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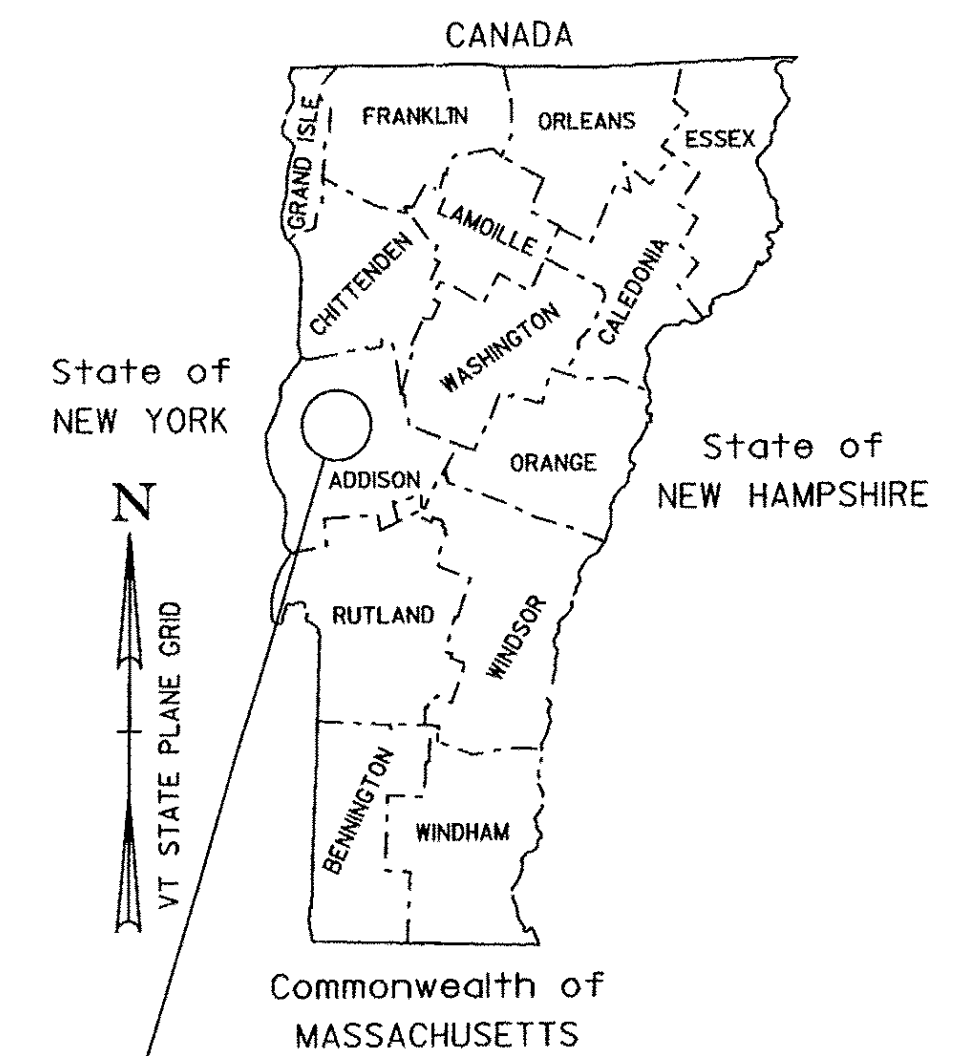
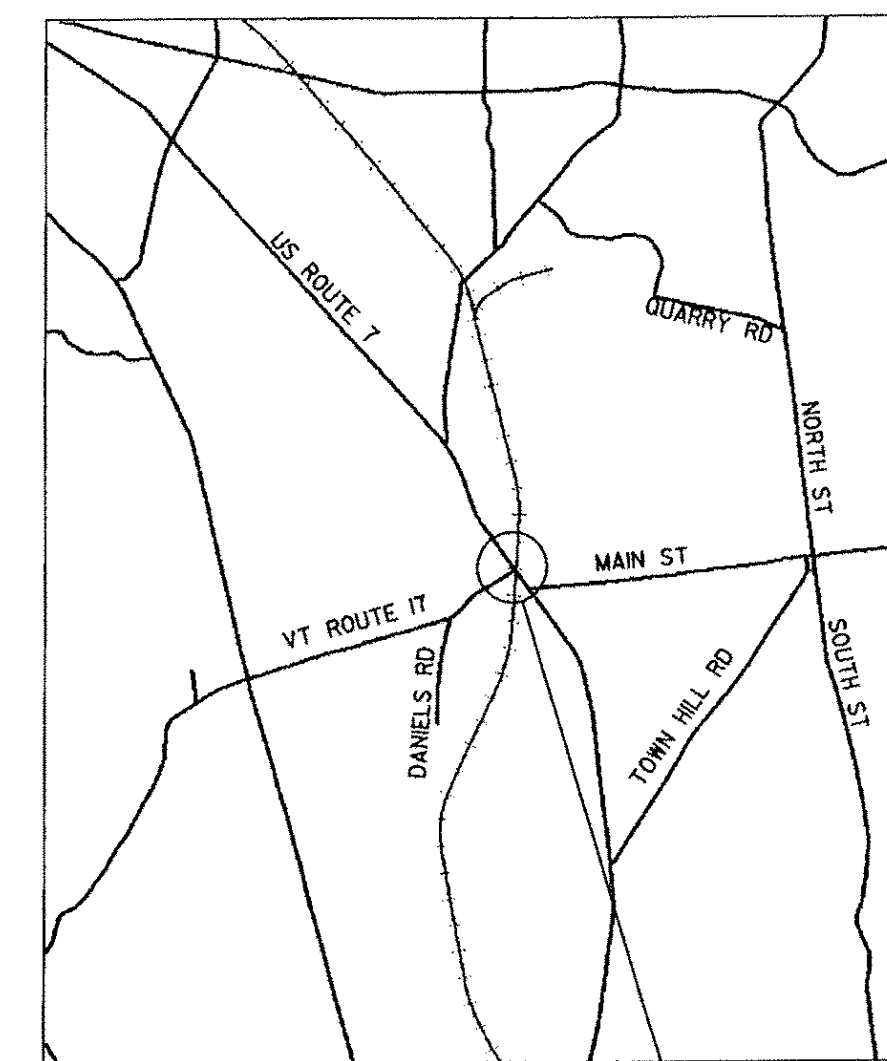
DATE

- AUG. 13, 2007
- JAN. 02, 2004
- MAY 30, 2003
- JUN. 30, 2003
- MAY 01, 2004
- MAR. 01, 2004
- JUN. 08, 2009
- AUG. 08, 1995
- AUG. 08, 1995
- AUG. 08, 1995
- AUG. 18, 1995
- MAY 01, 2004
- JUN. 08, 2009
- JUN. 30, 2003
- OCT. 12, 2000
- AUG. 18, 1995
- JAN. 03, 2000
- JAN. 03, 2000
- NOV. 15, 2002

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**



**PROPOSED IMPROVEMENT
RAIL PROJECT
COUNTY OF ADDISON
TOWN OF NEW HAVEN**



VERMONT RAILWAY; US ROUTE 7 (RURAL PRINCIPAL ARTERIAL)

PROJECT LOCATION: THE INTERSECTION OF US ROUTE 7 MP 5.46 AND VERMONT RAILWAY MP 95.27

PROJECT DESCRIPTION: THE CONSTRUCTION OF A NEW RAILROAD CROSSING SIGNAL SYSTEM INCLUDING NEW SURFACE, PAVEMENT MARKINGS AND SIGNAGE.

LENGTH OF ROADWAY: 245.10 FEET
 LENGTH OF RAILROAD: 369.62 FEET
 LENGTH OF PROJECT: 369.92 FEET

RECORD PLANS

CONTRACTOR: ECI RAIL CONTRACTORS, INC. - SO. BURLINGTON, VT

RESIDENT ENGINEER: DALE NORTON

CONSTRUCTION BEGAN: OCTOBER 4, 2010

CONSTRUCTION COMPLETE: JUNE 16, 2011

RECORD PLANS BY: DALE NORTON & JENNA HYDE

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

BY Dale R. Norton RESIDENT ENGINEER
 DATE 12/03/12

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.

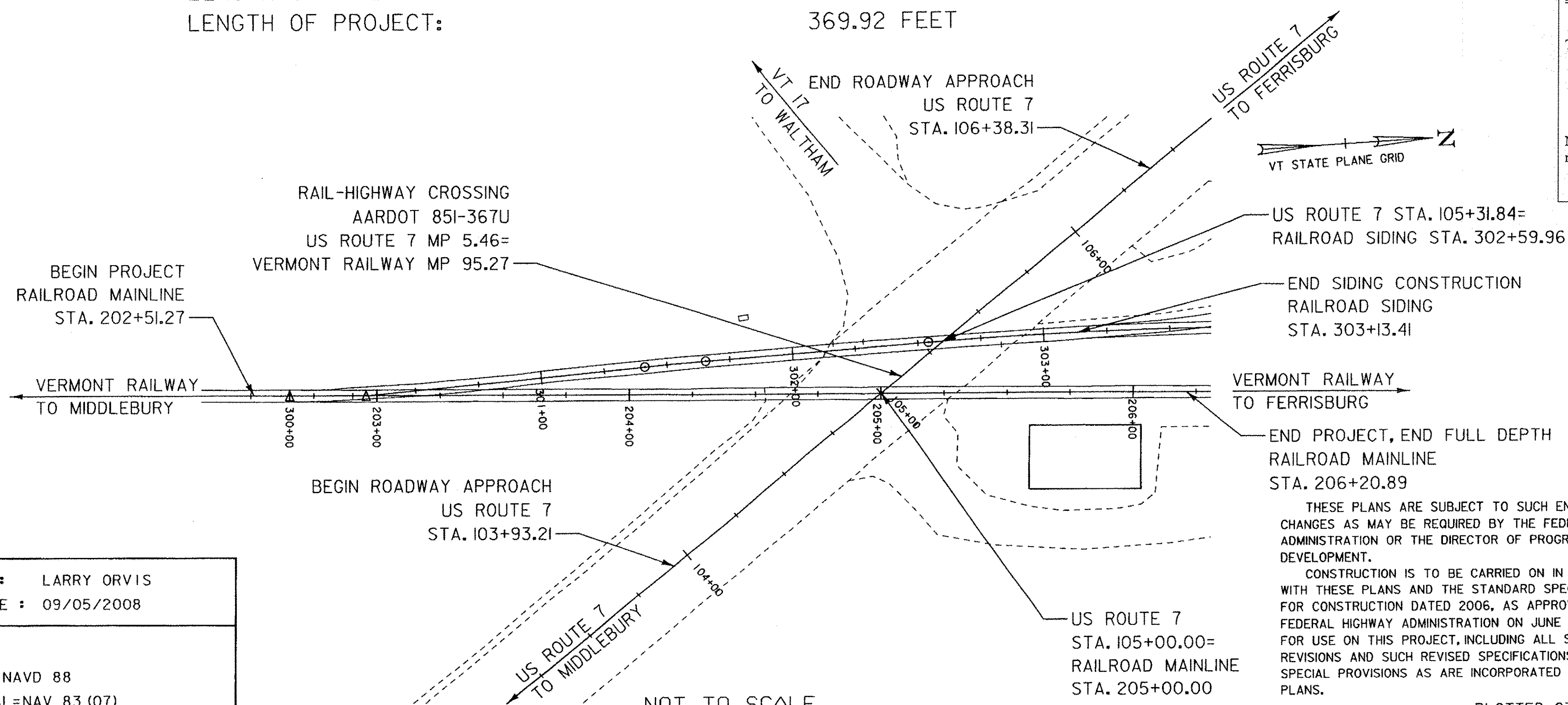
QUALITY ASSURANCE PROGRAM: LEVEL 2

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 : LARRY ORVIS
 SURVEYED DATE : 09/05/2008

DATUM
 VERTICAL=NAVD 88
 HORIZONTAL=NAV 83 (07)



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.

PLOTTED 03-AUG-2010

DIRECTOR OF PROGRAM DEVELOPMENT

APPROVED [Signature] DATE 5/6/10

PROJECT MANAGER : J. B. MCCARTHY

PROJECT NAME : NEW HAVEN

PROJECT NUMBER : RAIL 5307 (16)

SHEET 1 OF 18 SHEETS

GENERAL NOTES

1. CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION (2006), AREMA (2006), AND CURRENT MUTCD.
2. ALL WORK IS TO BE PERFORMED WITHIN THE RAILROAD AND HIGHWAY RIGHT-OF-WAY.
3. SIGNAL CONDUIT 4" GALVANIZED STEEL (HEAVY WALL) TO BE INSTALLED WITH SECURED END CAPS IN LOCATIONS DIRECTED BY THE ENGINEER. PAYMENT FOR ITEM TO BE INCLUDED IN ITEM 900.645 - SPECIAL PROVISION (RECONSTRUCT RAIL-HIGHWAY CROSSING) (US ROUTE 7-AARDOT 851-367U)
4. IF NECESSARY THE OUTLET OF THE UNDERDRAIN SHALL BE ADJUSTED IN THE FIELD AS DIRECTED BY THE ENGINEER.
5. ALL RAIL JOINTS WITHIN THE CROSSING AREA AND 50'-0" BEYOND, UNLESS OTHERWISE SHOWN, WILL BE CROPPED AND WELDED IN ACCORDANCE WITH THE LATEST REVISION OF A.R.E.M.A. SPECIFICATIONS AT AN OFF-SITE ELECTRIC WELDING PLANT. WELDING CAN BE DONE IN FIELD UTILIZING THERMITE WELDING WITH ADVANCE APPROVAL FROM THE ENGINEER. WELDED JOINTS SHALL BE GROUND TO CONFORM TO THE SHAPE OF THE RAIL ON GAUGE AND FIELD SIDES.
6. TIE SPACING UNDER CWR AREA SHALL BE 18 INCHES ON CENTER OR AS REQUIRED IN CROSSING PANEL AREA BY MANUFACTURER.
7. NEW 7"x9"x10'-0" AND 7"x9"x8'-6" TIES SHALL BE USED IN CROSSING AREA AS SHOWN. TIES IN APPROACH AREAS SHALL BE REPLACED AS RECOMMENDED BY THE RAILROAD AND APPROVED BY THE ENGINEER. TIES REPLACED IN APPROACH AREAS SHALL BE PAID SEPARATELY UNDER PAY ITEM 900.620 - SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES).
8. TIE PLATES SHALL BE NEW 14 INCH PLATES MANUFACTURED FOR THE RAIL USED. PLATES SHALL BE INSPECTED AND APPROVED BY THE RAILROAD AND THE ENGINEER. RAIL FASTENERS SHALL BE CUT TRACK SPIKES. SPECIFIC RAIL FASTENING SYSTEM SHALL BE RECOMMENDED BY THE RAILROAD AND APPROVED BY THE ENGINEER. TIE PLATES ON THE APPROACH AREAS SHALL BE INCIDENTAL TO PAY ITEM 900.620 - SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES).
9. BALLAST SHALL EXTEND 6' BEYOND END OF TIES AND SLOPED 1:2 TO THE ROADBED.
10. TYPE AND DESIGN OF PRECAST CONCRETE CROSSING PANELS SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL FROM THE ENGINEER.
11. MANUFACTURERS SPECIFICATIONS SHALL BE FOLLOWED FOR THE INSTALLATION OF CONCRETE CROSSING PANELS.
12. INSULATED JOINTS ON THE SIDING TRACK ARE TO BE REPLACED IN THE SAME LOCATION AS EXISTING. MANUFACTURERS SPECIFICATIONS SHALL BE FOLLOWED FOR THE INSTALLATION OF INSULATED JOINTS.
13. APPROACH ASPHALT ROADWAY PAVING SHALL FOLLOW LATEST EDITION OF THE AGENCY'S STANDARD SPECIFICATIONS FOR CONSTRUCTION AND SHALL BE INSTALLED WITH PAVING MACHINE WITH LIFTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
14. IF EXISTING TRACK IS CONTINUOUS WELDED RAIL, JOINTS SHALL BE FIELD WELDED OR BOLTED AS SHOWN ON THE PLANS. TRANSITION RAIL SHALL BE NEW AND MATCH RAIL SECTION THROUGH CROSSING.
15. IN THE APPROACH AREA, THE CONTRACTOR SHALL REMOVE THE TRACK, INCLUDING RAIL, TIES, AND OTM NECESSARY TO EXCAVATE AND CONSTRUCT THE TRANSITION TO EXISTING BALLAST DEPTH, AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL PREPARE THE SUBGRADE, INSTALL THE GEOTEXTILE UNDER RAILROAD BALLAST, INSTALL THE BALLAST, RECONSTRUCT THE TRACK THAT WAS REMOVED, ADD BALLAST, LINE, TAMP, AND SURFACE THE TRACK IN THE APPROACH AREA TO OBTAIN A SMOOTH TRANSITION BETWEEN THE EXISTING AND PROPOSED TRACK TO THE SATISFACTION OF THE ENGINEER AND RAILROAD. THE WORK OF TRACK REMOVAL, TRACK RECONSTRUCTION, LINE, TAMP, AND SURFACE TRACK IN THE APPROACH AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 900.645 SPECIAL PROVISION (RECONSTRUCT RAIL-HIGHWAY CROSSING) (US ROUTE 7-AARDOT 851-367U). PAYMENT FOR EXCAVATION IN THE APPROACH AREA SHALL BE MADE UNDER ITEM 203.15 COMMON EXCAVATION. PAYMENT FOR BALLAST USED IN THE APPROACH AREA SHALL BE MADE UNDER ITEM 900.608 SPECIAL PROVISION (RAILROAD BALLAST). IN THE APPROACH AREA, PAYMENT FOR REMOVAL OF EXISTING TIES AND REPLACEMENT WITH NEW TIES, AS DIRECTED BY THE ENGINEER, SHALL BE MADE UNDER ITEM 900.620 SPECIAL PROVISION (REMOVAL AND REPLACEMENT OF CROSS TIES).
16. THE AREA BETWEEN THE TWO TRACKS AT THE HIGHWAY INTERSECTION SHALL BE FILLED WITH CONCRETE, HIGH PERFORMANCE CLASS AA. THE CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 501 AND SHALL BE CURED BY THE WATER CURING METHOD. DOWELS FOR RIGID PAVEMENT CONSTRUCTION JOINTS (CJ) SHALL BE GRADE 60, WITH A YIELD STRENGTH $F_y = 60,000$ psi, AND SHALL BE SMOOTH EPOXY COATED.
17. THE CONTRACTOR SHALL PROVIDE, LOCATE AND MAINTAIN FOUR PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) AT FOUR LOCATIONS, AS APPROVED BY THE ENGINEER. THE MESSAGE BOARDS SHALL ADVISE THE TRAVELING PUBLIC WITH THE FOLLOWING MESSAGE:
PHASE 1: "RR XING CONST"
PHASE 2: "AT INT US & VT 17".
THE PCMS SHALL BE PLACED AT LOCATIONS SUCH AS THE INTERSECTION OF ROUTE 23 AND VT 17 ON THE WEST, ALONG ROUTE 7 TO THE SOUTH AND ON VT 17 TO THE EAST AND TO THE WEST OF THE CONSTRUCTION SITE.
18. CONTRACTOR SHALL AVOID DAMAGING THE EXISTING FIBER OPTIC LINE. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S COST.

TRAFFIC DATA

RAILROAD: V=40MPH (PASSENGER)
V=25MPH (FREIGHT)

HIGHWAY:
ROUTE 7 V=40MPH
ADT=8100 (2008 ESTIMATED)
VT 17 V=35MPH
ADT=1300 (ACT. TUBE COUNT)

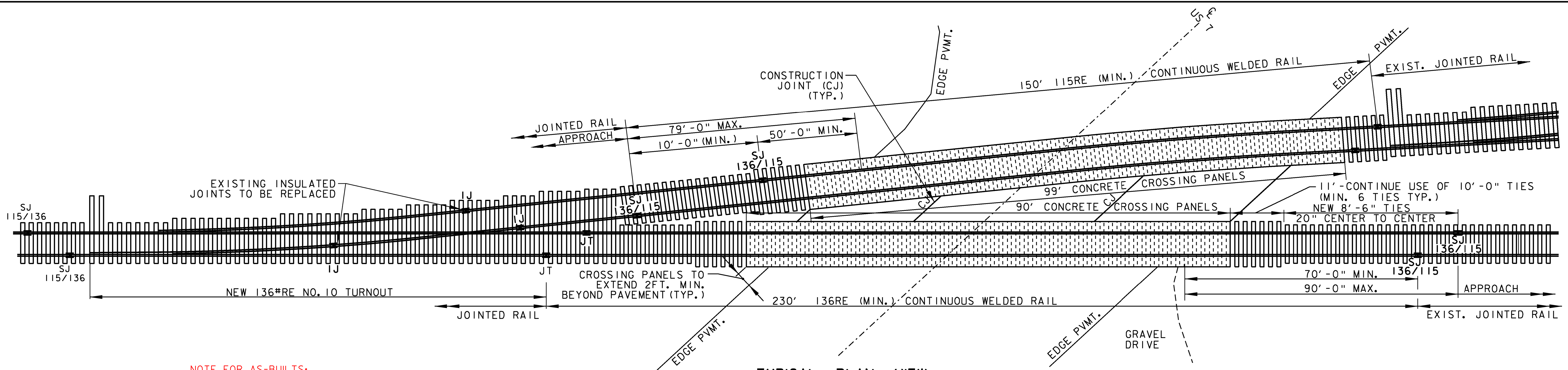
PROJECT NAME: NEW HAVEN
PROJECT NUMBER: RAIL 5307(16)

FILE NAME: 09g070/RAIL/bdr_GEN.dgn PLOT DATE: 04-AUG-2010
PROJECT LEADER: J.B.McCARTHY DRAWN BY: M.FESSEL
DESIGNED BY: M.GAGULIC CHECKED BY: N.LUGO
GENERAL NOTES SHEET 2 OF 18

QUANTITY SHEET 1

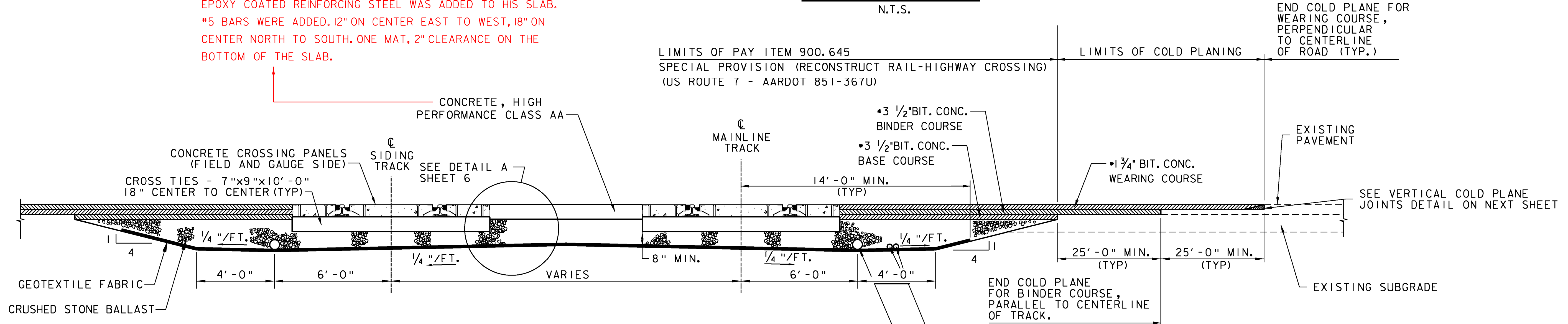
SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
							ROADWAY	EROSION CONTROL	RAILROAD	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
							120		90		210		CY	COMMON EXCAVATION	203.15				
							55				55		CY	EXCAVATION OF SURFACES AND PAVEMENTS	203.28				
							120				120		CY	EARTH BORROW	203.30				
							1				1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22				
							750				750		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10				
							15				15		CY	AGGREGATE SURFACE COURSE	401.10				
							2				2		CWT	EMULSIFIED ASPHALT	404.65				
							1				1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50				
							22				22		CY	CONCRETE, HIGH PERFORMANCE CLASS AA	501.32				
							70				70		LB	EPOXY COATED REINFORCING STEEL QTY ADDED SEE SHEET 5 FOR DETAILS	507.17				
							10				10		MGAL	DUST CONTROL WITH WATER	609.10				
							0.25				0.25		TON	DUST AND ICE CONTROL WITH CALCIUM CHLORIDE	609.15				
							4				4		EACH	ENERGY ABSORPTION ATTENUATOR	621.56				
							510				510		LF	REMOVE AND RESET GUARDRAIL	621.75				
							370				370		LF	TEMPORARY TRAFFIC BARRIER	621.90				
							80				80		HR	UNIFORMED TRAFFIC OFFICERS	630.10				
							80				80		HR	FLAGGERS	630.15				
										1	1		LS	FIELD OFFICE, ENGINEERS	631.10				
										1	1		LS	TESTING EQUIPMENT, CONCRETE NOT USED	631.16				
										3000	3000		DL	FIELD OFFICE TELEPHONE (N.A.B.I.) NOT USED	631.26				
							1				1		LS	MOBILIZATION/DEMOBILIZATION	635.11				
							1				1		LS	TRAFFIC CONTROL	641.10				
							4				4		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15				
							4150				4150		LF	DURABLE 4 INCH WHITE LINE, THERMOPLASTIC	646.402				
							8400				8400		LF	DURABLE 4 INCH YELLOWLINE, THERMOPLASTIC NOT USED TY I TAPE INCLUDED	646.412				
							300				300		LF	DURABLE 6 INCH WHITE LINE, THERMOPLASTIC BY C.O. #2. SEE SHEET	646.422				
							760				760		LF	DURABLE 8 INCH YELLOWLINE, THERMOPLASTIC #16	646.452				
							30				30		LF	DURABLE 24 INCH STOP BAR, THERMOPLASTIC	646.482				
							10				10		EACH	DURABLE LETTER OR SYMBOL, THERMOPLASTIC	646.492				
							3				3		EACH	DURABLE RAILROAD CROSSING SYMBOL, THERMOPLASTIC	646.512				
							620				620		EACH	LINE STRIPING TARGETS	646.76				
							3720				3720		SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85				
								270			270		SY	GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED	649.515				
								7			7		LB	SEED	651.15				
								41			41		LB	FERTILIZER	651.18				
								1			1		TON	AGRICULTURAL LIMESTONE	651.20				
								1			1		TON	HAY MULCH	651.25				
								55			55		CY	TOPSOIL	651.35				
								390			390		SY	TEMPORARY EROSION MATTING	653.20				
								300			300		LF	PROJECT DEMARCATION FENCE	653.55				

PROJECT NAME: **NEW HAVEN**
PROJECT NUMBER: **RAIL 5307(16)**
FILE NAME: z09g070quantity.dgn PLOT DATE: 08/03/2010
PROJECT LEADER: J.B.McCARTHY DRAWN BY: M.FESSEL
DESIGNED BY: M.GAGULIC CHECKED BY: N.LUGO
QUANTITY SHEET #1 SHEET 3 OF 18

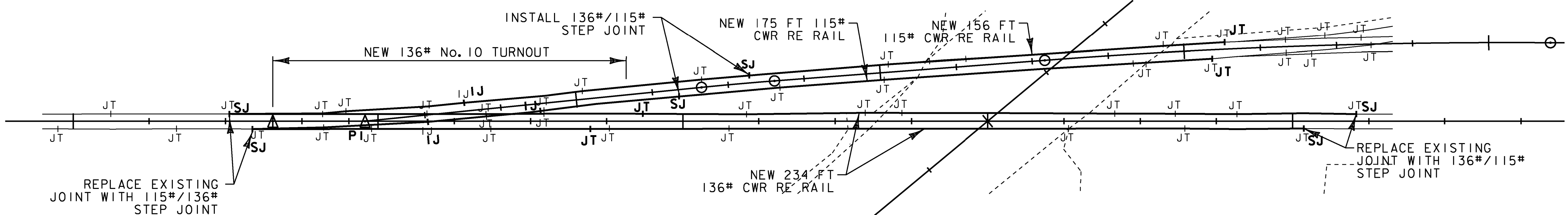


TYPICAL PLAN VIEW
N.T.S.

NOTE FOR AS-BUILTS:
EPOXY COATED REINFORCING STEEL WAS ADDED TO HIS SLAB.
#5 BARS WERE ADDED. 12" ON CENTER EAST TO WEST, 18" ON CENTER NORTH TO SOUTH. ONE MAT, 2" CLEARANCE ON THE BOTTOM OF THE SLAB.



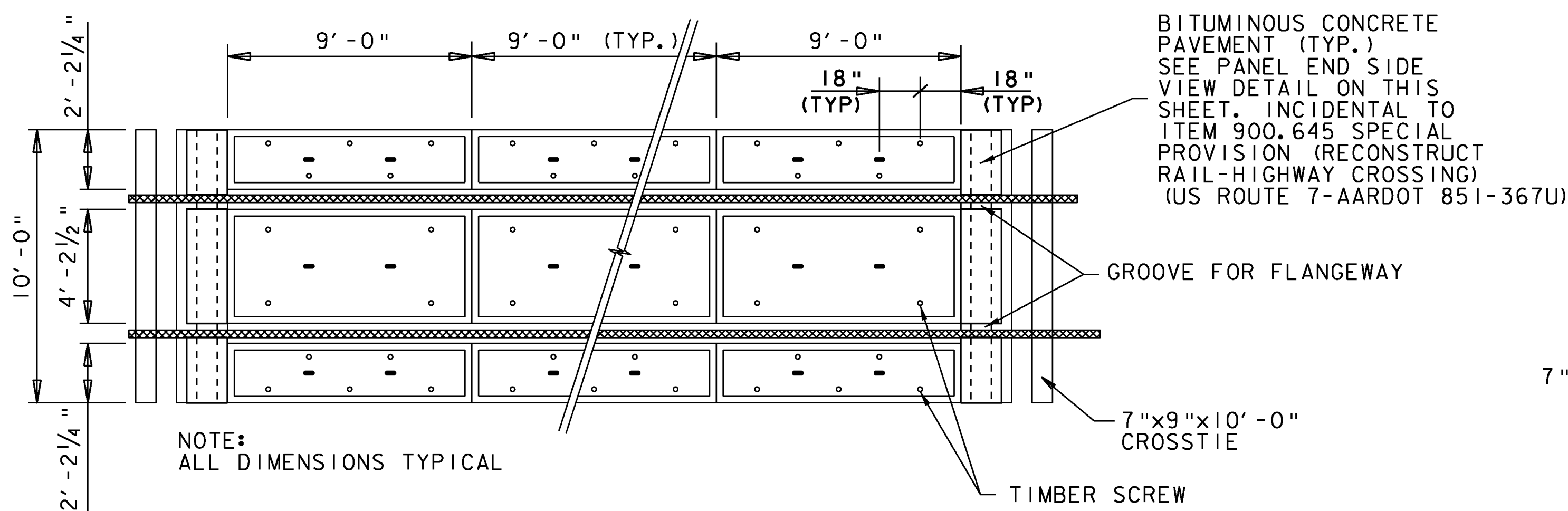
TYPICAL TRANSVERSE SECTION
N.T.S.



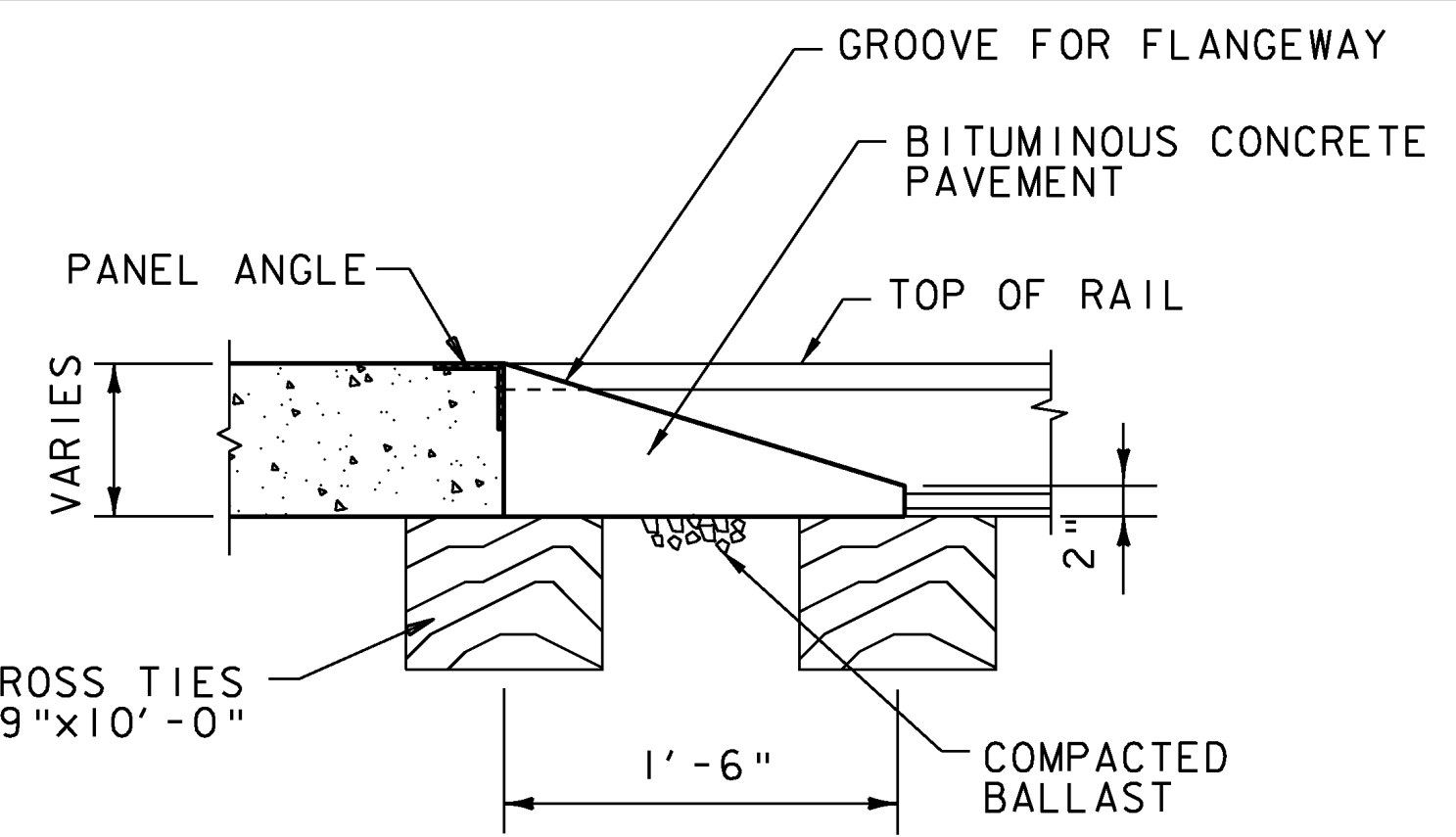
EXISTING AND PROPOSED RAIL JOINT LAYOUT
N.T.S.

LEGEND	
I/J	INSULATED JOINT
J/T	STANDARD JOINT
S/J	STEP JOINT

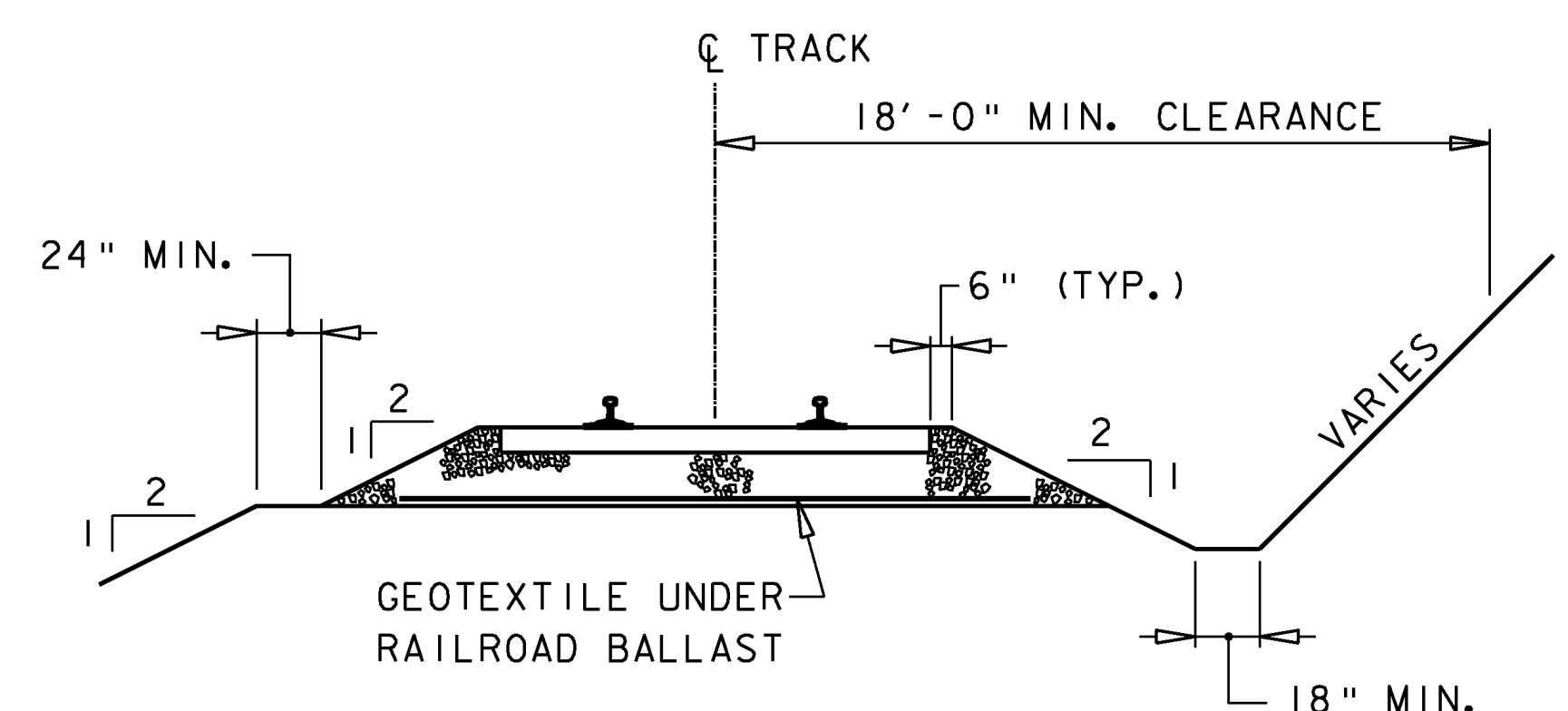
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PROJECT NUMBER:	RAIL 5307(16)
FILE NAME:	z09g070/RAIL/detail3.dgn
PROJECT LEADER:	J.B.McCARTHY
DESIGNED BY:	LB
TYPICAL SECTIONS AND DETAILS #1	
PLOT DATE:	03-AUG-2010
DRAWN BY:	LB
CHECKED BY:	J.READ
SHEET	5 OF 18



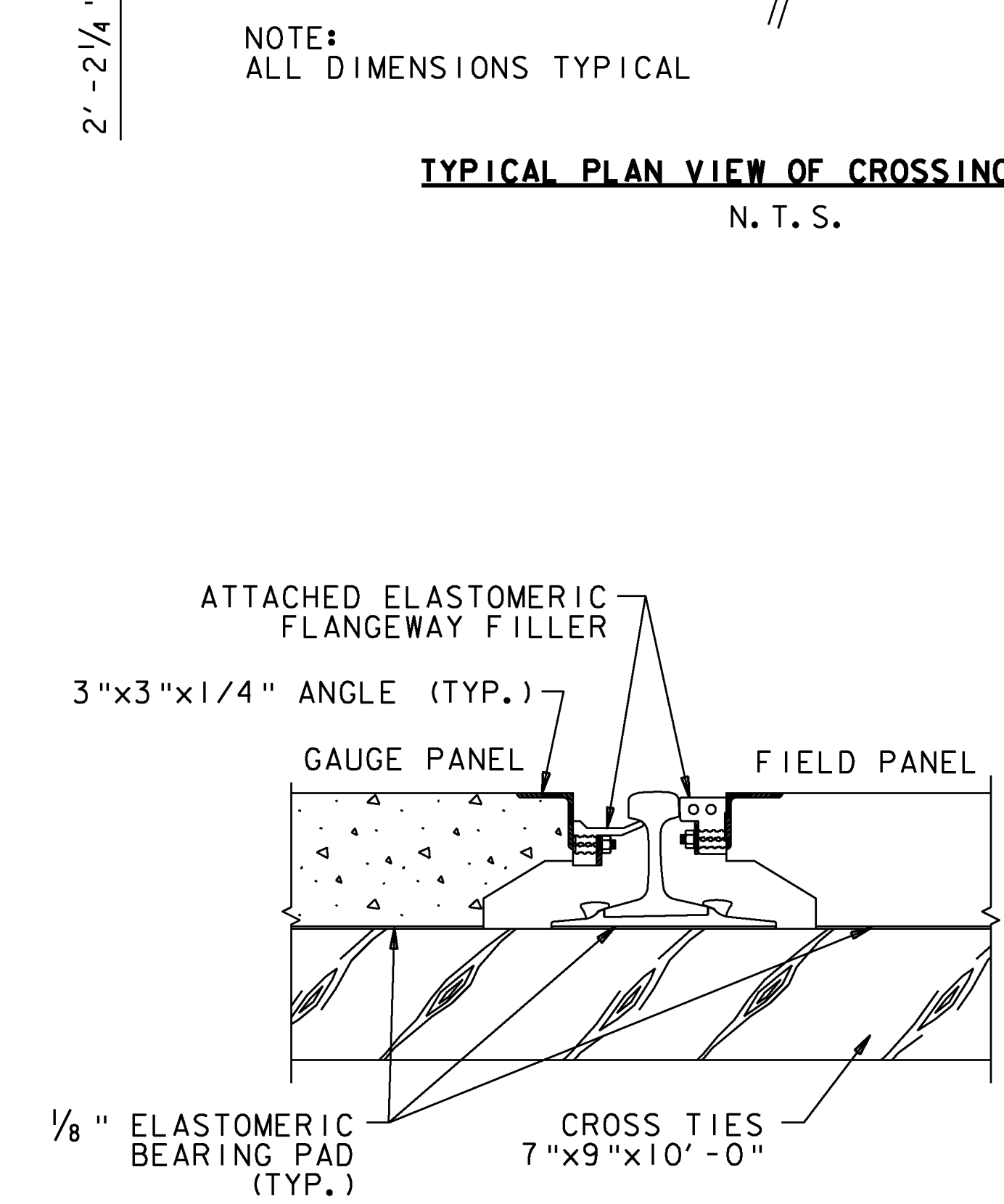
TYPICAL PLAN VIEW OF CROSSING PANELS
N. T. S.



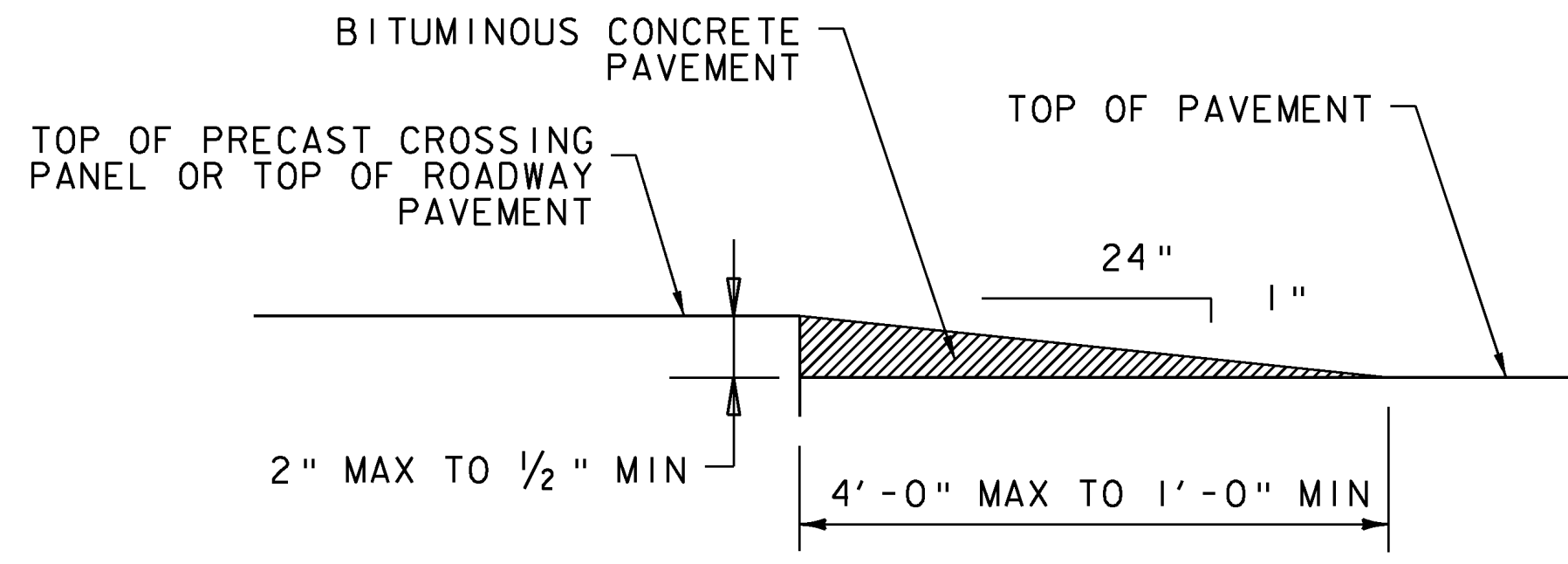
PANEL END SIDE VIEW
N. T. S.



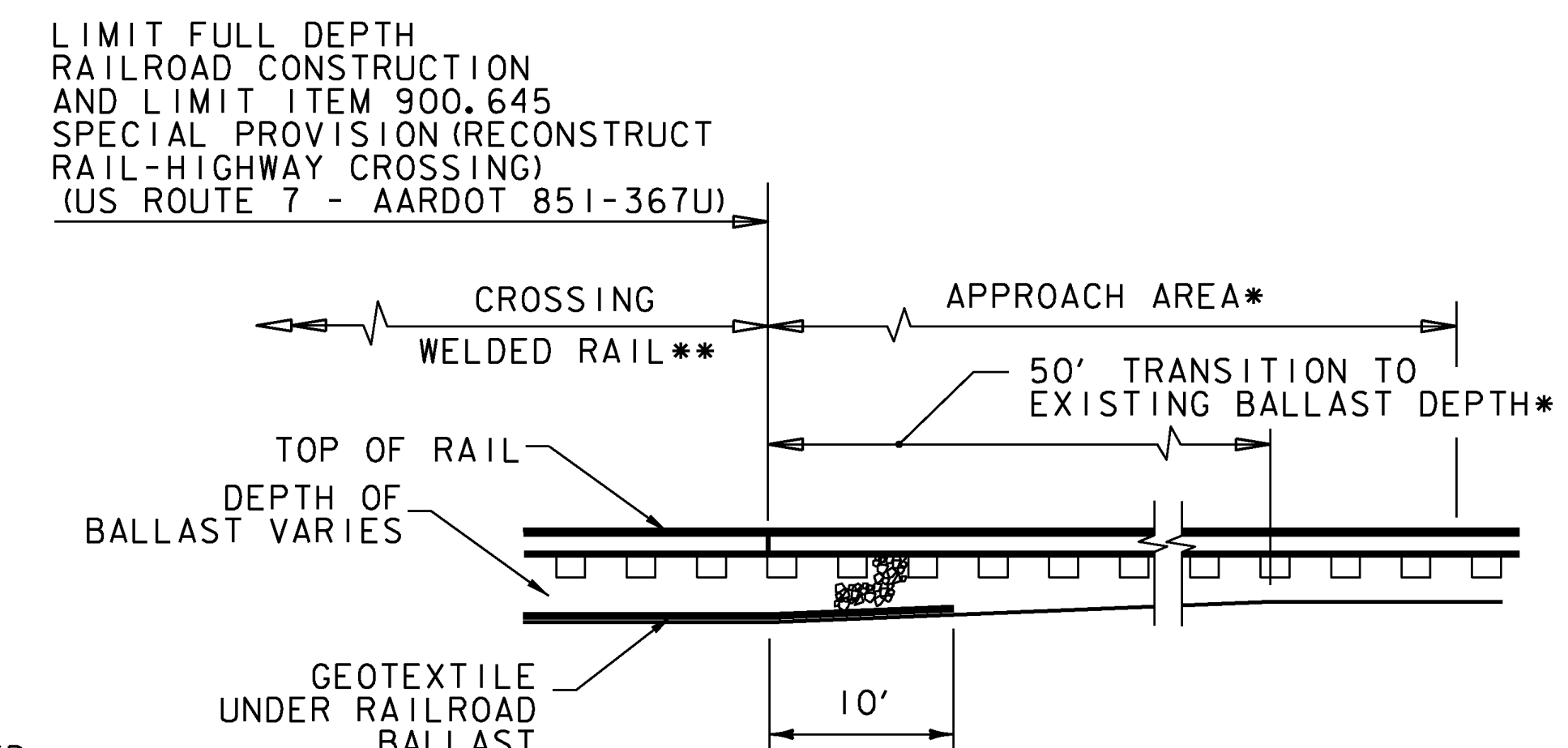
TYPICAL APPROACH SECTION
N. T. S.



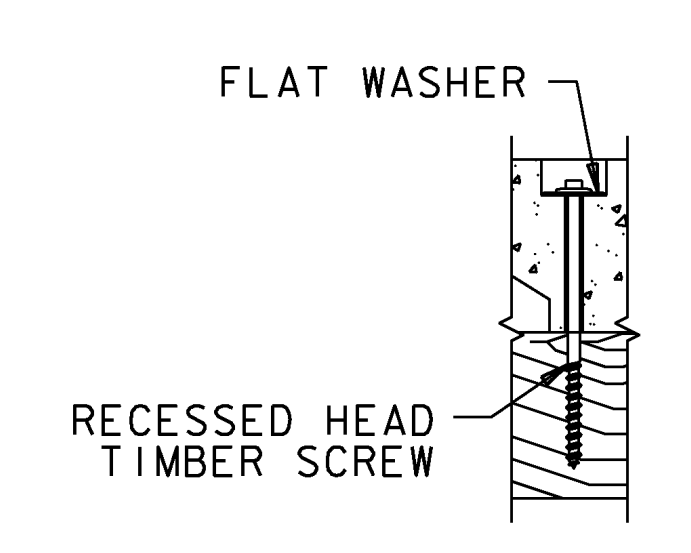
RAIL SEALS-TYPICAL SECTION
N. T. S.



TEMPORARY PAVEMENT TRANSITION
N. T. S.

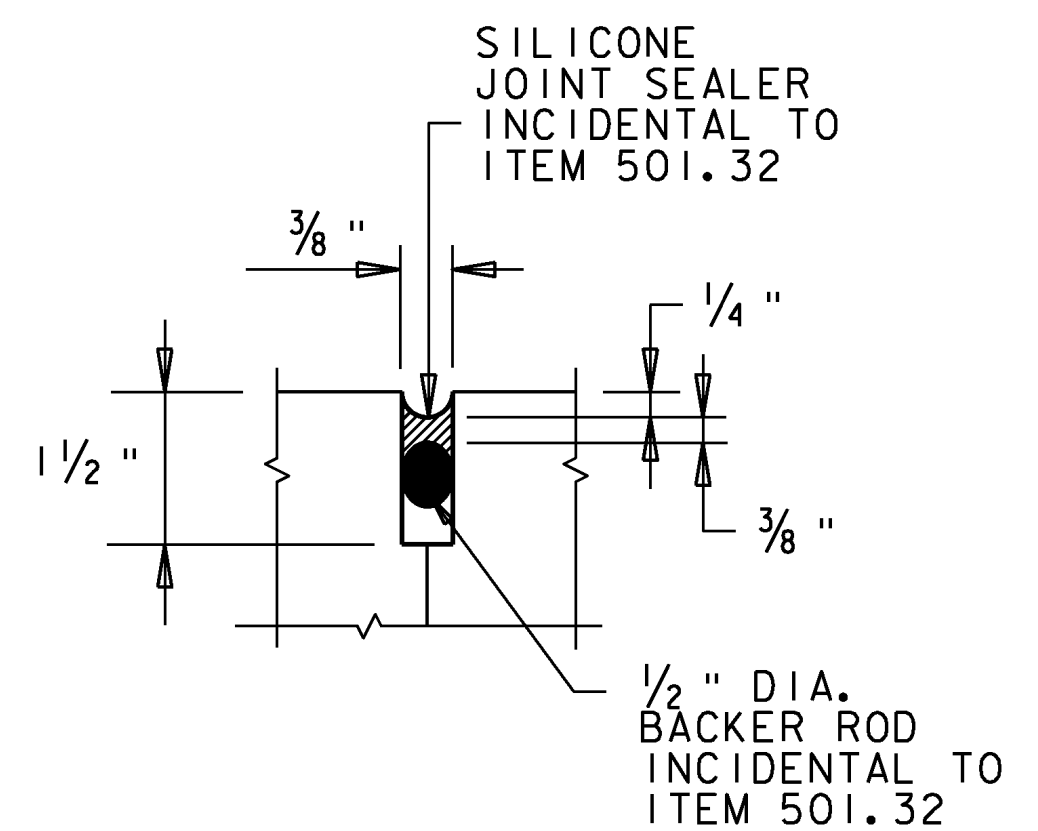


TYPICAL BALLAST TRANSITION
N. T. S.

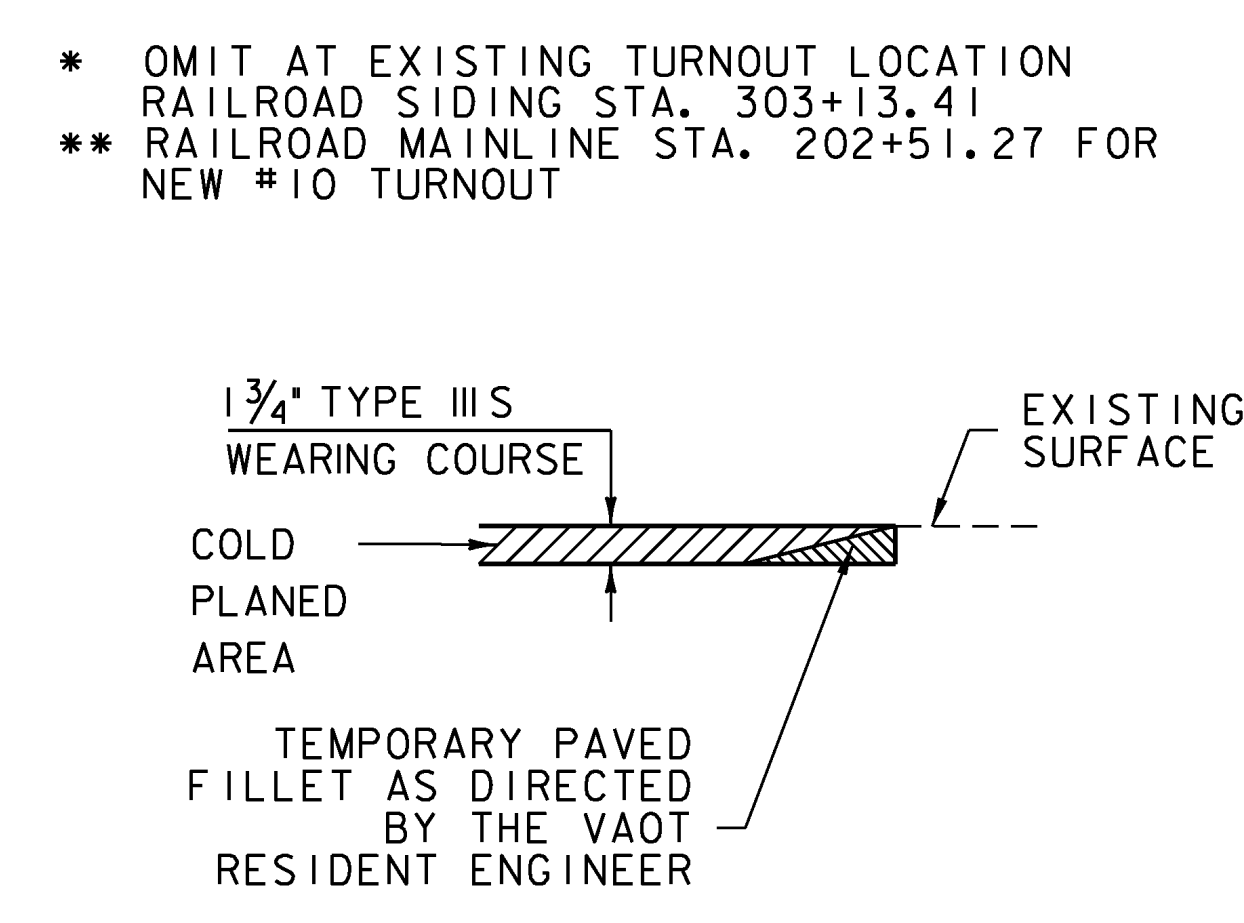


TIMBER SCREW DETAIL
N. T. S.

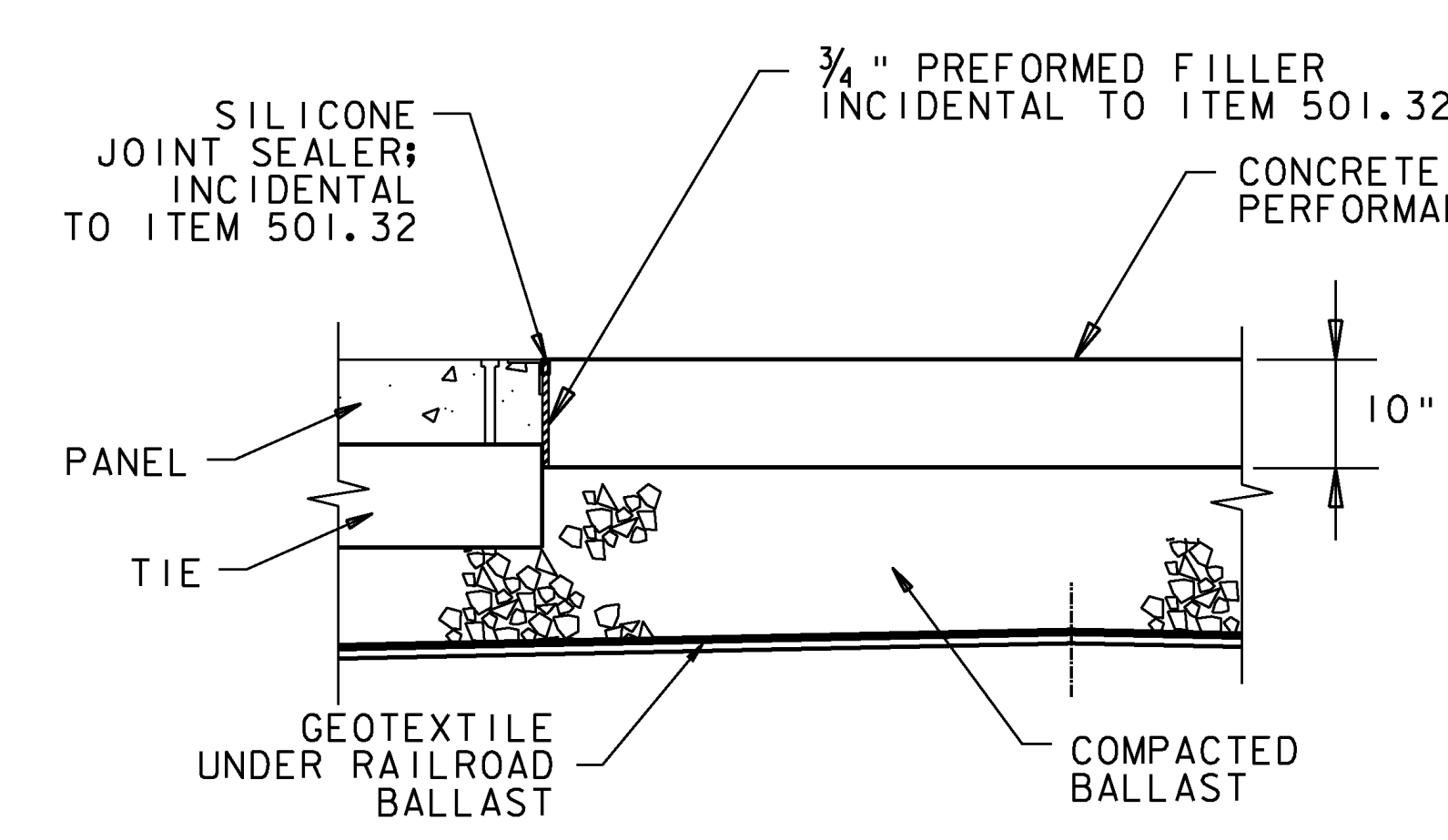
NOTE: THE TEMPORARY PAVEMENT TRANSITION IS TO BE INSTALLED AT STEPS BETWEEN ROADWAY SURFACES. THE TEMPORARY PAVEMENT TRANSITION INSTALLATION AND REMOVAL SHALL BE INCIDENTAL TO ITEM 210.10, COLD PLANING, BITUMINOUS PAVEMENT



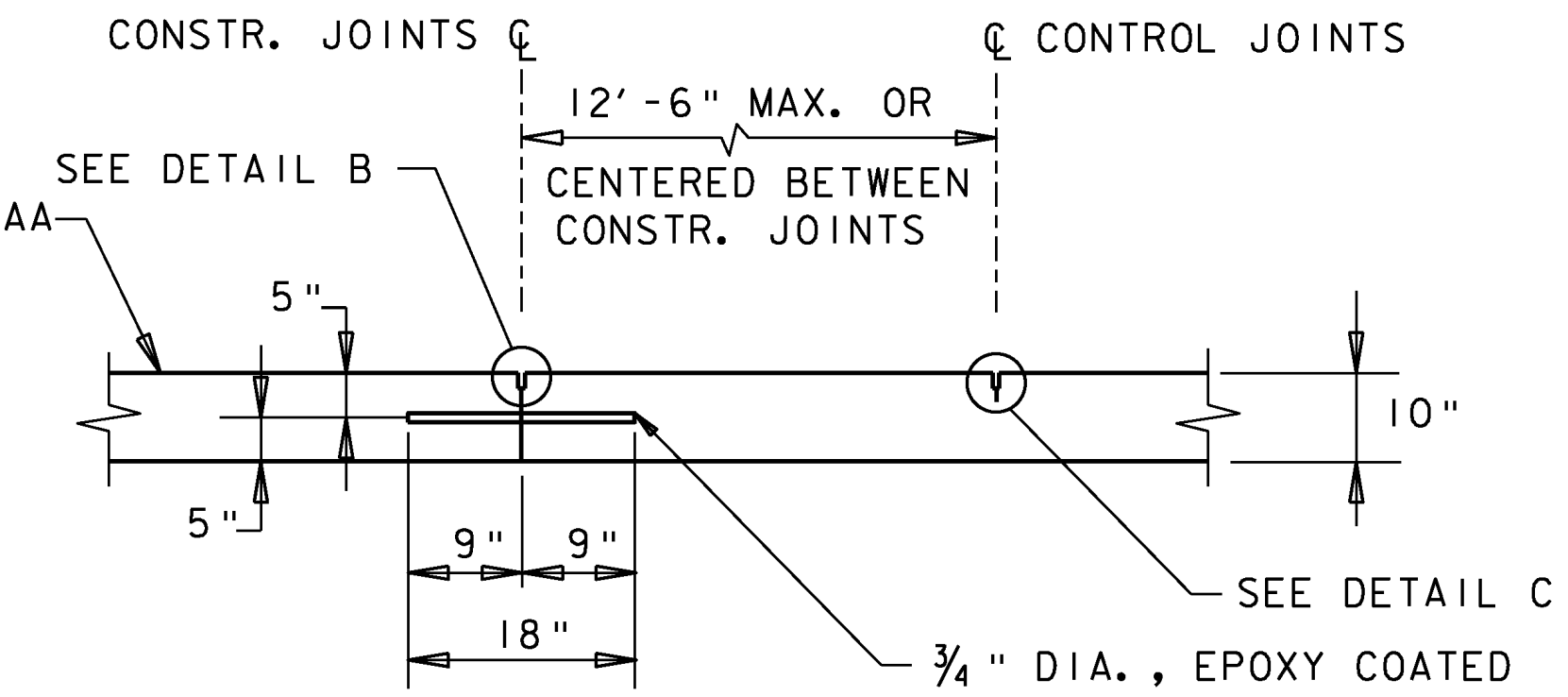
DETAIL B
N. T. S.



DETAIL AT VERTICAL COLD PLANE JOINTS

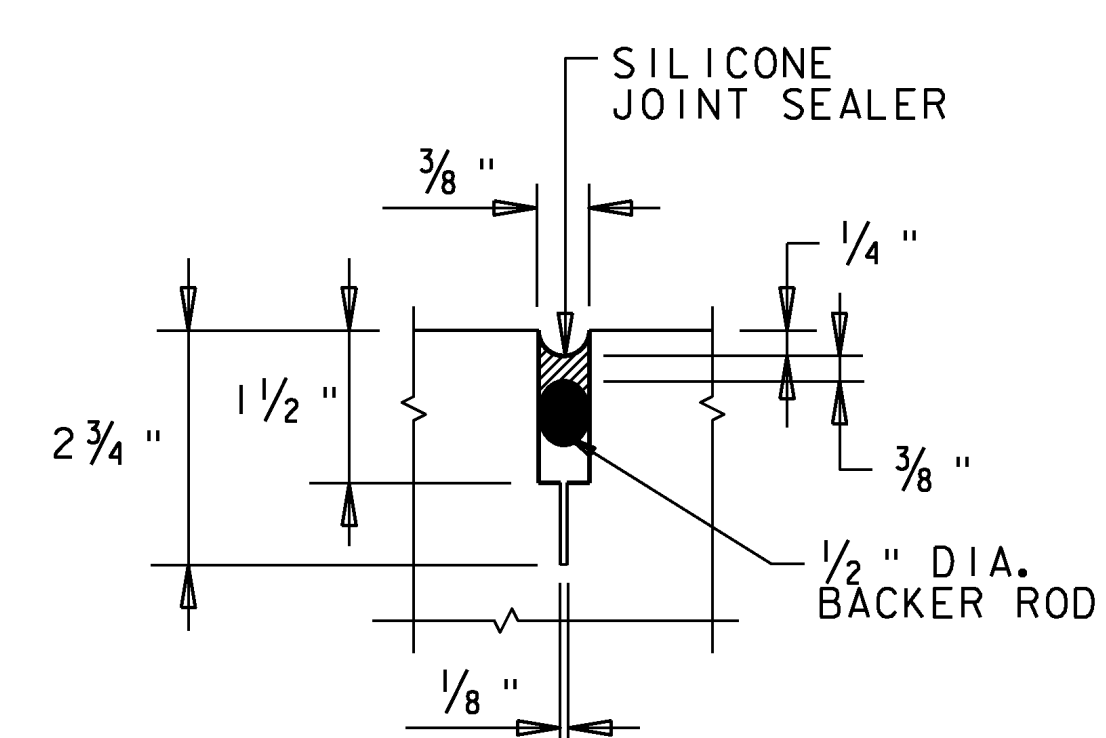


DETAIL A
N. T. S.



CONSTRUCTION JOINT
N. T. S.

NOTE: ALIGNMENT OF DOWELS TO BE ADJUSTED AT EDGES OF CROSSING MATERIAL



DETAIL C
N. T. S.

NOTE: THIS DETAIL SHALL BE USED AT THE LOCATIONS LISTED BELOW BY THE VAOT RESIDENT ENGINEER. PAYMENT SHALL BE INCIDENTAL TO ITEM 210.10.
STA 103+93.21 (US 7)
STA 105+10 LT - 105+80 LT (VT 17)
STA 106+38.31 (US 7)

PROJECT NAME: NEW HAVEN	PLOT DATE: 03-AUG-2010
PROJECT NUMBER: RAIL 5307(16)	DRAWN BY: LB
FILE NAME: z09g070/RAIL/detail3.dgn	CHECKED BY: J.READ
PROJECT LEADER: J.B.McCARTHY	SHEET 6 OF 18
DESIGNED BY: LB	TYPICAL SECTIONS AND DETAILS #2

GPS CONTROL POINTS

HVCTRL #1

A97011

NORTH = 589435.866
 EAST = 1462663.751
 ELEV. = 370.24

DESCRIBED BY VERMONT GEODETIC SURVEY 1997 (CHR) GENERAL LOCATION, NEW HAVEN, VT. OWNERSHIP, NELSONS SERVICE CENTER, INC., RR 1 BOX 118, NEW HAVEN, VT.05472. CONTACT MARK A.NELSON. PHONE 802-453-5091. TO REACH FROM THE INTERSECTION OF U.S.ROUTE 7 AND VT ROUTE 17 EAST IN NEW HAVEN JUNCTION GO SOUTH ALONG U.S.ROUTE 7 FOR 0.5 MI (0.8 KM) TO THE INTERSECTION OF A GRAVEL DRIVE RIGHT LEADING TO NELSONS SERVICE CENTER. TURN RIGHT AND GO WEST ALONG THE GRAVEL DRIVE FOR ABOUT 50 M (164.0 FT) TO THE SERVICE CENTER AND SITE OF MARK ON A GRASSY KNOLL SOUTH OF THE BUILDING. THE MARK IS SET FLUSH WITH GROUND SURFACE IN THE TOP OF A DEEPLY IMBEDDED 3.3 M (10.8 FT) X 1.0 M (3.3 FT) EXPOSED IRREGULAR MASS OF CONCRETE. IT IS 51.7 M (169.6 FT) WEST OF AND ABOUT 3 M (9.8 FT) HIGHER THAN THE WEST EDGE OF PAVEMENT OF U.S.ROUTE 7, 23.7 M (77.8 FT) SOUTHWEST OF THE SOUTHWEST CORNER OF THE SERVICE STATION, 27.8 M (91.2 FT) NORTHWEST OF THE NORTHWEST CORNER OF A MOBILE HOME, 1.0 M (3.3 FT) WEST OF A NORTH-SOUTH WOVEN WIRE FENCE, AND 16.9 M (55.4 FT) SOUTHWEST OF POLE NO.4 AND A FIBERGLASS WITNESS POST. NOTE, MARK IS INTERVISIBLE WITH MARK A97010.

HVCTRL #2

A97010

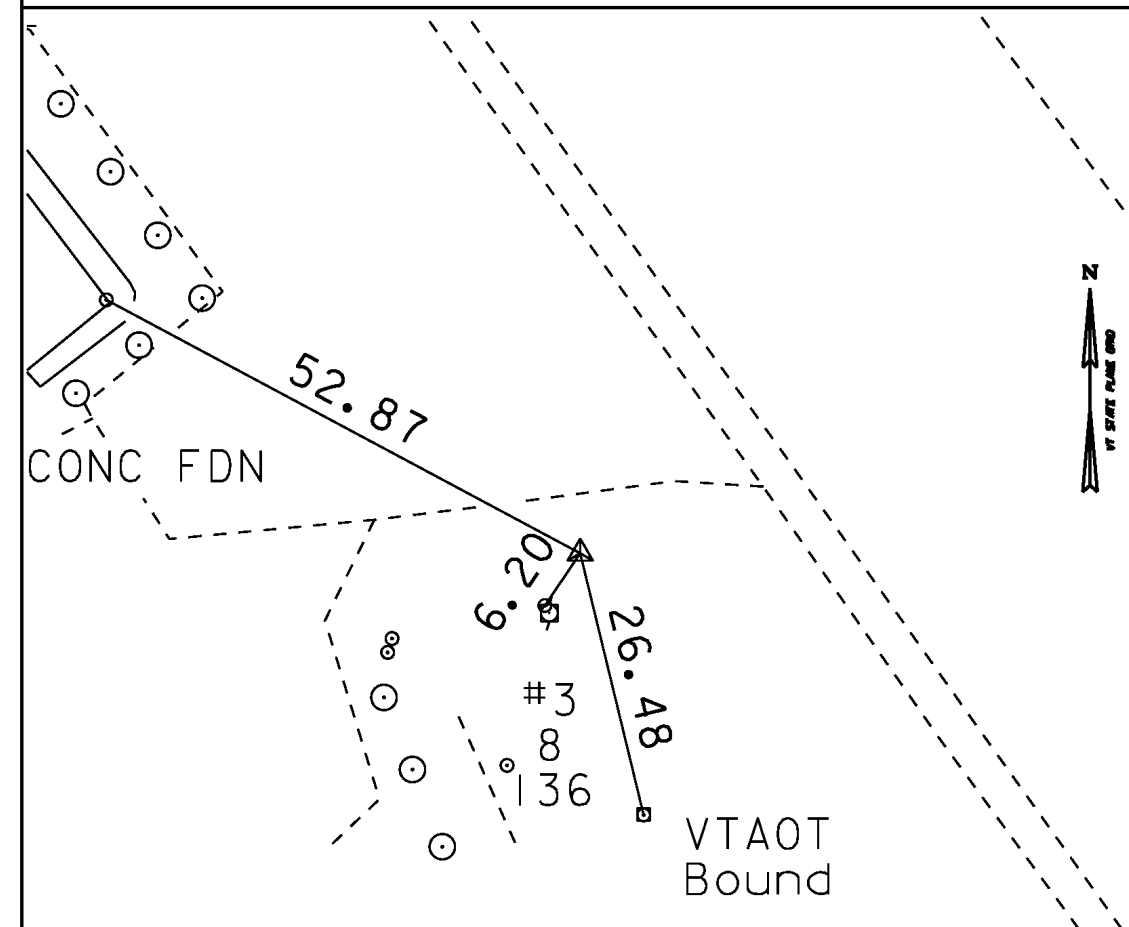
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 EAST = 1461715.930
 ELEV. = 284.37

DESCRIBED BY VERMONT GEODETIC SURVEY 1997 (CHR) GENERAL LOCATION, NEW HAVEN, VT. OWNERSHIP, CECIL AND RAMONA MORSE, P.O.BOX 93, NEW HAVEN, VT.05472. PHONE 802-388-2641. TO REACH FROM THE INTERSECTION OF VT ROUTE 17 EAST AND U.S.ROUTE 7 IN NEW HAVEN JUNCTION GO EAST ALONG VT ROUTE 17 FOR 0.05 MI (0.08 KM) TO THE NEW HAVEN POST OFFICE AND THE MARK ON THE LEFT IN A GRASS ISLAND BETWEEN THE PAVED PARKING LOT FOR THE POST OFFICE AND VT ROUTE 17. THE MARK IS SET FLUSH WITH GROUND SURFACE IN THE TOP OF A 30 CM DIAMETER CONCRETE MONUMENT POURED 1.4 M (4.6 FT) DEEP. IT IS 8.3 M (27.2 FT) NORTH OF AND ABOUT LEVEL WITH THE CENTERLINE OF VT ROUTE 17, 1.6 M (5.2 FT) SOUTH OF THE SOUTH EDGE OF THE PAVED PARKING LOT, 18.0 M (59.1 FT) SOUTHWEST OF THE SOUTHWEST CORNER OF THE POST OFFICE, 18.5 M (60.7 FT) SOUTHWEST OF THE SOUTHWEST CORNER OF THE POST OFFICE, AND 27.3 M (89.6 FT) NORTHEAST OF POLE NO.136B/136/128/134. NOTE, MARK IS INTERVISIBLE WITH MARK A97011.

TRAVERSE TIES

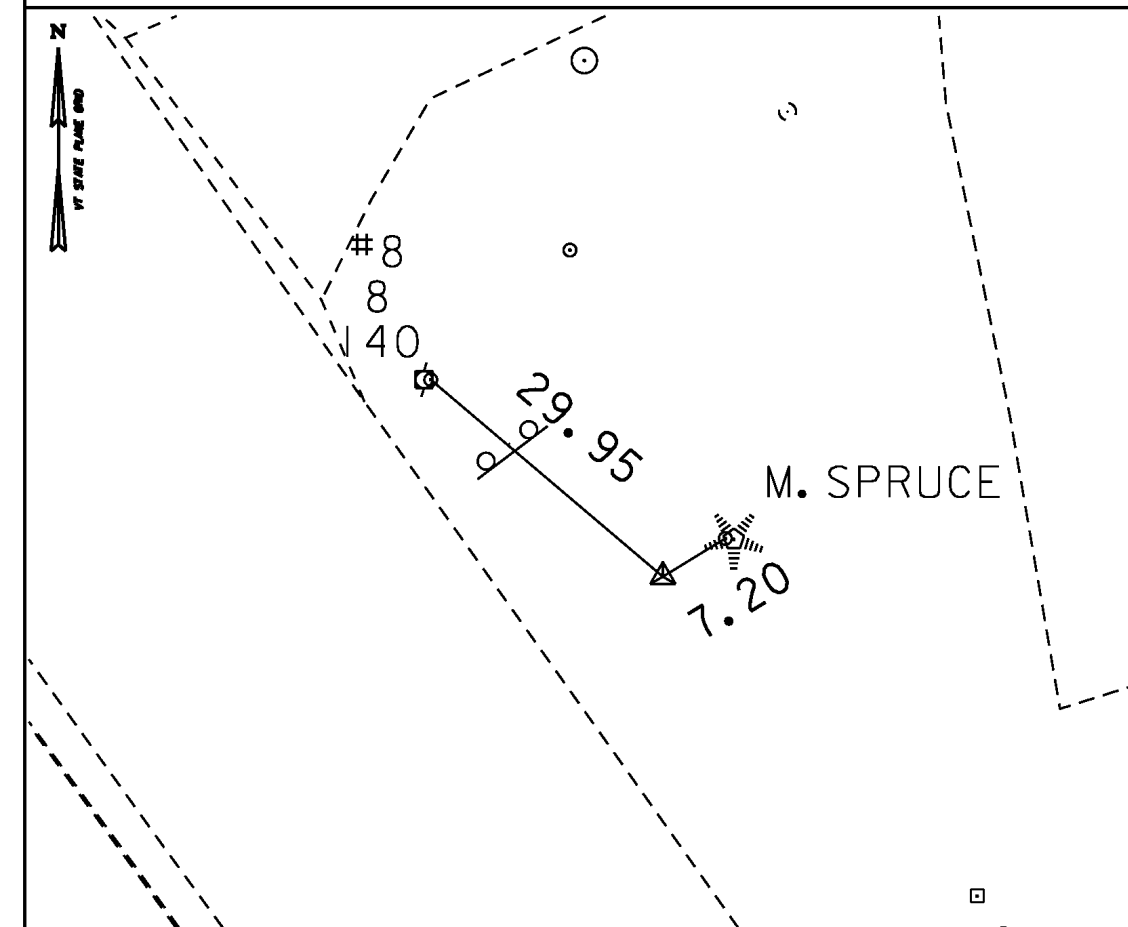
HVCTRL #3

NORTH = 591853.68
 EAST = 1461356.41
 ELEV. = 280.99



HVCTRL #4

NORTH = 592656.79
 EAST = 1460864.41
 ELEV. = 282.64



* Main Traverse Completed 09/02/08 by L.Orvis P.C. & R.Bokus

ALIGNMENT TIES

NORTH =
 EAST =
 ELEV. =

NORTH =
 EAST =
 ELEV. =

NORTH =
 EAST =
 ELEV. =

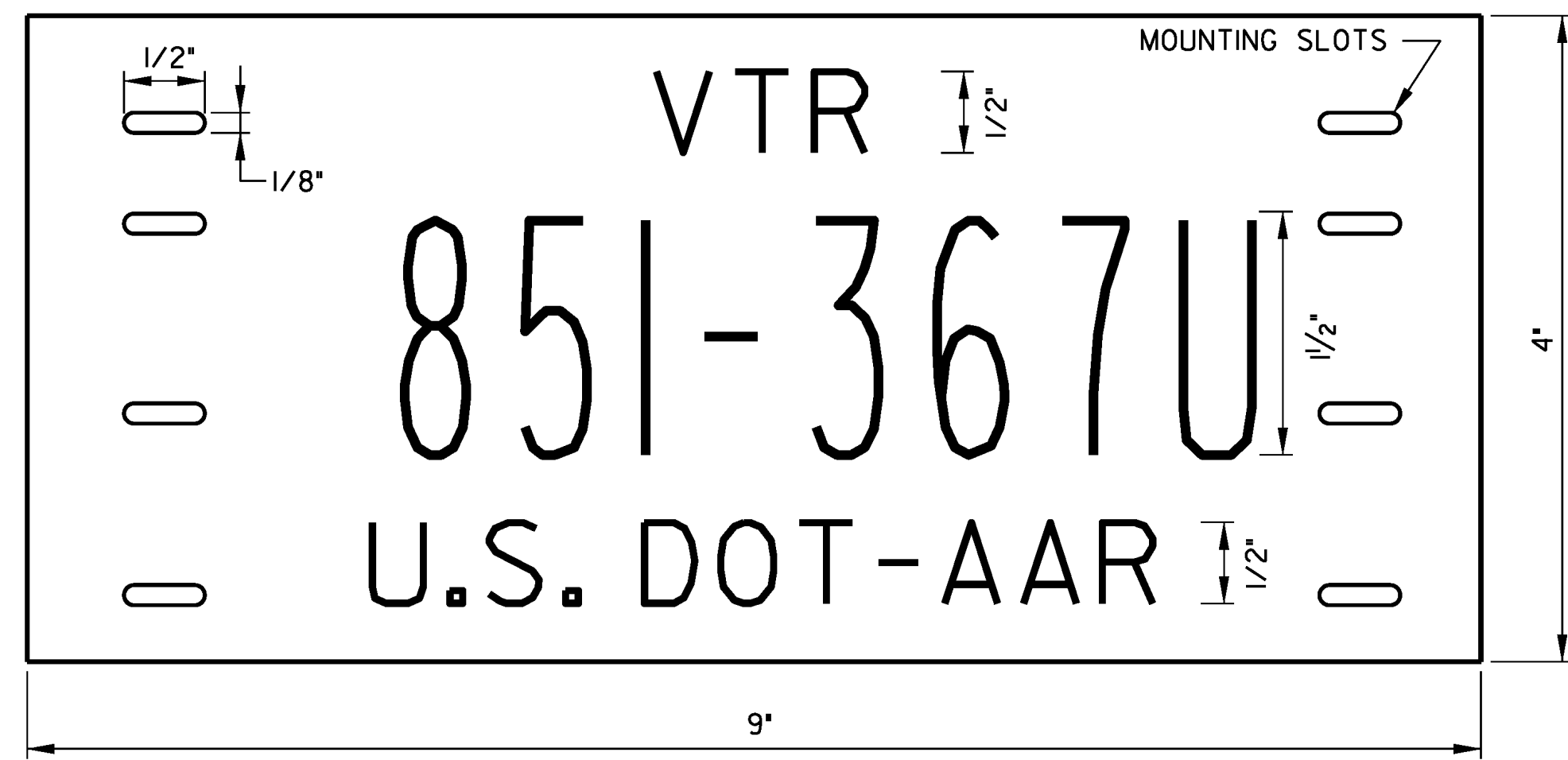
NORTH =
 EAST =
 ELEV. =

NORTH =
 EAST =
 ELEV. =

DATUM
 VERTICAL NAVD 88
 HORIZONTAL NAD 83(07)
 ADJUSTMENT Compass

PROJECT NAME: NEW HAVEN
 PROJECT NUMBER: RAIL 5307(16)

FILE NAME: z09g070/RAIL/1.dgn PLOT DATE: 13-JUL-2010
 PROJECT LEADER: J.B.McCARTHY DRAWN BY: R.BULLOCK
 DESIGNED BY: CHECKED BY:
 TIE SHEET SHEET 7 OF 18

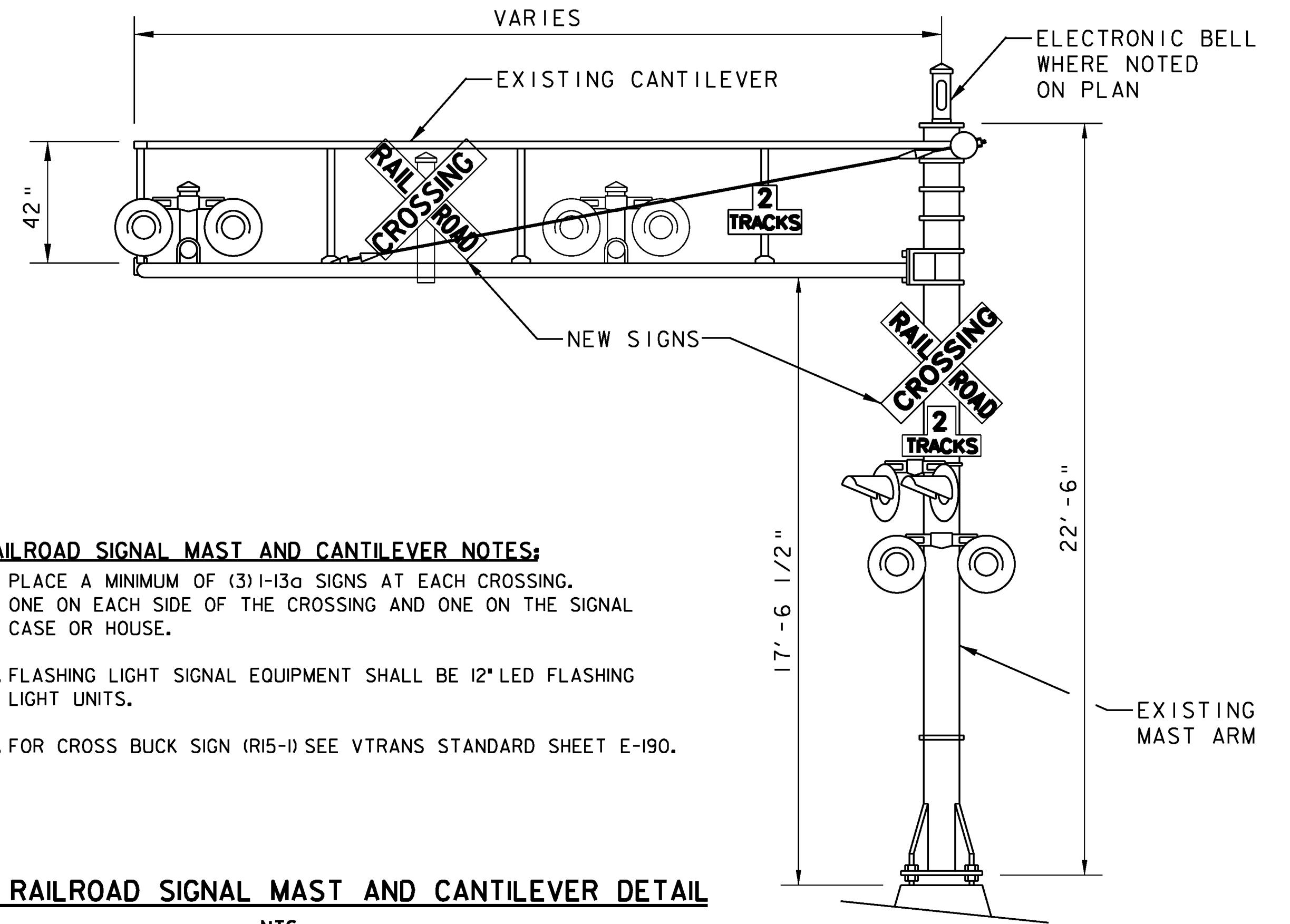
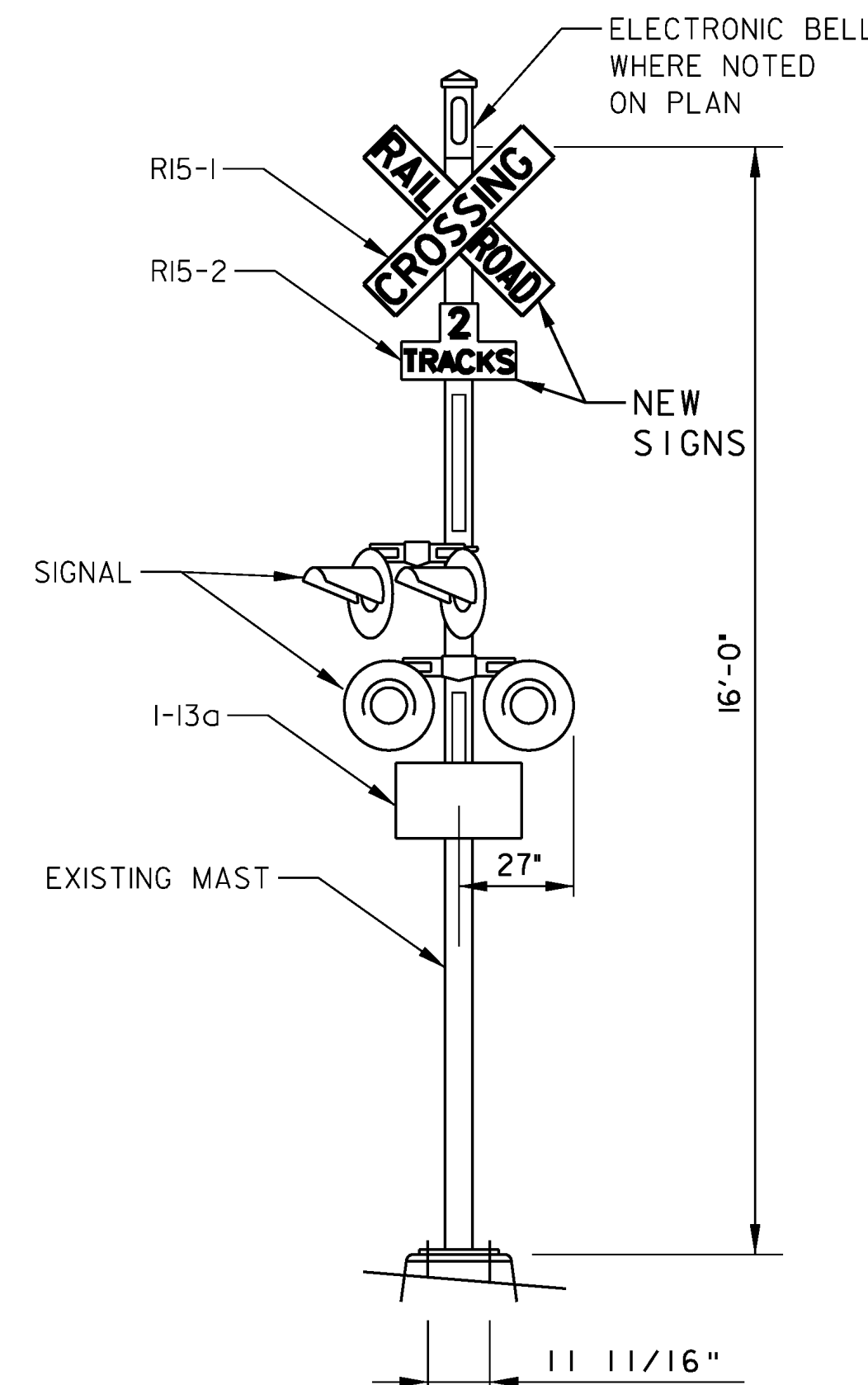


PERMANENT NUMBER SIGN

NTS

PERMANENT NUMBER SIGN NOTES:

1. PERMANENT NUMBER SIGN PLATES SHALL BE MADE UP OF 0.032 GAGE ALUMINUM WITH RAISED NUMBERS AND LETTERS. SEE SPECIFICATIONS. INSTALL ON SIGNAL MAST ONE ON EACH SIDE OF CROSSING.

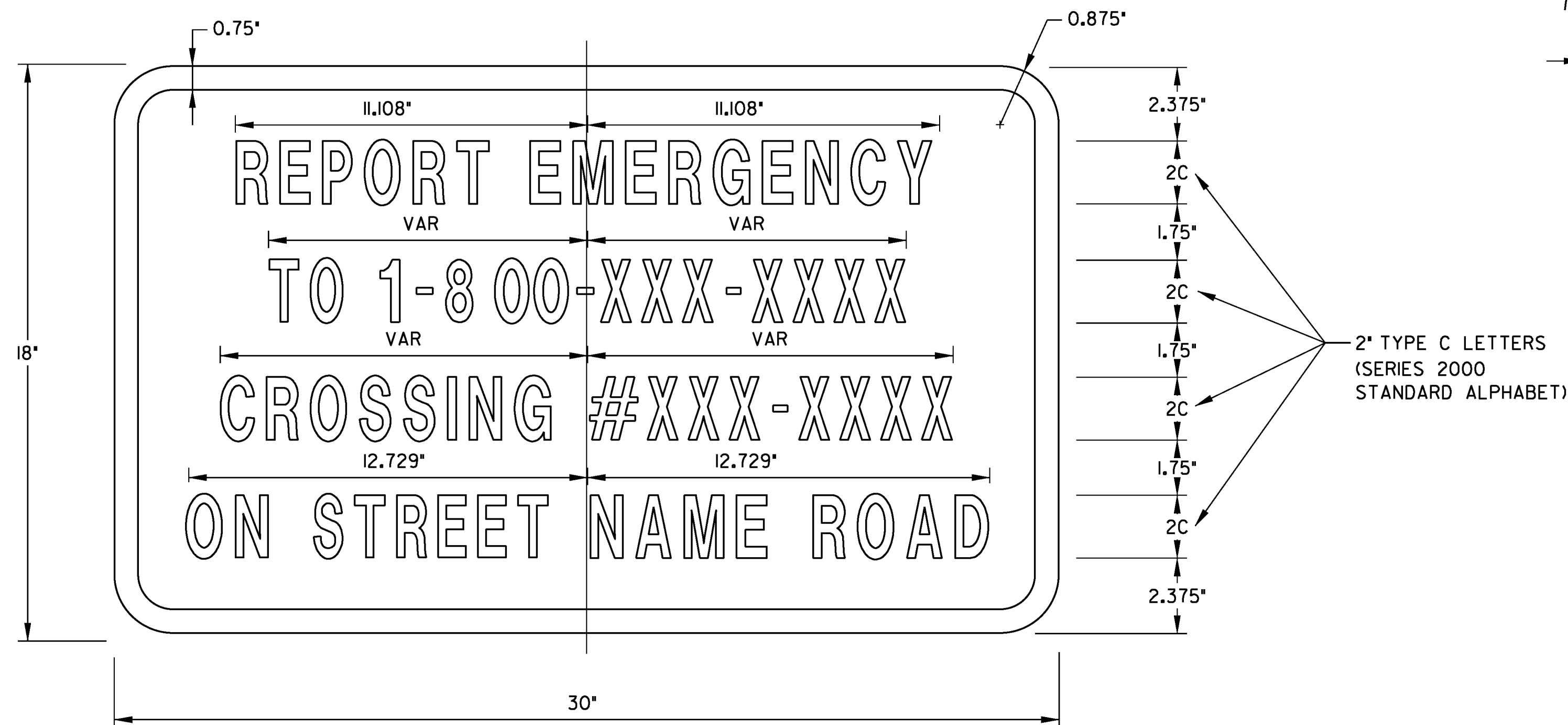


RAILROAD SIGNAL MAST AND CANTILEVER NOTES:

1. PLACE A MINIMUM OF (3) I-13a SIGNS AT EACH CROSSING. ONE ON EACH SIDE OF THE CROSSING AND ONE ON THE SIGNAL CASE OR HOUSE.
2. FLASHING LIGHT SIGNAL EQUIPMENT SHALL BE 12" LED FLASHING LIGHT UNITS.
3. FOR CROSS BUCK SIGN (R15-1) SEE VTRANS STANDARD SHEET E-190.

TYPICAL RAILROAD SIGNAL MAST AND CANTILEVER DETAIL

NTS



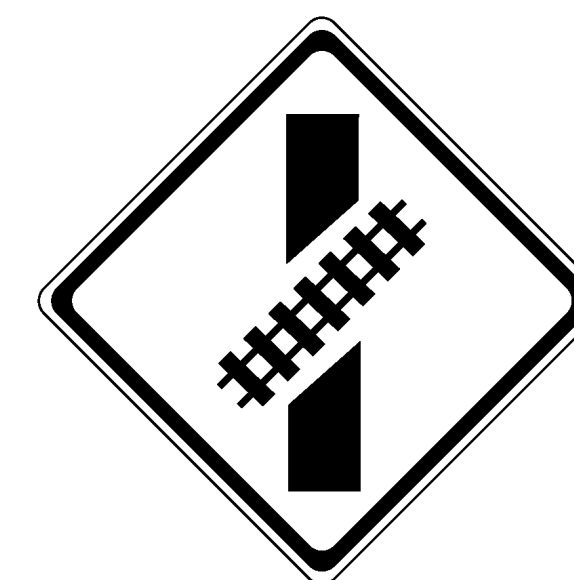
I-13a SIGN

COLORS:

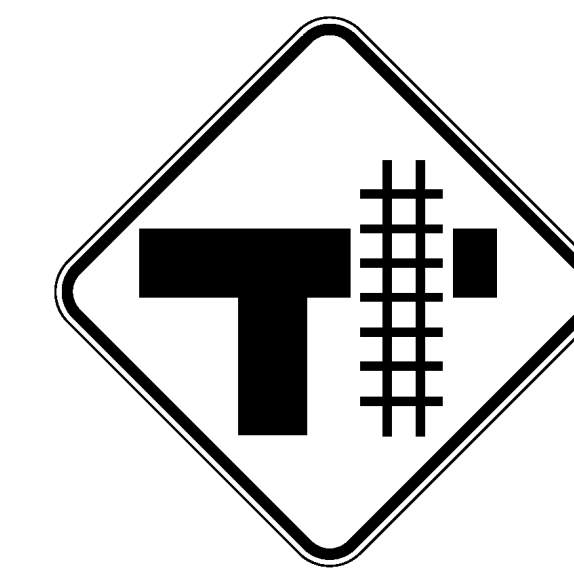
LEGEND	WHITE (RETROREFLECTIVE)	BLUE (RETROREFLECTIVE)
BACKGROUND		

GENERAL MOTORIST SERVICE SIGN NOTES:

1. THE COLORS, MATERIALS, LETTERING, DESIGN, AND SPECIFICATION SHALL CONFORM TO THE NOTES SHOWN ON VERMONT STANDARD E-132.
2. THE EMERGENCY CONTACT TELEPHONE NUMBER IS 1-888-265-2735, THE CROSSING NUMBER IS 851-367U ON U.S. ROUTE 7.
3. PLACE A MINIMUM OF (3) I-13a SIGNS AT EACH CROSSING. ONE ON EACH SIDE OF THE CROSSING AND ONE ON THE SIGNAL CASE OR HOUSE.



W10-12 SIGN



W10-4R SIGN

SIGN NOTES:

THE COLORS AND MATERIALS SHALL CONFORM TO THE NOTES SHOWN ON VERMONT STANDARD INCLUDING BUT NOT LIMITED TO E-190.

TEXT DESIGN:

LETTERS, DIGITS, SYMBOLS, SPACINGS AND TEXT DIMENSIONS SHALL CONFORM TO THE LATEST VERSION OF FHWA'S "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS". DETAILS SHALL CONFORM WITH THOSE DESCRIBED IN THE PUBLICATION "STANDARD HIGHWAY SIGNS" AS SPECIFIED IN THE MUTCD.

DESIGN:

THE DESIGN OF THESE SIGNS SHALL CONFORM WITH THE DETAILS SET FORTH IN THE MANUAL "STANDARD HIGHWAY SIGNS" AS SPECIFIED IN "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

SPECIFICATIONS:

THE SIGNS SHALL MEET THE VERMONT STANDARD STATE SPECIFICATIONS FOR "TRAFFIC SIGNS" AS DESCRIBED IN THE VAOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND SHALL BE ASTM TYPE III SHEETING, OR BETTER.

NOTE:

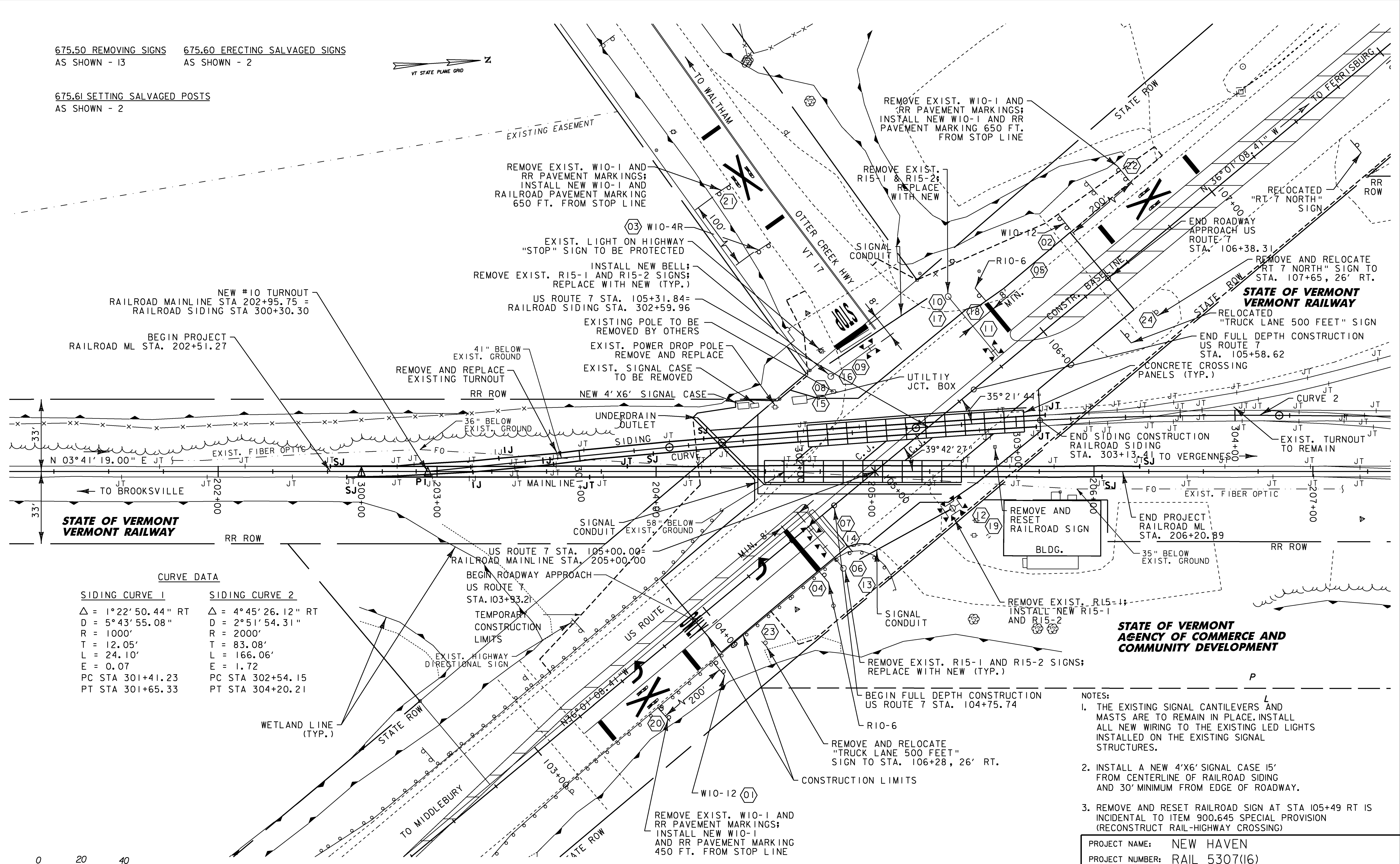
WHERE CONFLICTS EXIST, LATEST MUTCD SHALL GOVERN

TYPICAL RR SIGNAL AND SIGN DETAILS

PROJECT NAME: NEW HAVEN	PLOT DATE: 13-JUL-2010
PROJECT NUMBER: RAIL 5307(16)	DRAWN BY: LB
FILE NAME: z09g070/RAIL/detail2.dgn	CHECKED BY: J.READ
PROJECT LEADER: J.B.McCARTHY	SHEET 8 OF 18
DESIGNED BY: LB	

675.50 REMOVING SIGNS AS SHOWN - 13
 675.60 ERECTING SALVAGED SIGNS AS SHOWN - 2

675.61 SETTING SALVAGED POSTS AS SHOWN - 2



CURVE DATA

SIDING CURVE 1	SIDING CURVE 2
$\Delta = 1^{\circ}22'50.44''$ RT	$\Delta = 4^{\circ}45'26.12''$ RT
$D = 5^{\circ}43'55.08''$	$D = 2^{\circ}51'54.31''$
$R = 1000'$	$R = 2000'$
$T = 12.05'$	$T = 83.08'$
$L = 24.10'$	$L = 166.06'$
$E = 0.07$	$E = 1.72$
PC STA 301+41.23	PC STA 302+54.15
PT STA 301+65.33	PT STA 304+20.21

**STATE OF VERMONT
 AGENCY OF COMMERCE AND
 COMMUNITY DEVELOPMENT**

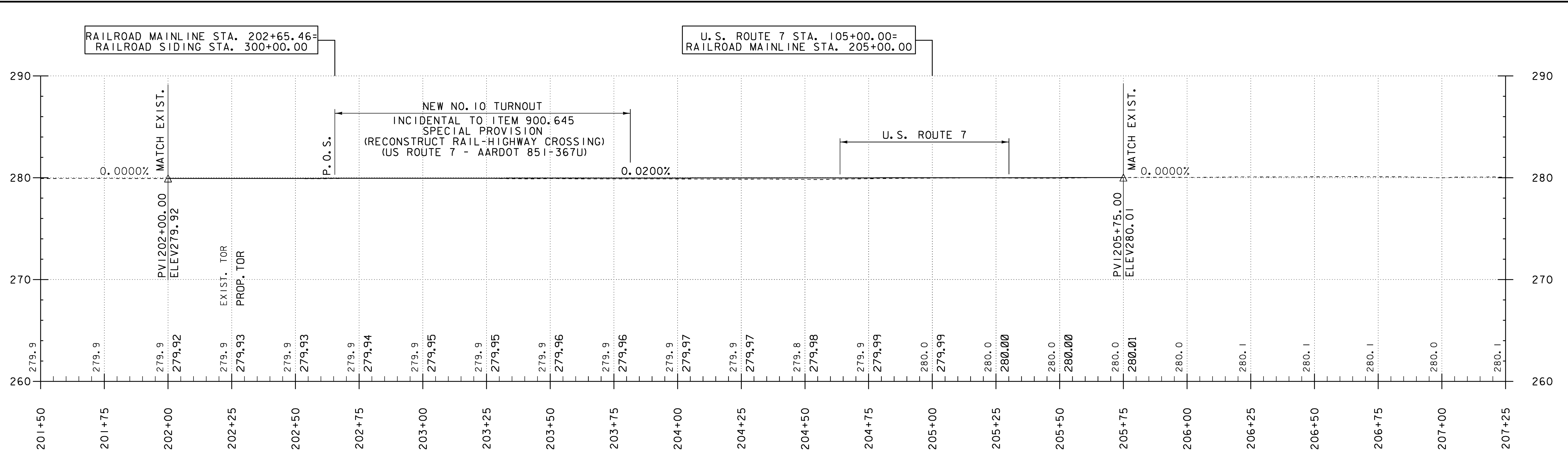
- NOTES:
1. THE EXISTING SIGNAL CANTILEVERS AND MASTS ARE TO REMAIN IN PLACE. INSTALL ALL NEW WIRING TO THE EXISTING LED LIGHTS INSTALLED ON THE EXISTING SIGNAL STRUCTURES.
 2. INSTALL A NEW 4'X6' SIGNAL CASE 15' FROM CENTERLINE OF RAILROAD SIDING AND 30' MINIMUM FROM EDGE OF ROADWAY.
 3. REMOVE AND RESET RAILROAD SIGN AT STA 105+49 RT IS INCIDENTAL TO ITEM 900.645 SPECIAL PROVISION (RECONSTRUCT RAIL-HIGHWAY CROSSING)

PROJECT NAME:	NEW HAVEN
PROJECT NUMBER:	RAIL 5307(16)
FILE NAME:	z09g070/RAIL/bdr_nu.dgn
PROJECT LEADER:	J.B.McCARTHY
DESIGNED BY:	LB
PLAN SHEET	
PLOT DATE:	03-AUG-2010
DRAWN BY:	LB
CHECKED BY:	J.READ
SHEET	9 OF 18



PLAN

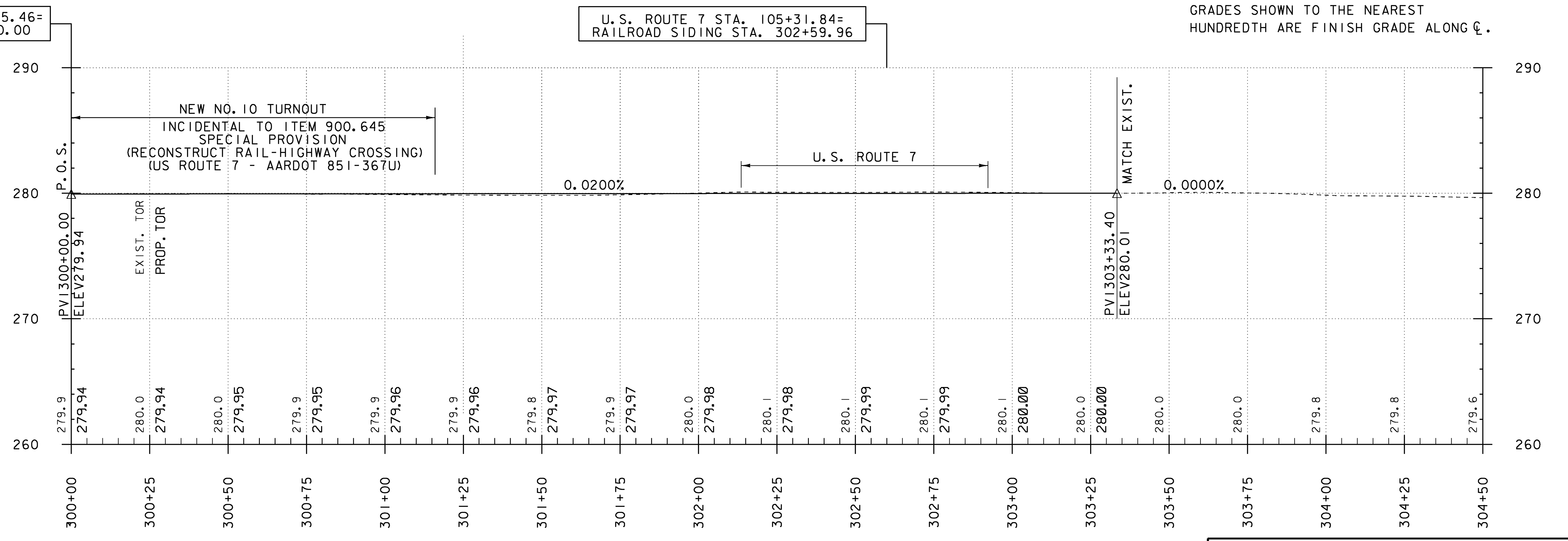
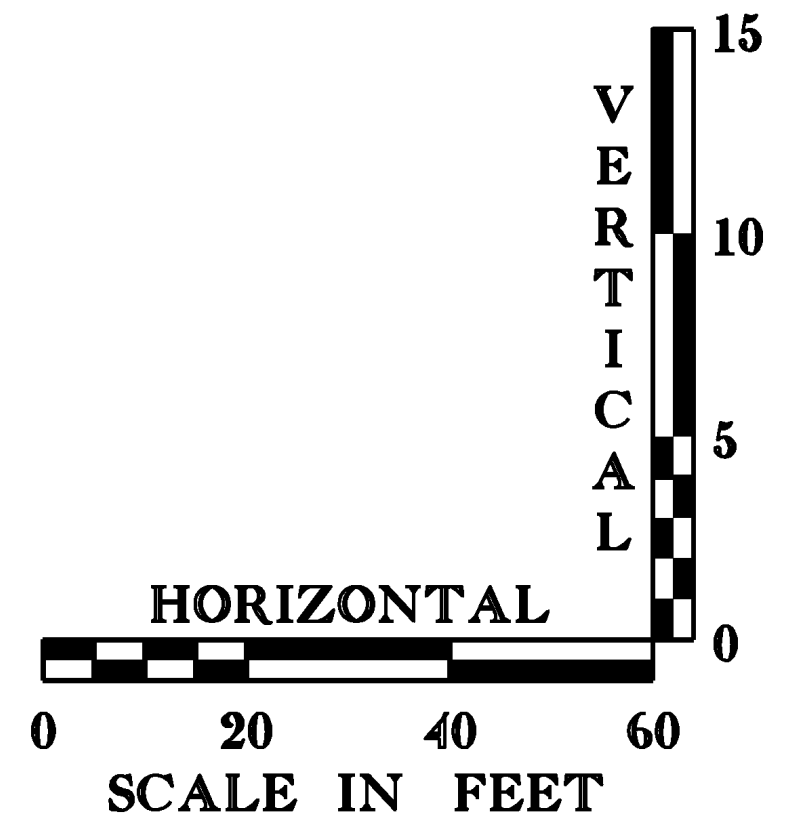
RAILROAD PROFILE



RAILROAD MAINLINE TOP OF RAIL
PROFILE

NOTES:
GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG CL.
GRADES SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADE ALONG CL.

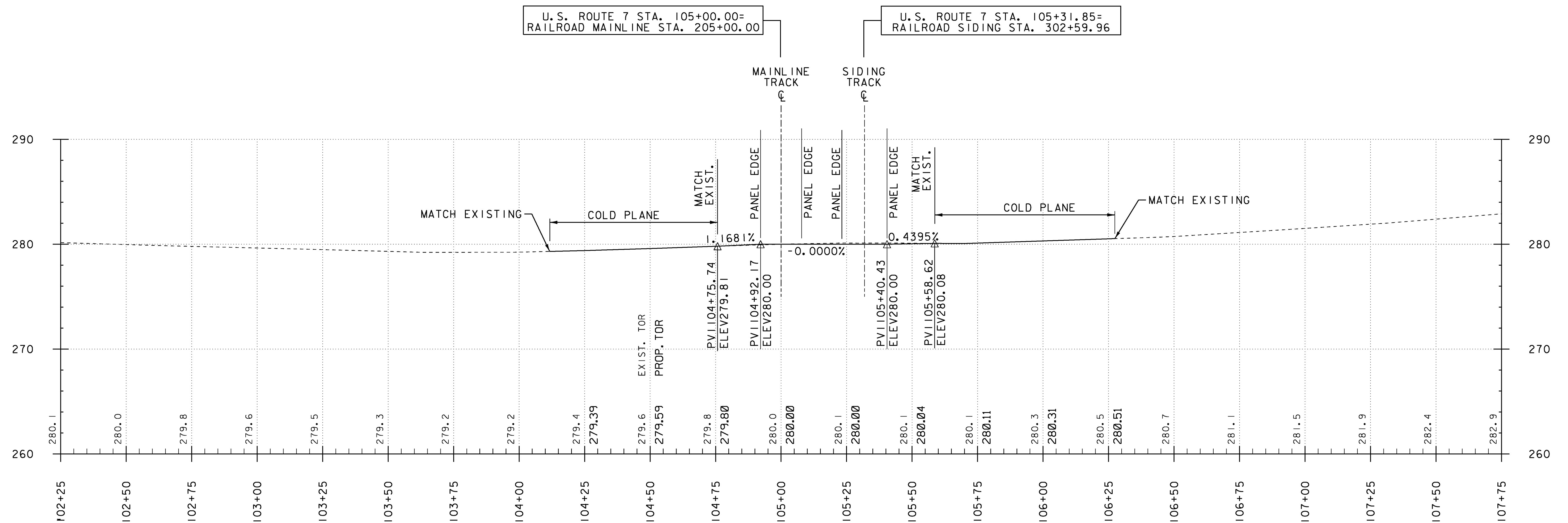
LINE	SURFACE	OFFSET
-----	x84e06log	0.00
-----	MAINLINE	0.00
Scaled	4.0000	Times Ver.
Scaled	1.0000	Times Hor.



RAILROAD SIDING TOP OF RAIL
PROFILE

PROJECT NAME:	NEW HAVEN
PROJECT NUMBER:	RAIL 5307(16)
FILE NAME:	z09g070/RAIL/bdr_xsl.dgn
PROJECT LEADER:	J.B.McCARTHY
DESIGNED BY:	LB
RAILROAD PROFILE	
PLOT DATE:	13-JUL-2010
DRAWN BY:	LB
CHECKED BY:	J.READ
SHEET	10 OF 18

ROADWAY PROFILE

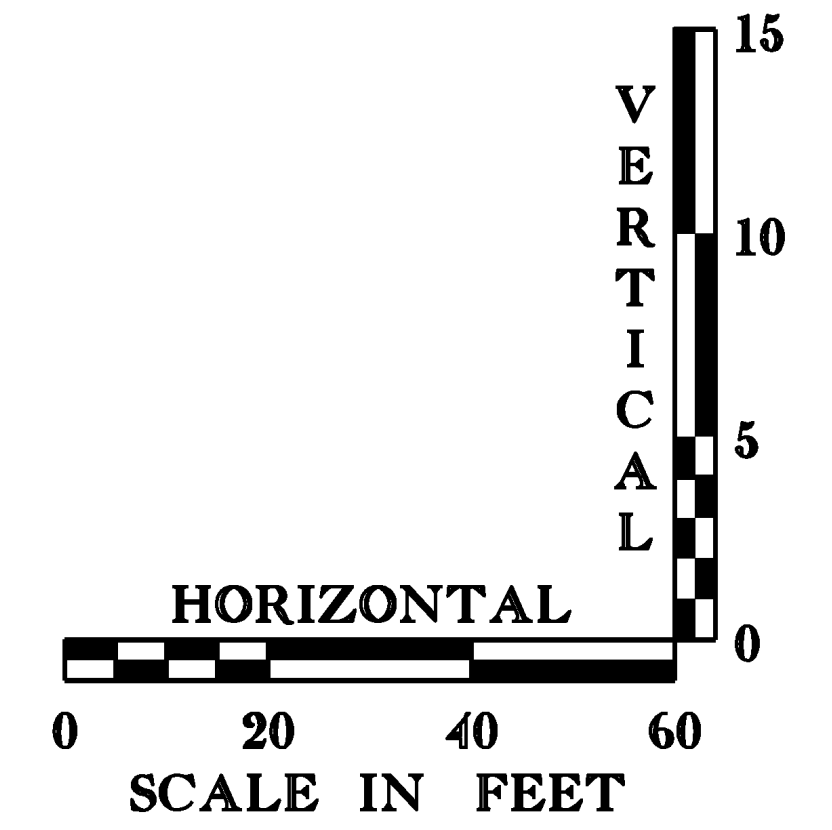


U. S. ROUTE 7 STA. 105+00.00=
RAILROAD MAINLINE STA. 205+00.00

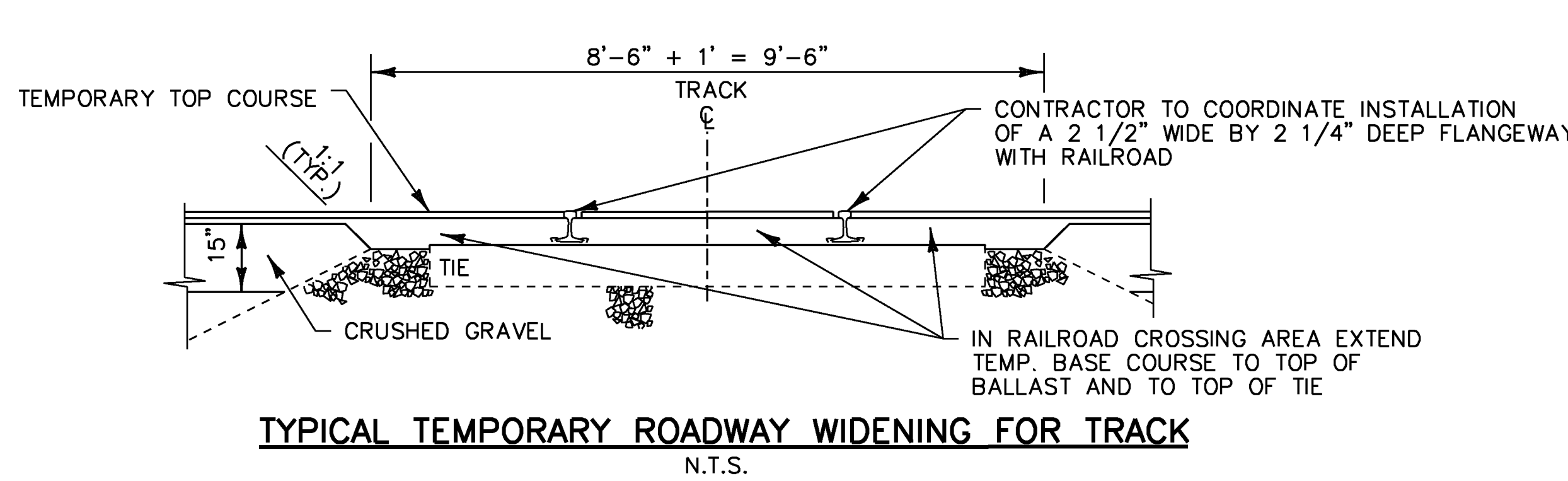
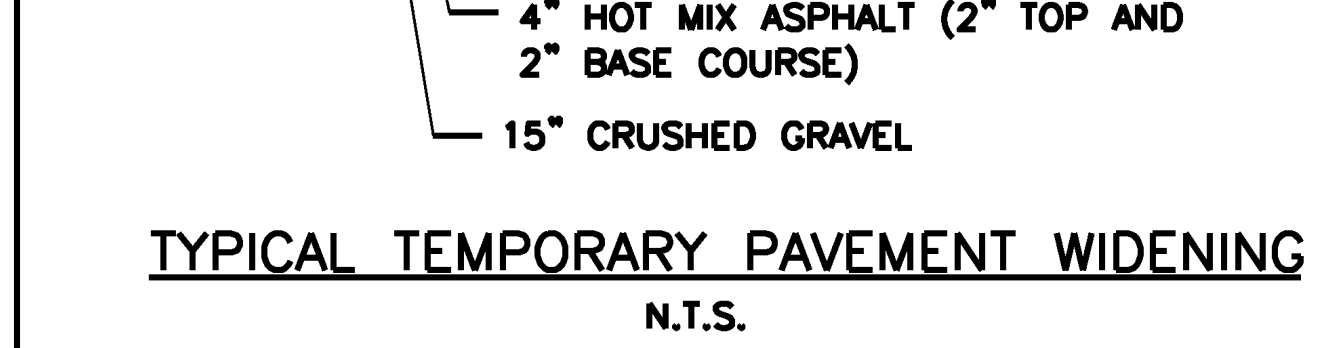
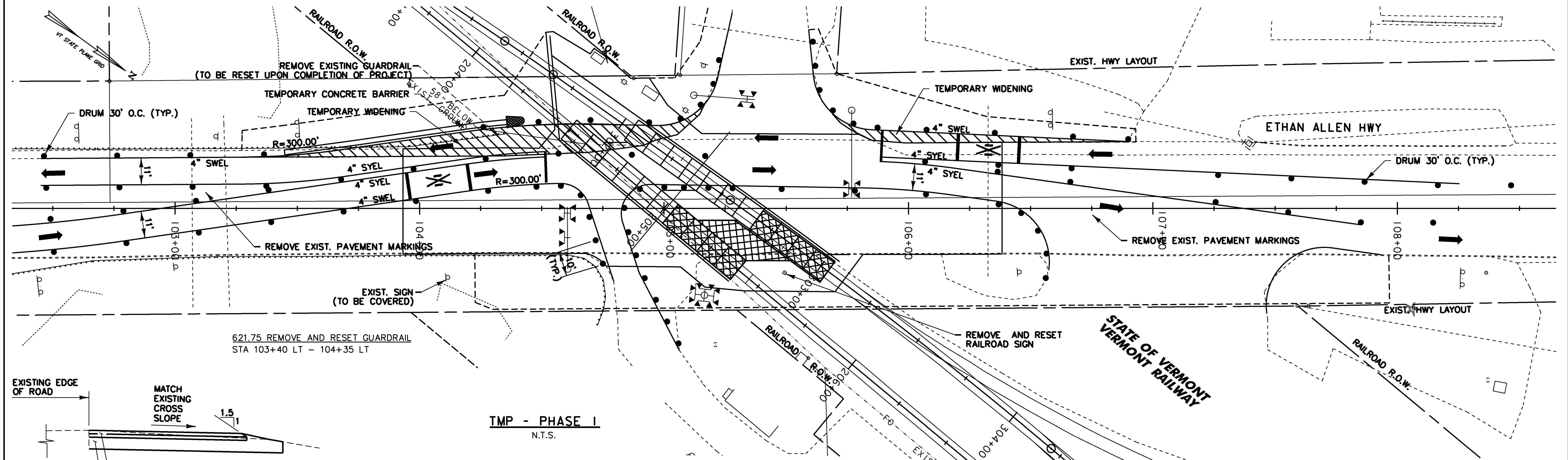
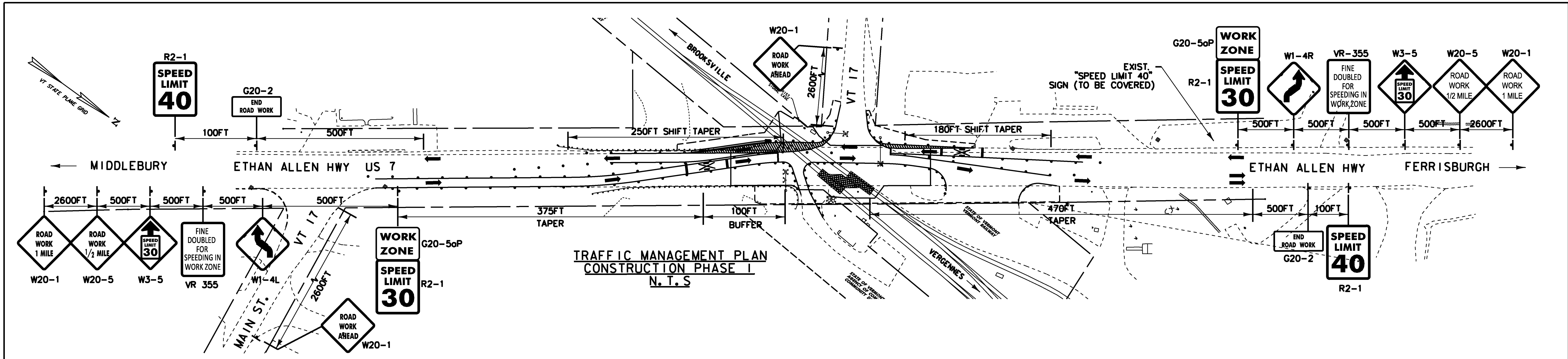
U. S. ROUTE 7 STA. 105+31.85=
RAILROAD SIDING STA. 302+59.96

LINE	SURFACE	OFFSET
-----	x84e06log	0.00
-----	MAINLINE	0.00
Scaled	4.0000	Times Ver.
Scaled	1.0000	Times Hor.

NOTES:
 GRADES SHOWN TO THE NEAREST TENTH
 ARE EXISTING GROUND ALONG ϕ .
 GRADES SHOWN TO THE NEAREST
 HUNDREDTH ARE FINISH GRADE ALONG ϕ .



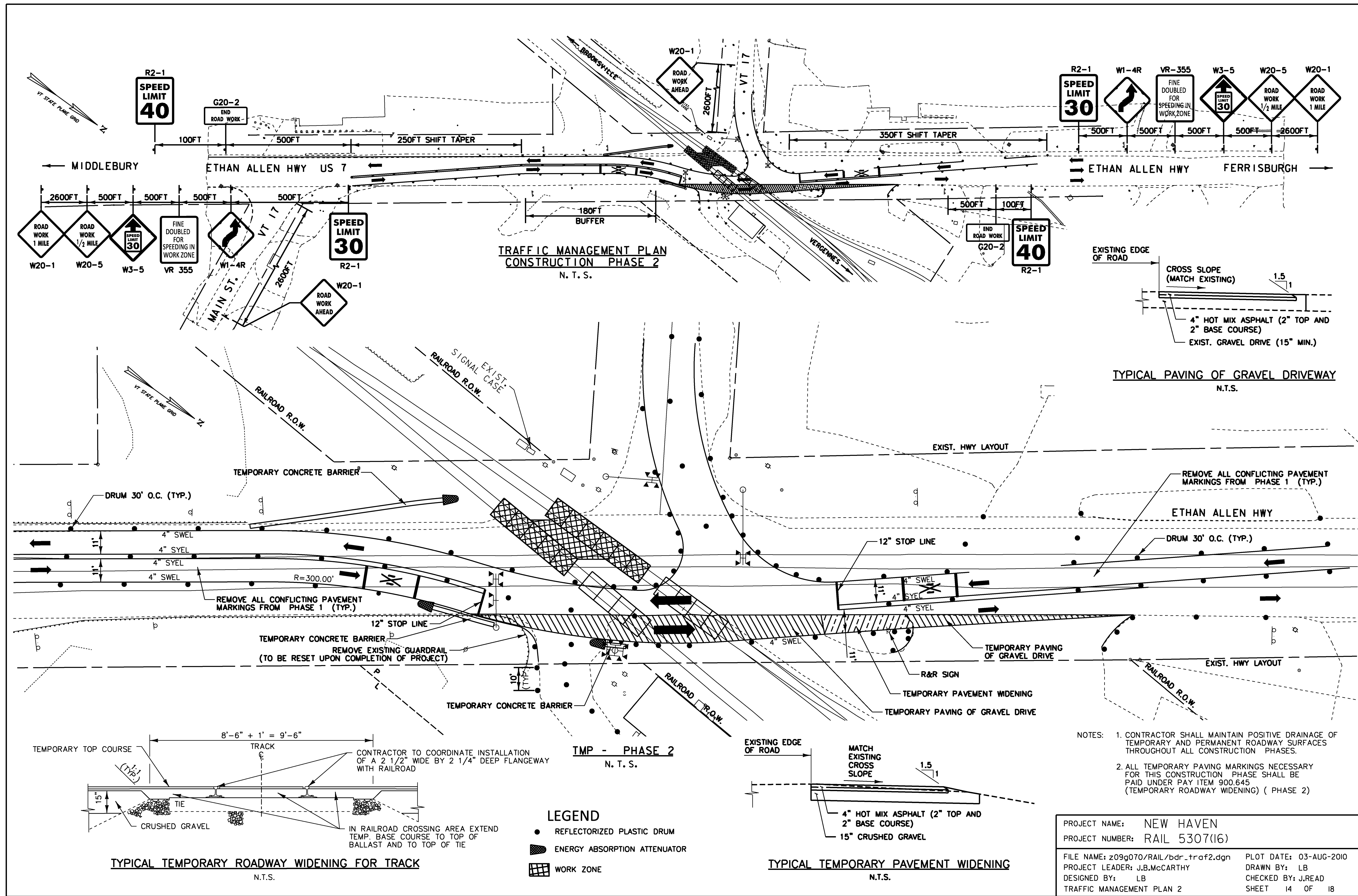
PROJECT NAME: NEW HAVEN	PLOT DATE: 13-JUL-2010
PROJECT NUMBER: RAIL 5307(16)	DRAWN BY: LB
FILE NAME: z09g070/RAIL/bdr_xsl.dgn	CHECKED BY: J.READ
PROJECT LEADER: J.B.McCARTHY	ROADWAY PROFILE
DESIGNED BY: LB	SHEET 11 OF 18



- LEGEND**
- REFLECTORIZED PLASTIC DRUM
 - ▭ ENERGY ABSORPTION ATTENUATOR
 - ▭ WORK ZONE

- NOTES:**
1. CONTRACTOR SHALL SUBMIT HIS TEMPORARY TRAFFIC MANAGEMENT PLAN FOR THE CONSTRUCTION OF THE TEMPORARY WIDENING FOR TMP-PHASE 1 TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PERFORMING THE TEMPORARY WIDENING.
 2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE OF TEMPORARY AND PERMANENT ROADWAY SURFACES THROUGHOUT ALL CONSTRUCTION PHASES.
 3. FURNISHING, PLACING, AND REMOVING MATERIALS FOR TEMPORARY WIDENING WILL BE PAID FOR UNDER ITEM 900.645 SPECIAL PROVISION (TEMPORARY ROADWAY WIDENING).
 4. ALL TEMPORARY PAVING MARKINGS NECESSARY FOR THIS CONSTRUCTION STAGE SHALL BE PAID UNDER PAY ITEM 900.645 (TEMPORARY ROADWAY WIDENING) (PHASE 1)

PROJECT NAME:	NEW HAVEN
PROJECT NUMBER:	RAIL 5307(16)
FILE NAME:	z09g070/RAIL/bdr_trafl.dgn
PROJECT LEADER:	J.B.McCARTHY
DESIGNED BY:	LB
TRAFFIC MANAGEMENT PLAN 1	CHECKED BY: J.READ
	PLOT DATE: 03-AUG-2010
	DRAWN BY: LB
	SHEET 13 OF 18



**TRAFFIC MANAGEMENT PLAN
CONSTRUCTION PHASE 2**
N. T. S.

TYPICAL PAVING OF GRAVEL DRIVEWAY
N.T.S.

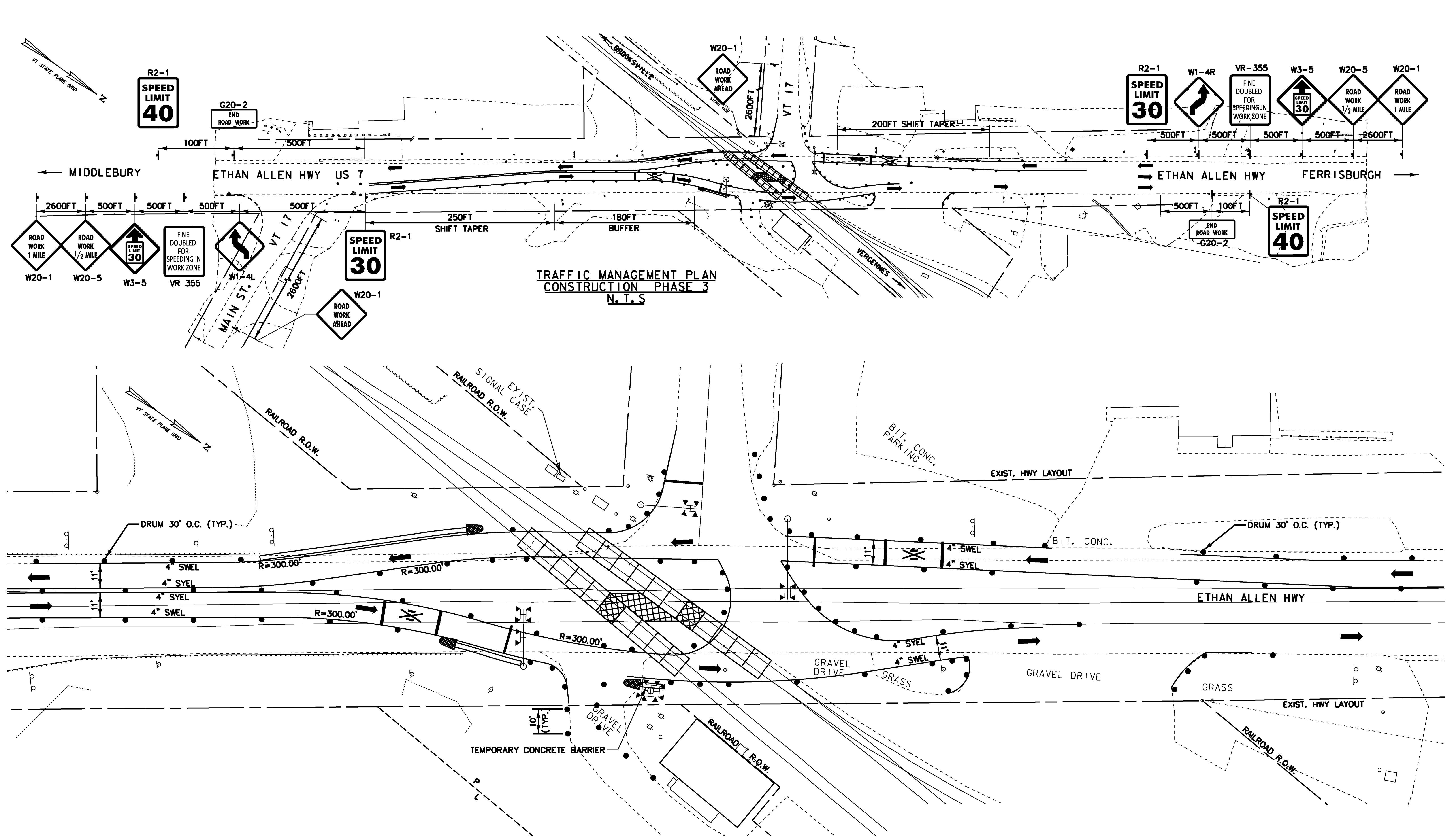
TYPICAL TEMPORARY ROADWAY WIDENING FOR TRACK
N.T.S.

TYPICAL TEMPORARY PAVEMENT WIDENING
N.T.S.

- NOTES:
- CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE OF TEMPORARY AND PERMANENT ROADWAY SURFACES THROUGHOUT ALL CONSTRUCTION PHASES.
 - ALL TEMPORARY PAVING MARKINGS NECESSARY FOR THIS CONSTRUCTION PHASE SHALL BE PAID UNDER PAY ITEM 900.645 (TEMPORARY ROADWAY WIDENING) (PHASE 2)

PROJECT NAME:	NEW HAVEN
PROJECT NUMBER:	RAIL 5307(16)
FILE NAME:	z09g070/RAIL/bdr_traf2.dgn
PROJECT LEADER:	J.B.McCARTHY
DESIGNED BY:	LB
TRAFFIC MANAGEMENT PLAN 2	CHECKED BY: J.READ
	PLOT DATE: 03-AUG-2010
	DRAWN BY: LB
	SHEET 14 OF 18

- LEGEND**
- REFLECTORIZED PLASTIC DRUM
 - ENERGY ABSORPTION ATTENUATOR
 - ▨ WORK ZONE



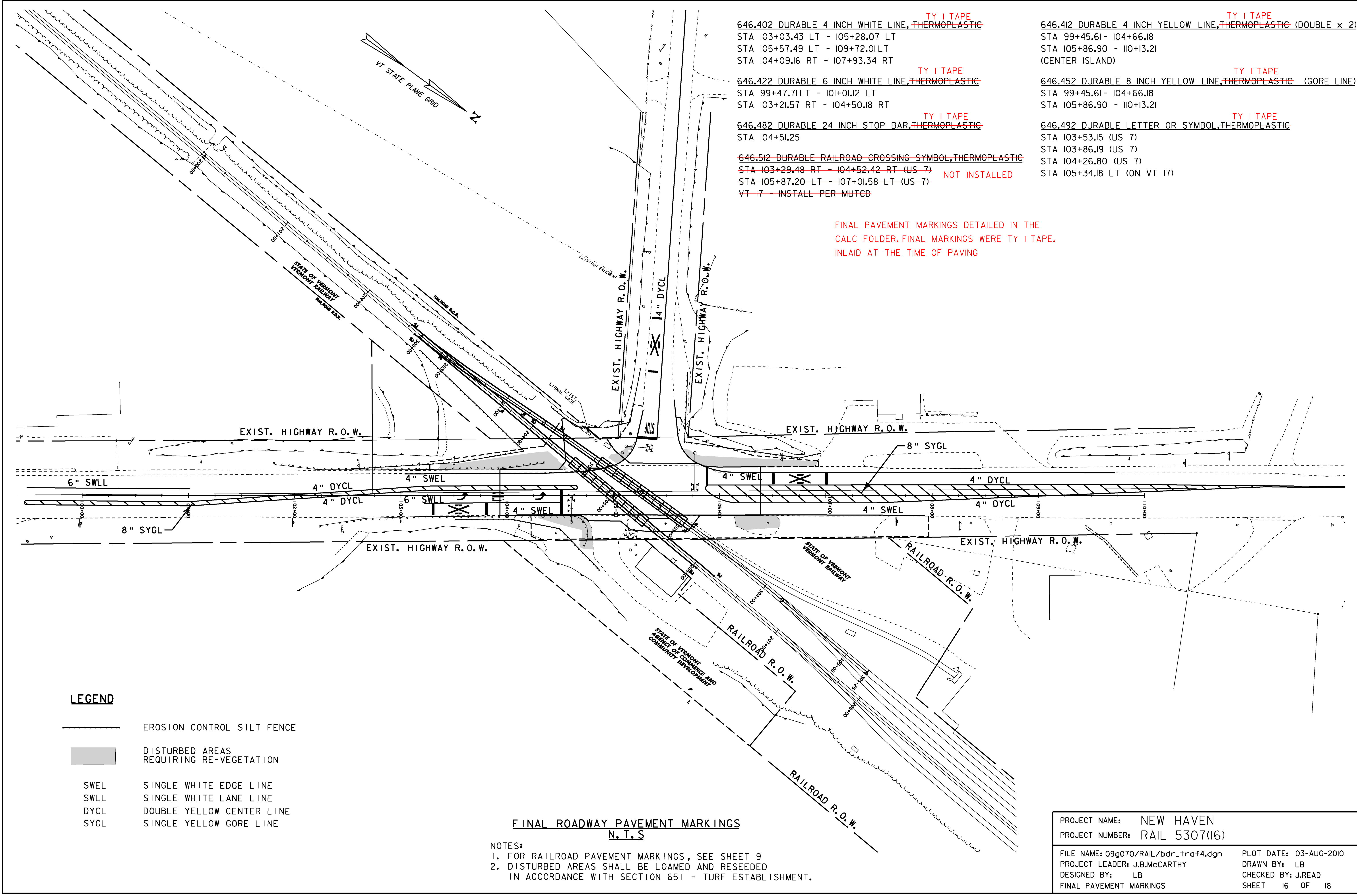
**TRAFFIC MANAGEMENT PLAN
CONSTRUCTION PHASE 3
N. T. S**

**TMP - PHASE 3
N. T. S.**

- LEGEND**
- REFLECTORIZED PLASTIC DRUM
 - ▬ ENERGY ABSORPTION ATTENUATOR
 - ▭ WORK ZONE

- NOTES:**
1. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE OF TEMPORARY AND PERMANENT ROADWAY SURFACES THROUGHOUT ALL CONSTRUCTION PHASES.
 2. ALL TEMPORARY PAVING MARKINGS NECESSARY FOR THIS CONSTRUCTION PHASE SHALL BE PAID UNDER PAY ITEM 900.645 (TEMPORARY ROADWAY WIDENING) (PHASE 3)

PROJECT NAME: NEW HAVEN	PLOT DATE: 03-AUG-2010
PROJECT NUMBER: RAIL 5307(16)	DRAWN BY: LB
FILE NAME: z09g070/RAIL/bdr_traf3.dgn	CHECKED BY: J.READ
PROJECT LEADER: J.B.McCARTHY	SHEET 15 OF 18
DESIGNED BY: RWH	
TRAFFIC MANAGEMENT PLAN 3	



646,402 DURABLE 4 INCH WHITE LINE, THERMOPLASTIC ^{TY I TAPE}
 STA 103+03.43 LT - 105+28.07 LT
 STA 105+57.49 LT - 109+72.01 LT
 STA 104+09.16 RT - 107+93.34 RT

646,422 DURABLE 6 INCH WHITE LINE, THERMOPLASTIC ^{TY I TAPE}
 STA 99+47.71 LT - 101+01.12 LT
 STA 103+21.57 RT - 104+50.18 RT

646,482 DURABLE 24 INCH STOP BAR, THERMOPLASTIC ^{TY I TAPE}
 STA 104+51.25

~~646,512 DURABLE RAILROAD CROSSING SYMBOL, THERMOPLASTIC~~
~~STA 103+29.48 RT - 104+52.42 RT (US 7)~~ NOT INSTALLED
~~STA 105+87.20 LT - 107+01.58 LT (US 7)~~
 VT-17 - INSTALL PER MUTCD



646,412 DURABLE 4 INCH YELLOW LINE, THERMOPLASTIC (DOUBLE x 2) ^{TY I TAPE}
 STA 99+45.61 - 104+66.18
 STA 105+86.90 - 110+13.21
 (CENTER ISLAND)

646,452 DURABLE 8 INCH YELLOW LINE, THERMOPLASTIC (GORE LINE) ^{TY I TAPE}
 STA 99+45.61 - 104+66.18
 STA 105+86.90 - 110+13.21

646,492 DURABLE LETTER OR SYMBOL, THERMOPLASTIC ^{TY I TAPE}
 STA 103+53.15 (US 7)
 STA 103+86.19 (US 7)
 STA 104+26.80 (US 7)
 STA 105+34.18 LT (ON VT 17)

FINAL PAVEMENT MARKINGS DETAILED IN THE
 CALC FOLDER. FINAL MARKINGS WERE TY I TAPE,
 INLAID AT THE TIME OF PAVING

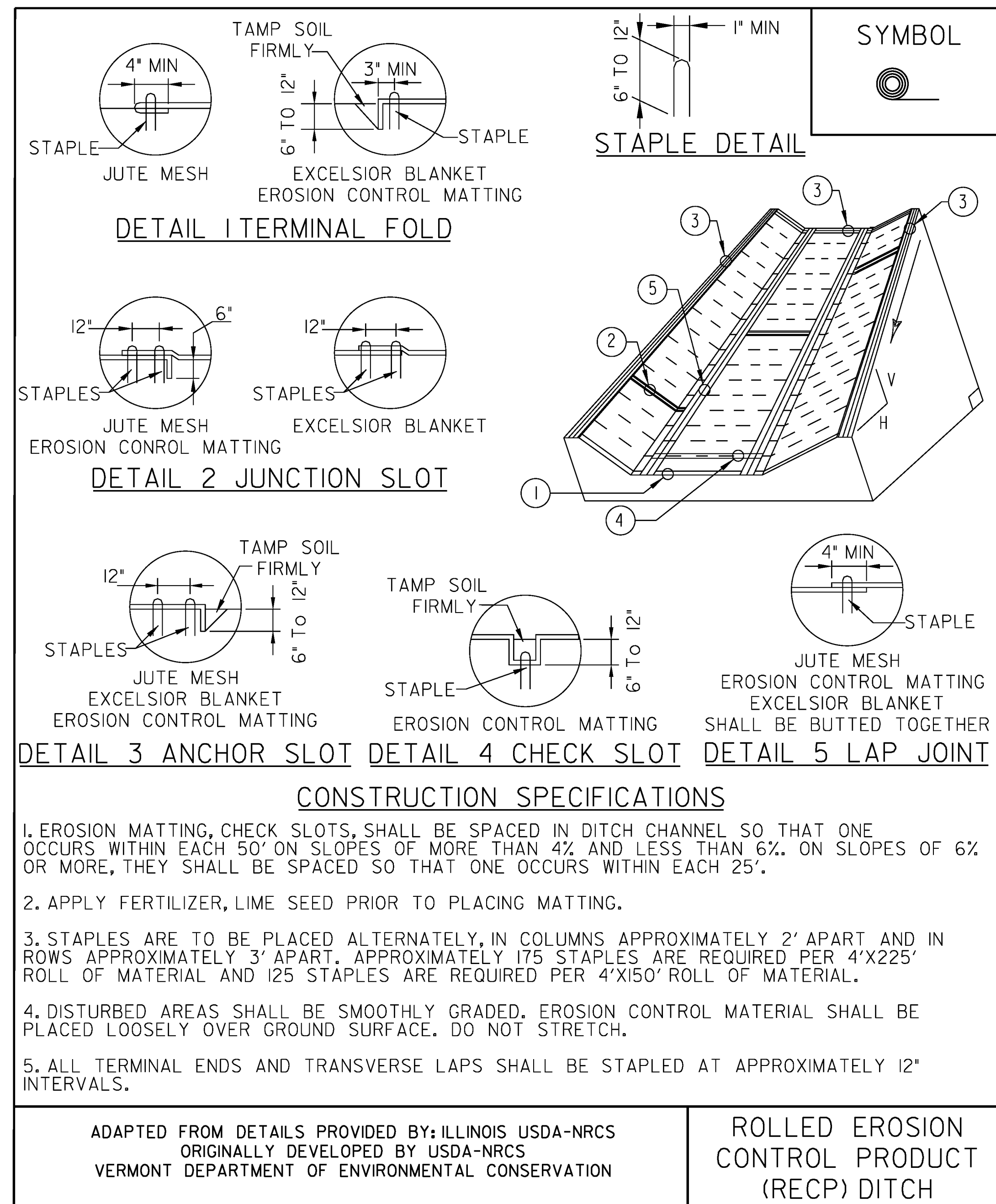
LEGEND

-  EROSION CONTROL SILT FENCE
-  DISTURBED AREAS REQUIRING RE-VEGETATION
- SWEL SINGLE WHITE EDGE LINE
- SWLL SINGLE WHITE LANE LINE
- DYCL DOUBLE YELLOW CENTER LINE
- SYGL SINGLE YELLOW GORE LINE

FINAL ROADWAY PAVEMENT MARKINGS
 N. T. S

- NOTES:
- FOR RAILROAD PAVEMENT MARKINGS, SEE SHEET 9
 - DISTURBED AREAS SHALL BE LOAMED AND RESEEDED IN ACCORDANCE WITH SECTION 651 - TURF ESTABLISHMENT.

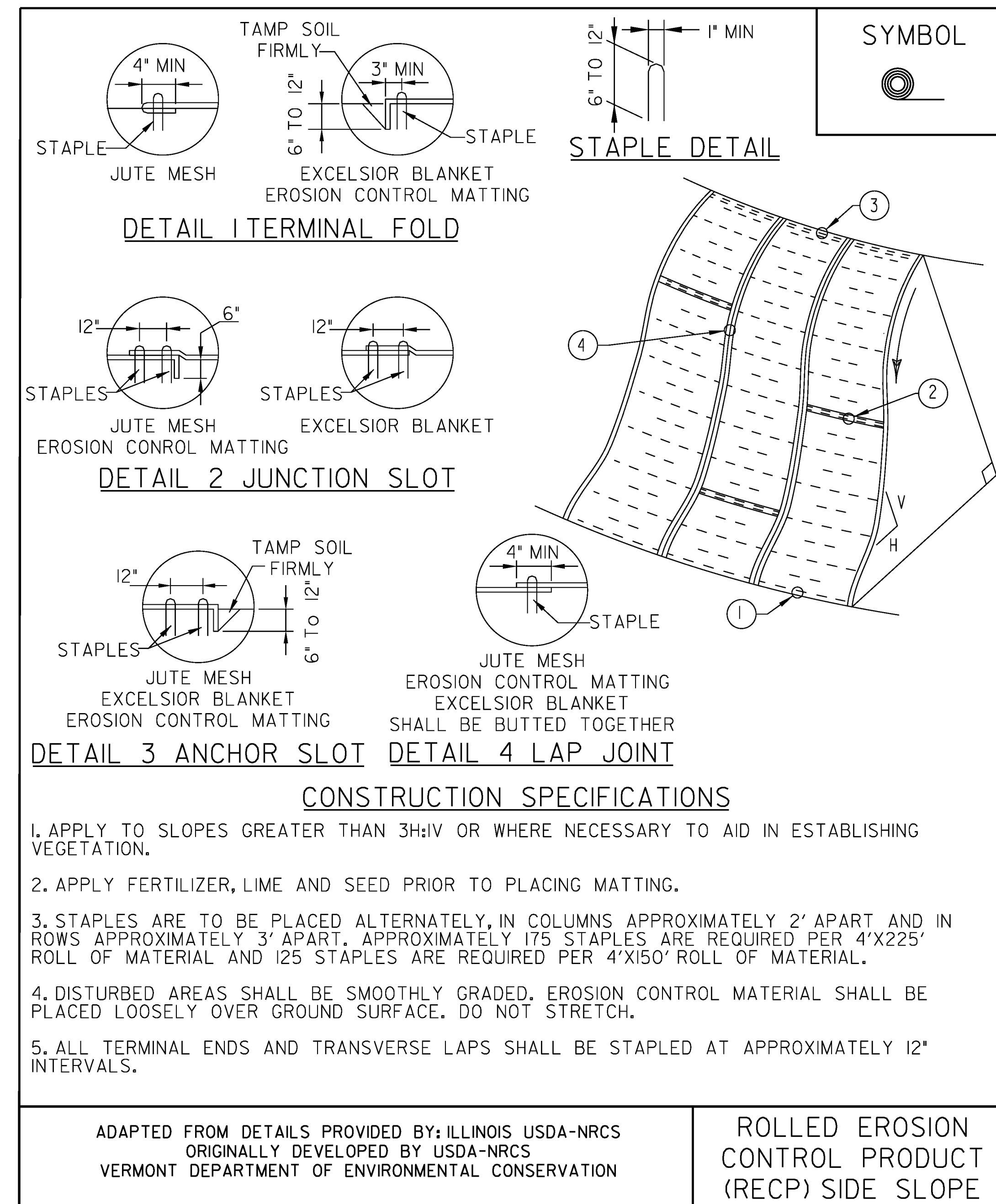
PROJECT NAME:	NEW HAVEN	PLOT DATE:	03-AUG-2010
PROJECT NUMBER:	RAIL 5307(16)	DRAWN BY:	LB
FILE NAME:	09g070/RAIL/bdr_traf4.dgn	CHECKED BY:	J.READ
PROJECT LEADER:	J.B.McCARTHY	DESIGNED BY:	LB
DESIGNED BY:	LB	FINAL PAVEMENT MARKINGS	SHEET 16 OF 18



NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM
653.20 TEMPORARY EROSION MATTING OR
653.21 PERMANENT EROSION MATTING

REVISIONS	
MARCH 8, 2007	JMF
APRIL 16, 2007	WHF



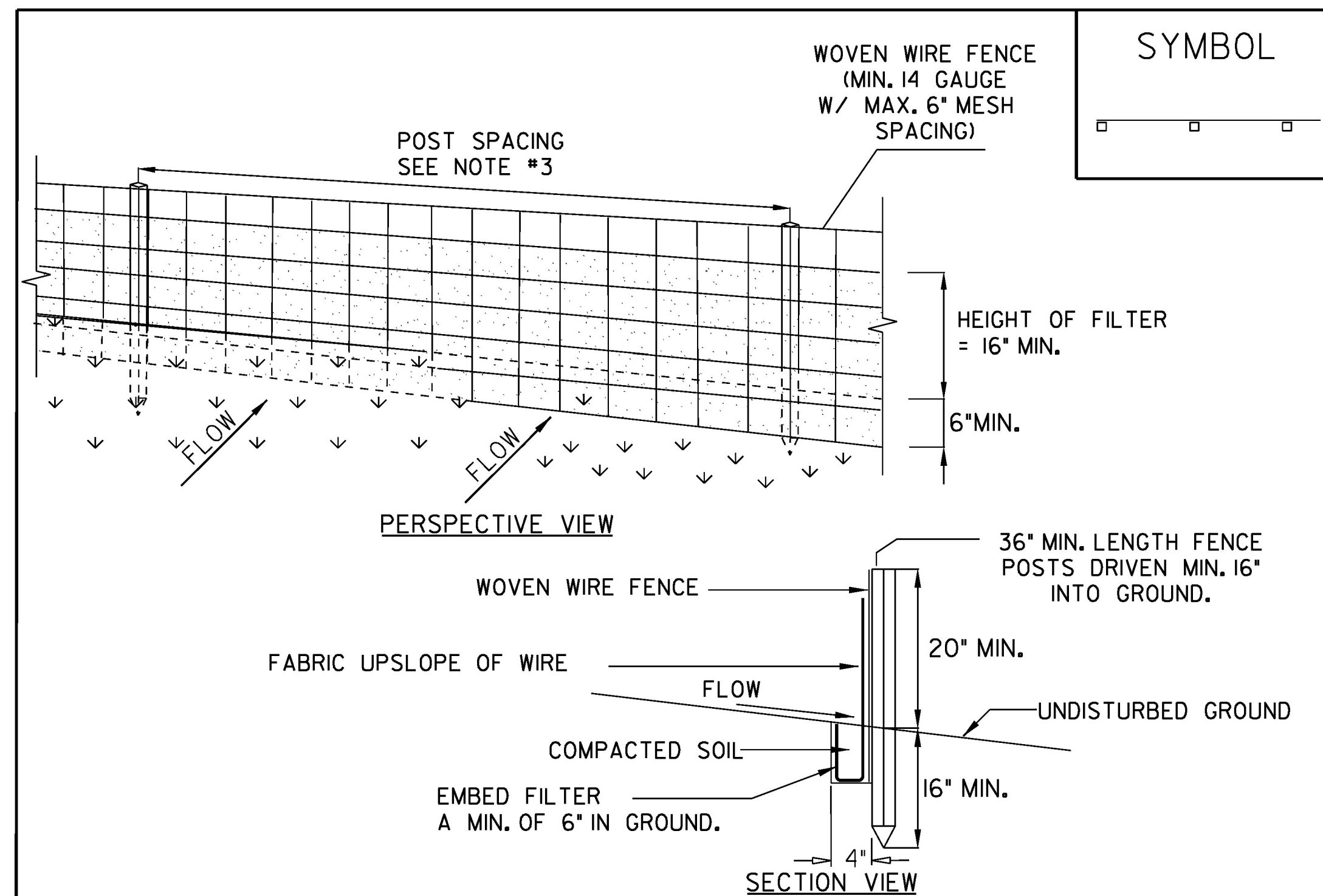
NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM
653.20 TEMPORARY EROSION MATTING OR
653.21 PERMANENT EROSION MATTING

NEW	
APRIL 16, 2007	WHF

PROJECT NAME: NEW HAVEN
PROJECT NUMBER: RAIL 5307(16)

FILE NAME: z09g070/Rail/erode+tails.dgn PLOT DATE: 13-JUL-2010
PROJECT LEADER: J.B.McCARTHY DRAWN BY: M.FESSEL
DESIGNED BY: LB CHECKED BY: J.READ
EPSC DETAIL SHEET 1 SHEET 17 OF 18



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE REINFORCEMENT IS ONLY REQUIRED WITHIN 100 FT UPSLOPE OF RECEIVING WATERS.
2. WHERE REQUIRED FENCE SHALL BE WOVEN WIRE, MIN. 14 GAUGE WITH A 6" MAXIMUM MESH OPENING. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4'. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
6. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SILT FENCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS ITEM SHALL BE PAID FOR UNDER ITEM
649.51 GEOTEXTILE FOR SILT FENCE OR
649.515 GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED

VAOT RURAL AREA MIX					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	BROADCAST	HYDROSEED			
37.5%	22.5	45	CREEPING RED FESCUE	85%	98%
37.5%	22.5	45	TALL FESCUE	90%	95%
5.0%	3	6	RED TOP	90%	95%
15.0%	9	18	BIRDSFOOT TREFOIL	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	85%	95%
100%	60	120			

VAOT URBAN AREA MIX					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	BROADCAST	HYDROSEED			
42.5%	34	68	CREEPING RED FESCUE	85%	98%
10.0%	8	16	PERENNIAL RYE GRASS	90%	95%
42.5%	34	68	KENTUCKY BLUE GRASS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	85%	95%
100%	80	160			

GENERAL GUIDANCE			
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10-20-10	19-19-19	PELLETIZED	LIQUID
500 LBS/AC		2 TONS/AC	4.4 GAL/AC

CONSTRUCTION GUIDANCE

1. RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
2. URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
7. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
8. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MAUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

REVISIONS	
JUNE 23, 2009	WHF
JANUARY 15, 2010	WHF

PROJECT NAME: NEW HAVEN
PROJECT NUMBER: RAIL 5307(16)

FILE NAME: z09g070/Rail/erodetails.dgn PLOT DATE: 13-JUL-2010
PROJECT LEADER: J.B.McCARTHY DRAWN BY: M.FESSEL
DESIGNED BY: LB CHECKED BY: J.READ
EPSC DETAIL SHEET 2 SHEET 18 OF 18