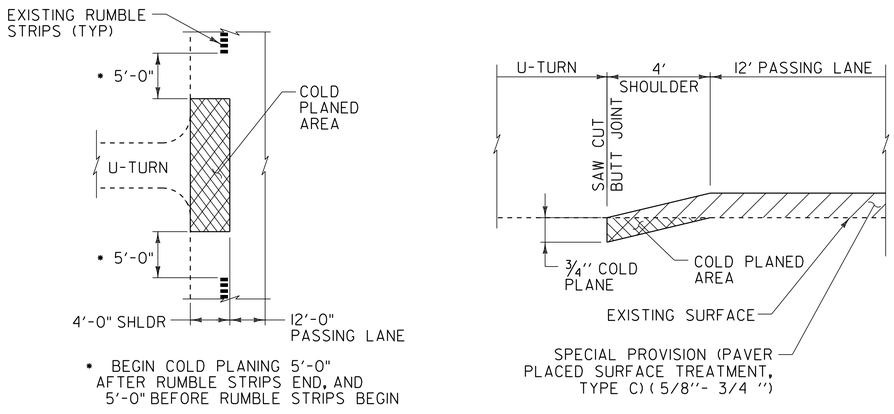


TYPICAL SECTION – ALTERNATE A
PAVER PLACED SURFACE TREATMENT TYPE C
US RTE. 4 EASTBOUND MM ~~0.195~~ 0.190 – MM 18.805
US RTE. 4 WESTBOUND MM ~~0.594~~ 0.578 – MM 18.805

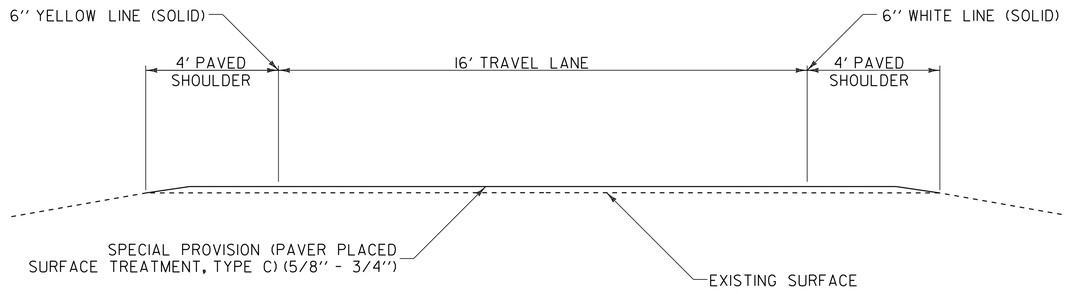


COLD PLANE DETAIL AT BEGIN/END PROJECT & RAMPS

NOTES:
1. SURFACE PREPARATION IS REQUIRED ON ALL RAMPS.



COLD PLANE DETAIL AT U-TURNS



TYPICAL RAMP SECTION

NOT TO SCALE

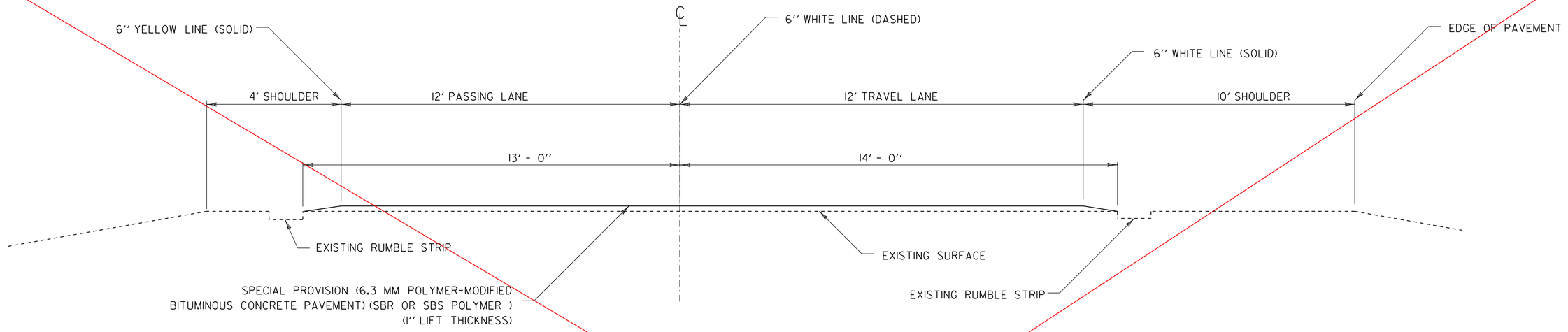
ALTERNATE A TYPICAL SECTIONS

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
PROJECT NUMBER: NH SURF (22)

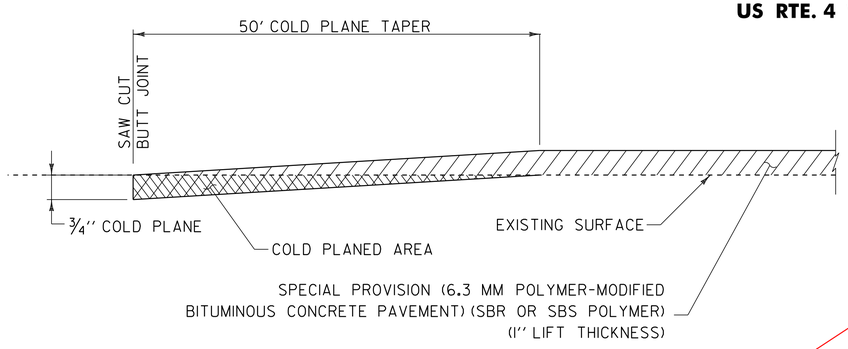
FILE NAME: 10b106/10b106.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
IPARM FILE NAME: 10B106*3.i

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 3 OF 24

TYPICAL SECTION

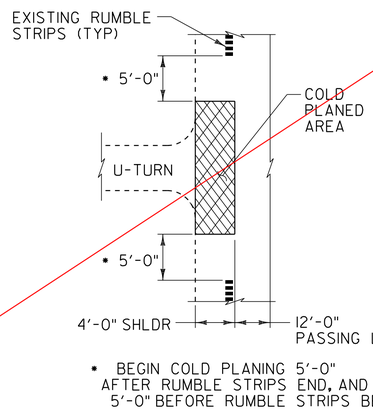


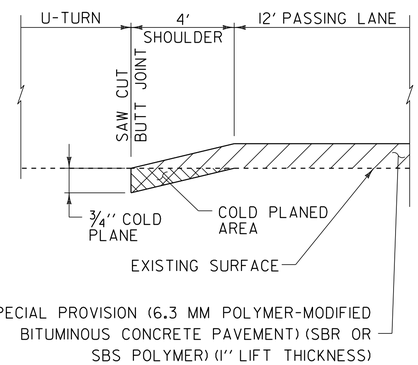
PROJECT TYPICAL SECTION – ALTERNATE B
6.3 MM POLYMER–MODIFIED BITUMINOUS CONCRETE PAVEMENT
US RTE. 4 EASTBOUND MM 0.195 – MM 18.805
US RTE. 4 WESTBOUND MM 0.594 – MM 18.805



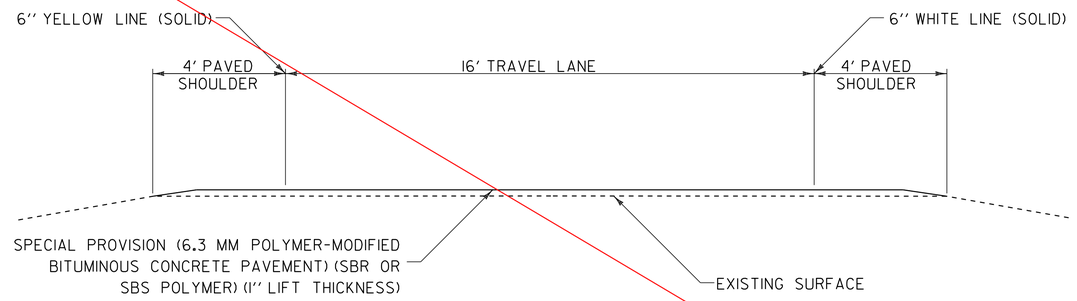
COLD PLANE DETAIL AT BEGIN/END PROJECT & RAMPS

NOTES:
1. SURFACE PREPARATION IS REQUIRED ON ALL RAMPS.





COLD PLANE DETAIL AT U–TURNS



TYPICAL RAMP SECTION

NOTE:

1. PRIOR TO THE PLACEMENT OF THE POLYMER MODIFIED SURFACE TREATMENT, EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES AND ON ALL COLD PLANED SURFACES AT A RATE OF 0.080 GAL/SY (+/- 0.01 GAL/SY) OR AS DIRECTED BY THE RESIDENT ENGINEER. EMULSIFIED ASPHALT SHALL BE RS-1H OR CRS-1H PER THE MANUFACTURER'S RECOMMENDATION. THIS SHALL BE PAID UNDER ITEM 900.683 SPECIAL PROVISION (EMULSIFIED ASPHALT) (RS-1H OR CRS-1H).

USED ALTERNATE A

NOT TO SCALE

ALTERNATE B TYPICAL SECTIONS

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
PROJECT NUMBER: NH SURF(22)

FILE NAME: 10B106\10B106.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
10A106=4.1

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 4 OF 24

QUANTITY SHEET 1

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

EMPLOYEE TRAINEESHIP	BRIDGE	ROADWAY	FULL C.E.	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
						BEGIN ITEMS COMMON TO ALL ALTERNATES		
		110 500		110 500	LF	SHOULDER BERM REMOVAL	203.40	230
		1		1	CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	EST
		26 000		26 000	SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	396
		1		1	LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
		80 000		80 000	LB	BITUMINOUS CRACK SEALING, "BLOW AND GO" METHOD (AASHTO M 324 (ASTM D 6690)TYPE II)	417.20	395
	1400			1400	LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10	4
	100			100	CF	RAPID SETTING CONCRETE REPAIR MATERIAL WITH COURSE AGGREGATE	580.20	EST
		300		300	HR	POWER BROOM RENTAL, TYPE I	608.30	EST
		2 000		2 000	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST
		1200		1200	HR	FLAGGERS	630.15	EST
			1	1	LS	FIELD OFFICE, ENGINEERS	631.10	
			1	1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17	-
			3 000	3 000	DL	FIELD OFFICE, TELEPHONE (N.A.B.I.)	631.26	-
520				520	HR	EMPLOYEE TRAINEESHIP	634.10	-
		1		1	LS	MOBILIZATION/DEMOBILIZATION	635.11	
		1		1	LS	TRAFFIC CONTROL	641.10	
		4		4	EA	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	-
		530 000		530 000	LF	6 INCH WHITE LINE	646.214	2846
		435 000		435 000	LF	6 INCH YELLOW LINE	646.215	4582
		6 000		6 000	LF	12 INCH WHITE LINE	646.24	EST
		350		350	LF	24 INCH STOP BAR	646.26	20
		195		195	EA	LETTER OR SYMBOL	646.30	EST
		4		4	EA	RAILROAD CROSSING SYMBOL	646.32	-
		265 000		265 000	LF	TEMPORARY 6 INCH WHITE LINE	646.620	1423
		220 000		220 000	LF	TEMPORARY 6 INCH YELLOW LINE	646.630	4791
		6 000		6 000	LF	TEMPORARY 12 INCH WHITE LINE	646.660	EST.
		350		350	LF	TEMPORARY 24 INCH STOP BAR	646.680	20
		108		108	EA	TEMPORARY LETTER OR SYMBOL	646.690	EST.
		4		4	EA	TEMPORARY RAILROAD CROSSING SYMBOL	646.710	
		10 250		10 250	EA	LINE STRIPING TARGETS	646.76	33
		241000		241000	SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85	550
		1		1	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-
		1		1	LU	SPECIAL PROVISION (MAINTENANCE OF RAILROAD TRAFFIC)(N.A.B.I.)	900.650	-
		30		30	TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT SURFACE PREPARATION, TYPE I)	900.680	EST.
						END ITEMS COMMON TO ALL ALTERNATES		

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		BEGIN ALTERNATE A
		COLD PLANING, BITUMINOUS PAVEMENT
150	SY	BEGIN PROJECT
150	SY	END PROJECT
20 664	SY	BRIDGES
3 690	SY	INTERCHANGES
350	SY	U-TURNS
600	SY	RAILROAD CROSSING
25 604	SY	SUBTOTAL
396	SY	ROUNDING
26 000	SY	TOTAL

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
PROJECT NUMBER: NH SURF (22)

FILE NAME: 10b106\10b106.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
IPARM FILE NAME: 10B106*5.i

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 5 OF 24

QUANTITY SHEET 2

STATE OF VERMONT
AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES

EMPLOYEE TRAINEESHIP	BRIDGE	ROADWAY	FULL C.E.	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
						BEGIN ALTERNATE A		
		645 000		645 000	SY	SPECIAL PROVISION (PAVER PLACED SURFACE	900.675	3570
						TREATMENT, TYPE C)		
						END ALTERNATE A		
						BEGIN ALTERNATE B		
		1		1	LU	AIR VOIDS PAY ADJUSTMENT (N.A.B.I.)	490.31	-
		38 000		38 000	TON	SPECIAL PROVISION (6.3 MM POLYMER - MODIFIED	900.680	463
						BITUMINOUS CONCRETE PAVEMENT(SBR OR SBS POLYMER)		
		4 500		4 500	CWT	SPECIAL PROVISION (EMULSIFIED ASPHALT)	900.683	39
						(RS-1H OR CRS-1H)		
						END ALTERNATE B		

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		SPECIAL PROVISION (PAVER-PLACED SURFACE TREATMENT,
		TYPE C)
294 782	SY	MAINLINE--EB
288 462	SY	MAINLINE--WB
57 957	SY	INTERCHANGES
229	SY	END PROJECT RAMPS
641430	SY	SUBTOTAL
3570	SY	ROUNDING
645 000	SY	TOTAL
		END ALTERNATE A
		BEGIN ALTERNATE B
		BITUMINOUS CONCRETE PAVEMENT)
		SPECIAL PROVISION (6.3 MM POLYMER - MODIFIED
		(SBR OR SBS POLYMER)
17 196	TON	MAINLINE-EB
16 827	TON	MAINLINE-WB
3 381	TON	INTERCHANGES
133	TON	END PROJECT RAMPS
37 537	TON	SUBTOTAL
463	TON	ROUNDING
38 000	TON	TOTAL
		END ALTERNATE B

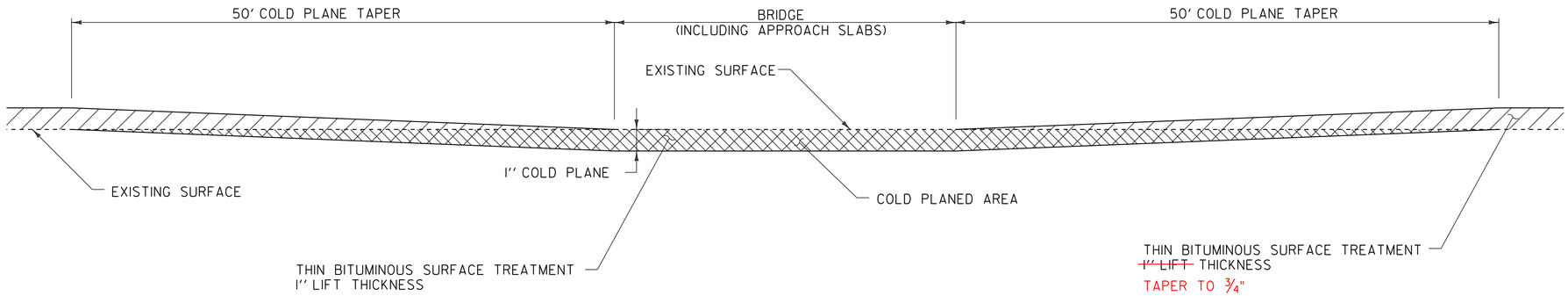
DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS

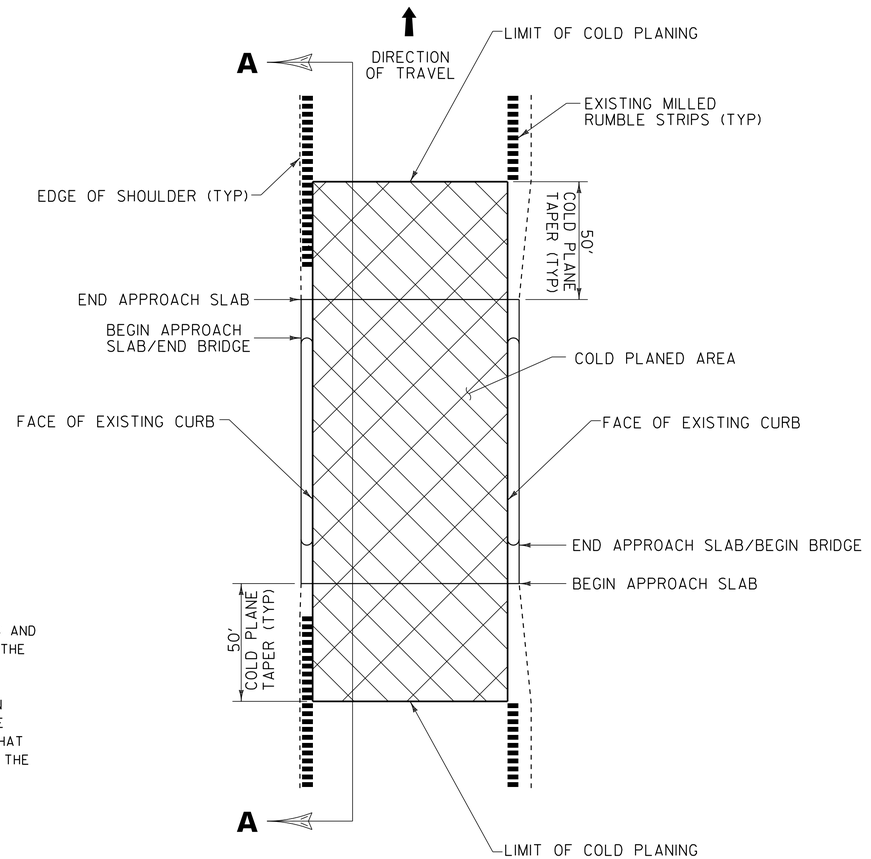
PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
PROJECT NUMBER: NH SURF (22)

FILE NAME: 10b106\10b106.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
IPARM FILE NAME: 10B106*6.i

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 6 OF 24



BRIDGE COLD PLANE TYPICAL SECTION A–A



BRIDGE COLD PLANE TYPICAL PLAN

NOT TO SCALE

ASPHALTIC PLUG–TYPE JOINT LOCATIONS

BRIDGE #	JOINT #	MM	LENGTH
~~3-E~~	~~1~~	~~0.715~~	~~43~~
~~3-E~~	~~3~~	~~0.760~~	~~43~~
~~5-E~~			~~36.6~~
~~8-E~~	~~2~~	~~4.135~~	~~37~~
10-E	1	5.440	~~48~~ 47.0
~~10-E~~	~~2~~	~~5.445~~	~~48~~
10-E	4	5.485	~~48~~ 47.5
13-E	1	12.925	~~30~~ 30.33
~~13-E~~	~~2~~	~~12.94~~	~~30~~
~~13-E~~	~~3~~	~~12.955~~	~~30~~
~~13-E~~	~~4~~	~~12.970~~	~~30~~
13-E	5	12.985	~~30~~ 30.33
14-E	1	13.035	~~47~~ 44.0
15-E	1	14.600	~~38~~ 40.5
15-E	2	14.620	~~38~~ 41.5
16-E	1	14.880	~~37~~ 44.0
16-E	2	14.9100	~~37~~ 30.0
19-E	2	17.590	~~36~~ 41.6
TOTAL			~~650~~ 433.36 LF

BRIDGE #	MM	JOINT #	LENGTH
~~3-W~~	~~0.675~~	~~1~~	~~43~~
~~3-W~~	~~0.720~~	~~2~~	~~43~~
~~5-W~~			~~37.4~~
~~8-W~~	~~4.080~~	~~1~~	~~37~~
~~8-W~~	~~4.180~~	~~2~~	~~37~~
~~10-W~~	~~5.425~~	~~1~~	~~48~~
~~10-W~~	~~5.435~~	~~2~~	~~48~~
~~10-W~~	~~5.460~~	~~3~~	~~48~~
~~10-W~~	~~5.470~~	~~4~~	~~48~~
13-W	12.930	1	~~30~~ 30.3
~~13-W~~	~~12.940~~	~~2~~	~~30~~
~~13-W~~	~~12.975~~	~~3~~	~~30~~
~~13-W~~	~~12.980~~	~~4~~	~~30~~
~~13-W~~	~~12.990~~	~~5~~	~~30~~
~~14-W~~	~~13.045~~	~~1~~	~~47~~
~~14-W~~	~~13.110~~	~~2~~	~~47~~
15-W	14.580	1	~~38~~ 39.0
15-W	14.600	2	~~38~~ 36.0
16-W	14.865	1	37
16-W	14.895	2	~~37~~ 36.0
~~19-W~~			~~43.0~~
TOTAL			~~746~~ 258.7 LF

TOTAL EB AND WB = 433.36 LF + 258.7 LF + 0.04 (PROJECT ROUNDING)
= 692.1 LF

NOTES:

1. REFER TO STRUCTURES DETAIL SD-516.10. ALL NEW JOINTS TO BE PAID FOR UNDER ITEM 516.10, "BRIDGE EXPANSION JOINT, ASPHALTIC PLUG".
2. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING DRAINAGE STRUCTURES AND EXPANSION JOINTS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE EXPENSE OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID THE ACCUMULATION OF DEBRIS IN THE DRAINAGE STRUCTURES LOCATED AT CURB LINE AND IN THE EXPANSION JOINTS. THE CONTRACTOR SHALL EXAMINE THESE BRIDGE FEATURES ON A DAILY BASIS TO ENSURE THAT DEBRIS HAS NOT ACCUMULATED. ANY DEBRIS WHICH IS PRESENT SHALL BE REMOVED BY THE CONTRACTOR AT NO COST TO THE STATE.

LEGEND

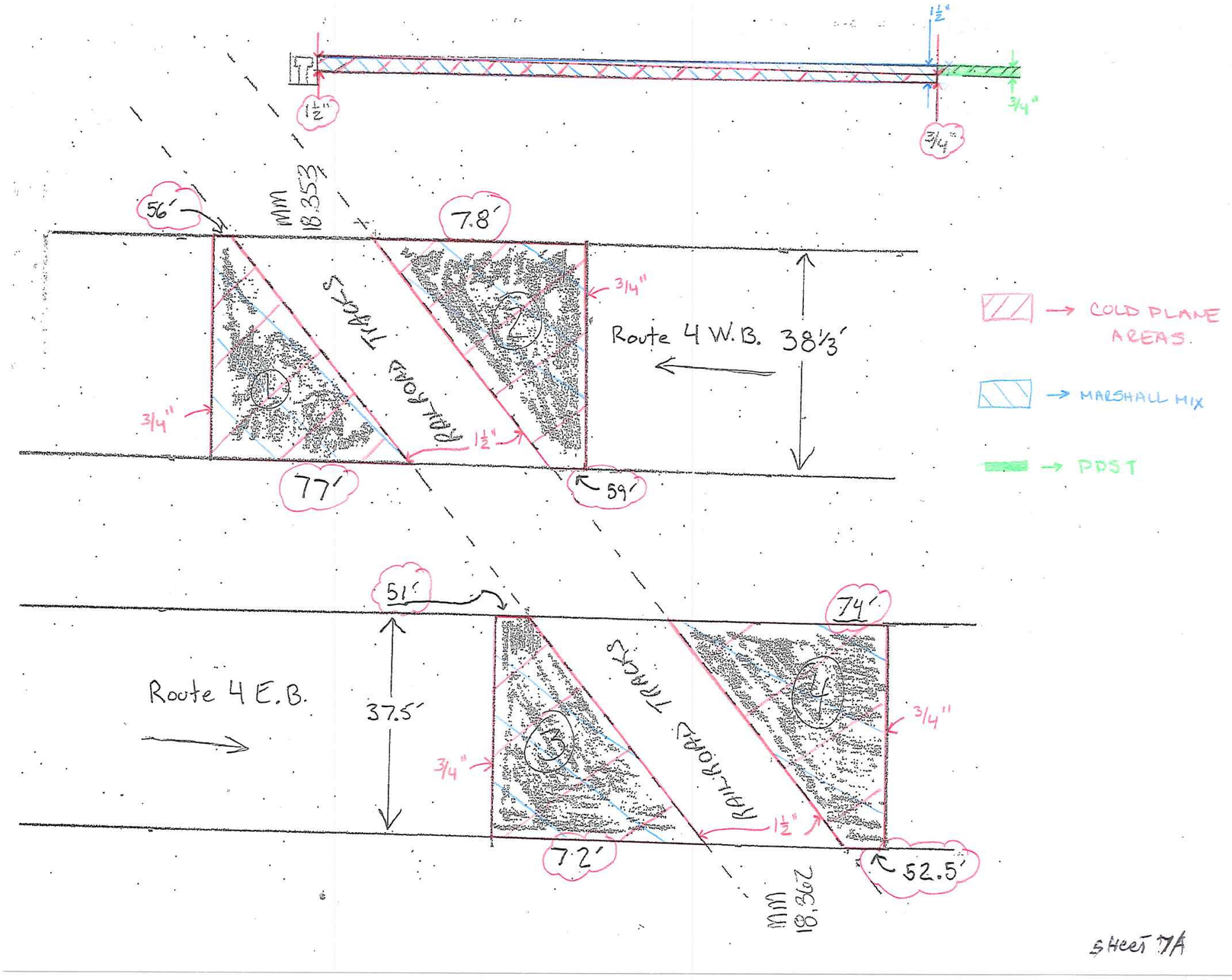
EXISTING BRIDGE JOINTS TO BE REPAIRED WITH ASPHALTIC PLUG JOINT

BRIDGE DETAIL SHEET

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
PROJECT NUMBER: NH SURF (22)

FILE NAME: 10b106/10b106.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
IPARM FILE NAME: 10B106#7.i

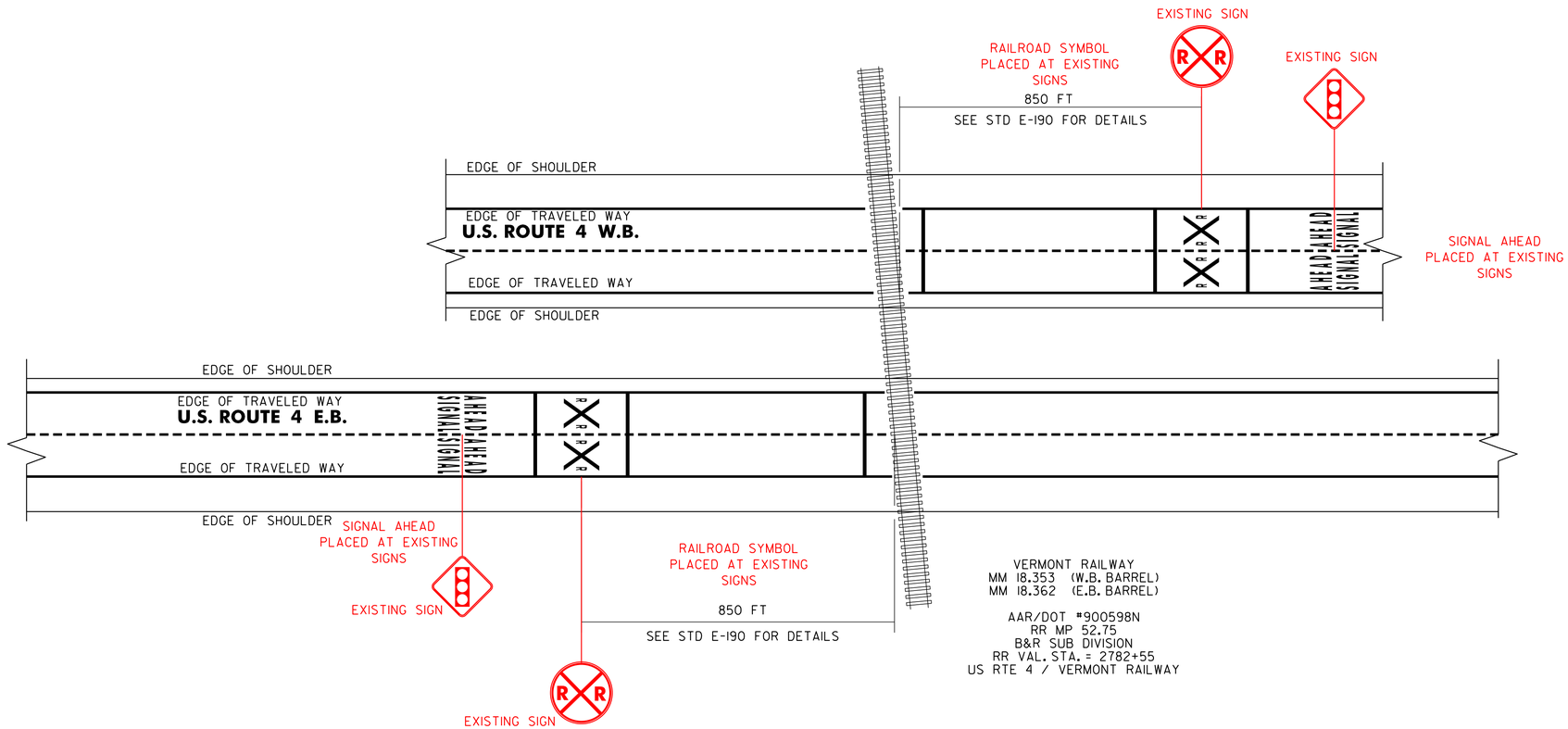
PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 7 OF 24

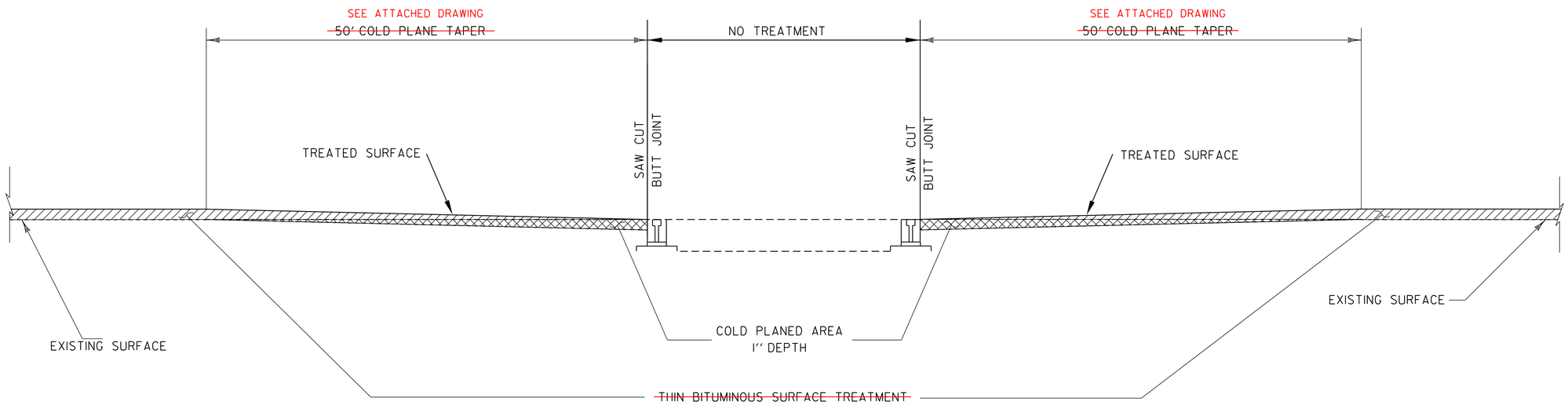


Sheet 7A

NOT TO SCALE

RAILROAD CROSSING DETAIL SHEET 7A	PROJECT NAME: FAIR HAVEN-RUTLAND TOWN PROJECT NUMBER: NH SURF(22)
FILE NAME: 10b106/10b106.dgn PROJECT LEADER: M. FOWLER DESIGNED BY: PVT. MGT. 10B106"8.i	PLOT DATE: 31-MAY-2013 11:55 DRAWN BY: S. SCHMITT CHECKED BY: PVT. MGT. SHEET 7A OF 24





RAIL – HIGHWAY CROSSING TREATMENT DETAIL

NOT TO SCALE

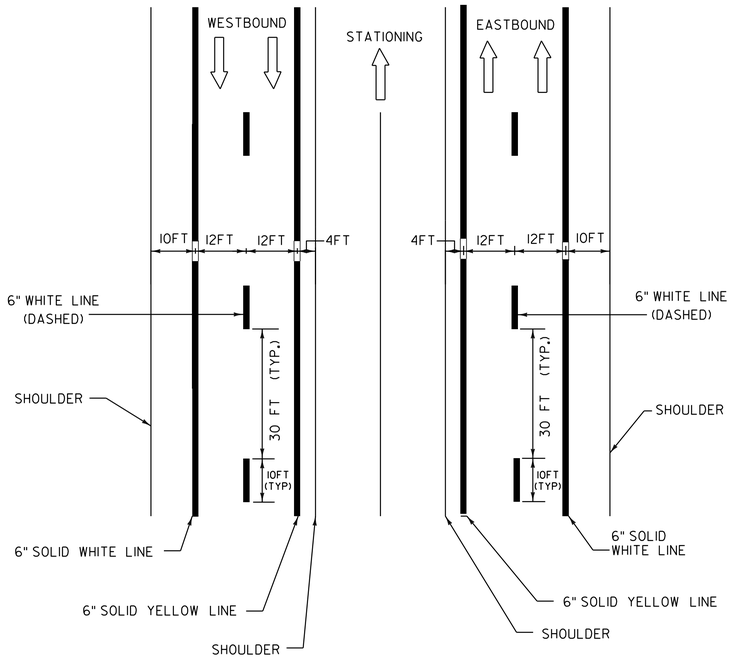
RAILROAD CROSSING DETAIL SHEET

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN

PROJECT NUMBER: NH SURF(22)

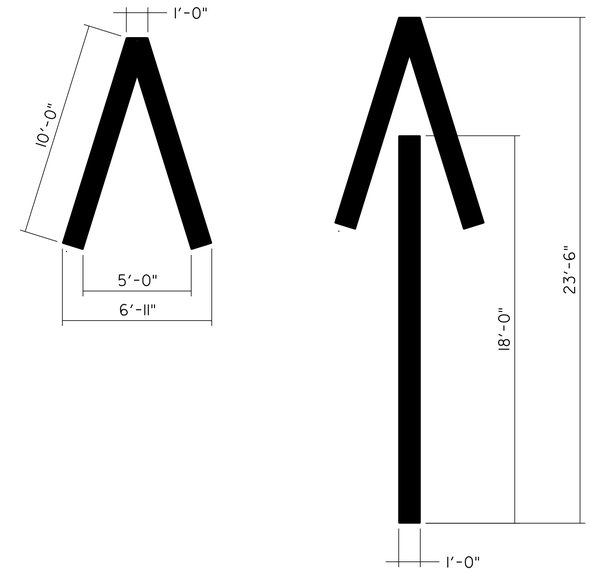
FILE NAME: 10b106/10b106.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
10B106*8.i

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 8 OF 24



PAVEMENT MARKING LINE DETAILS

SEE MAINLINE AND INTERCHANGE LAYOUT SHEETS FOR LOCATIONS AND MATERIALS



WRONG WAY ARROW DETAILS

TURN ARROWS SHALL BE PLACED AT THE BEGIN AND END OF THE LEFT OR RIGHT TURN LANE.

IF LANE LENGTH IS LESS THAN 100', TURN ARROWS SHOULD BE PLACED AT THE BEGINNING AND END OF THE LEFT OR RIGHT TURN LANE.

THE "ONLY" WORD MARKINGS SHALL BE USED TO SUPPLEMENT LANE-USE ARROW MARKINGS FOR TURN LANES 100' OR LONGER.

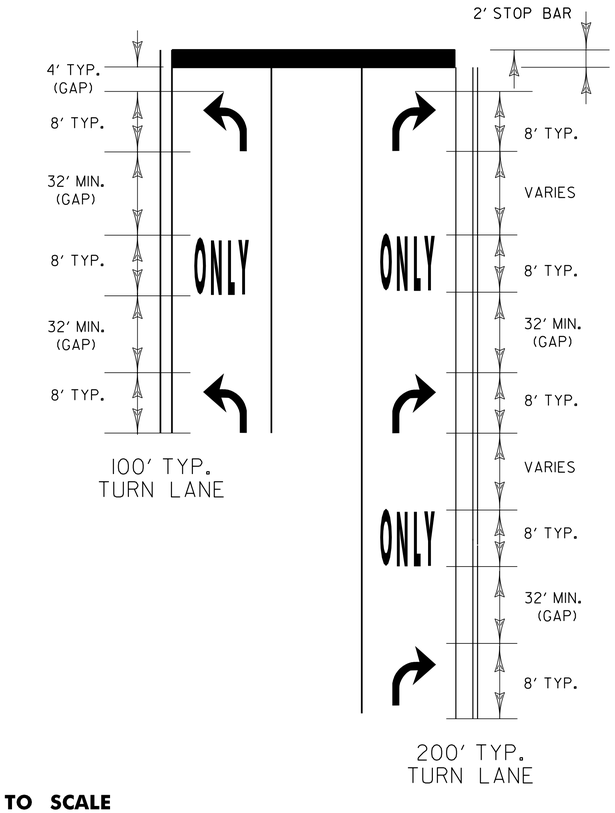
THE LONGITUDINAL SPACE BETWEEN WORD OR SYMBOL MESSAGE MARKINGS, SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEED ROADS, BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS UNDER ANY CONDITIONS.

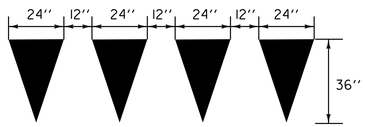
STOP BARS ARE INSTALLED ONLY WHERE A STOP SIGN OR TRAFFIC SIGNAL ARE LOCATED.

MORE ARROWS AND ONLYS ARE OPTIONAL WHEN SPACE PERMITS. ARROW MARKINGS START AT THE BEGINNING OF THE SOLID LANE LINE.

EXCLUSIVE TURN LANES (LEFT OR RIGHT) LANE LINES SHALL BE SOLID AND EXTEND BACK FROM THE STOP LINE TO THE POINT OF FULL LANE WIDTH OF THE TURN LANE. 3' DOTS WITH A 9' SPACE SHOULD BE EXTENDED THE FULL LENGTH OF THE LANE TAPER.

TYPICAL MARKINGS FOR TURN LANES

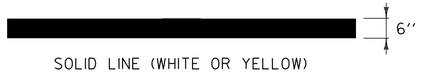




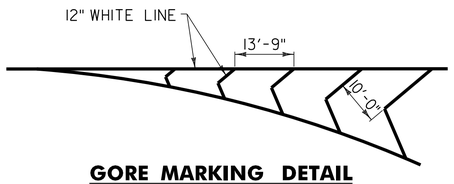
YIELD LINE DETAIL

EACH TRIANGLE SHALL BE PAID AS ONE EACH LETTER OR SYMBOL.

DOTTED LINE (WHITE) •



SOLID LINE (WHITE OR YELLOW)



GORE MARKING DETAIL

CHANNELIZING LINE (WHITE)

LEGEND

DIRECTION OF TRAFFIC FLOW

PAVEMENT MARKING LINE DETAILS

• TO BE INSTALLED AT THE DIRECTION OF THE RESIDENT ENGINEER

NOTES:
1. TWO (2) APPLICATIONS OF FINAL PAVEMENT MARKINGS WILL BE REQUIRED ON ALL ALTERNATIVE TREATMENTS. THE FIRST APPLICATION WILL BE IMMEDIATELY FOLLOWING PLACEMENT OF THE WEARING COURSE. THE SECOND AND FINAL APPLICATION WILL BE APPLIED NO SOONER THAN 15 SEPTEMBER 2012, AND NO LATER THAN 12 OCTOBER 2012.

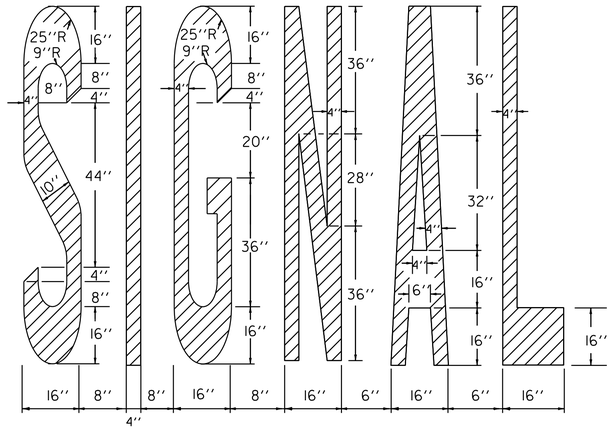
NOT TO SCALE

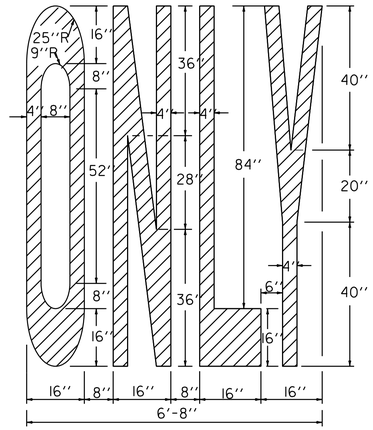
PAVEMENT MARKING DETAIL SHEET 1

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
PROJECT NUMBER: NH SURF (22)

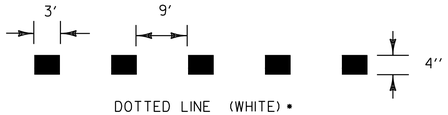
FILE NAME: 10b106/10b106.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
IPARM FILE NAME: 10B106*9.i

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 9 OF 24

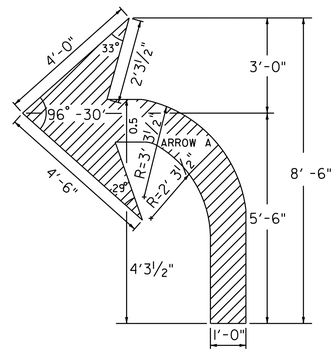


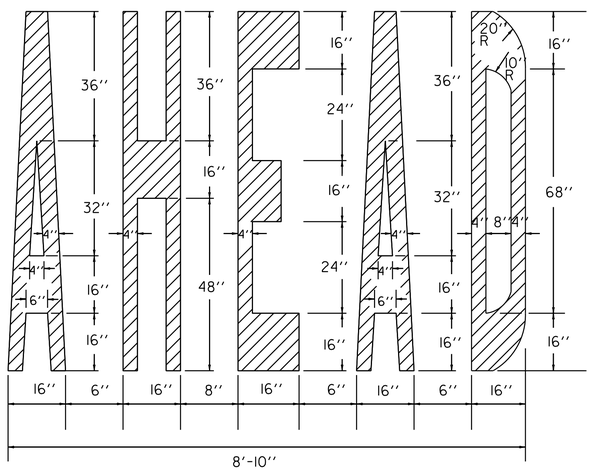


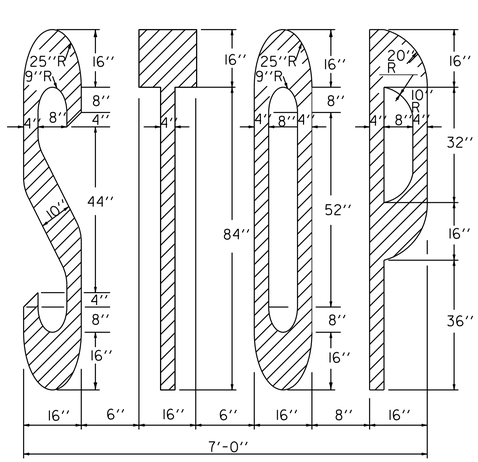
• TO BE INSTALLED ONLY AT THE DIRECTION OF THE RESIDENT ENGINEER

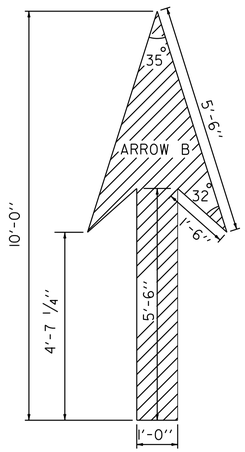


DOTTED LINE (WHITE) •









PAVEMENT MARKING DETAILS

ARROW DETAILS

NOT TO SCALE

PAVEMENT MARKING DETAIL SHEET 2	PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
	PROJECT NUMBER: NH SURF(22)
FILE NAME: 10b106/10b106.dgn	PLOT DATE: 31-MAY-2013 11:55
PROJECT LEADER: M. FOWLER	DRAWN BY: PVT. MGT.
DESIGNED BY: PVT. MGT.	CHECKED BY:
10b106*10.i.	SHEET 10 OF 24

646.26 24 INCH STOP BAR

STA. EI3+04
STA GI5+73

646.680 TEMPORARY 24 INCH STOP BAR

STA. EI3+04
STA GI5+73

646.30 LETTER OR SYMBOL

STA E9+00	WRONG WAY ARROW	(IEA.)
STA EI2+95	STOP	(4 EA.)
STA GII+I9	WRONG WAY ARROW	(IEA.)
STA GI5+68	STOP	(4 EA.)
STA G	STOP AHEAD	(9 EA.)
STA E	STOP AHEAD	(9 EA.)

646.690 TEMPORARY LETTER OR SYMBOL

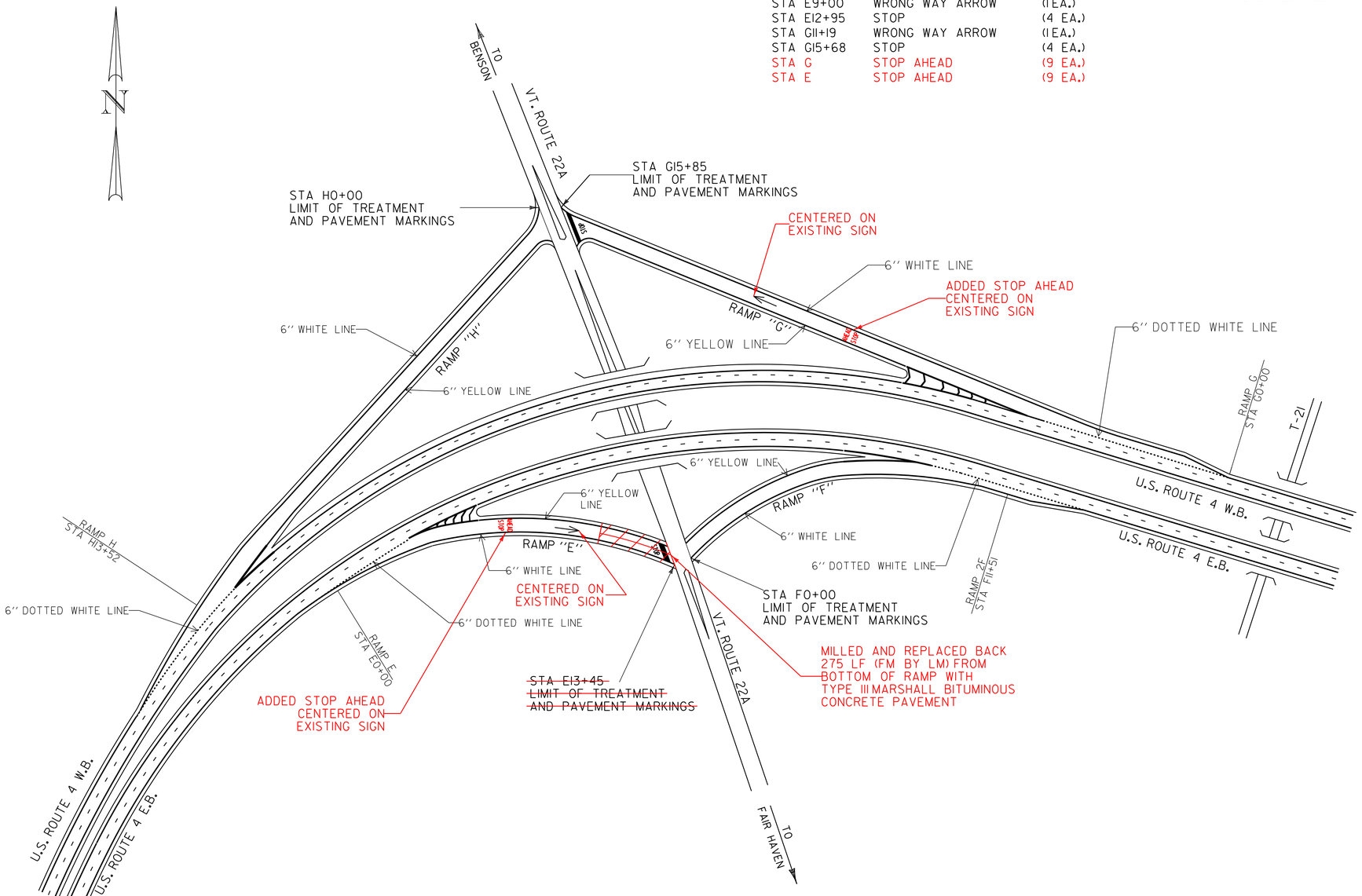
STA E9+00	WRONG WAY ARROW	(IEA.)
STA EI2+95	STOP	(4 EA.)
STA GII+I9	WRONG WAY ARROW	(IEA.)
STA GI5+68	STOP	(4 EA.)
STA G	STOP AHEAD	(9 EA.)
STA E	STOP AHEAD	(9 EA.)

646.24 I2 INCH WHITE LINE

GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.660 TEMPORARY I2 INCH WHITE LINE

GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD



NOT TO SCALE

INTERCHANGE NO. 2 PAVEMENT MARKING DETAIL SHEET

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
PROJECT NUMBER: NH SURF(22)

FILE NAME: I0BI06\I0BI06.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
I0BI06"II.I

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET II OF 24

646.26 24 INCH STOP BAR

STA. L12+24

646.680 TEMPORARY 24 INCH STOP BAR

STA. L12+24

646.24 12 INCH WHITE LINE

GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.660 TEMPORARY 12 INCH WHITE LINE

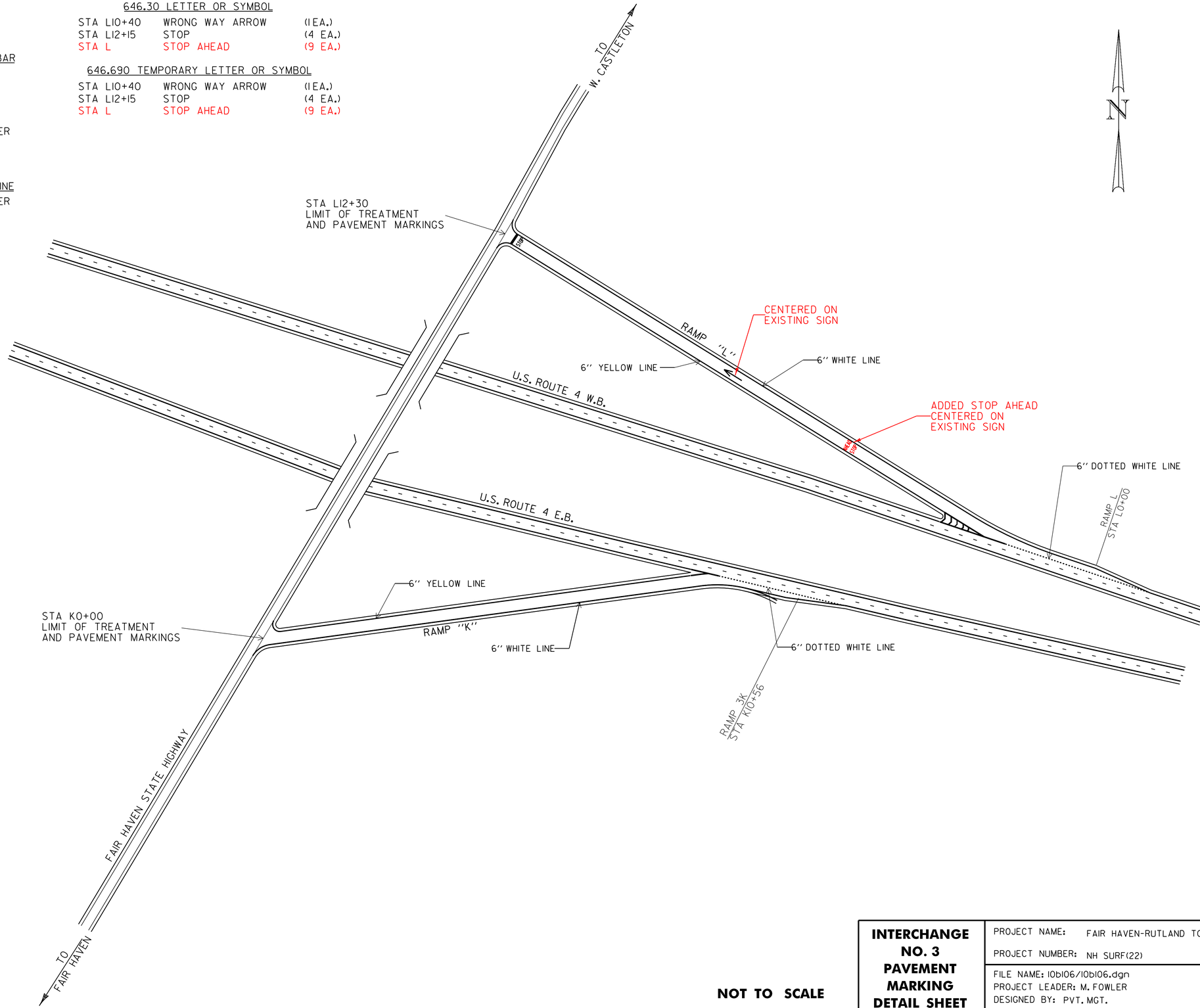
GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.30 LETTER OR SYMBOL

STA L10+40	WRONG WAY ARROW	(1 EA.)
STA L12+15	STOP	(4 EA.)
STA L	STOP AHEAD	(9 EA.)

646.690 TEMPORARY LETTER OR SYMBOL

STA L10+40	WRONG WAY ARROW	(1 EA.)
STA L12+15	STOP	(4 EA.)
STA L	STOP AHEAD	(9 EA.)



NOT TO SCALE

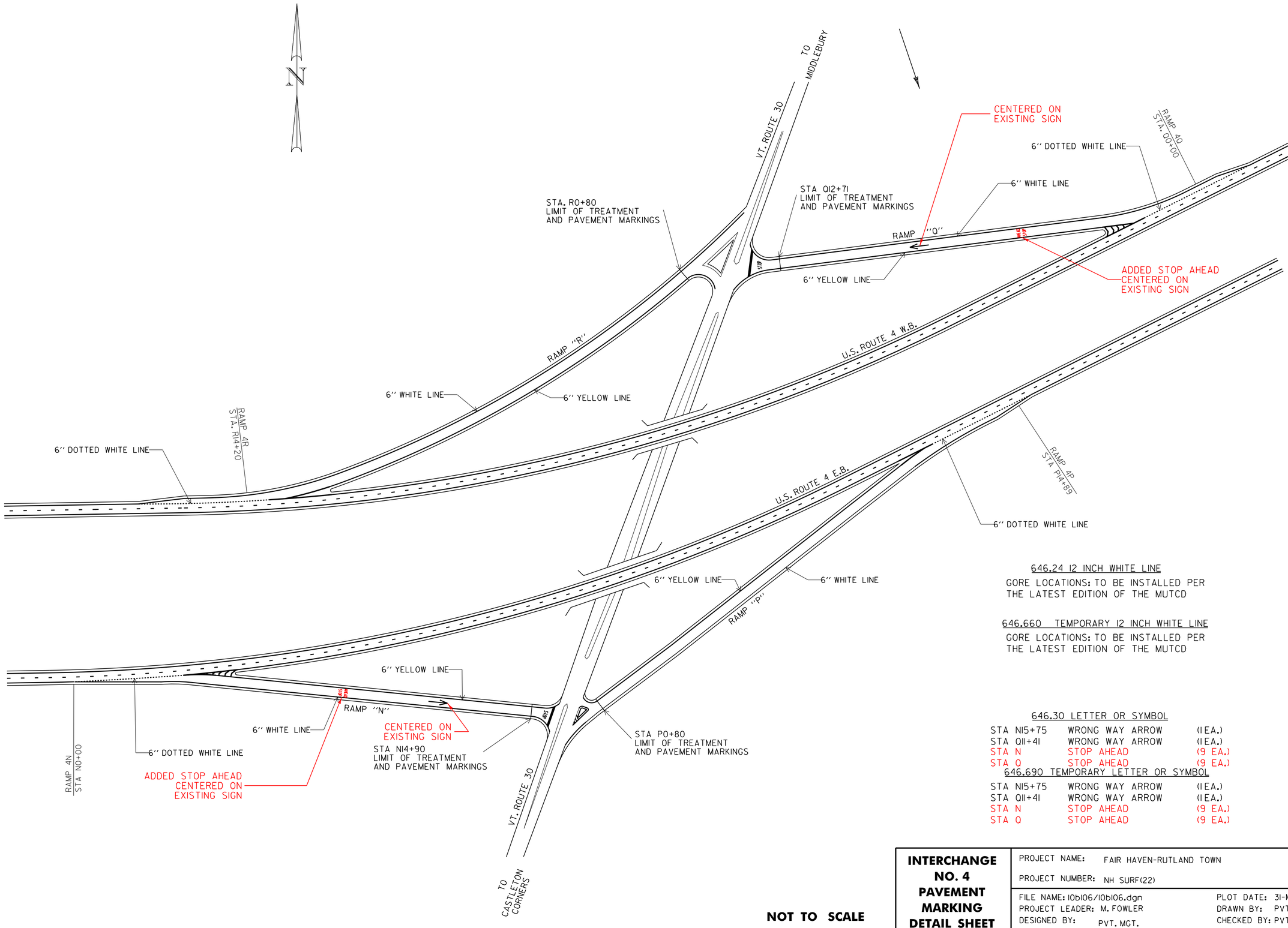
INTERCHANGE NO. 3 PAVEMENT MARKING DETAIL SHEET

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN

PROJECT NUMBER: NH SURF(22)

FILE NAME: 10b106/10b106.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
10B106#12.1

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 12 OF 24



646.24 12 INCH WHITE LINE

GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.660 TEMPORARY 12 INCH WHITE LINE

GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.30 LETTER OR SYMBOL

STA NI5+75	WRONG WAY ARROW	(1 EA.)
STA QII+41	WRONG WAY ARROW	(1 EA.)
STA N	STOP AHEAD	(9 EA.)
STA Q	STOP AHEAD	(9 EA.)

646.690 TEMPORARY LETTER OR SYMBOL

STA NI5+75	WRONG WAY ARROW	(1 EA.)
STA QII+41	WRONG WAY ARROW	(1 EA.)
STA N	STOP AHEAD	(9 EA.)
STA Q	STOP AHEAD	(9 EA.)

NOT TO SCALE

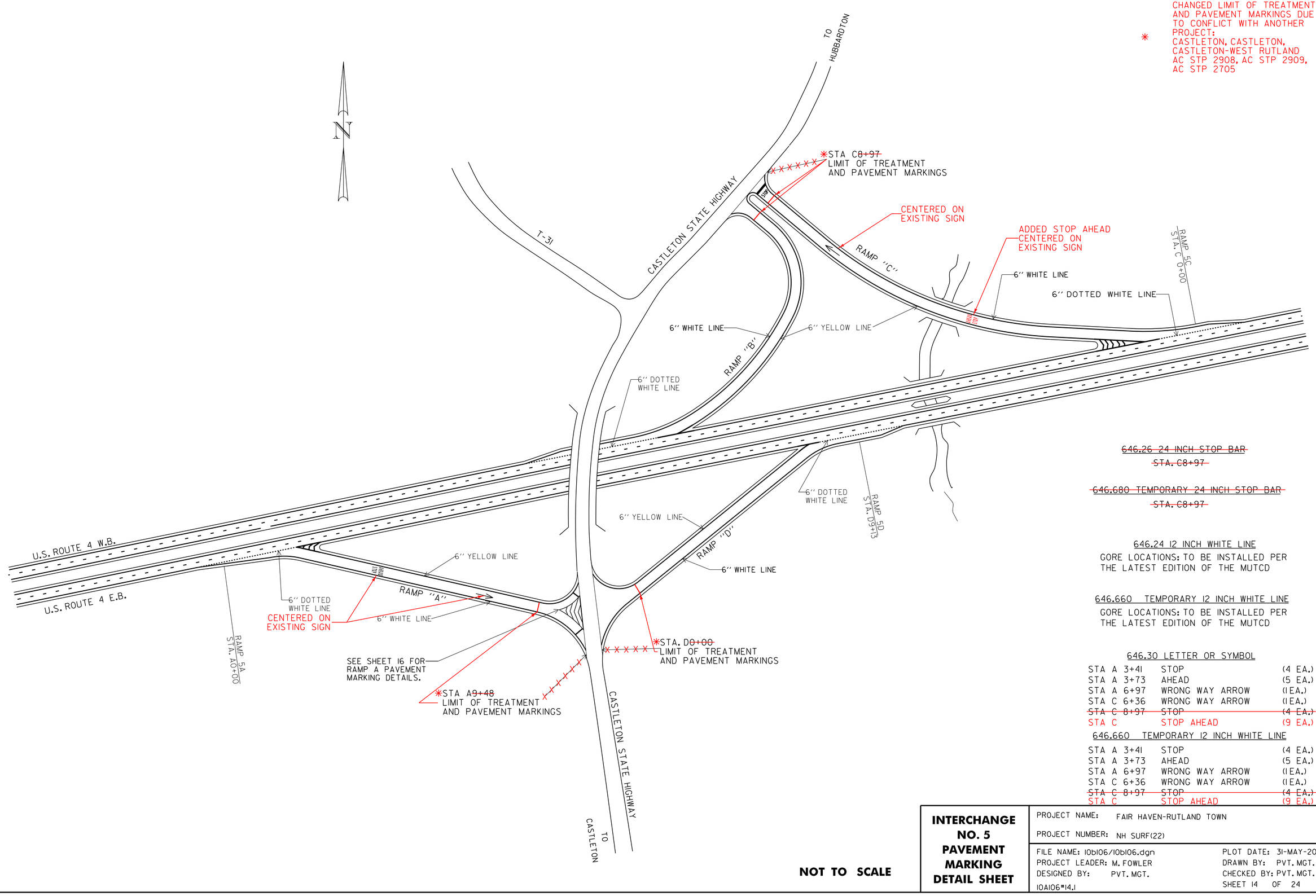
INTERCHANGE NO. 4 PAVEMENT MARKING DETAIL SHEET

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN

PROJECT NUMBER: NH SURF(22)

FILE NAME: 10b106/10b106.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
10A106#13.1

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 13 OF 24



* CHANGED LIMIT OF TREATMENT AND PAVEMENT MARKINGS DUE TO CONFLICT WITH ANOTHER PROJECT:
CASTLETON, CASTLETON, CASTLETON-WEST RUTLAND
AC STP 2908, AC STP 2909,
AC STP 2705

~~646.26 24 INCH STOP BAR~~
~~STA. C8+97~~

~~646.680 TEMPORARY 24 INCH STOP BAR~~
~~STA. C8+97~~

646.24 12 INCH WHITE LINE
GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.660 TEMPORARY 12 INCH WHITE LINE
GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.30 LETTER OR SYMBOL

STA A 3+41	STOP	(4 EA.)
STA A 3+73	AHEAD	(5 EA.)
STA A 6+97	WRONG WAY ARROW	(1 EA.)
STA C 6+36	WRONG WAY ARROW	(1 EA.)
~~STA C 8+97~~	~~STOP~~	~~(4 EA.)~~
STA C	STOP AHEAD	(9 EA.)

646.660 TEMPORARY 12 INCH WHITE LINE

STA A 3+41	STOP	(4 EA.)
STA A 3+73	AHEAD	(5 EA.)
STA A 6+97	WRONG WAY ARROW	(1 EA.)
STA C 6+36	WRONG WAY ARROW	(1 EA.)
~~STA C 8+97~~	~~STOP~~	~~(4 EA.)~~
STA C	STOP AHEAD	(9 EA.)

NOT TO SCALE

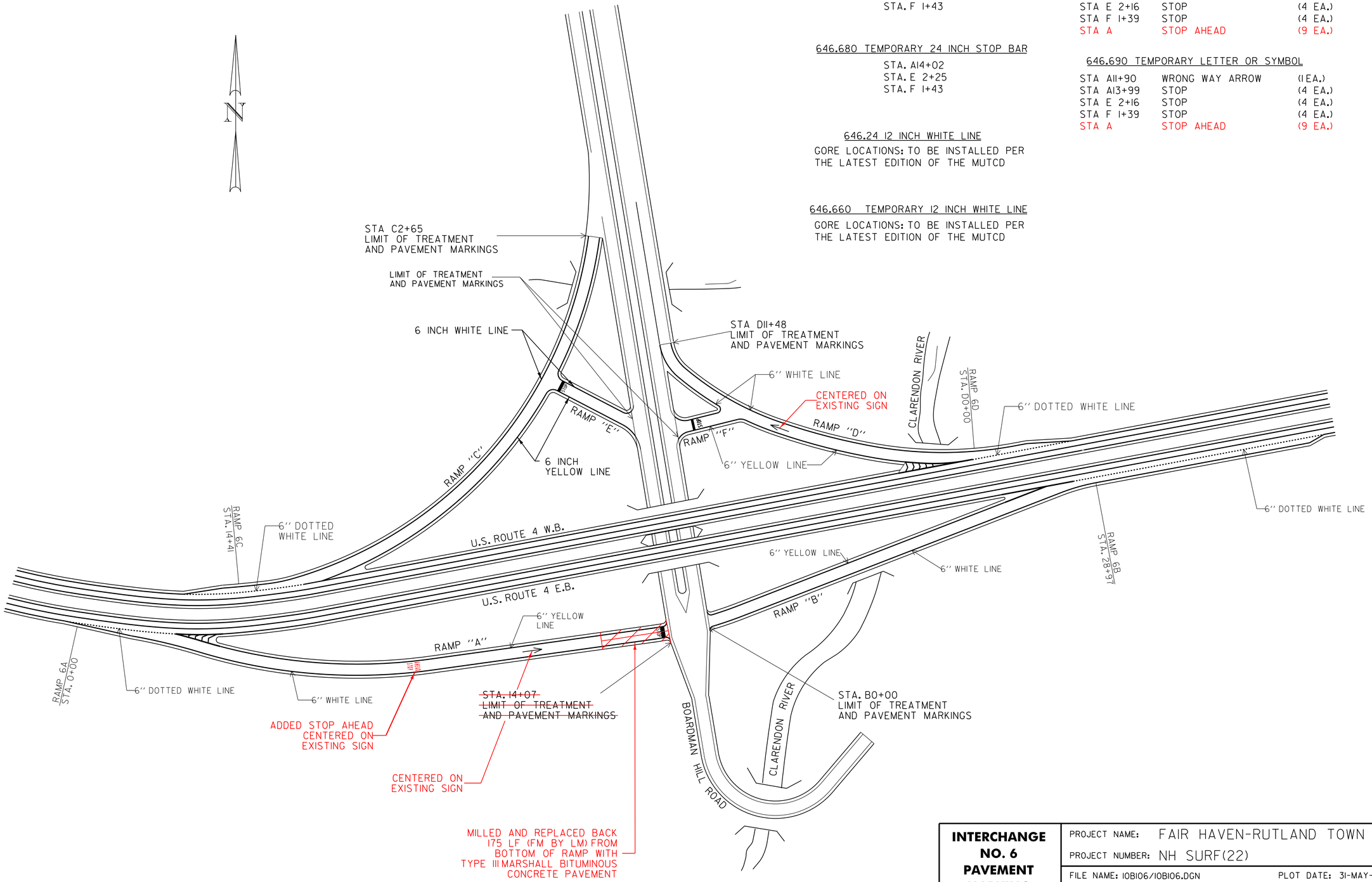
INTERCHANGE NO. 5 PAVEMENT MARKING DETAIL SHEET

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN

PROJECT NUMBER: NH SURF(22)

FILE NAME: 10b106/10b106.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
10A106"14.1

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 14 OF 24



646.26 24 INCH STOP BAR

STA. AI4+02
STA. E 2+25
STA. F I+43

646.680 TEMPORARY 24 INCH STOP BAR

STA. AI4+02
STA. E 2+25
STA. F I+43

646.24 I2 INCH WHITE LINE

GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.660 TEMPORARY I2 INCH WHITE LINE

GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.30 LETTER OR SYMBOL

STA AII+90	WRONG WAY ARROW	(I EA.)
STA AI3+99	STOP	(4 EA.)
STA E 2+I6	STOP	(4 EA.)
STA F I+39	STOP	(4 EA.)
STA A	STOP AHEAD	(9 EA.)

646.690 TEMPORARY LETTER OR SYMBOL

STA AII+90	WRONG WAY ARROW	(I EA.)
STA AI3+99	STOP	(4 EA.)
STA E 2+I6	STOP	(4 EA.)
STA F I+39	STOP	(4 EA.)
STA A	STOP AHEAD	(9 EA.)

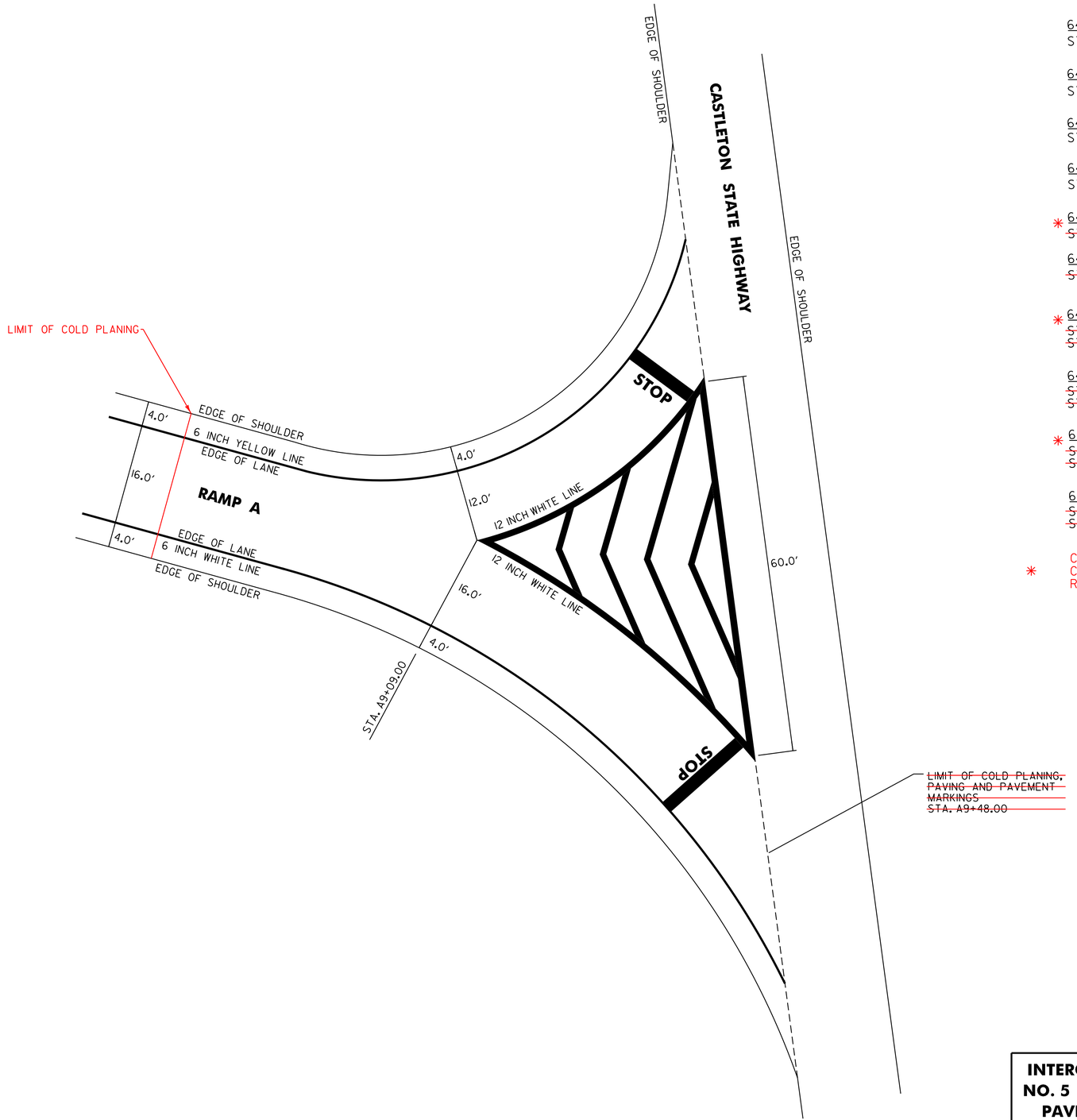
NOT TO SCALE

INTERCHANGE NO. 6 PAVEMENT MARKING DETAIL SHEET

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
PROJECT NUMBER: NH SURF(22)

FILE NAME: I0BI06/I0BI06.DGN
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
I0BI06"I5.I

PLOT DATE: 3I-MAY-2013 II:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET I5 OF 24



646.215 6 INCH YELLOW LINE
STA. A8+53.00 - STA. A9+48.00 SOLID LINE LT

646.630 TEMPORARY 6 INCH YELLOW LINE
STA. A8+53.00 - STA. A9+48.00 SOLID LINE LT

646.214 6 INCH WHITE LINE
STA. A8+53.00 - STA. A9+48.00 SOLID LINE LT

646.620 TEMPORARY 6 INCH WHITE LINE
STA. A8+53.00 - STA. A9+48.00 SOLID LINE RT

* 646.24 12 INCH WHITE LINE
~~STA. A9+09.00 - STA. A9+48.00 GORE LINES/HATCHING LT & RT~~

646.660 TEMPORARY 12 INCH WHITE LINE
~~STA. A9+09.00 - STA. A9+48.00 GORE LINES/HATCHING LT & RT~~

* 646.26 24 INCH STOP BAR
~~STA. A9+43.00 LT~~
~~STA. A9+43.00 RT~~

646.680 TEMPORARY 24 INCH STOP BAR
~~STA. A9+43.00 LT~~
~~STA. A9+43.00 RT~~

* 646.30 LETTER OR SYMBOL
~~STA. A9+34.00 LT, "S,T,O,P" (4 EA)~~
~~STA. A9+34.00 RT, "S,T,O,P" (4 EA)~~

646.690 TEMPORARY LETTER OR SYMBOL
~~STA. A9+34.00 LT, "S,T,O,P" (4 EA)~~
~~STA. A9+34.00 RT, "S,T,O,P" (4 EA)~~

* COMPLETED UNDER ANOTHER CONTRACT:
CASTLETON, CASTLETON, CASTLETON-WEST
RUTLAND: AC STP 2908, AC STP 2909, AC STP 2705

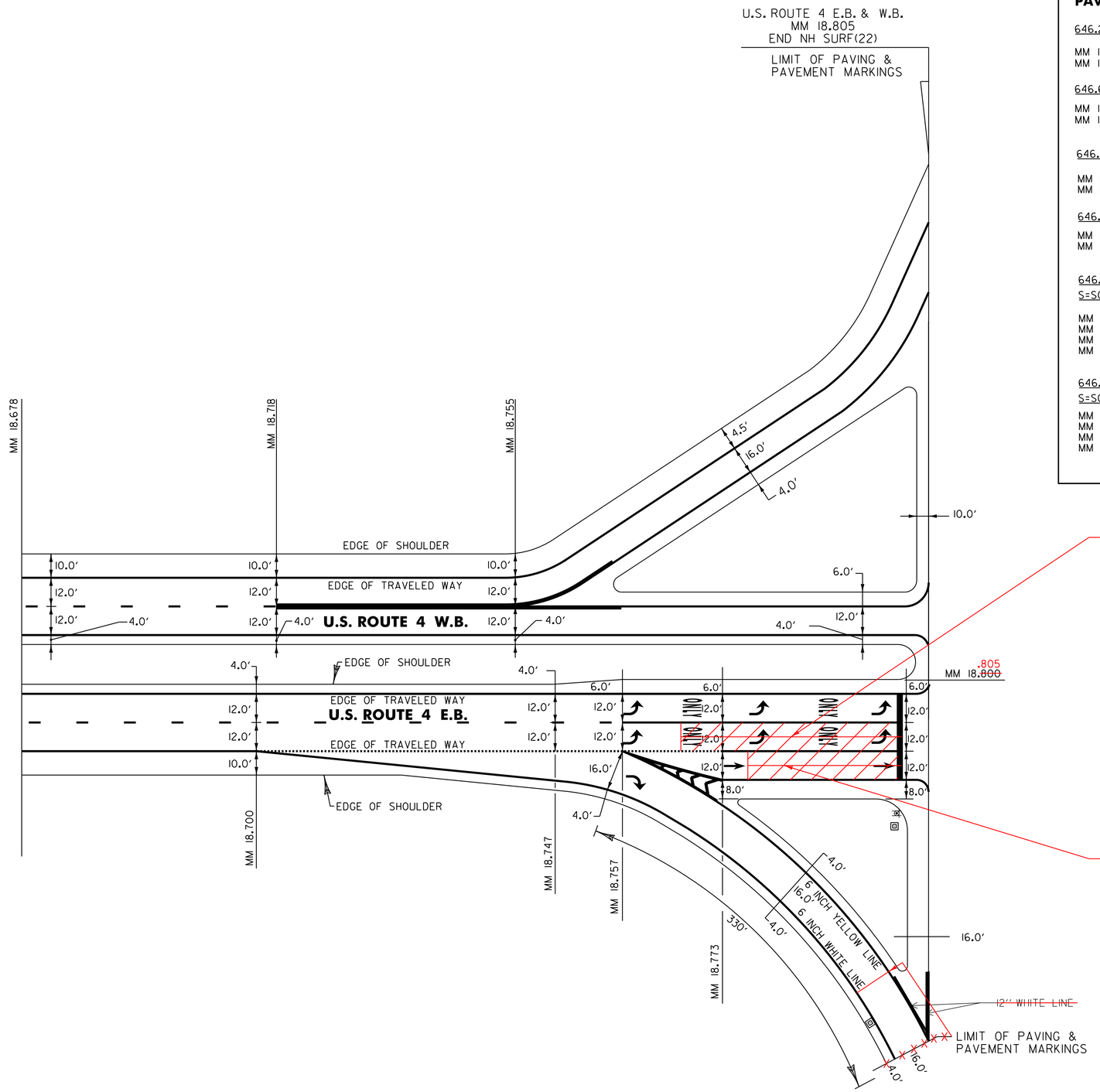
NOT TO SCALE

INTERCHANGE NO. 5 RAMP A PAVEMENT MARKING DETAIL SHEET

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
PROJECT NUMBER: NH SURF(22)

FILE NAME: 10B106/10B106.DGN
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
10B106"16.1

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 16 OF 24



PAVEMENT MARKINGS—WEST BOUND

646.215 6 INCH YELLOW LINE

MM 18.678 - MM 18.805 SOLID LINE 12.0' RT
MM 18.718 - MM 18.805 SOLID LINE (ON-RAMP)

646.630 TEMPORARY 6 INCH YELLOW LINE

MM 18.678 - MM 18.805 SOLID LINE 12.0' RT
MM 18.718 - MM 18.805 SOLID LINE (ON-RAMP)

646.24 12 INCH WHITE LINE

MM 18.718 - MM 18.755 C (GORE STRIPING)
MM 18.755 - MM 18.805 C & ℄ LT (GORE STRIPING)

646.660 TEMPORARY 12 INCH WHITE LINE

MM 18.718 - MM 18.755 C (GORE STRIPING)
MM 18.755 - MM 18.805 C & ℄ LT (GORE STRIPING)

646.214 6 INCH WHITE LINE
S=SOLID, D=DASHED

		LT	℄	RT
MM 18.678 - MM 18.718		-	D	-
MM 18.678 - MM 18.755		-	S	-
MM 18.755 - MM 18.805		SOLID LINE (ON-RAMP)		
MM 18.765 - MM 18.805		-	S	-

646.620 TEMPORARY 6 INCH WHITE LINE
S=SOLID, D=DASHED

		LT	℄	RT
MM 18.678 - MM 18.718		-	D	-
MM 18.678 - MM 18.755		-	S	-
MM 18.755 - MM 18.805		SOLID LINE (ON-RAMP)		
MM 18.765 - MM 18.805		-	S	-

PAVEMENT MARKINGS—EAST BOUND

646.215 6 INCH YELLOW LINE

MM 18.678 - MM 18.805 SOLID LINE LT
MM 18.773 - MM 18.805 SOLID LINE (OFF-RAMP)

646.630 TEMPORARY 6 INCH YELLOW LINE

MM 18.678 - MM 18.805 SOLID LINE LT
MM 18.773 - MM 18.805 SOLID LINE (OFF-RAMP)

646.26 24 INCH STOP BAR

MM 18.800

646.680 TEMPORARY 24 INCH STOP BAR

MM 18.800

646.30 LETTER OR SYMBOL

MM 18.758	LT, ARROW	(1 EA)
MM 18.758	RT, ARROW	(2 EA)
MM 18.773	RT, ARROW	(1 EA)
MM 18.775	LT, "O,N,L,Y"	(4 EA)
MM 18.775	RT, "O,N,L,Y"	(4 EA)
MM 18.783	LT, ARROW	(1 EA)
MM 18.783	RT, ARROW	(1 EA)
MM 18.791	LT, "O,N,L,Y"	(4 EA)
MM 18.791	RT, "O,N,L,Y"	(4 EA)
MM 18.799	RT, ARROW	(1 EA)
MM 18.799	LT, ARROW	(1 EA)
MM 18.799	RT, ARROW	(1 EA)

646.690 TEMPORARY LETTER OR SYMBOL

MM 18.758	LT, ARROW	(1 EA)
MM 18.758	RT, ARROW	(2 EA)
MM 18.773	RT, ARROW	(1 EA)
MM 18.783	LT, ARROW	(1 EA)
MM 18.783	RT, ARROW	(1 EA)
MM 18.798	RT, ARROW	(1 EA)
MM 18.799	LT, ARROW	(1 EA)
MM 18.799	RT, ARROW	(1 EA)

646.214 6 INCH WHITE LINE

MM 18.678 - MM 18.757	DASHED	℄
MM 18.768 - MM 18.700	SOLID LINE	3.6 m RT
MM 18.700 - MM 18.773	DOTTED LINE	3.6 m RT
MM 18.700 - MM 18.805	SOLID LINE (OFF-RAMP)	
MM 18.757 - MM 18.801	SOLID	℄
MM 18.773 - MM 18.801	SOLID LINE	3.6 m RT
MM 18.773 - MM 18.804	SOLID LINE	7.2 m RT

646.620 TEMPORARY 6 INCH WHITE LINE

MM 18.678 - MM 18.757	DASHED	℄
MM 18.678 - MM 18.700	SOLID LINE	3.6 m RT
MM 18.700 - MM 18.773	DOTTED LINE	3.6 m RT
MM 18.700 - MM 18.805	SOLID LINE (OFF-RAMP)	
MM 18.757 - MM 18.801	SOLID	℄
MM 18.773 - MM 18.801	SOLID LINE	3.6 m RT
MM 18.773 - MM 18.804	SOLID LINE	7.2 m RT

646.24 12 INCH WHITE LINE

MM 18.757 - MM 18.773 GORE LINES RT
MM 18.757 - MM 18.773 GORE HATCHING
~~MM 18.800 - MM 18.804 GORE LINES RT~~

646.660 TEMPORARY 12 INCH WHITE LINE

MM 18.757 - MM 18.773 GORE LINES RT
MM 18.757 - MM 18.773 GORE HATCHING
~~MM 18.800 - MM 18.804 GORE LINES RT~~

NOT TO SCALE

US 7 INTERCHANGE PAVEMENT MARKING DETAIL SHEET

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
PROJECT NUMBER: NH SURF(22)

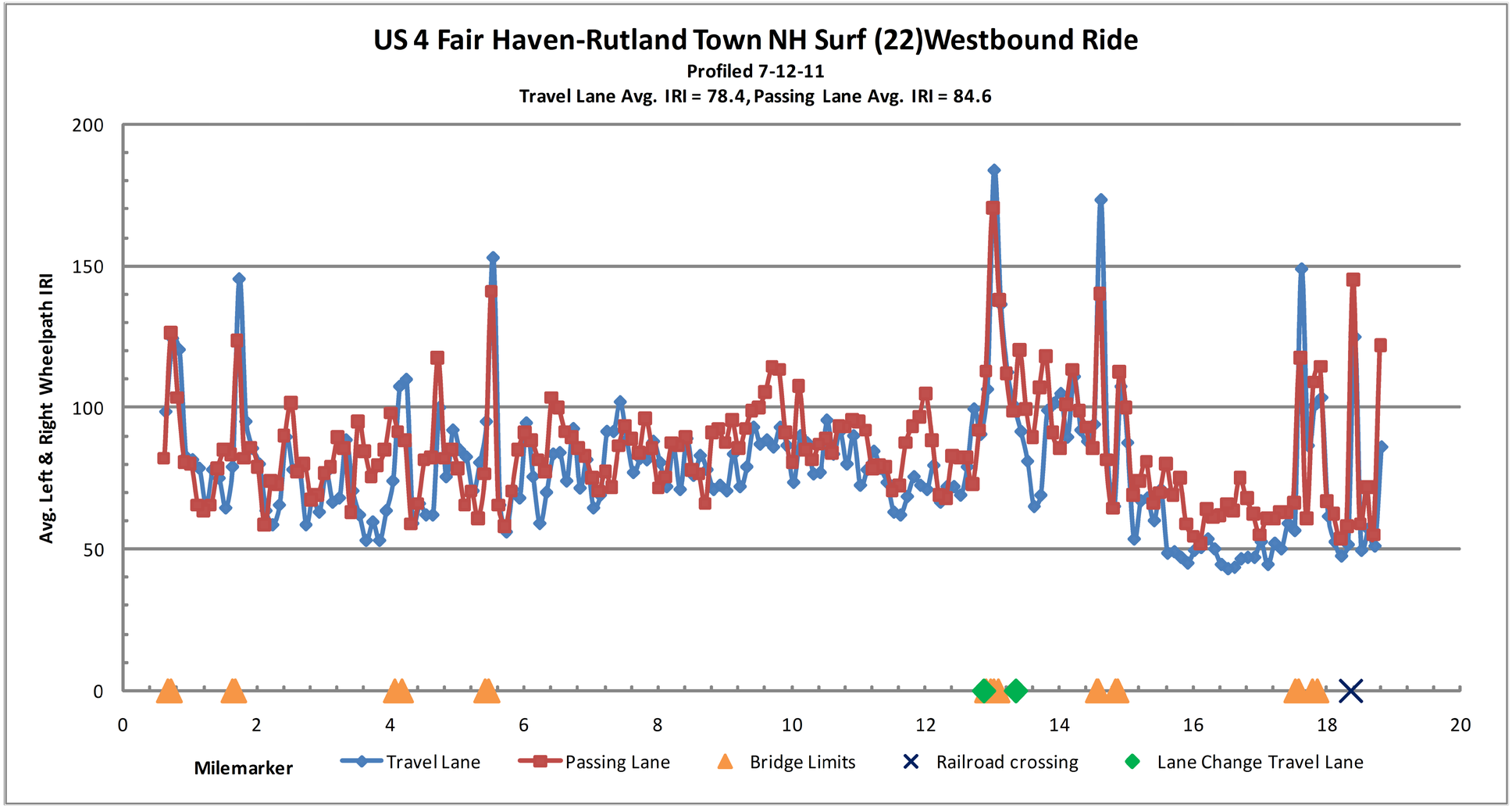
FILE NAME: 10B106/10B106.DGN
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
10B106"17.1

PLOT DATE: 31-MAY-2013 11:55
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 17 OF 24

US 4 Fair Haven-Rutland Town NH Surf (22)Westbound Ride

Profiled 7-12-11

Travel Lane Avg. IRI = 78.4, Passing Lane Avg. IRI = 84.6

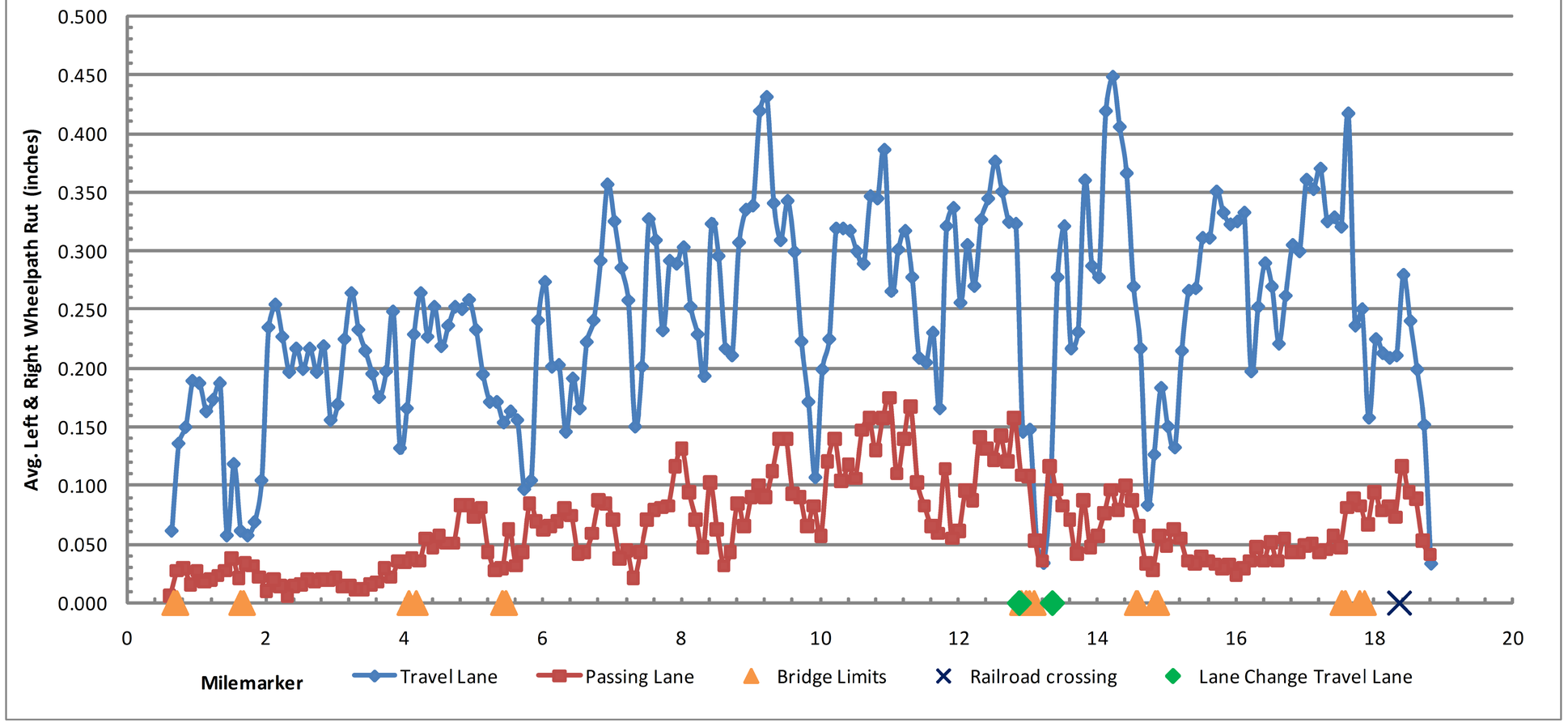


WESTBOUND ROUGHNESS DATA INFORMATION SHEET	PROJECT NAME: FAIR HAVEN-RUTLAND TOWN PROJECT NUMBER: NH SURF(22)
FILE NAME: 10B106/10B106.DGN PROJECT LEADER: M. FOWLER DESIGNED BY: PVT. MGT. 10B106*18.1	PLOT DATE: 31-MAY-2013 11:55 DRAWN BY: PVT. MGT. CHECKED BY: PVT. MGT. SHEET 18 OF 24

US 4 Fair Haven-Rutland Town NH Surf (22)Westbound Rut

Profiled 7-12-11

Travel Lane Avg. Rut = 0.242", Passing Lane Avg. Rut = 0.065"

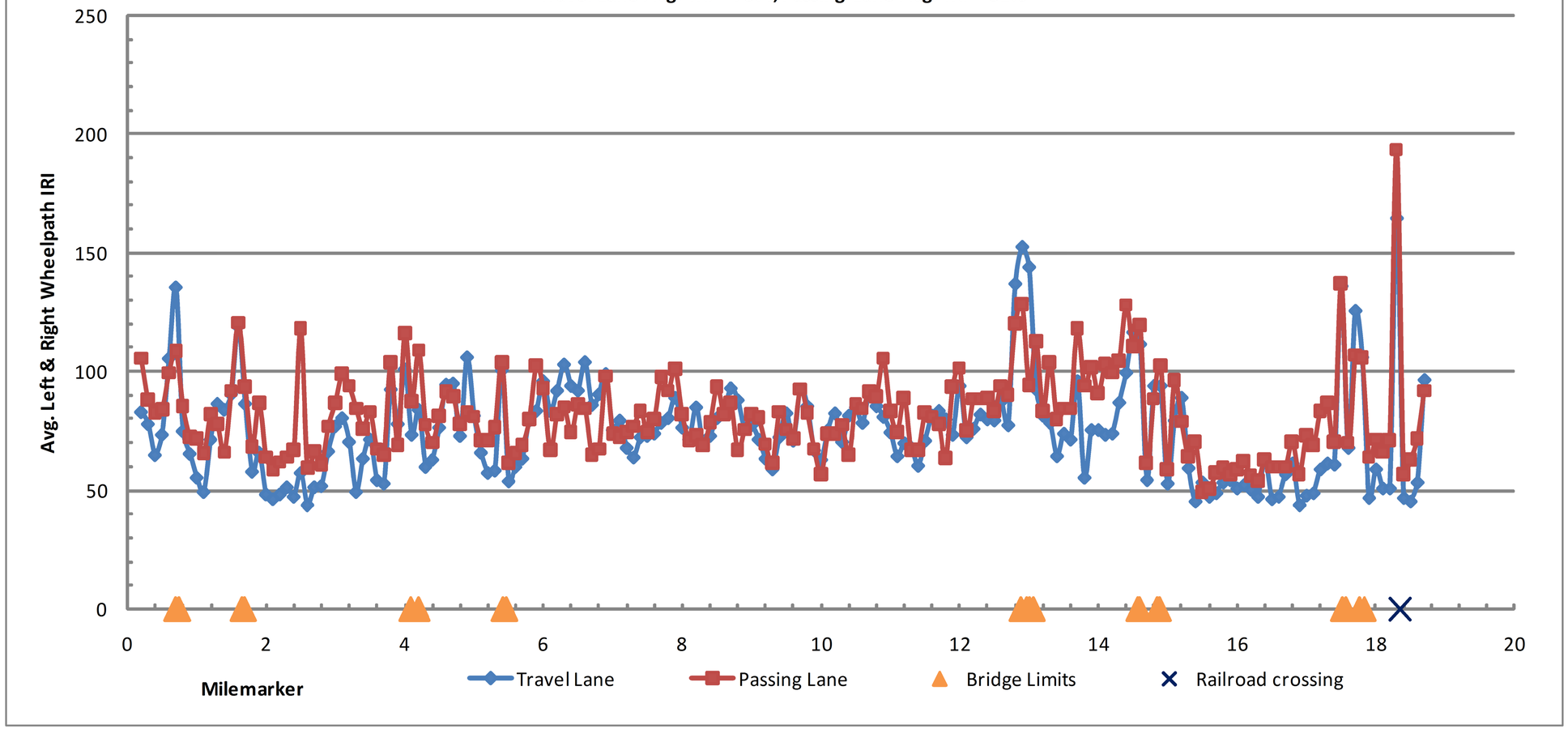


WESTBOUND RUT DATA INFORMATION SHEET	PROJECT NAME: FAIR HAVEN-RUTLAND TOWN PROJECT NUMBER: NH SURF(22)
FILE NAME: 10B106/10B106.DGN PROJECT LEADER: M. FOWLER DESIGNED BY: PVT. MGT. 10B106"19.1	PLOT DATE: 31-MAY-2013 11:55 DRAWN BY: PVT. MGT. CHECKED BY: PVT. MGT. SHEET 19 OF 24

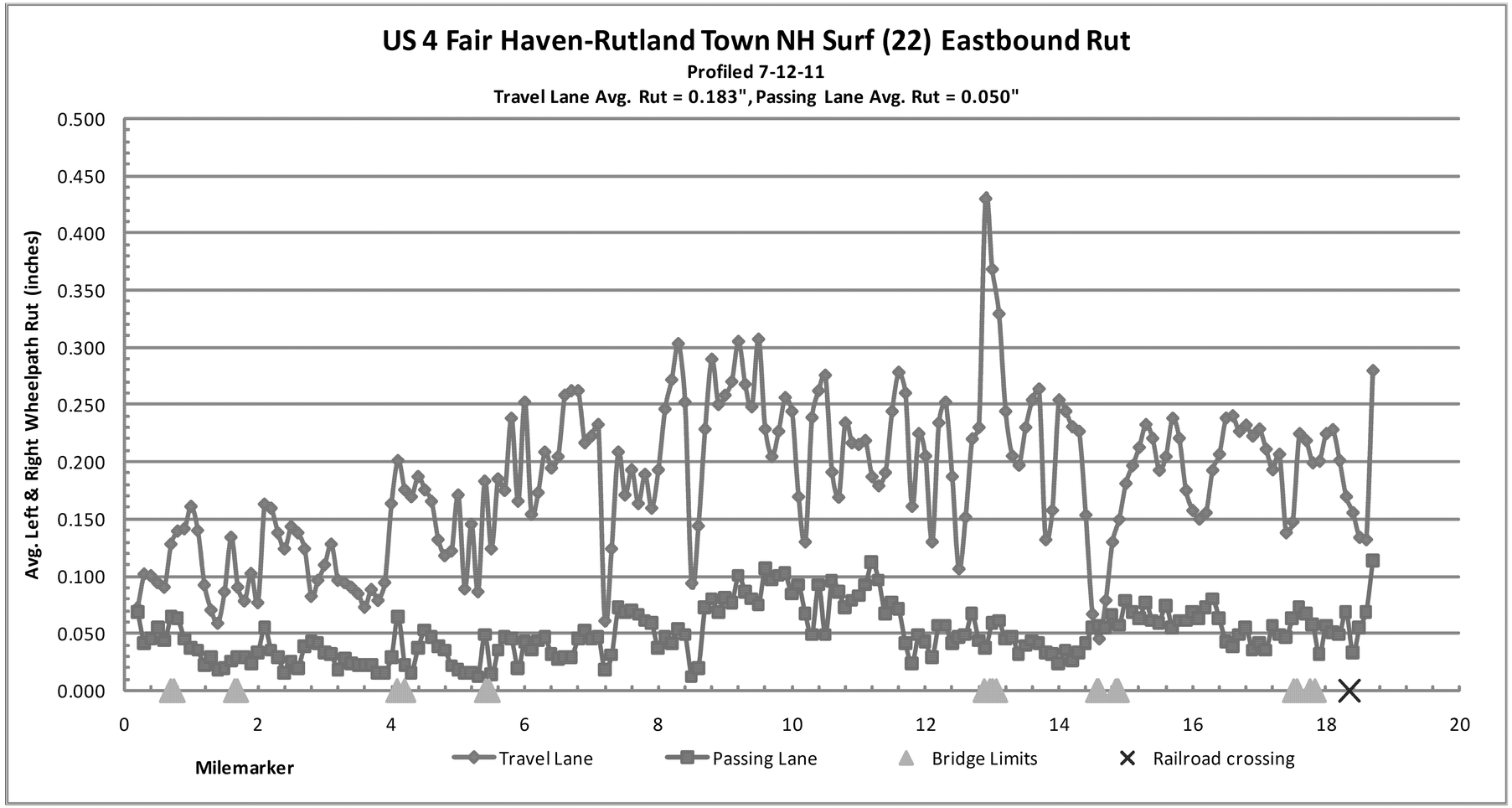
US 4 Fair Haven-Rutland Town NH Surf (22) Eastbound Ride

Profiled 7-12-11

Travel Lane Avg. IRI = 75.4, Passing Lane Avg. IRI = 81.9

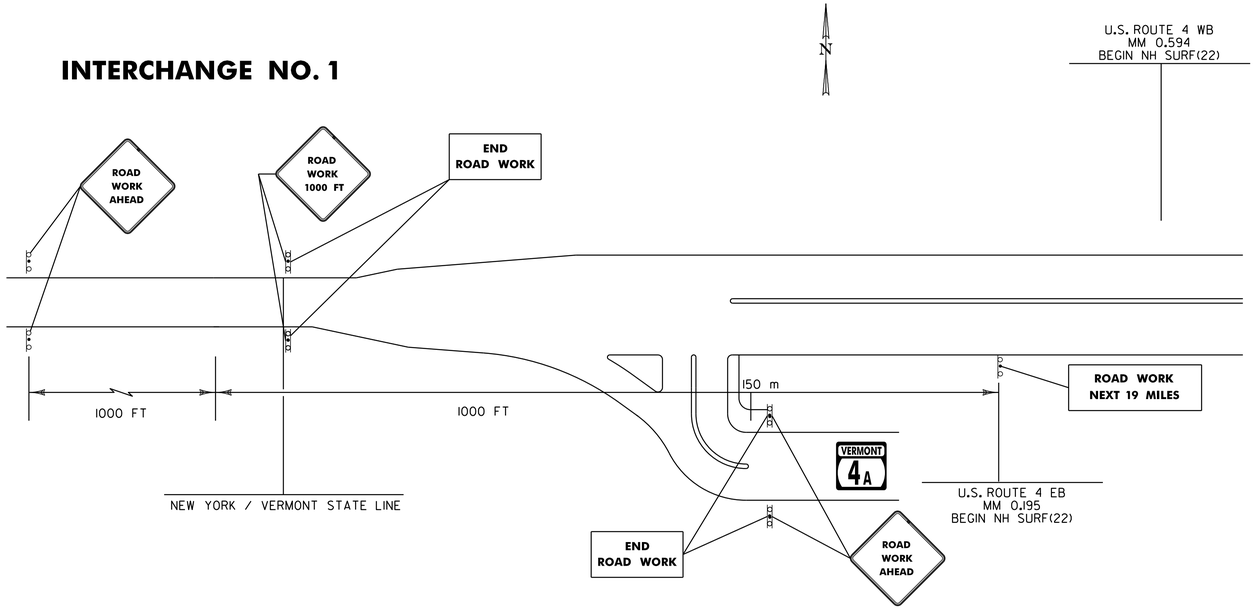


EASTBOUND ROUGHNESS DATA INFORMATION SHEET	PROJECT NAME: FAIR HAVEN-RUTLAND TOWN PROJECT NUMBER: NH SURF(22)
FILE NAME: 10BI06/10BI06.DGN PROJECT LEADER: M. FOWLER DESIGNED BY: PVT. MGT. 10BI06*20.I	PLOT DATE: 31-MAY-2013 11:56 DRAWN BY: PVT. MGT. CHECKED BY: PVT. MGT. SHEET 20 OF 24

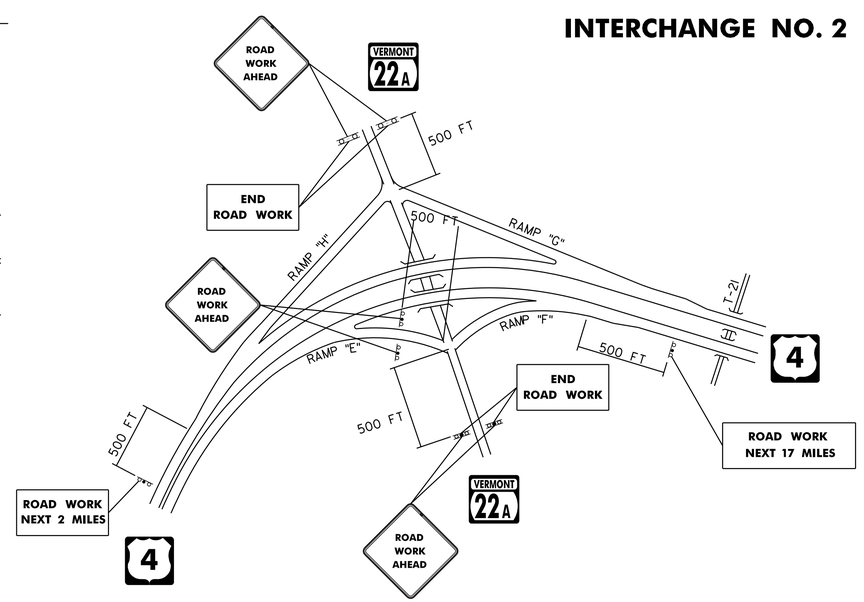


EASTBOUND RUT DATA INFORMATION SHEET	PROJECT NAME: FAIR HAVEN-RUTLAND TOWN PROJECT NUMBER: NH SURF(22)
FILE NAME: 10B106/10B106.DGN PROJECT LEADER: M. FOWLER DESIGNED BY: PVT. MGT. 10B106*21.1	PLOT DATE: 12-AUG-2011 DRAWN BY: PVT. MGT. CHECKED BY: PVT. MGT. SHEET 21 OF 24

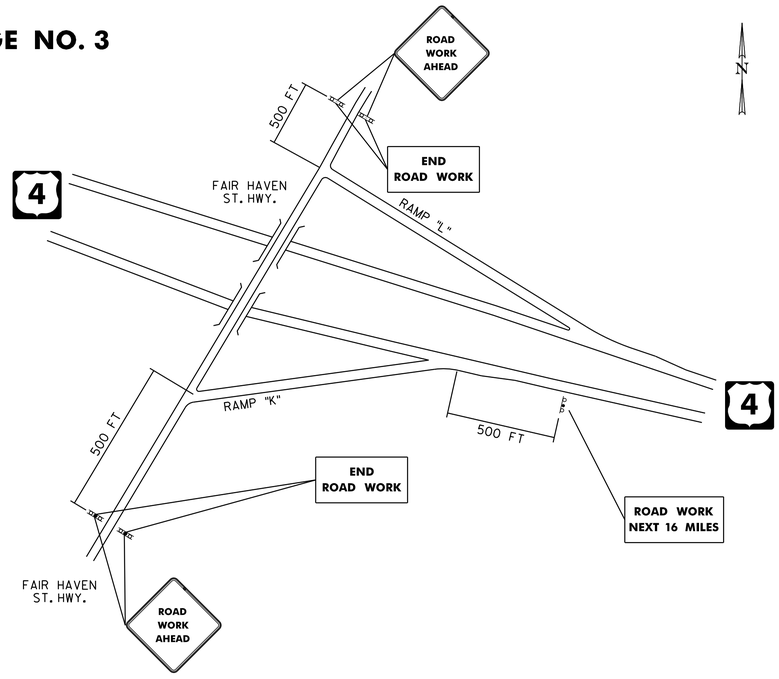
INTERCHANGE NO. 1



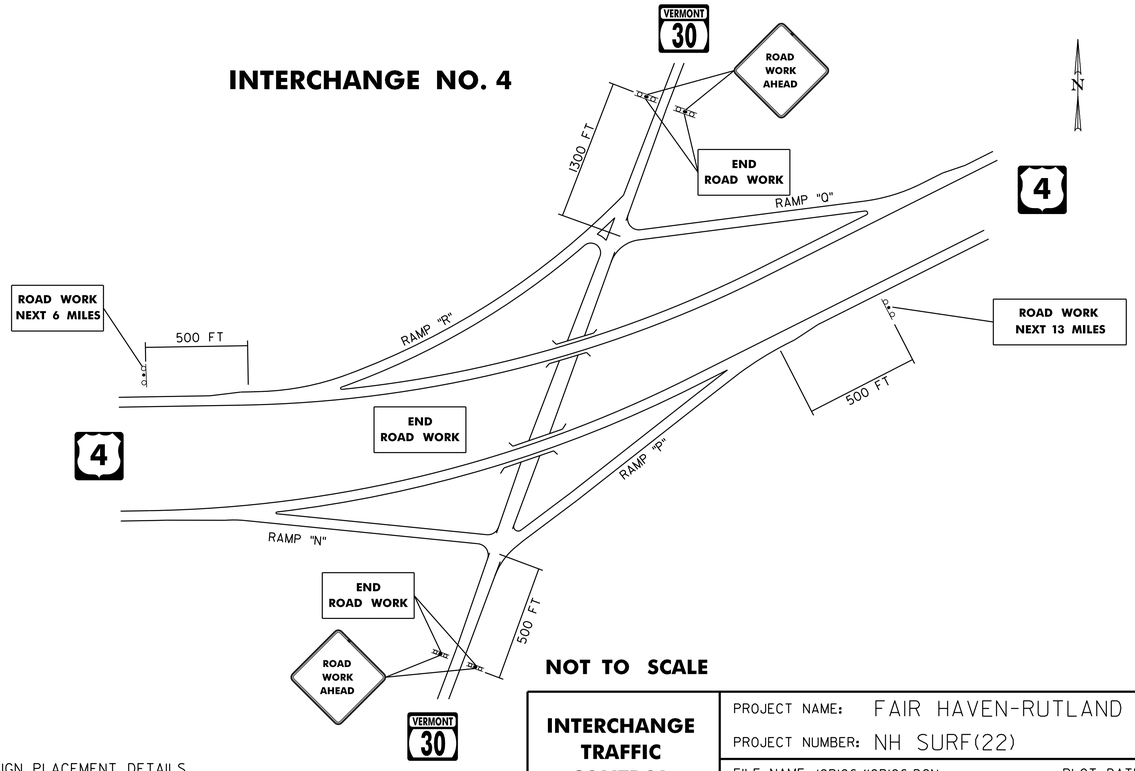
INTERCHANGE NO. 2



INTERCHANGE NO. 3



INTERCHANGE NO. 4



NOTE:
SEE STANDARD E-100 FOR ADDITIONAL SIGN PLACEMENT DETAILS

NOT TO SCALE

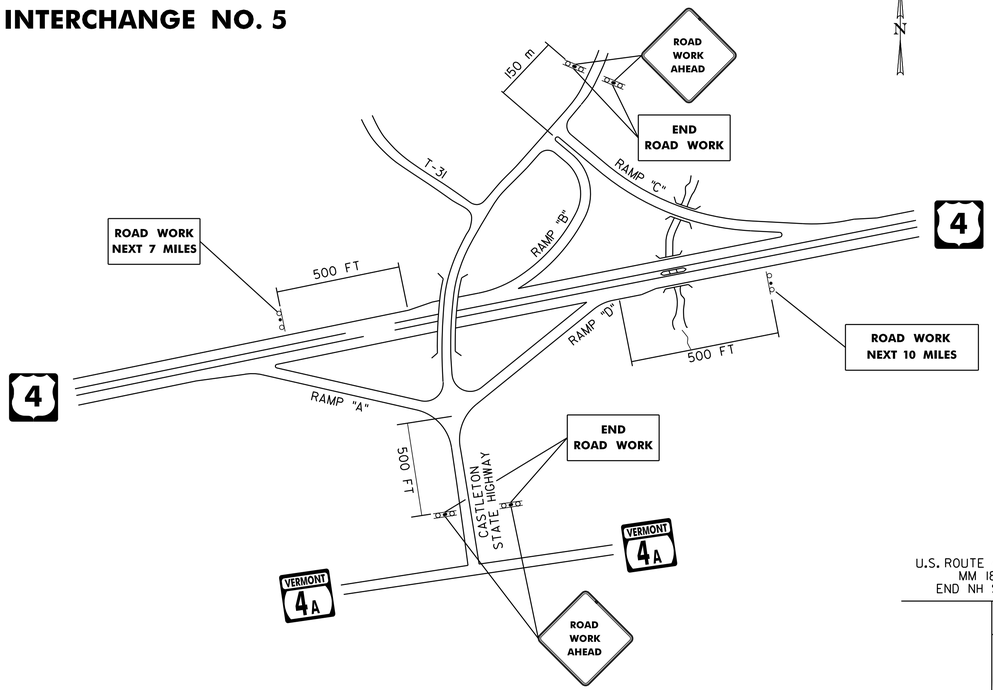
INTERCHANGE TRAFFIC CONTROL SHEET 1

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
PROJECT NUMBER: NH SURF(22)

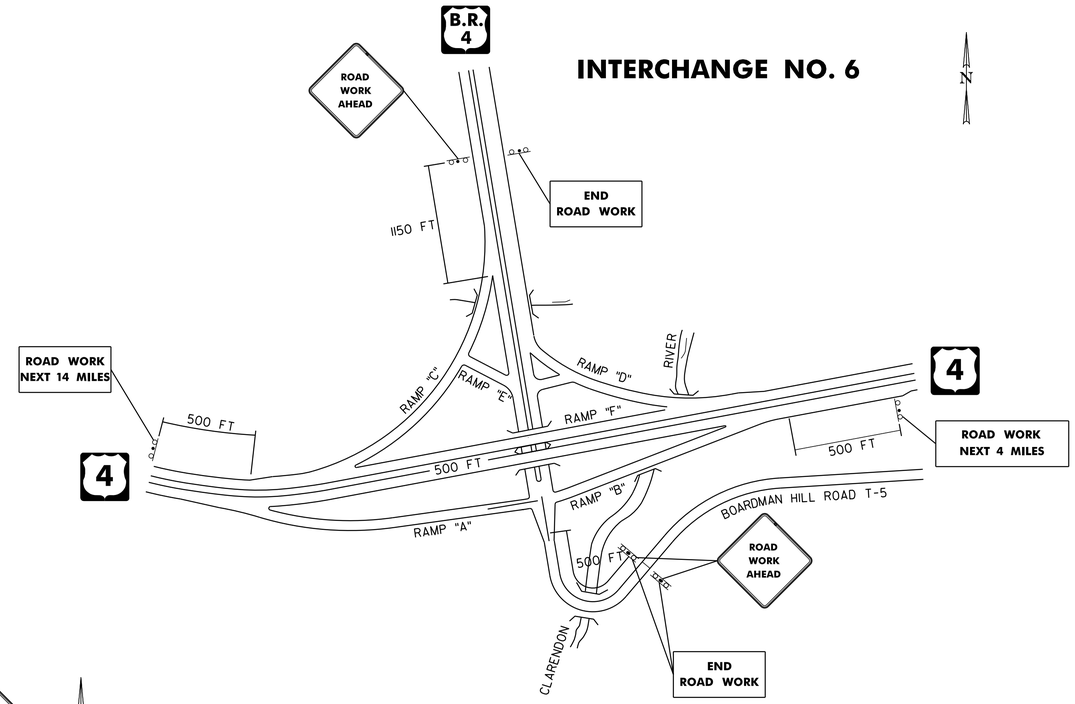
FILE NAME: 10B106/10B106.DGN
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
10B106*22.1

PLOT DATE: 31-MAY-2013 11:56
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 22 OF 24

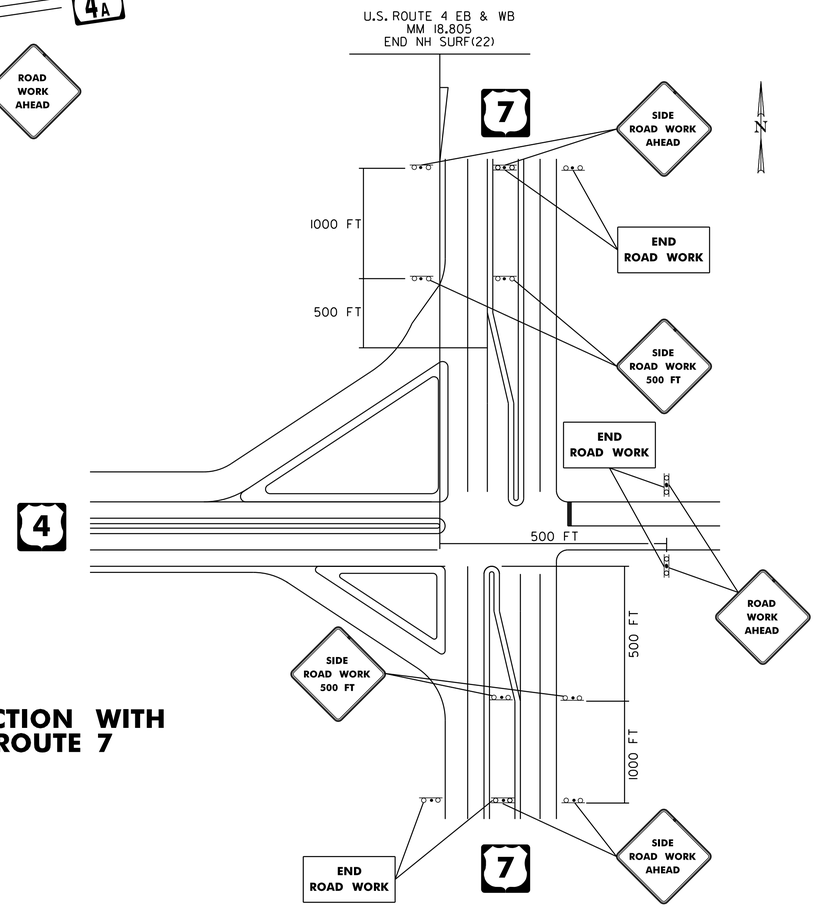
INTERCHANGE NO. 5



INTERCHANGE NO. 6



INTERSECTION WITH U.S. ROUTE 7



NOT TO SCALE

INTERCHANGE TRAFFIC CONTROL SHEET 2	PROJECT NAME: FAIR HAVEN-RUTLAND TOWN PROJECT NUMBER: NH SURF(22)
FILE NAME: 10B106/10B106.DGN PROJECT LEADER: M. FOWLER DESIGNED BY: PVT. MGT. 10B106"23.1	PLOT DATE: 31-MAY-2013 11:56 DRAWN BY: PVT. MGT. CHECKED BY: PVT. MGT. SHEET 23 OF 24

1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE RESIDENT ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES AND WORK ZONE SPEED REDUCTIONS IN COMPLIANCE WITH STANDARD E-103. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10, TRAFFIC CONTROL.

2. THE CONTRACTOR SHALL POSITION PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) WARNING MOTORISTS OF THE EXPECTED ROADWAY CONDITIONS AHEAD. THE MESSAGE TO BE DISPLAYED, AND THEIR PROPOSED LOCATIONS SHALL BE SUBMITTED TO THE RESIDENT ENGINEER IN ADVANCE FOR APPROVAL. THE COST OF PROVIDING THESE MESSAGE SIGNS SHALL BE PAID UNDER ITEM 641.15, PORTABLE CHANGEABLE MESSAGE SIGN.

3. THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, SHALL INCLUDE ALL OF THE FOLLOWING, AS NEEDED: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE FLASHING ARROW BOARDS, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VTRANS STANDARDS. ALL ADJUSTING, RELOCATING AND REMOVING OF THESE DEVICES AS DIRECTED BY THE RESIDENT ENGINEER SHALL ALSO BE INCLUDED.

4. THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS AND MARKING SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC DEVICES ARE ERECTED OR PLACED, OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED, THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH SUCH STANDARDS.

5. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.

6. ON VTRANS STANDARD E-103, SIGN W4-2 MAY BE REPLACED WITH W9-2.

7. SEE VAOT STANDARD E-100 FOR ADDITIONAL SIGN PLACEMENT DETAILS.

8. CONSTRUCTION ZONE SIGN LAYOUT SHALL BE IN ACCORDANCE WITH SECTION 6 OF THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

9. CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS AND SPECIAL PROVISIONS.

10. DIAMOND SHAPED SIGNS SHALL BE 4' X 4' WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.

11. RETROREFLECTIVE SHEETING SHALL BE TYPE III MINIMUM AS NOTED ON VAOT STANDARD E-100 AND IN THE SPECIAL PROVISIONS.

12. CONSTRUCTION ZONE SIGNS SHALL BE INSTALLED AS OUTLINED IN THE SPECIAL PROVISIONS.

13. WHERE TEMPORARY SIGNS ARE PLACED BEHIND GUARDRAIL, THEY SHALL BE ADJUSTED SUCH THAT THE BOTTOMS OF THE SIGNS ARE ONE FOOT ABOVE THE TOP OF GUARDRAIL.

14. AS THE PAVING OPERATION MOVES, FLAGGER SIGNS SHALL BE MOVED ACCORDINGLY. AT NO TIME SHOULD THE FLAGGER SYMBOL SIGN BE MORE THAN 1000 FEET FROM THE FLAGGER STATION. FLAGGER SIGNS SHALL BE COVERED OR TURNED AWAY FROM TRAFFIC WHEN FLAGGING OPERATIONS CEASE FOR LONGER THAN 10 MINUTES.

15. BARRELS AND CONES SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH.

16. FOR LANE CLOSURES GREATER THAN ½ MILE LONG, PLACE ONE TYPE III BARRICADE ACROSS THE CLOSED LANE AT 1500 FOOT INTERVALS.

17. TEMPORARY SPEED LIMIT SIGN ASSEMBLIES SHALL INCLUDE G20-5aP "WORK ZONE" PLAQUE.

NOT TO SCALE

TRAFFIC CONTROL NOTES SHEET

PROJECT NAME: FAIR HAVEN-RUTLAND

PROJECT NUMBER: NH SURF(22)

FILE NAME: 10B106/10B106.DGN
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
10B106*24.1

PLOT DATE: 31-MAY-2013 11:56
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 24 OF 24