STATE OF VERMONT
AGENCY OF TRANSPORTATION

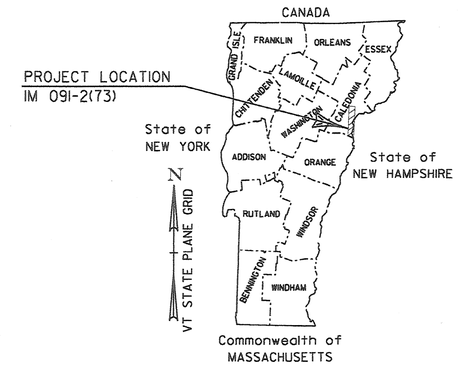
PROPOSED IMPROVEMENT
TOWNS OF RYEGATE, BARNET, WATERFORD & ST. JOHNSBURY
COUNTY OF CALEDONIA

INTERSTATE ROUTE 91 - SIGNS

BEGINNING AT THE NEWBURY / RYEGATE TOWN LINE (MM 110.96)
AND EXTENDING APPROXIMATELY 28.89 KM (17.95 MI)
TO MM 128.91, IN THE TOWN OF ST. JOHNSBURY

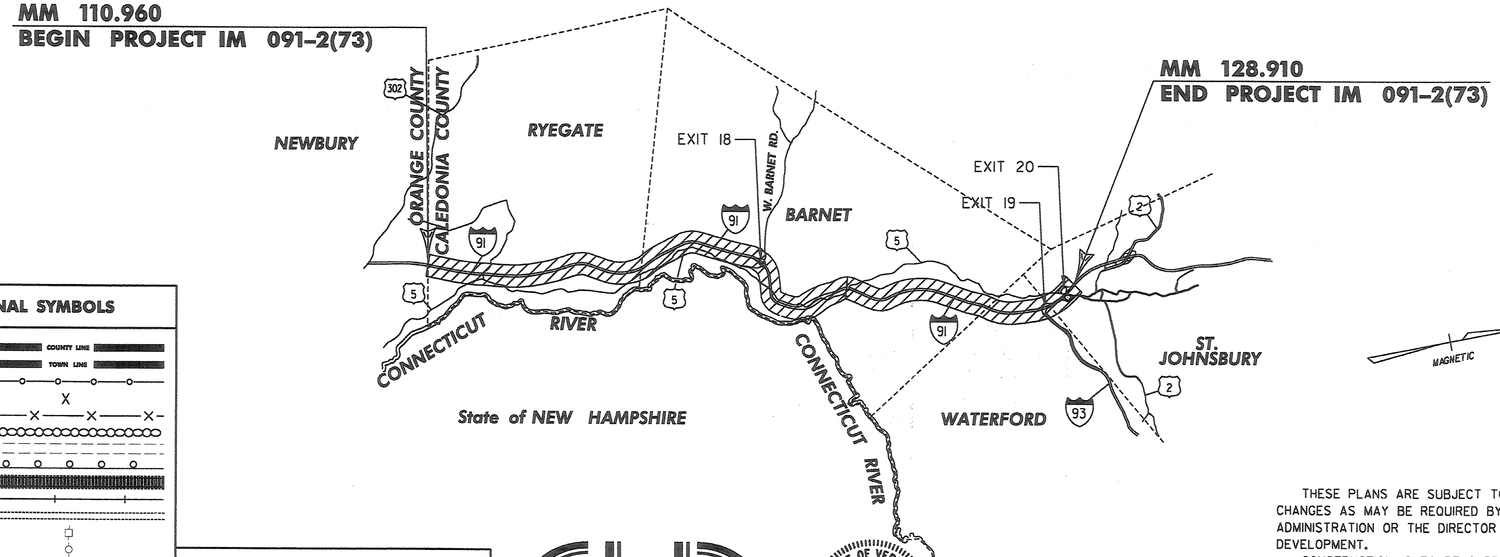
LENGTH OF ROADWAY 28 888 METERS = 17.95 MILES = 28.89 KILOMETERS
LENGTH OF PROJECT 28 888 METERS = 17.95 MILES = 28.89 KILOMETERS

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES REMOVAL OF EXISTING SIGNS AND PLACEMENT OF NEW SIGNS AND ASSOCIATED ELEMENTS ALONG THE PROJECT LENGTH, RAMPS, AND INTERCHANGES.



TRAFFIC DATA

NORTHBOUND	SOUTHBOUND
INTERSTATE 91	
2000 ADT = 2300+/-	2000 ADT = 2300+/-



RECORD PLANS

CONTRACTOR:	F.R. LAFAYETTE, INC. – ESSEX JUNCTION, VT
RESIDENT ENGINEER:	JIM FOREST
CONSTRUCTION BEGAN:	APRIL 23, 2007
CONSTRUCTION COMPLETE:	APRIL 25, 2008
RECORD PLANS BY:	JIM FOREST & C. PIERCE

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

BY James A. Forest RESIDENT ENGINEER

DATE 05-24-10

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.

CONVENTIONAL SYMBOLS

COUNTY LINE	COUNTY LINE
TOWN LINE	TOWN LINE
LIMITS OF ACCESS	
POINT OF ACCESS	X
FENCE LINE	X—X—X—X
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

CONSULTING ENGINEERS Inc.
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email: cld@cldengineers.com • www.cldengineers.com
Maine • New Hampshire • Vermont

STATE OF VERMONT CHRISTOPHER R. KEAN No. 5529 REGISTERED PROFESSIONAL ENGINEER

1 0 1 2 KILOMETER
SCALE

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 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

METRIC
UNLESS NOTED OTHERWISE
STATIONS ARE IN MILES
ELEVATIONS ARE IN METERS
DIMENSIONS ARE IN MILLIMETERS

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATOR
APPROVED for Mark D. Richter DATE 1-16-07

DIRECTOR OF PROGRAM DEVELOPMENT
APPROVED James V. Ehl DATE 11-20-2006

PROJECT MANAGER : ROGER THOMPSON

PROJECT NAME : RYEGATE - ST. JOHNSBURY
PROJECT NUMBER : AC IM 091-2 (73)

SHEET 1 OF 88 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

INDEX OF SHEETS

Metric

INDEX OF STANDARD PLANS

STD	DATE	DESCRIPTION
D-4	06/01/94	FLUSHING BASINS, END SECTION, ELBOWS - TYPICAL WATERFALL FOR CULVERTS UP TO AND INCLUDING 48" DIA - EXTENSION SERVICE BOX AND CURB STOP - CORRUGATED PIPE ELBOW
E-100	01/02/04	CONSTRUCTION APPROACH SIGNS
E-100A	01/02/04	SIDE ROAD CONSTRUCTION - APPROACH SIGNS
E-101	05/30/03	CONSTRUCTION SIGN DETAILS
E-102	06/30/03	CONSTRUCTION SIGN DETAILS
E-102A	05/01/04	CONSTRUCTION SIGN DETAILS
E-103	03/01/04	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY - ONE LANE CLOSED
E-106	03/01/04	TRAFFIC CONTROL - MISCELLANEOUS DETAILS
E-107	06/30/03	DELINEATION, BARRICADES AND DETOURS FOR - U-TURNS ON DIVIDED HIGHWAY
E-107A	08/08/95	BREAKAWAY BARRICADE DETAILS
E-110	08/08/95	MAJOR MAINTENANCE OPERATION LANE CLOSURE
E-120	08/08/95	STANDARD SIGN PLACEMENT - EXPRESSWAY & FREEWAY
E-121	08/08/95	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD
E-123	03/16/04	GUIDE SIGN PLACEMENT - MISCELLANEOUS DETAILS
E-126	02/01/00	TYPICAL FREEWAY INTERCHANGE SIGNING
E-127	08/08/95	ROUTE MARKINGS AT RURAL INTERSECTIONS
E-130	08/08/95	TYPE "B" GUIDE SIGN, ATTACHMENT DETAILS
E-131	08/08/95	GUIDE SIGN DETAILS
E-132	08/18/95	GENERAL MOTORIST SERVICE SIGN DETAILS
E-133	08/08/95	SERVICE SIGN DETAILS
E-135	08/18/95	INTERSTATE ROUTE MARKER SIGN DETAIL
E-136A	08/08/95	U.S. ROUTE MARKER SIGN DETAILS
E-136B	08/08/95	STATE ROUTE MARKER SIGN DETAILS
E-139	05/01/04	MILEMARKER DETAILS - INTERSTATE
E-141	09/20/95	REGULATORY SIGN DETAILS
E-142	09/20/95	REGULATORY SIGN DETAILS
E-143	06/15/04	REGULATORY SIGN DETAILS
E-144	03/29/99	REGULATORY SIGN DETAILS
E-145B	12/23/94	REGULATORY SIGN DETAILS - LANE USE CONTROL SIGNS
E-146	09/20/95	REGULATORY SIGN DETAILS
E-150	05/01/04	WARNING SIGN DETAILS
E-151	05/01/04	WARNING SIGN DETAILS
E-152	05/01/04	WARNING SIGN DETAILS
E-153	05/01/04	WARNING SIGN DETAILS
E-154	05/01/04	WARNING SIGN DETAILS
E-155	05/01/04	WARNING SIGN DETAILS
E-160	05/20/99	FLANGED CHANNEL STEEL SIGN POST
E-161	08/18/95	W-SHAPED STEEL SIGN POST
E-162	05/20/99	TUBULAR ALUMINUM SIGN POST
E-163	05/20/99	TUBULAR STEEL SIGN POST
E-164	05/20/99	SQUARE STEEL SIGN POST
E-191	02/01/99	PAVEMENT MARKING DETAILS
E-192	10/12/00	PAVEMENT MARKING DETAILS
E-193	08/18/95	PAVEMENT MARKING DETAILS
E-197	04/01/05	DELINEATOR PLACEMENT TYPICAL
E-199	04/01/05	DELINEATOR AND MILEPOST MOUNTING ON BRIDGE RAIL
G-1	01/03/00	STEEL BEAM GUARDRAIL (50MPH & OVER) - HEAVY DUTY STEEL BEAM GUARDRAIL TWISTED END TERMINAL - ANCHOR FOR STEEL BEAM RAIL
G-1D	01/03/00	STEEL BEAM GUARDRAIL (40MPH & LESS) - HEAVY DUTY STEEL BEAM GUARDRAIL STEEL BEAM MEDIAN BARRIER - ANCHOR FOR STEEL BEAM RAIL
G-19	11/15/02	GENERIC GRADING PLANS FOR GUARDRAIL END TERMINALS

INDEX OF SHEETS

PROJECT NAME:	RYEGATE-ST. JOHNSBURY		
PROJECT NUMBER:	IM 091-2(73)		
FILE NAME:	indexRyegate.xls	PLOT DATE:	10/16/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	JAW	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	2 OF 88

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION (VTRANS) STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2001, AND ITS LATEST REVISIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), DATED 2003, AND ITS LATEST REVISIONS.

2. ALL SIGNS WITHIN THE PROJECT LIMITS ARE TO BE REPLACED UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE ENGINEER. ALL NEW SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS, MUTCD, APPLICABLE VTRANS E-SERIES STANDARDS OR AS DIRECTED BY THE ENGINEER.

3. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH APPLICABLE VTRANS E-SERIES STANDARDS AND PART 6 OF THE MUTCD OR AS DIRECTED BY THE ENGINEER.

4. TEXT LAYOUT DIMENSIONS AND DESIGN OF SYMBOLS FOR STANDARD SIGNS NOT DETAILED ON THESE PLANS OR IN THE E-SERIES STANDARDS CAN BE FOUND IN THE LATEST PUBLICATION OF THE MUTCD STANDARD HIGHWAY SIGNS.

5. THE CONTRACTOR SHALL REVIEW AND UNDERSTAND ALL APPLICABLE PERMITS PRIOR TO CONSTRUCTION AND ENSURE THAT ALL CONSTRUCTION CONDITIONS ARE MET.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY CAUSED BY THE CONTRACTOR, AT THE SOLE COST OF THE CONTRACTOR.

7. THINNING AND TRIMMING MAY BE REQUIRED AT VARIOUS SIGN LOCATIONS THROUGHOUT THE PROJECT. THIS WORK SHALL INCLUDE REMOVAL OF ANY TREES, SHRUBS OR OVERGROWTH NECESSARY FOR PLACEMENT OF SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID UNDER ITEM 201.31, "THINNING AND TRIMMING (FOR SIGNS)".

8. THE CONTRACTOR SHALL ERECT NEW POSTS AND MOUNT NEW SIGNS BEHIND EXISTING SIGNS PRIOR TO REMOVING THE OLD SIGN AND POSTS, WHERE APPLICABLE, OR AS DIRECTED BY THE ENGINEER.

9. THE ABBREVIATIONS "OUT" AND "MED" REFER TO LOCATIONS OUTSIDE OF THE NORTHBOUND OR SOUTHBOUND INTERSTATE BARREL OR IN THE MEDIAN, RESPECTIVELY. ANY REFERENCE TO "LEFT" AND/OR "RIGHT" REFERS TO THE DIRECTION OF STATIONING AND NOT THE DIRECTION OF TRAFFIC.

10. DELINEATORS: NEW MAINLINE DELINEATORS WITH OR WITHOUT MILEPOST PLAQUES ARE NOT SHOWN ON THE PLANS. REFER TO STANDARD E-197 AND DETAILS ON NEXT SHEET FOR GENERAL PLACEMENT AND SPACING CRITERIA. AN ESTIMATED QUANTITY OF DELINEATORS W/STEEL POSTS AND REMOVAL OF EXISTING DELINEATORS HAS BEEN INCLUDED. DELINEATORS TO BE REMOVED SHALL NOT BE CUT BUT SHALL BE COMPLETELY REMOVED FROM THE GROUND.

11. EXISTING MILEMARKERS ON STATE HIGHWAYS OR FOR RAMPS ARE TO BE SALVAGED AND INSTALLED ON POSTS FOR NEW SIGNS OR RETAINED IF ON SEPARATE POSTS OR AS DIRECTED BY THE ENGINEER. THE MILEMARKER LOCATIONS ARE NOT DEPICTED ON THE PLANS. PAYMENT FOR ATTACHING TO NEW POSTS IS INCIDENTAL TO OTHER CONTRACT PAY ITEMS.

12. ALL STATIONING ALONG RAMPS AND STATE/TOWN HIGHWAYS IN MILES ARE APPROXIMATE ONLY. REFER TO STANDARD SHEETS FOR APPROPRIATE SIGN PLACEMENT GUIDELINES.

SEEDING FORMULA
RURAL AREAS

%. MASS.	kg/ha	NAME	PUR %	GERM %
37.5	26.0	CREEPING RED FESCUE	98	85
37.5	26.0	TALL FESCUE	95	90
5.0	4.0	RED TOP	95	90
15.0	10.0	BIRDSFOOT TREFOIL	98	85
5.0	4.0	ANNUAL RYE GRASS	95	85
100.0	70.0			

SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY MASS AND SHALL BE FREE OF ALL NOXIOUS SEED.

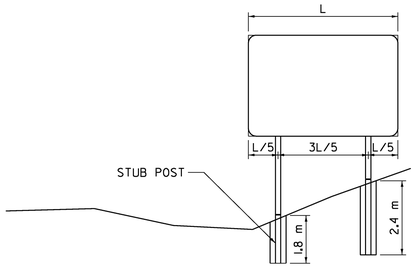
SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 560 kg/ha. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).

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

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 4500 kg/ha, OR AS DIRECTED BY THE ENGINEER.

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



W-SHAPE FOOTING DETAIL

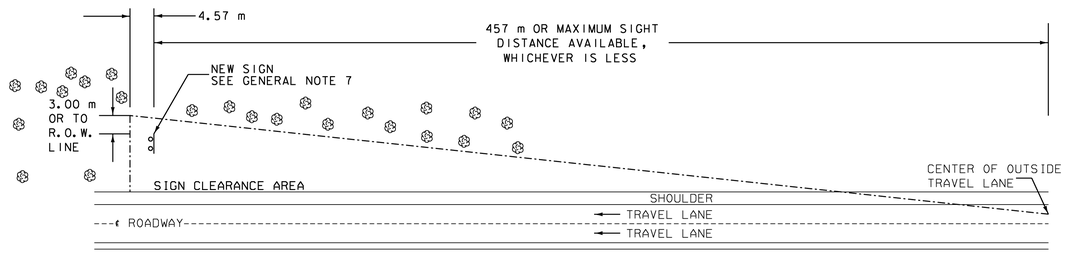
NOTES

1. THE LONGER CONCRETE FOOTINGS SHALL BE USED AT POST LOCATIONS ON STEEP SIDE SLOPES AS IDENTIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

2. FORMS/TUBES FOR THE LONGER CONCRETE FOOTINGS SHALL BE SMOOTH. CORRUGATED PIPE SHALL NOT BE USED.

3. REFER TO VTRANS STANDARD E-161 FOR ADDITIONAL NOTES AND DETAILS REGARDING CONCRETE FOOTINGS.

4. PAYMENT FOR THE LONGER CONCRETE FOOTINGS SHALL BE PAID FOR UNDER ITEM 675.41, "FOUNDATION FOR W-SHAPE STEEL POSTS, 600mm (MOD. - 2.4 m FOUNDATION)."



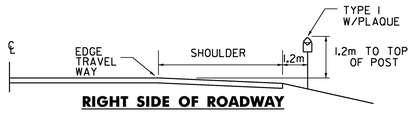
THE CONTRACTOR SHALL REMOVE ALL WOODY STEMMED GROWTH INCLUDING BRUSH, SAPLINGS, TREE LIMBS GROWING WITHIN OR PROJECTING INTO THE CLEARANCE AREA AND DOWN TO GROUND LEVEL OR AT LEAST 3.05 m BELOW THE BOTTOM OF THE SIGN, WHICH EVER IS LESS. PAYMENT WILL BE FOR ITEM 201.31 THINNING AND TRIMMING (FOR SIGNS) AND PAID FOR PER EACH SIGN ASSEMBLY LOCATION.

THINNING AND TRIMMING DETAIL (INTERSTATE)

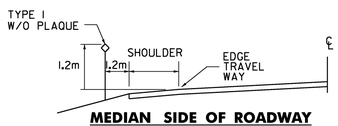
GENERAL NOTES & MISCELLANEOUS DETAILS

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

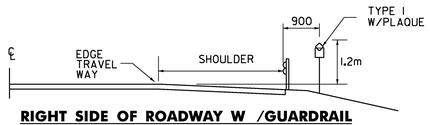
FILE NAME: 97194s-gennotes.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 3 OF 88



RIGHT SIDE OF ROADWAY



MEDIAN SIDE OF ROADWAY



RIGHT SIDE OF ROADWAY W /GUARDRAIL

TYPICAL PLACEMENT OF TYPE I DELINEATORS AND MILEPOSTS ON DIVIDED HIGHWAY

TYPE I DELINEATORS WITH WHITE REFLECTOR UNITS AND APPROPRIATE MILEPOST PLAQUES SHALL BE ERECTED CONTINUOUSLY ALONG THE RIGHT SIDE OF DIRECTION OF TRAVEL THE DIVIDED HIGHWAYS BETWEEN MILEMARKERS.

THE TYPE I DELINEATORS WITH OR WITHOUT MILEPOST PLAQUES SHALL BE OMITTED ALONG DECELERATION AND ACCELERATION LANES, BUT THE SUCCEEDING SPACING SHALL BE AS IF THE DELINEATORS HAD BEEN ERECTED CONTINUOUSLY AND SHALL BE SO INDICATED.

THE LOCATION OF TYPE I DELINEATORS AND MILEPOSTS ARE TO BE COMPUTED AND MARKED IN THE FIELD BY THE ENGINEER IN ACCORDANCE WITH THE LATEST REVISION OF THE AGENCY'S "POLICY ON LOCATION MARKING FOR VERMONT DIVIDED HIGHWAYS."

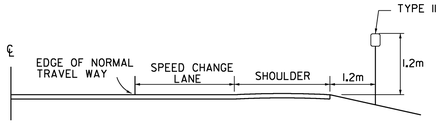
TYPE I YELLOW DELINEATORS WITHOUT MILEPOST PLAQUES SHALL BE ERECTED CONTINUOUSLY ALONG THE LEFT OR MEDIAN SIDE OF DIVIDED HIGHWAYS, CONTINUED AT APPROXIMATELY THE SAME SPACING THROUGH INTERCHANGES AND REST AREAS WHERE THERE MAY NOT BE ANY TYPE I DELINEATORS ON THE RIGHT SIDE. PLACEMENT OF TYPE I DELINEATORS SHALL BE FOLLOWED ON THE LEFT AS ON THE RIGHT. THE SAME LATERAL TYPE I DELINEATORS WITHOUT MILEPOST PLAQUE SHALL BE INSTALLED ON INTERSTATE RAMPS AS SHOWN ON THE PLANS.

TYPE I DELINEATORS USED AT U-TURNS SHALL BE PLACED WHERE THE RADII MEETS THE TANGENT OF THE MAINLINE.

TYPE III DELINEATORS

TYPE III DELINEATORS WILL BE TYPE I DELINEATORS WITH AN ADDITIONAL RED REFLECTIVE UNIT MOUNTED ON THE REVERSRE SIDE. THEY SHALL BE ERECTED ON THE RIGHT AND LEFT SIDE OF THE RAMPS AS SHOWN ON THE PLANS.

TYPE III DELINEATORS SHALL BEGIN 15.2 m FROM THE WRONG WAY SIGNS AND EXTEND EVERY 15.2 m TO A POINT NOT LESS THAN 7.6 m FROM THE DIVIDED HIGHWAY. SEE STANDARD E-197.

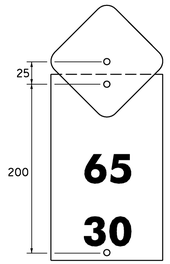


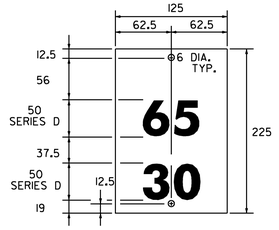
TYPICAL PLACEMENT OF TYPE II DELINEATORS ON SPEED CHANGE LANES

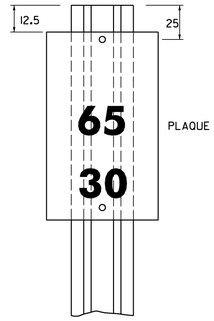
TYPE II DELINEATORS SHALL BE ERECTED CONTINUOUSLY ALONG THE RIGHT SIDE OF THE DECELERATION AND ACCELERATION LANES AT 30 m INTERVALS INCLUDING GUARDRAIL SECTIONS. THE DELINEATORS SHALL START AT THE BEGINNING OF THE TAPER AND END AT THE NOSE OF THE EXIT OR ENTRANCE GORE. THEY SHALL HAVE WHITE REFLECTOR UNITS.

NOTES

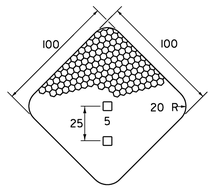
1. FOR MOUNTING DELINEATORS AND MILEPOSTS ON BRIDGES, SEE STANDARD E-199
2. MILEPOST PLAQUES WITH OR A WITHOUT REFLECTOR UNIT SHALL BE MOUNTED ON THE POST WITH TWO OR THREE 5 mm DIA. BY 37.5 mm LONG ALUMINUM BOLTS WITH 12.5 mm DIA. ALUMINUM VANDAL RESISTANT NUTS, OR 5 mm DIA. BY 37.5 mm LONG VANDAL RESISTANT FASTENERS.
3. DELINEATOR POSTS SHALL BE 3 kg/m FLANGE CHANNEL A MINIMUM OF 2.4 METERS LONG.
4. DELINEATOR POSTS SHALL HAVE A MINIMUM EMBEDMENT OF 750 mm IN THE GROUND.
5. WHEN USING DELINEATORS AND MILEPOSTS ON STEEP SLOPES (ON 2 OR STEEPER) OR ERODED SOILS ADD 300 mm FOR GREATER STABILITY.





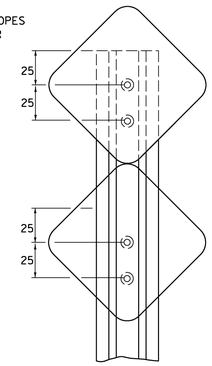


MILEPOST PLAQUE

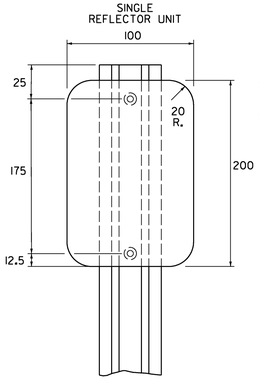


DELINEATOR REFLECTIVE SHEETING UNIT

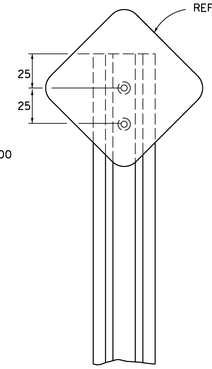
MATERIAL FOR RETROREFLECTIVE SHEETING FOR DELINEATORS SHALL BE A 1.60-mm ALUMINUM BACKING WITH A WHITE ASTM TYPE III, OR RED/YELLOW SHALL BE TYPE VII, TYPE VIII OR TYPE IX.



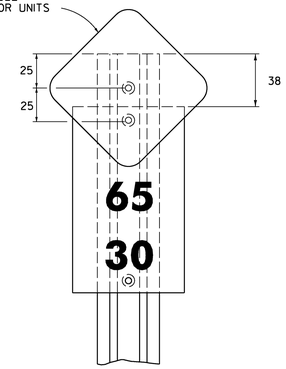
TYPE I AT U TURNS



TYPE II



TYPE I WITHOUT PLAQUE



TYPE I WITH PLAQUE

DELINEATORS WITH REFLECTIVE SHEETING

DELINEATOR AND MILEPOST DETAILS

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-gennotes.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/15/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 4 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET

Metric

SUMMARY OF ESTIMATED QUANTITIES			TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
ROADWAY	EROSION CONTROL	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
7			7		EACH	THINNING AND TRIMMING (FOR SIGNS)	201.31	-			
22			22		CM	EARTH BORROW	203.30	-			
						BEGIN OPTION AA					
10			10		M	300 mm CAAP 1.52 mm (68 mm X 12 mm)	601.0205	-			
10			10		M	300 mm PCCSP 1.63 mm (68 mm X 12 mm)	601.0405	-			
10			10		M	300 mm RCP CLASS III	601.0805	-			
10			10		M	300 mm CPEP	601.0905	-			
						END OPTION AA					
4			4		EACH	YIELDING MARKER POSTS	619.17	-			
190			190		M	STEEL BEAM GUARD RAIL (GALVANIZED)	621.20	7.6			
2			2		EACH	MANUFACTURED TERMINAL SECTION (FLARED)	621.505	-			
2			2		EACH	ANCHOR FOR STEEL BEAM RAIL	621.60	-			
875			875		HR	UNIFORMED TRAFFIC OFFICERS	630.10	8			
175			175		HR	FLAGGERS	630.15	2			
		1	1		LS	FIELD OFFICE-ENGINEERS	631.10	-			
		1	1		LS	TESTING EQUIPMENT - CONCRETE	631.16	-			
		1	1		LU	FIELD OFFICE - TELEPHONE (N.A.B.I.)	631.25	-			
1			1		LS	MOBILIZATION / DEMOBILIZATION	635.11	-			
1			1		LS	TRAFFIC CONTROL	641.10	-			
4			4		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	EST			
2			2		EACH	PORTABLE ARROW BOARD	641.16	EST			
	4		4		KG	SEED	651.15	.4			
	29		29		KG	FERTILIZER	651.18	.4			
	.5		.5		T	AGRICULTURAL LIMESTONE	651.20	.3			
	.5		.5		T	HAYMULCH	651.25	.3			
26			26		CM	TOPSOIL	651.35	.5			
255			255		SM	TRAFFIC SIGNS, TYPE A	675.20	.34			
336			336		SM	TRAFFIC SIGNS, TYPE B	675.21	.27			
						BEGIN OPTION BB					
1348			1348		M	FLANGED CHANNEL SIGN POST	675.301	-			
1348			1348		M	SQUARE TUBE SIGN POSTS AND ANCHOR	675.341	-			
						END OPTION BB					
5481			5481		KG	W-SHAPE STEEL SIGN POSTS	675.31	-			
350			350		KG	TUBULAR ALUMINUM SIGN POSTS	675.32	.1			
5915			5915		KG	TUBULAR STEEL SIGN POSTS	675.33	.1			
23			23		EACH	FOUNDATION FOR W-SHAPE STEEL POSTS, 600 MM DIAMETER	675.41	-			
9			9		EACH	FOUNDATION FOR W-SHAPE STEEL POSTS, 600 MM DIAMETER (MOD.-2.4m FOUND.)	675.41	-			
121			121		EACH	FOUNDATION FOR TUBULAR STEEL POSTS	675.43	-			
471			471		EACH	REMOVING SIGNS (TYPE A)	675.50	-			
39			39		EACH	REMOVING SIGNS (TYPE B)	675.50	-			

PROJECT NAME: **RYEGATE-ST. JOHNSBURY**
PROJECT NUMBER: **IM 091-2(73)**

FILE NAME: **qssRyegate.xls**
PROJECT MANAGER: **CRB**
DESIGNED BY: **DAM**
QUANTITY SHEET #1

PLOT DATE: **12/12/2006**
DRAWN BY: **PTS**
CHECKED BY: **PTS**
SHEET **5** OF **88**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET

Metric

SUMMARY OF ESTIMATED QUANTITIES			TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
ROADWAY	EROSION CONTROL	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
2			2		EACH	ERECTING SALVAGED SIGNS	675.60	-			
2010			2010		EACH	DELINEATORS W/STEEL POSTS	676.10	7			
1800			1800		EACH	REMOVAL OF EXIST DELINEATORS	676.12	8			
2			2		EACH	OVERHEAD TRAFFIC SIGN SUPPORT, CANTILEVER	677.12	-			
1			1		EACH	OVERHEAD TRAFFIC SIGN SUPPORT, MULTI-SUPPORT	677.13	-			

PROJECT NAME: **RYEGATE-ST. JOHNSBURY**
PROJECT NUMBER: IM 091-2(73)

FILE NAME: **qssRyegate.xls**
PROJECT MANAGER: **CRB**
DESIGNED BY: **DAM**
QUANTITY SHEET #2

PLOT DATE: **12/12/2006**
DRAWN BY: **PTS**
CHECKED BY: **PTS**
SHEET **6** OF **88**

STATE OF VERMONT
AGENCY OF TRANSPORTATION

ITEM DETAIL SUMMARY SHEET

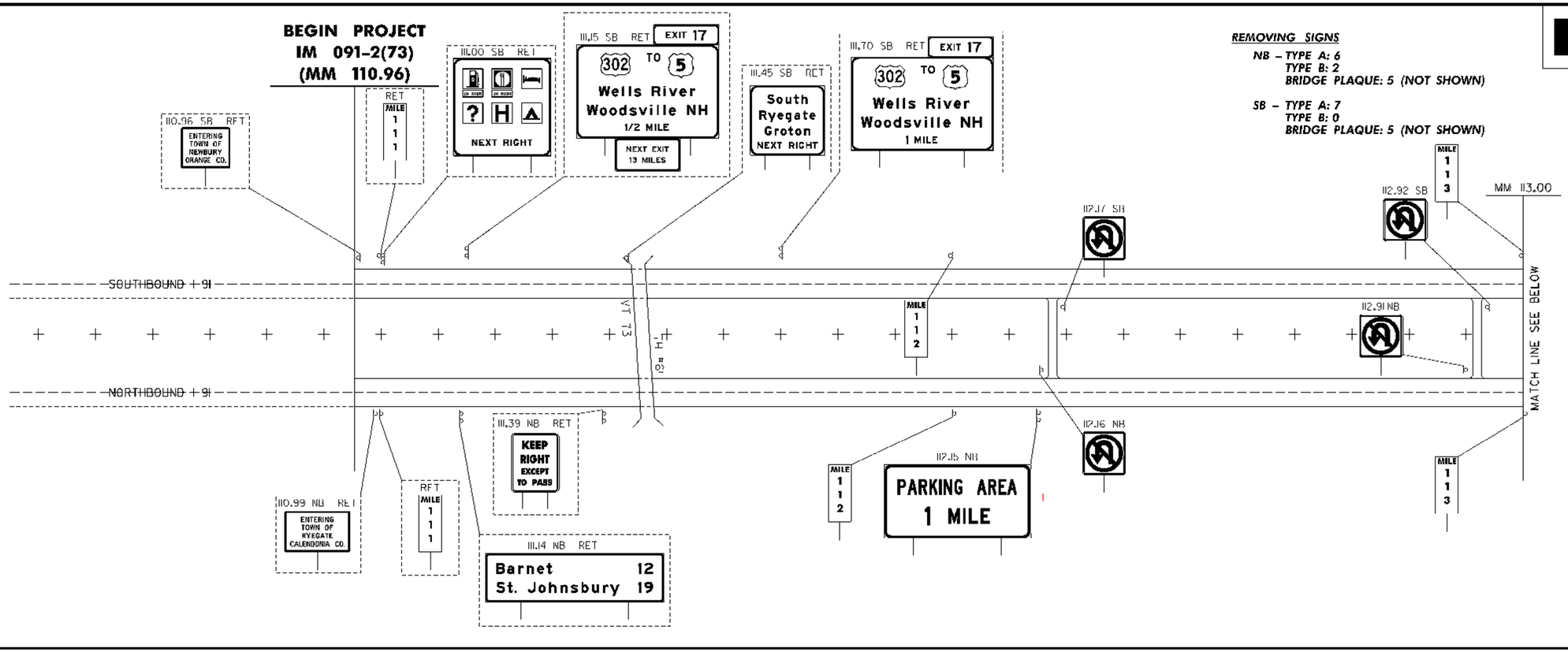
Metric

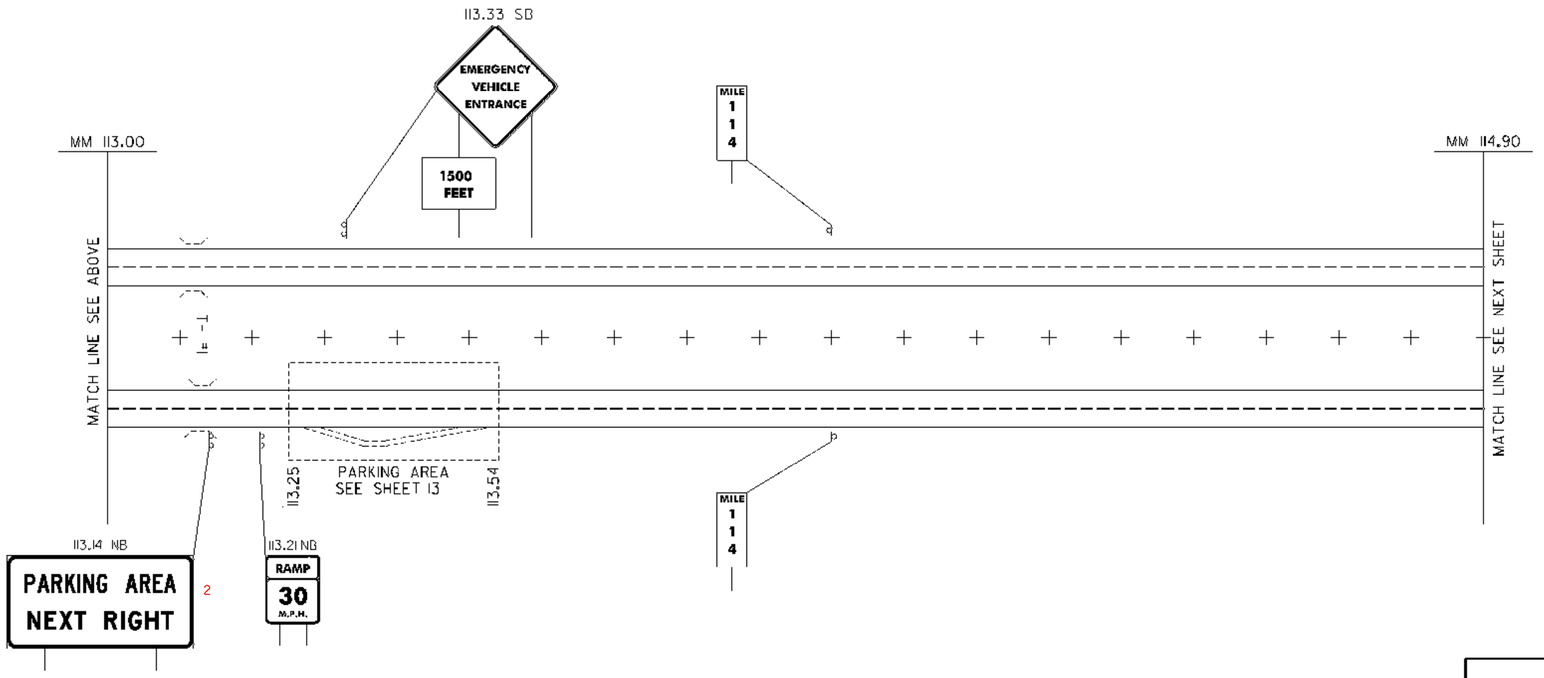
			EXISTING GUARDRAIL (m)		GUARDRAIL ITEMS (m)							GUARDRAIL ITEMS (EA)					PIPE		AVAILABLE OPTIONS								REMARKS
MP	MM	POS	STEEL BEAM GUARDRAIL (GALVANIZED)	CABLE	STEEL BEAM GR. MOD. (2.4 m POST)	REMOVE & RESET	ADJUST GUARDRAIL HEIGHT	REMOVE AND DISPOSE	REM. ALUM. APPROACH RAIL	NEW ALUM. APPROACH RAIL	W75 (LAMLD)	ANCHOR FOR STEEL	REPLACE GUARDRAIL POST ASSEMBLY	REPLACE GUARDRAIL ALUMINUM	REMOVAL OF GUIDEPOST	D (mm)	t (m)	PCCSP (mm)	CMP (mm)	RCP CL	CPEP SL	COMMON EXCAVATION (m3)	EARTH BORROW (m3)	SUBBASE OF D.G.C.S. (m3)	AGGREGATE SHOULDERS (ton)	TOPSOIL (m3)	
					621.20	621.20	621.75	621.79	621.80	621.80	621.74	621.505	621.60	621.76	621.77	621.01							203.15	203.30	301.35	401.12		
NORTHBOUND																												
127.59	127.64	OUT			~~83.6~~ 84.43							1	1											11.0				
127.93	127.99	OUT			~~98.8~~ 99.67							1	1											11.0				
127.59																	300	5	1.63	1.52	III	X						
127.93																	300	5	1.63	1.52	III	X						
SUBTOTAL:					182.4							2	2											22.0				
ROUNDING:					7.6							0	0											0.0				
PROJECT TOTALS:					190.0							2	2				300	10.0	1.63	1.52	III	X		22.0				

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: gridsBamet.xls
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194

PLOT DATE: 10/17/06
DRAWN BY: DAM
CHECKED BY: JAW
SHEET 7 OF 88





LEGEND

RET – RETAINED

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

EXISTING SIGNS

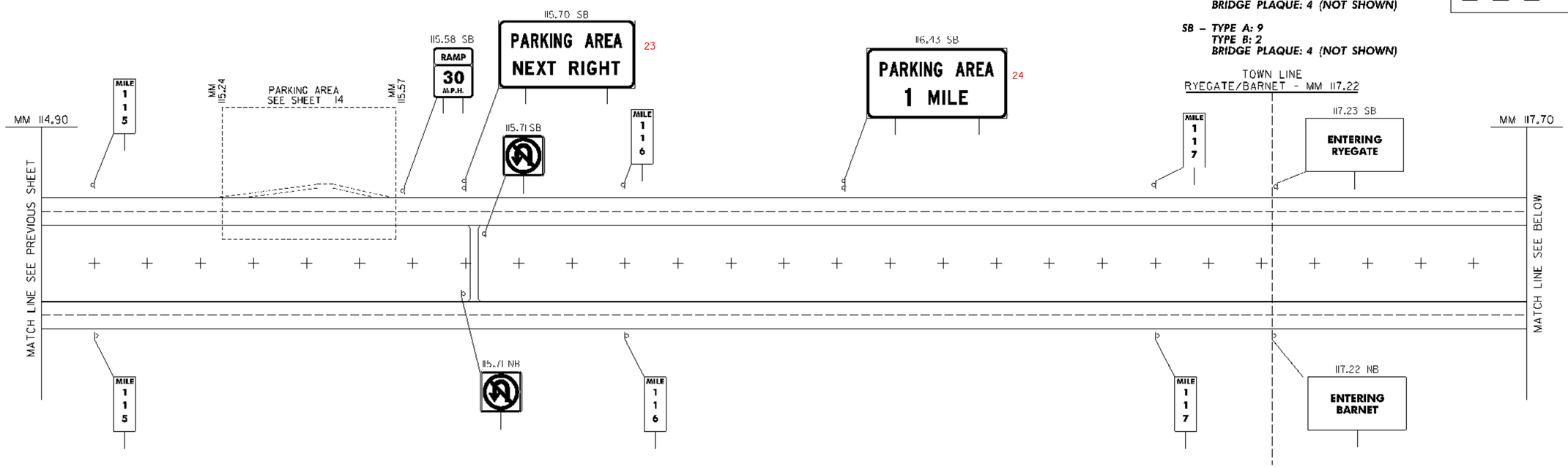
PROJECT NAME:	RYEGATE-ST. JOHNSBURY
PROJECT NUMBER:	IM 091-2(73)
FILE NAME: 97194s-mi.dgn	PLOT DATE: 12/13/2006
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: DAM	CHECKED BY: DAM
CLD REF. NO.: 97-0194	SHEET 8 OF 88

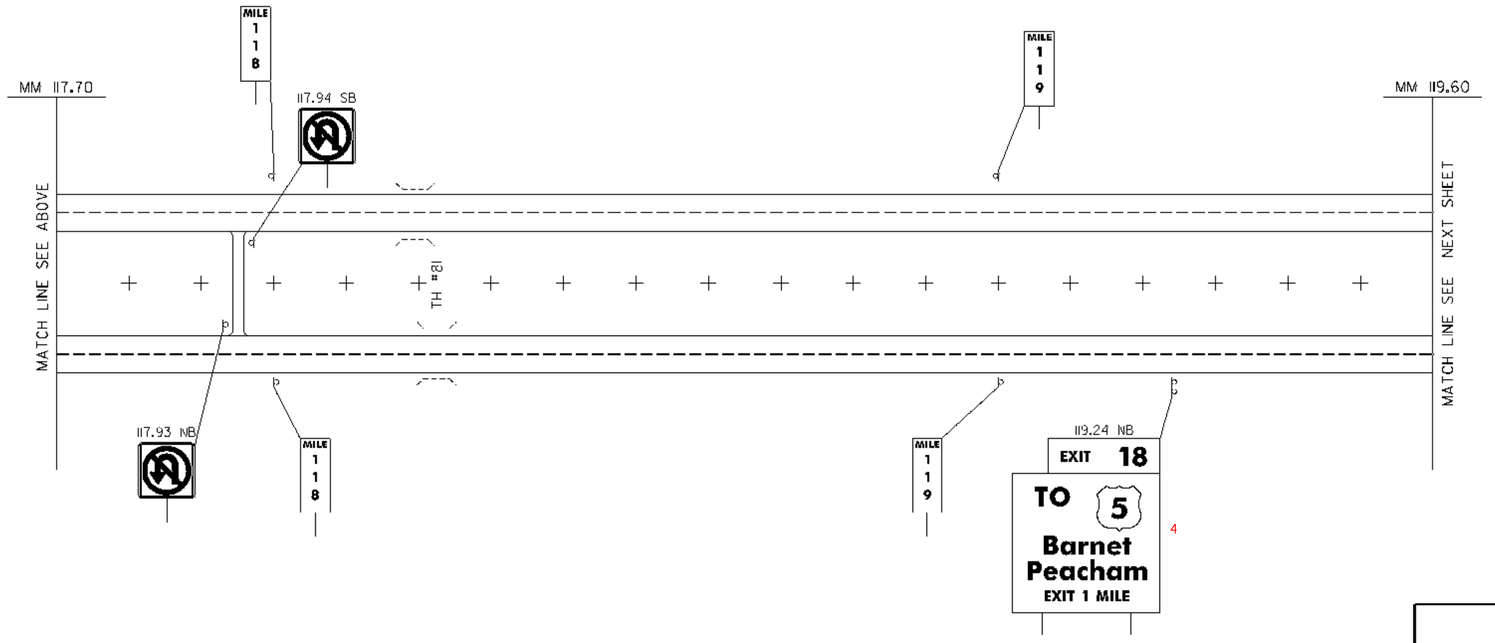
REMOVING SIGNS

NB – TYPE A: 9
TYPE B: 1
BRIDGE PLAQUE: 4 (NOT SHOWN)

SB – TYPE A: 9
TYPE B: 2
BRIDGE PLAQUE: 4 (NOT SHOWN)

Metric





ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

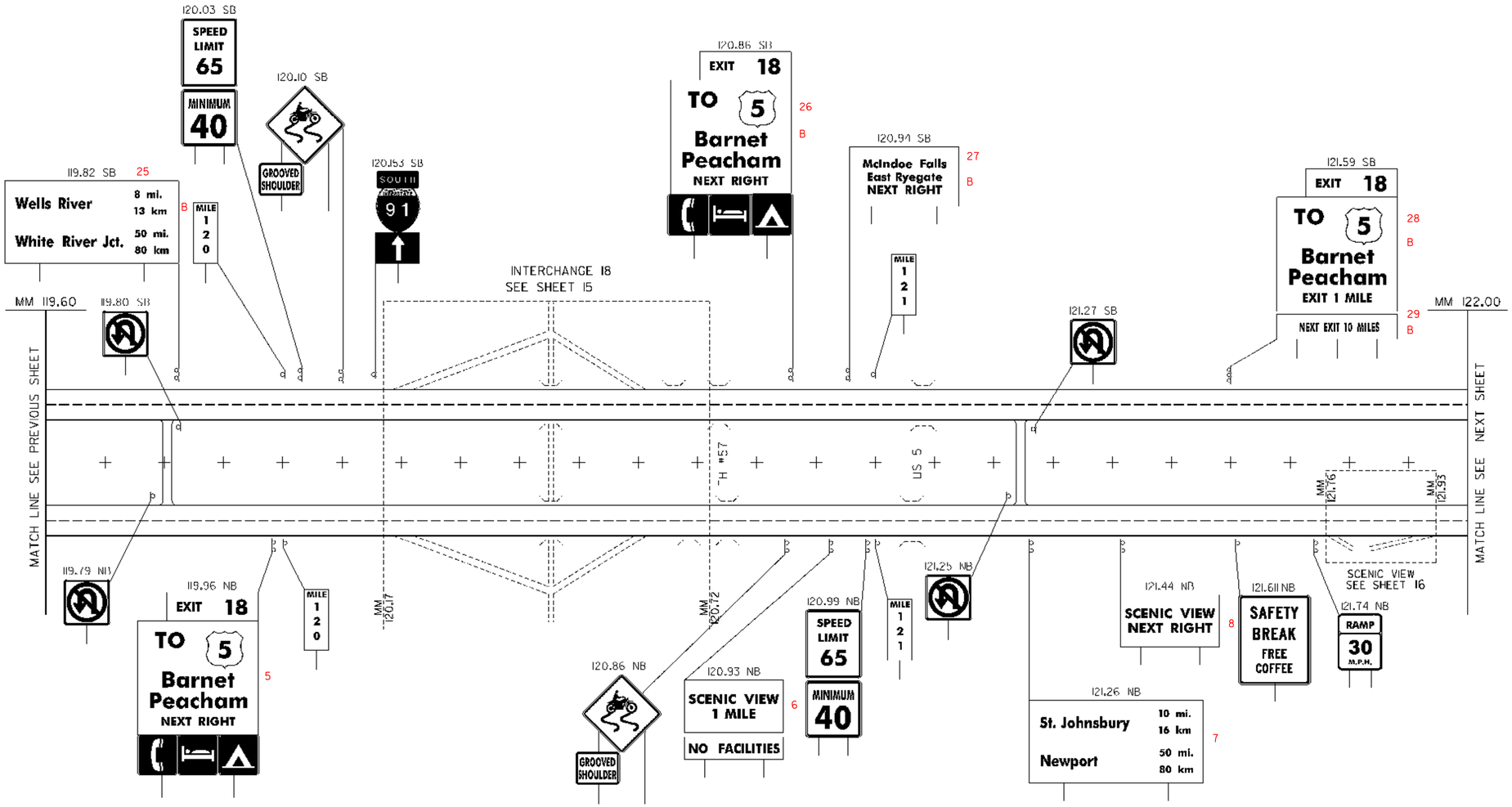
EXISTING SIGNS

PROJECT NAME:	RYEGATE-ST. JOHNSBURY
PROJECT NUMBER:	IM 091-2(73)
FILE NAME: 97194s-mi.dgn	PLOT DATE: 12/13/2006
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: DAM	CHECKED BY: DAM
CLD REF. NO.: 97-0194	SHEET 9 OF 88

REMOVING SIGNS

NB – TYPE A: 15
TYPE B: 4
BRIDGE PLAQUE: 2 (NOT SHOWN)

SB – TYPE A: 17
TYPE B: ~~4~~ 5
BRIDGE PLAQUE: 2 (NOT SHOWN)



ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

EXISTING SIGNS

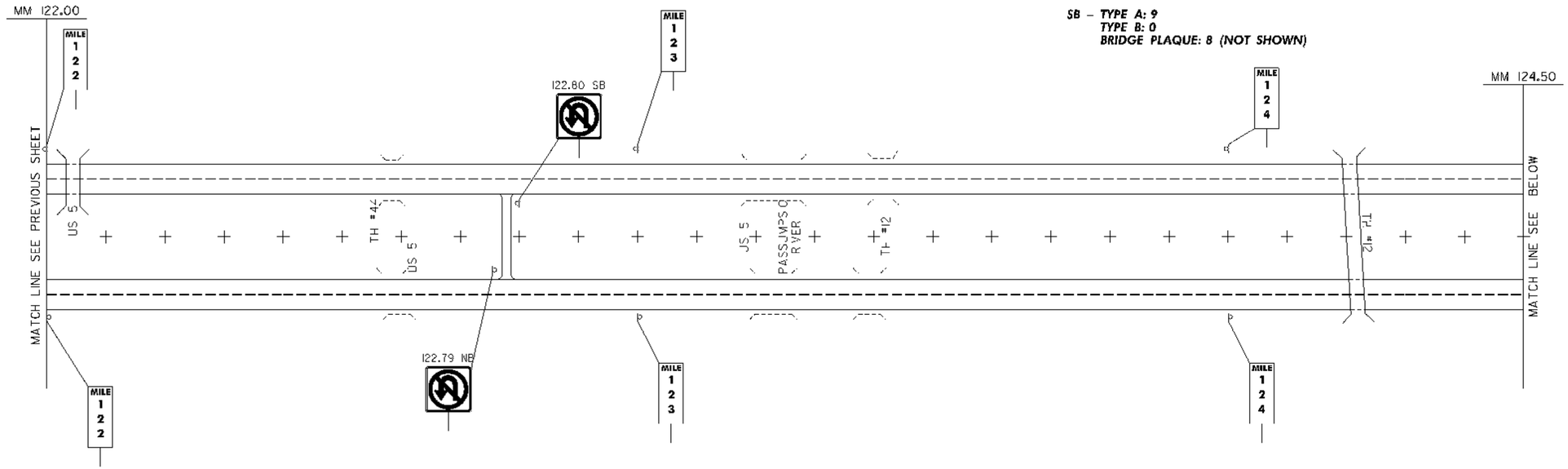
PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

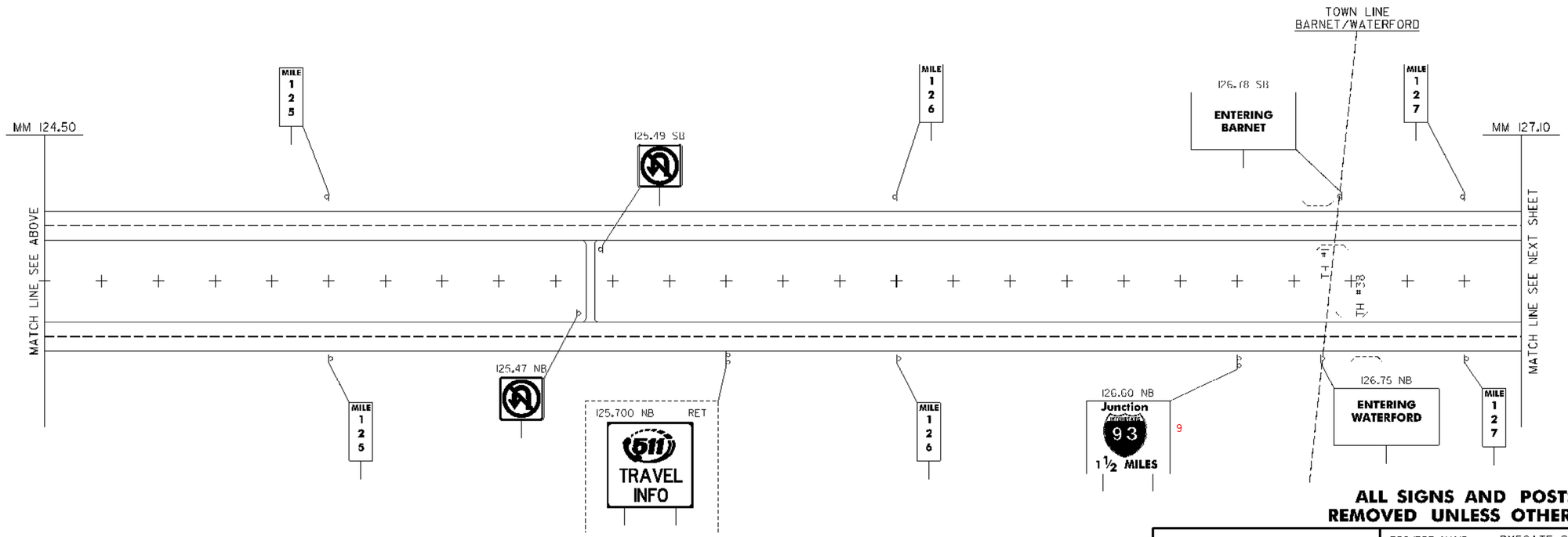
FILE NAME: 97194s-mi.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 10 OF 88

REMOVING SIGNS

NB – TYPE A: 9
TYPE B: 1
BRIDGE PLAQUE: 7 (NOT SHOWN)

SB – TYPE A: 9
TYPE B: 0
BRIDGE PLAQUE: 8 (NOT SHOWN)





ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

EXISTING SIGNS

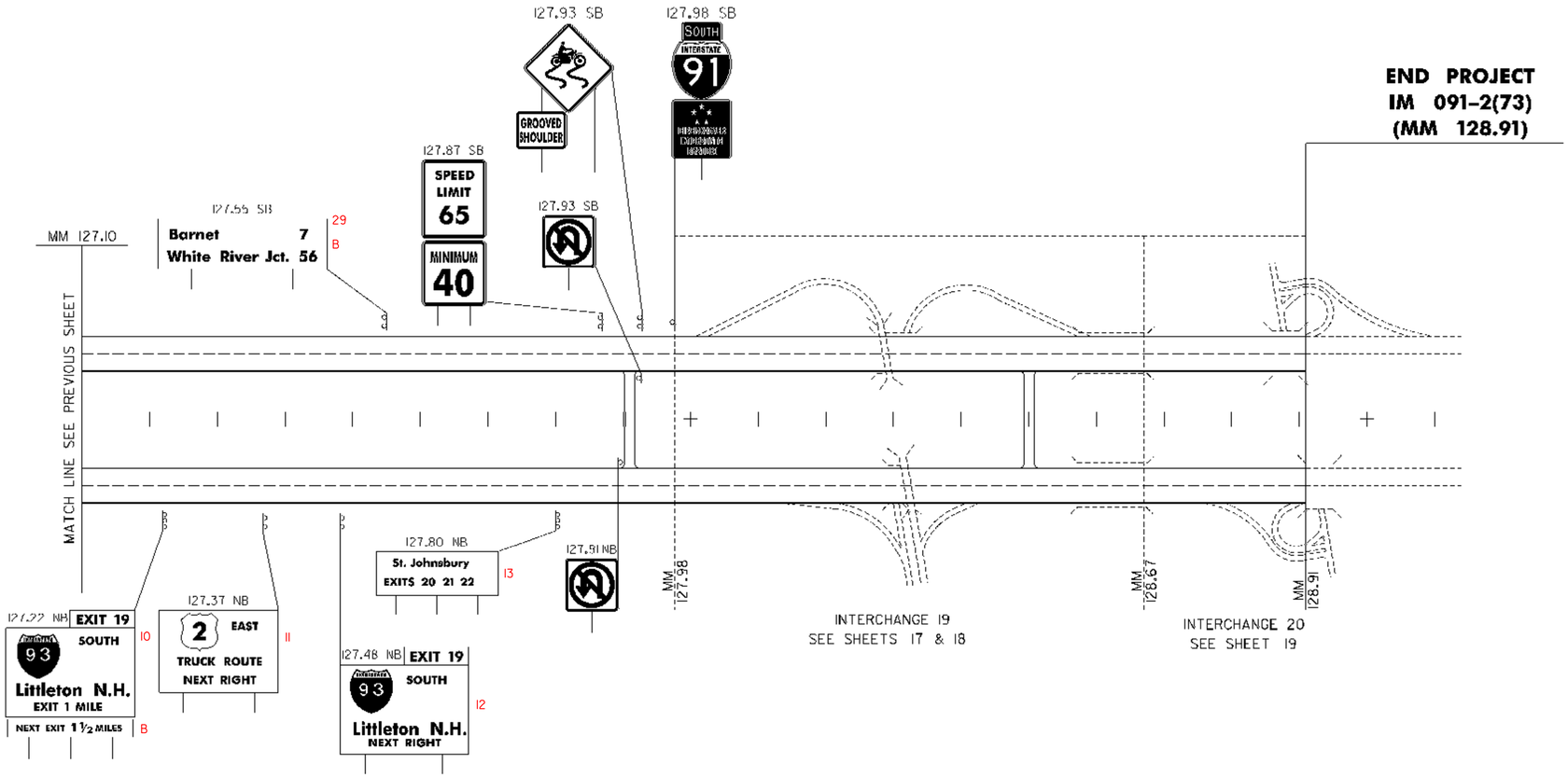
PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-mi.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 11 OF 88

REMOVING SIGNS

NB – TYPE A: 3
TYPE B: 5

SB – TYPE A: 8
TYPE B: 1

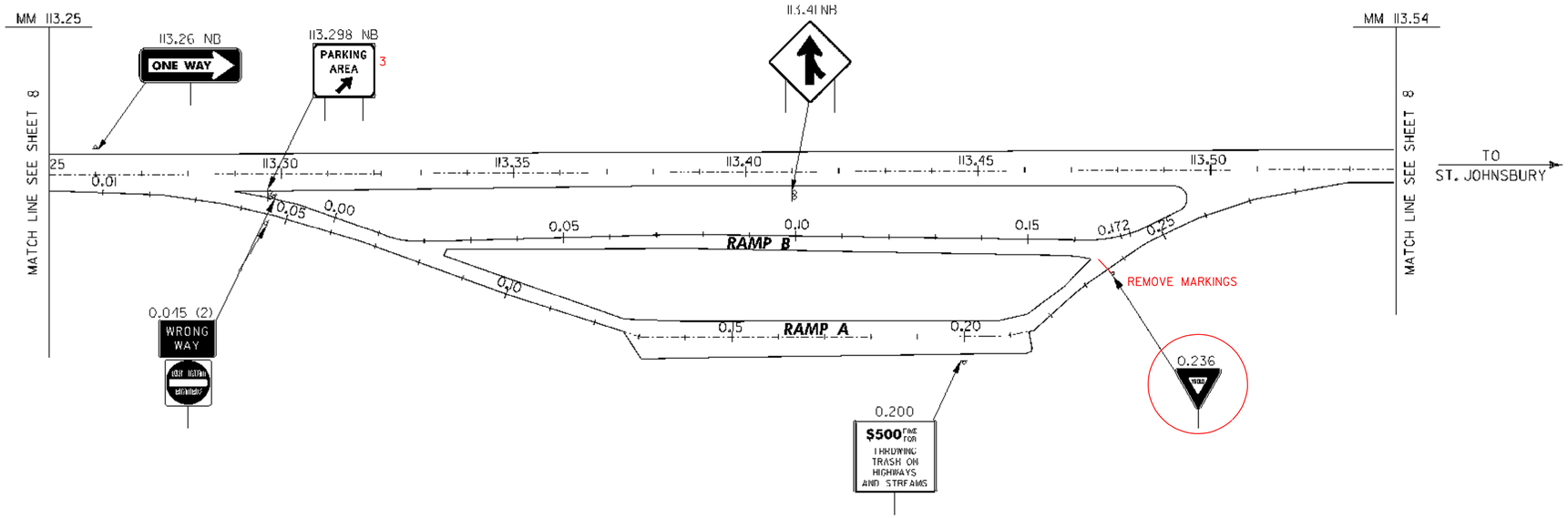


ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

EXISTING SIGNS

PROJECT NAME:	RYEGATE-ST. JOHNSBURY
PROJECT NUMBER:	IM 091-2(73)
FILE NAME: 97194s-mi.dgn	PLOT DATE: 12/13/2006
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: DAM	CHECKED BY: DAM
CLD REF. NO.: 97-0194	SHEET 12 OF 88

REMOVING SIGNS
TYPE A: 8
TYPE B: 1



LEGEND

[ ] ***RET – RETAINED***

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

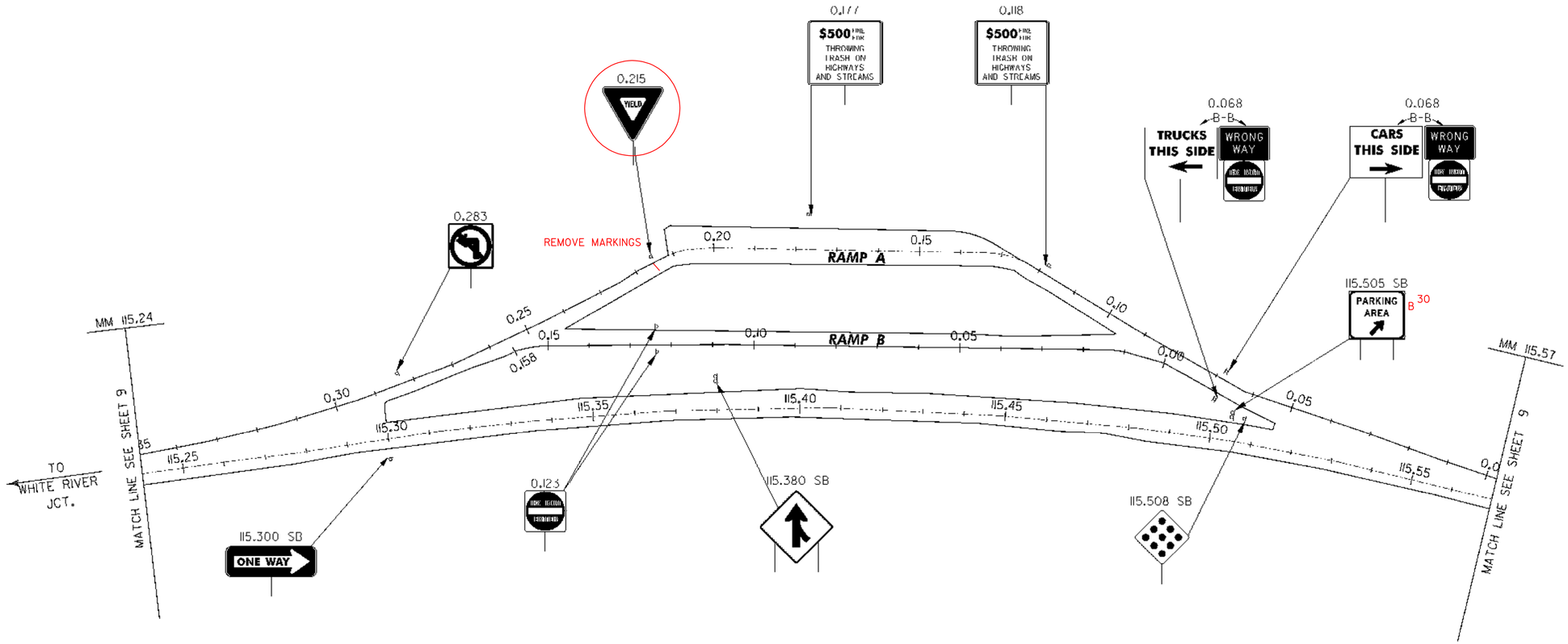
PARKING AREA 113.39 I-91 NB EXISTING SIGNS

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-ro.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 13 OF 88

Metric

REMOVING SIGNS
TYPE A: 15
TYPE B: 1



LEGEND

RET – RETAINED

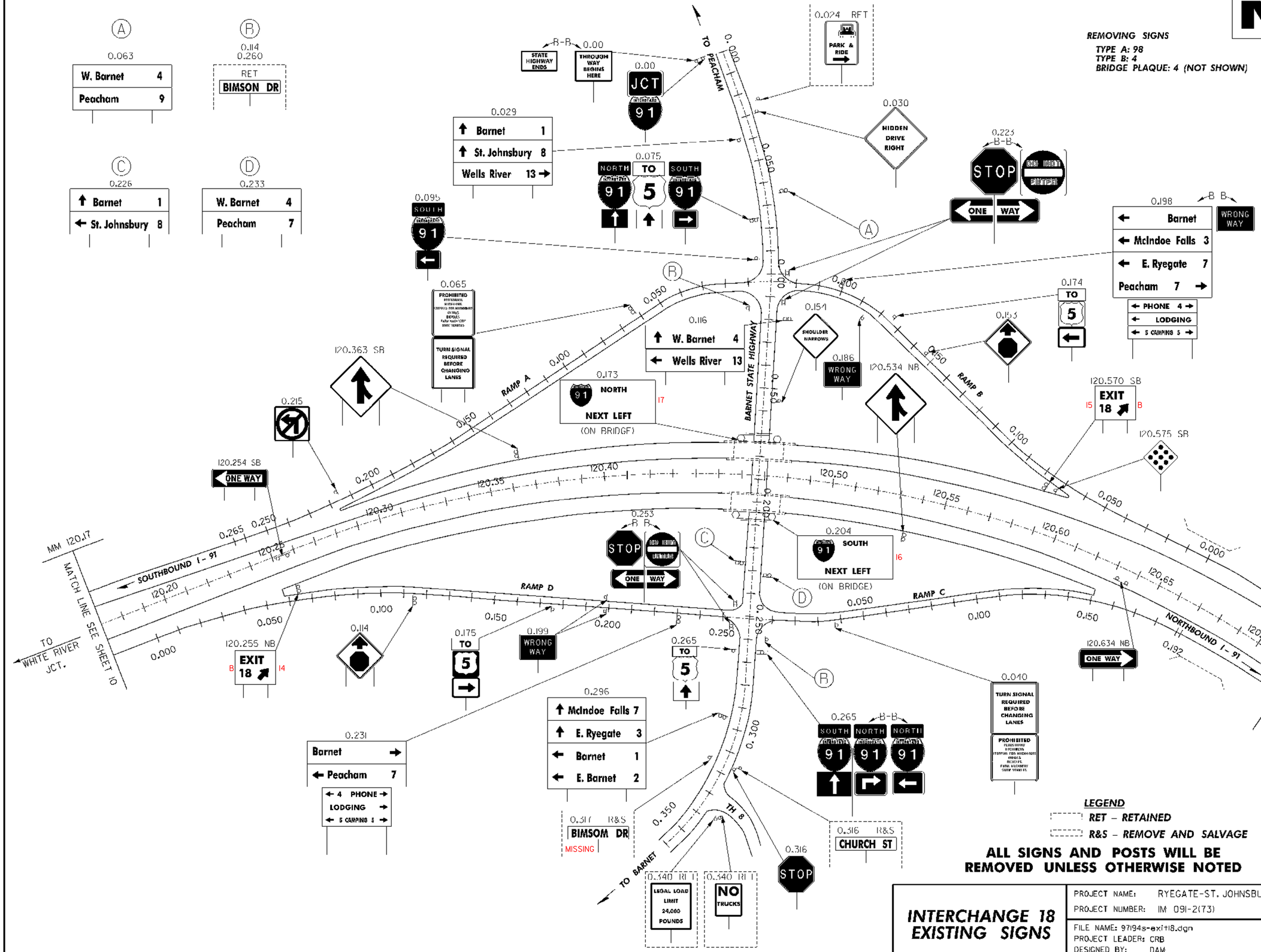
ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

PARKING AREA 115.40 I-91 SB EXISTING SIGNS

PROJECT NAME:	RYEGATE-ST. JOHNSBURY
PROJECT NUMBER:	IM 091-2(73)
FILE NAME: 97194s-ra.dgn	PLOT DATE: 12/13/2006
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: DAM	CHECKED BY: DAM
CLD REF. NO.: 97-0194	SHEET 14 OF 88

Metric

REMOVING SIGNS
TYPE A: 98
TYPE B: 4
BRIDGE PLAQUE: 4 (NOT SHOWN)



LEGEND
RET – RETAINED
R&S – REMOVE AND SALVAGE

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

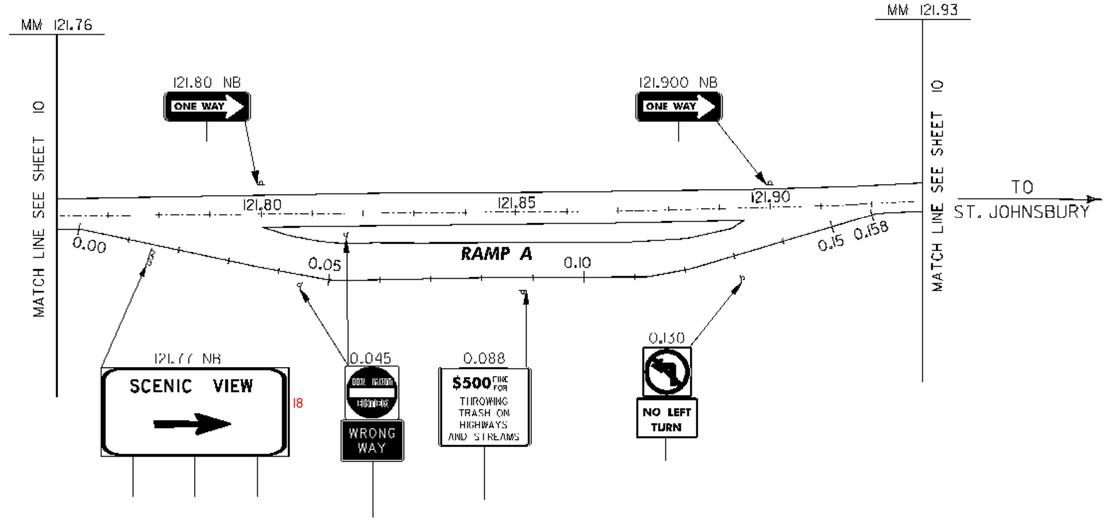
INTERCHANGE 18 EXISTING SIGNS

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-exit18.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 15 OF 88

REMOVING SIGNS

TYPE A: 9
TYPE B: 1



LEGEND

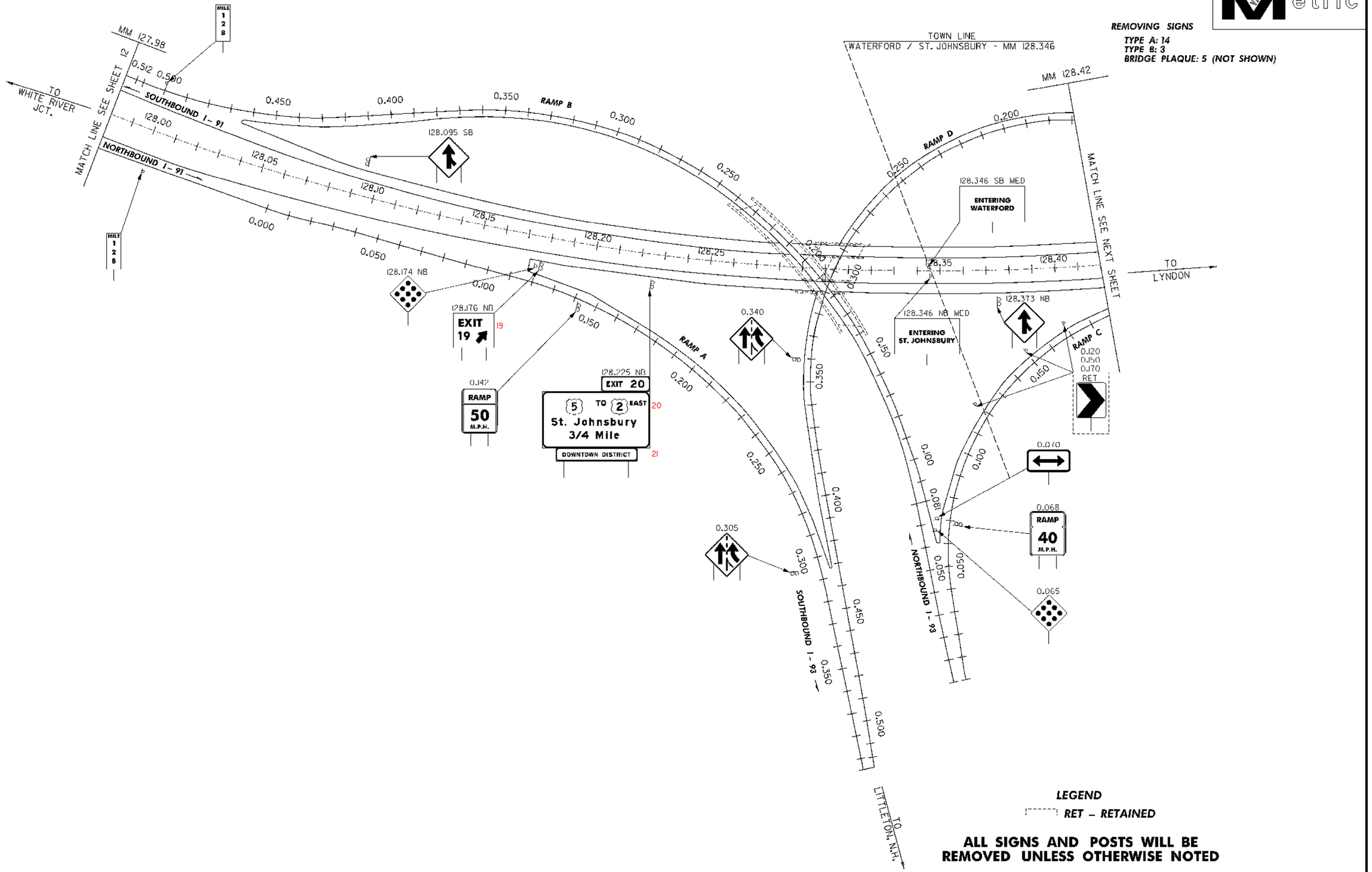
RET – RETAINED

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

SCENIC VIEW 121.83 I-91 NB EXISTING SIGNS

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-ra.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 16 OF 88



REMOVING SIGNS

TYPE A: 14
TYPE B: 3
BRIDGE PLAQUE: 5 (NOT SHOWN)

LEGEND

RET – RETAINED

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

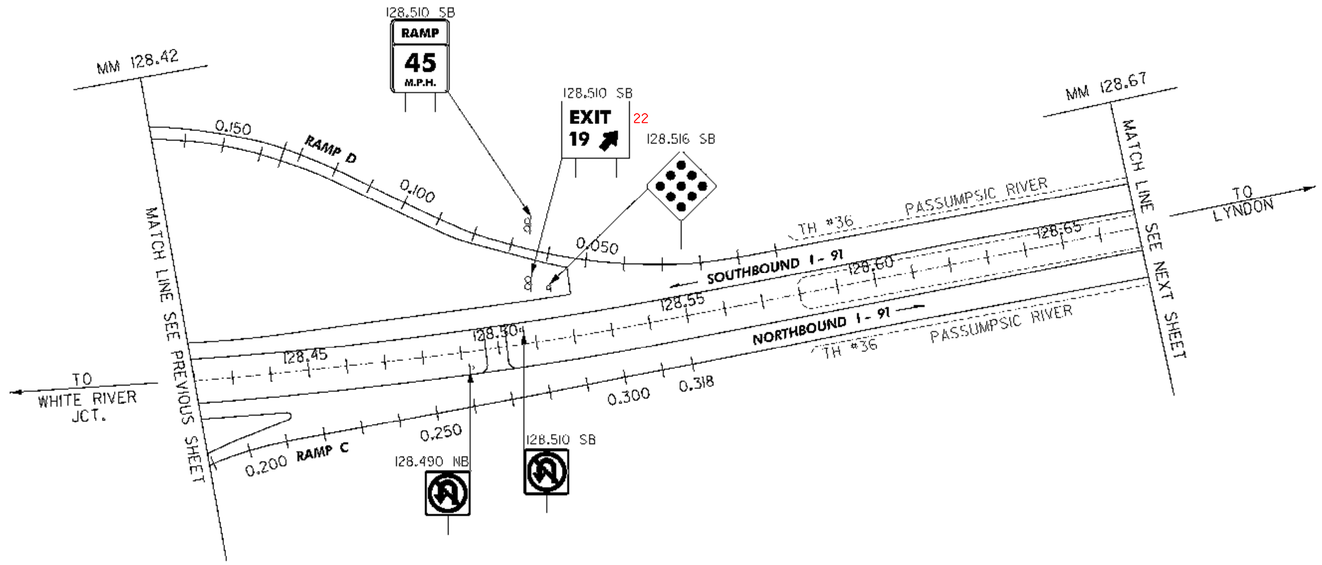
INTERCHANGE 19 EXISTING SIGNS

PROJECT NAME:	RYEGATE-ST. JOHNSBURY
PROJECT NUMBER:	IM 091-2(73)
FILE NAME: 97194s-exit19.dgn	PLOT DATE: 12/13/2006
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: DAM	CHECKED BY: DAM
CLD REF. NO.: 97-0194	SHEET 17 OF 88

Metric

REMOVING SIGNS

TYPE A: 4
TYPE B: 1
BRIDGE PLAQUE: 1 (NOT SHOWN)



LEGEND

RET – *RETAINED*

ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

INTERCHANGE 19 EXISTING SIGNS

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-exit19.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 18 OF 88

0.503 0.635 0.648 0.817 0.825
A
B B
0.503 RET
SPEED LIMIT 50
0.307
← 1 St. Johnsbury
Passumpsic 2 →
Barnet 8 →
NORTH 5 ←
SOUTH 5 →
0.269
← 1 SERVICES
← 1 GAS/DIESEL 24 Hrs
LODGING ↑
← 4 CAMPING
STATE POLICE →
0.542
Passumpsic 2
Barnet 8
0.531
↑ St. Johnsbury 1
← Barnet 10
← White River Jct 62
0.580
B SOUTH 5 ↑
0.610
C ONLY
D TRUCK ROUTE
0.570
EAST 2 ←
TO 93 ←
NORTH 5 ↑
SOUTH 91 ←
NORTH 91 ↑
0.283 WRONG WAY
0.279
0.221
0.617
0.320 B-B
STOP
ONE WAY
0.072
0.023
0.667
0.250
0.653
E TO 93 ←
SOUTH 91 ←
0.675
F ↑ St. Johnsbury 1
Lyndonville 10 →
Newport 45 →
0.693
G SOUTH 5 ↑
SOUTH 91 →
TO 93 →
0.770
H NORTH 5
TO 2 ↑
NORTH 91 →
TRUCK ROUTE WEST 2 →
0.810
I NORTH 91 ←
0.789
J Passumpsic 2 ↑
Barnet 10 →
White River Jct 62 →
0.821
K SOUTH 5 ←
0.212
L St. Johnsbury 1
2 Passumpsic
SERVICES
STATE POLICE
SOUTH 5
NORTH 5
END PROJECT
IM 091-2(73)
(MM 128.91)
MM 128.67
MATCH LINE SEE PREVIOUS SHEET
TO WHITE RIVER JCT.
SOUTHBOUND I-91
NORTHBOUND I-91
TO LYNDON
128.70 128.75 128.80 128.85 128.90 128.95 129.00 129.05 129.10 129.15
RAMP A RAMP B RAMP C RAMP D RAMP E RAMP F RAMP G
PASSUMPSIC ROUTE 5
ST. JOHNSBURY ROUTE 5
0.000
128.796
128.850
128.80
EXIT 20
128.960 SB
ONE WAY
0.235
0.252
0.798
0.050
0.072 B-B
STOP
ONE WAY
M TRUCK ROUTE WEST 2 ←
0.898
SOUTH 5 ↑
SOUTH 91 ↑
NORTH 91 ←
TO 93 ↑
N 0.977 RET
↑ St. Johnsbury 1
← Danville 9
O 0.959
REDUCED SPEED AHEAD
P 0.858
ONLY
Q 0.330 RAMP D 0.072 RAMP E B-B
STOP
R 128.81 SB
2 EAST
TRUCK ROUTE NEXT RIGHT
S 128.86 SB EXIT 19
93 SOUTH
Littleton N.H.
NEXT RIGHT
T 128.70 SB
91 SOUTH
White River Jct.
REMOVE
EXIT 19
93 SOUTH
Littleton N.H.
0.052
WRONG WAY
0.872
LEFT LANE MUST TURN LEFT
0.929
↑ Passumpsic 2
← Lyndonville 10
← Newport 45
0.280 B-B
0.921
NORTH 5
0.966
JCT 91
0.147
SERVICES 1
GAS/DIESEL 24 Hrs 1
← LODGING
CAMPING 4
INFORMATION 1
← STATE POLICE
U 128.70 NB
EXIT 20
5 TO 2 EAST
St. Johnsbury
V 128.72 NB
2 WEST
TRUCK ROUTE
W 0.700
14'-0"

REMOVING SIGNS

TYPE A: 181
TYPE B: 9
BRIDGE PLAQUE: 3 (NOT SHOWN)

VAOT Metric

LEGEND

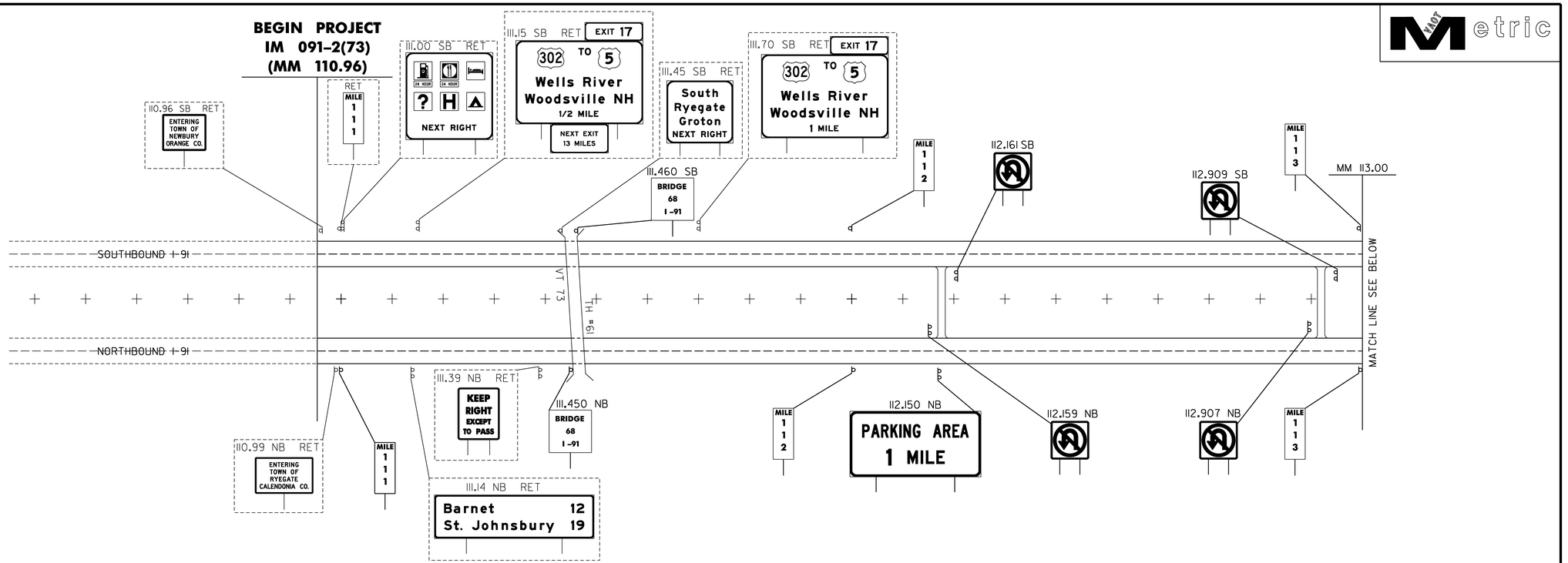
RET - RETAINED

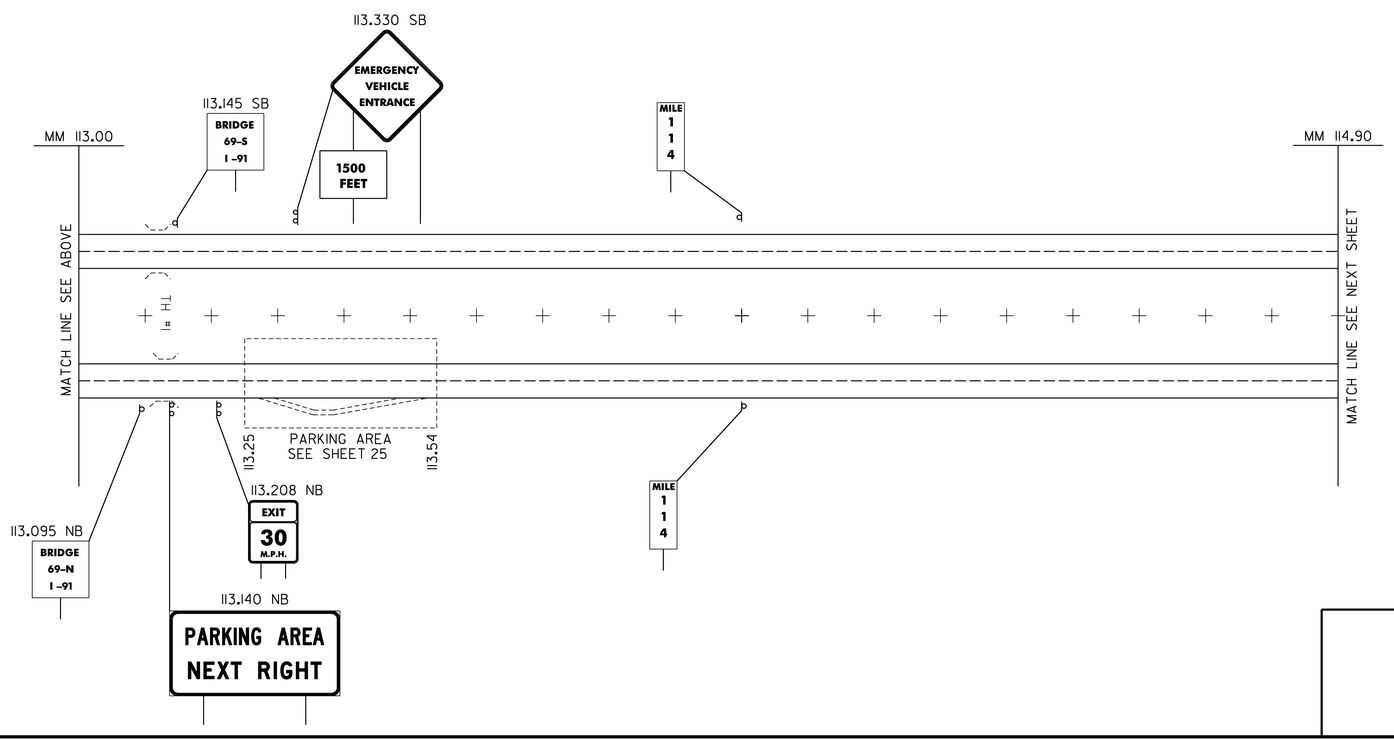
ALL SIGNS AND POSTS WILL BE REMOVED UNLESS OTHERWISE NOTED

INTERCHANGE 20 EXISTING SIGNS

PROJECT NAME:	RYEGATE-ST. JOHNSBURY
PROJECT NUMBER:	IM 091-2(73)

FILE NAME:	97194s-ex1t20.dgn	PLOT DATE:	12/13/2006
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	DAM	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	19 OF 88





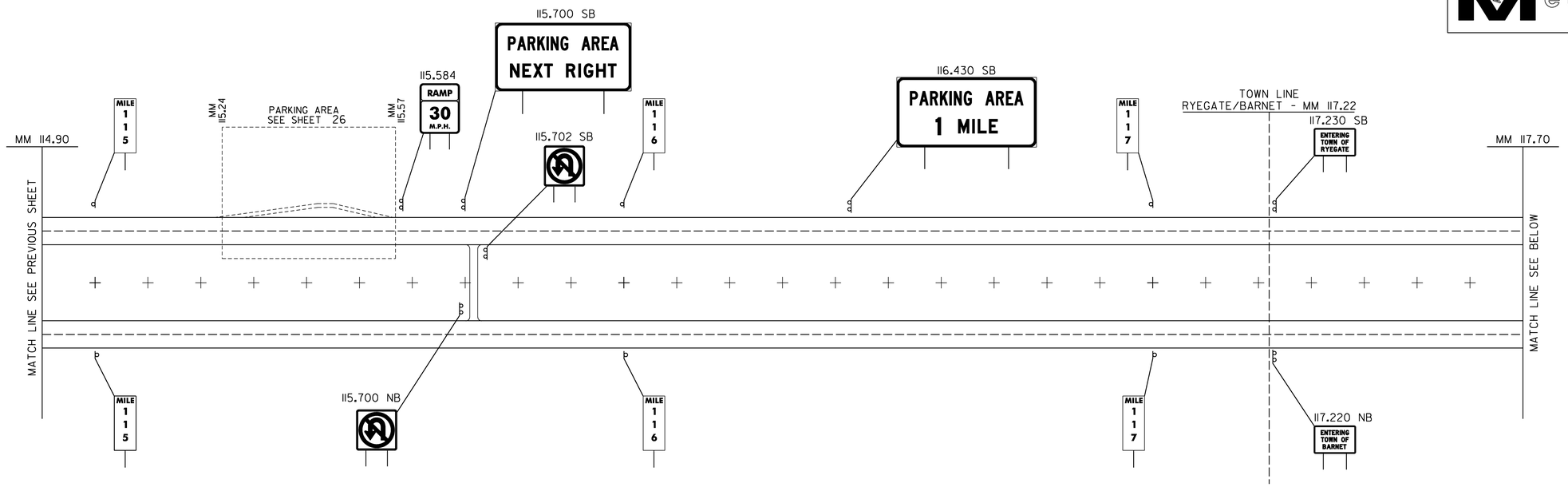
LEGEND

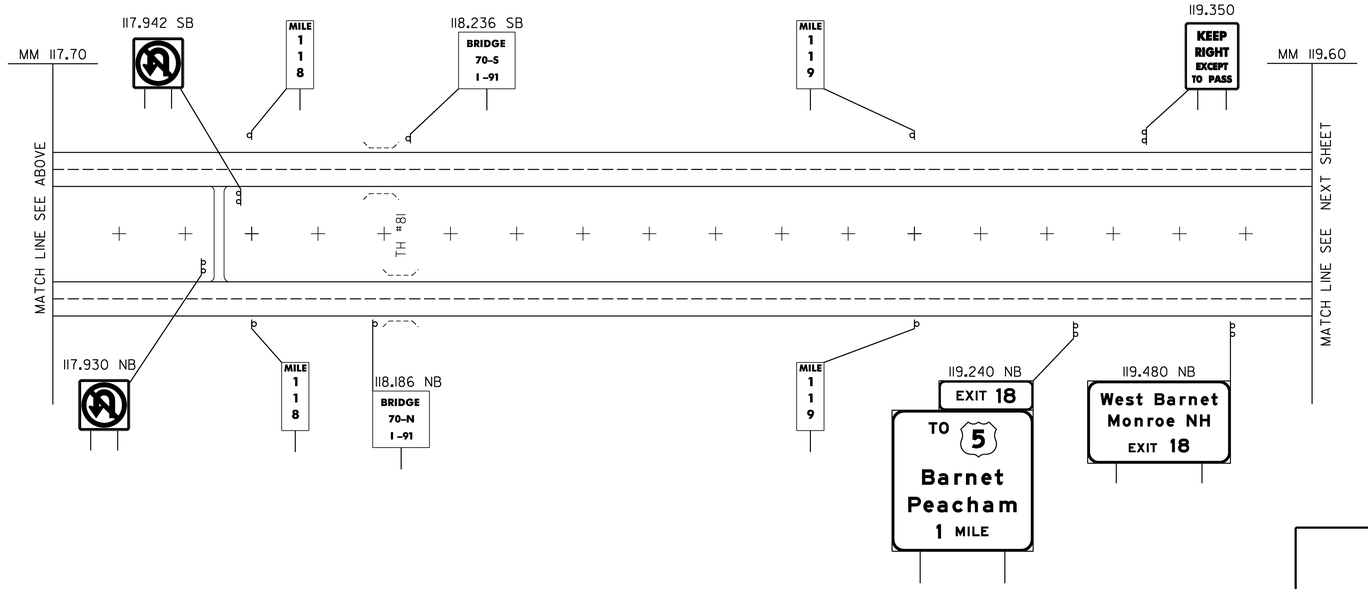
RET – RETAINED

ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

NEW SIGNS

PROJECT NAME:	RYEGATE-ST. JOHNSBURY
PROJECT NUMBER:	IM 091-2(73)
FILE NAME: 97194s-ml.dgn	PLOT DATE: 12/13/2006
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: DAM	CHECKED BY: DAM
CLD REF. NO.: 97-0194	SHEET 20 OF 88





ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

NEW SIGNS

PROJECT NAME: RYEGATE-ST. JOHNSBURY	
PROJECT NUMBER: IM 091-2(73)	
FILE NAME: 97194s-mi.dgn	PLOT DATE: 12/13/2006
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: DAM	CHECKED BY: DAM
CLD REF. NO.: 97-0194	SHEET 21 OF 88

VAOT Metric

A
119.603 SB
Wells River 12
White River Jct 50

B
120.940 SB
NEXT RIGHT

119.860 SB
SPEED LIMIT 65
MINIMUM 40

119.955 SB
GROOVED SHOULDER

MILE 120

120.049 SB
SOUTH
INTERSTATE 91
FEDERAL HIGHWAY SYSTEM

120.125 SB
EMERGENCY STOPPING ONLY

INTERCHANGE 18
SEE SHEET 27

120.736 SB
BRIDGE 73-S I-91

MILE 121

121.113 SB
BRIDGE 74-S I-91

121.200 SB
EXIT 18
TO 5
Barnet
Peacham
1/2 MILE
NEXT EXIT 10 MILES

121.450 SB
McIndoe Falls
East Ryegate
EXIT 18

121.700 SB
EXIT 18
TO 5
Barnet
Peacham
1 MILE

MM 119.60

MM 122.00

MATCH LINE SEE PREVIOUS SHEET

MATCH LINE SEE NEXT SHEET

119.800 NB

119.802 SB

TH #57

US 5

121.252 NB

121.254 SB

MM 121.76

MM 121.93

SCENIC VIEW
SEE SHEET 28

MILE 120

MM 120.17

MM 120.12

C

D

E

MILE 121

121.020 NB
BRIDGE 74-N I-91

121.600 NB
KEEP RIGHT EXCEPT TO PASS

121.744
EXIT 30 M.P.H.

119.731 NB
EXIT 18
TO 5
Barnet
Peacham
1/2 MILE
NEXT EXIT 10 MILES

119.950 NB
NEXT RIGHT

120.170 NB
EXIT 18
TO 5
Barnet
Peacham

120.750 NB
BRIDGE 73-N I-91

120.810 NB
EMERGENCY STOPPING ONLY

120.930 NB
SCENIC VIEW
1 MILE

120.981 NB
GROOVED SHOULDER

121.440 NB
SCENIC VIEW
NEXT RIGHT

C
120.884 NB
NORTH
INTERSTATE 91
FEDERAL HIGHWAY SYSTEM

D
121.087 NB
SPEED LIMIT 65
MINIMUM 40

E
121.260 NB
St. Johnsbury 9
Newport 53

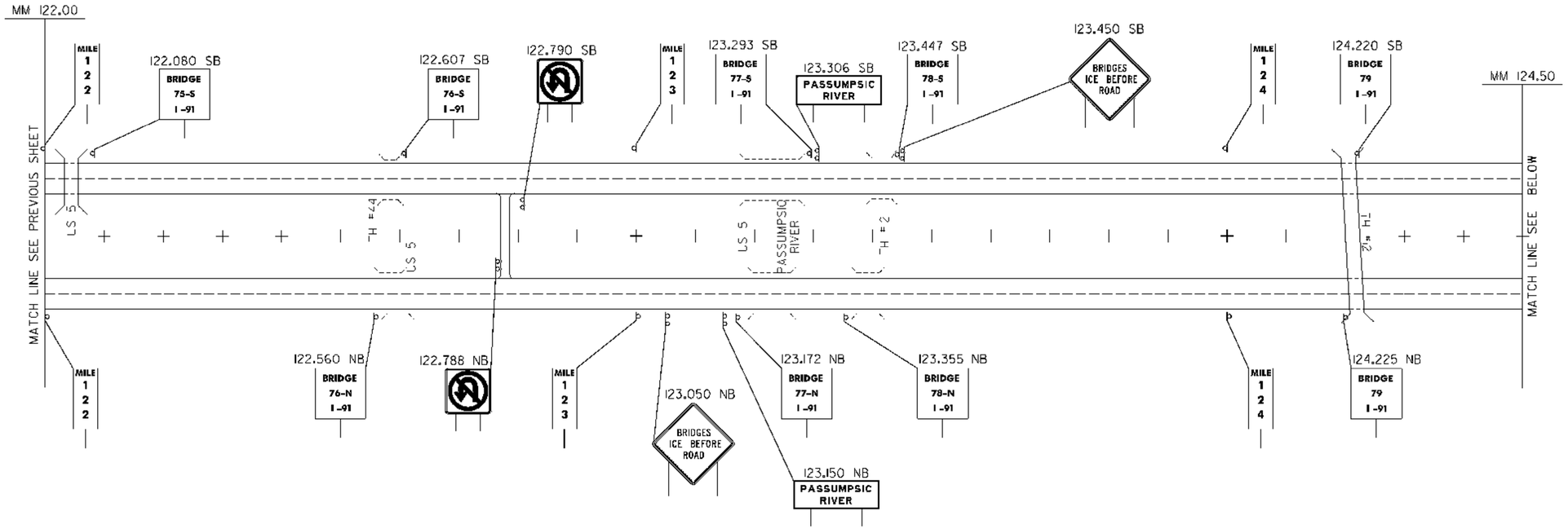
ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

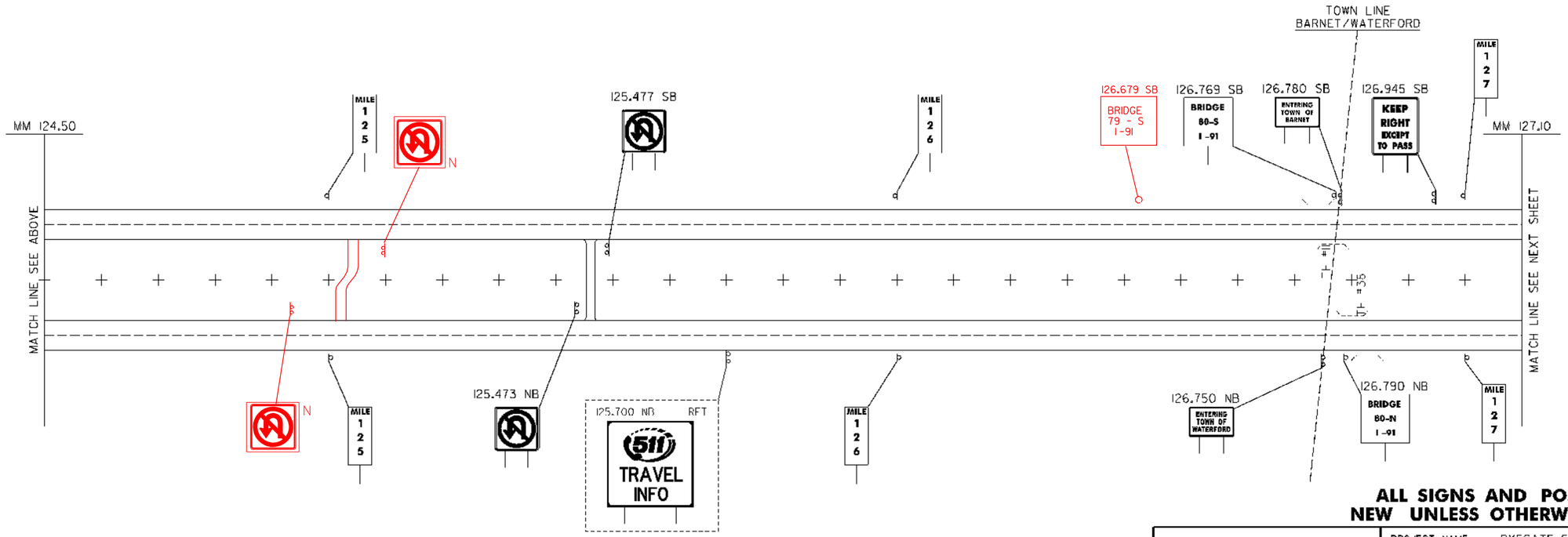
NEW SIGNS

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-ml.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 22 OF 88

Metric





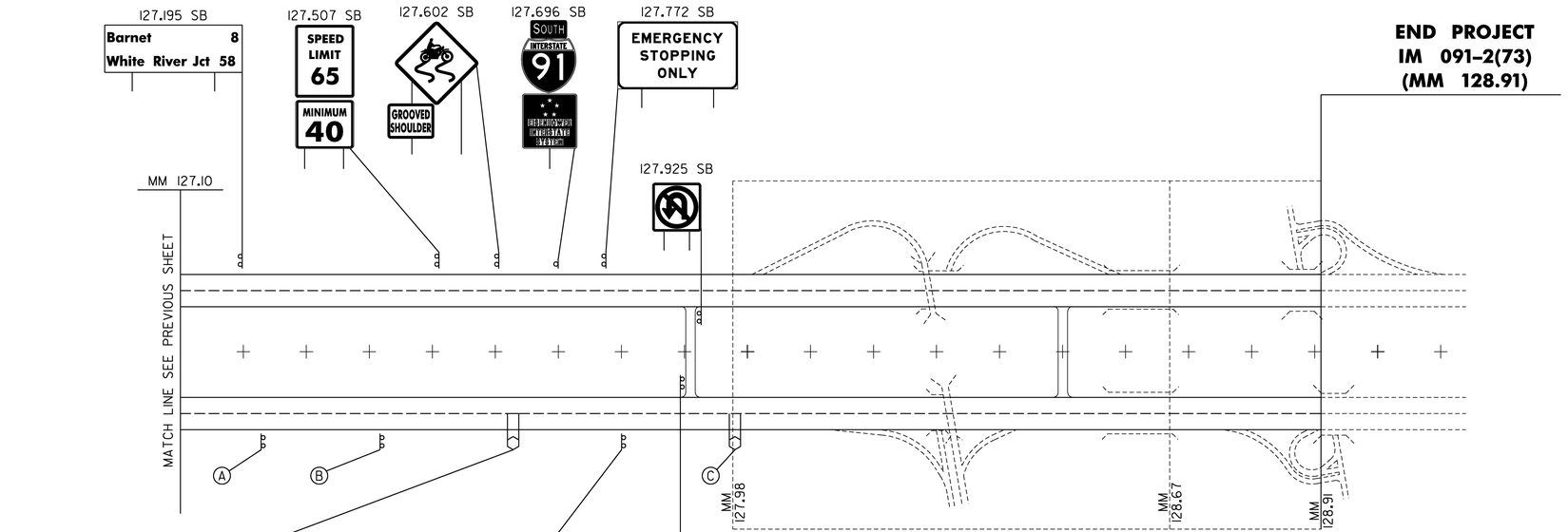
ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

NEW SIGNS

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-ml.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194

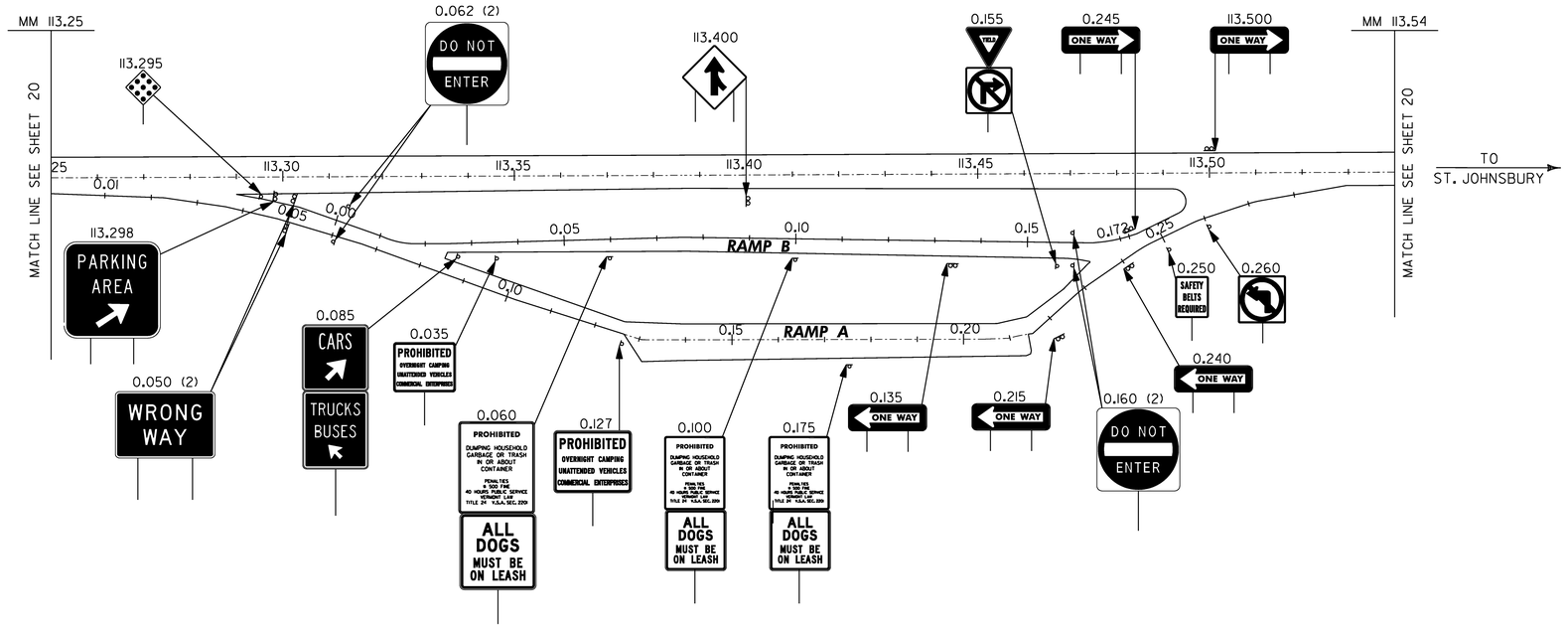
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 23 OF 88



ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

NEW SIGNS

PROJECT NAME:	RYEGATE-ST. JOHNSBURY
PROJECT NUMBER:	IM 091-2(73)
FILE NAME: 97194s-mi.dgn	PLOT DATE: 12/13/2006
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: DAM	CHECKED BY: DAM
CLD REF. NO.: 97-0194	SHEET 24 OF 88



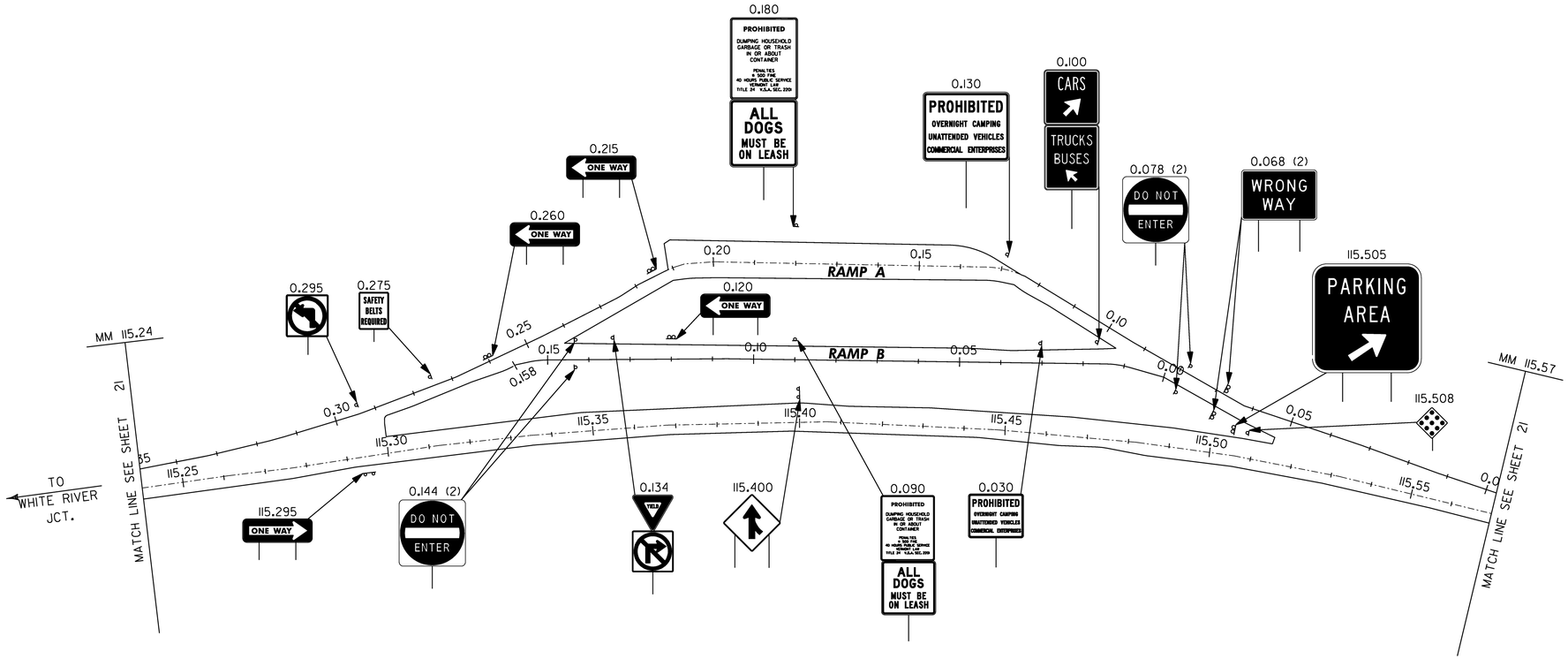
LEGEND

RET – RETAINED

ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

PARKING AREA 113.39 I-91 NB NEW SIGNS

PROJECT NAME:	RYEGATE-ST. JOHNSBURY		
PROJECT NUMBER:	IM 091-2(73)		
FILE NAME: 97194s-ra.dgn		PLOT DATE:	12/13/2006
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	DAM	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	25 OF 88



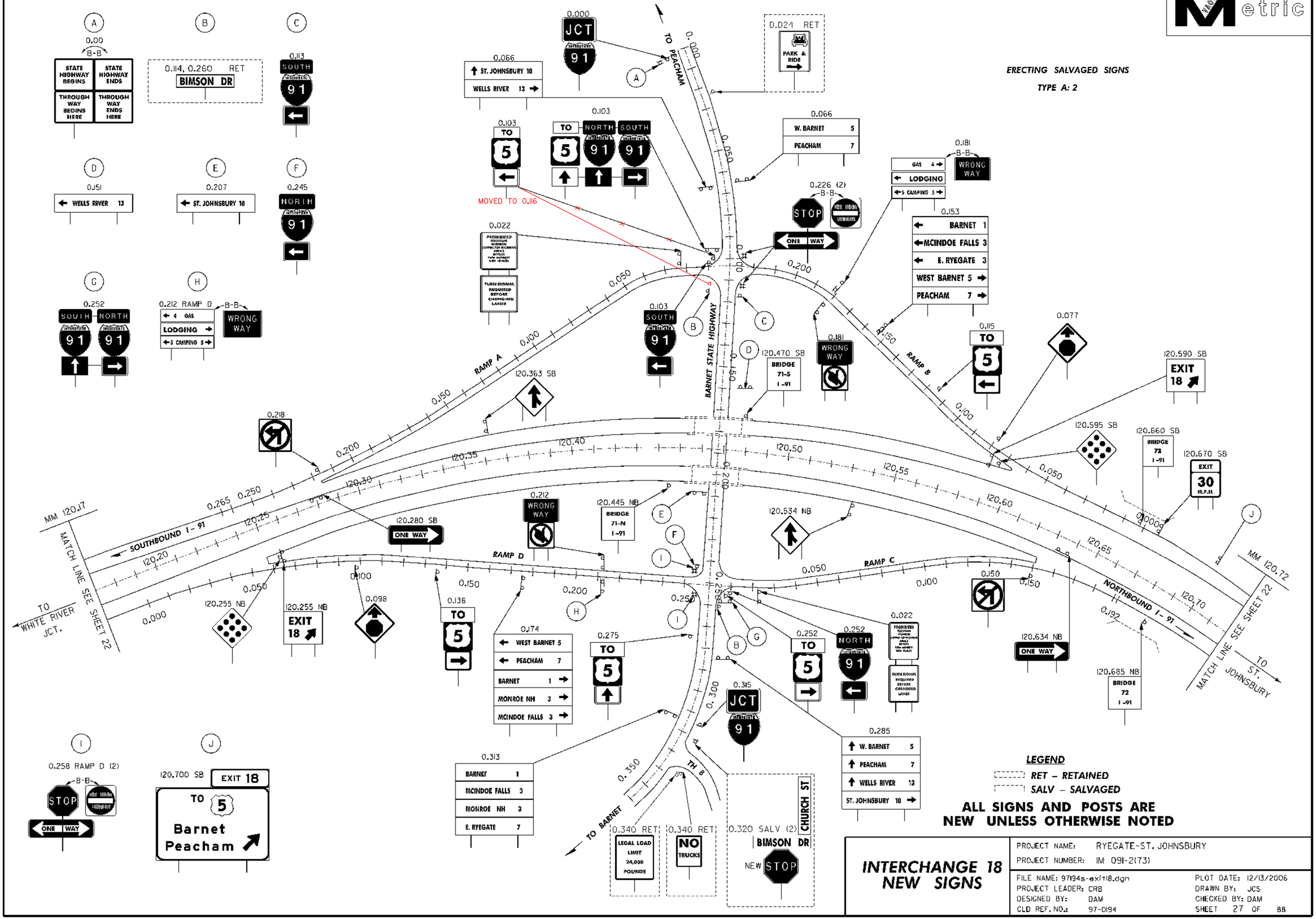
LEGEND

RET – RETAINED

ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

PARKING AREA 115.40 I–91 SB NEW SIGNS

PROJECT NAME:	RYEGATE-ST. JOHNSBURY
PROJECT NUMBER:	IM 091-2(73)
FILE NAME: 97194s-ra.dgn	PLOT DATE: 12/13/2006
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: DAM	CHECKED BY: DAM
CLD REF. NO.: 97-0194	SHEET 26 OF 88



ERECTING SALVAGED SIGNS

TYPE A: 2

LEGEND

RET – RETAINED

SALV – SALVAGED

ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

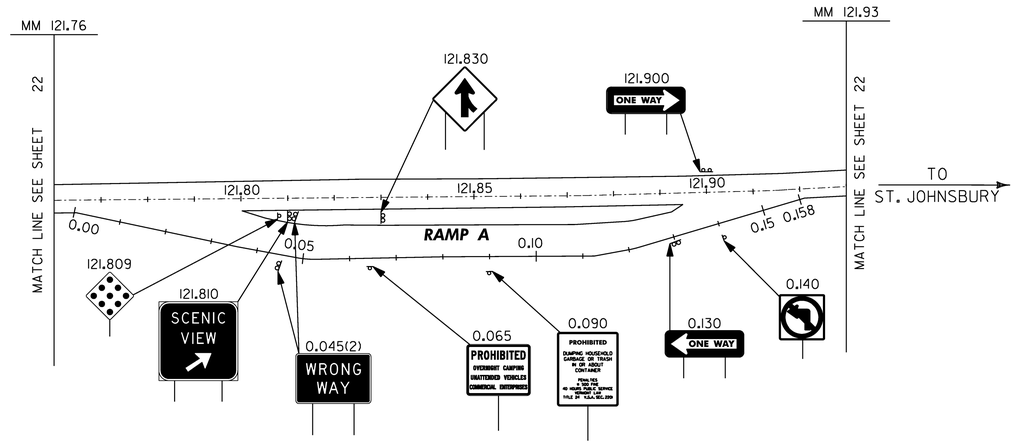
INTERCHANGE 18 NEW SIGNS

PROJECT NAME: RYEGATE-ST. JOHNSBURY

PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-exit18.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194

PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 27 OF 88



LEGEND

RET – RETAINED

ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

SCENIC VIEW 121.83 I-91 NB NEW SIGNS

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-ra.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 28 OF 88

VAOT Metric

TO WHITE RIVER JCT.

MM 127.98

MILE 128

128.029 SB
ONE WAY

0.465

MATCH LINE SEE SHEET 24

0.512 0.500

SOUTHBOUND I-91

NORTHBOUND I-91

128.00 128.05 128.10 128.15 128.20 128.25

0.450 0.400 0.350 RAMP B 0.300 0.250

128.125 SB

0.000 0.050 0.100

128.174 NB

128.176 NB
EXIT 19

0.142
RAMP
50 M.P.H.

0.150

RAMP A

0.200

128.225 NB
EXIT 20
5
St. Johnsbury
1/2 MILE
DOWNTOWN DISTRICT

0.210

0.250

0.305

0.300

0.400

0.450

SOUTHBOUND I-93

0.350

0.500

TO LITTLETON, N.H.

0.431
ONE WAY

NORTHBOUND I-93

0.050 0.100

0.081

0.063

0.061

0.320

128.273 NB
BRIDGE
81-N
I-91

0.152
BRIDGE
81-B-1
I-91

128.325 SB
BRIDGE
81-S
I-91

TOWN LINE
WATERFORD / ST. JOHNSBURY - MM 128.346

MM 128.42

RAMP D

0.250 0.200

128.346 SB
ENTERING TOWN OF WATERFORD

0.200 0.300

128.35 128.40

MATCH LINE SEE NEXT SHEET

TO LYNDON

128.346 NB MED
ENTERING TOWN OF ST. JOHNSBURY

128.350 NB

RAMP C

0.120 0.150 0.170
RET

0.150

0.110
BRIDGE ICES BEFORE ROAD

0.100 0.100

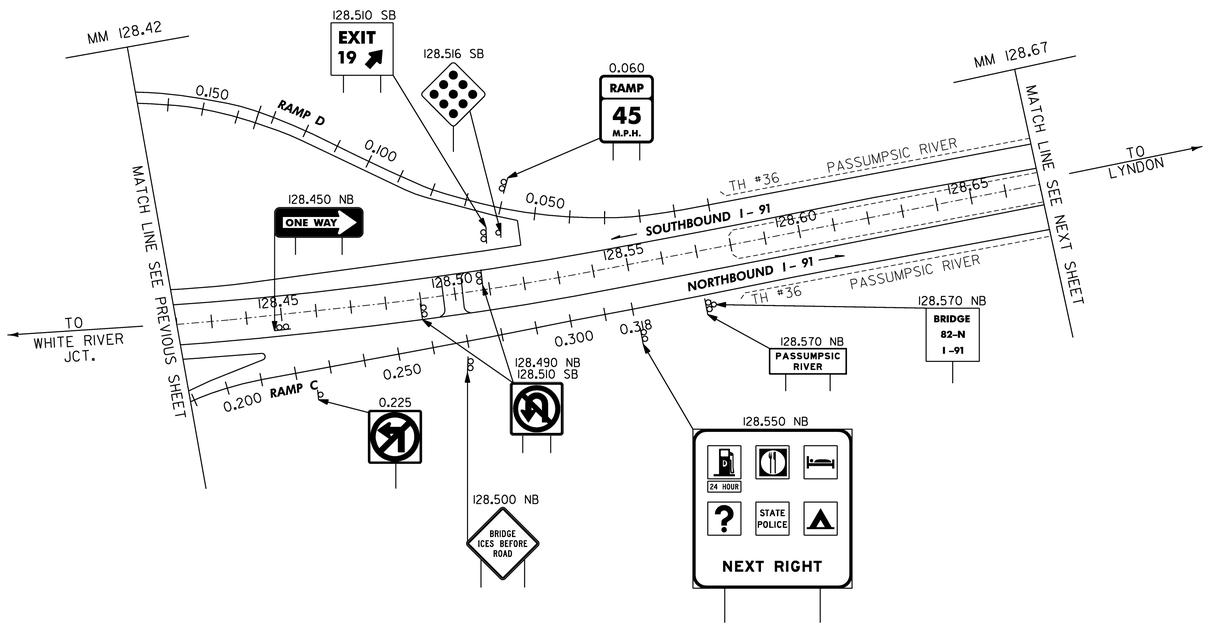
LEGEND

RET – RETAINED

ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

INTERCHANGE 19 NEW SIGNS

PROJECT NAME:	RYEGATE-ST. JOHNSBURY
PROJECT NUMBER:	IM 091-2(73)
FILE NAME: 97194s-exit19.dgn	PLOT DATE: 12/13/2006
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: DAM	CHECKED BY: DAM
CLD REF. NO.: 97-0194	SHEET 29 OF 88



LEGEND

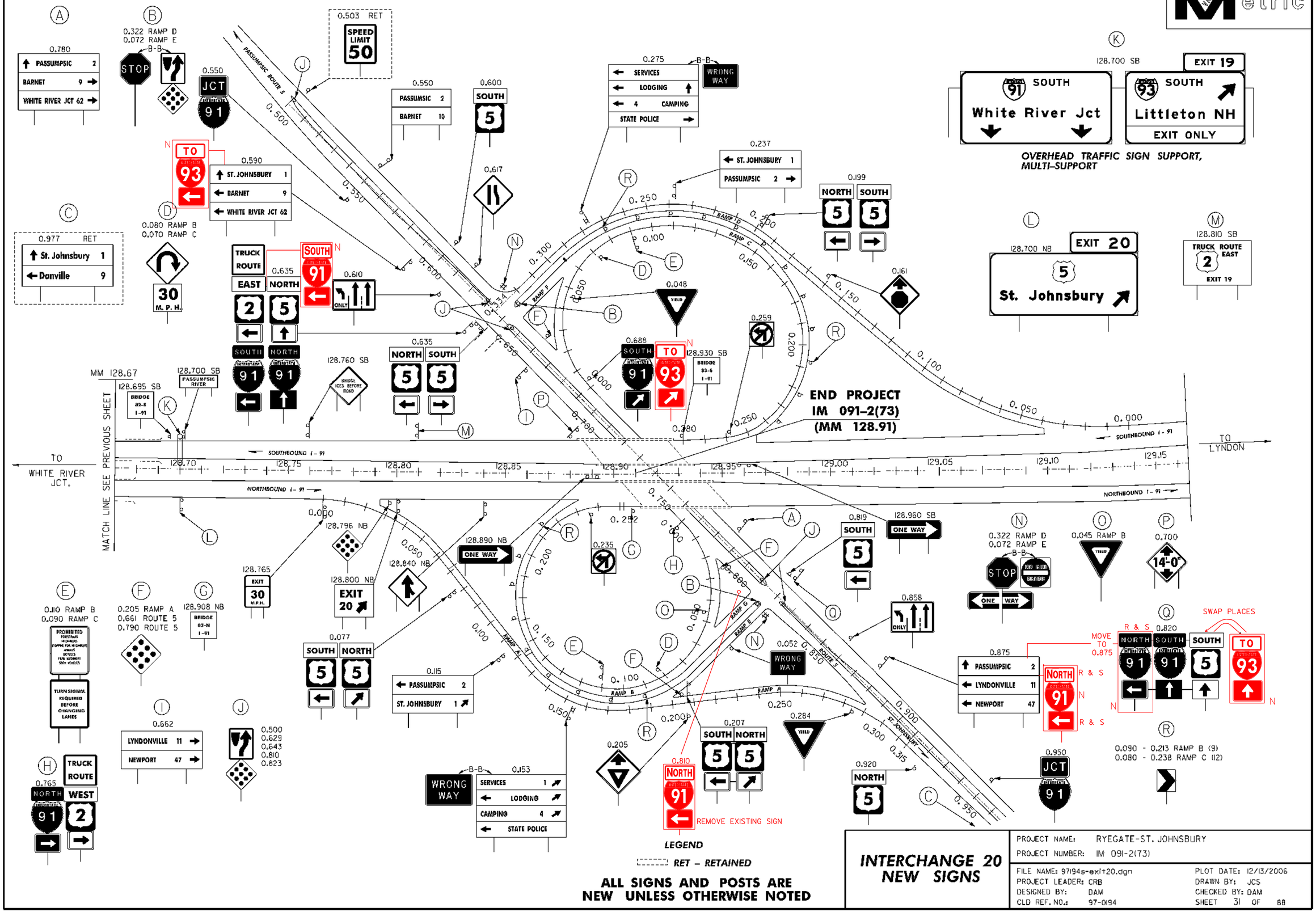
RET – RETAINED

ALL SIGNS AND POSTS ARE NEW UNLESS OTHERWISE NOTED

INTERCHANGE 19 NEW SIGNS

PROJECT NAME:	RYEGATE-ST. JOHNSBURY
PROJECT NUMBER:	IM 091-2(73)
FILE NAME: 97194s-exit19.dgn	PLOT DATE: 12/13/2006
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: DAM	CHECKED BY: DAM
CLD REF. NO.: 97-0194	SHEET 30 OF 88

Metric



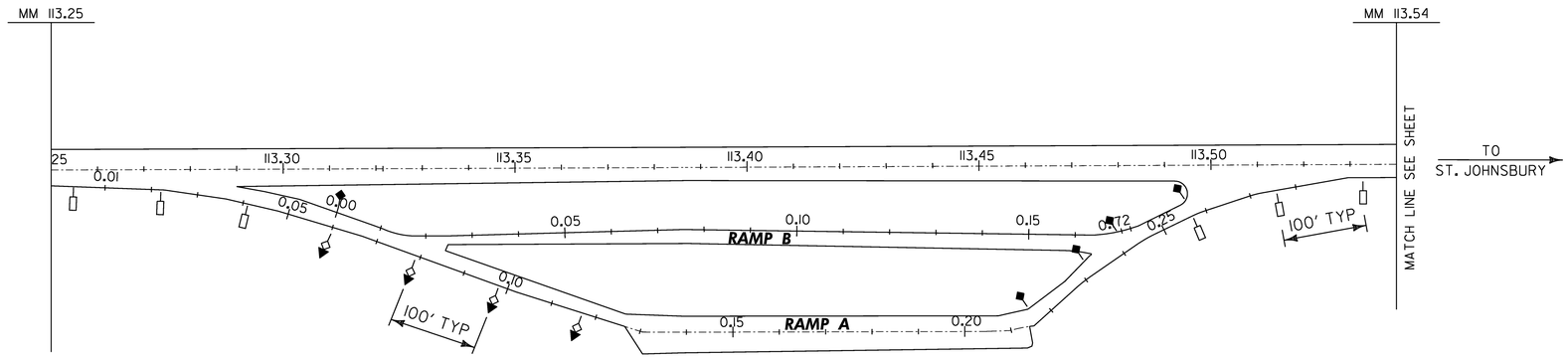
INTERCHANGE 20 NEW SIGNS

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-exit20.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 31 OF 88

Decel. lane taper begins at 113.17 ±
620′ from Gore
Use 7 Type II Delineators

Accel. lane taper ends at 113.63 ±
700′ from Gore
Use 8 Type II Delineators



LEGEND

- ***TYPE I (WHITE)***
- ***TYPE I (YELLOW)***
- ***TYPE II (WHITE)***
- ***TYPE III (RED ON BACK, WHITE)***
- ***TYPE III (RED ON BACK, YELLOW)***

PARKING AREA 113.39 I–91 NB DELINEATOR LAYOUT

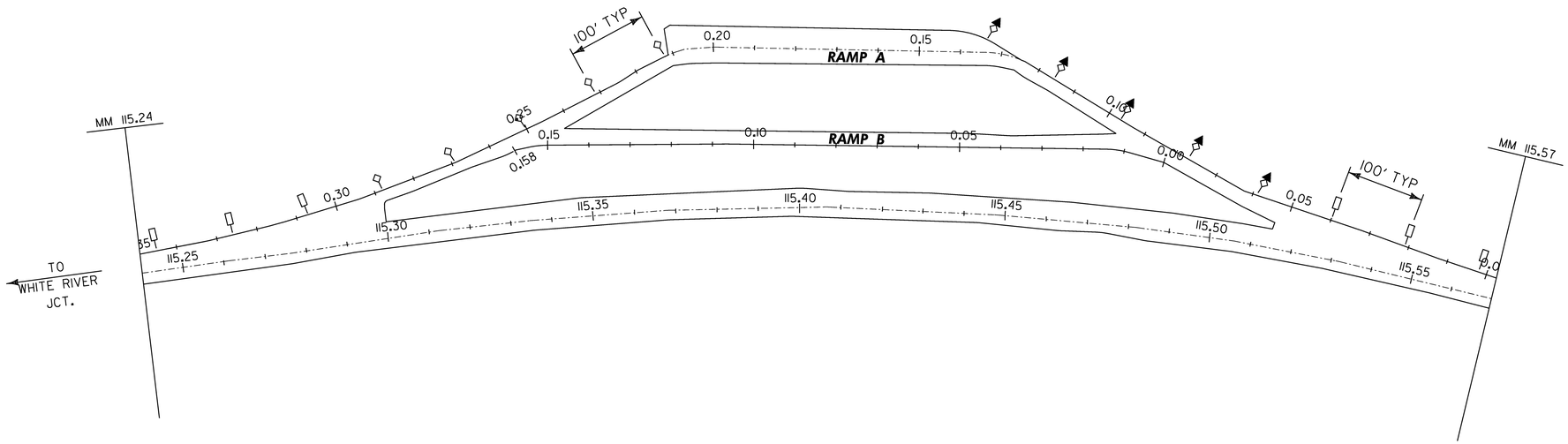
PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-ra.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 32 OF 88

VAOT Metric

Accel. lane taper ends at 115.136 ± 865′ from Gore
Use 9 Type II Delineators

Decel. lane taper begins at 115.59 ± 375′ from Gore
Use 4 Type II Delineators



LEGEND

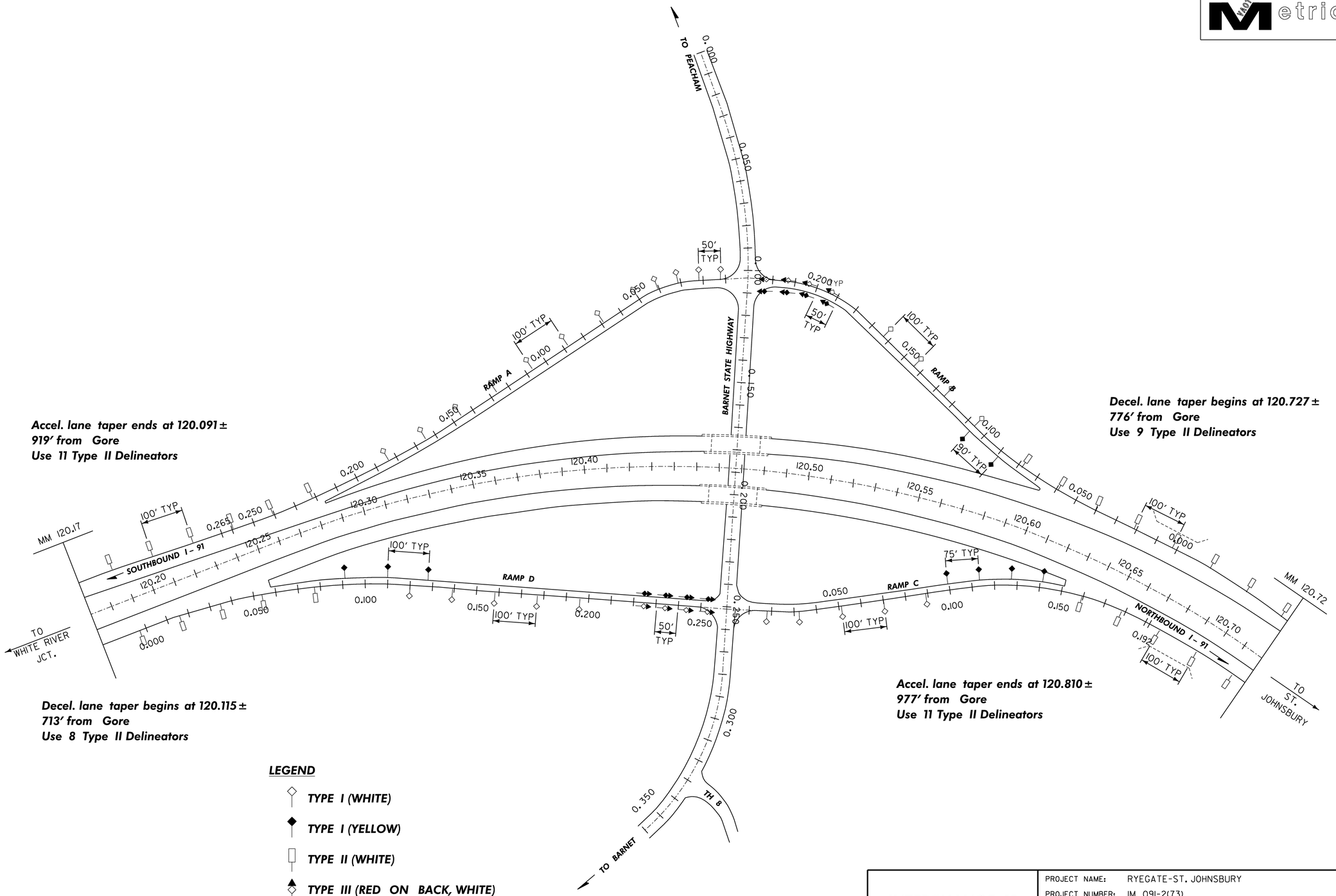
- *TYPE I (WHITE)*
- *TYPE I (YELLOW)*
- *TYPE II (WHITE)*
- *TYPE III (RED ON BACK, WHITE)*
- *TYPE III (RED ON BACK, YELLOW)*

PARKING AREA 115.40 I-91 SB DELINEATOR LAYOUT

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-ra.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 33 OF 88

VAOT Metric



Accel. lane taper ends at 120.091 ± 919′ from Gore
Use 11 Type II Delineators

Decel. lane taper begins at 120.727 ± 776′ from Gore
Use 9 Type II Delineators

Decel. lane taper begins at 120.115 ± 713′ from Gore
Use 8 Type II Delineators

Accel. lane taper ends at 120.810 ± 977′ from Gore
Use 11 Type II Delineators

LEGEND

- ***TYPE I (WHITE)***
- ***TYPE I (YELLOW)***
- ***TYPE II (WHITE)***
- ***TYPE III (RED ON BACK, WHITE)***
- ***TYPE III (RED ON BACK, YELLOW)***

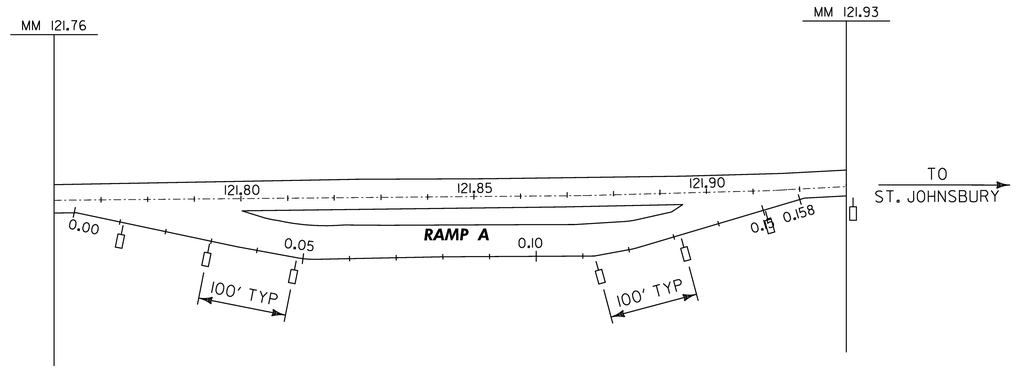
INTERCHANGE 18 DELINEATOR LAYOUT

PROJECT NAME:	RYEGATE-ST. JOHNSBURY
PROJECT NUMBER:	IM 091-2(73)
FILE NAME: 97194s-exit18.dgn	PLOT DATE: 12/13/2006
PROJECT LEADER: CRB	DRAWN BY: JCS
DESIGNED BY: DAM	CHECKED BY: DAM
CLD REF. NO.: 97-0194	SHEET 34 OF 88

Metric

Decel. lane taper begins at 121.682 ± 660′ from Gore
Use 7 Type II Delineators

Accel. lane taper ends at 122.00 ± 550′ from Gore
Use 6 Type II Delineators



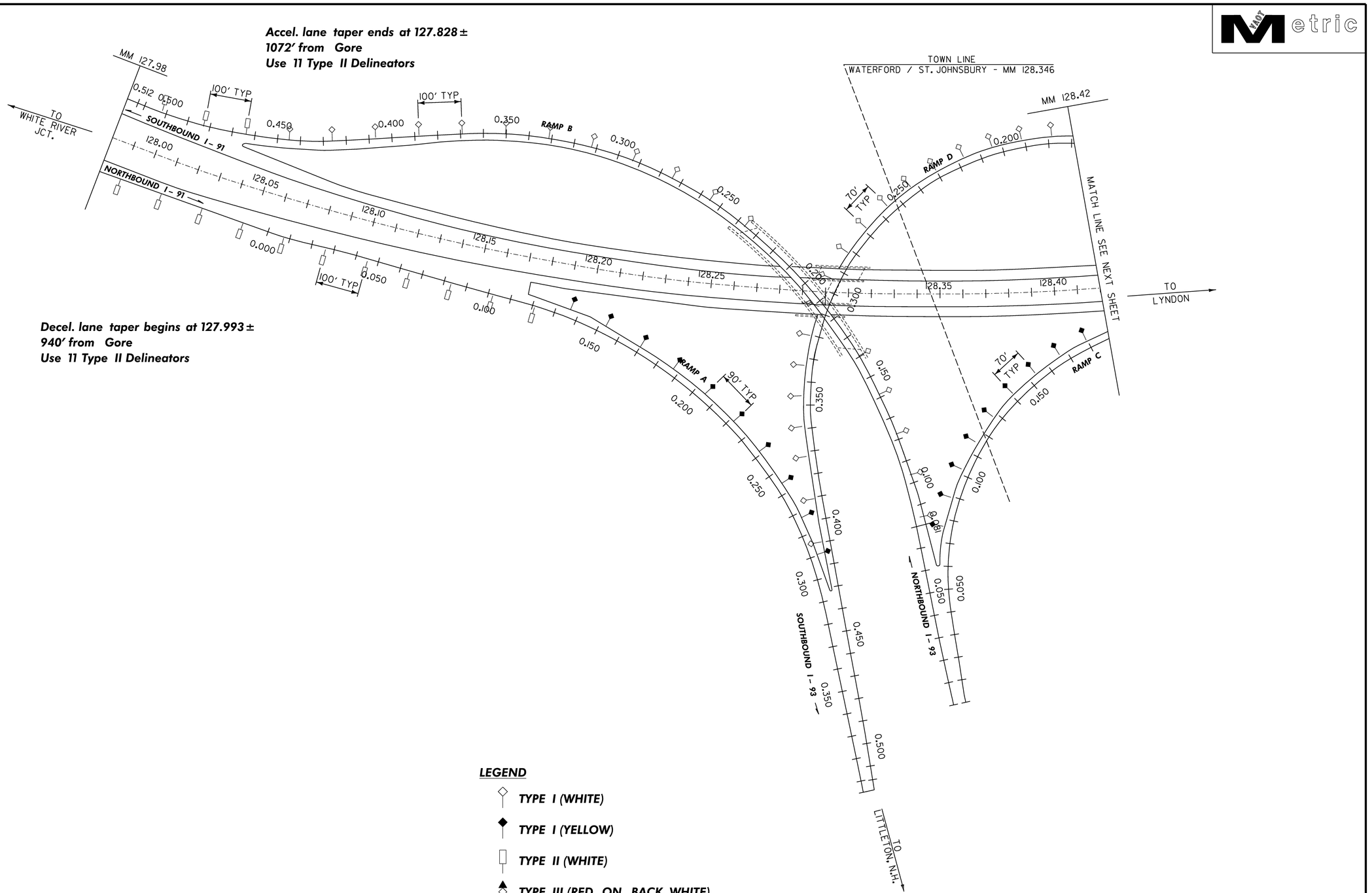
LEGEND

- ***TYPE I (WHITE)***
- ***TYPE I (YELLOW)***
- ***TYPE II (WHITE)***
- ***TYPE III (RED ON BACK, WHITE)***
- ***TYPE III (RED ON BACK, YELLOW)***

SCENIC VIEW 121.83 I-91 NB DELINEATOR LAYOUT

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

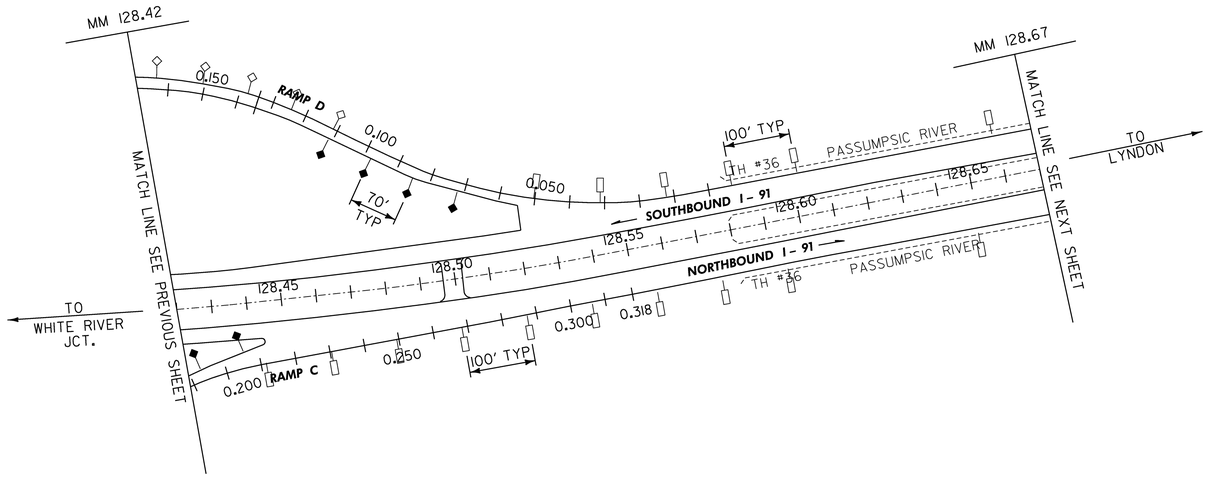
FILE NAME: 97194s-ra.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 35 OF 88



INTERCHANGE 19 DELINEATOR LAYOUT

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-exit19.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 36 OF 88



LEGEND

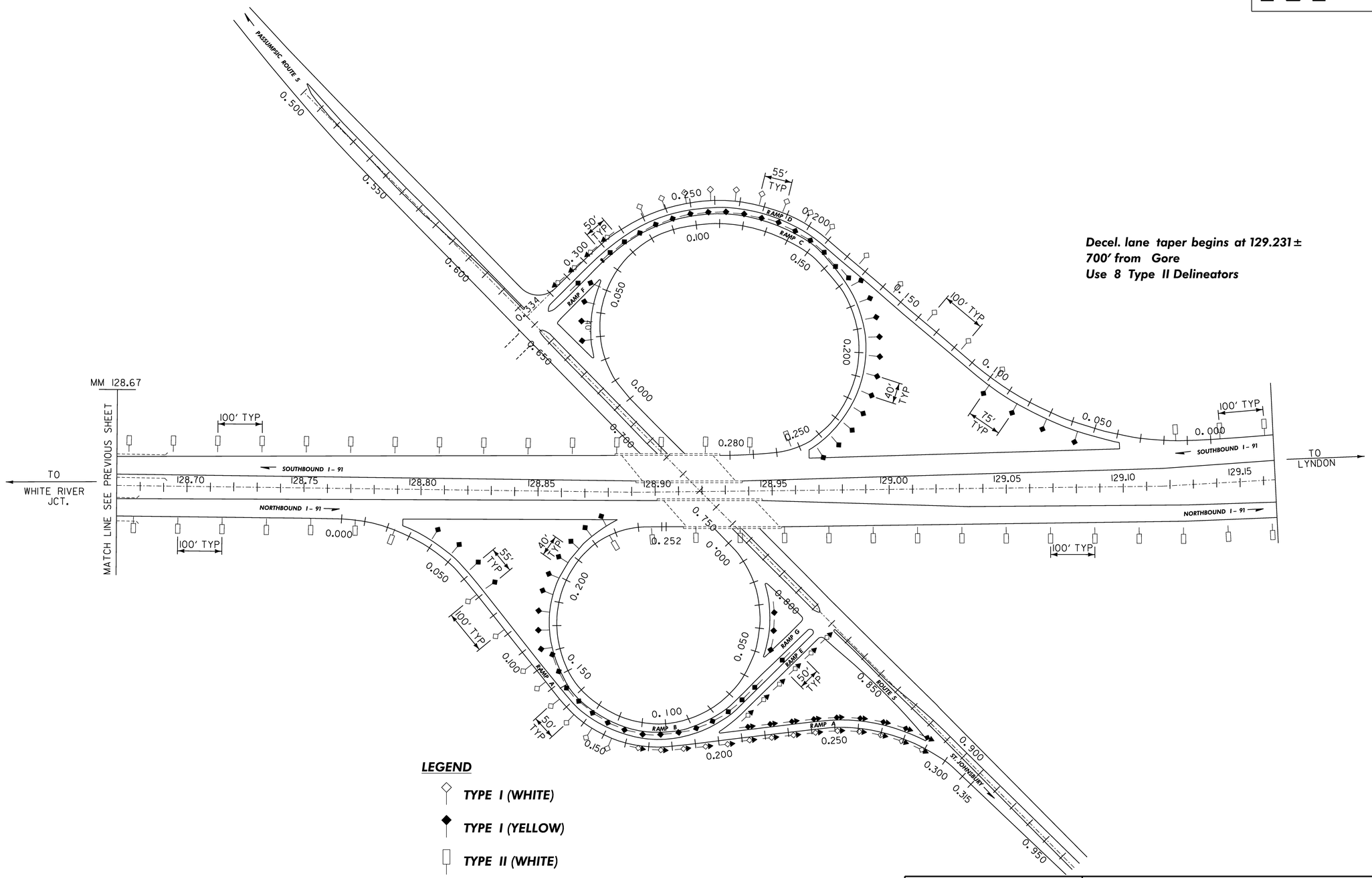
- ***TYPE I (WHITE)***
- ***TYPE I (YELLOW)***
- ***TYPE II (WHITE)***
- ***TYPE III (RED ON BACK, WHITE)***
- ***TYPE III (RED ON BACK, YELLOW)***

INTERCHANGE 19 DELINEATOR LAYOUT

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-exit19.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 37 OF 88

VAOT Metric



Decel. lane taper begins at 129.231± 700′ from Gore
Use 8 Type II Delineators

LEGEND

- ***TYPE I (WHITE)***
- ***TYPE I (YELLOW)***
- ***TYPE II (WHITE)***
- ***TYPE III (RED ON BACK, WHITE)***
- ***TYPE III (RED ON BACK, YELLOW)***

INTERCHANGE 20 DELINEATOR LAYOUT

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-exit20.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194

PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 38 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 1

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHOR	SLIP SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
NORTHBOUND 111.450 NB	BRIDGE 68 I-91	1	150	250	0.04						1		4.27 X		X			X															VD-701	78	
112.000 NB	MILE 1 1 2	1	300	1200	0.36						1			4.27 X		X		X															D10-3		E-139
112.150 NB	PARKING AREA 1 MILE R	1	3600	1350		4.86					2												2		101.56 X							D5-3	72	
112.159 NB MED		1	900	900	0.81						2			8.54 X		~~X~~		~~X~~															R3-4		E-143
112.563 NB TO 128.204 NB	BRIDGE XX-N I-91	9	150	250	0.36						9		30.05 X		X			X															VD-701 NOT SHOWN ON PLANS. SEE PAGE 78 OF 88	78	
112.907 NB MED		1	900	900	0.81						2			8.54 X		~~X~~		~~X~~															R3-4		E-143
113.000 NB	MILE 1 1 3	1	300	1200	0.36						1			2.44 X		X		X															D10-3		E-139
113.095 NB	BRIDGE 69-N I-91	1	150	250	0.04						1		3.05 X		X			X															VD-701	78	
113.140 NB	PARKING AREA NEXT RIGHT R	1	3600	1350		4.86					2												2			157.06 X								72	
113.208 NB	EXIT 30 M.P.H.	1	1200	1500	1.80						2												2	98.16 X									W13-2		E-150
113.295 NB		1	450	450	0.20						1		4.27 X		~~X~~			~~X~~															OM-1		E-150
113.298 NB	PARKING AREA R	1	2250	1950		4.39					2												2		127.47 X								72	
113.400 NB		1	1200	1200	1.44						2												2	93.00 X									W4-1		E-150
113.500 MED	ONE WAY	1	900	300	0.27						2			8.53 X		~~X~~		~~X~~															R6-1R		E-142
114.000 NB	MILE 1 1 4	1	300	1200	0.36						1			4.27 X		X		X															D10-3		E-139
115.000 NB	MILE 1 1 5	1	300	1200	0.36						1			4.27 X		~~X~~		~~X~~															D10-3		E-139
116.19 NB	BRIDGE 69-9 I-91						1						2.44 X																						
											m 0.0	m ~~31.7~~ 44.08	m ~~41.0~~ 40.86		m 31.7	m ~~41.0~~	m ~~0.0~~		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg ~~180.9~~ 191.16	kg ~~210.9~~ 229.03	kg ~~140.1~~ 157.04	kg 0.0								
											84.94														577.23											
							1																													
	SHEET TOTALS	m2 7.21	m2 14.11	EA. ~~0~~	m2 0.00		84.94 m ~~72.7~~				m ~~72.7~~				kg 0.0				EA. 10	kg ~~531.9~~					EA. 0	EA. 0	kg 0								

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	tsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	39 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 2

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 3.4	50 3.9	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) kg/m 75 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) kg/m FNDATION	75 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
115.700 NB MED		1	900	900	0.81						2			8.54 X		X		X															R3-4		E-143
116.000 NB	MILE 116	1	300	1200	0.36						1			3.66 X		X		X															D10-3		E-139
117.000 NB	MILE 117	1	300	1200	0.36						1			3.66 X		X		X															D10-3		E-139
117.220 NB	ENTERING TOWN OF BARNET	1	900	600	0.54						2			9.76 X		X		X															I-2		E-131
117.930 NB MED		1	900	900	0.81						2			8.54 X		X		X															R3-4		E-143
118.000 NB	MILE 118	1	300	1200	0.36						1			3.66 X		X		X															D10-3		E-139
118.186 NB	BRIDGE 70-N I-91	1	150	250	0.04						1		2.44 X		X			X															VD-701	78	
119.000 NB	MILE 119	1	300	1200	0.36						1			4.27 X		X		X															D10-3		E-139
119.240 NB	EXIT 18	1	2400	750	1.80																												E1-5		E-131
	TO 5 Barnet Peacham 1 MILE	1	3600	3600		12.96			R		2																		2		364.85 352	W200X26.6		POSTS Bolt Tension 108.8 kN 13.716m	72	
119.480 NB	West Barnet Monroe NH EXIT 18	1	3900	2250		8.78					2																		2		215.33 215	W150X18		BOLT TENSION 53.4 kN 11.963	72	
119.731 NB	EXIT 18	1	2400	750	1.80																												E1-5		E-131
	TO 5 Barnet Peacham ½ MILE	1	3600	3450		12.42																												73	
	NEXT EXIT 10 MILES	1	2400	1200		2.88					2																		2		320.26 339	W200X26.6		E2-1a Bolt Tension 100.8 kN		E-131
119.800 NB MED		1	900	900	0.81						2			9.15 X		X		X															R3-4		E-143
119.950 NB	NEXT RIGHT	1	3600	3600		12.96					2																		2		358.75 384	W200X26.6		Bolt Tension 85.5 kN	73	
118.82 NB	BRIDGE 70-3N I-91						1						2.44 X																						
											m 0.0	m 2.6 4.88	m 54.7 51.24		m ~~2.6~~	m ~~64.7~~	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0								
												56.12																							
	SHEET TOTALS		m2 8.05	m2 50.00	EA. ~~0~~ 1	m2 ~~0.00~~						56.12 m ~~57.3~~				m ~~57.3~~				kg 0.0		EA. 0		kg 0.0			EA. 8	EA. 0	kg ~~1290~~ 1259.19					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	tsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	40 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 3

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
120.000 NB	MILE 120	1	300	1200	0.36						1			4.27 X		~~X~~		~~X~~																	D10-3		E-139
120.170 NB	EXIT 18	1	2400	750	1.80																														E1-5		E-131
	TO (5) Barnet Peacham	1	4650	3000		13.95					2																	2		474 ~~448~~	W200X31.3			Bolt Tension 126.3 kN SEE FOOTING DETAIL ON SHEET 3	73	
120.255 NB		1	450	450	0.20						1		2.44 X			~~X~~		~~X~~																	OM-1		E-150
120.255 NB	EXIT 18	1	1800	1500		2.70					2												2	91.27 X										E5-1a		E-131
120.445 NB	BRIDGE 71 N I-91	1	150	250	0.04						1		2.44 X			~~X~~		~~X~~																	VD-701	78	
120.534 NB		1	1200	1200	1.44						2												2	95.58 X										W4-1		E-150
120.634 NB MED	ONE WAY	1	900	300	0.27						2			8.53 X		~~X~~		~~X~~																	R6-1R		E-142
120.685 NB	BRIDGE 72 I-91	1	150	250	0.04						1		2.44 X			~~X~~		~~X~~																	VD-701	78	
120.750 NB	BRIDGE 73- N I-91	1	150	250	0.04						1		2.44 X			~~X~~		~~X~~																	VD-701	78	
120.810 NB	EMERGENCY STOPPING ONLY	1	1200	900	1.08						2												2	84.39 X										R8-7		E-142
120.884 NB	NORTH	1	750	375	0.28																														M3-1		E-135
	INTERSTATE 91	1	900	900	0.81																														M1-1		E-135
	FREEDOM SCENIC HIGHWAY	1	900	900	0.81						1												1	55.97 X										M1-10		E-135
											m 0.0	m 10.5 9.76	m 13.0 12.80		m 10.5	m 13.0	m 0.0	EA. 0		kg 0.0	kg 0.0	kg 0.0		kg ~~301.9~~ 327.21	kg 0.0	kg 0.0	kg 0.0			474						
											22.6																										
	SHEET TOTALS		m2 7.17	m2 16.65	EA. 0	m2 0.00					m ~~23.5~~				m ~~23.5~~					kg 0.0			EA. 7		kg 327.21 ~~301.9~~			EA. 2	EA. 0	kg ~~448~~						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	41 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 4

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
120.930 NB	SCENIC VIEW 1 MILE	1	3200	1350		4.32					2												2			166.85 X								73	
120.981 NB		1	1200	1200	1.44																												VW-397	77	
	GROOVED SHOULDER	1	600	450	0.27						2												2	90.4 X								VP-396	77	
121.000 NB	MILE 1 2 1	1	300	1200	0.36						1			3.66 X		~~X~~		~~X~~														D10-3		E-139
121.020 NB	BRIDGE 74 - N I-91	1	150	250	0.04						1		2.44 X		~~X~~			~~X~~														VD-701	78	
121.087 NB	SPEED LIMIT 65	1	1200	1500	1.80																											R2-1		E-142
	MINIMUM 40	1	1200	1200	1.44						2												2	124.00 X								VR-141		E-142
121.252 NB MED		1	900	900	0.81						2			8.54 X		~~X~~		~~X~~														R3-4		E-143
121.260 NB	St. Johnsbury 9 Newport 53	1	3300	900		2.97					2												2	80.08 X								E7	73	
121.440 NB	SCENIC VIEW NEXT RIGHT	1	3000	1500		4.50					2												2			141.08 X								73	
121.600 NB	KEEP RIGHT EXCEPT TO PASS	1	1200	1500	1.80						2									20.88 X												VR-132 POST 17' 6" 18' 0"	77	
121.744 NB	EXIT 30 M.P.H.	1	1200	1500	1.80						2									21.48 X												W13-2 POST 18' 0" 18' 6"		E-150
121.809 NB		1	450	450	0.20						1		X		2.44 ~~X~~			~~X~~														OM-1		E-150
121.810 NB	SCENIC VIEW	1	1950	1950		3.80					2												2	96.43 X									73	E-131
121.830 NB		1	1200	1200	1.44						2												2	75.78 X								W4-1		E-150
121.900 NB MED	ONE WAY	1	900	300	0.27						2			8.53 X		~~X~~		~~X~~														R6-1R		E-142
												m 0.0	m 5.3	m 23.7	m 5.3	m 23.7	m 0.0		EA. 0	kg 49.4	kg 0.0	kg 0.0		kg 479.9	kg 0.0	kg 330.2	kg 0.0								
													4.88	20.73										466.7		307.93									
													25.6								42.4				774.63											
	SHEET TOTALS	m2 11.67	m2 15.59	EA. 0	m2 0.00							m ~~29.0~~			m ~~29.0~~					kg ~~49.4~~			EA. 14	kg ~~810.1~~				EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	fsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	42 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 5

Metric

MILE MARKER	SIGN LEGEND	NEW & SALVAGED SIGNS: EA	SIGN DIMENSIONS: WIDTH (mm)	SIGN DIMENSIONS: HEIGHT (mm)	"A"	"B"	SALV SIGN	SALV TIS	EXIST POST: RETAIN	EXIST POST: SALVAGE	NEW SIGN POSTS: NO. OF POSTS	FLANGED CHANNEL kg/m: 1.7	FLANGED CHANNEL kg/m: 3.0	FLANGED CHANNEL kg/m: 4.5	SQUARE STEEL (mm) kg/m: 44 / 3.4	SQUARE STEEL (mm) kg/m: 50 / 3.9	SQUARE STEEL (mm) kg/m: 63 / 5.0	ANCHOR	BREAKAWAY LEVEL	TUBULAR ALUMINUM DIA (mm) kg/m: 75 / 1.9	TUBULAR ALUMINUM DIA (mm) kg/m: 100 / 2.5	TUBULAR ALUMINUM DIA (mm) kg/m: 100MD / 2.5	TUBULAR STEEL DIA (mm): FNDATION	TUBULAR STEEL DIA (mm) kg/m: 75 / 11.3	TUBULAR STEEL DIA (mm) kg/m: 90 / 13.6	TUBULAR STEEL DIA (mm) kg/m: 100 / 16.1	TUBULAR STEEL DIA (mm) kg/m: 125 / 21.8	W-SHAPE STEEL FTG. SIZE: 600 mm	W-SHAPE STEEL FTG. SIZE: 750 mm	W-SHAPE STEEL: MASS	W-SHAPE STEEL: POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	SIGN DETAIL: STD. SHEET NUMBER
122.000 NB	MILE 1 2 2	1	300	1200	0.36						1			3.66 X		~~X~~		~~X~~																D10-3		E-139
122.560 NB	BRIDGE 76- N I-91	1	150	250	0.04						1		X 2.44		~~X~~			~~X~~																VD-701	78	
122.788 NB MED		1	900	900	0.81						2			8.54 X		X		X																R3-4		E-143
123.000 NB	MILE 1 2 3	1	300	1200	0.36						1			4.27 X		~~X~~		~~X~~																D10-3		E-139
123.050 NB	BRIDGES ICE BEFORE ROAD	1	1200	1200	1.44						2									22.21 X														POST 18' 6" 19' 3"	77	
123.150 NB	PASSUMPSIC RIVER	1	900	600	0.54						2			9.14 X		~~X~~		~~X~~																I-3 POST 14' 0" 16' 0"		E-131
123.172 NB	BRIDGE 77- N I-91	1	150	250	0.04						1		2.44 X		~~X~~			~~X~~																VD-701	78	
123.355 NB	BRIDGE 78- N I-91	1	150	250	0.04						1		2.44 X		~~X~~			~~X~~																VD-701	78	
124.000 NB	MILE 1 2 4	1	300	1200	0.36						1			4.27 X		~~X~~		~~X~~																D10-3		E-139
124.225 NB	BRIDGE 79 I-91	1	150	250	0.04						1		2.44 X		X			X																VD-701	78	
125.000 NB	MILE 1 2 5	1	300	1200	0.36						1			4.27 X		~~X~~		~~X~~																D10-3		E-139
125.473 NB MED		1	900	900	0.81						2			9.14 X		~~X~~		~~X~~																R3-4		E-143
126.000 NB	MILE 1 2 6	1	300	1200	0.36						1			3.66 X		~~X~~		~~X~~																D10-3		E-139
126.750 NB	ENTERING TOWN OF WATERFORD	1	900	600	0.54						2			8.54 X		~~X~~		~~X~~																I-2		E-131
124.95 NM		1	900	900	0.81						2			9.14 X																						
											m 0.0	m 10.4	m 58.2		m 10.4	m 58.2	m 0.0		EA. 0	kg ~~23.6~~ 22.21	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0								
					6.91								76.83																							
	SHEET TOTALS				m2 ~~6.10~~	m2 0.00	EA. 0	m2 ~~0.00~~					m ~~68.6~~			m ~~68.6~~					22.21 kg ~~23.6~~			EA. 0	kg 0.0			EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/08
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	43 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 6

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	FLANGED CHANNEL kg/m 3.0	FLANGED CHANNEL kg/m 4.5	SQUARE STEEL (mm) 44 kg/m 3.4	SQUARE STEEL (mm) 50 kg/m 3.9	SQUARE STEEL (mm) 63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	TUBULAR ALUMINUM DIA (mm) 100 kg/m 2.5	TUBULAR ALUMINUM DIA (mm) 100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FNDATION	TUBULAR STEEL DIA (mm) 75 kg/m 11.3	TUBULAR STEEL DIA (mm) 90 kg/m 13.6	TUBULAR STEEL DIA (mm) 100 kg/m 16.1	TUBULAR STEEL DIA (mm) 125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	W-SHAPE STEEL FTG. SIZE 750 mm	W-SHAPE STEEL MASS	W-SHAPE STEEL POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	SIGN DETAIL STD. SHEET NUMBER
126.790 NB	BRIDGE 80-N I-91	1	150	250	0.04						1		2.44 X		~~X~~			~~X~~																VD-701	78	
127.000 NB	MILE 127	1	300	1200	0.36						1			3.66 X		~~X~~		~~X~~																D10-3		E-139
127.220 NB	EXIT 19	1	2400	750	1.80																												E1-5		E-131
	SOUTH Littleton NH 1 MILE	1	5850	3450		20.18					2																	0 ~~2~~	2 X	383.99 ~~390~~	W200X31.3		2 MODIFIED FOUDATIONS BOLT TENSION 152.2 kN SEE FOOTING DETAIL ON SHEET 3	74	
127.420 NB	TRUCK ROUTE EXIT 19 TO (2) EAST EXIT 21 (2) WEST	1	4050	2550		10.33					2																	1 ~~2~~	1 X	302.42 ~~313~~	W150X22.5		1 MODIFIED FOUNDATION BOLT TENSION 85.4 kN	74	
127.628 NB O/H	EXIT 19	1	2400	750	1.80																												E1-5		E-131
	SOUTH Littleton NH 1/2 MILE	1	4700	2700		12.69																											OVERHEAD TRAFFIC SIGN SUPPORT, CANTILEVER ON SHEET 84	74	
127.800 NB	St. Johnsbury EXITS 20, 21, 22	1	4500	1500		6.75					2												2			132.50 X								74	
127.903 NB MED		1	900	900	0.81						2			8.54 X		X		X															R3-4		E-143
127.980 NB O/H	EXIT 19	1	2400	750	1.80																												E1-5		E-131
	SOUTH Littleton NH	1	4700	2250		10.58																											OVERHEAD TRAFFIC SIGN SUPPORT, CANTILEVER ON SHEET 85	74	
128.000 NB	MILE 128	1	300	1200	0.36						1			3.66 X		~~X~~		~~X~~															D10-3		E-139
128.174 NB		1	450	450	0.20						1		2.44 X		~~X~~			~~X~~															OM-1		E-150
128.176 NB	EXIT 19	1	1800	1500		2.70					2												2	86.11 X											E-131
128.225 NB	EXIT 20	1	2400	750	1.80																												E1-5		E-131
	(5) St. Johnsbury 1/2 MILE	1	5400	2700		14.58																													
	DOWNTOWN DISTRICT	1	3750	600		2.25					2																	2		405.46 ~~379~~	W200X31.3		Bolt Tension 126.3 kN 12.954 SEE FOOTING DETAIL ON SHEET 3	75	
												m 0.0	m 5.3	m 17.4	m 5.3	m 17.4	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg ~~81.4~~ 86.11	kg 0.0	kg ~~130.5~~ 132.5	kg 0.0							
												23.2												218.61				3	3	1091.87				
	SHEET TOTALS		m2 8.97	m2 80.06	EA. 0	m2 ~~0.00~~						23.2 m ~~22.7~~			m ~~22.7~~					kg 0.0			EA. 4	kg ~~211.9~~				EA. ~~6~~	EA. ~~0~~	kg ~~1082~~				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	44 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 7

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	FLANGED CHANNEL kg/m 3.0	FLANGED CHANNEL kg/m 4.5	SQUARE STEEL (mm) 44 kg/m 3.4	SQUARE STEEL (mm) 50 kg/m 3.9	SQUARE STEEL (mm) 63 kg/m 5.0	ANCHOR	SLIP SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	TUBULAR ALUMINUM DIA (mm) 100 kg/m 2.5	TUBULAR ALUMINUM DIA (mm) 100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FNDATION	TUBULAR STEEL DIA (mm) 75 kg/m 11.3	TUBULAR STEEL DIA (mm) 90 kg/m 13.6	TUBULAR STEEL DIA (mm) 100 kg/m 16.1	TUBULAR STEEL DIA (mm) 125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	W-SHAPE STEEL FTG. SIZE 750 mm	W-SHAPE STEEL MASS	W-SHAPE STEEL POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	SIGN DETAIL STD. SHEET NUMBER
128.320 ~~128.273~~ NB	BRIDGE 81- N I-91	1	150	250	0.04		1				1		2.44 X 2.44		~~X~~			~~X~~															VD-701	78	
128.346 NB MED	ENTERING TOWN OF ST. JOHNSBURY	1	900	600	0.54						2			8.53 X		~~X~~		~~X~~															I-2		E-131
128.350 NB		1	1200	1200	1.44						2												2	90.41 X								W4-1		E-150
128.450 NB MED	ONE WAY	1	900	300	0.27						2			8.53 X		~~X~~		~~X~~															R6-1R		E-142
128.490 NB MED		1	900	900	0.81						2			8.53 X		~~X~~		~~X~~															R3-4		E-143
128.500 NB	BRIDGE ICES BEFORE ROAD	1	1200	1200	1.44						2												2	80.94 X								W8-13		E-150
128.550 NB	NEXT RIGHT	1	3600	3600		12.96					2																	2	367 ~~375~~	W200X26.6		BOLT TENSION 85.4 kN SEE FOOTING DETAIL ON SHEET 3	75	
128.670 NB	PASSUMPSIC RIVER	1	900	600	0.54						2			8.53 X		~~X~~		~~X~~															I-3		E-131
128.570 NB	BRIDGE 82- N I-91	1	150	250	0.04						1		2.44 X		~~X~~			~~X~~															VD-701	78	
128.700 NB	EXIT 20	1	2400	750	1.80																												E1-5		E-131
	5 St. Johnsbury	1	5400	2400		12.96					2																	1 2	289.94 273	W200X26.6		BOLT TENSION 85.4 kN 10.90 m	75	
128.765 NB	EXIT 30 M.P.H.	1	1200	1500	1.80						2												2	98.16 X								W13-2		E-150
128.796 NB		1	450	450	0.20						1		2.44 X		~~X~~			~~X~~															OM-1		E-150
128.800 NB	EXIT 20	1	1800	1500		2.70					2												2	97.30 X								E5-1a		E-131
128.840 NB		1	1200	1200	1.44						2												2	92.13 X								W4-1		E-150
128.890 NB MED	ONE WAY	1	900	300	0.27						2			8.53 X		~~X~~		~~X~~															R6-1R		E-142
128.908 NB	BRIDGE 83- N I-91	1	150	250	0.04						1		2.44 X		X			X															VD-701	78	
												m 0.0	m 10.4	m 42.6	m 10.4	m 42.6	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg ~~436.4~~ 458.94	kg 0.0	kg 0.0	kg 0.0							
													57.3												458.94										
	SHEET TOTALS		m2 10.67	m2 28.62	EA. ~~0~~ 1	m2 ~~0.00~~							m ~~53.0~~			m ~~53.0~~					kg 0.0		EA. 10		kg ~~436.4~~	EA. 4	EA. 0	kg ~~656.94~~ 648						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	45 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 8

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 1.7	50 3.4	63 3.9	5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) kg/m 75 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) kg/m FND-ATION	75 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
SOUTHBOUND 111.460 SB	BRIDGE 68 I-91	1	150	250	0.04						1		2.44 X		X			X																VD-701	78	
112.000 SB	MILE 1 1 2	1	300	1200	0.36						1			4.27 X		X		X																D10-3		E-139
112.161 SB MED		1	900	900	0.81						2			8.53 X		X		X																R3-4		E-143
112.563 SB TO 128.204 SB	BRIDGE XX-N I-91	9	150	250	0.36						9		27.45 X		X			X																VD-701 NOT SHOWN ON PLANS.	78	
112.909 SB MED		1	900	900	0.81						2			8.53 X		X		X																R3-4		E-143
113.000 SB	MILE 1 1 3	1	300	1200	0.36						1			4.27 X		X		X																D10-3		E-139
113.145 SB	BRIDGE 69-S I-91	1	150	250	0.04						1		2.44 X		X			X																VD-701	78	
113.330 SB	EMERGENCY VEHICLE ENTRANCE	1	1200	1200	1.44																													VW-544	77	
	1500 FEET	1	600	450	0.27						2													2	98.16 X								W16-2		
114.000 SB	MILE 1 1 4	1	300	1200	0.36						1			4.27 X		X		X																D10-3		E-139
115.000 SB	MILE 1 1 5	1	300	1200	0.36						1			4.27 X		~~X~~		~~X~~																D10-3		E-139
115.295 SB MED	ONE WAY	1	900	300	0.27						2			8.53 X		~~X~~		~~X~~																R6-1R		E-142
115.400 SB		1	1200	1200	1.44						2													2	91.27 X								W4-1		E-150
115.505 SB	PARKING AREA	1	2250	1950		4.39					2													2		127.47 X									72	
115.508 SB		1	450	450	0.20						1		2.44 X		X			X																OM-1		E-150
												m 0.0	m ~~31.3~~ 32.3	m ~~41.8~~ 42.67	m 31.3	m 41.8	m 0.0	EA. 0			kg 0.0	kg 0.0	kg 0.0		kg ~~177.5~~ 189.43	kg ~~110.2~~ 127.47	kg 0.0	kg 0.0							
												75.0													316.9										
	SHEET TOTALS	m2 7.12	m2 4.39	EA. 0	m2 0.00							m ~~73.1~~			m ~~73.1~~						kg 0.0			EA. 6	kg ~~287.7~~			EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	46 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 9

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	FLANGED CHANNEL kg/m 3.0	FLANGED CHANNEL kg/m 4.5	SQUARE STEEL (mm) 44 kg/m 3.4	SQUARE STEEL (mm) 50 kg/m 3.9	SQUARE STEEL (mm) 63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	TUBULAR ALUMINUM DIA (mm) 100 kg/m 2.5	TUBULAR ALUMINUM DIA (mm) 100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FNDATION	TUBULAR STEEL DIA (mm) 75 kg/m 11.3	TUBULAR STEEL DIA (mm) 90 kg/m 13.6	TUBULAR STEEL DIA (mm) 100 kg/m 16.1	TUBULAR STEEL DIA (mm) 125 kg/m 21.8	W-SHAPE STEEL FTG SIZE 600 mm	W-SHAPE STEEL FTG SIZE 750 mm	W-SHAPE STEEL MASS	W-SHAPE STEEL POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	SIGN DETAIL STD. SHEET NUMBER
115.584 SB	RAMP 30 M.P.H.	1	1200	1500	1.80						2												2	98.16 X									W13-3		E-150
115.700 SB	PARKING AREA NEXT RIGHT	1	3600	1350		4.86					2												2			149.67 X								72	
115.702 SB MED		1	900	900	0.81						2			8.53 X		X		X															R3-4		E-143
116.000 SB	MILE 116	1	300	1200	0.36						1			4.27 X		X		X															D10-3		E-139
116.430 SB	PARKING AREA 1 MILE	1	3600	1350		4.86					2												2		103.63 X								D5-3	72	
117.000 SB	MILE 117	1	300	1200	0.36						1			4.27 X		X		X															D10-3		E-139
117.230 SB	ENTERING TOWN OF RYEGATE	1	900	600	0.54						2			9.15 X		X		X															I-2		E-131
117.942 SB MED		1	900	900	0.81						2			9.76 X		X		X															R3-4		E-143
118.000 SB	MILE 118	1	300	1200	0.36						1			3.66 X		X		X															D10-3		E-139
118.236 SB 118.33 SB	BRIDGE 70-S I-91 / BRIDGE 70-3 S I-91	1	150	250	0.04		1				1		2.44 X 2.44		X			X															VD-701	78	
119.000 SB	MILE 119	1	300	1200	0.36						1			3.66 X		X		X															D10-3		E-139
119.350 SB	KEEP RIGHT EXCEPT TO PASS	1	1200	1500	1.80						2												2	101.61 X									VR-132	77	
119.603 SB	Wells River 12 / White River Jct 50	1	3600	900		3.24					2												2		93.27 X								E-7	75	
119.802 SB MED		1	900	900	0.81						2			9.76 X		X		X															R3-4		E-143
119.860 SB	SPEED LIMIT 65	1	1200	1500	1.80																												R2-1		E-142
	MINIMUM 40	1	1200	1200	1.44						2												2	125.71 X									VR-141		E-142
116.22 SB	BRIDGE 69.9 I-91						1						2.44 X																						
							2					m 0.0	m ~~2.6~~ 7.32	m ~~51.4~~ 53.06	m 2.6	m 51.4	m 0.0	EA. 0		kg 0.0	kg 0.0	kg 0.0		kg ~~313.1~~ 325.48	kg ~~225.0~~ 196.9	kg ~~158.6~~ 147.67	kg 0.0								
												60.38												672.05											
	SHEET TOTALS	m2 11.29	m2 12.96	EA. ~~0~~	m2 ~~0.00~~							60.4 m ~~54.0~~			m ~~54.0~~					kg 0.0			EA. 12	kg ~~696.7~~				EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

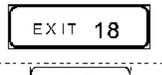
PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	fsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	47 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 10

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FNDATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
119.955 SB		1	1200	1200	1.44																													VW-397	77	
		1	600	450	0.27						2												2	96.43 X									VP-396	77	
120.000 SB		1	300	1200	0.36						1			4.27 X		~~X~~		~~X~~															D10-3		E-139
120.049 SB		1	750	375	0.28																													M3-3		E-135
		1	900	900	0.81																													M1-1		E-135
		1	900	900	0.81						1												1	57.69 X									M1-10		E-135
120.125 SB		1	1200	900	1.08						2									20.00 X													R8-7	17' 6" 16' 6"	E-142
120.280 SB MED		1	900	300	0.27						2			8.53 X		~~X~~		~~X~~															R6-1R		E-142
120.363 SB		1	1200	1200	1.44						2												2	91.27 X									W4-1		E-150
120.470 SB		1	150	250	0.04						1			2.44 X		X		X															VD-701	78	
120.590 SB		1	1800	1500		2.70					2												2	86.11 X									E5-1a		E-131
120.595 SB		1	450	450	0.20						1			2.44 X		X		X															OM-1		E-150
120.660 SB		1	150	250	0.04						1			2.44 X		X		X															VD-701	78	
120.670 SB		1	1200	1500	1.80						2												2	102.47 X									W13-2		E-150
120.700 SB		1	2400	750	1.80																													E1-5		E-131
		1	4650	3000		13.95					2																	6.325 2 5.182		306.06 ~~341~~	W200X26.6		BOLT TENSION 100.6 kN SEE FOOTING DETAIL ON SHEET 3	20.75 17.0	73	
120.736 SB		1	150	250	0.04						1			2.44 X		~~X~~		~~X~~															VD-701	78	
												m 0.0	m 10.5 ~~9.76~~	m ~~12.2~~ 12.8	m 10.5	m 12.2	m 0.0		EA. 0	kg ~~22.8~~ 20.00	kg 0.0	kg 0.0		kg 414.9	kg 0.0	kg 0.0	kg 0.0								
													22.6												433.97										
SHEET TOTALS		m2 10.68	m2 16.65	EA. 0	m2 0.00							m ~~22.7~~			m ~~22.7~~					20.00 kg ~~22.8~~			EA. 9	434 kg ~~414.9~~				EA. 2	EA. 0	~~306.06~~ kg ~~341~~					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	fsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	48 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 11

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 3.9	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
120.940 SB	NEXT RIGHT	1	3600	3600		12.96					2																	2		~~358.75~~ 343	W200X26.6			Bolt Tension 85.4 kN 13.487m X 26.6 =	73	
121.000 SB	MILE 1 2 1	1	300	1200	0.36						1			3.66 X		~~X~~		~~X~~															D10-3		E-139
121.118 SB	BRIDGE 74-S I-91	1	150	250	0.04						1		2.44 X		~~X~~			~~X~~															VD-701	78	
121.200 SB	EXIT 18	1	2400	750	1.80																												E1-5		E-131
	TO (5) Barnet Peacham 1/2 MILE	1	3600	3450		12.42																												75	
	NEXT EXIT 10 MILES	1	2400	1200		2.88					2																	2		~~477.01~~ 454	W200X31.3			E2-1a Bolt Tension 126.3 kN POSTS 15.24m		E-131
121.254 SB MED		1	900	900	0.81						2			8.54 X		X		X															R3-4		E-143
121.450 SB	McIndoe Falls East Ryegate EXIT 18	1	4350	2250		9.79					2																	2		~~291.46~~ 305	W150X22.5			Bolt Tension 85.4 kN 12.954m	76	
121.700 SB	EXIT 18	1	2400	750	1.80																												E1-5		E-131
	TO (5) Barnet Peacham 1 MILE	1	3600	3600		12.96					2																	2		~~324.31~~ 318	W200X26.6			Bolt Tension 108.8 kN 12.192m	72	
122.000 SB	MILE 1 2 2	1	300	1200	0.36						1			4.27 X		~~X~~		~~X~~															D10-3		E-139
125.000 SB		1	900	900	0.81						2			9.76 X																					
												m 0.0	m ~~2.6~~ 2.44	m ~~17.4~~ 26.23	m 2.6	m 17.4	m 0.0	EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0							
	SHEET TOTALS				~~5.17~~ 5.98	51.01	0	~~0.00~~				~~20.0~~ m			~~20.0~~ m					0.0 kg	0 EA.	0.0 kg					8 EA.	0 EA.	~~1420~~ 1451.53 kg					

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PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	49 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 12

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 3.4	50 3.9	63 5.0	ALUM	STEEL	TUBULAR ALUMINUM DIA (mm) kg/m 75 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FNDATION	kg/m 75 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
122.080 SB	BRIDGE 75-S I-91	1	150	250	0.04						1		2.44 X		~~X~~			~~X~~															VD-701	78	
122.607 SB	BRIDGE 76-S I-91	1	150	250	0.04						1		2.44 X		~~X~~			~~X~~															VD-701	78	
122.790 SB MED		1	900	900	0.81						2			8.53 X		X		X														R3-4		E-143
123.000 SB	MILE 1 2 3	1	300	1200	0.36						1			3.66 X		X		X														D10-3		E-139
123.293 SB	BRIDGE 77-S I-91	1	150	250	0.04						1		2.44 X		X			X														VD-701	78	
123.306 SB	PASSUMPSIC RIVER	1	900	600	0.54						2			8.53 X		~~X~~		~~X~~														I-3	POST 14' 0" 4.27m 14' 0" 4.27m		E-131
123.447 SB	BRIDGE 78-S I-91	1	150	250	0.04						1		2.44 X		X			X														VD-701	78	
123.450 SB	MOOSE ICE BEFORE ROAD	1	1200	1200	1.44						2									21.04 X													17' 6" 18' 3"	77	
124.000 SB	MILE 1 2 4	1	300	1200	0.36						1			4.27 X		X		X														D10-3		E-139
124.220 SB	BRIDGE 79 I-91	1	150	250	0.04						1		2.44 X		~~X~~			~~X~~														VD-701	78	
125.000 SB	MILE 1 2 5	1	300	1200	0.36						1			3.66 X		~~X~~		~~X~~														D10-3		E-139
125.477 SB MED		1	900	900	0.81						2			8.53 X		X		X														R3-4		E-143
126.000 SB	MILE 1 2 6	1	300	1200	0.36						1			3.66 X		~~X~~		~~X~~														D10-3		E-139
126.769 SB	BRIDGE 80-S I-91	1	150	250	0.04						1		2.44 X		~~X~~			~~X~~														VD-701	78	
126.780 SB	ENTERING TOWN OF BARNET	1	900	600	0.54						2			9.54 X		~~X~~		~~X~~														I-2		E-131
126.945 SB	KEEP RIGHT EXCEPT TO PASS	1	1200	1500	1.80						2									20.88 X													VR-132 17' 6" 18' 0"	77	
												m 0.0	m ~~16.6~~ 20.7	m ~~55.8~~ 46.72	m 15.6	m 55.8	m 0.0		EA. 0	kg ~~48.3~~ 41.92	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0								
												67.5																							
	SHEET TOTALS		m2 7.62	m2 0.00	EA. 0	m2 0.00						m ~~71.4~~			m ~~71.4~~					41.92 kg ~~48.3~~		EA. 0	kg 0.0				EA. 0	EA. 0	kg 0					

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PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	50 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 13

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 3.4	50 3.9	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) kg/m 75 1.93	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FND-ATION	kg/m 75 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
127.000 SB	MILE 1 2 7	1	300	1200	0.36						1			3.66 X		~~X~~		~~X~~															D10-3		E-139
127.195 SB	Barnet 8 White River Jct 58	1	3600	900		3.24					2												2		119.18 X							E7	76	
127.507 SB	SPEED LIMIT 65	1	1200	1500	1.80																											R2-1		E-142
	MINIMUM 40	1	1200	1200	1.44						2												2	131.75 X							VR-141		E-142
127.602 SB		1	1200	1200	1.44																											VW-397	77	
	GROOVED SHOULDER	1	600	450	0.27						2									22.06 X												VP-396 18' 19' 6"	77	
127.696 SB	SOUTH	1	750	375	0.28																											M3-3		E-135
	INTERSTATE 91	1	900	900	0.81																											M1-1		E-135
	EASTBOUND INTERSTATE SYSTEM	1	900	900	0.81						1												1	56.83 X								M1-10		E-135
127.772 SB	EMERGENCY STOPPING ONLY	1	1200	900	1.08						2									19.42 X												R8-7 16' 17'		E-142
127.925 SB MED		1	900	900	0.81						2			8.53 X		~~X~~		~~X~~														R3-4		E-143
128.000 SB	MILE 1 2 8	1	300	1200	0.36						1			4.27 X		~~X~~		~~X~~														D10-3		E-139
128.029 SB MED	ONE WAY	1	900	300	0.27						2			8.53 X		~~X~~		~~X~~														R6-1R		E-142
128.125 SB		1	1200	1200	1.44						2												2	94.72 X							W4-1		E-150
128.325 SB	BRIDGE 81-S I-91	1	150	250	0.04						1			2.44 X		~~X~~		~~X~~														VD-701	78	
128.346 SB	ENTERING TOWN OF WATERFORD	1	900	600	0.54						2			8.54 X		~~X~~		~~X~~														I-2		E-131
I28.27 RT	BRIDGE PLAQUE						1							2.44 X																					
												m 0.0	m ~~2.6~~ 4.88	m ~~36.5~~ 35.5	m 2.6	m 36.5	m 0.0		EA. 0	kg ~~47.0~~ 41.48	kg 0.0	kg 0.0		kg ~~278.1~~ 283.3	kg ~~126.5~~ 119.19	kg 0.0	kg 0.0								
												38.4								41.48				402.49											
	SHEET TOTALS	m2 11.75	m2 3.24	EA. ~~0~~ 1	m2 0.00		m ~~39.1~~		m ~~39.1~~		kg ~~47.0~~	EA. 7	kg ~~404.6~~		EA. 0	EA. 0	kg 0																			

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD.
POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	tsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	51 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 14

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FNDATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
128.510 SB	EXIT 19	1	1800	1500		2.70 2.70					2												2	93.00 X									E5-1a SIGN DESTROYED IN AN ACCIDENT REPLACED WITH NEW SIGN		E-131
128.510 SB MED		1	900	900	0.81						2			8.53 X		X		X															R3-4		E-143
128.516 SB		1	450	450	0.20						1		2.44 X		X			X															OM-1		E-150
128.209													2.44 X																						
128.695 SB	BRIDGE 82-S I-91	1	150	250	0.04						1		2.44 X		X			X															VD-701	78	
128.700 SB	PASSUMPSIC RIVER	1	900	600	0.54						2			8.53 X		~~X~~		~~X~~															I-3 2 - 14' POSTS		E-131
128.700 SB O/H	EXIT 19	1	2400	750	1.80																												E1-5		E-131
	SOUTH White River Jct / SOUTH Littleton NH EXIT ONLY	1 1	6000 4700	3000 3000		18.00 14.10																											OVERHEAD TRAFFIC SIGN SUPPORT, MULTI - SUPPORT ON SHEET 86	76	
128.760 SB	BRIDGE ICES BEFORE ROAD	1	1200	1200	1.44						2									18.97 X													W8-13 16' 0" 16' 3"		E-150
128.810 SB	TRUCK ROUTE 2 EAST EXIT 19	1	3000	2550		7.65					2																		2		255.11 252	W150X18		Bolt Tension 53.4 kN 14.173 m	76	
128.930 SB	BRIDGE 83-S I-91	1	150	250	0.04						1		2.44 X		X			X															VD-701	78	
128.960 SB MED	ONE WAY	1	900	300	0.27						2			8.53 X		X		X															R6-1R		E-142
											m 0.0	m ~~7.9~~ 9.8	m ~~28.5~~ 25.59	m 7.9	m 28.5	m 0.0		EA. 0		kg 23.6 18.97	kg 0.0	kg 0.0		kg 81.4 93.00	kg 0.0	kg 0.0	kg 0.0							
											35.4										19.0				93.00										
						45.15																								255.11						
	SHEET TOTALS		m2 5.14			m2 ~~42.45~~	EA. 0	m2 ~~0.00~~			m ~~36.4~~				m ~~36.4~~					kg ~~23.6~~			EA. 2	kg 93.00 ~~81.4~~				EA. 2	EA. 0	kg ~~252~~					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	fsssRyegate.xls	PLOT DATE:	12/12/08
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	52 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 15

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS: FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 3.4	50 3.9	63 5.0	ANCHOR	SLIP SLEEVE	TUBULAR ALUMINUM DIA (mm) kg/m 75 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FND-ATION	kg/m 75 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
PARK AREA 113.39 NB																																			
0.050 RAMP A LT	WRONG WAY	1	900	600	0.54						2			8.54 X		~~X~~		~~X~~																R5-1a		E-143
0.050 RAMP A RT	WRONG WAY	1	900	600	0.54						2			8.54 X		~~X~~		~~X~~																R5-1a		E-143
0.062 RAMP A LT	DO NOT ENTER	1	750	750	0.56						1			4.27 X		~~X~~		~~X~~																R5-1		E-143
0.062 RAMP A RT	DO NOT ENTER	1	750	750	0.56						1			4.27 X		~~X~~		~~X~~																R5-1		E-143
0.085 RAMP A LT	CARS	1	600	600	0.36																												VD-10R	77	
	TRUCKS BUSES	1	600	750	0.45						1			4.88 X		~~X~~		~~X~~																VD-239L	77	
0.127 RAMP A RT	PROHIBITED OVERNIGHT CAMPING UNATTENDED VEHICLES COMMERCIAL ENTERPRISES	1	750	600	0.45						1			4.27 X		~~X~~		~~X~~																VR-032		E-144
0.175 RAMP A RT	PROHIBITED	1	600	900	0.54																												VR-278		E-144
	ALL DOGS MUST BE ON LEASH	1	600	600	0.36						1			4.88 X		~~X~~		~~X~~																VR-648		E-144
0.215 RAMP A RT	ONE WAY	1	900	300	0.27						2			8.54 X		~~X~~		~~X~~																R6-1L		E-142
0.240 RAMP A RT	ONE WAY	1	900	300	0.27						2			8.54 X		~~X~~		~~X~~																R6-1L		E-142
0.245 RAMP A LT	ONE WAY	1	900	300	0.27						2			8.54 X		X		X																R6-1R		E-142
0.250 RAMP A RT	SAFETY BELTS REQUIRED	1	600	750	0.45						1			4.27 X		X		X																	77	
0.260 RAMP A RT		1	600	600	0.36						1			4.27 X		X		X																R3-2		E-143
0.035 RAMP B RT	PROHIBITED OVERNIGHT CAMPING UNATTENDED VEHICLES COMMERCIAL ENTERPRISES	1	750	600	0.45						1			4.27 X		~~X~~		~~X~~																VR-032		E-144
0.060 RAMP B RT	PROHIBITED	1	600	900	0.54																												VR-278		E-144
	ALL DOGS MUST BE ON LEASH	1	600	600	0.36						1			4.88 X		~~X~~		~~X~~																VR-648		E-144
												m 0.0	m 0.0	m 73.4	m 0.0	m 73.4	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0								
														83.0																						
	SHEET TOTALS	m2 7.33	m2 0.00	EA. 0	m2 0.00									m ~~73.4~~			m ~~73.4~~			kg 0.0			EA. 0	kg 0.0				EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	tsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	53 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 16

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
PARK AREA 113.39 NB 0.100 RAMP B RT	PROHIBITED	1	600	900	0.54																													VR-278		E-144
	ALL DOGS MUST BE ON LEASH	1	600	600	0.36						1			4.88 X		~~X~~		~~X~~																VR-648		E-144
0.135 RAMP B RT	ONE WAY	1	900	300	0.27						2			8.54 X		~~X~~		~~X~~																R6-1L		E-142
0.155 RAMP B RT	YIELD	1			0.35																												R1-2 900X900X900		E-146
		1	600	600	0.36						1			4.88 X		~~X~~		~~X~~																R3-1		E-143
0.160 RAMP B LT	DO NOT ENTER	1	750	750	0.56						1			4.27 X		~~X~~		~~X~~																R5-1		E-143
0.160 RAMP B RT	DO NOT ENTER	1	750	750	0.56						1			4.88 X		~~X~~		~~X~~																R5-1		E-143
0.0	BRIDGE 80-2						1																										27.45		
PARK AREA 115.40 SB 0.068 RAMP A LT	WRONG WAY	1	900	600	0.54						2			8.54 X		X		X																R5-1a		E-143
0.068 RAMP A RT	WRONG WAY	1	900	600	0.54						2			8.54 X		~~X~~		~~X~~																R5-1a		E-143
0.078 RAMP A LT	DO NOT ENTER	1	750	750	0.56						1			4.27 X		~~X~~		~~X~~																R5-1		E-143
0.078 RAMP A RT	DO NOT ENTER	1	750	750	0.56						1			4.27 X		~~X~~		~~X~~																R5-1		E-143
0.100 RAMP A LT	CARS	1	600	600	0.36																												VD-10R	77	
	TRUCKS BUSES	1	600	750	0.45						1			4.88 X		~~X~~		~~X~~																VD-239R	77	
0.130 RAMP A RT	PROHIBITED OVERNIGHT CAMPING UNATTENDED VEHICLES COMMERCIAL ENTERPRISES	1	750	600	0.45						1			4.27 X		~~X~~		~~X~~																VR-032		E-144
0.180 RAMP A RT	PROHIBITED	1	600	900	0.54																												VR-278		E-144
	ALL DOGS MUST BE ON LEASH	1	600	600	0.36						1			4.88 X		~~X~~		~~X~~																VR-648		E-144
												m 0.0	m 0.0	m ~~60.6~~ 67.1	m 0.0	m 60.6	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0								
							1					67.1																								
	SHEET TOTALS	m2 7.36	m2 0.00	EA. ~~0~~ 1	m2 0.00		m ~~60.6~~ 67.1		m ~~60.6~~ 67.1		EA. 0	kg 0.0		EA. 0	kg 0.0		EA. 0	EA. 0	kg 0																		

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	tsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	54 OF 86

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 17

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 3.4	50 3.9	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) kg/m 75 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) kg/m FND-ATION	75 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
PARK AREA 115.40 SB																																			
0.215 RAMP A RT	ONE WAY	1	900	300	0.27						2			8.54 X		~~X~~		~~X~~															R6-1L		E-142
0.260 RAMP A RT	ONE WAY	1	900	300	0.27						2			8.54 X		~~X~~		~~X~~															R6-1L		E-142
0.275 RAMP A RT	SAFETY BELTS REQUIRED	1	600	750	0.45						1			4.27 X		~~X~~		~~X~~																77	
0.296 RAMP A RT		1	600	600	0.36						1			X		~~X~~		~~X~~															R3-2		E-143
0.030 RAMP B RT	PROHIBITED OVERNIGHT CAMPING UNATTENDED VEHICLES COMMERCIAL ENTERPRISES	1	750	600	0.45						1			4.27 X		~~X~~		~~X~~															VR-032		E-144
0.090 RAMP B RT	PROHIBITED ...	1	600	900	0.54																												VR-278		E-144
	ALL DOGS MUST BE ON LEASH	1	600	600	0.36						1			4.88 X		~~X~~		~~X~~															VR-648		E-144
0.120 RAMP B RT	ONE WAY	1	900	300	0.27						2			8.54 X		~~X~~		~~X~~															R6-1L		E-142
0.134 RAMP B RT	YIELD	1			0.35																											R1-2 900X900X900		E-146
		1	600	600	0.36						1			4.88 X		~~X~~		~~X~~															R3-1		E-143
0.144 RAMP B LT	DO NOT ENTER	1	750	750	0.56						1			4.27 X		~~X~~		~~X~~															R5-1		E-143
0.144 RAMP B RT	DO NOT ENTER	1	750	750	0.56						1			4.27 X		~~X~~		~~X~~															R5-1		E-143
											m 0.0	m 0.0	m ~~49.7~~ 52.5	m 0.0	m 49.7	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0							
											52.5																								
	SHEET TOTALS		m2 4.80	m2 0.00	EA. 0	m2 0.00					m ~~49.7~~				m ~~49.7~~				kg 0.0			EA. 0	kg 0.0				EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	55 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 18

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT.#18 0.022 RAMP A RT	PROHIBITED	1	900	900	0.81																												VR-046		E-142
	TURN SIGNAL REQUIRED BEFORE CHANGING LANES	1	900	900	0.81						2												2	97.3 X								VR-002		E-142
0.218 RAMP A RT		1	600	600	0.36						1			4.27 X		~~X~~		~~X~~														R3-2		E-143
0.077 RAMP B RT		1	900	900	0.81						1			4.88 X		~~X~~		~~X~~														W3-1a		E-150
0.115 RAMP B RT	TO	1	600	300	0.18																											M4-5		E-136A
	5	1	600	600	0.36																											M1-4		E-136A
		1	525	375	0.20						1			4.27 X		X		X														M6-1		E-136A
0.153 RAMP B RT	BARNET 1	1	1800	300	0.54																											D1-1a		E-123
	MCINDOE FALLS 3	1	1800	300	0.54																											D1-1a		E-123
	E. RYEGATE 7	1	1800	300	0.54																											D1-1a		E-123
	WEST BARNET 5	1	1800	300	0.54																											D1-1a		E-123
	PEACHAM 7	1	1800	300	0.54						2												2	93.0 X								D1-1a		E-123
0.181 RAMP B LT	WRONG WAY	1	900	600	0.54																											R5-1a		E-143
		1	600	600	0.36						2			9.76 X		~~X~~		~~X~~														R9-4a		E-143
0.181 RAMP B RT	GAS 4 WRONG WAY	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26																											VD-502G BACK TO BACK		E-133
		1	900	600	0.54																											R5-1a		E-143
	LODGING	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26																											VD-502L		E-133
	5 CAMPING 5	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26						2									16.77 X												VD-502C 14' 0" 14' 6"		E-133
					8.45							m 0.0	m 0.0	m ~~23.9~~ 23.2	m 0.0	m 23.9	m 0.0		EA. 0	kg ~~20.6~~ 16.77	kg 0.0	kg 0.0		kg ~~197.8~~ 190.3	kg 0.0	kg 0.0	kg 0.0								
												23.2								16.77				190.3											
	SHEET TOTALS				m2 ~~9.02~~	m2 0.00	EA. 0	m2 ~~0.00~~				m ~~23.9~~			m ~~23.9~~					kg ~~20.6~~			EA. 4	kg ~~197.8~~				EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	tsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	56 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 19

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHRAN	SILVL	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT.#18		1	750	750	0.56																													R1-1		E-143
0.226 RAMP B LT	STOP DO NOT ENTER																																	BACK TO BACK		
		1	750	750	0.56																													R5-1		E-143
	ONE WAY ONE WAY	1	900	300	0.27									4.27																				R6-1L		E-142
											1			X		~~X~~		~~X~~															BACK TO BACK		
		1	900	300	0.27																													R6-1R		E-142
0.226 RAMP B RT	STOP DO NOT ENTER	1	750	750	0.56																													R1-1		E-143
																																		BACK TO BACK		
		1	750	750	0.56																													R5-1		E-143
	ONE WAY ONE WAY	1	900	300	0.27									4.27																				R6-1L		E-142
											1			X		~~X~~		~~X~~															BACK TO BACK		
		1	900	300	0.27																													R6-1R		E-142
0.022 RAMP C RT	PROHIBITED	1	900	900	0.81																													VR-046		E-142
	TURN SIGNAL REQUIRED BEFORE CHANGING LANES	1	900	900	0.81						2									22.95 X														VR-002		E-142
0.150 RAMP C RT		1	600	600	0.36						1			4.88 X		~~X~~		~~X~~																R3-2		E-143
0.098 RAMP D RT		1	900	900	0.81						1			4.88 X		~~X~~		~~X~~																W3-1a		E-150
0.136 RAMP D RT	TO	1	600	300	0.18																													M4-5		E-136A
	5	1	600	600	0.36																													M1-4		E-136A
		1	525	375	0.20						1			4.88 X		~~X~~		~~X~~																M6-1		E-136A
0.174 RAMP D RT	WEST BARNET 5	1	1800	300	0.54																													D1-1a		E-123
	PEACHAM 7	1	1800	300	0.54						~~2~~			~~X~~		~~X~~		~~X~~																D1-1a SIGNS ALL ON 2 TUBULAR STEEL POSTS		E-123
	BARNET 1	1	1800	300	0.54																													D1-1a		E-123
	MONROE NH 3	1	1800	300	0.54																													D1-1a		E-123
	MCINDOE FALLS 3	1	1800	300	0.54						2													2	101.59 X									D1-1a		E-123
												m 0.0	m 0.0	m ~~32.0~~ 23.18	m 0.0	m 32.0	m 0.0		EA. 0	kg ~~23.2~~ 22.95	kg 0.0	kg 0.0		kg ~~90.4~~ 101.59	kg 0.0	kg 0.0	kg 0.0								
												23.18																								
	SHEET TOTALS	m2 9.55	m2 0.00	EA. 0	m2 ~~0.00~~							m ~~32.0~~			m ~~32.0~~					22.95 kg ~~23.2~~			EA. 2	101.59 kg ~~90.4~~				EA. 0	EA. 0	kg 0						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	tsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	57 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 20

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHOR	SLELVL	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
0.212 RAMP D RT	← 4 GAS / WRONG WAY	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26																												VD-502G BACK TO BACK		E-133
		1	900	600	0.54																												R5-1a		E-143
	LODGING →	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26																												VD-502L		E-133
	←5 CAMPING 5 →	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26						2									17.64 X													VD-502C 14' 6" 15' 6"		E-133
0.212 RAMP D LT	WRONG WAY	1	900	600	0.54																												R5-1a		E-143
		1	600	600	0.36						2			9.15 X		~~X~~		~~X~~															R9-4a		E-143
INT.#18 0.258 RAMP D LT	STOP / DO NOT ENTER	1	750	750	0.56																												R1-1		E-143
		1	750	750	0.56																												R5-1		E-143
	ONE WAY / ONE WAY	1	900	300	0.27						1			4.27 X		~~X~~		~~X~~															R6-1L		E-142
		1	900	300	0.27																												R6-1R		E-142
0.258 RAMP D RT	STOP / DO NOT ENTER	1	750	750	0.56																												R1-1		E-143
		1	750	750	0.56																												R5-1		E-143
	ONE WAY / ONE WAY	1	900	300	0.27						1			4.27 X		~~X~~		~~X~~															R6-1L BACK TO BACK		E-142
		1	900	300	0.27																												R6-1R		E-142
																																	BACK TO BACK		
0.000 BSH LT	STATE HIGHWAY BEGINS / STATE HIGHWAY ENDS	1	600	450	0.27																												VR-039 BACK TO BACK		E-141
		1	600	450	0.27																												VR-038		E-141
	THROUGH WAY BEGINS HERE / THROUGH WAY ENDS HERE	1	600	600	0.36						1			4.27 X		~~X~~		~~X~~															VR-041 BACK TO BACK		E-141
		1	600	600	0.36																												VR-040		E-141
0.000 BSH RT	JCT	1	525	375	0.20		I																										M2-1 SIGN KNOCKED DOWN BY PLOW REINSTALLED WITH NEW POST		E-135
	91	1	600	600	0.36		I				1			4.27 X 4.27		~~X~~		~~X~~															M1-1		E-135
0.066 BSH LT	W. BARNET 5	1	1800	300	0.54																												D2-1		E-123
	PEACHAM 7	1	1800	300	0.54						2			9.75 X		~~X~~		~~X~~															D2-1		E-123
					8.44		2					m 0.0	m 0.0	m ~~34.7~~ 36.0	m 0.0	m 34.7	m 0.0		EA. 0	kg ~~20.6~~ 17.64	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0								
	SHEET TOTALS				m2 ~~9.01~~	m2 0.00	EA. ~~0~~	m2 ~~0.00~~				m ~~34.7~~			m ~~34.7~~					17.64 kg ~~20.6~~			EA. 0	kg 0.0				EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	fsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	58 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 21

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 50 63 kg/m 3.4	3.9	5.0	ANCHOR	SLIP BASE	TUBULAR ALUMINUM DIA (mm) 75 100 100MD kg/m 1.9	2.5	2.5	TUBULAR STEEL DIA (mm) FNDATION	75	90	100	125 kg/m 11.3	13.6	16.1	21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT.#18																																							
0.066 BSH RT	ST. JOHNSBURY 10	1	1800	300	0.54																																D1-1a		E-123
	WELLS RIVER 13	1	1800	300	0.54						2			9.15 X		~~X~~		~~X~~																			D1-1a		E-123
0.114 ~~0.103~~ BSH RT	TO NORTH SOUTH	1	600	300	~~0.18~~	0.36																															M4-5		E-136A
		1	600	300	~~0.18~~	0.36																															M3-1		E-135
		1	600	300	~~0.18~~	0.36																															M3-3		E-135
	5 I-91 I-91	1	600	600	~~0.36~~	0.72																															M1-4		E-136A
		1	600	600	~~0.36~~	0.72																															M1-1		E-135
		1	600	600	~~0.36~~	0.72																															M1-1		E-135
		1	525	375	~~0.20~~	0.40																															M6-3		E-136A
		1	525	375	~~0.20~~	0.40					2												2	94.72 X										#3	M6-3		E-135
		1	525	375	~~0.20~~	0.40																															M6-1		E-135
0.103 BSH RT	TO	1	600	300	0.18		I																													M4-5		E-136A
	5	1	600	600	0.36		I																													M1-4		E-136A
		1	525	375	0.20		I				1			4.88 X		~~X~~		~~X~~																			M6-1		E-136A
0.103 BSH RT	SOUTH	1	600	300	0.18																																M3-3		E-135
	I-91	1	600	600	0.36																																M1-1		E-135
		1	525	375	0.20						1			4.88 X		~~X~~		~~X~~																			M6-1		E-135
0.113 BSH LT	SOUTH	1	600	300	0.18																																M3-3		E-135
	I-91	1	600	600	0.36																																M1-1		E-135
		1	525	375	0.20						1			4.88 X		~~X~~		~~X~~																			M6-1		E-135
0.151 BSH LT	WELLS RIVER 13	1	1800	300	0.54						2			8.54 X		~~X~~		~~X~~																			D1-1a		E-123
					8.28		3				m 0.0	m 0.0	m ~~29.8~~ 32.3		m 0.0	m 29.8	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg ~~82.5~~ 94.72	kg 0.0	kg 0.0	kg 0.0					EA.	EA.	kg				
											32.3																												
	SHEET TOTALS				m2 ~~6.06~~	m2 0.00	EA. ~~0~~	m2 ~~0.00~~			m ~~29.8~~				m ~~29.8~~					kg 0.0			EA. 2	94.72 kg ~~82.5~~				EA. 0	EA. 0	kg 0				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

NEW SIGNS WERE STOLEN AFTER AN ACCIDENT
NEW ONES ORDERED & INSTALLED

MOVED TO 0.114 RT

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	59 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 22

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 3.9	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 100 100MD kg/m 1.9	2.5	2.5	TUBULAR STEEL DIA (mm) FND-ATION	75	90	100	125 kg/m 11.3	13.6	16.1	21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT.#18 0.207 BSH RT	ST. JOHNSBURY 10	1	1800	300	0.54						2			9.15 X		~~X~~		~~X~~																		D1-1a		E-123
0.245 BSH RT	NORTH	1	600	300	0.18		I																													M3-1 SIGN KNOCKED DOWN BY PLOWS. REINSTALLED		E-135
	INTERSTATE 91	1	600	600	0.36		I																													M1-1		E-135
	←	1	525	375	0.20		I				1			4.88 X		~~X~~		~~X~~																		M6-1		E-135
0.252 BSH LT	NORTH	1	600	300	0.18																															M3-1		E-135
	INTERSTATE 91	1	600	600	0.36																															M1-1		E-135
	←	1	525	375	0.20						1			4.27 X		~~X~~		~~X~~																		M6-1		E-135
0.252 BSH LT	TO	1	600	300	0.18																															M4-5		E-136A
	5	1	600	600	0.36																															M1-4		E-136A
	→	1	525	375	0.20						1			4.27 X		~~X~~		~~X~~																		M6-1		E-136A
0.252 BSH LT	SOUTH NORTH	1	600	300	0.18																															M3-3		E-135
		1	600	300	0.18																															M3-1		E-135
	INTERSTATE 91 INTERSTATE 91	1	600	600	0.36																															M1-1		E-135
		1	600	600	0.36																															M1-1		E-135
	↑ →	1	525	375	0.20						2			9.76 X		~~X~~		~~X~~																	#2	M6-3		E-135
		1	525	375	0.20																															M6-1		E-135
0.275 BSH RT	TO	1	600	300	0.18																															M4-5		E-136A
	5	1	600	600	0.36																															M1-4		E-136A
	↑	1	525	375	0.20						1			4.88 X		~~X~~		~~X~~																		M6-3		E-136A
												m 0.0	m 0.0	m ~~34.7~~ 37.2	m 0.0	m 34.7	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg 0.0	kg 0.0	kg 0.0	kg 0.0									
												37.2																												
							3																																		
	SHEET TOTALS	m2 4.98	m2 0.00	EA. ~~0~~	m2 0.00		m ~~34.7~~		m ~~34.7~~		kg 0.0	EA. 0	kg 0.0	EA. 0	EA. 0	kg 0																							

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	60 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 23

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT.#18 0.285 BSH LT	W. BARNET 5	1	1800	300	0.54																													D1-1a		E-123
	PEACHAM 7	1	1800	300	0.54																													D1-1a		E-123
	WELLS RIVER 13	1	1800	300	0.54																													D1-1a		E-123
	ST. JOHNSBURY 10 →	1	1800	300	0.54						2												2	87.82 X									D1-1a		E-123
0.313 BSH RT	BARNET 1	1	1800	300	0.54																													D2-1		E-123
	McINDOE FALLS 3	1	1800	300	0.54																													D2-1		E-123
	MONROE NH 9	1	1800	300	0.54																													D2-1		E-123
	E. RYEGATE 7	1	1800	300	0.54						2												2	93.00 X									D2-1		E-123
0.315 BSH LT	JCT	1	525	375	0.20																													M2-1		E-135
	INTERSTATE 91	1	600	600	0.36						1			4.88 X		~~X~~		~~X~~																M1-1		E-135
0.320 BSH LT	CHURCH ST						1 X																													
	BIMSON DR		600	150	0.09		2 X																											ONE BIMSON DR SIGN MISSING REPLACED WITH NEW SIGN		
	STOP	1	750	750	0.56						1			4.2 X		~~X~~		~~X~~																R1-1		E-143
SHEET TOTALS					5.53 m2 ~~5.44~~	m2 0.00	3 EA. ~~2~~	m2 ~~0.00~~				m ~~8.0~~	9.2	m 0.0 0.0 ~~8.0~~ 9.2		m ~~8.0~~		EA. 0			kg 0.0	0.0	0.0	EA. 4	kg ~~167.4~~ 180.82	0.0	0.0	0.0	EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	61 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 24

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 3.9	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 2.5	100MD 2.5	FND-ATION	TUBULAR STEEL DIA (mm) 75 kg/m 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
SCENIC 121.76 NB																																			
0.045 RAMP A LT	WRONG WAY	1	900	600	0.54						2			8.54 X		~~X~~		~~X~~															R5-1a		E-143
0.045 RAMP A RT	WRONG WAY	1	900	600	0.54						2			8.54 X		~~X~~		~~X~~															R5-1a		E-143
121.80 NB	BRIDGE 80-2 I-91						1						2.44 X																						
0.065 RAMP A RT	PROHIBITED [illegible]	1	750	600	0.45						1			4.27 X		~~X~~		~~X~~															VR-032		E-144
0.090 RAMP A RT	PROHIBITED [illegible]	1	600	900	0.54						1			4.88 X		~~X~~		~~X~~															VR-278		E-144
0.130 RAMP A RT	ONE WAY	1	900	300	0.27						2			8.54 X		~~X~~		~~X~~															R6-1L		E-142
0.140 RAMP A RT		1	600	600	0.36						1			4.88 X		~~X~~		~~X~~															R3-2		E-143

Subtotals:

	FLANGED CHANNEL 1.7	3.0	4.5	SQUARE STEEL 3.4	3.9	5.0	ANCHOR	SLEEVE	TUB. ALUM. 1.9	2.5	2.5	TUB. STEEL 11.3	13.6	16.1	21.8
Units	m	m	m	m	m	m		EA.	kg	kg	kg	kg	kg	kg	kg
Value	0.0	~~0.0~~ 2.44	~~34.7~~ 39.6	0.0	34.7	0.0		0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined	42.04														

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD.
POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

SHEET TOTALS	"A"	"B"	SALV SIGN	SALV TIS	FLANGED CHANNEL	SQUARE STEEL	TUBULAR ALUMINUM	FND-ATION	TUBULAR STEEL	FTG 600	FTG 750	MASS
Units	m2	m2	EA.	m2	m	m	kg	EA.	kg	EA.	EA.	kg
Totals	2.70	0.00	~~0~~ 1	~~0.00~~	~~34.7~~	~~34.7~~	0.0	0	0.0	0	0	0

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	tsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET 62 OF 88	

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 25

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE
INT.#19										
0.142 RAMP A RT	RAMP 50 M.P.H.	1	1200	1500	1.80					
0.210 RAMP A RT		1	1200	1200	1.44					
0.305 RAMP A RT		1	600	600	0.36					
0.061 RAMP B RT		1	450	450	0.20					
0.063 RAMP B RT		1	1200	1200	1.44					
0.110 RAMP B RT	BRIDGE ICES BEFORE ROAD	1	1200	1200	1.44					
0.162 RAMP B RT	BRIDGE 81-B-1 I-91	1	150	250	0.04					
0.465 RAMP B RT		1	600	600	0.36					
0.225 RAMP C RT		1	600	600	0.36					
0.060 RAMP D RT	RAMP 45 M.P.H.	1	1200	1500	1.80					
0.320 RAMP D RT		1	1200	1200	1.44					
0.431 RAMP D LT	ONE WAY	1	900	300	0.27					
0.350 RT RAMP D							1			1
INT.#20										
0.077 RAMP A RT	SOUTH	1	600	300	0.18					
	NORTH	1	600	300	0.18					
	5	1	600	600	0.36					
	5	1	600	600	0.36					
	←	1	525	375	0.20					
	→	1	525	375	0.20					

NEW SIGN POSTS

NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.93	100 kg/m 2.5	100MD kg/m 2.5	FND-ATION	TUBULAR STEEL DIA (mm) 75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
2			4.27 X		~~X~~		~~X~~					2	99.02 X									W13-3		E-150
2												2	92.13 X									W4-3		E-155
1			4.27 X		~~X~~		~~X~~															R3-2		E-143
1		2.44 X		~~X~~			~~X~~															OM-1		E-150
2												2	84.39 X									W12-1		
2									19.13 X													W8-13		E-150
1		2.44 X		~~X~~			~~X~~															VD-701	78	
1			4.27 X		~~X~~		~~X~~															R3-2		E-143
1			4.27 X		~~X~~		~~X~~															R3-2		E-143
2									22.21 X													W13-3		E-150
2									18.68 X													W4-3		E-155
2			4.27 X		~~X~~		~~X~~															R6-1R		E-142
1		2.44 X																						
																						M3-3		E-136A
																						M3-1		E-136A
																						M1-4		E-136A
																						M1-4		E-136A
2			9.75 X		~~X~~		~~X~~														#2	M6-1		E-136A
																						M6-2		E-136A

	m 0.0	m ~~5.3~~ 7.32	m ~~31.6~~ 26.83	m 5.3	m 31.6	m 0.0		EA. 0	kg ~~70.8~~ 60.02	kg 0.0	kg 0.0		kg ~~264.6~~	kg 0.0	kg 0.0	kg 0.0								
	34.2								60.02				275.54											
SHEET TOTALS	m2 12.43	m2 0.00	EA. ~~0~~ 1	m2 ~~0.00~~		m ~~36.9~~			kg ~~70.8~~			EA. 6	275.54 kg ~~264.6~~				EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	63 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 26

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 kg/m 2.5	100MD kg/m 2.5	TUBULAR STEEL DIA (mm) FNDATION	75 kg/m 11.3	90 kg/m 13.6	100 kg/m 16.1	125 kg/m 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT.#20 0.115 RAMP A RT	PASSUMPSIC 2	1	1800	300	0.54																													D1-1a		E-123
	ST. JOHNSBURY 1	1	1800	300	0.54						2			8.53 X		~~X~~		~~X~~																D1-1a		E-123
0.153 RAMP A RT	SERVICES 1 WRONG WAY	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26																													VD-502S BACK TO BACK		E-133
		1	900	600	0.54																													R5-1a		E-143
	LODGING	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26																													VD-502L		E-133
	CAMPING 4	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26																													VD-502C		E-133
	STATE POLICE	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26						2												2	82.66 X									VD-502SP		E-133
0.205 RAMP A LT		1	450	450	0.20						1		2.44 X		~~X~~				~~X~~															OM-1		E-150
0.205 RAMP A RT		1	900	900	0.81						1			4.88 X		~~X~~			~~X~~															W3-2a		E-150
0.207 RAMP A LT	SOUTH NORTH	1	600	300	0.18																													M3-3		E-136A
		1	600	300	0.18																													M3-1		E-136A
	5 5	1	600	600	0.36																													M1-4		E-136A
		1	600	600	0.36																													M1-4		E-136A
		1	525	375	0.20																													M6-1		E-136A
		1	525	375	0.20						2			9.75 X		~~X~~			~~X~~													#2	M6-2		E-136A
0.284 RAMP A RT	YIELD	1			0.35						1			4.88 X		~~X~~			~~X~~															R1-2 900X900X900		E-146
0.045 RAMP B RT	YIELD	1			0.35						1			4.27 X		~~X~~			~~X~~															R1-2 900X900X900		E-146
		m										m 0.0	~~2.7~~ 2.44	~~31.2~~ 32.31	m 2.7	m 31.2	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg ~~79.1~~ 82.66	kg 0.0	kg 0.0	kg 0.0								
													34.8																							
	SHEET TOTALS	m2 ~~6.61~~ 5.85		m2 0.00	EA. 0	m2 ~~0.00~~		m ~~33.9~~ 34.8		m ~~33.9~~ 34.8		kg 0.0		EA. 2		kg ~~79.1~~ 82.66		EA. 0	EA. 0	kg 0															

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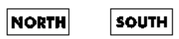
PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	fsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	64 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 27

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NO. OF POSTS	NEW SIGN POSTS: FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 3.9	63 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT.#20 0.080 RAMP B RT		1	900	900	0.81																												W1-11		
		1	600	600	0.36						1												1	46.50 X								W13-1		E-155
0.090 -0.213 LT RAMP B		9	450	600	2.43						9			32.94 X		~~X~~		~~X~~															W1-8 3.66 x 9 = 32.94		E-150
0.110 RAMP B RT		1	900	900	0.81																												VR-046		E-142
		1	900	900	0.81						2												2	105.09 X								VR-002		E-142
0.235 RAMP B RT		1	600	600	0.36						1			4.27 X		~~X~~		~~X~~															R3-2		E-143
0.048 RAMP C RT		1			0.35						1			X		X		X															R1-2 900X900X900		E-146
0.070 RAMP C RT		1	900	900	0.81																												W1-11		
		1	600	600	0.36						1												1	46.50 X								W13-1		E-155
0.080 -0.238 LT RAMP C		12	450	600	3.24						12			43.92 X		~~X~~		~~X~~															W1-8 3.66 x 12 = 43.92		E-150
0.090 RAMP C RT		1	900	900	0.81																												VR-046		E-142
		1	900	900	0.81						2												2	105.09 X								VR-002		E-142
0.259 RAMP C RT		1	600	600	0.36						1			4.27 X		~~X~~		~~X~~															R3-2		E-143
0.161 RAMP D RT		1	900	900	0.81						1			4.88 X		~~X~~		~~X~~															W3-1a POST 16' = 4.88m		E-150
0.199 RAMP D RT		1	600	300	0.18																												M3-1		E-136A
		1	600	300	0.18																												M3-3		E-136A
		1	600	600	0.36																												M1-4		E-136A
		1	600	600	0.36																												M1-4		E-136A
		1	525	375	0.20						2			9.75 X		~~X~~		~~X~~															M6-1 POSTS 16' 0" 16' 0" 9.75m	#2	E-136A
		1	525	375	0.20																												M6-1		E-136A
												m 0.0	m 0.0	m ~~107.2~~	m 0.0	m 107.2	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg ~~264.6~~ 303.18	kg 0.0	kg 0.0	kg 0.0								
														100.0														303.18							
SHEET TOTALS		m2 14.61	m2 0.00	EA. 0	m2 ~~0.00~~							m ~~107.2~~			m ~~107.2~~					kg 0.0			EA. 6	kg ~~264.6~~				EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	tssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	65 OF 86

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 28

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 1.7	50 3.4	63 3.9	ANCHOR 5.0	SLEEVE	TUBULAR ALUMINUM DIA (mm) kg/m 75 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT.#20																																			
0.237 RAMP D RT	ST. JOHNSBURY 1	1	1800	300	0.54																												D1-1a		E-123
	PASSUMPSIC 2	1	1800	300	0.54						2			8.53 X		~~X~~		~~X~~															D1-1a POSTS 14' 0" / 14' 0" 8.53m		E-123
0.275 RAMP D RT	SERVICES WRONG WAY	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26																												VD-502S BACK TO BACK		E-133
		1	900	600	0.54																												R5-1a		E-143
	LODGING	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26																												VD-502L		E-133
	4 CAMPING	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26																												VD-502C		E-133
	STATE POLICE	1	~~1800~~ 1370	~~250~~ 190	~~0.45~~ 0.26						2												2	87.0 X								VD-502SP		E-133
0.322 RAMP D RT	STOP / DO NOT ENTER	1	750	750	0.56																												R1-1 BACK TO BACK		E-143
		1	750	750	0.56																												R5-1		E-143
	ONE WAY / ONE WAY	1	900	300	0.27						1			4.27 X		~~X~~		~~X~~															R6-1L BACK TO BACK		E-142
		1	900	300	0.27																												R6-1R		E-142
0.322 RAMP D LT	STOP	1	750	750	0.56																												R1-1		E-143
		1	600	750	0.45																												R4-7		E-144
		1	450	450	0.20						1			4.27 X		~~X~~		~~X~~															OM-1		E-150
0.052 RAMP E RT	WRONG WAY	1	900	600	0.54						2			8.53 X		~~X~~		~~X~~															R5-1a		E-143
0.072 RAMP E RT	STOP / DO NOT ENTER	1	750	750	0.56																												R1-1 BACK TO BACK		E-143
		1	750	750	0.56																												R5-1		E-143
	ONE WAY / ONE WAY	1	900	300	0.27						1			4.27 X		~~X~~		~~X~~															R6-1L BACK TO BACK		E-142
		1	900	300	0.27																												R6-1R		E-142
0.072 RAMP E LT	STOP	1	750	750	0.56																												R1-1 BACK TO BACK		E-143
		1	600	750	0.45																												R4-7		E-144
		1	450	450	0.20						1			4.27 X		~~X~~		~~X~~															OM-1		E-150
												m 0.0	m 0.0	m ~~31.5~~ 34.1	m 0.0	m 31.5	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg ~~79.1~~	kg 0.0	kg 0.0	kg 0.0								
	SHEET TOTALS				~~8.94~~ 9.70	m2 0.00	m2 0	EA. 0	m2 ~~0.00~~			m ~~31.5~~			m ~~31.5~~					kg 0.0			EA. 2	kg ~~87.01~~ 79.1				EA. 0	EA. 0	kg 0					

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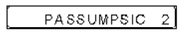
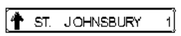
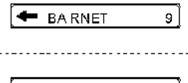
PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	tsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	66 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 29

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 3.4	50 3.9	63 5.0	INCLINER	SLEEVE	TUBULAR ALUMINUM DIA (mm) kg/m 75 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FND-ATION	kg/m 75 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN	FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT.#20 0.500 RTE 5 MED.		1	600	750	0.45																													R4-7		E-144
		1	450	450	0.20						1			4.27 X		~~X~~		~~X~~																	OM-1		E-150
0.550 RTE 5 LT		1	1800	300	0.54																													D2-1		E-123
		1	1800	300	0.54						2			9.54 X		~~X~~		~~X~~																	D2-1		E-123
0.550 RTE 5 RT		1	525	375	0.20																													M2-1		E-135
		1	600	600	0.36						1			4.27 X		~~X~~		~~X~~																	M1-1		E-135
0.590 RTE 5 RT		1	1800 600	300 300	0.54 0.18		I																											D1-1a		E-123
		1	1800 600	300 600	0.54 0.36		I																	III.98 X										D1-1a	C.O. #1 2 NEW T.S.S.P.	E-123
		1	1800 525	300 375	0.54 0.20		I				2												2	82.66 X										D1-1a		E-123
0.600 RTE 5 LT		1	600	300	0.18																													M3-3		E-136A
		1	600	600	0.36						1			4.88 X		~~X~~		~~X~~																	M1-4		E-136A
0.610 RTE 5 RT		1	1200	750	0.90						2			8.54 X		~~X~~		~~X~~																	VR-927		E-145B
0.617 RTE 5 LT		1	900	900	0.81						1			4.27 X		~~X~~		~~X~~																	W4-2		E-151
0.629 RTE 5 MED.		1	600	750	0.45																													R4-7		E-144
		1	450	450	0.20						1			4.27 X		~~X~~		~~X~~																	OM-1		E-150
					7.55		3					m 0.0	m 0.0	m ~~43.7~~	m 0.0	m 43.7	m 0.0	EA. 0		kg 0.0	kg 0.0	kg 0.0		kg ~~76.9~~	kg 0.0	kg 0.0	kg 0.0							
												40.0												194.64										
	SHEET TOTALS				m2 ~~6.81~~	m2 0.00	EA. ~~0~~	m2 ~~0.00~~				m ~~43.7~~			m ~~43.7~~					kg 0.0			EA. 2	kg ~~76.9~~				EA. 0	EA. 0	kg 0				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD.
POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	67 OF 86

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 30

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 50 63 kg/m 3.4	3.9	5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 100 100MD kg/m 1.9	2.5	2.5	TUBULAR STEEL DIA (mm) FNDATION	75	90	100	125 kg/m 11.3	13.6	16.1	21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT.#20 0.635 RTE 5 RT	TRUCK ROUTE	1	600	450	0.27																															R14-1		
	EAST / NORTH	1	600	300	0.18																															M3-2		E-136A
		1	600	300	0.18																															M3-1		E-136A
	2 / 5	1	600	600	0.36																															M1-4		E-136A
		1	600	600	0.36																															M1-4		E-136A
	← / ↑	1	525	375	0.20																														#2	M6-1		E-136A
		1	525	375	0.20																															M6-3		E-136A
	TO SOUTH / NORTH	1	600	300	0.18																															M3-3		E-135
		1	600	300	0.18																															M3-1		E-135
	93 / 91 / 91	1	600	600	0.36																															M1-1		E-135
		1	600	600	0.36																		1	115.37 X											M1-1		E-135
	← / ← / ↑	1	525	375	0.20																															M6-1		E-135
		1	525	375	0.20		7				2												2	120.55 X										#2	I EXTRA FOUNDATION BY C.O. #1 2 NEW POSTS		
		1	525	375	0.20																															M6-3		E-135
0.635 RTE 5 RT	NORTH / SOUTH	1	600	300	0.18																															M3-1		E-136A
		1	600	300	0.18																															M3-3		E-136A
	5 / 5	1	600	600	0.36																															M1-4		E-136A
		1	600	600	0.36																															M1-4		E-136A
	← / →	1	525	375	0.20																															M6-1		E-136A
		1	525	375	0.20						2			8.53 X		~~X~~		~~X~~																#2	2 - 14' POSTS M6-1		E-136A
0.643 RTE 5 MED.		1	600	750	0.45																															R4-7		E-144
		1	450	450	0.20						1			4.27 X		~~X~~		~~X~~																			OM-1		E-150
0.661 RTE 5 LT		1	450	450	0.20						1		2.44 X		~~X~~			~~X~~																			OM-1		E-150
0.662 RTE 5 RT	LYNDONVILLE 11 →	1	1800	300	0.54																															D1-1a		E-123
	NEWPORT 47 →	1	1800	300	0.54						2			8.53 X		~~X~~		~~X~~																			D1-1a		E-123
												m 0.0	m ~~2.7~~ 2.44	m ~~21.3~~ 21.39	m 2.7	m 21.3	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg ~~89.3~~	kg 0.0	kg 0.0	kg 0.0										
													23.8												235.92												
	SHEET TOTALS				~~6.64~~ 7.38	m2 0.00		EA. ~~0~~ 7	m2 ~~0.00~~			m ~~24.0~~ 24.0			m ~~24.0~~ 24.0					kg 0.0			EA. ~~2~~ 3	kg ~~89.3~~ 235.92				EA. 0	EA. 0	kg 0						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	68 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 31

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44	50	64	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) kg/m 75	100	100MD	TUBULAR STEEL DIA (mm) kg/m FND-ATION	75	90	100	125	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT.#20																																				
0.688 RTE 5 LT	SOUTH TO	1	600	300	0.18		I																											M3-3		E-135
	INTERSTATE 91 INTERSTATE 93	1	600	600	0.36		I																											M1-1		E-135
		1	525	375	0.20		I				1			4.88 X 4.88		~~X~~		~~X~~																M6-2 C.O. #1 ADDED SIGNS		E-135
0.700 RTE 5 RT	14'-0"	1	900	900	0.81						1			4.27 X		~~X~~		~~X~~																W12-2		E-155
0.766 RTE 5 RT	TRUCK ROUTE	1	600	450	0.27																													R14-1		
	NORTH WEST	1	600	300	0.18																													M3-1		E-135
		1	600	300	0.18																													M3-4		E-136A
	INTERSTATE 91 2	1	600	600	0.36																													M1-1		E-135
		1	600	600	0.36																													M1-4		E-136A
		1	525	375	0.20						2												2	93.86 X								#2	M6-1		E-135
		1	525	375	0.20																													M6-1		E-136A
0.780 RTE 5 LT	PASSUMPSIC 2	1	1800	300	0.54																													D1-1a		E-123
	BARNET 9	1	1800	300	0.54																													D1-1a		E-123
	WHITE RIVER JCT 62	1	1800	300	0.54						2												2	72.33 X									D1-1a		E-123
0.790 RTE 5 RT		1	450	450	0.20						1		2.44 X			~~X~~		~~X~~																OM-1		E-150
0.810 RTE 5 MED.		1	600	750	0.45																													R4-7		E-144
		1	450	450	0.20						1			4.27 X		~~X~~		~~X~~																OM-1		E-150
0.819 RTE 5 LT 0.810 RTE 5 RT	NORTH SOUTH	1	600 600	300 300	0.18 0.18																													M3-3		E-136A
	INTERSTATE 91 5	1	600 600	600 600	0.36 0.36									4.88 X																				M1-4 C.O. #1 ADDED SIGNS		E-136A
		1	525 525	375 375	0.20 0.20						1			4.88 X		~~X~~		~~X~~																M6-1		E-136A
												m 0.0	~~2.7~~ 2.44	~~17.1~~ 28.06	m 2.7	m 17.1	m 0.0		EA. 0	kg 0.0	kg 0.0	kg 0.0		kg ~~185.4~~ 166.19	kg 0.0	kg 0.0	kg 0.0							
					7.99		3						30.5												166.19										
	SHEET TOTALS				m2 ~~6.51~~	m2 0.00	EA. ~~0~~	m2 ~~0.00~~					m ~~19.8~~			m ~~19.8~~					kg 0.0			EA. 4	kg ~~185.4~~				EA. 0	EA. 0		kg 0				

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME	tsssRyegate.xls	PLOT DATE	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	69 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 32

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) 44 kg/m 3.4	50 kg/m 3.9	63 kg/m 5.0	ANCHOR	SLEEVE	TUBULAR ALUMINUM DIA (mm) 75 kg/m 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FND-ATION	75 kg/m 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG. SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
INT.#20		1	600	300	0.18																												M3-1 I-91 TO 0.875 LT RTE 5		E-135
0.820 RTE 5 LT	NORTH SOUTH SOUTH TO	1	600	300	0.18		I																										M3-3		E-135
		1	600	300	0.18																												M3-3		E-136A
	93 91 91 5	1	600	600	0.36																												M1-1		E-135
		1	600	600	0.36		I																										M1-1		E-135
		1	600	600	0.36																												M1-4		E-136A
		1	525	375	0.20																			93.86									M6-1		E-135
		1	525	375	0.20		I				2												2	X							#3	M6-3		E-135
		1	525	375	0.20																												M6-3		E-136A
0.823 RTE 5 MED.		1	600	750	0.45																												R4-7		E-144
		1	450	450	0.20						1			4.27 X		~~X~~		~~X~~														OM-1		E-150
0.868 RTE 5 LT	ONLY	1	1200	750	0.90						2			9.15 X		~~X~~		~~X~~														VR-927		E-145B
0.875 RTE 5 LT	~~PASSUMPSIC 2~~	1	1800	300	0.54																												D1-1a REMOVE - PASSUMPSIC 2 C.O.*		E-123
	LYNDONVILLE 11	1	1800	300	0.54																												D1-1a NEW T.S.S.P.		E-123
	NEWPORT 47	1	1800	300	0.54		5				2												2	93.00 X								D1-1a		E-123
	91 NORTH		600 600 525	300 600 375	0.18 0.36 0.20																												REMOVED & SALVAGED FROM 0.820 RT		
0.920 RTE 5 RT	NORTH	1	600	300	0.18																												M3-1		E-136A
	5	1	600	600	0.36						1			4.88 X		~~X~~		~~X~~														M1-4		E-136A
0.950 RTE 5 LT	J CT	1	525	375	0.20																												M2-1		E-135
	91	1	600	600	0.36						1			4.27 X		~~X~~		~~X~~														M1-1		E-135
					7.23		8					m 0.0	0.0	~~26.0~~ 22.6	m 0.0	26.0	0.0	EA. 0		kg 0.0	0.0	0.0		~~159.4~~ 186.86	0.0	0.0	0.0								
												22.6													186.86										
		SHEET TOTALS			m2 ~~6.49~~	m2 0.00	EA. 0	m2 ~~0.00~~				m ~~26.0~~			m ~~26.0~~					kg 0.0			EA. 4	kg ~~159.4~~				EA. 0	EA. 0	kg 0					

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	fsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
CLD REF. NO.:	97-0194	SHEET	70 OF 88

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET 33

Metric

MILE MARKER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (mm)	HEIGHT (mm)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NO. OF POSTS	NEW SIGN POSTS: FLANGED CHANNEL kg/m 1.7	3.0	4.5	SQUARE STEEL (mm) kg/m 44 1.7	50 3.0	63 4.5	ANCHOR	SLIP SLEVE	TUBULAR ALUMINUM DIA (mm) kg/m 75 1.9	100 2.5	100MD 2.5	TUBULAR STEEL DIA (mm) FNDATION	75 11.3	90 13.6	100 16.1	125 21.8	W-SHAPE STEEL FTG SIZE 600 mm	750 mm	MASS	POST SIZE	SIGN FRAME	REMARKS	SIGN DETAIL: DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
	SUBTOTAL SHEET 1				7.21	14.11	~~0~~ 1	0.00				84.94 ~~72.7~~				72.7			0.0			10		~~531.9~~		577.2	0	0	0						
	SUBTOTAL SHEET 2				8.05	50.00	~~0~~ 1	0.00				56.12 ~~57.3~~				57.3			0.0			0		0.0			8	0	~~1290~~	1259.2					
	SUBTOTAL SHEET 3				7.17	16.65	0	0.00				22.6 ~~23.5~~				23.5			0.0			7		~~301.9~~		327.2	2	0	~~448~~	474.0					
	SUBTOTAL SHEET 4				11.67	15.59	0	0.00				25.6 ~~29.0~~				29.0			42.4 ~~49.4~~			14		~~810.1~~		774.6	0	0	0						
	SUBTOTAL SHEET 5				6.91 ~~6.10~~	0.00	0	0.00				76.8 ~~68.6~~				68.6			22.2 ~~23.6~~			0		0.0			0	0	0				NB		
	SUBTOTAL SHEET 6				8.97	80.06	0	0.00				23.2 ~~22.7~~				22.7			0.0			4		~~211.9~~		218.6	6	~~0~~ 3	1082	1091.9					
	SUBTOTAL SHEET 7				10.67	28.62	~~0~~ 1	0.00				57.3 ~~53.0~~				53.0			0.0			10		~~436.4~~		458.9	4	0	~~648~~	656.9					
	SUBTOTAL SHEET 8				7.12	4.39	0	0.00				75.0 ~~73.1~~				73.1			0.0			6		~~287.7~~		317.0	0	0	0						
	SUBTOTAL SHEET 9				11.29	12.96	~~0~~ 2	0.00				60.4 ~~54.0~~				54.0			0.0			12		~~696.7~~		672.0	0	0	0						
	SUBTOTAL SHEET 10				10.68	16.65	0	0.00				22.6 ~~22.7~~				22.7			20.0 ~~22.8~~			9		~~414.9~~		434.0	2	0	~~341~~	306.1					
	SUBTOTAL SHEET 11				5.28 ~~5.17~~	51.01	0	0.00				28.7 ~~28.0~~				20.0			0.0			0		0.0			8	0	~~1420~~	1451.5			SB		
	SUBTOTAL SHEET 12				7.62	0.00	0	0.00				67.5 ~~71.4~~				71.4			41.9 ~~48.3~~			0		0.0			0	0	0						
	SUBTOTAL SHEET 13				11.75	3.24	~~0~~ 1	0.00				38.4 ~~39.1~~				39.1			41.5 ~~47.0~~			7		~~404.6~~		402.5	0	0	0						
	SUBTOTAL SHEET 14				5.14	45.15 ~~42.45~~	0	0.00				35.4 ~~36.4~~				36.4			19.0 ~~23.6~~			2		~~81.4~~		93.0	2	0	~~252~~	255.1					
	SUBTOTAL SHEET 15				7.33	0.00	0	0.00				83.0 ~~73.4~~				73.4			0.0			0		0.0			0	0	0				PARK AREA NB		
	SUBTOTAL SHEET 16				7.36	0.00	~~0~~ 1	0.00				67.1 ~~60.6~~				60.6			0.0			0		0.0			0	0	0						
	SUBTOTAL SHEET 17				4.80	0.00	0	0.00				52.5 ~~49.7~~				49.7			0.0			0		0.0			0	0	0						
	SUBTOTAL SHEET 18				8.45 ~~8.02~~	0.00	~~0~~	0.00				23.2 ~~23.9~~				23.9			16.8 ~~20.6~~			4		~~197.8~~		190.3	0	0	0						
	SUBTOTAL SHEET 19				9.55	0.00	0	0.00				23.2 ~~32.0~~				32.0			23.0 ~~23.2~~			2		~~90.4~~		101.6	0	0	0						
	SUBTOTAL SHEET 20				8.44 ~~9.01~~	0.00	~~0~~ 2	0.00				36.0 ~~34.7~~				34.7			17.6 ~~20.6~~			0		0.0			0	0	0						
	SUBTOTAL SHEET 21				8.28 ~~6.06~~	0.00	~~0~~ 3	0.00				32.3 ~~29.8~~				29.8			0.0			2		~~82.5~~		94.7	0	0	0						
	SUBTOTAL SHEET 22				4.98	0.00	~~0~~ 3	0.00				37.2 ~~34.7~~				34.7			0.0			0		0.0			0	0	0						
	SUBTOTAL SHEET 23				5.53 ~~5.44~~	0.00	~~2~~ 3	0.00				9.2 ~~8.0~~				8.0			0.0			4		~~167.4~~		180.8	0	0	0						
	SUBTOTAL SHEET 24				2.70	0.00	~~0~~ 1	0.00				42.0 ~~34.7~~				34.7			0.0			0		0.0			0	0	0						
	SUBTOTAL SHEET 25				12.43	0.00	~~0~~ 1	0.00				34.2 ~~36.9~~				36.9			60.0 ~~70.8~~			6		~~264.6~~		275.5	0	0	0						
	SUBTOTAL SHEET 26				5.85 ~~6.61~~	0.00	0	0.00				34.8 ~~33.9~~				33.9			0.0			2		~~79.1~~		82.7	0	0	0						
	SUBTOTAL SHEET 27				14.61	0.00	0	0.00				100 ~~107.2~~				107.2			0.0			6		~~264.6~~		303.2	0	0	0						
	SUBTOTAL SHEET 28				8.94 ~~9.70~~	0.00	0	0.00				34.1 ~~31.5~~				31.5			0.0			2		~~79.1~~		87.0	0	0	0						
	SUBTOTAL SHEET 29				7.55 ~~6.81~~	0.00	~~0~~ 3	0.00				40.0 ~~43.7~~				43.7			0.0			2		~~76.9~~		194.6	0	0	0						
	SUBTOTAL SHEET 30				7.38 ~~6.84~~	0.00	~~0~~ 7	0.00				23.8 ~~24.0~~				24.0			0.0			~~2~~ 3		~~89.3~~		235.9	0	0	0						
	SUBTOTAL SHEET 31				7.39 ~~6.51~~	0.00	~~0~~ 3	0.00				30.5 ~~19.8~~				19.8			0.0			4		~~185.4~~		166.2	0	0	0						
	SUBTOTAL SHEET 32				7.23 ~~6.48~~	0.00	~~0~~ 8	0.00				22.6 ~~26.0~~				26.0			0.0			4		~~159.4~~		186.9	0	0	0						
	SUBTOTAL				259.63 ~~264.66~~	338.43 ~~335.73~~	~~2~~	0.00				1400.3 ~~1348.0~~				1348.0			304.4 ~~349.9~~			122 ~~121~~		6302.4 5914.0			32	0	5495 ~~5481~~						
	ROUNDING				~~0.34~~	~~0.27~~	0	0.00				~~0.0~~				0.0			~~0.1~~			0		~~1.0~~			0	0	0						
	PROJECT TOTALS				259.63 m2 ~~255.00~~	338.43 m2 ~~336.00~~	41 EA. ~~2~~	0 m2 ~~0.00~~				1400.3 m ~~1348.0~~				1,348.0 m			304.3 kg ~~350.0~~			122 EA. ~~121~~		6374.4 kg ~~5915.0~~			29 EA. ~~32~~	3 EA. ~~0~~	5495 kg ~~5481~~						

FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".

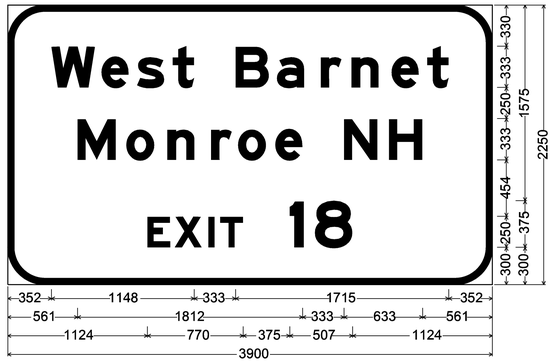
PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME:	tsssRyegate.xls	PLOT DATE:	12/12/06
PROJECT LEADER:	CRB	DRAWN BY:	JCS
DESIGNED BY:	PTS	CHECKED BY:	DAM
OLD REF. NO.:	97-0194	SHEET	71 OF 88

M.M. 113.298 NB
M.M. 115.505 SB

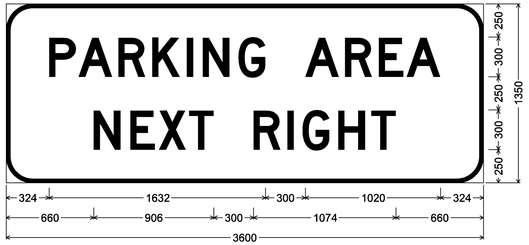
VTrans E-131;
250mm Radius, 50mm Border, White on Blue;
[PARKING] D 2K; [AREA] D 2K;
Arrow 133 - 750mm 45°;

M.M. 119.480 NB



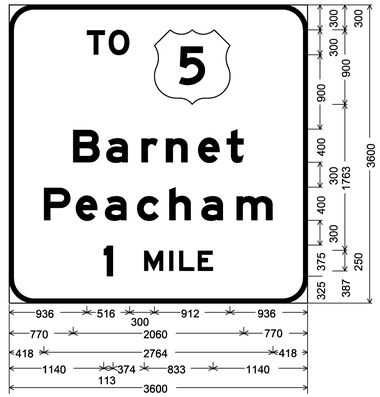
E1-2; 300mm Radius, 50mm Border, White on Green;
[West Barnet] E Mod 2K; [Monroe NH] E Mod 2K; [EXIT 18] E Mod 2K;

M.M. 113.140 NB
M.M. 115.700 SB



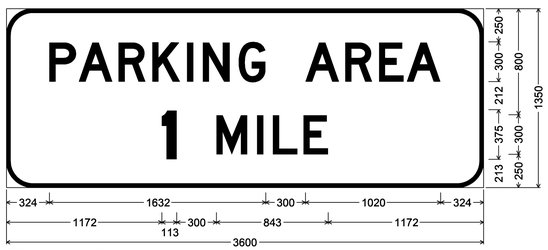
D5-2; 200mm Radius, 30mm Border, White on Blue;
[PARKING AREA] D 2K; [NEXT RIGHT] D 2K;

M.M. 119.240 NB
M.M. 121.700 SB



300mm Radius, 50mm Border, White on Green;
[TO] E Mod 2K; [Barnet] E Mod 2K; [Peacham] E Mod 2K; [1 MILE] E Mod 2K;

M.M. 112.150 NB
M.M. 116.430 SB



200mm Radius, 30mm Border, White on Blue;
[PARKING AREA] D 2K; [1] E Mod 2K [MILE] D 2K;

GENERAL SIGN DETAIL NOTES

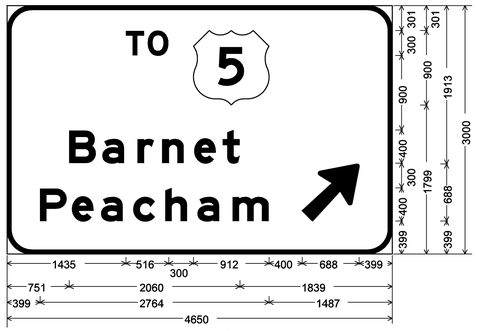
1. THE NOTE BELOW EACH SIGN DETAIL INCLUDES THE CORNER RADII, BORDER WIDTH, TEXT COLOR, BACKGROUND COLOR AND TEXT SERIES TO BE USED.
2. COLORS: UNLESS NOTED OTHERWISE, WHITE ON GREEN AND WHITE ON BLUE SIGNIFIES REFLECTORIZED WHITE TEXT ON A REFLECTORIZED GREEN OR BLUE BACKGROUND, RESPECTIVELY. BLACK ON YELLOW AND BLACK ON WHITE SIGNIFIES BLACK TEXT ON A REFLECTORIZED YELLOW OR WHITE BACKGROUND, RESPECTIVELY. ALL COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY AASHTO AND APPROVED BY THE FHWA.
3. TEXT LAYOUT DIMENSIONS ARE BASED ON THE STANDARD ALPHABETS SPACING CHARTS FOUND IN THE MUTCD "STANDARD HIGHWAY SIGNS" PUBLICATION. MINOR VARIATIONS IN TEXT DIMENSIONS ARE ACCEPTABLE BASED ON INDIVIDUAL MANUFACTURER'S LETTER FABRICATION. SIGNIFICANT CHANGES WHICH AFFECT SIGN APPEARANCE SHALL BE BROUGHT TO THE ATTENTION OF THE VTRANS' TRAFFIC AND SAFETY SECTION BEFORE FABRICATION.
4. UNLESS NOTED OTHERWISE, THE DESIGN/DIMENSIONS FOR SYMBOLS SHOWN ON THESE SIGNS CAN BE FOUND IN VTRANS' STANDARDS OR IN THE STANDARD HIGHWAY SIGNS PUBLICATION.
5. FOR GUIDE SIGN ROUTE MARKER DETAILS SEE STD'S E-135, E-136A AND E-136B
6. THE NOTE BELOW EACH GUIDE SIGN DETAIL SPECIFIES APPROPRIATE ARROW LENGTHS WHEN APPLICABLE. FOR ARROW DIMENSIONS REFER TO GUIDE SIGN ARROW DETAILS IN THE STANDARD HIGHWAY SIGNS PUBLICATION.

SIGN DETAIL SHEET 1

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

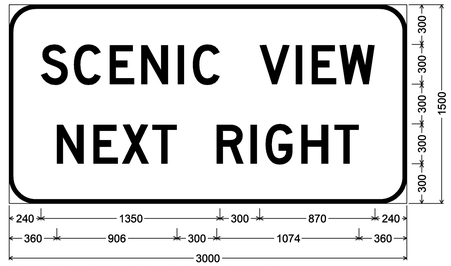
FILE NAME: 97194s-details.dgn
PROJECT LEADER: CRB
DESIGNED BY: PTS
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 72 OF 88

M.M. 120.170 NB
M.M. 120.700 SB



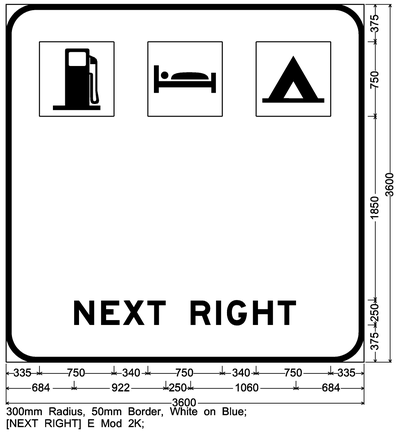
300mm Radius, 50mm Border, Black on Green;
[TO] White E Mod 2K; [Barnet] White E Mod 2K; [Peacham] White E Mod 2K; Arrow 160 - 875mm 45° White;

M.M. 121.440 NB



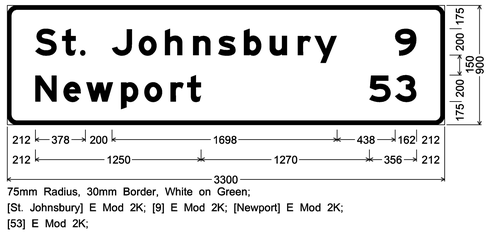
D5-1b; 200mm Radius, 30mm Border, White on Blue;
[SCENIC VIEW] D 2K; [NEXT RIGHT] D 2K;

M.M. 119.950 NB
M.M. 120.940 SB



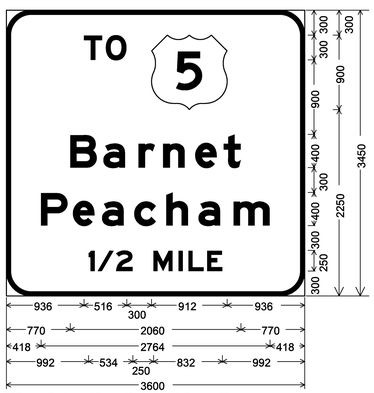
300mm Radius, 50mm Border, White on Blue;
[NEXT RIGHT] E Mod 2K;

M.M. 121.260 NB



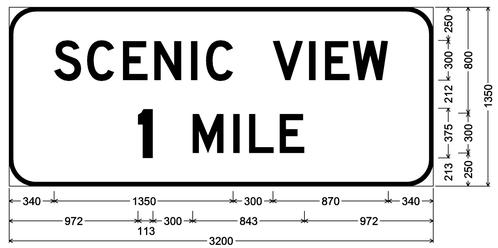
75mm Radius, 30mm Border, White on Green;
[St. Johnsbury] E Mod 2K; [9] E Mod 2K; [Newport] E Mod 2K;
[53] E Mod 2K;

M.M. 119.731 NB



300mm Radius, 50mm Border, White on Green;
[TO] E Mod 2K; [Barnet] E Mod 2K; [Peacham] E Mod 2K; [1/2 MILE] E Mod 2K;

M.M. 120.930 NB



200mm Radius, 30mm Border, White on Blue;
[SCENIC VIEW] D 2K; [1] E Mod 2K [MILE] D 2K;

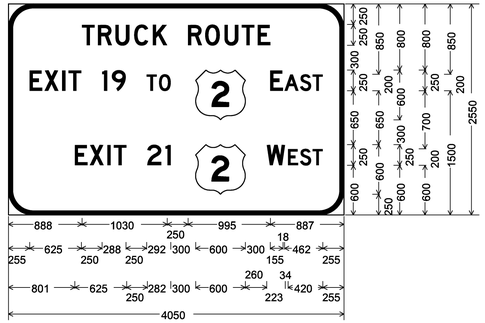
SEE GENERAL SIGN DETAIL NOTES ON SHEET 72.

SIGN DETAIL SHEET 2

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

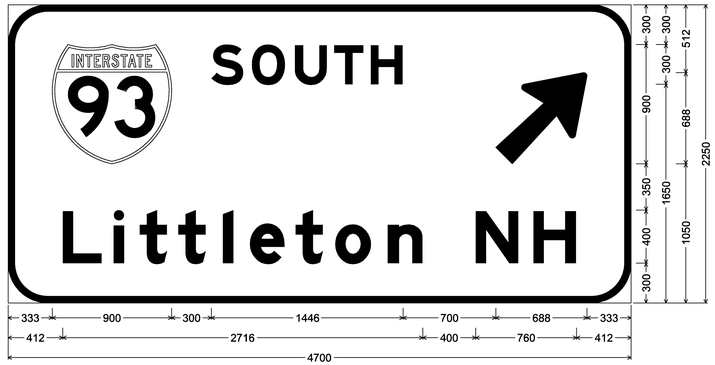
FILE NAME: 97194s-details.dgn
PROJECT LEADER: CRB
DESIGNED BY: PTS
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 73 OF 88

M.M. 127.420 NB



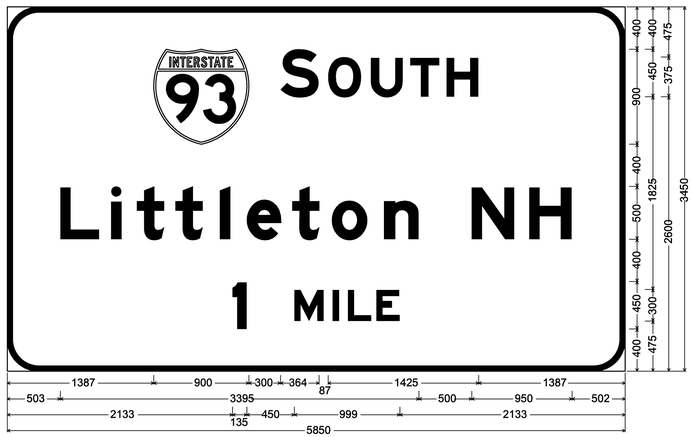
300mm Radius, 50mm Border, White on Green;
[TRUCK ROUTE] D 2K; [EXIT 19 TO] D 2K; [EAST] D 2K; [EXIT 21] D 2K; [WEST] D 2K;

M.M. 127.980 NB OVERHEAD



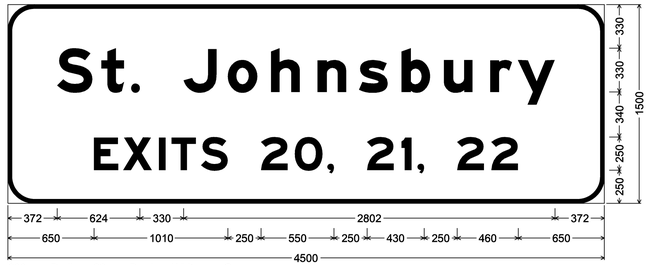
Main Panel; 300mm Radius, 50mm Border, White on Green;
[SOUTH] E Mod 2K; Arrow 160 - 875mm 45°; [Littleton NH] E Mod 2K;

M.M. 127.220 NB



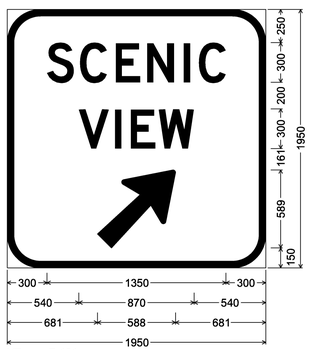
300mm Radius, 50mm Border, White on Green;
[SOUTH] E Mod 2K; [Littleton NH] E Mod 2K; [1 MILE] E Mod 2K;

M.M. 127.800 NB



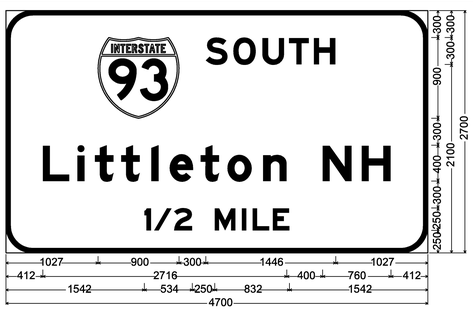
200mm Radius, 30mm Border, White on Green;
[St. Johnsbury] E Mod 2K; [EXITS 20, 21, 22] E Mod 2K;

M.M. 121.810 NB



VTrans E-131;
250mm Radius, 50mm Border, White on Blue;
[SCENIC] D 2K; [VIEW] D 2K;
Arrow 133 - 750mm 45°;

M.M. 127.628 NB OVERHEAD



300mm Radius, 50mm Border, White on Green;
[SOUTH] E Mod 2K; [Littleton NH] E Mod 2K; [1/2 MILE] E Mod 2K;

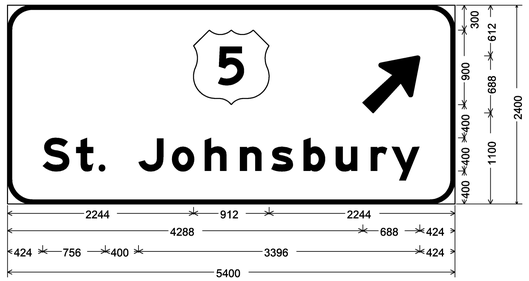
SEE GENERAL SIGN DETAIL NOTES ON SHEET 72.

SIGN DETAIL SHEET 3

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

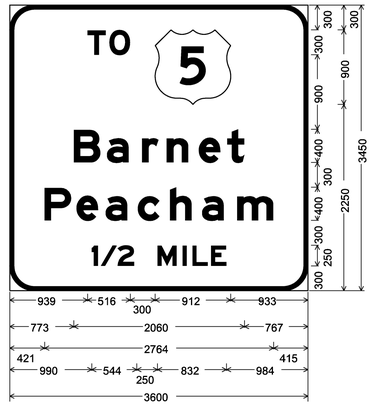
FILE NAME: 97194s-details.dgn
PROJECT LEADER: CRB
DESIGNED BY: PTS
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM

M.M. 128.700 NB



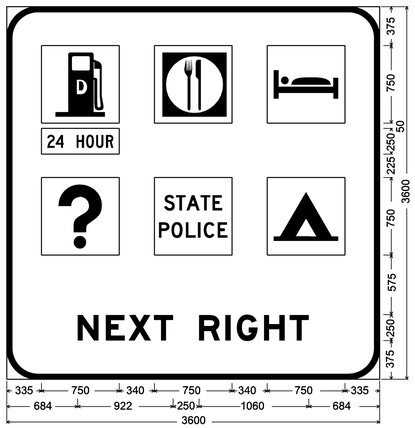
300mm Radius, 50mm Border, White on Green;
Arrow 160 - 875mm 45°; [St. Johnsbury] E Mod 2K;

M.M. 121.200 SB



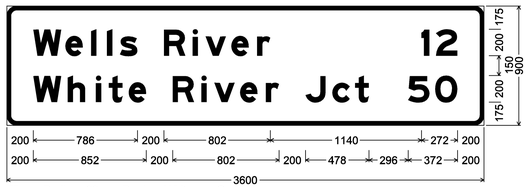
300mm Radius, 50mm Border, White on Green;
[TO] E Mod 2K; [Barnet] E Mod 2K; [Peacham] E Mod 2K; [1/4 MILE] E Mod 2K;

M.M. 128.550 NB



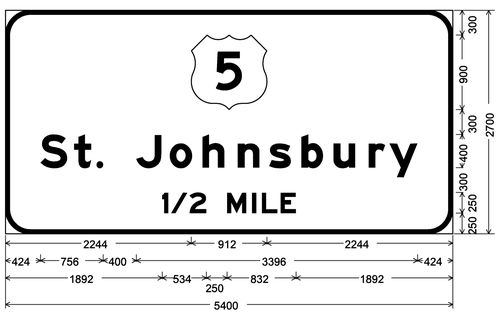
300mm Radius, 50mm Border, White on Blue;
[NEXT RIGHT] E Mod 2K;

M.M. 119.603 SB

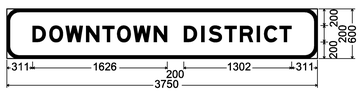


75mm Radius, 30mm Border, White on Green;
[Wells River] E Mod 2K; [12] E Mod 2K; [White River Jct] E Mod 2K; [50] E Mod 2K;

M.M. 128.225 NB



300mm Radius, 50mm Border, White on Green;
[St. Johnsbury] E Mod 2K; [1/2 MILE] E Mod 2K;



150mm Radius, 35mm Border, White on Green;
[DOWNTOWN DISTRICT] E Mod 2K;

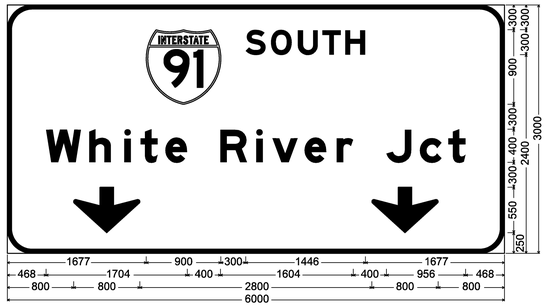
SEE GENERAL SIGN DETAIL NOTES ON SHEET 72.

SIGN DETAIL
SHEET 4

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

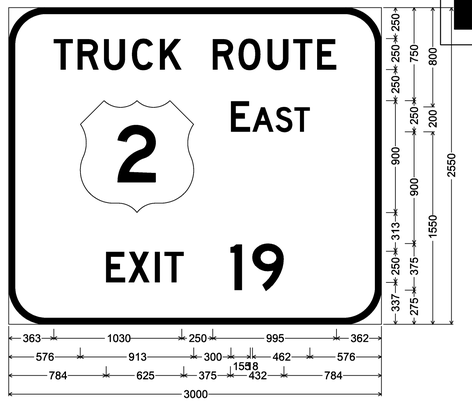
FILE NAME: 97194s-details.dgn
PROJECT LEADER: CRB
DESIGNED BY: PTS
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 75 OF 88

M.M. 128.700 SB
OVERHEAD



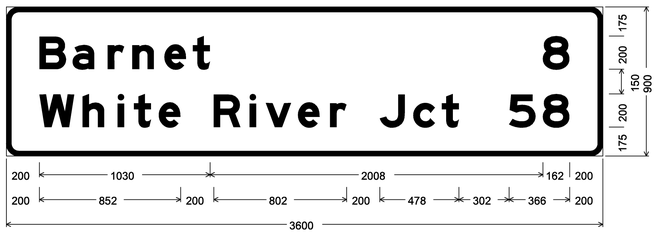
300mm Radius, 50mm Border, White on Green;
[SOUTH] E Mod 2K; [White River Jct] E Mod 2K; Down Arrow 550mm 270°; Down Arrow 550mm 270°;

M.M. 128.810 SB



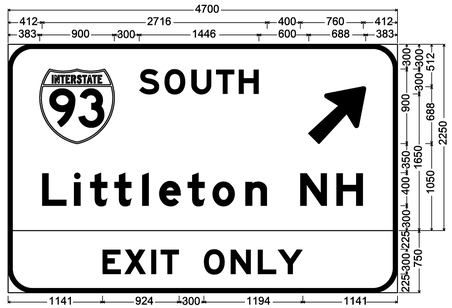
300mm Radius, 50mm Border, White on Green;
[TRUCK ROUTE] D 2K; [EAST] D 2K; [EXIT 19] D 2K;

M.M. 127.195 SB



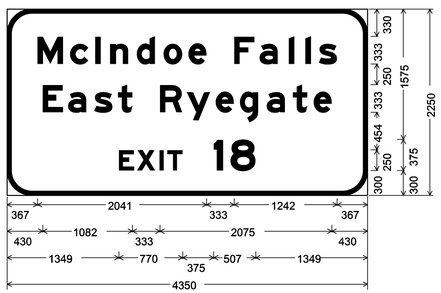
75mm Radius, 30mm Border, White on Green;
[Barnet] E Mod 2K; [White River Jct] E Mod 2K; [8] E Mod 2K; [58] E Mod 2K;

M.M. 128.700 SB
OVERHEAD



Main Panel: 300mm Radius, 50mm Border, White on Green;
[SOUTH] E Mod 2K; Arrow 160 - 875mm 45°; [Littleton NH] E Mod 2K;
Split Color, 300mm Radius, 50mm Border, Black on Yellow;
[EXIT ONLY] E Mod 2K;

M.M. 121.450 SB



E1-2; 300mm Radius, 50mm Border, White on Green;
[McIndoe Falls] E Mod 2K; [East Ryegate] E Mod 2K; [EXIT 18] E Mod 2K;

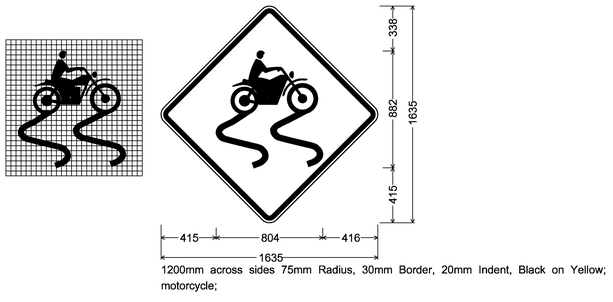
SEE GENERAL SIGN DETAIL NOTES ON SHEET 72.

SIGN DETAIL
SHEET 5

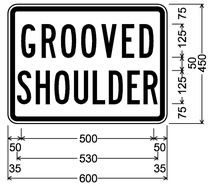
PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-details.dgn
PROJECT LEADER: CRB
DESIGNED BY: PTS
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 76 OF 88

MISC.

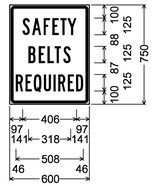


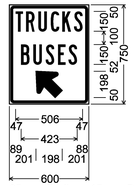
1200mm across sides 75mm Radius, 30mm Border, 20mm Indent, Black on Yellow;
motorcycle;



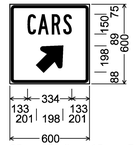
35mm Radius, 15mm Border, 10mm Indent, Black on Yellow;
[GROOVED] B;
[SHOULDER] B 70% spacing;

PARKING AREA SCENIC VIEW





35mm Radius, 15mm Border, 10mm Indent, White on Blue;
[TRUCKS] B;
[BUSES] B;
Standard Arrow Custom 243mm X 214mm 135º;



35mm Radius, 15mm Border, 10mm Indent, White on Blue;
[CARS] B;
Standard Arrow Custom 243mm X 214mm 45º;

35mm Radius, 15mm Border, 10mm Indent, Black on White;
[SAFETY] B;
[BELTS] B;
[REQUIRED] B 80% spacing;

MISC.

VR-132;
75mm Radius, 22mm Border, 20mm Indent, Black on White;
[KEEP] D, [RIGHT] D
[EXCEPT] D, [TO] D, [PASS] D

MISC.

1200mm across sides 70mm Radius, 30mm Border, 20mm Indent, Black on Yellow;
[BRIDGES] C 2K;
[ICE BEFORE] C 2K; [ROAD] C 2K;

MISC.

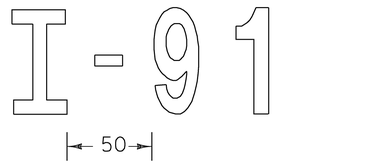
1200mm across sides 75mm Radius, 30mm Border, 20mm Indent, Black on Yellow;
[EMERGENCY] C 2K 60% spacing;
[VEHICLE] C 2K; [ENTRANCE] C 2K;

SEE GENERAL SIGN DETAIL NOTES ON SHEET 72.

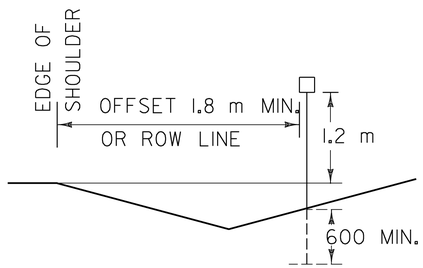
SIGN DETAIL
SHEET 6

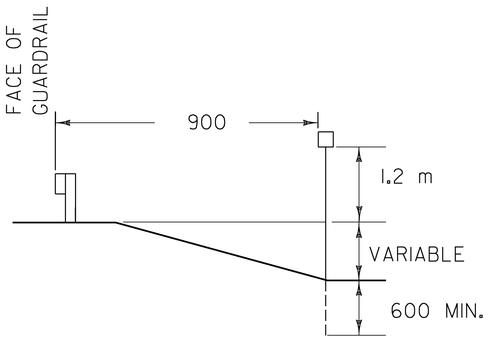
PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-details.dgn
PROJECT LEADER: CRB
DESIGNED BY: PTS
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 77 OF 88

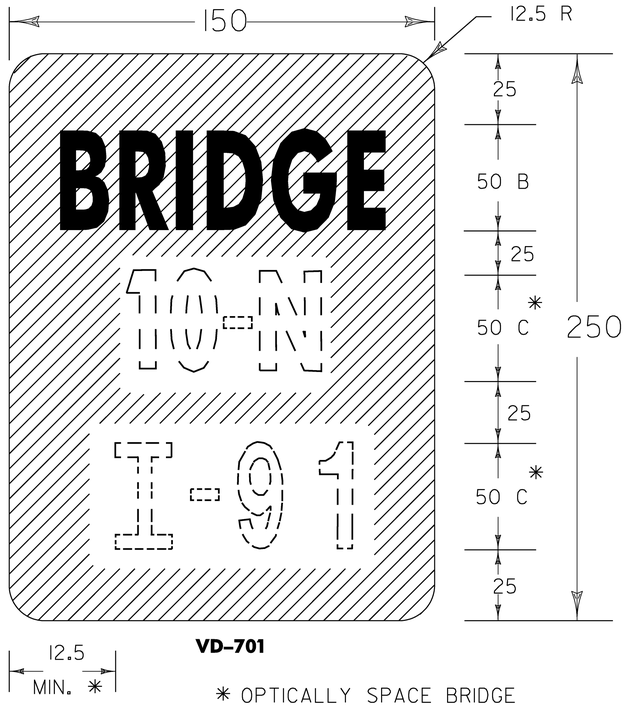


HYPHEN DETAIL





FOR EXAMPLE, ROUTE NUMBERS
SHALL APPEAR AS: I-91, US5, VT22



VD-701

* OPTICALLY SPACE BRIDGE AND ROUTE NUMBERS. SERIES B LETTERS MAY BE USED TO MAINTAIN VISUAL INTEGRITY.

THE FOLLOWING BRIDGES ARE NOT SHOWN ON THE PLANS BUT REQUIRE NEW PLAQUES. QUANTITIES FOR REMOVAL OF EXISTING PLAQUES AND INSTALLATION OF NEW PLAQUES AND POSTS HAVE BEEN ESTIMATED.

NB		SB	
112.563	68-1	112.563	68-1
112.941	68-3N	112.964	68-4S
114.181	69-4	114.181	69-4
118.032	69-14	118.032	69-14
118.131	69-15	118.131	69-15
118.940	70-4N	118.964	70-4S
122.514	75-1N	122.564	75-1S
126.740	79-7N	126.679	79-7S
128.204	80-2	128.204	80-2

BRIDGE PLAQUE DETAIL

NOTES:

GENERAL:
DOTTED LINES AND NUMERALS INDICATE TEXT THAT VARIES.

MATERIAL:
THE SIGN BASE MATERIAL SHALL BE 1mm FLAT SHEET ALUMINUM.

COLORS:
THE SIGN SHALL HAVE A RETROREFLECTORIZED WHITE TEXT ON RETROREFLECTORIZED GREEN BACKROUND. THE COLORS SHALL CONFORM WITH THOSE FOUND IN STANDARD COLOR TOLERANCE CHARTS AS APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

RETROREFLECTVITY WILL BE EQUAL TO OR EXCEEDING ASTM TYPE III.

LETTERING:
LETTERS AND DIGITS SHALL CONFORM WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS AS PRINTED BY THE FEDERAL HIGHWAY ADMINISTRATION.

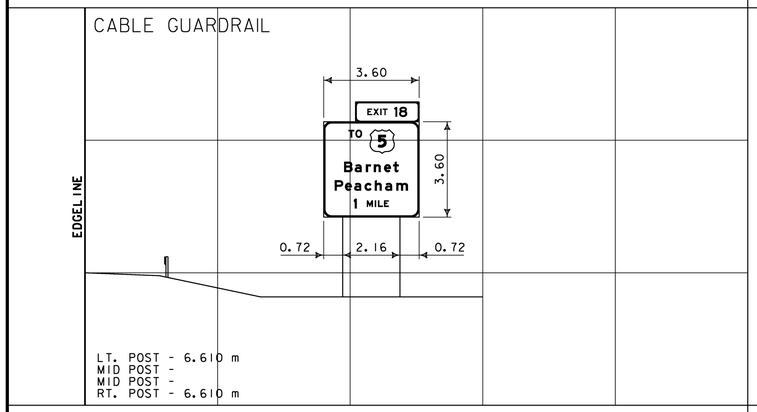
POSTS:
FLANGED CHANNEL STEEL 3 kg/m POSTS OR 45 mm SQUARE STEEL WITH 50 mm ANCHOR SHALL BE USED. POST SHALL BE A MINIMUM OF 2.4 m.

SIGN DETAIL SHEET 7

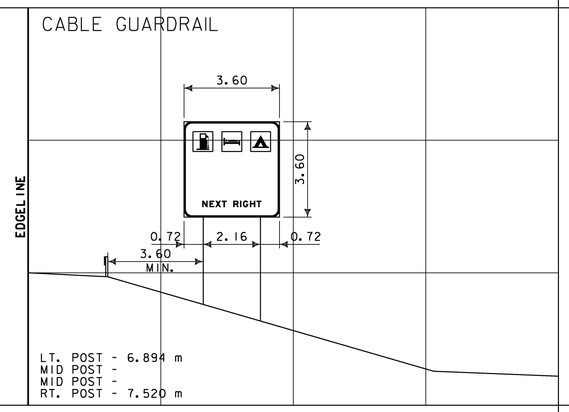
PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-details.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 78 OF 88

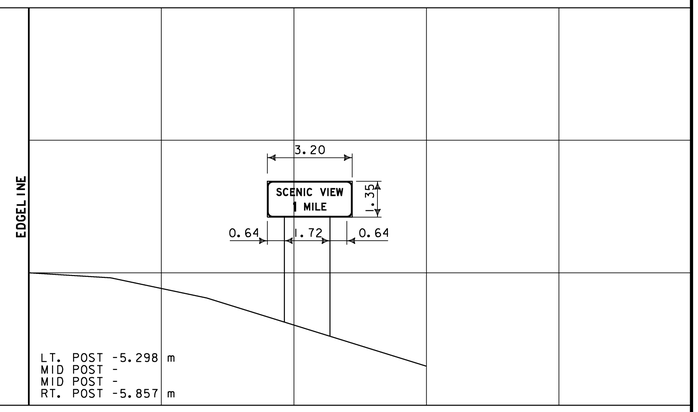
M.M. 119.240 NB



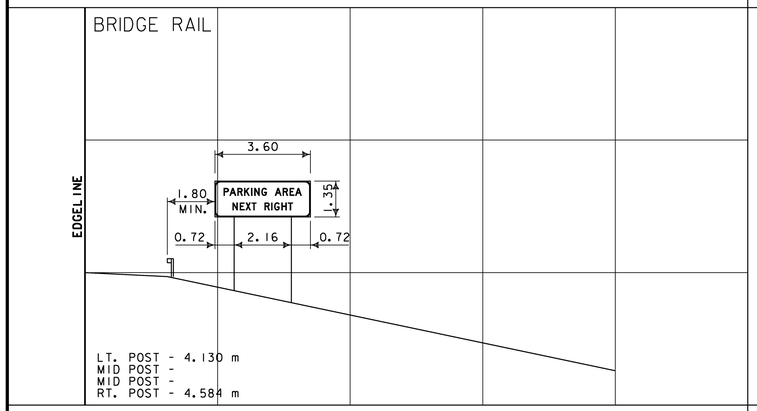
M.M. 119.950 NB



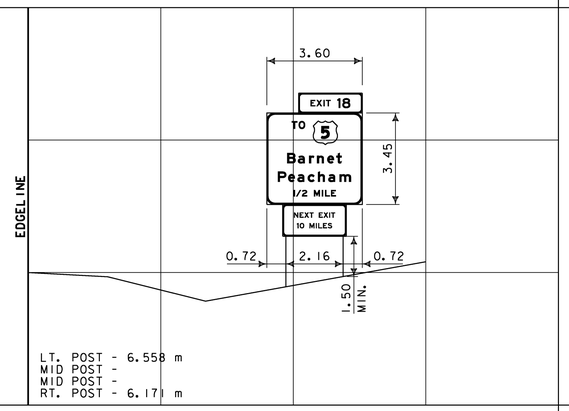
M.M. 120.930 NB



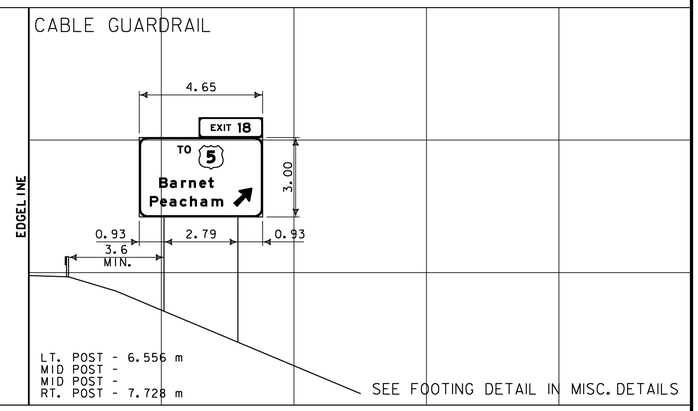
M.M. 113.140 NB



M.M. 119.731 NB

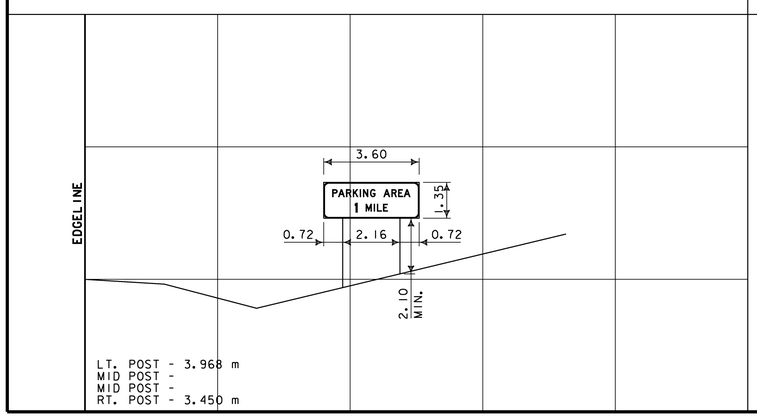


M.M. 120.170 NB

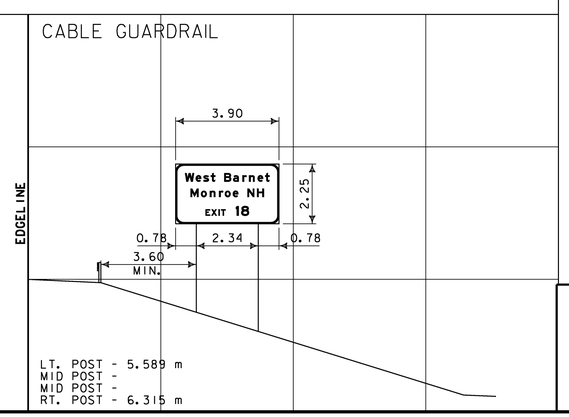


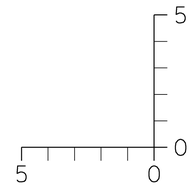
SEE FOOTING DETAIL IN MISC. DETAILS

M.M. 112.150 NB



M.M. 119.480 NB





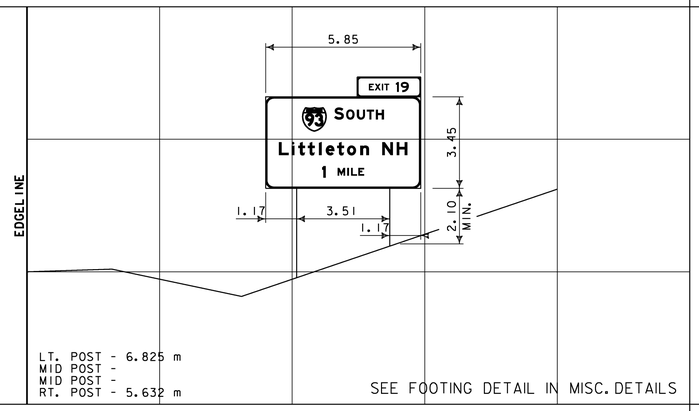
DIMENSIONS FOR CRITICAL OFFSETS OR CLEARANCES SHOWN FOR CONVENIENCE. REFER TO STANDARD SHEETS FOR PLACEMENT GUIDELINES.

SIGN CROSS SECTION SHEET 1

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-xs.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 79 OF 88

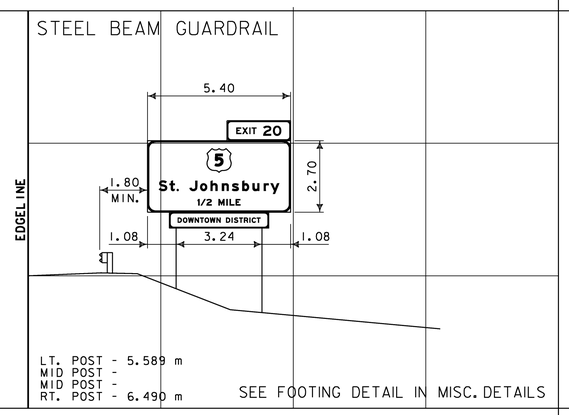
M.M. 127.220 NB



LT. POST - 6.825 m
MID POST -
MID POST -
RT. POST - 5.632 m

SEE FOOTING DETAIL IN MISC. DETAILS

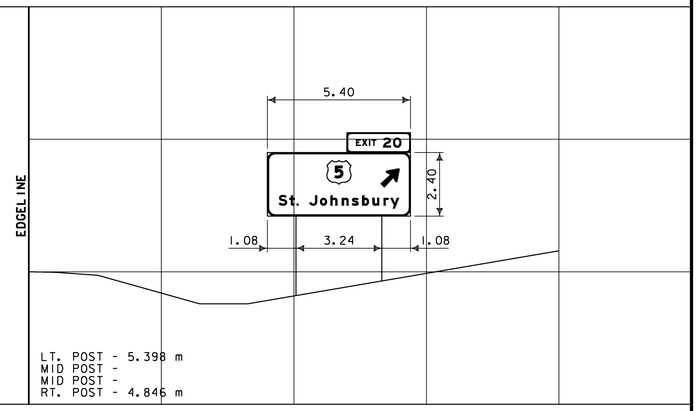
M.M. 128.225 NB



LT. POST - 5.589 m
MID POST -
MID POST -
RT. POST - 6.490 m

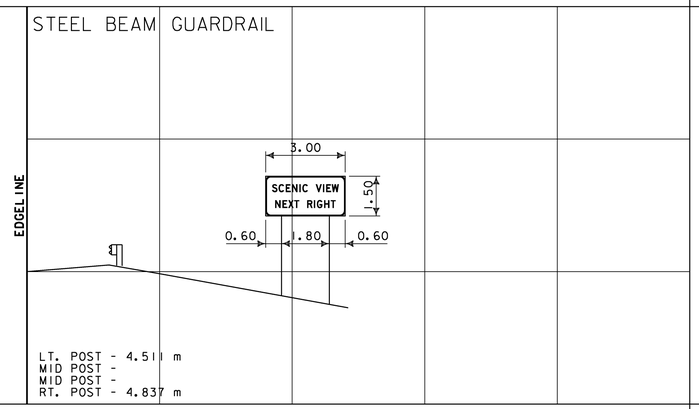
SEE FOOTING DETAIL IN MISC. DETAILS

M.M. 128.700 NB



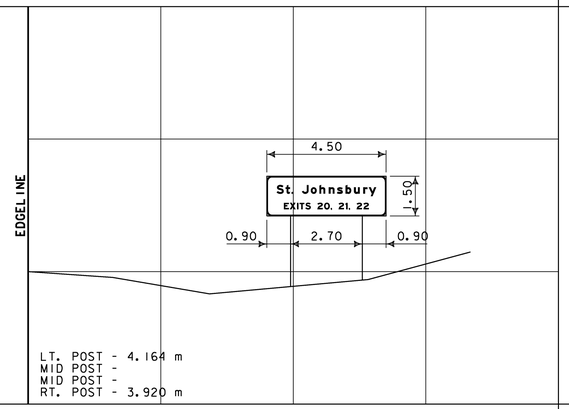
LT. POST - 5.398 m
MID POST -
MID POST -
RT. POST - 4.846 m

M.M. 121.440 NB



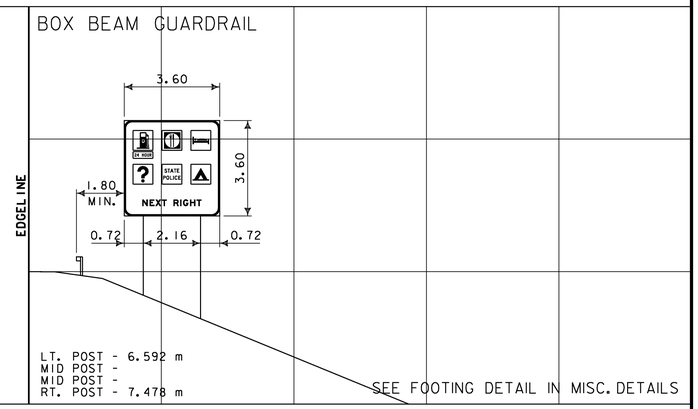
LT. POST - 4.511 m
MID POST -
MID POST -
RT. POST - 4.837 m

M.M. 127.800 NB



LT. POST - 4.164 m
MID POST -
MID POST -
RT. POST - 3.920 m

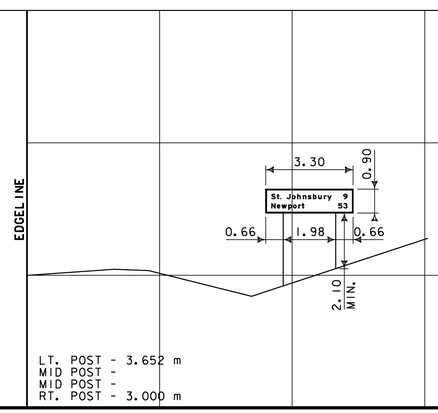
M.M. 128.550 NB



LT. POST - 6.592 m
MID POST -
MID POST -
RT. POST - 7.478 m

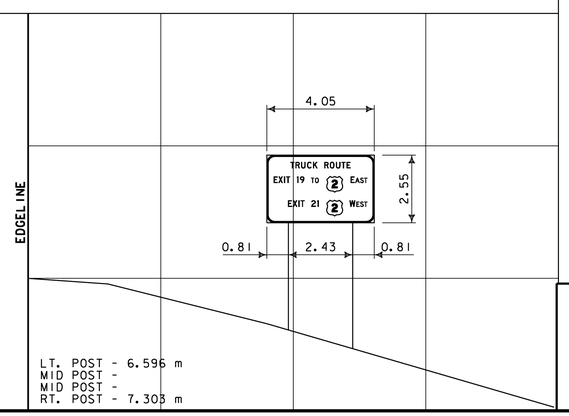
SEE FOOTING DETAIL IN MISC. DETAILS

M.M. 121.260 NB

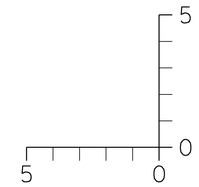


LT. POST - 3.652 m
MID POST -
MID POST -
RT. POST - 3.000 m

M.M. 127.420 NB



LT. POST - 6.596 m
MID POST -
MID POST -
RT. POST - 7.303 m



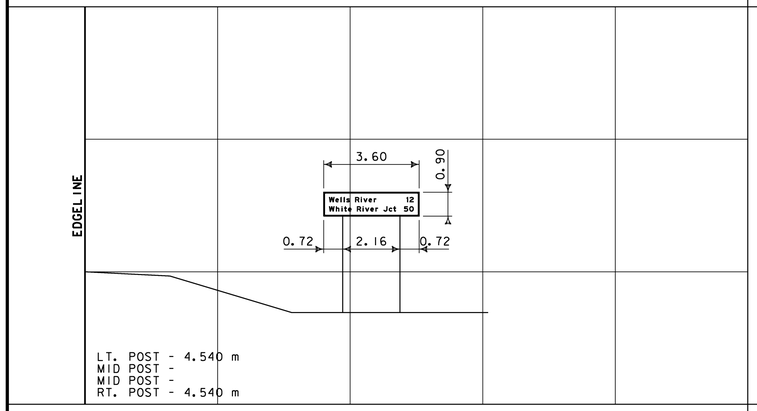
DIMENSIONS FOR CRITICAL OFFSETS OR CLEARANCES SHOWN FOR CONVENIENCE. REFER TO STANDARD SHEETS FOR PLACEMENT GUIDELINES.

SIGN CROSS SECTION SHEET 2

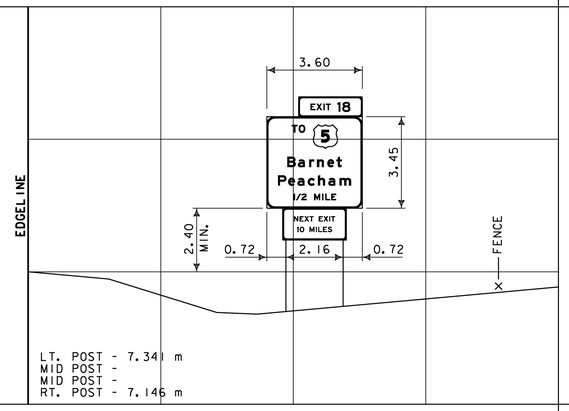
PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-xs.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 80 OF 88

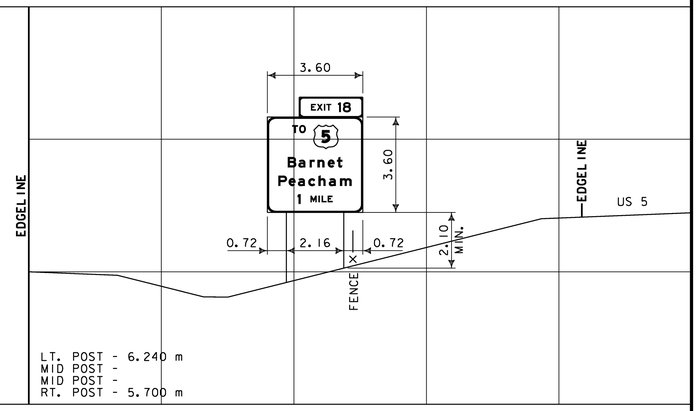
M.M. 119.603 SB



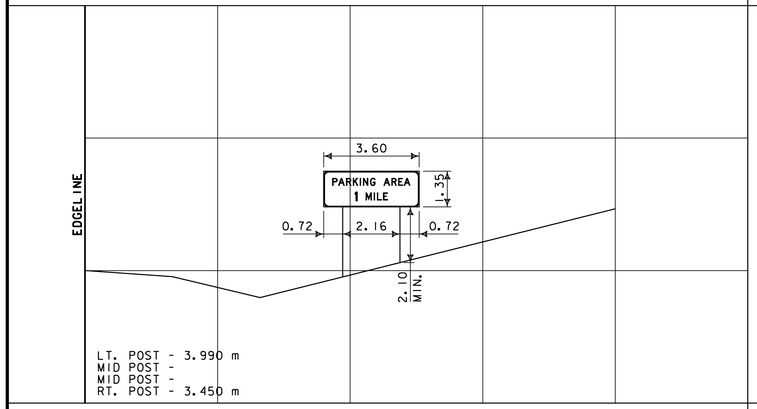
M.M. 121.200 SB



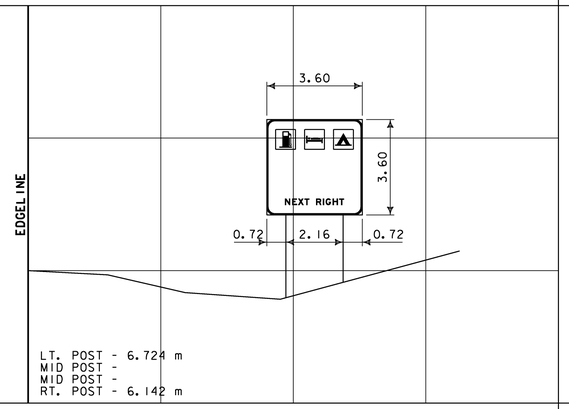
M.M. 121.700 SB



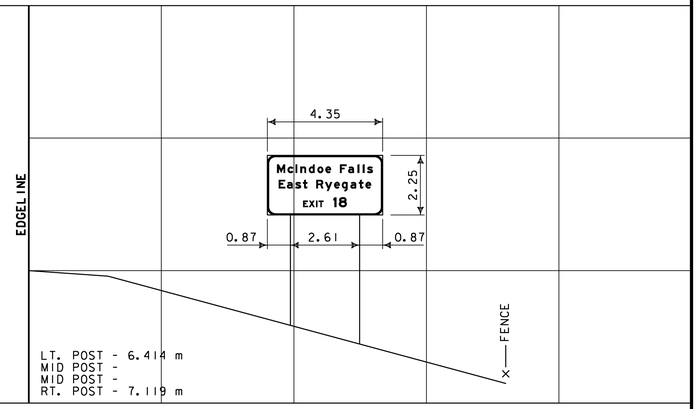
M.M. 116.430 SB



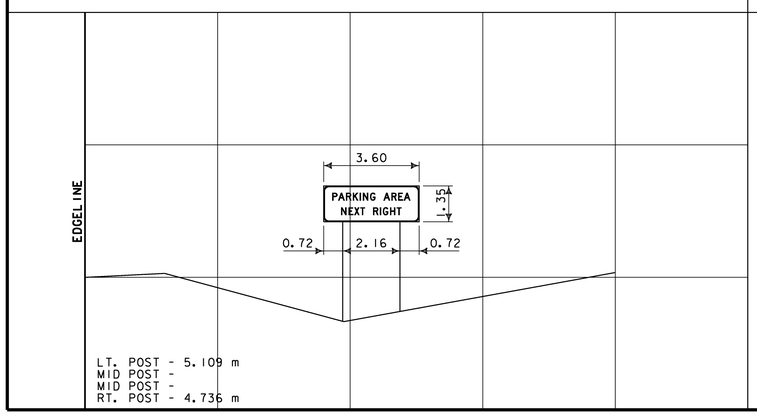
M.M. 120.940 SB



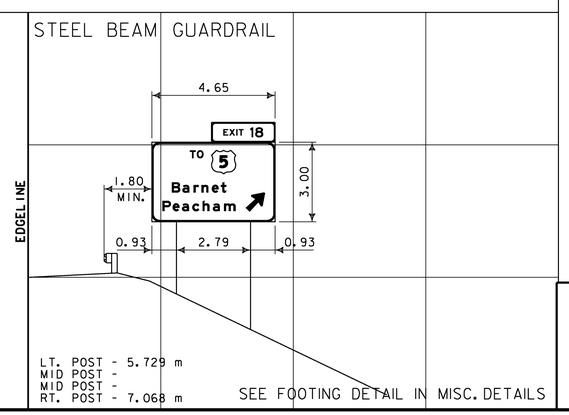
M.M. 121.450 SB



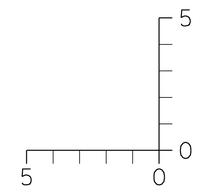
M.M. 115.700 SB



M.M. 120.700 SB



SEE FOOTING DETAIL IN MISC. DETAILS



DIMENSIONS FOR CRITICAL OFFSETS OR CLEARANCES SHOWN FOR CONVENIENCE. REFER TO STANDARD SHEETS FOR PLACEMENT GUIDELINES.

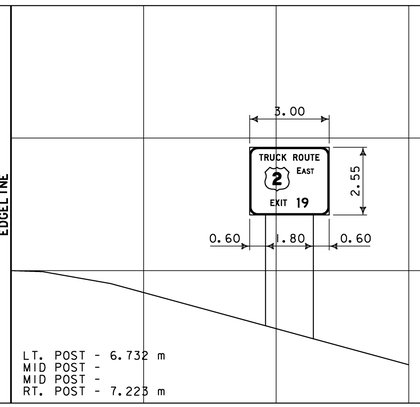
SIGN CROSS SECTION SHEET 3

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

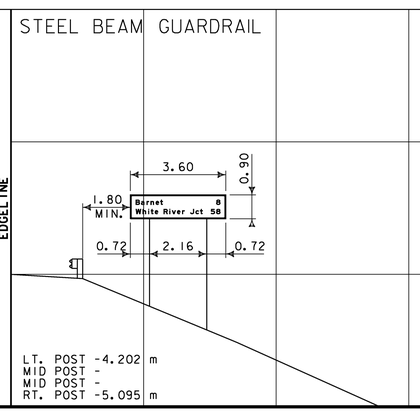
FILE NAME: 97194s-xs.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 81 OF 88

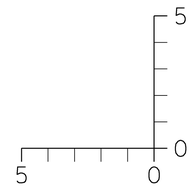
EDGELINE

M.M. 128.810 SB



M.M. 127.195 SB





DIMENSIONS FOR CRITICAL OFFSETS OR CLEARANCES SHOWN FOR CONVENIENCE. REFER TO STANDARD SHEETS FOR PLACEMENT GUIDELINES.

SIGN CROSS SECTION SHEET 4

PROJECT NAME: RYEGATE-ST. JOHNSBURY
PROJECT NUMBER: IM 091-2(73)

FILE NAME: 97194s-xs.dgn
PROJECT LEADER: CRB
DESIGNED BY: DAM
CLD REF. NO.: 97-0194
PLOT DATE: 12/13/2006
DRAWN BY: JCS
CHECKED BY: DAM
SHEET 82 OF 88

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 2001, WITH CURRENT MODIFICATIONS.

2. OVERHEAD SIGN/SIGNAL SUPPORTS SHALL CONFORM TO AASHTO'S PUBLICATION ENTITLED "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", DATED 2001 OR ITS LATEST EDITION.

3. ADDITIONAL DESIGN CRITERIA ARE AS FOLLOWS:

   CONCRETE f_c = 10 MPa f'_c = 25 MPa
   REINFORCING f_s = 165 MPa (GRADE 420)
   FOOTING SOIL PRESSURE : 145 kPa (MAXIMUM)

   WIND LOAD AND ICE LOAD PER AASHTO "STANDARD SPECIFICATIONS"

4. ANCHOR BOLTS

   FOUR STAINLESS STEEL ANCHOR BOLTS WITH TWO HEXAGON NUTS, ONE WASHER AND ONE LOCK WASHER PER BOLT SHALL BE FURNISHED WITH EACH POLE. ANCHOR BOLT PLATES, WHEN USED, SHALL ALSO BE STAINLESS STEEL. SEE SUB-SECTION 714.09.

5. FLANGE BOLTS

   ALL FLANGE BOLTS AND HEX NUTS SHALL BE HIGH STRENGTH STEEL AND SHALL CONFORM TO ASTM A 325M. THE FLANGE BOLTS SHALL BE CAPABLE OF RESISTING 133% OF THE FULL DESIGN STRESS OF THE TUBE AT ITS YIELD STRENGTH STRESS.

6. HORIZONTAL AND VERTICAL MEMBERS

   STEEL TUBES SHALL BE FORMED AND WELDED WITH ONE CONTINUOUS LONGITUDINAL WELD ONLY. AFTER FORMING AND WELDING THEY SHALL BE COLD ROLLED TO ENSURE UNIFORMITY OF SIZE AND SMOOTHNESS OF WELD. THEY SHALL HAVE A MINIMUM YIELD STRENGTH OF 330 MPa. THERE SHALL BE NO TRANSVERSE WELDING EXCEPT AT THE FLANGE CONNECTIONS AND POLE BASE PLATES, WHERE THE TUBES SHALL TELESCOPE THE FLANGES AND PLATES AND BE CONTINUOUSLY WELDED BOTH SIDES INSIDE AND OUT TO WITHSTAND THE FULL TRANSFER OF THE BENDING STRENGTH TO THE BOLTS.

7. GALVANIZING

   ALL STEEL COMPONENTS, EXCEPT CONCRETE REINFORCING AND STAINLESS STEEL HARDWARE, ARE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION. THE ASSEMBLIES SHALL BE DESIGNED AND FABRICATED TO PERMIT GALVANIZING ON ALL INTERIOR AND EXTERIOR SURFACES AND SHALL BE FREE OF POCKETS AND OTHER STRUCTURAL OBSTRUCTIONS THAT WILL NOT PERMIT PROPER DEPOSITION OF ZINC COATING. GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM A 123 M AND ASTM A 153 M.

8. WELDING

   A. ALL DESIGN DETAILS, WORKMANSHIP, PROCEDURES AND INSPECTION SHALL CONFORM WITH SUB-SECTION 506.10.

   B. ALL WELDS SHALL BE AT LEAST AS STRONG AS THE MATERIAL(S) BEING WELDED.

9. FOOTINGS

   A. FOOTINGS SHALL BE DESIGNED TO RESIST LOADS EQUAL TO, OR GREATER THAN, THE MAXIMUM LOADS THAT THE POLE IS DESIGNED FOR.

   B. THREE TYPES OF FOUNDATIONS, AS OUTLINED IN AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2) SECTION 1.8.2 (C) SHALL BE ALLOWED.

      1. DRILLED SHAFTS,
      2. SPREAD FOOTINGS AND
      3. PILES.

   C. DRILLED SHAFT FOOTINGS SHALL BE POURED IN DRILLED SHAFTS AGAINST UNDISTURBED MATERIAL. THE TOP 600 mm OF SOIL SHALL BE NEGLECTED FOR DESIGN PURPOSES.

   D. AS AN ALTERNATIVE TO THE DRILLED HOLES, FOOTINGS MAY BE POURED IN EXCAVATED HOLES USING THE PROPER FORMS, WHICH MUST BE REMOVED. THE EXCAVATED HOLES SHALL BE AT LEAST 600 mm CLEAR OF THE FOOTING SIDES AND 300 mm DEEPER THAN THE FOOTING. CARE SHALL BE TAKEN TO AVOID EXCAVATING AROUND THE TOP OF THE FOOTING. THE BACKFILL MATERIAL SHALL BE COMPACTED AS DESCRIBED IN SUB-SECTION 204.12. DESIGN LIMITS AS FOR AUGERED FOOTING APPLY.

   E. WHERE THE DESIGN DEPTH OF A FOOTING CANNOT BE OBTAINED DUE TO UNFORSEEN FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN A REVISED FOOTING DETAIL FROM THE ENGINEER.

   F. ANY BACKFILL PLACED ADJACENT TO THE FOOTING SHALL BE GRANULAR MATERIAL MEETING THE REQUIREMENTS FOR GRANULAR BACKFILL FOR STRUCTURES, SUB-SECTION 704.08. CONCRETE FOR FOOTING SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE, CLASS B, SECTION 501, STRUCTURAL CONCRETE. GROUT MATERIAL SHALL BE NON-SHRINKING MORTAR CONFORMING TO SUB-SECTION 707.03 (MORTAR TYPE IV).

   G. SIGNALS/SIGNS SHALL BE INSTALLED AND LEVELED AND POLES SHALL BE PLUMB PRIOR TO PLACING GROUT UNDER POLE BASE.

10. SHOP DRAWINGS (6 COPIES OF EACH) SHALL BE SUBMITTED TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION, STRUCTURES SECTION FOR APPROVAL PRIOR TO FABRICATION.
    THE SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION:

    A. DETAILED DRAWING OF EACH COMPONENT OF THE STRUCTURE.

    B. MATERIAL SPECIFICATION FOR EACH COMPONENT OF THE STRUCTURE, EITHER BY COMPLETE SPECIFICATION OR REFERENCE TO APPLICABLE ASTM STANDARDS.

    C. NOTATION OF PROJECT NAME, PROJECT NUMBER, ROUTE NUMBER AND STRUCTURE STATIONING (TO BE INCLUDED ON EACH SHEET).

    D. DETAILS FOR LOCATION OF SIGNS/SIGNALS AND ATTACHMENT HARDWARE FOR THE SUPPORT STRUCTURE.

    E. ALL ELEVATIONS AND DIMENSIONS NECESSARY TO PROVIDE A COMPLETE SET OF RECORD PLANS.

    F. DEAD LOAD DEFLECTION AND CAMBER INFORMATION.

    G. WELDING DETAILS AND PROCEDURES ARE REQUIRED FOR ALL WELDS. PROCEDURES SHALL BE SUBMITTED FOR APPROVAL WITH REFERENCE TO EACH WELD IDENTIFIED ON THE SHOP DRAWINGS. (SEE SUB-SECTION 506.10)

11. EACH OVERHEAD TRAFFIC SIGNAL/SIGN SUPPORT SHALL BE GROUNDED.
    THE GROUND SHALL CONSIST OF:
    A) AN INTERNAL GROUND LUG OPPOSITE THE HAND HOLE;
    B) A 13.30 mm^2 (MIN.) SOFT DRAWN COPPER GROUNDING ELECTRODE CONDUCTOR.
    C) A 16 X 2400 (MIN.) COPPER CLAD GROUNDING ELECTRODE.
    THE RESISTANCE TO GROUND SHALL BE 25 OHMS OR LESS. ADDITIONAL GROUNDING ELECTRODES MAY BE REQUIRED (MINIMUM SPACING SHALL BE 1800 mm).
    WHERE A POWER SERVICE, METER AND DISCONNECT ARE ATTACHED TO A POLE, THERE SHALL BE A CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE METER AND DISCONNECT WHICH MAY RUN INTERNAL TO THE UPRIGHT, THROUGH THE DNIG FLEXIBLE TUBING IN THE CONCRETE BASE TO THE REQUIRED GROUNDING ELECTRODE(S). THE GROUNDING ELECTRODE CONDUCTOR FROM THE POLE GROUNDING LUG, CONTROLLER CABINET AND/OR LUMINAIRE MAY ATTACH TO THIS CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE SERVICE METER AND DISCONNECT. THE CONTRACTOR SHALL PERFORM A RESISTANCE TO GROUND TEST ON THE CONTINUOUS GROUNDING ELECTRODE CONDUCTOR FROM THE SERVICE METER AND DISCONNECT AND PROVIDE A WRITTEN STATEMENT TO THE AREA ELECTRICAL INSPECTOR THAT THE GROUNDING ELECTRODE CONDUCTOR IS CONTINUOUS FROM THE SERVICE METER AND DISCONNECT AND THE RESISTANCE TO GROUND IS 25 OHMS OR LESS.

12. THE COST OF SIGNAL/SIGN SUPPORTS, INCLUDING ALL HARDWARE, SIGN BRACKETS, FOOTINGS AND LUMINAIRE ARMS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 677.12, 677.13 OR 678.15, WHICHEVER IS APPLICABLE. THESE COMPONENTS SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF SECTIONS 677, 678 AND 679.

13. HORIZONTAL MEMBERS SHALL BE CAMBERED AND THE VERTICAL POLES BACK-RAKED (WHERE APPLICABLE) TO THE ANTICIPATED DEAD LOAD DEFLECTION PLUS THE CAMBER, IF ANY, SPECIFIED ON THE PLANS.

14. AN EQUIVALENT ALTERNATE DESIGN MAY BE SUBSTITUTED FOR THE DETAILS AND MATERIALS SHOWN.

15. THE DETAILS OF DESIGN FOR THE STRUCTURE AND FOOTINGS ARE TO BE SUPPLIED BY THE CONTRACTOR AND/OR BY THE MANUFACTURER. THE STRUCTURE SHALL BE DESIGNED TO RESIST THE MAXIMUM LOADING AS OUTLINED IN THE AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2). ALL DETAILS OF THE STRUCTURE AND THE FOOTING SHALL BE CHECKED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF VERMONT PRIOR TO SUBMITTAL OF THE SHOP DRAWINGS TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION.

16. IN ADDITION TO THE SHOP DRAWINGS OUTLINED IN NOTE 10, THE CONTRACTOR SHALL SUBMIT ALL DESIGN CALCULATIONS TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION, STRUCTURES SECTION, SHOWING THE FOLLOWING INFORMATION FOR EACH OF THE VERTICAL AND HORIZONTAL COMPONENTS OF THE STRUCTURE AND FOOTING:

    A. THE DESIGN AXIAL AND SHEAR FORCES AND BENDING AND TORSIONAL MOMENTS.

    B. THE DESIGN AXIAL, BENDING AND SHEAR STRESSES AND THE COMBINED STRESS RATIO.

    C. VIBRATION AND FATIGUE CALCULATIONS AS SET FORTH IN SECTION 9 OF THE AASHTO PUBLICATION REFERENCED IN NOTE 2.

    D. THE ALLOWABLE AXIAL, BENDING, AND SHEAR STRESSES.

    E. ITEMS A, B AND D SHALL BE SHOWN FOR EACH OF THE GROUP LOADINGS (I, II AND III) AND FOR THE BASIC WIND LOAD APPLIED TO THE TWO CASES OUTLINED IN THE AASHTO STANDARD SPECIFICATIONS (SEE NOTE 2) SECTION 1.2.5 (D)(4).

    F. FAILURE TO SUPPLY THE PROPER DESIGN INFORMATION SHALL BE CAUSE FOR REJECTION OF THE STRUCTURE.

    G. A MINIMUM OF FOUR (4) WEEKS SHALL BE REQUIRED FOR REVIEW BY THE STATE OF VERMONT AGENCY OF TRANSPORTATION STRUCTURES ENGINEER IN ACCORDANCE WITH SUBSECTION 105.03.

17. THE CONTRACTOR/MANUFACTURER SHALL BE RESPONSIBLE FOR COMPLETION OF THE STRUCTURE AND FOOTING DATA ON THE DETAIL SHEET(S).

18. FOR INSTALLATIONS WHERE BOTH "EXISTING" AND "FUTURE" CONDITIONS ARE SHOWN, THE SUPPORTS SHALL BE DESIGNED FOR THE MORE SEVERE OF THE TWO LOADING CONDITIONS. THE INFORMATION OUTLINED IN NOTE 16 ABOVE SHALL BE PROVIDED FOR BOTH THE LOADING CONDITIONS.

19. NOT USED.

20. BASE PLATES SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER, HEIGHT, YIELD STRENGTH, GAUGE AND THE HORIZONTAL MEMBER DIAMETER, LENGTH, YIELD STRENGTH AND GAUGE. ALTERNATELY, THE INFORMATION MAY BE STAMPED ON A METAL TAG RIVETED TO THE POLE NEAR THE HANDHOLE.

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT WHERE NOTED.

VAOT Metric

ORIGINAL PREPARED - JUNE 13, 1997		
DATE	REVISIONS	BY

CANTILEVER / OVERHEAD SIGN SUPPORT NOTES

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
DESIGN SUPERVISOR _____ DATE _____
PROJ.

TRAFFIC SHEET NO. _____ OF _____
SHEET 83 OF 88 SHEETS

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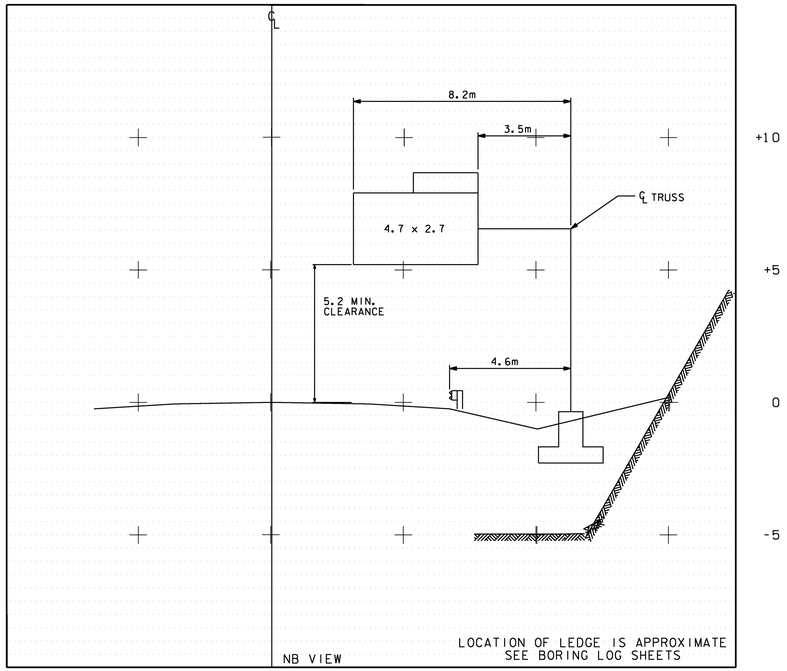
cantnote.l
PLOTTED: 12/15/2006



(SEE SHEET 24 FOR LOCATION PLAN)

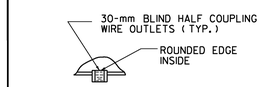
0 5 10

SCALE IN METERS

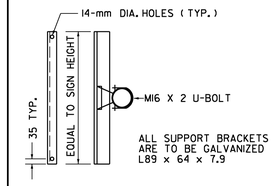
OVERHEAD SIGN BRIDGE CROSS SECTION

NOTES:

1. SEE CANTILEVER / OVERHEAD SIGN / SIGNAL SUPPORTS NOTE SHEET FOR ADDITIONAL INFORMATION.
2. MONOTUBES SHALL NOT BE USED FOR SIGNS OVER 3 m IN HEIGHT.
3. STREET LIGHTING IS OPTIONAL. SEE PLAN SHEETS OR SECTION.
4. MINIMUM CLEARANCE FROM SIGNS TO ROADWAY IS 5.2 m.

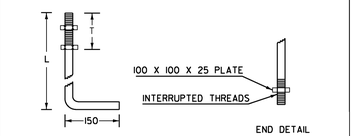


DETAIL A

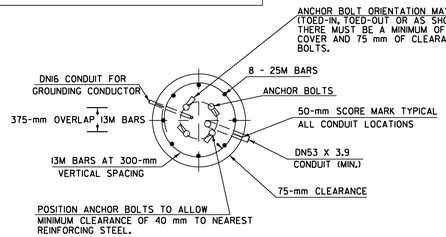


SIGN BRACKET DETAILS

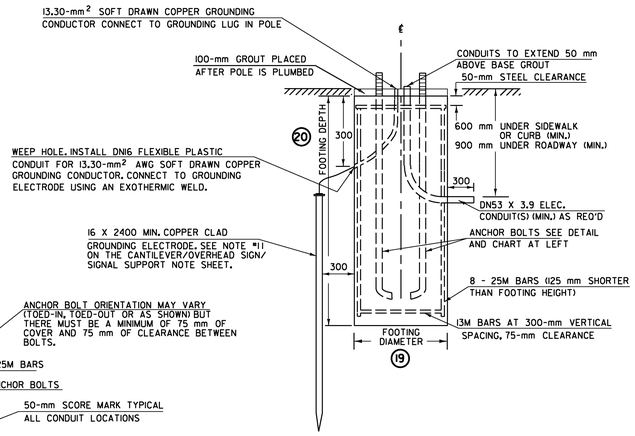
ANCHOR BOLT DETAIL		
SIZE	L (mm)	T (mm)
M30 X 3.5 X 1200	1050	200
M36 X 4 X 1500	1350	230
M42 X 4.5 X 2250	2100	230
M48 X 5 X 2400	2400	230



ANCHOR BOLT DETAIL



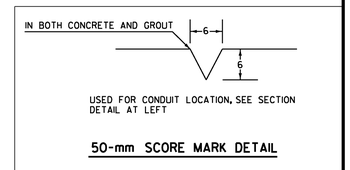
SECTION



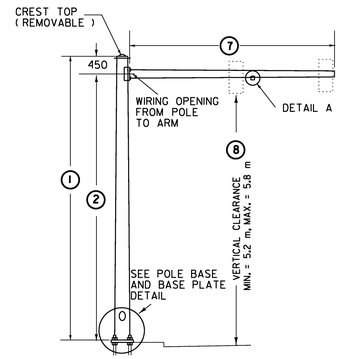
ELEVATION

CANTILEVER FOOTING DETAIL

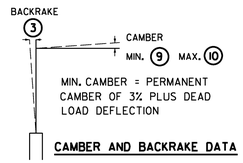
(SPREAD FOOTINGS OR PILES ARE OPTIONAL)



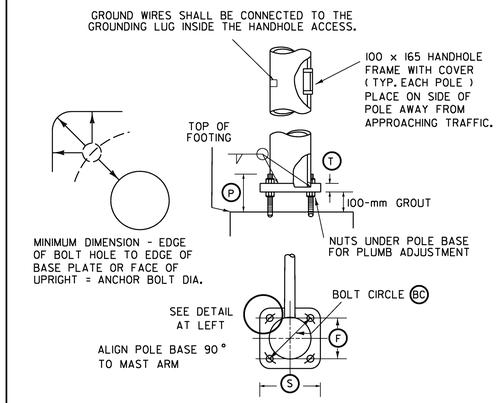
50-mm SCORE MARK DETAIL



TYPE A



CAMBER AND BACKRAKE DATA



POLE BASE AND BASE PLATE DETAIL

SEE SHEET(S) FOR CROSS SECTIONS

STRUCTURE DIMENSIONS

POLE DATA								ARM DATA							LIGHTING DATA					FOOTING DATA		BASE PLATE / BOLT DATA					
POLE	TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	BC	F	S	T	P	ANCHOR BOLT SIZE

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT WHERE NOTED.

NOT TO SCALE

DATE	REVISIONS	BY

OVERHEAD TRAFFIC SIGN BRIDGE / FOOTING DETAIL SHEET #1

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
DESIGN SUPERVISOR _____ DATE _____
PROJ.

M.M. 127.628 NB

TRAFFIC SHEET NO. _____ OF _____
SHEET 84 OF 88 SHEETS

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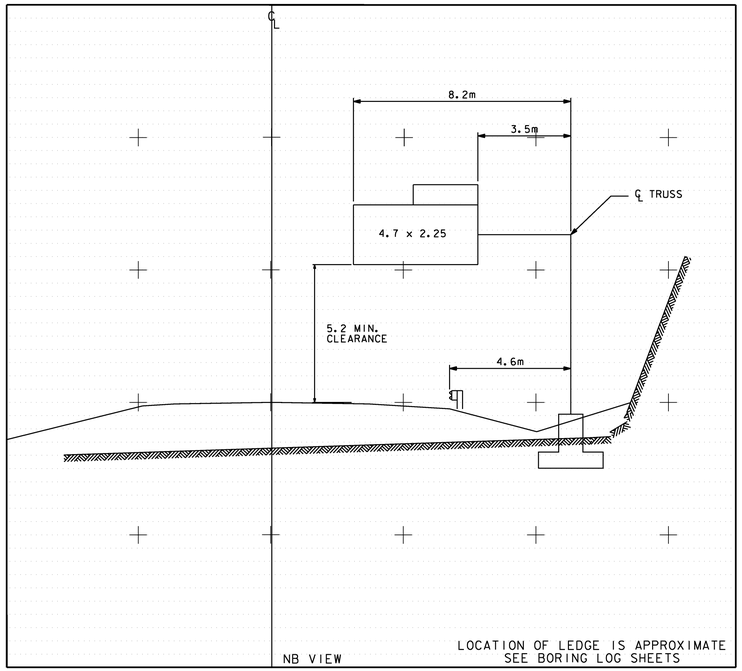
PLOTTED: 12/15/2006



(SEE SHEET 24 FOR LOCATION PLAN)

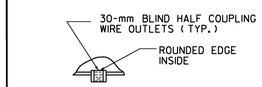
0 5 10

SCALE IN METERS

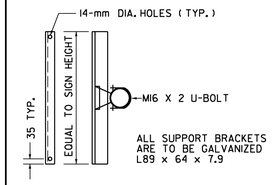
OVERHEAD SIGN BRIDGE CROSS SECTION

NOTES:

1. SEE CANTILEVER / OVERHEAD SIGN / SIGNAL SUPPORTS NOTE SHEET FOR ADDITIONAL INFORMATION.
2. MONOTUBES SHALL NOT BE USED FOR SIGNS OVER 3 m IN HEIGHT.
3. STREET LIGHTING IS OPTIONAL. SEE PLAN SHEETS OR SECTION.
4. MINIMUM CLEARANCE FROM SIGNS TO ROADWAY IS 5.2 m.

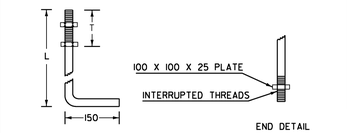


DETAIL A

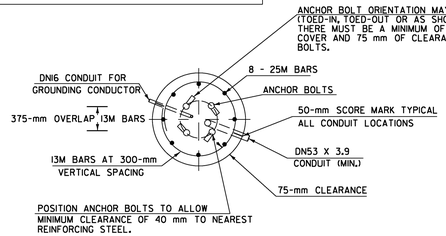


SIGN BRACKET DETAILS

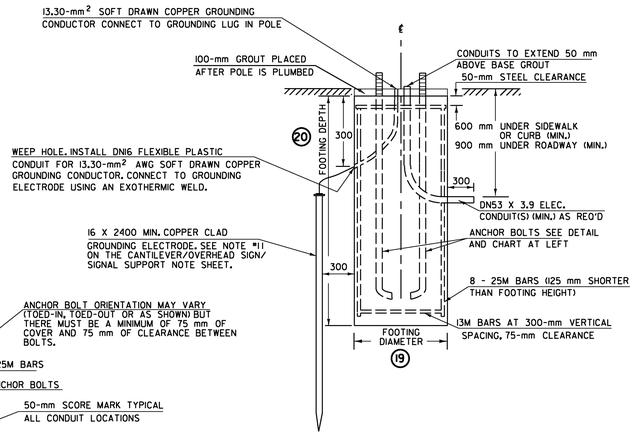
ANCHOR BOLT DETAIL		
SIZE	L (mm)	T (mm)
M30 X 3.5 X 1200	1050	200
M36 X 4 X 1500	1350	230
M42 X 4.5 X 2250	2100	230
M48 X 5 X 2400	2400	230



ANCHOR BOLT DETAIL



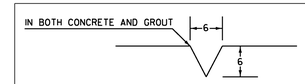
SECTION



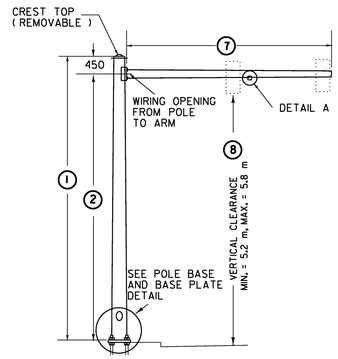
ELEVATION

CANTILEVER FOOTING DETAIL

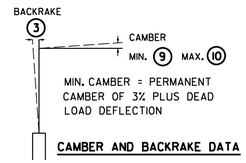
(SPREAD FOOTINGS OR PILES ARE OPTIONAL)



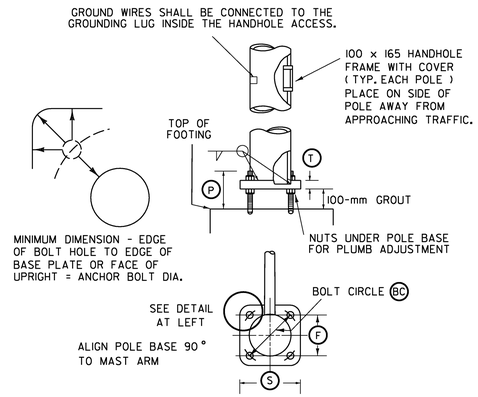
50-mm SCORE MARK DETAIL



TYPE A



CAMBER AND BACKRAKE DATA



POLE BASE AND BASE PLATE DETAIL

SEE SHEET(S) FOR CROSS SECTIONS

STRUCTURE DIMENSIONS																									
POLE DATA								ARM DATA							LIGHTING DATA					FOOTING DATA		BASE PLATE / BOLT DATA					
POLE	TYPE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	BC	F	S	T	P	ANCHOR BOLT SIZE

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT WHERE NOTED.

NOT TO SCALE

DATE	REVISIONS	BY

OVERHEAD TRAFFIC SIGN BRIDGE / FOOTING DETAIL SHEET #2

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
DESIGN SUPERVISOR _____ DATE _____
PROJ.

M.M. 127.980 NB

TRAFFIC SHEET NO. _____ OF _____
SHEET 85 OF 88 SHEETS

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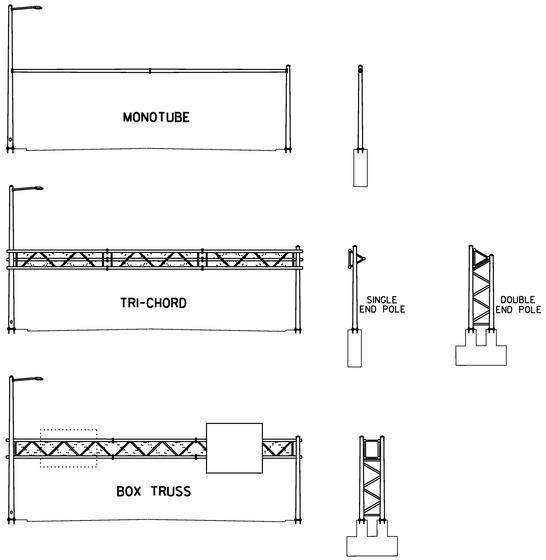
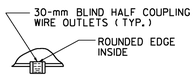
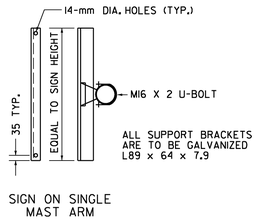
PLOTTED: 12/15/2006



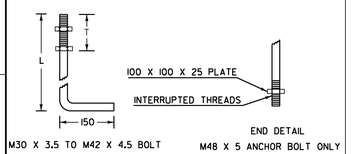


DETAIL A

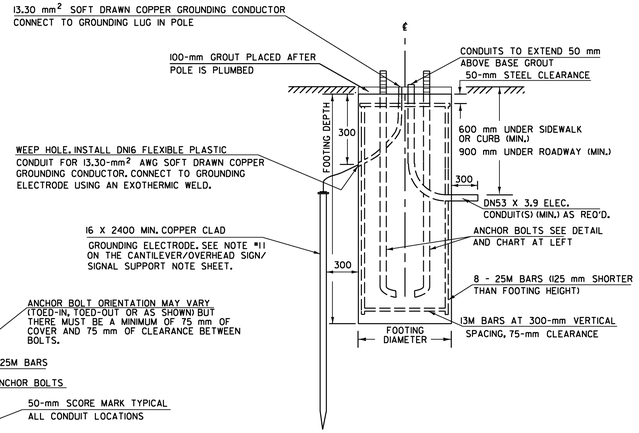


SIGN BRACKET DETAILS

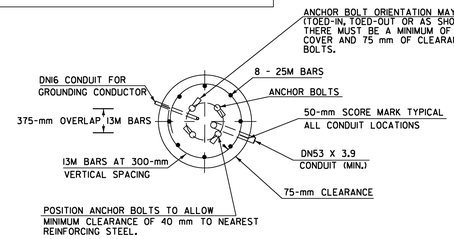
ANCHOR BOLT DETAIL		
SIZE	L (mm)	T (mm)
M30 X 3.5 X 1200	1050	200
M36 X 4 X 1500	1350	230
M42 X 4.5 X 2250	2100	230
M48 X 5 X 2400	2400	230



ANCHOR BOLT DETAIL



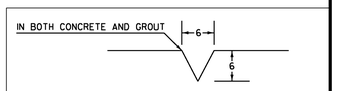
ELEVATION



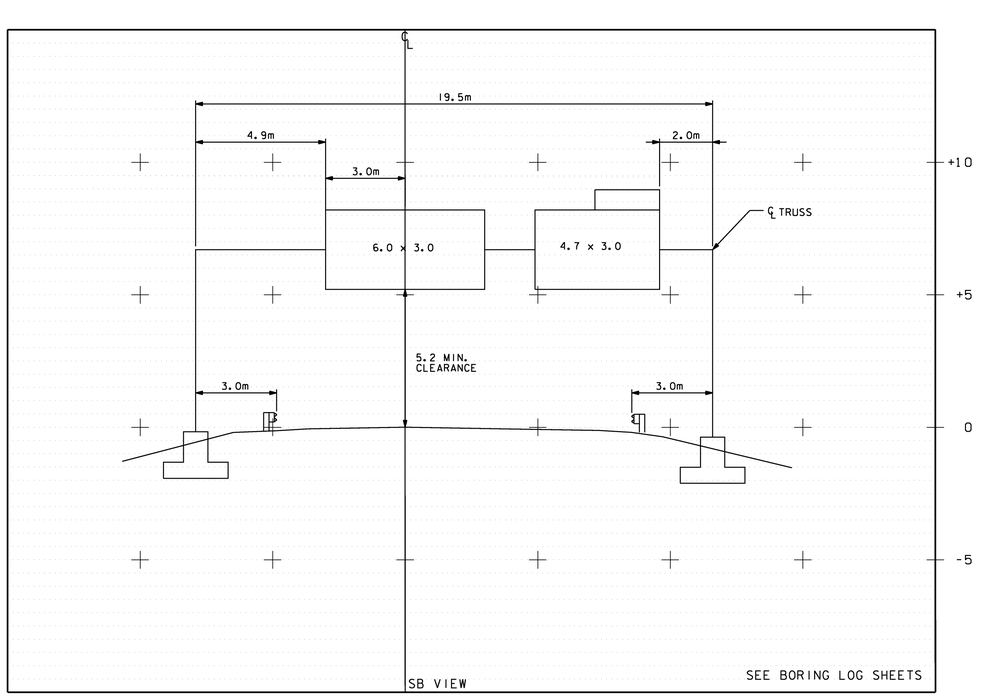
SECTION

OVERHEAD TRAFFIC SIGN BRIDGE FOOTING DETAIL

(SPREAD FOOTINGS OR PILES ARE OPTIONAL)



50-mm SCORE MARK DETAIL



(SEE SHEET 31 FOR LOCATION PLAN)

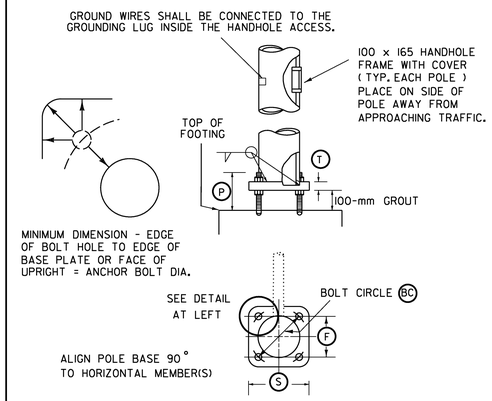
0 5 10

SCALE IN METERS

OVERHEAD SIGN BRIDGE CROSS SECTION

NOTES:

1. SEE CANTILEVER / OVERHEAD SIGN / SIGNAL SUPPORTS NOTE SHEET FOR ADDITIONAL INFORMATION.
2. MANUFACTURER TO DETERMINE TYPE OF STRUCTURE REQUIRED.
3. MONOTUBES SHALL NOT BE USED FOR SIGNS OVER 3 m IN HEIGHT.
4. STREET LIGHTING IS OPTIONAL. SEE PLAN SHEETS OR SECTION.
5. MINIMUM CLEARANCE FROM SIGNS TO ROADWAY IS 5.2 m.



POLE BASE AND BASE PLATE DETAIL

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT WHERE NOTED.

MTO Metric

DATE	REVISIONS	BY

NOT TO SCALE

OVERHEAD TRAFFIC SIGN BRIDGE / FOOTING DETAIL SHEET #3

PREPARED BY _____ DATE _____
CHECKED BY _____ DATE _____
DESIGN SUPERVISOR _____ DATE _____
PROJ.

M.M. 128.700 SB

TRAFFIC SHEET NO. _____ OF _____

SHEET 86 OF 88 SHEETS

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PLOTTED:12/15/2006

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: B-1
SHEET 1 OF 1
DATE STARTED: 6/18/02
DATE COMPLETED: 6/18/02

PROJECT NAME: RYEGATE - St. JOHNSBURY PROJECT NUMBER: IMR 091-2 (8)
SITE NAME: OVERHEAD SIGNS SITE NO.: I-91
STATION: MM 127.628 NORTHBOUND OFFSET: RIGHT SIDE
GROUND EL.: NA G.W. DEPTH: Hole caved in @ 6.0'

BORING CREW
CREW CHIEF: YOUNG BORING RIG: TRACK RIG
DRILLER: YOUNG BORING TYPE: WASH BORE
LOGGER: SOMERS SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-1-b, GrSa, brn, Moist, Rec. = 1.25'	7	8.1	25.6	59.6	14.8		
			Grass & Roots were within sample.						
		NXDC, 2.25'-3.25', Boulder							
		A-1-b, SiGrSa, gry, Moist, Rec. = 1.0'	25	14.3	37.3	38.1	24.6		
5		A-2-4, GrSiSa, brn, Moist Rec. = 1.6'	12	9.5	20.7	49.8	29.5		
			Broken rock was within sample.						
		NXDC, 6.0'-6.5', Cleaned out casing, No Rec.							
		NXDC, 7.5'-10.0', Cleaned out casing, Boulders							
10		10.0'-12.0', No Sample.	17						
			Top of bedrock @ 13.0'						
			RUN	REC%	ROD%	Dip°			
		Run#1: NXGDC, 13.0'-15.6', Rec. = 2.33' See Geologist's Report.	1	90	19	70			
15		Run#2: NXGDC, 15.6'-18.6', Rec. = 2.80' See Geologist's Report.	2	93	80	70			
			Hole stopped @ 18.6'						
20									

Geologist's Report:

Run#1: Gray metaquartzite, Hard to very hard, Unweathered, Poor RQD.

Run#2: Same as Run#1, but Competent.

25 30 35 40 45

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: B-2
SHEET 1 OF 1
DATE STARTED: 6/18/02
DATE COMPLETED: 6/18/02

PROJECT NAME: RYEGATE - St. JOHNSBURY PROJECT NUMBER: IMR 091-2 (8)
SITE NAME: OVERHEAD SIGNS SITE NO.: I-91
STATION: MM 127.980 NORTHBOUND OFFSET: RIGHT SIDE
GROUND EL.: NA G.W. DEPTH: Hole caved in @ 5.0'

BORING CREW
CREW CHIEF: YOUNG BORING RIG: TRACK RIG
DRILLER: YOUNG BORING TYPE: WASH BORE
LOGGER: SOMERS SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-1-b, Sa, brn, Moist, Rec. = 1.6'	6	7.3	15	72.3	12.7		
			Grass & Roots were within sample.						
		Visual Class: A-1-b, SiSaGr brn, Moist, Rec. = 0.15'	R		Top of bedrock @ 2.8'				
			RUN	REC%	ROD%	Dip°			
5		Run#1: NXGDC, 2.8'-5.8' Rec. = 1.7' See Geologist's Report.	1	57	33	50			
		Run#2: NXGDC, 5.8'-9.3' Rec. = 3.5', See Geologist's Report.	2	100	100	50			
10			Hole stopped @ 9.3'						
15									
20									

Geologist's Report:

Run#1: Gray meta quartzite and phytlite, Hard to moderately hard, Unweathered, Fair competency.

Run#2: Gray meta quartz, Hard to very hard, Unweathered, Competent.

25 30 35 40 45

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: B-3
SHEET 1 OF 1
DATE STARTED: 6/19/02
DATE COMPLETED: 6/19/02

PROJECT NAME: RYEGATE - St. JOHNSBURY PROJECT NUMBER: IMR 091-2 (8)
SITE NAME: OVERHEAD SIGNS SITE NO.: I-91
STATION: MM 127.980 NORTHBOUND OFFSET: LEFT SIDE
GROUND EL.: NA G.W. DEPTH: 9.0 (06/19/02)

BORING CREW
CREW CHIEF: YOUNG BORING RIG: TRACK RIG
DRILLER: YOUNG BORING TYPE: WASH BORE
LOGGER: SOMERS SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-1-b, SiGrSa, brn, Moist, Rec. = 1.25'	8	10.8	31.8	45.5	22.7		
			Grass & Roots were within sample.						
		A-1-a, SaGr, brn-gry, Moist, Rec. = 1.2'	30	8.2	67.8	20.1	12.1		
			Broken rock was within sample.						
		NXDC, 4.0'-5.0', Boulder	Top of bedrock @ 5.0'						
5			RUN	REC%	ROD%	Dip°			
		Run#1: NXGDC, 5.0'-9.0', Rec. = 3.0', See Geologist's Report.	1	75	0	70			
		Run#2: NXGDC, 9.0'-14.0', Rec. = 4.2', See Geologist's Report.	2	84	60	70			
10			Hole stopped @ 14.0'						
15									
20									

Geologist's Report:

Run#1: Gray meta quartzite, Hard, Unweathered, Poor RQD.

Run#2 Same as Run#1, but Competent.

25 30 35 40 45

SURVEYED BY _____ DATE _____
DRAWN BY J.TOUCHETTE DATE 07/02
SQUAD LEADER C.C. BENDA
DESIGN FILE NO. /M&R/87a023/ma023bor.dgn
IPARM FILE _____ DATE PLOTTED 12/13/2006
PROJ. NAME RYEGATE - St. JOHNSBURY
PROJ. NO. IM 091-2 (73)
SHEET 87 OF 88 SHEETS

BORING LOG

SHEET #1

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: B-4
SHEET 1 OF 1
DATE STARTED: 6/20/02
DATE COMPLETED: 6/20/02

PROJECT NAME: RYEGATE - St. JOHNSBURY
SITE NAME: OVERHEAD SIGNS
STATION: MM 128.690 SOUTHBOUND
GROUND EL.: NA

PROJECT NUMBER: IMR 091-2 (8)
SITE NO.: I-91
OFFSET: LEFT SIDE
G.W. DEPTH: Dry Hole (06/20/02)

BORING CREW
CREW CHIEF: YOUNG
DRILLER: YOUNG
LOGGER: SOMERS

BORING RIG: TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-2-4, SiGrSa, brn, Dry, Rec. = 1.6' Grass & Roots	10	7.6	27.7	50.7	21.6 were within sample.		
		A-2-4, Sa, brn, Dry, Rec. = 1.0'	10	10.9	12.6	69.1	18.3		
5		A-1-b, Sa, brn, Moist, Rec. = 1.2'	17	8.4	16.2	70.6	13.2		
		A-1-b, Sa, brn, Moist, Rec. = 1.0'	11	9.5	18	67.1	14.9		
		A-2-4, Sa, brn, Moist, Rec. = 1.1'	11	10.5	17.1	70	12.9		
10		A-2-4, Sa, brn, Moist, Rec. = 1.25'	23	12.1	16.1	64.7	19.2		
15		A-2-4, Sa, brn, Moist, Rec. = 0.9'	11	16.9	0.8	84.3	14.9		
20		A-2-4, Sa, brn, Moist, Rec. = 1.1'	13	21.4	0.3	88.7	11		
25		A-4, SaSi, brn, Moist, Rec. = 1.1'	19	22.2	0.2	35.9	63.9		
30		A-2-4, SiSa, brn, Moist, Rec. = 0.75'	R	23.4	0.2	66.2	33.6		
		Hole stopped @ 30.75'							
35									
40									
45									

STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION

HOLE NO.: B-5
SHEET 1 OF 1
DATE STARTED: 6/20/02
DATE COMPLETED: 6/24/02

PROJECT NAME: RYEGATE - St. JOHNSBURY
SITE NAME: OVERHEAD SIGNS
STATION: MM 128.690 SOUTHBOUND
GROUND EL.: NA

PROJECT NUMBER: IMR 091-2 (8)
SITE NO.: I-91
OFFSET: RIGHT SIDE
G.W. DEPTH: Hole caved in @ 23.0'

BORING CREW
CREW CHIEF: YOUNG
DRILLER: YOUNG
LOGGER: SOMERS

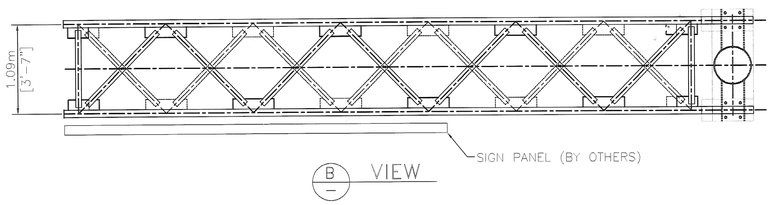
BORING RIG: TRACK RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL

DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-2-4, GrSa, brn, Moist, Rec. = 1.25' Grass & Roots	5	8.7	33.1	47.3	19.6 were within sample.		
		A-1-b, SaGr, brn, Moist, Rec. = 0.8'	15	9.6	46.4	38	15.6		
5		NXDC, 3.33'-5.0', Boulders							
		NXDC, 5.0'-8.65', Boulders							
10		NXDC, 9.5'-10.0', Advanced & Cleaned out casing.							
		A-2-4, Sa, brn, Moist, Rec. = 1.0'	24	13.6	1.5	82.2	16.3		
15		A-3, Sa, brn, Moist, Rec. = 1.25'	11	19.5		90.7	9.3		
20		A-3, Sa, brn, Moist, Rec. = 1.20'	14	21.7		89.8	10.2		
25		A-2-4, Sa, brn-gry, Moist Rec. = 1.5'	74	13.4	16	65.5	19.5		
30		Not enough recovery for a sample, Appears to be SiGrSa.	R						
		Hole stopped @ 31.33'							
35									
40									
45									

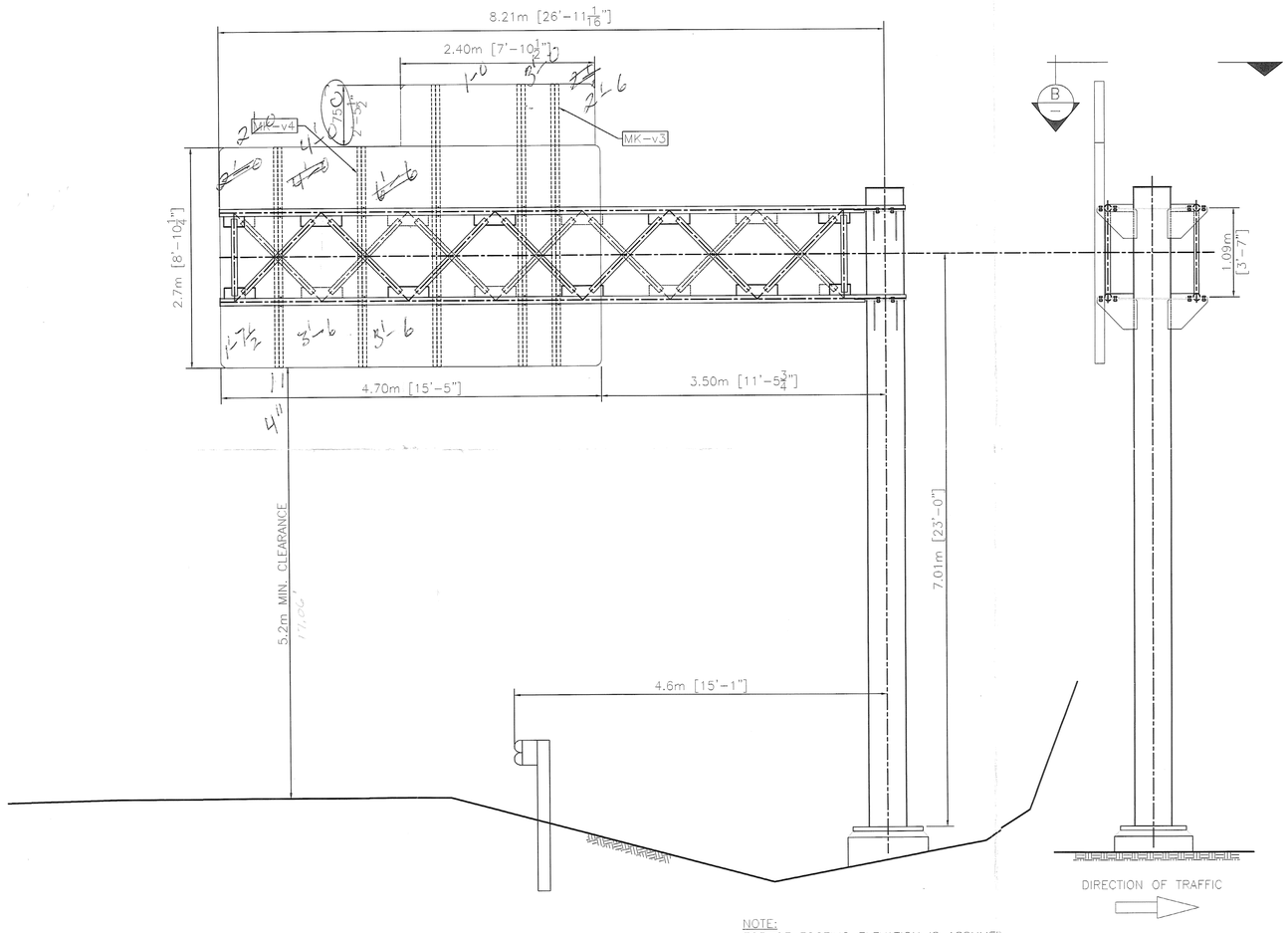
BORING LOG

SHEET #2

SURVEYED BY _____ DATE _____
DRAWN BY J.TOUCHETTE DATE 07/02
SQUAD LEADER C.C. BENDA
DESIGN FILE NO. /M&R/87a023/ma023bor.dgn
IPARM FILE _____ DATE PLOTTED 12/13/2006
PROJ. NAME RYEGATE - St. JOHNSBURY
PROJ. NO. IM 091-2 (73)
SHEET 88 OF 88 SHEETS



B VIEW



ELEVATION
NB I-91 STA.127.628

NOTE:
TOP OF FOOTING ELEVATION IS ASSUMED. CONTRACTOR TO VERIFY ELEVATION BEFORE FABRICATION.

SIDE ELEVATION

NOTE:
1. STRUCTURE DESIGNED IN ACCORDANCE WITH LATEST EDITION AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS.

2. ALL HOLES FOR HIGH STRENGTH FASTENERS SHALL BE DRILLED OR SUB-PUNCHED FULL SIZE. SLOTTED HOLES AND/OR VENT OR ACCESS HOLES MAY BE CUT WITH MECHANICALLY GUIDED PLASMA OR MECHANICALLY GUIDED FLAME TORCH.

3. GRIND SHARP CORNERS OF ALL PLATES TO A $\frac{1}{16}$" MIN. RADIUS PRIOR TO GALVANIZING.

4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.1.

5. ALL STEEL PLATES FOR STRUCTURAL COMPONENTS SHALL BE ASTM A709 GR. 50.

6. STEEL PLATES AND SHAPES FOR NON-STRUCTURAL COMPONENTS SHALL BE ASTM A709 GR. 36.

7. STEEL PIPES FOR STRUCTURAL MEMBERS SHALL HAVE MINIMUM YIELD OF 48 ksi AND SHALL CONFORM TO ONE OF THE FOLLOWING GRADES: ASTM A500 GR. B, ~~A53 GR. B~~ OR API 5LX42.

8. UNLESS OTHERWISE NOTED, ALL BOLTS FOR STRUCTURAL CONNECTIONS SHALL BE M164 TYPE 1 (A325).

9. GALVANIZED U-BOLTS FOR CONNECTION OF SIGN HANGER BEAMS TO TRUSS SHALL BE ASTM F-1554 GR. 36.

10. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111 (ASTM A123).

11. ALL HARDWARE, UNLESS OTHERWISE NOTED, SHALL BE HOT-DIPPED GALVANIZED PER AASHTO M232 (ASTM A153).

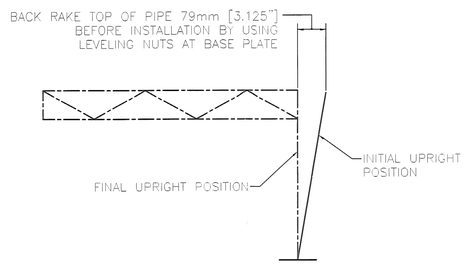
12. ANCHOR HARDWARE SHALL BE STAINLESS STEEL AND MEET REQUIREMENTS OF VAOT STANDARD SPECIFICATION 714.09.

13. CONCRETE AND REBAR SHOWN IN FOOTING DESIGN TO BE FURNISHED BY OTHERS.

14. FOUNDATION DESIGN BASED ON USE OF 3000 psi MINIMUM CONCRETE.

15. SPACE BETWEEN THE TOP OF CONCRETE AND THE BOTTOM OF STEEL BASE PLATE SHALL BE FILLED WITH TYPE IV MORTAR AFTER LEVELING.

16. BOLTS INSTALLED IN STRUCTURAL CONNECTIONS SHALL BE PROVIDED AND TENSIONED PER APPLICABLE PROVISIONS OF VDOT STANDARD SPECIFICATIONS SECTION 506. VAOT



CAMBER DIAGRAM

GWC RLT
A/N
RLT 06/15/07

6163

ALL DIMENSIONS SHOWN ARE IN MILLIMETER (mm). UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN [ ] FOR REFERENCE ONLY.

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

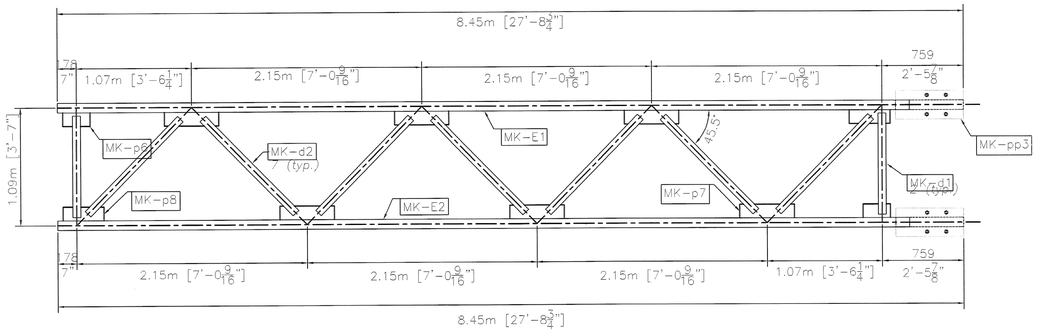
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

CANTILEVER SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.127.628 NB
PROJECT No. AC IM 091-2(73)

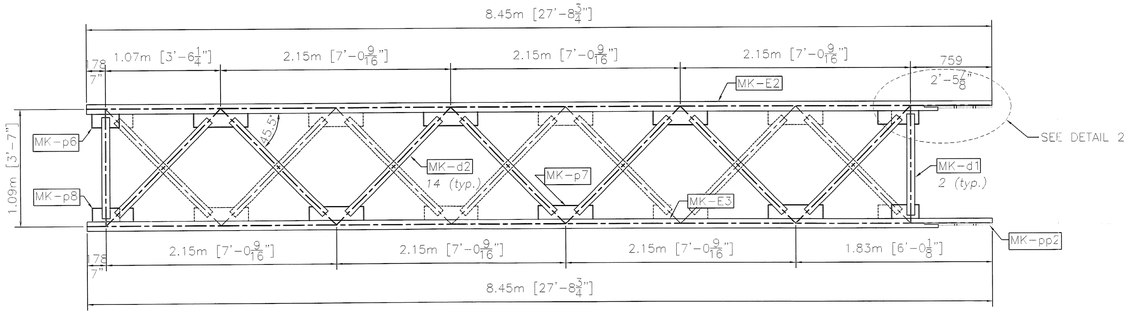
GENERAL CONTRACTOR

SUB CONTRACTOR
F.R. LAFAYETTE

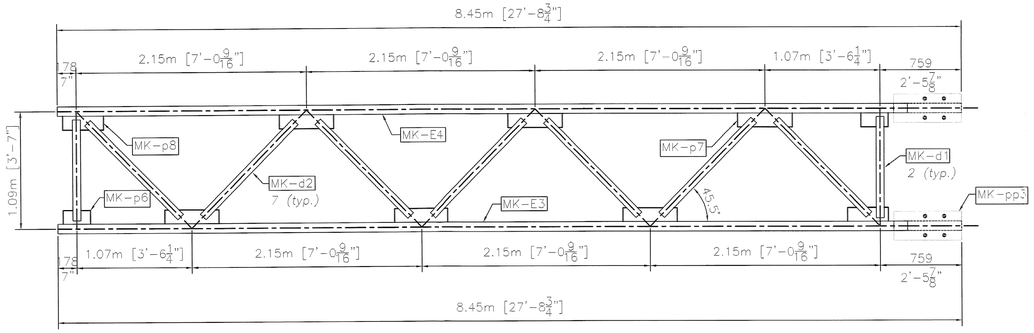
DESIGN MHM
CHECKED P. Radice
DATE 3/23/07
SCALE N.T.S.
HSC REFERENCE NO. 1587c
SIZE D REVISION 0
SHEET NO. 1 of 6



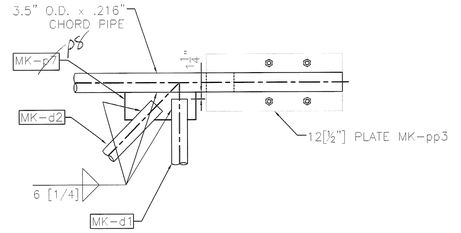
TOP VIEW



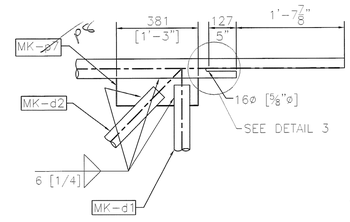
FRONT VIEW



BOTTOM VIEW



DETAIL 1



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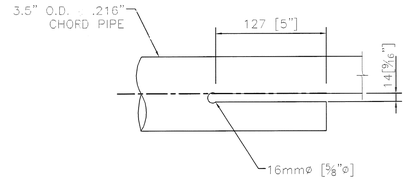


DETAIL 3

GAC RLT
A/N
RLT 06/15/07

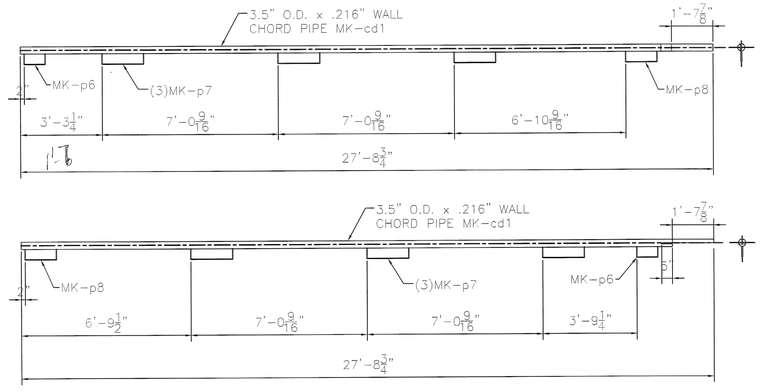
REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

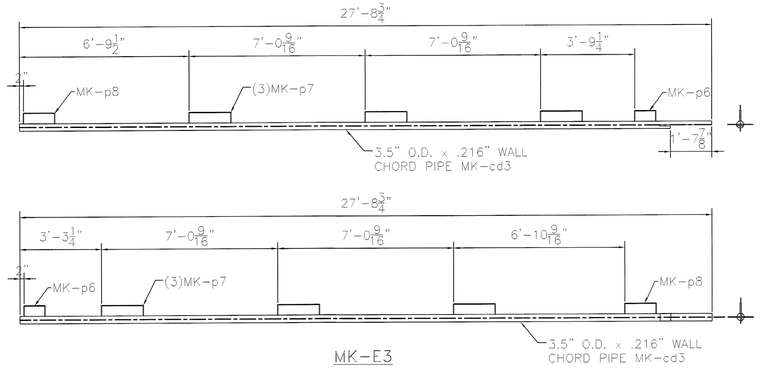
CANTILEVER SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.127.628 NB
PROJECT No. AC IM 091-2(73)

GENERAL CONTRACTOR
SUB CONTRACTOR F.R. LAFAYETTE

DRAWN	MHM
CHECKED	P. Radice
DATE	3/23/07
SCALE	N.T.S.
HSC REFERENCE NO.	1587c
SIZE D	REVISION 0
SHEET NO.	2 of 6



MK-E1



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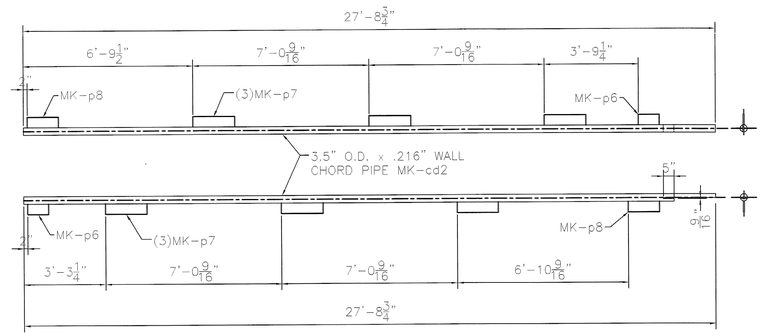

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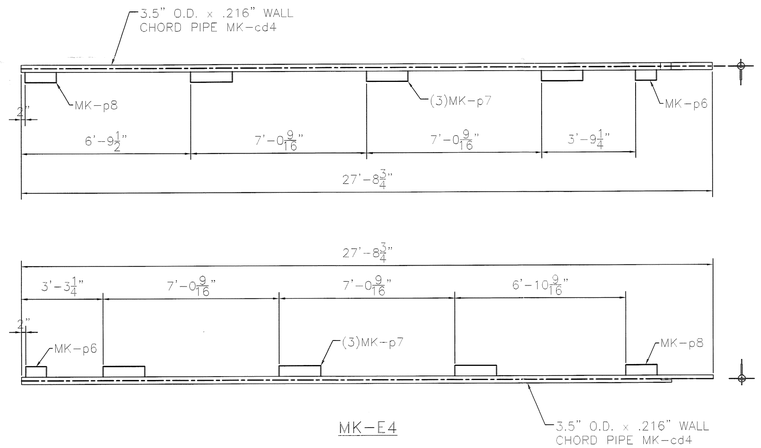


MK-E4

GWC RLT
RLT 06/18/07

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

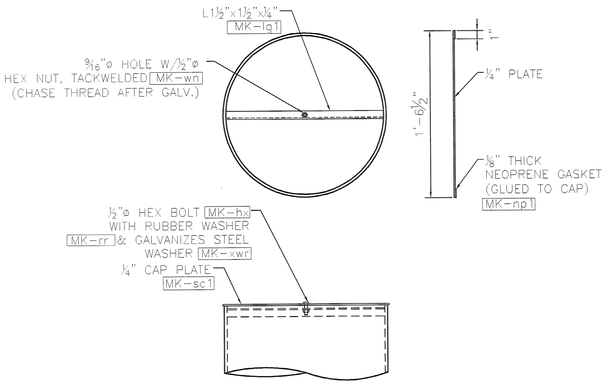
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

CANTILEVER SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.127.628 NB
PROJECT No. AC IM 091-2(73)

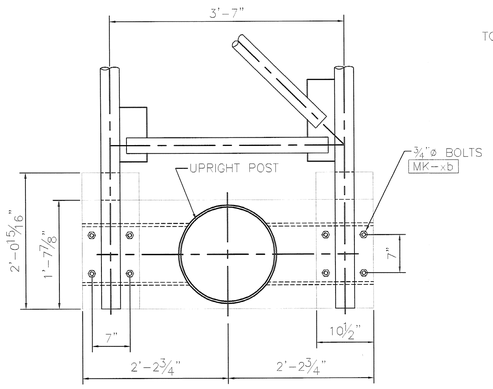
GENERAL CONTRACTOR

SUB CONTRACTOR
F.R. LAFAYETTE

DRAWN	MHM
CHECKED	P. Radice
DATE	3/23/07
SCALE	N.T.S.
HSC REFERENCE NO.	1587c
SIZE	D
REVISION	0
SHEET NO.	3 of 6



POST CAP DETAIL



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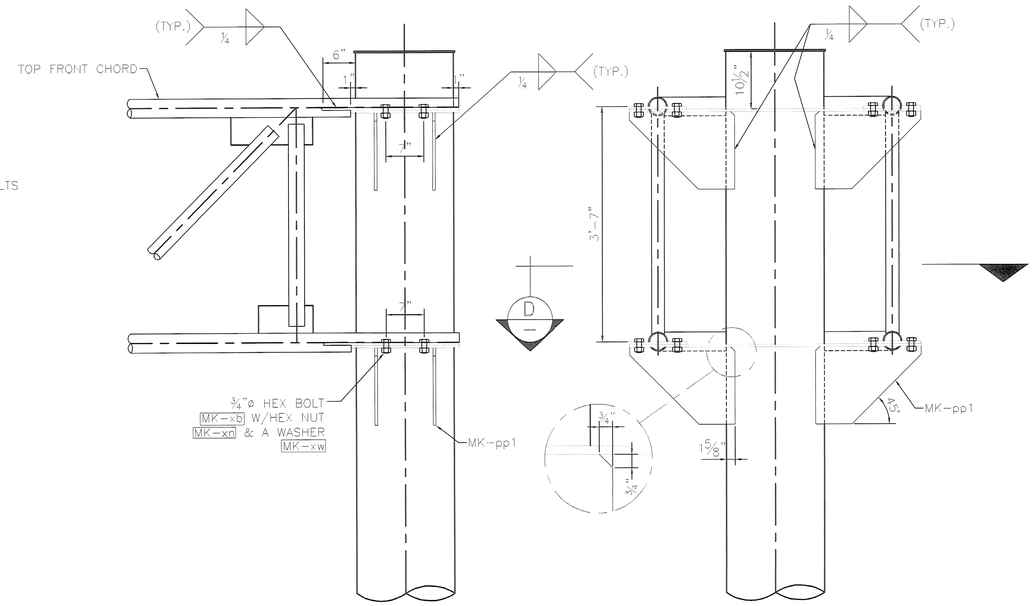

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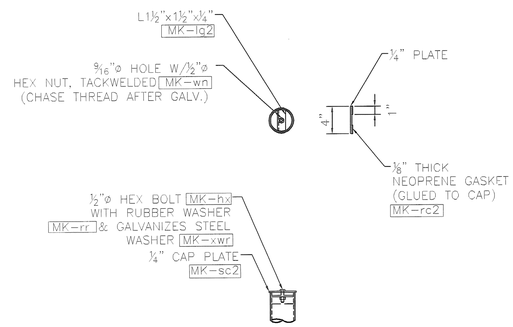

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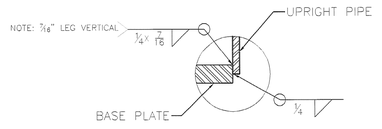
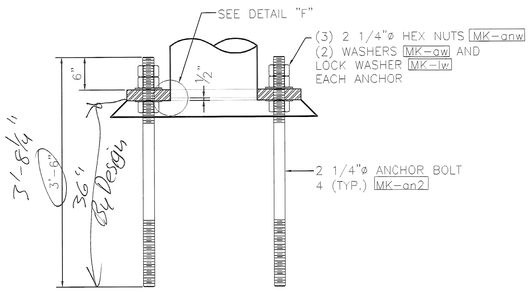
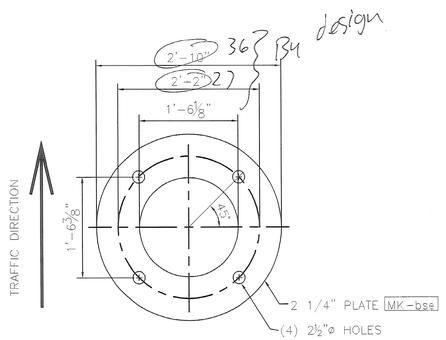


DETAIL F



ANCHOR BOLT DETAIL



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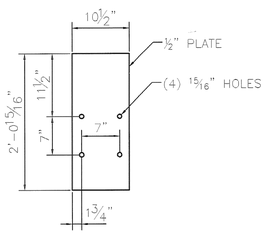

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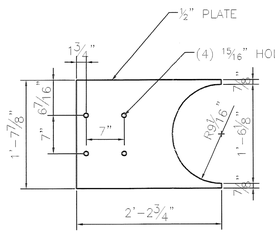

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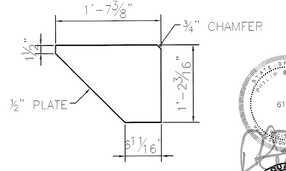


MK-pp1

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

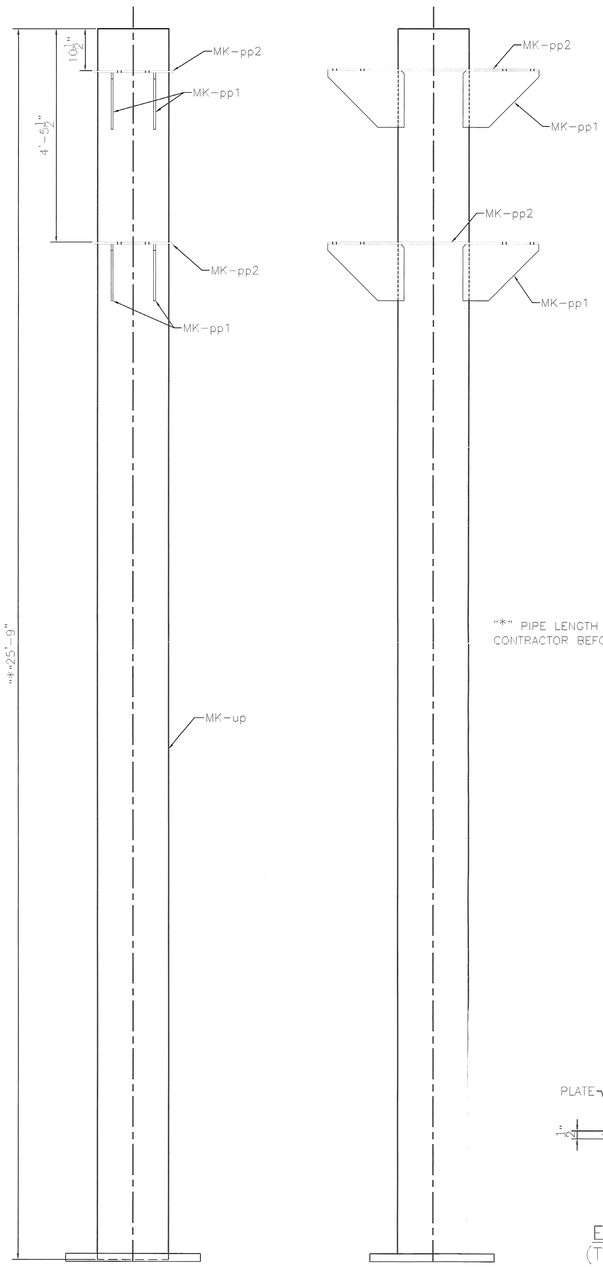
DESIGNED GLC MHM RLT
DRAWN MHM
CHECKED A/N
QUALITY CONTROL RLT MHM 06/18/07

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

CANTILEVER SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.127.628 NB
PROJECT No. AC IM 091-2(73)

GENERAL CONTRACTOR
SUB CONTRACTOR F.R. LAFAYETTE

DRAWN	MHM
CHECKED	P. Radice
DATE	3/23/07
SCALE	N.T.S.
HSC REFERENCE NO.	1587c
SIZE D	REVISION 0
SHEET NO.	4 of 6



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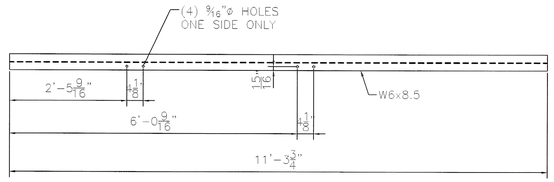

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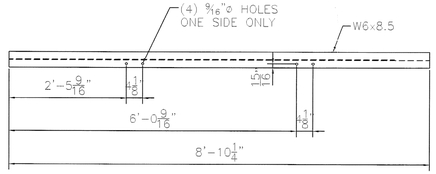
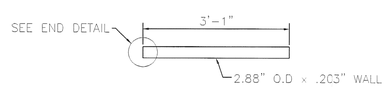


MK-v4

MK-ub



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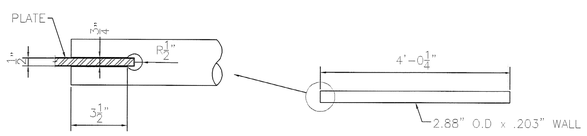


MK-d2

END PIPE DETAIL
(TYP. ALL PIPE ENDS)

erection mark	piece qty	item description	size/shape	length/qty per unit	material notes
E1		**CHORD PIPE ASSEMBLY**			
cd1	1	pipe	3.5" O.D x 0.216" wall	27'-8.75"	A500 gr B ~~A53 gr B~~ API 5LX42
p6	2	plate	PL 0.375" x 4"	10"	A709 gr 50
p7	6	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
p8	2	plate	PL 0.375" x 4"	1'-3"	A709 gr 50
pp3	1	plate	PL 0.50" x 10.5"	2'-0.937"	A709 gr 50
d1	2	pipe	2.88" O.D x 0.203" wall	3'-1"	A500 gr B A53 gr B API 5LX42
d2	7	pipe	2.88" O.D x 0.203" wall	4'-0.25"	A500 gr B A53 gr B API 5LX42
lg2	1	angle	L1.5"x1.5"x.25"	3.25"	A36
nn	1	hex nut	50" dia.		A563
E2		**CHORD PIPE ASSEMBLY**			
cd2	1	pipe	3.5" O.D x 0.216" wall	27'-8.75"	A500 gr B ~~A53 gr B~~ API 5LX42
p6	2	plate	PL 0.375" x 4"	10"	A709 gr 50
p7	6	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
p8	2	plate	PL 0.375" x 4"	1'-3"	A709 gr 50
pp3	1	plate	PL 0.50" x 10.5"	2'-0.937"	A709 gr 50
d1	2	pipe	2.88" O.D x 0.203" wall	3'-1"	A500 gr B A53 gr B API 5LX42
d2	7	pipe	2.88" O.D x 0.203" wall	4'-0.25"	A500 gr B A53 gr B API 5LX42
lg2	1	angle	L1.5"x1.5"x.25"	3.25"	A36
nn	1	hex nut	50" dia.		A563
E3		**CHORD PIPE ASSEMBLY**			
cd3	1	pipe	3.5" O.D x 0.216" wall	27'-8.75"	A500 gr B ~~A53 gr B~~ API 5LX42
p6	2	plate	PL 0.375" x 4"	10"	A709 gr 50
p7	6	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
p8	2	plate	PL 0.375" x 4"	1'-3"	A709 gr 50
pp3	1	plate	PL 0.50" x 10.5"	2'-0.937"	A709 gr 50
d1	2	pipe	2.88" O.D x 0.203" wall	3'-1"	A500 gr B A53 gr B API 5LX42
d2	7	pipe	2.88" O.D x 0.203" wall	4'-0.25"	A500 gr B A53 gr B API 5LX42
lg2	1	angle	L1.5"x1.5"x.25"	3.25"	A36
nn	1	hex nut	50" dia.		A563
E4		**CHORD PIPE ASSEMBLY**			
cd4	1	pipe	3.5" O.D x 0.216" wall	27'-8.75"	A500 gr B ~~A53 gr B~~ API 5LX42
p6	2	plate	PL 0.375" x 4"	10"	A709 gr 50
p7	6	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
p8	2	plate	PL 0.375" x 4"	1'-3"	A709 gr 50
pp3	1	plate	PL 0.50" x 10.5"	2'-0.937"	A709 gr 50
d1	2	pipe	2.88" O.D x 0.203" wall	3'-1"	A500 gr B A53 gr B API 5LX42
d2	7	pipe	2.88" O.D x 0.203" wall	4'-0.25"	A500 gr B A53 gr B API 5LX42
lg2	1	angle	L1.5"x1.5"x.25"	3.25"	A36
nn	1	hex nut	50" dia.		A563
UP		**VERTICAL PIPE ASSEMBLY** **PIPE ASSEMBLY**			
up	1	pipe	18" O.D x 0.5" wall	25'-9"	A500 gr B ~~A53 gr B~~ API 5LX42
pp1	4	plate	PL 0.5" x 1'-2.187"	1'-7.375"	A572 gr 50
pp2	4	plate	PL 0.5" x 1'-7.875"	2'-2.75"	A572 gr 50
lg1	1	angle	L 1.5"x1.5"x.25"	1'-5.25"	A36
nn	1	hex nut	.50" dia.		A563
bse	1	base plate	2.25" x 2'-10" O.D.	36" per Design	A572 gr 50
		LOOSE ITEMS			
v3	3	sign hanger	W8x8.5	11'-3.75"	A36
v4	2	sign hanger	W8x8.5	8'-10.25"	A36
ub	10	u-bolt	0.50" dia.	5.375"	F1554 Gr. 36
k1	20	lock nut	0.50" dia.		A563 DH
swr	16	washer	0.50" dia.		F436
xb	16	hex bolt	0.75" dia.	2.25"	A325
xn	16	hex nut	0.75" dia.		A563 DH
xw	16	washer	0.75" dia.		F436
sc1	1	cap plate	0.25" X 1'-6.5" O.D.		A36
sc2	4	cap plate	0.25" X 4" O.D.		A36
np1	1	gasket	.125"x1'-6.5" O.D.		50 duro. Neoprene
rc2	4	gasket	.125"x4" O.D.		50 duro. Neoprene
hv	5	hex bolt	0.50" dia.	1.5"	A307
xwr	5	washer	.50" dia.		F844
rr	5	rubber washer	.50" dia.		50 duro. Neoprene
an2	4	anchor bolt	2.25" dia.	3'-6"	S/S A276 T304
anw	12	hex nut	2.25" dia.		S/S A194B T304
lw	4	lock washer	2.25" dia.		S/S TY 304
aw	6	flat washer	2.25" dia.		S/S TY 304

3'-6 1/4"

GWC RLT A/N 06/18/07 RLT

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.

GLASTONBURY, CT

CANTILEVER SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.127.628 NB
PROJECT No. AC IM 091-2(73)

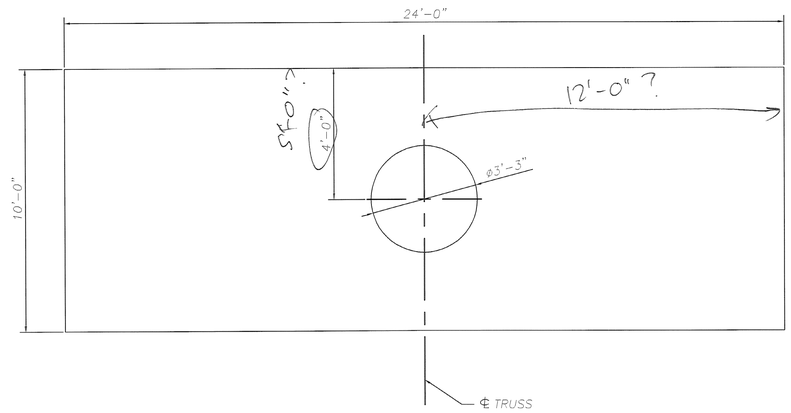
GENERAL CONTRACTOR

SUB CONTRACTOR: F.R. LAFAYETTE

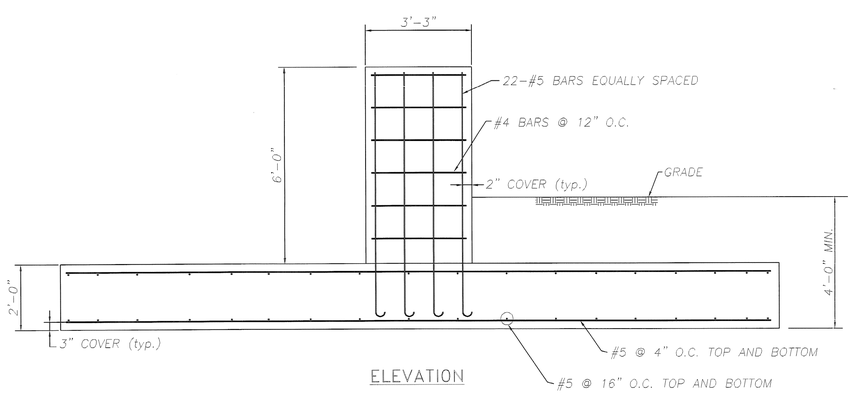
DRAWN	MHM
CHECKED	P. Radice
DATE	3/23/07
SCALE	N.T.S.
HSC REFERENCE NO.	1587c
SIZE	D
REVISION	0
SHEET NO.	5 of 6

REBAR LIST

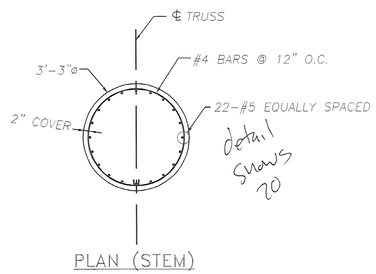
REBAR	PCS. REQRD.	LENGTH
#4	7	10'-2"
#5	38	9'-6"
#5	60	23'-6"
#5 (HOOK ONE END)	22	8'-6"



PLAN



ELEVATION



PLAN (STEM)

GWC ELT
ELT ØA/N 06/15/07

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

CANTILEVER SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.127.628 NB
PROJECT No. AC IM 091-2(73)

GENERAL CONTRACTOR
SUB CONTRACTOR F.R. LAFEYETTE

DRAWN	MHM
CHECKED	P. Radice
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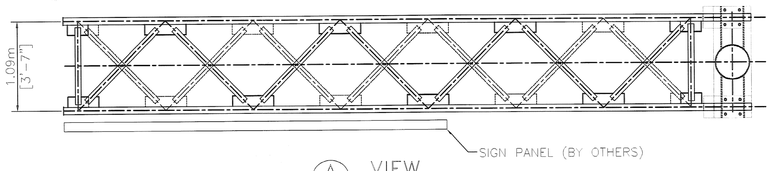
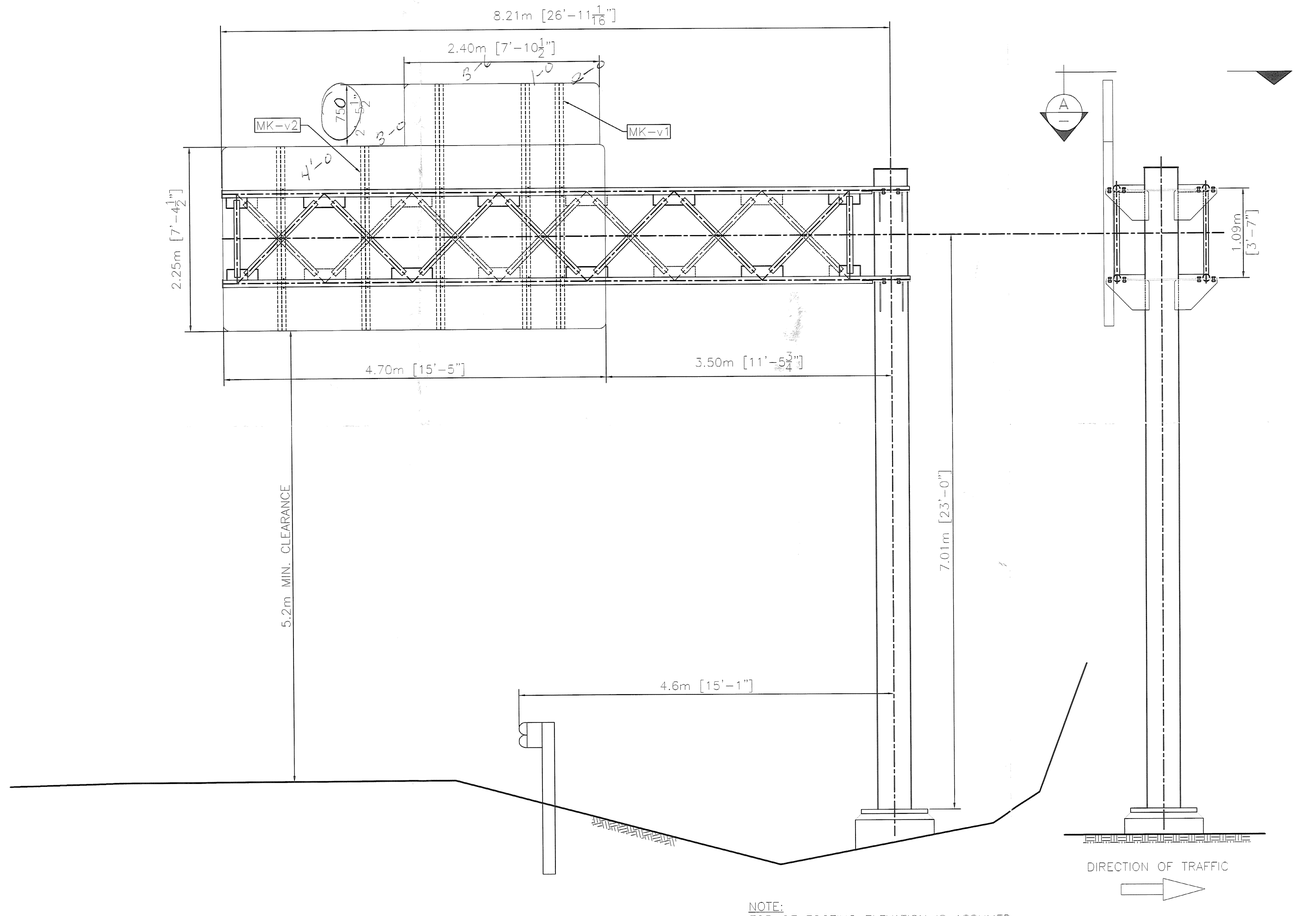
SCALE	N.T.S.
HSC REFERENCE NO.	1587c
SIZE D	REVISION 0
SHEET NO.	6 of 6



A VIEW



ELEVATION
NB I-91 STA.127.980

SIDE ELEVATION

NOTE:
TOP OF FOOTING ELEVATION IS ASSUMED. CONTRACTOR TO VERIFY ELEVATION BEFORE FABRICATION.

NOTE:

1. STRUCTURE DESIGNED IN ACCORDANCE WITH LATEST EDITION AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS.

2. ALL HOLES FOR HIGH STRENGTH FASTENERS SHALL BE DRILLED OR SUB-PUNCHED FULL SIZE. SLOTTED HOLES AND/OR VENT OR ACCESS HOLES MAY BE CUT WITH MECHANICALLY GUIDED PLASMA OR MECHANICALLY GUIDED FLAME TORCH.

3. GRIND SHARP CORNERS OF ALL PLATES TO A $\frac{1}{16}$" MIN. RADIUS PRIOR TO GALVANIZING.

4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.1.

5. ALL STEEL PLATES FOR STRUCTURAL COMPONENTS SHALL BE ASTM A709 GR. 50.

6. STEEL PLATES AND SHAPES FOR NON-STRUCTURAL COMPONENTS SHALL BE ASTM A709 GR. 36.

7. STEEL PIPES FOR STRUCTURAL MEMBERS SHALL HAVE MINIMUM YIELD OF 48 ksi AND SHALL CONFORM TO ONE OF THE FOLLOWING GRADES: ASTM A500 GR. B, ~~A53 GR. B~~ OR API 5LX42.

(42 ksi)
A53 GR B
Fu = 36 ksi
DESIGN = 42

8. UNLESS OTHERWISE NOTED, ALL BOLTS FOR STRUCTURAL CONNECTIONS SHALL BE M164 TYPE 1 (A325).

9. GALVANIZED U-BOLTS FOR CONNECTION OF SIGN HANGER BEAMS TO TRUSS SHALL BE ASTM F-1554 GR. 36.

10. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111 (ASTM A123).

11. ALL HARDWARE, UNLESS OTHERWISE NOTED, SHALL BE HOT-DIPPED GALVANIZED PER AASHTO M232 (ASTM A153).

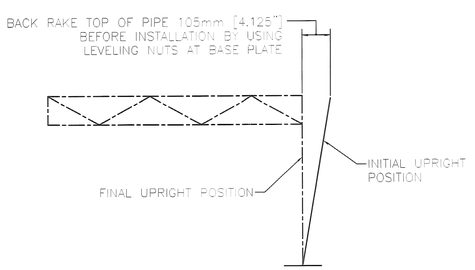
12. ANCHOR HARDWARE SHALL BE STAINLESS STEEL AND MEET REQUIREMENTS OF VAOT STANDARD SPECIFICATION 714.09.

13. CONCRETE AND REBAR SHOWN IN FOOTING DESIGN TO BE FURNISHED BY OTHERS.

14. FOUNDATION DESIGN BASED ON USE OF 3000 psi MINIMUM CONCRETE.

15. SPACE BETWEEN THE TOP OF CONCRETE AND THE BOTTOM OF STEEL BASE PLATE SHALL BE FILLED WITH TYPE IV MORTAR AFTER LEVELING.

16. BOLTS INSTALLED IN STRUCTURAL CONNECTIONS SHALL BE PROVIDED AND TENSIONED PER APPLICABLE PROVISIONS OF VDOT STANDARD SPECIFICATIONS SECTION 506.
VAOT



CAMBER DIAGRAM

REVIEWED
ON BEHALF OF THE STATE
MAY 29 2007
VERMONT AGENCY OF TRANSPORTATION
BY RLT DATE
AS NOTED
06/14/07

6163

ALL DIMENSIONS SHOWN ARE IN MILLIMETER (mm). UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN [ ] FOR REFERENCE ONLY.

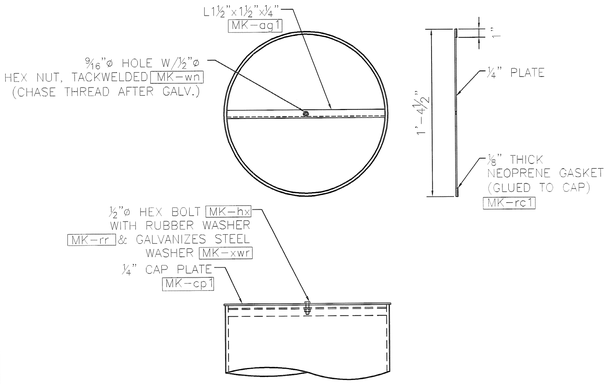
REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

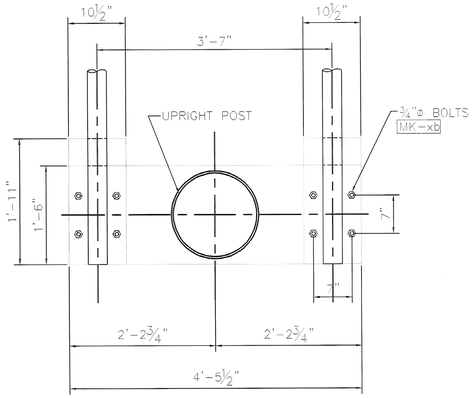
CANTILEVER SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.127.980 NB
PROJECT No. AC IM 091-2(73)

GENERAL CONTRACTOR
SUB CONTRACTOR F.R. LAFAYETTE

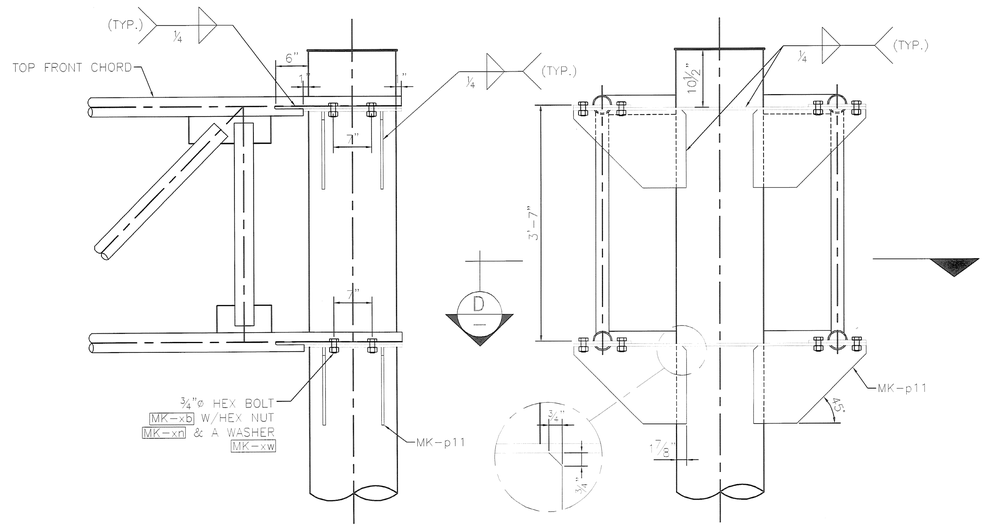
DRAWN	MHM
CHECKED	P. Radice
DATE	3/23/07
SCALE	N.T.S.
HSC REFERENCE NO.	1587b
SIZE D	REVISION 0
SHEET NO.	1 of 6



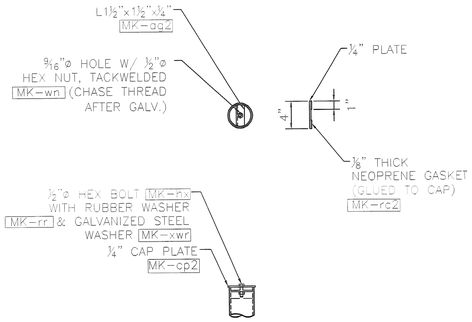
POST CAP DETAIL



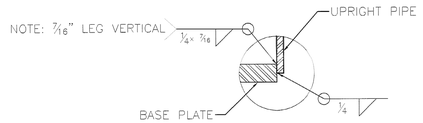
SECTION



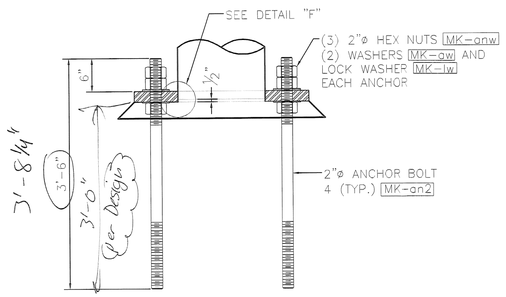
CHORD – POST CONNECTION DETAIL



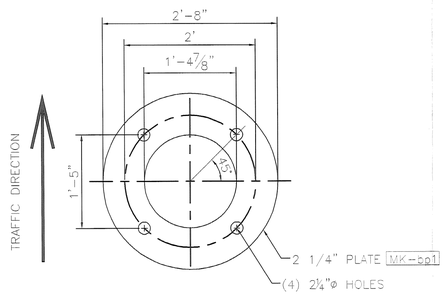
CHORD CAP DETAIL



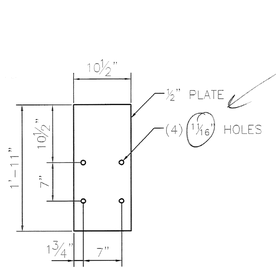
DETAIL F



ANCHOR BOLT DETAIL



MK-bp1



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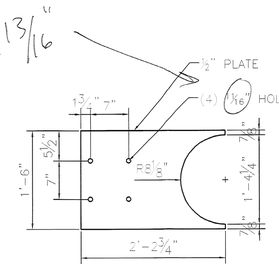

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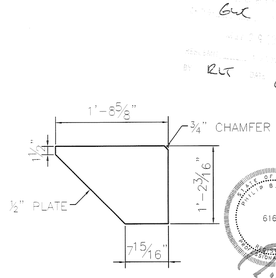


MK-p11

GLC RLT
RLT AS NOTED
06/15/07

6163

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

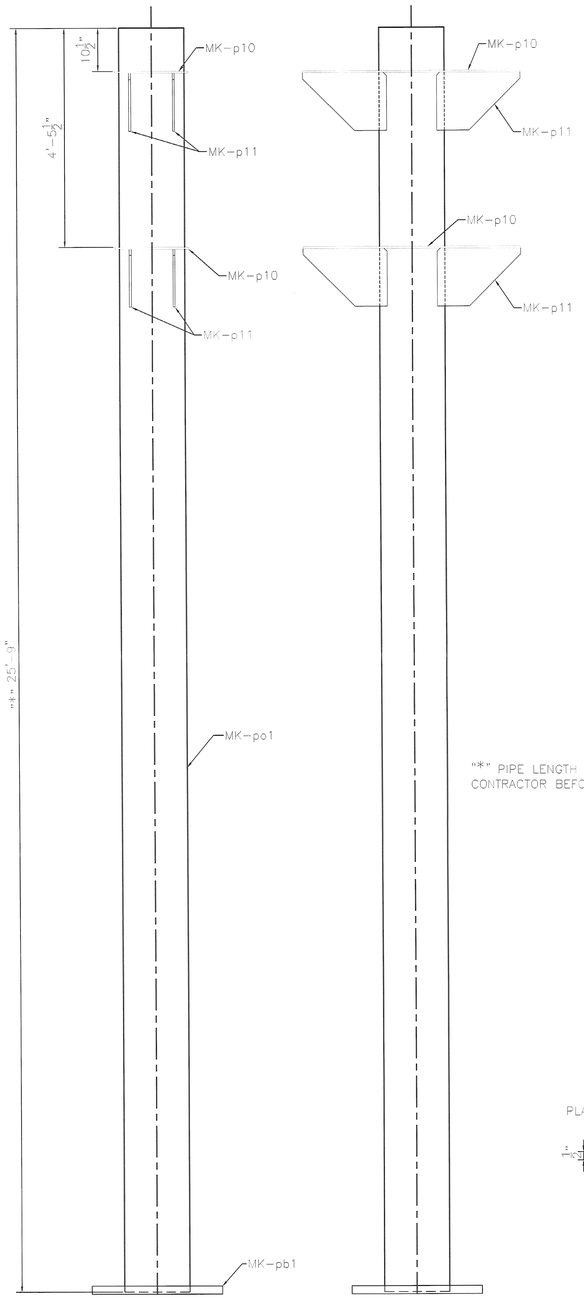
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

CANTILEVER SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.127.980 NB
PROJECT No. AC IM 091-2(73)

GENERAL CONTRACTOR

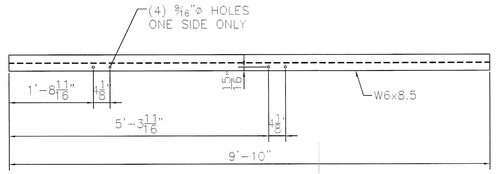
SUB CONTRACTOR
F.R. LAFAYETTE

DESIGN	MHM
CHECKED	P. Radice
DATE	3/23/07
SCALE	N.T.S.
HSC REFERENCE NO.	1587b
SIZE D	REVISION 0
SHEET NO.	4 of 6

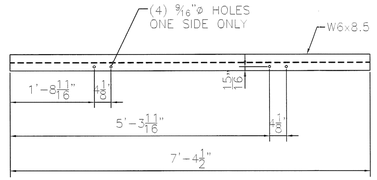


MK-PO

"*" PIPE LENGTH TO BE VERIFIED BY CONTRACTOR BEFORE FABRICATION.



MK-v1



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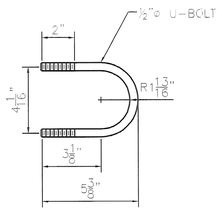
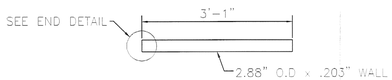
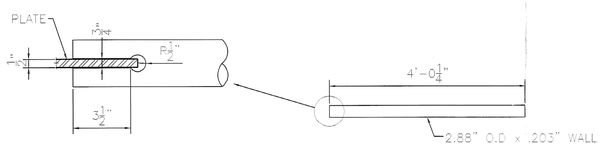


MK-ub



MK-d1



END PIPE DETAIL
(TYP. ALL PIPE ENDS)

MK-d2

erection mark	piece qty	item description	size/shape	length/qty per unit	material notes
		TRUSS 1 ASSEMBLY			
A1		**CHORD PIPE ASSEMBLY**			
pe1	1	pipe	3.5" O.D.x 0.216" wall	27'-7.813"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
p6	2	plate	PL 0.375" x 4"	10"	A709 gr 50
p7	6	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
p8	2	plate	PL 0.375" x 4"	1'-3"	A709 gr 50
p9	1	plate	PL 0.50" x 10.5"	1'-11"	A709 gr 50
d1	2	pipe	2.88" O.D.x 0.203" wall	3'-1"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
d2	7	pipe	2.88" O.D.x 0.203" wall	4'-0.25"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
ag2	1	angle	L1.5"x1.5"x.25"	3.25"	A36
wn	1	hex nut	.50" dia.		A563
A2		**CHORD PIPE ASSEMBLY**			
pe2	1	pipe	3.5" O.D.x 0.216" wall	27'-7.813"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
p6	2	plate	PL 0.375" x 4"	10"	A709 gr 50
p7	6	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
p8	2	plate	PL 0.375" x 4"	1'-3"	A709 gr 50
p9	1	plate	PL 0.50" x 10.5"	1'-11"	A709 gr 50
d1	2	pipe	2.88" O.D.x 0.203" wall	3'-1"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
d2	7	pipe	2.88" O.D.x 0.203" wall	4'-0.25"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
ag2	1	angle	L1.5"x1.5"x.25"	3.25"	A36
wn	1	hex nut	.50" dia.		A563
A3		**CHORD PIPE ASSEMBLY**			
pe3	1	pipe	3.5" O.D.x 0.216" wall	27'-7.813"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
p6	2	plate	PL 0.375" x 4"	10"	A709 gr 50
p7	6	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
p8	2	plate	PL 0.375" x 4"	1'-3"	A709 gr 50
p9	1	plate	PL 0.50" x 10.5"	1'-11"	A709 gr 50
d1	2	pipe	2.88" O.D.x 0.203" wall	3'-1"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
d2	7	pipe	2.88" O.D.x 0.203" wall	4'-0.25"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
ag2	1	angle	L1.5"x1.5"x.25"	3.25"	A36
wn	1	hex nut	.50" dia.		A563
A4		**CHORD PIPE ASSEMBLY**			
pe4	1	pipe	3.5" O.D.x 0.216" wall	27'-7.813"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
p6	2	plate	PL 0.375" x 4"	10"	A709 gr 50
p7	6	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
p8	2	plate	PL 0.375" x 4"	1'-3"	A709 gr 50
p9	1	plate	PL 0.50" x 10.5"	1'-11"	A709 gr 50
d1	2	pipe	2.88" O.D.x 0.203" wall	3'-1"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
d2	7	pipe	2.88" O.D.x 0.203" wall	4'-0.25"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
ag2	1	angle	L1.5"x1.5"x.25"	3.25"	A36
wn	1	hex nut	.50" dia.		A563
		VERTICAL PIPE ASSEMBLY			
PO		**PIPE ASSEMBLY**			
po1	1	pipe	16" O.D.x 0.5" wall	25'-9"	A500 gr B, ~~A53 gr B~~ OR API 5LX42
p10	4	plate	PL 0.5" x 1'-6"	2'-2.75"	A572 gr 50
p11	4	plate	PL 0.5" x 1'-2.187"	1'-8.625"	A572 gr 50
ag1	1	angle	L 1.5"x1.5"x.25"	1'-3.625"	A36
wn	1	hex nut	.50" dia.		A563
bp	1	base plate	2.25" x 2'-8" O.D.		A572 gr 50
		LOOSE ITEMS			
v1	3	sign hanger	W6x8.5	9'-10"	A36
v2	2	sign hanger	W6x8.5	7'-4.25"	A36
ub	10	u-bolt	0.50" dia.	5.375"	F1554 Gr. 36
k1	20	lock nut	0.50" dia.		A563 DH
swr	16	washer	0.50" dia.		F436
xb	16	hex bolt	0.75" dia.	2.25"	A325
xn	16	hex nut	0.75" dia.		A563 DH
xw	16	washer	0.75" dia.		F436
cp1	1	cap plate	0.25" X 1'-4.5" O.D.		A36
cp2	4	cap plate	0.25" X 4" O.D.		A36
rc1	1	gasket	.125"x1'-4.5" O.D.		50 duro. Neoprene
rc2	4	gasket	.125"x4" O.D.		50 duro. Neoprene
hx	5	hex bolt	0.50" dia.	1.5"	A307
xwr	5	washer	.50" dia.		F844
rr	5	rubber washer	.50" dia.	3'-6"	50 duro. Neoprene
an2	4	anchor bolt	2" dia.		S/S A276 T304
anw	12	hex nut	2" dia.		S/S A194B T304
lw	4	lock washer	2" dia.		S/S TY 304
aw	8	flat washer	2" dia.		S/S TY 304

3'-8¼"

GWC RLT MAY ASNOTED RLT 06/13/07

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

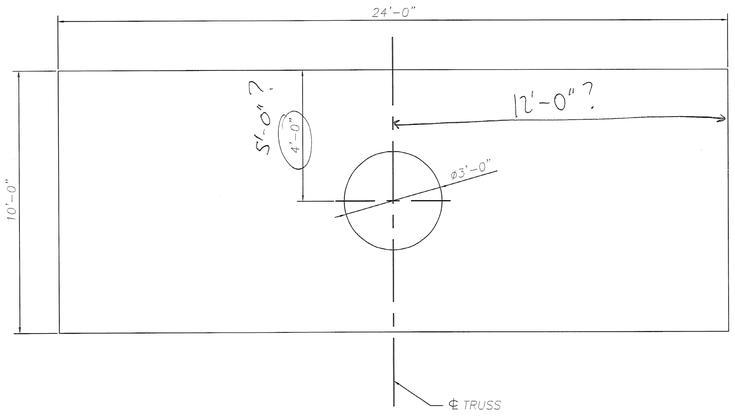
CANTILEVER SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.127.980 NB
PROJECT No. AC IM 091-2(73)

GENERAL CONTRACTOR
SUB CONTRACTOR F.R. LAFAYETTE

DESIGN MHM
CHECKED P. Radice
DATE 3/23/07
SCALE N.T.S.
HSC REFERENCE NO. 1587b
SIZE D REVISION 0
SHEET NO. 5 of 6

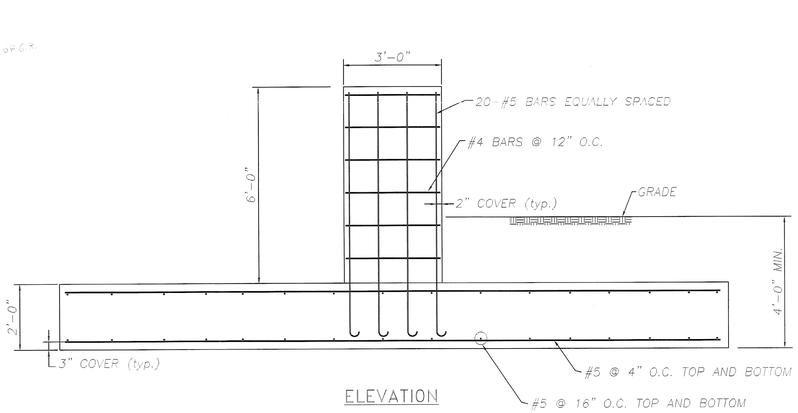
REBAR LIST

REBAR	PCS. REQRD.	LENGTH
#4	7	9'-4"
#5	38	9'-6"
#5	60	23'-6"
#5 (HOOK ONE END)	20	8'-6"

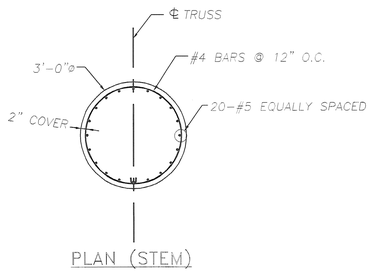


PLAN

15'-1" FROM FACE OF C.F.



ELEVATION



PLAN (STEM)

GVC RLT

As noted

RLT 06/15/07

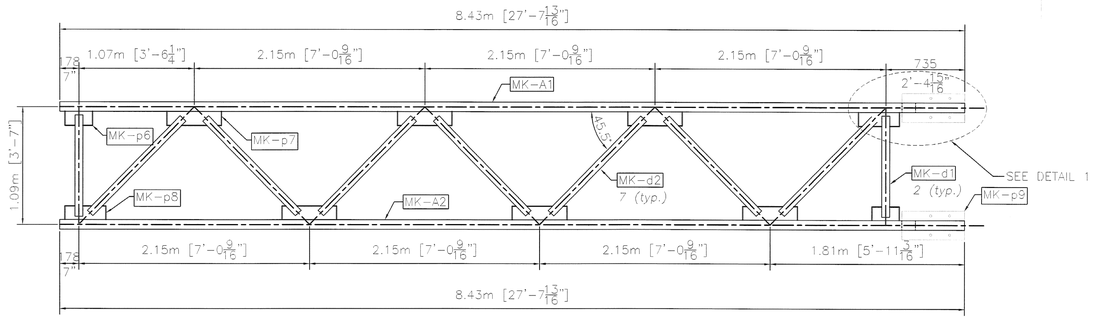
REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

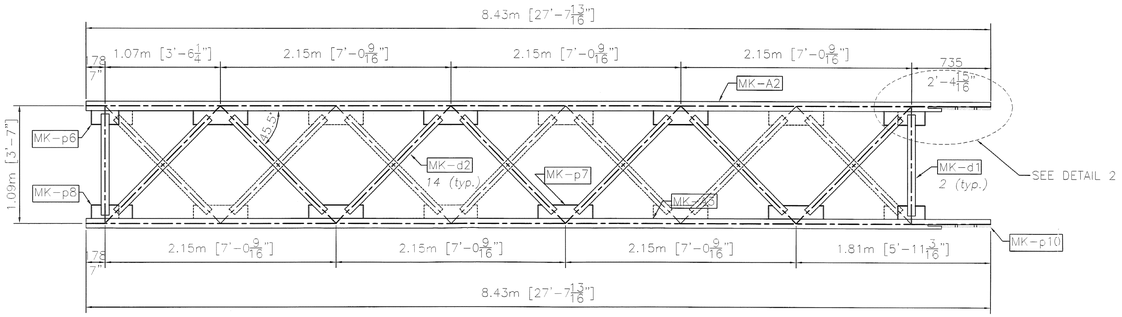
CANTILEVER SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.127.980 NB
PROJECT No. AC IM 091-2(73)

GENERAL CONTRACTOR
SUB CONTRACTOR F.R. LAFEYETTE

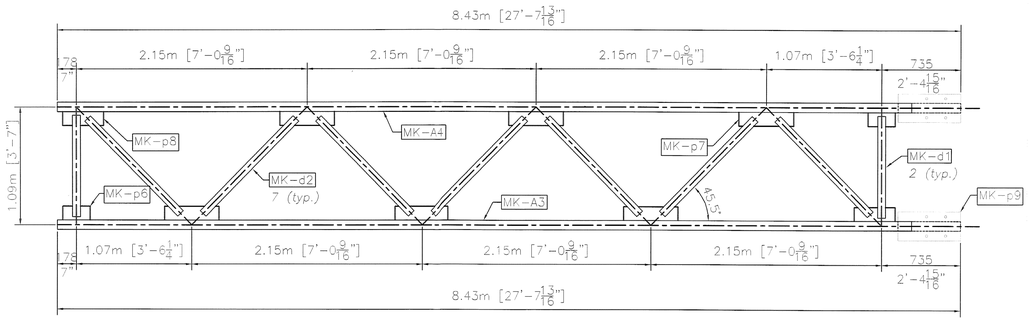
DRAWN	MHM
CHECKED	P Radice
DATE	3/23/07
SCALE	N.I.S.
HSC REFERENCE NO.	1587b
SIZE D	REVISION 0
SHEET NO.	6 of 6



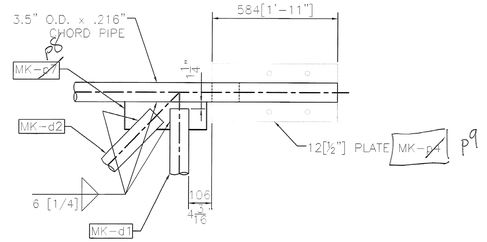
TOP VIEW



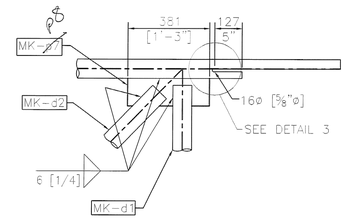
FRONT VIEW



BOTTOM VIEW



DETAIL 1



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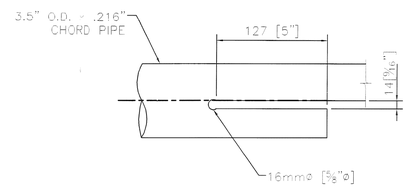


DETAIL 3

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

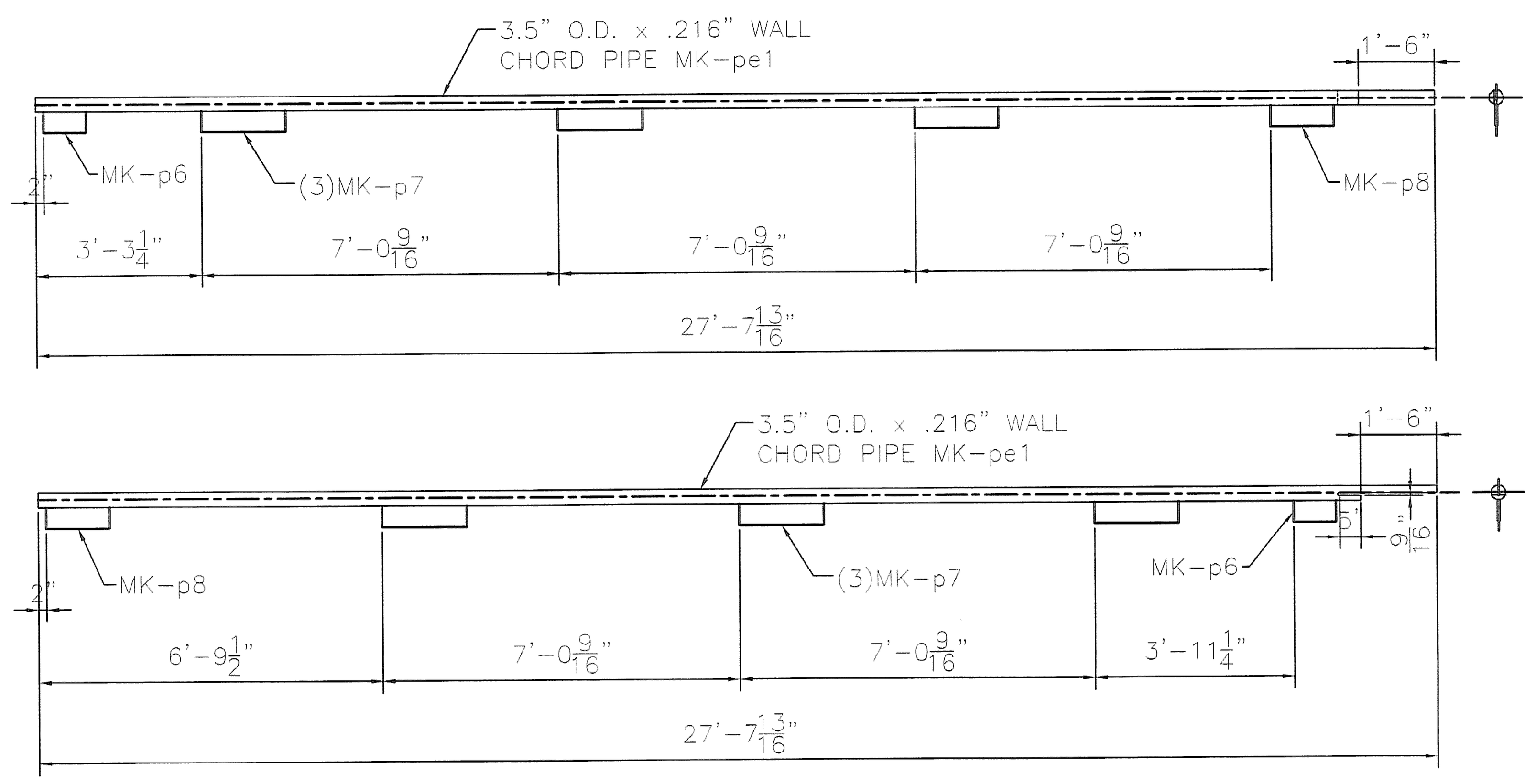
DRAWN BY GWC RLT
CHECKED BY RLT
APPROVED BY RLT
AS NOTED
DATE 06/15/07

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

CANTILEVER SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.127.980 NB
PROJECT No. AC IM 091-2(73)

GENERAL CONTRACTOR
SUB CONTRACTOR F.R. LAFAYETTE

DESIGN MHM
CHECKED P. Radice
DATE 3/23/07
SCALE N.T.S.
HSC REFERENCE NO. 15876
SIZE D REVISION 0
SHEET NO. 2 of 6



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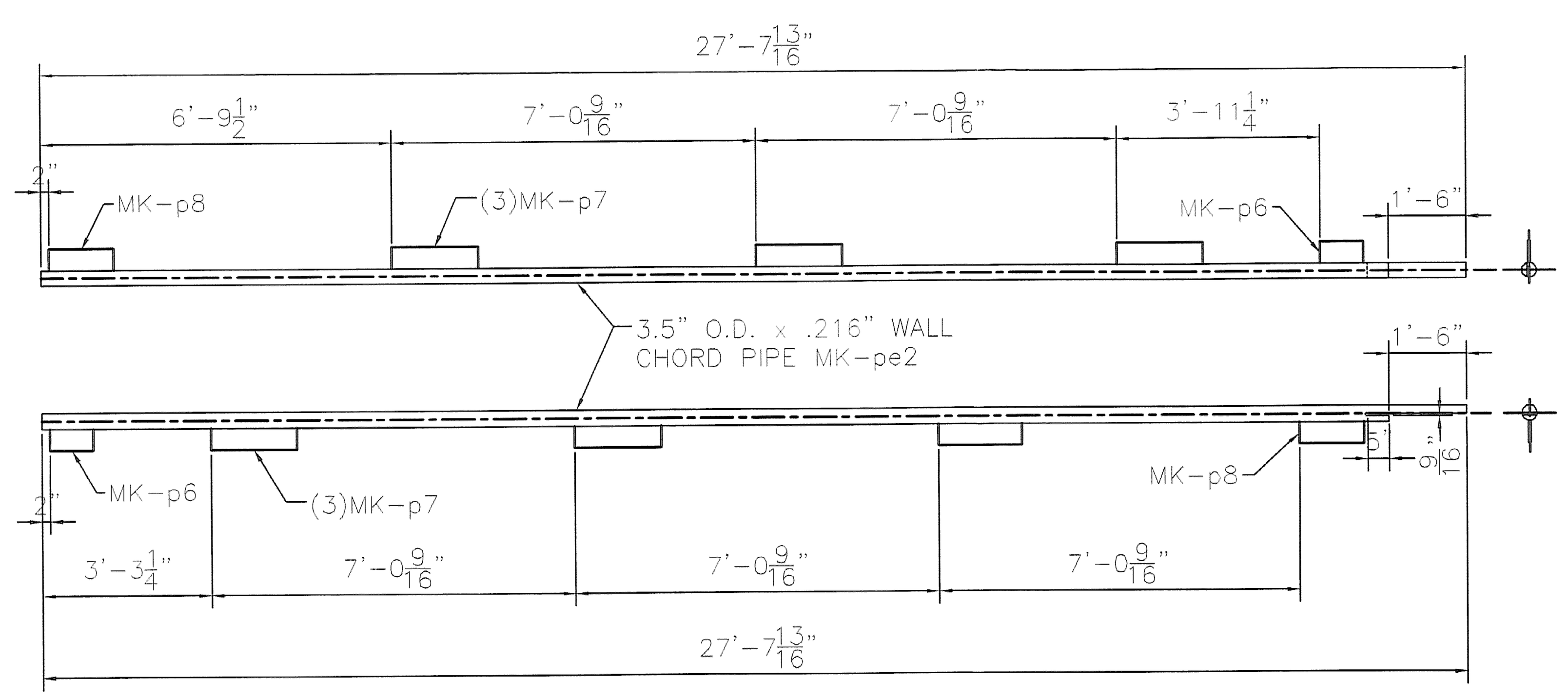

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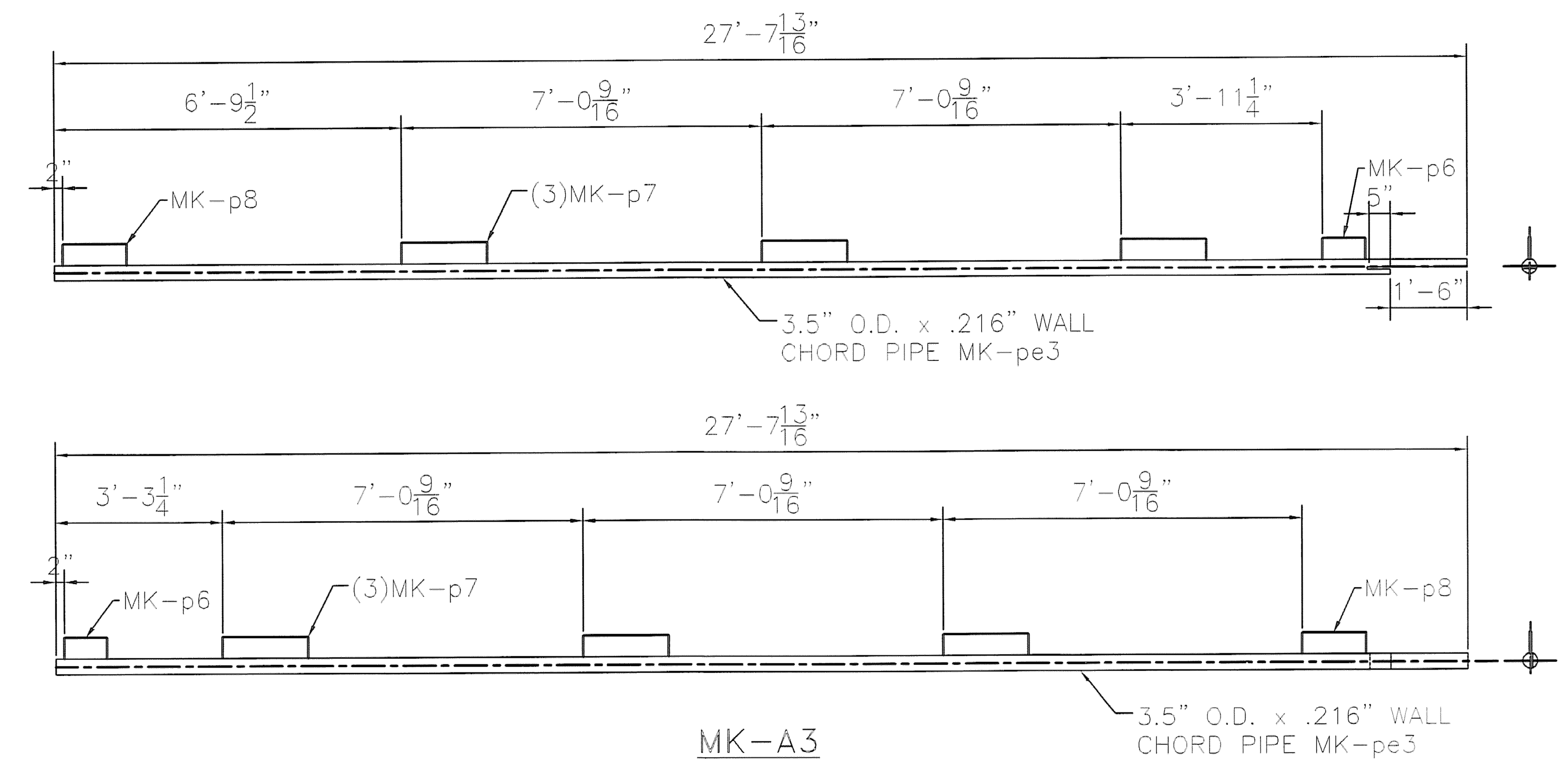

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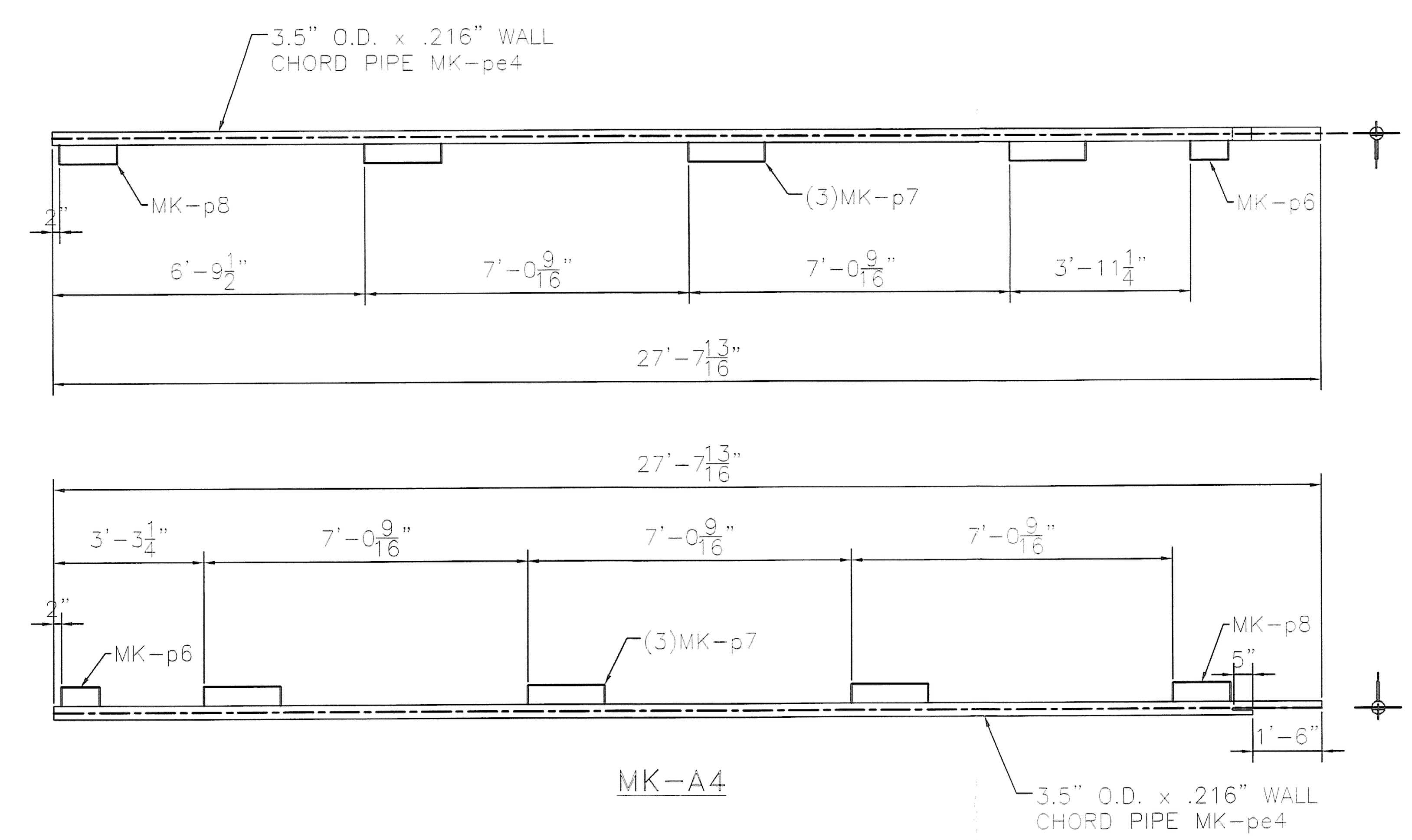


MK-A4

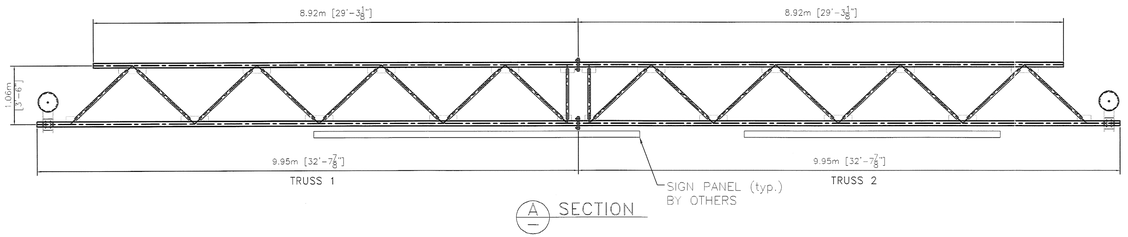
REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

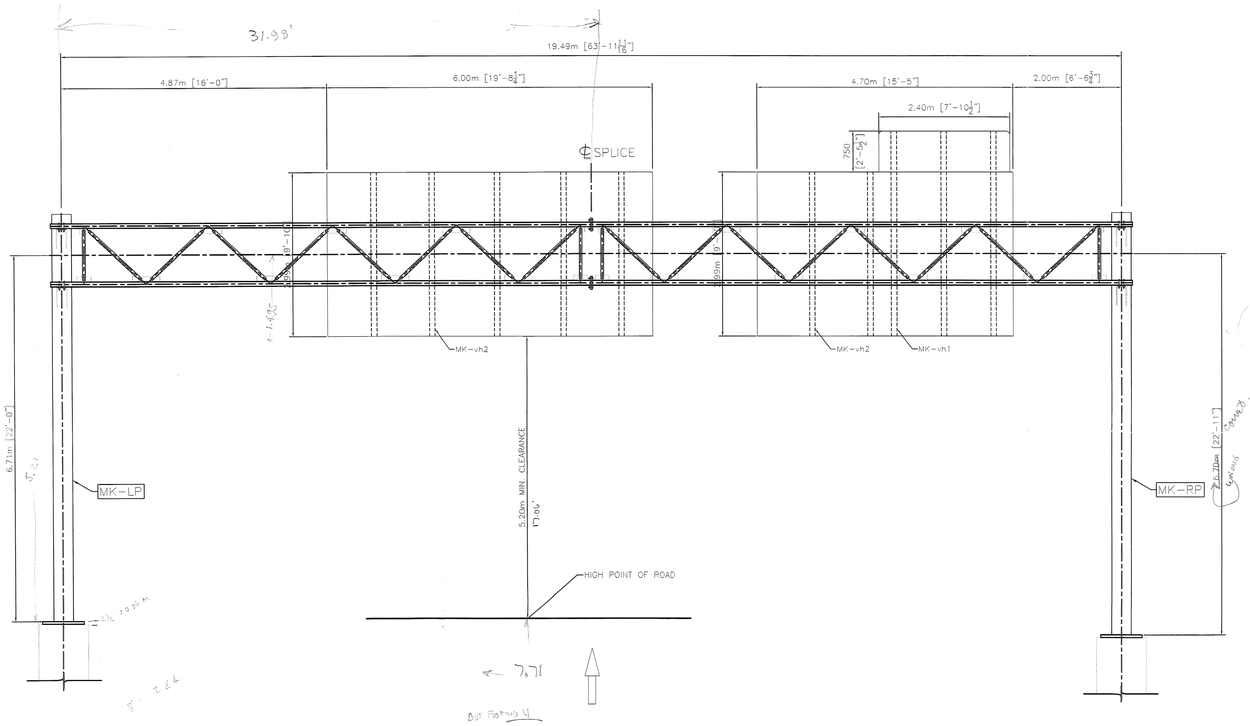
CANTILEVER SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.127.980 NB
PROJECT No. AC IM 091-2(73)

DRAWN	MHM
CHECKED	P. Radice
DATE	3/23/07
SCALE	N.T.S.
HSC REFERENCE NO.	1587b
SIZE	D
REVISION	0
SHEET NO.	3 of 6
GENERAL CONTRACTOR	
SUB CONTRACTOR	F.R. LAFAYETTE

RLT 06/15/07



A SECTION



ELEVATION

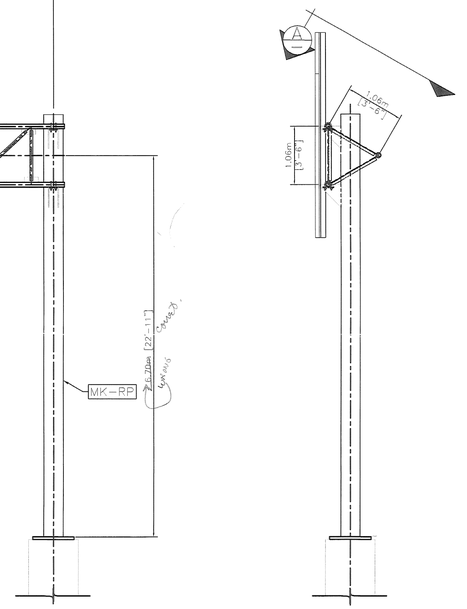
SB I-91 STA.128.70

LOOKING AT FACE OF SIGN
(OUT OF PLANE CHORDS NOT SHOWN FOR CLARITY)

CAMBER DIAGRAM

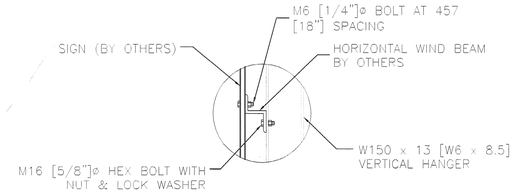
NOTE:

CAMBER WILL BE ACHIEVED BY SHORTENING LOWER CHORD PIPES BY AN AMOUNT SUCH THAT POSITIVE UPWARD DEFLECTION IS PRODUCED WHEN TRUSSES ARE BROUGHT TOGETHER AT SPLICES.

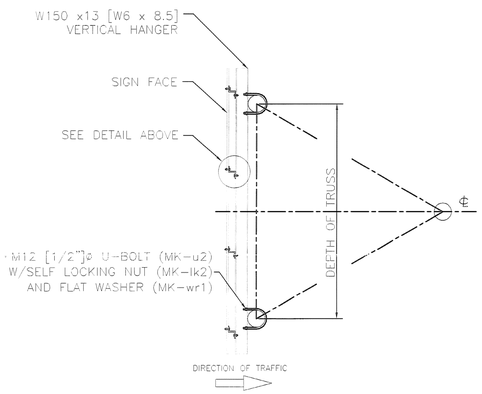


SIDE VIEW

FOOTING ELEVATION IS ASSUMED. CONTRACTOR TO VERIFY ELEVATIONS BEFORE FABRICATION.



SIGN ATTACHMENT DETAIL



SIGN MOUNTING DETAIL

VERTICAL HANGER BEAMS & U-BOLTS INCLUDED

GWC RLT RLT 06/14/07

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED. ENGLISH CONVERSION SHOWN IN [ ] FOR REFERENCE ONLY.

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI-CHORD SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.128.70 SB
PROJECT No. AC IM 091-2(73)

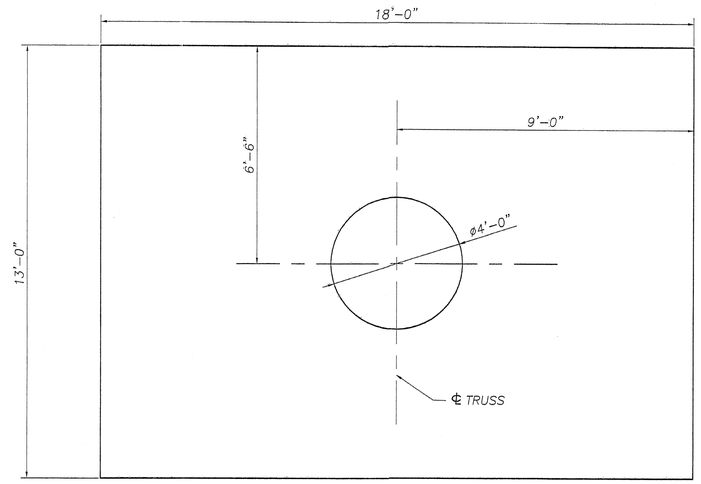
GENERAL CONTRACTOR

SUB CONTRACTOR F.R. LAFAYETTE

DESIGN	MHM
CHECKED	P Radice
DATE	3/23/07
SCALE	N.T.S.
HSC REFERENCE NO.	1587a
SIZE D	REVISION 0
SHEET NO.	1 of 8

Ryegate - St. Johnsbury AC IM (091-2073)
EA # 0912073-300

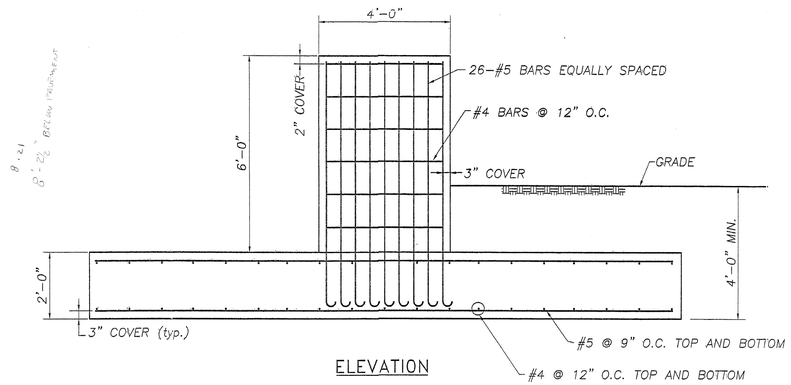
SHOP DRAWINGS



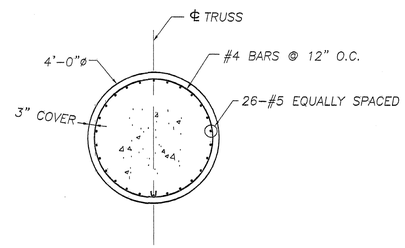
PLAN

REBAR LIST

REBAR	PCS. REQRD.	LENGTH
#4	14	9'-4"
#4	76	12'-6"
#5	72	17'-6"
#5 (HOOK ONE END)	52	8'-6"



ELEVATION



PLAN (STEM)

REVISIONS		
No.	Remarks	Date
0	Initial submittal	
1	Second submittal	6/22/07

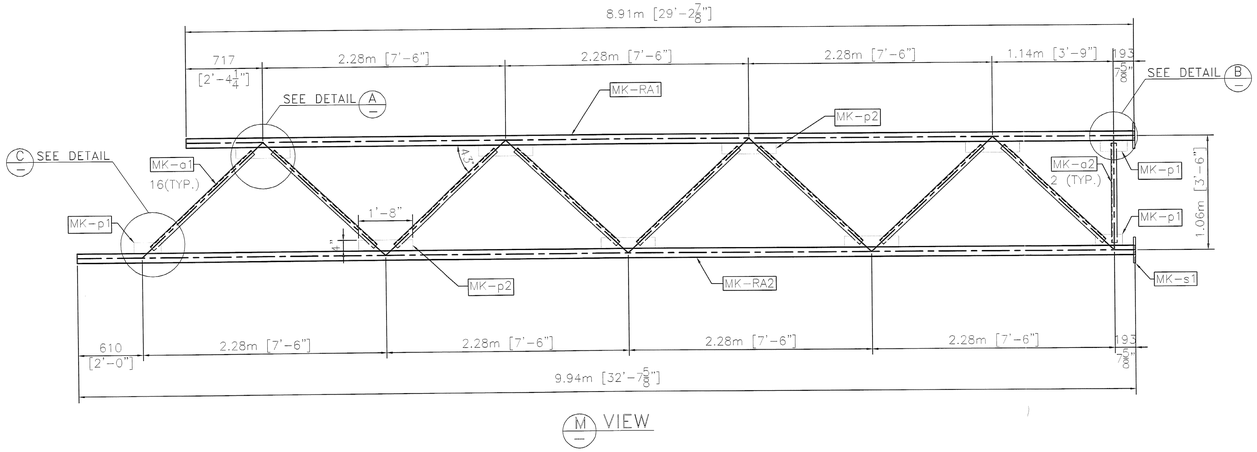
HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI-CHORD SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.128.70 SB
PROJECT No. AC IM 091-2(73)

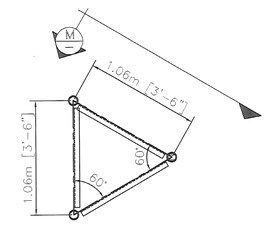
GENERAL CONTRACTOR

SUB CONTRACTOR F.R. LAFEYETTE

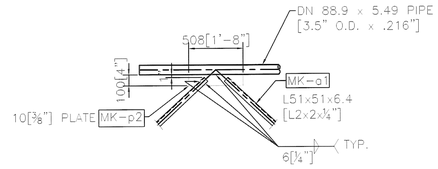
DRAWN MHM
CHECKED P Radice
DATE 3/23/07
SCALE N.T.S.
HSC REFERENCE NO. 1587a
SIZE D REVISION 1
SHEET NO. 8 of 8



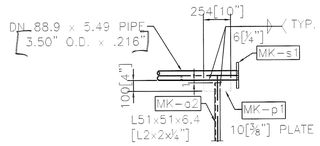
M VIEW



SIDE VIEW



DETAIL "A"



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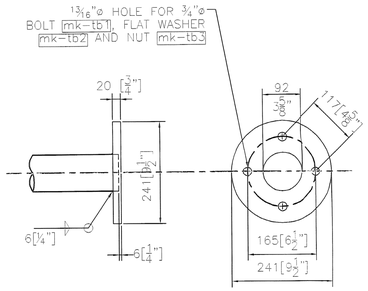
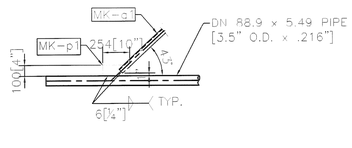


SPLICE DETAIL
MK-s1



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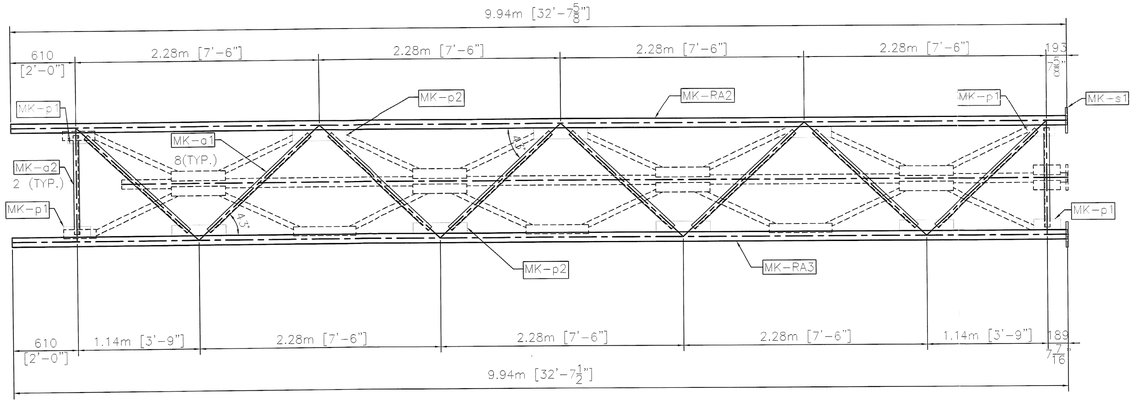

FRONT VIEW

TRUSS 1

GJC RLT
RLT AS NOTED 06/14/07

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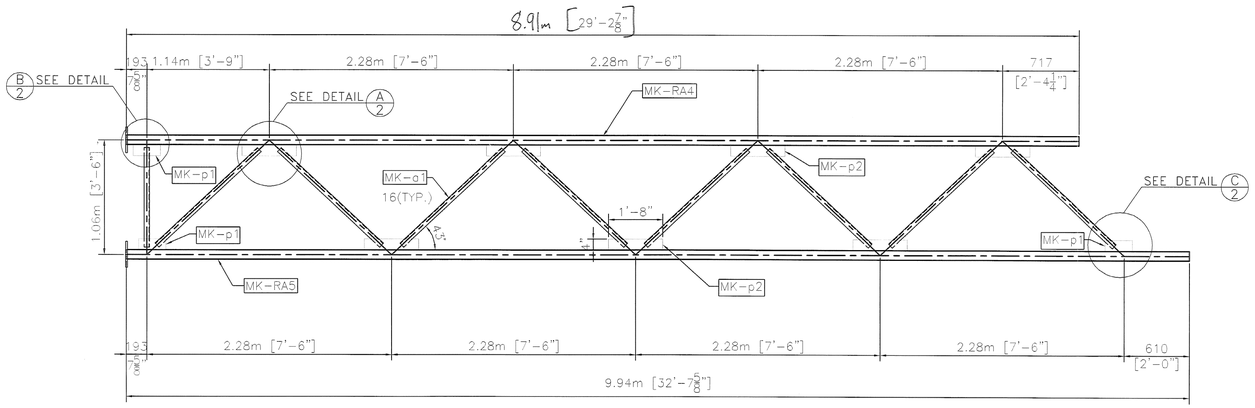
REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

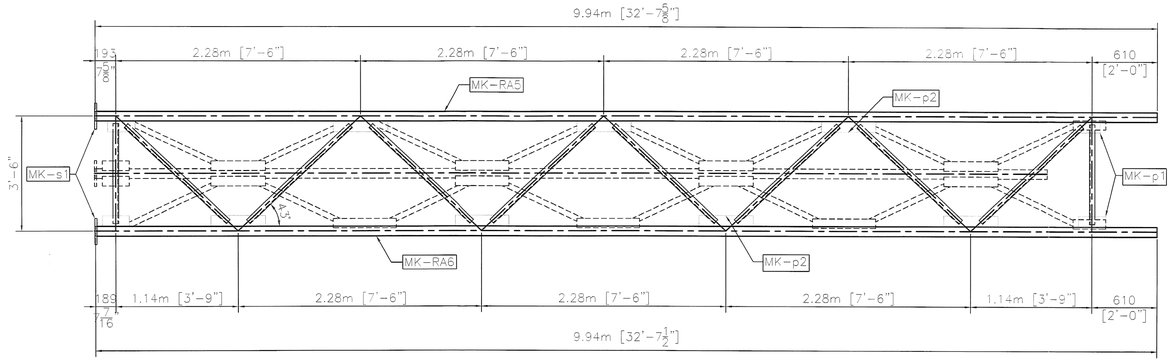
TRI-CHORD SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.128.70 SB
PROJECT No. AC IM 091-2(73)

GENERAL CONTRACTOR
SUB CONTRACTOR F.R. LAFAYETTE

DRAWN MHM
CHECKED P Radice
DATE 3/23/07
SCALE NTS
HSC REFERENCE NO. 1587a
SIZE D REVISION 0
SHEET NO. 2 of 8

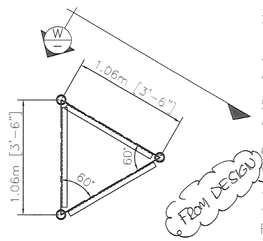


W/2 VIEW



FRONT VIEW

TRUSS 2



SIDE VIEW

NOTE:

1. STRUCTURE DESIGNED IN ACCORDANCE WITH LATEST EDITION AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS.

2. ALL HOLES FOR HIGH STRENGTH FASTENERS SHALL BE DRILLED OR SUB-PUNCHED FULL SIZE. SLOTTED HOLES AND/OR VENT OR ACCESS HOLES MAY BE CUT WITH MECHANICALLY GUIDED PLASMA OR MECHANICALLY GUIDED FLAME TORCH.

3. GRIND SHARP CORNERS OF ALL PLATES TO A $\frac{1}{16}$" MIN. RADIUS PRIOR TO GALVANIZING.

4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AWS D1.1.

5. ALL STEEL PLATES FOR STRUCTURAL COMPONENTS SHALL BE ASTM A709 GR. 50.

6. STEEL PLATES AND SHAPES FOR NON-STRUCTURAL COMPONENTS SHALL BE ASTM A709 GR. 36.

7. STEEL PIPES FOR STRUCTURAL MEMBERS SHALL HAVE MINIMUM YIELD OF 48 ksi AND SHALL CONFORM TO ONE OF THE FOLLOWING GRADES: ASTM A500 GR. B, ~~A53 GR. B~~ OR API 5LX42.

FROM DESIGN → 42 ksi

8. UNLESS OTHERWISE NOTED, ALL BOLTS FOR STRUCTURAL CONNECTIONS SHALL BE M164 TYPE 1 (A325).

A53 GR B HSS F_y = 36 KSI

9. GALVANIZED U-BOLTS FOR CONNECTION OF SIGN HANGER BEAMS TO TRUSS SHALL BE ASTM F-1554 GR. 36.

10. ALL STRUCTURAL STEEL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M111 (ASTM A123).

11. ALL HARDWARE, UNLESS OTHERWISE NOTED, SHALL BE HOT-DIPPED GALVANIZED PER AASHTO M232 (ASTM A153).

12. ANCHOR HARDWARE SHALL BE STAINLESS STEEL AND MEET REQUIREMENTS OF VAOT STANDARD SPECIFICATION 714.09.

13. CONCRETE AND REBAR SHOWN IN FOOTING DESIGN TO BE FURNISHED BY OTHERS.

14. FOUNDATION DESIGN BASED ON USE OF 3000 psi MINIMUM CONCRETE.

15. SPACE BETWEEN THE TOP OF CONCRETE AND THE BOTTOM OF STEEL BASE PLATE SHALL BE FILLED WITH TYPE IV MORTAR AFTER LEVELING.

16. BOLTS INSTALLED IN STRUCTURAL CONNECTIONS SHALL BE PROVIDED AND TENSIONED PER APPLICABLE PROVISIONS OF VDOT VAOT STANDARD SPECIFICATIONS SECTION 506.

GWC RLT
RLT AS NOTED 06/14/07

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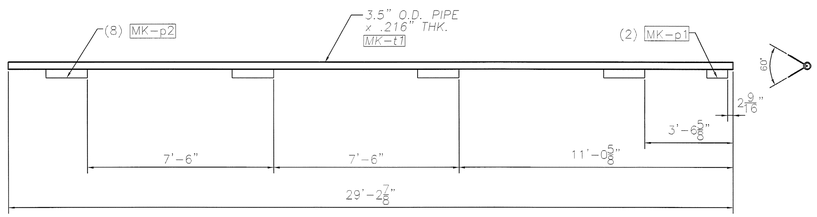
REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

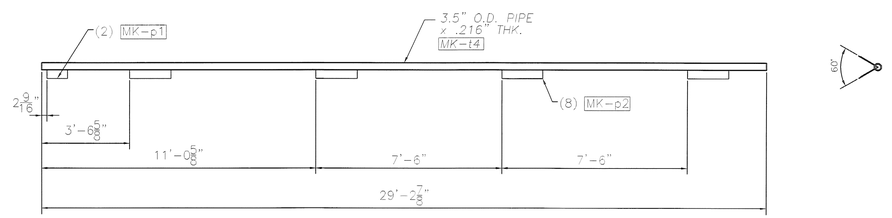
TRI-CHORD SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.128.70 SB
PROJECT No. AC IM 091-2(73)

GENERAL CONTRACTOR
SUB CONTRACTOR F.R. LAFAYETTE

DRAWN MHM
CHECKED P Radice
DATE 3/23/07
SCALE NTS
HSC REFERENCE NO. 1587a
SIZE D REVISION 0
SHEET NO. 3 of 8



MK-RA1



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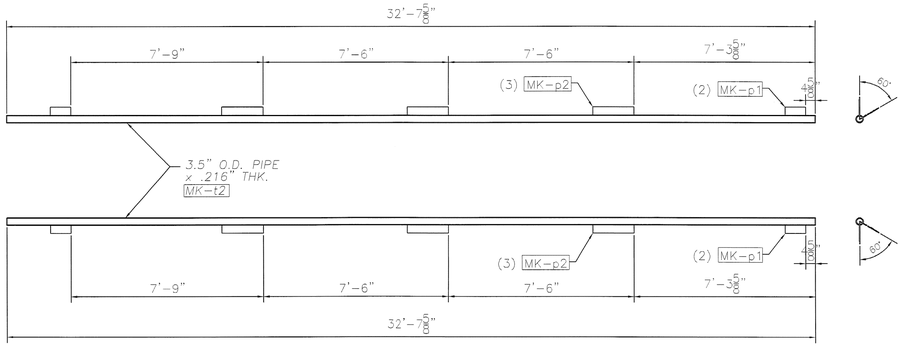
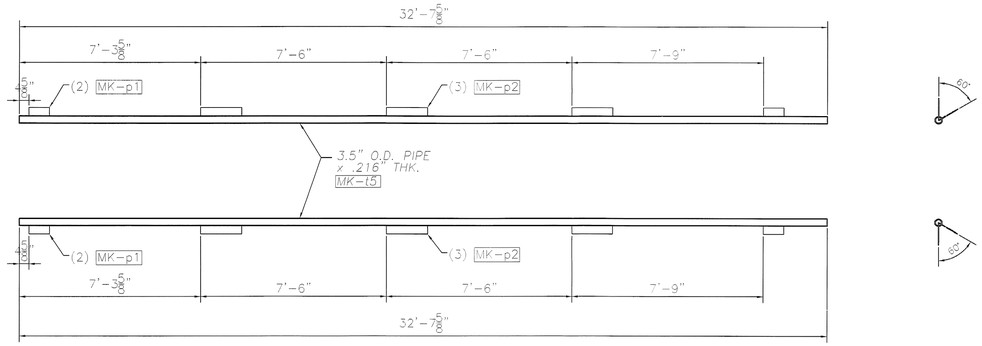
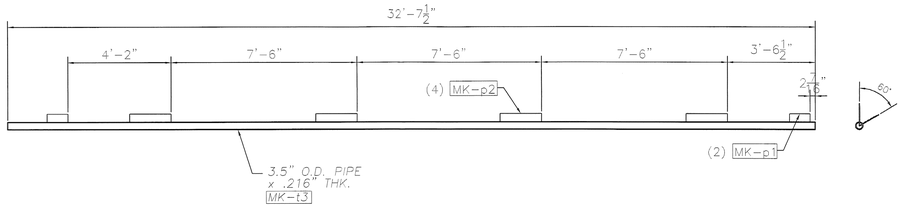
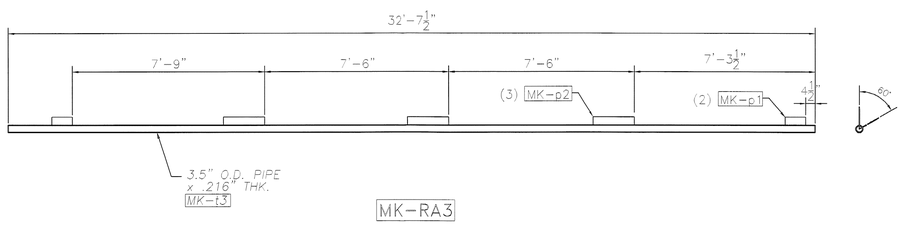


MK-RA2



MK-RA5





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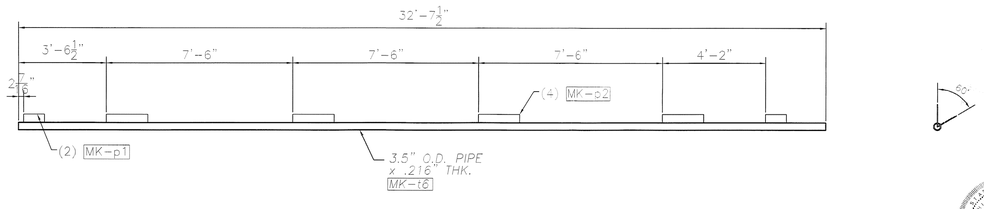
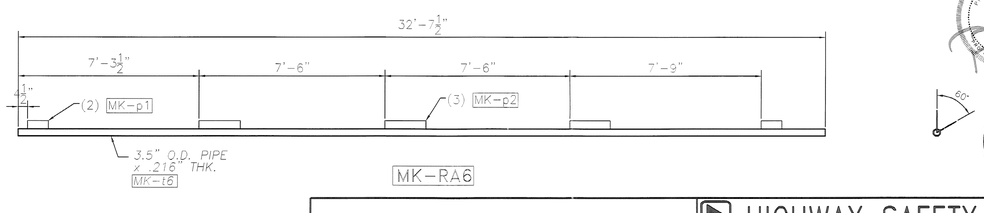




MK-RA6

GJC RLT
RLT X
06/19/07

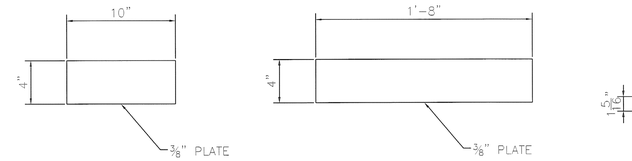
REVISIONS		
No.	Remarks	Date
0	initial submittal	

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI-CHORD SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.128.70 SB
PROJECT No. AC IM 091-2(73)

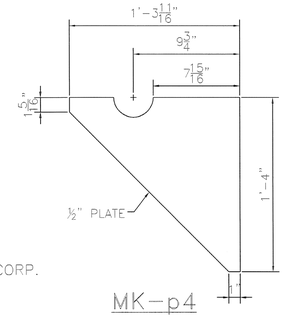
GENERAL CONTRACTOR
SUB CONTRACTOR F.R. LAFAYETTE

DRAWN	MHM
CHECKED	P Rodier
DATE	3/23/07
SCALE	NTS
HSC REFERENCE NO.	1587a
SIZE D	REVISION 0
SHEET NO.	5 of 8



MK–p1

MK–p2



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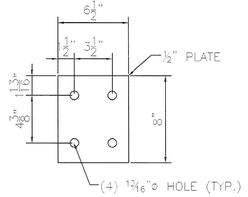
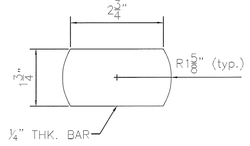
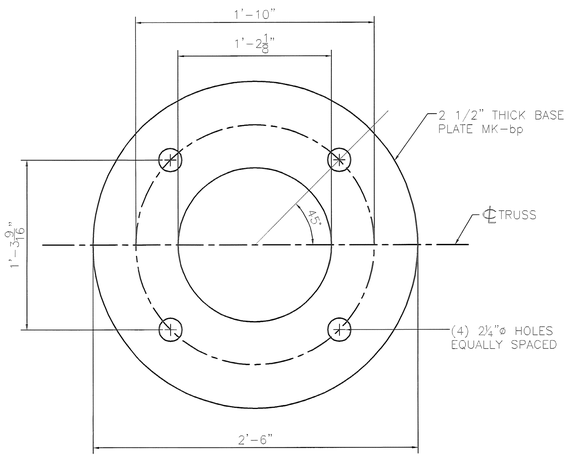


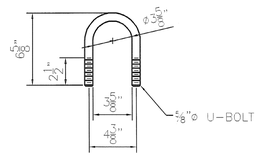
MK–p3



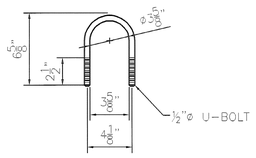
MK–br1



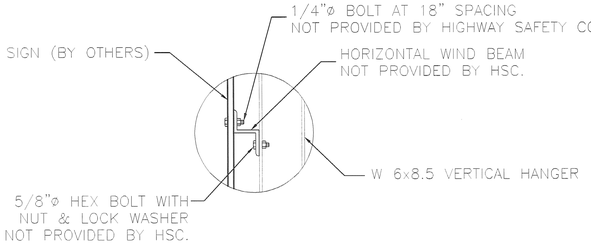
MK–bp



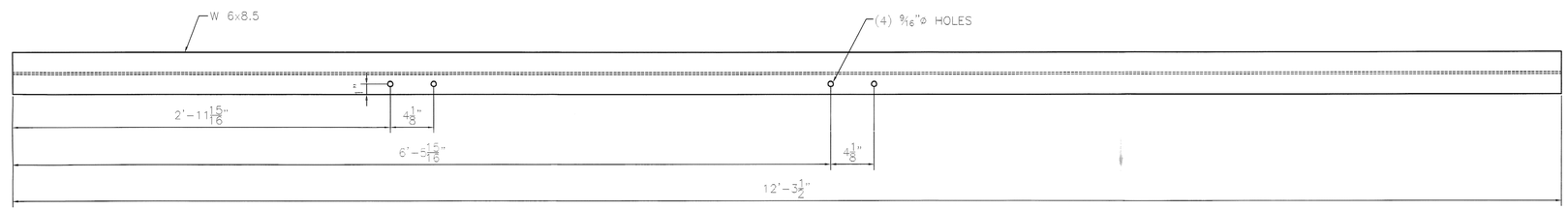
MK–u1



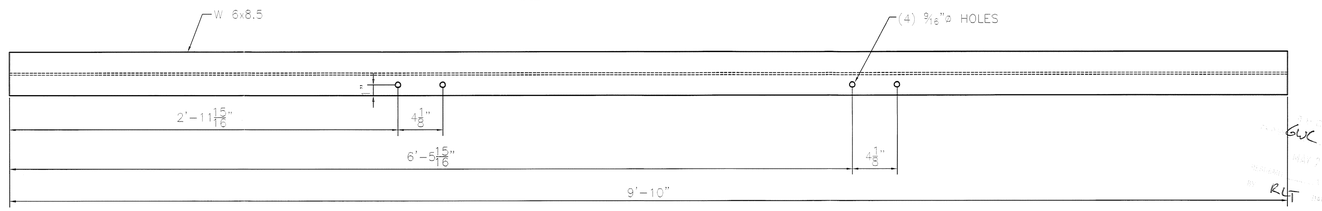
MK–u2



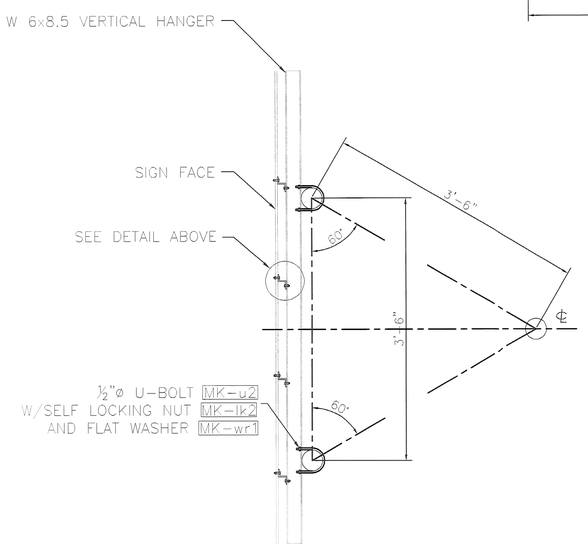
SIGN ATTACHMENT DETAIL



MK–vh1



MK–vh2



SIGN MOUNTING DETAIL

VERTICAL HANGER BEAMS & U–BOLTS INCLUDED

GLX RLT RLT 06/14/07

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.

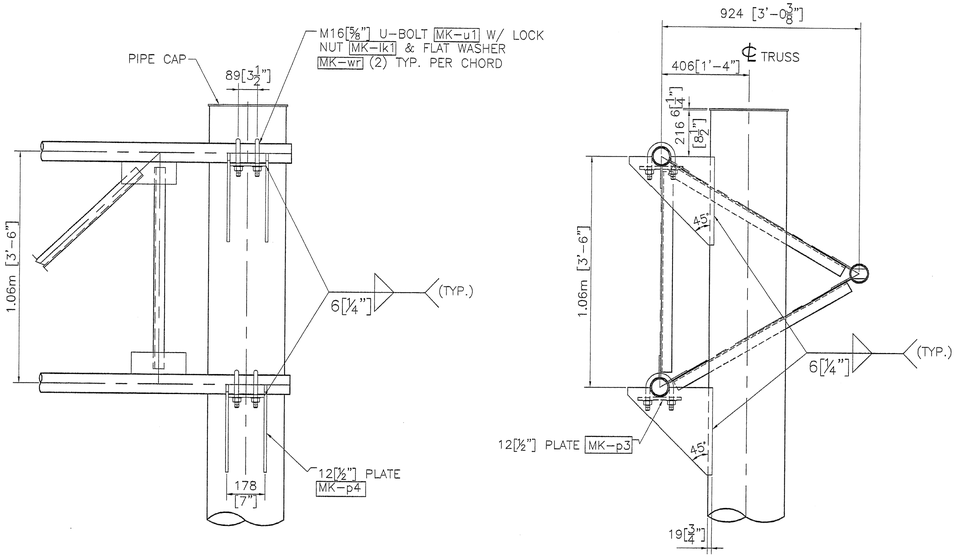
GLASTONBURY, CT

TRI–CHORD SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.128.70 SB
PROJECT No. AC IM 091–2(73)

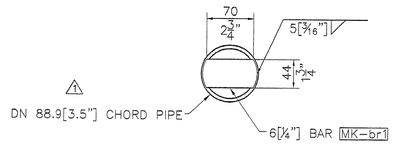
GENERAL CONTRACTOR

SUB CONTRACTOR
F.R. LAFAYETTE

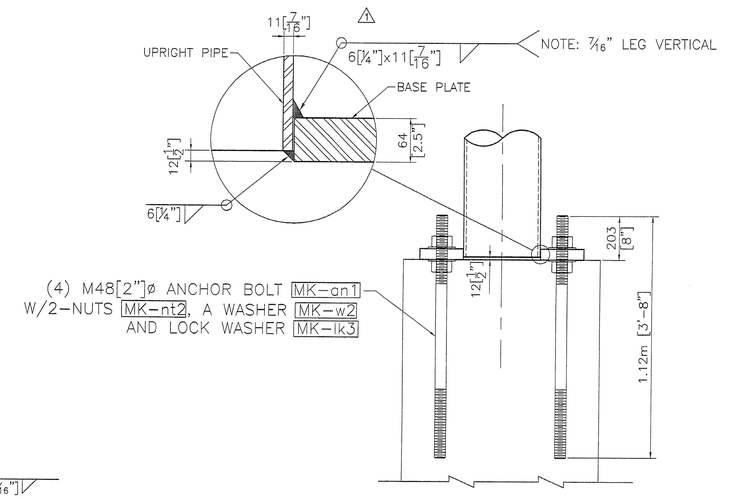
DESIGN	MHM
CHECKED	P Radice
DATE	3/23/07
SCALE	NTS
HSC REFERENCE NO.	1587a
SIZE D	REVISION 0
SHEET NO.	6 of 8



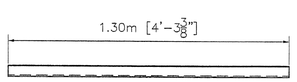
TRUSS CONNECTION DETAIL



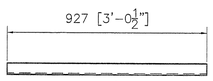
PLUG DETAIL
(EACH END OF TRUSS CHORD)



ANCHORAGE ASSEMBLY



MK-a1
L51x51x6.4
[L2x2x¼"]



MK-a2
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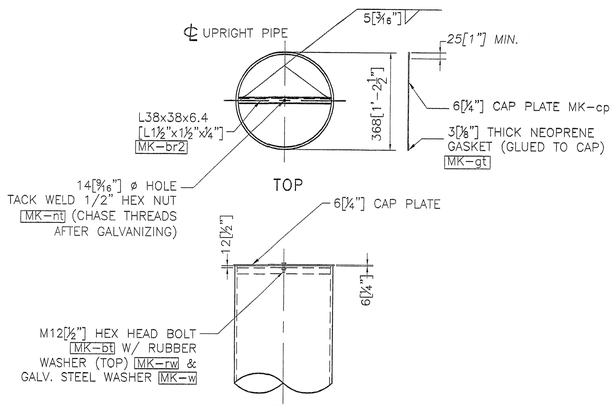
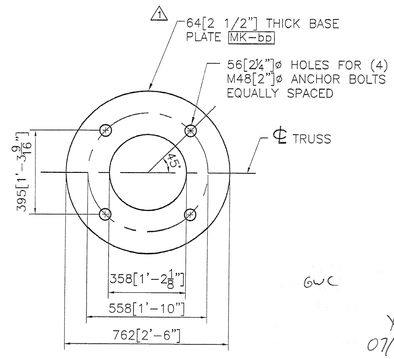
[L2x2x¼"]



UPRIGHT CAP DETAIL

ASSEMBLE CAP TO POST PRIOR TO SHIPPING.



BASE PLATE DETAIL

NOTE:
BASE PLATE SHALL BE STAMPED WITH THE VERTICAL POLE DIAMETER (VD.), HEIGHT (VHT.), YIELD STRENGTH (VYS.), GAUGE(VGE.), AND SAME FOR HORIZONTAL MEMBER (HD.), (HYS.), AND (HGE.).

NEWEST

GWC

Y
07/13/07

STATE OF VERMONT PHILIP B. CHENEY 6163 REGISTERED PROFESSIONAL ENGINEER

QUALITY CERTIFICATION AISC

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED. ENGLISH CONVERSION SHOWN IN [ ] FOR REFERENCE ONLY.

REVISIONS		
No.	Remarks	Date
0	Initial submittal	
1	Second submittal	6/22/07

HIGHWAY SAFETY CORP.
GLASTONBURY, CT

TRI-CHORD SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.128.70 SB
PROJECT No. AC IM 091-2(73)

GENERAL CONTRACTOR

SUB CONTRACTOR F.R. LAFAYETTE

DRAWN	MHM
CHECKED	P Radice
DATE	3/23/07
SCALE	NTS
HSC REFERENCE NO.	1587a
SIZE	D
REVISION	⚠1
SHEET NO.	4 of 8

Highway Safety Corporation

Glastonbury, CT

Welding Procedure Specification

Material specification: ASTM A36, A572 gr 50, A709 Gr 36, ASTM A709 Gr 50, A500 gr B

Welding process: Gas Metal Arc Welding (GMAW)

Manual, semi-automatic, or automatic: Semi-Automatic

Position of welding: Horizontal (2F)

Filler metal specification: AWS A5.18

Filler metal classification: ER70S-3

Electrode and manufacturer: Lincoln Electric Lincoln Weld L-50

Flux and manufacturer: N/A

Shielding gas: 85% Argon / 15% CO2 Flow rate: 19-27 L / min

Single or multiple pass: Single

Single or multiple arc: Single

Welding current: DC

Polarity: Reverse

Welding progression: Stringers

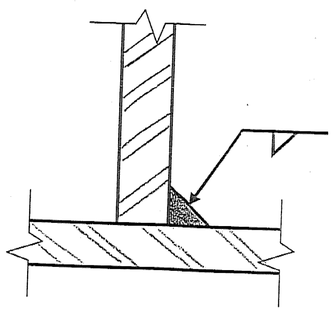
Root treatment: None

Preheat and interpass temperature: Base Metal up to 3/4" (50ºF) ; over 3/4-1 1/2" (70ºF)

Postheat treatment: None

Electrode extension: 3/4" ± 1/4"

WELDING PROCEDURE

Weld size	Pass no.	Electrode size	Welding parameters Amperes	Welding parameters Volts	Travel speed	Joint detail
3/16"	1	0.045"	300 A ± 30	29 V ± 2	28 ipm ± 2	TYPICAL ALL FILLET WELDS 
1/4"	1	0.045"	300 A ± 30	29 V ± 2	14 ipm ± 2	

VTRANS

WJS

6/19/07

This procedure may vary due to fabrication sequence, fit-up, pass size, etc. within the limitation of variables given in section 5 of latest edition AWS D1.1

WPS no. W-1587-1

Revision no. 0

Supporting PQR no. Pre-qualified

Project Name Ryegate, Vermont

Fabricator Highway Safety Corporation

Authorized by Paul Radice

Date 5/15/07

Project Number ACIM 091-2(73)

AWS QC 1 PAUL A. RADICE 08070221 CWI

VERMONT

State of Vermont
PDD/Structures Design Section
National Life Building – Drawer 33
Montpelier, VT 05633-5001
www.aot.state.vt.us

[phone] 802-828-2621
[fax] 802-828-3566
[ttd] 800-253-0191

Agency of Transportation

June 19, 2007

Highway Safety Corp
ATTN: Paul Radice
239 Commerce Street
P. O. Box 358
Glastonbury, CT 06033-0358

Project Name: Ryegate – St. Johnsbury **Project #: AC IM 091-2 (73)**

Structure Identification: TRI-CHORD SIGN STRUCTURE – I91 STA 128+70 SB

The following **Tri Chord Sign Structure** details [Item #677.13, Name (OVERHEAD TRAFFIC SIGN SUPPORT, MULTI-SUPPORT)] for the above project (Vendor's Job #**1587a**) transmitted with your letter dated 29–May–07 have been reviewed and are being returned herewith.

Sheets: 1, 5 and 6 are approved

Sheets: 2, 3 are 7 are approved "as noted"

Sheets: 4 and 8 are to be reconsidered (note comments in red) and resubmitted for final approval.

Structure Identification: CANTILEVER SIGN STRUCTURE – I91 STA 127.9820 NB

The following **Cantilever Sign Structure** details [Item #677.12, Name (OVERHEAD TRAFFIC SIGN SUPPORT, CANTILEVER)] for the above project (Vendor's Job #**1587b**) transmitted with your letter dated 29–May–07 have been reviewed and are being returned herewith.

Sheets: 3 are approved

Sheets: 1-2, 4-6 are approved "as noted"

VTrans Working to Get You There
Vermont Agency of Transportation

Project Name: Ryegate – St. Johnsbury **Project #:** AC IM 091-2 (73)

Structure Identification: CANTILEVER SIGN STRUCTURE – I91 STA 127.628 NB

The following **Cantilever Sign Structure** details [Item #677.12, Name (OVERHEAD TRAFFIC SIGN SUPPORT, CANTILEVER)] for the above project (Vendor's Job #**1587c**) transmitted with your letter dated 29–May–07 have been reviewed and are being returned herewith.

Sheets: 3 are approved

Sheets: 1-2, 4-6 are approved "as noted"

The Note Below refers to all structures

There shall be no fabrication done until all drawings and welding procedures are approved. You must provide notice to our fabrication inspector, Jeff Clark, as to the date fabrication represented by these drawings will begin. That notice must be received and acknowledged at least seven days prior to that date, as per Specification 506.03. Jeff may be contacted by phone at (802)828-0044 or email at jeff.clark@state.vt.us. Any material fabricated prior to the notification date is subject to rejection without further cause.

Sincerely,

Roger L. Thompson PE
Roadway Project Manager

Attachments
cc: [X] Resident Engineer Jim Forest w/prints
[X] Shop Inspector Jeff Clark w/prints
[X] Contractor (Highway Safety)w/prints
[X] Sub Contractor (F.R. Lafayette)w/prints
[X] Construction Division – letter only
[X] Materials & Research Section (C&IA Unit) – letter only
[X] Files (Structures & Central)

VERMONT

State of Vermont
PDD/Structures Design Section
National Life Building – Drawer 33
Montpelier, VT 05633-5001
www.aot.state.vt.us

[phone] 802-828-2621
[fax] 802-828-3566
[ltd] 800-253-0191

Agency of Transportation

July 13, 2007

Highway Safety Corp
ATTN: Paul Radice
239 Commerce Street
P. O. Box 358
Glastonbury, CT 06033-0358

Project Name: Rvegate – St. Johnsbury Project #: AC IM 091-2 (73)

Structure Identification: TRI-CHORD SIGN STRUCTURE – I91 STA 128+70 SB

The following **Tri Chord Sign Structure** details [Item #677.13, Name (OVERHEAD TRAFFIC SIGN SUPPORT, MULTI-SUPPORT)] for the above project (Vendor's Job #**1587a**) transmitted with your letter dated 05–July–07 have been reviewed and are being returned herewith.

Sheets: 4 and 8 resubmitted on 7/5/07 are approved

The Note Below refers to all structures

There shall be no fabrication done until all drawings and welding procedures are approved. You must provide notice to our fabrication inspector, Jeff Clark, as to the date fabrication represented by these drawings will begin. That notice must be received and acknowledged at least seven days prior to that date, as per Specification 506.03. Jeff may be contacted by phone at (802)828-0044 or email at jeff.clark@state.vt.us. Any material fabricated prior to the notification date is subject to rejection without further cause.

Sincerely,

Roger L. Thompson

Roger L. Thompson PE
Roadway Project Manager

Attachments
cc: [X] Resident Engineer Jim Forest w/prints
[X] Shop Inspector Jeff Clark w/prints
[X] Contractor (Highway Safety)w/prints
[X] Sub Contractor (F.R. Lafayette)w/prints
[X] Construction Division – letter only
[X] Materials & Research Section (C&IA Unit) – letter only
[X] Files (Structures & Central)

VTrans Working to Get You There
Vermont Agency of Transportation

Highway Safety Corporation

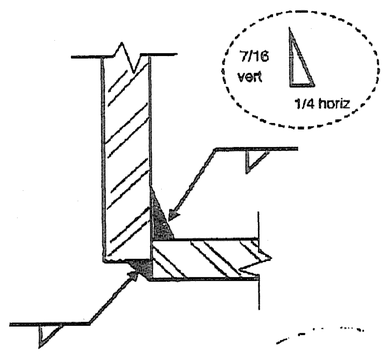
Glastonbury, CT

Welding Procedure Specification

Material specification: **ASTM A36, A572 gr 50, A709 Gr 36, ASTM A709 Gr 50, A500 gr B**
Welding process: **Gas Metal Arc Welding (GMAW)**
Manual, semi-automatic, or automatic: **Semi-Automatic**
Position of welding: **Horizontal (2F)**
Filler metal specification: **AWS A5.18**
Filler metal classification: **ER70S-3**
Electrode and manufacturer: **Lincoln Electric Lincoln Weld L-50**
Flux and manufacturer: **N/A**
Shielding gas: **85% Argon / 15% CO2** Flow rate: **19-27 L / min**
Single or multiple pass: **Single & Multiple**
Single or multiple arc: **Single**
Welding current: **DC**
Polarity: **Reverse**
Welding progression: **Stringers**
Root treatment: **None**
Preheat and interpass temperature: **Base Metal up to 3/4" (50ºF) ; over 3/4-1 1/2" (70ºF)**
Postheat treatment: **None**
Electrode extension: **3/4" ± 1/4"**

WELDING PROCEDURE

Weld size	Pass no.	Electrode size	Welding parameters: Amperes	Welding parameters: Volts	Travel speed	Joint detail
7/16" x 1/4"	1 & 2	0.045"	300 A ± 30	29 V ± 2	14 ipm ± 2	UN-EQUAL LEG FILLET WELD @ BASE PLATE CONNECTION



VTRAWS

6/19/07

This procedure may vary due to fabrication sequence, fit-up, pass size, etc. within the limitation of variables given in section 5 of latest edition AWS D1.1

AWS QC 1 PAUL A RADICE 99076221 CWI

WPS no. **W-1587-2**
Revision no. **1** **6/19/2007**
Supporting PQR no. **Pre-qualified**
Project Name **Ryegate, Vermont**

Fabricator **Highway Safety Corporation**
Authorized by **Paul Radice**
Date **5/15/07**
Project Number **ACIM 091-2(73)**

MK-LP

MK-RP

erection mark	piece qty	item description	size/shape	length/qty per unit	material notes
		TRUSS 1 ASSEMBLY			
RA1		**CHORD PIPE ASSEMBLY**			
t1	1	pipe	3.5" O.D.x 0.216" wall	29'-2.875"	A500 gr B ~~A53 gr B~~ API 5LX42
p1	2	plate	PL 0.375" x 4"	10"	A709 gr 50
p2	8	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
a1	16	angle	L2"x2"x.25"	4'-3.375"	A36
a2	2	angle	L2"x2"x.25"	3'-0.50"	A36
br1	1	plate	0.25" x 1.75"	3.25"	A36
s1	1	splice plate	0.75" x 9.50" O.D.		A709 gr 50
RA2		**CHORD PIPE ASSEMBLY**			
t2	1	pipe	3.5" O.D.x 0.216" wall	32'-7.625"	A500 gr B ~~A53 gr B~~ API 5LX42
p1	4	plate	PL 0.375" x 4"	10"	A709 gr 50
p2	6	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
a1	8	angle	L2"x2"x.25"	4'-3.375"	A36
a2	2	angle	L2"x2"x.25"	3'-0.50"	A36
br1	1	plate	0.25" x 1.75"	3.25"	A36
s1	1	splice plate	0.75" x 9.50" O.D.		A709 gr 50
RA3		**CHORD PIPE ASSEMBLY**			
t3	1	pipe	3.5" O.D.x 0.216" wall	32'-7.50"	A500 gr B ~~A53 gr B~~ API 5LX42
p1	4	plate	PL 0.375" x 4"	10"	A709 gr 50
p2	7	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
br1	1	plate	0.25" x 1.75"	3.25"	A36
s1	1	splice plate	0.75" x 9.50" O.D.		A709 gr 50
		TRUSS 2 ASSEMBLY			
RA4		**CHORD PIPE ASSEMBLY**			
t4	1	pipe	3.5" O.D.x 0.216" wall	29'-2.875"	A500 gr B ~~A53 gr B~~ API 5LX42
p1	2	plate	PL 0.375" x 4"	10"	A709 gr 50
p2	8	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
a1	16	angle	L2"x2"x.25"	4'-3.375"	A36
a2	2	angle	L2"x2"x.25"	3'-0.50"	A36
br1	1	plate	0.25" x 1.75"	3.25"	A36
s1	1	splice plate	0.75" x 9.50" O.D.		A709 gr 50
RA5		**CHORD PIPE ASSEMBLY**			
t5	1	pipe	3.5" O.D.x 0.216" wall	32'-7.625"	A500 gr B ~~A53 gr B~~ API 5LX42
p1	4	plate	PL 0.375" x 4"	10"	A709 gr 50
p2	6	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
a1	8	angle	L2"x2"x.25"	4'-3.375"	A36
a2	2	angle	L2"x2"x.25"	3'-0.50"	A36
br1	1	plate	0.25" x 1.75"	3.25"	A36
s1	1	splice plate	0.75" x 9.50" O.D.		A709 gr 50
RA6		**CHORD PIPE ASSEMBLY**			
t6	1	pipe	3.5" O.D.x 0.216" wall	32'-7.50"	A500 gr B ~~A53 gr B~~ API 5LX42
p1	4	plate	PL 0.375" x 4"	10"	A709 gr 50
p2	7	plate	PL 0.375" x 4"	1'-8"	A709 gr 50
br1	1	plate	0.25" x 1.75"	3.25"	A36
s1	1	splice plate	0.75" x 9.50" O.D.		A709 gr 50
		VERTICAL PIPE ASSEMBLY			
LP		**LEFT PIPE ASSEMBLY**			
a3	1	pipe	14" O.D.x 0.44" wall	24'-7"	A500 gr B ~~A53 gr B~~ API 5LX42
p3	2	plate	PL 0.5" x 6.5"	8"	A572 gr 50
p4	4	plate	PL 0.5" x 1'-3.688"	1'-4"	A572 gr 50
cp	1	plate	0.25" X 1'-2.5" O.D.		A36
br2	1	angle	L 1.5"x1.5"x.25"	1'-1"	A36
gt	1	gasket	.125"x1'-2.5" O.D.		50 duro. Neoprene
nt	1	hex nut	.50" dia.		A563
bt	1	hex bolt	.50" dia.	1.5"	A307
w	1	washer	.50" dia.		F844
rw	1	rubber washer	.50" dia.		50 duro. Neoprene
bp	1	base plate	2.5" x 2'-6" O.D.		A572 gr 50
RP		**LEFT PIPE ASSEMBLY**			
a4	1	pipe	14" O.D.x 0.44" wall	25'-6"	A500 gr B ~~A53 gr B~~ API 5LX42
p3	2	plate	PL 0.5" x 6.5"	8"	A572 gr 50
p4	4	plate	PL 0.5" x 1'-3.688"	1'-4"	A572 gr 50
cp	1	plate	0.25" X 1'-2.5" O.D.		A36
br2	1	angle	L 1.5"x1.5"x.25"	1'-1"	A36
gt	1	gasket	.125"x1'-2.5" O.D.		50 duro. Neoprene
nt	1	hex nut	.50" dia.		A563
bt	1	hex bolt	.50" dia.	1.5"	A307
w	1	washer	.50" dia.		F844
rw	1	rubber washer	.50" dia.		50 duro. Neoprene
bp	1	base plate	2.5" x 2'-6" O.D.		A572 gr 50
		LOOSE ITEMS			
vh1	3	sign hanger	W6x8.5	12'-3.50"	A36
vh2	7	sign hanger	W6x8.5	9'-10"	A36
u1	8	u-bolt	0.625" dia.	6.625"	F1554 Gr. 36
lk1	16	lock nut	0.625" dia.		A563 DH
w1	16	washer	0.625" dia.		F436
u2	20	u-bolt	0.50" dia.	6.625"	F1554 Gr. 36
lk2	40	lock nut	0.50" dia.		A563 DH
w1	40	washer	0.50" dia.		F436
tb1	24	hex bolt	0.75" dia.	3"	A325
tb2	4	washer	0.75" dia.		F543
tb3	4	hex nut	0.75" dia.		A563 DH
an1	8	anchor bolt	2" dia.	3'-8"	S/S A276 T304
nt2	16	hex nut	2" dia.		S/S A194B T304
lk3	16	lock washer	2" dia.		S/S TY 304
w2	16	flat washer	2" dia.		S/S TY 304

A53 GR B, $F_y = 36$ DESIGN = 42

8
12 (3 connections)

GLC RLT RLT AS NOTED 06/14/07

REVISIONS		
No.	Remarks	Date
0	Initial submittal	

HIGHWAY SAFETY CORP.

GLASTONBURY, CT

TRI-CHORD SIGN STRUCTURE
STATE OF VERMONT
COUNTY OF CALEDONIA
INTERSTATE RTE. 91 STA.128.70 SB
PROJECT No. AC IM 091-2(73)

GENERAL CONTRACTOR

SUB CONTRACTOR F.R. LAFAYETTE

DRAWN	MHM
CHECKED	P Radice
DATE	3/23/07
SCALE	
HSC REFERENCE NO.	1587a
SIZE D	REVISION 0
SHEET NO.	7 of 8