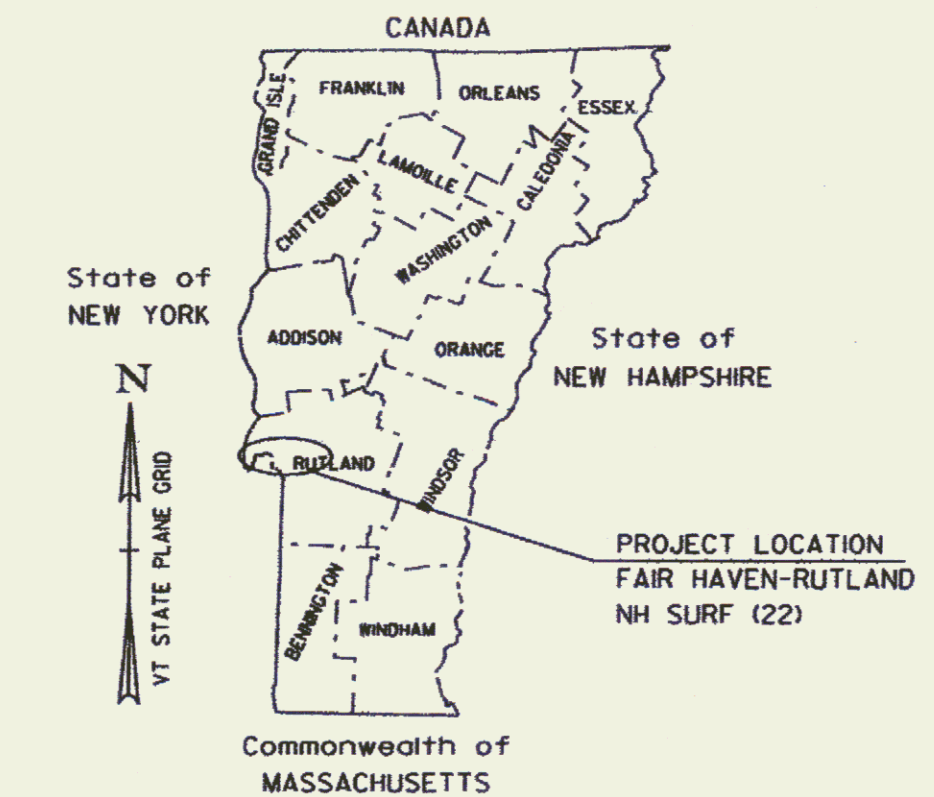


STATE OF VERMONT AGENCY OF TRANSPORTATION



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



INDEX OF SHEETS

1. TITLE SHEET
2. COMPOSITE NOTES SHEET
- 3.-4. TYPICAL SECTION SHEETS
- 5.-6. QUANTITY SHEETS
7. BRIDGE DETAIL SHEET
8. RAILROAD CROSSING DETAIL SHEET
- 9.-10. PAVEMENT MARKING DETAIL SHEETS
- 11.-17. INTERCHANGE PAVEMENT MARKING DETAIL SHEETS
- 18.-21. ROUGHNESS/RUT DATA INFORMATION SHEETS
- 22.-23. INTERCHANGE TRAFFIC CONTROL SHEETS
24. TRAFFIC CONTROL NOTES SHEET

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 CONSTRUCTION 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 I**

CONVENTIONAL SYMBOLS

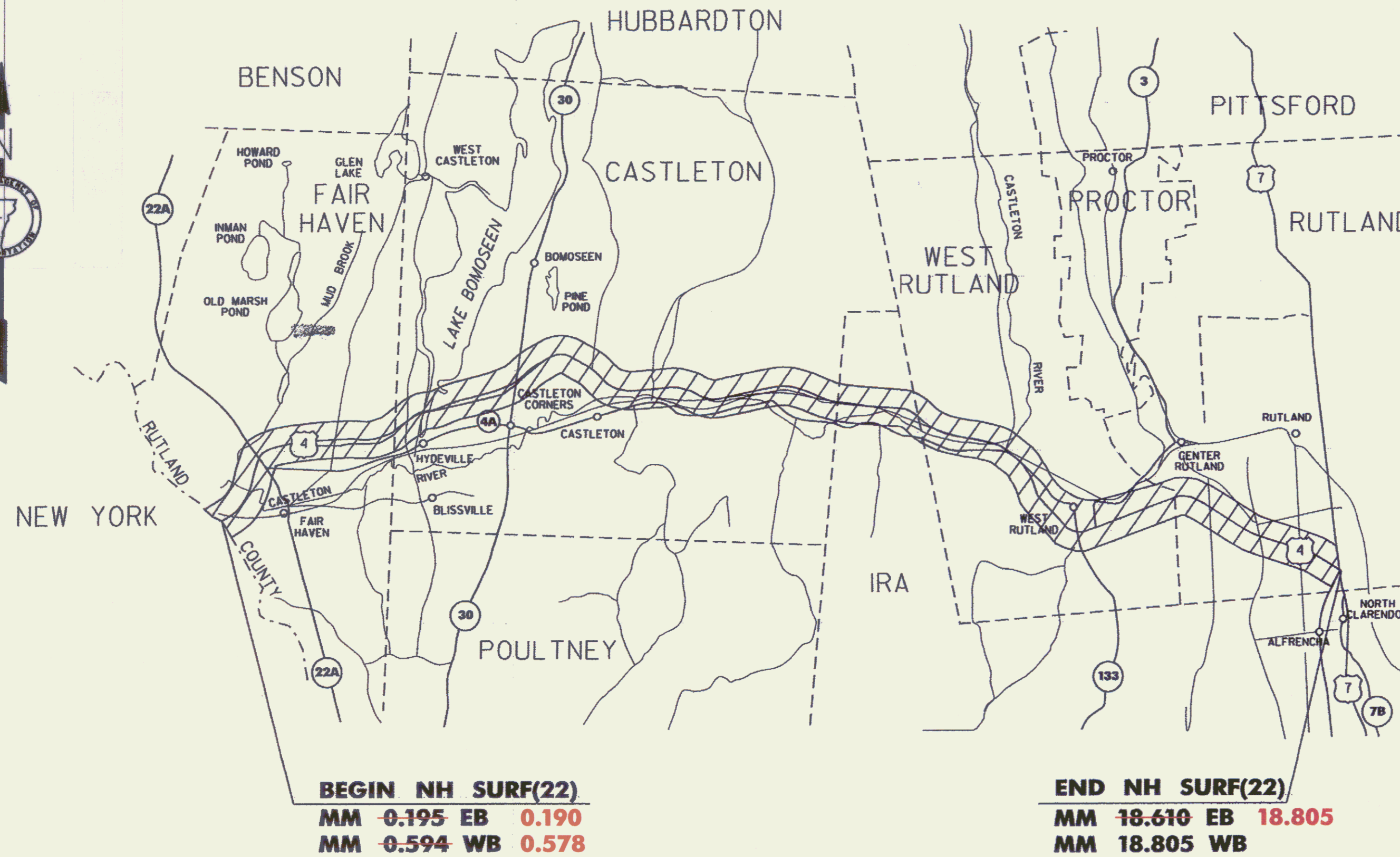
COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	

SURVEYED BY : N/A
 SURVEYED DATE : N/A
 DATUM
 VERTICAL N/A
 HORIZONTAL N/A

THIS PROJECT INCLUDES BOTH EASTBOUND AND WESTBOUND BARRELS. EB: MM 0.195 ~ MM 18.610; WB: MM 0.594 ~ 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 2011 ADT = 3900 2011 DHV = 500 2021 ADT = 4300 2021 DHV = 550	NY S/L - VT. RTE. 4A 2011 ADT = 3900 2011 DHV = 540 2021 ADT = 4300 2021 DHV = 600
2011 - 2021 CUM. ESALS = 2,973,000 2011 - 2031 CUM. ESALS = 7,081,000	2010 - 2020 CUM. ESALS = 2,779,000 2011 - 2031 CUM. ESALS = 6,597,000
VT. RTE. 4A - VT. 22A 2011 ADT = 3500 2011 DHV = 450 2021 ADT = 3800 2021 DHV = 490	VT. RTE. 4A - VT. 22A 2011 ADT = 3550 2011 DHV = 490 2021 ADT = 3800 2021 DHV = 530
2011 - 2021 CUM. ESALS = 2,291,000 2011 - 2031 CUM. ESALS = 5,130,000	2010 - 2020 CUM. ESALS = 2,325,000 2011 - 2031 CUM. ESALS = 5,213,000
VT. RTE. 22A - FSH 2011 ADT = 3100 2011 DHV = 400 2021 ADT = 3300 2021 DHV = 430	VT. RTE. 22A - FSH 2011 ADT = 3100 2011 DHV = 430 2021 ADT = 3300 2021 DHV = 460
2011 - 2021 CUM. ESALS = 1,334,000 2011 - 2031 CUM. ESALS = 3,152,000	2010 - 2020 CUM. ESALS = 4,132,000 2011 - 2031 CUM. ESALS = 13,802,000
FSH - VT. RTE. 30 2011 ADT = 4000 2011 DHV = 520 2021 ADT = 4300 2021 DHV = 550	FSH - VT. RTE. 30 2011 ADT = 4000 2011 DHV = 560 2021 ADT = 4300 2021 DHV = 600
2011 - 2021 CUM. ESALS = 1,690,000 2011 - 2031 CUM. ESALS = 3,648,000	2011 - 2021 CUM. ESALS = 2,292,000 2011 - 2031 CUM. ESALS = 4,799,000
VT. RTE. 30 - CSH 2011 ADT = 5700 2011 DHV = 740 2021 ADT = 6000 2021 DHV = 770	VT. RTE. 30 - CSH 2011 ADT = 5700 2011 DHV = 790 2021 ADT = 6000 2021 DHV = 830
2011 - 2021 CUM. ESALS = 2,014,000 2011 - 2031 CUM. ESALS = 4,851,000	2011 - 2021 CUM. ESALS = 1,466,000 2011 - 2031 CUM. ESALS = 3,500,000
CSH - BR US 4 2011 ADT = 6800 2011 DHV = 730 2021 ADT = 7400 2021 DHV = 800	CSH - BR US 4 2011 ADT = 6800 2011 DHV = 830 2021 ADT = 7400 2021 DHV = 900
2011 - 2021 CUM. ESALS = 1,759,000 2011 - 2031 CUM. ESALS = 4,261,000	2011 - 2021 CUM. ESALS = 2,423,000 2011 - 2031 CUM. ESALS = 5,951,000
BR US 4 - US 7 2011 ADT = 5100 2011 DHV = 550 2021 ADT = 5600 2021 DHV = 600	BR US 4 - US 7 2011 ADT = 5100 2011 DHV = 620 2021 ADT = 5600 2021 DHV = 680
2011 - 2021 CUM. ESALS = 1,583,000 2011 - 2031 CUM. ESALS = 3,848,000	2011 - 2021 CUM. ESALS = 1,928,000 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: *Michael Fowler* 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 3/4"
- 16 W: 1" MILL, 1" FILL THEN TAPER TO 3/4"
- 15 W: 1" MILL, 1" FILL THEN TAPER TO 3/4"
- 14 W: NO TREATMENT
- 13 W: NO TREATMENT
- 10 W: NO TREATMENT
- 8 W: 1" MILL, 1" FILL THEN TAPER TO 3/4"
- 5 W: 1" MILL, 1" FILL THEN TAPER TO 3/4"
- 3 W: NO TREATMENT

BRIDGE TREATMENT EAST BOUND

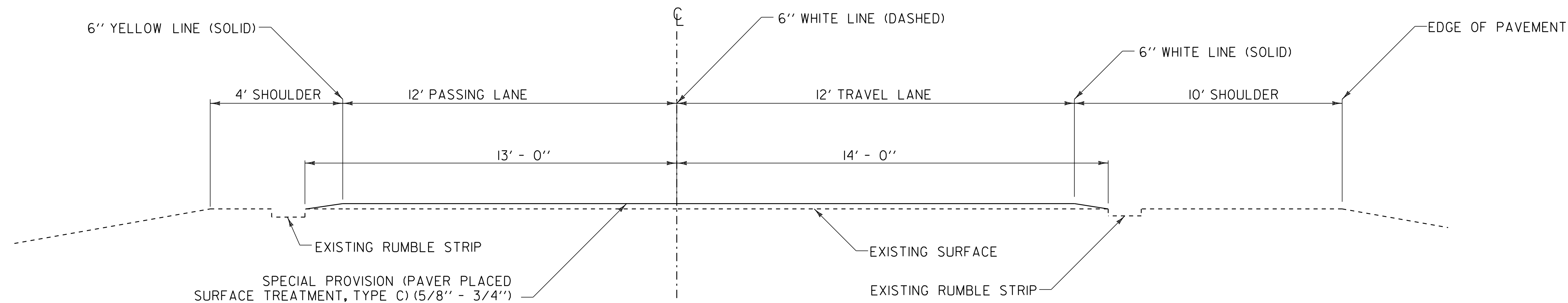
- 20 E: NO TREATMENT
- 19 E: NO TREATMENT
- 16 E: NO TREATMENT
- 15 E: 1" MILL, 1" FILL THEN TAPER TO 3/4"
- 14 E: 1" MILL, 1" FILL THEN TAPER TO 3/4"
- 13 E: 1" MILL, 1" FILL THEN TAPER TO 3/4"
- 10 E: 1" MILL, 1" FILL THEN TAPER TO 3/4"
- 8 E: 1" MILL, 1" FILL THEN TAPER TO 3/4"
- 5 E: 1" MILL, 1" FILL THEN TAPER TO 3/4"
- 3 E: NO TREATMENT

PROJECT NOTES SHEET

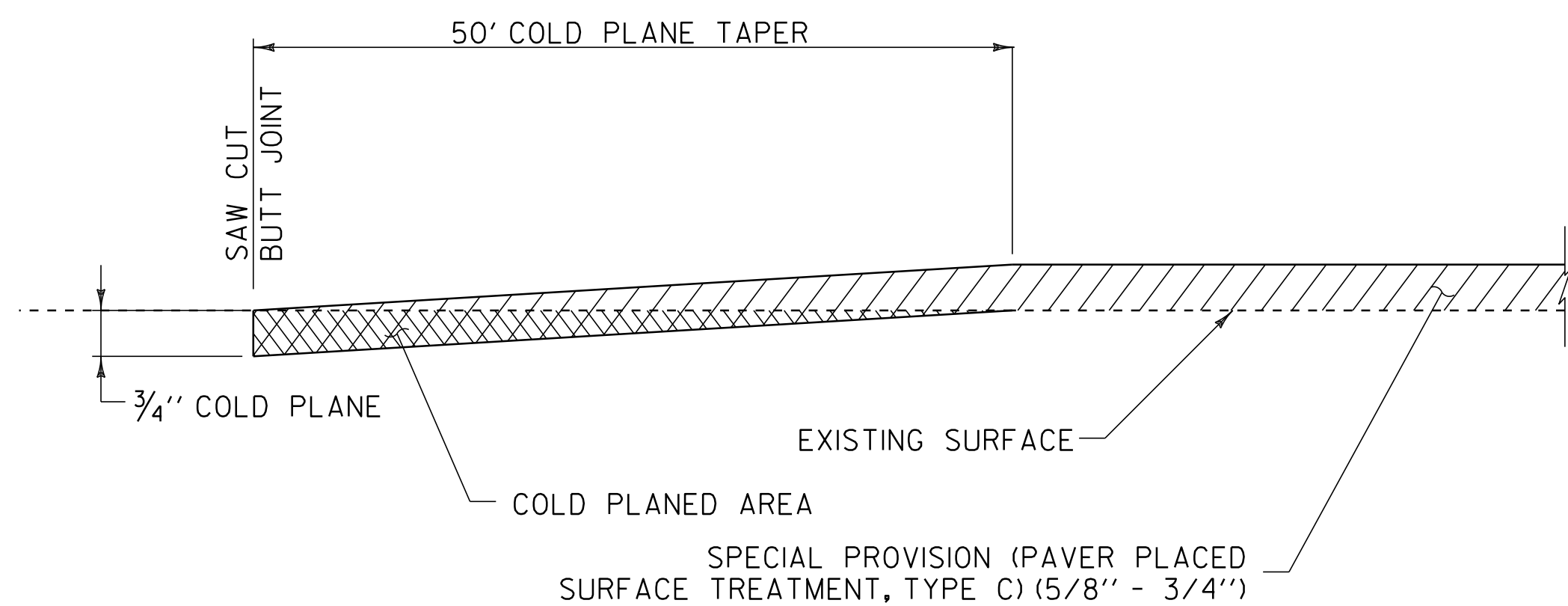
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PROJECT NUMBER: NH SURF (22)

FILE NAME: I0BI06\I0BI06.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
IPARM FILE NAME: I0BI06*2.1

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

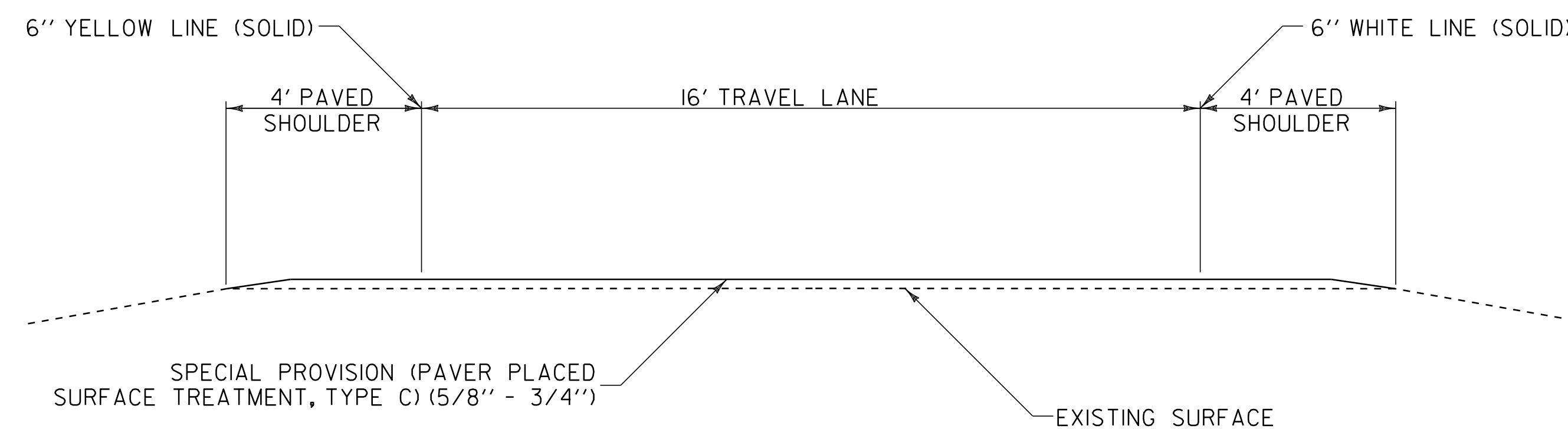


TYPICAL SECTION - ALTERNATE A
PAVER PLACED SURFACE TREATMENT TYPE C
US RTE. 4 EASTBOUND MM 0.190 - MM 18.805
US RTE. 4 WESTBOUND MM 0.195 - MM 18.805
0.578

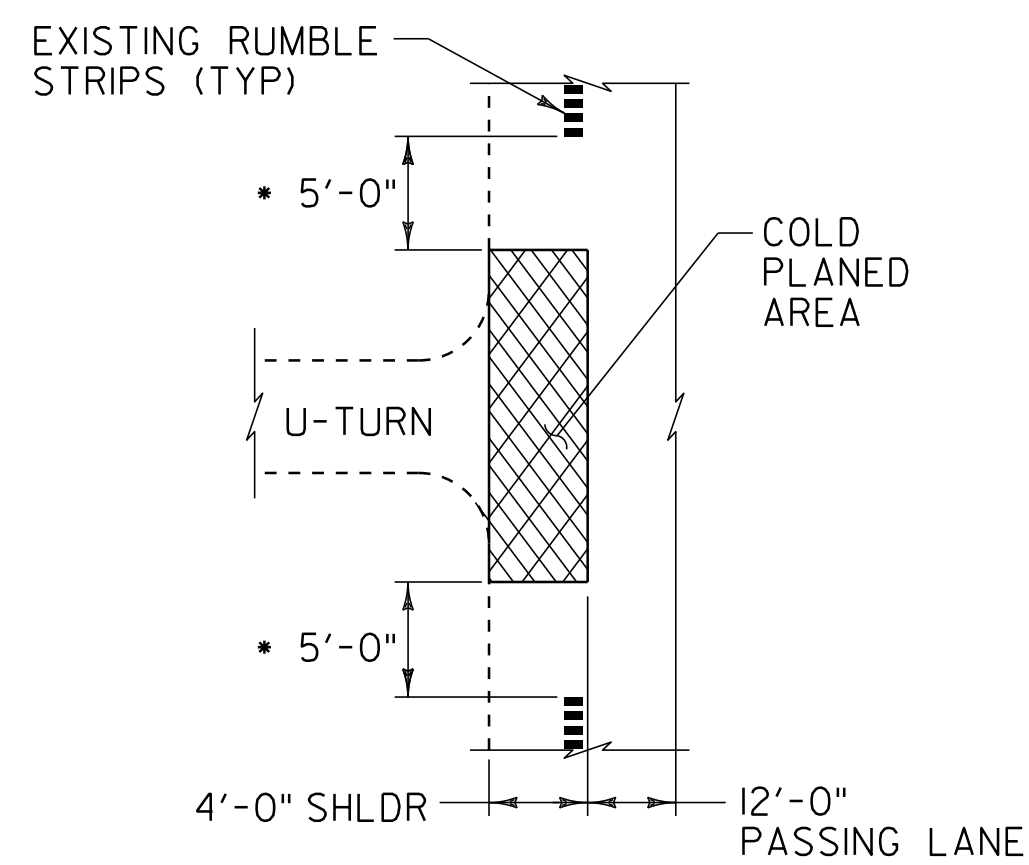


COLD PLANE DETAIL AT BEGIN/END PROJECT & RAMPS

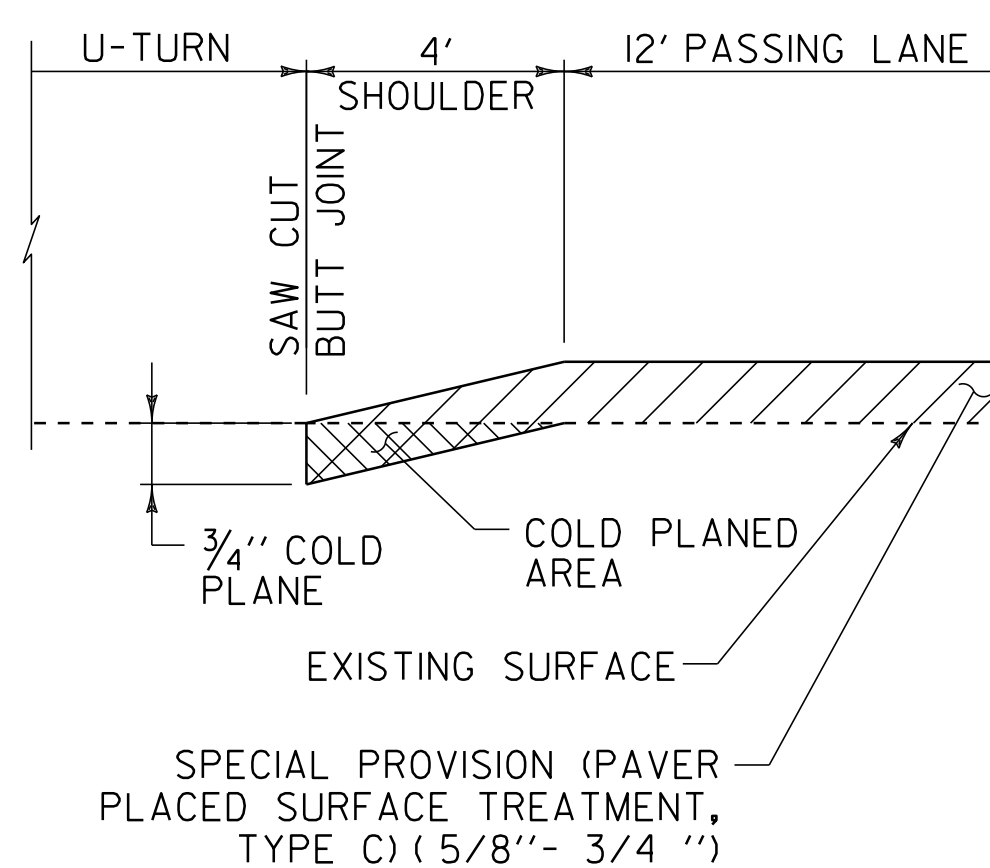
NOTES:
 1. SURFACE PREPARATION IS REQUIRED ON ALL RAMPS.



TYPICAL RAMP SECTION



* BEGIN COLD PLANING 5'-0" AFTER RUMBLE STRIPS END, AND 5'-0" BEFORE RUMBLE STRIPS BEGIN



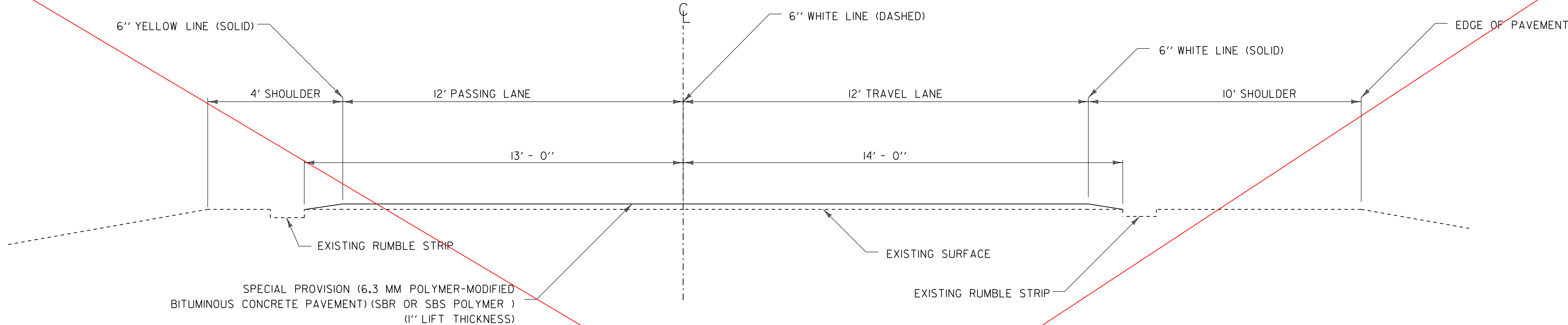
COLD PLANE DETAIL AT U-TURNS

NOT TO SCALE

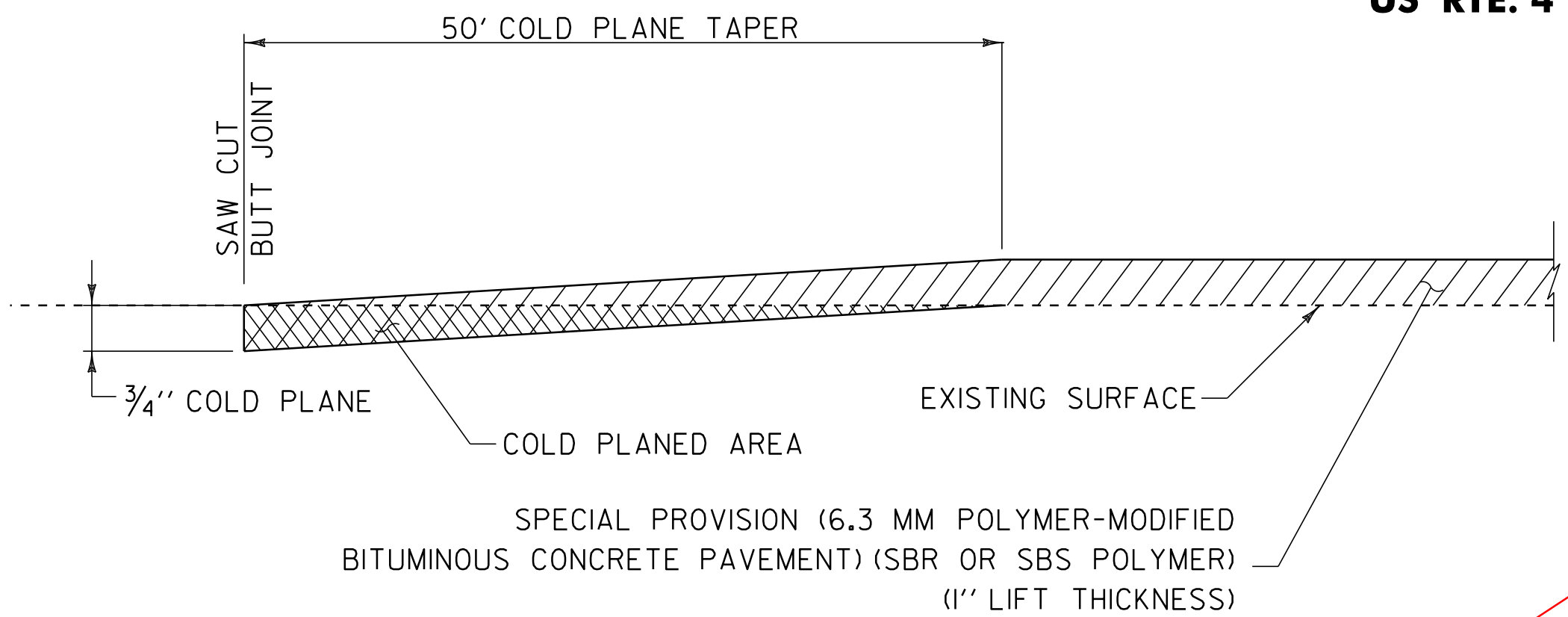
**ALTERNATE A
 TYPICAL
 SECTIONS**

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*3.1
 PLOT DATE: 31-MAY-2013 11:55
 DRAWN BY: PVT. MGT.
 CHECKED BY: PVT. MGT.
 SHEET 3 OF 24

TYPICAL SECTION

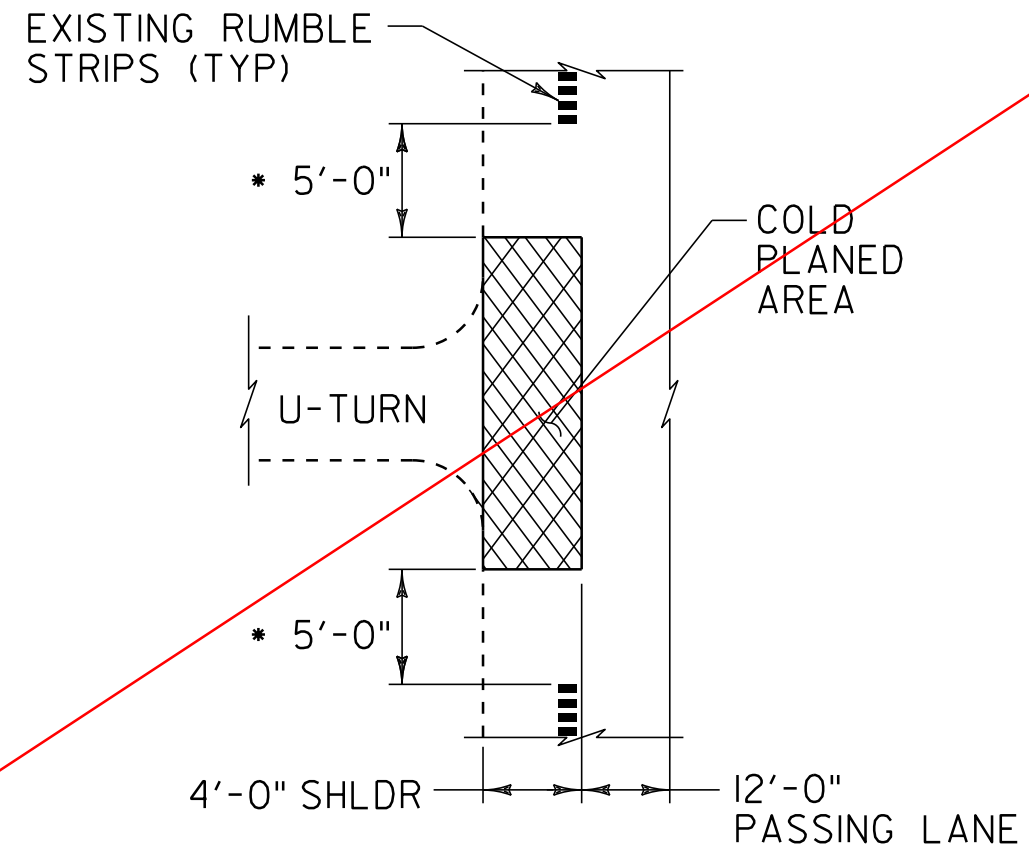


PROJECT TYPICAL SECTION - ALTERNATE B
6.3 MM POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT
US RTE. 4 EASTBOUND MM 0.195 - MM 18.805
US RTE. 4 WESTBOUND MM 0.594 - MM 18.805



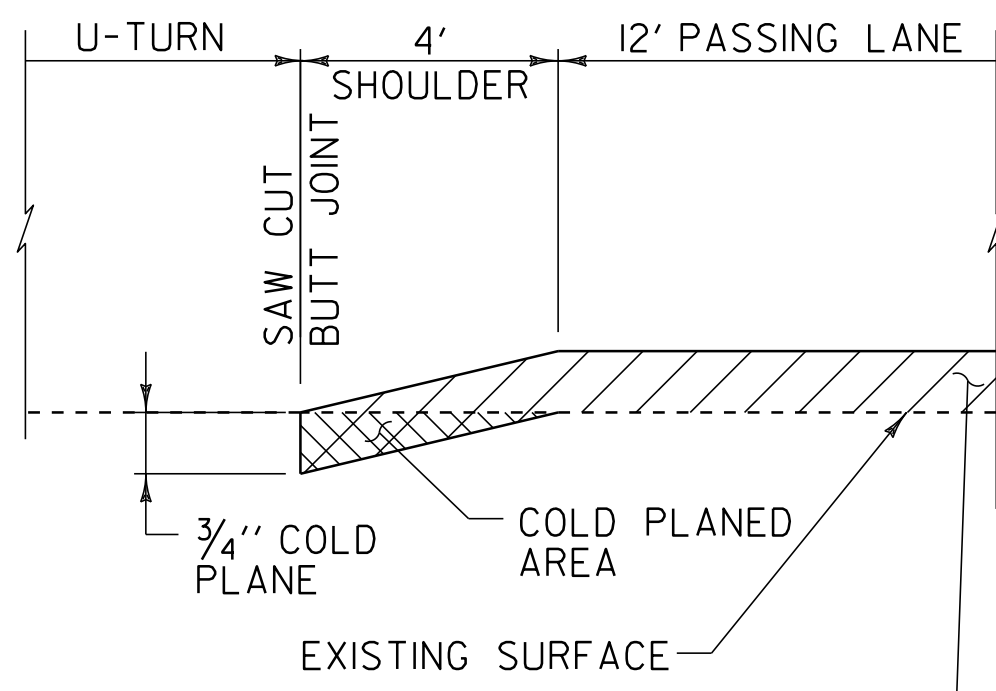
COLD PLANE DETAIL AT BEGIN/END PROJECT & RAMPS

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

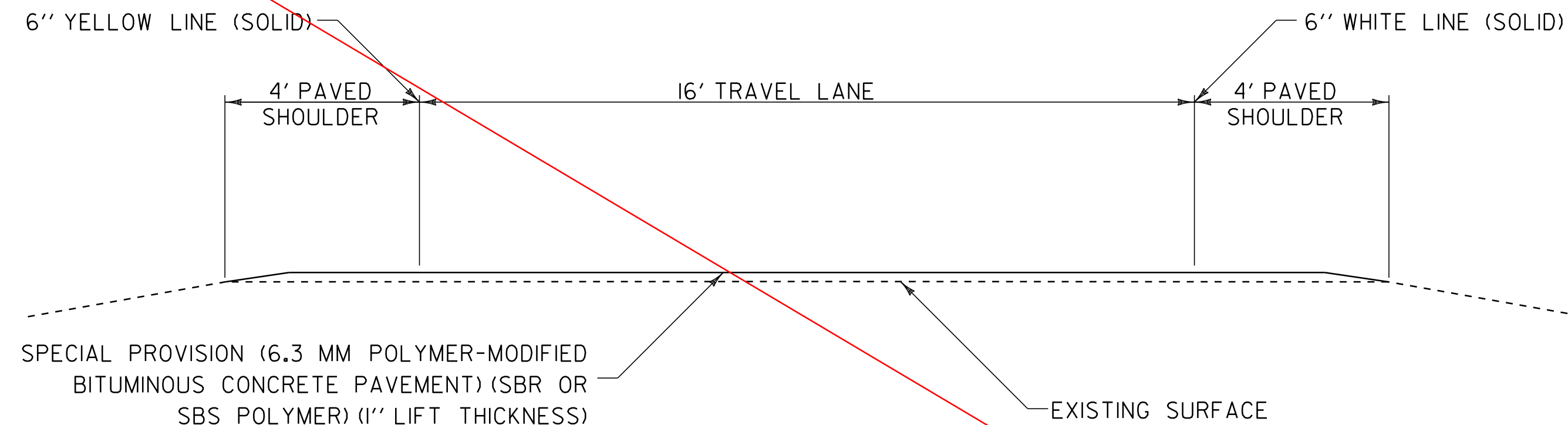


* BEGIN COLD PLANING 5'-0" AFTER RUMBLE STRIPS END, AND 5'-0" BEFORE RUMBLE STRIPS BEGIN

COLD PLANE DETAIL AT U-TURNS



SPECIAL PROVISION (6.3 MM POLYMER-MODIFIED BITUMINOUS CONCRETE PAVEMENT) (SBR OR SBS POLYMER) (1'' LIFT THICKNESS)



TYPICAL RAMP SECTION

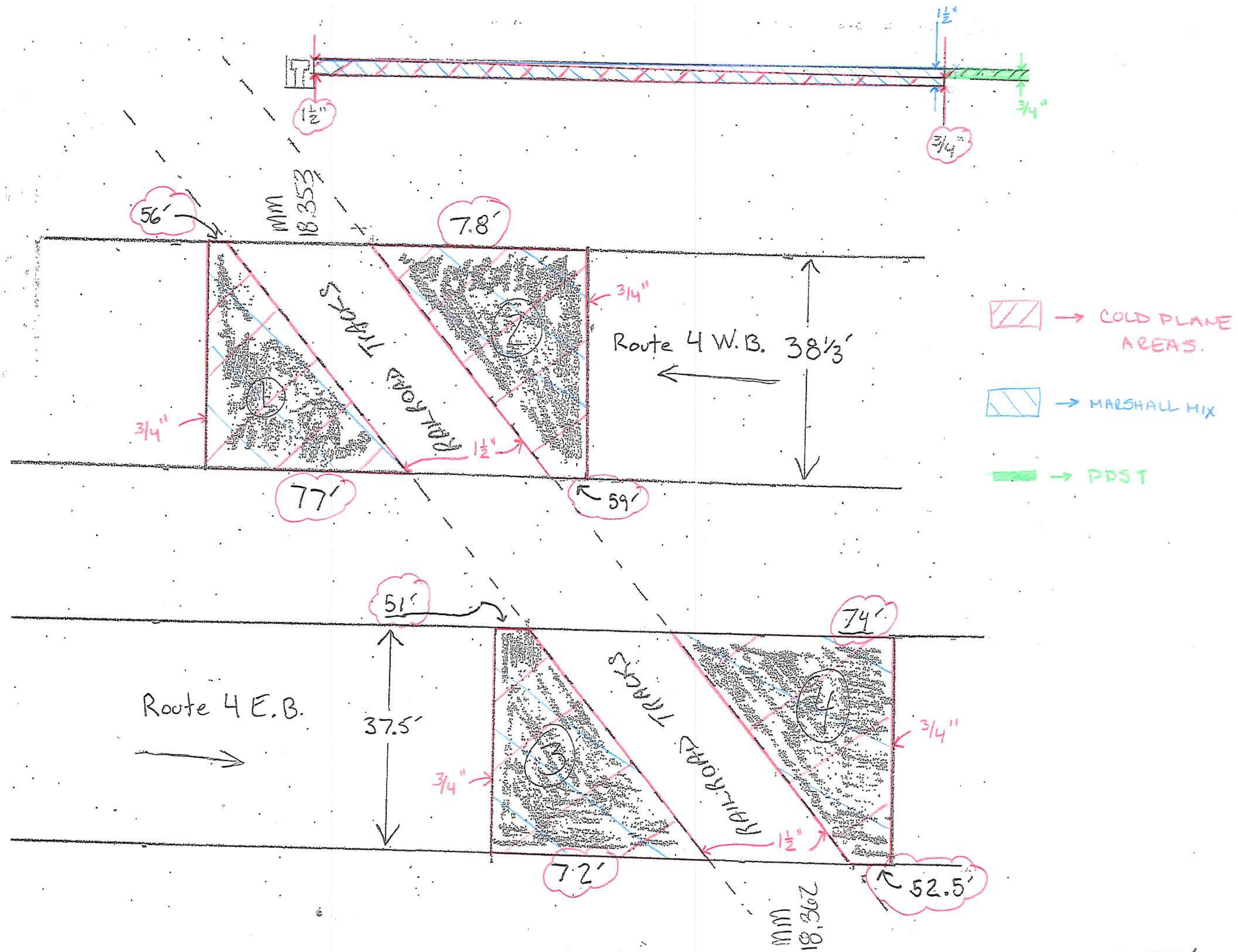
NOTE:
 1. PRIOR TO THE PLACEMENT OF THE POLYMER MODIFIED SURFACE TREATMENT, EMULSIFIED ASPHALT SHALL BE APPLIED TO ALL EXISTING PAVEMENT SURFACES AND ON ALL COLD PLANED SURFACES AT A RATE OF 0.080 GAL/SY (+/- 0.01GAL/SY) OR AS DIRECTED BY THE RESIDENT ENGINEER. EMULSIFIED ASPHALT SHALL BE RS-IH OR CRS-IH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

USED ALTERNATE A

ALTERNATE B
TYPICAL
SECTIONS

NOT TO SCALE

PROJECT NAME:	FAIR HAVEN-RUTLAND TOWN	PLOT DATE:	31-MAY-2013 11:55
PROJECT NUMBER:	NH SURF(22)	DRAWN BY:	PVT. MGT.
FILE NAME:	10B106\10B106.dgn	CHECKED BY:	PVT. MGT.
PROJECT LEADER:	M. FOWLER	SHEET 4	OF 24
DESIGNED BY:	PVT. MGT.		
10A106*4.1			



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.

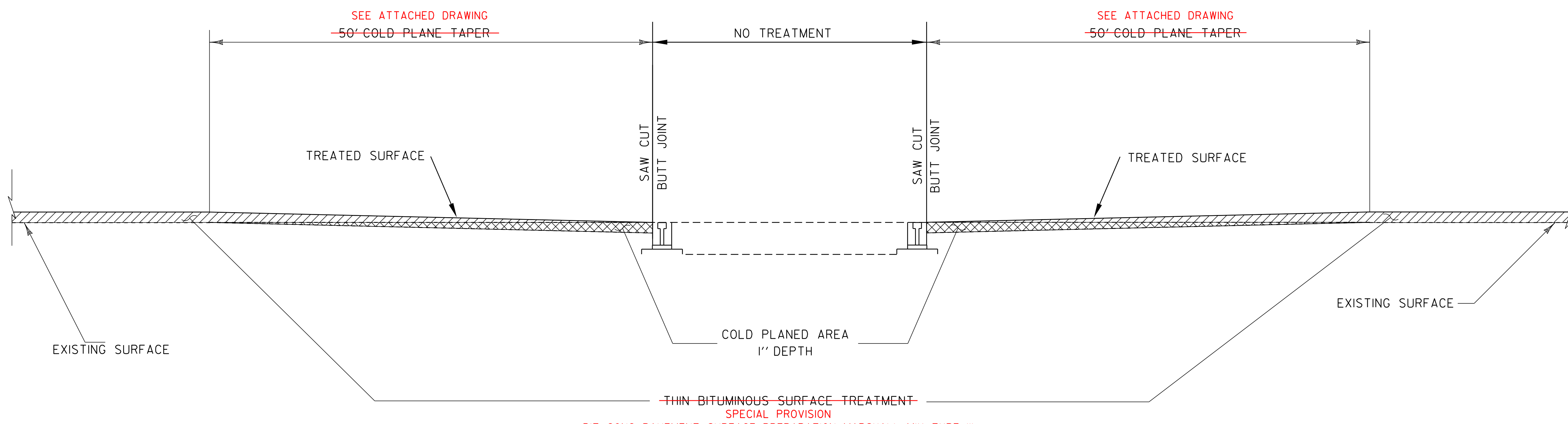
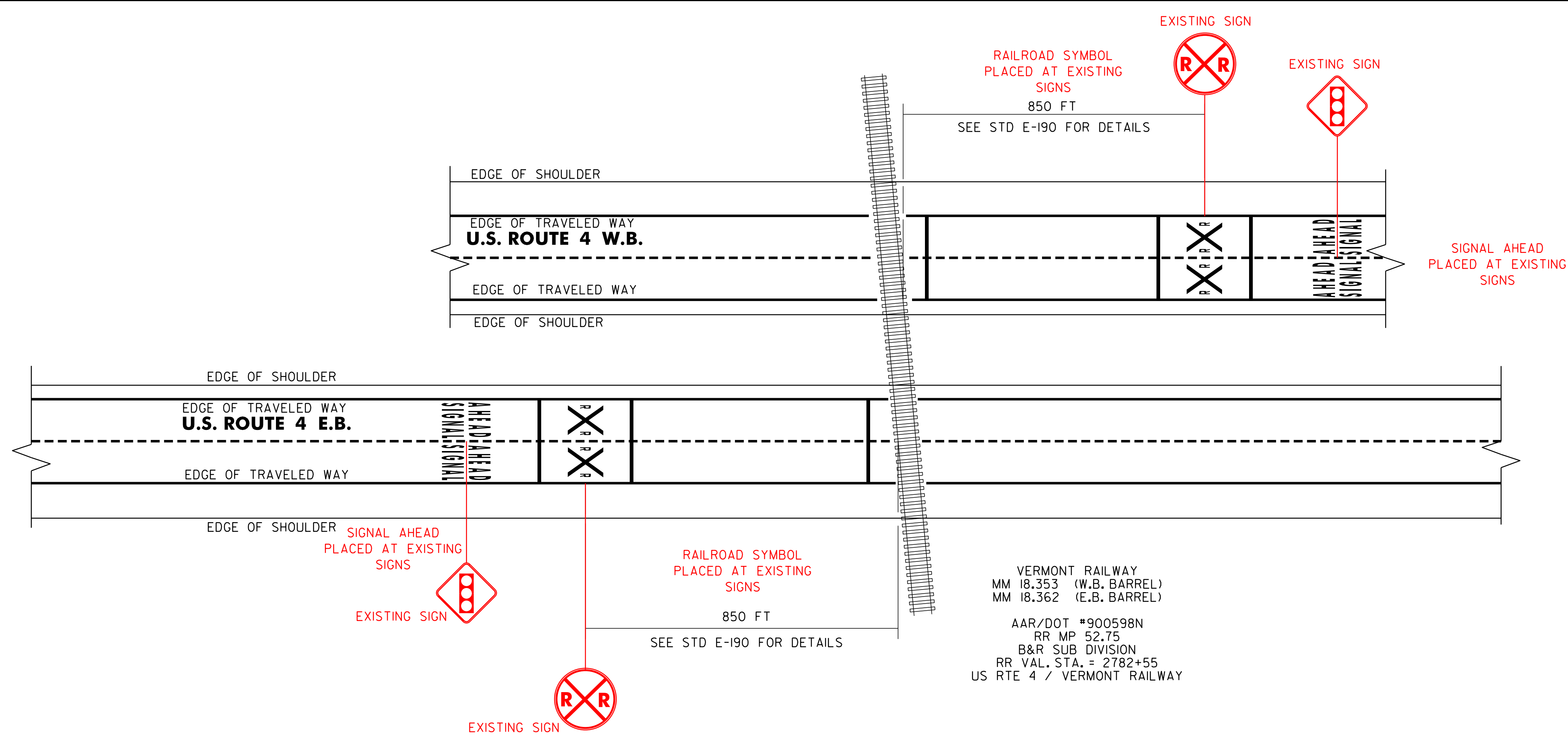
10B106*8.1

PLOT DATE: 31-MAY-2013 11:55

DRAWN BY: S. SCHMITT

CHECKED BY: PVT. MGT.

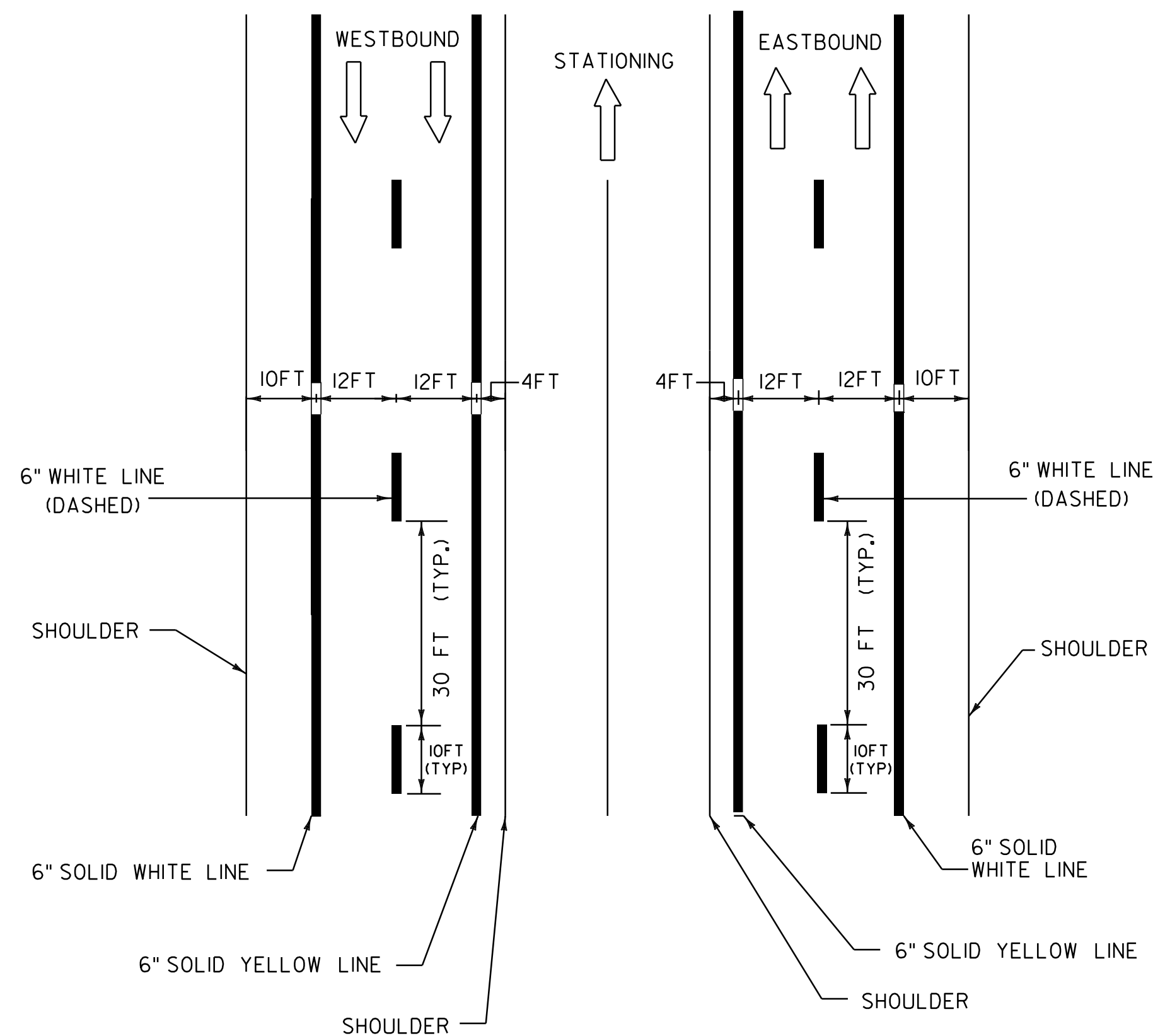
SHEET 7A OF 24



RAIL - HIGHWAY CROSSING TREATMENT DETAIL

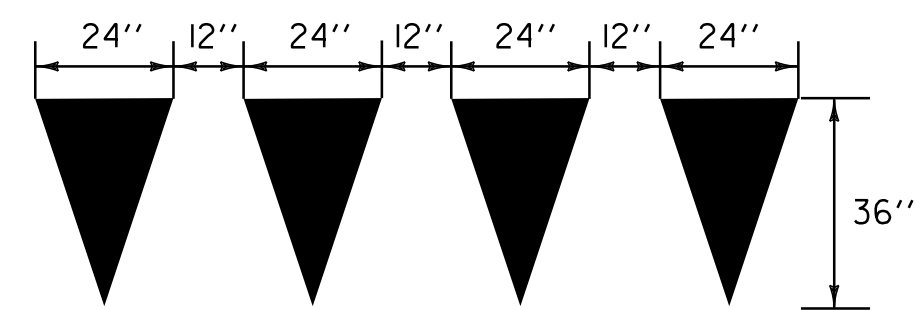
NOT TO SCALE

RAILROAD CROSSING DETAIL SHEET	PROJECT NAME: FAIR HAVEN-RUTLAND TOWN
	PROJECT NUMBER: NH SURF(22)
	FILE NAME: 10b106/10b106.dgn
	PLOT DATE: 31-MAY-2013 11:55
PROJECT LEADER: M. FOWLER	DRAWN BY: PVT. MGT.
DESIGNED BY: PVT. MGT.	CHECKED BY: PVT. MGT.
10B106*8.1	SHEET 8 OF 24



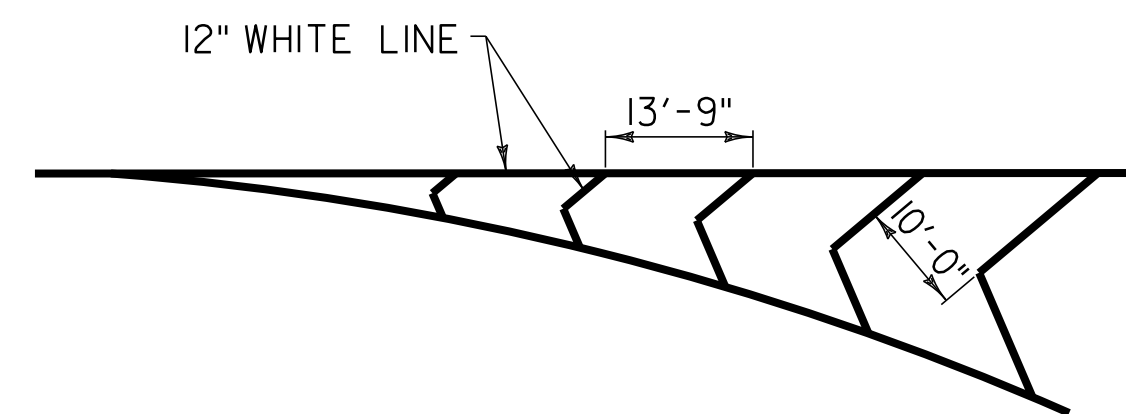
PAVEMENT MARKING LINE DETAILS

SEE MAINLINE AND INTERCHANGE LAYOUT SHEETS FOR LOCATIONS AND MATERIALS



YIELD LINE DETAIL

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

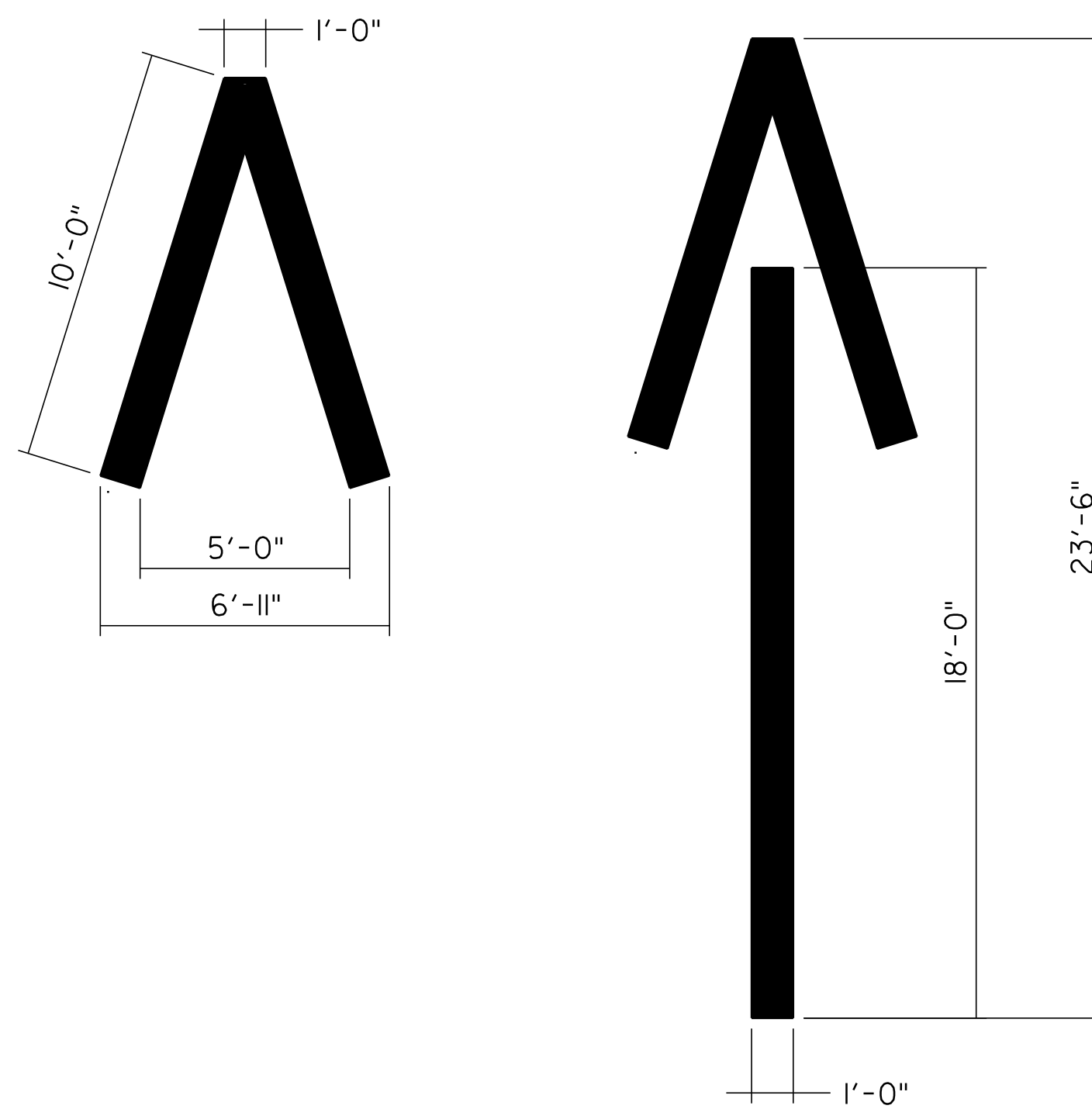


GORE MARKING DETAIL

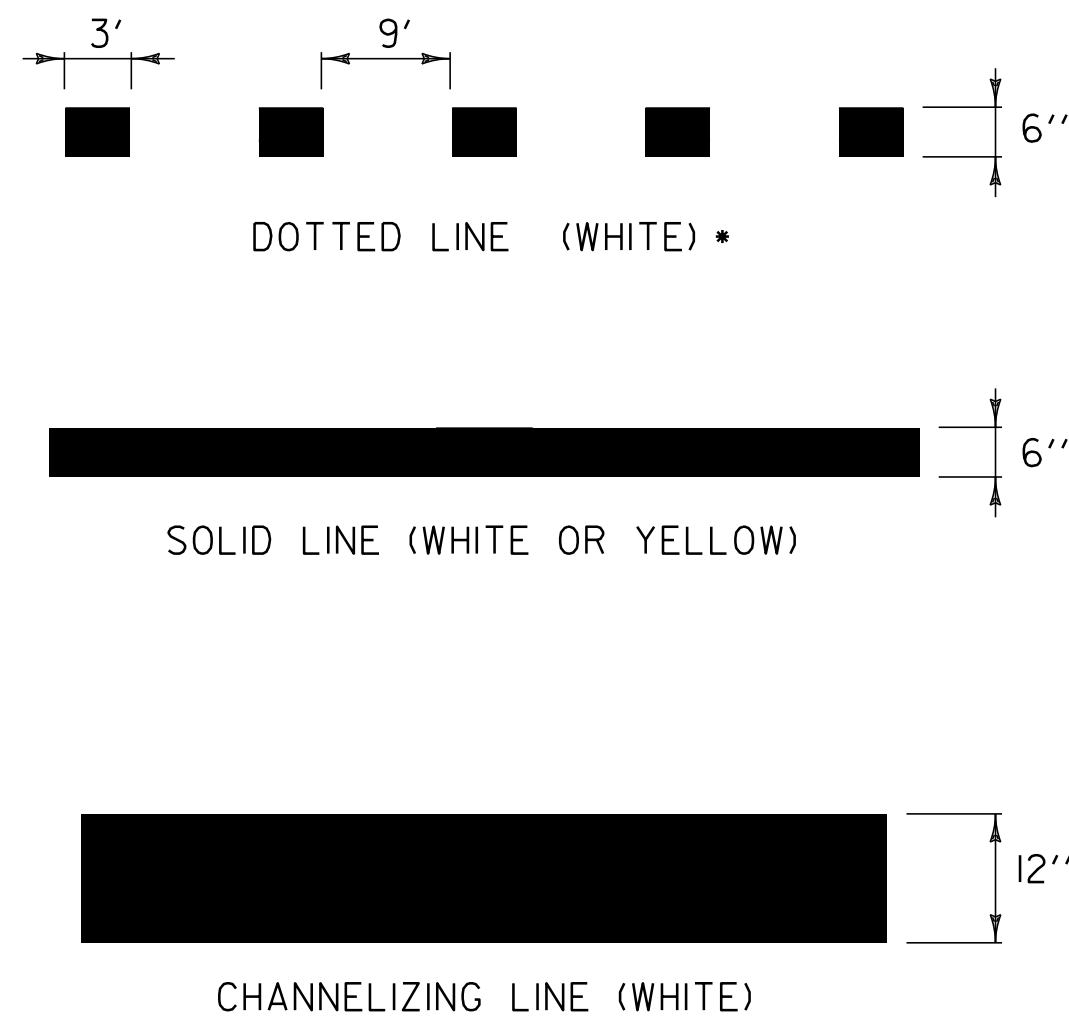
LEGEND



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.



WRONG WAY ARROW DETAILS



PAVEMENT MARKING LINE DETAILS

* TO BE INSTALLED AT THE DIRECTION OF THE RESIDENT ENGINEER

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.

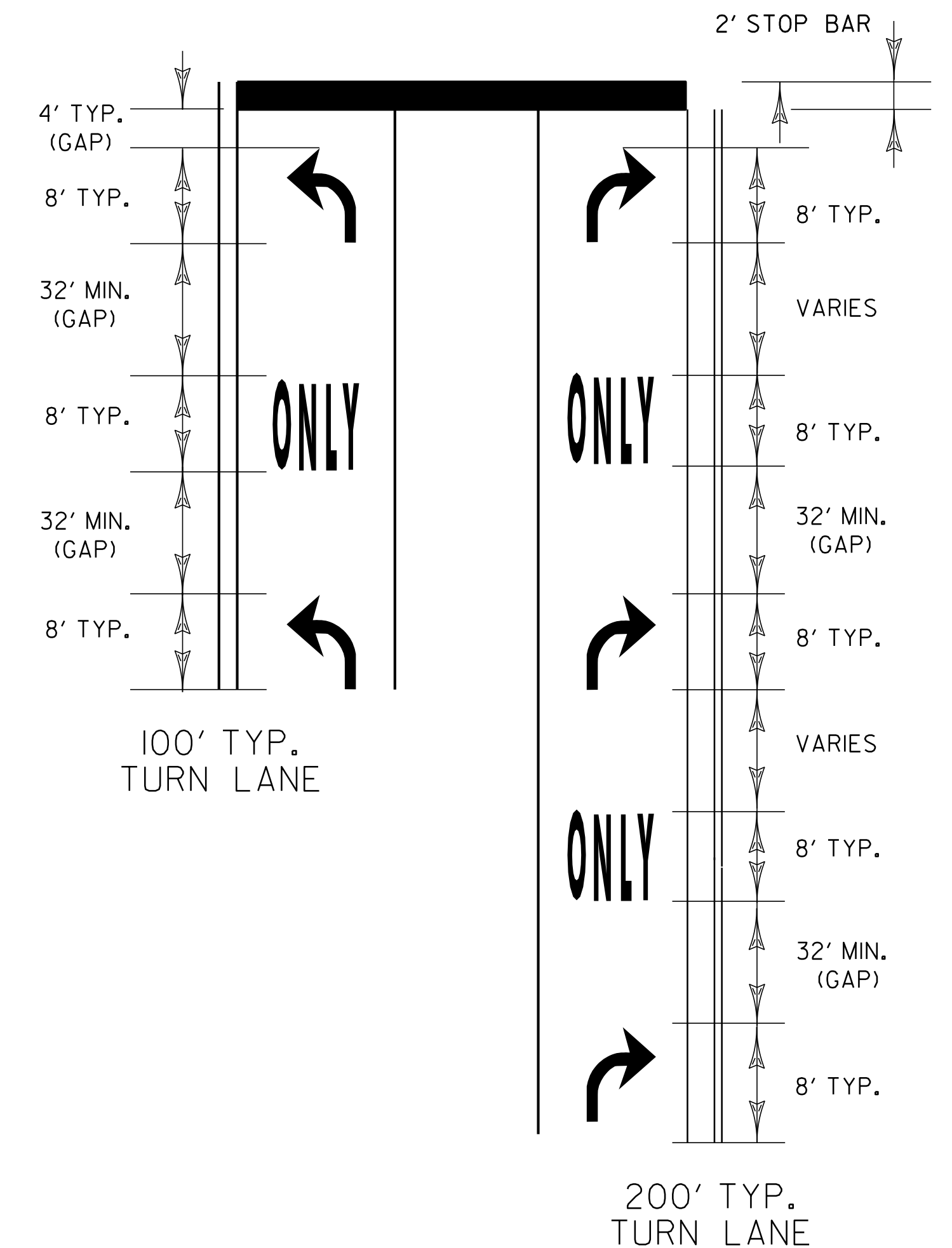
THE LONGITUDINAL SPACE BETWEEN WORD OR SYMBOL MESSAGE MARKINGS, SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTERS FOR LOW SPEED ROADS, BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTERS UNDER ANY CONDITIONS.

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.

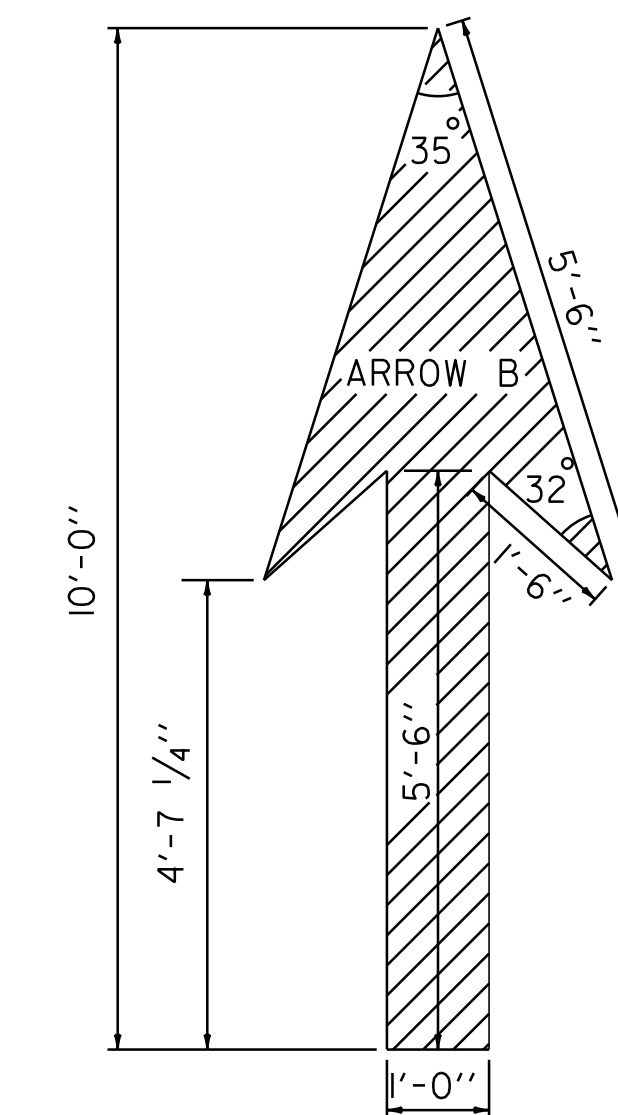
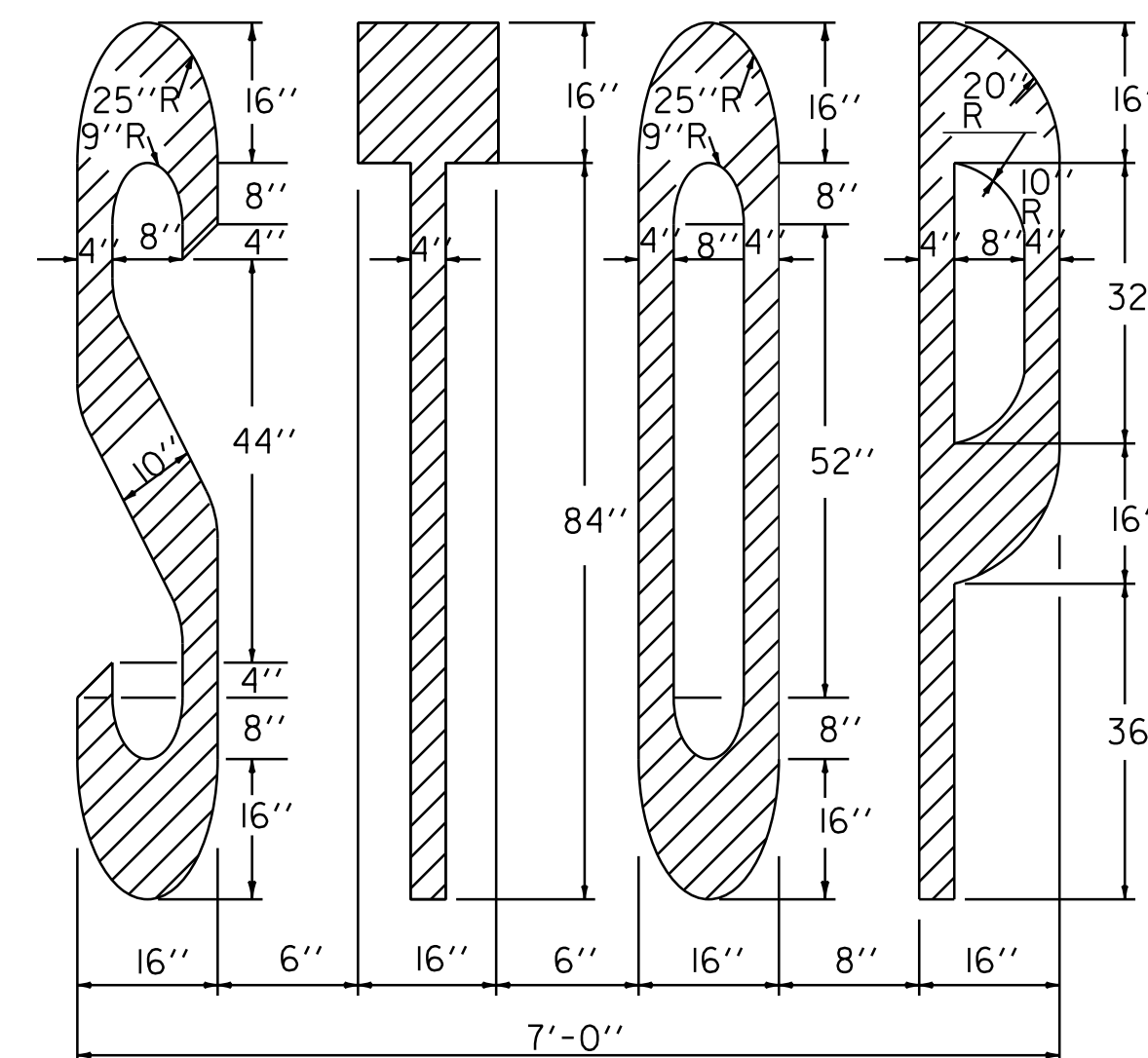
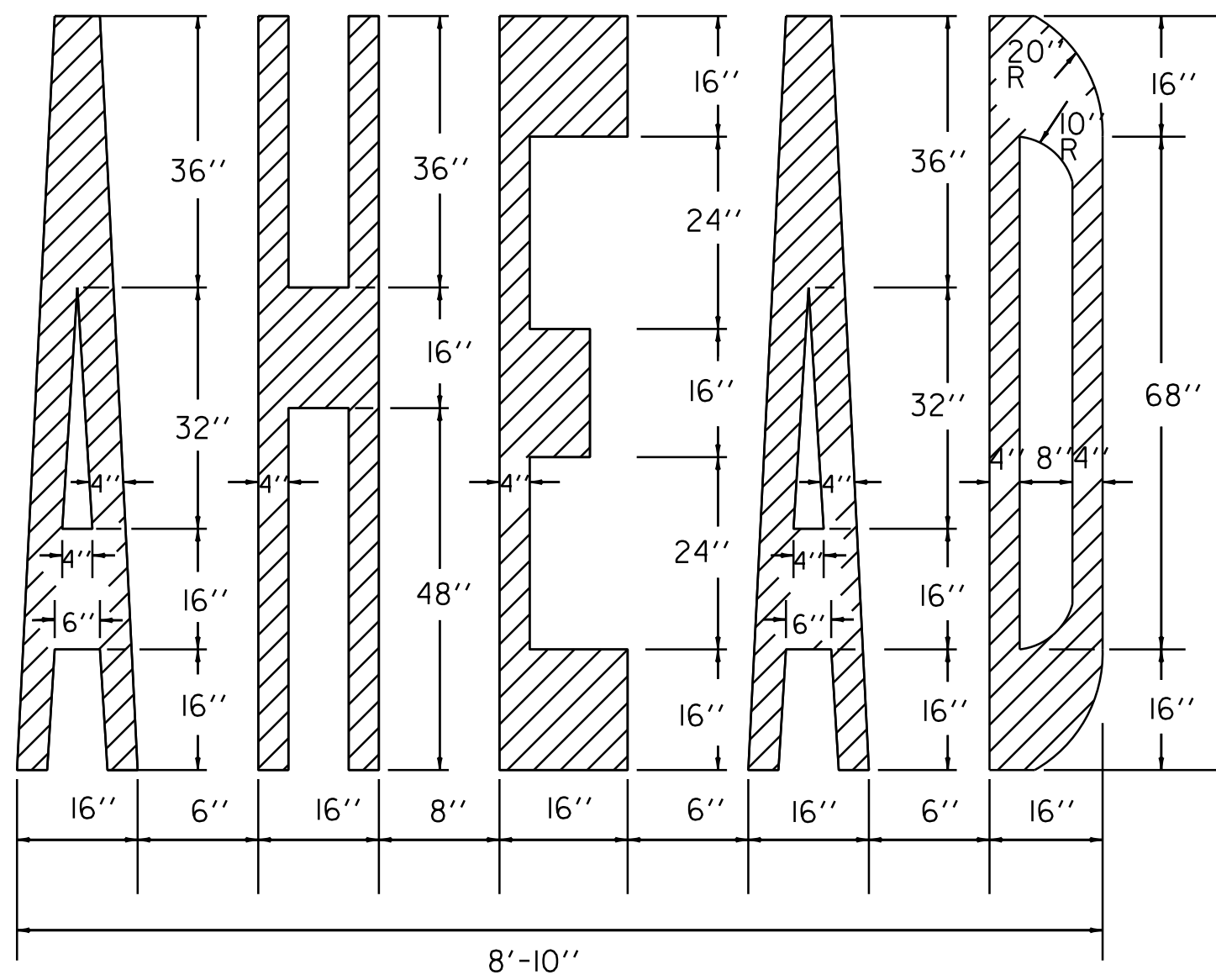
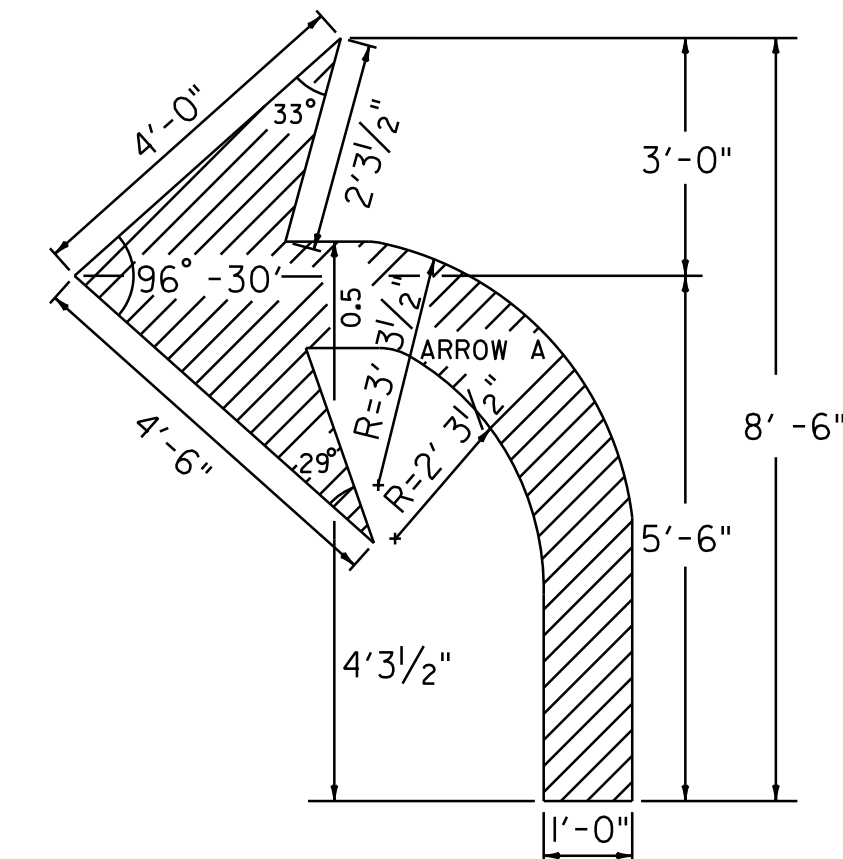
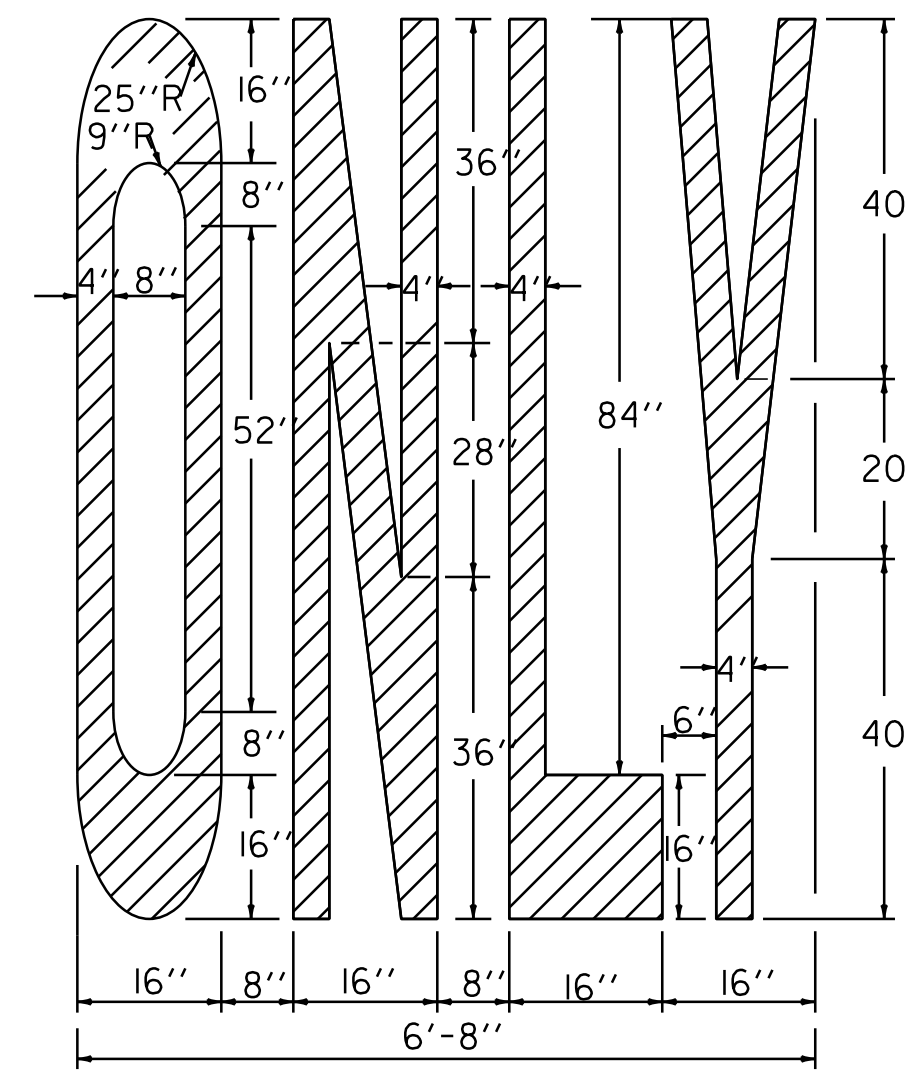
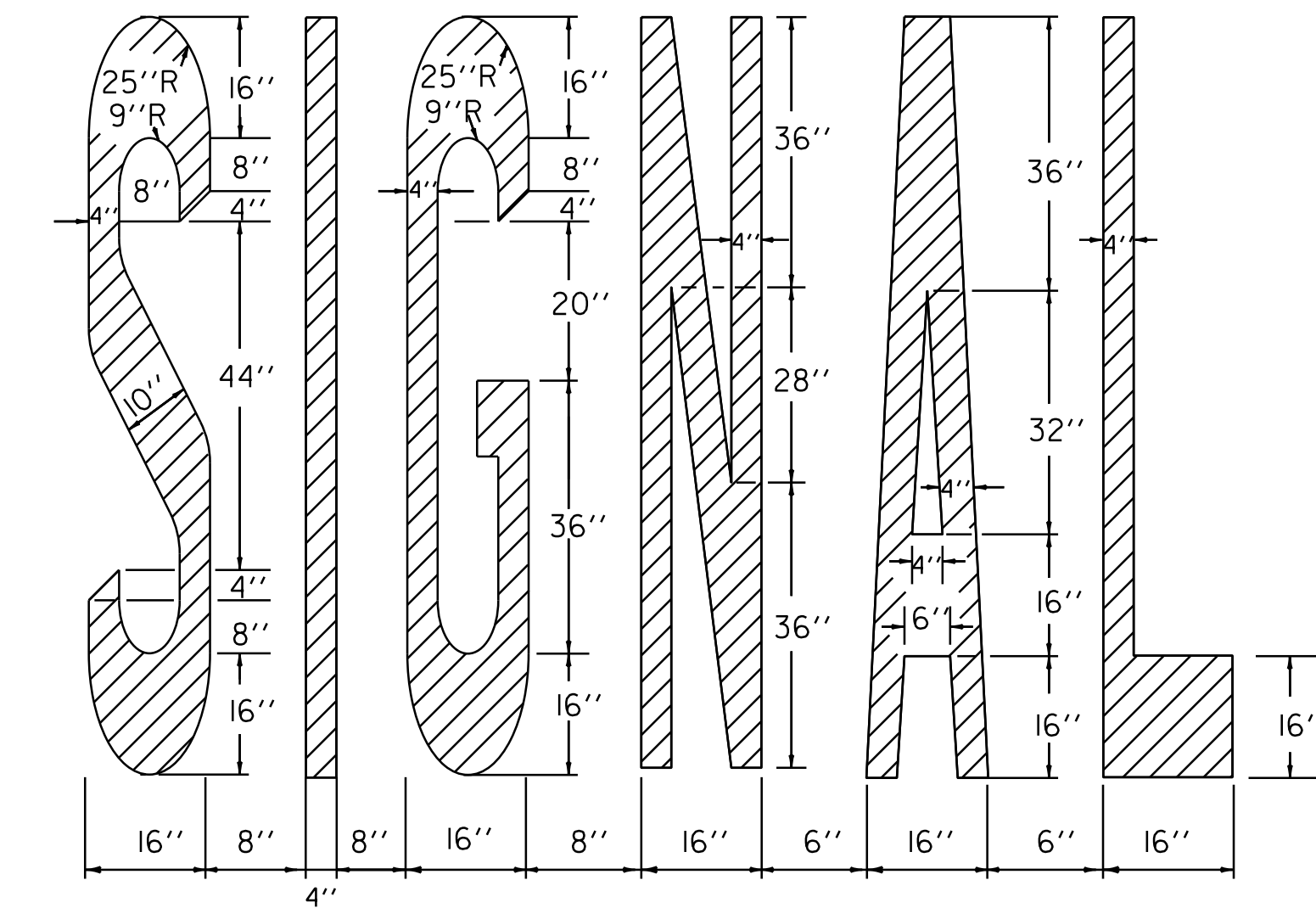
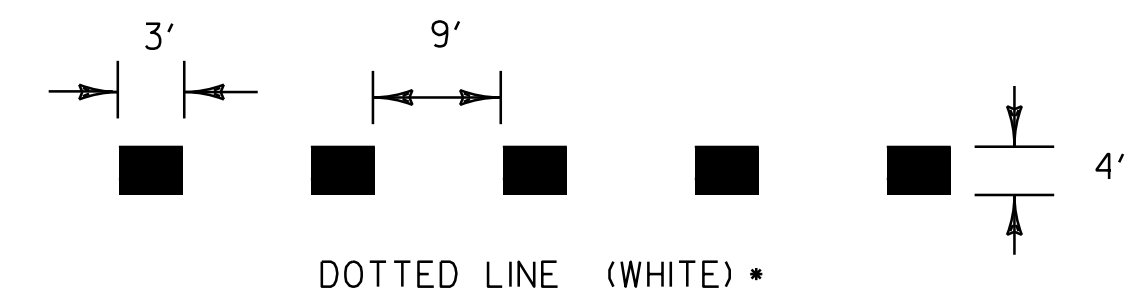
TYPICAL MARKINGS FOR TURN LANES



NOT TO SCALE

PAVEMENT MARKING SHEET 1	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
	DESIGNED BY:	PVT. MGT.
	IPARM FILE NAME:	10B106*9.i
	DRAWN BY:	PVT. MGT.
	CHECKED BY:	PVT. MGT.
	SHEET	9 OF 24

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



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: I0bI06/I0bI06.dgn

PROJECT LEADER: M. FOWLER

DESIGNED BY: PVT. MGT.

I0bI06*10.i.

PLOT DATE: 31-MAY-2013 11:55

DRAWN BY: PVT. MGT.

CHECKED BY:

SHEET 10 OF 24

646.26 24 INCH STOP BAR

STA. E13+04
STA G15+73

646.680 TEMPORARY 24 INCH STOP BAR

STA. E13+04
STA G15+73

646.30 LETTER OR SYMBOL

STA E9+00	WRONG WAY ARROW	(1EA.)
STA E12+95	STOP	(4 EA.)
STA G11+19	WRONG WAY ARROW	(1EA.)
STA G15+68	STOP	(4 EA.)
STA G	STOP AHEAD	(9 EA.)
STA E	STOP AHEAD	(9 EA.)

646.690 TEMPORARY LETTER OR SYMBOL

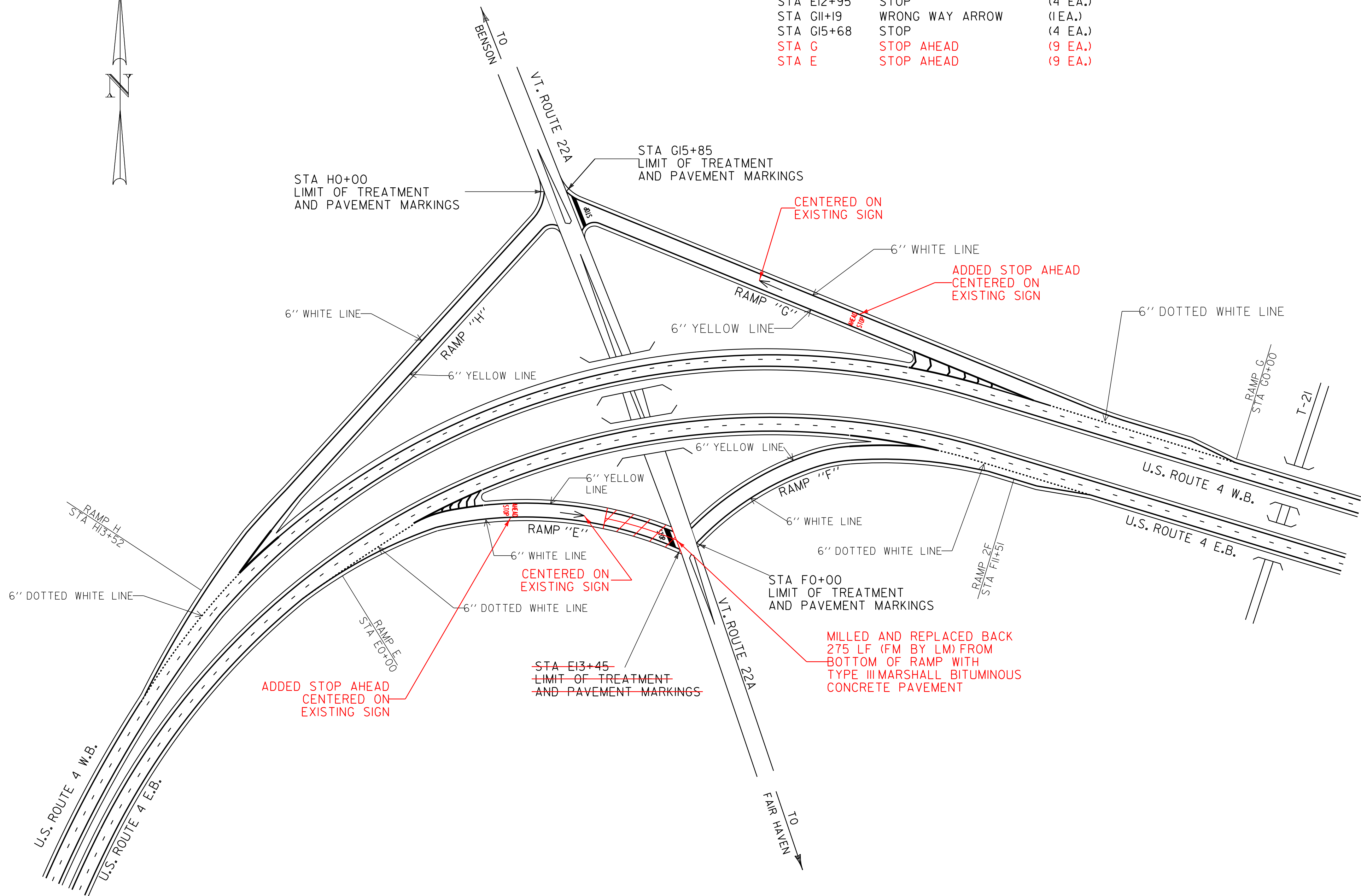
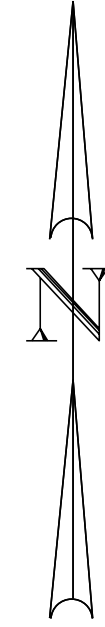
STA E9+00	WRONG WAY ARROW	(1EA.)
STA E12+95	STOP	(4 EA.)
STA G11+19	WRONG WAY ARROW	(1EA.)
STA G15+68	STOP	(4 EA.)
STA G	STOP AHEAD	(9 EA.)
STA E	STOP AHEAD	(9 EA.)

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



NOT TO SCALE

**INTERCHANGE
NO. 2
PAVEMENT
MARKING
DETAIL SHEET**

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

FILE NAME: I0b106\I0b106.dgn
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
I0B106*II.I

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

646.26 24 INCH STOP BAR
STA. LI2+24

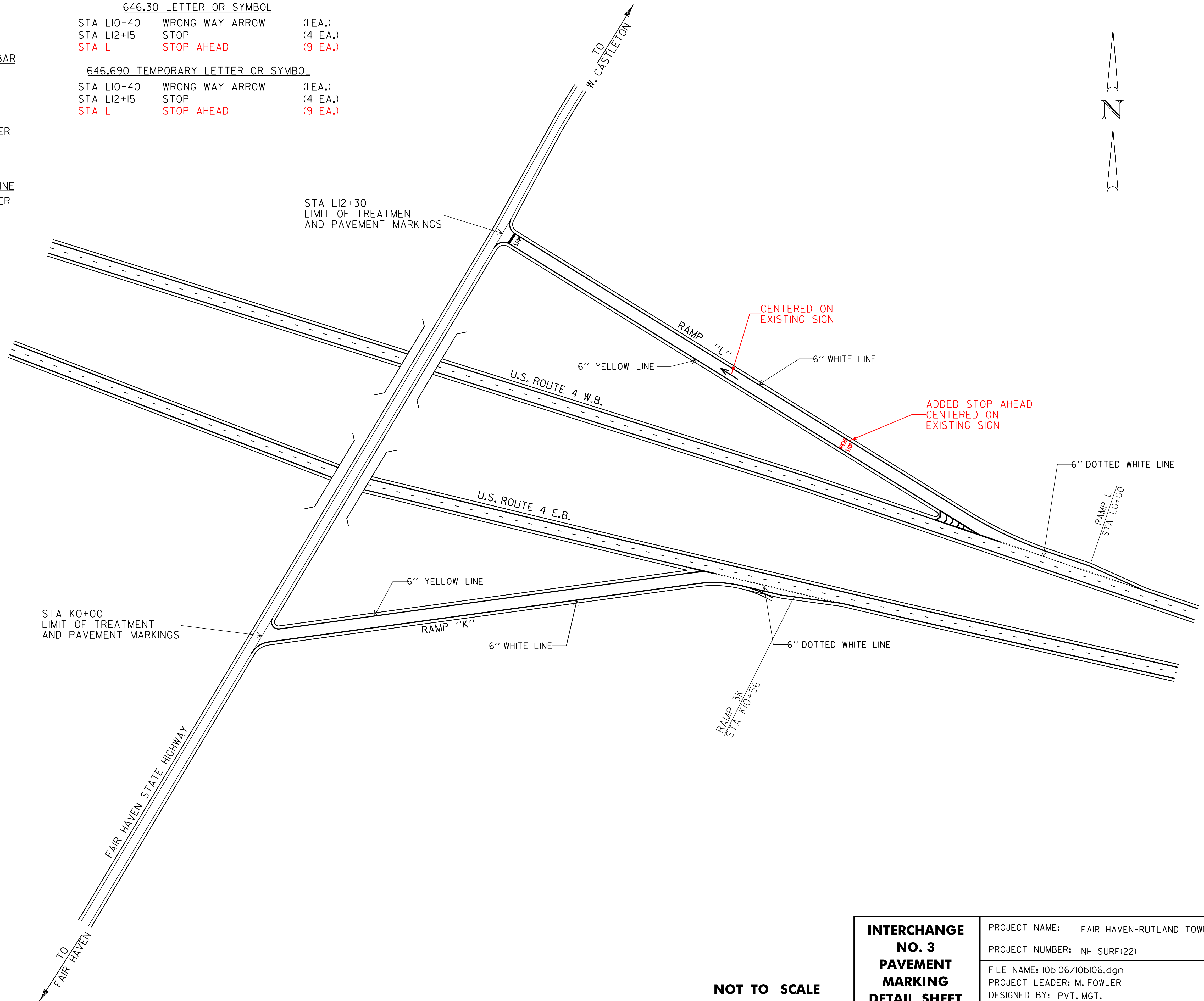
646.680 TEMPORARY 24 INCH STOP BAR
STA. LI2+24

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 LI0+40 WRONG WAY ARROW (1 EA.)
STA LI2+15 STOP (4 EA.)
STA L STOP AHEAD (9 EA.)

646.690 TEMPORARY LETTER OR SYMBOL
STA LI0+40 WRONG WAY ARROW (1 EA.)
STA LI2+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: IOBI06/IOBI06.dgn

PROJECT LEADER: M. FOWLER

DESIGNED BY: PVT. MGT.

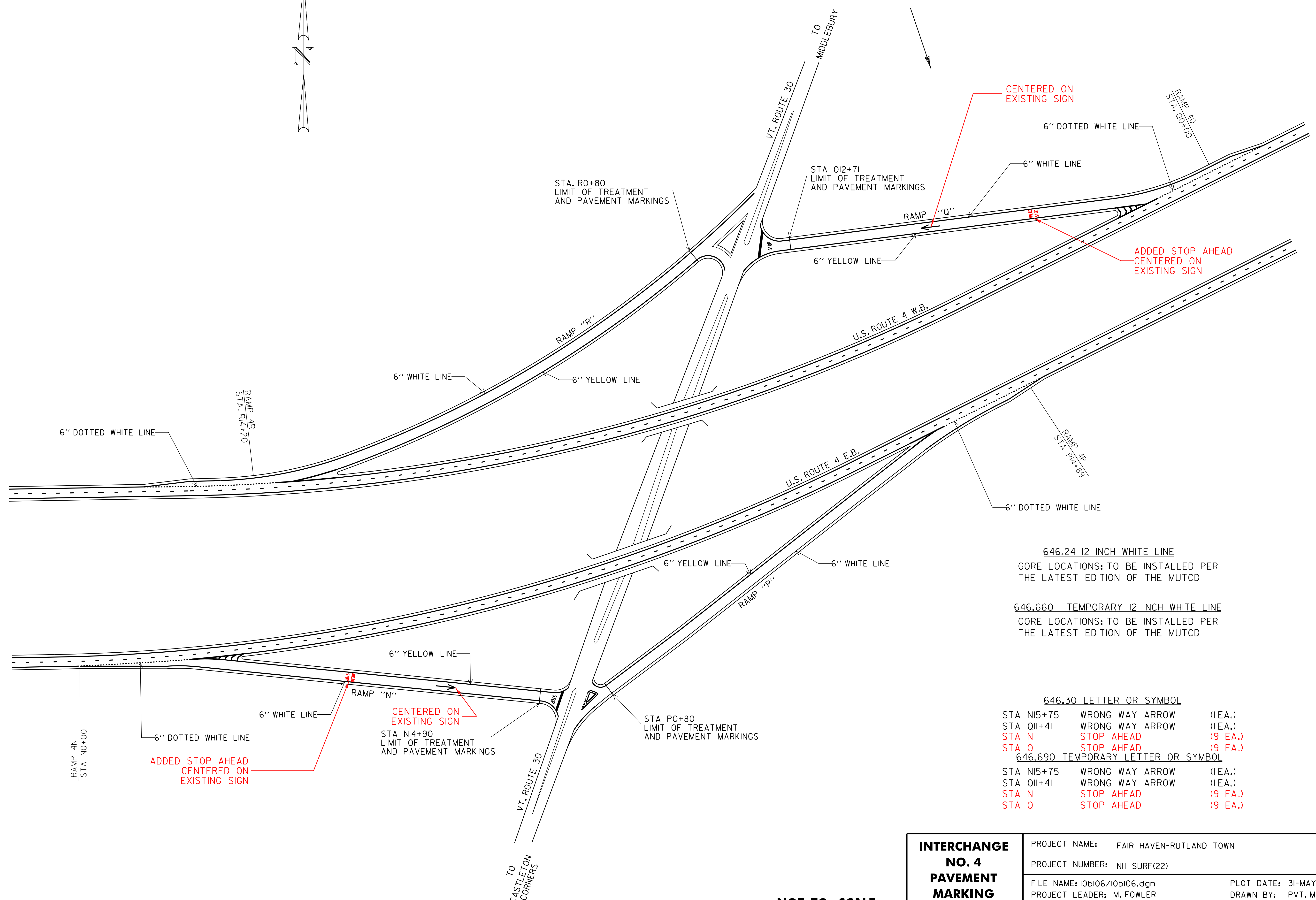
IOBI06*12.1

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

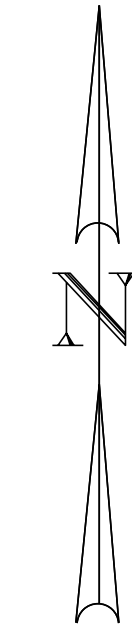
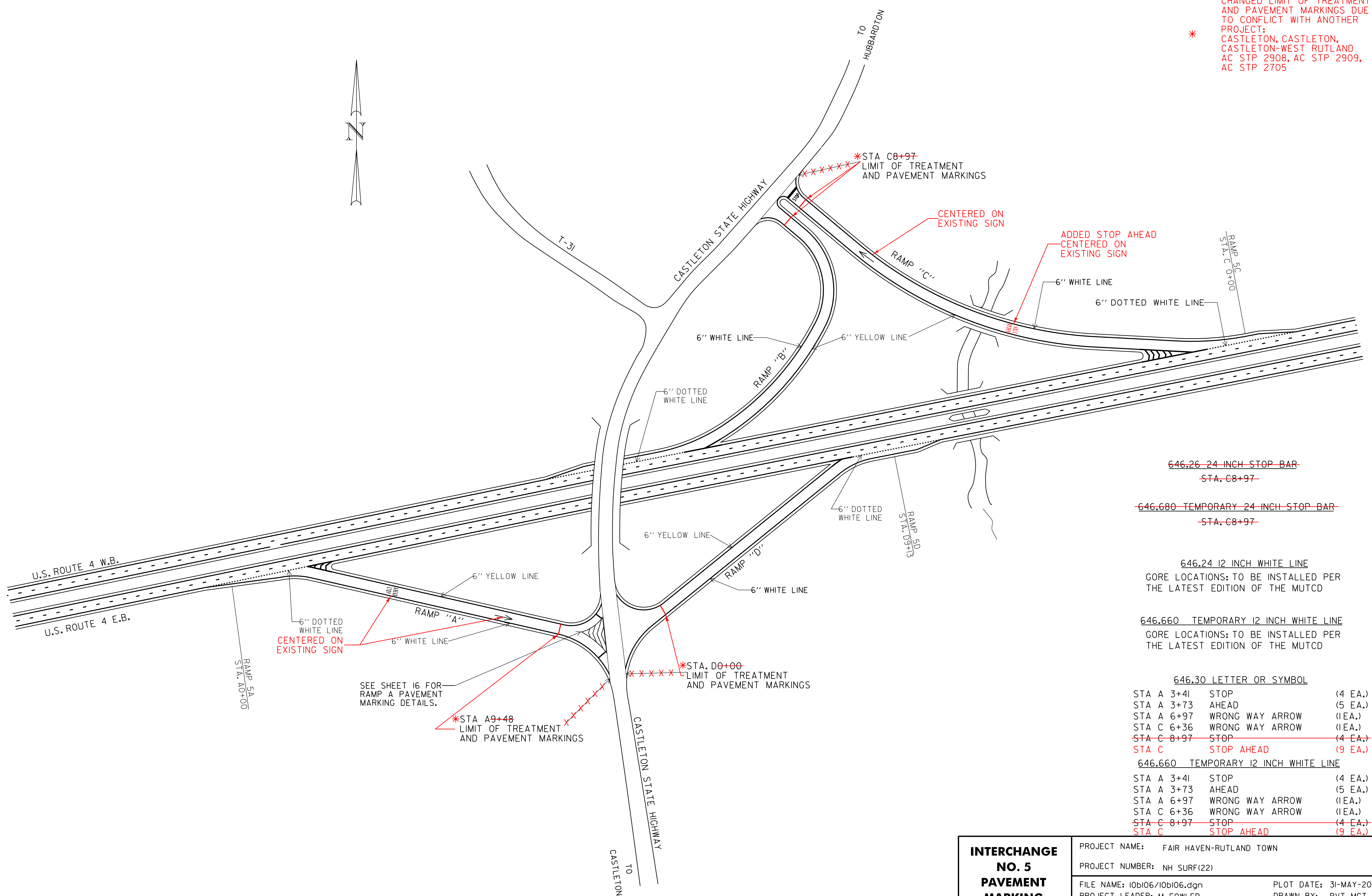
646.660 TEMPORARY 12 INCH WHITE LINE
GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD

646.30 LETTER OR SYMBOL		
STA N15+75	WRONG WAY ARROW	(1EA.)
STA Q11+41	WRONG WAY ARROW	(1EA.)
STA N	STOP AHEAD	(9 EA.)
STA Q	STOP AHEAD	(9 EA.)
646.690 TEMPORARY LETTER OR SYMBOL		
STA N15+75	WRONG WAY ARROW	(1EA.)
STA Q11+41	WRONG WAY ARROW	(1EA.)
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	PLOT DATE: 31-MAY-2013 11:55
	PROJECT NUMBER: NH SURF(22)	DRAWN BY: PVT. MGT.
	FILE NAME: I0bi06/I0bi06.dgn	CHECKED BY: PVT. MGT.
	PROJECT LEADER: M. FOWLER	SHEET 13 OF 24
	DESIGNED BY: PVT. MGT.	
	IOAI06*13.1	

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

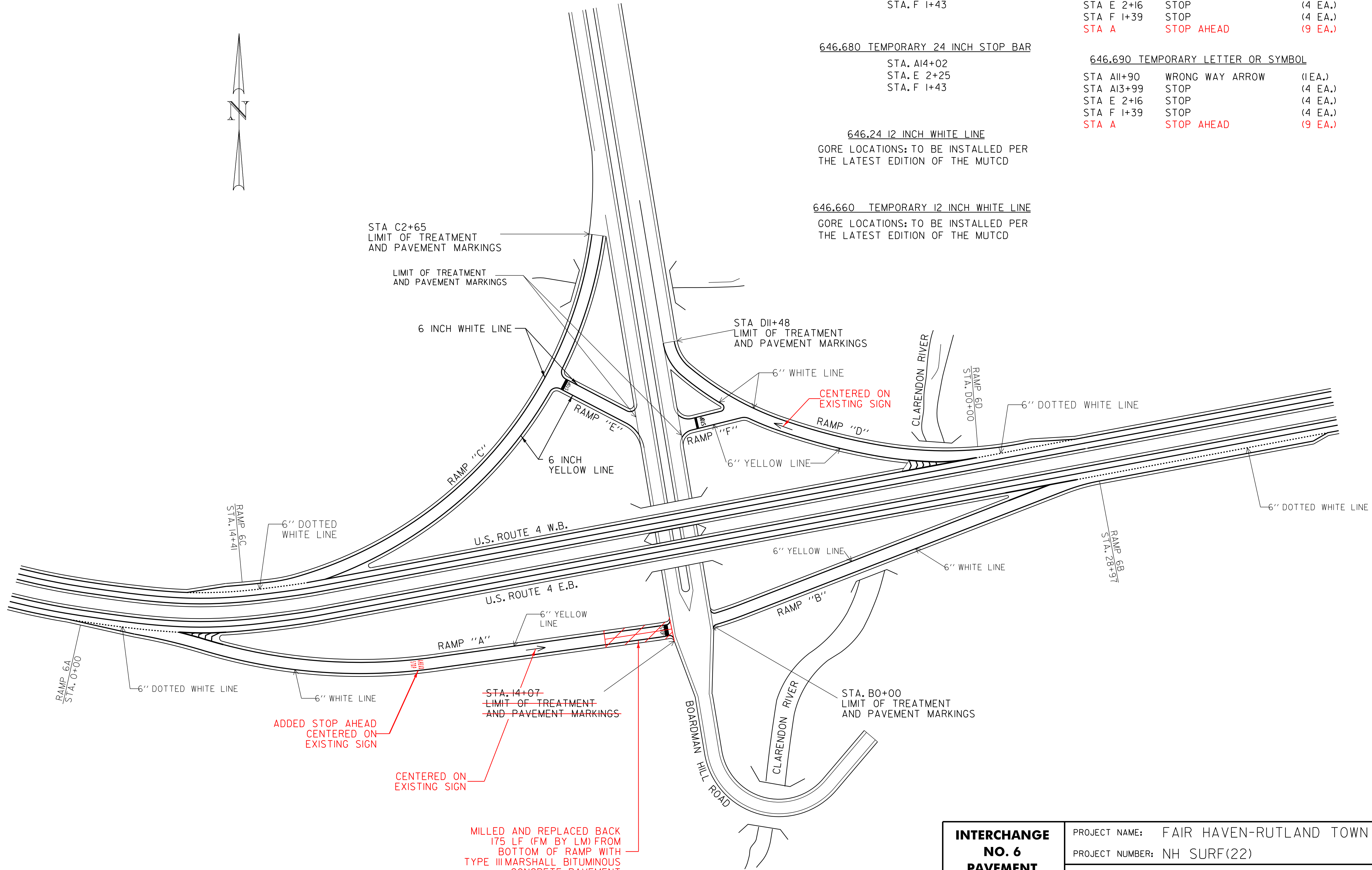
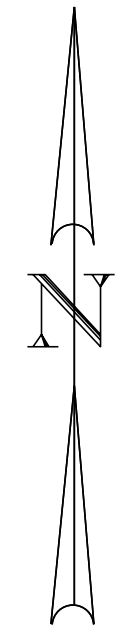


- ~~646.26 24 INCH STOP BAR~~
~~STA. C8+97~~
- ~~646.680 TEMPORARY 24 INCH STOP BAR~~
~~STA. C8+97~~
- 646.24 12 INCH WHITE LINE
GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE MUTCD
- ~~646.660 TEMPORARY 12 INCH WHITE LINE~~
~~GORE LOCATIONS: TO BE INSTALLED PER THE LATEST EDITION OF THE 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	PLOT DATE: 31-MAY-2013 11:55
	PROJECT NUMBER: NH SURF(22)	DRAWN BY: PVT. MGT.
	FILE NAME: I0BI06/I0BI06.dgn	CHECKED BY: PVT. MGT.
	PROJECT LEADER: M. FOWLER DESIGNED BY: PVT. MGT.	SHEET 14 OF 24

I0AI06*14.1



646.26 24 INCH STOP BAR

STA. A14+02
 STA. E 2+25
 STA. F 1+43

646.30 LETTER OR SYMBOL

STA A11+90 WRONG WAY ARROW (1EA.)
 STA A13+99 STOP (4 EA.)
 STA E 2+16 STOP (4 EA.)
 STA F 1+39 STOP (4 EA.)
 STA A STOP AHEAD (9 EA.)

646.680 TEMPORARY 24 INCH STOP BAR

STA. A14+02
 STA. E 2+25
 STA. F 1+43

646.690 TEMPORARY LETTER OR SYMBOL

STA A11+90 WRONG WAY ARROW (1EA.)
 STA A13+99 STOP (4 EA.)
 STA E 2+16 STOP (4 EA.)
 STA F 1+39 STOP (4 EA.)
 STA A STOP AHEAD (9 EA.)

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

ADDED STOP AHEAD CENTERED ON EXISTING SIGN

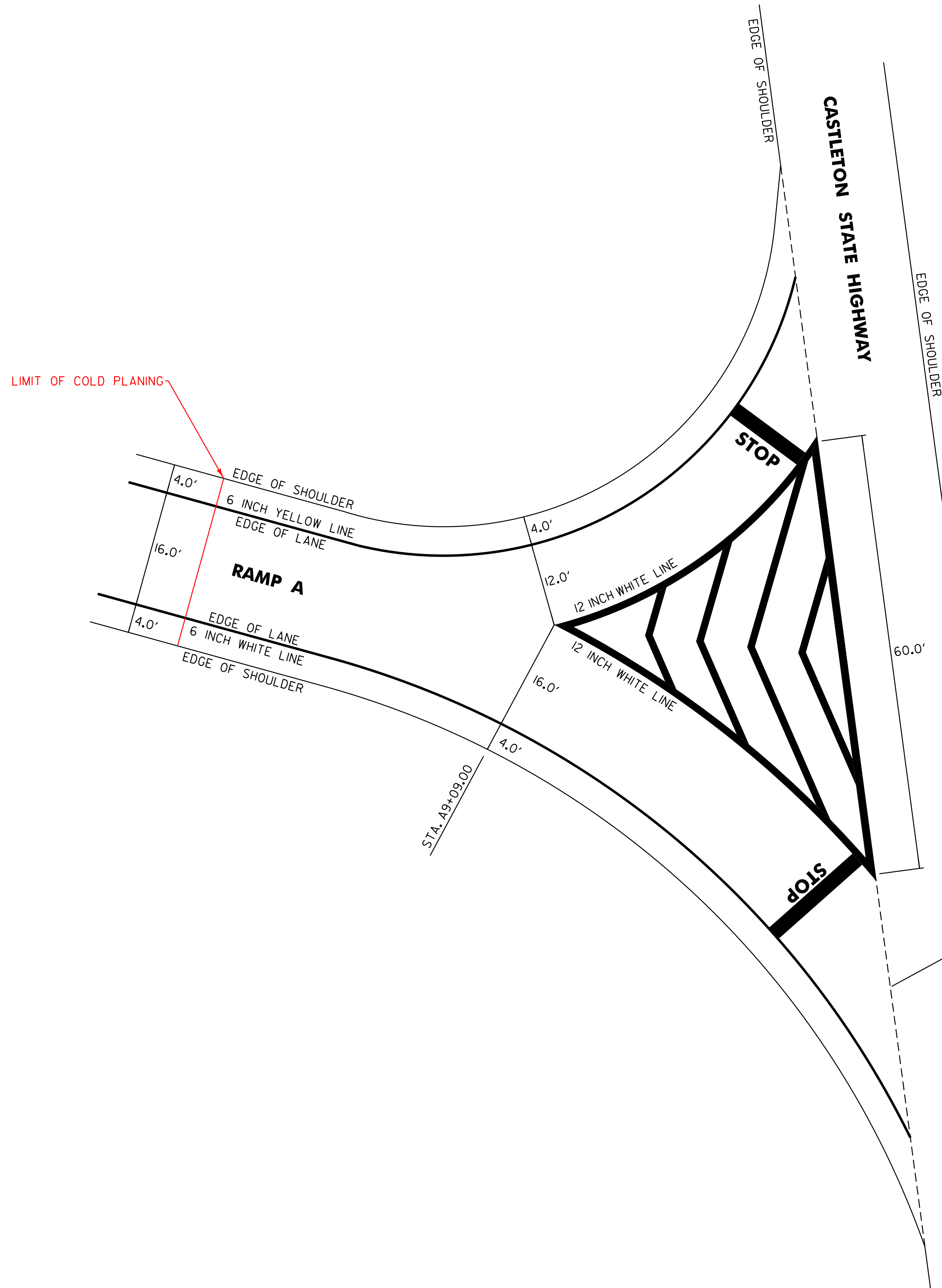
CENTERED ON EXISTING SIGN

MILLED AND REPLACED BACK 175 LF (FM BY LM) FROM BOTTOM OF RAMP WITH TYPE III MARSHALL BITUMINOUS CONCRETE PAVEMENT

NOT TO SCALE

INTERCHANGE NO. 6 PAVEMENT MARKING DETAIL SHEET

PROJECT NAME:	FAIR HAVEN-RUTLAND TOWN	PLOT DATE:	31-MAY-2013 11:55
PROJECT NUMBER:	NH SURF(22)	DRAWN BY:	PVT. MGT.
FILE NAME:	10B106/10B106.DGN	CHECKED BY:	PVT. MGT.
PROJECT LEADER:	M. FOWLER	SHEET	15 OF 24
DESIGNED BY:	PVT. MGT.		
10B106*15.1			



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

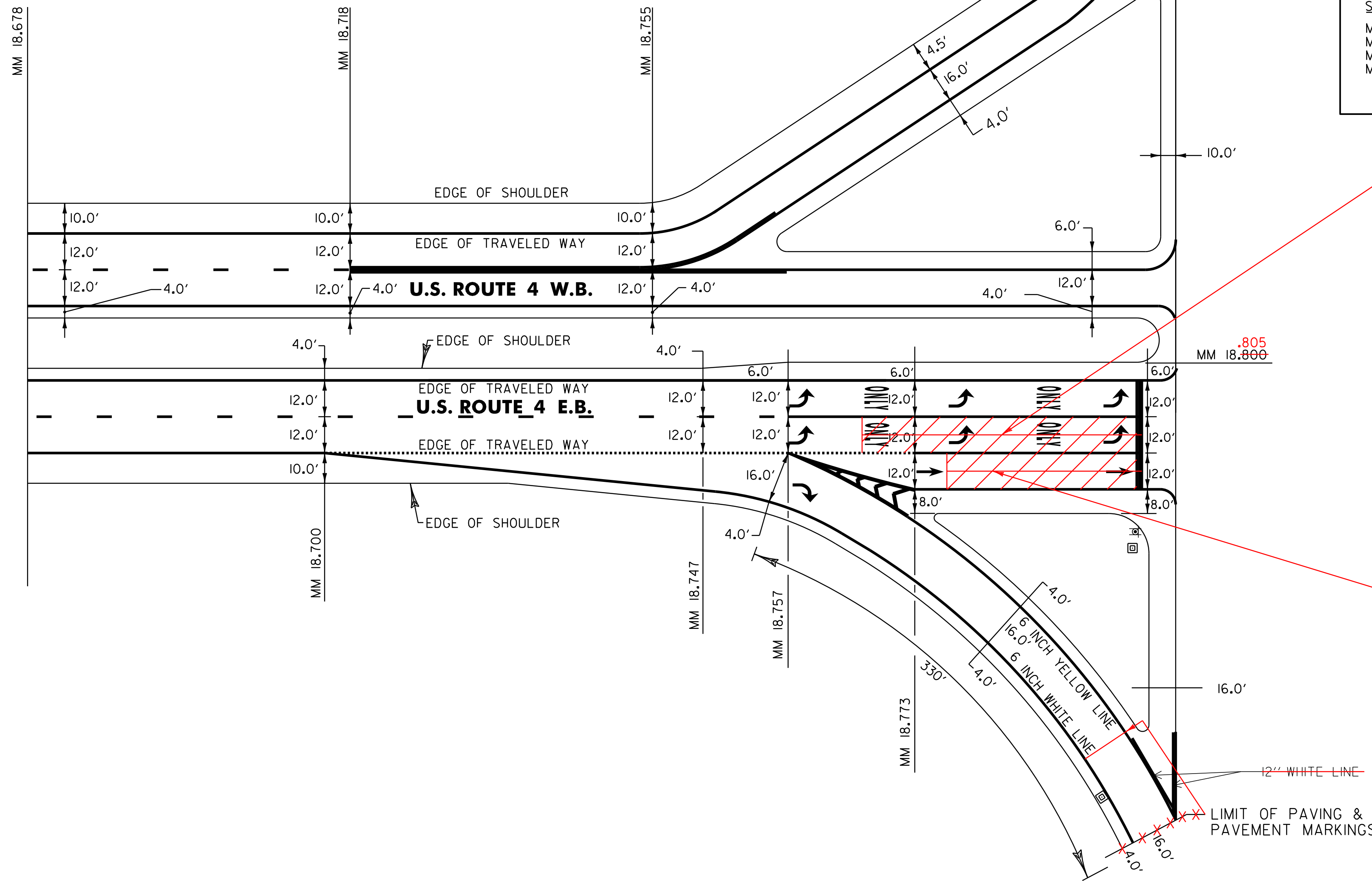
LIMIT OF COLD PLANING,
 PAVING AND PAVEMENT
 MARKINGS
 STA. A9+48.00

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: IOBIO6/IOBIO6.DGN	PLOT DATE: 31-MAY-2013 11:55
	PROJECT LEADER: M. FOWLER	DRAWN BY: PVT. MGT.
DESIGNED BY: PVT. MGT.	CHECKED BY: PVT. MGT.	
IOBIO6*16.1	SHEET 16 OF 24	

U.S. ROUTE 4 E.B. & W.B.
MM 18,805
END NH SURF(22)

LIMIT OF PAVING &
PAVEMENT MARKINGS



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 (CORE STRIPING)
MM 18.755 - MM 18.805 C & LT (CORE STRIPING)

646.660 TEMPORARY 12 INCH WHITE LINE

MM 18.718 - MM 18.755 C (CORE STRIPING)
MM 18.755 - MM 18.805 C & LT (CORE STRIPING)

646.214 6 INCH WHITE LINE

S=SOLID, D=DASHED

	LT	C	RT
MM 18.678 - MM 18.718	S	D	-
MM 18.678 - MM 18.755	S	D	-
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	C	RT
MM 18.678 - MM 18.718	S	D	-
MM 18.678 - MM 18.755	S	D	-
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	(1EA)
MM 18.758	RT, ARROW	(2 EA)
MM 18.773	RT, ARROW	(1EA)
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	(1EA)
MM 18.783	RT, ARROW	(1EA)
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	(1EA)
MM 18.799	LT, ARROW	(1EA)
MM 18.799	RT, ARROW	(1EA)

646.690 TEMPORARY LETTER OR SYMBOL

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

646.214 6 INCH WHITE LINE

MM 18.678 - MM 18.757	DASHED C
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 C
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 C
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 C
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

MILLED CENTER LANE BACK 140 LF (FM)
AND REPLACED WITH TYPE III MARSHALL
BITUMINOUS CONCRETE PAVEMENT

MILLED RIGHT LANE BACK 70 LF (FM)
AND REPLACED WITH TYPE III MARSHALL
BITUMINOUS CONCRETE PAVEMENT

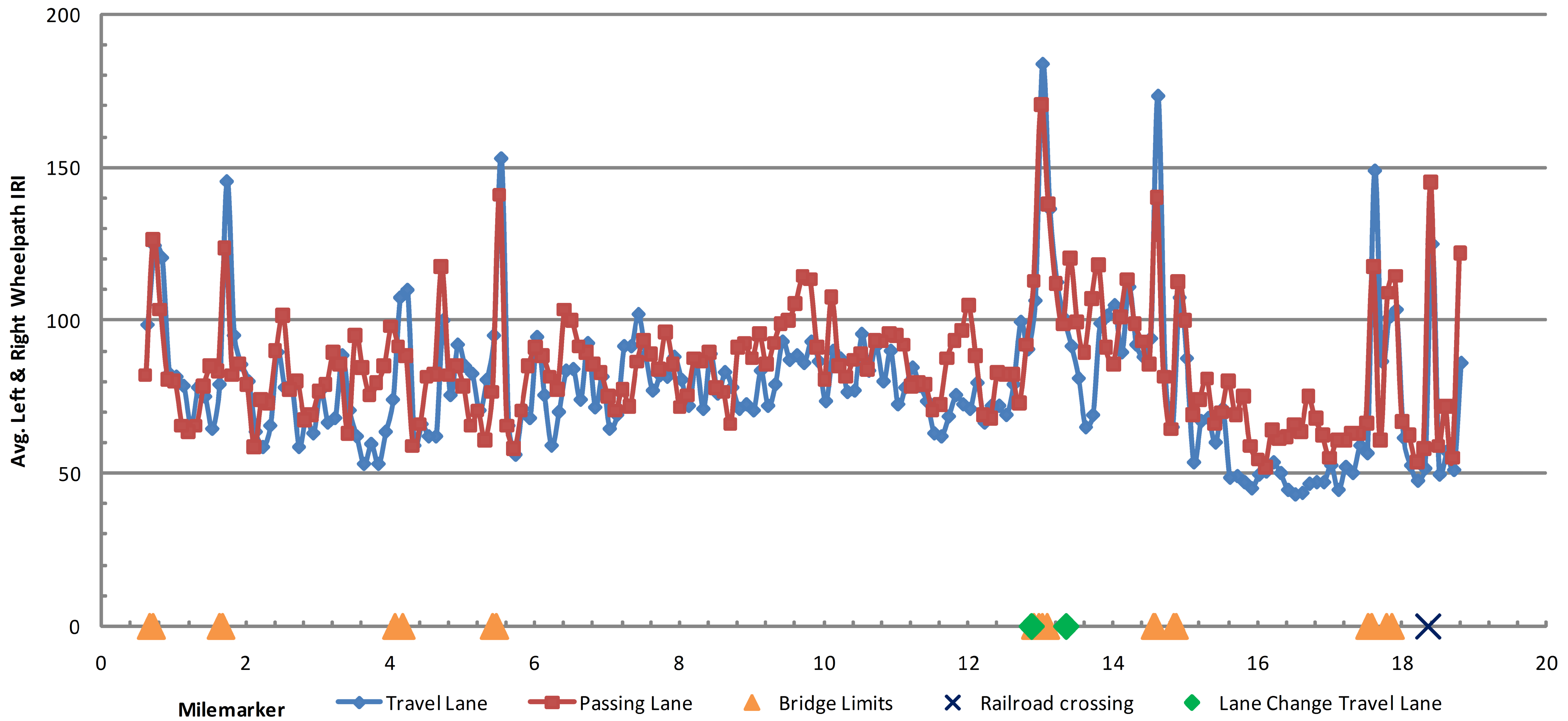
NOT TO SCALE

US 7 INTERCHANGE PAVEMENT MARKING DETAIL SHEET	PROJECT NAME: FAIR HAVEN-RUTLAND TOWN	
		PROJECT NUMBER: NH SURF(22)
	FILE NAME: IOBIO6/IOBIO6.DGN	PLOT DATE: 31-MAY-2013 11:55
	PROJECT LEADER: M. FOWLER	DRAWN BY: PVT. MGT.
	DESIGNED BY: PVT. MGT.	CHECKED BY: PVT. MGT.
	IOBIO6*17.1	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: IOBIO6/IOBIO6.DGN

PROJECT LEADER: M. FOWLER

DESIGNED BY: PVT. MGT.

IOBIO6*18.1

PLOT DATE: 31-MAY-2013 11:55

DRAWN BY: PVT. MGT.

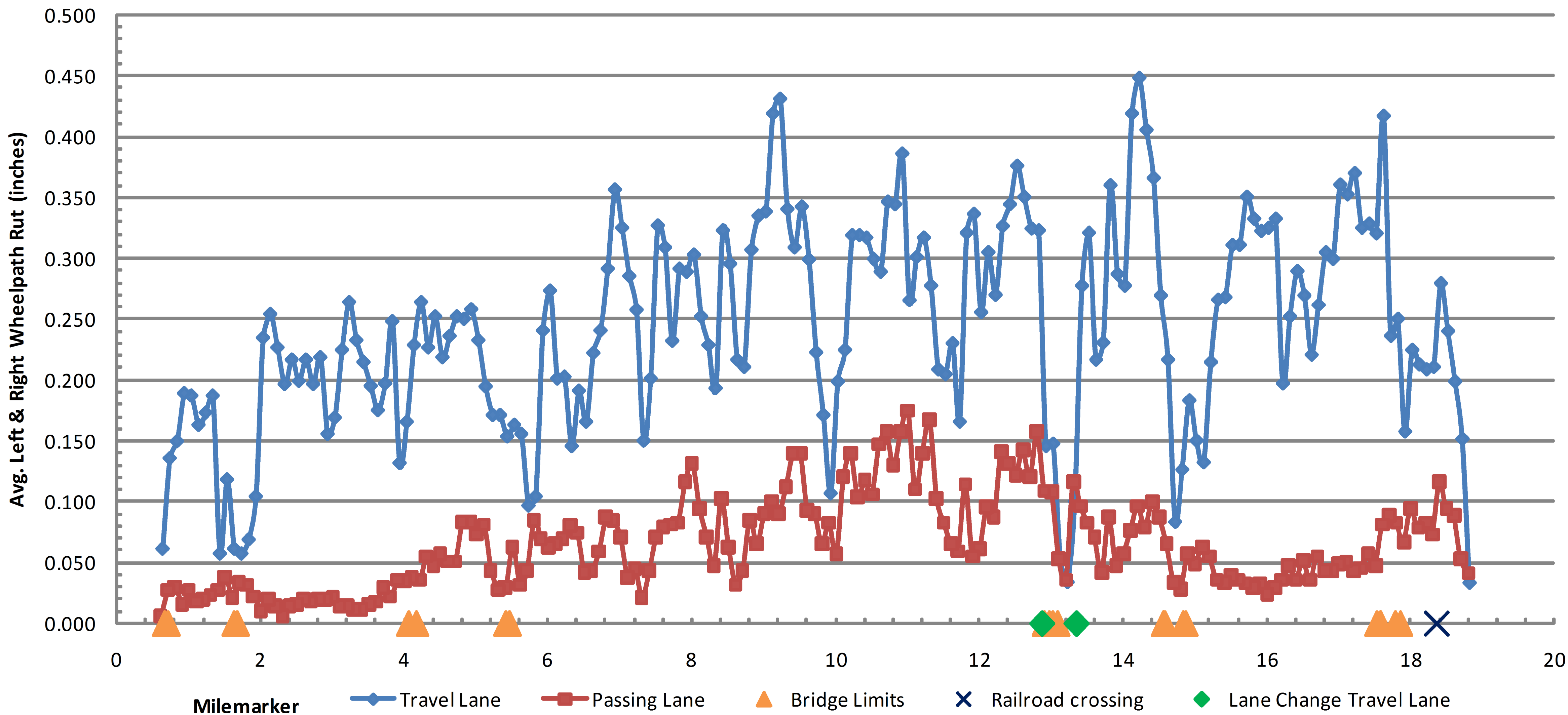
CHECKED BY: PVT. MGT.

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)

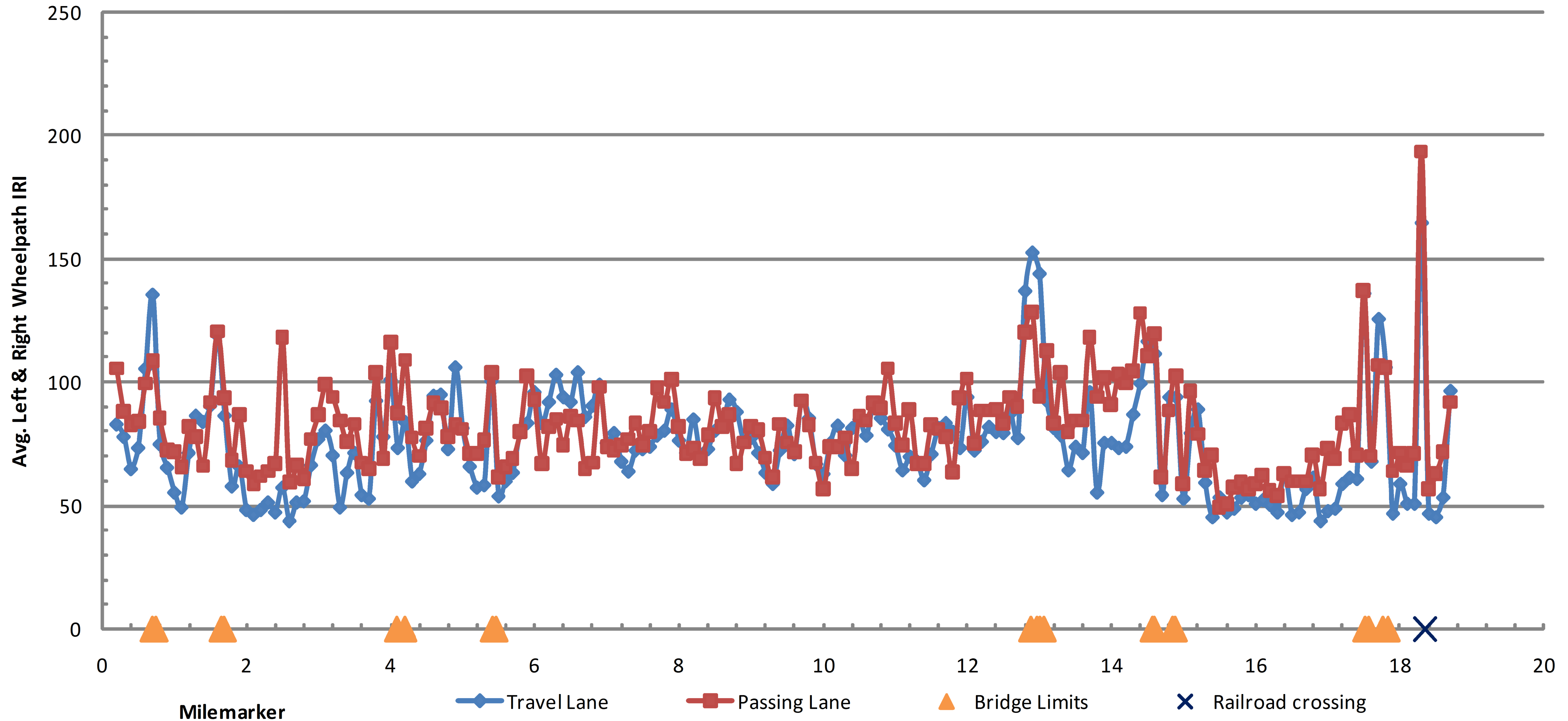
FILE NAME: IOBIO6/IOBIO6.DGN
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
IOBIO6*19.1

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)

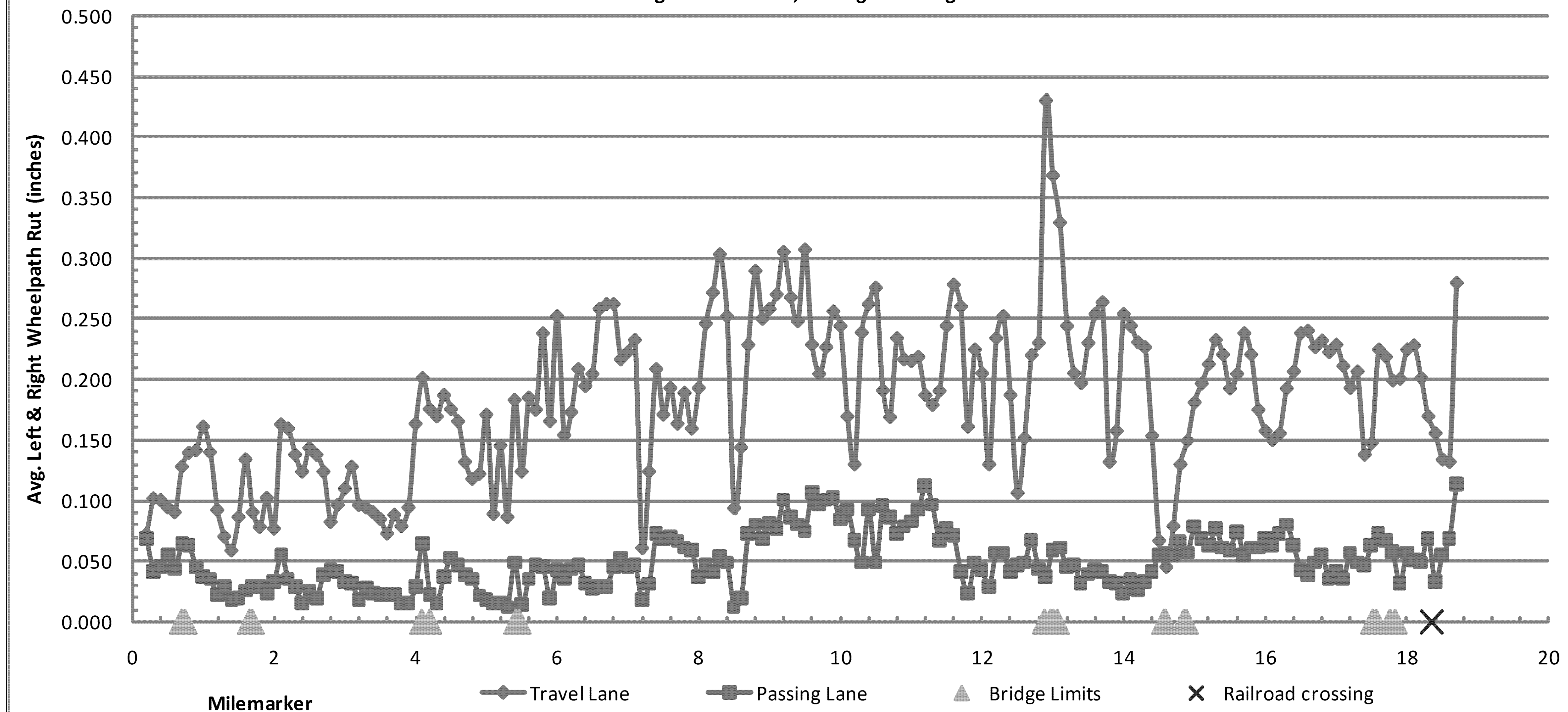
FILE NAME: IOBIO6/IOBIO6.DGN
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
IOBIO6#20.I

PLOT DATE: 31-MAY-2013 11:56
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 20 OF 24

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

Profiled 7-12-11

Travel Lane Avg. Rut = 0.183", Passing Lane Avg. Rut = 0.050"



**EASTBOUND
RUT
DATA
INFORMATION
SHEET**

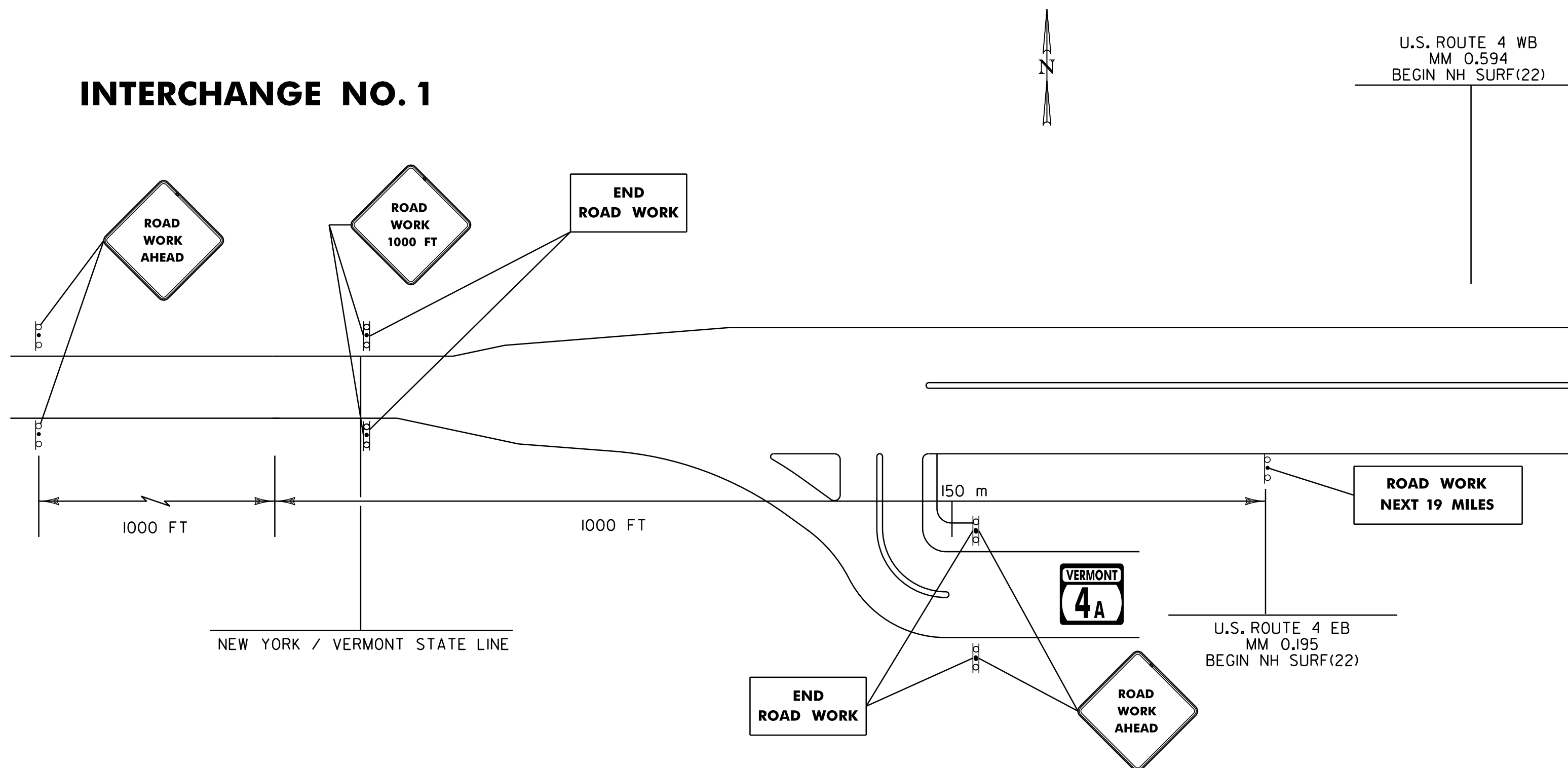
PROJECT NAME: FAIR HAVEN-RUTLAND TOWN

PROJECT NUMBER: NH SURF(22)

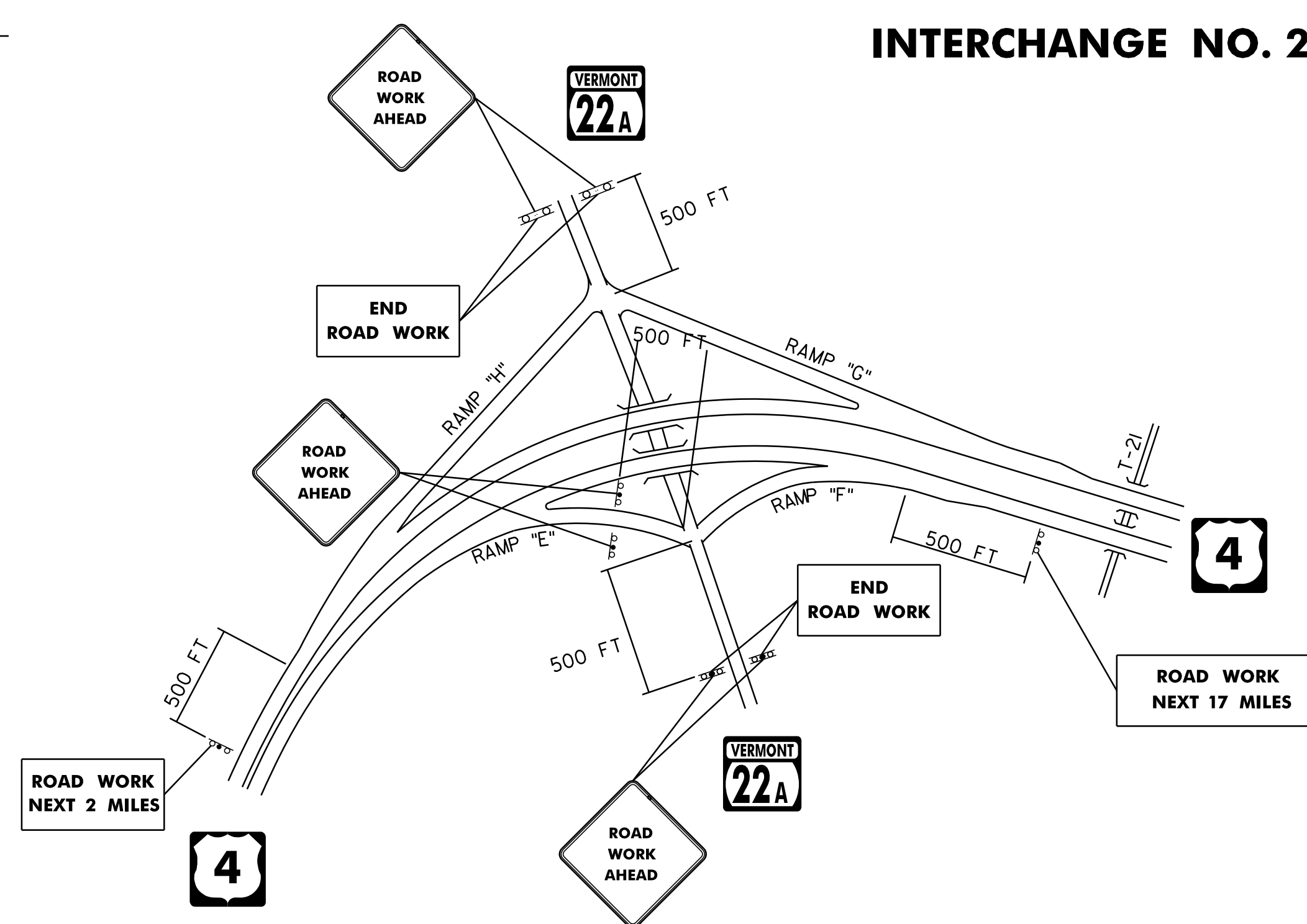
FILE NAME: IOBIO6/IOBIO6.DGN
PROJECT LEADER: M. FOWLER
DESIGNED BY: PVT. MGT.
IOBIO6*2I.I

PLOT DATE: 12-AUG-2011
DRAWN BY: PVT. MGT.
CHECKED BY: PVT. MGT.
SHEET 21 OF 24

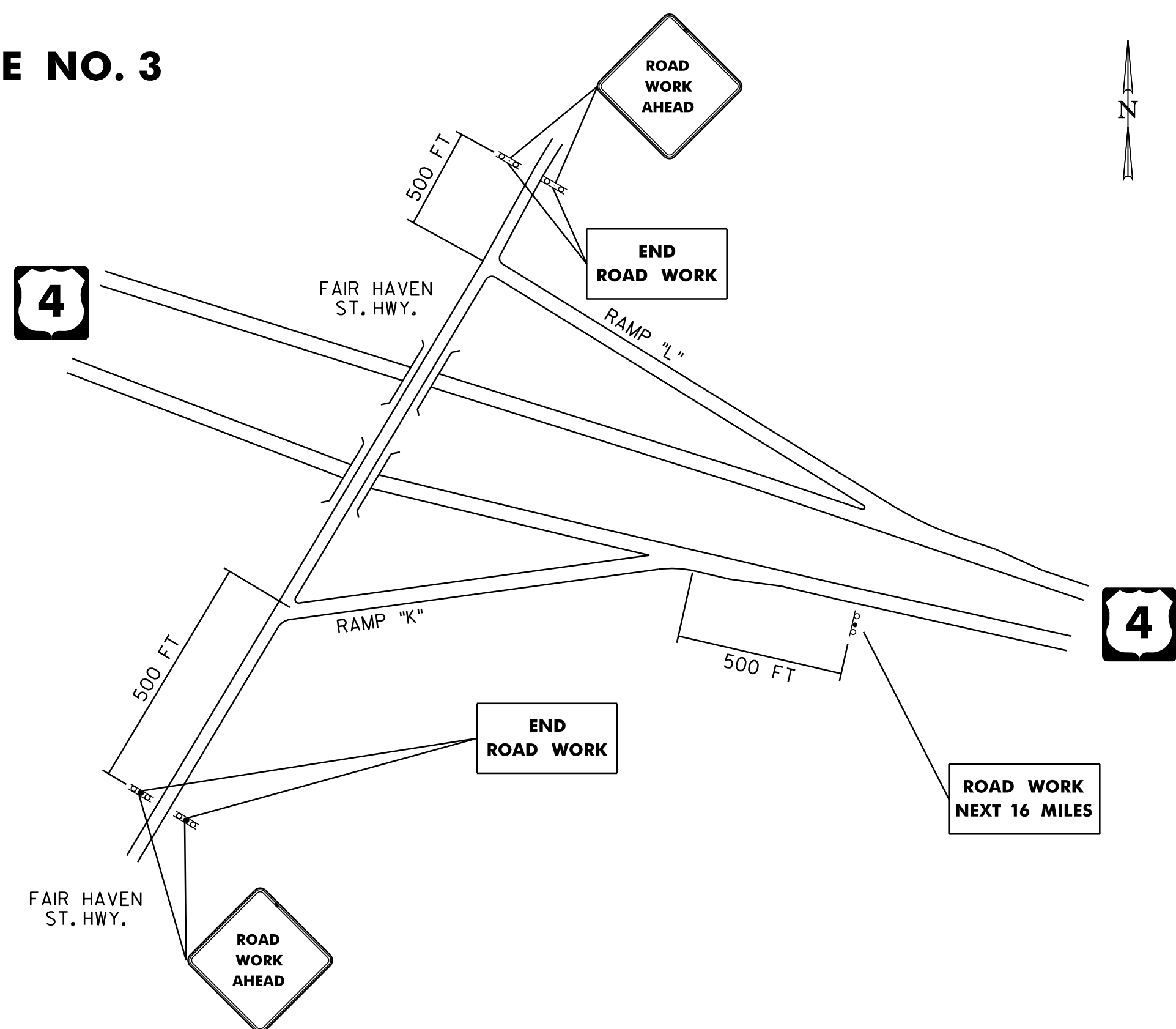
INTERCHANGE NO. 1



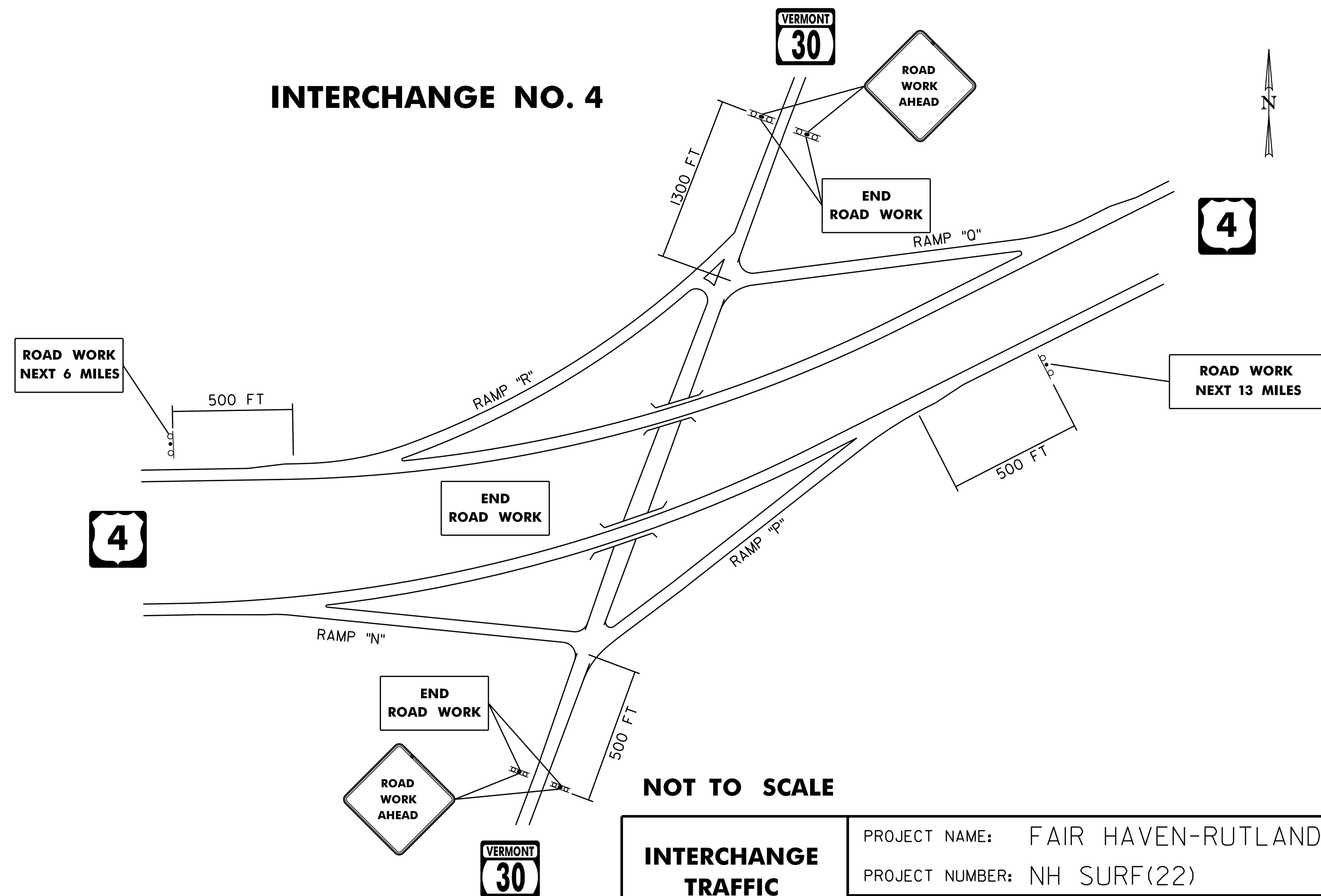
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INTERCHANGE NO. 3



INTERCHANGE NO. 4



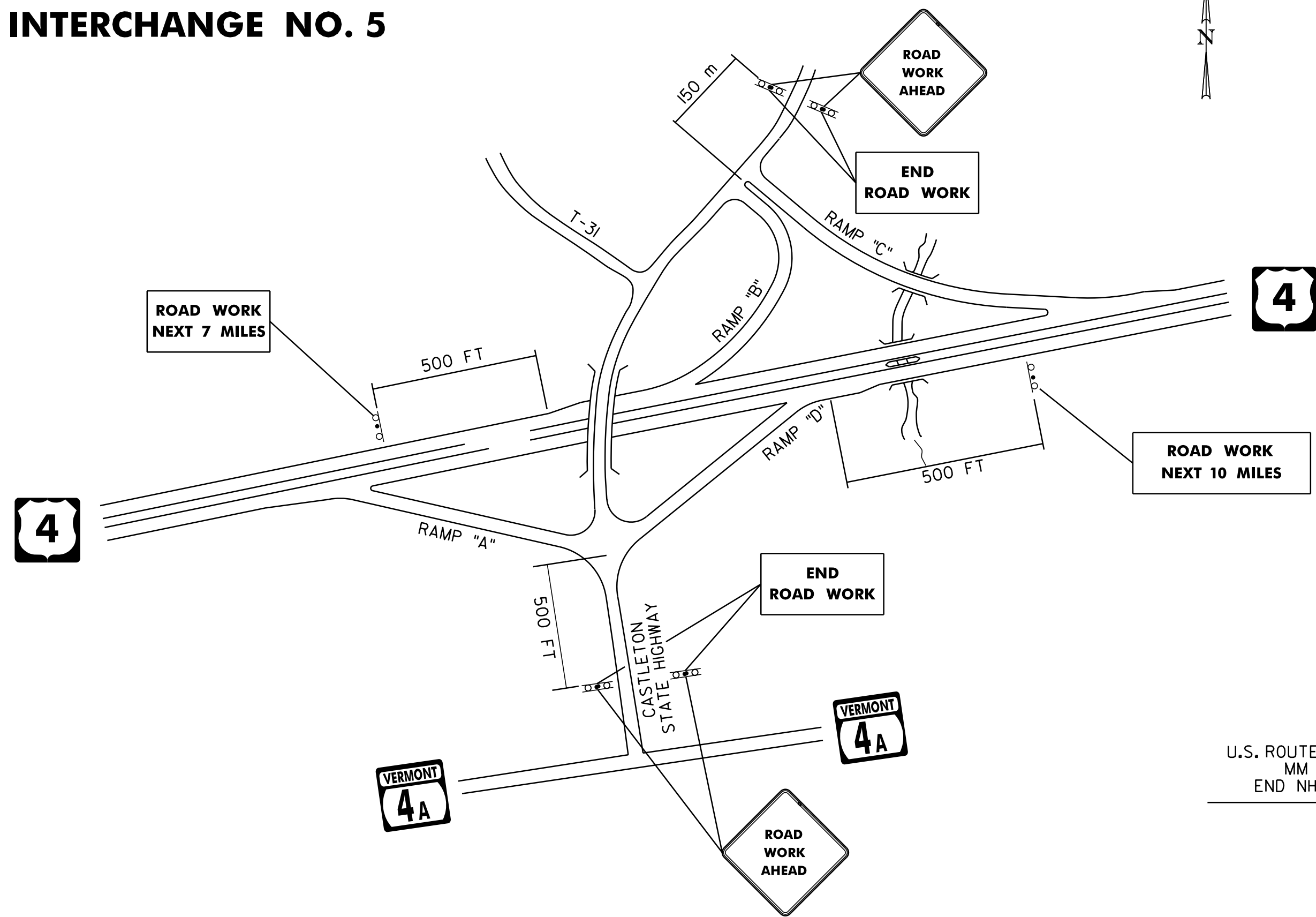
NOTE:
SEE STANDARD E-100 FOR ADDITIONAL SIGN PLACEMENT DETAILS

NOT TO SCALE

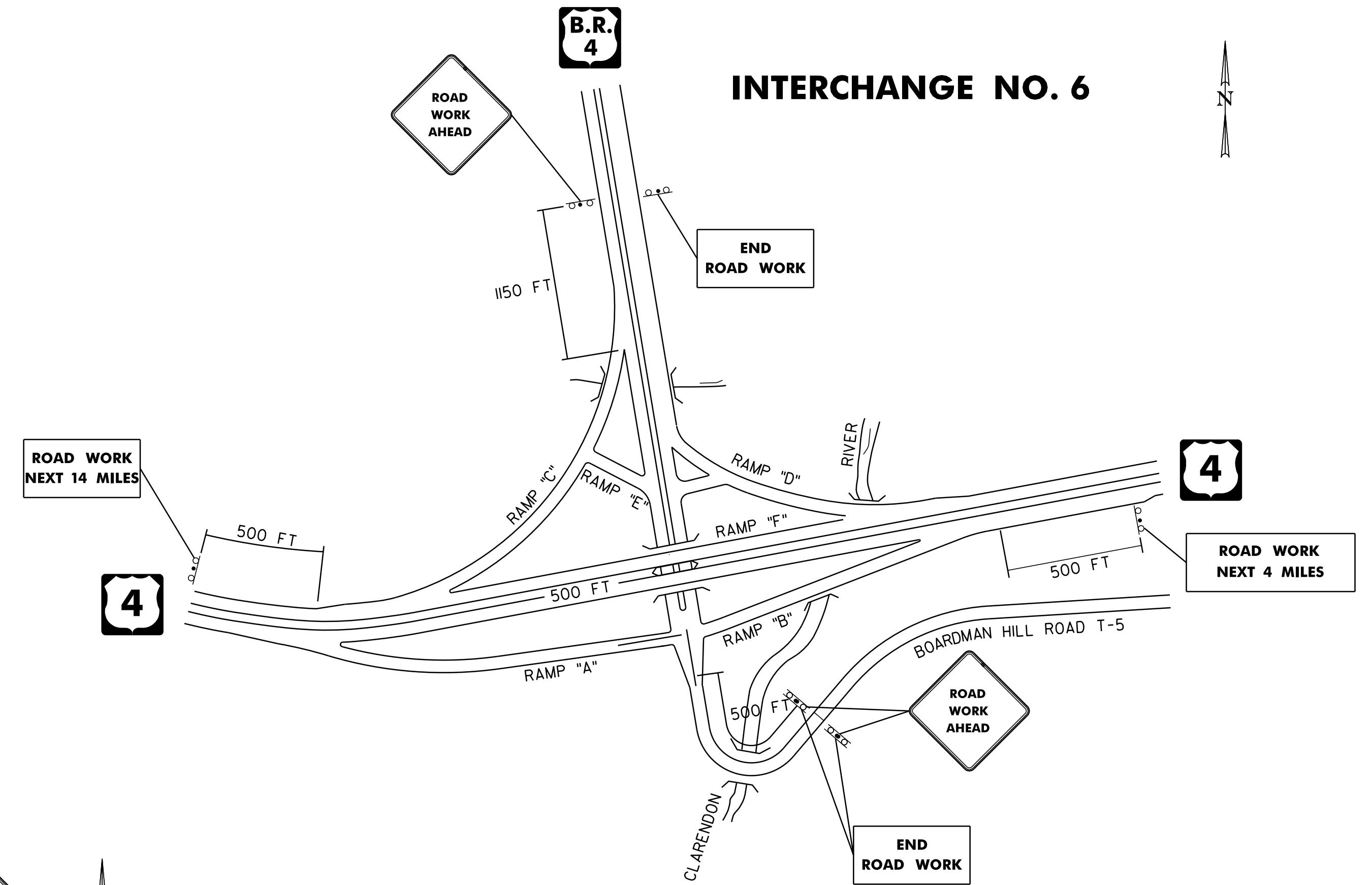
INTERCHANGE TRAFFIC CONTROL SHEET 1

PROJECT NAME: FAIR HAVEN-RUTLAND TOWN	PLOT DATE: 31-MAY-2013 11:56
PROJECT NUMBER: NH SURF(22)	DRAWN BY: PVT. MGT.
FILE NAME: 10B106/10B106.DGN	CHECKED BY: PVT. MGT.
PROJECT LEADER: M. FOWLER	SHEET 22 OF 24
DESIGNED BY: PVT. MGT.	
10B106#22.1	

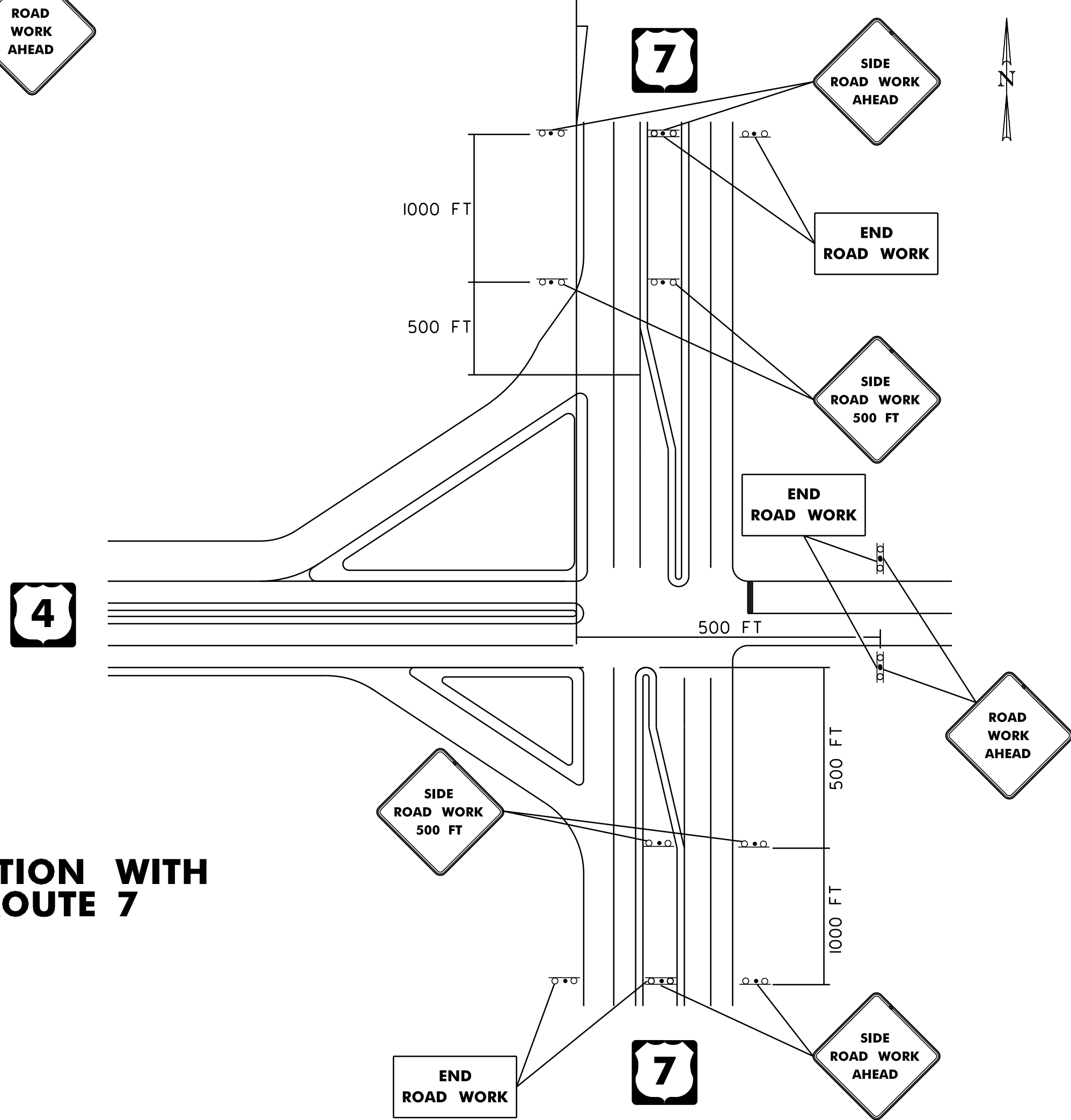
INTERCHANGE NO. 5



INTERCHANGE NO. 6



U.S. ROUTE 4 EB & WB
MM 18.805
END NH SURF(22)



**INTERSECTION WITH
U.S. ROUTE 7**

NOT TO SCALE

INTERCHANGE TRAFFIC CONTROL SHEET 2	PROJECT NAME: FAIR HAVEN-RUTLAND TOWN	PLOT DATE: 31-MAY-2013 11:56
	PROJECT NUMBER: NH SURF(22)	DRAWN BY: PVT. MGT.
	FILE NAME: 10B106/10B106.DGN	CHECKED BY: PVT. MGT.
	PROJECT LEADER: M. FOWLER DESIGNED BY: PVT. MGT. 10B106#23.I	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 1/2 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.I

PLOT DATE: 31-MAY-2013 11:56

DRAWN BY: PVT. MGT.

CHECKED BY: PVT. MGT.

SHEET 24 OF 24