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**STANDARDS LIST**

E-192	10/12/2000
E-193	8/18/1995
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T-12	8/6/2012
T-22	8/6/2012
T-23	8/6/2012
T-24	8/6/2012
T-28	8/6/2012
T-29	8/6/2012
T-31	8/6/2012

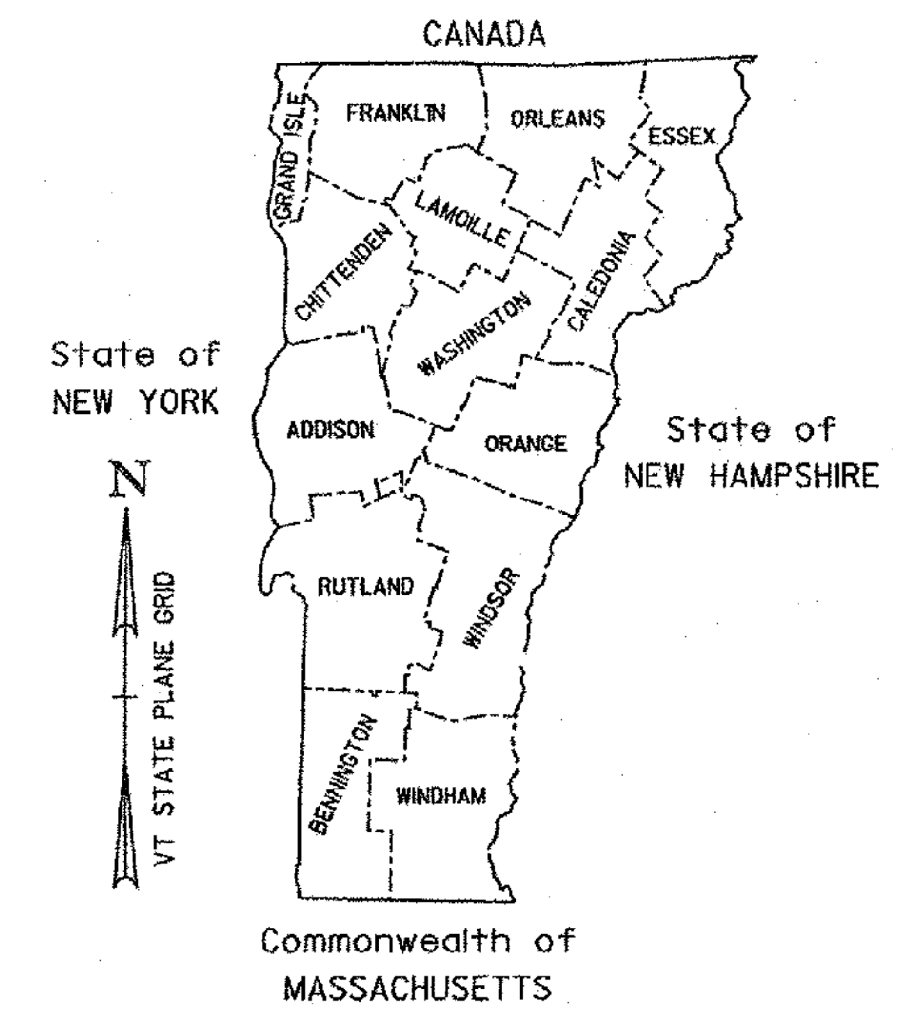
# STATE OF VERMONT AGENCY OF TRANSPORTATION



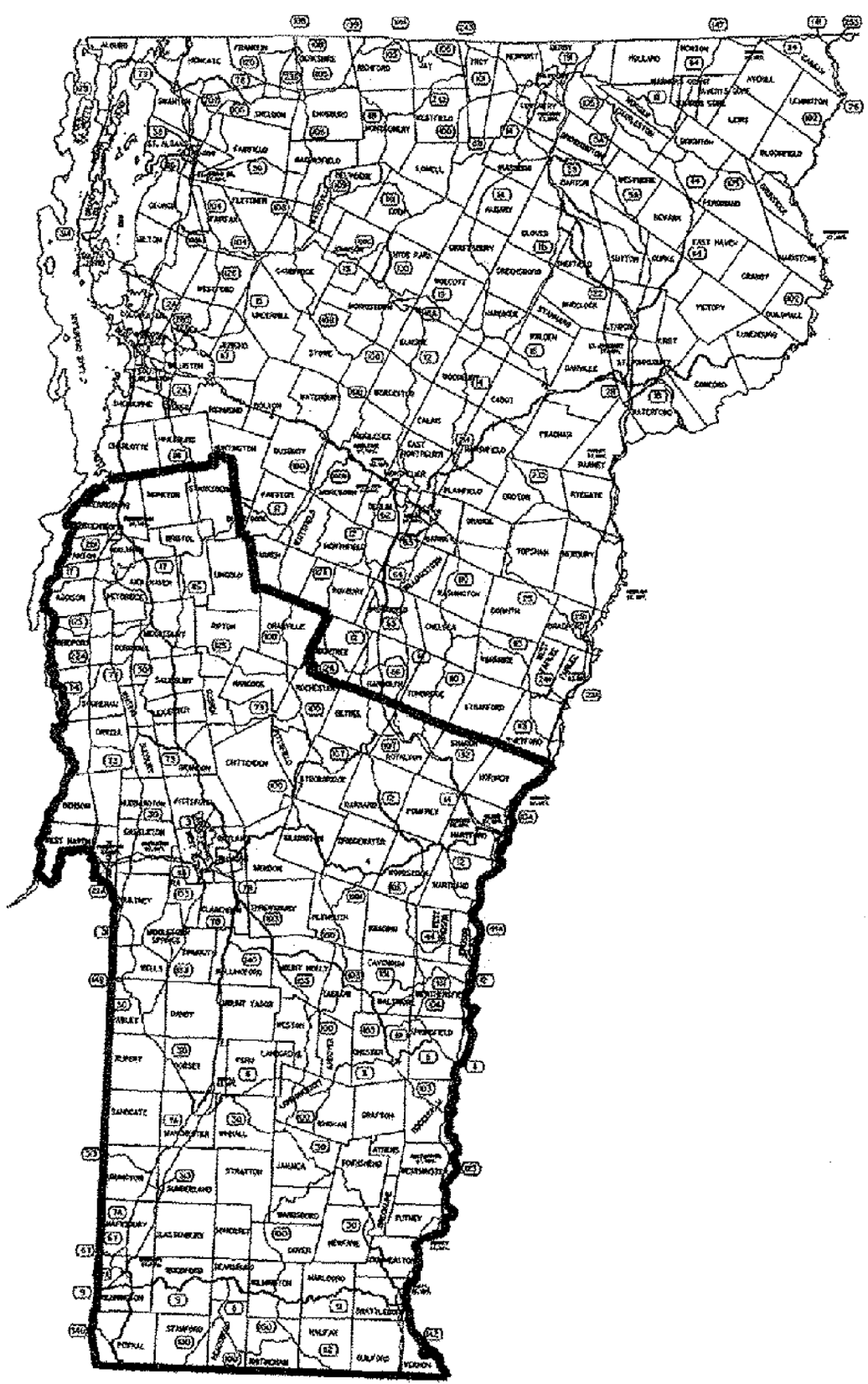
## PROPOSED IMPROVEMENT STATEWIDE - SOUTH REGION NATIONAL HIGHWAY SYSTEM, STATE ROAD AND CLASS 1 TOWN HIGHWAYS

APPLICATION OF CENTER LINE, EDGE LINE AND LANE LINE MARKINGS ON NATIONAL HIGHWAY AND STATE SYSTEM ROADS AND CENTER LINE MARKINGS ON CLASS 1 TOWN HIGHWAYS WITHIN ADDISON, BENNINGTON, RUTLAND, WINDHAM, AND WINDSOR COUNTIES.

LENGTH OF PROJECT 1098.914 MI = 5,802,265.92 LF

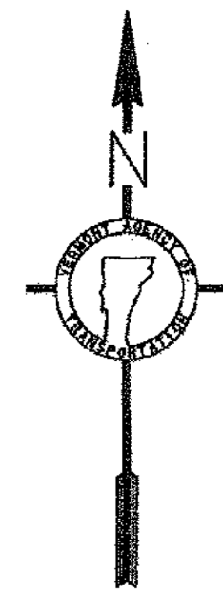


RECORD PLANS	
CONTRACTOR:	L&D SAFETY MARKINGS CORP.-BERLIN, VT
RESIDENT ENGINEER:	TOM CHASE
CONSTRUCTION BEGAN:	JUNE 15, 2016
CONSTRUCTION COMPLETE:	OCTOBER 11, 2016
RECORD PLANS BY:	TOM CHASE & JESSE IVES
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY:	<i>Thomas A. Chase</i> RESIDENT ENGINEER
DATE:	<i>October 17, 2017</i>
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.	



BUILT AS DESIGNED

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.



QUALITY ASSURANCE PROGRAM : LEVEL I	
SURVEYED BY :	N/A
SURVEYED DATE :	N/A
DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

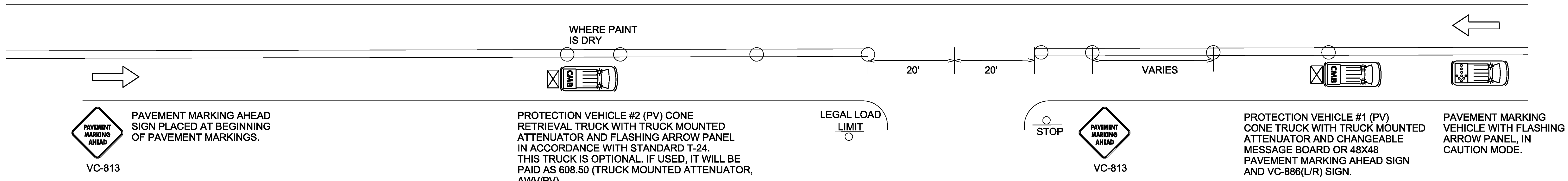
DIRECTOR OF PROJECT DELIVERY	
APPROVED <i>[Signature]</i>	DATE <i>2/22/2016</i>
PROJECT MANAGER : PATRICIA COBURN P.E.	
PROJECT NAME : STATEWIDE - SOUTH REGION	
PROJECT NUMBER : STPG MARK(305)	
SHEET I OF II SHEETS	

# QUANTITY SHEET

SUMMARY OF ESTIMATED QUANTITIES													TOTALS			DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
													ROADWAY	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
													1350	1350		HR	TRUCK-MOUNTED ATTENUATOR, AWW/PV	608.50	EST.			
													725	725		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.			
													1	1		LS	MOBILIZATION/DEMOBILIZATION	635.11	--			
													1	1		LS	TRAFFIC CONTROL	641.10	--			
													9389000	9389000		LF	4 INCH WHITE LINE, WATERBORNE PAINT (FPQ)	646.201	FPQ			
													8408000	8408000		LF	4 INCH YELLOW LINE, WATERBORNE PAINT (FPQ)	646.2111	FPQ			
													550000	550000		LF	6 INCH WHITE LINE, WATERBORNE PAINT	646.2141	EST.			
													463000	463000		LF	6 INCH YELLOW LINE, WATERBORNE PAINT	646.2151	EST.			
													9500	9500		LF	8 INCH WHITE LINE, WATERBORNE PAINT	646.221	EST.			
													23050	23050		LF	8 INCH YELLOW LINE, WATERBORNE PAINT	646.231	EST.			
													11850	11850		LF	12 INCH WHITE LINE, WATERBORNE PAINT	646.241	EST.			
													550	550		LF	12 INCH YELLOW LINE, WATERBORNE PAINT	646.251	EST.			

PROJECT NAME: STATEWIDE SOUTH REGION  
 PROJECT NUMBER: STPG MARK(305)  
 FILE NAME: +15+046frm.dgn PLOT DATE: 2/19/2016  
 PROJECT LEADER: P. COBURN DRAWN BY: K. RECORD  
 DESIGNED BY: K. RECORD CHECKED BY: I. DEGUTIS  
 QUANTITY SHEET SHEET 2 OF 11

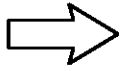
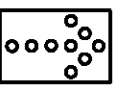




# TRAFFIC CONTROL PLAN



**NOTES**

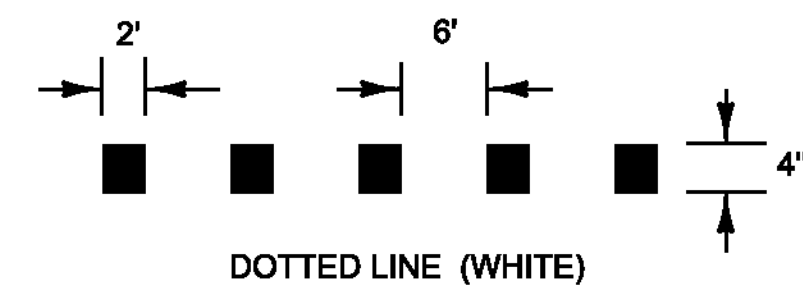
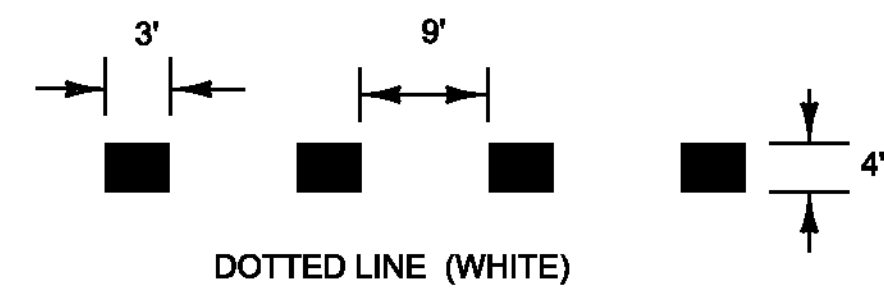
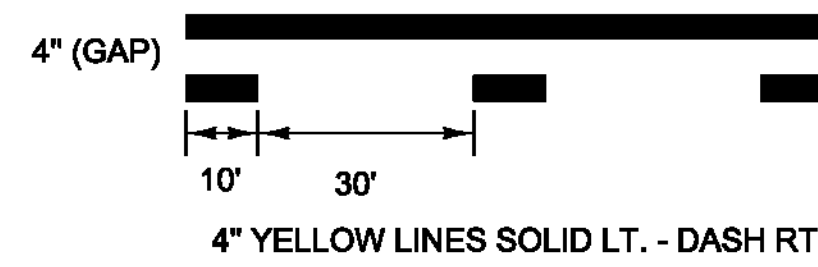
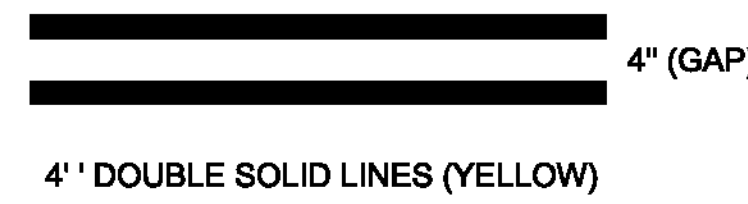
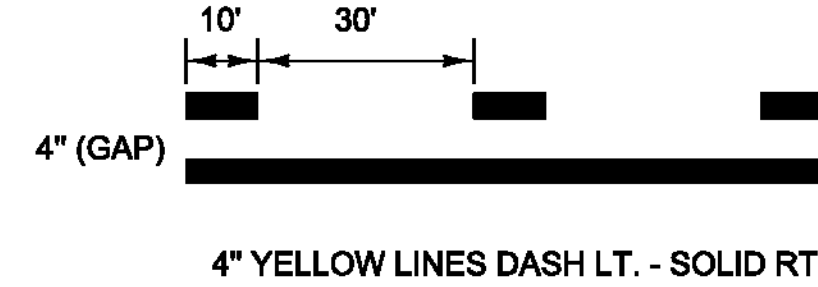
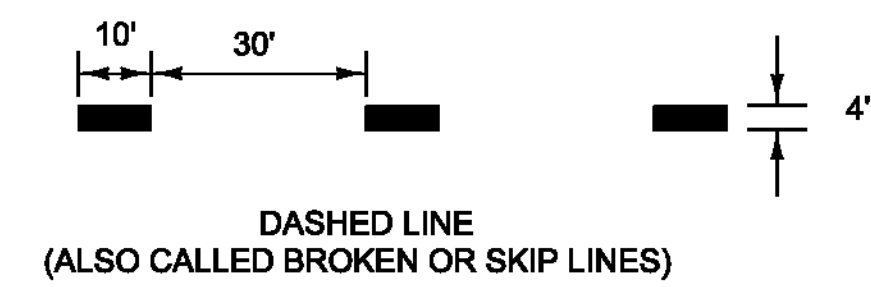
1. ALL WORK VEHICLES USED SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE LIGHTS.
2. ALL PROTECTION VEHICLES SHALL BE EQUIPPED WITH A TRUCK MOUNTED ATTENUATOR WITH A VC-866(L/R) SIGN IN ACCORDANCE WITH STANDARD T-29 ATTACHED AND A FLASHING ARROW PANEL IN ACCORDANCE WITH STANDARD T-24. PAYMENT WILL BE MADE UNDER ITEM 608.50 (TRUCK MOUNTED ATTENUATOR, AWW/PV).
3. FLASHING ARROW PANELS MOUNTED TO VEHICLES WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED INCIDENTAL TO ITEM 641.10 (TRAFFIC CONTROL). FLASHING ARROW PANELS SHALL BE USED IN CAUTION MODE WHEN VEHICLE IS IN TRAVEL LANE.
4. PROTECTION VEHICLE #1 SHALL TRAVEL AT A VARYING DISTANCE FROM PAVEMENT MARKING VEHICLE WHILE SETTING CONES ON THE WET PAINT TO ENSURE ADEQUATE SIGHT DISTANCE FOR TRAFFIC APPROACHING FROM THE REAR.
5. UNIFORMED TRAFFIC OFFICER (UTO) REQUIRED FOR NIGHT WORK, AND AT OTHER TIMES AS DIRECTED BY THE ENGINEER. UNIFORMED TRAFFIC OFFICERS WILL BE PAID UNDER ITEM 630.10.
6. THE NUMBER OF CHANNELIZING DEVICES AND OTHER TRAFFIC CONTROL DEVICES SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE ACTUAL NUMBER REQUIRED IS TO BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE MUTCD AND STANDARD T-24 BASED ON FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
7. CONE VEHICLES SHALL HAVE PROTECTIVE CAGES TO PROTECT THE PERSON PLACING AND RETRIEVING CONES.
8. PAVEMENT MARKING AHEAD SIGNS IN ACCORDANCE WITH STANDARD T-28 SHALL BE PLACED AT THE BEGINNING OF PAVEMENT MARKING OPERATION AND AT A MINIMUM OF EVERY 3 MILES. THEY SHALL ALSO BE PLACED AFTER EVERY NUMBERED STATE HIGHWAY OR MAJOR INTERSECTION INCLUDING COMMERCIAL DRIVES.
9. WORK VEHICLES SHALL PULL OVER TO ALLOW VEHICLES TO PASS AT REASONABLE INTERVALS TO AVOID EXCESSIVE QUEUING AND DELAYS.
10. CONE PICK-UP MAY BE ACCOMPLISHED USING DEDICATED VEHICLE (PV#2) OR BY PROTECTION VEHICLE #1 WHEN PAINT TRUCK IS NOT OPERATING AND PAINT IS DRY. QUANTITY OF 608.50 (TRUCK MOUNTED ATTENUATOR, AWW/PV) SHALL BE MEASURED AS THE NUMBER OF VEHICLE HOURS USED.
11. CONES SHALL BE LEFT IN PLACE UNTIL PAINT IS DRY AND NOT TRACKING.
12. ALL TRAFFIC CONTROL ITEMS WILL BE PAID UNDER PAY ITEM 641.10 UNLESS OTHERWISE SPECIFIED.

**LEGEND**

-  INDICATES TRAFFIC FLOW
-  FLASHING ARROW PANEL
-  TRUCK MOUNTED ATTENUATOR
-  CHANGEABLE MESSAGE BOARD
-  28" RETROREFLECTORIZED CONE
-  MARKING OPERATIONS VEHICLE

NOT TO SCALE

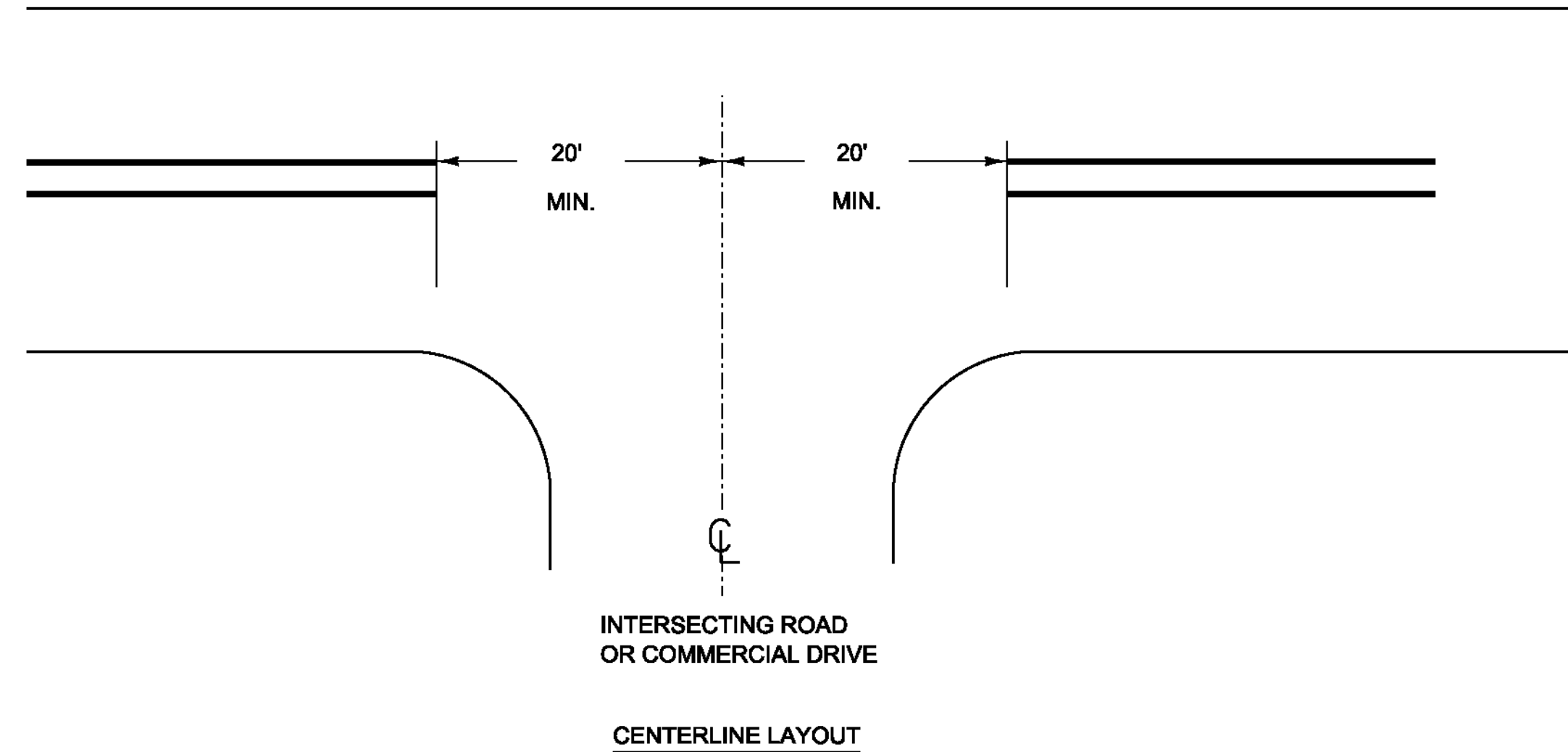
PROJECT NAME: STATEWIDE SOUTH REGION	
PROJECT NUMBER: STPG MARK(305)	
FILE NAME: t15t046frm.dgn	PLOT DATE: 3/15/2016
PROJECT LEADER: P. COBURN	DRAWN BY: K. RECORD
DESIGNED BY: K. RECORD	CHECKED BY: I. DEGUTIS
TRAFFIC CONTROL PLAN	SHEET 3 OF 11



PAVEMENT MARKING LINE DETAILS

NOTES:

- ALL MARKINGS SHALL BE APPLIED TO MATCH EXISTING OR AS DIRECTED BY THE ENGINEER.
- IN AREAS THAT HAVE 6 INCH MARKINGS THERE SHALL BE A 6 INCH GAP WITH A 6 INCH LINE WIDTH. MARKINGS SHOULD MATCH EXISTING.

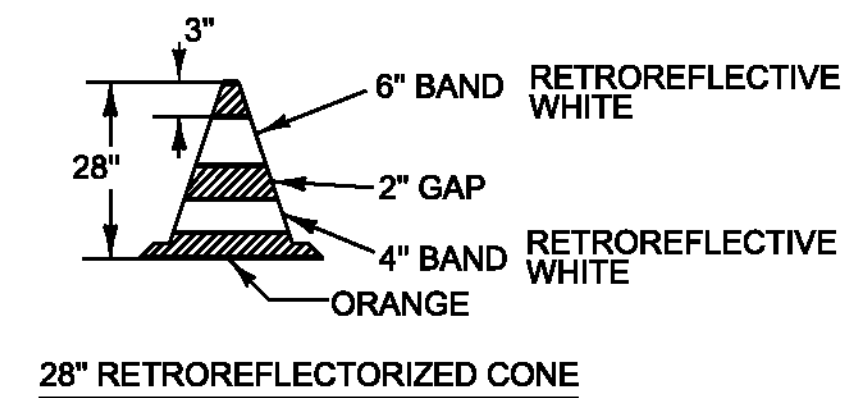


CENTERLINE BREAKS:

- AT ALL STATE HIGHWAYS, TOWN HIGHWAYS THAT HAVE STOP OR YIELD SIGNS INSTALLED.
- COMMERCIAL DRIVES:
  - WHERE A SEPARATE TURN LANE EXISTS ON THE MAIN LINE (LT. OR RT.).
  - WHERE SIGNIFICANT TRAFFIC VOLUMES EXIST.

GENERAL NOTES:

- STATE HIGHWAY SYSTEM ROADS SHALL BE MARKED WITH YELLOW CENTERLINE AND WHITE EDGELINE AND LANE LINES TO MATCH EXISTING. CLASS 1 TOWN HIGHWAYS SHALL BE MARKED WITH YELLOW CENTERLINE ONLY.
- 4 INCH WHITE LINE, WATERBORNE PAINT AND 4 INCH YELLOW LINE, WATERBORNE PAINT ARE DESIGNATED AS FINAL PAY QUANTITY ITEMS IN ACCORDANCE WITH SUBSECTION 109.10. IF ROADS ARE ADDED OR REMOVED FROM FPQ ITEMS SHALL USE THE FOLLOWING FACTORS TO CORRELATE CENTERLINE MILES OF ROADWAY TO LINEAR FEET OF PAINTED LINE.  
4 INCH WHITE LINE, WATERBORNE PAINT: 10665.6 LINEAR FEET PER CENTERLINE MILE  
4 INCH YELLOW LINE, WATERBORNE PAINT: 8976.0 LINEAR FEET PER CENTERLINE MILE
- ROADS THAT ARE SCHEDULED FOR REPAIR, PART OF AN ACTIVE CONSTRUCTION PROJECT, OR WHICH HAVE MARKINGS WHICH DO NOT NEED TO BE REPAINTED AND SHALL BE EXCLUDED AT THE DIRECTION OF THE ENGINEER. ESTIMATED QUANTITIES ASSUME 10% OF THE SYSTEM WILL BE EXCLUDED FROM CONTRACT WORK.
- ESTIMATED QUANTITIES FOR ALL OTHER MARKING ITEMS WERE BASED ON FACTORS DETERMINED FROM PREVIOUS PROJECTS. THE TOTAL QUANTITY MEASURED FOR PAYMENT WILL BE THE ACTUAL QUANTITY MARKED AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL WORK WITH VTRANS TO SCHEDULE MARKING ON ALL ROADS THAT ARE SCHEDULED FOR REPAIRS OR RETREATMENT.
- LANES TO BE PAINTED ON BOTH SIDES SHALL BE MARKED IN MULTIPLE PASSES SUCH THAT TRAFFIC DOES NOT TRAVEL BETWEEN WET PAINT ON BOTH SIDES AT ANY TIME.
- TOWN HIGHWAY MAPS ARE AVAILABLE FOR REFERENCE IF NEEDED FROM THE VTRANS WEBSITE.
- MARKINGS SHALL MATCH EXISTING, OR AS DIRECTED BY THE ENGINEER. THE PLANS INDICATE 6 INCH MARKINGS BASED ON BEST AVAILABLE INFORMATION. ROUNDABOUTS AND OTHER LOCATIONS MAY ALSO HAVE 6 INCH MARKINGS AND SHALL BE MARKED TO MATCH EXISTING. PAYMENT WILL BE FOR THE QUANTITY APPLIED OF EACH MARKING AS DIRECTED BY THE ENGINEER.
- 8 INCH AND 12 INCH WHITE AND YELLOW LINES SHALL BE MARKED AND MATCH EXISTING, OR AS DIRECTED BY THE ENGINEER.
- SIDE ROAD RADII SHALL BE MARKED IN ACCORDANCE WITH STD. E-193.
- ROUTES NOTED AS NIGHT WORK IN THE PLANS ARE REQUIRED TO BE MARKED AT NIGHT. THE CONTRACTOR MAY PROPOSE OTHER ROUTES TO BE MARKED AT NIGHT SUBJECT TO APPROVAL BY THE ENGINEER. A UNIFORMED TRAFFIC OFFICER WITH BLUE LIGHT SHALL BE REQUIRED FOR ALL NIGHT WORK.
- ROUTES LABELED NHS IN THE PLANS SHALL BE COMPLETED BY THE INTERIM COMPLETION DATE PER THE CONTRACT DOCUMENTS. THESE NOTES SHOULD NOT BE USED TO DETERMINE THE INCLUSION OF ANY ROAD ON THE NATIONAL HIGHWAY SYSTEM FOR ANY OTHER PURPOSE. THE TABLE BELOW PROVIDES A SUMMARY OF THE WORK COVERED BY THIS INTERIM COMPLETION DATE.



NOTES:

- 28" RETROREFLECTORIZED CONES SHALL BE USED ON ALL ROADWAYS.
- CONES MAY BE WEIGHTED TO PREVENT OVER-TURNING, HOWEVER THE WEIGHTS SHALL NOT PRESENT A HAZARD IF THE CONE IS STRUCK.

NHS ROUTES	TOTAL LENGTH (MI)	TOTAL LENGTH (LF)
US-7	133.031	702403.68
VT-279	12.801	67589.28
VT-9	44.707	236052.96
US-4	44.901	237077.28
VT-103	42.500	224400.00
<b>TOTAL</b>	<b>277.94</b>	<b>1467523.2</b>

NOT TO SCALE

PROJECT NAME: STATEWIDE SOUTH REGION  
PROJECT NUMBER: STPG MARK(305)

FILE NAME: +15+046frm.dgn PLOT DATE: 3/3/2016  
PROJECT LEADER: P. COBURN DRAWN BY: K. RECORD  
DESIGNED BY: K. RECORD CHECKED BY: I. DEGUTIS  
MISCELLANEOUS DETAILS SHEET SHEET 4 OF 11

**SUMMARY BY ROUTE OF STATE HIGHWAYS AND CLASS 1 TOWN HIGHWAYS**

COUNTY	TOWN NAME	ROUTE NAME	HIGHWAY SIGN	SEGMENT LENGTH (MI)	SEGMENT LENGTH (LF)	COMMENTS
RUTLAND COUNTY	WEST RUTLAND	BR US-BR4	BR US-BR4	1.007	5316.96	
RUTLAND COUNTY	WEST RUTLAND	BR US-BR4	BR US-BR4	0.425	2244.00	
RUTLAND COUNTY	WEST RUTLAND	BR US-BR4	BR US-BR4	0.425	2244	DIVIDED
RUTLAND COUNTY	WEST RUTLAND	BR US-BR4	BR US-BR4	0.061	322.08	
RUTLAND COUNTY	WEST RUTLAND	BR US-BR4	BR US-BR4	0.061	322.08	DIVIDED
RUTLAND COUNTY	WEST RUTLAND	BR US-BR4	BR US-BR4	0.195	1029.60	JUGHANDLE
RUTLAND COUNTY	RUTLAND TOWN	BR US-BR4	BR US-BR4	0.790	4171.20	
RUTLAND COUNTY	RUTLAND TOWN	BR US-BR4	BR US-BR4	0.207	1092.96	
RUTLAND COUNTY	RUTLAND TOWN	BR US-BR4	BR US-BR4	0.207	1092.96	DIVIDED
RUTLAND COUNTY	RUTLAND CITY	TH-2	BUS-4	1.942	10253.76	
<b>BR US- BR4 TOTAL</b>				<b>5.320</b>	<b>28089.60</b>	

WINDHAM COUNTY	BRATTLEBORO	NSH-BSH	BRATTLEBORO STATE HIGHWAY	0.135	712.80	BEGINS AT EXT 3 AND ENDS AT ROUNDABOUT.
WINDHAM COUNTY	BRATTLEBORO	NSH-BSH	BRATTLEBORO STATE HIGHWAY	0.135	712.80	DIVIDED
<b>BRATTLEBORO STATE HIGHWAY TOTAL</b>				<b>0.270</b>	<b>1425.60</b>	

BENNINGTON COUNTY	BENNINGTON	NSH-BNSH	BENNINGTON STATE HIGHWAY	0.236	1246.08	BEGINS AT US 7 EXT 2 OFF RAMP AND ENDS AT VT 7A.
BENNINGTON COUNTY	BENNINGTON	NSH-BNSH	BENNINGTON STATE HIGHWAY	0.236	1246.08	DIVIDED
<b>BENNINGTON NORTH STATE HIGHWAY TOTAL</b>				<b>0.472</b>	<b>2492.16</b>	

RUTLAND COUNTY	CASTLETON	NSH-CSH	CASTLETON STATE HIGHWAY	0.398	2101.44	BEGINS AT VT 4A AND ENDS APPROXIMATELY 300 FEET PAST OFF RAMP
<b>CASTLETON STATE HIGHWAY TOTAL</b>				<b>0.398</b>	<b>2101.44</b>	

RUTLAND COUNTY	CLARENDON	NSH-CSH	CLARENDON STATE HIGHWAY	0.914	4825.92	BEGINS AT AIRPORT AND ENDS AT VT 103
<b>CLARENDON STATE HIGHWAY TOTAL</b>				<b>0.914</b>	<b>4825.92</b>	

RUTLAND COUNTY	FAIR HAVEN	TH-8	FAIR HAVEN STATE HIGHWAY	0.011	58.08	
RUTLAND COUNTY	FAIR HAVEN	NSH-FHSH	FAIR HAVEN STATE HIGHWAY	0.587	3099.36	BEGINS AT INTERSECTION OF 4TH ST AND ENDS APPROXIMATELY 250 FT PAST OFF RAMP
RUTLAND COUNTY	FAIR HAVEN	TH-8	FAIR HAVEN STATE HIGHWAY	0.023	121.44	
<b>FAIR HAVEN STATE HIGHWAY TOTAL</b>				<b>0.621</b>	<b>3278.88</b>	

ADDISON COUNTY	FERRISBURGH	NSH-FSH	FERRISBURGH STATE HIGHWAY	0.136	718.08	
ADDISON COUNTY	VERGENNES	TH-1	FERRISBURGH STATE HIGHWAY	0.663	3500.64	BEGINS AT US 7 AND ENDS AT VT 22A
<b>FERRISBURGH STATE HIGHWAY TOTAL</b>				<b>0.799</b>	<b>4218.72</b>	

WINDSOR COUNTY	NORWICH	NSH-NSH	NORWICH STATE HIGHWAY	1.150	6072.00	
WINDSOR COUNTY	NORWICH	NSH-NSH	NORWICH STATE HIGHWAY	0.018	95.04	BEGINS AT VT 10A AND ENDS AT US 5
<b>NORWICH STATE HIGHWAY TOTAL</b>				<b>1.168</b>	<b>6167.04</b>	

WINDHAM COUNTY	PUTNEY	NSH-PSH	PUTNEY STATE HIGHWAY	0.289	1525.92	
WINDHAM COUNTY	PUTNEY	NSH-PSH	PUTNEY STATE HIGHWAY	0.073	385.44	BEGINS AT INTERSTATE AND ENDS AT US 5
<b>PUTNEY STATE HIGHWAY TOTAL</b>				<b>0.362</b>	<b>1911.36</b>	

COUNTY	TOWN NAME	ROUTE NAME	HIGHWAY SIGN	SEGMENT LENGTH (MI)	SEGMENT LENGTH (LF)	COMMENTS
WINDSOR COUNTY	HARTFORD	NSH-QSH	QUECHEE STATE HIGHWAY	0.123	649.44	BEGINS AT EXT 1 RAMP AND ENDS AT US 4.
WINDSOR COUNTY	HARTFORD	NSH-QSH	QUECHEE STATE HIGHWAY	0.123	649.44	DIVIDED
<b>QUECHEE STATE HIGHWAY TOTAL</b>				<b>0.246</b>	<b>1298.88</b>	

WINDHAM COUNTY	WESTMINSTER	NSH-WMSH	WESTMINSTER STATE HIGHWAY	0.770	4065.60	
WINDHAM COUNTY	WESTMINSTER	NSH-WMSH	WESTMINSTER STATE HIGHWAY	0.145	765.60	BEGINS AT INTERSTATE AND ENDS AT US 5
<b>WESTMINSTER STATE HIGHWAY TOTAL</b>				<b>0.915</b>	<b>4831.2</b>	

WINDSOR COUNTY	HARTFORD	NSH-WSH	WILDER STATE HIGHWAY	0.744	3928.32	BEGINS AT EXT 12 AND ENDS AT CHRISTIAN ST
<b>WILDER STATE HIGHWAY TOTAL</b>				<b>0.744</b>	<b>3928.32</b>	

BENNINGTON COUNTY	WINHALL	NSH-WSH	WINHALL STATE HIGHWAY	0.402	2122.56	BEGINS AT VT 11 AND ENDS AT TOWN BORDER
<b>WINHALL STATE HIGHWAY TOTAL</b>				<b>0.402</b>	<b>2122.56</b>	

RUTLAND COUNTY	RUTLAND CITY	TH-2	US-4	1.250	6600.00	NHS
RUTLAND COUNTY	RUTLAND TOWN	US-4	US-4	1.234	6515.52	NHS
RUTLAND COUNTY	MENDON	US-4	US-4	5.928	31299.84	NHS
RUTLAND COUNTY	KILLINGTON	US-4	US-4	8.495	44853.60	NHS
WINDSOR COUNTY	BRIDGEWATER	US-4	US-4	7.513	39668.64	NHS
WINDSOR COUNTY	WOODSTOCK	US-4	US-4	8.333	43998.24	NHS
WINDSOR COUNTY	WOODSTOCK	TH-1	US-4	1.145	6045.60	NHS
WINDSOR COUNTY	WOODSTOCK	TH-1	TH-1	0.170	897.60	
WINDSOR COUNTY	WOODSTOCK	TH-2	TH-2	0.180	950.40	NHS, DIVIDED
WINDSOR COUNTY	HARTLAND	US-4	US-4	0.773	4081.44	NHS
WINDSOR COUNTY	HARTFORD	US-4	US-4	9.161	48370.08	NHS
WINDSOR COUNTY	HARTFORD	US-4	US-4	0.193	1019.04	
WINDSOR COUNTY	HARTFORD	US-4	US-4	0.192	1013.76	NHS, DIVIDED
WINDSOR COUNTY	HARTFORD	TH-1	US-4	0.237	1251.36	NHS
WINDSOR COUNTY	HARTFORD	US-4	US-4	0.097	512.16	NHS, RAMP
<b>US-4 TOTAL</b>				<b>44.901</b>	<b>237077.28</b>	

NSH = NAMED STATE HIGHWAY

NHS = NATIONAL HIGHWAY SYSTEM.

6 INCH = ROUTES THAT SHOULD BE MARKED AS 6 INCH LINES. THESE ARE ESTIMATED ROUTES. MARKINGS SHALL MATCH EXISTING OR AS DIRECTED BY THE ENGINEER.

NIGHT WORK = AREAS THAT ARE DESIGNATED FOR NIGHT WORK.

DIVIDED = AREAS THAT HAVE DIVIDED SEGMENTS. EACH SEGMENT IS MEASURED IN ONE DIRECTION.

ROUNDABOUT = ROUTES THAT HAVE ROUNDABOUTS.

SEGMENT LENGTH INFORMATION REPRESENTS CENTERLINE MILES. HISTORIC DATA WAS USED TO CORRELATE CENTERLINE MILES OF ROADWAY TO LINEAR FEET OF PAINTED LINE.

PROJECT NAME: STATEWIDE SOUTH REGION  
PROJECT NUMBER: STPG MARK(305)

FILE NAME: +15+046roadl1st.dgn PLOT DATE: 2/19/2016  
PROJECT LEADER: P. COBURN DRAWN BY: K. RECORD  
DESIGNED BY: K. RECORD CHECKED BY: I. DEGUTIS  
ROAD QUANTITY SHEET 1 SHEET 5 OF 11

**SUMMARY BY ROUTE OF STATE HIGHWAYS AND CLASS 1 TOWN HIGHWAYS**

COUNTY	TOWN NAME	ROUTE NAME	HIGHWAY SIGN	SEGMENT LENGTH (MI)	SEGMENT LENGTH (LF)	COMMENTS
WINDHAM COUNTY	GUILFORD	US-5	US-5	6.758	35682.24	
WINDHAM COUNTY	VERNON	US-5	US-5	0.218	1151.04	
WINDHAM COUNTY	BRATTLEBORO	US-5	US-5	3.556	18775.68	ROUNDBABOUT
WINDHAM COUNTY	BRATTLEBORO	TH-1	US-5	1.744	9208.32	
WINDHAM COUNTY	BRATTLEBORO	TH-1	TH-1	0.154	813.12	
WINDHAM COUNTY	BRATTLEBORO	TH-1	TH-1	0.270	1425.60	
WINDHAM COUNTY	BRATTLEBORO	TH-1	TH-1	0.020	105.60	
WINDHAM COUNTY	BRATTLEBORO	TH-1	TH-1	0.020	105.60	DIVIDED ISLAND RAMPS
WINDHAM COUNTY	BRATTLEBORO	TH-1	TH-1	0.025	132.00	
WINDHAM COUNTY	BRATTLEBORO	TH-1	TH-1	0.015	79.20	
WINDHAM COUNTY	BRATTLEBORO	US-5	US-5	0.043	227.04	DIVIDED
WINDHAM COUNTY	BRATTLEBORO	US-5	US-5	0.041	216.48	
WINDHAM COUNTY	DUMMERSTON	US-5	US-5	5.287	27915.36	
WINDHAM COUNTY	PUTNEY	US-5	US-5	5.585	29488.80	
WINDHAM COUNTY	WESTMINSTER	US-5	US-5	8.215	43375.20	
WINDHAM COUNTY	ROCKINGHAM	TH-1	US-5	1.493	7883.04	
WINDHAM COUNTY	ROCKINGHAM	US-5	US-5	7.361	38866.08	
WINDSOR COUNTY	SPRINGFIELD	US-5	US-5	8.772	46316.16	
WINDSOR COUNTY	SPRINGFIELD	US-5	US-5	0.346	1826.88	DIVIDED
WINDSOR COUNTY	SPRINGFIELD	US-5	US-5	0.360	1900.80	
WINDSOR COUNTY	WEATHERSFIELD	US-5	US-5	6.708	35418.24	
WINDSOR COUNTY	WEATHERSFIELD	US-5	US-5	0.061	322.08	DIVIDED
WINDSOR COUNTY	WEATHERSFIELD	US-5	US-5	0.061	322.08	
WINDSOR COUNTY	WINDSOR	US-5	US-5	6.045	31917.60	
WINDSOR COUNTY	WINDSOR	TH-1	US-5	0.800	4224.00	
WINDSOR COUNTY	HARTLAND	US-5	US-5	7.672	40508.16	
WINDSOR COUNTY	HARTFORD	US-5	US-5	5.660	29884.8	
WINDSOR COUNTY	HARTFORD	US-5	US-5	1.956	10327.68	DIVIDED
WINDSOR COUNTY	HARTFORD	US-5	US-5	1.933	10206.24	
WINDSOR COUNTY	NORWICH	US-5	US-5	8.048	42493.44	
WINDSOR COUNTY	NORWICH	US-5	US-5	0.242	1277.76	DIVIDED
WINDSOR COUNTY	NORWICH	US-5	US-5	0.248	1309.44	
<b>US-5 TOTAL</b>				<b>89.717</b>	<b>473705.76</b>	

BENNINGTON COUNTY	POWNAI	US-7	US-7	7.697	40640.16	NHS
BENNINGTON COUNTY	POWNAI	US-7	US-7	0.291	1536.48	NHS, DIVIDED
BENNINGTON COUNTY	POWNAI	US-7	US-7	0.291	1536.48	
BENNINGTON COUNTY	BENNINGTON	US-7	US-7	2.830	14942.40	NHS, 6 INCH
BENNINGTON COUNTY	BENNINGTON	TH-1	US-7	1.633	8622.24	NHS, 6 INCH
BENNINGTON COUNTY	BENNINGTON	US-7	US-7	3.028	15987.84	
BENNINGTON COUNTY	BENNINGTON	US-7	US-7	3.044	16072.32	NHS, 6 INCH, DIVIDED
BENNINGTON COUNTY	BENNINGTON	US-7	US-7	0.345	1821.6	NHS, 6 INCH, EXT 2 NB ON RAMP
BENNINGTON COUNTY	BENNINGTON	US-7	US-7	0.459	2423.52	NHS, 6 INCH, EXT 2 NB OFF RAMP
BENNINGTON COUNTY	BENNINGTON	US-7	US-7	0.389	2053.92	NHS, 6 INCH, EXT 2 SB ON RAMP
BENNINGTON COUNTY	BENNINGTON	US-7	US-7	0.345	1821.6	NHS, 6 INCH, EXT 2 SB OFF RAMP
BENNINGTON COUNTY	BENNINGTON	US-7	US-7	1.022	5396.16	NHS, 6 INCH, FROM VT 279 TO US 7 NB
BENNINGTON COUNTY	BENNINGTON	US-7	US-7	0.089	469.92	NHS, 6 INCH, PARKING LOT TO US 7 NB RAMP
BENNINGTON COUNTY	BENNINGTON	US-7	US-7	0.302	1594.56	NHS, 6 INCH, FROM US 7 SB TO VT 279 EB
BENNINGTON COUNTY	BENNINGTON	US-7	US-7	0.411	2170.08	NHS, 6 INCH, FROM US 7 SB TO PARKING LOT
BENNINGTON COUNTY	SHAFTSBURY	US-7	US-7	5.364	28321.92	NHS, 6 INCH
BENNINGTON COUNTY	GLASTENBURY	US-7	US-7	1.784	9419.52	NHS, 6 INCH

COUNTY	TOWN NAME	ROUTE NAME	HIGHWAY SIGN	SEGMENT LENGTH (MI)	SEGMENT LENGTH (LF)	COMMENTS
BENNINGTON COUNTY	SUNDERLAND	US-7	US-7	6.795	35877.60	NHS, 6 INCH
BENNINGTON COUNTY	SUNDERLAND	US-7	US-7	0.189	997.92	NHS, 6 INCH, NB OFF RAMP
BENNINGTON COUNTY	SUNDERLAND	US-7	US-7	0.201	1061.28	NHS, 6 INCH, NB ON RAMP
BENNINGTON COUNTY	SUNDERLAND	US-7	US-7	0.401	2117.28	NHS, 6 INCH, SB OFF RAMP, END DIVIDED
BENNINGTON COUNTY	SUNDERLAND	US-7	US-7	0.044	232.32	
BENNINGTON COUNTY	SUNDERLAND	US-7	US-7	0.482	2544.96	NHS, 6 INCH, SB ON RAMP, BEGINNING DIVIDED
BENNINGTON COUNTY	SUNDERLAND	US-7	US-7	0.039	205.92	
BENNINGTON COUNTY	MANCHESTER	US-7	US-7	7.246	38258.88	NHS, 6 INCH
BENNINGTON COUNTY	MANCHESTER	US-7	US-7	0.367	1937.76	NHS, 6 INCH, NB OFF RAMP, END DIVIDED
BENNINGTON COUNTY	MANCHESTER	US-7	US-7	0.017	89.76	
BENNINGTON COUNTY	MANCHESTER	US-7	US-7	0.264	1393.92	NHS, 6 INCH, NB ON RAMP, BEGINNING DIVIDED
BENNINGTON COUNTY	MANCHESTER	US-7	US-7	0.036	190.08	
BENNINGTON COUNTY	MANCHESTER	US-7	US-7	0.379	2001.12	NHS, 6 INCH, SB OFF RAMP
BENNINGTON COUNTY	MANCHESTER	US-7	US-7	0.244	1288.32	NHS, 6 INCH, SB ON RAMP
BENNINGTON COUNTY	MANCHESTER	US-7	US-7	0.251	1325.28	NHS, 6 INCH, SB ON RAMP
BENNINGTON COUNTY	DORSET	US-7	US-7	6.718	35471.04	NHS, 6 INCH
RUTLAND COUNTY	MOUNT TABOR	US-7	US-7	4.183	22086.24	NHS
RUTLAND COUNTY	DANBY	US-7	US-7	2.473	13057.44	NHS
RUTLAND COUNTY	WALLINGFORD	US-7	US-7	6.520	34425.60	NHS, 6 INCH
RUTLAND COUNTY	WALLINGFORD	US-7	US-7	0.574	3030.72	
RUTLAND COUNTY	WALLINGFORD	US-7	US-7	0.574	3030.72	NHS, 6 INCH, DIVIDED
RUTLAND COUNTY	CLARENDON	US-7	US-7	5.656	29863.68	NHS, 6 INCH, DIVIDED
RUTLAND COUNTY	CLARENDON	US-7	US-7	5.592	29525.76	
RUTLAND COUNTY	CLARENDON	US-7	US-7	0.114	601.92	NHS, 6 INCH, RAMP
RUTLAND COUNTY	RUTLAND TOWN	US-7	US-7	0.677	3574.56	
RUTLAND COUNTY	RUTLAND TOWN	US-7	US-7	0.677	3574.56	NHS, 6 INCH, DIVIDED
RUTLAND COUNTY	RUTLAND CITY	TH-1	US-7	2.809	14831.52	NHS
RUTLAND COUNTY	RUTLAND TOWN	US-7	US-7	3.284	17339.52	NHS
RUTLAND COUNTY	PITTSFORD	US-7	US-7	7.591	40080.48	NHS
RUTLAND COUNTY	BRANDON	US-7	US-7	6.256	33031.68	NHS
RUTLAND COUNTY	BRANDON	TH-1	US-7	1.090	5755.20	NHS
ADDISON COUNTY	LEICESTER	US-7	US-7	3.425	18084.00	NHS
ADDISON COUNTY	SALISBURY	US-7	US-7	4.503	23775.84	NHS
ADDISON COUNTY	MIDDLEBURY	US-7	US-7	6.032	31848.96	NHS, NIGHT WORK
ADDISON COUNTY	MIDDLEBURY	TH-1	US-7	1.369	7228.32	NHS, NIGHT WORK
ADDISON COUNTY	MIDDLEBURY	TH-1	TH-1	0.080	422.40	
ADDISON COUNTY	MIDDLEBURY	TH-1	TH-1	0.079	417.12	NHS, NIGHT WORK, DIVIDED
ADDISON COUNTY	NEW HAVEN	US-7	US-7	7.690	40603.20	NHS
ADDISON COUNTY	WALTHAM	US-7	US-7	1.630	8606.40	NHS
ADDISON COUNTY	FERRISBURGH	US-7	US-7	7.156	37783.68	NHS
<b>US-7 TOTAL</b>				<b>133.031</b>	<b>702403.68</b>	

RUTLAND COUNTY	RUTLAND TOWN	VT-3	VT-3	0.042	221.76	RAMP
RUTLAND COUNTY	RUTLAND TOWN	VT-3	VT-3	1.695	8949.60	
RUTLAND COUNTY	PROCTOR	VT-3	VT-3	1.804	9525.12	
RUTLAND COUNTY	PROCTOR	TH-1	VT-3	1.479	7809.12	
RUTLAND COUNTY	PITTSFORD	VT-3	VT-3	2.850	15048.00	
RUTLAND COUNTY	PITTSFORD	VT-3	VT-3	0.042	221.76	RAMP
<b>VT-3 TOTAL</b>				<b>7.912</b>	<b>41775.36</b>	

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ROUNDBABOUT = ROUTES THAT HAVE ROUNDBABOUTS.

SEGMENT LENGTH INFORMATION REPRESENTS CENTERLINE MILES. HISTORIC DATA WAS USED TO CORRELATE CENTERLINE MILES OF ROADWAY TO LINEAR FEET OF PAINTED LINE.

PROJECT NAME: STATEWIDE SOUTH REGION  
PROJECT NUMBER: STPG MARK(305)

FILE NAME: +15+046roadl1st.dgn PLOT DATE: 2/19/2016  
PROJECT LEADER: P. COBURN DRAWN BY: K. RECORD  
DESIGNED BY: K. RECORD CHECKED BY: I. DEGUTIS  
ROAD QUANTITY SHEET 2 SHEET 6 OF 11

**SUMMARY BY ROUTE OF STATE HIGHWAYS AND CLASS 1 TOWN HIGHWAYS**

COUNTY	TOWN NAME	ROUTE NAME	HIGHWAY SIGN	SEGMENT LENGTH (MI)	SEGMENT LENGTH (LF)	COMMENTS
RUTLAND COUNTY	FAIR HAVEN	VT-4A	VT-4A	1.719	9076.32	
RUTLAND COUNTY	FAIR HAVEN	TH-1	VT-4A	1.534	8099.52	
RUTLAND COUNTY	CASTLETON	VT-4A	VT-4A	5.841	30840.48	
RUTLAND COUNTY	CASTLETON	TH-1	VT-4A	1.096	5786.88	
RUTLAND COUNTY	IRA	VT-4A	VT-4A	1.301	6869.28	
RUTLAND COUNTY	WEST RUTLAND	VT-4A	VT-4A	1.808	9546.24	
RUTLAND COUNTY	WEST RUTLAND	TH-1	VT-4A	0.875	4620.00	
<b>VT-4A TOTAL</b>				<b>14.174</b>	<b>74838.72</b>	

BENNINGTON COUNTY	BENNINGTON	VT-7A	VT-7A	3.021	15950.88	
BENNINGTON COUNTY	BENNINGTON	VT-7A	VT-7A	0.047	248.16	DIVIDED
BENNINGTON COUNTY	BENNINGTON	VT-7A	VT-7A	0.050	264.00	
BENNINGTON COUNTY	SHAFTSBURY	VT-7A	VT-7A	6.868	36263.04	
BENNINGTON COUNTY	ARLINGTON	VT-7A	VT-7A	6.139	32413.92	
BENNINGTON COUNTY	SUNDERLAND	VT-7A	VT-7A	2.116	11172.48	
BENNINGTON COUNTY	MANCHESTER	VT-7A	VT-7A	3.047	16088.16	
BENNINGTON COUNTY	MANCHESTER	TH-1	VT-7A	5.058	26706.24	ROUNDAABOUT
BENNINGTON COUNTY	DORSET	VT-7A	VT-7A	1.576	8321.28	
BENNINGTON COUNTY	DORSET	VT-7A	VT-7A	0.152	802.56	RAMP
<b>VT-7A TOTAL</b>				<b>28.074</b>	<b>148230.72</b>	

RUTLAND COUNTY	WALLINGFORD	VT-7B	VT-7B	0.774	4086.72	
RUTLAND COUNTY	CLARENDON	VT-7B	VT-7B	0.915	4831.2	
RUTLAND COUNTY	CLARENDON	VT-7B	VT-7B	3.491	18432.48	
<b>VT-7B TOTAL</b>				<b>5.18</b>	<b>27350.4</b>	

BENNINGTON COUNTY	READSBORO	VT-8	VT-8	2.493	13163.04	
BENNINGTON COUNTY	SEARSBURG	VT-8	VT-8	2.695	14229.60	
<b>VT-8 TOTAL</b>				<b>5.188</b>	<b>27392.64</b>	

BENNINGTON COUNTY	BENNINGTON	VT-9	VT-9	4.322	22820.16	NHS
BENNINGTON COUNTY	BENNINGTON	TH-1	VT-9	0.577	3046.56	NHS
BENNINGTON COUNTY	BENNINGTON	TH-2	VT-9	1.970	10401.60	NHS
BENNINGTON COUNTY	WOODFORD	VT-9	VT-9	9.539	50365.92	NHS
BENNINGTON COUNTY	SEARSBURG	VT-9	VT-9	5.525	29172.00	NHS
WINDHAM COUNTY	WILMINGTON	VT-9	VT-9	7.160	37804.80	NHS
WINDHAM COUNTY	MARLBORO	VT-9	VT-9	8.304	43845.12	NHS
WINDHAM COUNTY	BRATTLEBORO	VT-9	VT-9	4.288	22640.64	NHS, ROUNDAABOUT
WINDHAM COUNTY	BRATTLEBORO	TH-2	VT-9	2.764	14593.92	NHS
WINDHAM COUNTY	BRATTLEBORO	VT-9	VT-9	0.113	596.64	NHS, DIVIDED
WINDHAM COUNTY	BRATTLEBORO	VT-9	VT-9	0.117	617.76	
WINDHAM COUNTY	BRATTLEBORO	TH-2	TH-2	0.028	147.84	NHS
<b>VT-9 TOTAL</b>				<b>44.707</b>	<b>236052.96</b>	

WINDSOR COUNTY	CHESTER	VT-10	VT-10	3.540	18691.20	
WINDSOR COUNTY	SPRINGFIELD	VT-10	VT-10	0.833	4398.24	
<b>VT-10 TOTAL</b>				<b>4.373</b>	<b>23089.44</b>	

WINDSOR COUNTY	NORWICH	VT-10A	VT-10A	0.522	2756.16	DIVIDED
WINDSOR COUNTY	NORWICH	VT-10A	VT-10A	0.522	2756.16	
<b>VT-10A TOTAL</b>				<b>1.044</b>	<b>5512.32</b>	

COUNTY	TOWN NAME	ROUTE NAME	HIGHWAY SIGN	SEGMENT LENGTH (MI)	SEGMENT LENGTH (LF)	COMMENTS
BENNINGTON COUNTY	MANCHESTER	TH-3	VT-11	1.259	6647.52	
BENNINGTON COUNTY	MANCHESTER	VT-11	VT-11	1.991	10512.48	
BENNINGTON COUNTY	WINHALL	VT-11	VT-11	4.135	21832.80	
BENNINGTON COUNTY	PERU	VT-11	VT-11	4.627	24430.56	
BENNINGTON COUNTY	LANDGROVE	VT-11	VT-11	0.821	4334.88	
WINDHAM COUNTY	LONDONDERRY	VT-11	VT-11	7.556	39895.68	
WINDHAM COUNTY	WINDHAM	VT-11	VT-11	0.356	1879.68	
WINDSOR COUNTY	ANDOVER	VT-11	VT-11	3.678	19419.84	
WINDSOR COUNTY	CHESTER	VT-11	VT-11	7.504	39621.12	
WINDSOR COUNTY	CHESTER	TH-2	VT-11	0.833	4398.24	
WINDSOR COUNTY	SPRINGFIELD	VT-11	VT-11	5.382	28416.96	
WINDSOR COUNTY	SPRINGFIELD	TH-1	VT-11	2.724	14382.72	
WINDSOR COUNTY	SPRINGFIELD	TH-1	TH-1	0.097	512.16	RAMPS
WINDSOR COUNTY	SPRINGFIELD	TH-1	TH-1	0.022	116.16	
WINDSOR COUNTY	SPRINGFIELD	TH-1	TH-1	0.062	327.36	
WINDSOR COUNTY	SPRINGFIELD	TH-1	TH-1	0.025	132.00	
<b>VT-11 TOTAL</b>				<b>41.072</b>	<b>216860.16</b>	

WINDSOR COUNTY	WEATHERSFIELD	VT-12	VT-12	0.394	2080.32	
WINDSOR COUNTY	WEATHERSFIELD	VT-12	VT-12	0.044	232.32	DIVIDED
WINDSOR COUNTY	WEATHERSFIELD	VT-12	VT-12	0.027	142.56	
WINDSOR COUNTY	HARTLAND	VT-12	VT-12	0.042	221.76	RAMP
WINDSOR COUNTY	HARTLAND	VT-12	VT-12	7.705	40682.40	
WINDSOR COUNTY	WOODSTOCK	TH-3	VT-12	0.710	3748.80	
WINDSOR COUNTY	WOODSTOCK	VT-12	VT-12	3.298	17413.44	
WINDSOR COUNTY	POMFRET	VT-12	VT-12	1.383	7302.24	
WINDSOR COUNTY	BARNARD	VT-12	VT-12	9.615	50767.20	
WINDSOR COUNTY	BETHEL	TH-1	VT-12	0.892	4709.76	
WINDSOR COUNTY	BETHEL	VT-12	VT-12	6.127	32350.56	
<b>VT-12 TOTAL</b>				<b>30.237</b>	<b>159651.36</b>	

ADDISON COUNTY	GRANVILLE	VT-12A	VT-12A	1.687	8907.36	
<b>VT-12A TOTAL</b>				<b>1.687</b>	<b>8907.36</b>	

WINDSOR COUNTY	HARTFORD	TH-1	VT-14	1.477	7798.56	
WINDSOR COUNTY	HARTFORD	VT-14	VT-14	6.379	33681.12	
WINDSOR COUNTY	SHARON	VT-14	VT-14	7.541	39816.48	
WINDSOR COUNTY	ROYALTON	VT-14	VT-14	9.106	48079.68	
WINDSOR COUNTY	BETHEL	VT-14	VT-14	0.890	4699.20	
<b>VT-14 TOTAL</b>				<b>25.393</b>	<b>134075.04</b>	

ADDISON COUNTY	ADDISON	VT-17	VT-17	11.133	58782.24	
ADDISON COUNTY	WEYBRIDGE	VT-17	VT-17	0.221	1166.88	
ADDISON COUNTY	NEW HAVEN	VT-17	VT-17	7.196	37994.88	
ADDISON COUNTY	WALTHAM	VT-17	VT-17	0.926	4889.28	
ADDISON COUNTY	BRISTOL	VT-17	VT-17	2.313	12212.64	
ADDISON COUNTY	STARKSBORO	VT-17	VT-17	5.409	28559.52	
<b>VT-17 TOTAL</b>				<b>27.198</b>	<b>143605.44</b>	

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ROUNDAABOUT = ROUTES THAT HAVE ROUNDAABOUTS.

SEGMENT LENGTH INFORMATION REPRESENTS CENTERLINE MILES. HISTORIC DATA WAS USED TO CORRELATE CENTERLINE MILES OF ROADWAY TO LINEAR FEET OF PAINTED LINE.

PROJECT NAME: STATEWIDE SOUTH REGION  
PROJECT NUMBER: STPG MARK(305)

FILE NAME: +15+046roadl1st.dgn PLOT DATE: 2/19/2016  
PROJECT LEADER: P. COBURN DRAWN BY: K. RECORD  
DESIGNED BY: K. RECORD CHECKED BY: I. DEGUTIS  
ROAD QUANTITY SHEET 3 SHEET 7 OF 11

**SUMMARY BY ROUTE OF STATE HIGHWAYS AND CLASS 1 TOWN HIGHWAYS**

COUNTY	TOWN NAME	ROUTE NAME	HIGHWAY SIGN	SEGMENT LENGTH (MI)	SEGMENT LENGTH (LF)	COMMENTS
RUTLAND COUNTY	FAIR HAVEN	VT-22A	VT-22A	2.962	15639.36	NIGHT WORK
RUTLAND COUNTY	FAIR HAVEN	TH-2	VT-22A	0.437	2307.36	NIGHT WORK
RUTLAND COUNTY	FAIR HAVEN	TH-3	VT-22A	0.071	374.88	NIGHT WORK , RAMP
RUTLAND COUNTY	FAIR HAVEN	TH-3	VT-22A	0.709	3743.52	NIGHT WORK
RUTLAND COUNTY	FAIR HAVEN	VT-22A	VT-22A	0.322	1700.16	
RUTLAND COUNTY	FAIR HAVEN	VT-22A	VT-22A	0.334	1763.52	NIGHT WORK, DIVIDED
RUTLAND COUNTY	WEST HAVEN	VT-22A	VT-22A	3.007	15876.96	NIGHT WORK
RUTLAND COUNTY	BENSON	VT-22A	VT-22A	6.276	33137.28	NIGHT WORK
ADDISON COUNTY	ORWELL	VT-22A	VT-22A	6.429	33945.12	NIGHT WORK
ADDISON COUNTY	SHOREHAM	VT-22A	VT-22A	6.384	33707.52	NIGHT WORK
ADDISON COUNTY	BRIDPORT	VT-22A	VT-22A	6.301	33269.28	NIGHT WORK
ADDISON COUNTY	ADDISON	VT-22A	VT-22A	6.315	33343.20	NIGHT WORK
ADDISON COUNTY	PANTON	VT-22A	VT-22A	2.755	14546.40	NIGHT WORK
ADDISON COUNTY	VERGENNES	TH-1	VT-22A	0.956	5047.68	NIGHT WORK
ADDISON COUNTY	VERGENNES	TH-2	VT-22A	1.232	6504.96	NIGHT WORK
ADDISON COUNTY	FERRISBURGH	VT-22A	VT-22A	0.313	1652.64	NIGHT WORK
ADDISON COUNTY	FERRISBURGH	VT-22A	VT-22A	0.049	258.72	NIGHT WORK, RAMP
<b>VT-22A TOTAL</b>				<b>44.852</b>	<b>236818.56</b>	

WINDHAM COUNTY	BRATTLEBORO	TH-3	VT-30	0.326	1721.28	
WINDHAM COUNTY	BRATTLEBORO	VT-30	VT-30	3.187	16827.36	
WINDHAM COUNTY	DUMMERSTON	VT-30	VT-30	5.097	26912.16	
WINDHAM COUNTY	NEWFANE	VT-30	VT-30	5.662	29895.36	
WINDHAM COUNTY	TOWNSHEND	VT-30	VT-30	7.357	38844.96	
WINDHAM COUNTY	JAMAICA	VT-30	VT-30	10.119	53428.32	
BENNINGTON COUNTY	WINHALL	VT-30	VT-30	7.659	40439.52	
BENNINGTON COUNTY	WINHALL	VT-30	VT-30	0.093	491.04	RAMP
BENNINGTON COUNTY	MANCHESTER	TH-2	VT-30	0.305	1610.40	
BENNINGTON COUNTY	MANCHESTER	VT-30	VT-30	2.480	13094.40	
BENNINGTON COUNTY	DORSET	VT-30	VT-30	5.225	27588.00	
BENNINGTON COUNTY	RUPERT	VT-30	VT-30	3.828	20211.84	
RUTLAND COUNTY	PAWLET	VT-30	VT-30	8.260	43612.80	
RUTLAND COUNTY	WELLS	VT-30	VT-30	5.093	26891.04	
RUTLAND COUNTY	POULTNEY	TH-1	VT-30	0.692	3653.76	
RUTLAND COUNTY	POULTNEY	VT-30	VT-30	8.845	46701.60	
RUTLAND COUNTY	CASTLETON	VT-30	VT-30	6.566	34668.48	
RUTLAND COUNTY	HUBBARDTON	VT-30	VT-30	5.155	27218.40	
RUTLAND COUNTY	SUDBURY	VT-30	VT-30	6.335	33448.80	
ADDISON COUNTY	WHITING	VT-30	VT-30	4.944	26104.32	
ADDISON COUNTY	CORNWALL	VT-30	VT-30	6.359	33575.52	
ADDISON COUNTY	MIDDLEBURY	VT-30	VT-30	0.550	2904.00	NIGHT WORK
ADDISON COUNTY	MIDDLEBURY	TH-2	VT-30	1.326	7001.28	NIGHT WORK, ROUNDABOUT
<b>VT-30 TOTAL</b>				<b>105.463</b>	<b>556844.64</b>	

RUTLAND COUNTY	WELLS	VT-31	VT-31	1.756	9271.68	
RUTLAND COUNTY	POULTNEY	VT-31	VT-31	3.201	16901.28	
RUTLAND COUNTY	POULTNEY	TH-1	VT-31	0.369	1948.32	
RUTLAND COUNTY	POULTNEY	TH-2	VT-31	0.209	1103.52	
<b>VT-31 TOTAL</b>				<b>5.535</b>	<b>29224.80</b>	

WINDSOR COUNTY	READING	VT-44	VT-44	0.202	1066.56	
WINDSOR COUNTY	WEST WINDSOR	VT-44	VT-44	5.044	26632.32	
WINDSOR COUNTY	WINDSOR	VT-44	VT-44	1.607	8484.96	
WINDSOR COUNTY	WINDSOR	TH-2	VT-44	3.335	17608.80	
<b>VT-44 TOTAL</b>				<b>10.188</b>	<b>53792.64</b>	

WINDSOR COUNTY	WEATHERSFIELD	VT-44A	VT-44A	0.501	2645.28	
WINDSOR COUNTY	WINDSOR	VT-44A	VT-44A	2.493	13163.04	
<b>VT-44A TOTAL</b>				<b>2.994</b>	<b>15808.32</b>	

COUNTY	TOWN NAME	ROUTE NAME	HIGHWAY SIGN	SEGMENT LENGTH (MI)	SEGMENT LENGTH (LF)	COMMENTS
BENNINGTON COUNTY	SHAFTSBURY	VT-67	VT-67	3.590	18955.20	
BENNINGTON COUNTY	BENNINGTON	VT-67	VT-67	0.188	992.64	
BENNINGTON COUNTY	BENNINGTON	TH-1	VT-67	0.476	2513.28	
<b>VT-67 TOTAL</b>				<b>4.254</b>	<b>22461.12</b>	

BENNINGTON COUNTY	BENNINGTON	VT-67A	VT-67A	0.760	4012.80	DIVIDED
BENNINGTON COUNTY	BENNINGTON	VT-67A	VT-67A	0.760	4012.80	
BENNINGTON COUNTY	BENNINGTON	VT-67A	VT-67A	1.397	7376.16	
BENNINGTON COUNTY	BENNINGTON	TH-2	VT-67A	1.191	6288.48	
<b>VT-67A TOTAL</b>				<b>4.108</b>	<b>21690.24</b>	

ADDISON COUNTY	ORWELL	VT-73	VT-73	4.986	26326.08	
RUTLAND COUNTY	SUDBURY	VT-73	VT-73	3.172	16748.16	
RUTLAND COUNTY	BRANDON	TH-2	VT-73	0.602	3178.56	
RUTLAND COUNTY	BRANDON	TH-3	VT-73	0.233	1230.24	
RUTLAND COUNTY	BRANDON	VT-73	VT-73	6.654	35133.12	
ADDISON COUNTY	GOSHEN	VT-73	VT-73	3.610	19060.80	
WINDSOR COUNTY	ROCHESTER	VT-73	VT-73	8.782	46368.96	
RUTLAND COUNTY	CHITTENDEN	VT-73	VT-73	0.142	749.76	
<b>VT-73 TOTAL</b>				<b>28.181</b>	<b>148795.68</b>	

ADDISON COUNTY	SHOREHAM	VT-74	VT-74	9.935	52456.80	
ADDISON COUNTY	CORNWALL	VT-74	VT-74	2.882	15216.96	
<b>VT-74 TOTAL</b>				<b>12.817</b>	<b>67673.76</b>	

BENNINGTON COUNTY	STAMFORD	VT-100	VT-100	5.752	30370.56	
BENNINGTON COUNTY	READSBORO	VT-100	VT-100	7.509	39647.52	
BENNINGTON COUNTY	READSBORO	TH-1	VT-100	0.529	2793.12	
WINDHAM COUNTY	WHITINGHAM	VT-100	VT-100	10.73	56654.40	
WINDHAM COUNTY	WILMINGTON	VT-100	VT-100	7.302	38554.56	
WINDHAM COUNTY	DOVER	VT-100	VT-100	5.547	29288.16	
WINDHAM COUNTY	STRATTON	VT-100	VT-100	1.337	7059.36	
WINDHAM COUNTY	WARDSBORO	VT-100	VT-100	7.373	38929.44	
WINDHAM COUNTY	JAMAICA	VT-100	VT-100	4.556	24055.68	
WINDHAM COUNTY	LONDONDERRY	VT-100	VT-100	7.646	40370.88	
WINDSOR COUNTY	WESTON	VT-100	VT-100	8.399	44346.72	
WINDSOR COUNTY	ANDOVER	VT-100	VT-100	0.208	1098.24	
WINDSOR COUNTY	LUDLOW	VT-100	VT-100	7.748	40909.44	
WINDSOR COUNTY	LUDLOW	TH-2	VT-100	0.722	3812.16	
WINDSOR COUNTY	PLYMOUTH	VT-100	VT-100	9.726	51353.28	
WINDSOR COUNTY	BRIDGEWATER	VT-100	VT-100	0.967	5105.76	
RUTLAND COUNTY	KILLINGTON	VT-100	VT-100	0.115	607.20	RAMP
RUTLAND COUNTY	KILLINGTON	VT-100	VT-100	3.969	20956.32	
RUTLAND COUNTY	PITTSFIELD	VT-100	VT-100	4.873	25729.44	
WINDSOR COUNTY	STOCKBRIDGE	VT-100	VT-100	5.093	26891.04	
WINDSOR COUNTY	ROCHESTER	VT-100	VT-100	8.353	44103.84	
ADDISON COUNTY	HANCOCK	VT-100	VT-100	2.511	13258.08	
ADDISON COUNTY	GRANVILLE	VT-100	VT-100	9.560	50476.80	
<b>VT-100 TOTAL</b>				<b>120.525</b>	<b>636372.00</b>	

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DIVIDED = AREAS THAT HAVE DIVIDED SEGMENTS. EACH SEGMENT IS MEASURED IN ONE DIRECTION.

ROUNDABOUT = ROUTES THAT HAVE ROUNDABOUTS.

SEGMENT LENGTH INFORMATION REPRESENTS CENTERLINE MILES. HISTORIC DATA WAS USED TO CORRELATE CENTERLINE MILES OF ROADWAY TO LINEAR FEET OF PAINTED LINE.

PROJECT NAME: STATEWIDE SOUTH REGION  
PROJECT NUMBER: STPG MARK(305)

FILE NAME: +15+046roadl1st.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: K. RECORD  
ROAD QUANTITY SHEET 4

PLOT DATE: 2/19/2016  
DRAWN BY: K. RECORD  
CHECKED BY: I. DEGUTIS  
SHEET 8 OF 11

**SUMMARY BY ROUTE OF STATE HIGHWAYS AND CLASS 1 TOWN HIGHWAYS**

COUNTY	TOWN NAME	ROUTE NAME	HIGHWAY SIGN	SEGMENT LENGTH (MI)	SEGMENT LENGTH (LF)	COMMENTS
WINDSOR COUNTY	PLYMOUTH	VT-100A	VT-100A	4.762	25143.36	
WINDSOR COUNTY	BRIDGEWATER	VT-100A	VT-100A	2.209	11663.52	
<b>VT-100A TOTAL</b>				<b>6.971</b>	<b>36806.88</b>	

RUTLAND COUNTY	CLARENDON	VT-103	VT-103	0.127	670.56	NHS, RAMP
RUTLAND COUNTY	CLARENDON	VT-103	VT-103	1.979	10449.12	NHS
RUTLAND COUNTY	SHREWSBURY	VT-103	VT-103	4.236	22366.08	NHS
RUTLAND COUNTY	WALLINGFORD	VT-103	VT-103	2.132	11256.96	NHS
RUTLAND COUNTY	MOUNT HOLLY	VT-103	VT-103	7.683	40566.24	NHS
WINDSOR COUNTY	LUDLOW	VT-103	VT-103	3.872	20444.16	NHS
WINDSOR COUNTY	LUDLOW	VT-103	VT-103	0.337	1779.36	
WINDSOR COUNTY	LUDLOW	VT-103	VT-103	0.337	1779.36	NHS, DIVIDED
WINDSOR COUNTY	LUDLOW	TH-1	VT-103	1.573	8305.44	NHS
WINDSOR COUNTY	CAVENDISH	VT-103	VT-103	3.741	19752.48	NHS
WINDSOR COUNTY	CHESTER	TH-1	VT-103	1.667	8801.76	NHS
WINDSOR COUNTY	CHESTER	VT-103	VT-103	8.063	42572.64	NHS
WINDHAM COUNTY	ROCKINGHAM	VT-103	VT-103	6.753	35655.84	NHS
<b>VT-103 TOTAL</b>				<b>42.500</b>	<b>224400.00</b>	

WINDSOR COUNTY	SPRINGFIELD	TH-2	VT-106	0.058	306.24	
WINDSOR COUNTY	SPRINGFIELD	VT-106	VT-106	3.740	19747.20	
WINDSOR COUNTY	SPRINGFIELD	VT-106	VT-106	0.096	506.88	
WINDSOR COUNTY	SPRINGFIELD	VT-106	VT-106	0.057	300.96	RAMPS
WINDSOR COUNTY	WEATHERSFIELD	VT-106	VT-106	7.226	38153.28	
WINDSOR COUNTY	CAVENDISH	VT-106	VT-106	0.429	2265.12	
WINDSOR COUNTY	READING	VT-106	VT-106	7.277	38422.56	
WINDSOR COUNTY	WOODSTOCK	VT-106	VT-106	6.553	34599.84	
WINDSOR COUNTY	WOODSTOCK	TH-4	VT-106	0.680	3590.40	
<b>VT-106 TOTAL</b>				<b>26.116</b>	<b>137892.48</b>	

WINDSOR COUNTY	STOCKBRIDGE	VT-107	VT-107	6.700	35376.00	
WINDSOR COUNTY	BETHEL	VT-107	VT-107	4.273	22561.44	
WINDSOR COUNTY	BETHEL	VT-107	VT-107	0.071	374.88	RAMP
WINDSOR COUNTY	ROYALTON	VT-107	VT-107	1.962	10359.36	
WINDSOR COUNTY	ROYALTON	VT-107	VT-107	0.568	2999.04	
WINDSOR COUNTY	ROYALTON	VT-107	VT-107	0.568	2999.04	DIVIDED
<b>VT-107 TOTAL</b>				<b>14.142</b>	<b>74669.76</b>	

WINDSOR COUNTY	ROYALTON	VT-110	VT-110	2.320	12249.60	
<b>VT-110 TOTAL</b>				<b>2.320</b>	<b>12249.60</b>	

WINDHAM COUNTY	HALIFAX	VT-112	VT-112	5.846	30866.88	
WINDHAM COUNTY	WHITINGHAM	VT-112	VT-112	1.604	8469.12	
<b>VT-112 TOTAL</b>				<b>7.450</b>	<b>39336.00</b>	

ADDISON COUNTY	MIDDLEBURY	VT-116	VT-116	0.172	908.16	RAMP
ADDISON COUNTY	MIDDLEBURY	VT-116	VT-116	6.587	34779.36	
ADDISON COUNTY	BRISTOL	VT-116	VT-116	11.04	58291.20	
ADDISON COUNTY	BRISTOL	TH-1	VT-116	1.225	6468.00	
ADDISON COUNTY	STARKSBORO	VT-116	VT-116	6.670	35217.60	
<b>VT-116 TOTAL</b>				<b>25.694</b>	<b>135664.32</b>	

WINDHAM COUNTY	WESTMINSTER	VT-123	VT-123	0.313	1652.64	
WINDHAM COUNTY	WESTMINSTER	VT-123	VT-123	0.051	269.28	RAMP
<b>VT-123 TOTAL</b>				<b>0.364</b>	<b>1921.92</b>	

COUNTY	TOWN NAME	ROUTE NAME	HIGHWAY SIGN	SEGMENT LENGTH (MI)	SEGMENT LENGTH (LF)	COMMENTS
ADDISON COUNTY	ADDISON	VT-125	VT-125	1.854	9789.12	
ADDISON COUNTY	BRIDPORT	VT-125	VT-125	8.189	43237.92	
ADDISON COUNTY	CORNWALL	VT-125	VT-125	4.265	22519.20	
ADDISON COUNTY	MIDDLEBURY	VT-125	VT-125	3.427	18094.56	NIGHT WORK
ADDISON COUNTY	MIDDLEBURY	TH-3	VT-125	0.646	3410.88	NIGHT WORK, ROUNDABOUT
ADDISON COUNTY	MIDDLEBURY	TH-4	VT-125	0.065	343.20	NIGHT WORK
ADDISON COUNTY	MIDDLEBURY	TH-5	VT-125	0.314	1657.92	NIGHT WORK, ROUNDABOUT
ADDISON COUNTY	RIPTON	VT-125	VT-125	5.786	30550.08	
ADDISON COUNTY	HANCOCK	VT-125	VT-125	7.224	38142.72	
<b>VT-125 TOTAL</b>				<b>31.770</b>	<b>167745.60</b>	

WINDSOR COUNTY	CAVENDISH	VT-131	VT-131	7.629	40281.12	
WINDSOR COUNTY	WEATHERSFIELD	VT-131	VT-131	8.564	45217.92	
WINDSOR COUNTY	WEATHERSFIELD	VT-131	VT-131	0.083	438.24	
WINDSOR COUNTY	WEATHERSFIELD	VT-131	VT-131	0.083	438.24	DIVIDED
WINDSOR COUNTY	WEATHERSFIELD	VT-131	VT-131	0.042	221.76	RAMP
<b>VT-131 TOTAL</b>				<b>16.401</b>	<b>86597.28</b>	

WINDSOR COUNTY	SHARON	VT-132	VT-132	0.227	1198.56	
<b>VT-132 TOTAL</b>				<b>0.227</b>	<b>1198.56</b>	

RUTLAND COUNTY	PAWLET	VT-133	VT-133	5.325	28116.00	
RUTLAND COUNTY	DANBY	VT-133	VT-133	0.024	126.72	
RUTLAND COUNTY	TINMOUTH	VT-133	VT-133	3.431	18115.68	
RUTLAND COUNTY	MIDDLETOWN SPRINGS	VT-133	VT-133	5.760	30412.80	
RUTLAND COUNTY	IRA	VT-133	VT-133	4.780	25238.40	
RUTLAND COUNTY	CLARENDON	VT-133	VT-133	1.434	7571.52	
RUTLAND COUNTY	WEST RUTLAND	VT-133	VT-133	0.710	3748.80	
RUTLAND COUNTY	WEST RUTLAND	TH-2	VT-133	1.012	5343.36	
<b>VT-133 TOTAL</b>				<b>22.476</b>	<b>118673.28</b>	

RUTLAND COUNTY	WALLINGFORD	VT-140	VT-140	6.343	33491.04	
RUTLAND COUNTY	MOUNT HOLLY	VT-140	VT-140	0.152	802.56	
<b>VT-140 TOTAL</b>				<b>6.495</b>	<b>34293.6</b>	

WINDHAM COUNTY	VERNON	VT-142	VT-142	8.647	45656.16	
WINDHAM COUNTY	BRATTLEBORO	VT-142	VT-142	1.098	5797.44	
WINDHAM COUNTY	BRATTLEBORO	TH-4	VT-142	1.069	5644.32	
<b>VT-142 TOTAL</b>				<b>10.814</b>	<b>57097.92</b>	

RUTLAND COUNTY	PAWLET	VT-149	VT-149	1.302	6874.56	
<b>VT-149 TOTAL</b>				<b>1.302</b>	<b>6874.56</b>	

WINDSOR COUNTY	WESTON	VT-155	VT-155	2.275	12012.00	
RUTLAND COUNTY	MOUNT HOLLY	VT-155	VT-155	7.603	40143.84	
RUTLAND COUNTY	WALLINGFORD	VT-155	VT-155	0.412	2175.36	
<b>VT-155 TOTAL</b>				<b>10.290</b>	<b>54331.20</b>	

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PROJECT NAME: STATEWIDE SOUTH REGION  
PROJECT NUMBER: STPG MARK(305)

FILE NAME: +15+046roadl1st.dgn PLOT DATE: 2/19/2016  
PROJECT LEADER: P. COBURN DRAWN BY: K. RECORD  
DESIGNED BY: K. RECORD CHECKED BY: I. DEGUTIS  
ROAD QUANTITY SHEET 5 SHEET 9 OF 11

**SUMMARY BY ROUTE OF STATE HIGHWAYS AND CLASS 1 TOWN HIGHWAYS**

COUNTY	TOWN NAME	ROUTE NAME	HIGHWAY SIGN	SEGMENT LENGTH (MI)	SEGMENT LENGTH (LF)	COMMENTS
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	4.509	23807.52	
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	1.545	8157.60	DIVIDED
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	1.705	9002.40	
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.215	1135.20	WB ON RAMP FROM VT 67A
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.301	1589.28	WB OFF RAMP TO VT 67A
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.306	1615.68	EB OFF RAMP TO VT 67A
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.336	1774.08	EB ON RAMP FROM VT 67A
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.279	1473.12	FROM US 7 NB TO VT 279 EB
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.215	1135.20	FROM PARKING LOT TO VT 279 WB
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.225	1188.00	FROM PARKING LOT TO VT 279 EB
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	1.148	6061.44	FROM VT 279 WB TO US 7 SB
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.098	517.44	FROM VT 279 WB TO PARKING LOT
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.081	427.68	FROM VT 279 EB TO PARKING LOT
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.081	427.68	FROM PARKING LOT TO VT 289 WB EXT TO US 7 SOUTH
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.836	4414.08	PERIMETER ROAD
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.444	2344.32	EXT TO VT 9
BENNINGTON COUNTY	BENNINGTON	VT-279	VT-279	0.477	2518.56	ENTRANCE FROM VT 9
<b>VT-279 TOTAL</b>				<b>12.801</b>	<b>67589.28</b>	ENTIRE ROUTE IS NHS, 6 INCH
BENNINGTON COUNTY	SUNDERLAND	VT-313	VT-313	0.717	3785.76	
<b>VT-313 TOTAL</b>				<b>0.717</b>	<b>3785.76</b>	
BENNINGTON COUNTY	POWNAL	VT-346	VT-346	4.628	24435.84	
<b>VT-346 TOTAL</b>				<b>4.628</b>	<b>24435.84</b>	

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PROJECT NAME:	STATEWIDE SOUTH REGION
PROJECT NUMBER:	STPG MARK(305)
FILE NAME: +15+046roadlst.dgn	PLOT DATE: 2/19/2016
PROJECT LEADER: P. COBURN	DRAWN BY: K. RECORD
DESIGNED BY: K. RECORD	CHECKED BY: I. DEGUTIS
ROAD QUANTITY SHEET 6	SHEET 10 OF 11

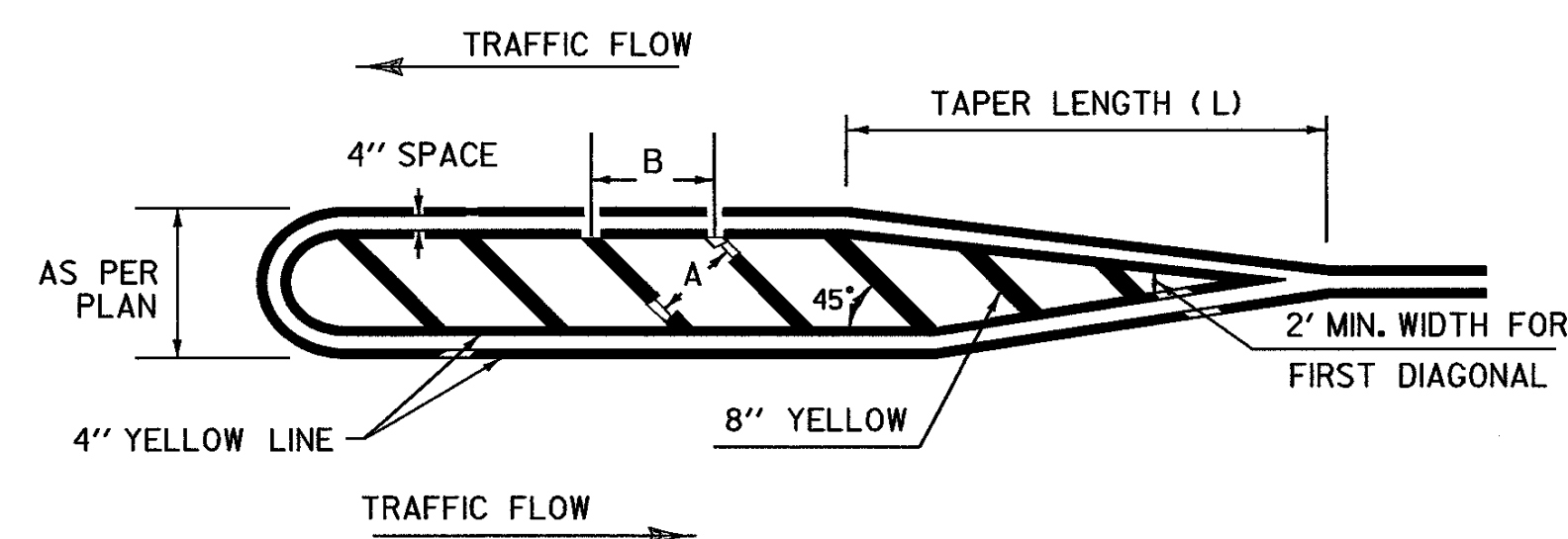
**SUMMARY BY ROUTE OF STATE HIGHWAYS AND CLASS 1 TOWN HIGHWAYS**

ROUTE	LENGTH (MI)
BR US- BR4	5.320
BRATTLEBORO STATE HIGHWAY	0.270
BENNINGTON STATE HIGHWAY	0.472
CASTLETON STATE HIGHWAY	0.398
CLARENDON STATE HIGHWAY	0.914
FAIR HAVEN STATE HIGHWAY	0.621
FERRISBURGH STATE HIGHWAY	0.799
NORWICH STATE HIGHWAY	1.168
PUTNEY STATE HIGHWAY	0.362
QUECHEE STATE HIGHWAY	0.246
WESTMINSTER STATE HIGHWAY	0.915
WILDER STATE HIGHWAY	0.744
WINHALL STATE HIGHWAY	0.402
US-4	44.901
US-5	89.717
US-7	133.031
VT-3	7.912
VT-4A	14.174
VT-7A	28.074
VT-7B	5.180
VT-8	5.188
VT-9	44.707
VT-10	4.373
VT-10A	1.044
VT-11	41.072
<b>SUB-TOTAL</b>	<b>432.004</b>

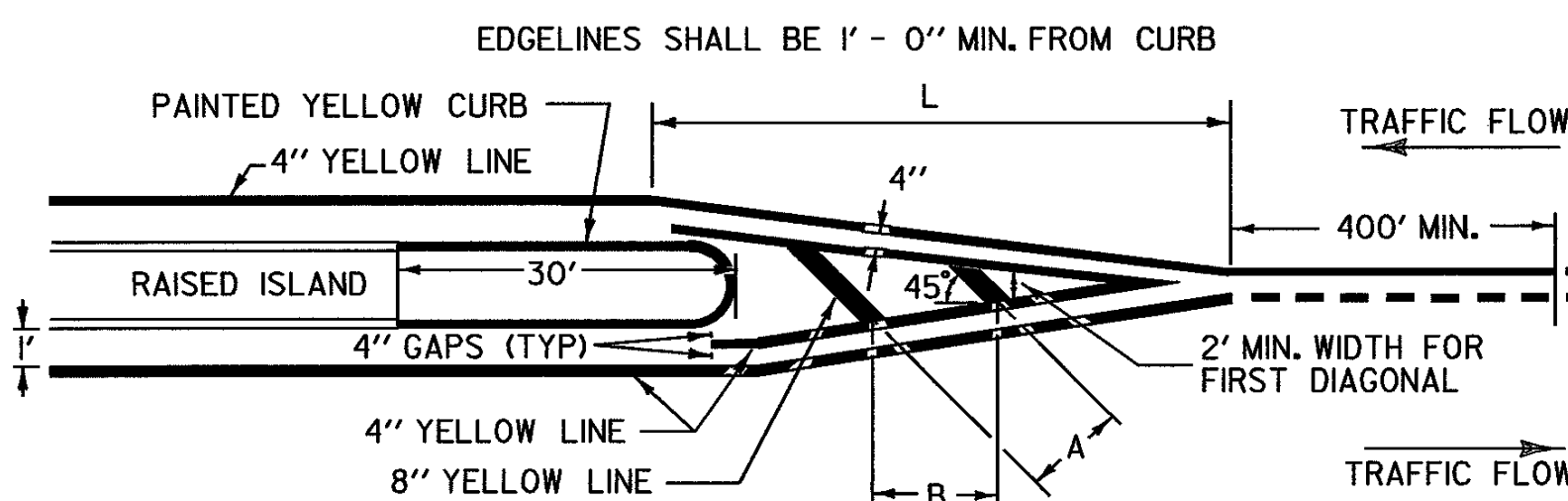
ROUTE	LENGTH (MI)
VT-12	30.237
VT-12A	1.687
VT-14	25.393
VT-17	27.198
VT-22A	44.852
VT-30	105.463
VT-31	5.535
VT-44	10.188
VT-44A	2.994
VT-67	4.254
VT-67A	4.108
VT-73	28.181
VT-74	12.817
VT-100	120.525
VT-100A	6.971
VT-103	42.500
VT-106	26.116
VT-107	14.142
VT-110	2.320
VT-112	7.450
VT-116	25.694
VT-123	0.364
VT-125	31.770
VT-131	16.401
VT-132	0.227
VT-133	22.476
VT-140	6.495
VT-142	10.814
VT-149	1.302
VT-155	10.290
VT-279	12.801
VT-313	0.717
VT-346	4.628
<b>SUB-TOTAL</b>	<b>666.910</b>
<b>SOUTH TOTAL</b>	<b>1098.914</b>

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PROJECT NAME:	STATEWIDE SOUTH REGION
PROJECT NUMBER:	STPG MARK(305)
FILE NAME: +15+046roadl1st.dgn	PLOT DATE: 2/22/2016
PROJECT LEADER: P. COBURN	DRAWN BY: K. RECORD
DESIGNED BY: K. RECORD	CHECKED BY: I. DEGUTIS
ROAD SUMMARY SHEET	SHEET II OF II



**PAINTED ISLAND DETAIL**



**ISLAND APPROACH MARKINGS**

DIMENSIONS		CONDITIONS FOR USE	
A	B		
5'	7'	LOW SPEED OR HIGH SPEED/W POOR SIGHT DISTANCE, <200'	WHERE LENGTH OF DIAGONAL AREA IS 75' MAX.
10'	14'	HIGH SPEED AND GOOD SIGHT DISTANCE, ≥200'	WHERE LENGTH OF DIAGONAL AREA EXCEEDS 75'

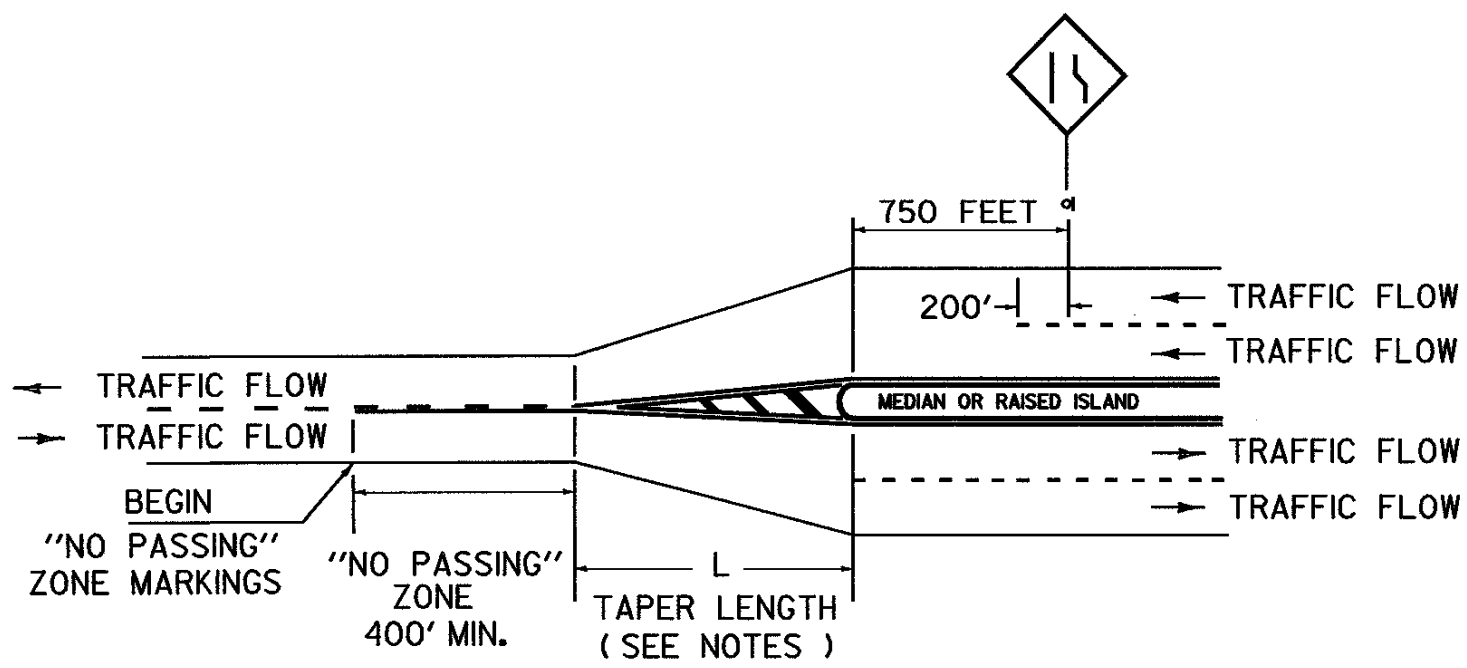
**TAPER LENGTH NOTES**

- FOR DESIGN OF LEFT OR RIGHT TURN LANES REFER TO VTRANS \*GUIDELINE FOR DETERMINING STORAGE, TAPER AND DECELERATION LENGTHS FOR LEFT AND RIGHT-TURN LANES AT INTERSECTIONS\*
- MINIMUM LENGTH OF TAPER = ( L )  
 $L = 100 \text{ FEET } \leq 30 \text{ mph}$   
 $L = 180 \text{ FEET } > 30 \text{ mph}$
- THE ENTIRE TAPER LENGTH MAY BE USED FOR DECELERATION.

**NOTE:**

A SOLID LINE IN THE DIRECTION OF TRAVEL IS BEGUN AT A LOCATION 400 FEET MIN. IN ADVANCE OF THE BEGIN TAPER FOR THE PAVEMENT WIDTH TRANSITION.

PASSING ZONE SHOWN FOR REFERENCE ONLY, ACTUAL MARKINGS BASED ON FIELD CONDITIONS.



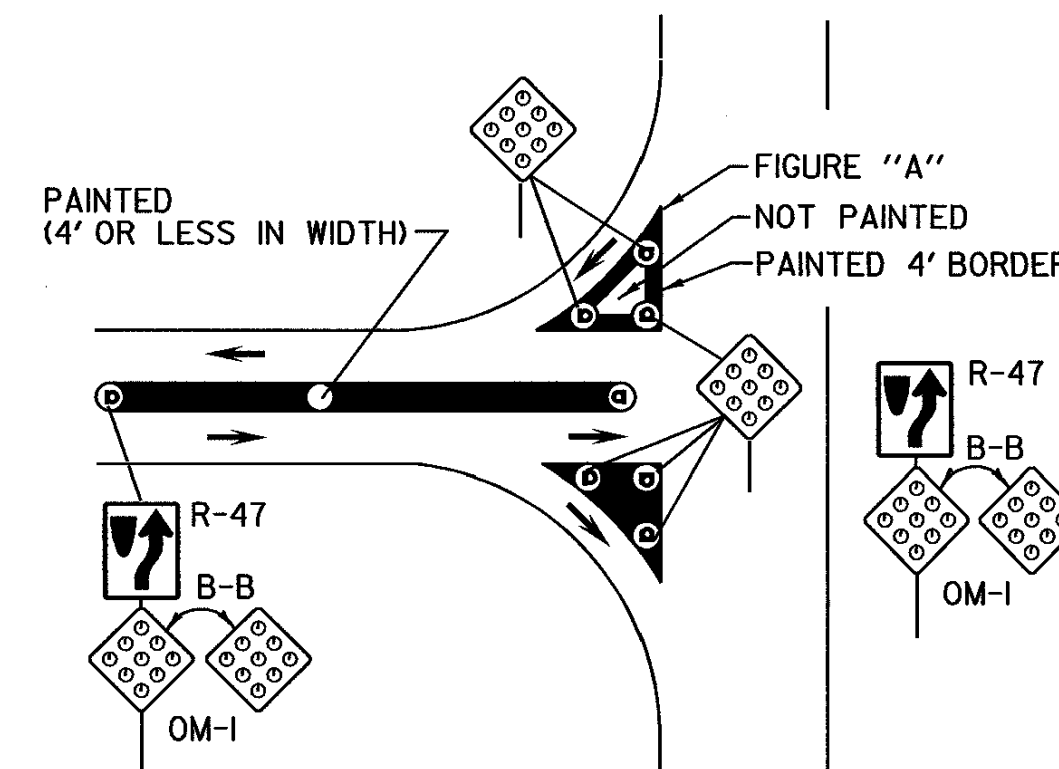
**"NO PASSING" ZONE LAYOUT IN PAVEMENT WIDTH TRANSITIONS, TWO LANE HIGHWAY TO DIVIDED HIGHWAY**

THE FOLLOWING GUIDELINES WILL BE USED WHEN PAINTING ISLAND ON STATE HIGHWAYS AND RECOMMENDED FOR ISLANDS ON OTHER SYSTEMS WITHIN THE STATE.

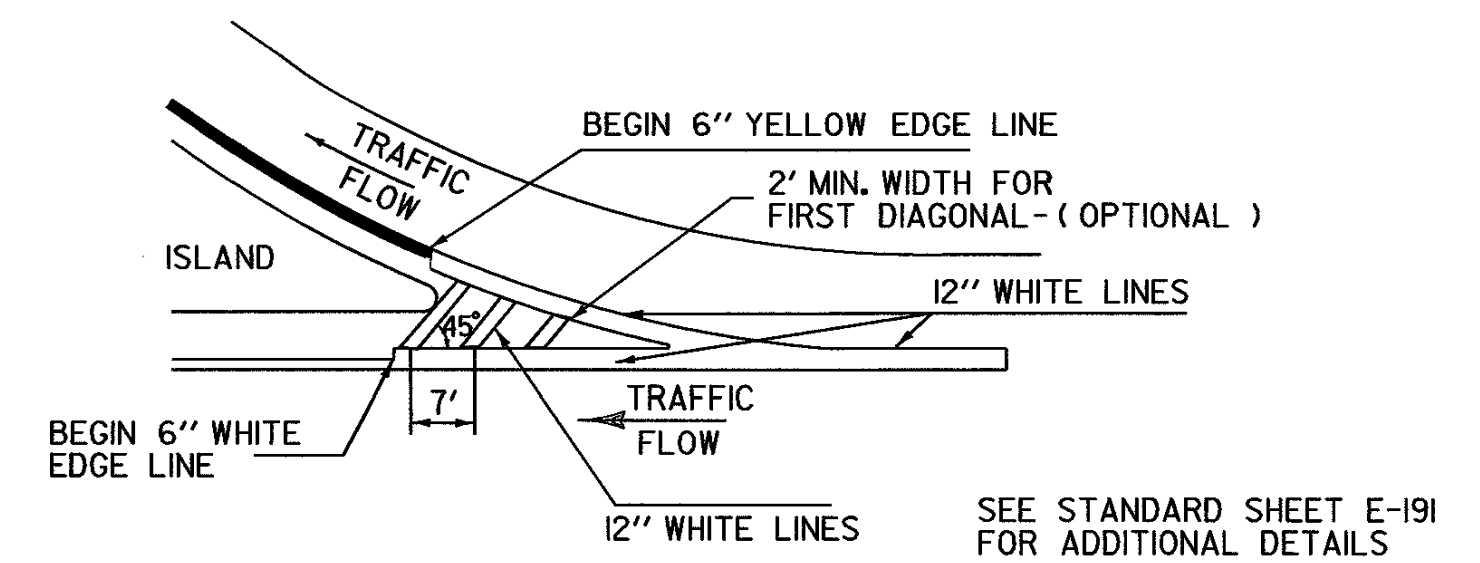
I. PAINTING: ISLANDS WHICH ARE FOUR FEET IN WIDTH AND TRIANGLE ISLANDS WHICH ARE LESS THAN FOUR HUNDRED AND FIFTY SQUARE FEET SHALL BE PAINTED ENTIRELY. TRIANGLES WHICH ARE FOUR HUNDRED AND FIFTY SQUARE FEET AND LARGER SHALL BE PAINTED WITH A FOUR FOOT BORDER AS SHOWN ON FIGURE "A" OF THE PAINTED ISLAND DETAIL.

II. SIGNS: ALL APPROACH NOSES TO THE ISLANDS IN THE LINE OF TRAFFIC WILL BE SIGNED WITH A KEEP RIGHT (R-47) SIGN AS WELL AS OBJECT MARKERS PLACED BACK TO BACK TO INDICATE THE BEGINNING (END) OF THE ISLAND.

III. EXCEPTIONS: THERE WILL BE SPECIAL CASES WHICH REQUIRE AN EXCEPTION TO, OR MODIFICATION OF THIS GUIDELINE. THESE QUESTIONS SHOULD BE REFERRED TO THE TRAFFIC DESIGN ENGINEER OR DELEGATED REPRESENTATIVE.

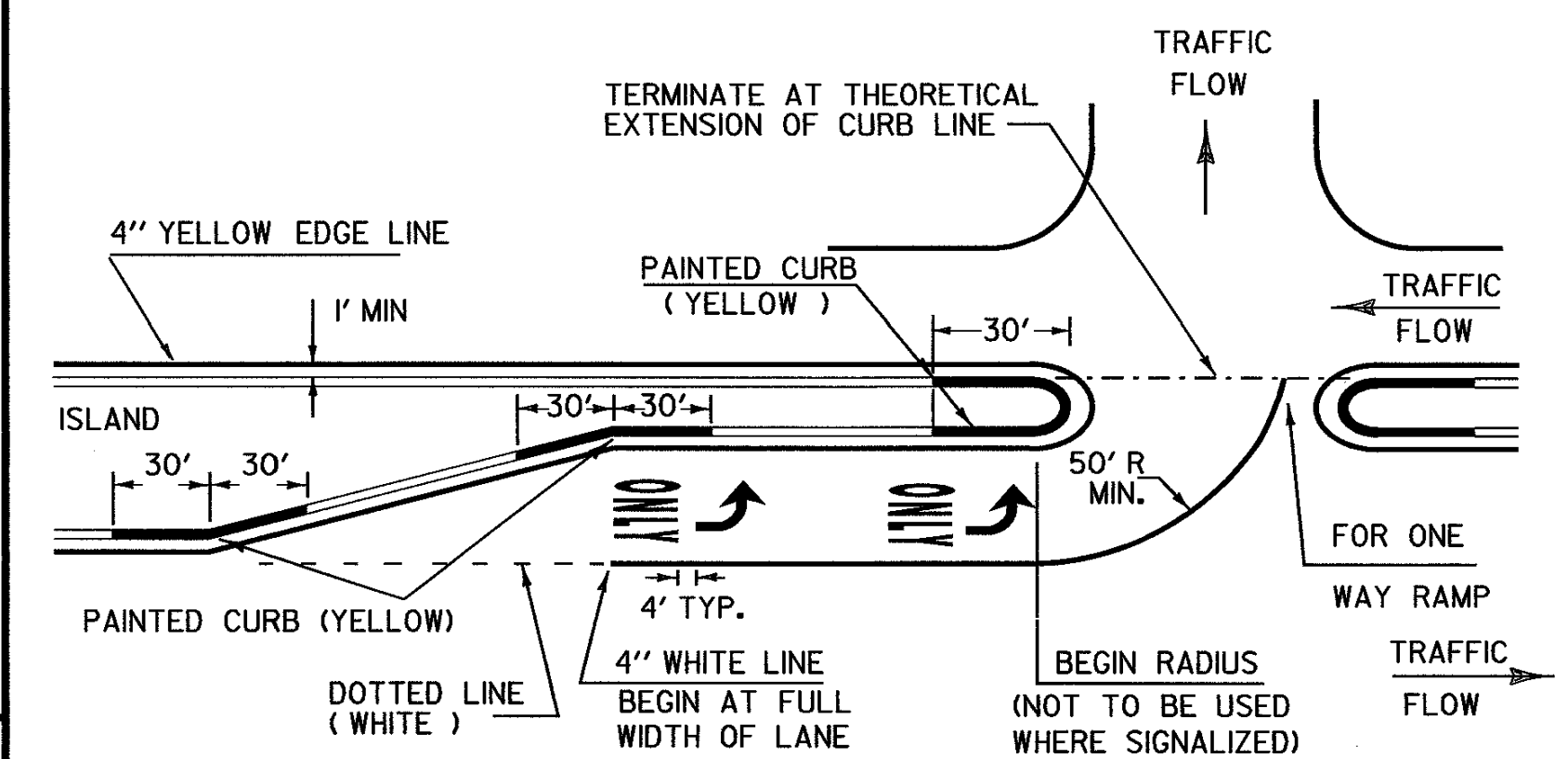


**PAINTED ISLANDS**

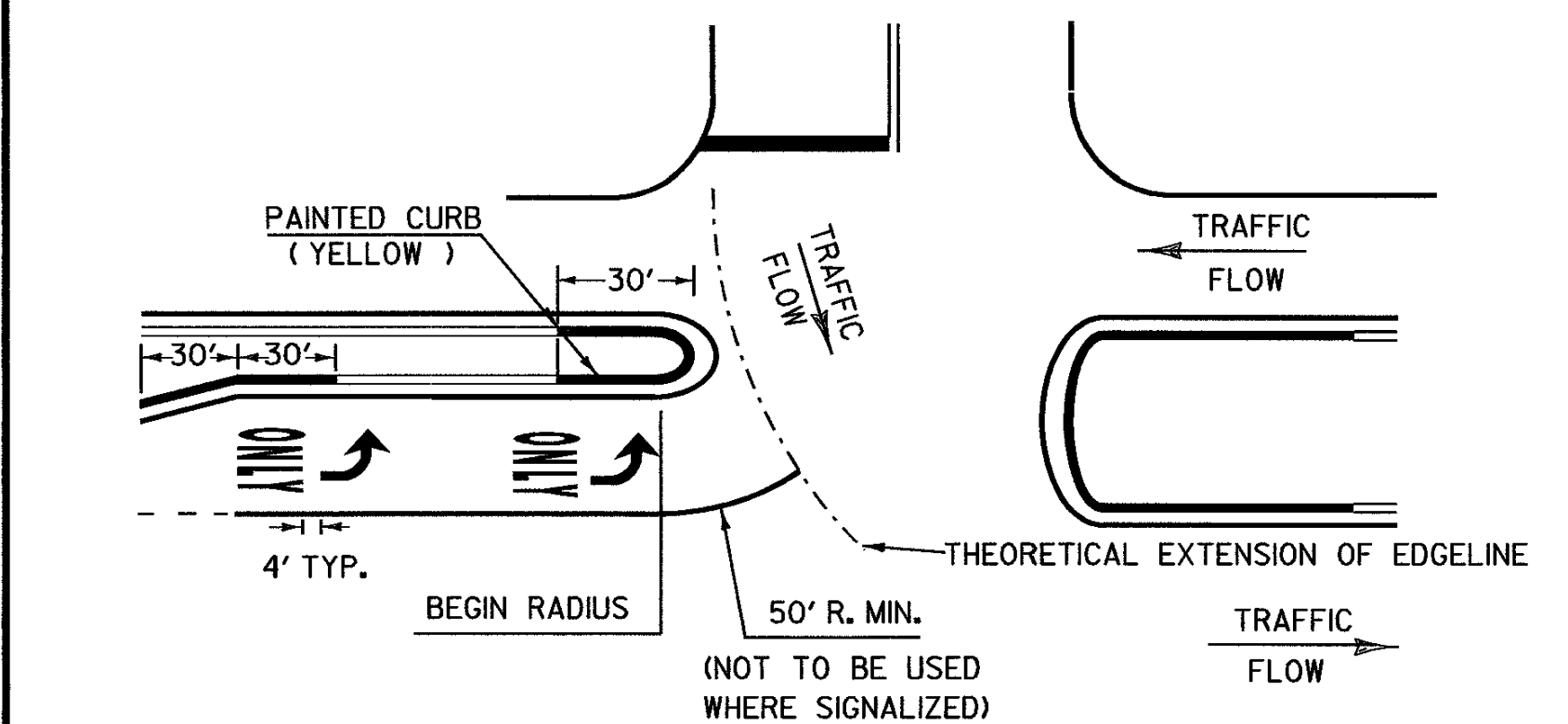


**GORE MARKING DETAIL - EXIT**

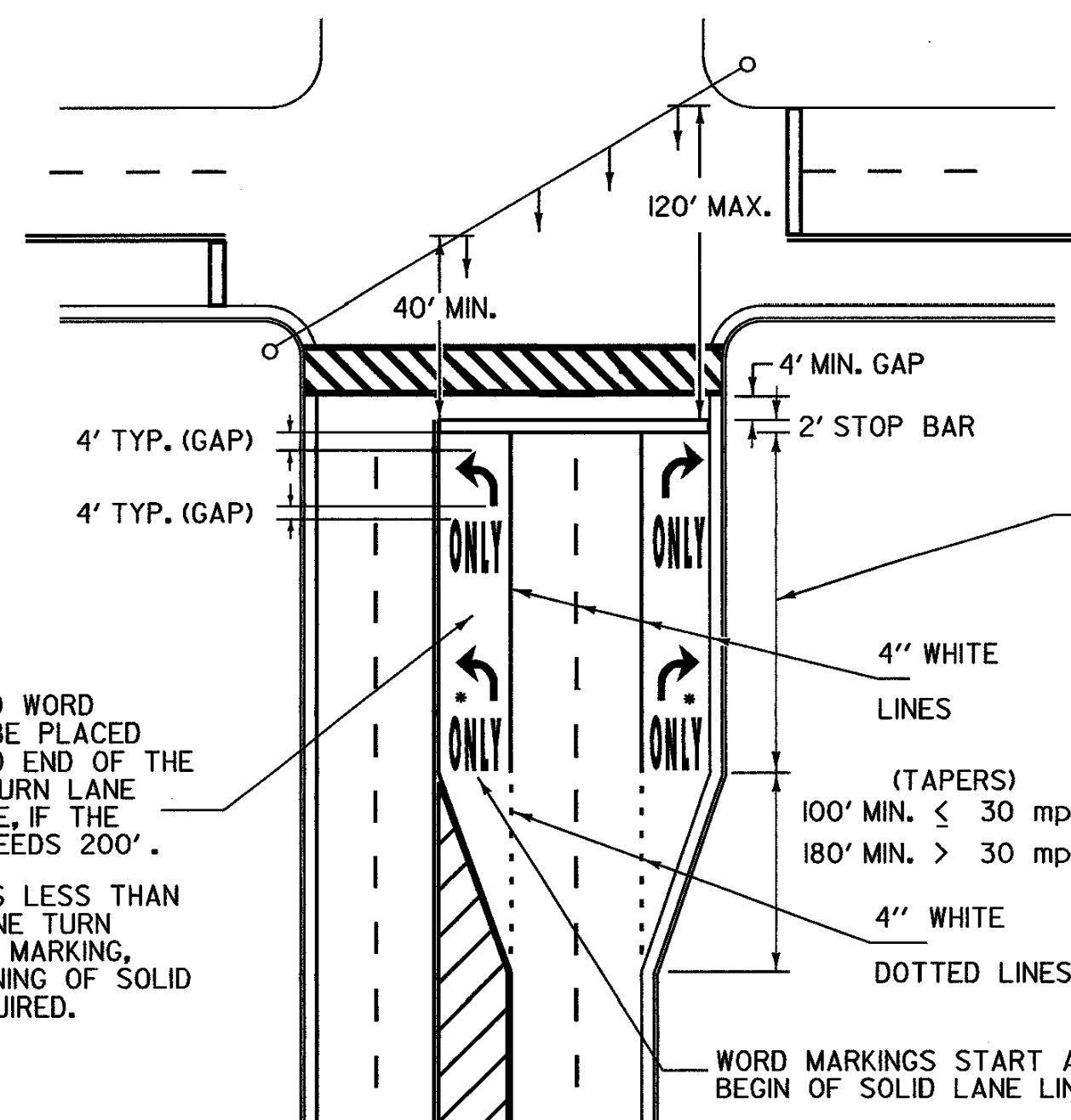
**TRANSVERSE LINES**



**TURN LANE AND PAINTED CURB DETAIL**



**CURB PAINTING:** CURB SHALL BE PAINTED ON THE ISLAND NOSE AND TO A POINT 30 FEET FROM THE END OF THE ISLAND. IN ADDITION, CURB SHALL BE PAINTED 30 FEET FROM ANY CHANGE IN CURB DIRECTION.



**TYPICAL MARKINGS FOR SIGNALIZED INTERSECTION**

EXCLUSIVE TURN LANES (LEFT OR RIGHT) LANE LINES SHALL BE SOLID AND EXTEND BACK FROM THE STOP LINE TO THE POINT OF FULL LANE WIDTH OF THE TURN LANE.

FOR DESIGN OF LEFT OR RIGHT TURN LANES REFER TO VTRANS \*GUIDELINE FOR DETERMINING STORAGE, TAPER AND DECELERATION LENGTHS FOR LEFT AND RIGHT-TURN LANES AT INTERSECTIONS\*

TURN ARROWS AND WORD MARKINGS SHALL BE PLACED AT THE BEGIN AND END OF THE LEFT (OR RIGHT) TURN LANE AND IN THE MIDDLE, IF THE LANE LENGTH EXCEEDS 200'.  
 \* IF LANE LENGTH IS LESS THAN 100 FEET, ONLY ONE TURN ARROW AND WORD MARKING, PLACED AT BEGINNING OF SOLID LANE LINE, IS REQUIRED.

**THIS SHEET NOT TO SCALE**

**OTHER STDS. E-191 E-193 REQUIRED**

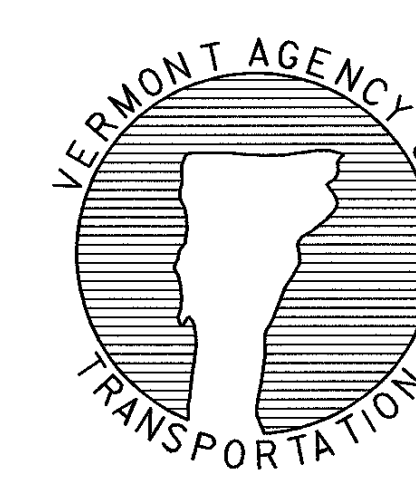
**REVISIONS AND CORRECTIONS**

- AUG. 18, 1995 - DATE OF ORIGINAL ISSUE
- OCT. 14, 1998 - CHANGED GORE MARKING DETAIL
- DEC. 28, 1998 - CHANGED GORE MARKING HATCHING TO 12° PER FHWA
- OCT. 12, 2000 - CHANGED TURN LANE CRITERIA

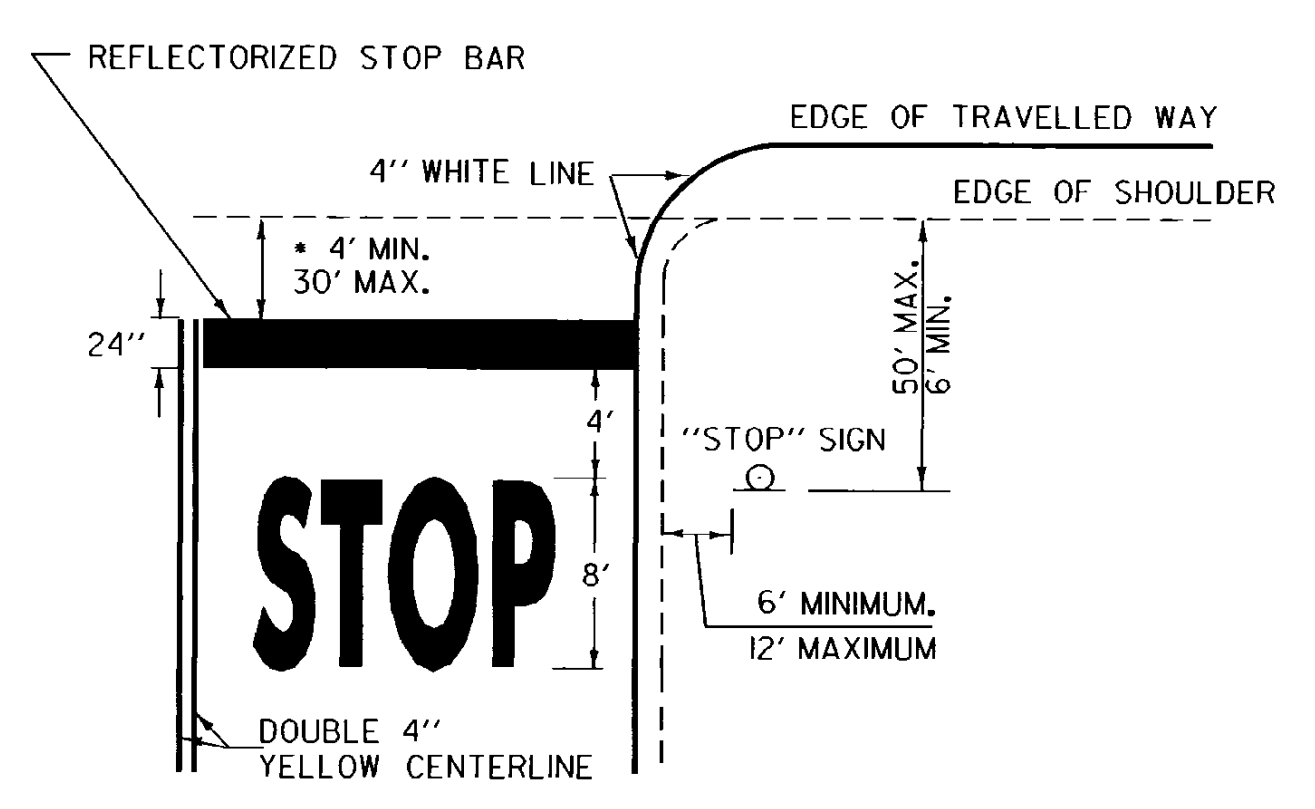
**APPROVED**

*[Signature]*  
 DIRECTOR OF PROJECT DEVELOPMENT  
*[Signature]*  
 ROADWAY & TRAFFIC DESIGN ENGINEER

**PAVEMENT MARKING DETAILS**

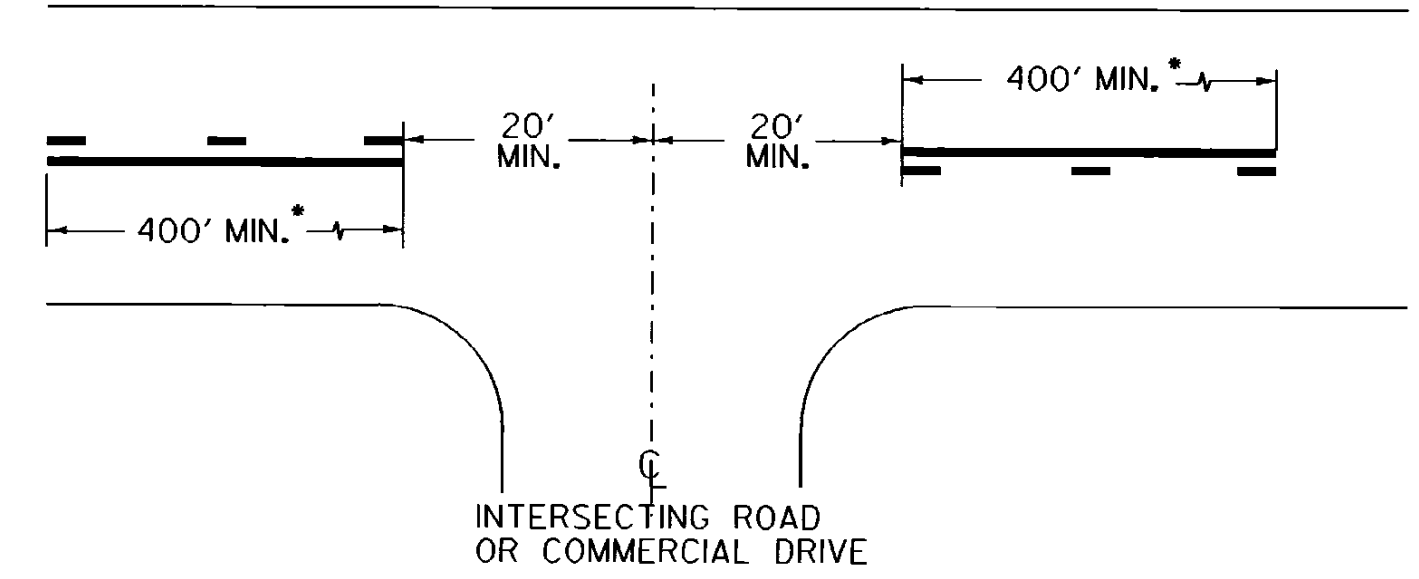


**STANDARD E-192**



• THE "DESIRED STOPPING POINT" IS THE LOCATION BASED ON SITE CONDITIONS THAT BEST ALLOWS THE STOPPED VEHICLE TO VIEW THE APPROACHING TRAFFIC.

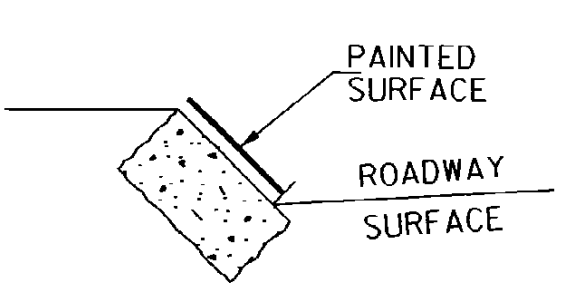
**STOP BAR LAYOUT**



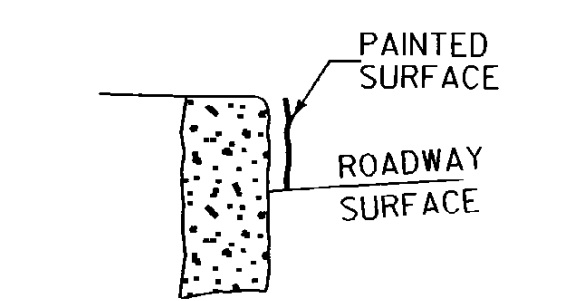
• THE SOLID LINE SHALL BE PAIRED WITH EITHER A SOLID OR DASHED LINE DEPENDING ON SIGHT DISTANCE AVAILABILITY IN THE OPPOSING DIRECTION. ADJUSTMENTS TO THE 40 FOOT CENTERLINE OPENING MAY BE MADE TO ACCOMMODATE SKEWED INTERSECTIONS.

- CENTERLINE BREAKS:
- AT ALL STATE HIGHWAYS AND TOWN HIGHWAYS, INCLUDING CLASS 4 TH'S, THAT HAVE STOP AND LEGAL LOAD LIMIT SIGNS INSTALLED
  - COMMERCIAL DRIVES:
    - WHERE A SEPERATE TURN LANE EXISTS ON THE MAIN LINE (LT. OR RT.)
    - SIGNIFICANT TRAFFIC VOLUMES EXISTS.
    - IF MOTORISTS NEED ASSISTANCE TO DEFINE ENTRANCE POINTS.

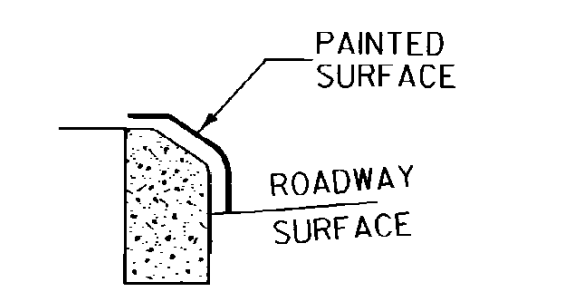
**CENTERLINE LAYOUT**



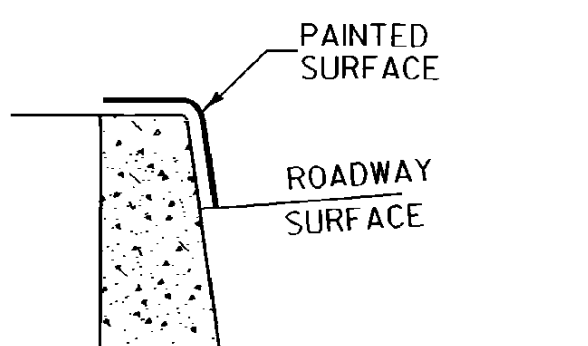
**GRANITE SLOPE EDGING**



**VERTICAL GRANITE CURB**

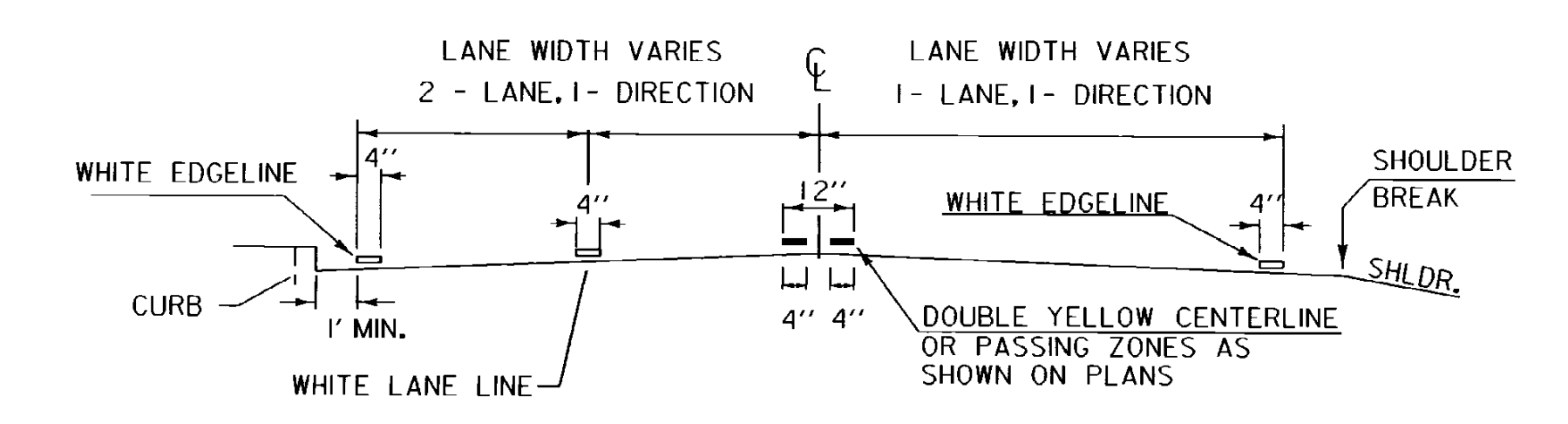


**TYPE A (CONCRETE)**

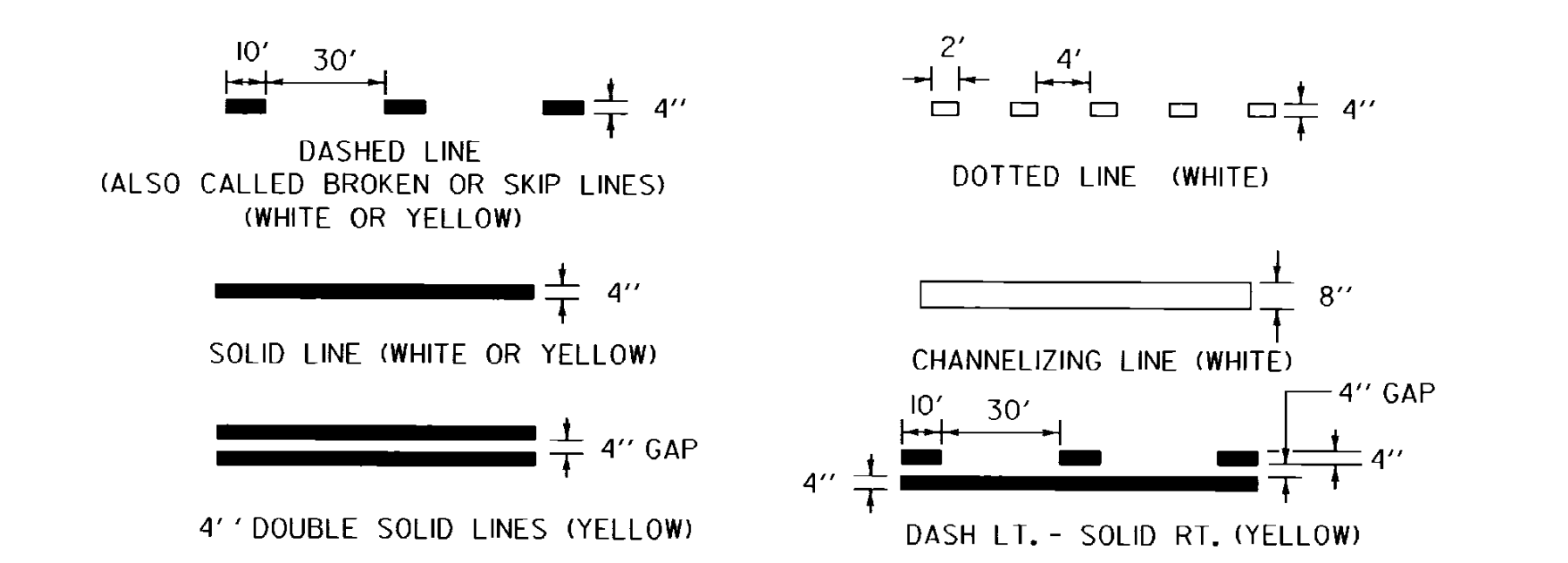


**TYPE B (CONCRETE)**

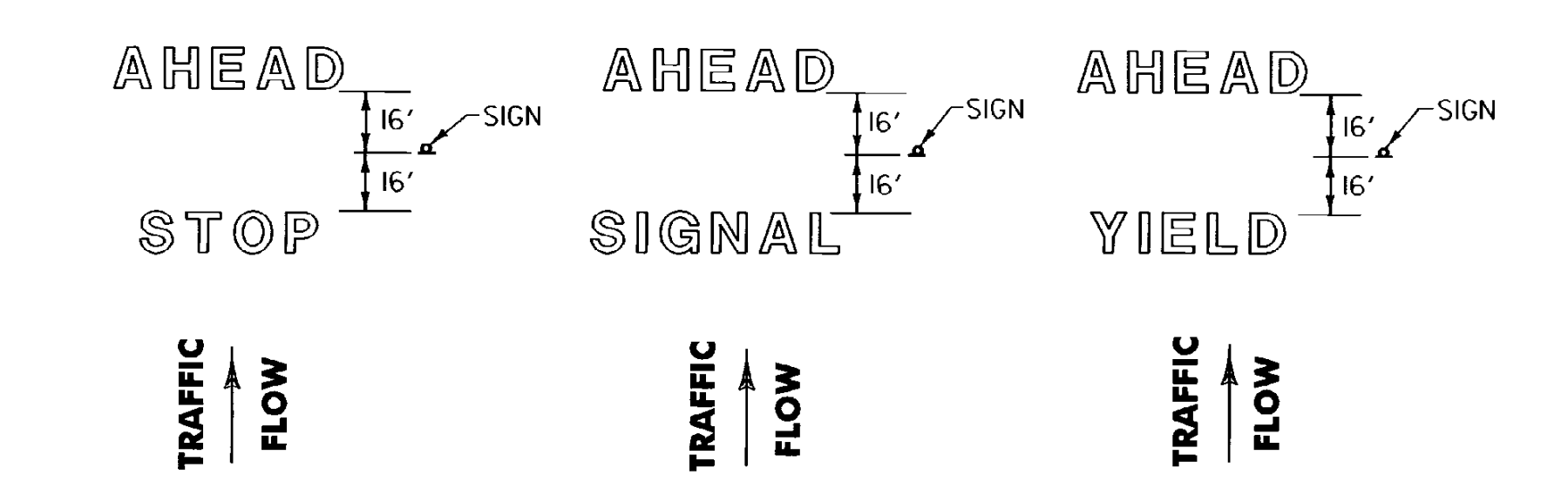
**PAINTED CURB**



**PAVEMENT MARKING PLACEMENT DETAIL**

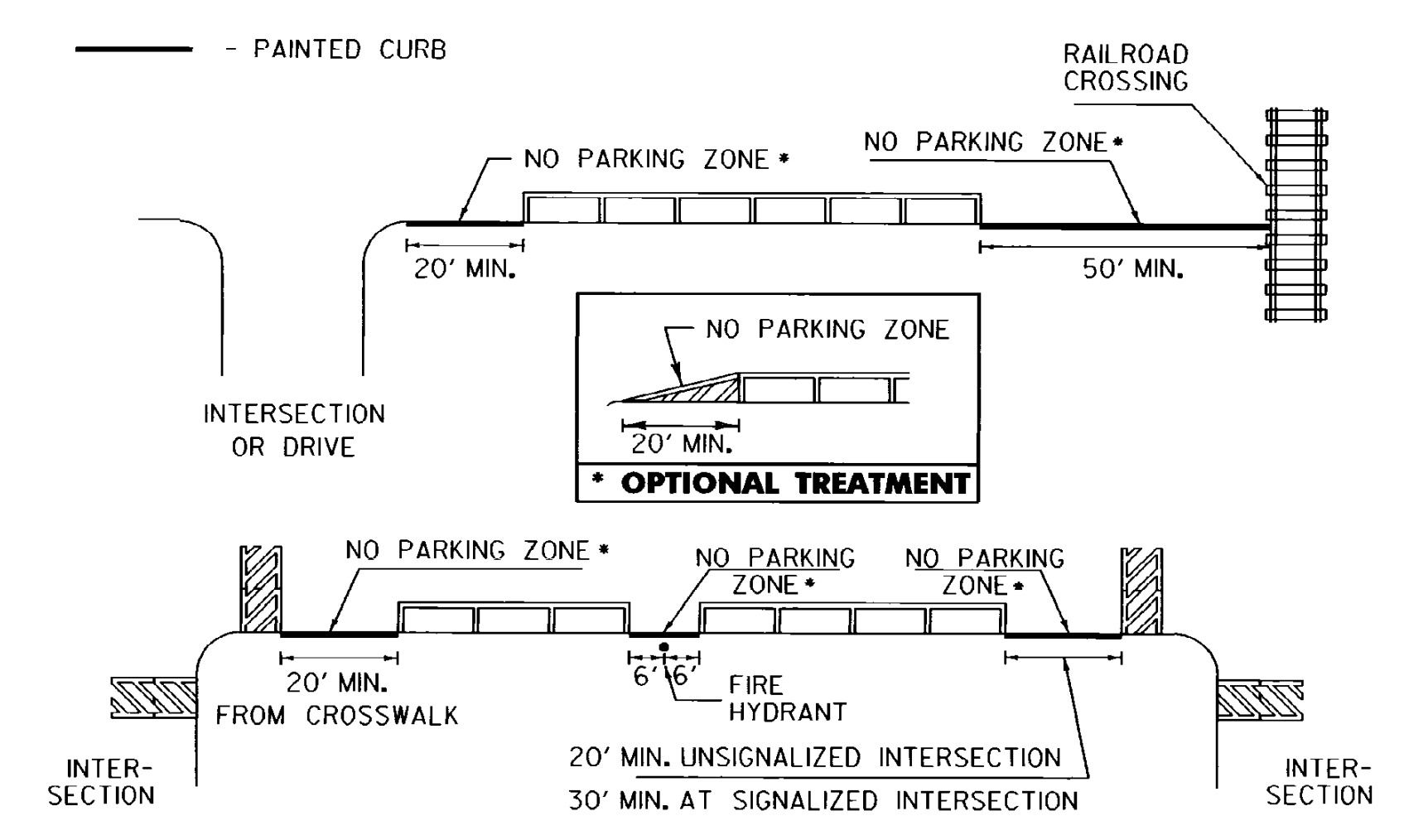


**PAVEMENT MARKING LINE DETAILS**

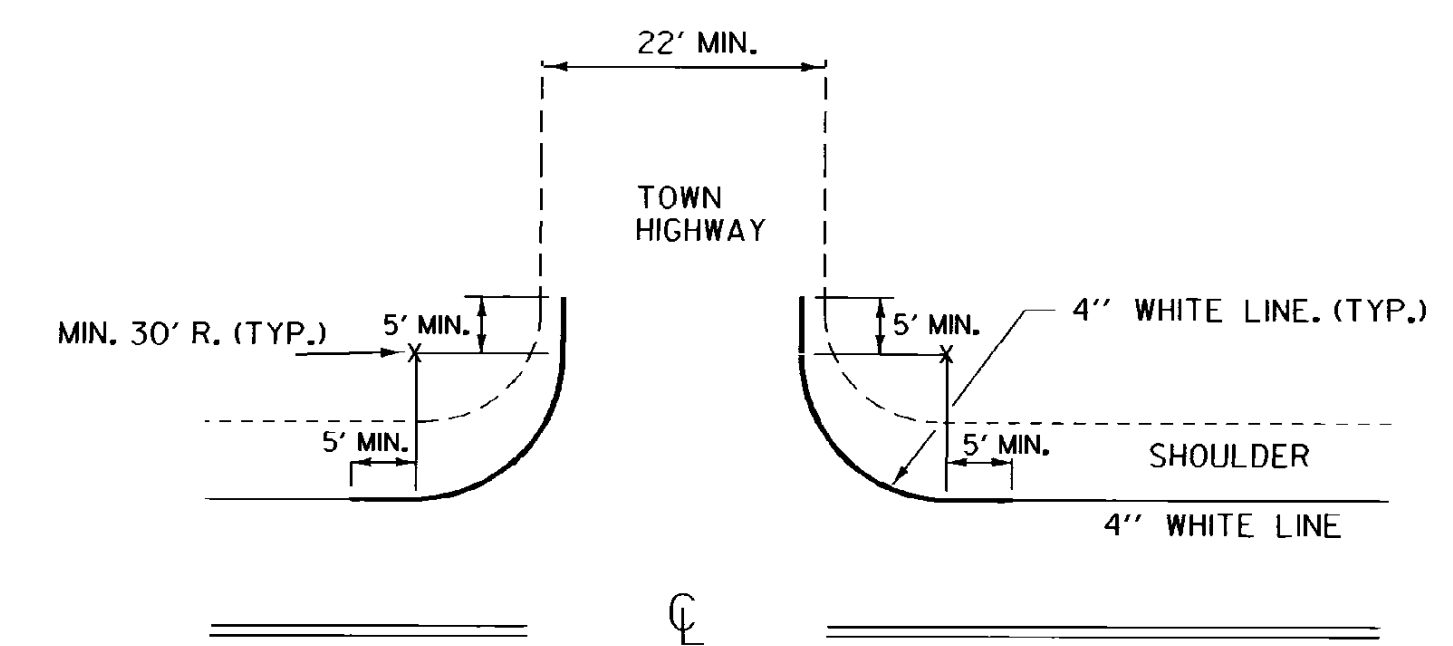


**LETTER IN WORD MARKING SPACING DETAIL**

NOTE: SINGLE WORDS CENTERED ON SIGN ie: SCHOOL OR YIELD



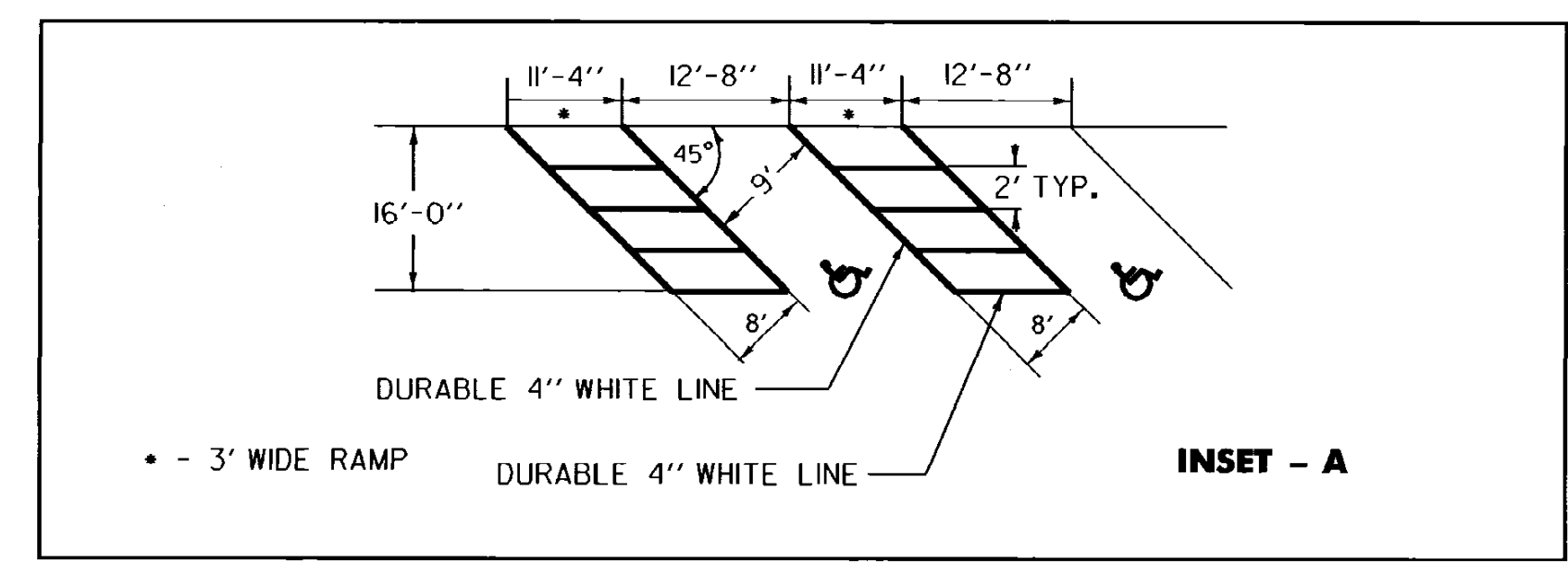
**NO PARKING LAYOUT DETAILS**



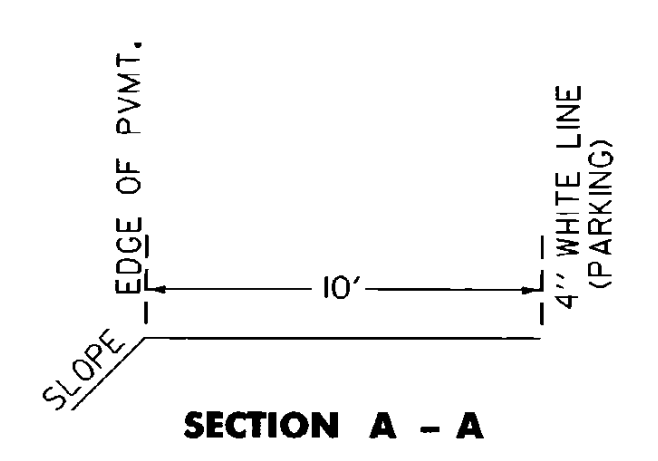
**EDGE LINE LAYOUTS**

EDGELINES SHALL BE APPLIED TO ALL STATE HIGHWAYS AND SHOULD BE MAINTAINED AT A CONSTANT DISTANCE FROM THE CENTERLINE UNLESS PAVEMENT WIDTH INCREASES TO ALLOW WIDER LANES.

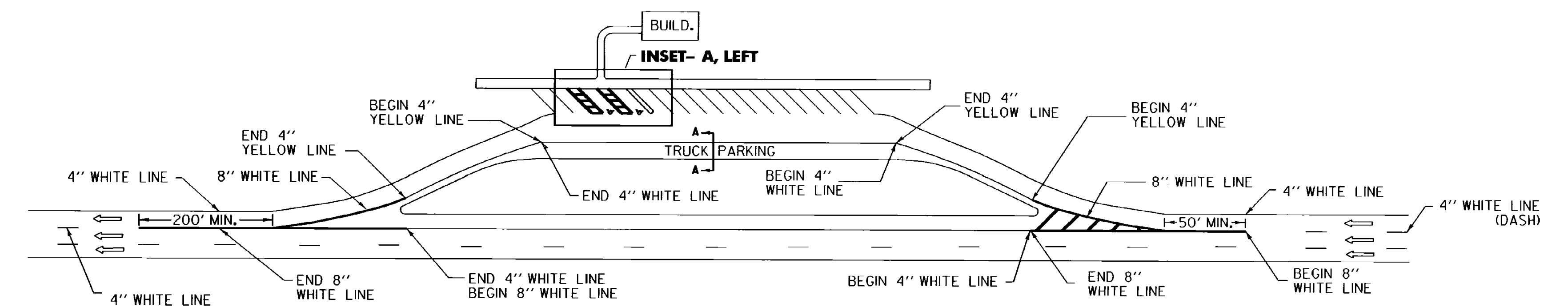
APPLY EDGELINE AS DETAILED ON ALL PAVED CLASS 1 & CLASS 2 TOWN HIGHWAYS AND ANY CLASS 3 TOWN HIGHWAY 22 FEET OR MORE IN WIDTH. IF MIN. 30 FOOT RADIUS CANNOT BE OBTAINED, OR THE TOWN HIGHWAY IS NOT PAVED, BREAK THE EDGELINE USING AN 80 FOOT GAP AT INTERSECTION.



NOTE: SEE STANDARD SHEET E-191 FOR HANDICAP SYMBOL POSITIONING AND DETAIL.



**TRUCK PARKING DETAIL**



**REST AREA PARKING DETAILS**

REVISIONS AND CORRECTIONS  
AUG. 18, 1995 - DATE OF ORIGINAL ISSUE

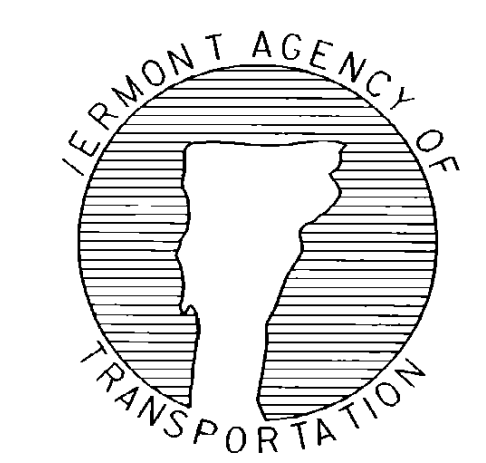
APPROVED  
*Scott D. McArthur*  
DIRECTOR OF ENGINEERING  
*David A. Bass*  
TRAFFIC AND SAFETY ENGINEER

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION. FHWA FINAL APPROVAL PENDING.

**PAVEMENT MARKING DETAILS**

THIS SHEET IS NOT TO SCALE

OTHER STDS. E - 191, E - 192 REQUIRED



STANDARD  
E-193

1. TRAFFIC CONTROL DEVICES NOT DETAILED IN THE VERMONT AGENCY OF TRANSPORTATION (VAOT) "STANDARD DRAWINGS" OR THE PROJECT PLANS SHALL BE IN ACCORDANCE WITH THE "MANUAL ON TRAFFIC CONTROL DEVICES" (MUTCD) AND THE "STANDARD HIGHWAY SIGNS AND MARKINGS" BOOK (SHSM) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION (FHWA).
2. CONSTRUCTION SIGNS SHALL BE ERECTED BEFORE THE START OF ANY WORK AND SHALL BE COVERED UNTIL WORK COMMENCES, DURING PERIODS OF INACTIVITY OR UPON COMPLETION OF THE WORK. EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER.
3. CONSTRUCTION SIGN COVERS SHALL CONSIST OF A PANEL, PAINTED FLAT BLACK, THE SAME SIZE AS THE SIGN IT COVERS. THE PANEL SHALL BE OF WOOD, PLYWOOD, HARDBOARD OR ANY MATERIAL SATISFACTORY TO THE ENGINEER. NO MATERIAL WILL BE APPROVED THAT WILL DETERIORATE BY EXPOSURE TO THE WEATHER DURING THE PROJECT. MOUNTING OF THE PANEL SHALL BE DONE IN SUCH A WAY AS NOT TO DAMAGE THE SIGN FACE MATERIAL.
4. SIGNS SHALL BE MAINTAINED IN A CLEAN AND LEGIBLE CONDITION SATISFACTORY TO THE ENGINEER. THEY SHALL BE KEPT PLUMB AND LEVEL, AND ALWAYS PRESENT A NEAT APPEARANCE. DAMAGED, DEFACED OR DIRTY SIGNS SHALL BE REPAIRED, CLEANED OR REPLACED AS ORDERED BY THE ENGINEER.
5. NO CROSS-BRACING OR BACK-BRACING TO KEEP POSTS PLUMB WILL BE ALLOWED. CONCRETE FOUNDATIONS, COLLARS OR SOIL BEARING PLATES ARE NOT PERMITTED. CONSTRUCTION SIGNS SHALL BE PLACED ON TWO POSTS.
6. CONSTRUCTION SIGNS INSTALLED ON POSTS SHALL BE SET SECURELY IN THE GROUND. THE BOTTOM OF A SIGN SHALL BE AT LEAST FIVE FEET ABOVE THE EDGE OF PAVEMENT AND THE NEAREST EDGE OF A SIGN SHALL BE AT LEAST SIX FEET OUTSIDE THE SHOULDER POINT, FOUR FEET OUTSIDE GUARDRAIL, OR TWO FEET OUTSIDE CURBING OR SIDEWALK. THE INSTALLATION OF SIGNS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. IN URBAN AREAS, THE BOTTOM OF THE SIGN SHALL BE AT LEAST SEVEN FEET ABOVE THE SIDEWALK OR EDGE OF PAVEMENT, WHICHEVER IS HIGHER.
7. PORTABLE SIGNS SHALL BE PLACED ON THE EDGE OF ROADWAY AND A MINIMUM OF ONE FOOT ABOVE THE TRAVELED WAY. ALL VEGETATION THAT INTERFERES WITH VISIBILITY OF THE SIGNS SHALL BE REMOVED. WHEN PLACED BEHIND GUARDRAIL, THE BOTTOM OF THE SIGN FACE SHALL BE ABOVE THE TOP OF THE GUARDRAIL.
8. SIGNS SHALL BE REMOVED UPON COMPLETION OF THE WORK AT THE DISCRETION OF THE ENGINEER.
9. ROLL UP CONSTRUCTION SIGNS SHALL HAVE RETROREFLECTIVE SHEETING EQUAL TO OR EXCEEDING THE "AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS" (AASHTO) M 268 ["AMERICAN SOCIETY FOR TESTING AND MATERIALS" (ASTM) D 4956] TYPE VI AND TYPE VII UNLESS OTHERWISE NOTED.
10. SOLID SUBSTRATE CONSTRUCTION SIGNS SHALL HAVE RETROREFLECTIVE SHEETING EQUAL TO OR EXCEEDING THE "AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS" (AASHTO) M 268 ["AMERICAN SOCIETY FOR TESTING AND MATERIALS" (ASTM) D 4956] TYPE VIII OR IX REQUIREMENTS UNLESS OTHERWISE NOTED.
11. WHERE CONSTRUCTION SIGN INSTALLATIONS ARE NOT PROTECTED BY GUARDRAIL OR OTHER APPROVED TRAFFIC BARRIERS, ALL SIGN STANDS AND POST INSTALLATIONS SHALL MEET "NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM" (NCHRP) REPORT 350 OR THE AASHTO "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH). THE APPROPRIATE RESOURCE SHALL BE DETERMINED AS DESCRIBED IN THE MASH PUBLICATION. NO SIGN POSTS SHALL EXTEND OVER THE TOP OF THE SIGN INSTALLED ON SAID POSTS, WHEN ANCHORS ARE INSTALLED, STUBS SHALL NOT BE GREATER THAN FOUR INCHES ABOVE EXISTING GROUND.
12. ROADWAY AND SHOULDER WIDTHS DEPICTED ON THE STANDARD DRAWINGS MAY VARY.
13. THESE STANDARD DRAWINGS ARE INTENDED TO SERVE AS VTRANS STANDARD OPERATING PROCEDURE. IT IS NOTED THAT COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL WORK ZONE MAY BE MODIFIED DUE TO FIELD CONDITIONS, AT THE DISCRETION OF THE ENGINEER.

OTHER STDS. REQUIRED: **NONE**

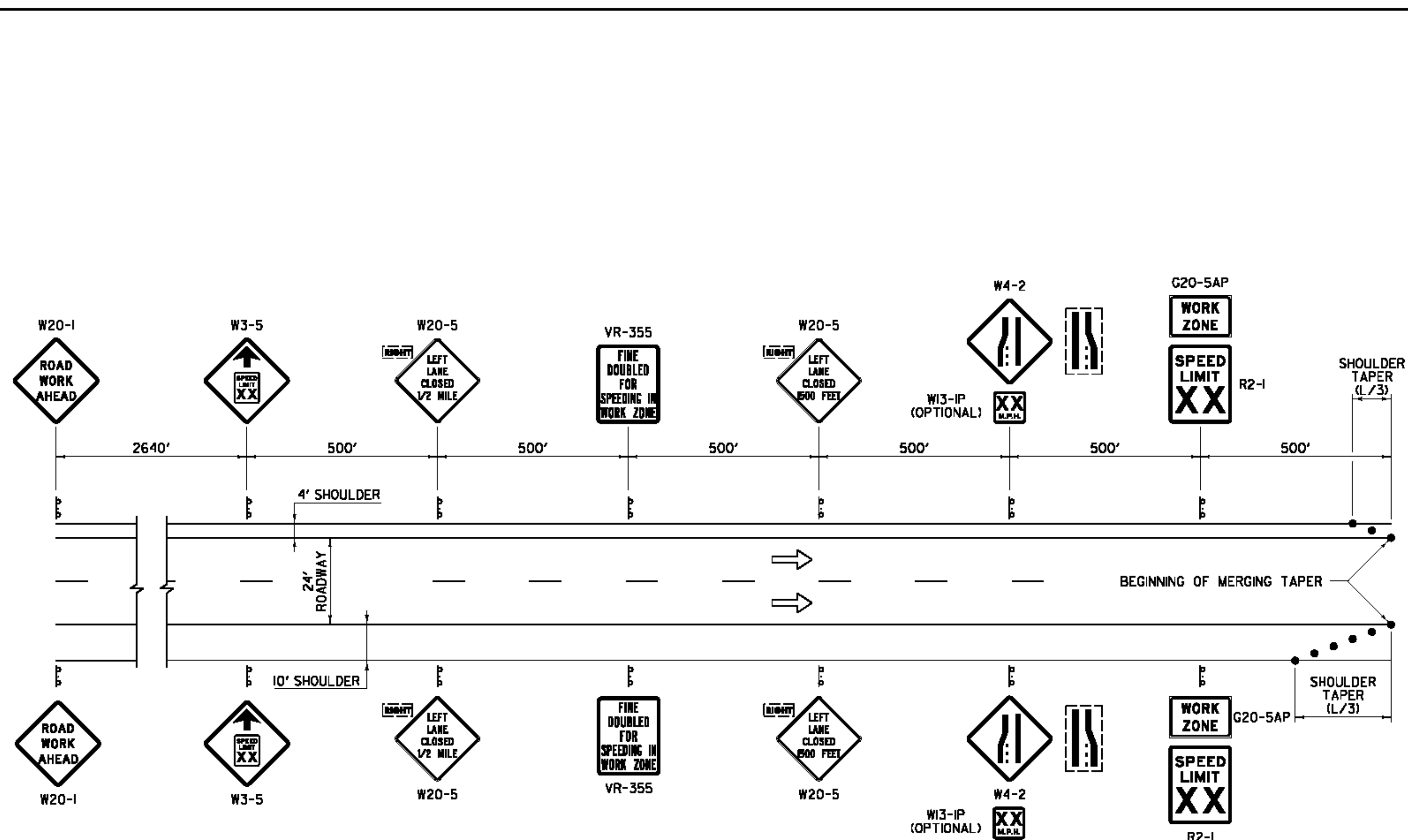
REVISIONS AND CORRECTIONS  
AUG. 6, 2012 - ORIGINAL APPROVAL DATE

APPROVED  
*W.A.C. Pl.*  
HIGHWAY SAFETY & DESIGN ENGINEER  
*Richard F. Huante*  
DIRECTOR OF PROGRAM DEVELOPMENT  
*Mark D. Richter*  
FEDERAL HIGHWAY ADMINISTRATION

## TRAFFIC CONTROL GENERAL NOTES



STANDARD  
T-1



**LEGEND**  
 → FLOW OF TRAFFIC  
 • RETROREFLECTIVE PLASTIC DRUM

REVISIONS AND CORRECTIONS  
 AUG. 6, 2012 - ORIGINAL APPROVAL DATE

APPROVED  
*[Signature]*  
 HIGHWAY SAFETY & DESIGN ENGINEER  
*[Signature]*  
 DIRECTOR OF PROGRAM DEVELOPMENT  
*[Signature]*  
 FEDERAL HIGHWAY ADMINISTRATION

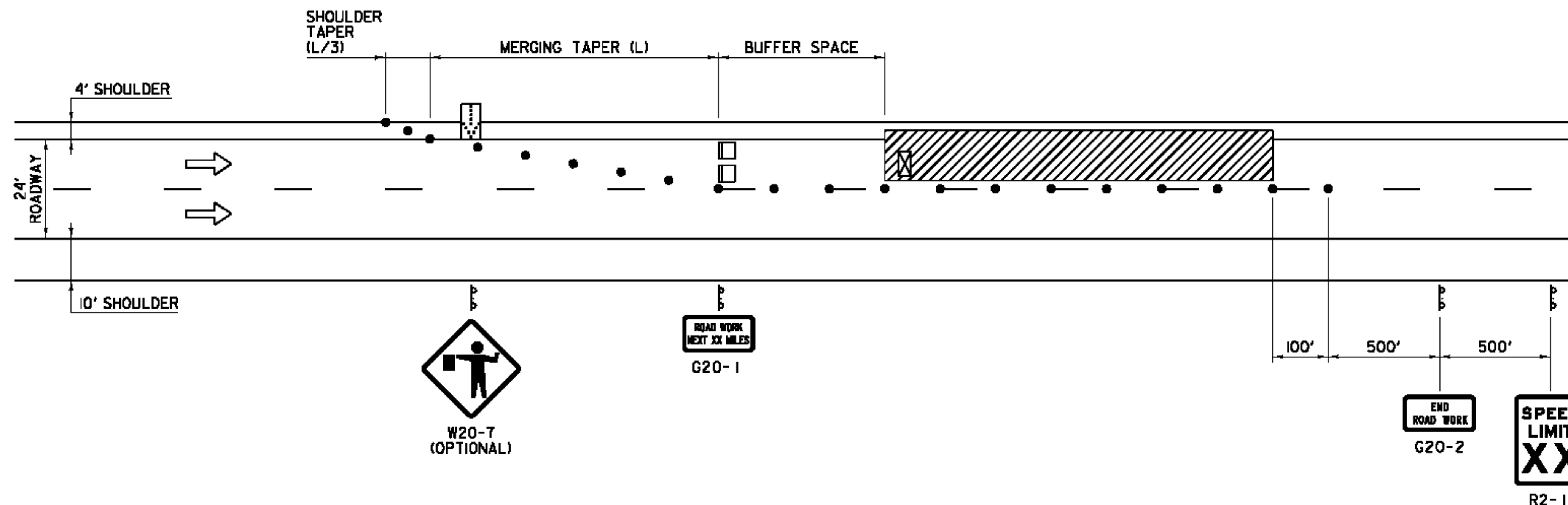
# CONSTRUCTION APPROACH SIGNING DIVIDED HIGHWAY ONE LANE CLOSED

- GENERAL NOTES:**
- IF APPLICABLE, THE CONTRACTOR SHALL HAVE SIGNS FOR CLOSURE OF RIGHT AND LEFT LANES ON PROJECT BEFORE WORK COMMENCES.
  - THE "SPEED LIMIT XX" (R2-1) AND "SPEED REDUCTION WARNING" (W3-5) SIGNS SHALL ONLY BE USED IF A TEMPORARY SPEED LIMIT CERTIFICATE HAS BEEN APPROVED. THE "SPEED LIMIT XX" (R2-1) AND OTHER RELATED SIGNS SHALL BE REMOVED OR COVERED WHEN WORK IS NOT IN PROGRESS AND ROADWAY IS NOT RESTRICTED.
  - "FINE DOUBLED FOR SPEEDING IN WORK ZONE" (VR-355) SHALL ONLY BE USED IF TEMPORARY SPEED LIMIT CERTIFICATE HAS BEEN APPROVED.
  - EXISTING SPEED LIMIT SIGNS SHALL BE COVERED WHEN TEMPORARY SPEED LIMIT SIGNS ARE POSTED.
  - FOR SHORT TERM PROJECTS (THREE CONSECUTIVE DAYS OR LESS) WITH NO OFFICIAL TEMPORARY SPEED LIMIT, THE "SPEED LIMIT XX" (R2-1) AND "SPEED REDUCTION WARNING" (W3-5) SIGNS MAY BE SUBSTITUTED WITH ADVISORY SPEED PLAQUES (W3-IP) MOUNTED AS SUPPLEMENTAL SIGNS BELOW THE "LANE ENDS" (W4-2) SIGNS.
  - FOR AN ANTICIPATED LONG TERM CLOSURE (GREATER THAN THREE CONSECUTIVE DAYS) WITH A NON-MOVING OPERATION, ALL SIGNS SHALL BE POST MOUNTED.
  - FOR A LONG TERM CLOSURE WITH A MOVING OPERATION, THE "ROAD WORK AHEAD" (W20-1) SIGN SHALL BE POST MOUNTED. THE REMAINING SIGNS MAY BE PORTABLE AND SHALL MOVE AS THE WORK AREA CHANGES.
  - FOR A SHORT TERM PROJECT (THREE CONSECUTIVE DAYS OR LESS), SIGNS MAY BE POST MOUNTED OR PORTABLE.
  - THE "SPEED LIMIT XX" (R2-1) SOLID SUBSTRATE SIGNS SHALL HAVE RETROREFLECTIVE SHEETING EQUAL TO OR EXCEEDING AASHTO M 268 [ASTM D 4956] TYPE III.

**OTHER STDS. REQUIRED: T-1, T-12, T-31**

## STANDARD

# T-11



- GENERAL NOTES:**
- FOR LONG TERM CLOSURES, DASHED LANE LINE REMOVAL SHALL BEGIN 750 FEET IN ADVANCE OF THE BEGINNING OF THE SHOULDER TAPER AND TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED ALONG THE CHANNELIZING DEVICES.
  - CHANNELIZING DEVICES OTHER THAN RETROREFLECTIVE PLASTIC DRUMS SHALL BE ALLOWED ALONG THE BUFFER SPACE AND WORK AREA. THE TYPE OF DEVICE SHALL BE CONSISTENT THROUGHOUT THE BUFFER SPACE AND WORK AREA AND SHALL REMAIN STABLE WHILE UNATTENDED.
  - THE NUMBER OF CHANNELIZING DEVICES, TYPE III BARRICADE AND OTHER TRAFFIC CONTROL DEVICES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE ACTUAL NUMBER REQUIRED ARE TO BE DETERMINED BASED ON INDIVIDUAL DETOUR CONDITIONS (TAPERS, SPEED LIMITS, LENGTH OF DETOUR, CURVE, ETC.). WARNING LIGHTS SHALL NOT BE USED ON CHANNELIZING DEVICES.
  - PLACE LAST CHANNELIZING DEVICE 100 FEET BEYOND THE ANTICIPATED WORK ZONE TERMINAL POINT EACH DAY.
  - THE ARROW PANEL SHALL BE PLACED ON THE SHOULDER OF THE ROADWAY, AS CLOSE AS PRACTICAL TO THE BEGINNING OF THE MERGING TAPER.
  - THE "ROAD WORK NEXT XX MILES" SIGN (G20-1) SHALL BE INSTALLED IN ADVANCE OF TEMPORARY TRAFFIC CONTROL ZONES THAT ARE MORE THAN TWO MILES IN LENGTH, OR AS DIRECTED BY THE ENGINEER. DISTANCES SHALL BE STATED TO THE NEAREST WHOLE MILE.
  - WHEN FLAGGER IS PRESENT THE "FLAGGER" (W20-7) SIGN SHALL BE USED; TO BE REMOVED IF FLAGGING STOPS FOR 15 MINUTES OR MORE.
  - "SPEED LIMIT XX" (R2-1) SIGN TO BE USED IF A TEMPORARY SPEED ZONE IS IN PLACE.
  - TAPER RATES ARE DETERMINED USING THE FOLLOWING EQUATION:  
 $L = WS$  FOR POSTED SPEEDS OF 45 MPH OR GREATER.  
 $L = WS/60$  FOR POSTED SPEEDS OF 40 MPH OR LESS.  
 $L$  = MINIMUM LENGTH OF TAPER  
 $W$  = WIDTH OF OFFSET IN FEET (TYPICAL)  
 $S$  = POSTED SPEED IN MPH
  - TAPER LENGTHS FOR SHOULDER WIDTHS OTHER THAN 10 FEET NEED TO BE CALCULATED.

- LEGEND**
- FLOW OF TRAFFIC
  - RETROREFLECTIVE PLASTIC DRUM
  - ⬮ FLASHING ARROW PANEL
  - TYPE III BARRICADE
  - ▨ WORK AREA
  - ⊠ TRUCK/TRAILER MOUNTED ATTENUATOR (OPTIONAL)

REVISIONS AND CORRECTIONS  
 AUG. 6, 2012 - ORIGINAL APPROVAL DATE

APPROVED  
*[Signature]*  
 HIGHWAY SAFETY & DESIGN ENGINEER  
*[Signature]*  
 DIRECTOR OF PROGRAM DEVELOPMENT  
*[Signature]*  
 FEDERAL HIGHWAY ADMINISTRATION

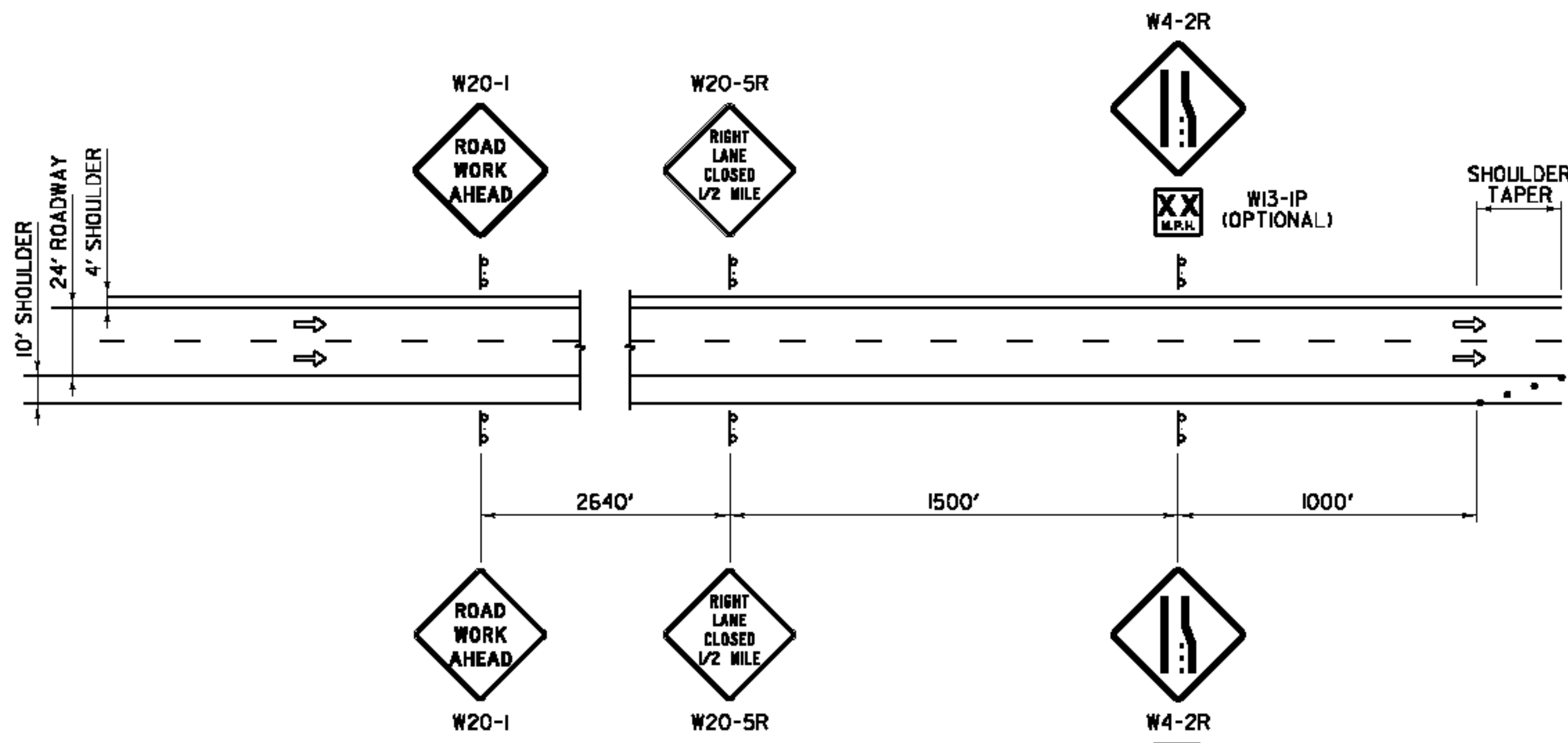
**TRAFFIC CONTROL  
 DIVIDED HIGHWAY  
 ONE LANE CLOSED**



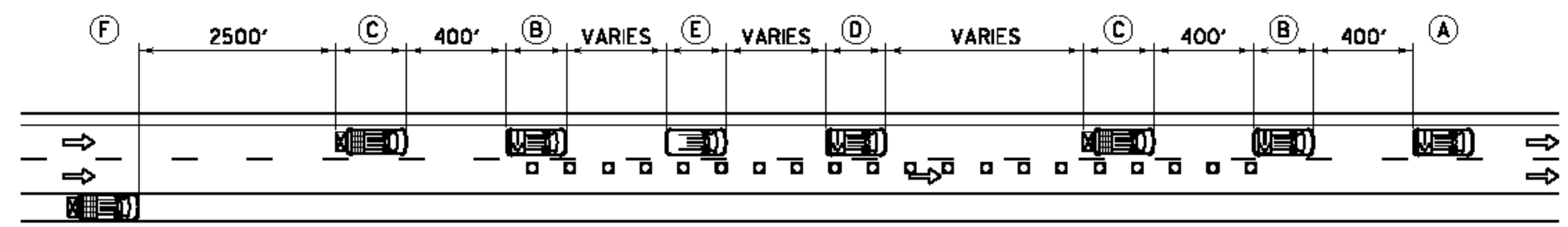
**STANDARD  
 T-12**

OTHER STDS. REQUIRED: T-1, T-11

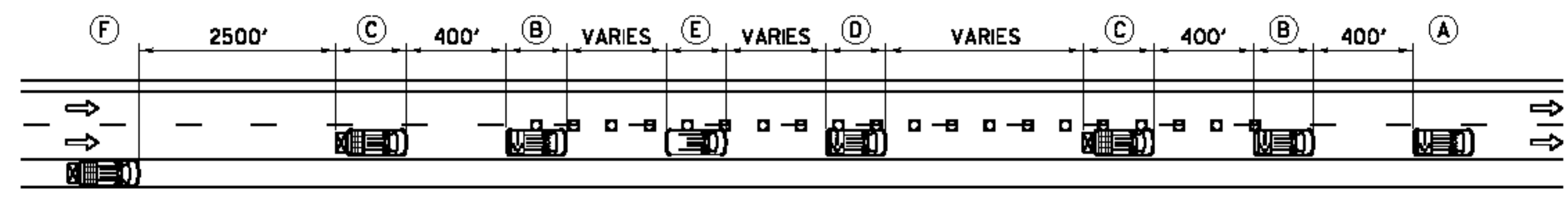
POSTED SPEED (MPH)	TAPER LENGTHS (FT)		TANGENT W=12 FT (L/2)	BARRIER FLARE RATE (MINIMUM)	MINIMUM BUFFER SPACE LENGTH (FT)	MAXIMUM CHANNELIZING DEVICE SPACING (FT)	
	SHOULDER W=10 FT (L/3)	MERGING 12 FT LANE (L)				TAPER (S)	TANGENT (2S)
≤ 40	90	320	160	1:9	305	40	80
45	150	540	270	1:9	360	45	90
50	170	600	300	1:11	425	50	100
55	185	660	330	1:13	495	55	110
60	200	720	360	1:13	570	60	120
65	215	780	390	1:13	645	65	130



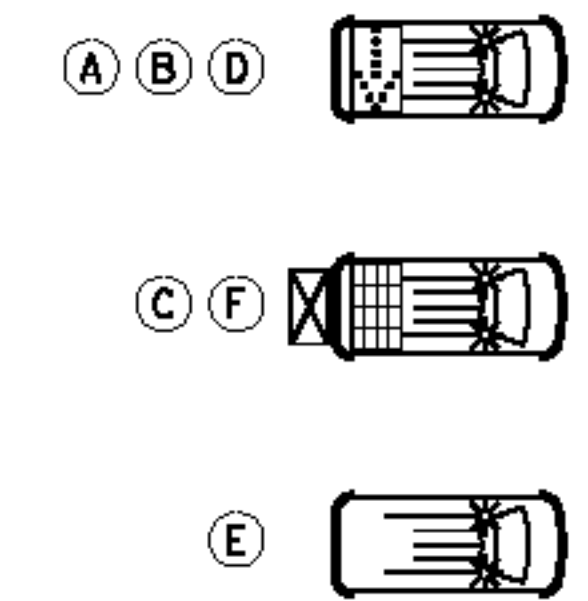
**APPROACH SIGNING FOR RAMPS**



**EDGE LINE MARKING OPERATION**



**EDGE LINE MARKING OPERATION**



**OPERATION VEHICLE SYMBOLOGY**

**LEGEND**

- FLOW OF TRAFFIC
- RETROREFLECTIVE PLASTIC DRUM
- CONE
- ⊠ FLASHING ARROW PANEL
- ▤ CHANGEABLE MESSAGE BOARD
- ⊞ TRUCK MOUNTED ATTENUATOR
- ⊞ PAVEMENT MARKING OPERATION VEHICLE
- (A) PAVEMENT MARKING VEHICLE WITH FLASHING ARROW PANEL
- (B) CONE TRUCK WITH FLASHING ARROW PANEL
- (C) PROTECTION VEHICLE WITH CHANGEABLE MESSAGE SIGN AND TRUCK MOUNTED ATTENUATOR
- (D) SUPPLY TRUCK WITH FLASHING ARROW PANEL AND MOUNTED SIGN (OPTIONAL)
- (E) UNIFORMED TRAFFIC OFFICER (OPTIONAL)
- (F) ADVANCED WARNING VEHICLE WITH CHANGEABLE MESSAGE SIGN AND TRUCK MOUNTED ATTENUATOR

**GENERAL NOTES:**

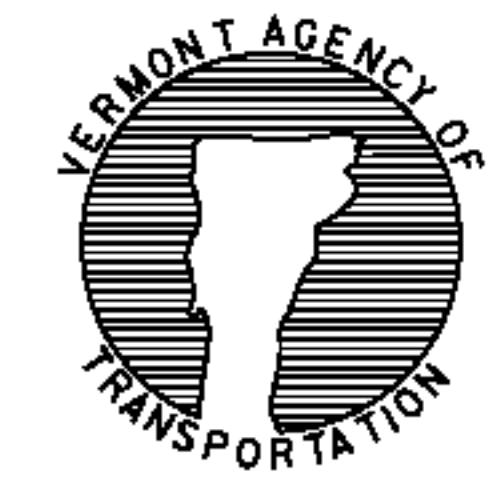
1. ALL WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS, IN ADDITION TO VEHICLE HAZARD LIGHTS.
2. CONE SPACING SHALL BE TWICE THE SPEED LIMIT, IN FEET.
3. THE SECOND CONE TRUCK SHALL NOT RETRIEVE CONES UNTIL THE NEW PAVEMENT MARKINGS ARE DRY.
4. THE NUMBER OF CHANNELIZING DEVICES AND OTHER TRAFFIC CONTROL DEVICES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE ACTUAL NUMBER REQUIRED ARE TO BE DETERMINED BASED ON INDIVIDUAL DETOUR CONDITIONS (TAPERS, SPEED LIMITS, LENGTH OF DETOUR, CURVE, ETC.). WARNING LIGHTS SHALL NOT BE USED ON CHANNELIZING DEVICES.
5. ALL DISTANCES ARE DESIRABLE MINIMUMS, FIELD CONDITIONS SHALL CONTROL THE ACTUAL PLACEMENT.
6. CONE VEHICLES SHALL HAVE CAGES TO PROTECT THE PERSON PLACING AND RETRIEVING CONES.
7. APPROACH SIGNING IS FOR MAINLINE CLOSURE AT ENTRANCE RAMPS AND EXIT RAMPS AND WHEN THE ADVANCED WARNING VEHICLE IS NOT USED, APPROACH SIGNING SHALL BE USED FOR THE APPROPRIATE LANE CLOSURE. SIGNS SHALL BE ERECTED BEFORE THE START OF ANY WORK AND SHALL BE COVERED UNTIL WORK COMMENCES, DURING PERIODS OF INACTIVITY OR UPON COMPLETION OF THE WORK. EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER.
8. RAMP SIGNING SHALL BE IN PLACE PRIOR TO BEGINNING MAINLINE PAVEMENT MARKING OPERATIONS.
9. MAXIMUM ALLOWABLE LANE CLOSURE IS THREE MILES.

**OTHER STDS. REQUIRED: T-1, T-12, T-23**

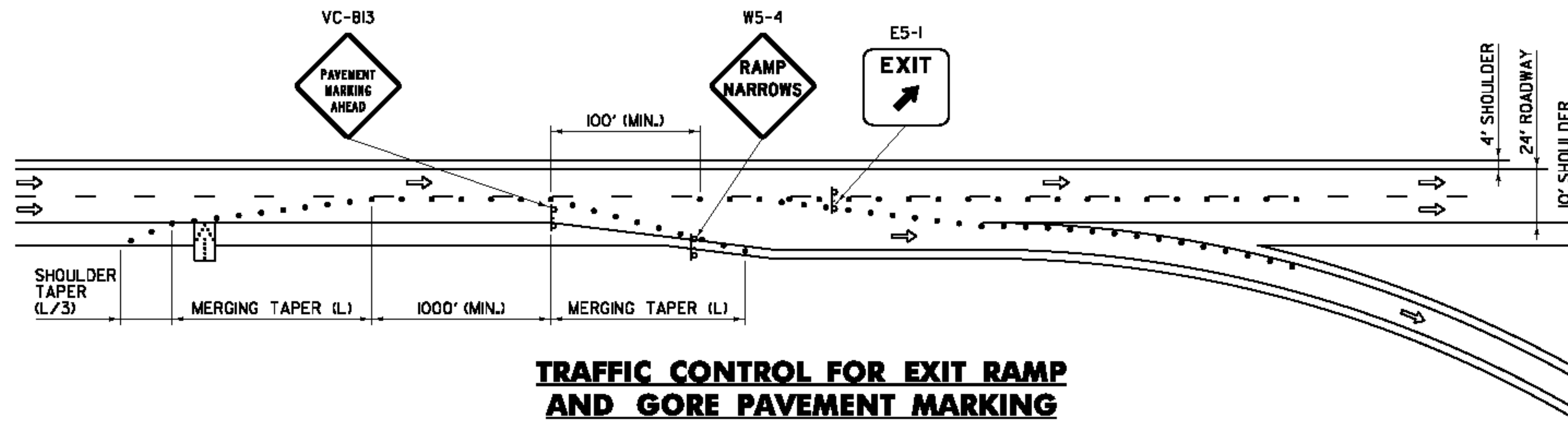
REVISIONS AND CORRECTIONS  
AUG. 6, 2012 - ORIGINAL APPROVAL DATE

APPROVED  
*W.A.C.M.*  
HIGHWAY SAFETY & DESIGN ENGINEER  
*Rudolf F. Schmitt*  
DIRECTOR OF PROGRAM DEVELOPMENT  
*Mark D. Richter*  
FEDERAL HIGHWAY ADMINISTRATION

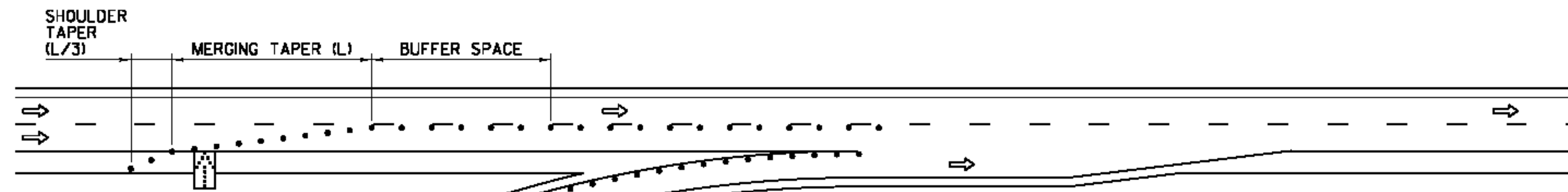
**TRAFFIC CONTROL FOR PAVEMENT MARKING ON DIVIDED HIGHWAY**



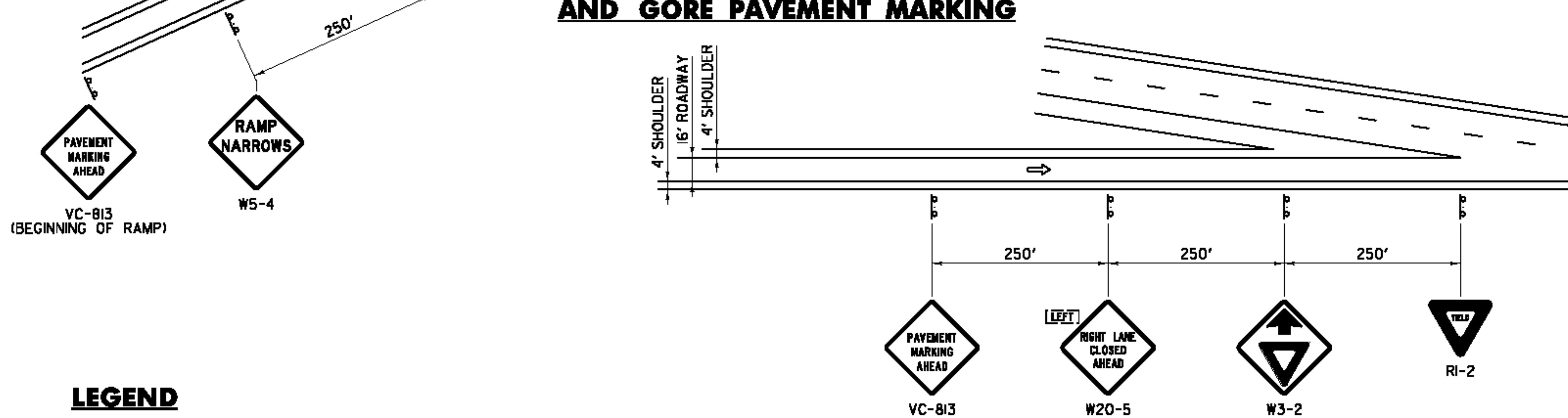
**STANDARD T-22**



**TRAFFIC CONTROL FOR EXIT RAMP AND GORE PAVEMENT MARKING**



**TRAFFIC CONTROL FOR ENTRANCE RAMP AND GORE PAVEMENT MARKING**



**ENTRANCE RAMP SIGNING**

**GENERAL NOTES:**

1. ALL WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS, IN ADDITION TO VEHICLE HAZARD LIGHTS.
2. A UNIFORMED TRAFFIC OFFICER SHALL BE PRESENT DURING ENTRANCE AND EXIT RAMP PAVEMENT MARKING.
3. CONE SPACING SHALL BE TWICE THE SPEED LIMIT, IN FEET.
4. THE NUMBER OF CHANNELIZING DEVICES AND OTHER TRAFFIC CONTROL DEVICES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE ACTUAL NUMBER REQUIRED ARE TO BE DETERMINED BASED ON INDIVIDUAL DETOUR CONDITIONS (TAPERS, SPEED LIMITS, LENGTH OF DETOUR, CURVE, ETC.). WARNING LIGHTS SHALL NOT BE USED ON CHANNELIZING DEVICES.
5. ALL DISTANCES ARE DESIRABLE MINIMUMS. FIELD CONDITIONS SHALL CONTROL THE ACTUAL PLACEMENT.
6. HAND WORK MUST BE PERFORMED WITH A SPOTTER AT ALL TIMES.
7. TRAFFIC CONTROL DEVICES SHALL BE PLACED A MINIMUM OF TWO FEET OUTSIDE OF THE AREA BEING PAINTED ON ENTRANCE AND EXIT RAMPS.
8. AT ENTRANCE RAMPS; THE "YIELD" (RI-2) SIGN SHALL BE PLACED AT THE THEORETICAL GORE TO PROVIDE ADEQUATE SIGHT DISTANCE OF ONCOMING MAINLINE VEHICULAR TRAFFIC.

**OTHER STDS. REQUIRED: T-1, T-12, T-22, T-28, T-31**

**LEGEND**

- ⇒ FLOW OF TRAFFIC
- RETROREFLECTIVE PLASTIC DRUM
- ▭ FLASHING ARROW PANEL

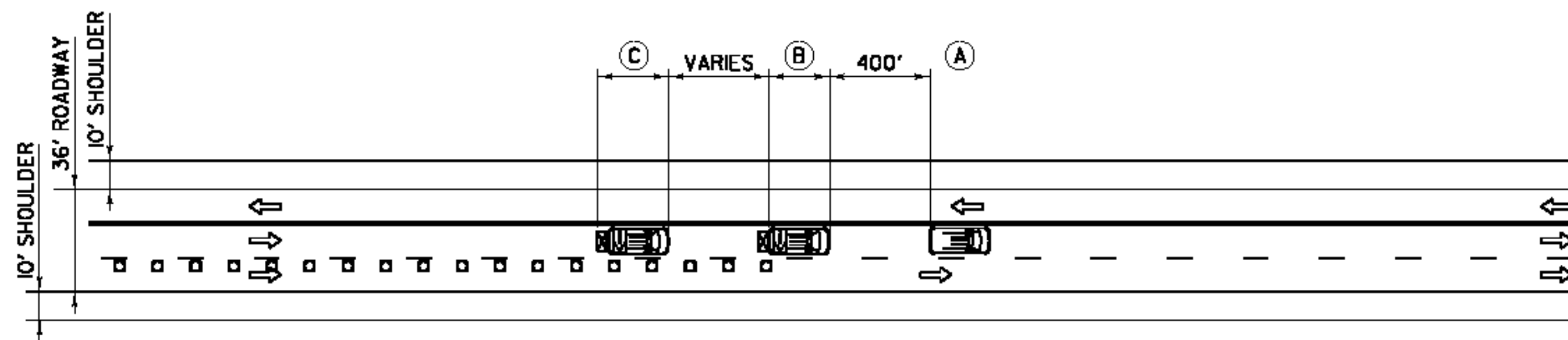
REVISIONS AND CORRECTIONS  
AUG. 6, 2012 - ORIGINAL APPROVAL DATE

APPROVED  
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*[Signature]*  
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*[Signature]*  
MARK D. RICHTER  
FEDERAL HIGHWAY ADMINISTRATION

**TRAFFIC CONTROL FOR PAVEMENT MARKING ON DIVIDED HIGHWAY**



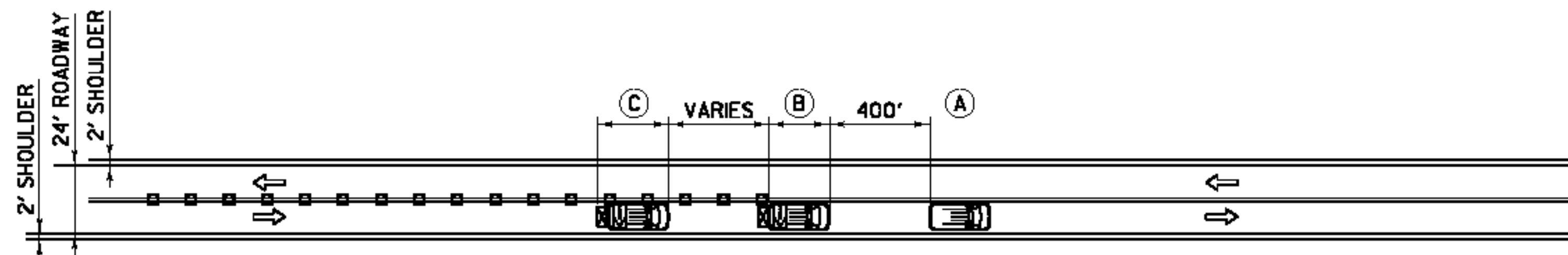
**STANDARD T-23**



**PAVEMENT MARKING OPERATION  
ON MULTI-LANE ROAD**

**NOTES:**

1. PAVEMENT MARKING OPERATION VEHICLE (C) SHOULD TRAVEL AT A VARYING DISTANCE FROM THE PAVEMENT MARKING OPERATION SO AS TO PROVIDE ADEQUATE SIGHT DISTANCE FOR TRAFFIC APPROACHING FROM THE REAR.
2. ON HIGH SPEED ROADWAYS, A THIRD PROTECTION VEHICLE SHOULD BE USED - THE FIRST PROTECTION VEHICLE ON THE SHOULDER (IF POSSIBLE), THE SECOND PROTECTION VEHICLE IN THE CLOSED LANE, AND THE THIRD PROTECTION VEHICLE IN THE CLOSED LANE.
3. ARROW PANELS SHALL BE AS A MINIMUM TYPE B, 60 INCHES BY 30 INCHES (MUTCD FIGURE 6F-6, SECTION 6F.6I).
4. WORK SHOULD BE PERFORMED DURING OFF-PEAK TRAFFIC HOURS WHEN PRACTICAL.



**PAVEMENT MARKING OPERATION  
ON TWO LANE ROAD**

**NOTES:**

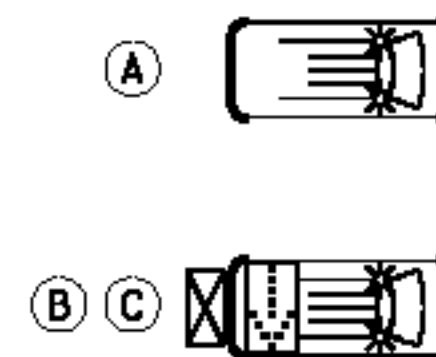
1. ALL PAVEMENT MARKING VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.
2. THE DISTANCE BETWEEN THE WORK AND PROTECTION VEHICLES MAY VARY ACCORDING TO TERRAIN AND OTHER FACTORS. PROTECTION VEHICLES ARE USED TO WARN TRAFFIC OF THE OPERATION AHEAD.
3. UNIFORMED TRAFFIC OFFICERS MAY BE USED TO CONTROL TRAFFIC AT INTERSECTIONS.
4. VEHICLE MOUNTED SIGNS SHALL BE MOUNTED WITH BOTTOM OF THE SIGN AT A MINIMUM HEIGHT OF ONE FOOT ABOVE THE PAVEMENT. SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
5. ARROW PANELS ARE OPTIONAL; WHEN USED ARROW PANELS SHALL BE DISPLAYED IN CAUTION MODE.

- FLOW OF TRAFFIC
- ▣ FLASHING ARROW PANEL
- ⊠ TRUCK MOUNTED ATTENUATOR (TMA)
- ◻ CONE
- 🚚 PAVEMENT MARKING OPERATION VEHICLE
- Ⓐ PAVEMENT MARKING VEHICLE WITH FLASHING ARROW PANEL, "WET PAINT WITH LEFT ARROW" VC-886L, "WET PAINT WITH RIGHT ARROW" VC-886R SIGNS.
- Ⓑ PROTECTION VEHICLE WITH CONE CAPABILITIES AND TMA.
- Ⓒ PROTECTION VEHICLE WITH FLASHING ARROW PANEL, TMA, "WET PAINT" VC-885, "WET PAINT WITH LEFT ARROW" VC-886L, "WET PAINT WITH RIGHT ARROW" VC-886R SIGNS.

**GENERAL NOTES:**

1. ALL VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS IN ADDITION TO VEHICLE HAZARD LIGHTS.
2. PROTECTION VEHICLE SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
3. SIGNS LOCATED ON PAVEMENT MARKING OPERATION VEHICLES SHALL BE PLACED SO AS NOT TO OBSCURE OTHER SIGNS OR FLASHING ARROW PANELS.
4. REPEAT "WET PAINT" (VC-885) SIGN AS NEEDED AT SIDE ROADS
5. ALL DISTANCES ARE DESIRABLE MINIMUMS. FIELD CONDITIONS SHALL CONTROL THE ACTUAL SPACING OF THE VEHICLES.
6. CONE SPACING SHALL BE ADEQUATE SO THAT DRIVERS CAN ALWAYS SEE ONE CONE.

**OTHER STDS. REQUIRED: T-1, T-29**



**OPERATION VEHICLE  
SYMBOLOLOGY**

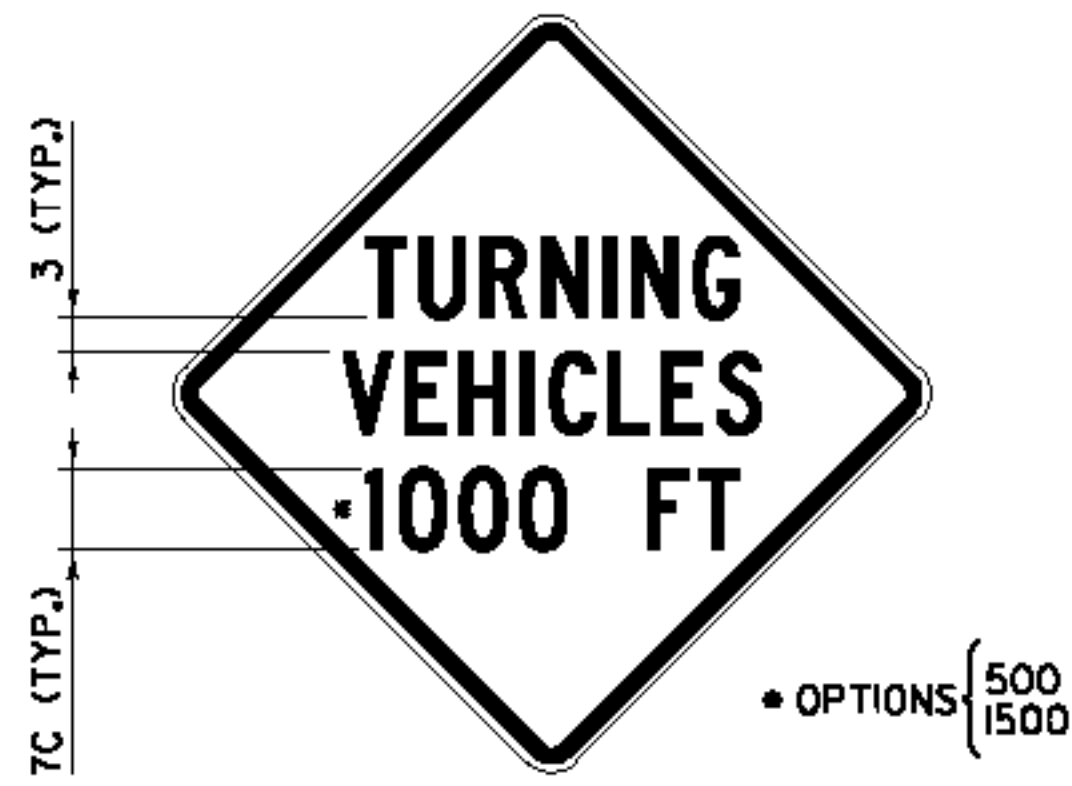
REVISIONS AND CORRECTIONS  
AUG. 6, 2012 - ORIGINAL APPROVAL DATE

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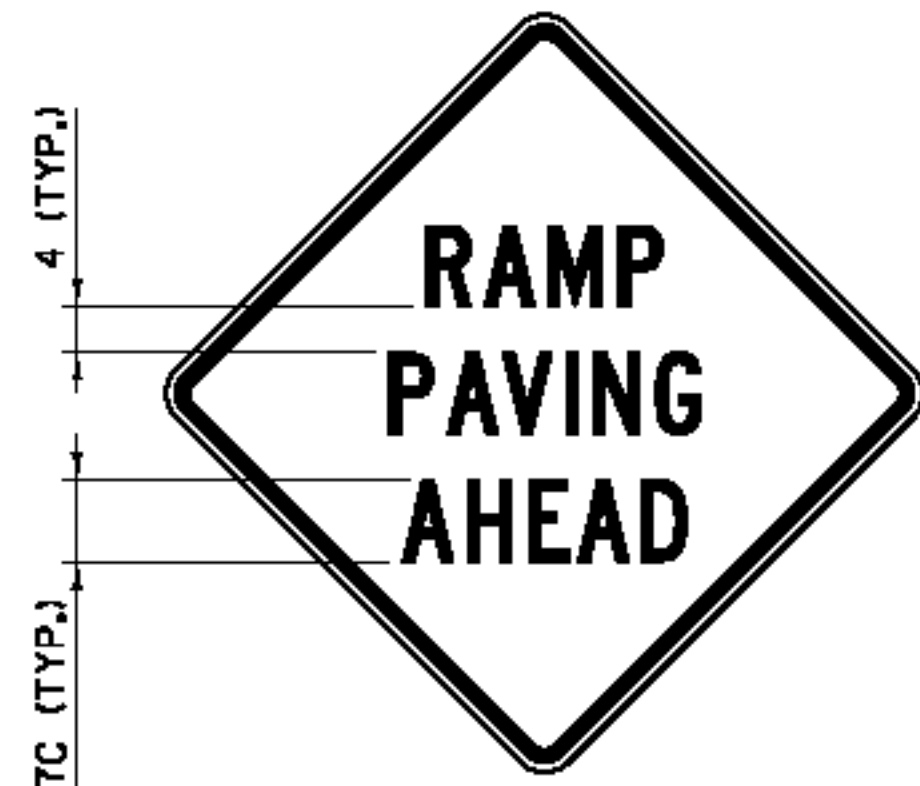
**TRAFFIC CONTROL FOR  
MAINTENANCE PAVEMENT  
MARKING OPERATION**



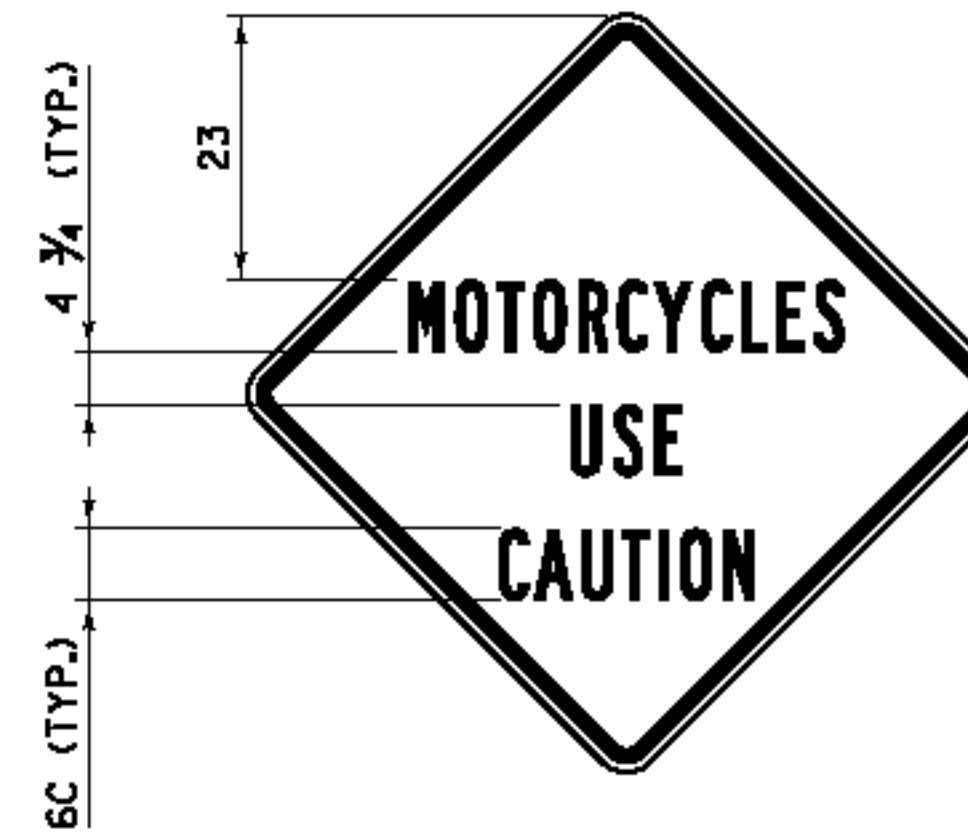
**STANDARD  
T-24**



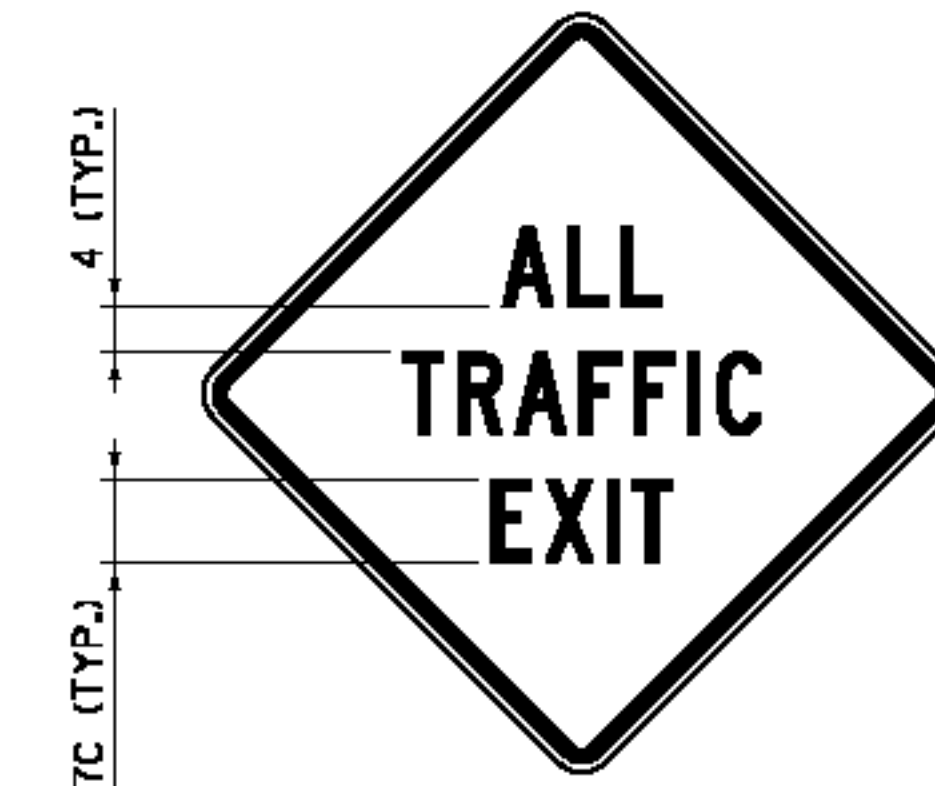
**VC-001**



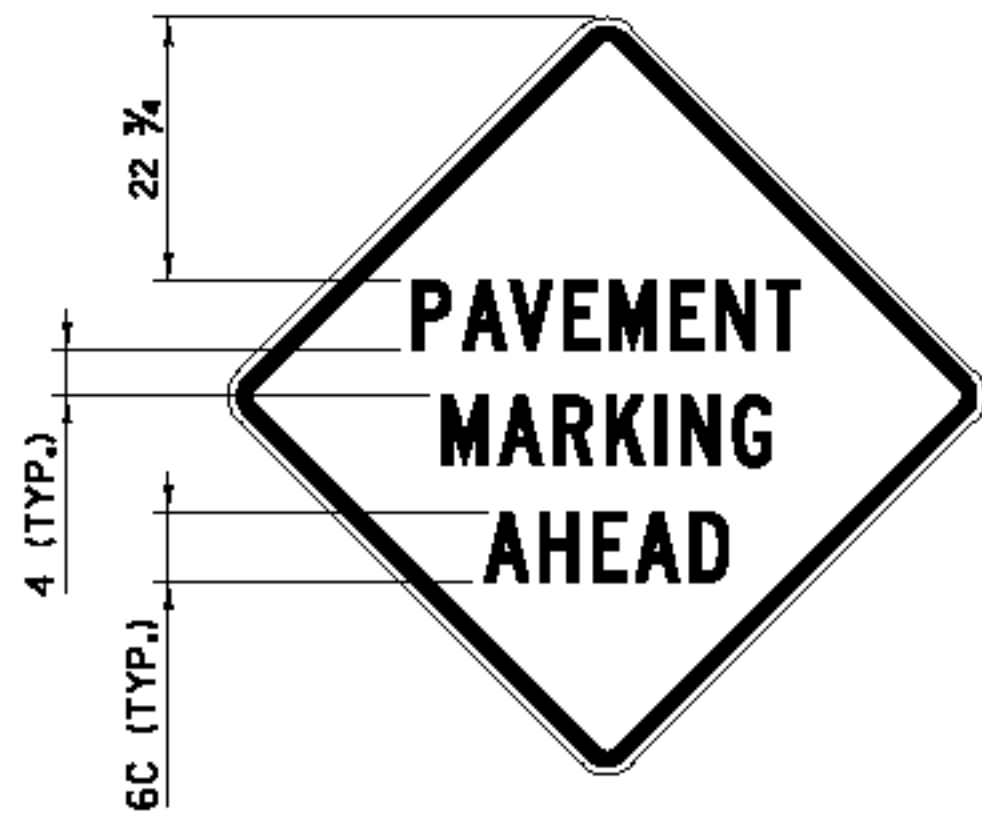
**VC-003**



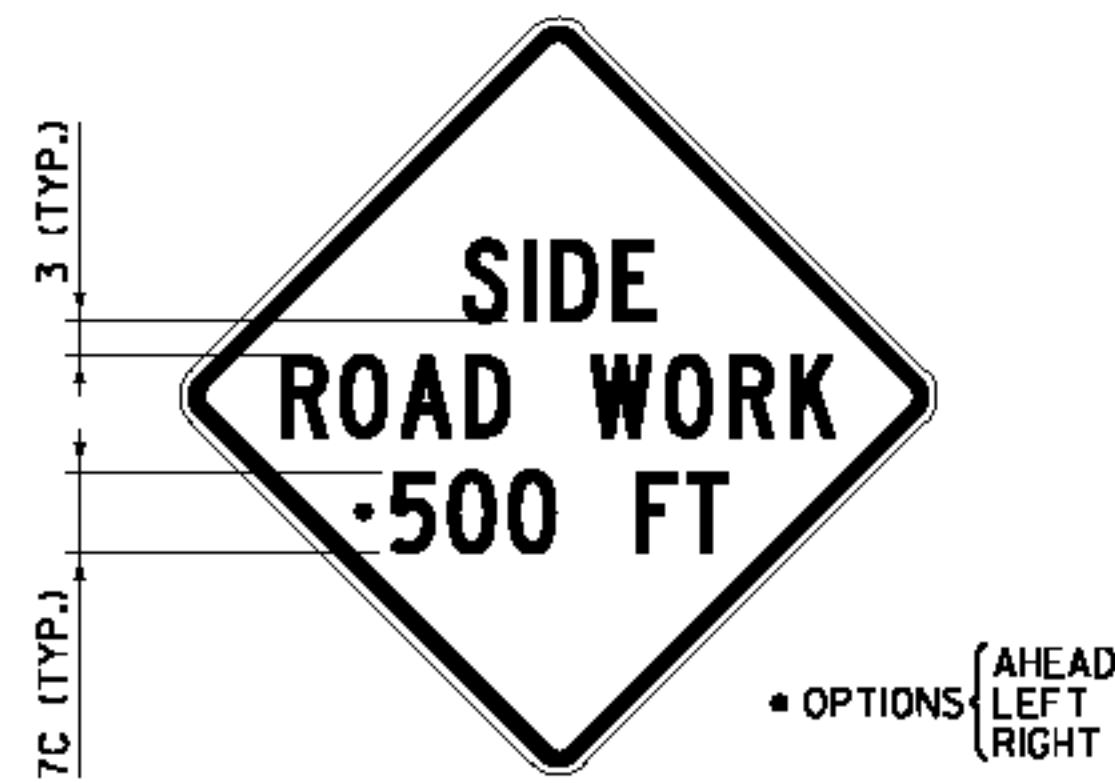
**VC-004**



**VC-008**



**VC-813**



**VC-869**



**VC-874**

**GENERAL NOTES:**

1. COLORS FOR SIGNS SHALL BE BLACK LEGEND AND BORDER ON FLUORESCENT ORANGE BACKGROUND.
2. CONSTRUCTION SIGNS SHALL BE 48 INCH BY 48 INCH. IF SOLID SUBSTRATE SIGNS ARE USED, SIGNS SHALL HAVE CORNERS ROUNDED TO A THREE INCH RADIUS.
3. SIGNS SHALL HAVE 1 1/4 INCH WIDE BORDERS THAT ARE INDENTED 3/4 INCH FROM THE EDGE OF THE SIGN.
4. SIGNS SHALL HAVE THE LEGEND CENTERED HORIZONTALLY AND VERTICALLY ON THE SIGN UNLESS OTHERWISE INDICATED.
5. ALL DIMENSIONS SHOWN IN INCHES.

**OTHER STDS. REQUIRED: T-1**

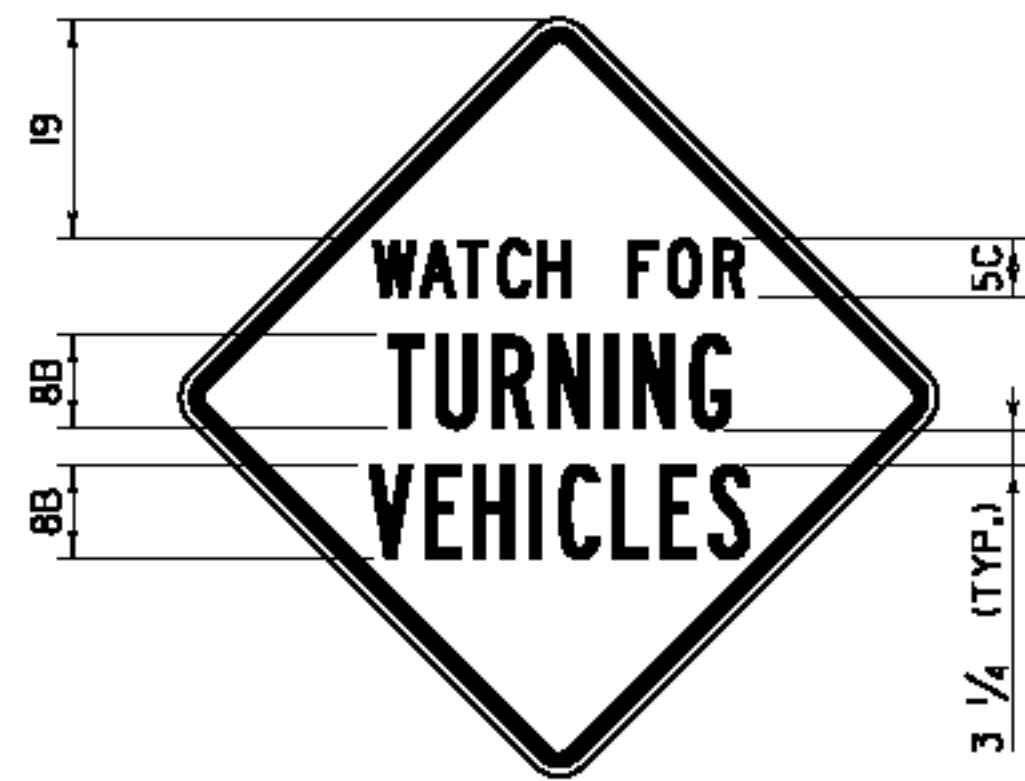
REVISIONS AND CORRECTIONS  
AUG. 6, 2012 - ORIGINAL APPROVAL DATE

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**CONSTRUCTION SIGN  
DETAILS**



**STANDARD  
T-28**



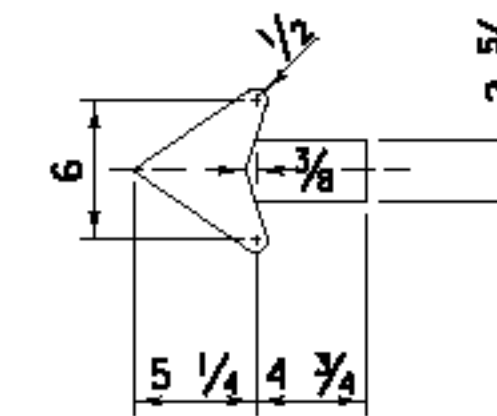
**VC-883**



**VC-885**



**VC-886L**



**VC-886R**

**NOTES:**

1. SIGNS SHALL BE 24 INCH BY 24 INCH. IF SOLID SUBSTRATE SIGNS ARE USED, SIGNS SHALL HAVE CORNERS ROUNDED TO A 1/2 INCH RADIUS.
2. SIGNS SHALL HAVE 5/8 INCH WIDE BORDERS THAT ARE INDENTED 3/8 INCH FROM THE EDGE OF THE SIGN.



**VC-887**

**GENERAL NOTES:**

1. COLORS FOR SIGNS SHALL BE BLACK LEGEND AND BORDER ON FLUORESCENT ORANGE BACKGROUND.
2. CONSTRUCTION SIGNS SHALL BE 48 INCH BY 48 INCH UNLESS OTHERWISE NOTED. IF SOLID SUBSTRATE SIGNS ARE USED, SIGNS SHALL HAVE CORNERS ROUNDED TO A THREE INCH RADIUS UNLESS OTHERWISE NOTED.
3. SIGNS SHALL HAVE 1 1/4 INCH WIDE BORDERS THAT ARE INDENTED 3/4 INCH FROM THE EDGE OF THE SIGN UNLESS OTHERWISE NOTED.
4. SIGNS SHALL HAVE THE LEGEND CENTERED HORIZONTALLY AND VERTICALLY ON THE SIGN UNLESS OTHERWISE INDICATED.
5. ALL DIMENSIONS SHOWN IN INCHES.

**OTHER STDS. REQUIRED: T-1**

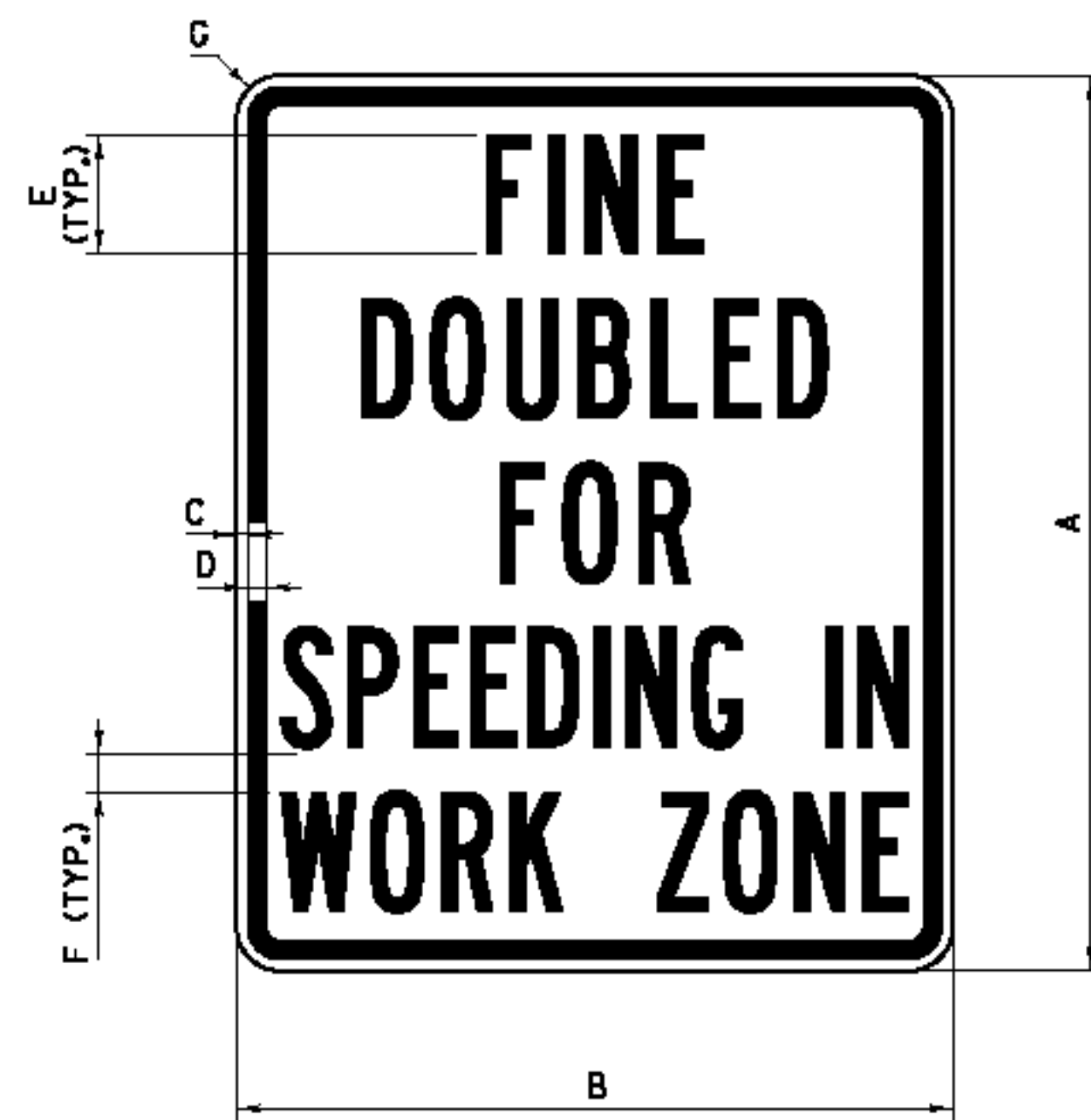
REVISIONS AND CORRECTIONS  
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HIGHWAY SAFETY & DESIGN ENGINEER  
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DIRECTOR OF PROGRAM DEVELOPMENT  
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Mark D. Richter  
FEDERAL HIGHWAY ADMINISTRATION

**CONSTRUCTION SIGN  
DETAILS**



**STANDARD  
T-29**

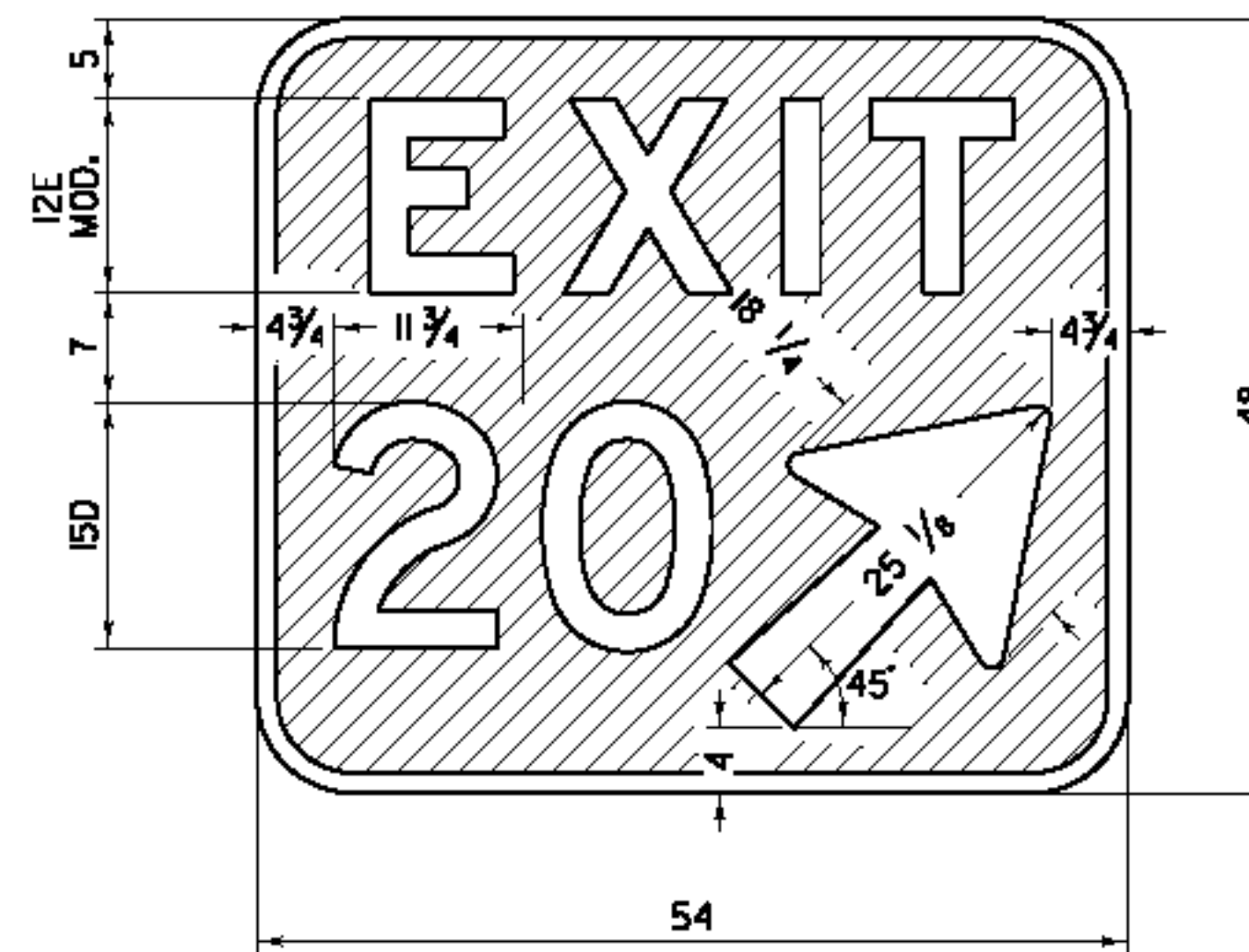


**VR-355**

SIGN	DIMENSIONS						
	A	B	C	D	E	F	G
STANDARD	36	30	1/2	3/4	4C	2 1/4	1 7/8
EXPRESSWAY/ FREEWAY	60	48	3/4	1 1/4	8B	3	3

**NOTES:**

- "SPEEDING IN" AND "WORK ZONE" SHALL EACH HAVE A SPECIFIED WIDTH OF 26 INCHES FOR STANDARD AND 42 INCHES FOR EXPRESSWAY/FREEWAY.
- THE SIGN SHALL HAVE BLACK LEGEND AND BORDER ON A WHITE BACKGROUND WITH RETROREFLECTIVE SHEETING EQUAL TO OR EXCEEDING "AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS" (AASHTO) M 268 ["AMERICAN SOCIETY FOR TESTING AND MATERIALS" (ASTM) D 4956] TYPE III.
- LEGEND SHALL BE CENTERED HORIZONTALLY AND VERTICALLY.



**VC5-1A**

**NOTES:**

- THE SIGN SHALL BE WHITE RETROREFLECTIVE LEGEND ON A GREEN RETROREFLECTIVE BACKGROUND, BOTH SHALL HAVE RETROREFLECTIVE SHEETING EQUAL TO OR EXCEEDING "AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS" (AASHTO) M 268 ["AMERICAN SOCIETY FOR TESTING AND MATERIALS" (ASTM) D 4956] TYPE III.
- CORNERS SHALL BE ROUNDED TO A SIX INCH RADIUS.
- THE SIGN SHALL HAVE A 1/4 INCH WIDE BORDER ALONG THE EDGE OF THE SIGN.
- EXIT NUMBER SHALL BE AS PER PLANS, OPTICALLY SPACED.
- "EXIT" SHALL BE CENTERED HORIZONTALLY.

**GENERAL NOTES:**

1. ALL DIMENSIONS IN INCHES.

**OTHER STDS. REQUIRED: T-1**

REVISIONS AND CORRECTIONS  
AUG. 6, 2012 - ORIGINAL APPROVAL DATE

APPROVED  
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**CONSTRUCTION SIGN  
DETAILS**



**STANDARD  
T-31**