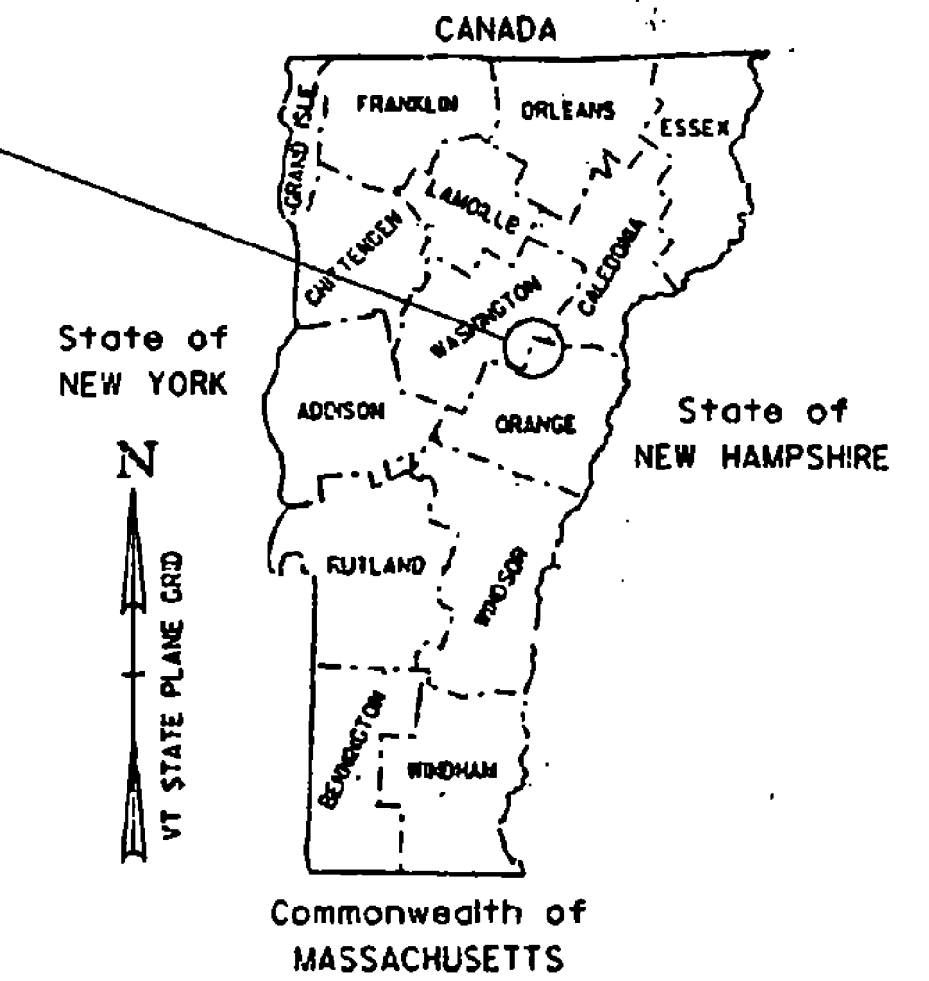


STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
COUNTIES OF WASHINGTON, ORANGE
TOWNS OF NORTHFIELD, BERLIN & WILLIAMSTOWN

WILLIAMSTOWN STP 9454
NORTHFIELD-BERLIN STP 9467



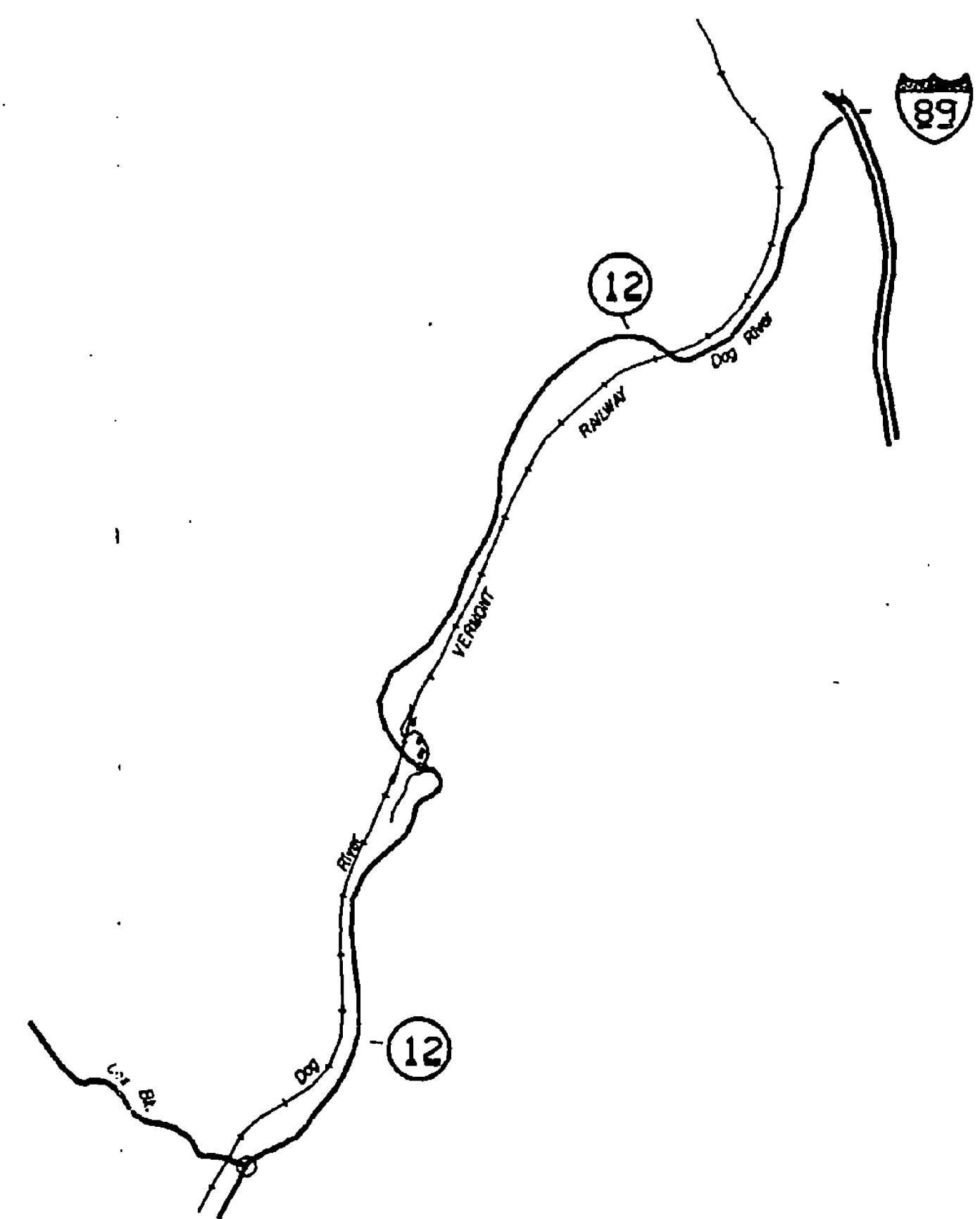
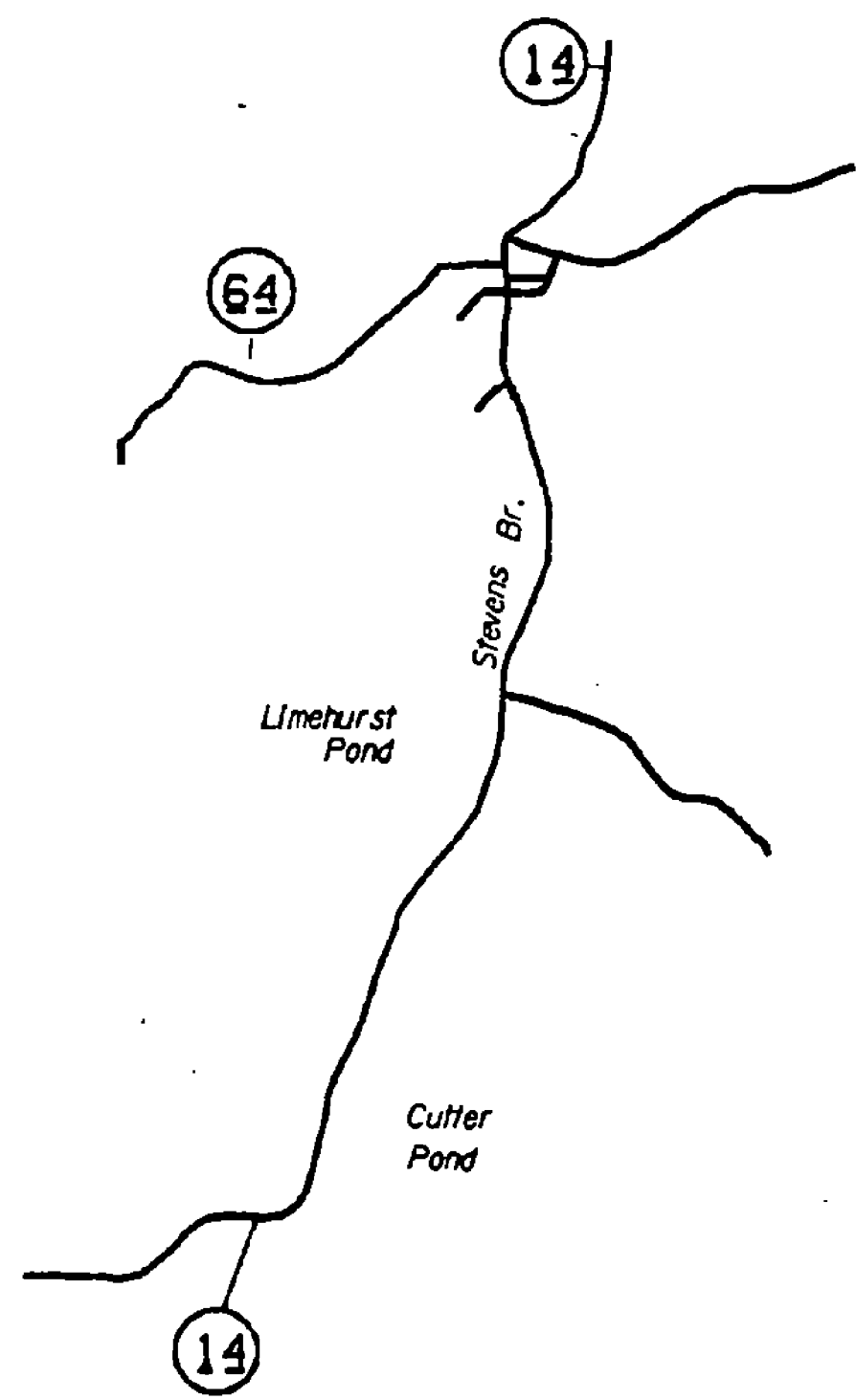
INDEX OF SHEETS
SEE SHEET 2

CONTRACT PLANS
THESE PLANS DO NOT REFLECT
CHANGES MADE ON THE PROJECT.

WILLIAMSTOWN
STP SIGN 9454
VT. ROUTE 14
SEE SHEET 4

NORTHFIELD-BERLIN
STP SIGN 9467
VT. ROUTE 12
SEE SHEET 19

Date JAN 16 1997
W.S. Safety Marking Corp
President
Secretary of Transportation's Signature



Date _____
Signature _____
Title _____
Secretary of Transportation's Signature _____

CONVENTIONAL SIGNS	
COUNTY LINE	---
TOWN LINE	----
LIMITS OF ACCESS	○—○
POINT OF ACCESS	X
FENCE LINE	—x—x—
STONE WALL	○○○○○○○○
TRAVELED WAY	----
GUARD RAIL	—o—o—o—
RAILROAD	
SURVEY LINE	----
CULVERT	----
POWER POLE	⊕
TELEPHONE POLE	⊕
TREES	⊙ *
CONTROL OF ACCESS	///
PROPERTY LINE	----
R.O.W. TAKING LINE	SR
SLOPE RIGHTS	○—△
TOP OF CUT	△—△
TOE OF SLOPE	○—○

DATUM	
VERTICAL	_____
HORIZONTAL	_____

25-JUL-1996

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF CONSTRUCTION AND MAINTENANCE.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1990, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON MARCH 15, 1990 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.
/pave/94k012/pk012.dgn pk012ct.i

APPROVED Frank D. McArthur DATE 1/16/97
DIRECTOR OF CONSTRUCTION AND MAINTENANCE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT DISTRICT 6 STPG SIGN 604
SHEET 1 OF 57 SHEETS

INDEX OF SHEETS

1	COMPOSITE TITLE SHEET
2	COMPOSITE INDEX SHEET
3	COMPOSITE QUANTITY SHEET
3A	SQUARE STEEL SIGN POST DETAIL SHEET
WILLIAMSTOWN STP 9454	
4	TITLE SHEET
5	QUANTITY SHEET
6-8	EXISTING SIGN SHEETS
9-10	NEW SIGN SHEETS
12-15	TRAFFIC SIGN SUMMARY SHEETS
16	BLANK
17	SIGN DETAIL SHEET
18	CONSTRUCTION APPROACH SIGNING SHEET
NORTHFIELD-BERLIN STP 9467	
19	TITLE SHEET
20	QUANTITY SHEET
21-27	EXISTING SIGN SHEET
28-34	NEW SIGN SHEETS
35-51	TRAFFIC SIGN SUMMARY SHEETS
52	INTERSECTION DETAIL SHEET
53-56	SIGN DETAIL SHEETS
57	CONSTRUCTION APPROACH SIGNING

C-1	GRANITE SLOPE EDGING	06-01-94
D-1	REINFORCED CONCRETE PIPE D: I. W/CAST IRON GRATE	06-01-94
E-10	APPROACH SIGNS, MINOR MAINTENANCE	08-08-95
E-10A	APPROACH SIGNS, TYPICAL MOVING	08-08-95
E-100	CONSTRUCTION APPROACH SIGNS	08-08-95
E-101	CONSTRUCTION SIGN DETAILS	08-08-95
E-102	CONSTRUCTION SIGN DETAILS	08-08-95
E-106	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	08-08-95
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08-08-95
E-120	STANDARD SIGN PLACEMENT - EXPRESSWAY & FREEWAY	08-08-95
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-95
E-124	TOWN LINE SIGNS	08-08-95
E-128B	DETAILING VILLAGE SIGNS	08-08-95
E-134	BRIDGE NUMBER PLAQUE	08-08-95
E-136B	STATE ROUTE MARKERS	08-08-95
E-138	MILEMARKER DETAILS STATE & TOWN HIGHWAYS	08-08-95
E-140	REGULATORY SIGN DETAILS	09-20-95
E-141	REGULATORY SIGN DETAILS	09-20-95
E-142	REGULATORY SIGN DETAILS	09-20-95
E-143	REGULATORY SIGN DETAILS	09-20-95
E-150	WARNING SIGN DETAILS	08-08-95
E-151	WARNING SIGN DETAILS	08-08-95
E-152	WARNING SIGN DETAILS	08-08-95
E-160	FLANGED CHANNEL STEEL SIGN POST	08-18-95
E-190	RAILROAD CROSSING SIGNS AND PAVEMENT MARKINGS	08-18-95

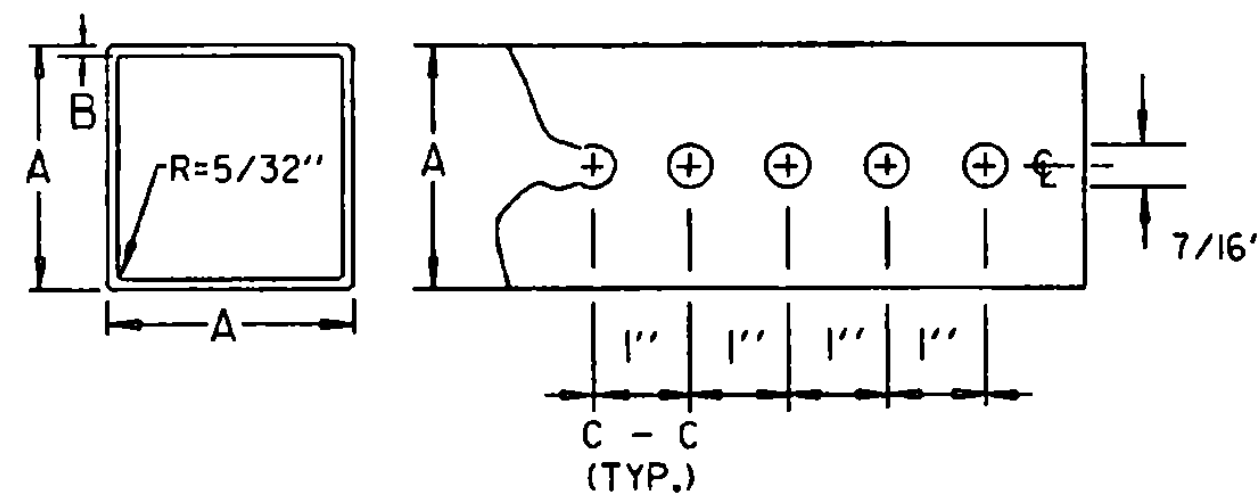
DATUM
 VERTICAL _____
 HORIZONTAL _____

SURVEYED BY _____	DATE _____
DRAWN BY _____	DATE _____
SQUAD LEADER _____	
DESIGN FILE NO. /pave/94k012/pk012.dgn	
IPARM FILE pk012tri.l	DATE PLOTTED 25-JUL-1996
PROJ. NAME DISTRICT 6	
PROJ. NO. STPG SIGN 604	
SHEET 2 OF 57 SHEETS	

GUARDRAIL DEFLECTION CHART
(PER AASHTO - ROADSIDE DESIGN GUIDE - 1988)

TYPE	GR POST SPACING	DEFLECTION
THREE CABLE W/STEEL POSTS	16' - 0"	12'
W/WOODEN POSTS	12' - 6"	12'
W-BEAM W/WEAK POST	12' - 6"	7'
W/STRONG POST	6' - 3"	3'
BOX BEAM	6' - 0"	5'
THRIE BEAM W/WEAK POST	12' - 6"	4'
W/STRONG POST	6' - 3"	2'
LONG-SPAN NESTED W-BEAM GUARDRAIL W/STEEL POSTS	12' - 6" 18' - 9"	3.1' 3.2'

THIS CHART LISTS THE THEORETICAL DEFLECTION DISTANCE UPON IMPACT OF VARIOUS GUARDRAIL WITH DIFFERENT TYPES AND SPACING OF POSTS.



NOTE :

THE POSTS SHALL BE CAREFULLY FORMED OF STEEL WITH A MINIMUM YIELD OF 55,000 PSI, INTO A SIZE AND SHAPE WITH CORNERS INDUCTION WELDED IN SUCH A MANNER THAT NEITHER FLASH NOR WELD SHALL INTERFERE WITH THE TELESCOPING PROPERTIES, NOR DAMAGE THE GALVANIZING.

• THE WALL THICKNESS TOLERANCES SHALL BE +.005 AND -.010 FOR THE 12 GAUGE.

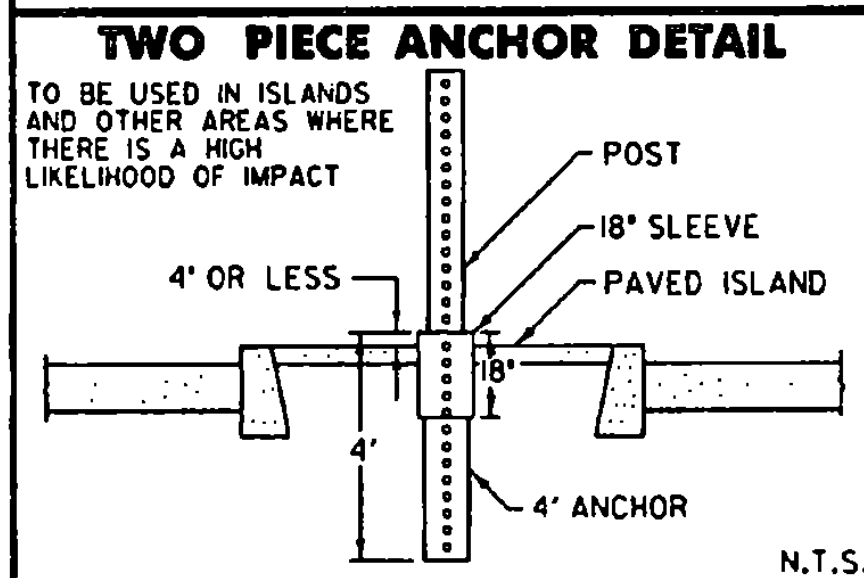
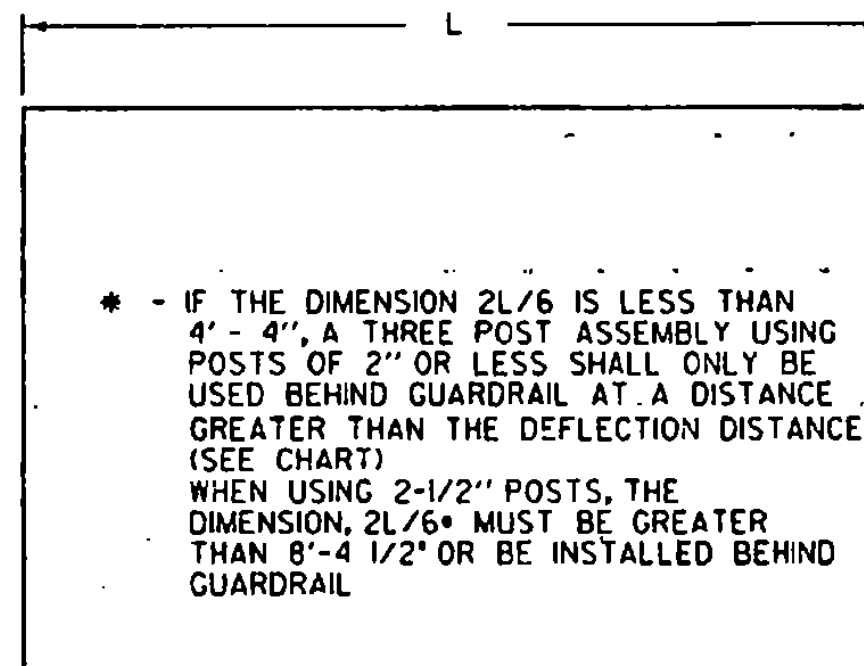
DIMENSION DETAILS AND POST SELECTION CHART

POST SELECTION CHART								
SIGN AREA (FT ²) X H (FT) ≤ SV (SELECTION VALUE)								
POST SIZE	DIMENSIONS			SECTION MODULUS IN ³	ONE POST S _v	TWO POST S _v	THREE POST S _v	NUMBER PERMITTED IN 8' PATH
LBS/FT.	A	•B	GAUGE					
2.30	1-3/4"	.105	12	0.265	73	146	219	TWO
2.65	2"	.105	12	0.372	102	204	306	TWO
3.35	2-1/2"	.105	12	0.642	177	354	531	ONE

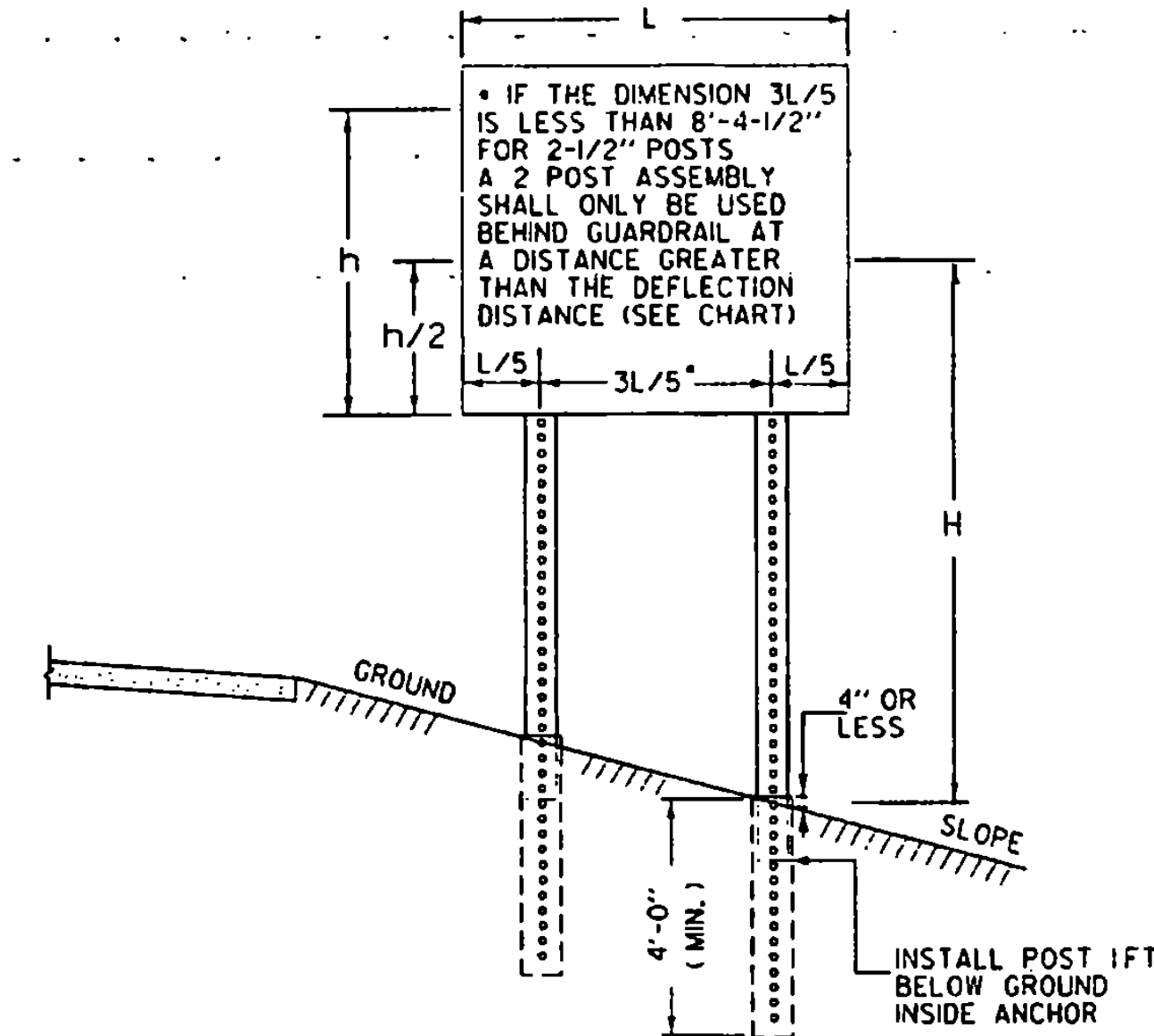
DESIGN CRITERIA:

WIND SPEED = 60 MPH (10 -YEAR MEAN RECURRENCE INTERVAL)
WIND PRESSURE = 14 PSF
STEEL MINIMUM YIELD = 55,000 PSI
ALLOWABLE STRESS = (1.4) 0.60 FY

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A



MULTI-POST INSTALLATIONS



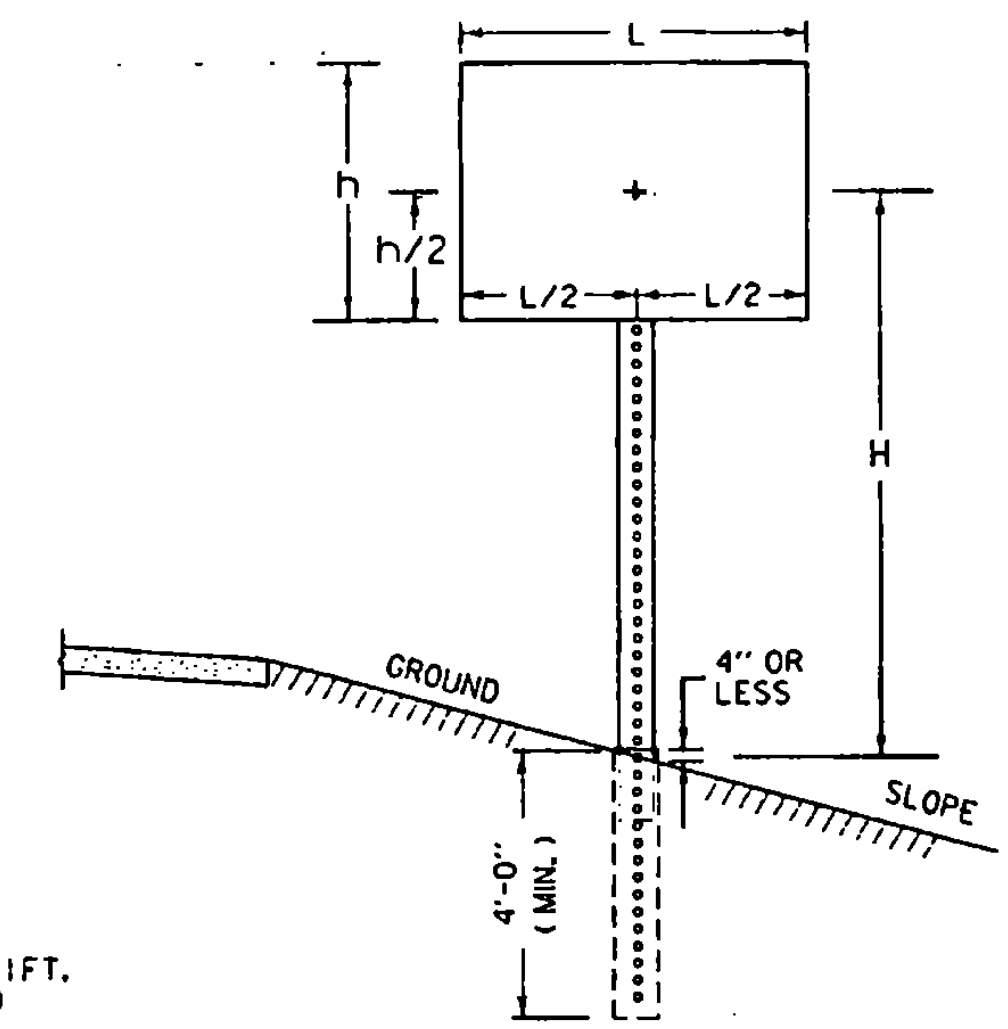
POST SPACING DETAILS

GENERAL NOTES

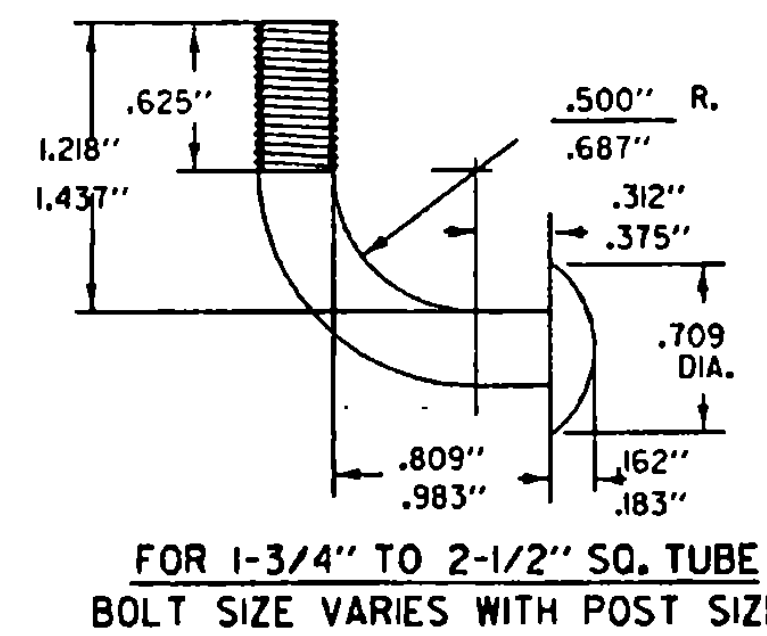
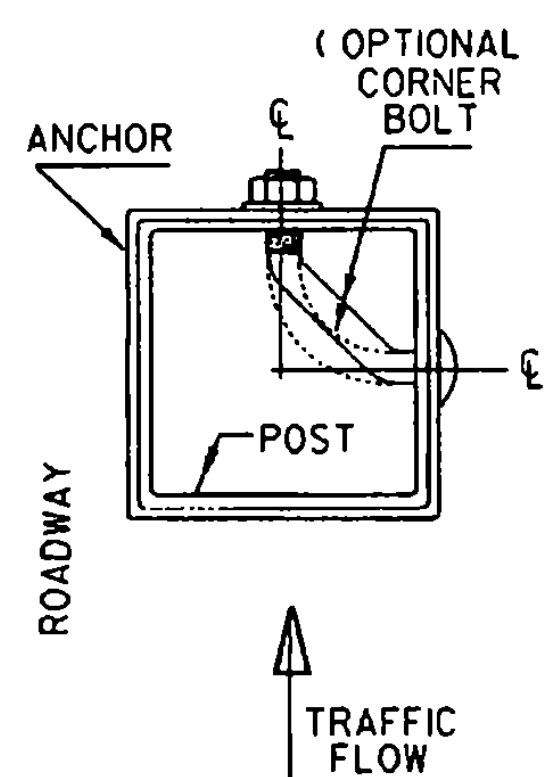
CONSTRUCTION METHODS - POSTS MAY BE DRIVEN OR SET IN A DUG HOLE AND BACKFILLED. IF DRIVEN, A DRIVING CAP SHALL BE USED. THE DUG HOLE INSTALLATION SHALL BE USED IN AREAS OF POOR SOIL CONDITIONS OR AS DIRECTED BY THE RESIDENT ENGINEER. BACKFILL SHALL BE COMPACTED AS DIRECTED BY THE RESIDENT ENGINEER.

SIGN CLEARANCES - HORIZONTAL AND VERTICAL SIGN CLEARANCES SHALL BE SHOWN ON THE PLANS OR THE APPROPRIATE STD. SHEETS.

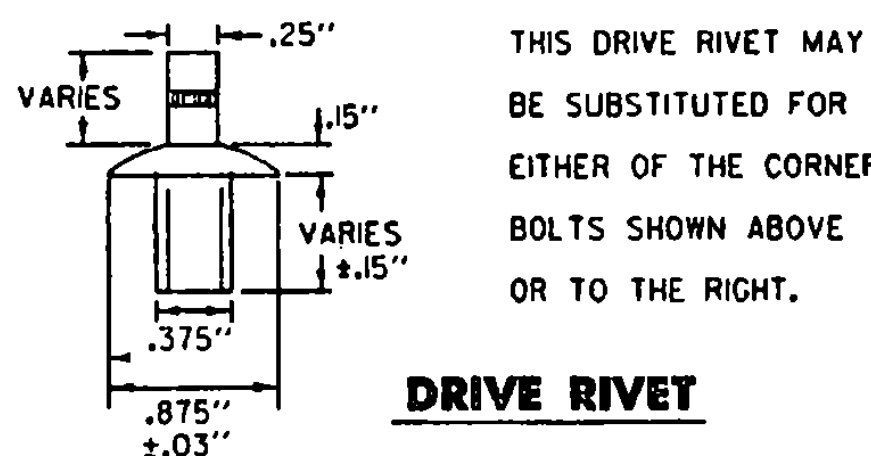
SINGLE POST INSTALLATIONS SHALL BE LIMITED TO A SIGN AREA OF 20 SQ. FT. OR LESS



TOP VIEW OF ANCHOR, POST AND BOLT



FOR 1-3/4" TO 2-1/2" SQ. TUBE BOLT SIZE VARIES WITH POST SIZE

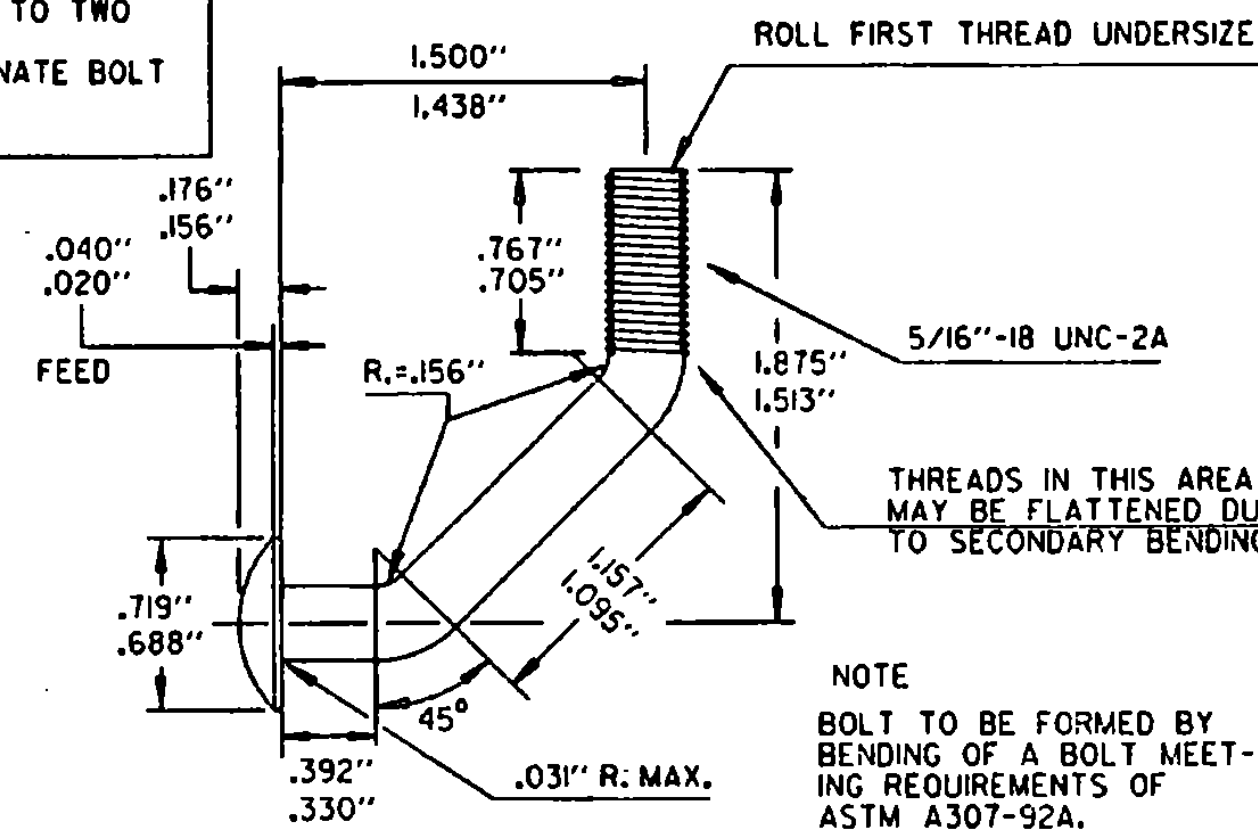


DRIVE RIVET

THIS DRIVE RIVET MAY BE SUBSTITUTED FOR EITHER OF THE CORNER BOLTS SHOWN ABOVE OR TO THE RIGHT.

OPTIONAL CORNER BOLT DETAILS

DOUBLE DIMENSIONS REFER TO TWO ALTERNATE BOLT SIZES.



• DIMENSIONS VARY AS NEEDED FOR POST SIZE USED

CONNECTION DETAIL



POST IS TO BE INSERTED INTO ANCHOR ONE FOOT BELOW GROUND LEVEL. ANCHOR IS TO BE 4'-0" MINIMUM LENGTH WITH NO MORE THAN 4" ABOVE GROUND. ANCHOR IS ONE SIZE (1/4") GREATER THAN THE POST AND ALL ANCHORS ARE TO BE 12 GAGE EXCEPT ANCHORS FOR 2-1/2" POSTS ARE TO BE 7 GAGE. CONNECTION IS TO BE MADE USING THE BOLT PROVIDED WITH THE SIGN SYSTEM (SEE DETAILS LEFT), AT THE TOP HOLE IN THE ANCHOR (APPROXIMATELY 3-1/2" ABOVE GROUND). THREE INCH ANCHORS WHICH DO NOT HAVE HOLES ON 1" CENTERS WILL REQUIRE DRILLING OF 7/16" HOLES FOR CONNECTIONS.

(SEE DETAIL LEFT FOR BOLT PLACEMENT)

SQUARE STEEL SIGN POST DETAIL SHEET

SURVEYED BY	DATE
DRAWN BY	DATE
SQUAD LEADER	
DESIGN FILE NO.	
IPARM FILE	DATE PLOTTED
PROJ. NAME DISTRICT 6	
PROJ. NO. STPG-SIGN (604)	
SHEET 3A OF 57 SHEETS	

STATE OF VERMONT AGENCY OF TRANSPORTATION

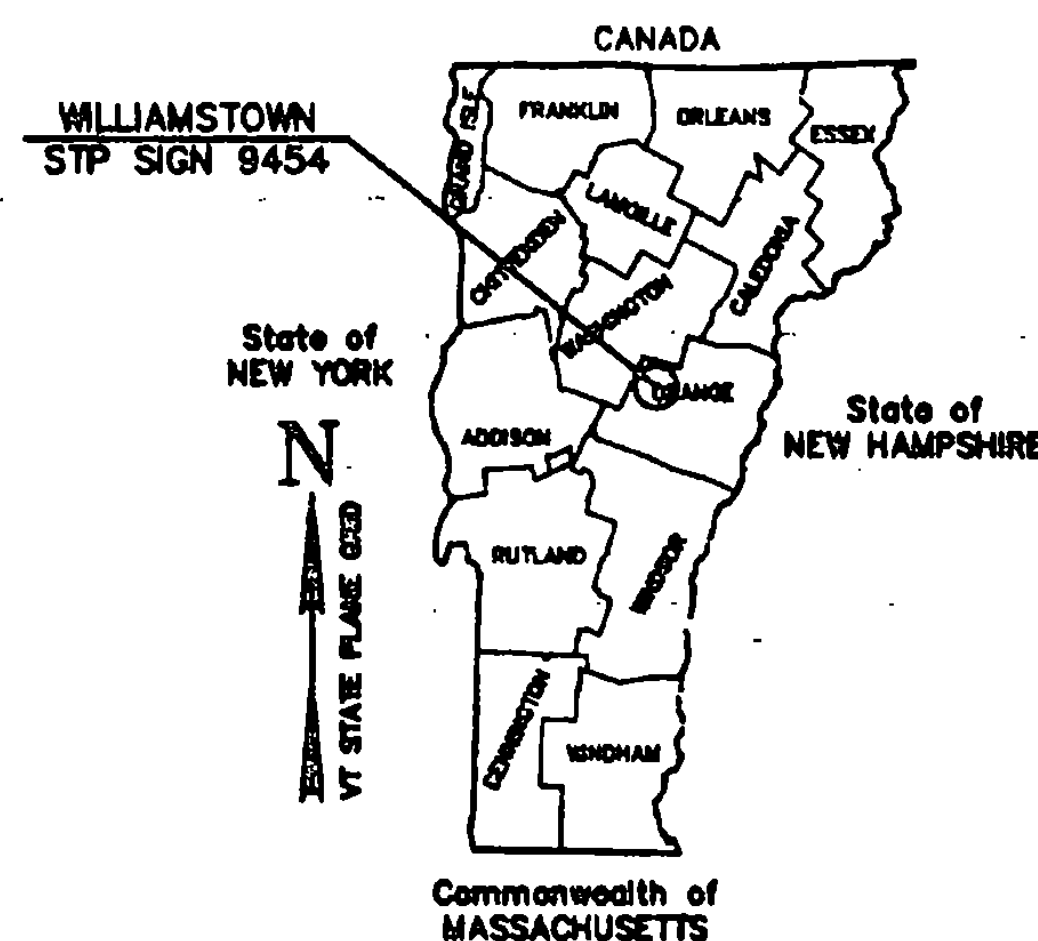


PROPOSED IMPROVEMENT TOWN OF WILLIAMSTOWN COUNTY OF ORANGE VT. RTE. 14

VT. RTE. 14 - BEGINNING AT A POINT APPROXIMATELY 1.200 MILES NORTH OF
THE BROOKFIELD/WILLIAMSTOWN TOWN LINE AND EXTENDING
NORTH 3.250 MILES.

LENGTH OF ROADWAY FEET = 17,160 MILES = 3.250

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES
UPGRADING SIGNS AND SIGN SUPPORTS.



TRAFFIC DATA

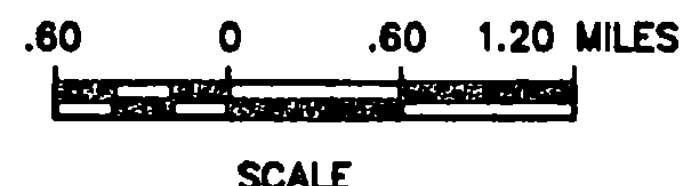
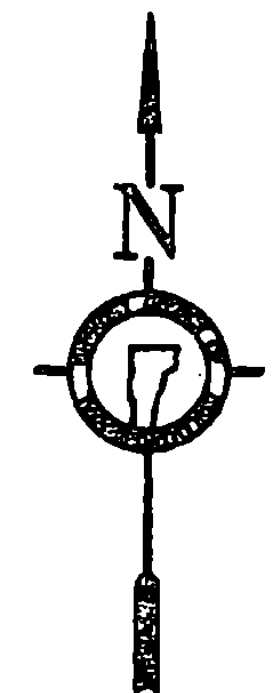
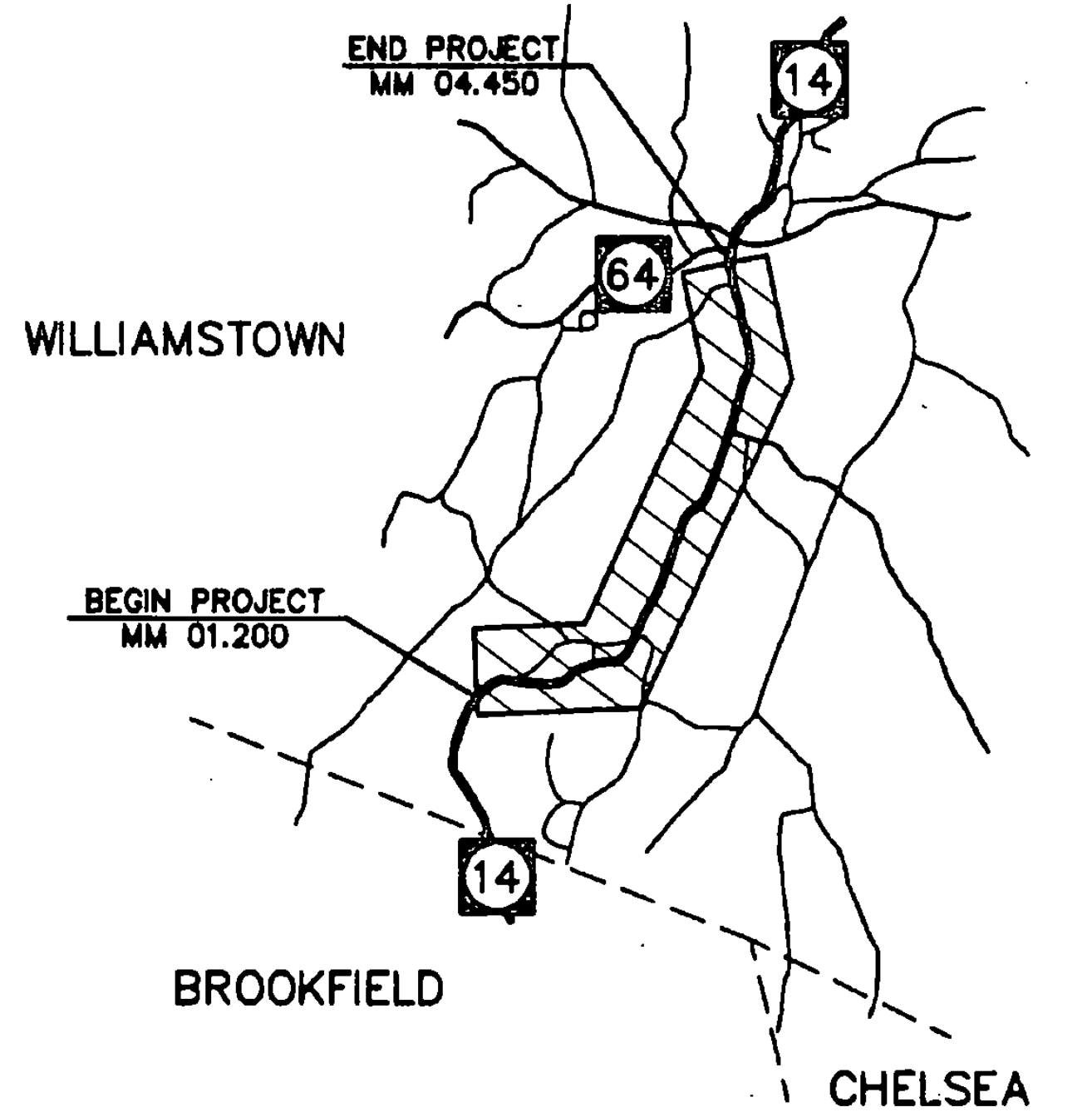
1993 ADT	= 2200
1993 DHV	= 305
2003 ADT	= 2820
2003 DHV	= 365

NUMBER	TITLE	DATE
E-10	TYPICAL MINOR MAINTENANCE APPROACH SIGNS	08/08/95
E-10A	TYPICAL MOVING MAINTENANCE OPERATION	08/08/95
E-100	CONSTRUCTION APPROACH SIGNS	08/08/95
E-101	CONSTRUCTION SIGN DETAILS	08/08/95
E-102	CONSTRUCTION SIGN DETAILS	08/08/95
E-108	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08/08/95
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08/08/95
E-121	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	08/08/95
E-128B	VILLAGE SIGNS N-W	08/08/95
E-134	BRIDGE NUMBER PLAQUE	08/08/95
E-138B	STATE ROUTE MARKER SIGN DETAILS	08/08/95
E-138	MILE MARKER DETAILS STATE AND TOWN HIGHWAYS	08/08/95
E-141	REGULATORY SIGN DETAILS	09/20/95
E-142	REGULATORY SIGN DETAILS	09/20/95
E-143	REGULATORY SIGN DETAILS	09/20/95
E-150	WARNING SIGN DETAILS	08/08/95
E-151	WARNING SIGN DETAILS	08/08/95
E-152	WARNING SIGN DETAILS	08/08/95
E-160	FLANGED CHANNEL STEEL SIGN POST	08/18/95
# C-1	GRANITE SLOPE EDGING	06/01/94
# D-1	REINFORCED CONCRETE PIPE D.I. W/CAST IRON GRATE	06/01/94
# E-120	STANDARD SIGN PLACEMENT - EXPRESSWAY & FREEWAY	08/08/95
# E-124	TOWN LINE SIGNS	08/10/95
# E-140	REGULATORY SIGN DETAILS	09/20/95
# E-190	RAILROAD CROSSING SIGNS AND PAVEMENT MARKINGS	08/18/95

OUT OF ORDER

INDEX TO SHEETS

SHEET TITLE	SHEET NO.
TITLE	1
QUANTITY	2
EXISTING SIGNS	3 - 5
NEW SIGNS	6 - 8
TRAFFIC SIGN SUMMARY	9 - 12
SIGN DETAILS	14
CONSTRUCTION APPROACH SIGNING	15



CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	- - - -
LAIDS OF ACCESS	—○—○—
POINT OF ACCESS	—X—X—
FENCE LINE	—X—X—
STONE WALL	○○○○○○○○○○
TRAVELED WAY	— — — — —
GUARD RAIL	—○—○—○—○—
RAILROAD	—+—+—+—+—
SURVEY LINE	—+—+—+—+—
CULVERT	—+—+—+—+—
POWER POLE	—○—○—○—○—
TELEPHONE POLE	—○—○—○—○—
TREES	—○—○—○—○—
CONTROL OF ACCESS	— — — — —
PROPERTY LINE	—+—+—+—+—
P.O.M. TAPPING LINE	—○—○—○—○—
SLOPE SIGNS	—○—○—○—○—
TOP OF CUT	—○—○—○—○—
TOE OF SLOPE	—○—○—○—○—

DATUM

VERTICAL	N/A
HORIZONTAL	N/A

UNLESS OTHERWISE INDICATED, THE DRAWINGS AND
DETAILS OF THESE PLANS ARE NOT TO SCALE.



Stephen J. Bradette

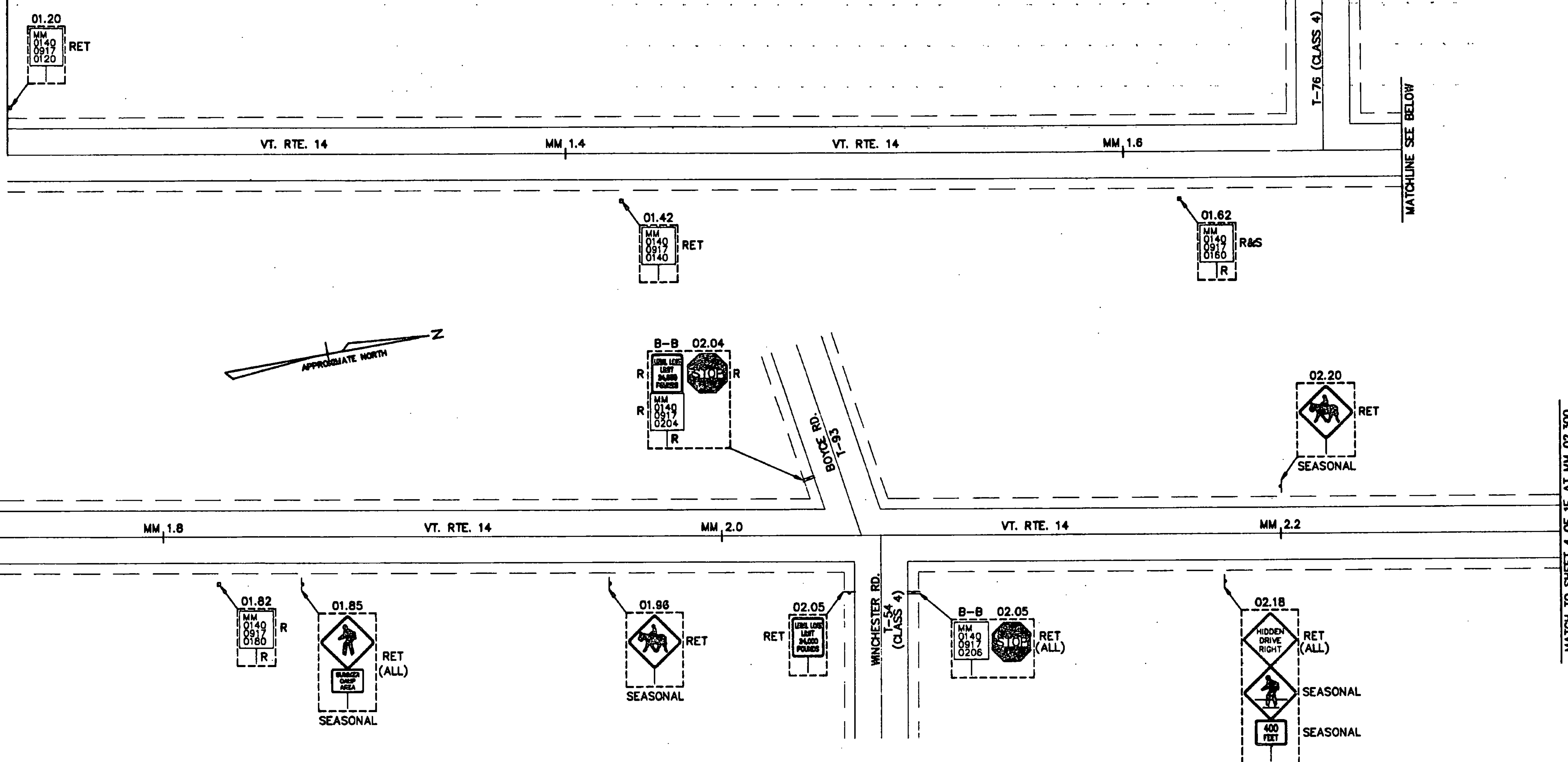
TYLER INTERNATIONAL

APPROVED BY ORDER OF THE STATE TRANSPORTATION BOARD

APPROVED	DATE
DIRECTOR OF CONSTRUCTION & MAINTENANCE	
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	DATE
DIVISION ADMINISTRATOR	
PROJECT WILLIAMSTOWN STP SIGN 9454	
SHEET 1 OF 15 SHEETS	

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY
ADMINISTRATION OR THE CHIEF ENGINEER.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 1980, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON MARCH 18, 1980
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

BEGIN PROJECT
MM 01.200



MATCHLINE SEE ABOVE

MATCH TO SHEET 4 OF 15 AT MM 02.300

NOTE:
MILE MARKER LOCATIONS ARE BASED ON
BRIDGE 53 @ MM 01.154.

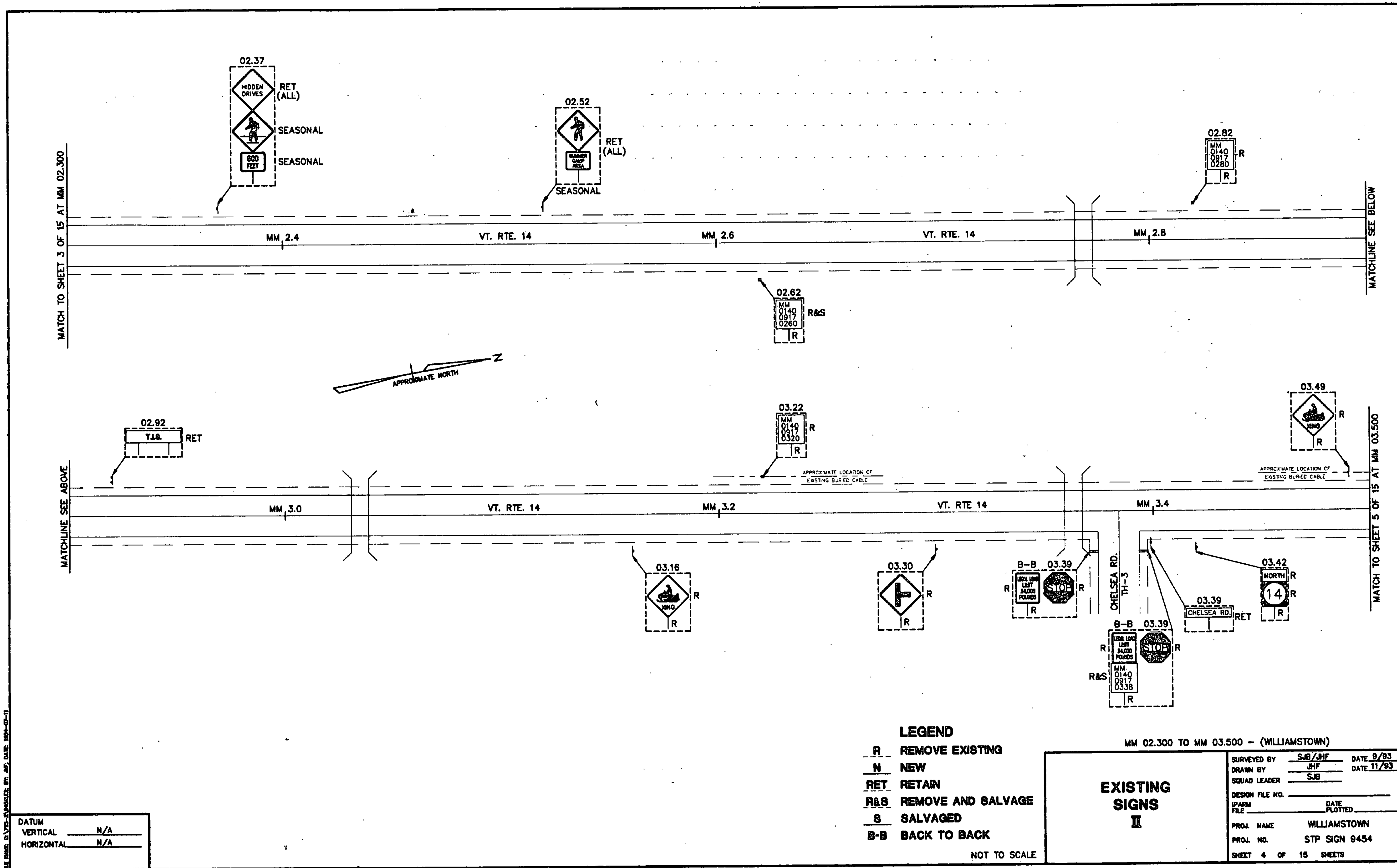
- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

EXISTING SIGNS		MM 01.200 TO MM 02.300 - (WILLIAMSTOWN)	
SURVEYED BY	SJB/JHF	DATE	9/93
DRAWN BY	JHF	DATE	11/93
SQUAD LEADER	SJB		
DESIGN FILE NO.			
PARS FILE		DATE PLOTTED	
PROJ. NAME	WILLIAMSTOWN		
PROJ. NO.	STP SIGN 9454		
SHEET 3 OF 15 SHEETS			

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

NOT TO SCALE

FILE ENG. & VTS. PARALLEL BY: JHF DATE: 1993-07-11



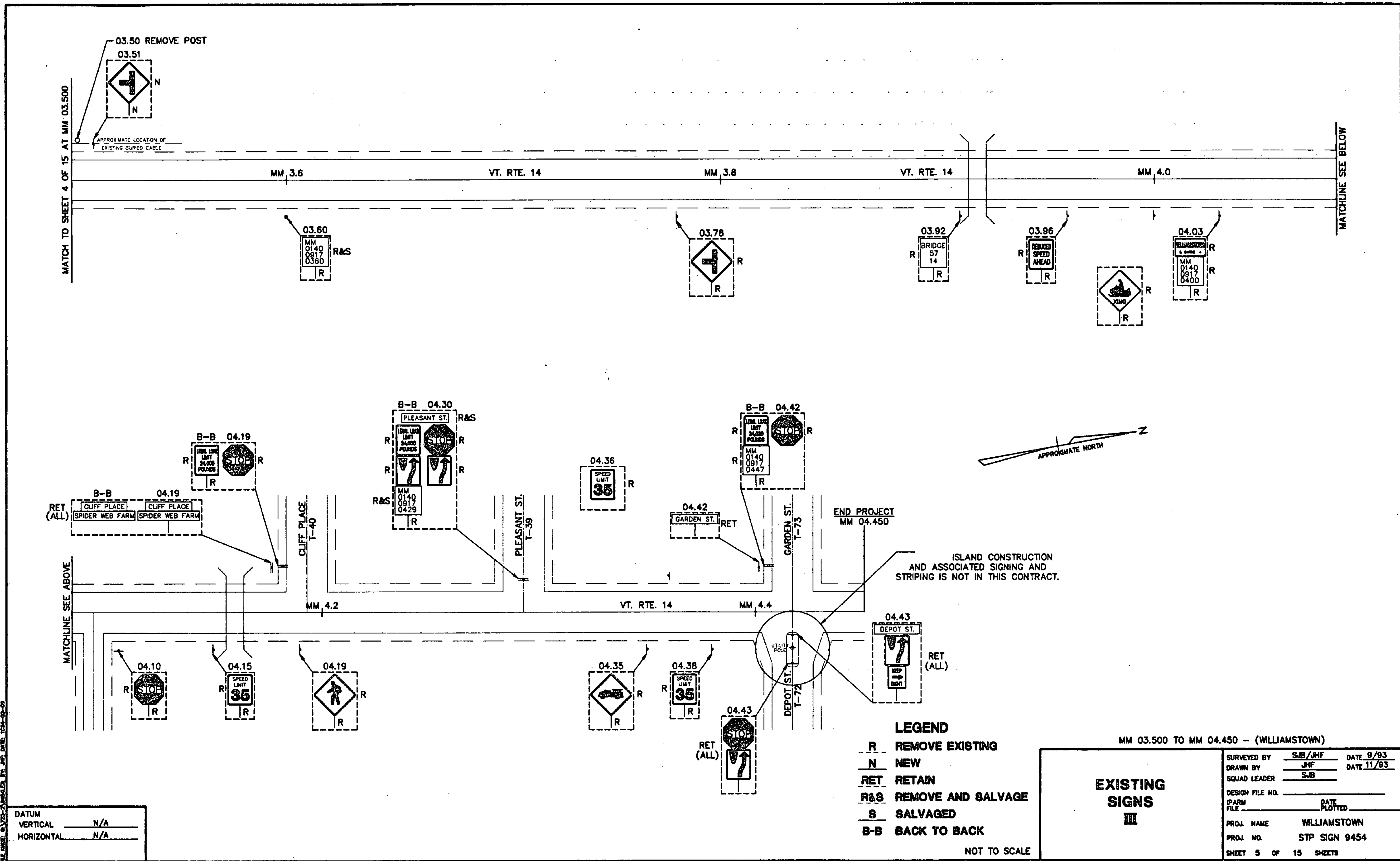
DATE PLOTTED: 11/93

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

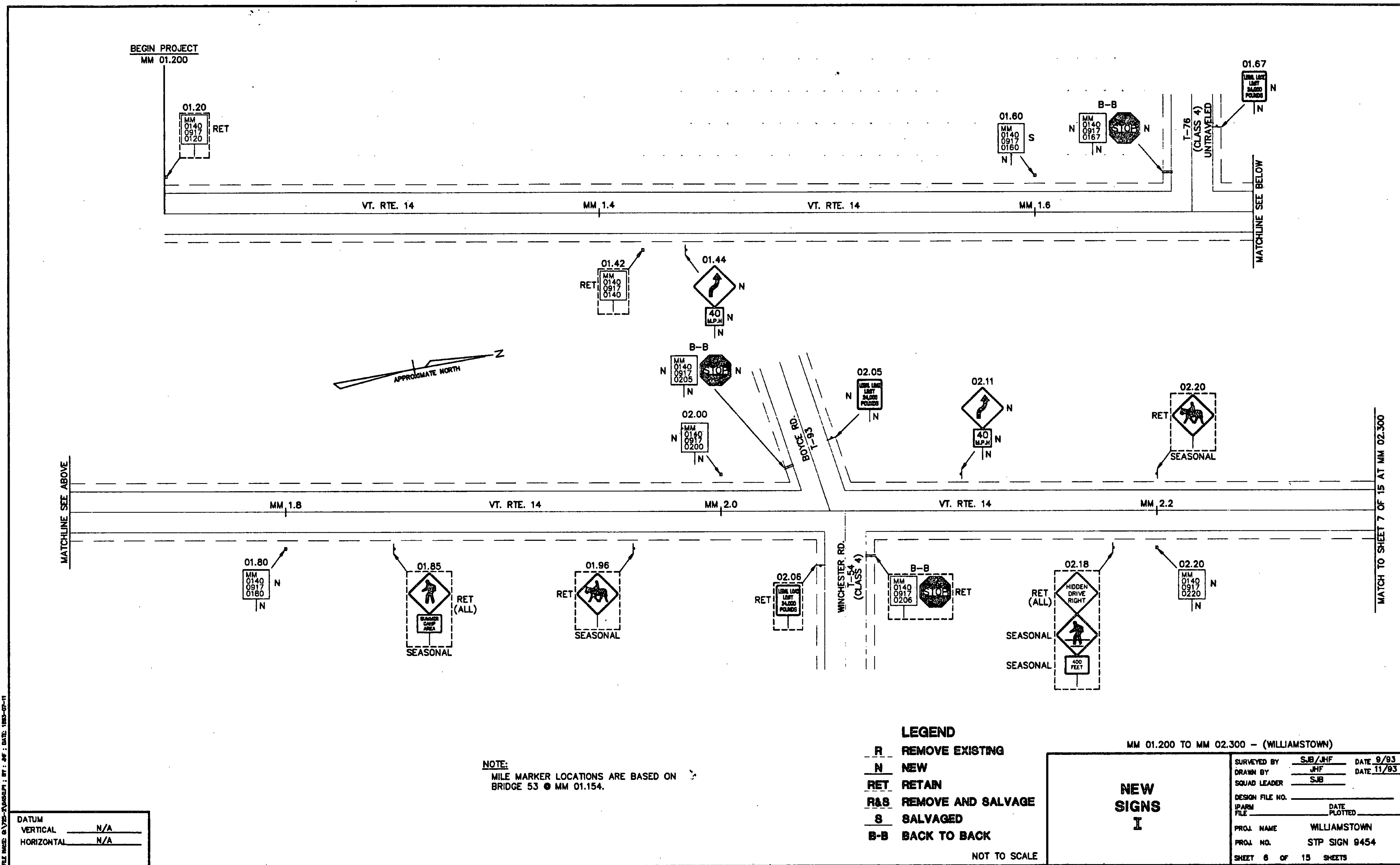
- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

EXISTING SIGNS		MM 02.300 TO MM 03.500 - (WILLIAMSTOWN)	
SURVEYED BY	SJB/JHF	DATE	9/83
DRAWN BY	JHF	DATE	11/83
SQUAD LEADER	SJB		
DESIGN FILE NO.		DATE PLOTTED	
PROJ. NAME	WILLIAMSTOWN		
PROJ. NO.	STP SIGN 9454		
SHEET	4 OF 15 SHEETS		

NOT TO SCALE



SEE SHEET 4 OF 15 FOR MATCHLINE



BEGIN PROJECT
MM 01.200

MM 0140
0917
0120
RET

VT. RTE. 14

MM 1.4

VT. RTE. 14

MM 1.8

MM 0140
0917
0167
N

B-B
MM 0140
0917
0167
STOP
N

T-76
(CLASS 4)
UNTRAVELED

MATCHLINE SEE BELOW

MM 0140
0917
0140
RET

MM 0140
0917
0140
40 M.P.H.
N



B-B
MM 0140
0917
0205
STOP
N

MM 0140
0917
0205
USE L&S
LIST
S&S
POLDS
N

MM 0140
0917
0211
40 M.P.H.
N

MM 0140
0917
0220
SEASONAL
RET

MATCHLINE SEE ABOVE

MM 1.8

VT. RTE. 14

MM 2.0

VT. RTE. 14

MM 2.2

MATCH TO SHEET 7 OF 15 AT MM 02.300

MM 0140
0917
0180
N

MM 0140
0917
0185
SEASONAL
RET (ALL)

MM 0140
0917
0196
SEASONAL
RET

MM 0140
0917
0206
USE L&S
LIST
S&S
POLDS
RET

WINCHESTER RD.
T-54
(CLASS 4)

B-B
MM 0140
0917
0206
STOP
RET

MM 0140
0917
0218
HIDDEN
DRIVE
RIGHT
SEASONAL
RET (ALL)
SEASONAL
400 FEET

MM 0140
0917
0220
N

NOTE:
MILE MARKER LOCATIONS ARE BASED ON
BRIDGE 53 @ MM 01.154.

LEGEND

- R REMOVE EXISTING
- N NEW
- RET RETAIN
- R&S REMOVE AND SALVAGE
- S SALVAGED
- B-B BACK TO BACK

NOT TO SCALE

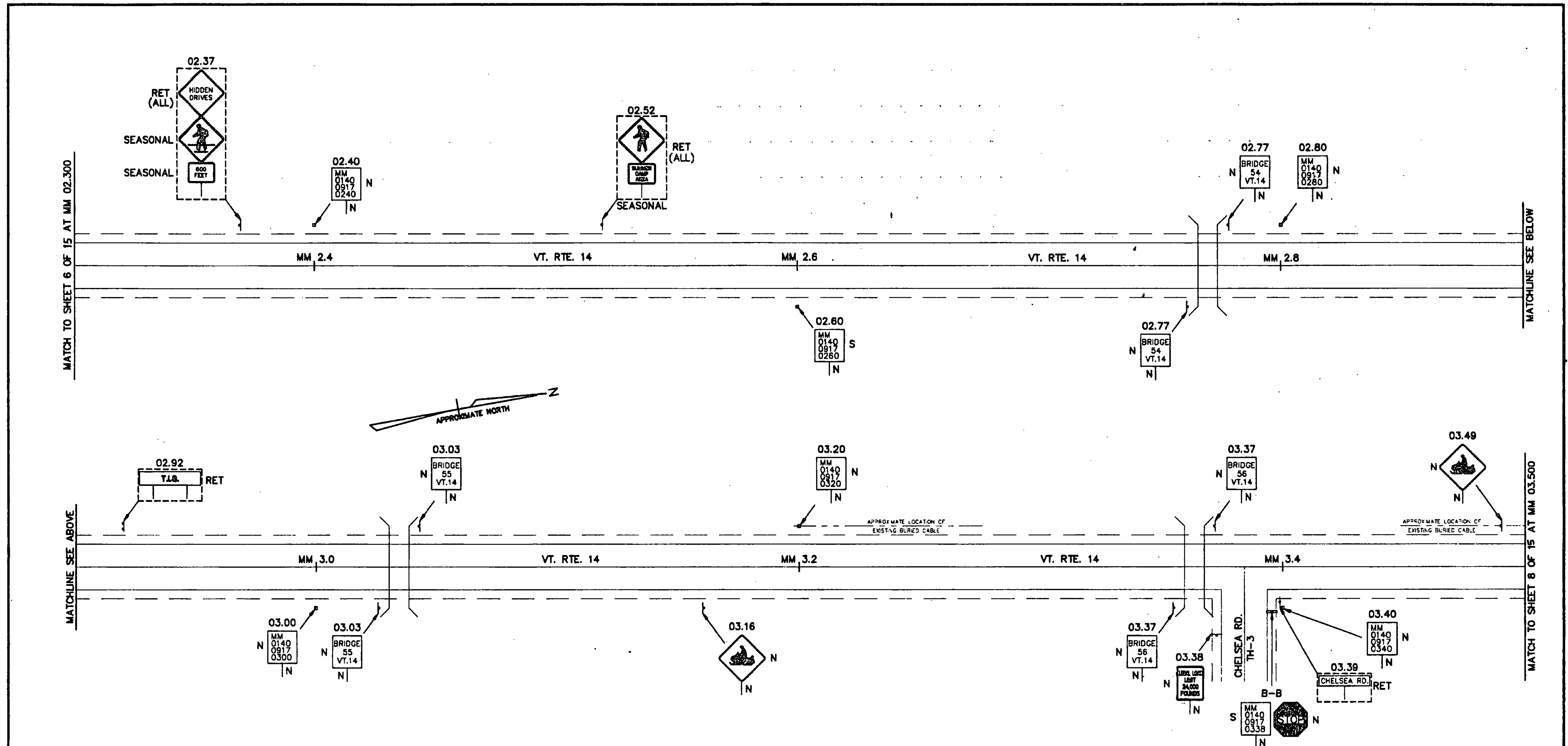
MM 01.200 TO MM 02.300 - (WILLIAMSTOWN)

**NEW
SIGNS
I**

SURVEYED BY	SJB/JHF	DATE	8/93
DRAWN BY	JHF	DATE	11/93
SQUAD LEADER	SJB		
DESIGN FILE NO.			
IPARM FILE		DATE PLOTTED	
PROJ. NAME	WILLIAMSTOWN		
PROJ. NO.	STP SIGN 9454		
SHEET	8 OF 15 SHEETS		

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

SEE SHEET 8 OF 15 FOR LEGEND; BY: JHF; DATE: 11/93-01-11



FILE NAME: 01708-01-SIGNAGE.P1 BY: JHF, DATE: 11/03/93

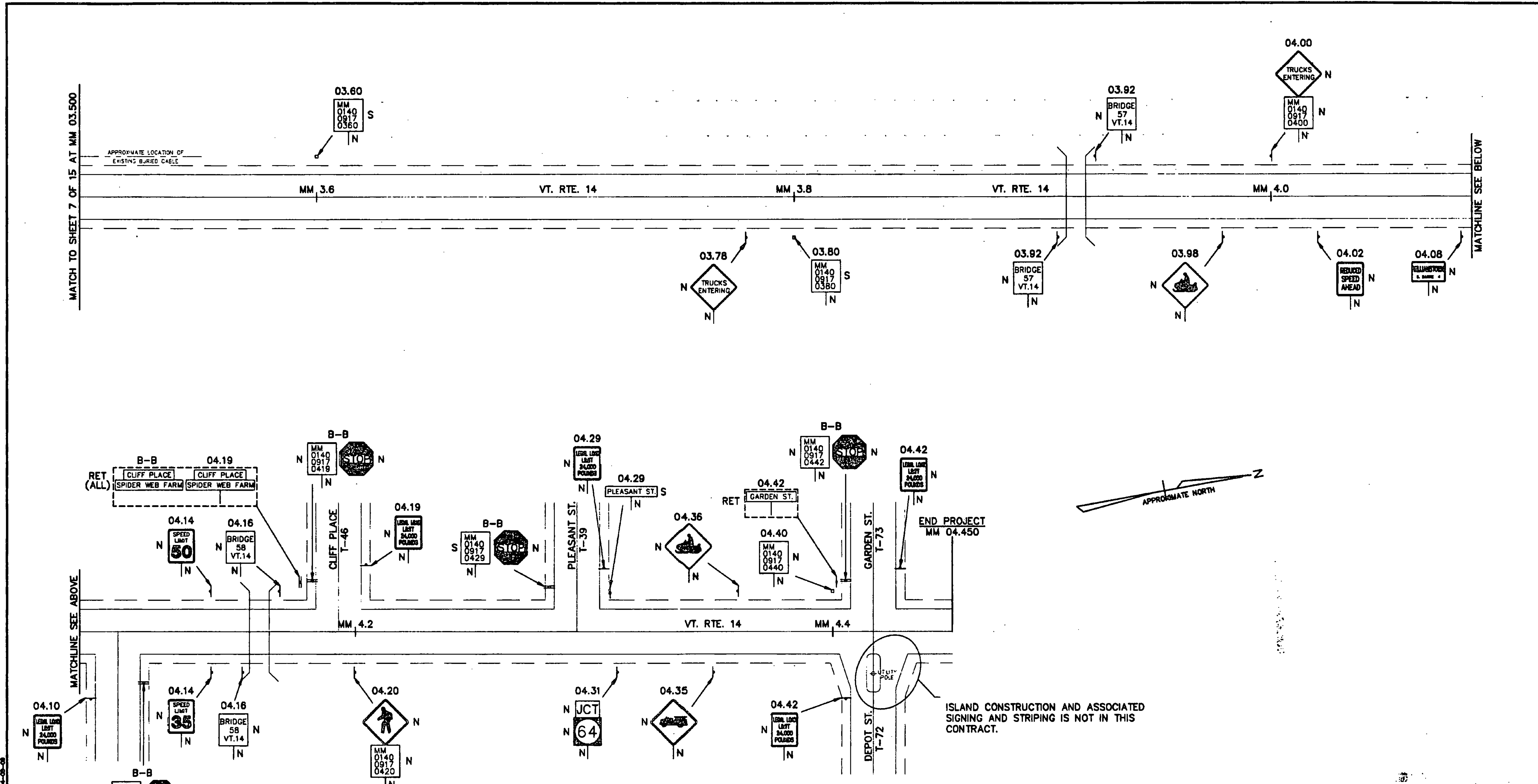
DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

NOT TO SCALE

MM 02.300 TO MM 03.500 - (WILLIAMSTOWN)

NEW SIGNS I	SURVEYED BY	SJB/JHF	DATE	9/93
	DRAWN BY	JHF	DATE	11/93
	SQUAD LEADER	SJB		
	DESIGN FILE NO.		DATE PLOTTED	
IPARM FILE				
PROJ. NAME	WILLIAMSTOWN			
PROJ. NO.	STP SIGN 9454			
SHEET 7 OF 15 SHEETS				



FILE NAME: 03725-PAVEMEN; ST. DATE: 10/24/03

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A













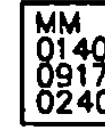

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

MM 03.500 TO MM 04.450 - (WILLIAMSTOWN)

NEW SIGNS III	SURVEYED BY	SJB/JHF	DATE	8/03
	DRAWN BY	JHF	DATE	11/03
	SQUAD LEADER	SJB		
	DESIGN FILE NO.		DATE PLOTTED	
IPARM FILE				
PROJ. NAME	WILLIAMSTOWN			
PROJ. NO.	STP SIGN 9454			
SHEET 8 OF 15 SHEETS				

NOT TO SCALE

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS						EXIST. POSTS		NEW SIGN POSTS														REMARKS	SIGN DETAIL							
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL		SIGNAL FRAME	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER									
										1.12	2.0	3.0	3.0" ø	4.0" ø	3" ø	3.5" ø	4.0" ø	5.0" ø	POST SIZE	WEIGHT	24"					30"							
	VT. RTE. 14 WILLIAMSTOWN																																
01.44 RT.		30" x 30"	6.3																								15						
		18" x 18"	2.3							1			X															E-152					
01.60 LT.						1				1	X														SALVAGED FROM 01.62 RT.								
01.67 LT.		6" x 8" 30" x 30"	.3 6.3							1			X											BACK TO BACK			E-138 E-143						
01.67 LT.		24" x 30"	5							1			X														E-141						
01.80 RT.		6" x 8"	.3							1	X																E-138						
02.00 LT.		6" x 8"	.3							1	X																E-138						
02.05 LT.		6" x 8" 30" x 30"	.3 6.3							1			X											BACK TO BACK			E-138 E-143						
02.05 LT.		24" x 30"	5							1			X														E-141						
02.11 LT.		30" x 30"	6.3																							15							
		18" X 18"	2.3							1			X														E-152						
02.20 RT.		6" x 8"	.3							1	X																E-138						
02.40 LT.		6" x 8"	.3							1	X																E-138						
02.60 RT.						1				1	X													SALVAGED FROM 02.62 RT.									
<p>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 ".</p> <p>TOTALS</p>			SF.	SF.	EA.	SF.					LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.													
			41.6		2						300																						

FILE: NAME: 8-1788-7-10-81; DT: DT: DATE: 1084-07-11

TRAFFIC SIGN SUMMARY SHEET I





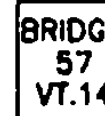
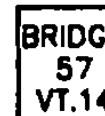












DRAWN BY: _____ DATE: 12/83
SQUAD LEADER: _____
DESIGN FILE NO.: _____
PACEM FILE: _____ DATE PLOTTED: _____
PROJ. NAME: WILLIAMSTOWN
PROJ. NO.: STP SIGN 9454
SHEET 9 OF 15 SHEETS

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS		EXIST. POSTS		NEW SIGN POSTS														REMARKS	SIGN DETAIL					
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL		SIGN FRAME	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER			
										1.12	2.0	3.0	3.0"φ	4.0"φ	3"φ	3.5"φ	4.0"φ	5.0"φ	POST SIZE	WEIGHT					24"	30"	
	VT. RTE. 14 WILLIAMSTOWN																										
02.77 RT.	BRIDGE 54 VT.14	6" x 8"	.3						1	X																E-134	
02.77 LT.	BRIDGE 54 VT.14	6" x 8"	.3						1	X																	E-134
02.80 LT.	MM 0140 0917 0280	6" x 8"	.3						1	X																	E-138
03.00 RT.	MM 0140 0917 0300	6" x 8"	.3						1	X																	E-138
03.03 RT.	BRIDGE 55 VT.14	6" x 8"	.3						1	X																	E-134
03.03 LT.	BRIDGE 55 VT.14	6" x 8"	.3						1	X																	E-134
03.16 LT.		30" x 30"	6.3						1			X													15		
03.20 LT.	MM 0140 0917 0320	6" x 8"	.3						1	X																	E-138
03.37 RT.	BRIDGE 56 VT.14	6" x 8"	.3						1	X																	E-134
03.37 LT.	BRIDGE 56 VT.14	6" x 8"	.3						1	X																	E-134
03.38 RT.		24" x 30"	5						1			X															E-141
03.38 RT.	MM 0140 0917 0338	30" x 30"	6.3		1				1			X															E-143
03.40 RT.	MM 0140 0917 0340	6" x 8"	.3						1	X																	E-138
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 ".			SF.	SF.	EA.	SF.			LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.			LBS.	EA.	EA.			TRAFFIC SIGN SUMMARY SHEET I	
TOTALS			20.6		1				206														DRAWN BY: JHE DATE: 12/93 SQUAD LEADER: SB DESIGN FILE NO.: I/P/W FILE: DATE PLOTTED: PROJ. NAME: WILLIAMSTOWN PROJ. NO.: STP SIGN 9454 SHEET 10 OF 15 SHEETS				

FILE: WMS: 0140-0917-0340; BY: JHE; DATE: 12/93-07-91

TRAFFIC SIGN SUMMARY SHEET

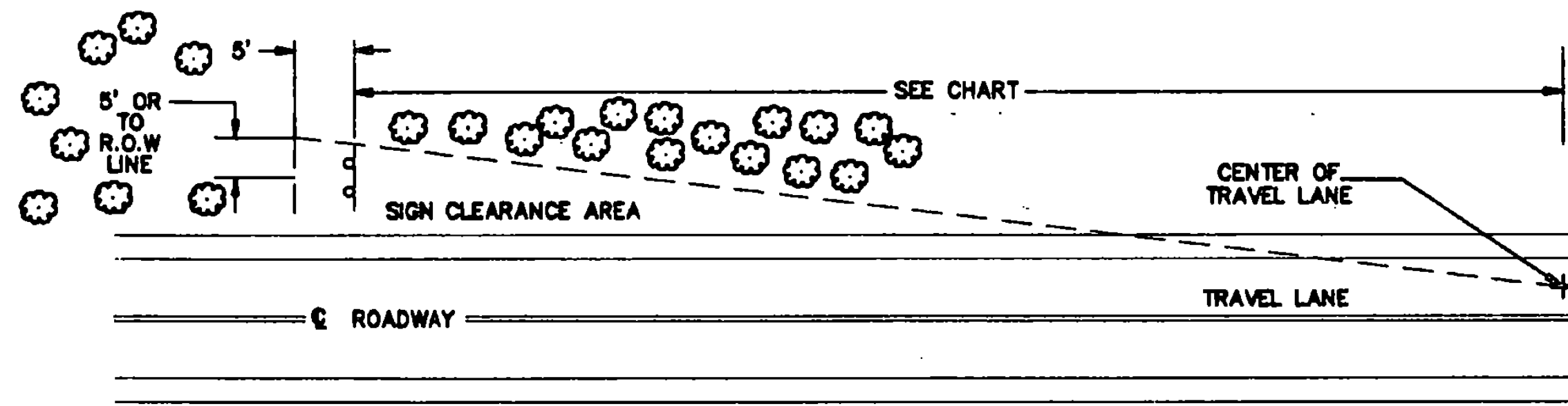
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS						EXIST. POSTS		NEW SIGN POSTS															REMARKS	SIGN DETAIL											
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL		FTB. SIZE		SIGN FRAME	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER													
										1.12	2.0	3.0	3.0" ø	4.0" ø	1.3" ø	3.5" ø	4.0" ø	5.0" ø	POST SIZE	WEIGHT	24"	30"																
	VT. RTE. 14 WILLIAMSTOWN																																					
03.49 LT.		30" x 30"	6.3							1			X																				15					
03.60 LT.					1					1	X																					SALVAGED FROM 03.60 RT.						
03.78 RT.		30" x 30"	6.3							1			X																				16					
03.80 RT.					1					1	X																					SALVAGED FROM 03.83 RT.						
03.92 RT.		6" x 8"	.3							1	X																						E-134					
03.92 LT.		6" x 8"	.3							1	X																						E-134					
03.98 RT.		30" x 30"	6.3							1			X																				15					
04.00 LT.		30" x 30"	6.3																														16					
		6" x 8"	.3							1			X																				E-138					
04.02 RT.		24" x 30"	5							1			X																				E-142					
04.08 RT.		30" x 18"	3.8							1			X																				E-128B					
04.10 RT.		24" x 30"	5							1			X																				E-141					
04.10 RT.	 	6" x 8" 30" x 30"	.3 6.3							1			X																			BACK TO BACK	E-138 E-143					
04.14 RT.		24" x 30"	5							1			X																				E-142					
04.14 LT.		24" x 30"	5							1			X																				E-142					
04.16 RT.		6" x 8"	.3							1	X																						E-134					
04.16 LT.		6" x 8"	.3							1	X																						E-134					
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".			SF.	SF.	EA.	SF.					LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.			LBS.	EA.	EA.			TRAFFIC SIGN SUMMARY SHEET III		DATE 12/93								
TOTALS			57.1		2						468																					DRAWN BY: <u> </u>	SQUAD LEADER: <u> </u>	DESIGN FILE NO.: <u> </u>	DATE PLOTTED: <u> </u>	PROJ. NAME: <u> </u>	WILLIAMSTOWN	PROJ. NO.: <u> </u>

REF: MISS. CIVIL ENGINEERING & SURVEYING DATE: 11/84-87-91

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS		EXIST. POSTS		NEW SIGN POSTS															REMARKS	SIGN DETAIL																	
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL		FTG. SIZE		SIGN FRAME	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER															
										1.12	2.0	3.0	3.0"Ø	4.0"Ø	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT	24"					30"														
	VT. RTE. 14 WILLIAMSTOWN																																							
04.19 LT.		6" x 8" 30" x 30"	.3 6.3																																			BACK TO BACK	E-138 E-143	
04.19 LT.		24" x 30"	5																																				E-141	
04.20 RT.		30" x 30"	6.3																																				E-152	
		6" x 8"	.3																																				E-138	
04.29 LT.		30" x 30"	6.3			1																																	SALVAGED FROM 04.29 LT. BACK TO BACK	E-143
04.29 LT.		24" x 30"	5																																				E-141	
04.29 LT.	PLEASANT ST					1																																	SALVAGED FROM 04.29 LT.	
04.31 RT.	JCT	21" x 15"	2.2																																				E-1368	
	64	24" x 24"	4																																				E-1368	
04.35 RT.		30" x 30"	6.3																																				16	
04.36 LT.		30" x 30"	6.3																																				15	
04.40 LT.		6" x 8"	.3																																				E-138	
04.42 RT.		24" x 30"	5																																				E-141	
04.42 LT.		6" x 8" 30" x 30"	.3 6.3																																				BACK TO BACK	E-138 E-143
04.42 LT.		24" x 30"	5																																					E-141
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".			SF.	SF.	EA.	SF.					LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.		LBS.	EA.	EA.	TRAFFIC SIGN SUMMARY SHEET IV		DRAWN BY: JHE	DATE: 12/93	SQUAD LEADER: JHE			DESIGN FILE NO.:		DATE PLOTTED:		PROJ. NAME: WILLIAMSTOWN	PROJ. NO.: STP SIGN 9454	SHEET 12 OF 15 SHEETS		
TOTALS			65.2		2						512																													

RE: 1000-07-11
 DATE: 12/93
 BY: JHE

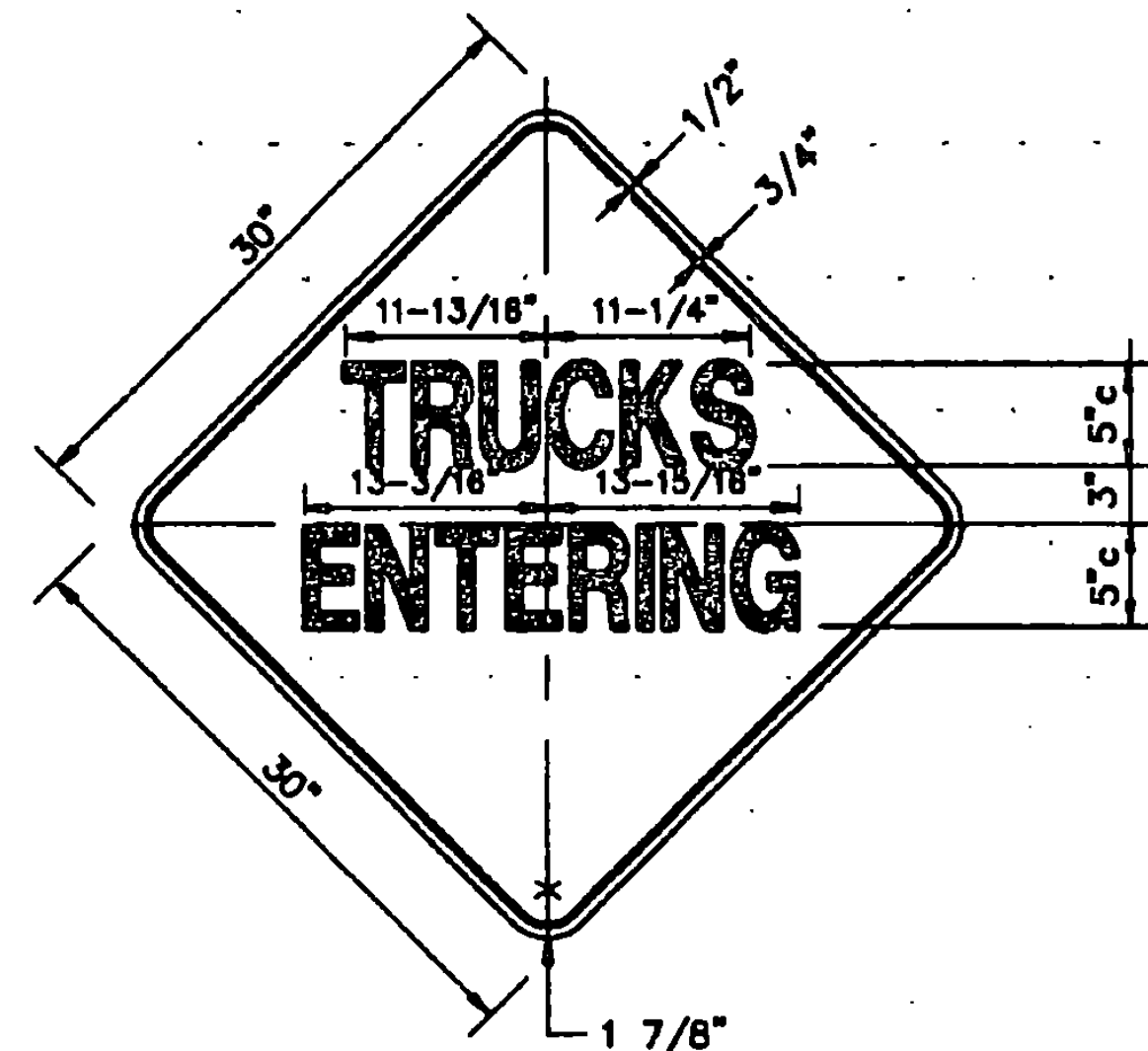


THE CONTRACTOR SHALL REMOVE ALL WOODY STEMMED GROWTH INCLUDING BRUSH, SAPLINGS, TREE LIMBS GROWING WITHIN OR PROJECTING INTO THE CLEARANCE AREA AND DOWN TO GROUND LEVEL. PAYMENT WILL BE FOR THINNING & TRIMMING (MOD.) ITEM 201.31. NO CHEMICALS (POISONS OR DEFOLIANTS) ALLOWED.

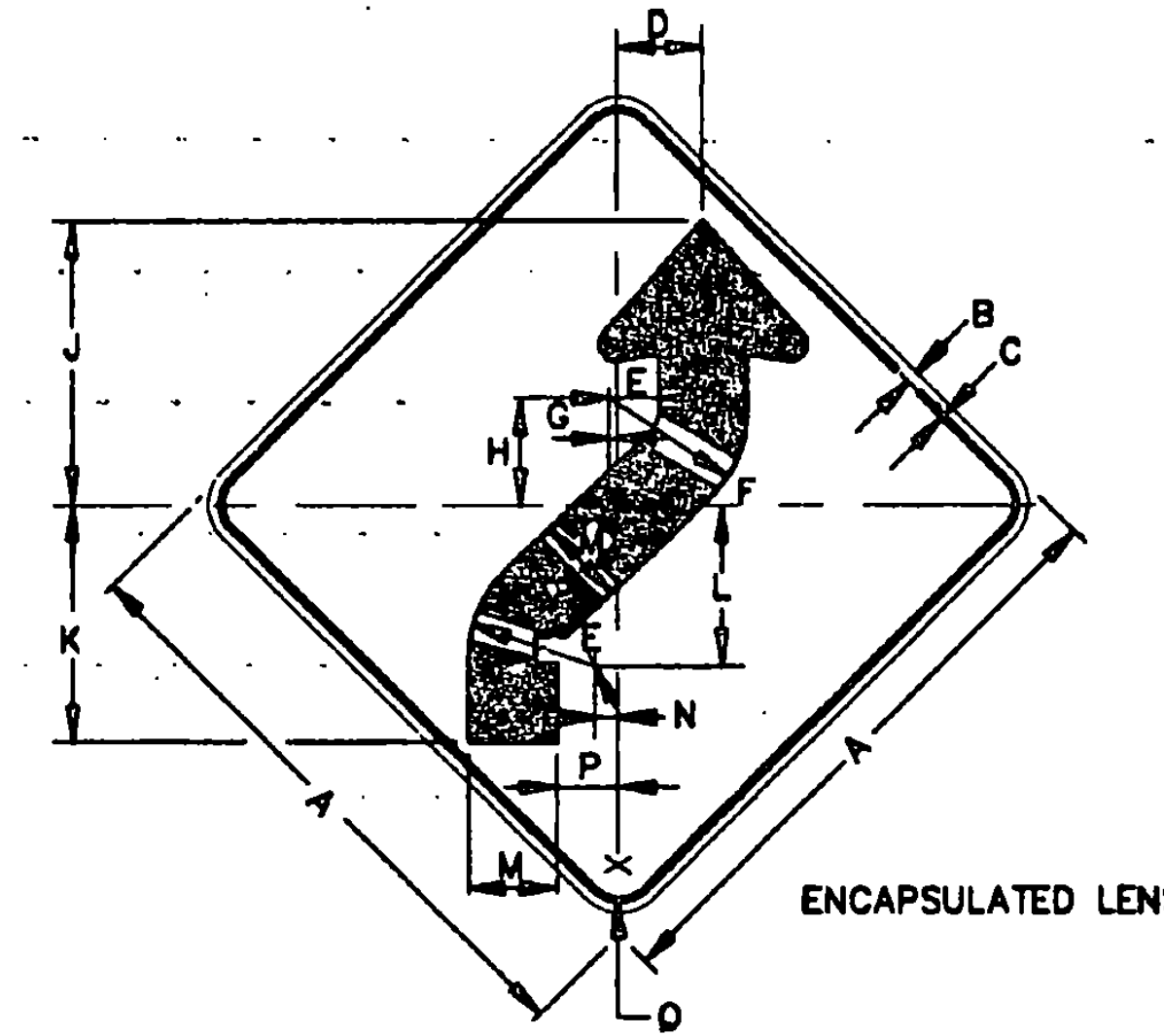
MINIMUM SIGN SIGHT DISTANCE CHART

APPROACH SPEED (mph)	SIGHT DISTANCE (feet)
30 OR LESS	300
35	350
40	400
45	450
50	500

CLEARING LIMITS FOR SIGNS ON CONVENTIONAL ROADS

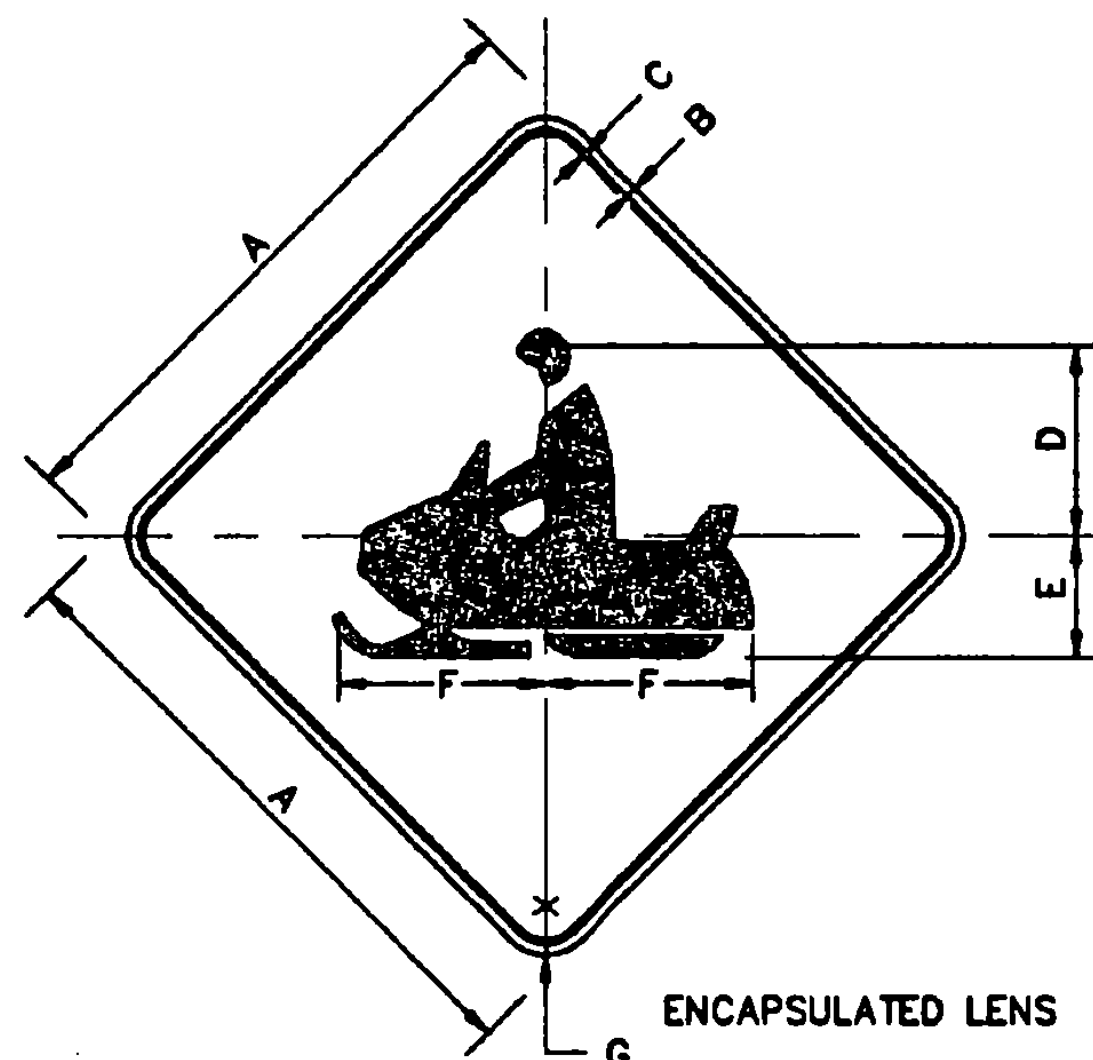


COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



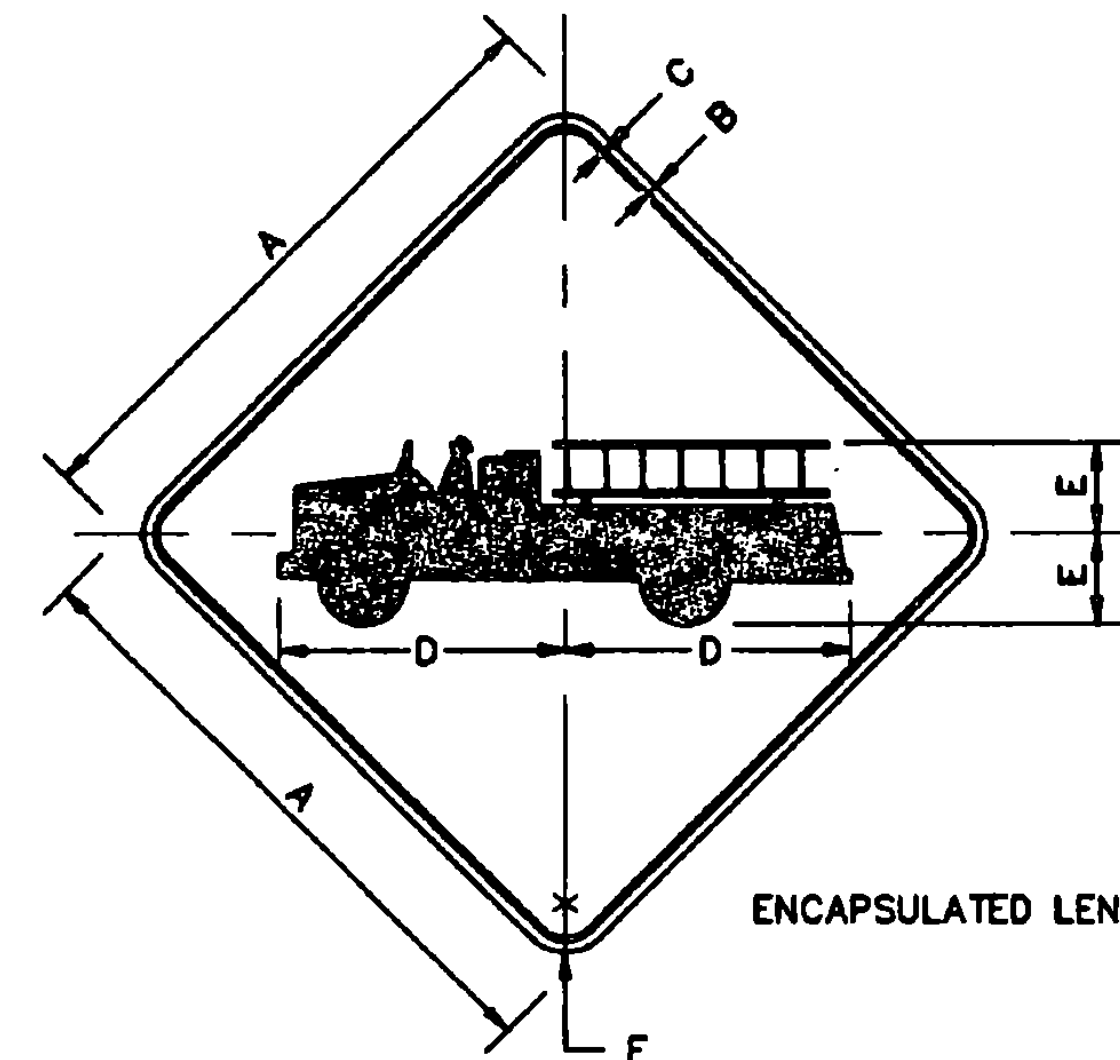
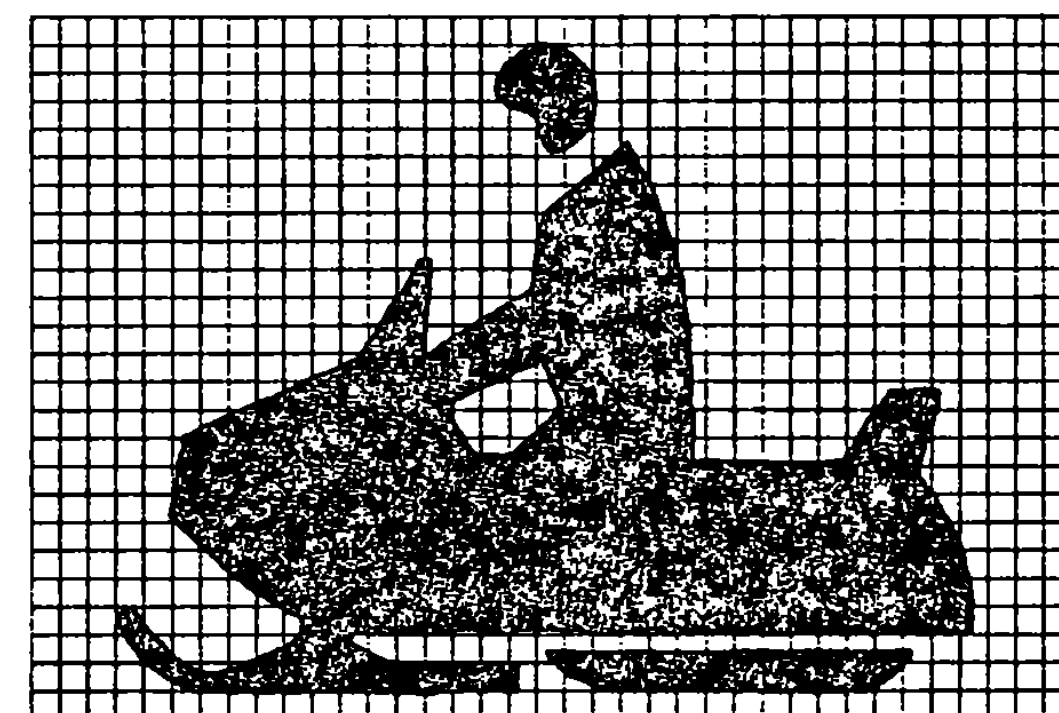
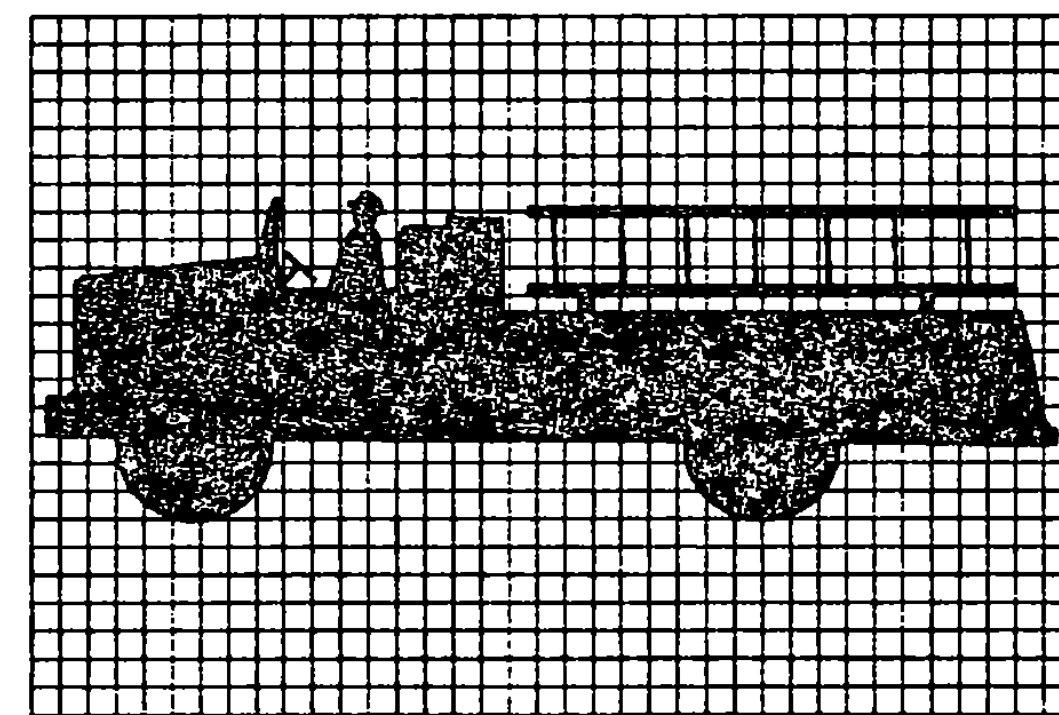
SIGN	DIMENSION (INCHES)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
STD.	30	1/2	3/4	3-15/16	1-7/8	6-1/4	3/8	4-3/8	14-1/16	10-5/16	6-9/16	4-3/8	1-13/32	3-9/32	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



SIGN	DIMENSION (INCHES)						
	A	B	C	D	E	F	G
MIN.	30	1/2	3/4	9 3/16	5 7/8	10 1/16	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



SIGN	DIMENSION (INCHES)					
	A	B	C	D	E	F
MIN.	30	1/2	3/4	13 3/4	4 3/8	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151

NOTE:
TEXT LAYOUT DIMENSIONS ARE BASED ON THE "LETTER & NUMERAL WIDTHS AND SPACE" TABLES FOUND IN THE "STANDARD HIGHWAY SIGNS" BOOKLET. 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 VAOT'S TRAFFIC AND SAFETY DIVISION BEFORE FABRICATION.

SIGN DETAILS

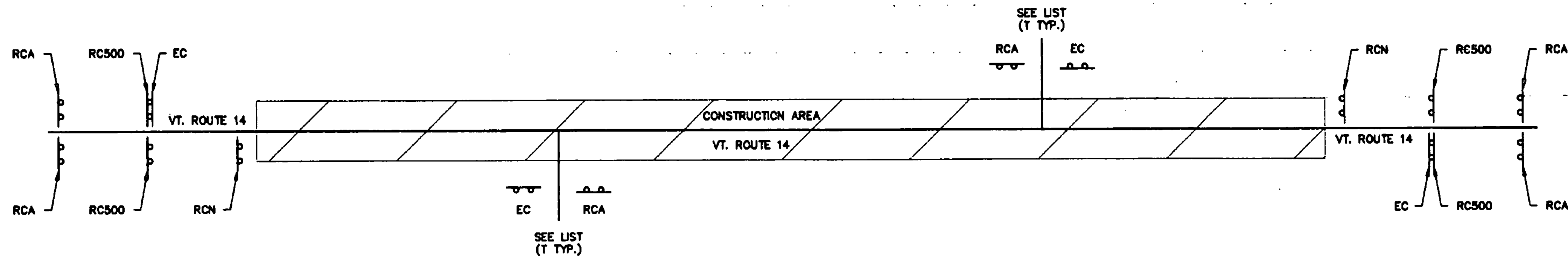
SURVEYED BY	N/A	DATE	N/A
DRAWN BY	JHF	DATE	12/83
SQUAD LEADER	SJB		
DESIGN FILE NO.		DATE	
FILE		PLOTTED	
PROJ. NAME	WILLIAMSTOWN		
PROJ. NO.	STP SIGN 9454		
SHEET 14 OF 15 SHEETS			

NOT TO SCALE

SEE SHEET 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

CONSTRUCTION APPROACH SIGNING

SEE STD. E-100 FOR SIGN PLACEMENT



LIST OF TOWN ROADS/HIGHWAYS FOR CONSTRUCTION SIGNS

TOWN HIGHWAY NUMBER	ROAD CONST. AHEAD	END CONST.	OTHER
T-93	1	1	
T-54	1	1	
TH-3	1	1	
T-40	1	1	
T-39	1	1	
T-73	1	1	
T-72	1	1	
T-71	1	1	
VT. 64	1	1	
TH-1	1	1	
T-24	1	1	
TOTAL	11	11	

- RCA = ROAD CONSTRUCTION AHEAD
- RC500 = ROAD CONSTRUCTION 500'
- EC = END CONSTRUCTION
- RCN = ROAD CONSTRUCTION NEXT 3.25 MILES
- SRCA = SIDE ROAD CONSTRUCTION AHEAD
- SRCS500 = SIDE ROAD CONSTRUCTION 500'
- T = TOWN ROAD
- TH = TOWN HIGHWAY

DATUM
 VERTICAL N/A
 HORIZONTAL N/A

CONSTRUCTION APPROACH SIGNING

SURVEYED BY SJB/JHF DATE N/A
 DRAWN BY JHF DATE 12/93
 SQUAD LEADER SJB
 DESIGN FILE NO. _____
 IPARM FILE _____ DATE PLOTTED _____
 PROJ. NAME WILLIAMSTOWN
 PROJ. NO. STP SIGN 9454
 SHEET 15 OF 15 SHEETS

NOT TO SCALE

SEE STD. E-100 FOR SIGN PLACEMENT

STATE OF VERMONT
AGENCY OF TRANSPORTATION

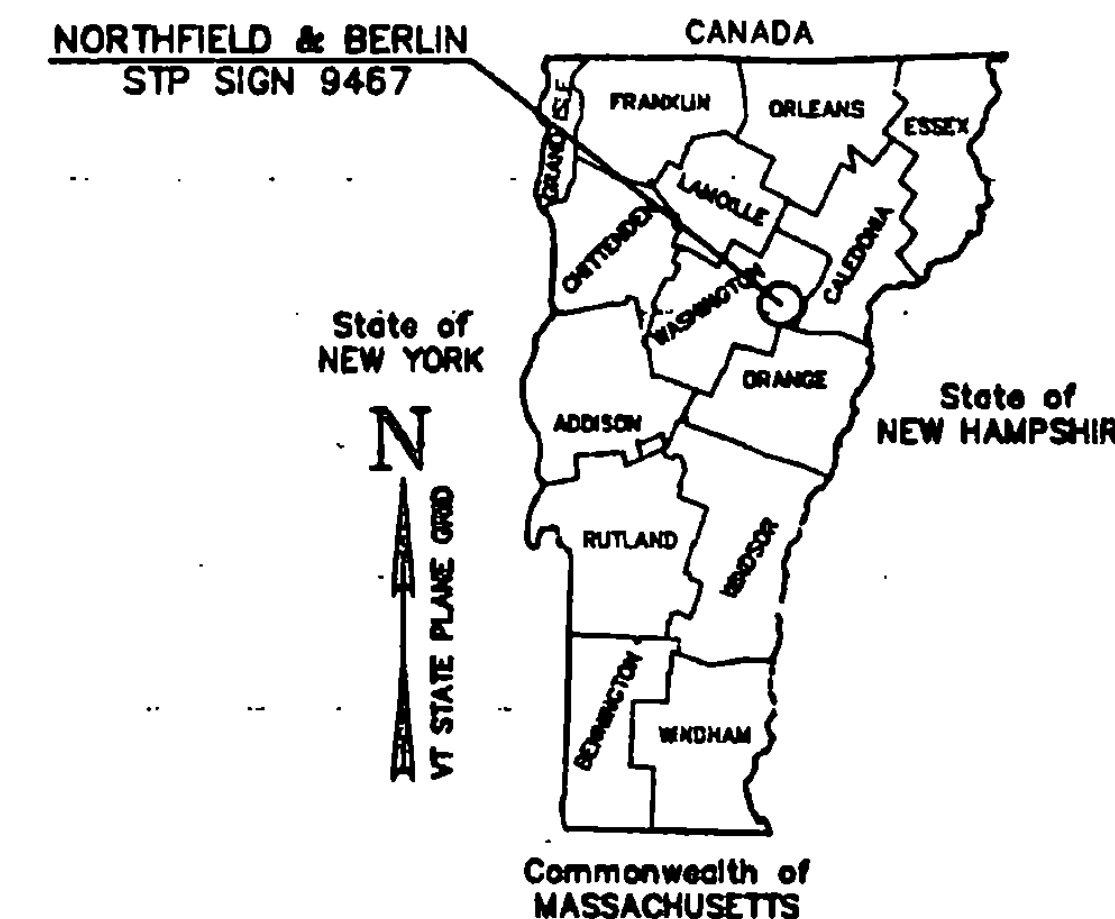


PROPOSED IMPROVEMENT
TOWNS OF NORTHFIELD & BERLIN
COUNTY OF WASHINGTON
VT. RTE. 12

VT. RTE. 12 - BEGINNING AT APPROXIMATELY 0.211 MILES NORTH OF BRIDGE 61
AND EXTENDING NORTH 7.686 MILES.

LENGTH OF ROADWAY FEET = 40,583 MILES = 7.686

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES
UPGRADING SIGNS AND SIGN SUPPORTS.

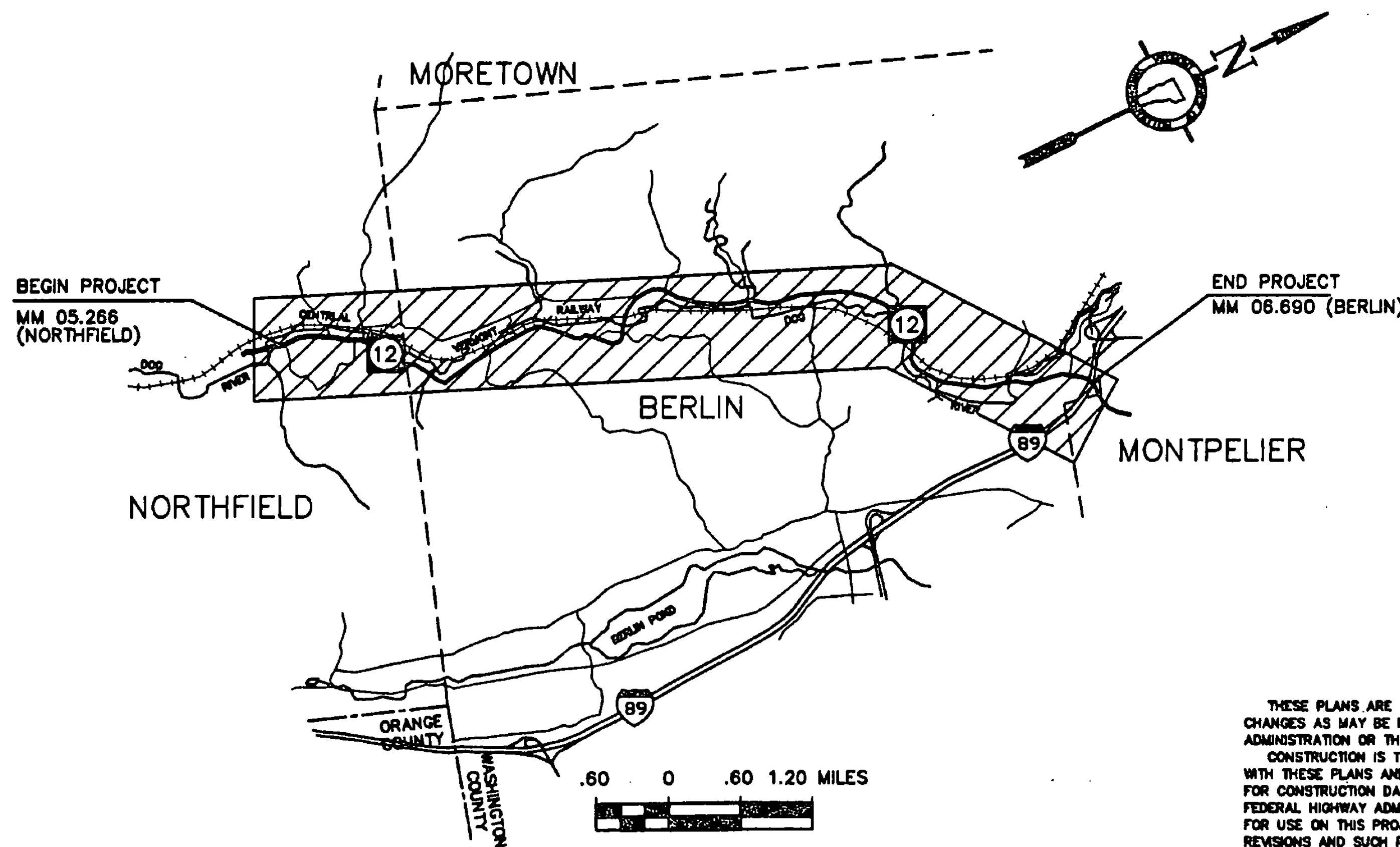


TRAFFIC DATA
1993 ADT = 5200
1993 DHV = 695
2003 ADT = 6210
2003 DHV = 805

NUMBER	TITLE	DATE
C-1	GRANITE SLOPE EDGING	06/01/94
D-1	REINFORCED CONCRETE PIPE D.I. W/CAST IRON GRATE	06/01/94
E-10	TYPICAL MINOR MAINTENANCE APPROACH SIGNS	08/08/95
E-100	CONSTRUCTION APPROACH SIGNS	08/08/95
E-101	CONSTRUCTION SIGN DETAILS	08/08/95
E-102	CONSTRUCTION SIGN DETAILS	08/08/95
E-106	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08/08/95
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08/08/95
E-120	STANDARD SIGN PLACEMENT EXPRESSWAY AND FREEWAY	08/08/95
E-121	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	08/08/95
E-124	TOWN LINE SIGNS	08/08/95
E-128B	VILLAGE SIGNS N-W	08/08/95
E-134	BRIDGE NUMBER PLAQUE	08/08/95
E-138	MILE MARKER DETAILS STATE AND TOWN HIGHWAYS	08/08/95
E-140	REGULATORY SIGN DETAILS	09/20/95
E-141	REGULATORY SIGN DETAILS	09/20/95
E-142	REGULATORY SIGN DETAILS	09/20/95
E-143	REGULATORY SIGN DETAILS	09/20/95
E-150	WARNING SIGN DETAILS	08/08/95
E-152	WARNING SIGN DETAILS	08/08/95
E-160	FLANGED CHANNEL STEEL SIGN POST	08/18/95
E-190	RAILROAD CROSSING SIGN AND PAVEMENT MARKING	08/18/95

INDEX TO SHEETS

SHEET TITLE	SHEET NO.
TITLE	1
QUANTITY	2
EXISTING SIGNS	3-9
NEW SIGNS	10-16
TRAFFIC SIGN SUMMARY	17-33
INTERSECTION DETAILS	34
SIGN DETAILS	35-38
CONSTRUCTION APPROACH SIGNING	39

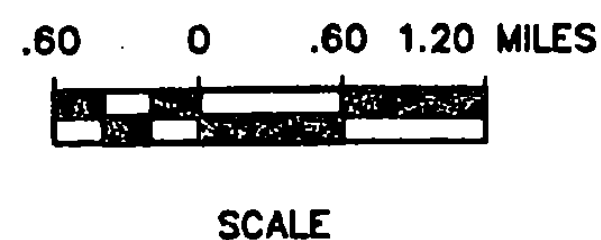


CONVENTIONAL SIGNS

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

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

UNLESS OTHERWISE INDICATED, THE DRAWINGS AND
DETAILS OF THESE PLANS ARE NOT TO SCALE.

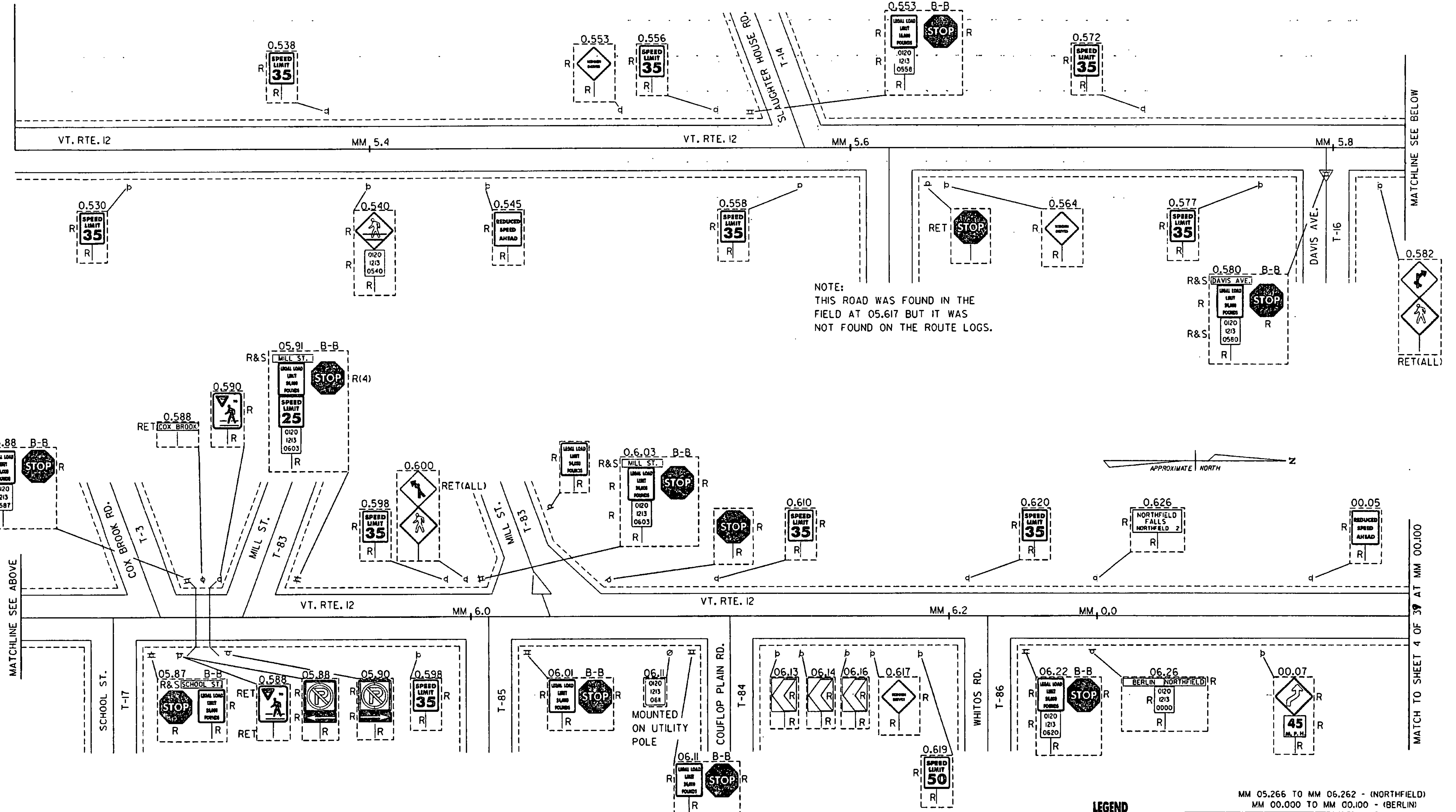
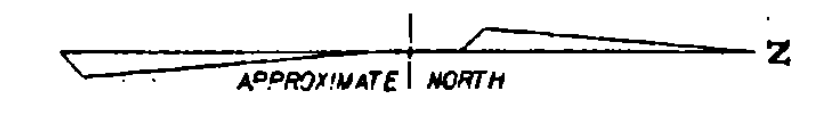


Stephen J. Bradette

TYLON INTERNATIONAL

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED _____	DATE _____
DIRECTOR OF CONSTRUCTION & MAINTENANCE	
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED _____	DATE _____
DIVISION ADMINISTRATOR	
PROJECT NORTHFIELD-BERLIN	
STP SIGN 9467	
SHEET 1 OF 39 SHEETS	

BEGIN PROJECT
MM 05.266 (NORTHFIELD)



NOTE:
THIS ROAD WAS FOUND IN THE
FIELD AT 05.617 BUT IT WAS
NOT FOUND ON THE ROUTE LOGS.



NOTE:
MILE MARKER LOCATIONS FOR NORTHFIELD
ARE BASED ON BRIDGE 61 @ MM 05.055

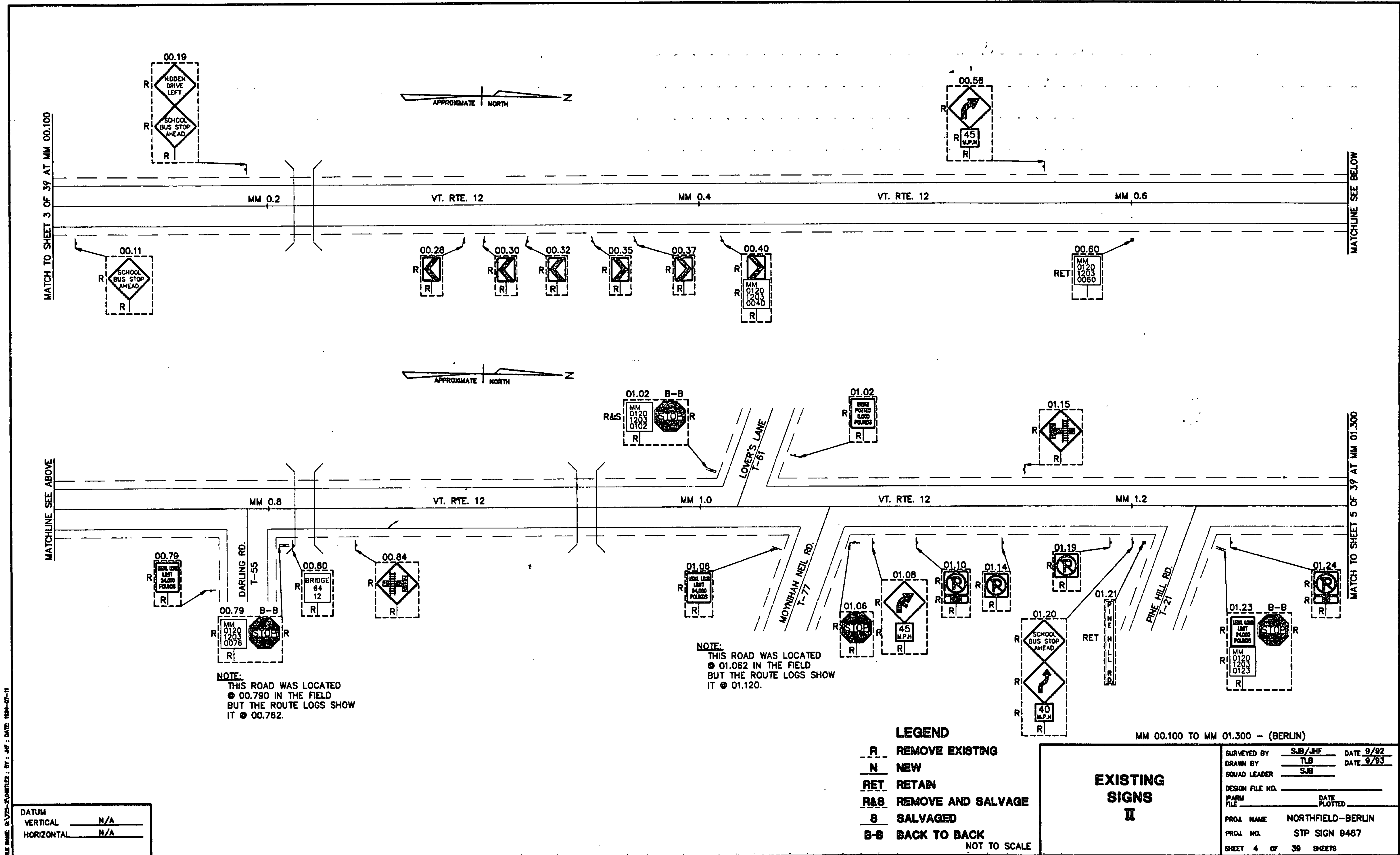
MILE MARKER LOCATIONS FOR BERLIN
ARE BASED ON BRIDGE 64 @ MM 0.799

LEGEND
 R REMOVE EXISTING
 N NEW
 RET RETAIN
 R&S REMOVE AND SALVAGE
 S SALVAGED
 B-B BACK TO BACK
 NOT TO SCALE

**EXISTING
SIGNS**

MM 05.266 TO MM 06.262 - (NORTHFIELD)
MM 00.000 TO MM 00.100 - (BERLIN)

SURVEYED BY	DATE
DRAWN BY	DATE 10/95
SQUAD LEADER	DATE
DESIGN FILE NO. 180F/JHK/NORTFLD.DGN	
IPARM	
FILE NORTH02.1	
PROJ. NAME NORTHFIELD-BERLIN	
PROJ. NO. STP SIGN 9467	
SHEET 3 OF 39 SHEETS	

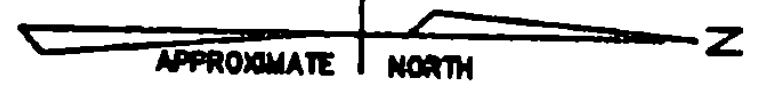
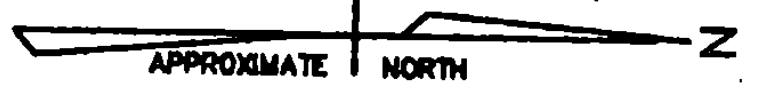


MATCH TO SHEET 3 OF 39 AT MM 00.100

MATCHLINE SEE BELOW

MATCHLINE SEE ABOVE

MATCH TO SHEET 5 OF 39 AT MM 01.300



NOTE:
THIS ROAD WAS LOCATED
● 01.062 IN THE FIELD
BUT THE ROUTE LOGS SHOW
IT ● 01.120.

NOTE:
THIS ROAD WAS LOCATED
● 00.790 IN THE FIELD
BUT THE ROUTE LOGS SHOW
IT ● 00.782.

- LEGEND**
- R** REMOVE EXISTING
 - N** NEW
 - RET** RETAIN
 - R&S** REMOVE AND SALVAGE
 - S** SALVAGED
 - B-B** BACK TO BACK
- NOT TO SCALE

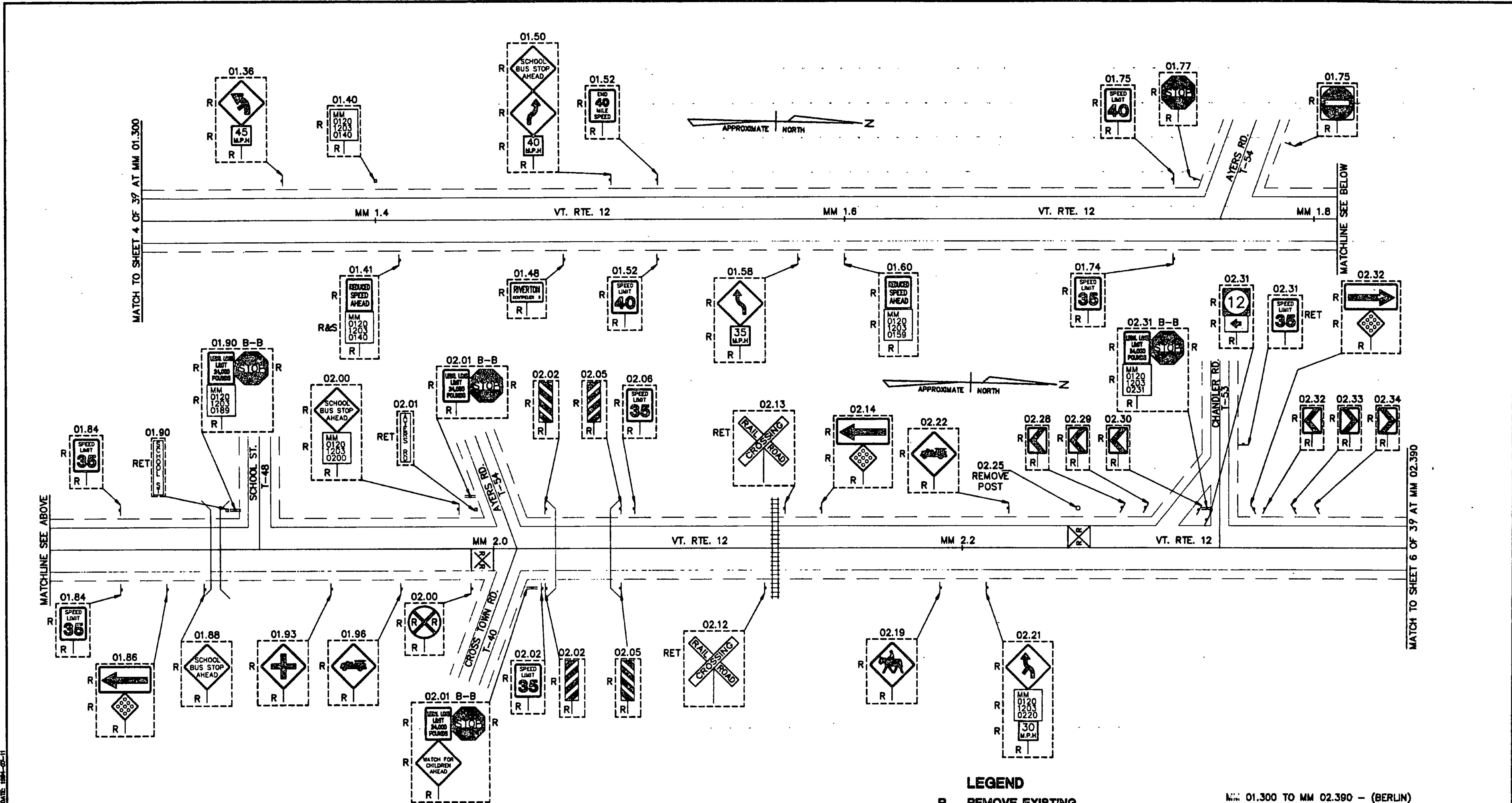
EXISTING SIGNS II

SURVEYED BY	SJB/SHF	DATE 9/92
DRAWN BY	TLB	DATE 9/93
SQUAD LEADER	SJB	
DESIGN FILE NO.		
IPARM FILE		DATE PLOTTED
PROJ. NAME	NORTHFIELD-BERLIN	
PROJ. NO.	STP SIGN 0467	
SHEET 4 OF 39 SHEETS		

FILE NAME: G:\VTS-PLANFILES\BY: SP: DATE: 1994-07-11

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

MM 00.100 TO MM 01.300 -- (BERLIN)



ALL WORK SHOWN UNLESS OTHERWISE NOTED BY DATE 08-01-11

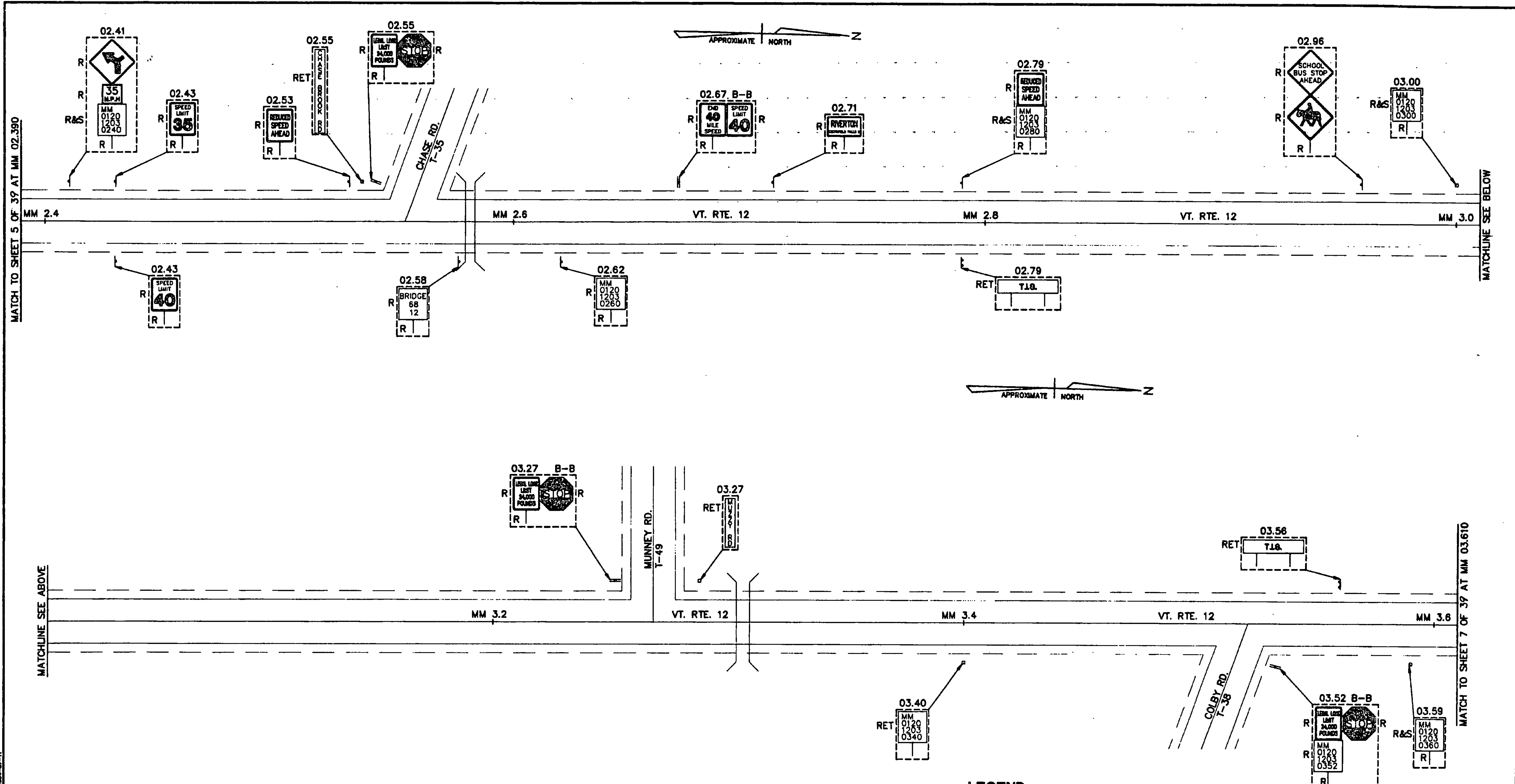
DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

MM 01.300 TO MM 02.390 - (BERLIN)

EXISTING SIGNS III	SURVEYED BY	SJB/JHF	DATE	9/83
	DRAWN BY	SAM	DATE	9/83
SQUAD LEADER		SJB		
DESIGN FILE NO.				
IPARM FILE		DATE PLOTTED		
PROJ. NAME		NORTHFIELD-BERLIN		
PROJ. NO.		STP SIGN 9467		
SHEET		8 OF 39 SHEETS		

NOT TO SCALE



MATCH TO SHEET 5 OF 39 AT MM 02.390

MATCHLINE SEE BELOW

MATCHLINE SEE ABOVE

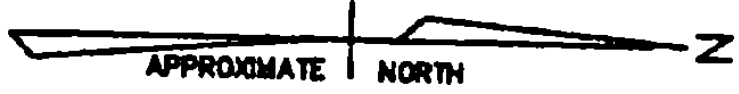
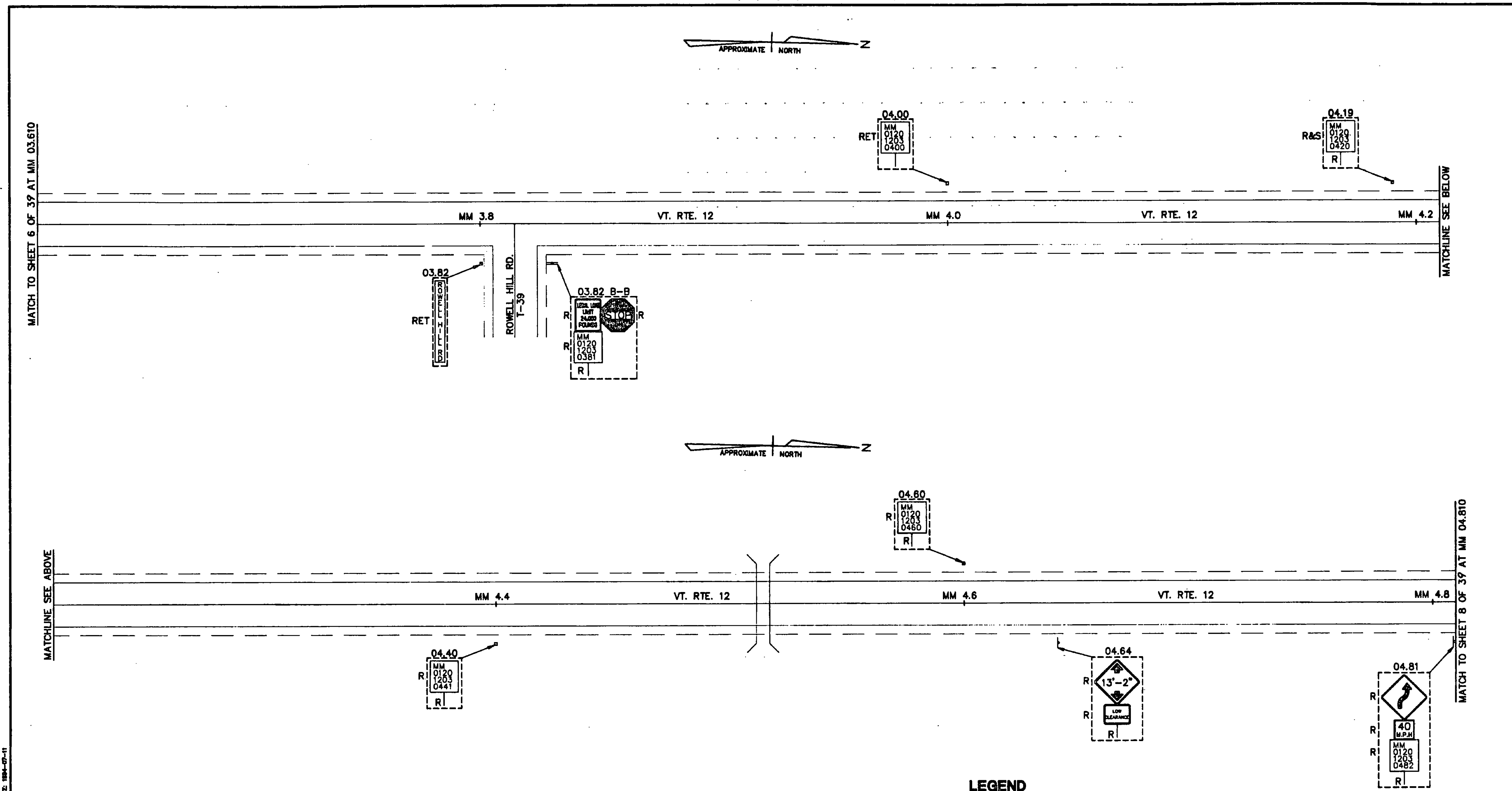
MATCH TO SHEET 7 OF 39 AT MM 03.610

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

NOT TO SCALE

EXISTING SIGNS IV	MM 02.390 TO MM 03.610 - (BERLIN)	
	SURVEYED BY	SUB/JHF DATE 9/93
	DRAWN BY	SAM DATE 9/93
	SQUAD LEADER	SJB
DESIGN FILE NO.		
PARM FILE	DATE PLOTTED	
PROJ. NAME	NORTHFIELD-BERLIN	
PROJ. NO.	STP SIGN 9487	
SHEET 6 OF 39 SHEETS		



MATCH TO SHEET 6 OF 39 AT MM 03.610

MATCHLINE SEE BELOW

MATCHLINE SEE ABOVE

MATCH TO SHEET 8 OF 39 AT MM 04.810

FILE NAME: 6-V75-SIGNFILES; BY: JF; DATE: 1984-07-11

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

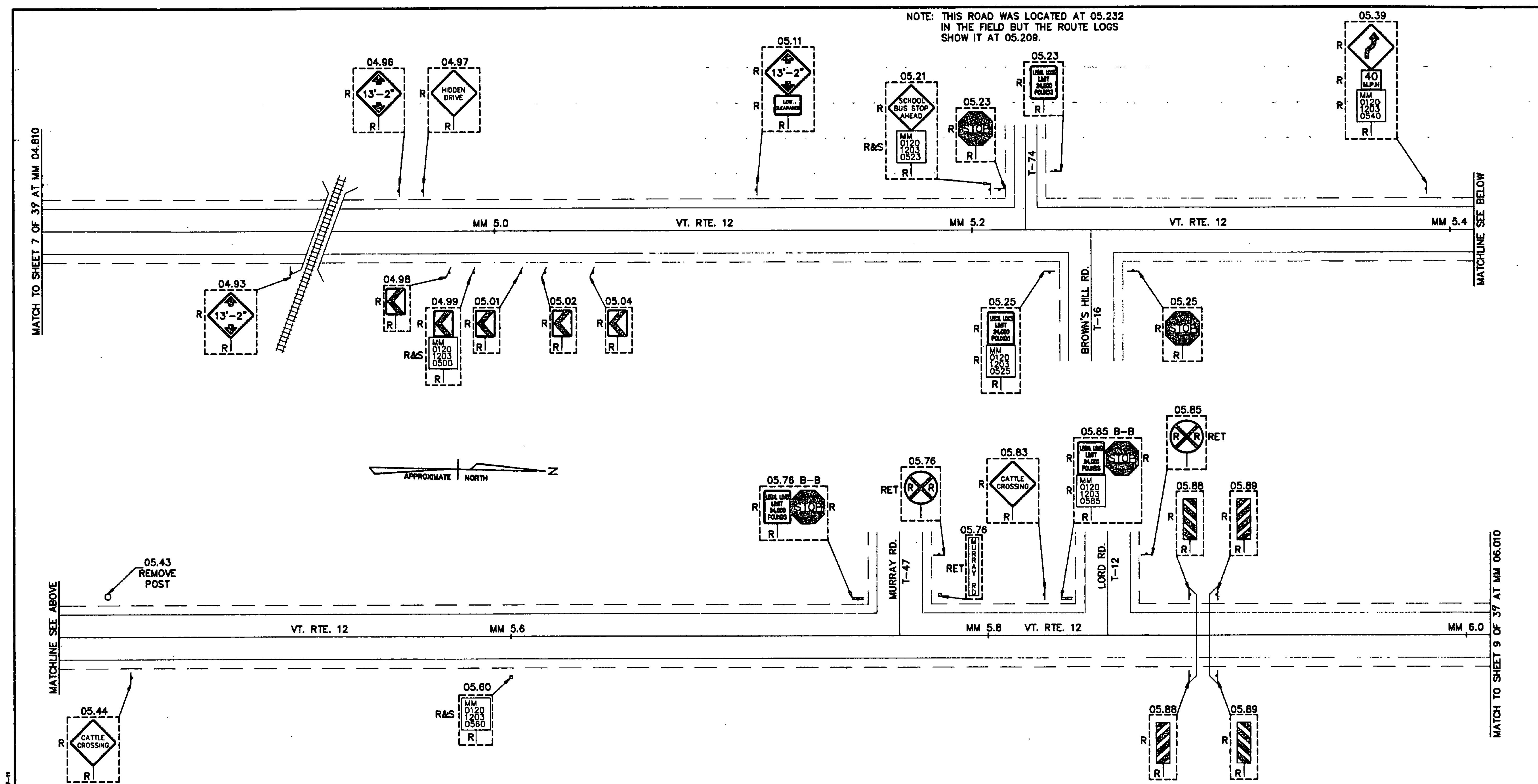
- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

**EXISTING
SIGNS
V**

MM 03.610 TO MM 04.810 - (BERLIN)

SURVEYED BY	SJB/JHF	DATE	9/93
DRAWN BY	SAM	DATE	9/93
SQUAD LEADER	SJB		
DESIGN FILE NO.			
SPARM FILE		DATE PLOTTED	
PROJ. NAME	NORTHFIELD-BERLIN		
PROJ. NO.	STP SIGN 9487		
SHEET	7	OF	39 SHEETS

NOT TO SCALE



NOTE: THIS ROAD WAS LOCATED AT 05.232 IN THE FIELD BUT THE ROUTE LOGS SHOW IT AT 05.209.



MATCH TO SHEET 7 OF 39 AT MM 04.810

MATCHLINE SEE BELOW

MATCHLINE SEE ABOVE

MATCH TO SHEET 9 OF 39 AT MM 06.010

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

- LEGEND**
- R** REMOVE EXISTING
 - N** NEW
 - RET** RETAIN
 - R&S** REMOVE AND SALVAGE
 - S** SALVAGED
 - B-B** BACK TO BACK

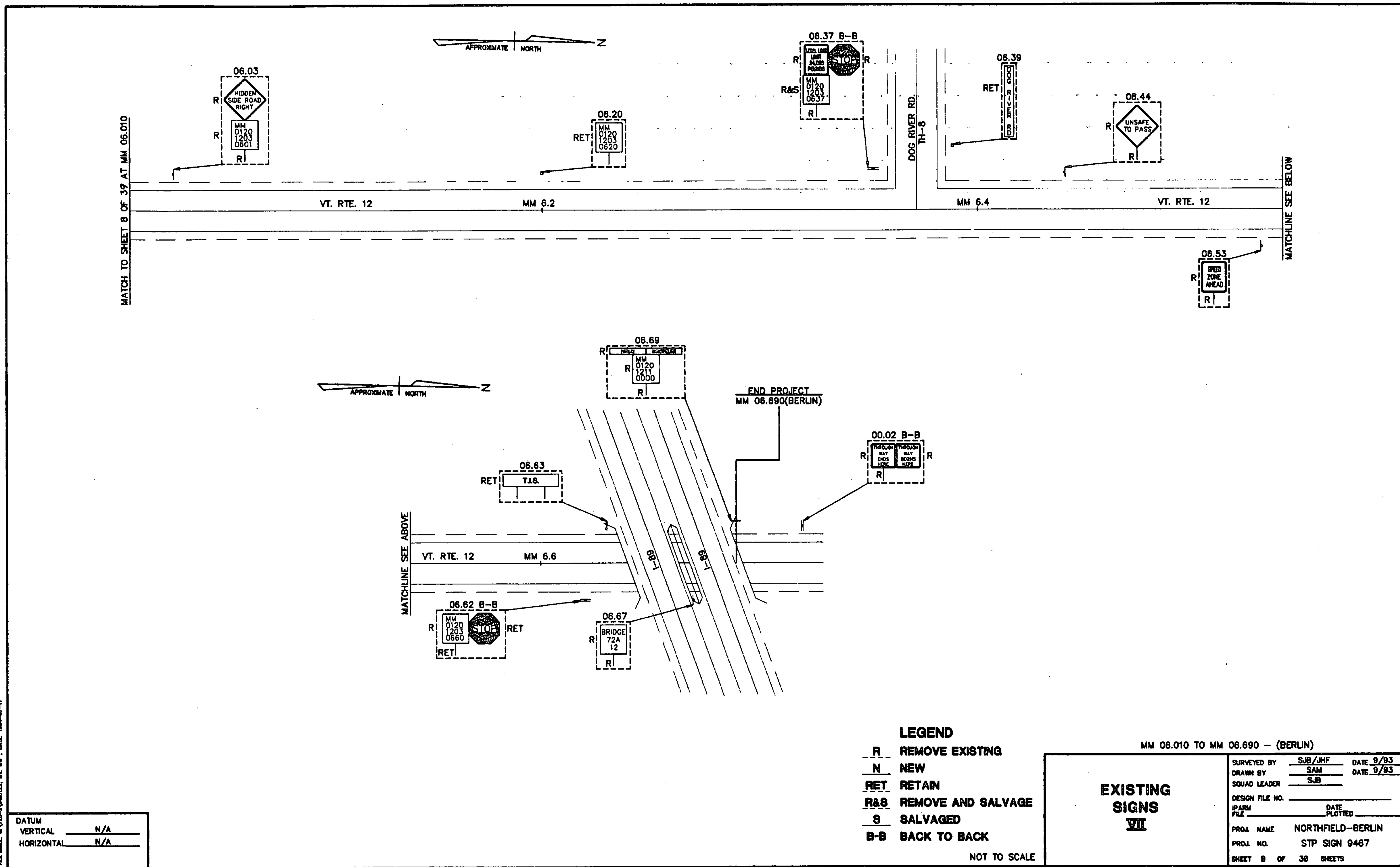
**EXISTING
SIGNS
VI**

NOT TO SCALE

MM 04.810 TO MM 06.010 - (BERLIN)

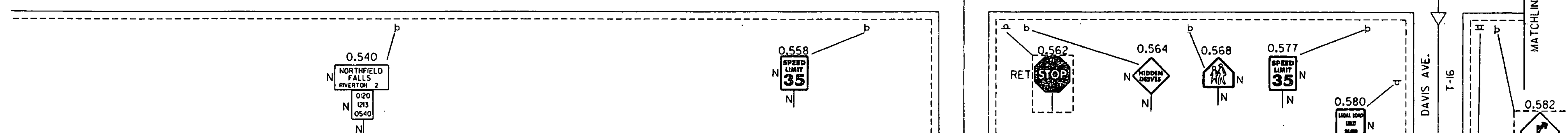
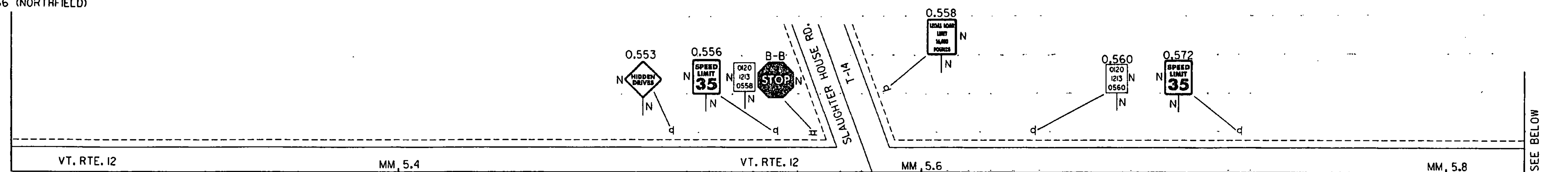
SURVEYED BY	SJB/JHF	DATE	9/93
DRAWN BY	SAM	DATE	9/93
SQUAD LEADER	SJB		
DESIGN FILE NO.		DATE PLOTTED	
PROJ. NAME	NORTHFIELD-BERLIN		
PROJ. NO.	STP SIGN 9487		
SHEET	8	OF	39 SHEETS

FILE NAME: 0572-A-WORKSHEET.DWG; DATE: 1993-09-11



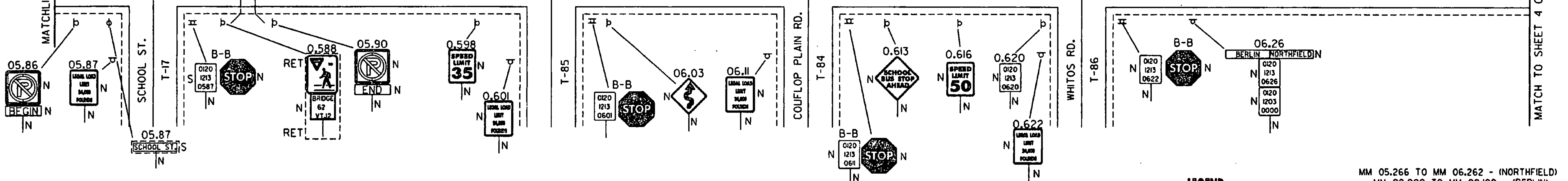
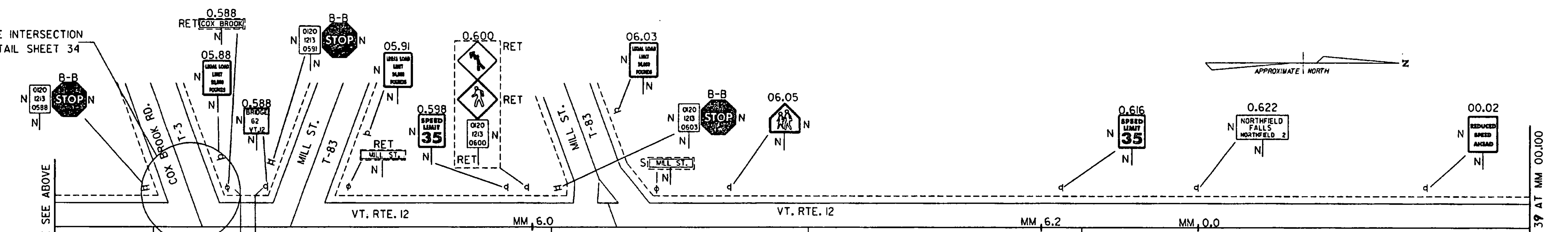
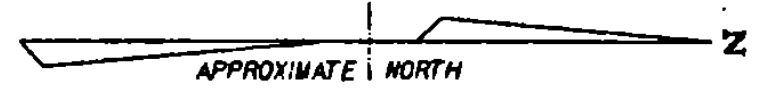
FILE NAME: G:\V728-2\MAPLE7.DWG : DATE: 8/24/93

BEGIN PROJECT
MM 05.266 (NORTHFIELD)



NOTE:
THIS ROAD WAS FOUND IN THE
FIELD AT 05.617 BUT IT WAS
NOT FOUND ON THE ROUTE LOGS.

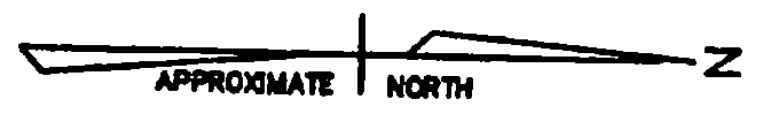
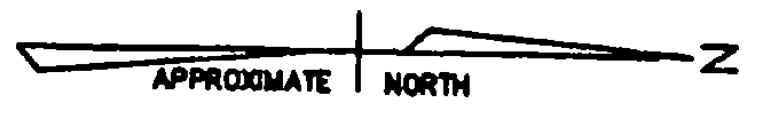
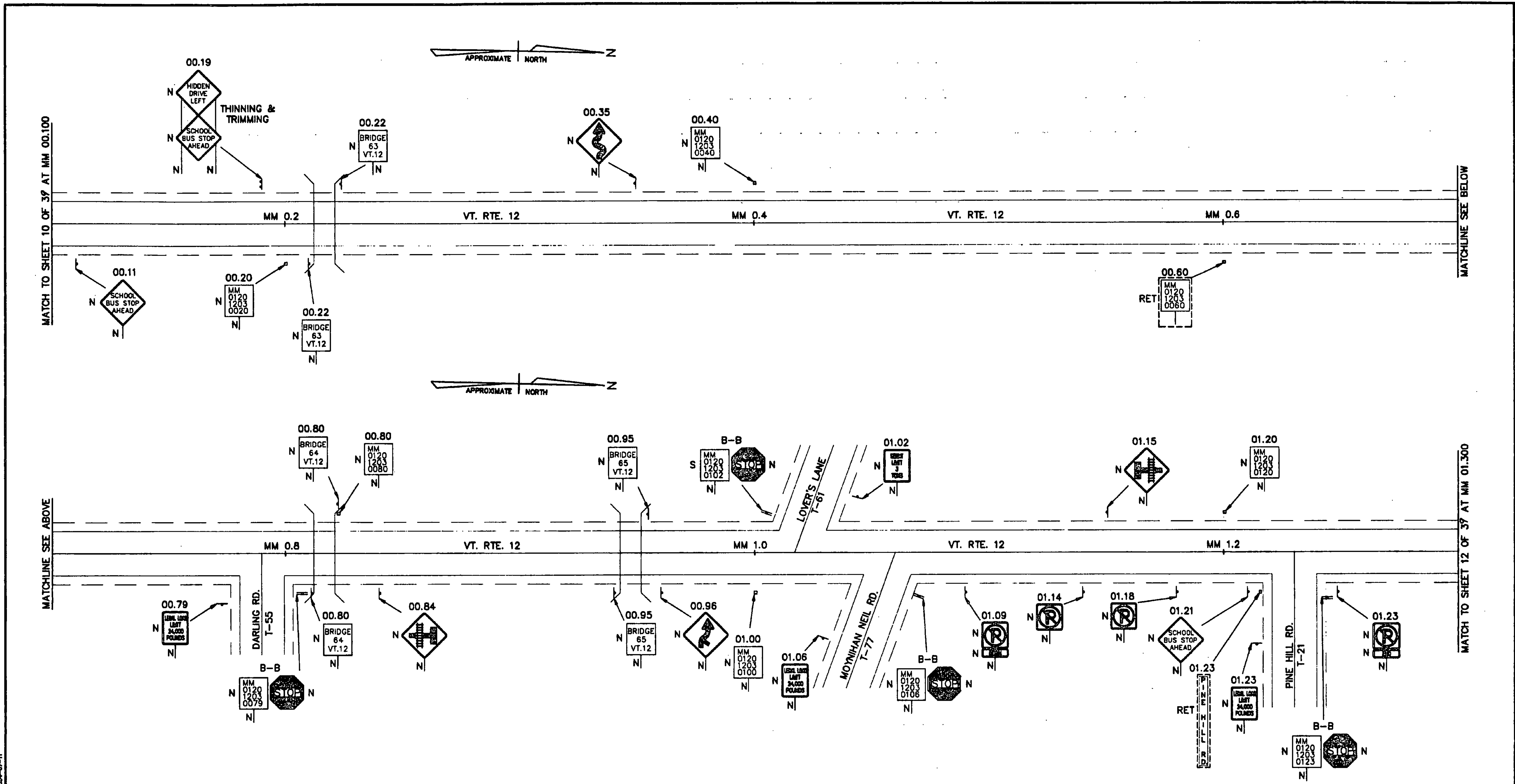
SEE INTERSECTION
DETAIL SHEET 34



NOTE:
MILE MARKER LOCATIONS FOR NORTHFIELD
ARE BASED ON BRIDGE 61 @ MM 05.055
MILE MARKER LOCATIONS FOR BERLIN
ARE BASED ON BRIDGE 64 @ MM 0.799

LEGEND
 R REMOVE EXISTING
 N NEW
 RET RETAIN
 SAS REMOVE AND SALVAGE
 S SALVAGED
 B-B BACK TO BACK
 NOT TO SCALE

NEW SIGNS	MM 05.266 TO MM 06.262 - (NORTHFIELD) MM 00.000 TO MM 00.100 - (BERLIN)	
	SURVEYED BY _____	DATE _____
	DRAWN BY JHK	DATE 12/95
	SQUAD LEADER _____	DATE _____
	DESIGN FILE NO. JRAE/JHK/NORFELD.DGN	FILE NORTHFD3.1
PROJ. NAME NORTHFIELD-BERLIN	PROJ. NO. STP SIGN 9467	
SHEET 10 OF 39 SHEETS		



MATCH TO SHEET 10 OF 39 AT MM 00.100

MATCHLINE SEE BELOW

MATCHLINE SEE ABOVE

MATCH TO SHEET 12 OF 39 AT MM 01.300

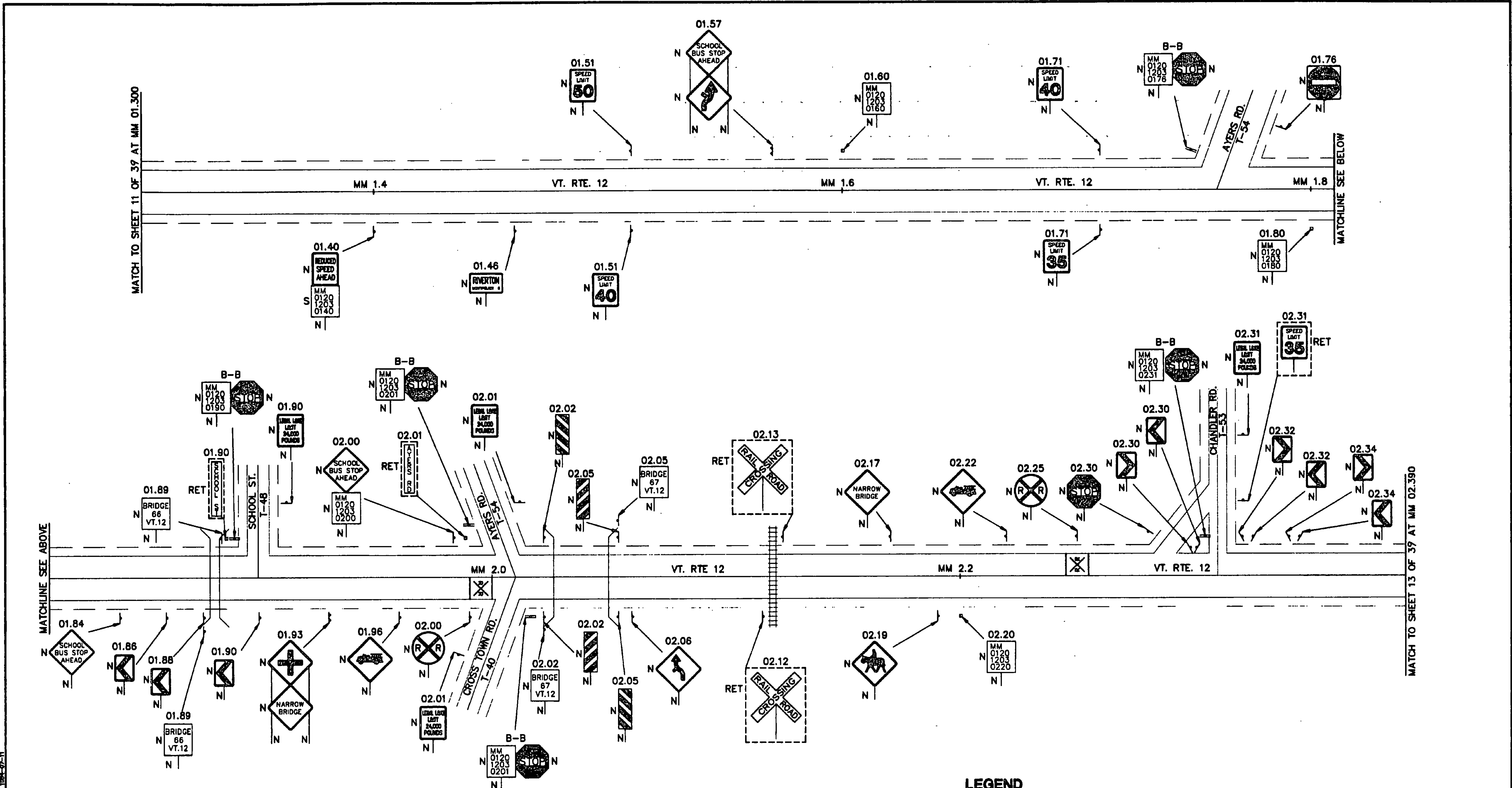
DATE: 01/25/93 BY: SJB DATE: 10/24/92

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK
- NOT TO SCALE

MM 00.100 TO MM 01.300 - (BERLIN)

NEW SIGNS	SURVEYED BY	SJB/JHF	DATE	11/93
	DRAWN BY	SAM	DATE	9/93
	SQUAD LEADER	SJB		
	DESIGN FILE NO.		DATE PLOTTED	
IPARM FILE				
PROJ. NAME	NORTHFIELD-BERLIN			
PROJ. NO.	STP SIGN 9467			
SHEET	11 OF 38 SHEETS			



MATCH TO SHEET 11 OF 39 AT MM 01.300

MATCHLINE SEE BELOW

MATCHLINE SEE ABOVE

MATCH TO SHEET 13 OF 39 AT MM 02.390

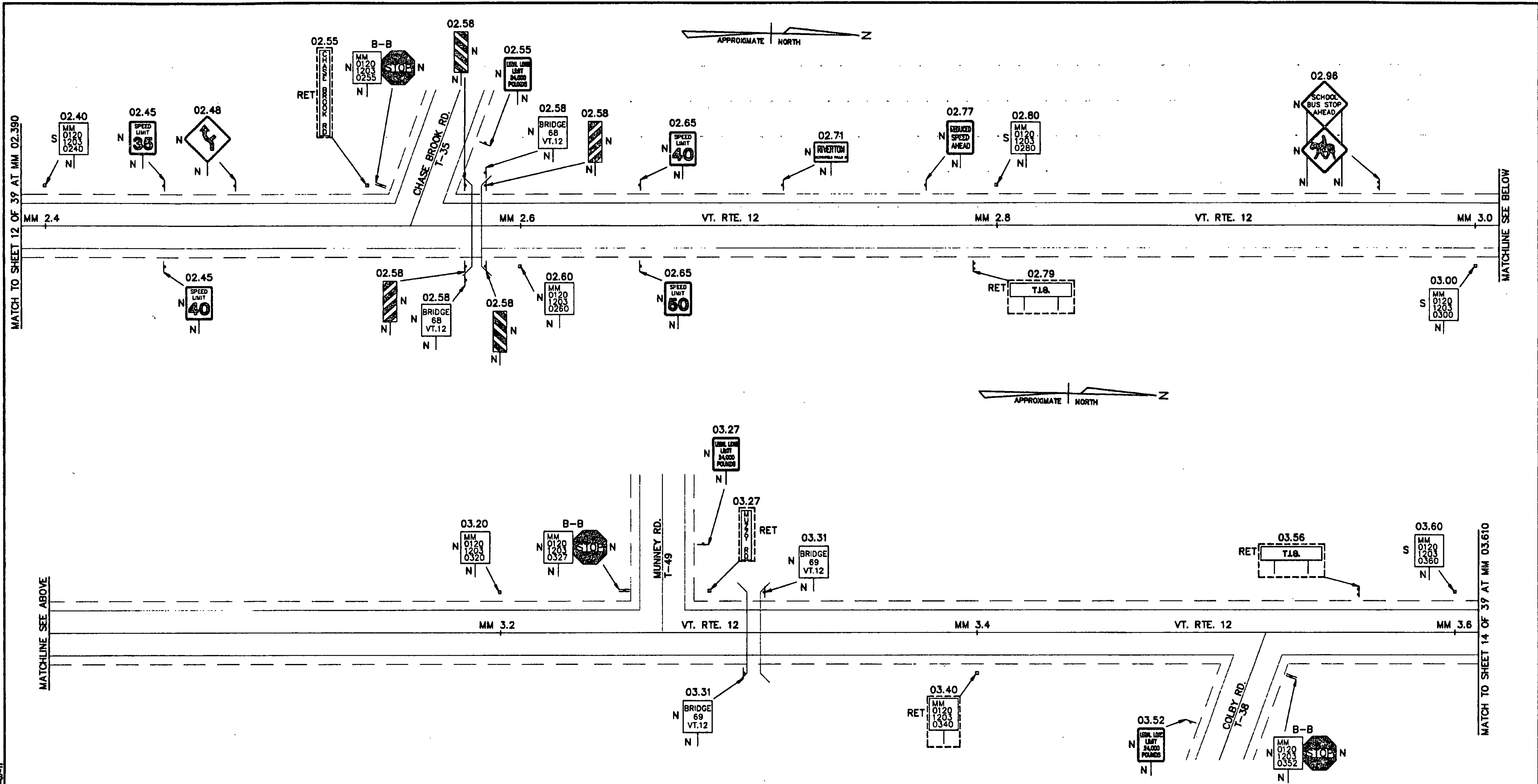
FILE NUMBER: 01.122 - CHANDLER RD. DATE: 10/84 - 97-11

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

NEW SIGNS	
III	
MM 01.300 TO MM 02.390 - (BERLIN)	
SURVEYED BY	SJB/JHF DATE 9/83
DRAWN BY	SAM DATE 9/83
SQUAD LEADER	SJB
DESIGN FILE NO.	
IPARM FILE	DATE PLOTTED
PROJ. NAME	NORTHFIELD-BERLIN
PROJ. NO.	STP SIGN 9487
SHEET 12 OF	39 SHEETS

NOT TO SCALE



MATCH TO SHEET 12 OF 39 AT MM 02.390

MATCHLINE SEE BELOW

MATCHLINE SEE ABOVE

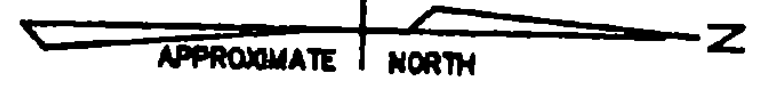
MATCH TO SHEET 14 OF 39 AT MM 03.610

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

NEW SIGNS		MM 02.390 TO MM 03.610 - (BERLIN)	
SURVEYED BY	SJB/JHF	DATE	8/93
DRAWN BY	SAM	DATE	8/93
SQUAD LEADER	SJB		
DESIGN FILE NO.		DATE PLOTTED	
IPARM FILE			
PROJ. NAME	NORTHFIELD-BERLIN		
PROJ. NO.	STP SIGN 9487		
SHEET	13	OF	39 SHEETS

NOT TO SCALE



MATCH TO SHEET 13 OF 39 AT MM 03.610

MATCHLINE SEE BELOW

MM 3.8 VT. RTE. 12 MM 4.0 VT. RTE. 12 MM 4.2

03.80
MM
0120
1263
0380
N

RET

03.82
N

ROWELL HILL RD.
T-39

03.82
N

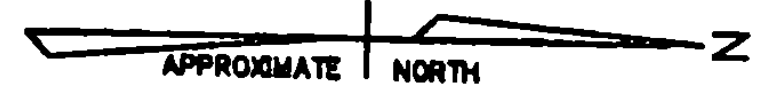
B-B
MM
0120
1263
0382
N



04.00
RET
MM
0120
1263
0400

04.20
S
MM
0120
1263
0420
N

MATCHLINE SEE ABOVE



MATCH TO SHEET 15 OF 39 AT MM 04.810

MM 4.4 VT. RTE. 12 MM 4.6 VT. RTE. 12 MM 4.8

04.40
N
MM
0120
1263
0440

04.51
N

04.51
N
BRIDGE
70
VT.12

04.51
N

04.80
N
MM
0120
1263
0480

04.51
N

04.51
N
BRIDGE
70
VT.12

04.51
N

04.60
N
MM
0120
1263
0460

04.70
N
40
M.P.H.
N

04.80
N
13'-2"

LEGEND

- R REMOVE EXISTING
- N NEW
- RET RETAIN
- R&S REMOVE AND SALVAGE
- S SALVAGED
- B-B BACK TO BACK

MM 03.610 TO MM 04.810 - (BERLIN)

NEW SIGNS V	SURVEYED BY	SJB/JHF	DATE	9/93
	DRAWN BY	TLB	DATE	9/93
	SQUAD LEADER	SJB		
	DESIGN FILE NO.			
IPARM FILE		DATE PLOTTED		
PROJ. NAME	NORTHFIELD-BERLIN			
PROJ. NO.	STP SIGN 9467			
SHEET 14 OF 39 SHEETS				

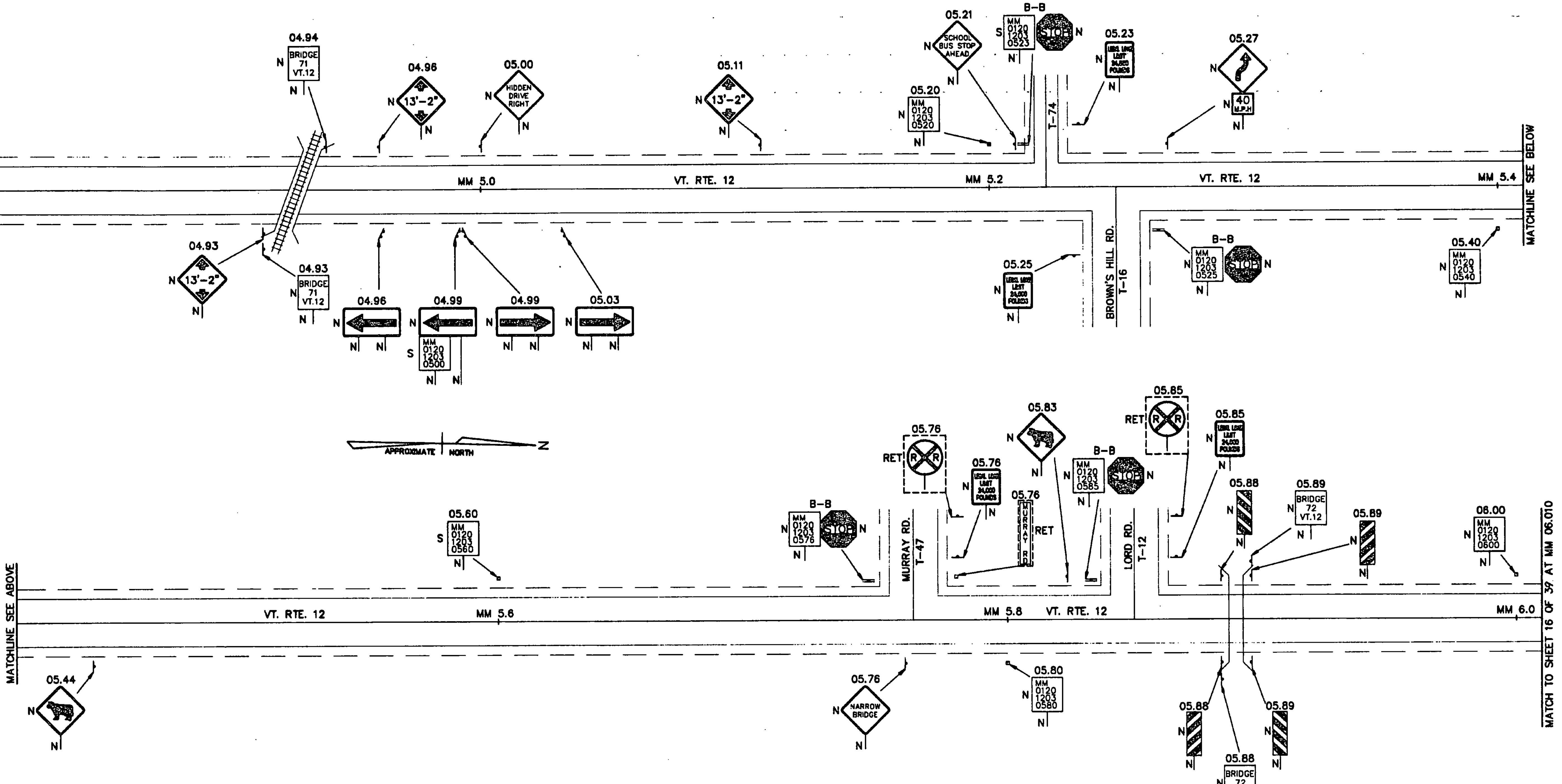
NOT TO SCALE

FILE NAME: 0120-1263-0382.DWG DATE: 08-07-91

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

MATCH TO SHEET 14 OF 39 AT MM 04.810

NOTE: THIS ROAD WAS LOCATED AT 05.232
IN THE FIELD BUT THE ROUTE LOGS
SHOW IT AT 05.209.



MATCHLINE SEE ABOVE

MATCH TO SHEET 16 OF 39 AT MM 06.010

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

LEGEND

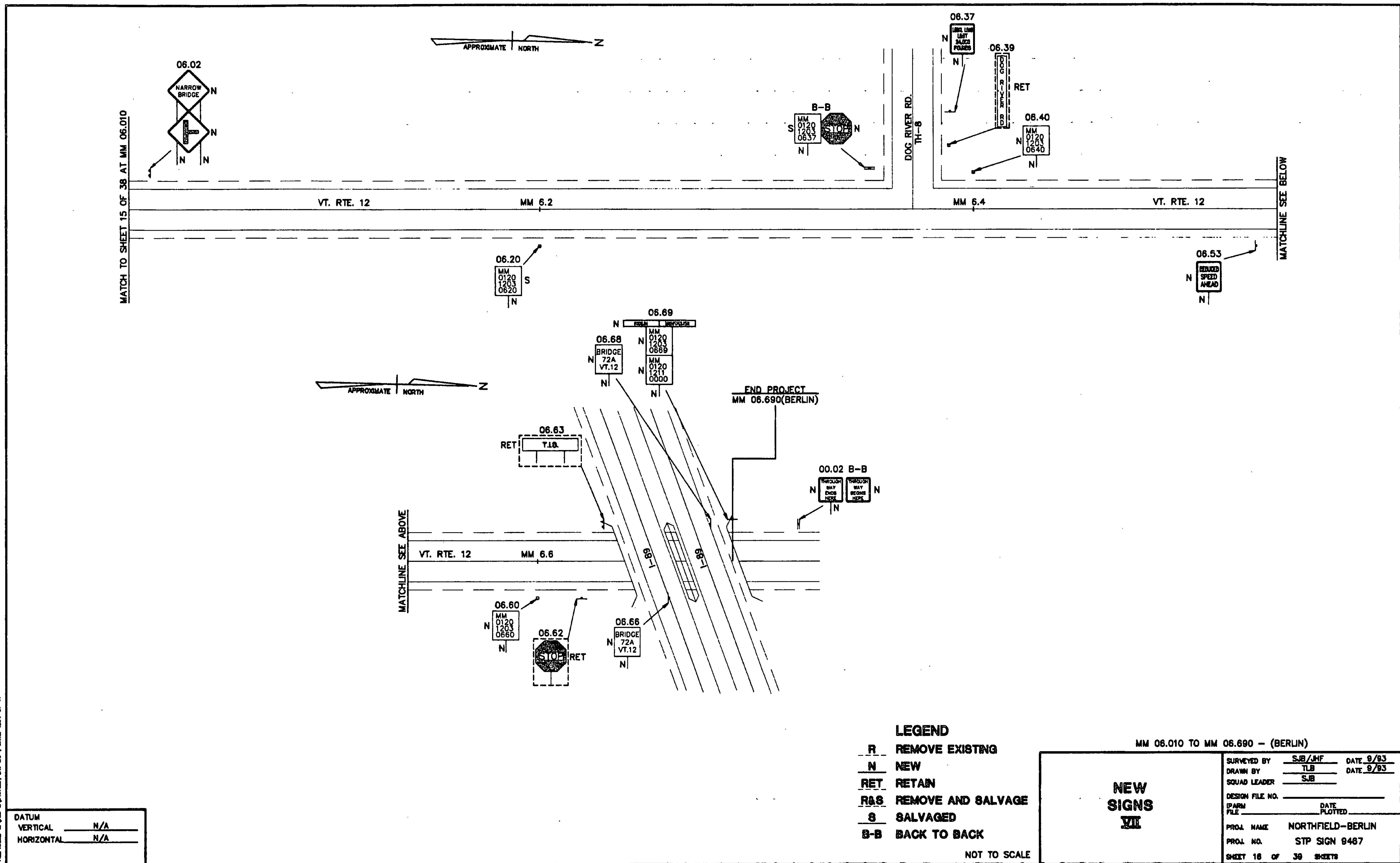
R	REMOVE EXISTING
N	NEW
RET	RETAIN
R&S	REMOVE AND SALVAGE
S	SALVAGED
B-B	BACK TO BACK

NEW SIGNS VI

MM 04.810 TO MM 06.010 - (BERLIN)

SURVEYED BY	SJB/JMF	DATE	8/93
DRAWN BY	SAM	DATE	9/93
SQUAD LEADER	SJB		
DESIGN FILE NO.			
DATE PLOTTED			
PROJ. NAME	NORTHFIELD-BERLIN		
PROJ. NO.	STP SIGN 9487		
SHEET	15	OF	39 SHEETS

NOT TO SCALE



DATE: 08-07-83
 DATUM
 VERTICAL N/A
 HORIZONTAL N/A

LEGEND
 R REMOVE EXISTING
 N NEW
 RET RETAIN
 R&S REMOVE AND SALVAGE
 S SALVAGED
 B-B BACK TO BACK
 NOT TO SCALE

NEW SIGNS VI		MM 06.010 TO MM 06.690 - (BERLIN)	
		SURVEYED BY SJB/JHF	DATE 9/83
		DRAWN BY TLB	DATE 9/83
		SQUAD LEADER SJB	
		DESIGN FILE NO.	
		DATE PLOTTED	
		PROJ. NAME NORTHFIELD-BERLIN	
		PROJ. NO. STP SIGN 9487	
		SHEET 16 OF 39 SHEETS	











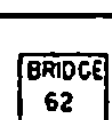
TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NEW SIGN POSTS															REMARKS	SIGN DETAIL					
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL		FTG. SIZE	SIGN FRAME	DETAIL ON SHEET NUMBER		STD. SHEET NUMBER					
			1.2	2.0	3.0	3.0" Ø	4.0" Ø	FOUND-A-TION		3" Ø	3.5" Ø	4.0" Ø	5.0" Ø	POST SIZE	WEIGHT	24"	30"													
VT. RTE. 12 NORTFIELD																														
05.40 RT.		30" X 18"	3.8																										E -128B	
		6" X 8"	.3							1				X															E -138	
05.53 LT.		30" X 30"	6.3							1					X											35				
05.58 LT.		6" X 8" 30" X 30"	.3 6.3							1				X															E -138 E -143	
05.58 RT.		24" X 30"	5							1				X															E -142	
05.58 LT.		24" X 30"	5							1				X															E -141	
05.60 LT.		6" X 8"	.3							1				X															E -138	
05.64 RT.		30" X 30"	6.3							1				X												35				
05.68 RT.		36" X 36"	9							1				X												37				
05.72 LT.		24" X 30"	5							1				X															E -142	
TOTALS			SF.	SF.	EA.	SF.					LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.			LBS.	EA.	EA.					
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".			52.6																											

TRAFFIC SIGN SUMMARY SHEET

DRAWN BY JHK DATE 11/95
 SQUAD LEADER _____
 DESIGN FILE NO. NORTHELD.DGN
 IPARM FILE NORTHELD4.I DATE PLOTTED _____
 PROJ. NAME NORTHFIELD-BERLIN
 PROJ. NO. STP SIGN 9467
 SHEET 17 OF 39 SHEETS

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NEW SIGN POSTS													REMARKS	SIGN DETAIL					
			"A"	"B"	SALV. SIGN	SALV. T.J.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL		FTG. SIZE 24" 30"		SIGN FRAME	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER			
										1.12	2.0	3.0	3.0" ϕ	4.0" ϕ	FOUND- ALUMINUM	3" ϕ	3.5" ϕ	4.0" ϕ	5.0" ϕ	POST SIZE						WEIGHT		
	VT. RTE. 12 NORTFIELD																											
05.77 RT.		24' X 30'	5							1				X														E-142.
05.80 RT.		24' X 30'	5							1				X														E-141
05.80 RT.		30" X 30"	6.3			1				1				X												SALVAGED FROM 05.80 RT. BACK TO BACK	E-143	
05.86 RT.		24" X 24"	4							1				X												INSTALL SIGNS MINIMUM OF 10 FEET IN FRONT OF UTILITY POLE	E-143	
		24" X 12"	2							1				X														E-143
05.87 RT.						1				1				X												SALVAGED FROM 05.87 RT.		
05.87 RT.		24' X 30'	5							1				X														E-141
05.87 RT.		30" X 30"	6.3			1				1				X														E-141
05.88 LT.		6" X 8" 30" X 30"	.3 6.3							1				X												SALVAGED FROM 05.88 LT. BACK TO BACK	E-143	
05.88 LT.		24' X 30'	5							1				X														E-141
05.88 RT.		6" X 8"	.3																							MOUNTED ON RETAINED POST	E-134	
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".			SF.	SF.	EA.	SF.																						
TOTALS			45.5		3																							

DRAWN BY _____ JHK DATE 11/95
 SQUAD LEADER _____
 DESIGN FILE NO. NORTFIELD.DGN
 IPARM _____ DATE _____
 FILE NORTFD5.I PLOTTED _____
 PROJ. NAME NORTFIELD-BERLIN
 PROJ. NO. STP SIGN 9467
 SHEET 18 OF 39 SHEETS

TRAFFIC SIGN SUMMARY SHEET

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NO. OF POSTS	NEW SIGN POSTS														REMARKS	SIGN DETAIL					
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.		FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL		FTG. SIZE		SIGN FRAME		DETAIL ON SHEET NUMBER	STD. SHEET NUMBER				
										1.12	2.0	3.0	3.0"Ø	4.0"Ø	FOUNDA-TION	3'Ø	3.5'Ø	4.0'Ø	5.0'Ø	POST SIZE	WEIGHT	24"					30"			
	VT. RTE. 12 NORTFIELD																													
05.88 LT.		6' X 8'	.3					1	X																					E-134
05.90 RT.		24' X 24'	4																											E-143
		24' X 12'	2					1			X																			E-140
05.91 LT.	 	6' X 8' 30' X 30'	.3 6.3					1			X																		BACK TO BACK	E-138 E-143
05.91 LT.		24' X 30'	5					1			X																			E-141
05.98 RT.		24' X 30'	5					1			X																			E-142
05.98 LT.		24' X 30'	5					1			X																			E-142
06.00 LT.		6' X 8'	.3																										MOUNT ON RETAINED POST	E-138
06.01 RT.		24' X 30'	5					1			X																			E-141
TOTALS			33.2								310																			

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".

TRAFFIC SIGN
 SUMMARY
 SHEET


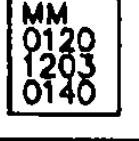
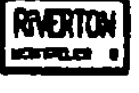




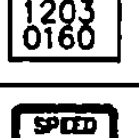




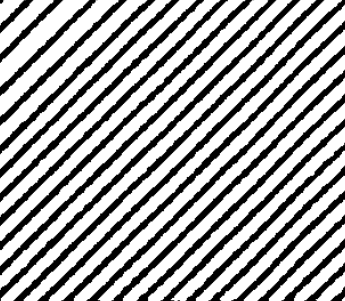
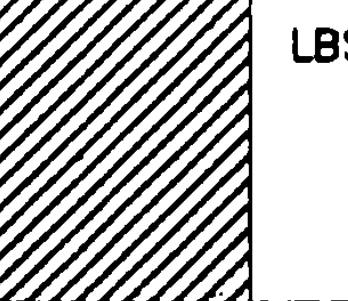

DRAWN BY JHK DATE 11/95
 SQUAD LEADER
 DESIGN FILE NO. NORTFIELD.DGN
 IPARM FILE NORTHE06.1 DATE PLOTTED
 PROJ. NAME NORTFIELD-BERLIN
 PROJ. NO. STP SIGN 9467
 SHEET 19 OF 39 SHEETS

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NEW SIGN POSTS												REMARKS	SIGN DETAIL		
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL			DETAIL ON SHEET NUMBER	STD. SHEET NUMBER	
										1.12	2.0	3.0	3.0"φ	4.0"φ	3"φ	3.5"φ	4.0"φ	5.0"φ	POST SIZE	WEIGHT				FTG. SIZE 24"
VT. RTE. 12 NORTHFIELD																								
06.20 RT.		6" x 8"	.3						1	X													E-138	
06.22 RT.		24" x 30"	5						1			X											E-141	
06.22 LT.		30" x 18"	3.8						1			X											E-128B	
06.22 RT.		6" x 8" 30" x 30"	.3 6.3						1			X											E-138 E-143	
06.26 RT.		60" x 7 1/2"	3.1																				E-124	
		6" x 8"	.3																				E-138	
		6" x 8"	.3						1			X											SALVAGED FROM 06.26 RT.	
VT. RTE. 12 BERLIN																								
00.02 LT.		24" x 30"	5						1			X											E-142	
00.11 RT.		30" x 30"	6.3						1			X											35	
00.19 LT.		30" x 30"	6.3																				35	
		30" x 30"	6.3						2			X											THINNING & TRIMMING 35	
00.20 RT.		6" x 8"	.3						1	X													E-138	
00.22 RT.		6" x 8"	.3						1	X													E-134	
00.22 LT.		6" x 8"	.3						1	X													E-134	
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".			SF.	SF.	EA.	SF.					LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.	LBS.	EA.	EA.	
TOTALS			44.2								368													

TRAFFIC SIGN SUMMARY SHEET V
 DRAWN BY: SAM
 SQUAD LEADER: SB
 DESIGN FILE NO.:
 IPARM FILE: DATE PLOTTED:
 PROJ. NAME: NORTHFIELD-BERLIN
 PROJ. NO.: STP SIGN 9487
 SHEET: 21 OF 39 SHEETS.

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS							NEW SIGN POSTS											REMARKS	SIGN DETAIL					
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL			DETAIL ON SHEET NUMBER	STD. SHEET NUMBER				
										1.12	2.0	3.0	3.0" Ø	4.0" Ø	3" Ø	3.5" Ø	4.0" Ø	5.0" Ø	POST SIZE	WEIGHT				FTG. SIZE 24"	30"	SIGN FRAME	
	VT. RTE. 12 BERLIN																										
01.40 RT.		24" X 30"	5																				E-142				
					1						X										SALVAGED FROM 01.41 RT.						
01.46 RT.		30" X 18"	3.8									X											E-128B				
01.51 RT.		24" X 30"	5									X											E-142				
01.51 LT.		24" X 30"	5									X											E-142				
01.57 LT.		30" X 30"	6.3																			35					
		30" X 30"	6.3									X										36					
01.60 LT.		6" X 8"	.3							X													E-138				
01.71 RT.		24" X 30"	5									X											E-142				
01.71 LT.		24" X 30"	5									X											E-142				
01.76 LT.		6" X 8" 30" X 30"	.3 6.3									X									BACK TO BACK		E-138 E-143				
01.76 LT.		30" X 30"	6.3									X											E-143				
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 ". TOTALS			SF. 54.8	SF.	EA. 1	SF.			LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.			LBS.	EA.	EA.			TRAFFIC SIGN SUMMARY SHEET VII	DRAWN BY <u>SAM</u> DATE <u>11/83</u> SQUAD LEADER <u>SMB</u> DESIGN FILE NO. _____ IPASM FILE _____ DATE PLOTTED _____ PROJ. NAME NORTHFIELD-BERLIN PROJ. NO. STP SIGN 9467 SHEET 24 of 39 SHEETS

FILE BASED ON 1203-1203-01-12 BY: JAF : DATE: 10-24-82

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS		EXIST. POSTS		NEW SIGN POSTS															REMARKS	SIGN DETAIL				
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL				SIGN FRAME	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER		
										1.12	2.0	3.0	3.0"Ø	4.0"Ø	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT	FTG. SIZE						
													24"	30"													
	VT. RTE. 12 BERLIN																										
01.80 RT.		6" X 8"	.3						1	X															E-138		
01.84 RT.		30" X 30"	6.3						1			X													35		
01.86 RT.		18" X 24"	3						1			X													E-150		
01.88 RT.		18" X 24"	3						1			X													E-150		
01.89 RT.		6" X 8"	.3						1	X															E-134		
01.89 LT.		6" X 8"	.3						1	X															E-134		
01.90 LT.		6" X 8" 30" X 30"	.3 6.3						1			X												BACK TO BACK	E-138 E-143		
01.90 RT.		18" X 24"	3						1			X													E-150		
01.90 LT.		24" X 30"	5						1			X													E-141		
01.93 RT.		30" X 30"	6.3						2			X													37		
01.96 RT.		30" X 30"	6.3						1			X													35		
01.96 RT.		30" X 30"	6.3						1			X													38		
02.00 LT.		30" X 30"	6.3						1			X													35		
02.00 RT.		6" X 8"	.3						1			X													E-138		
02.00 RT.		36" DIA.	7.1						1			X													E-190		
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".			SF.	SF.	EA.	SF.				LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.				LBS.	EA.	EA.	TRAFFIC SIGN SUMMARY SHEET IX DRAWN BY: <u>SAM</u> DATE: <u>11/83</u> SQUAD LEADER: <u>SJH</u> DESIGN FILE NO.: _____ DATE PLOTTED: _____ FILE: _____ PROJ. NAME: NORTHFIELD-BERLIN PROJ. NO.: STP SIGN 9467 SHEET 25 OF 38 SHEETS	
TOTALS			60.4							486																	

FILE NAME: 0120-1203-0190.DWG, DTG: 11/83, DATE: 11/83

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS							NEW SIGN POSTS														REMARKS	SIGN DETAIL					
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL					DETAIL ON SHEET NUMBER	STD. SHEET NUMBER				
										1.12	2.0	3.0	3.0"	4.0"	3"	3.5"	4.0"	5.0"	POST SIZE	WEIGHT	FTG. SIZE		SIGN FRAME							
	VT. RTE. 12 BERLIN																													
03.27 LT.		24" x 30"	5							1			X																	E-141
03.31 RT.		6" x 8"	.3							1	X																			E-134
03.31 LT.		6" x 8"	.3							1	X																			E-134
03.52 RT.		24" x 30"	5							1			X																	E-141
03.52 RT.		6" x 8" 30" x 30"	.3 6.3							1			X																BACK TO BACK	E-138 E-143
03.60 LT.					1					1	X																		SALVAGED FROM 03.59 RT.	
03.80 RT.		6" x 8"	.3							1	X																			E-138
03.82 RT.		24" x 30"	5							1			X																	E-141
03.82 RT.		6" x 8" 30" x 30"	.3 6.3							1			X																BACK TO BACK	E-138 E-143
04.20 RT.					1					1	X																		SALVAGED FROM 04.19 LT.	
04.40 LT.		6" x 8"	.3							1	X																			E-138
04.51 RT.		12" x 36"	3							1			X																	E-120
04.51 RT.		6" x 8"	.3							1	X																			E-134
04.51 LT.		12" x 36"	3							1			X																	E-120
04.51 RT.		12" x 36"	3							1			X																	E-120
04.51 LT.		6" x 8"	.3							1	X																			E-134
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 ".			SF.	SF.	EA.	SF.				LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.				LBS.	EA.	EA.			TRAFFIC SIGN SUMMARY SHEET XIII DRAWN BY <u>SAH</u> DATE <u>11/83</u> SQUAD LEADER <u>SJB</u> DESIGN FILE NO. _____ IPARM FILE _____ PROJ. NAME <u>NORTHFIELD-BERLIN</u> PROJ. NO. <u>STP SIGN 9467</u> SHEET <u>29</u> OF <u>30</u> SHEETS		
TOTALS			42		2					442																				

FILE MADE BY: VRS-PLANNING BY: JRP DATE: 11-83-83






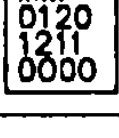
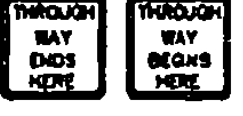
TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS						EXIST. POSTS		NEW SIGN POSTS														REMARKS	SIGN DETAIL					
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL		FR. SIZE		SIGN FRAME	DETAIL ON SHEET NUMBER		STD. SHEET NUMBER					
										1.12	2.0	3.0	3.0"φ	4.0"φ	3"φ	3.5"φ	4.0"φ	5.0"φ	POST SIZE	WEIGHT	24"	30"									
	VT. RTE. 12 BERLIN																														
04.60 RT.		6" x 8"	.3							1	X																				E-138
04.70 RT.		30" x 30"	6.3																												36
04.80 RT.		30" x 30"	6.3							1					X																E-152
04.80 LT.		6" x 8"	.3							1	X																				E-138
04.93 RT.		30" x 30"	6.3							1					X																37
04.93 RT.		6" x 8"	.3							1	X																				E-134
04.94 RT.		6" x 8"	.3							1	X																				E-134
04.96 RT.		48" x 24"	8							2					X																E-152
04.96 LT.		30" x 30"	6.3							1					X																37
04.99 RT.		48" x 24"	8																												E-152
					1					2					X																SALVAGED FROM 04.99 RT.
04.99 RT.		48" x 24"	8							2					X																E-152
05.00 LT.		30" x 30"	6.3							1					X																35
05.03 RT.		48" x 24"	8							2					X																E-152
05.11 LT.		30" x 30"	6.3							1					X																37
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 ".			SF.	SF.	EA.	SF.				LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.			LBS.	EA.	EA.			TRAFFIC SIGN SUMMARY SHEET XIV		DRAWN BY: <u>SAM</u> DATE: <u>11/83</u> SQUAD LEADER: <u>SB</u> DESIGN FILE NO. _____ IPARM FILE _____ PROJ. NAME: <u>NORTHFIELD-BERLIN</u> PROJ. NO.: <u>STP SIGN 0467</u> SHEET <u>30</u> OF <u>39</u> SHEETS		
TOTALS			73.3		1					820																					

TRAFFIC SIGN SUMMARY SHEET

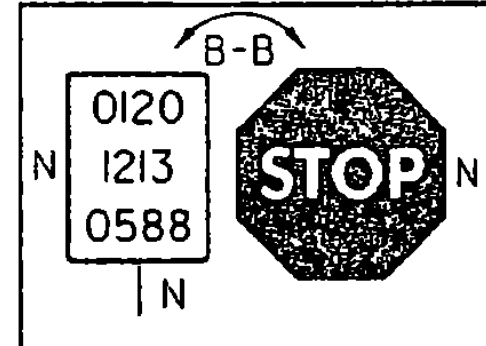
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS						EXIST. POSTS		NEW SIGN POSTS																REMARKS	SIGN DETAIL								
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL		FTG. SIZE	SIGNAL FRAME	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER											
										1.12	2.0	3.0	3.0"φ	4.0"φ	3"φ	3.5"φ	4.0"φ	5.0"φ	POST SIZE	WEIGHT	24"					30"										
	VT. RTE. 12 BERLIN																																			
05.85 LT.		6" x 8" 30" x 30"	.3 6.3							1			X																						BACK TO BACK	E-138 E-143
05.85 LT.		24" x 30"	5							1			X																						E-141	
05.88 RT.		12" x 36"	3							1			X																						E-120	
05.88 RT.		6" x 8"	.3							1	X																								E-134	
05.88 LT.		12" x 36"	3							1			X																						E-120	
05.89 RT.		12" x 36"	3							1			X																						E-120	
05.89 LT.		12" x 36"	3							1			X																						E-120	
05.89 LT.		6" x 8"	.3							1	X																								E-134	
06.00 LT.		6" x 8"	.3							1	X																								E-138	
06.02 LT.		30" x 30"	6.3										X																					35		
		30" x 30"	6.3							2			X																					37		
06.20 RT.					1					1	X																								SALVAGED FROM 06.20 LT.	
06.37 LT.		30" x 30"	6.3		1					1			X																						SALVAGED FROM 06.37 LT. BACK TO BACK	E-143
06.37 LT.		24" x 30"	5							1			X																						E-141	
06.40 LT.		6" x 8"	.3							1	X																								E-138	
06.53 RT.		24" x 30"	5							1			X																						E-142	
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 ".			SF.	SF.	EA.	SF.	/			LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.	/	LBS.	EA.	EA.	TRAFFIC SIGN SUMMARY SHEET LVI		DRAWN BY: SAM SQUAD LEADER: SJR DESIGN FILE NO. _____ (P&M FILE) _____ DATE PLOTTED: _____ PROJ. NAME: NORTHFIELD-BERLIN PROJ. NO.: STP SIGN 9467 SHEET 32 OF 39 SHEETS										
TOTALS			53.7		2		/			502						/		/		/																

TRAFFIC SIGN SUMMARY SHEET

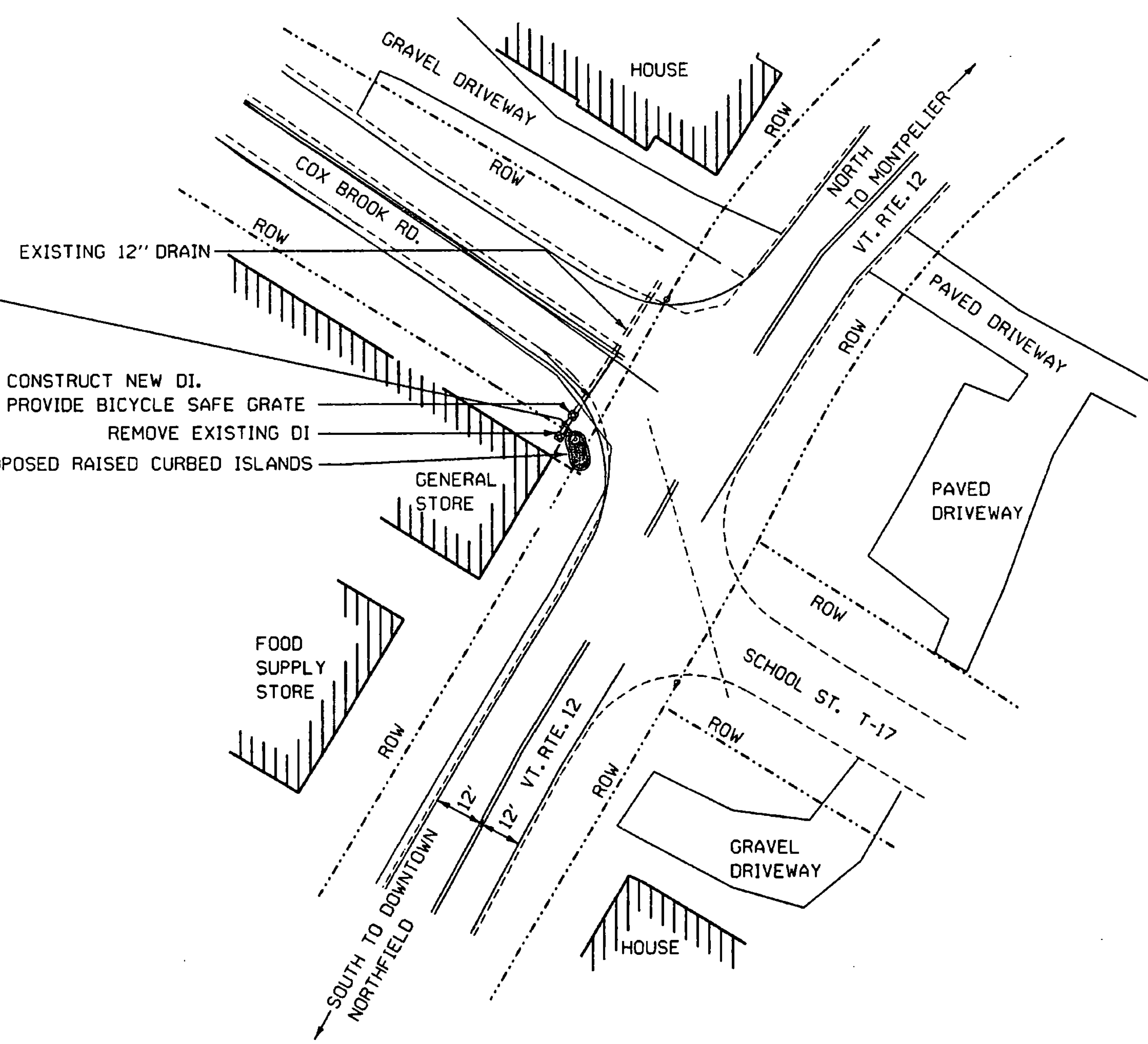
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS		EXIST. POSTS		NEW SIGN POSTS															REMARKS	SIGN DETAIL						
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL		FTG. SIZE		SIGN FRAME	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER				
										1.12	2.0	3.0	3.0"Ø	4.0"Ø	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT						24"	30"		
	VT. RTE. 12 BERLIN																												
06.60 RT.		6" x 8"	.3					1	X																			E-138	
06.66 RT.		6" x 8"	.3					1	X																			E-134	
06.68 LT.		6" x 8"	.3					1	X																			E-134	
06.69 LT.		60" x 7 1/2"	3.1																									E-124	
		6" x 8"	.3																									E-138	
		6" x 8"	.3					1			X																	E-138	
	VT. RTE. 12 MONTPELIER																												
00.02 LT.		2 @ 24" x 24"	8					1			X															BACK TO BACK	E-141 E-141		
	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".	TOTALS	12.6																										

TRAFFIC SIGN SUMMARY SHEET XVII

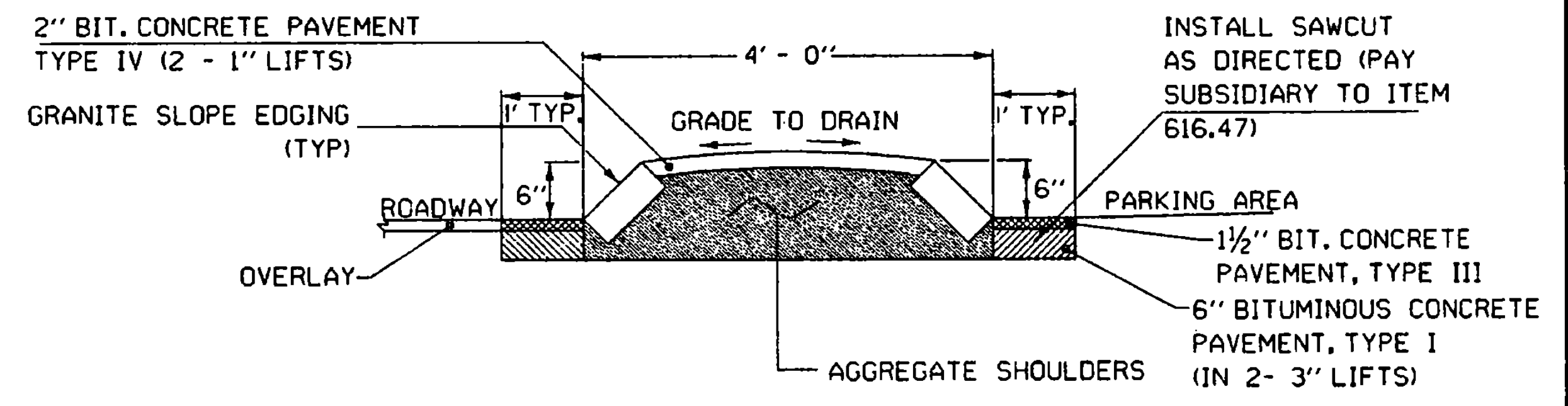
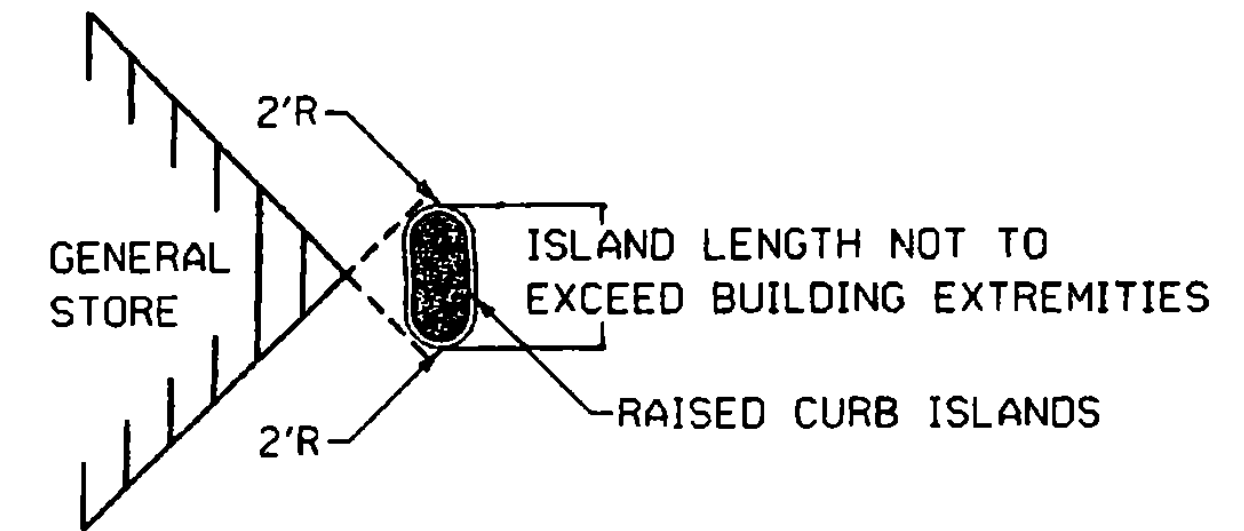
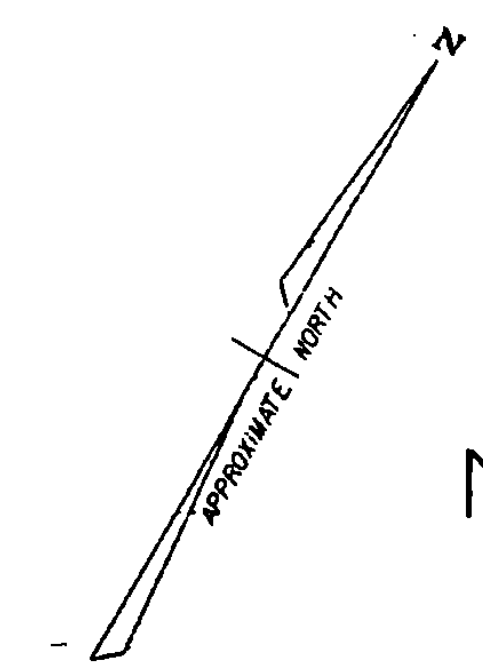
DRAWN BY SAM DATE 11/93
 SQUAD LEADER SES
 DESIGN FILE NO.
 (PAF) FILE DATE PLOTTED
 PROJ. NAME NORTHFIELD-BERLIN
 PROJ. NO. STP SIGN 9487
 SHEET 33 OF 39 SHEETS



CONSTRUCT NEW DI.
 PROVIDE BICYCLE SAFE GRATE
 REMOVE EXISTING DI
 PROPOSED RAISED CURBED ISLANDS



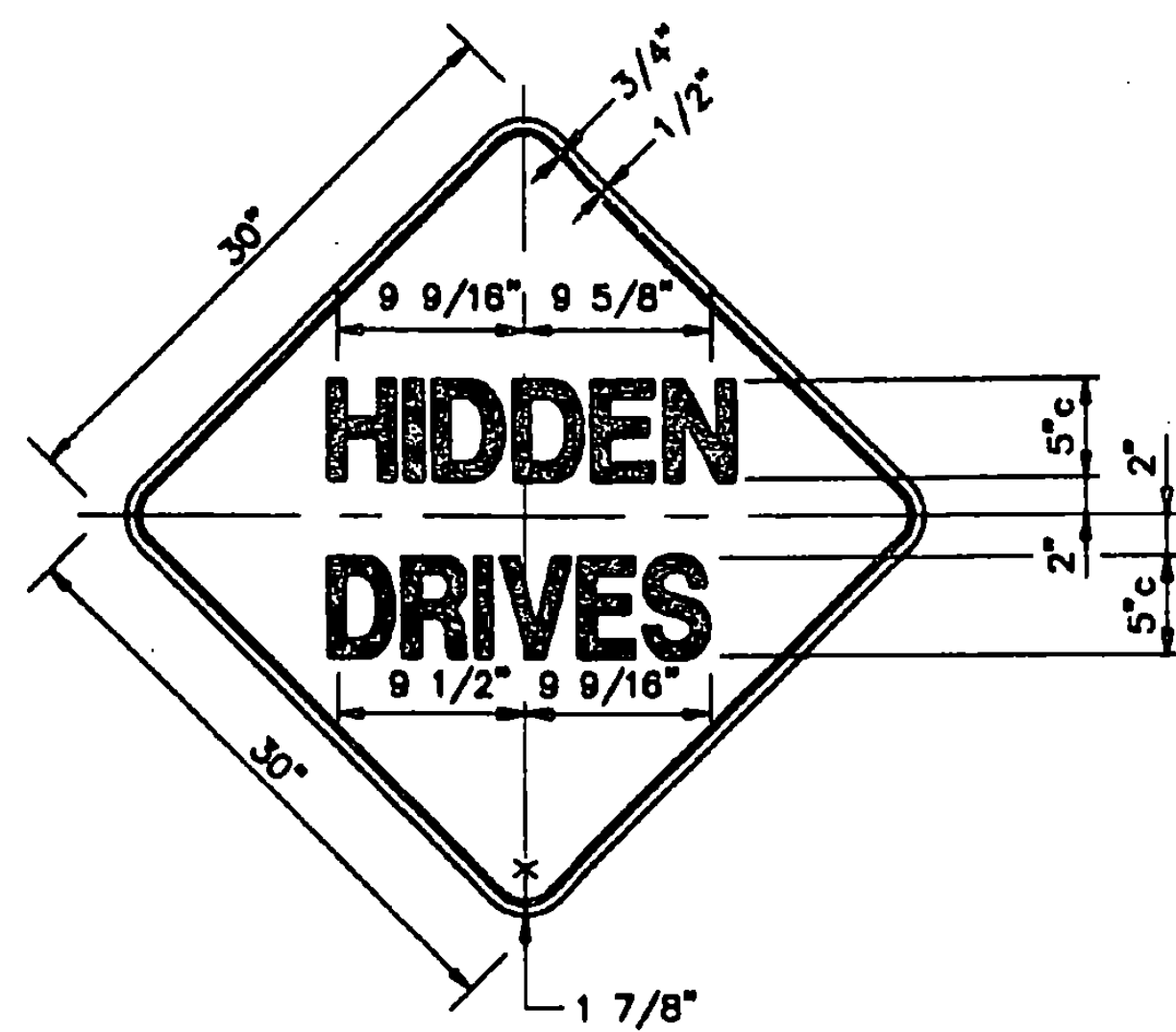
INTERSECTION PLAN
 SCALE: 1"=20'



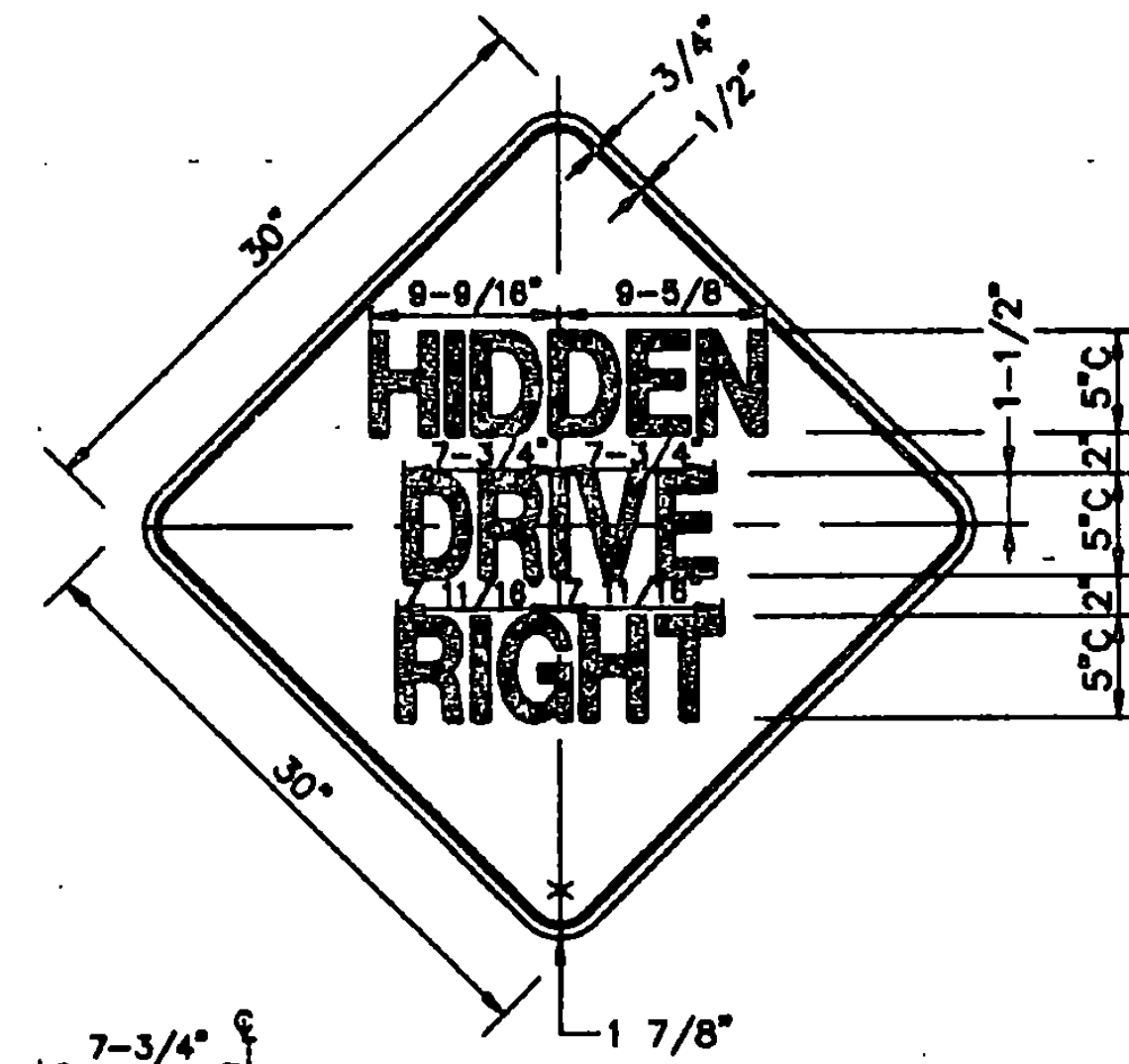
NOTE: ALL EXCAVATION WILL BE
 AS DIRECTED BY THE RESIDENT
 ENGINEER.

SECTION A - A
CURBED ISLAND DETAIL
 N.T.S.

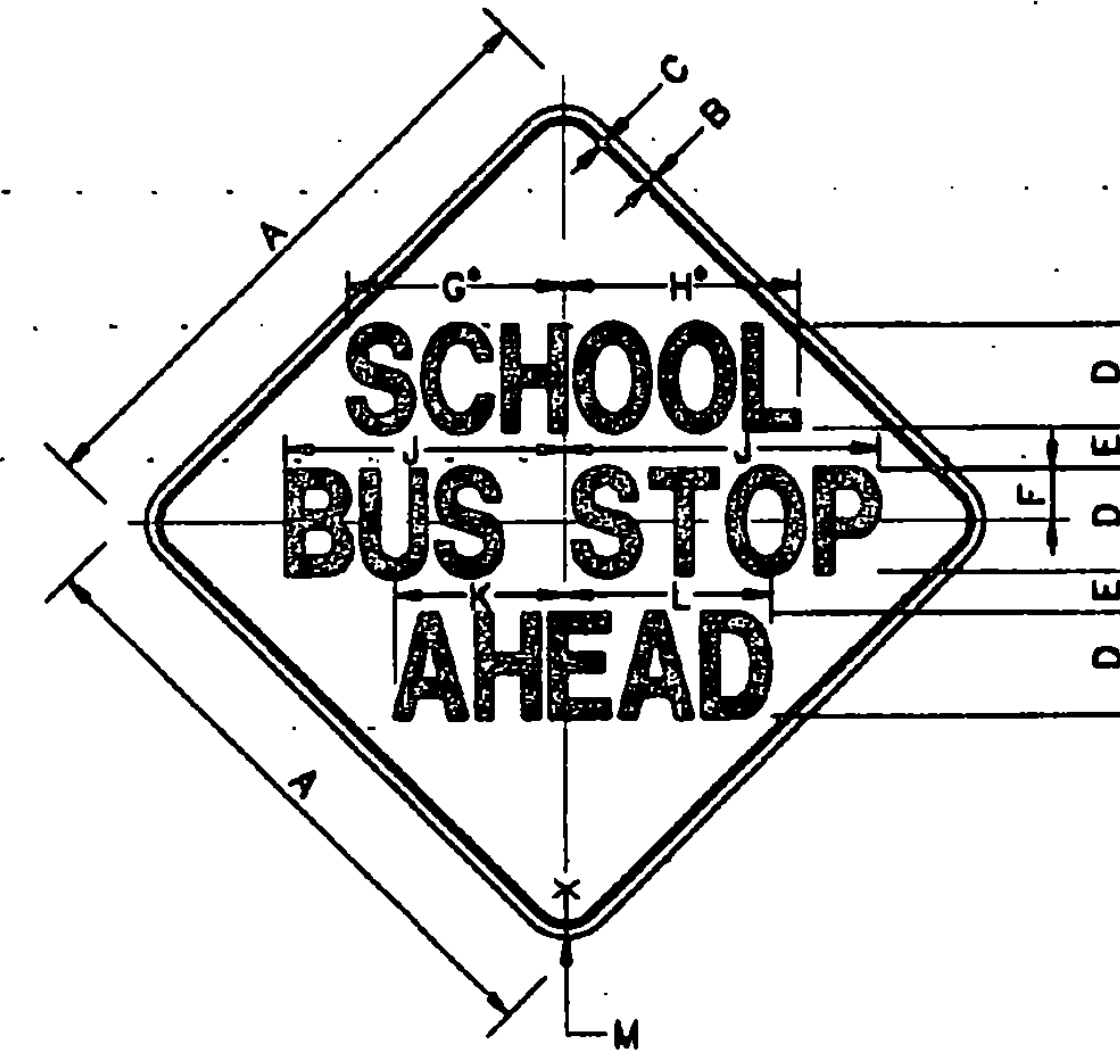
INTERSECTION DETAILS	SURVEYED BY _____	DATE _____
	DRAWN BY JHK	DATE 3/96
	SQUAD LEADER _____	DATE _____
	DESIGN FILE NO. /pave/94k012/pk012.dgn	
	FILE pk012.dwg	
	PROJ. NAME NORTHFIELD-BERLIN	
PROJ. NO. STP SIGN 9467		
SHEET 34 OF 39 SHEETS		



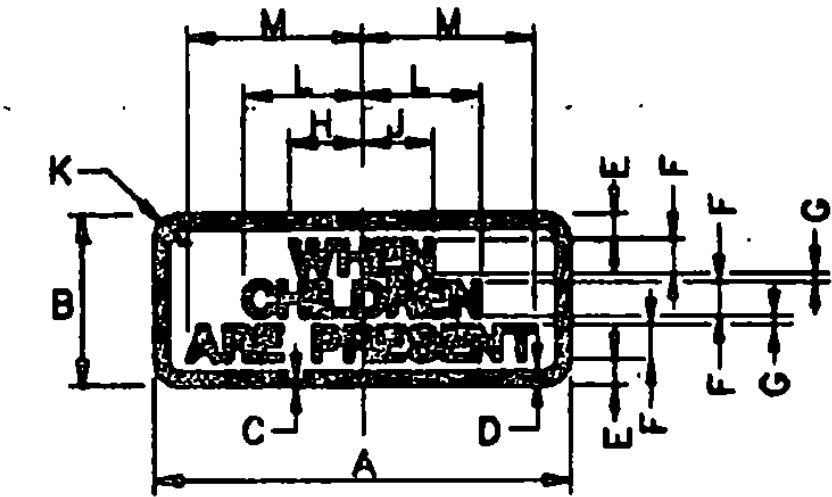
COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



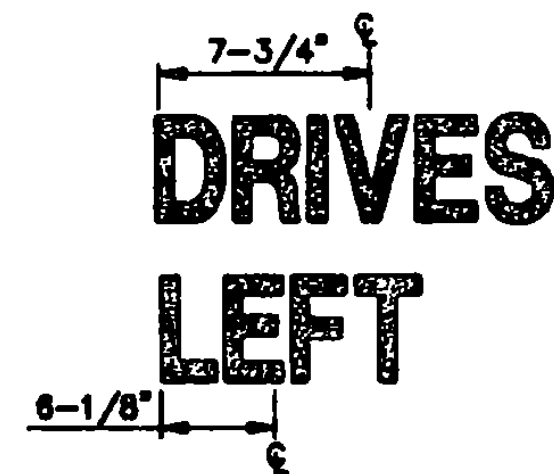
COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
STD.	24	10	3/8	5/8	1 1/2	2D	1/2	3 1/2

DIMENSIONS (INCHES)			
J	K	L	M
3 5/16	1-1/2	8 1/4	9 5/16

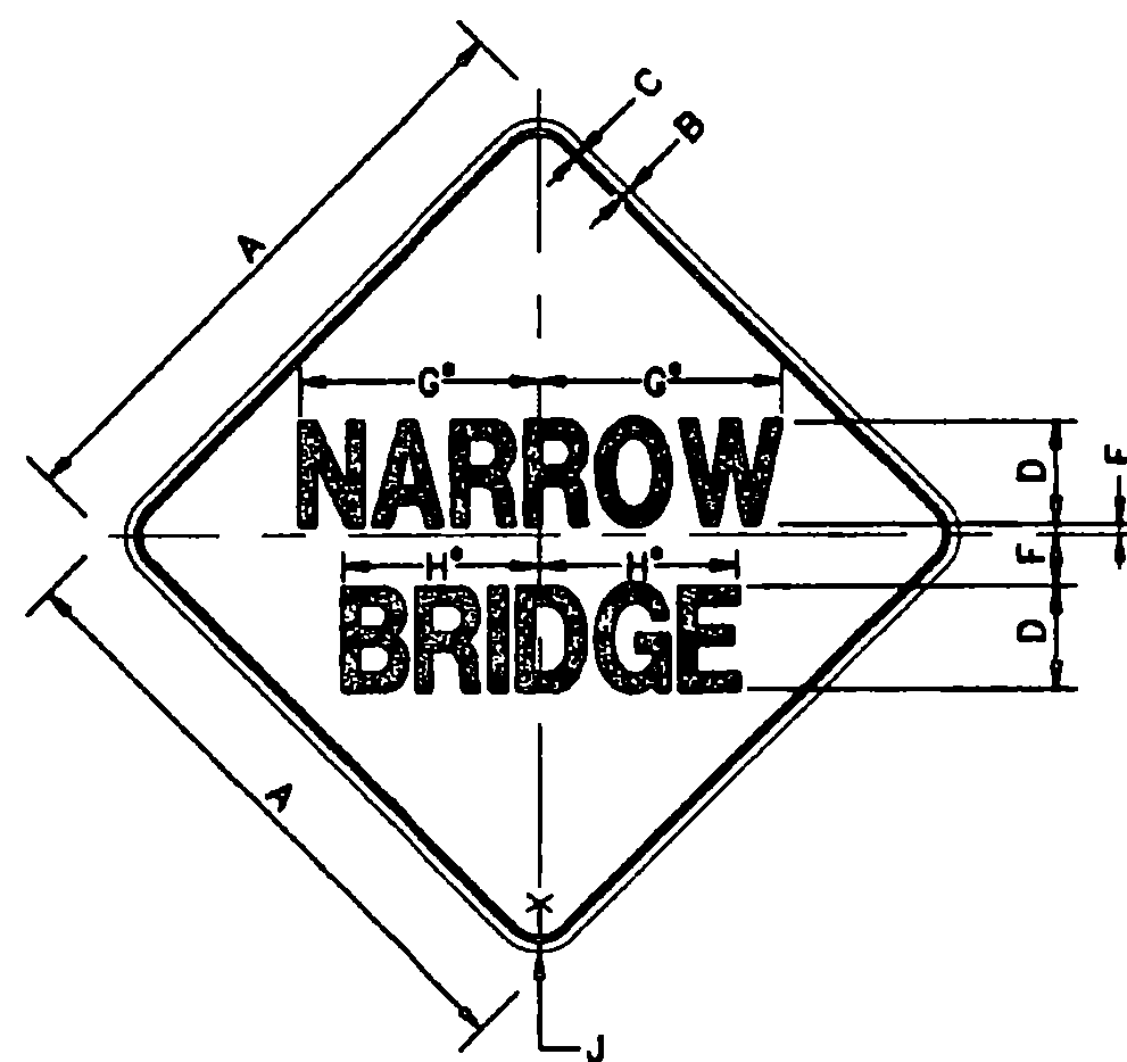
COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



DRIVES LEFT

* REDUCE SPACING 13 1/2%

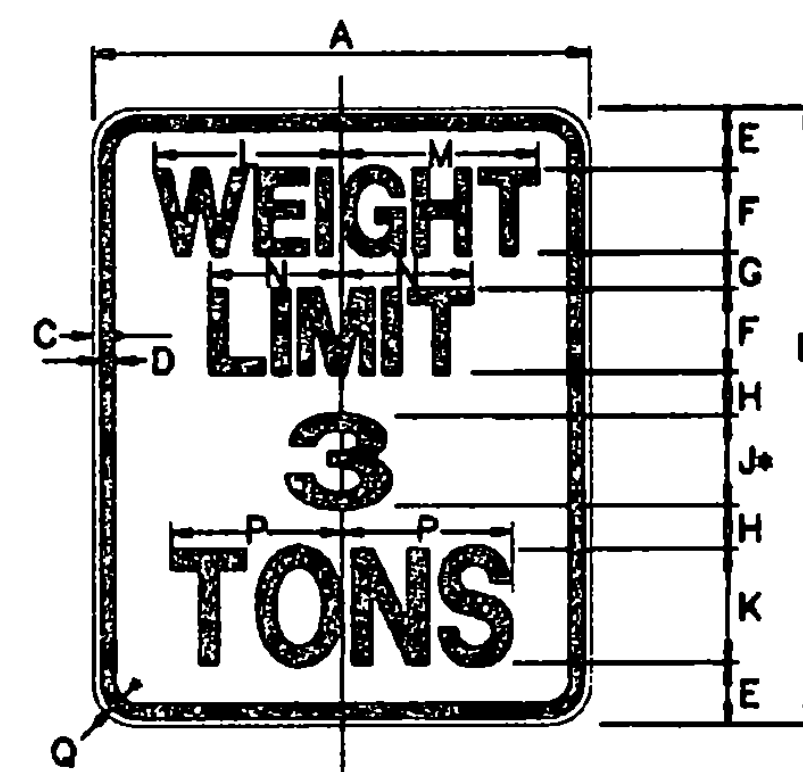
SIGN	DIMENSION (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	M
MIN. & STD.	30	1/2	3/4	5C	2	2 1/2	10	10 1/2	14	8 1/4	9	1 7/8



* REDUCE SPACING 20%

SIGN	DIMENSION (INCHES)									
	A	B	C	D	E	F	G	H	J	
STD.	30	1/2	3/4	5D	1/2	2 1/2	13 1/16	10 7/8	1 7/8	

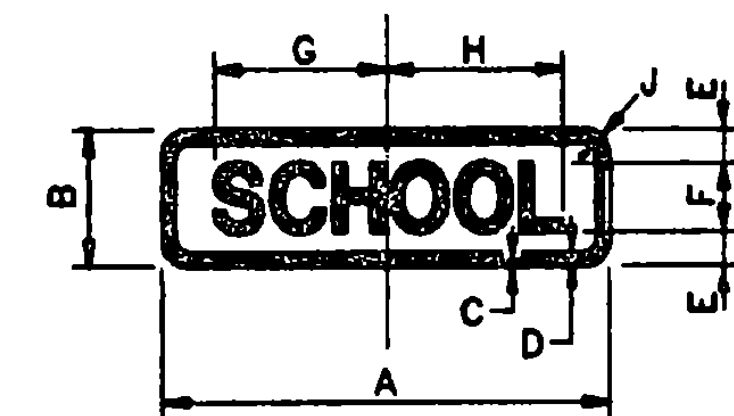
COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



* OPTICALLY SPACE NUMERALS ABOUT VERTICAL CENTERLINE.

SIGN	DIMENSION (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q		
MIN. & STD.	24	30	3/8	5/8	3	4D	1-3/4	2-1/8	5E	5D	9	9-1/2	8-5/16	8-1/4	1-1/2		

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-144



SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	
STD.	24	8	3/8	5/8	2	4D	10	10-1/4	1-1/2	

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151

DATUM
VERTICAL _____
HORIZONTAL N/A

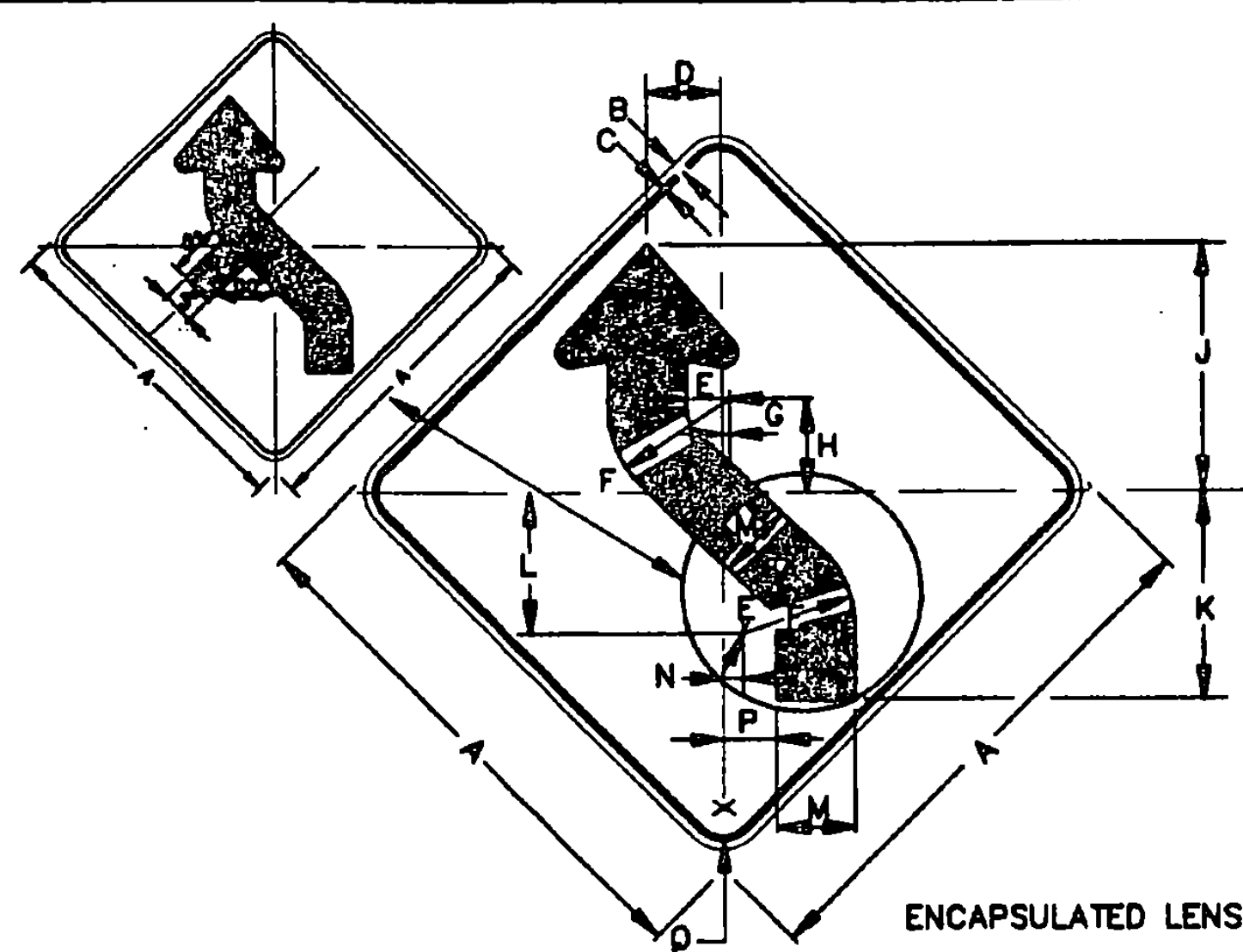
NOTE:

TEXT LAYOUT DIMENSIONS ARE BASED ON THE "LETTER & NUMERAL WIDTHS AND SPACE" TABLES FOUND IN THE "STANDARD HIGHWAY SIGNS" BOOKLET. 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 VAOT'S TRAFFIC AND SAFETY DIVISION BEFORE FABRICATION.

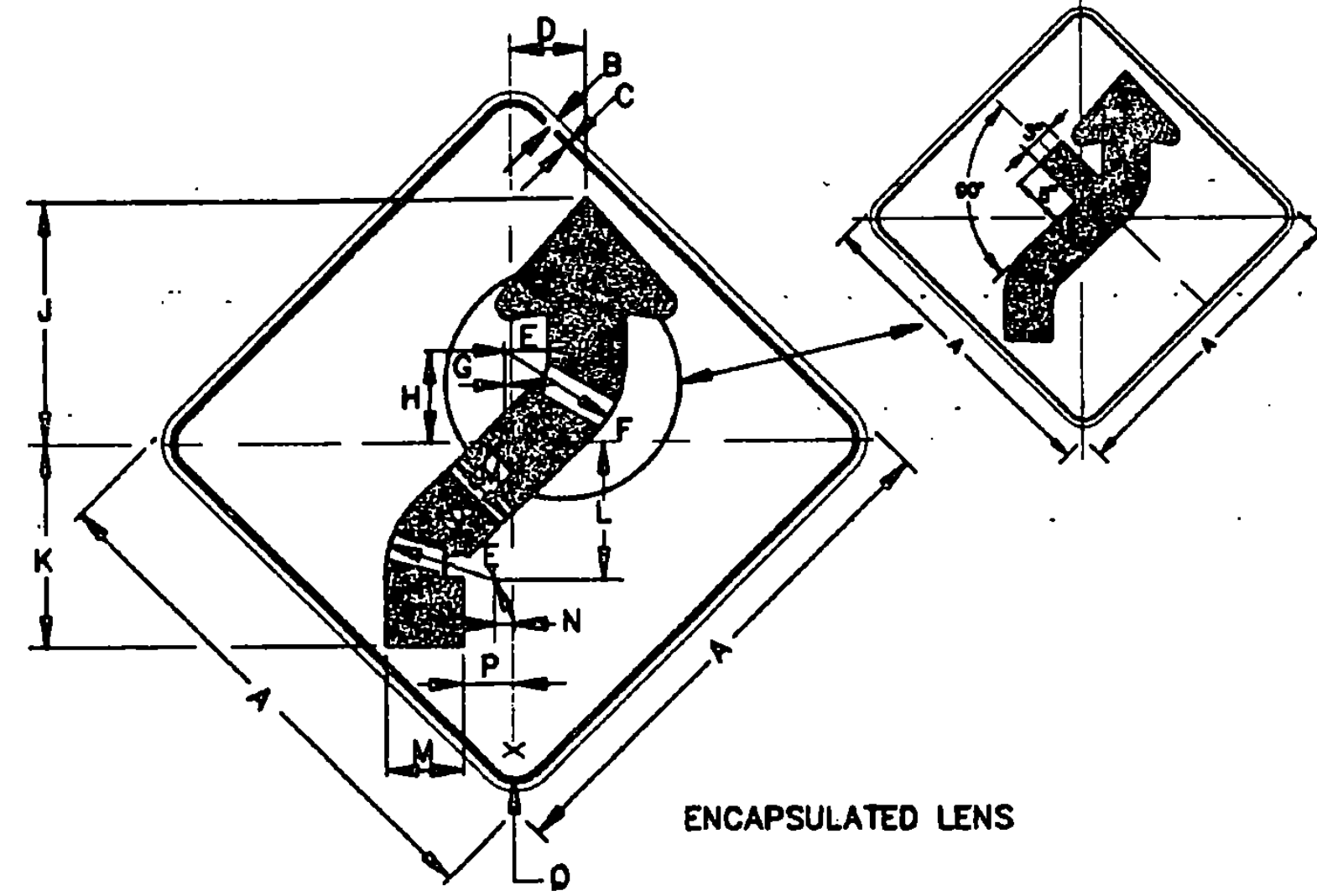
NOT TO SCALE

SIGN DETAILS
I

SURVEYED BY N/A DATE N/A
DRAWN BY TLB DATE 12/93
SQUAD LEADER SJB
DESIGN FILE NO. _____
SPARM FILE _____ DATE PLOTTED _____
PROJ. NAME NORTHFIELD-BERLIN
PROJ. NO. STP SIGN 9467
SHEET 35 OF 39 SHEETS



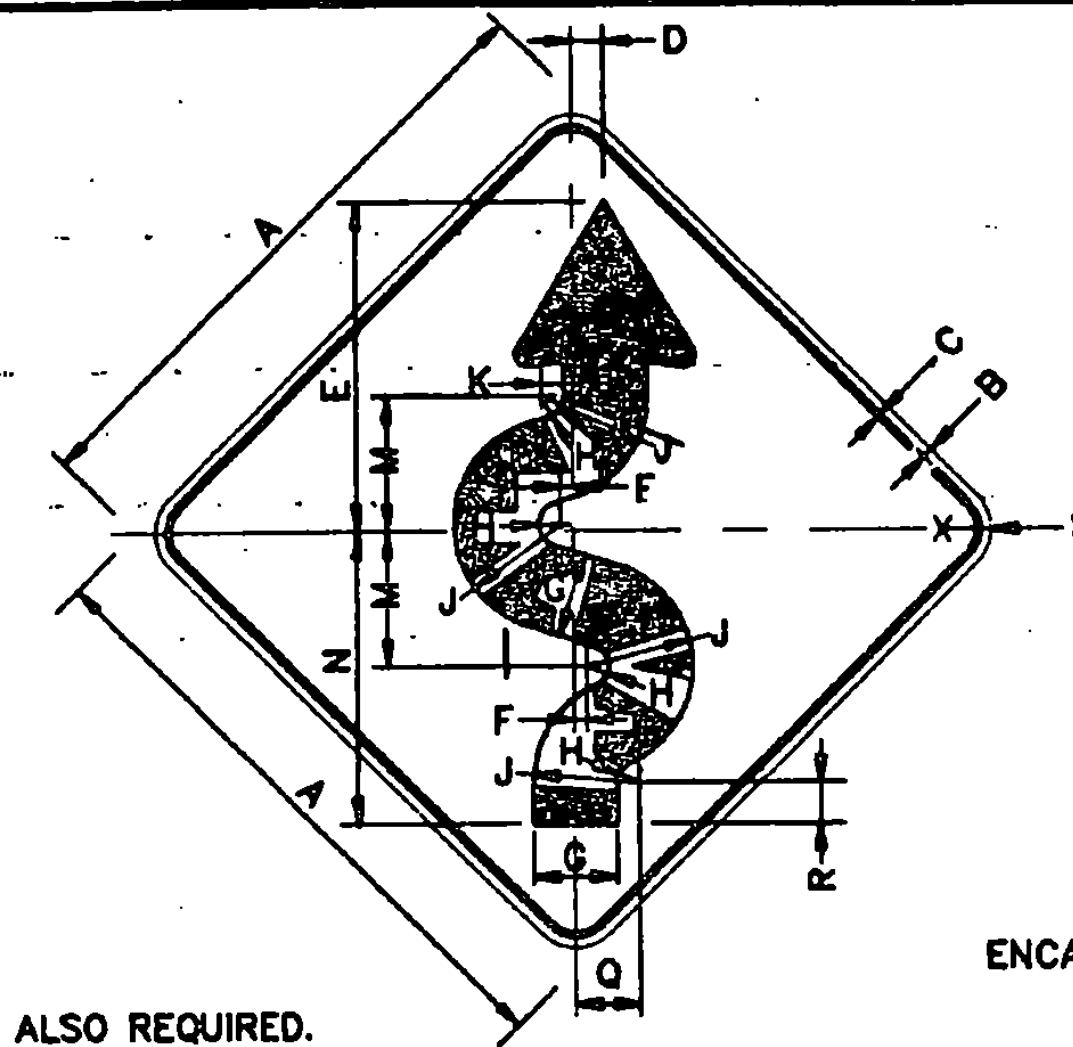
ENCAPSULATED LENS



ENCAPSULATED LENS

SIGN	DIMENSION (INCHES)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
STD.	30	1/2	3/4	3-15/16	1-7/8	6-1/4	3/8	4-3/8	14-1/16	10-5/16	6-9/16	4-3/8	1-13/32	3-9/32	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151

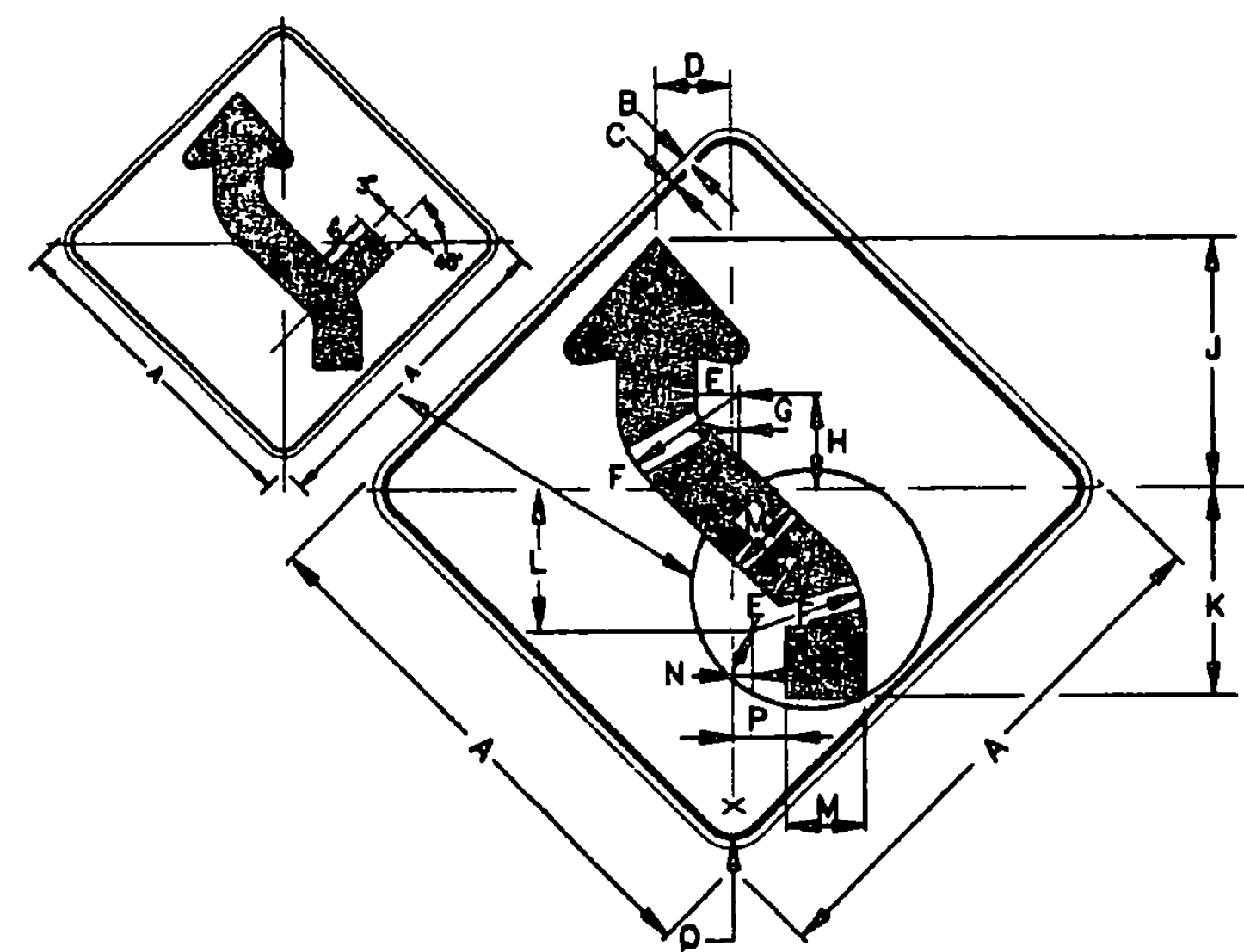


ENCAPSULATED LENS

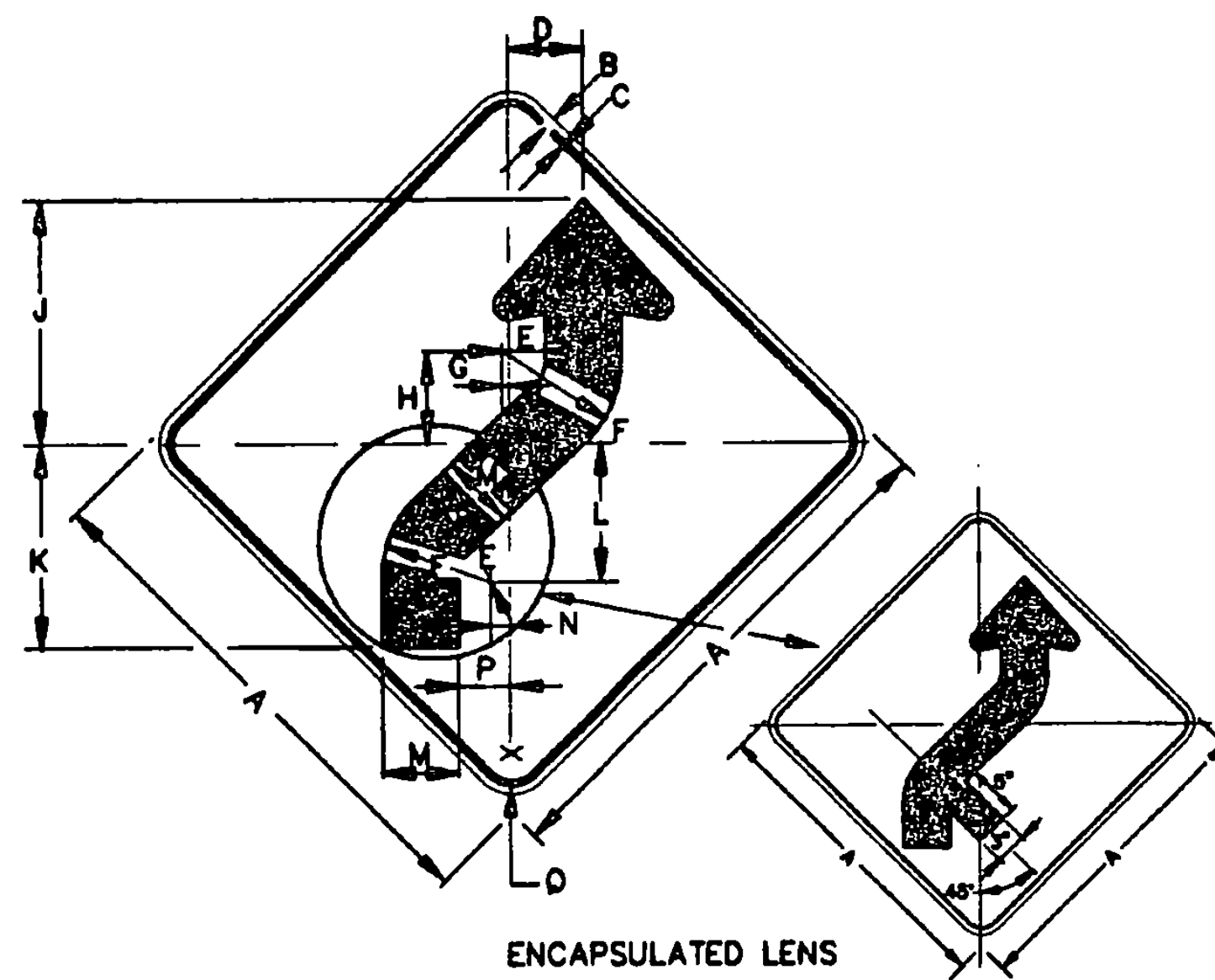
NOTE: MIRROR IMAGE ALSO REQUIRED.

SIGN	DIMENSION (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
STD.	30	1/2	3/4	9/16	15/16	5/8	4 1/16	1 3/32	5 5/32	1 9/16	6 31/64	6 9/16	14 7/32	5/16	3 1/8	2	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



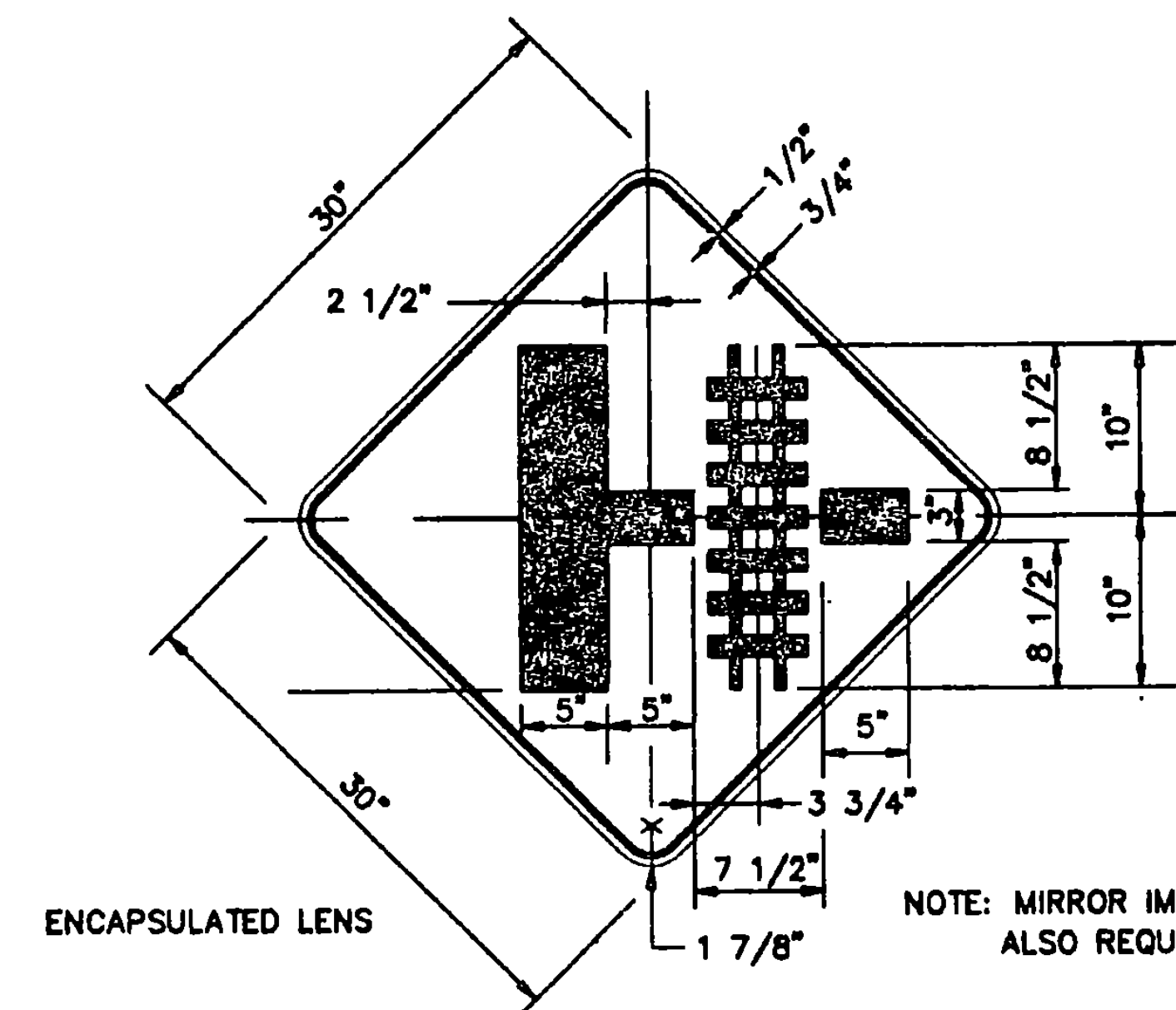
ENCAPSULATED LENS



ENCAPSULATED LENS

SIGN	DIMENSION (INCHES)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
STD.	30	1/2	3/4	3-15/16	1-7/8	6-1/4	3/8	4-3/8	14-1/16	10-5/16	6-9/16	4-3/8	1-13/32	3-9/32	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



ENCAPSULATED LENS

NOTE: MIRROR IMAGE ALSO REQUIRED.

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151

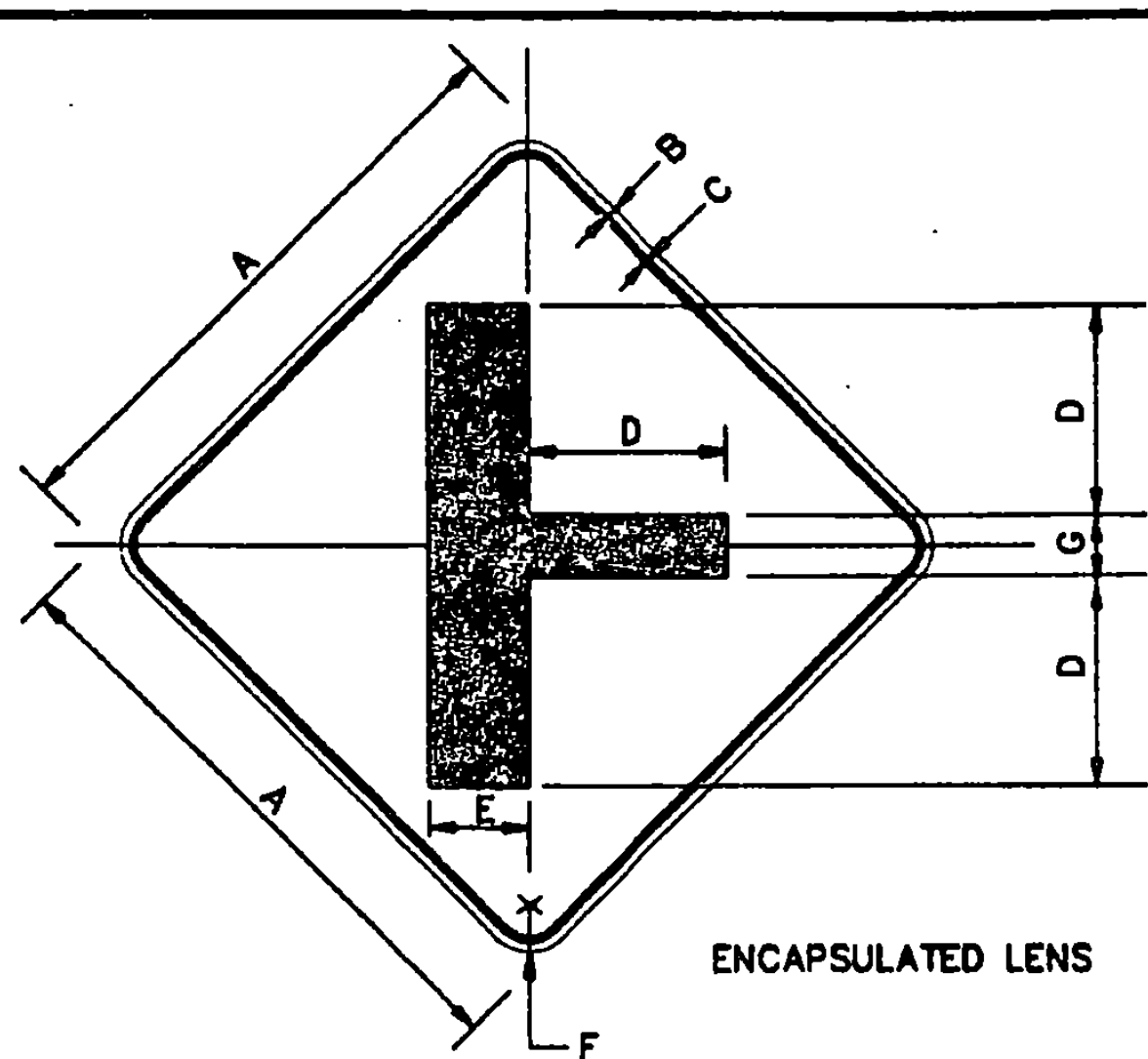
SURVEYED BY	N/A	DATE	N/A
DRAWN BY	TLB	DATE	11/83
SQUAD LEADER	SJB		
DESIGN FILE NO.		DATE	
IPARM FILE		PLOTTED	
PROJ. NAME	NORTHFIELD-BERLIN		
PROJ. NO.	STP SIGN 9487		
SHEET	36	OF	39 SHEETS

**SIGN
DETAILS
II**

NOT TO SCALE

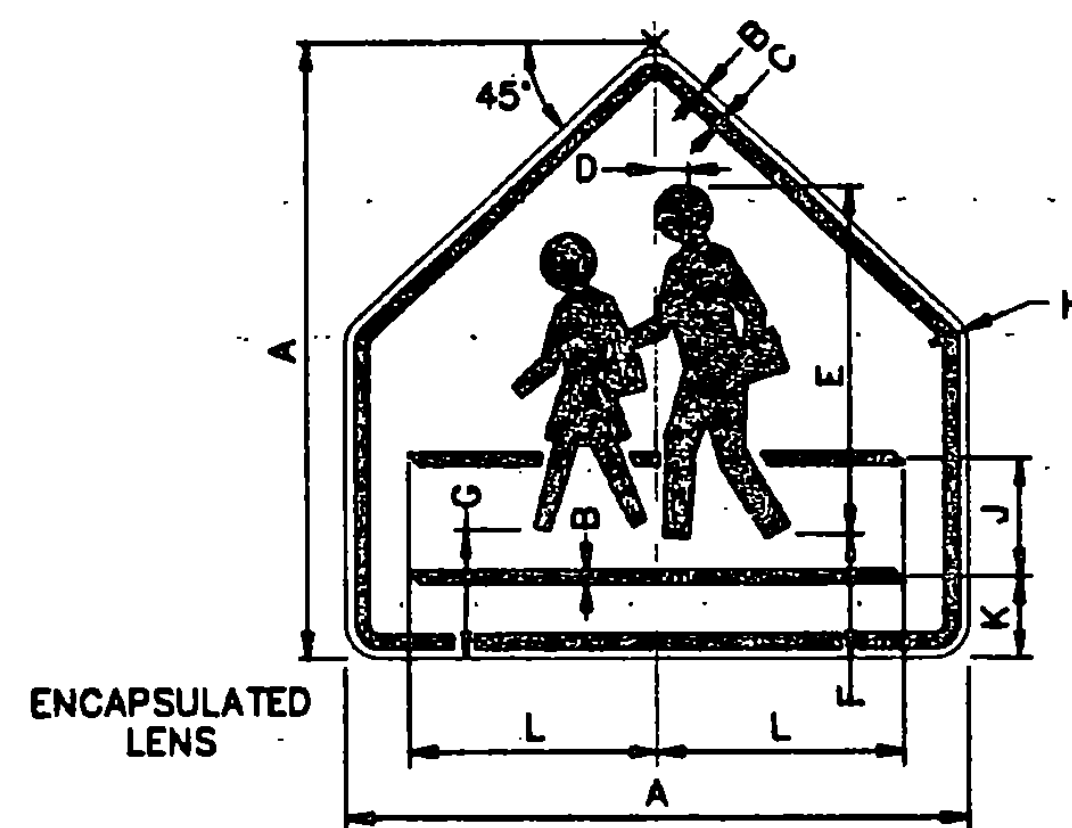
FILE NAME: 6 1725-SIGNPOSTS : BY : DATE: 11/83-01-13

DATUM
VERTICAL _____
HORIZONTAL N/A



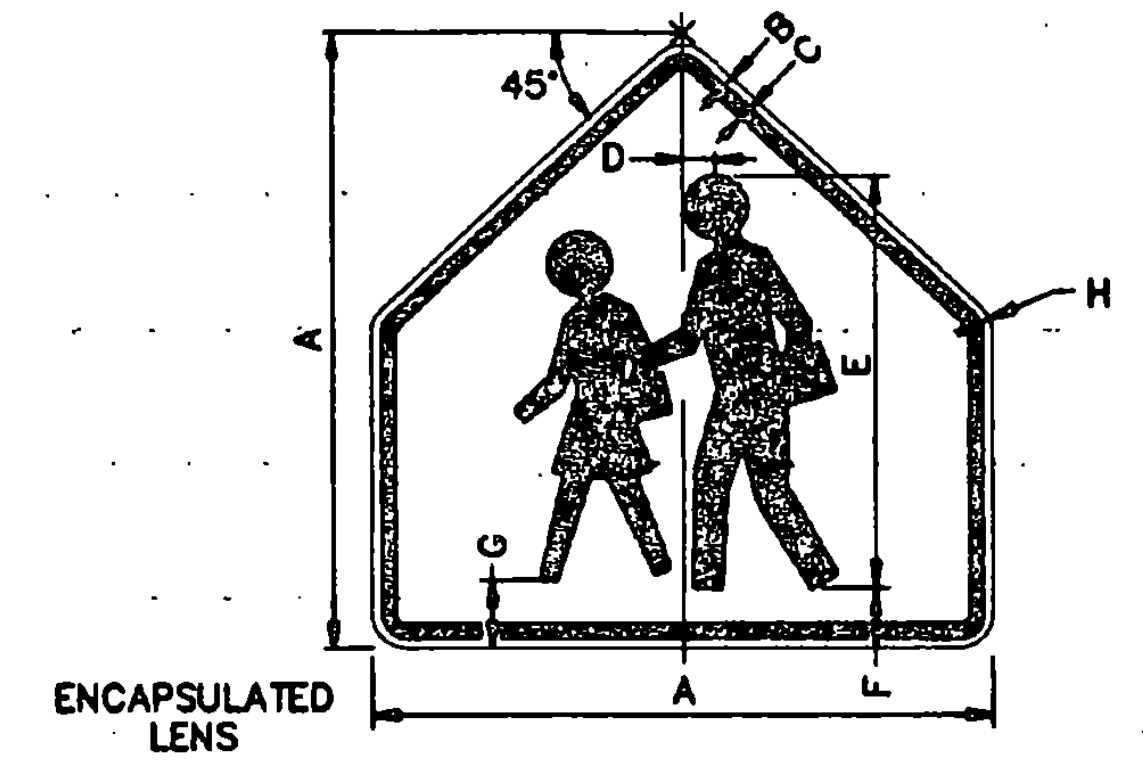
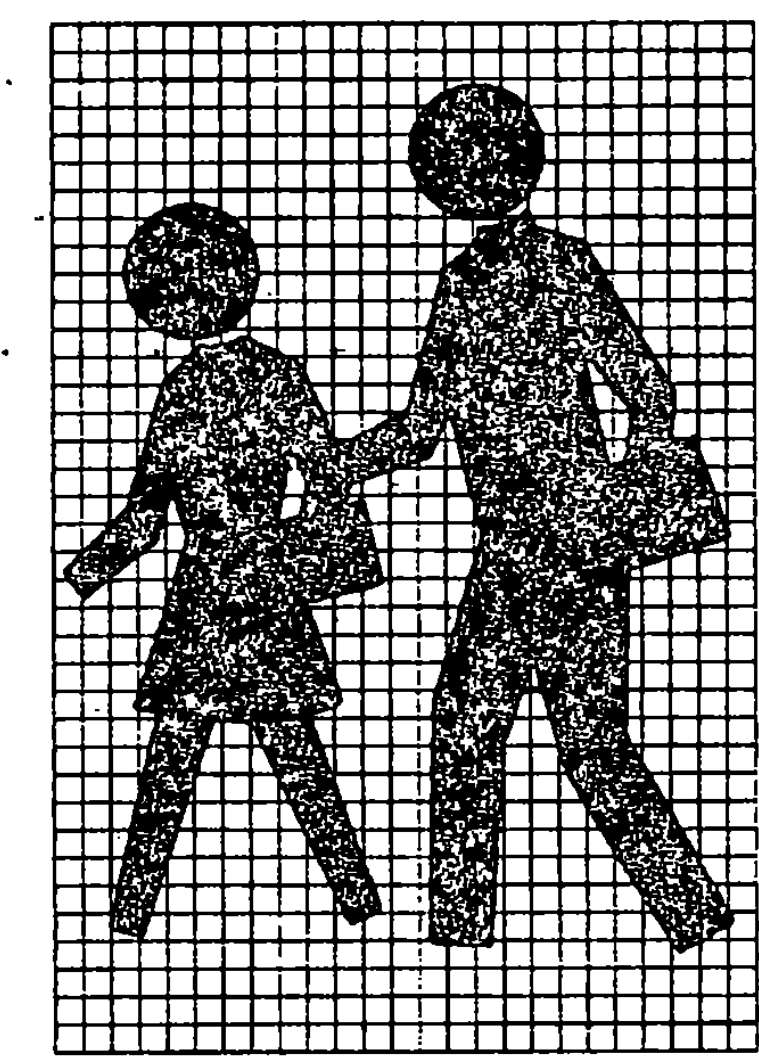
SIGN	DIMENSION (INCHES)						
	A	B	C	D	E	F	G
STD.	30	1/2	3/4	10	5	1 7/8	3

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



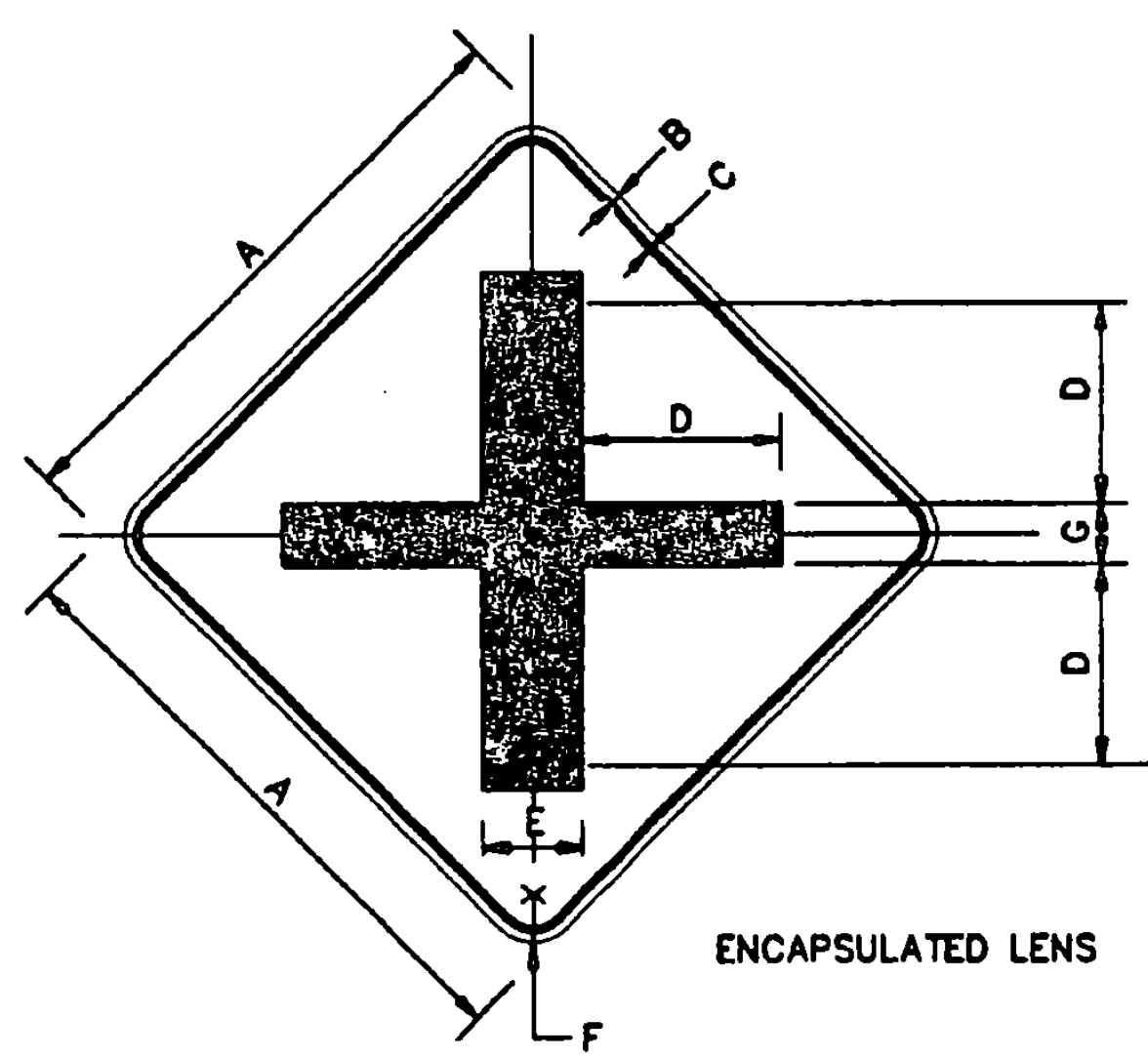
SIGN	DIMENSION (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	
STD. MUTCD 7B-9	36	5/8	7/8	1 1/2	19	3/4	7 1/4	13/16	2 1/4	7/8	3/4	3/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



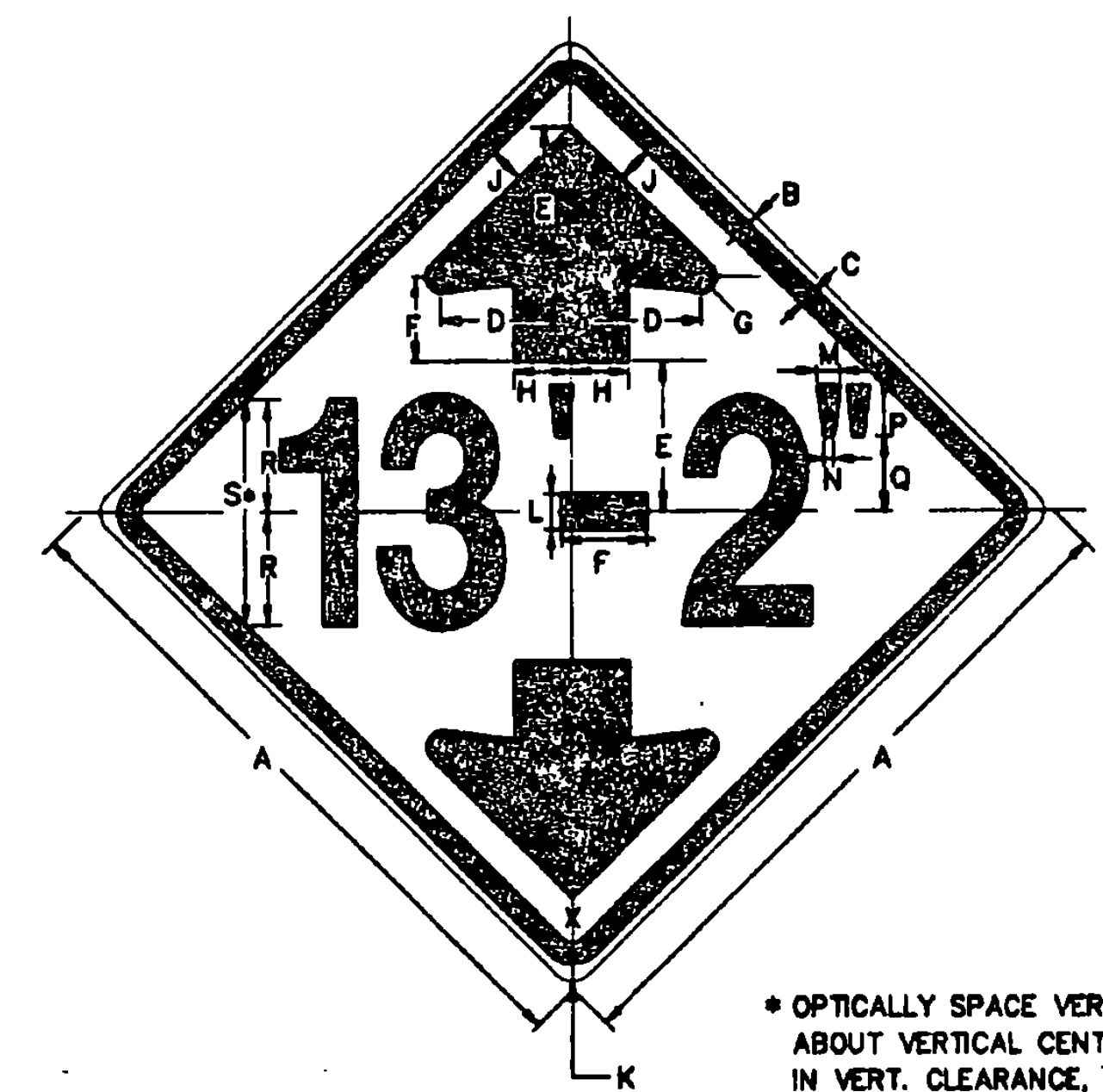
SIGN	DIMENSION (INCHES)							
	A	B	C	D	E	F	G	H
STD. MUTCD 7B-9	36	5/8	7/8	2 1/2	24	3 1/2	4 1/2	1 1/4

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



SIGN	DIMENSION (INCHES)						
	A	B	C	D	E	F	G
STD.	30	1/2	3/4	10	5	1 7/8	3"

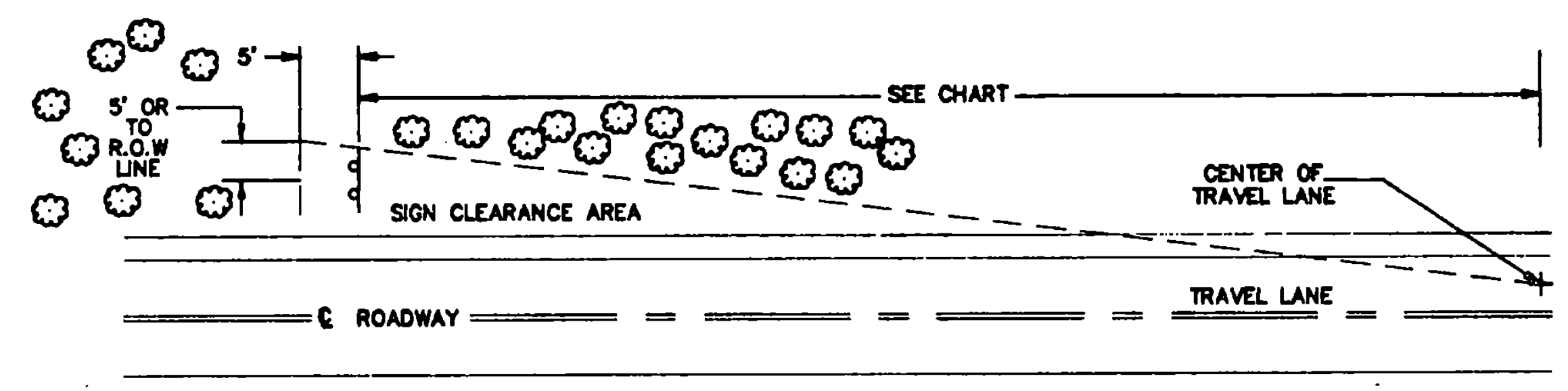
COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



SIGN	DIMENSION (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
MIN.	30	1/2	3/4	5-3/4	8-5/8	3-3/4	3/4	2-1/2	1-11/16	1-7/8	1-9/16	1 7/16	2-1/4	3-5/16	5	10D	

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151

* OPTICALLY SPACE VERTICAL CLEARANCE NUMERALS ABOUT VERTICAL CENTERLINE (WHERE 10" IS USED IN VERT. CLEARANCE, USE SERIES C NUMERALS)



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. PAYMENT WILL BE FOR THINNING & TRIMMING (MOD.) ITEM 201.31. NO CHEMICALS (POISONS OR DEFOLIANTS) ALLOWED.

MINIMUM SIGN SIGHT DISTANCE CHART

APPROACH SPEED (mph)	SIGHT DISTANCE (feet)
30 OR LESS	300
35	350
40	400
45	450
50	500

CLEARING LIMITS FOR SIGNS ON CONVENTIONAL ROADS

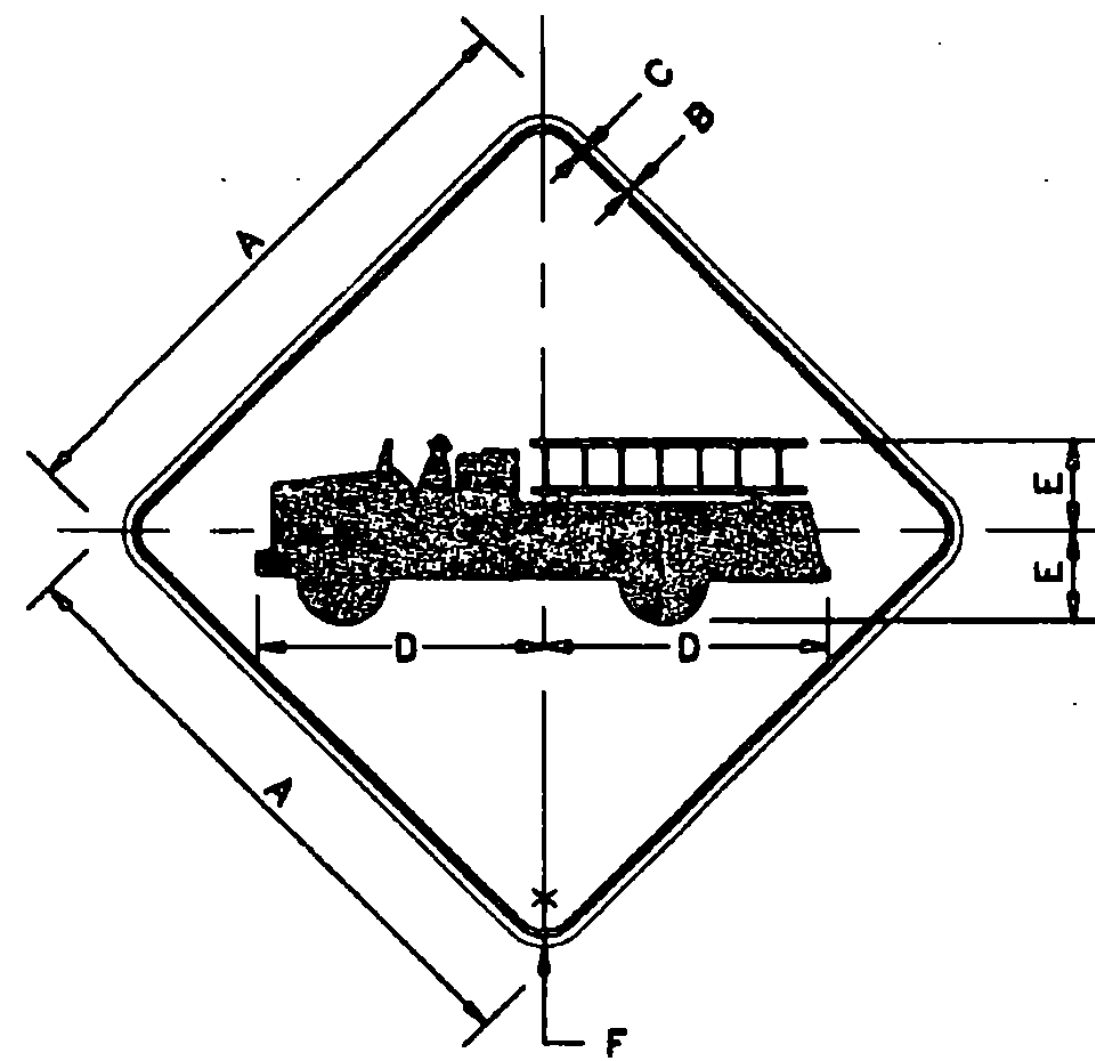
FILE NAME: 01V2B-240000131.DWG DATE: 12-04-07-12

NOTE:
TEXT LAYOUT DIMENSIONS ARE BASED ON THE "LETTER & NUMERAL WIDTHS AND SPACE" TABLES FOUND IN THE "STANDARD HIGHWAY SIGNS" BOOKLET. 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 VAOT'S TRAFFIC AND SAFETY DIVISION BEFORE FABRICATION.

DATUM
VERTICAL _____
HORIZONTAL N/A

SIGN DETAILS III	SURVEYED BY	N/A	DATE	N/A
	DRAWN BY	TLB	DATE	11/03
	SQUAD LEADER	S.B.		
	DESIGN FILE NO.		DATE PLOTTED	
	PROJ. NAME	NORTHFIELD-BERLIN		
	PROJ. NO.	STP SIGN 9467		
SHEET 37 OF 38 SHEETS				

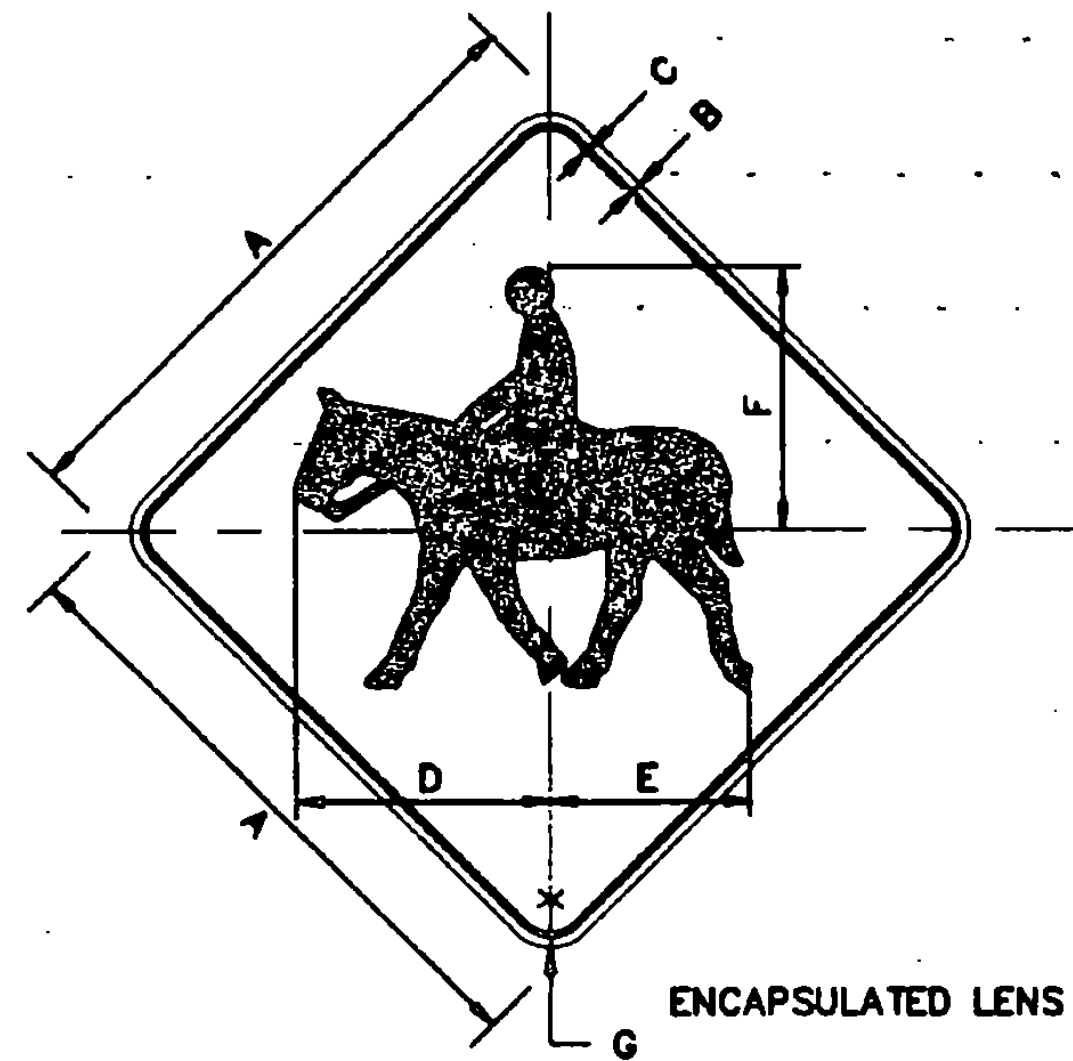
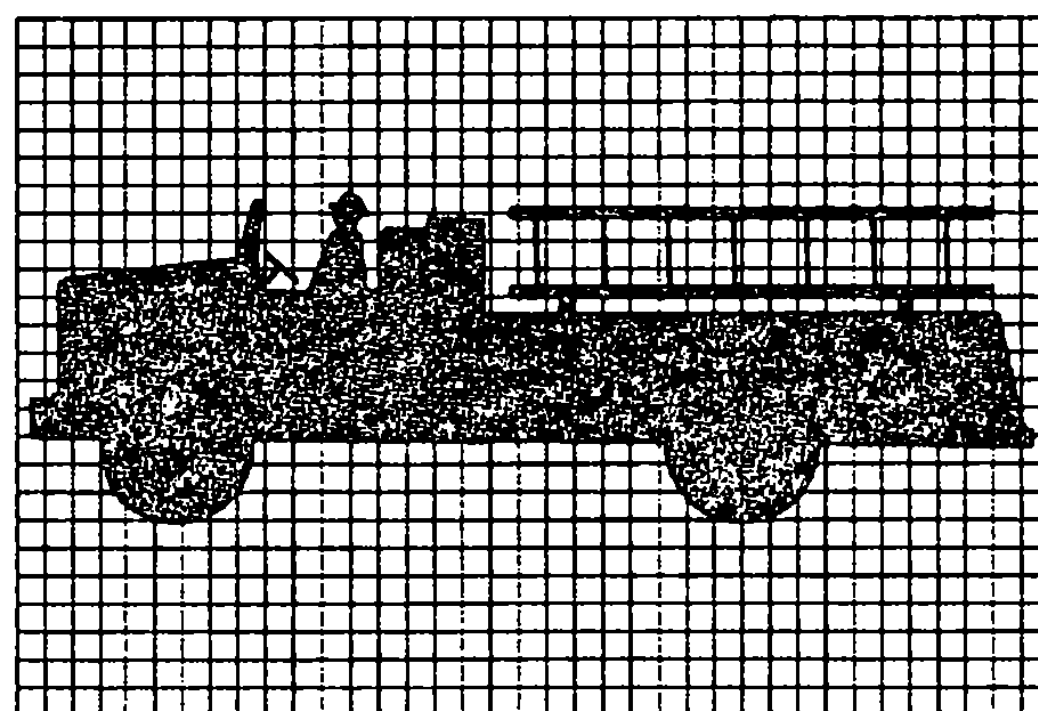
NOT TO SCALE



ENCAPSULATED LENS

SIGN	DIMENSION (INCHES)						
	A	B	C	D	E	F	
MIN.	30	1/2	3/4	13	3/4	3/8	1 7/8

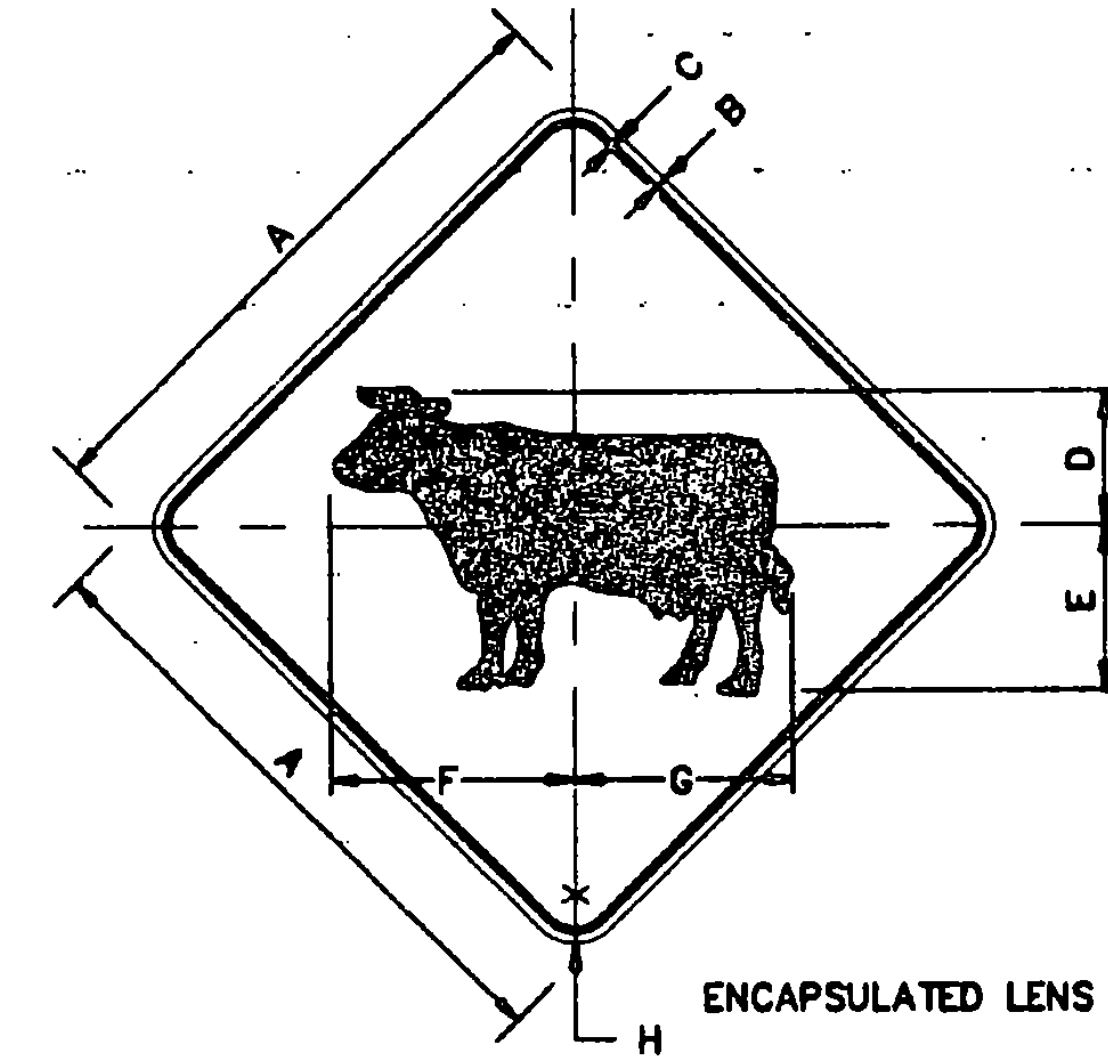
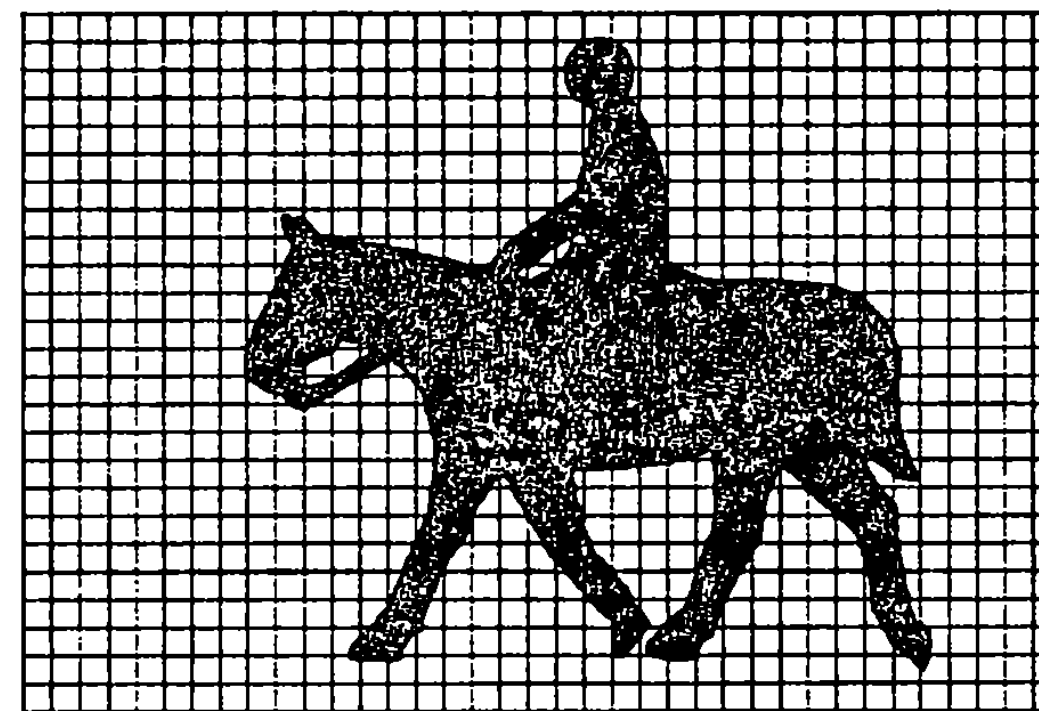
COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



ENCAPSULATED LENS

SIGN	DIMENSION (INCHES)						
	A	B	C	D	E	F	G
STD.	30	1/2	3/4	13	10	13	1 7/8

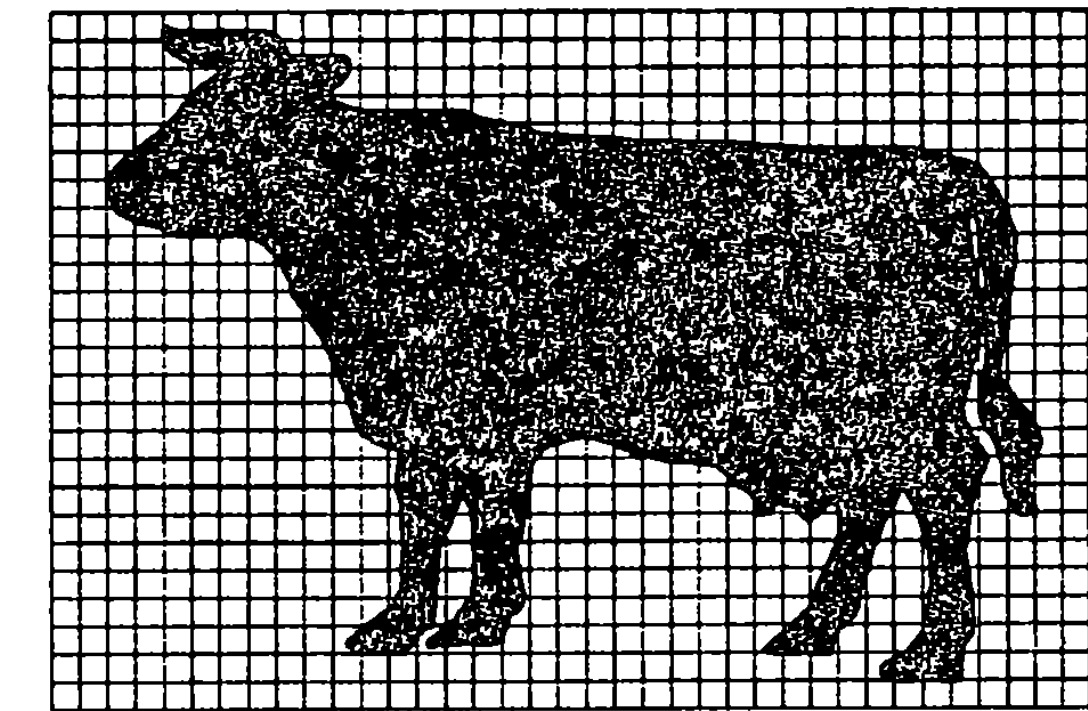
COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



ENCAPSULATED LENS

SIGN	DIMENSION (INCHES)							
	A	B	C	D	E	F	G	H
MIN.	30	1/2	3/4	6	6	11 3/4	10 1/2	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



FILE NAME: G:\V25-PLANS\STP\BY: JCF : DATE: 10-09-12

DATUM
 VERTICAL _____
 HORIZONTAL N/A

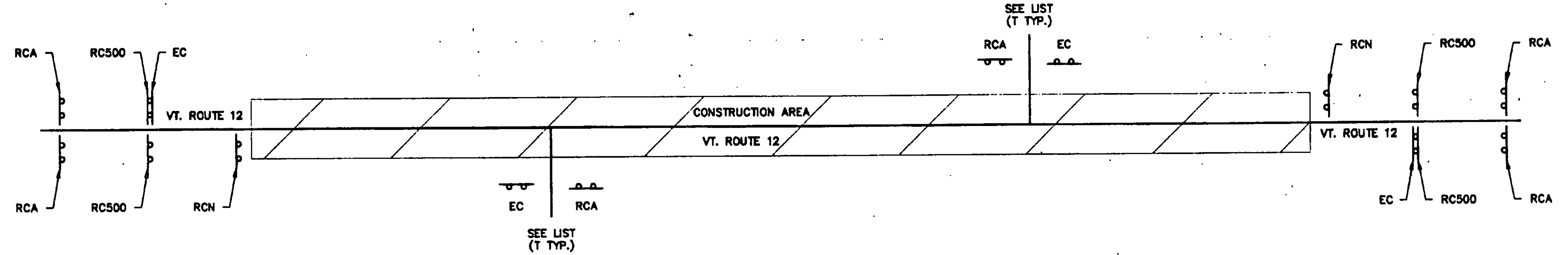
**SIGN
 DETAILS
 IV**

NOT TO SCALE

SURVEYED BY	N/A	DATE	N/A
DRAWN BY	TLB	DATE	12/83
SQUAD LEADER	SJB		
DESIGN FILE NO.	_____		
DRAWN FILE	_____		
DATE PLOTTED	_____		
PROJ. NAME	NORTHFIELD-BERLIN		
PROJ. NO.	STP SIGN 9467		
SHEET	38	OF	38 SHEETS

CONSTRUCTION APPROACH SIGNING

SEE STD. E-100 FOR SIGN PLACEMENT



LIST OF TOWN ROADS/HIGHWAYS FOR CONSTRUCTION SIGNS

TOWN HIGHWAY NUMBER	ROAD CONST. AHEAD	END CONST.	OTHER
NORTHFIELD			
T-14	1	1	
T-16	1	1	
T-17	1	1	
TH-3	1	1	
T-83	1	1	
T-85	1	1	
T-83	1	1	
T-84	1	1	
T-88	1	1	
BERLIN			
T-55	1	1	
T-61	1	1	
T-77	1	1	
T-71	1	1	
T-54	1	1	
SUBTOTAL	14	14	

LIST OF TOWN ROADS/HIGHWAYS FOR CONSTRUCTION SIGNS

TOWN HIGHWAY NUMBER	ROAD CONST. AHEAD	END CONST.	OTHER
T-48	1	1	
T-40	1	1	
T-54	1	1	
T-53	1	1	
T-35	1	1	
T-49	1	1	
T-38	1	1	
T-39	1	1	
T-74	1	1	
T-16	1	1	
T-47	1	1	
T-12	1	1	
TH-8	1	1	
SUBTOTAL	13	13	
TOTAL	27	27	

- RCA = ROAD CONSTRUCTION AHEAD
- RC500 = ROAD CONSTRUCTION 500'
- EC = END CONSTRUCTION
- RCN = ROAD CONSTRUCTION NEXT 7.25 MILES
- SRCA = SIDE ROAD CONSTRUCTION AHEAD
- SR500 = SIDE ROAD CONSTRUCTION 500'
- T = TOWN ROAD
- TH = TOWN HIGHWAY

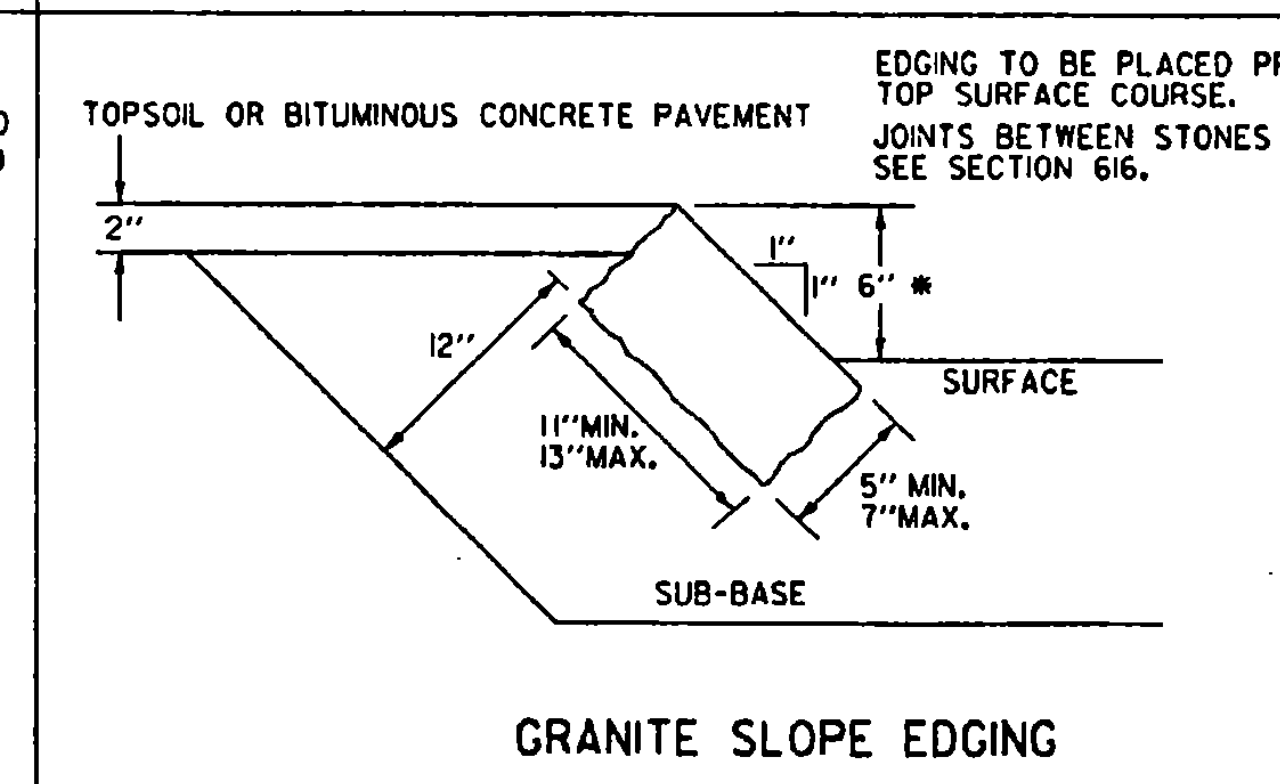
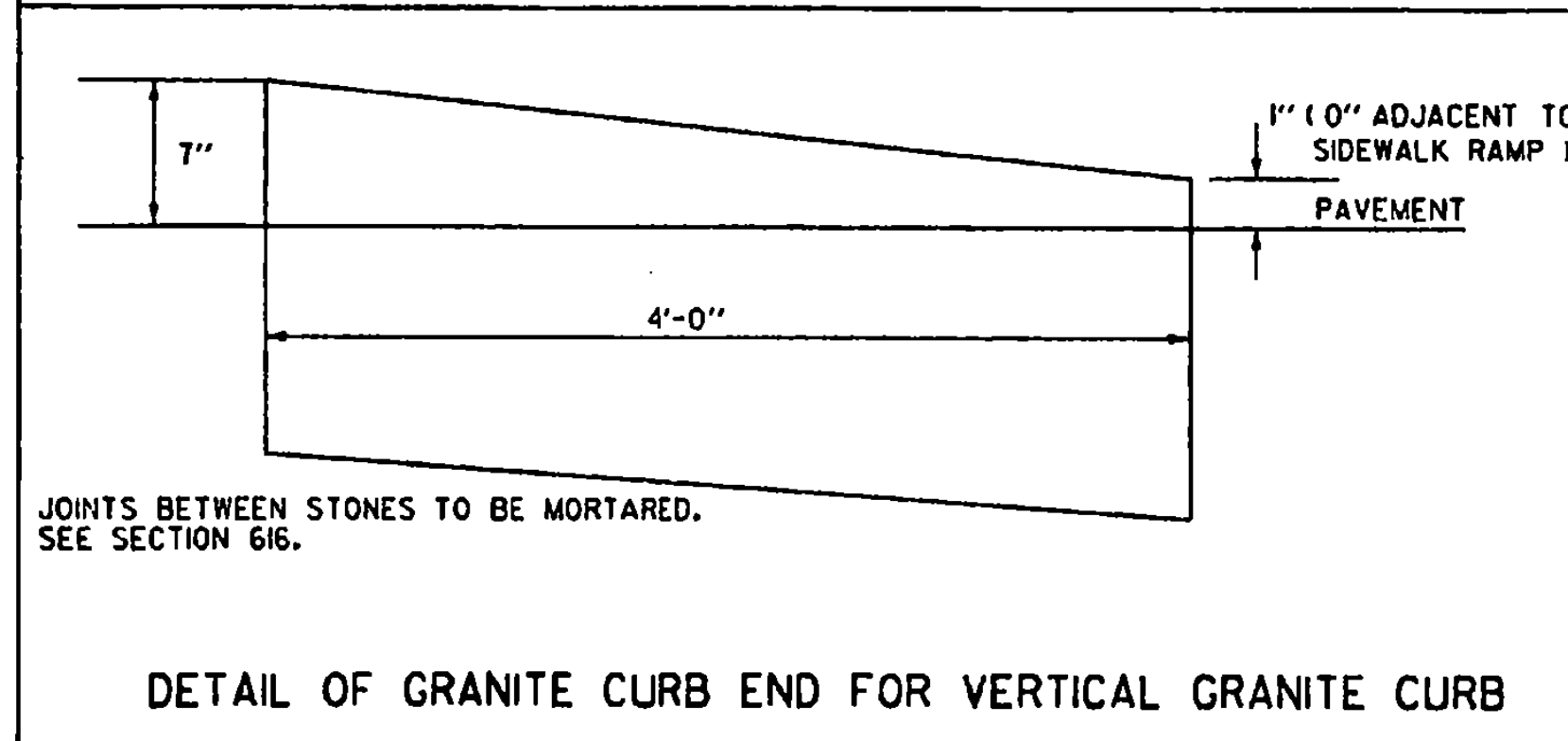
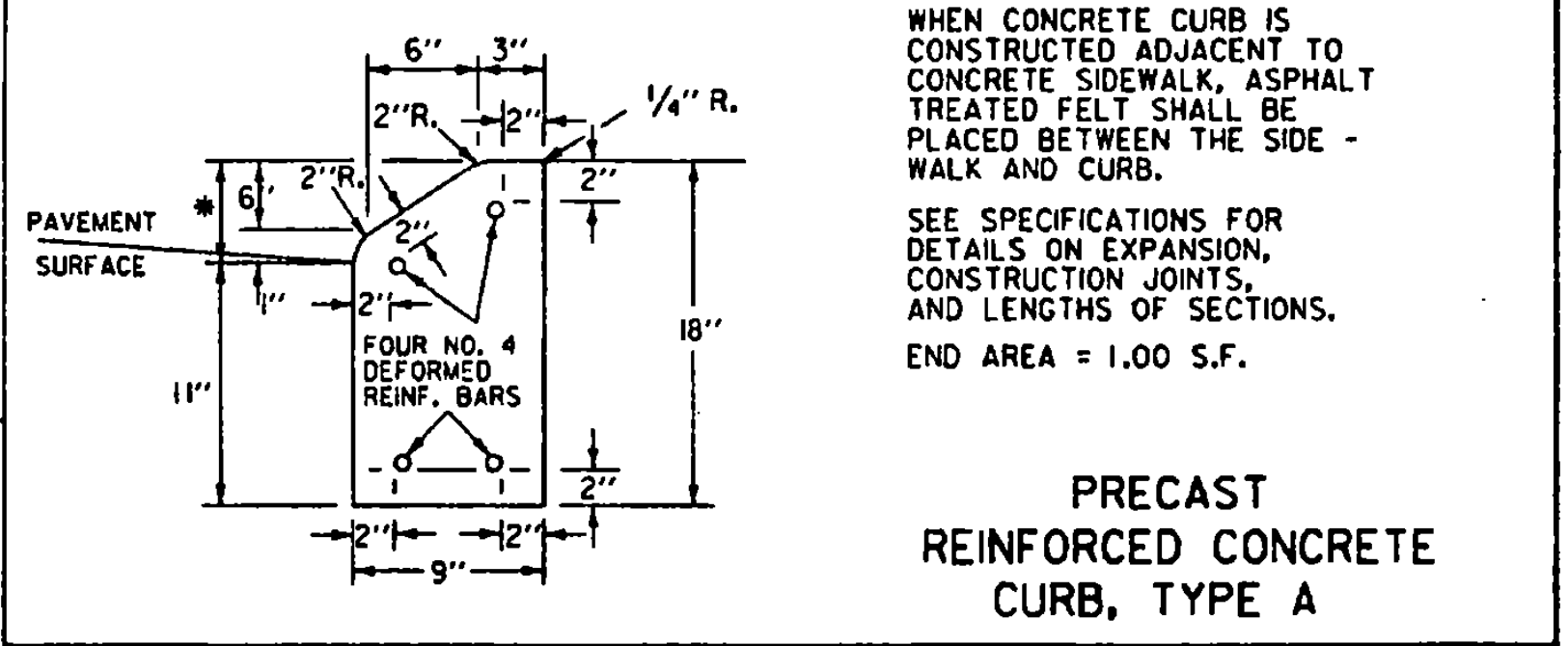
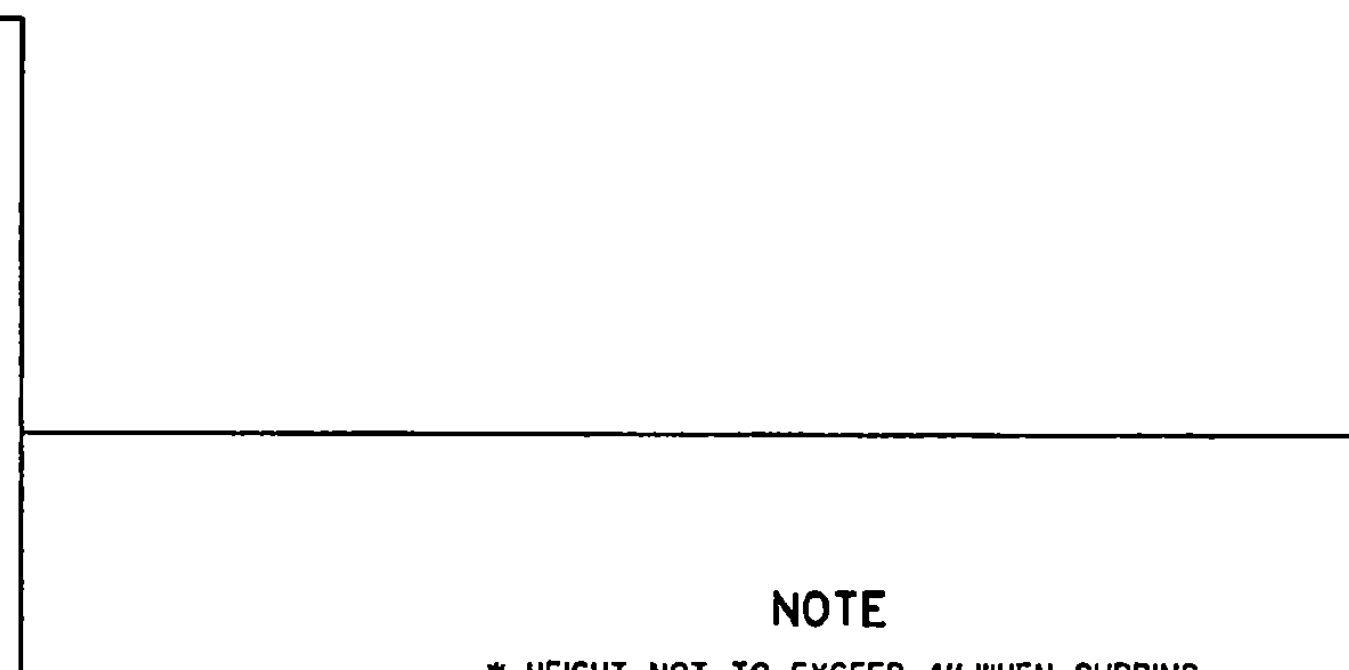
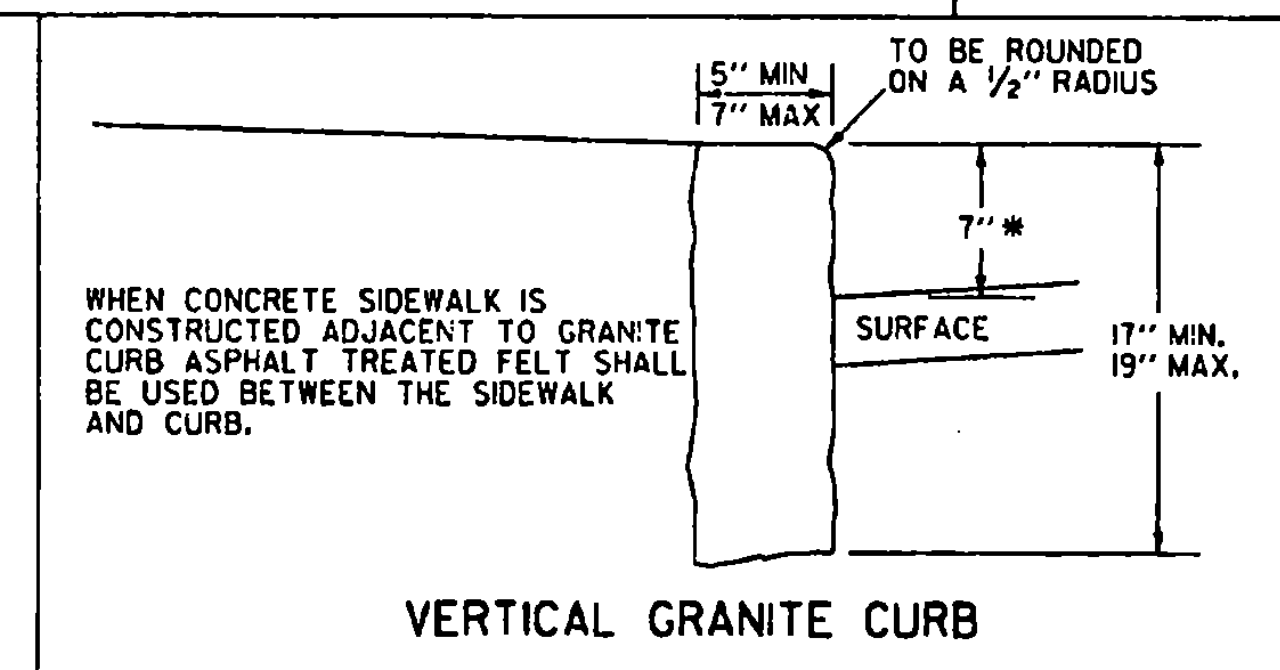
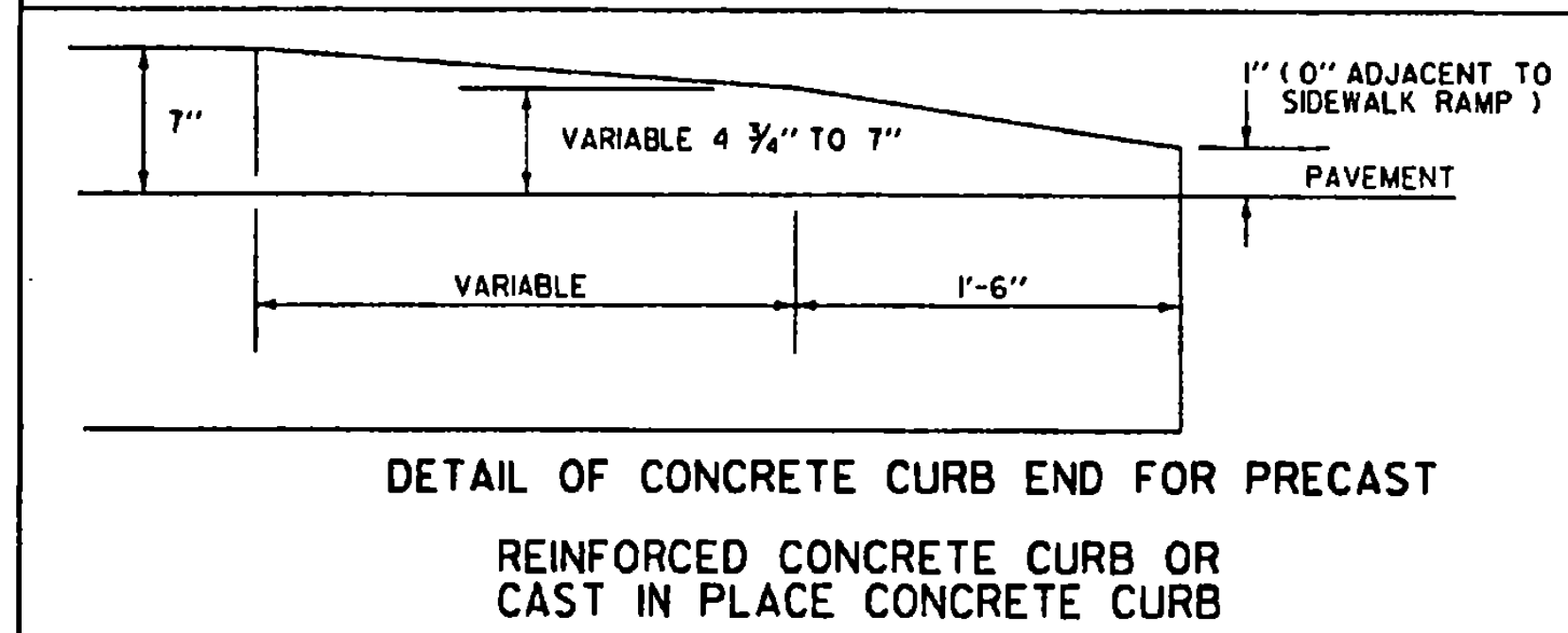
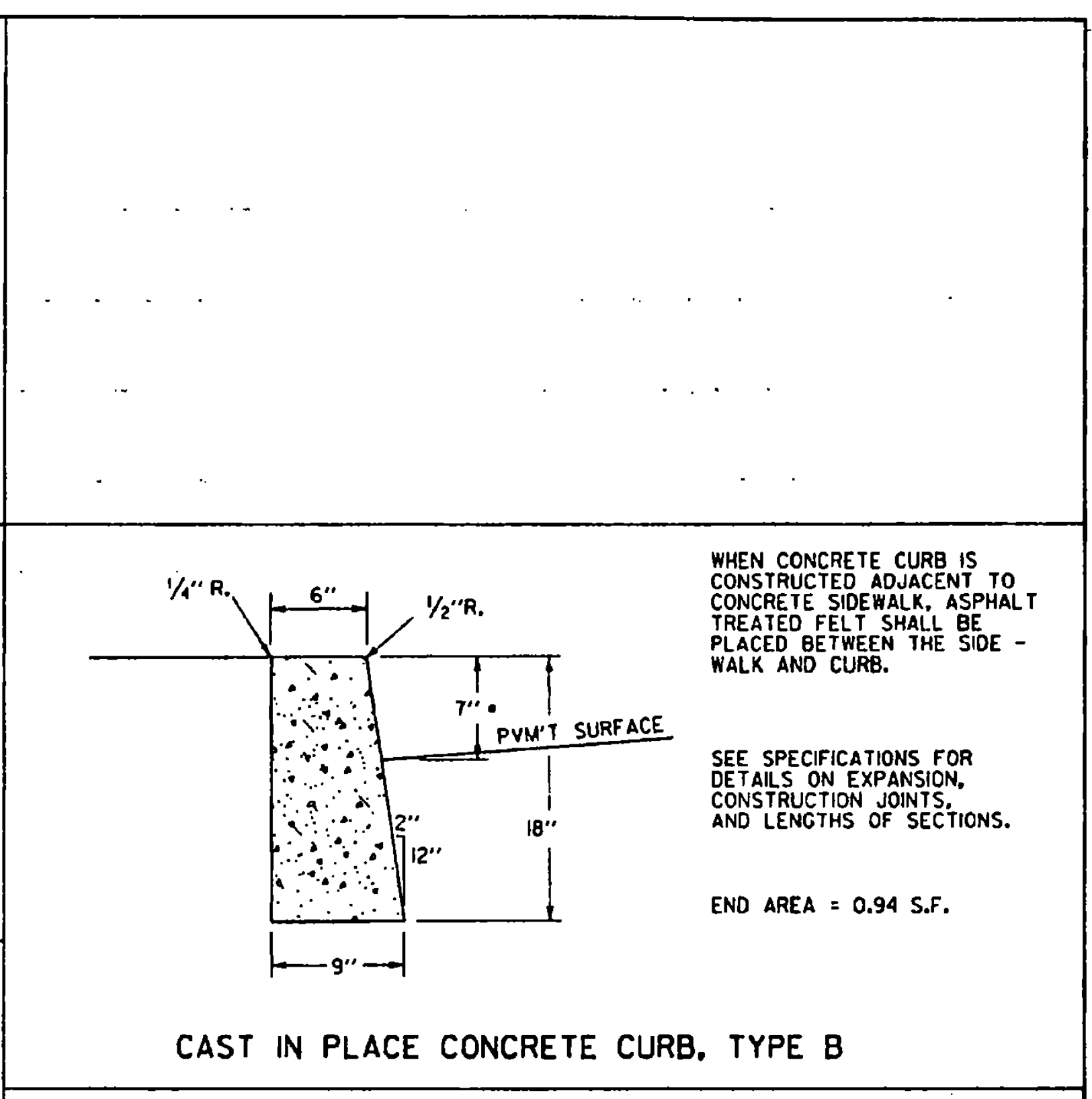
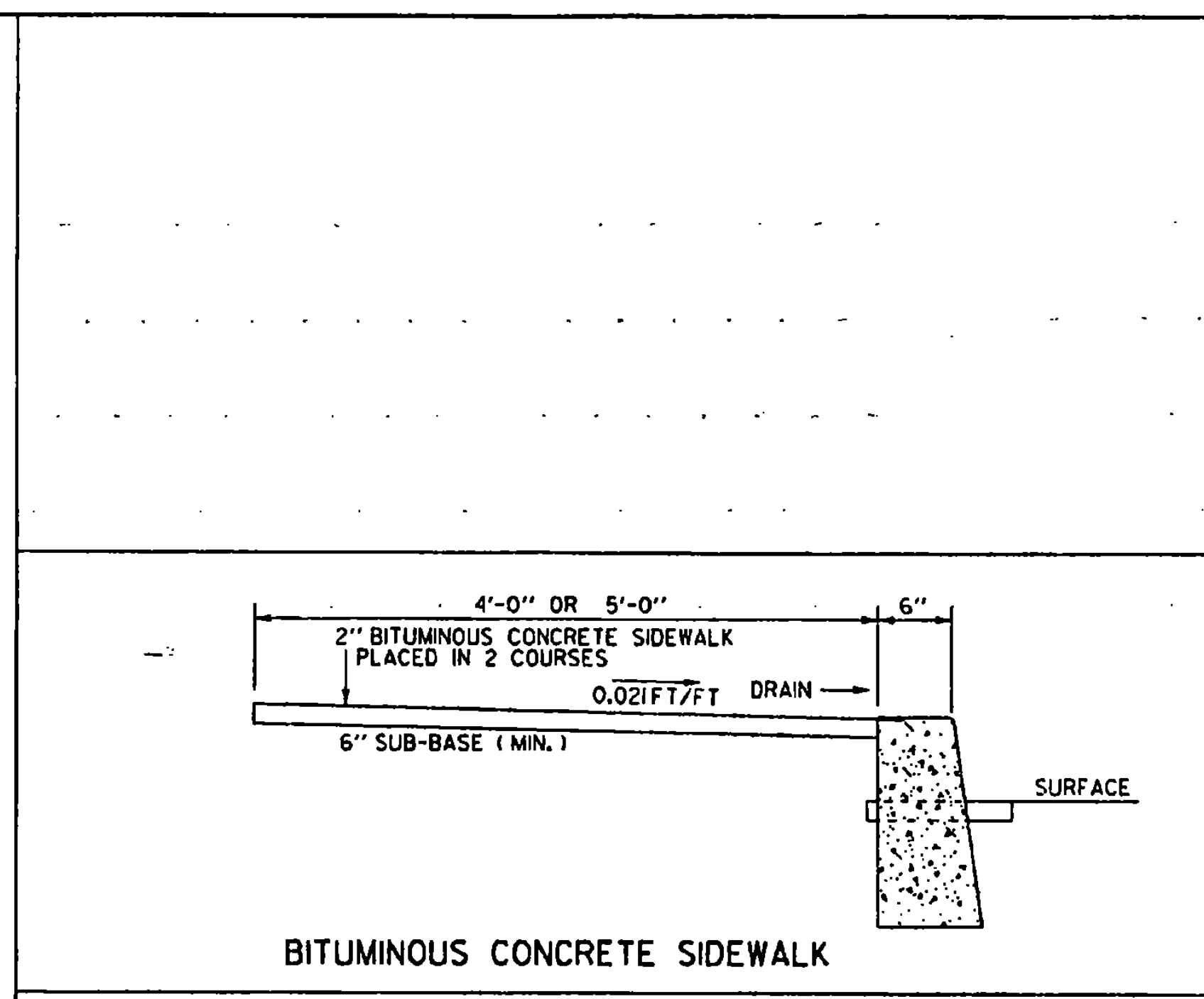
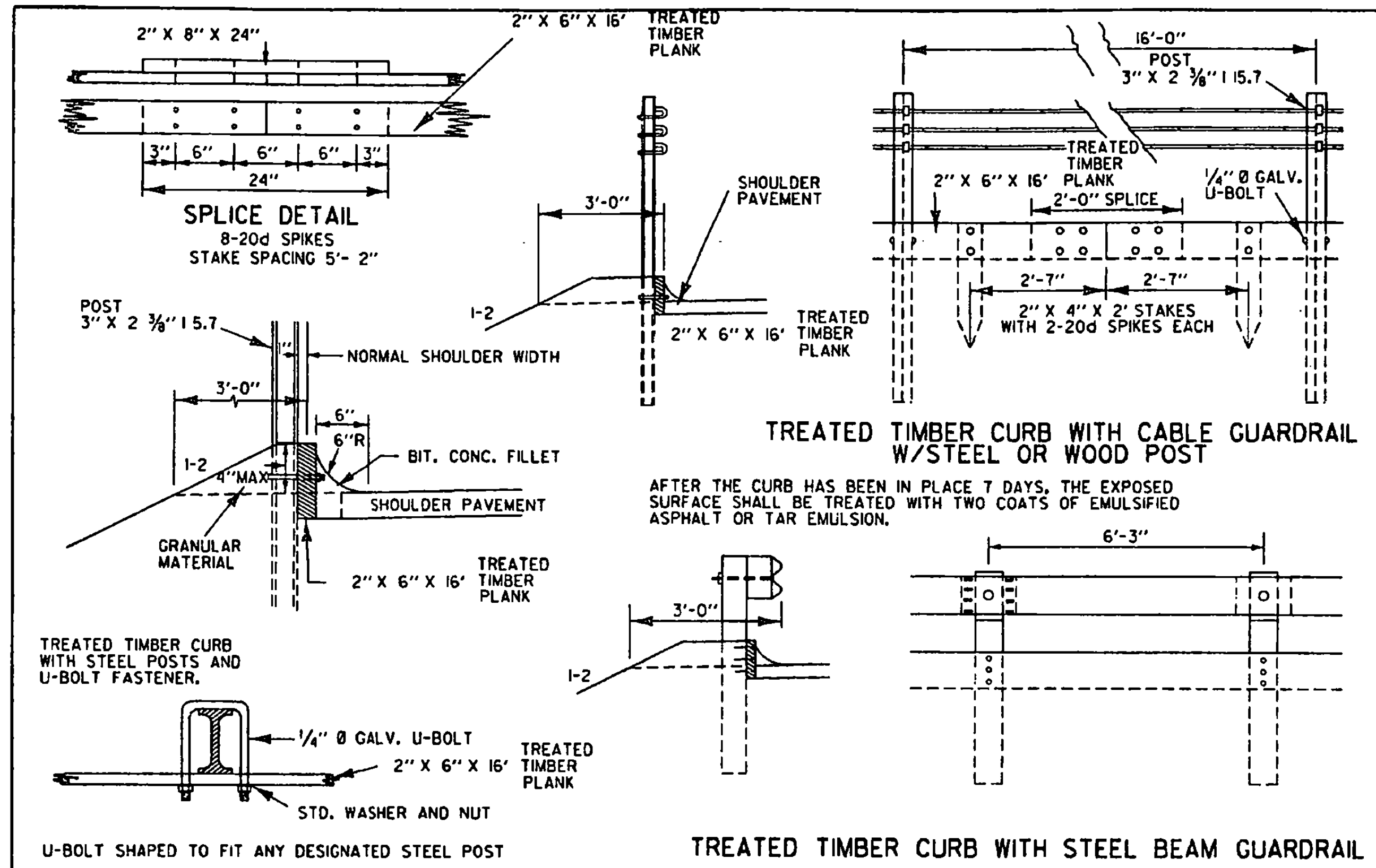
FILE NAME: 8-17-93-2-10-NORTH; BY: JLF; DATE: 10-04-07-12

DATUM
VERTICAL N/A
HORIZONTAL N/A

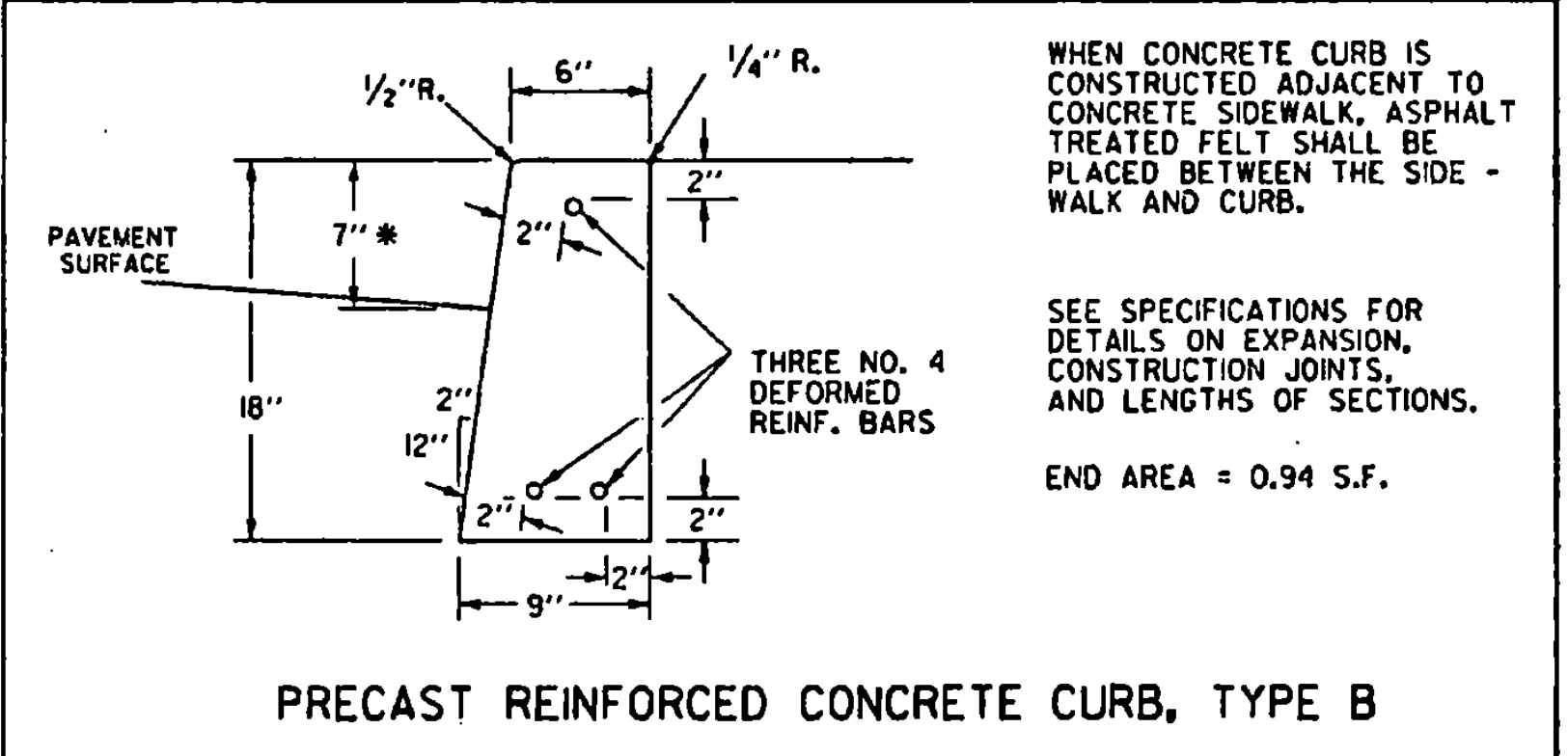
CONSTRUCTION APPROACH SIGNING

SURVEYED BY	SJB/JHF	DATE	N/A
DRAWN BY	TLB	DATE	12/93
SQUAD LEADER	SJB		
DESIGN FILE NO.		DATE PLOTTED	
IPARM FILE			
PROJ. NAME	NORTHFIELD-BERLIN		
PROJ. NO.	STP SIGN 9467		
SHEET	39	OF	39 SHEETS

NOT TO SCALE



NOTE
* HEIGHT NOT TO EXCEED 4" WHEN CURBING IS INSTALLED ADJACENT TO GUARDRAIL (STANDARD SHAPE TO BE BURIED TO THIS DEPTH)



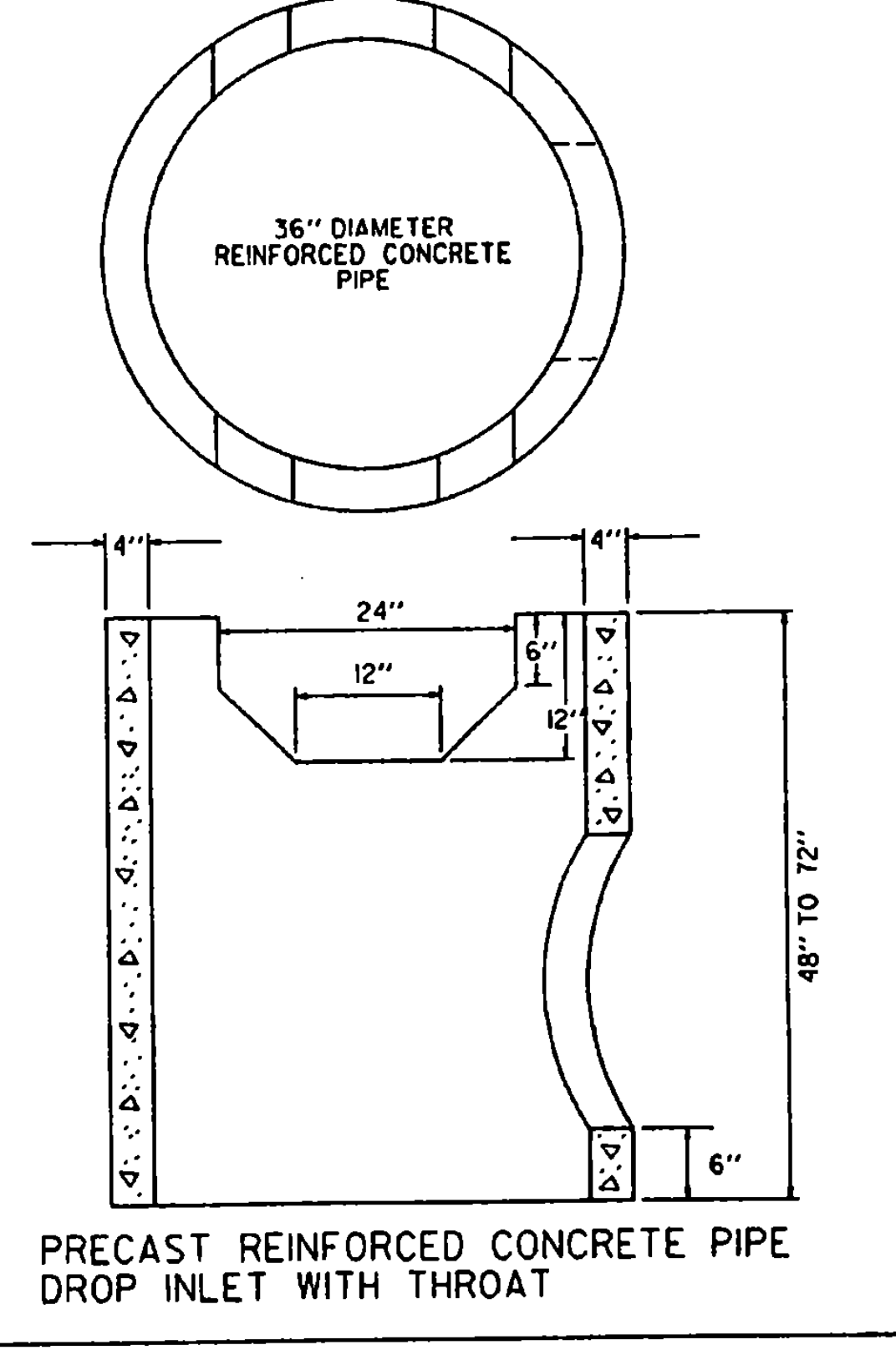
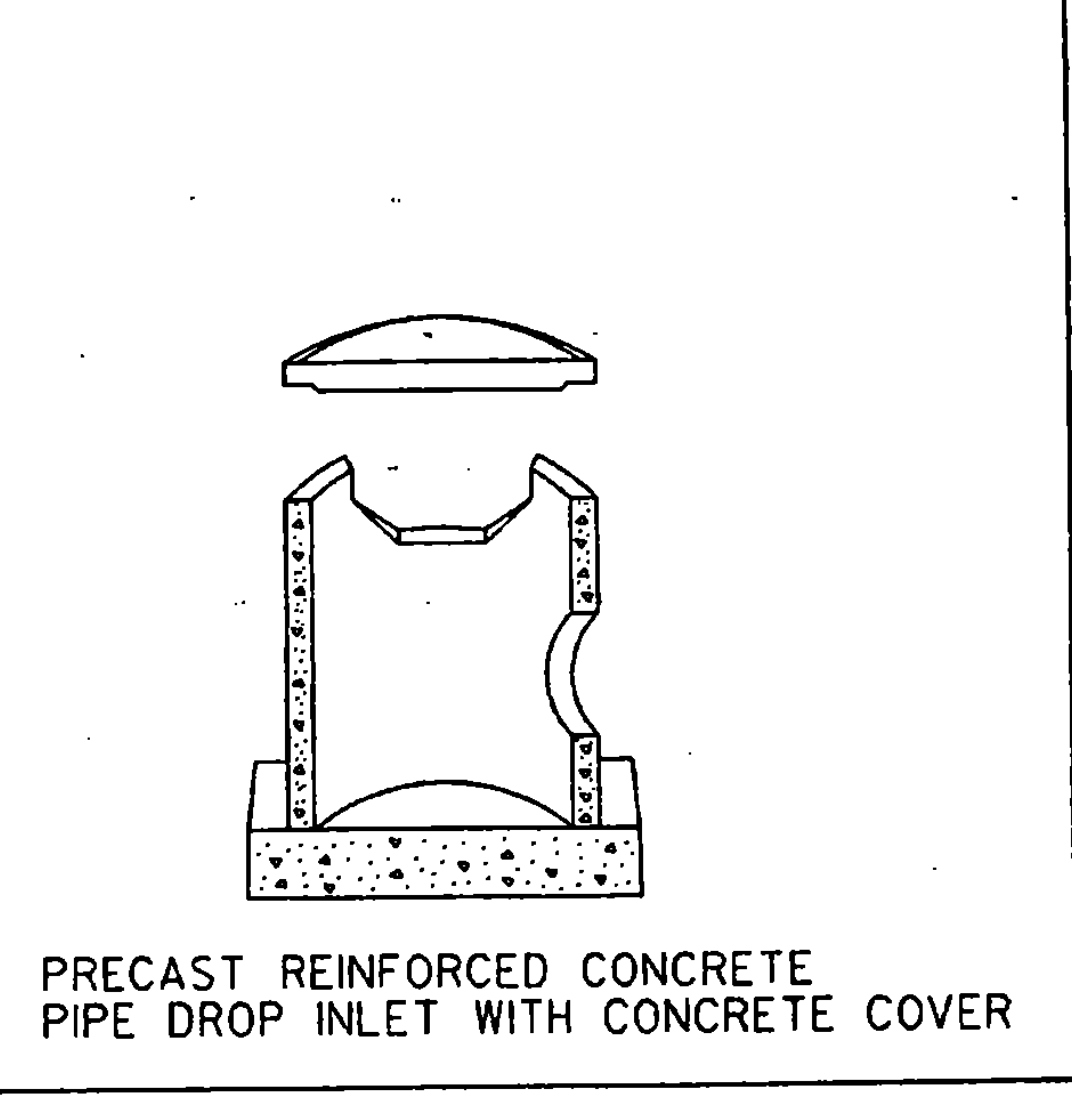
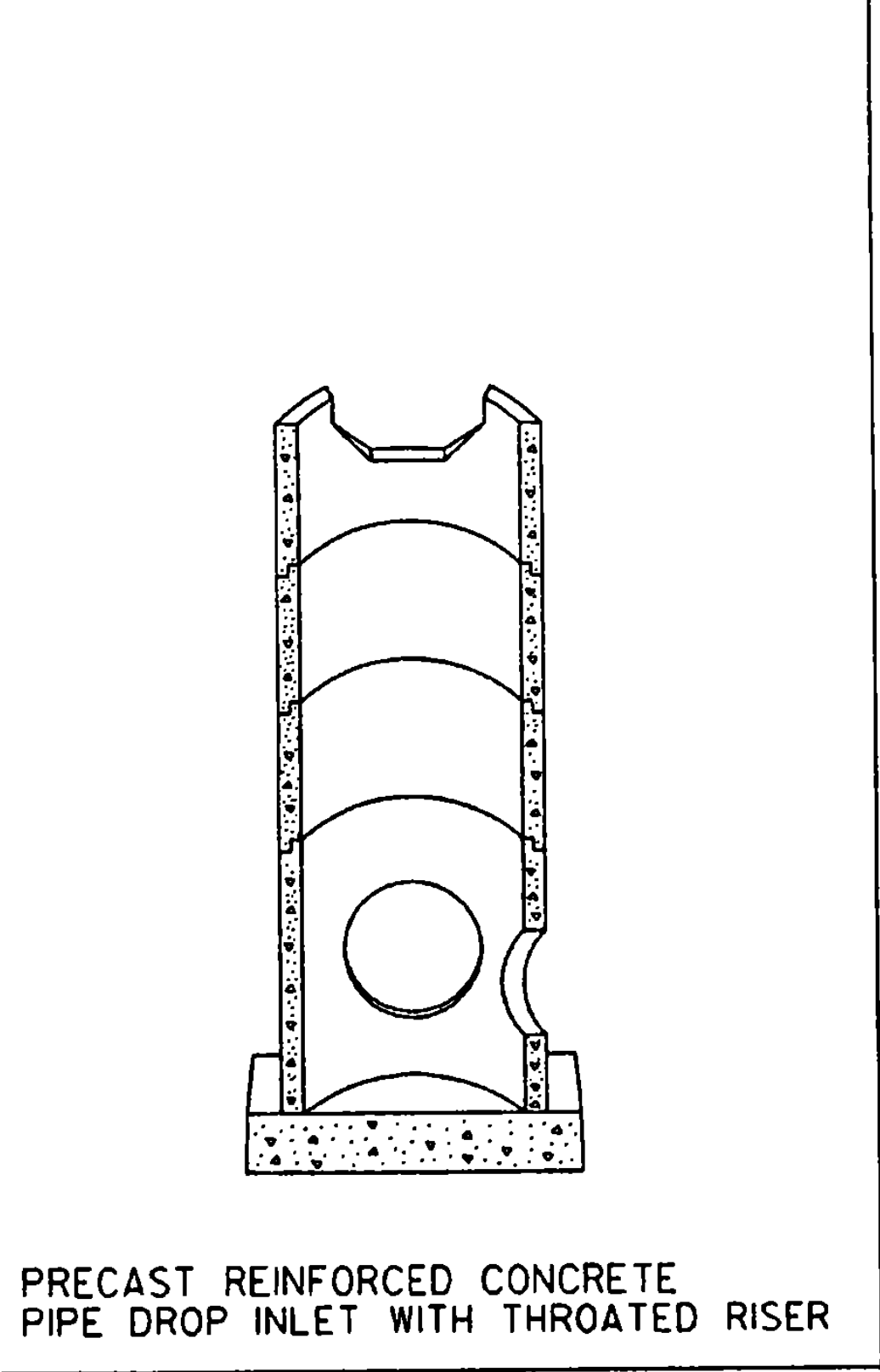
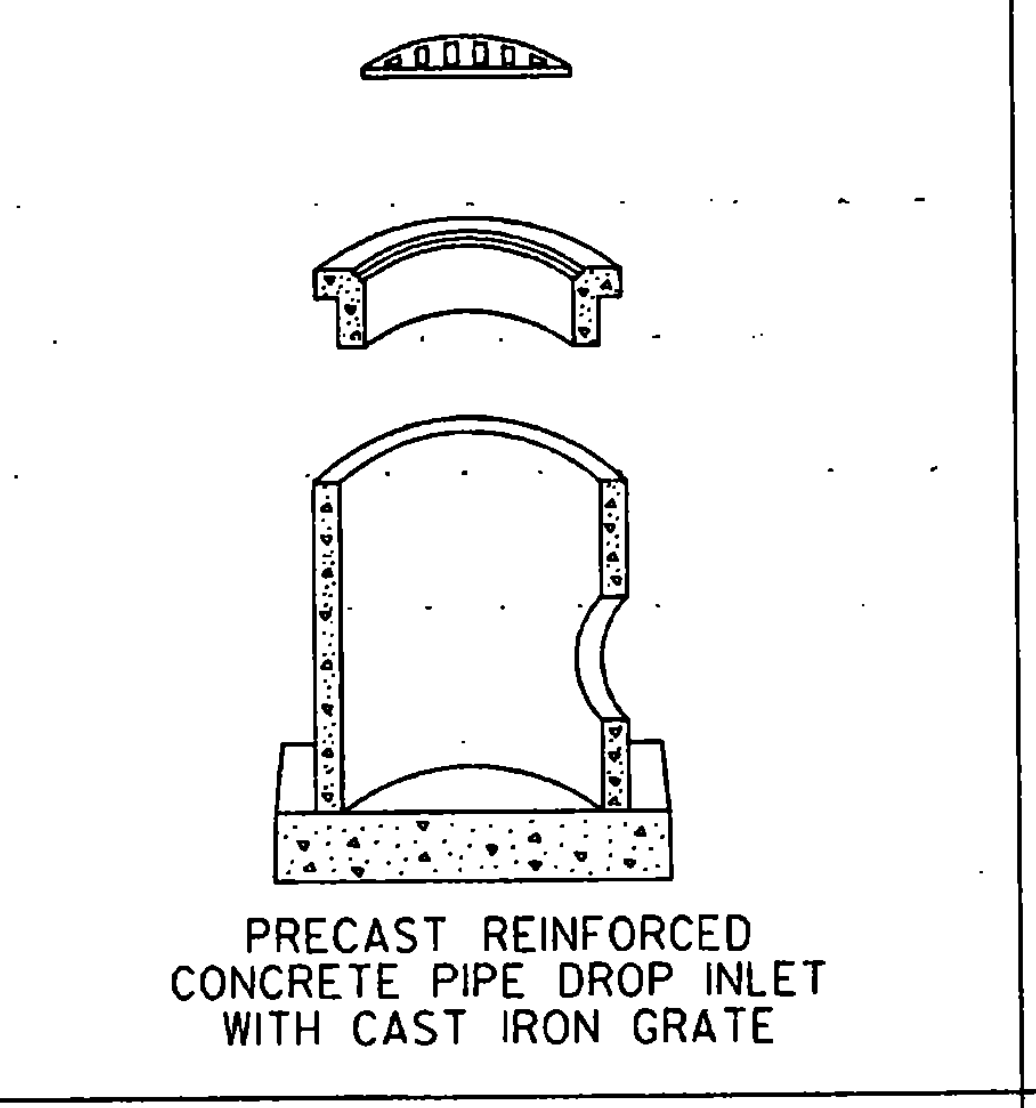
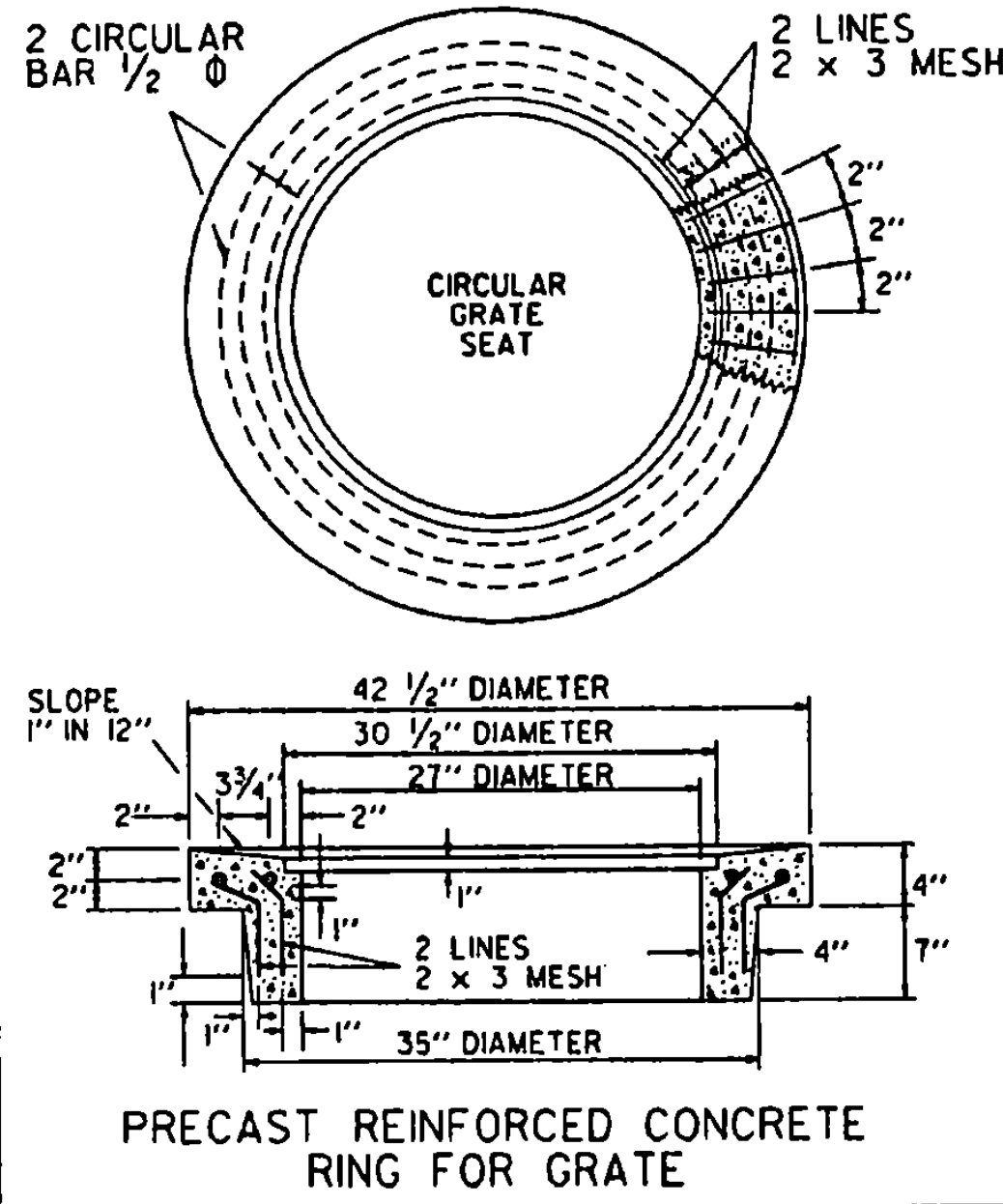
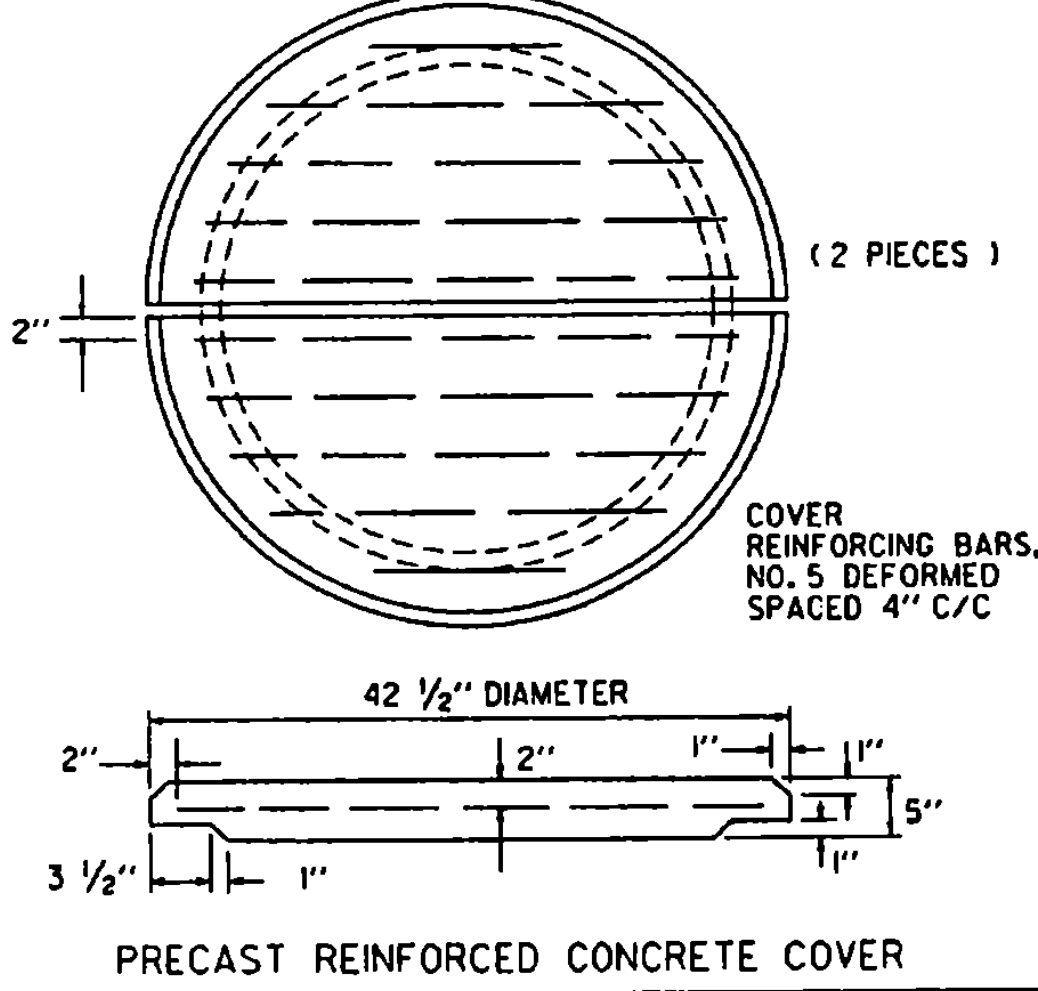
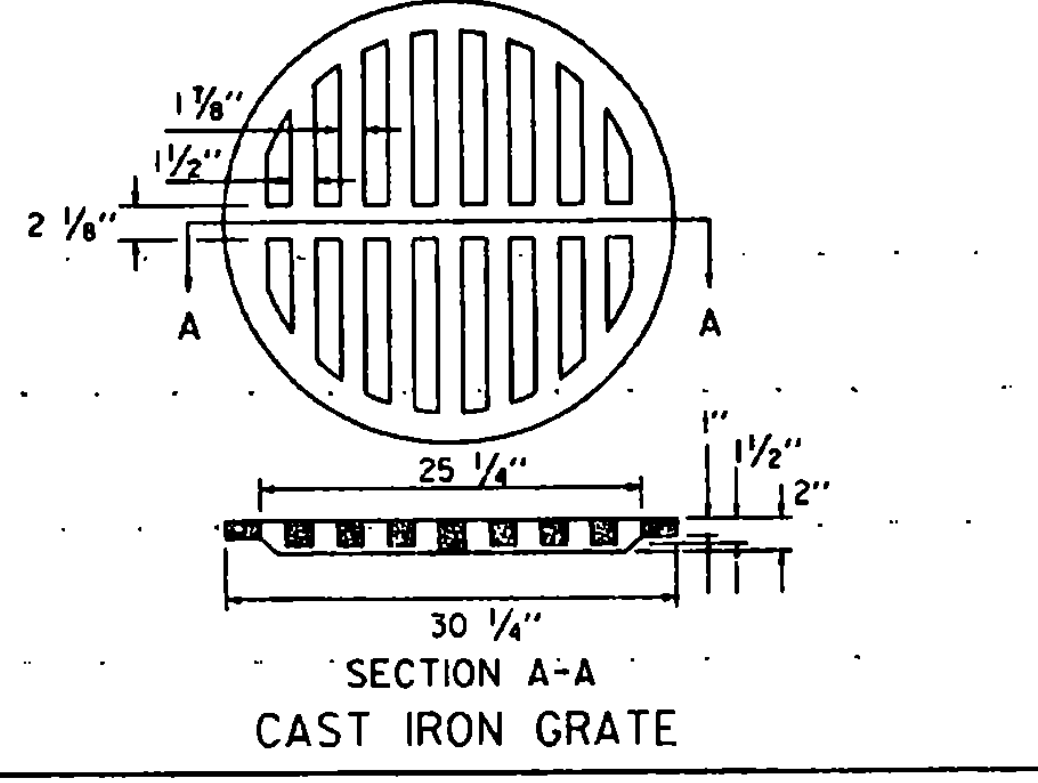
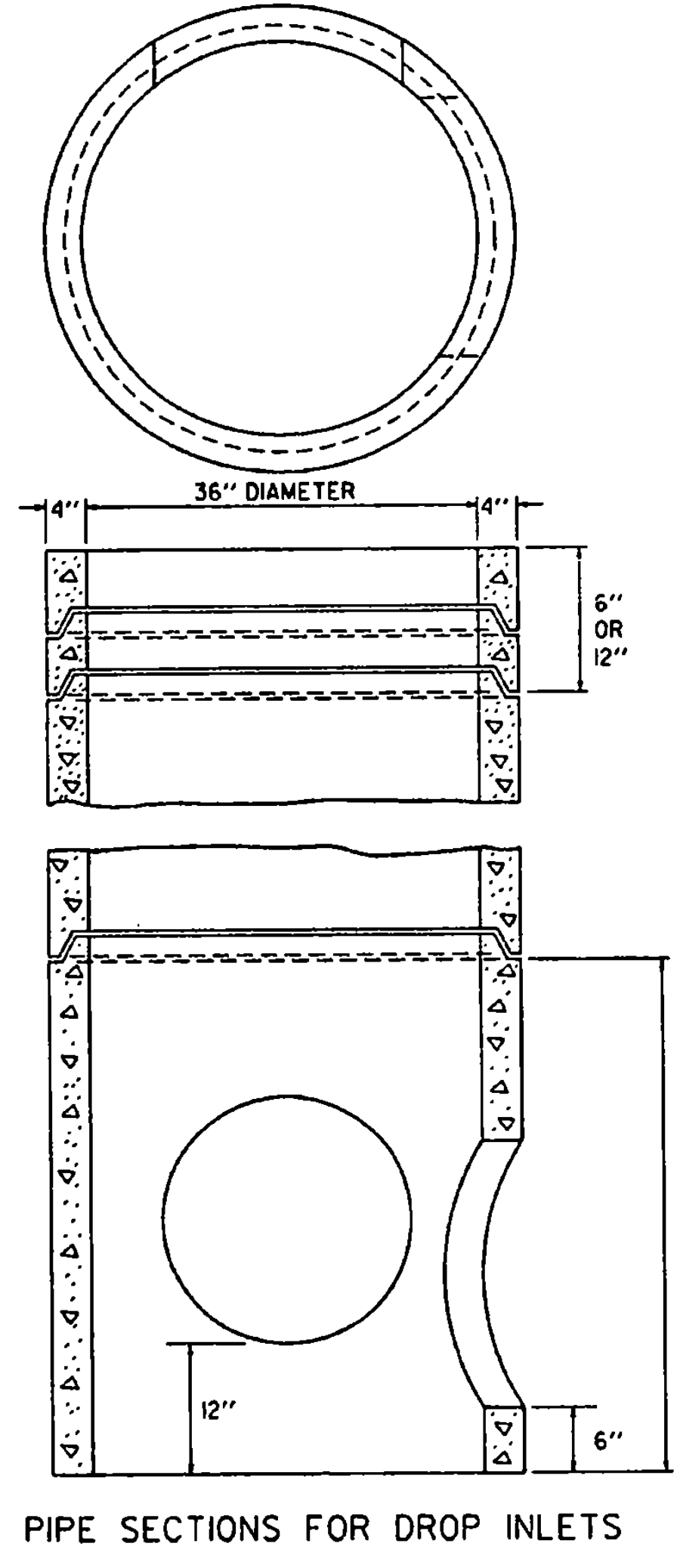
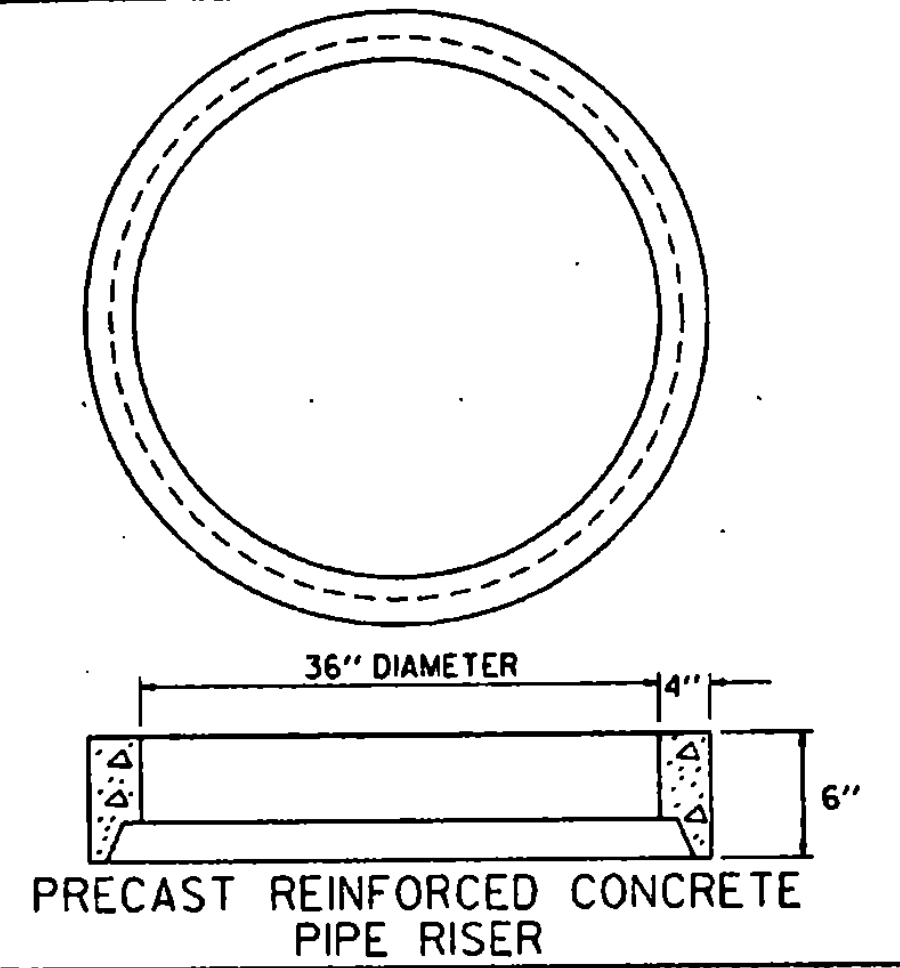
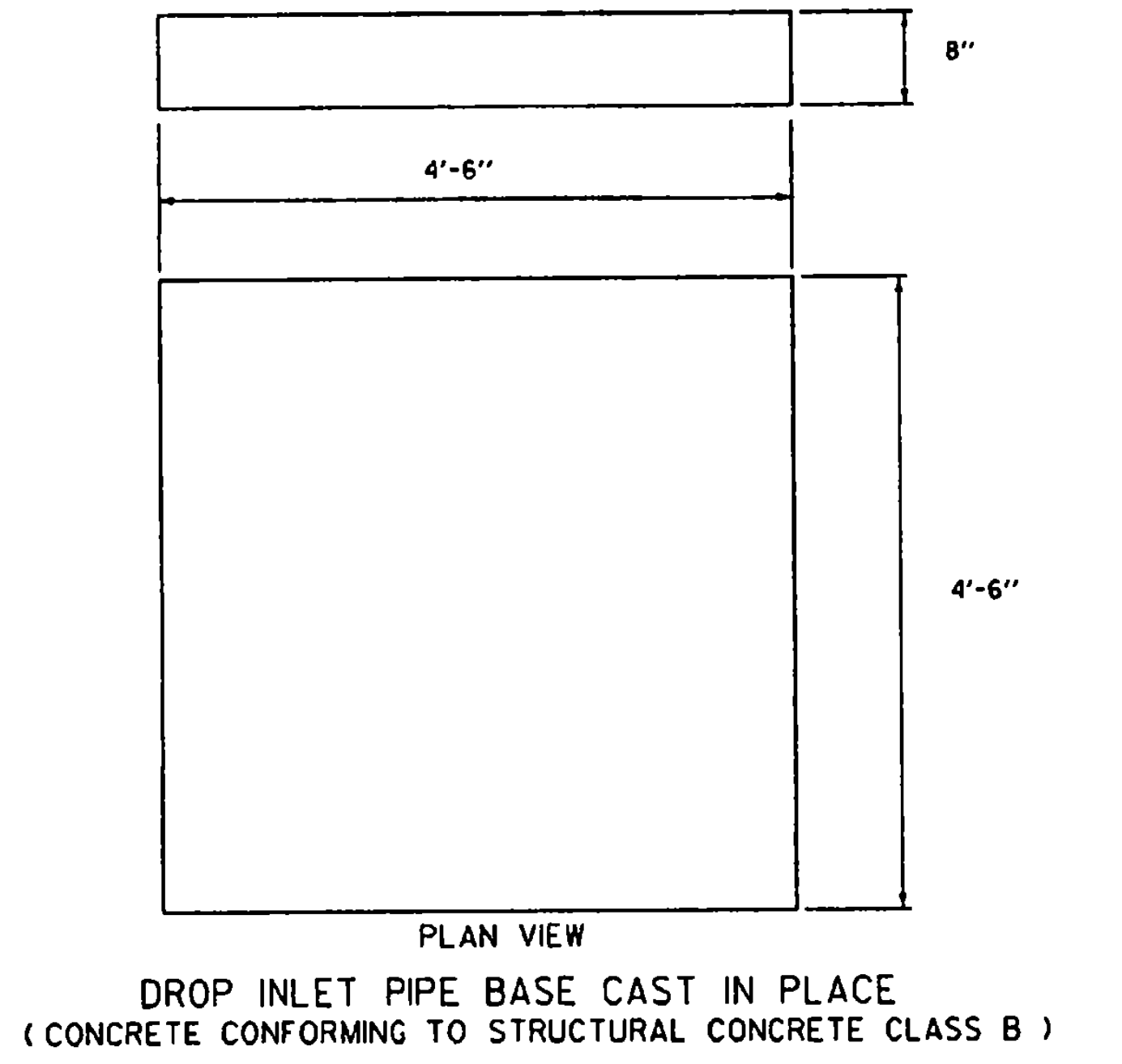
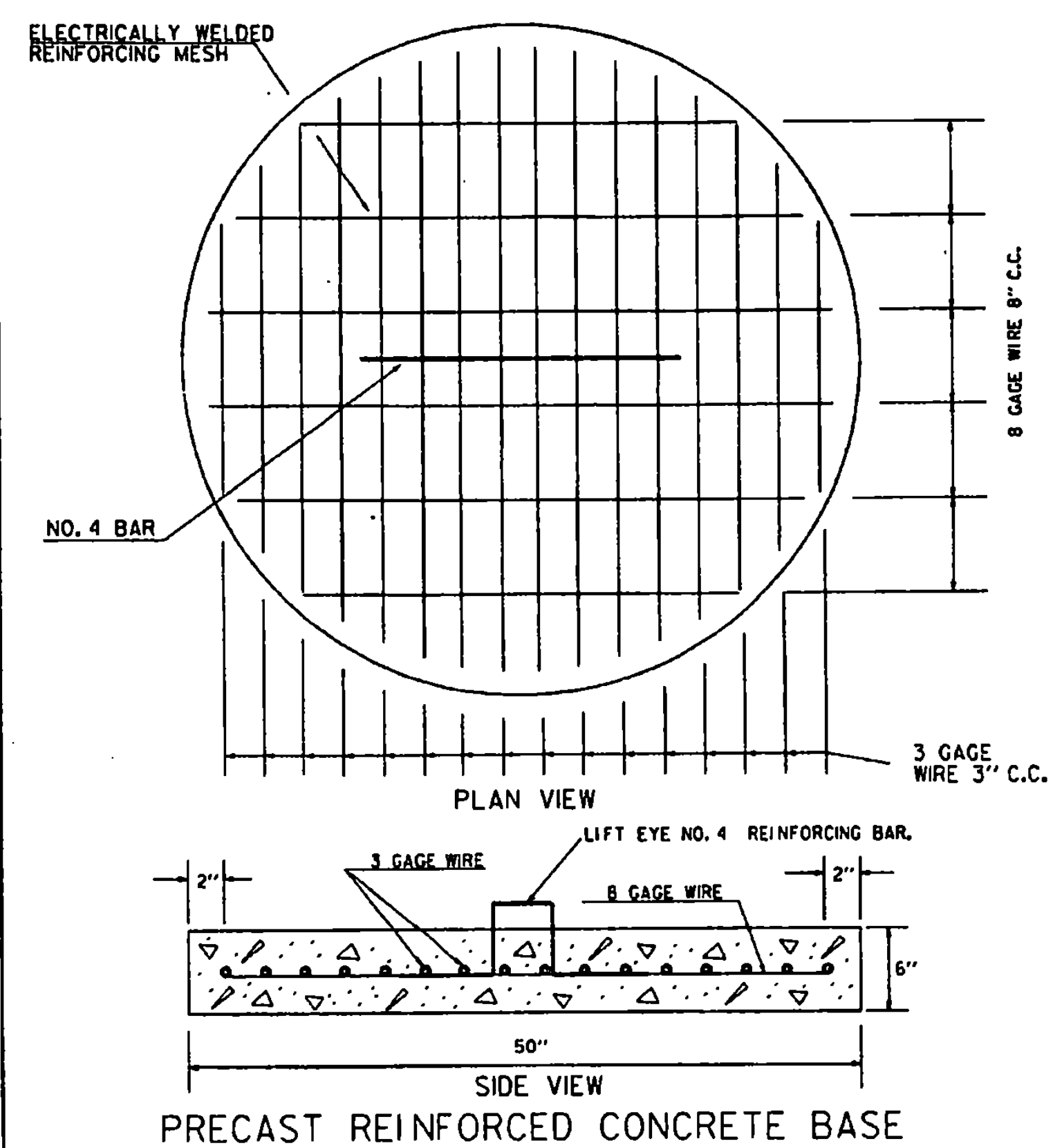
REVISIONS AND CORRECTIONS
DEC. 8, 1971 - ORIGINAL APPROVAL DATE
NOV 16, 1992 - CHANGED 6" CURB TO 4"
JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

APPROVED
APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, EXTRA FINAL APPROVAL PENDING.
Stephen D. McArthur, PE
DIRECTOR OF ENGINEERING
John D. Manning, PE
DESIGN ENGINEER

GRANITE SLOPE EDGING
VERTICAL GRANITE CURB
PRECAST REINFORCED CONCRETE CURB
CAST IN PLACE CONCRETE CURB
TREATED TIMBER CURB

VERMONT AGENCY OF TRANSPORTATION

STANDARD C-1



NOTE:
THESE DROP INLETS SHOULD NOT BE USED IN AREAS OF VEHICULAR TRAFFIC OR IN BENCHES ON CUT SLOPES

REVISIONS AND CORRECTIONS

DEC. 6, 1971 - ORIGINAL APPROVAL DATE

JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

APPROVED

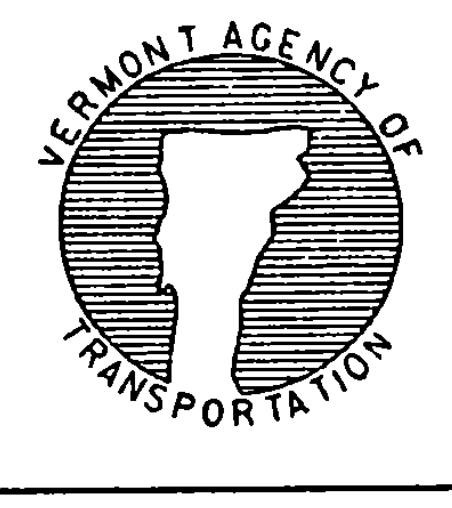
APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FINAL APPROVAL PENDING.

Stephen D. MacArthur, P.E.
DIRECTOR OF ENGINEERING

John D. Murphy, P.E.
DESIGN ENGINEER

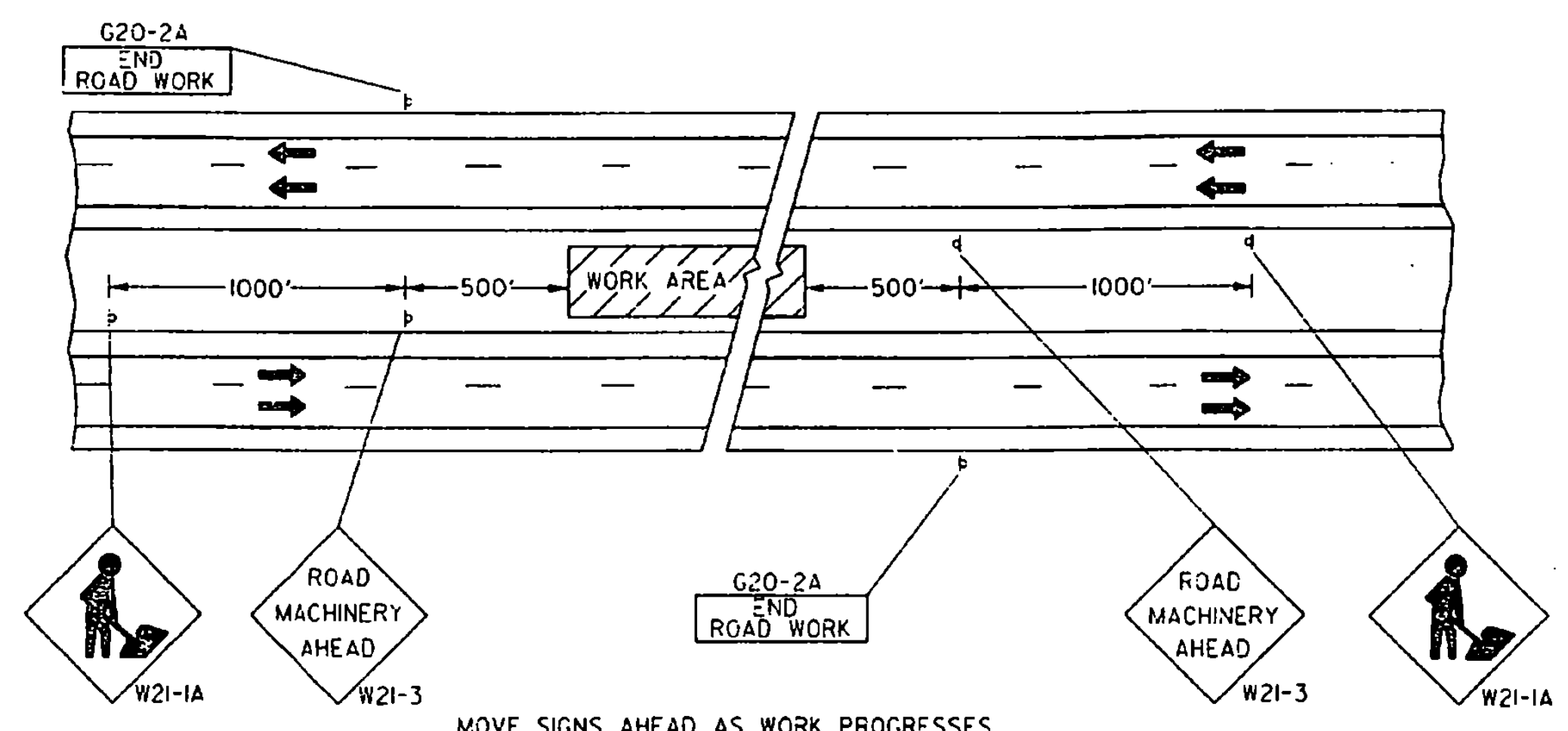
PRECAST REINFORCED CONCRETE PIPE DROP INLET WITH CAST IRON GRATE

PRECAST REINFORCED CONCRETE PIPE DROP INLET WITH CONCRETE COVER

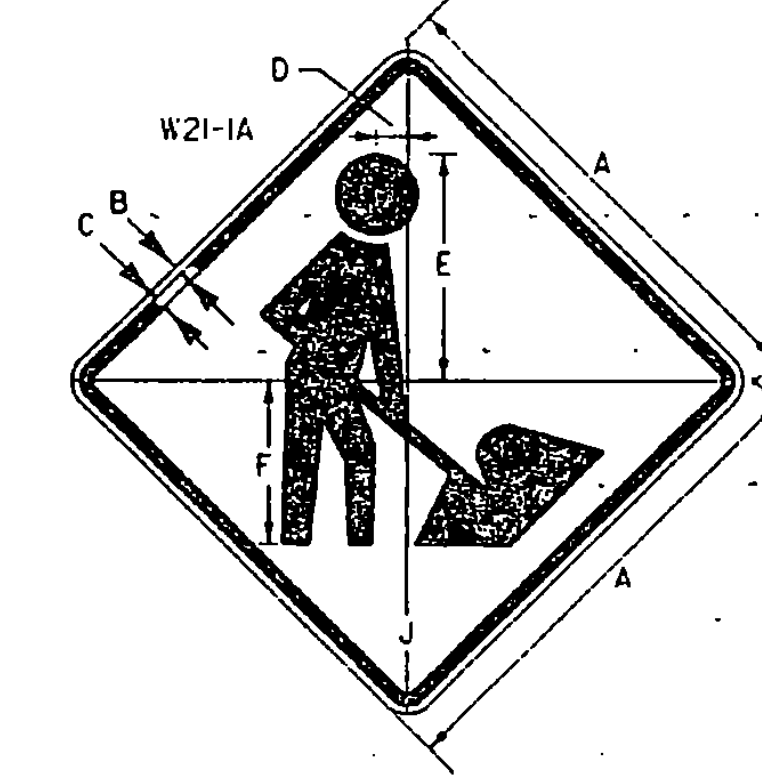


STANDARD

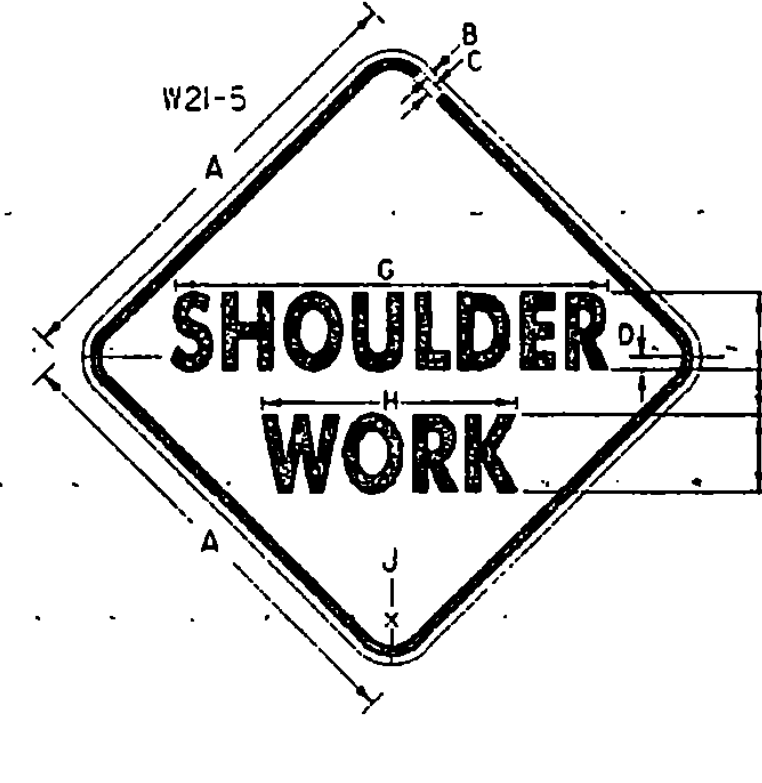
D-1



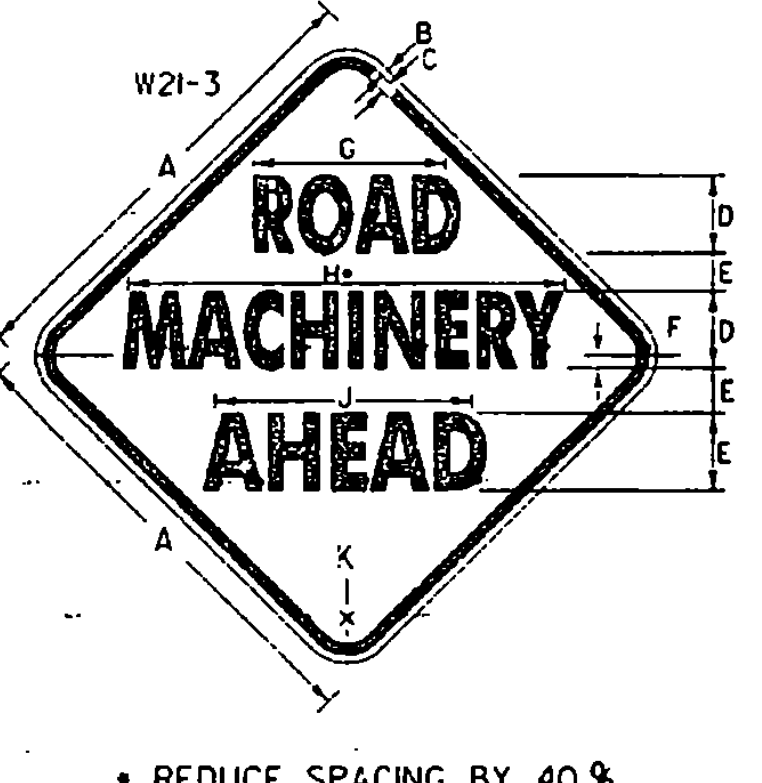
MOVE SIGNS AHEAD AS WORK PROGRESSES
**4 - LANE HIGHWAY
 MEDIAN MAINTENANCE**



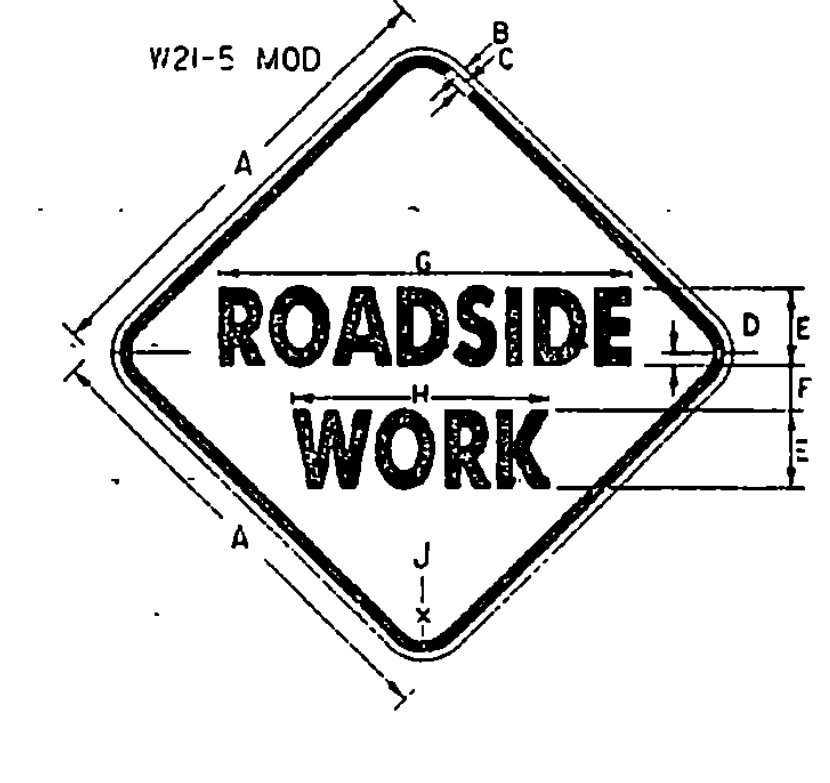
SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	
2 LANE	36	3/8	7/8	5 3/4	5 3/4	4 1/4				2 1/4
4 LANE	48	3/4	1 1/4	7 1/2	7 1/2	5				3



SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	
2 LANE	36	3/8	7/8	1	5-D	3 1/2	3 1/4	1 1/4	2 1/4	
4 LANE	48	3/4	1 1/4	1	7-C	4	3 3/8	2 1/4	3	

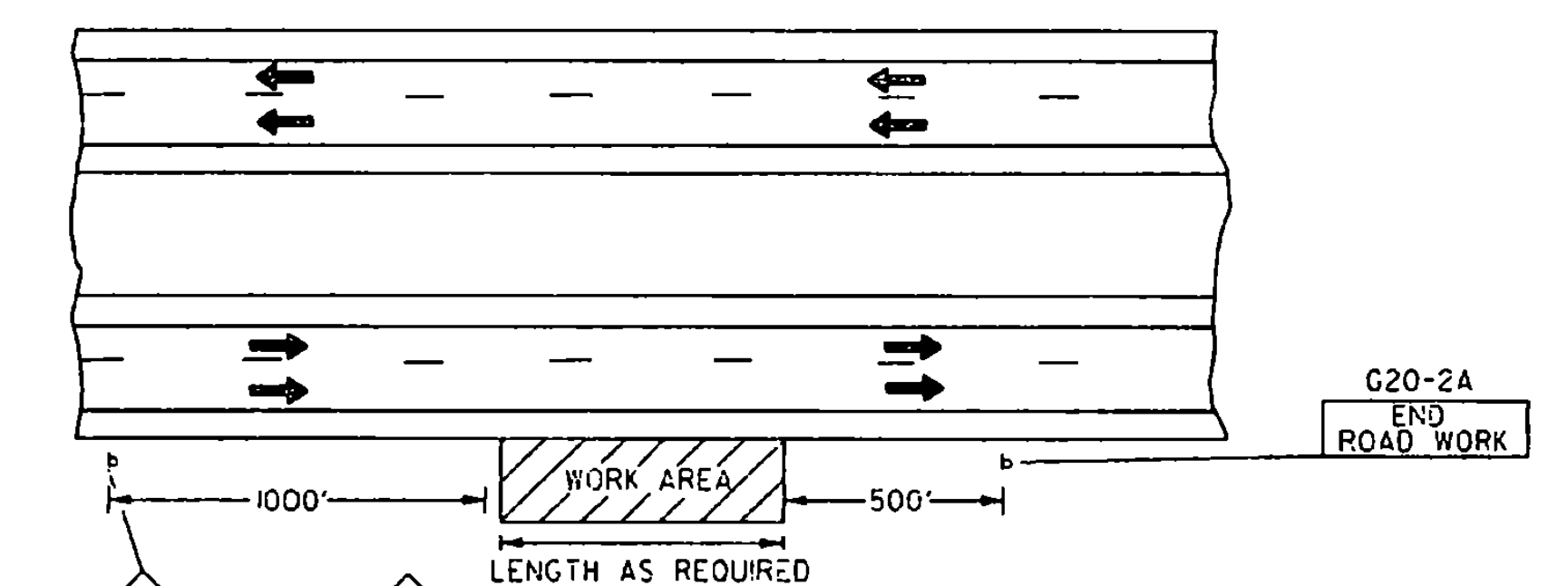


SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	
2 LANE	36	3/8	7/8	5-D	4	2 1/2	17 1/4	3 1/4	2 1/4	2 1/4	
4 LANE	48	3/4	1 1/4	7-D	5	3 1/2	24 1/2	4 1/8	3 1/4	3	

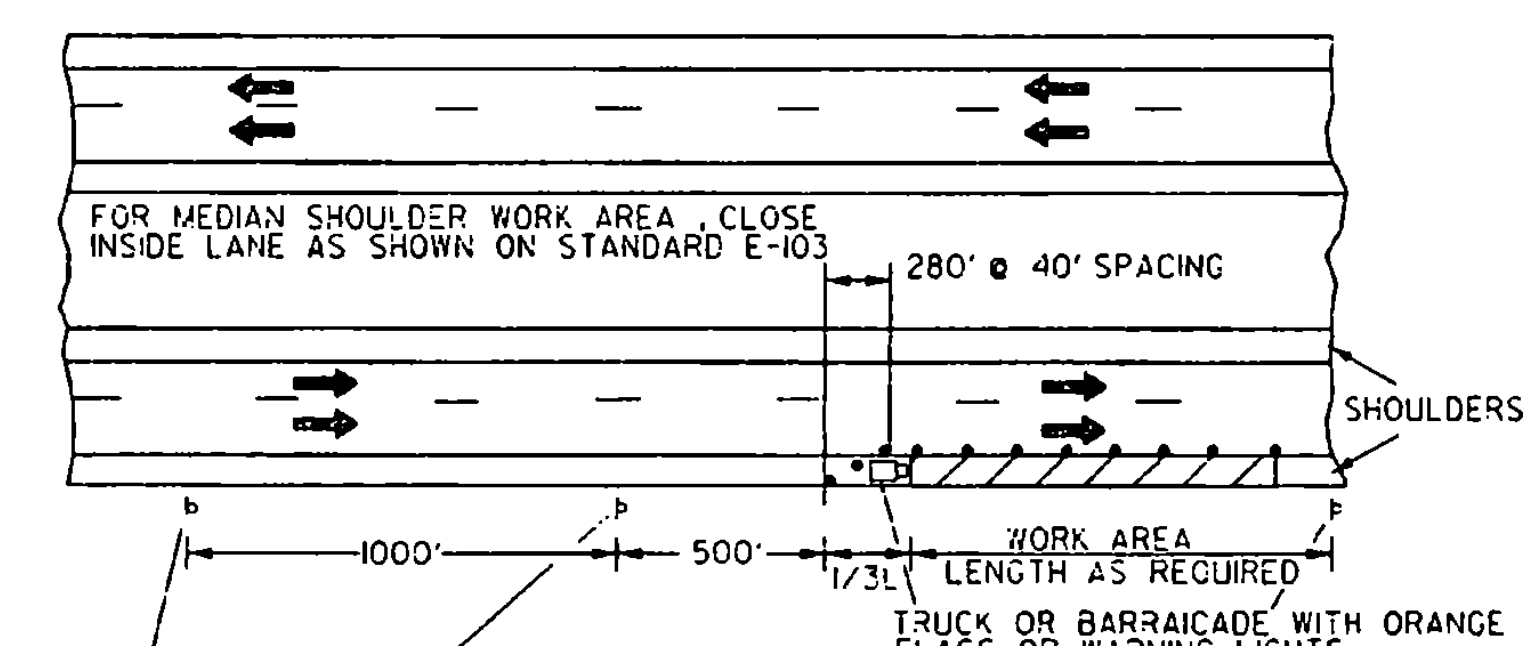


SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	
2 LANE	36	3/8	7/8	1/2	5-D	3 1/2	3 1/4	1 1/4	2 1/4	
4 LANE	48	3/4	1 1/4	1	7-C	4	3 3/8	2 1/4	3	

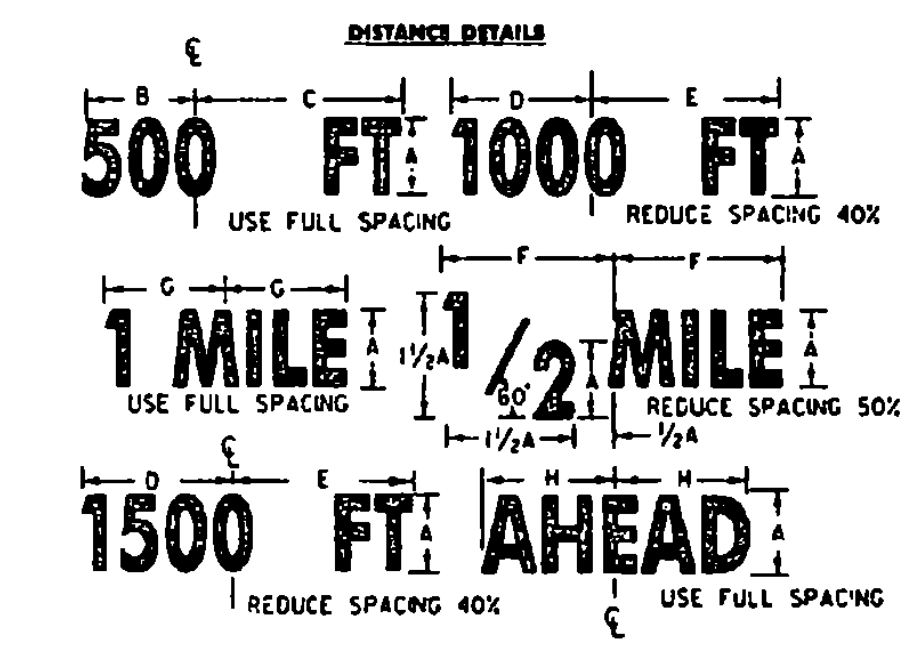
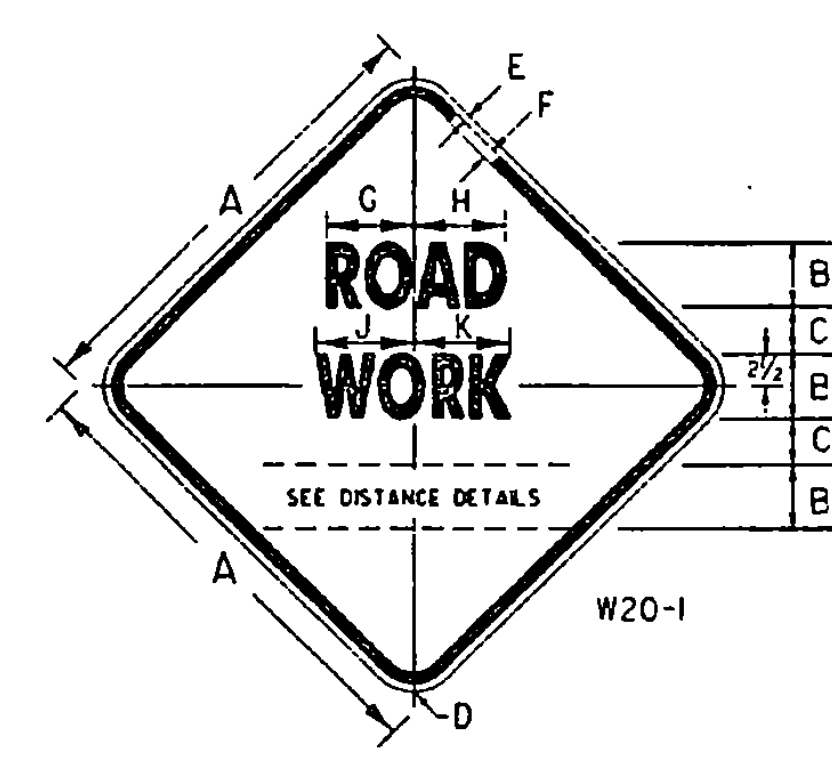
* REDUCE SPACING BY 40%



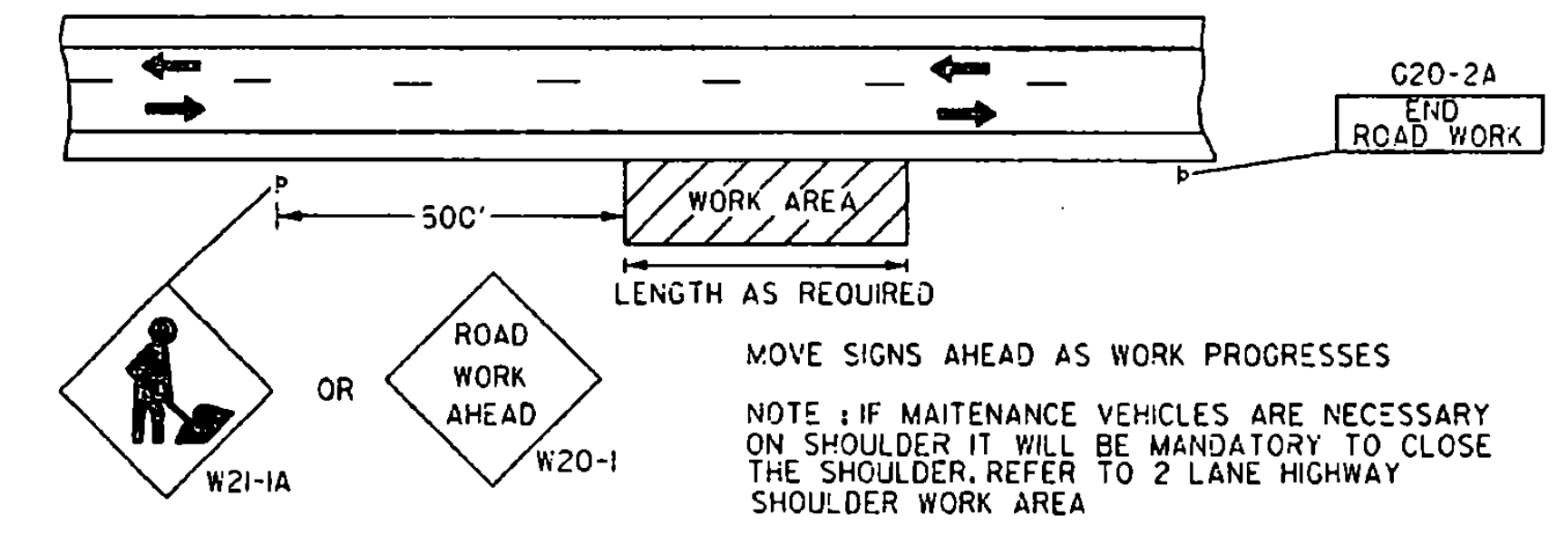
MOVE SIGNS AHEAD AS WORK PROGRESSES
**4 - LANE HIGHWAY
 MAINTENANCE OUTSIDE SHOULDER**



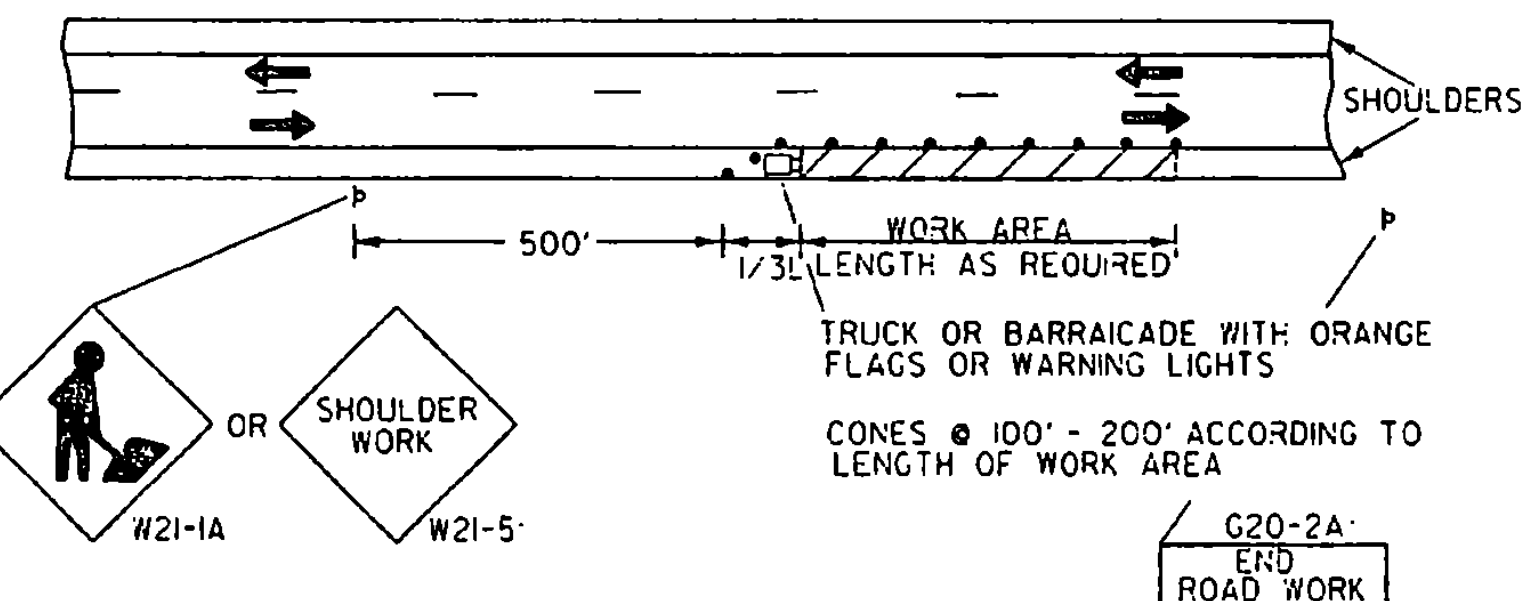
TRUCK OR BARRICADE WITH ORANGE FLAGS OR WARNING LIGHTS
 CONES @ 100' - 200' ACCORDING TO LENGTH OF WORK AREA
**4 - LANE DIVIDED HIGHWAY
 SHOULDER WORK AREA**



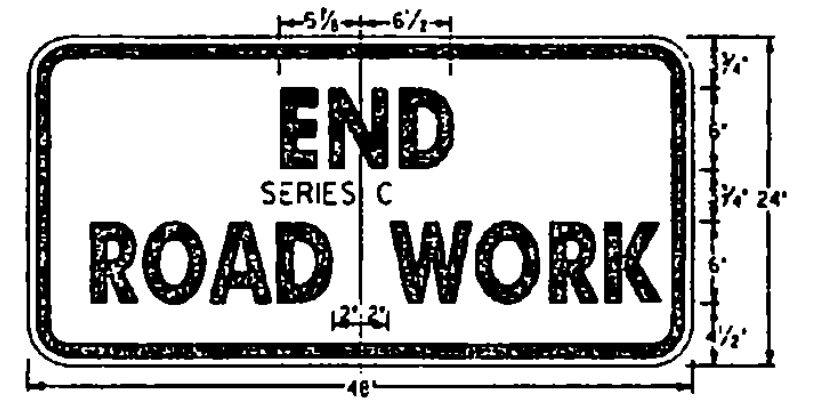
NOTES:
 REFLECTORIZATION:
 ALL REFLECTIVE MATERIAL SHALL CONSIST OF ENCAPSULATED LENS REFLECTIVE SHEETING. THE TEXT AND BORDERS MAY BE SCREENED, LETTERING FILM, OR HAND PAINTED.
 COLORS:
 THE WARNING SIGNS SHOWN ON THIS SHEET SHALL HAVE A BLACK TEXT AND BORDER ON A REFLECTORIZED ORANGE BACKGROUND. THE ORANGE SHALL CONFORM WITH THE STANDARD COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE U.S. DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
 TEXT DESIGN:
 LETTERS, SPACING, AND TEXT DIMENSIONS SHALL CONFORM WITH THE STANDARD ALPHABETS AND DESIGN PRESCRIBED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 SPECIFICATIONS:
 WARNING SIGNS SHALL MEET THE STANDARD STATE SPECIFICATIONS FOR SIGNS.
 SIGN BASE MATERIAL:
 THE SIGN BASE MATERIAL USED FOR THE WARNING SIGNS SHOWN ON THIS SHEET MAY BE OF ANY OF THE FOLLOWING, WITH MINIMUM THICKNESS AS NOTED:
 (1) FLAT SHEET ALUMINUM 35x36 48x48 INCHES
 (2) HIGH DENSITY OVERLAYED PLYWOOD 5/8 3/4 INCHES
 (3) GALVANIZED SHEET STEEL 1/4 1/2 GAGE



MOVE SIGNS AHEAD AS WORK PROGRESSES
**2 - LANE HIGHWAY
 MAINTENANCE OUTSIDE SHOULDER**



TRUCK OR BARRICADE WITH ORANGE FLAGS OR WARNING LIGHTS
 CONES @ 100' - 200' ACCORDING TO LENGTH OF WORK AREA
**2 - LANE HIGHWAY
 SHOULDER WORK AREA**



**OTHER STDS. E-103
 REQUIRED:**

REVISIONS AND CORRECTIONS
 JAN. 26, 1972 - DATE OF ORIGINAL ISSUE
 FEB. 29, 1972 - REVISED PER DIRECTION OF THE FEDERAL HIGHWAY ADMINISTRATION
 MAY 14, 1974 - REFLECTIVE MATERIAL CHANGE
 JUN. 8, 1977 - REFLECTIVE MATERIAL NOTE CHANGE SIGNS REFERENCED TO NUMBERS IN M.U.T.C.D.
 AUG. 10, 1977 - PERSON WORKING SIGN CHANGED TO SYMBOL
 DEC. 9, 1981 - VINOR SIGN DIMENTION CHANGES
 FEB. 3, 1986 - UPDATED TO 1986 SPECIFICATIONS
 AUG. 08, 1995 - UPDATED TO 1993 CHAPTER 6 - M.U.T.C.D.

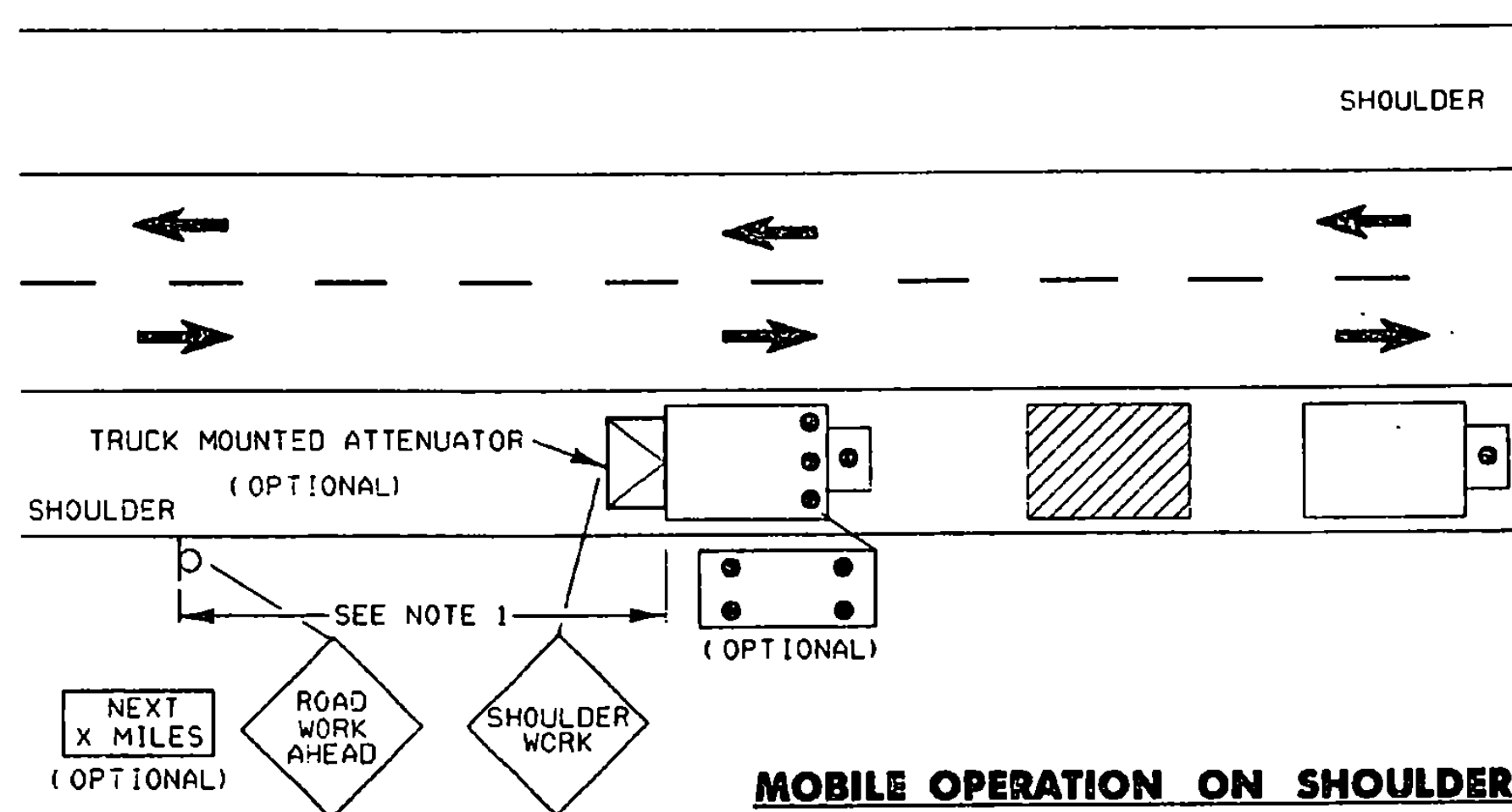
APPROVED
Stephen D. McArthur
 DIRECTOR OF ENGINEERING
David A. Ross
 TRAFFIC AND SAFETY ENGINEER

**TRAFFIC SIGNS
 TYPICAL MINOR
 MAINTENANCE OPERATION
 APPROACH SIGNS**

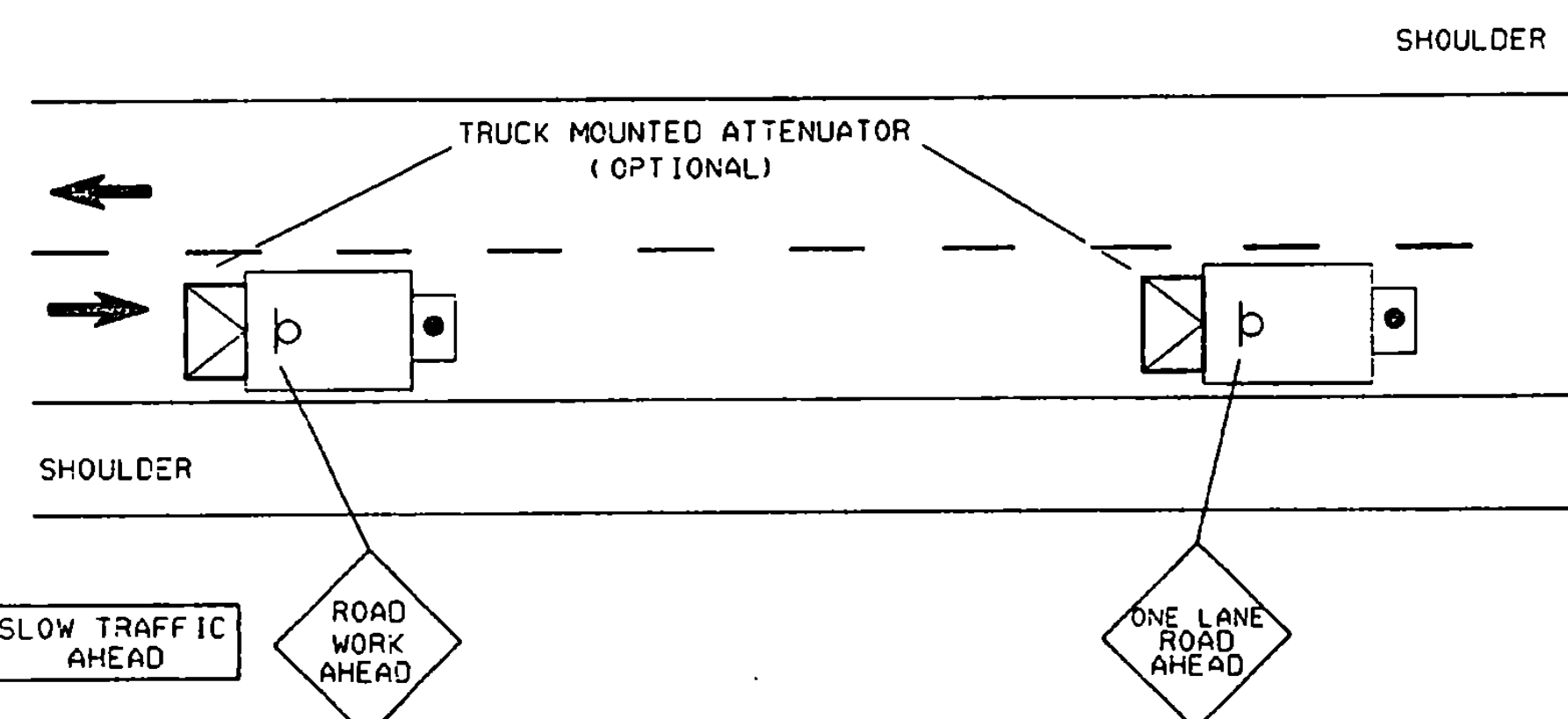
VERMONT AGENCY OF TRANSPORTATION
**STANDARD
 E-10**

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

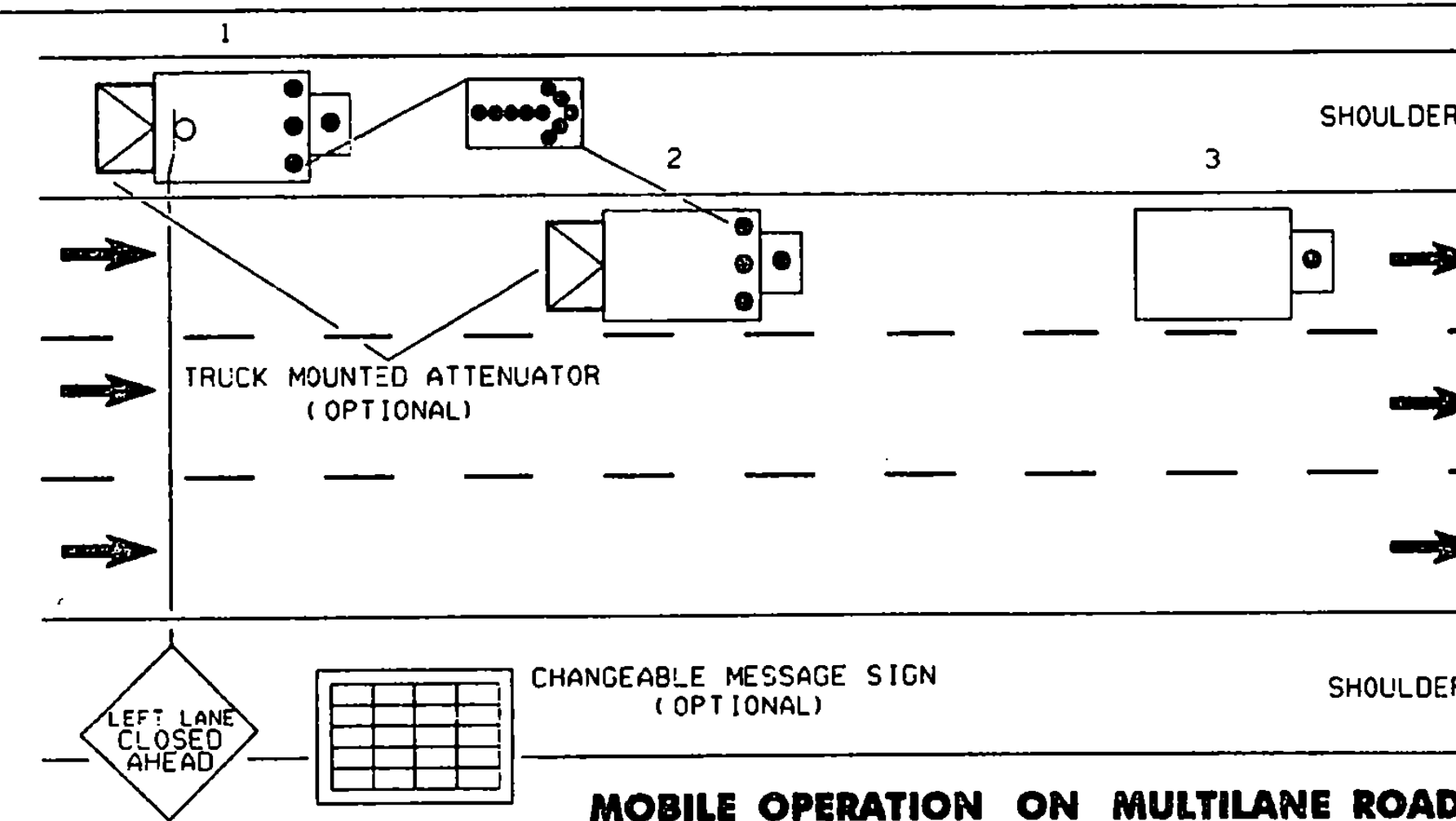
/traf/std/stdel0.dgn : stcel0.i



MOBILE OPERATION ON SHOULDER



MOBILE OPERATION ON TWO LANE ROAD



MOBILE OPERATION ON MULTILANE ROAD

NOTES:

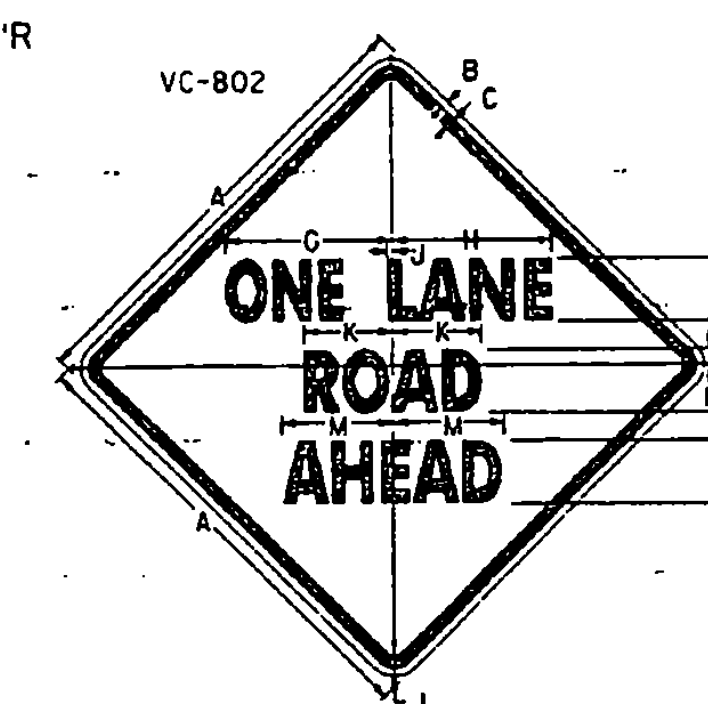
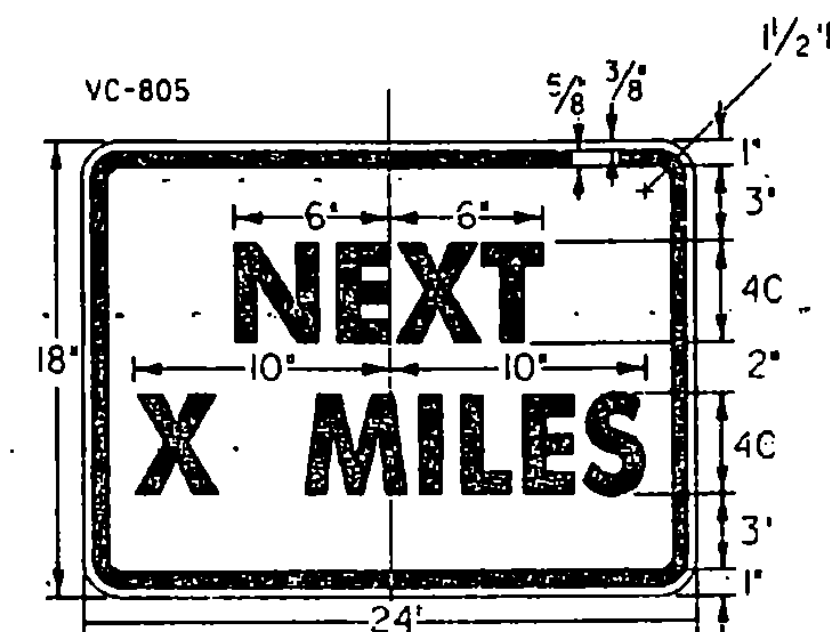
1. IN SITUATIONS WHERE MULTIPLE WORK LOCATIONS IN A LIMITED DISTANCE MAKE IT PRACTICABLE TO PLACE STATIONARY SIGNS, THE MAXIMUM SPACING FOR THE ADVANCE OF THE WORK.
2. THE LENGTH OF ACTIVITY AREA SIGN MAY BE USED AS THE STATIONARY ADVANCE WARNING SIGN IF THE WORK LOCATIONS OCCUR OVER A DISTANCE OF MORE THAN 2 MILES.
3. WARNING SIGNS ARE NOT REQUIRED IF THE WORK VEHICLE DISPLAYS A FLASHING OR REVOLVING YELLOW LIGHT, IF THE DISTANCE BETWEEN WORK LOCATIONS IS 1 MILE OR MORE, AND IF THE WORK VEHICLE TRAVELS AT TRAFFIC SPEEDS BETWEEN LOCATIONS.

NOTES:

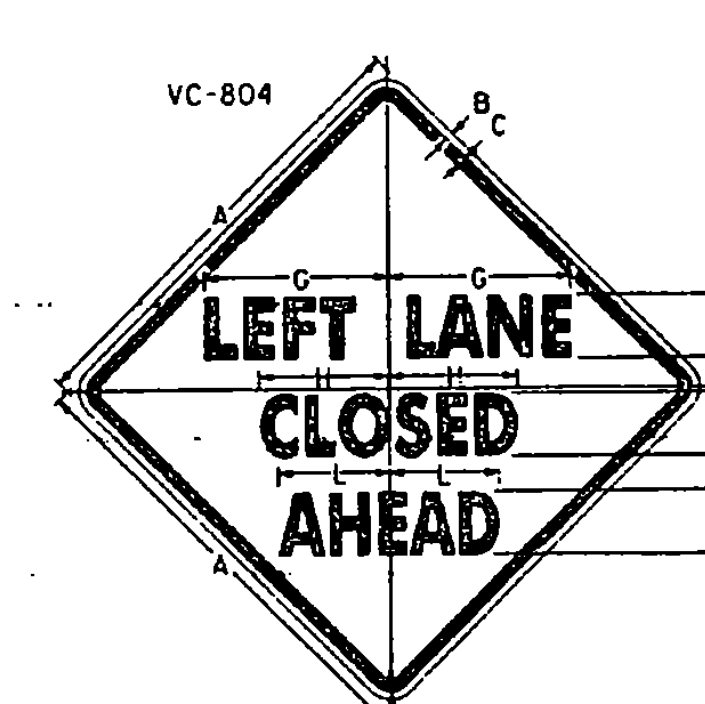
1. WHERE PRACTICABLE AND WHEN NEEDED, THE WORK AND PROTECTION VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS. IF THIS CAN NOT BE DONE FREQUENTLY, AS AN ALTERNATIVE, A DO NOT PASS SIGN MAY BE PLACED ON THE REAR OF THE VEHICLE BLOCKING THE LANE.
2. THE DISTANCE BETWEEN THE WORK AND PROTECTION VEHICLES MAY VARY ACCORDING TO TERRAIN, PAINT DRYING TIME, AND OTHER FACTORS. PROTECTION VEHICLES ARE USED TO WARN TRAFFIC OF THE OPERATION AHEAD. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, THE PROTECTION VEHICLE SHOULD MAINTAIN THE MINIMUM DISTANCE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. THE PROTECTION VEHICLE SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
3. ADDITIONAL PROTECTION VEHICLES TO WARN AND REDUCE THE SPEED OF ONCOMING OR OPPOSING TRAFFIC MAY BE USED. POLICE PATROL CARS MAY BE USED FOR THIS PURPOSE.
4. A TRUCK - MOUNTED ATTENUATOR (TMA) SHALL BE USED ON THE PROTECTION VEHICLE AND SHOULD BE CONSIDERED ON THE WORK VEHICLE.
5. THE WORK VEHICLE SHALL BE EQUIPPED WITH BEACONS, AND THE PROTECTION VEHICLES SHALL BE EQUIPPED WITH A TMA AND TWO HIGH - INTENSITY FLASHING LIGHTS MOUNTED ON THE REAR, ADJACENT TO THE SIGN. PROTECTION AND WORK VEHICLES SHOULD DISPLAY FLASHING OR ROTATING BEACONS BOTH FORWARD AND TO THE REAR.
6. VEHICLE - MOUNTED SIGNS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGN, AT A MINIMUM HEIGHT OF 4 FEET ABOVE THE PAVEMENT. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
7. ARROW DISPLAYS ARE OPTIONAL AND SHOULD BE TYPE B, 60 INCHES BY 30 INCHES.

NOTES:

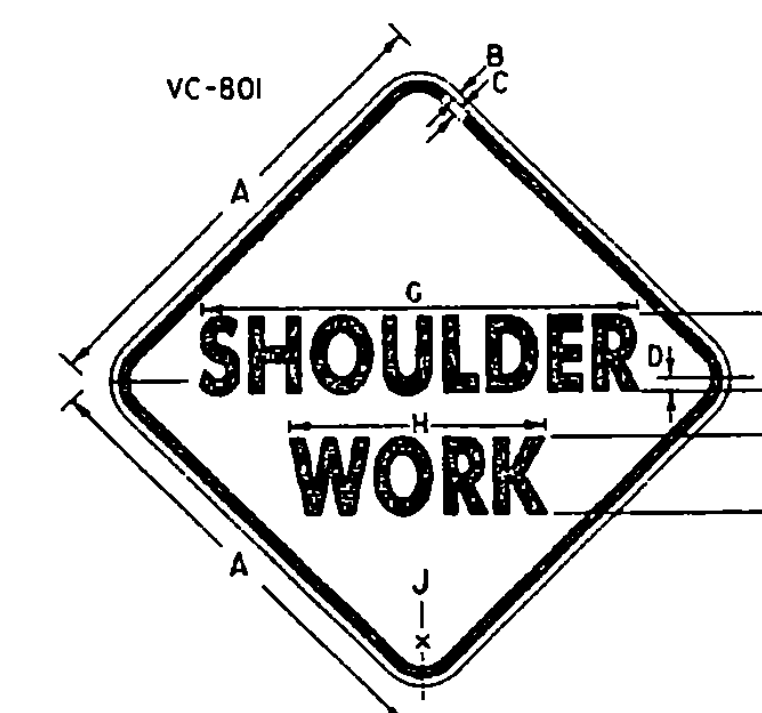
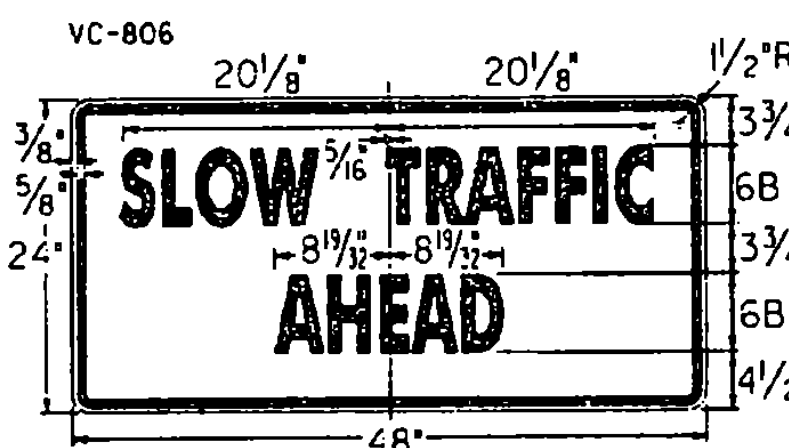
1. VEHICLES USED FOR THESE OPERATIONS SHOULD BE MADE HIGHLY VISIBLE WITH APPROPRIATE EQUIPMENT, SUCH AS FLASHING LIGHTS, ROTATING BEACONS, FLAGS, SIGN, OR ARROW DISPLAYS.
2. PROTECTION VEHICLE #1 SHOULD BE EQUIPPED WITH AN ARROW DISPLAY, AN APPROPRIATE LANE CLOSURE SIGN SHOULD BE PLACED ON PROTECTION VEHICLE #1 SO AS NOT TO OBSCURE THE ARROW DISPLAY.
3. PROTECTION VEHICLE #2 SHOULD BE EQUIPPED WITH AN ARROW DISPLAY AND TRUCK - MOUNTED ATTENUATOR.
4. PROTECTION VEHICLE #1 SHOULD TRAVEL AT A VARYING DISTANCE FROM THE WORK OPERATION SO AS TO PROVIDE ADEQUATE SIGHT DISTANCE FOR TRAFFIC APPROACHING FROM THE REAR.
5. WHEN ADEQUATE SHOULDER WIDTH IS NOT AVAILABLE, PROTECTION VEHICLE #1 SHOULD BE ELIMINATED.
6. ON HIGH - SPEED ROADWAYS, A THIRD PROTECTION VEHICLE SHOULD BE USED - VEHICLE #1 ON THE SHOULDER (IF POSSIBLE), VEHICLE #2 IN THE CLOSED LANE, AND VEHICLE #3 IN THE CLOSED LANE.
7. ARROW DISPLAYS SHALL BE AS A MINIMUM TYPE B, 60 INCHES BY 30 INCHES (FIGURE V1 - 9, SECTION 6F - 3).
8. WORK SHOULD NORMALLY BE DONE DURING OFF - PEAK HOURS.



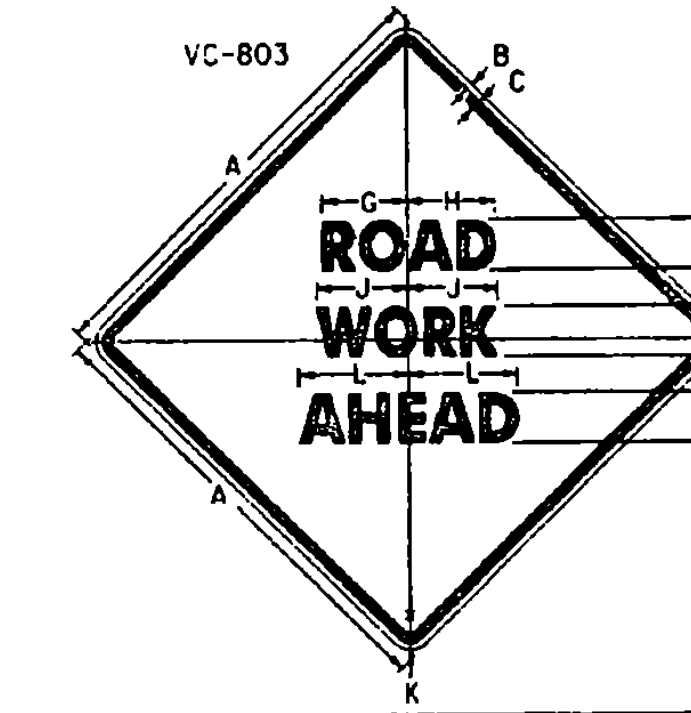
SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	M
MIN.	36	3/4	3/8	5C	2 1/4	1 1/4	13/16	12 3/8	7	7	2 1/4	8 3/4
STD.	48	3/4	1 1/4	7C	3 3/8	1 3/4	18 1/2	17 3/4	1/2	9 3/4	3	13 3/4



SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	
MIN.	36	3/4	3/8	5C	2 3/4	3/8	15 3/4	10 1/4	2 1/4	4 1/2	8 3/4	
STD.	48	3/4	1 1/4	6C	3 3/8	1/2	19	12 3/8	3	17 3/4	10 3/4	



SIGN	DIMENSIONS (INCHES)						
	A	B	C	D	E	F	J
2 LANE	36	3/4	3/8	1	5-D	3 1/2	17 3/8
4 LANE	48	3/4	1 1/4	1	7-C	4	20 1/4



SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	
MIN.	30	1/2	3/4	4D	2 1/2	2 3/8	6 3/4	7	7 3/8	1 1/8	8 3/4	
STD.	36	3/4	3/8	5D	3 1/2	3 1/4	8 3/8	8 3/8	9	2 1/4	10 3/8	
SPECIAL	48	3/4	1 1/4	7D	4 3/4	4 1/2	11 3/8	12 3/8	12 3/8	3	15 3/8	

NOTES:

1. OPTICALLY CENTER SYMBOLS WITHIN SECTIONS UNLESS OTHERWISE NOTED.
2. 'VC-9XX' IS THE SIGN CODE NUMBER.
3. MIRROR IMAGES ARE NOT SHOWN BUT CARRY THE SAME CODE NUMBER.
4. THESE SIGN ARE INTENDED FOR GROUND MOUNTING ONLY.
5. OTHER VARIATIONS OF THESE STANDARD DESIGNS ARE DEPICTED IN THE VT SIGN IDENTIFICATION MANUAL. WHEN THEY ARE USED THEY SHOULD BE DESIGNED USING THE DIMENSIONS AND DETAILS SHOWN HERE.

OTHER STDS. REQUIRED:

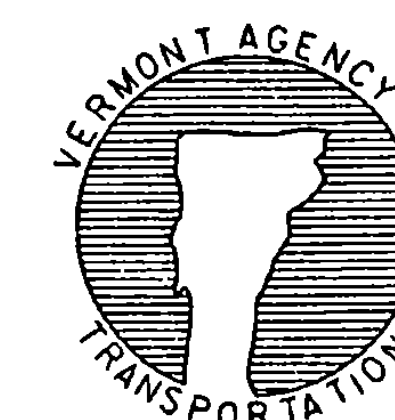
REVISIONS AND CORRECTIONS
 JAN. 26, 1972 - DATE OF ORIGINAL ISSUE
 FEB. 29, 1972 - REVISED PER DIRECTION OF THE FEDERAL HIGHWAY ADMINISTRATION
 MAY 14, 1974 - REFLECTIVE MATERIAL CHANGE
 JUN. 8, 1977 - REFLECTIVE MATERIAL NOTE CHANGE SIGNS REFERENCED TO NUMBERS IN M.U.T.C.D.
 AUG. 10, 1977 - PERSON WORKING SIGN CHANGED TO SYMBOL
 DEC. 9, 1981 - MINOR SIGN DIMENTION CHANGES.
 FEB. 3, 1986 - UPDATED TO 1986 SPECIFICATIONS
 AUG. 8, 1995 - UPDATED TO 1993 MUTCD - CHAPTER 6

APPROVED
Scott B. The Allen
 DIRECTOR OF ENGINEERING

David A. Ross
 TRAFFIC AND SAFETY ENGINEER

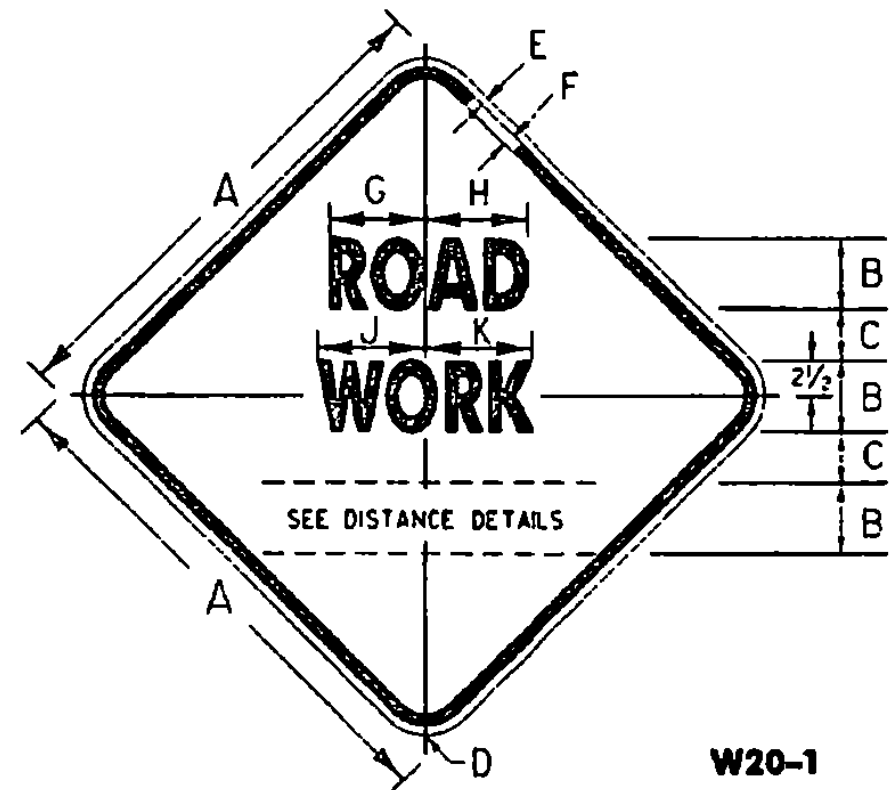
TRAFFIC CONTROL FOR TYPICAL MOVING MAINTENANCE OPERATIONS

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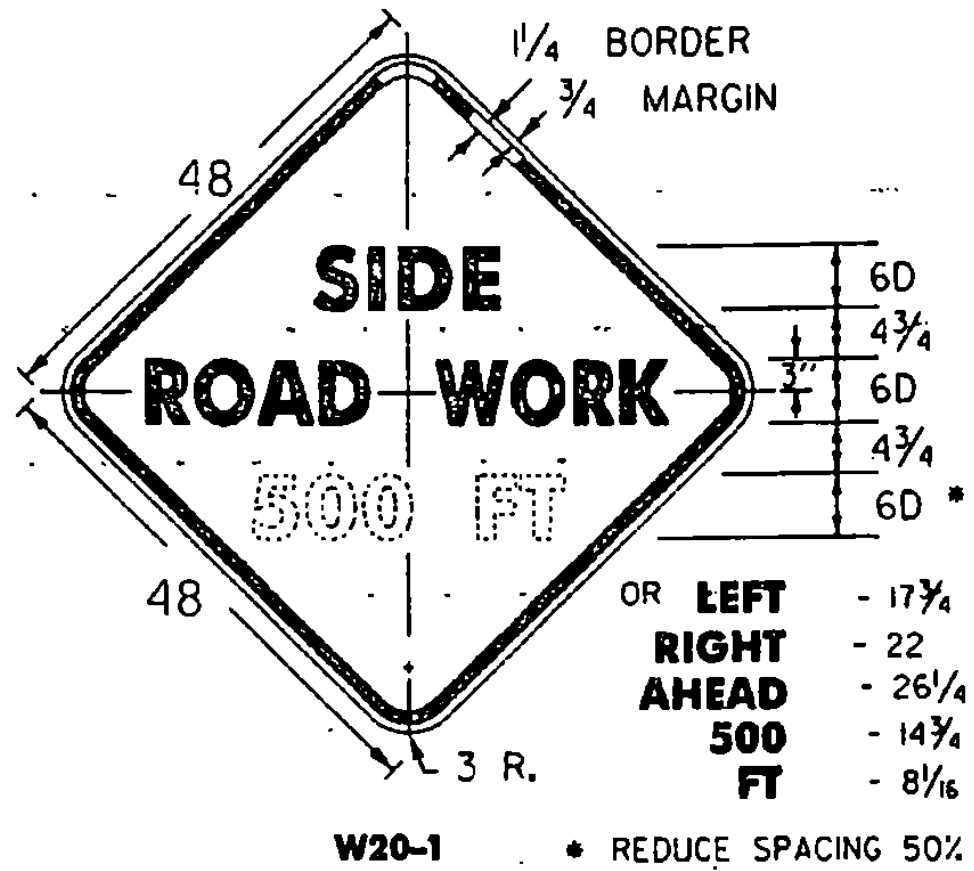
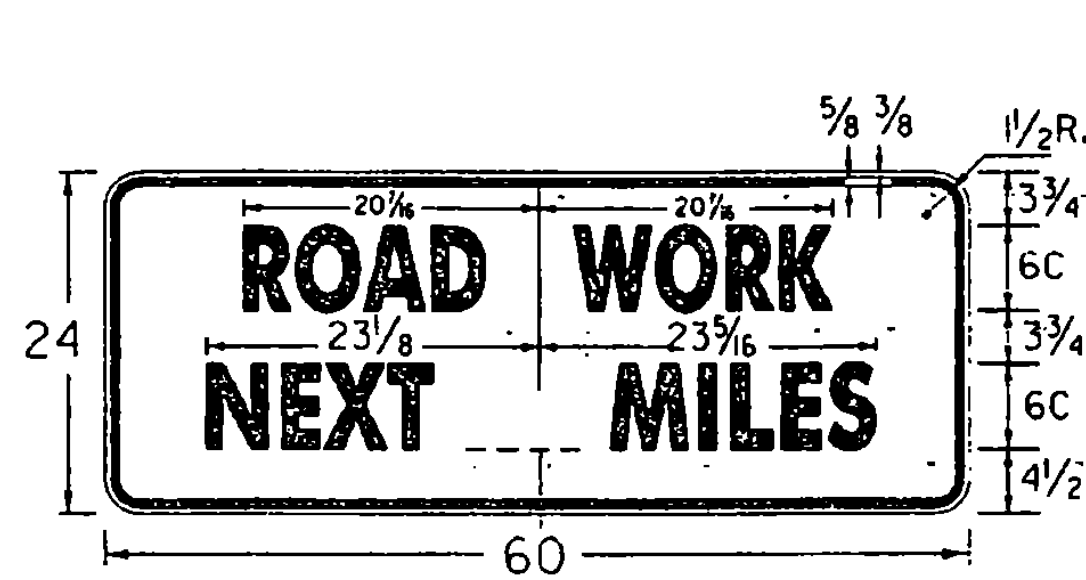
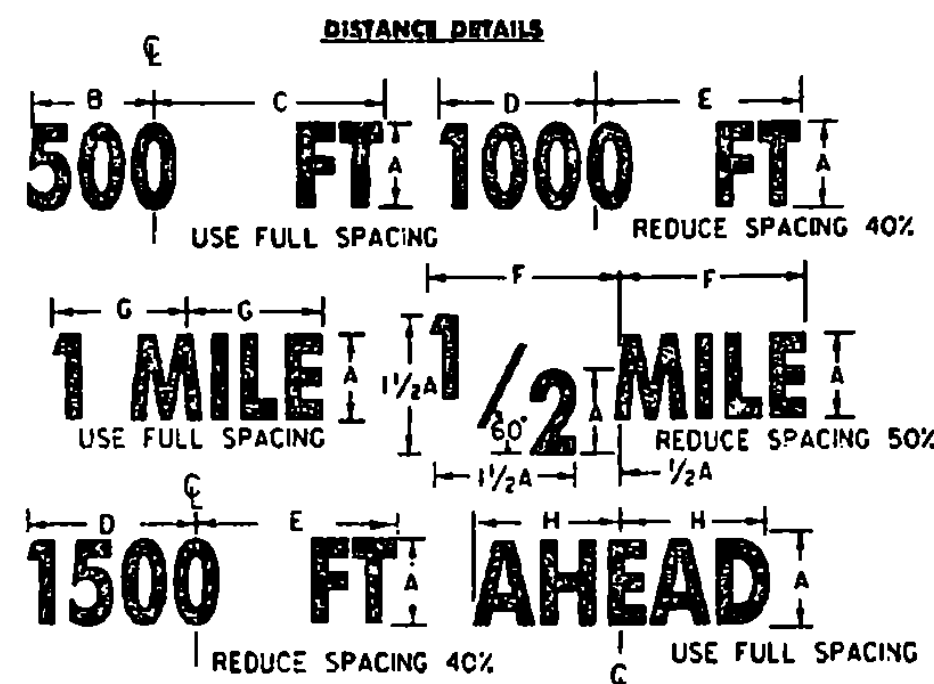


STANDARD E-10A

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



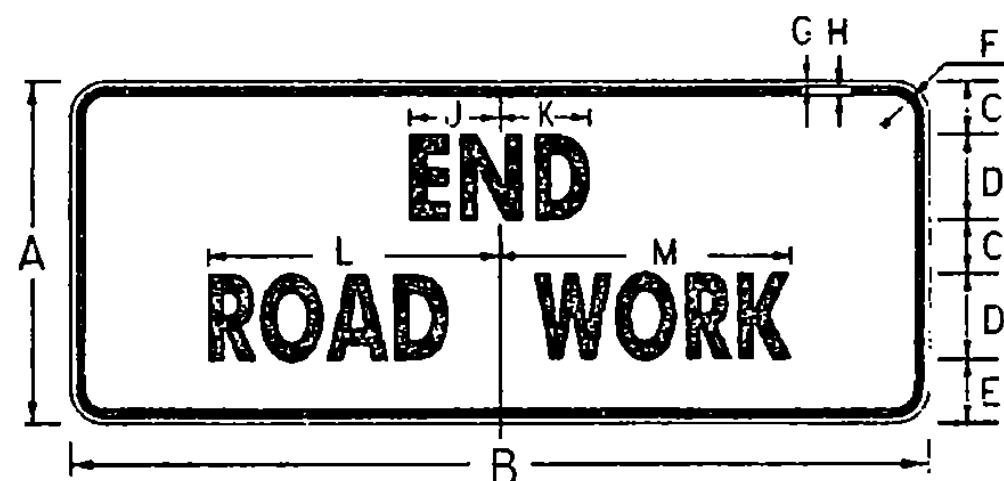
W20-1



THIS SIGN TO BE USED WHEN PROJECT LENGTH EXCEEDS 2 MILES OR AS REQUESTED BY THE RESIDENT ENGINEER. SHOW MILEAGE TO NEAREST 1/4 MILE USING FRACTIONS, NOT DECIMALS. HAND LETTERING OF MILEAGE WILL NOT BE ALLOWED. (ALL DIMENSIONS SHOWN IN INCHES)

DIMENSIONS (INCHES)		A	B	C	D	E	F	G	H	J	K
STD.		48	7C	4 3/4	3'' R.	7/4	1 1/4	9 1/2	9 3/4	10 1/2	10 3/8
URBAN		36	5C	3 3/8	2 1/4 R.	3/4	7/8	6 1/2	7 1/8	7 1/2	7 3/8

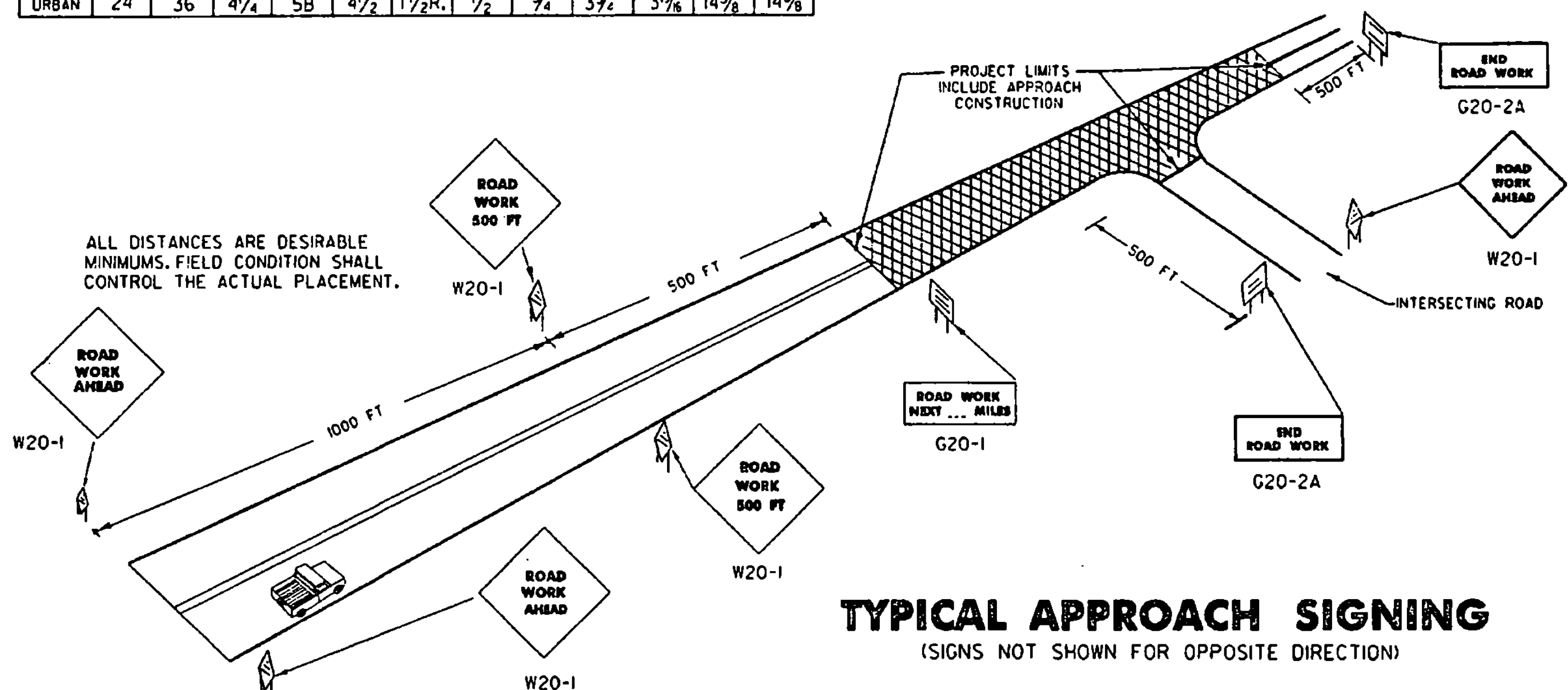
DIMENSIONS (INCHES)		A	B	C	D	E	F	G	H
5D		10 3/8	10 3/8	8 3/8	11 1/4	11 1/4	9 1/2	10 3/8	
6C		10 3/8	10 3/8	11 1/4	12	12 1/2	9 1/8	10 1/2	
7C		12	12 3/8	13 1/8	14	14 3/8	10 3/8	12 1/4	
8D		16 1/4	17 1/4	17	18	18	14 3/8	17 1/4	



G20-2A

DIMENSIONS (INCHES)		A	B	C	D	E	F	G	H	J	K	L	M
STD.		24	60	3 3/4	6C	4 1/2	1 1/2 R.	3/8	5/8	6 1/4	6 3/8	20 1/8	20 1/8
URBAN		24	36	4 1/4	5B	4 1/2	1 1/2 R.	1/2	3/4	3 3/4	3 3/8	14 3/8	14 3/8

(ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED)



TYPICAL APPROACH SIGNING (SIGNS NOT SHOWN FOR OPPOSITE DIRECTION)

NOTES

THE SIGNS SHOWN ON THIS SHEET ARE INTENDED FOR USE IN PROVIDING ADVANCE WARNING AND INFORMATION ON CONSTRUCTION PROJECTS OVER WHICH TRAFFIC WILL BE MAINTAINED. WHEN ADDITIONAL APPROACH SIGNS OR OTHER TYPES OF ADVANCE SIGNING OR CONTROL ARE NECESSARY, THE PLANS AND/OR THE SPECIFICATIONS FOR THAT PROJECT WILL GIVE THE DETAILS OF THE SIGNS AND DEVICES REQUIRED. FOR ON-PROJECT CONSTRUCTION SIGNS, REFER TO APPROPRIATE STANDARD SHEETS.

APPLICATION OF STANDARDS
 SINCE IT IS NOT POSSIBLE TO PRESCRIBE DETAILED STANDARDS OF APPLICATION FOR ALL OF THE SITUATIONS THAT MAY CONCEIVABLY ARISE ON A CONSTRUCTION PROJECT, REFERENCE SHALL BE MADE TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" FOR THE PRINCIPLES, PROCEDURES, AND STANDARDS THAT WILL BE REQUIRED IN CONNECTION WITH ADVANCED WARNING AND ON-PROJECT CONSTRUCTION SIGNS AND BARRICADES. THE SIGNS SHOWN IN E-101 AND E-102 REPRESENT A SAMPLE OF THOSE MORE COMMONLY USED.

LOCATION
 THE SIGNS SHALL BE LOCATED AS DETAILED ON THIS SHEET OR AS OTHERWISE SHOWN ON THE PLANS. THEY SHALL APPEAR AT EACH END OF THE HIGHWAY UNDER CONSTRUCTION AND ON ALL INTERSECTING PUBLIC HIGHWAYS. THE EXACT PLACEMENT OF ANY SIGN WILL DEPEND UPON THE ALIGNMENT INTENDED TO INDICATE THE SEQUENCE TO BE FOLLOWED, AND THE APPROXIMATE SPACING TO BE OBSERVED. THE ENGINEER SHALL DETERMINE THE EXACT LOCATIONS.

DESIGN
 THE DESIGN OF THE SIGNS SHALL CONFORM WITH THE DETAILS SHOWN ON THIS SHEET AND WITH THE STANDARDS PRESCRIBED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

MATERIALS
 THE SIGN BASE MATERIAL USED FOR THE SIGNS ON THIS SHEET MAY BE ANY OF THE FOLLOWING, WITH MINIMUM THICKNESS AS NOTED.
 FLAT SHEET ALUMINUM 0.125 INCHES
 HIGH DENSITY OVERLAYED PLYWOOD 1/2, 5/8, OR 3/4 INCHES
 GALVANIZED SHEET STEEL 12 GAGE

REFLECTORIZATION
 ALL REFLECTORIZED MATERIAL SHALL CONSIST OF TYPE 11B OR TYPE 111 SHEETING.

COLORS
 THE COLORS SHALL CONFORM WITH THE STANDARD COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION. FEDERAL HIGHWAY ADMINISTRATIVE COLORS SHOWN ON THIS SHEET CONSIST OF BLACK TEXT AND BORDER ON A REFLECTORIZED ORANGE BACKGROUND.

INSTALLATION
 THE 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, SIGNS MAY BE REMOVED UPON COMPLETION OF THE WORK AT THE DISCRETION OF THE ENGINEER. EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER ON POSTS SET SECURELY IN THE GROUND. THE BOTTOM OF A SIGN SHALL BE AT LEAST 7 FEET ABOVE THE EDGE OF PAVEMENT, AND THE NEAREST EDGE OF A SIGN SHALL BE AT LEAST 6 FEET OUTSIDE THE SHOULDER POINT, 4 FEET OUTSIDE GUARD RAIL, OR 2 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 7 FEET ABOVE THE SIDEWALK.

MAINTENANCE
 SIGNS SHALL BE MAINTAINED IN A CLEAN AND LEGIBLE CONDITION SATISFACTORY TO THE ENGINEER. THEY SHALL BE COMPLETELY VISIBLE TO APPROACHING TRAFFIC AT ALL TIMES. 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.

NOTES CONT.

GENERAL
 THE COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING ALL CONSTRUCTION APPROACH SIGNS WILL BE CONSIDERED SUBSIDIARY WORK PERTAINING TO THE PROJECT AS A WHOLE AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR VARIOUS ITEMS INVOLVED IN THE CONTRACT. DURING ALL PHASES OF CONSTRUCTION THE REQUIREMENTS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE MET. WHEN THE PROJECT IS CLOSED DOWN FOR TEMPORARY PERIODS THE SIGNS SHALL BE COVERED IN A WORKMANLIKE MANNER.

SIGN COVERS
 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, MBOARD 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.

CONTRACTORS SHALL COORDINATE THEIR SIGNING ACTIVITIES WITH OTHER CONTRACTORS WITHIN THE PROJECT LIMITS, AS DIRECTED BY THE REGIONAL CONSTRUCTION ENGINEER.

SIGN POSTS

WHERE CONSTRUCTION SIGN INSTALLATIONS ARE NOT PROTECTED BY GUARD RAIL OR OTHER APPROVED TRAFFIC BARRIERS, THE POSTS ON WHICH THE SIGNS ARE MOUNTED SHALL BE YIELDING METAL POSTS AS DESIGNATED IN THE E-SERIES OF STANDARD DRAWINGS OR YIELDING WOODEN POSTS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

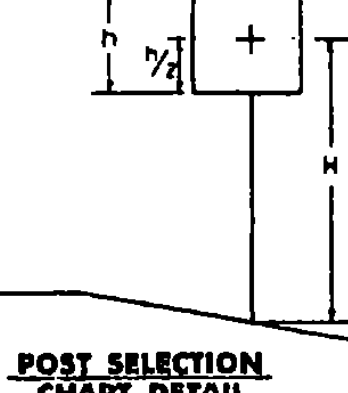
WOODEN POSTS ARE ACCEPTABLE FOR USE WITH CONSTRUCTION SIGNS. THESE POSTS SHALL HAVE A UNIFORM CROSS-SECTION AND SHALL BE MADE FROM GRADE 2, AIR-DRYED SOUTHERN YELLOW PINE OR ANOTHER EQUIVALENT SOFTWOOD. AN ACCEPTABLE EQUIVALENT SOFTWOOD SHALL HAVE AN EXTREME FIBER IN BENDING "FB" DESIGN VALUE NOT TO EXCEED 1400 DBH AND HORIZONTAL SHEAR "FS" DESIGN VALUE NOT TO EXCEED 90 PSI SPECIFICATION, "DESIGN VALUES FOR WOOD CONSTRUCTION" AND RELATED SUPPLEMENT, DATED 1986.

AS ESTABLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION IN THEIR NATIONAL DESIGN THE FOLLOWING ARE CONSIDERED TO BE ACCEPTABLE WOODEN POSTS:

- 4' x 4' (ACTUAL DIMENSIONS ARE 3.5' x 3.5')
 - A) ACCEPTABLE FOR SINGLE OR DUAL POSTS INSTALLATION WITH NO MODIFICATIONS.
 - B) ACCEPTABLE FOR THREE POSTS (OR MORE) INSTALLATION ONLY WHEN THERE ARE NO MORE THAN TWO POSTS IN A 7 FOOT PATH.
- 4' x 6' (ACTUAL DIMENSIONS ARE 3.5' x 5.5')
 - A) ACCEPTABLE FOR SINGLE POST INSTALLATIONS ONLY WHEN MODIFIED BY DRILLING TWO 1 1/2" DIAMETER HOLES, ONE AT 4" AND THE OTHER 18" ABOVE THE GROUND LINE AND PERPENDICULAR TO THE ROADWAY CENTERLINE.
 - B) ACCEPTABLE FOR MULTIPLE POSTS (TWO OR MORE) INSTALLATIONS ONLY WHEN MODIFIED AS ABOVE AND THE MINIMUM SPACING BETWEEN POSTS IS 7 FEET.
- 6' x 6' (ACTUAL DIMENSIONS ARE 5.5' x 5.5')
 - A) ACCEPTABLE FOR SINGLE POST INSTALLATIONS ONLY WHEN MODIFIED BY DRILLING TWO 2" DIAMETER HOLES, ONE AT 4" AND THE OTHER AT 18" ABOVE THE GROUND LINE AND PERPENDICULAR TO ROADWAY CENTERLINE.
 - B) ACCEPTABLE FOR MULTIPLE POST INSTALLATION ONLY WHEN MODIFIED AS ABOVE AND THE MINIMUM SPACING BETWEEN POSTS IS 7 FEET.
- 6' x 8' (ACTUAL DIMENSIONS ARE 5.5' x 7.5')
 - A) ACCEPTABLE FOR SINGLE POST INSTALLATIONS ONLY WHEN MODIFIED BY DRILLING TWO 3" DIAMETER HOLES, ONE AT 4" AND THE OTHER AT 18" ABOVE THE GROUND LINE AND PERPENDICULAR TO THE ROADWAY CENTERLINE.
 - B) ACCEPTABLE FOR MULTIPLE POST INSTALLATIONS ONLY WHEN MODIFIED AS ABOVE AND THE MINIMUM SPACING BETWEEN POSTS IS 7 FEET.

ADDITIONAL DESIGN CRITERIA
 THE LONGER DIMENSION OF THE POST(S), SUCH AS THE 6' DIMENSION OF THE 4' x 6' POST, SHALL BE PLACED PARALLEL TO THE ROADWAY CENTERLINE. ALL WOODEN POSTS SHALL HAVE AN EMBEDMENT DEPTH OF 4 FEET. NO CROSS-BRACING OR BACK-BRACING TO KEEP THE POSTS PLUMB WILL BE ALLOWED. CONCRETE FOUNDATIONS COLLARS OR SOIL BEARING PLATES ARE NOT PERMITTED. CONSTRUCTION SIGNS SHALL BE PLACED ON TWO OR MORE POSTS WHEN ANY OF THE FOLLOWING CONDITIONS GOVERN:
 A) THE SIGN WIDTH (HORIZONTAL DIMENSIONS FOR DIAMOND SHAPED SIGNS) EXCEEDS 3 1/2 FEET.
 B) THE EXPOSED SIGN AREA OF ANY SINGLE SIGN OR ASSEMBLY EXCEEDS 12 1/2 SQ. FEET.
 C) THE SV OF A SINGLE POST IS EXCEEDED. (SEE THE POST SELECTION CHART BELOW.)

SIGN AREA (FT ²) X HEIGHT (FT) < Sv (SELECTION VALUE)	Sv	DESIGN CRITERIA:
4' x 4'	64	WIND SPEED = 60 MPH (10-YEAR MEAN OCCURENCE INTERVAL)
4' x 6'	147	WIND PRESSURE = 13 psf
6' x 6'	216	ALLOWABLE BENDING STRESS
6' x 8'	389	

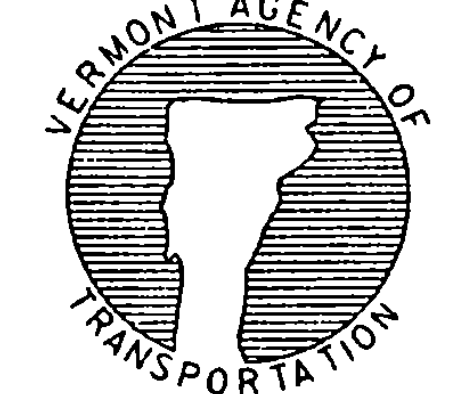


OTHER STDS. REQUIRED:

REVISIONS AND CORRECTIONS
 MAY 26, 1989 - DATE OF ORIGINAL ISSUE
 OCT 21, 1992 - REVISED WOOD POST REQUIREMENTS, ADDED SIGN DETAILS, & REVISED TITLE BLOCK
 AUG 08, 1995 - MINOR NOTE REVISIONS

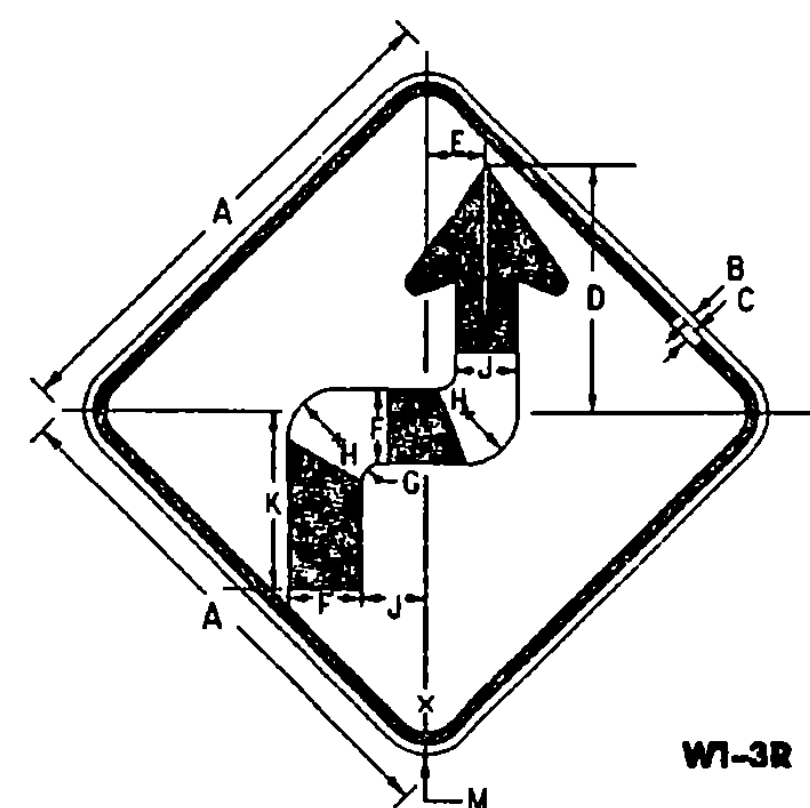
APPROVED
Sandra M. McArthur
 DIRECTOR OF ENGINEERING
David A. Ross
 TRAFFIC AND SAFETY ENGINEER

CONSTRUCTION APPROACH SIGNS



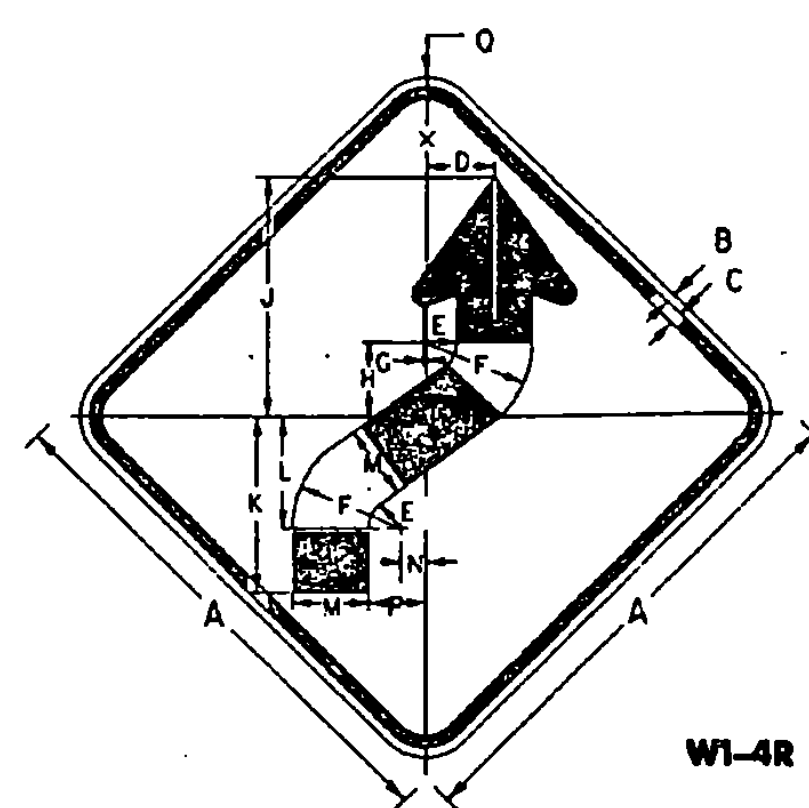
STANDARD E-100

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



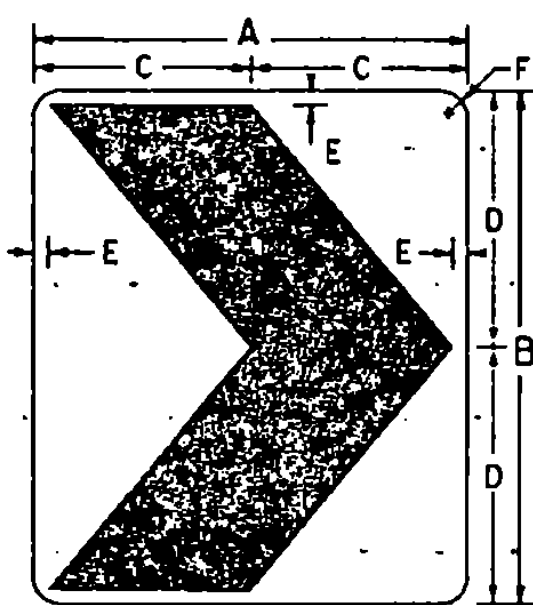
W1-3R

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	M
STD. & MIN.	36	5/8	7/8	17/16	47/16	5/4	1 1/4	3 3/8	4 1/2	12 5/8	1 7/8	2 1/4
SPECIAL	48	3/4	1 1/4	23/16	5 5/8	7	1 5/8	4 7/8	6	16 5/8	2 3/8	3



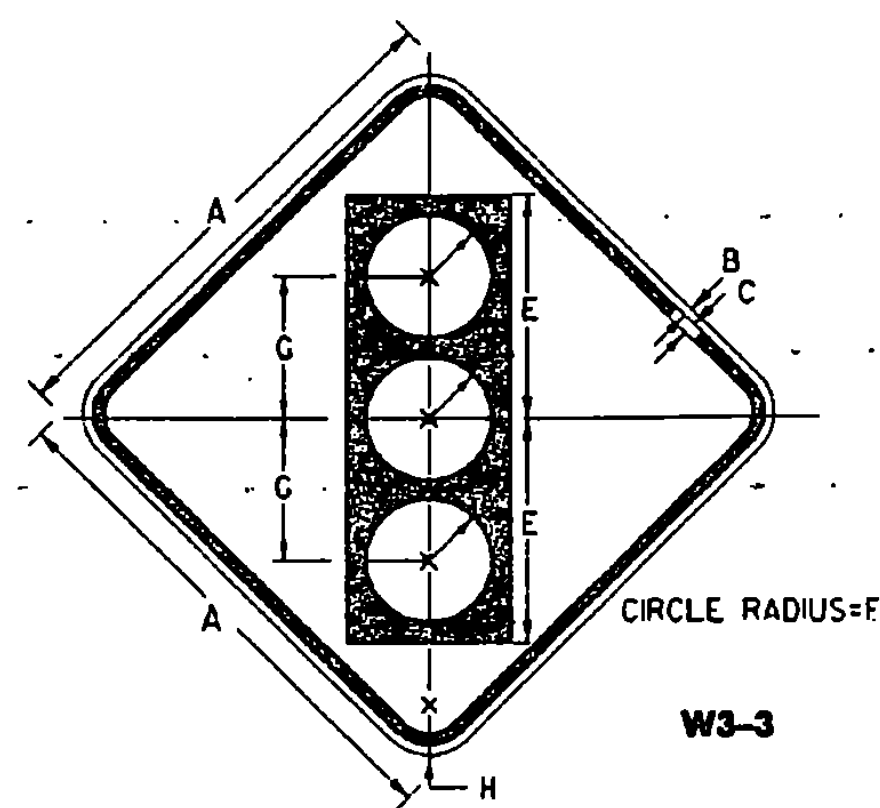
W1-4R

SIGN	DIMENSIONS (INCHES)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
STD. & MIN.	36	5/8	7/8	4 7/8	2 1/4	7 1/2	5/8	5 1/4	16 7/8	12 3/8	7 7/8	5 1/4	1 1/4	3 3/8	2 1/4
SPECIAL	48	3/4	1 1/4	6 3/8	3	10	3/8	7	22 1/2	16 1/2	10 1/2	7	2 1/4	5 1/4	3



W1-8

SIGN	DIMENSIONS (INCHES)					
	A	B	C	D	E	F
STD.	18	24	9	12	1/2	1 1/2
SPECIAL	24	30	12	15	1/2	1 1/2
EXPWY.	30	36	15	18	1	1 1/2
FRWY.	36	48	18	24	1 1/2	2 1/4

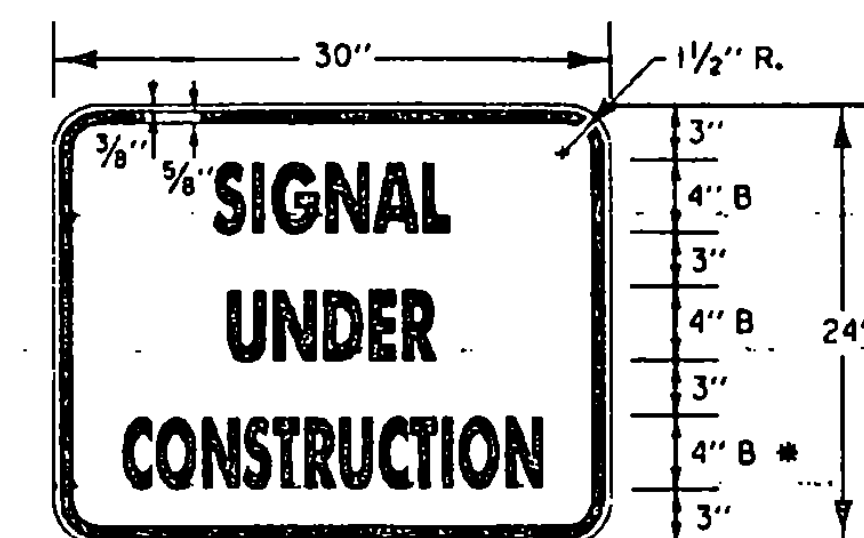


W3-3

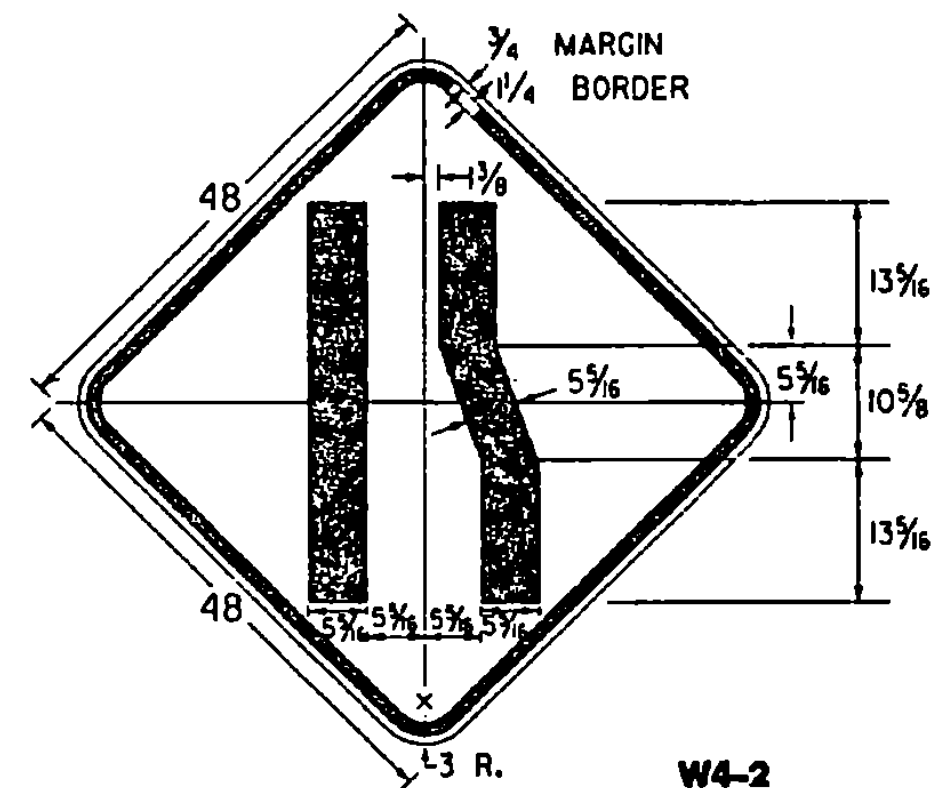
SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
STD. & MIN.	36	5/8	7/8	5 3/4	15 3/4	4 1/4	10	2 1/4
SPECIAL	48	3/4	1 1/4	7 1/2	20	5	12 1/2	3

COLORS

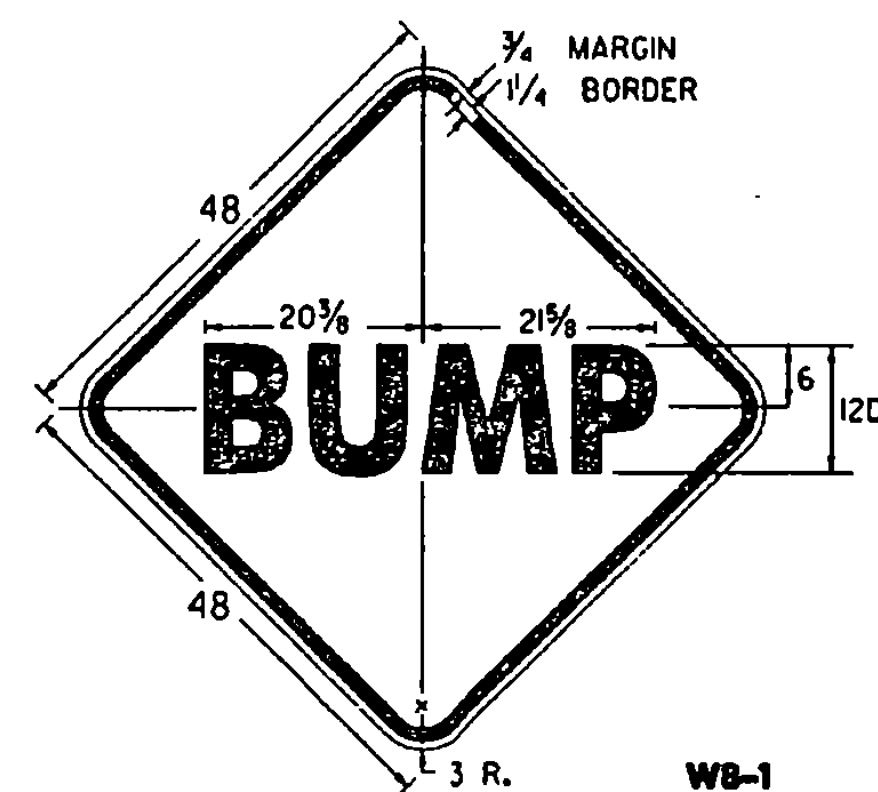
SYMBOL & LEGEND - BLACK (NON-REFL)
BACKGROUND - ORANGE (REFL)
TOP CIRCLE - RED (REFL)
MIDDLE CIRCLE - YELLOW (REFL)
BOTTOM CIRCLE - GREEN (REFL)



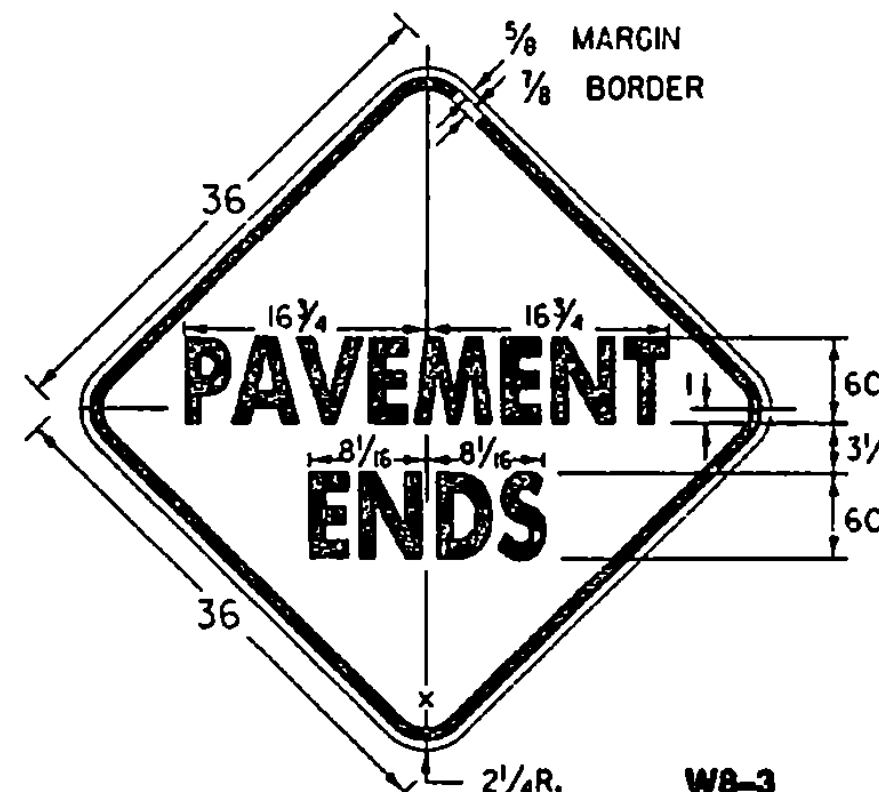
* REDUCE SPACING 50%



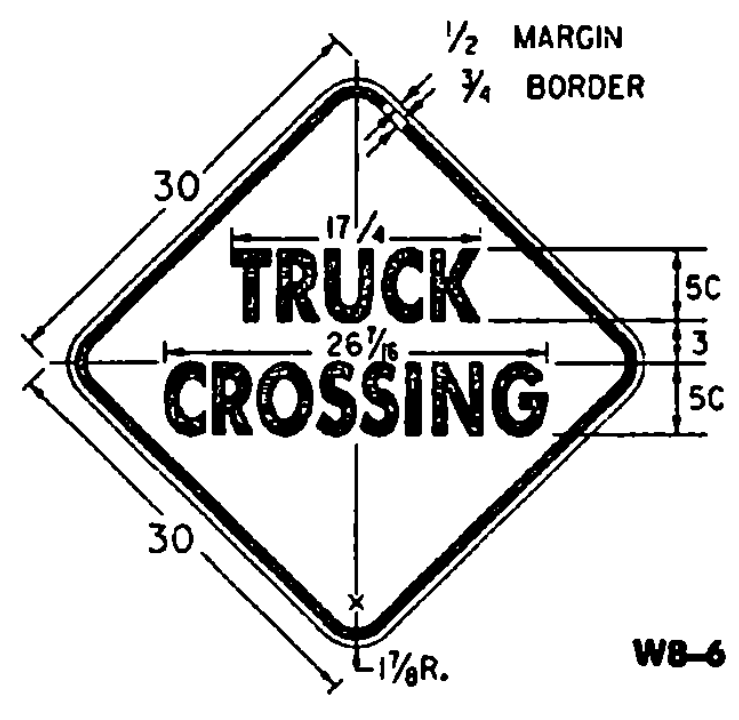
W4-2



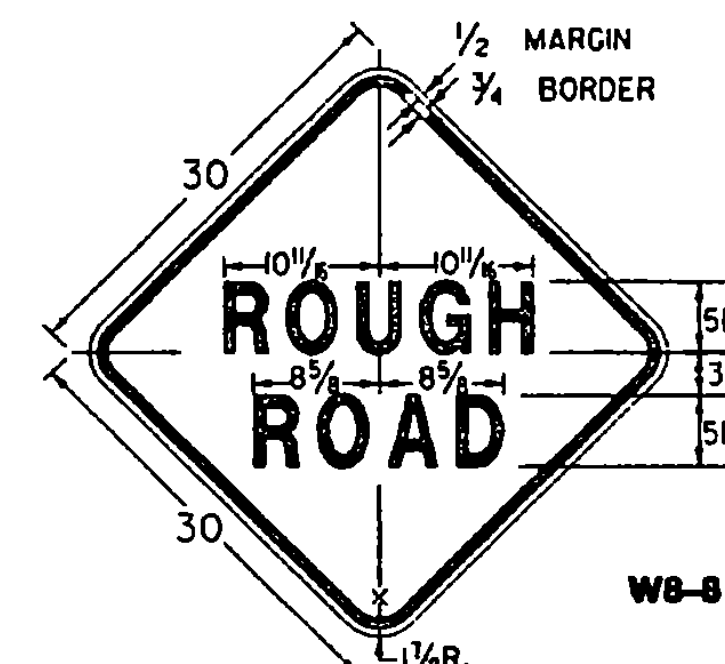
WB-1



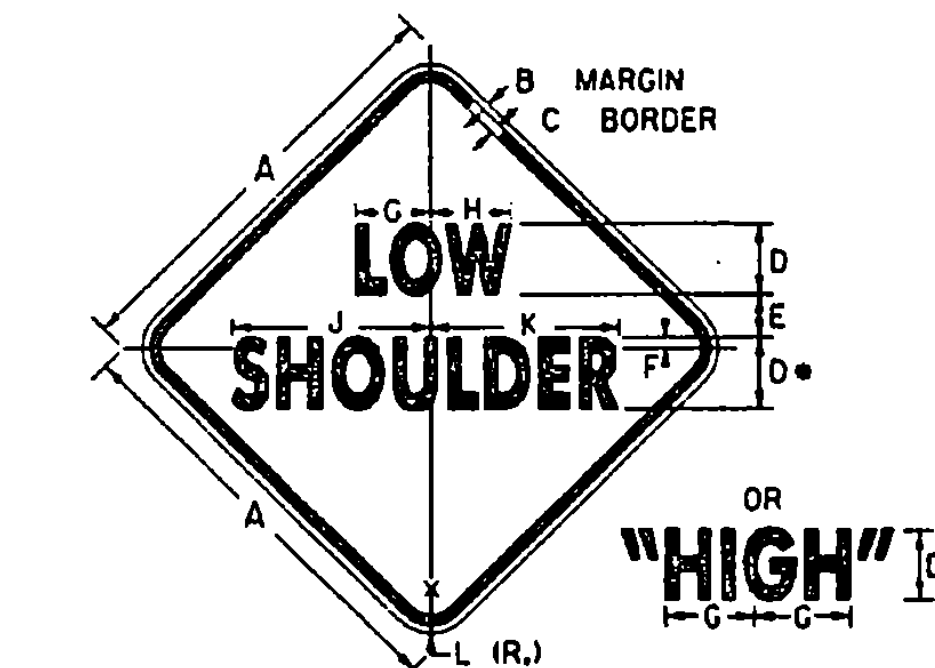
WB-3



WB-6



WB-8



WB-9

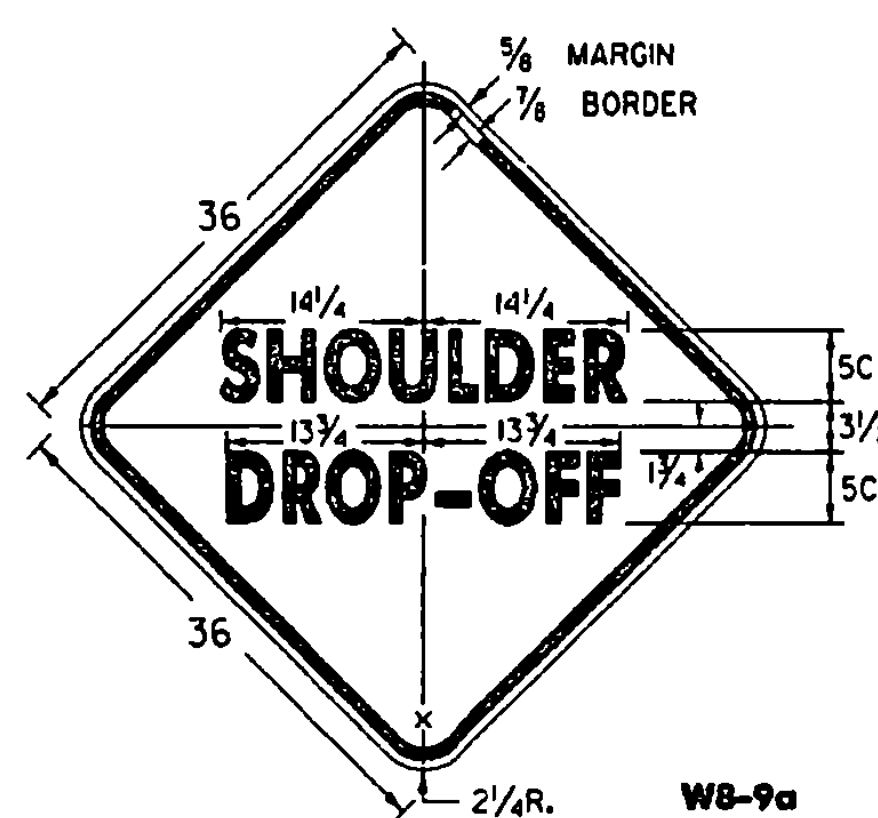
* REDUCE SPACING 25%

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
STD.	30	1 1/2	5C	3	3 1/2	5 1/2	5 1/2	13 3/8	13 3/8	1 1/2	
FRWY.	48	3/4	1 1/4	8C	5	11 1/2	8 1/4	9	2 1/4	20 1/4	3

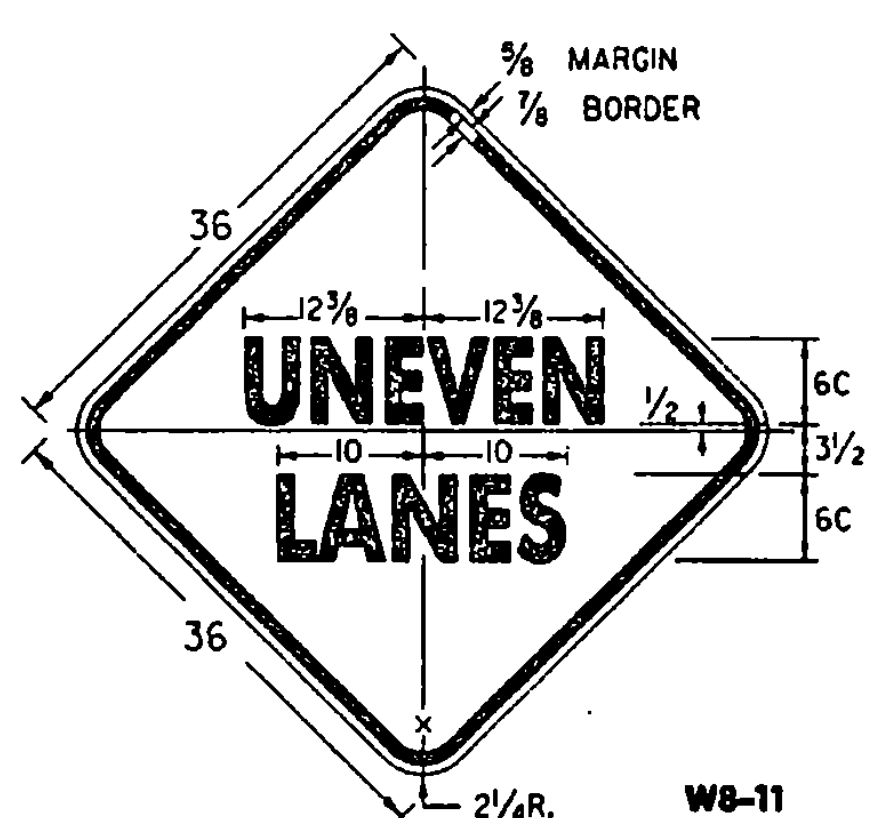
NOTES

SEE STANDARD SHEET E-100 FOR NOTES AND TEXT DETAILS
COLORS FOR SIGNS SHOWN ON THIS SHEET SHALL BE BLACK TEXT, BORDER AND SYMBOLS ON A REFLECTORIZED TYPE II B OR TYPE III ORANGE BACKGROUND, UNLESS OTHERWISE NOTED.

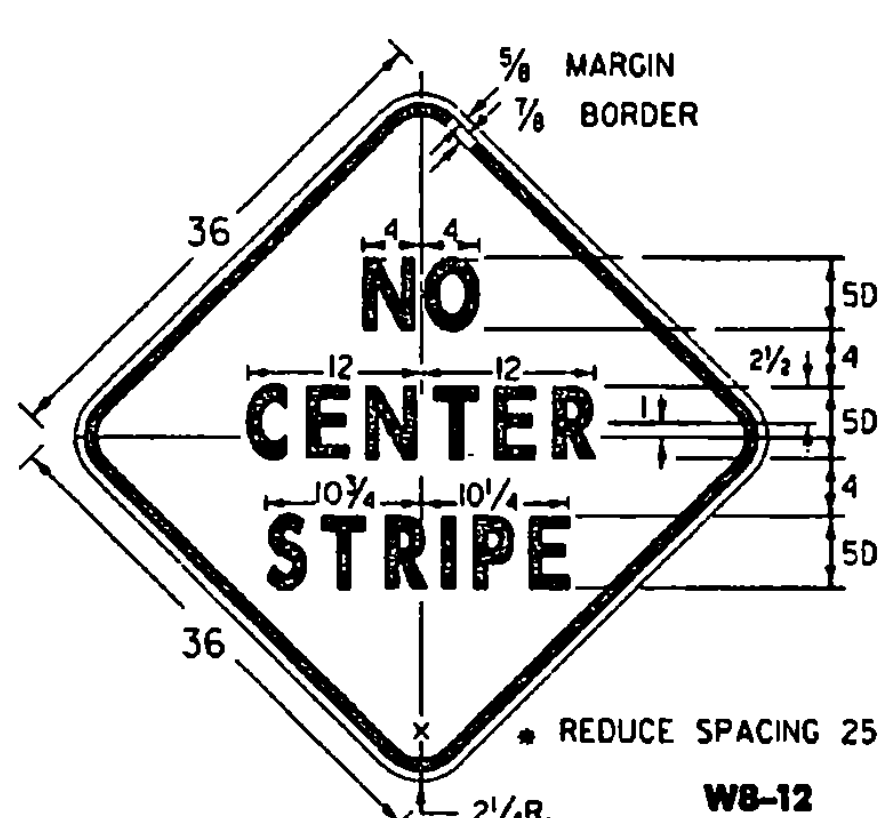
SIGNS USED ONLY FOR DAYTIME MAINTENANCE OPERATIONS DO NOT NEED TO BE REFLECTORIZED, HOWEVER, THESE SIGNS SHALL BE LABELED "DAYTIME USE ONLY" ON THE BACK OF THE SIGN PANEL WITH 3" SERIES C LETTERS.



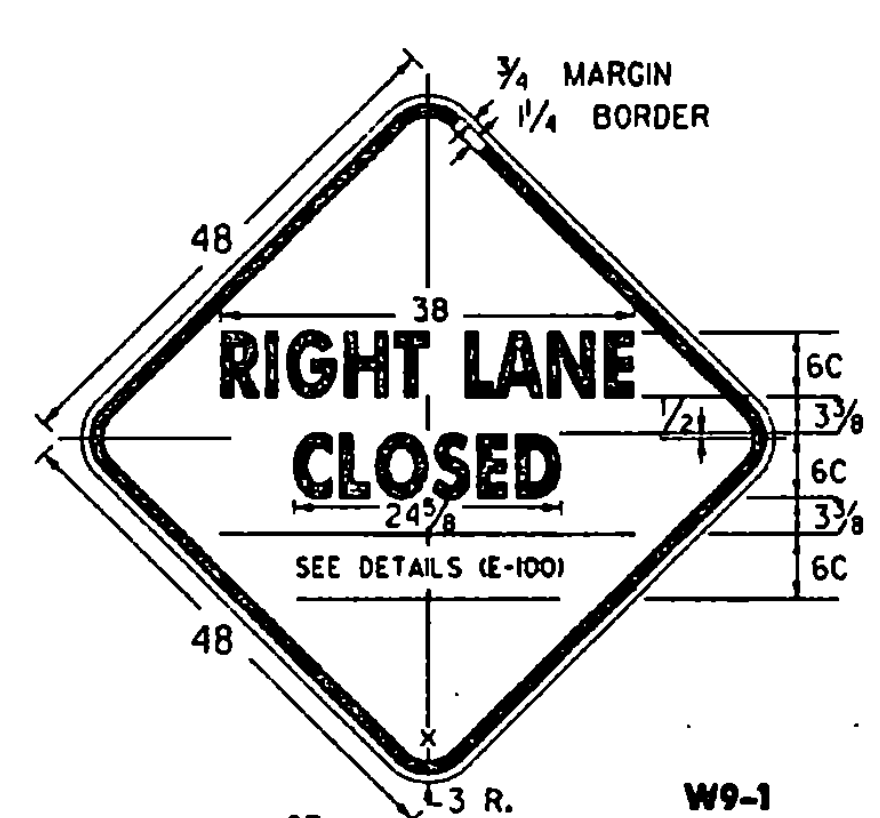
WB-9a



WB-11



WB-12



W9-1

(ALL DIMENSIONS SHOWN IN INCHES)

OR LEFT LANE

OTHER STDS. E-100 REQUIRED:

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
OCT. 21, 1992 - ADDED ADDITIONAL SIGN DIMENSIONS, REVISED CHEVRON BACKGROUND TO ORANGE, & REVISED TITLE BLOCK
AUG. 08, 1995 - ADDED AND DELETED VARIOUS SIGN DETAILS

APPROVED

Stephen J. McCall
DIRECTOR OF ENGINEERING

Don O. Ross
TRAFFIC AND SAFETY ENGINEER

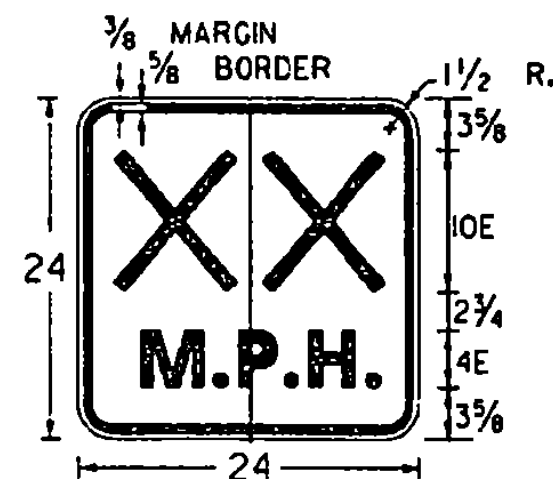
CONSTRUCTION SIGN DETAILS



STANDARD E-101

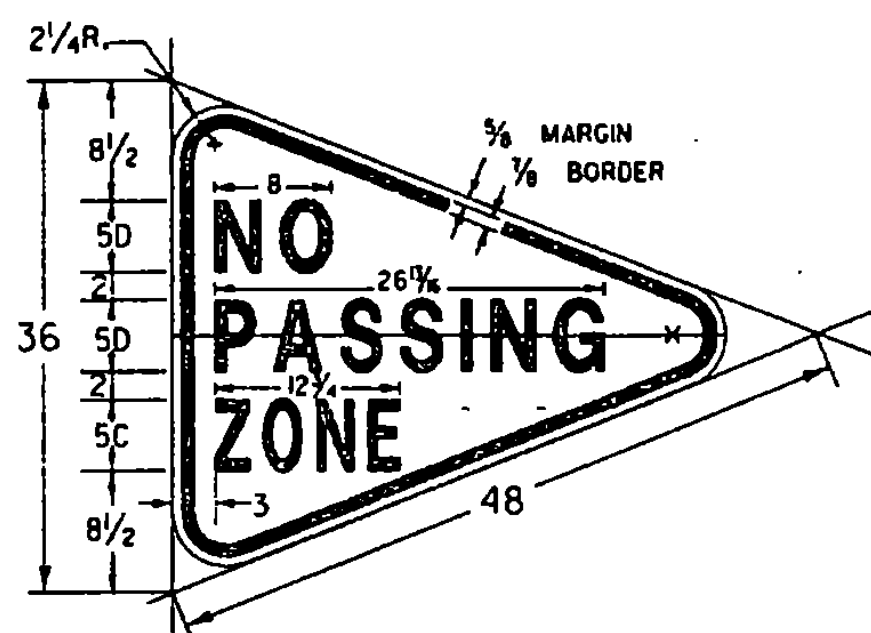
APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FHWA FINAL APPROVAL PENDING.

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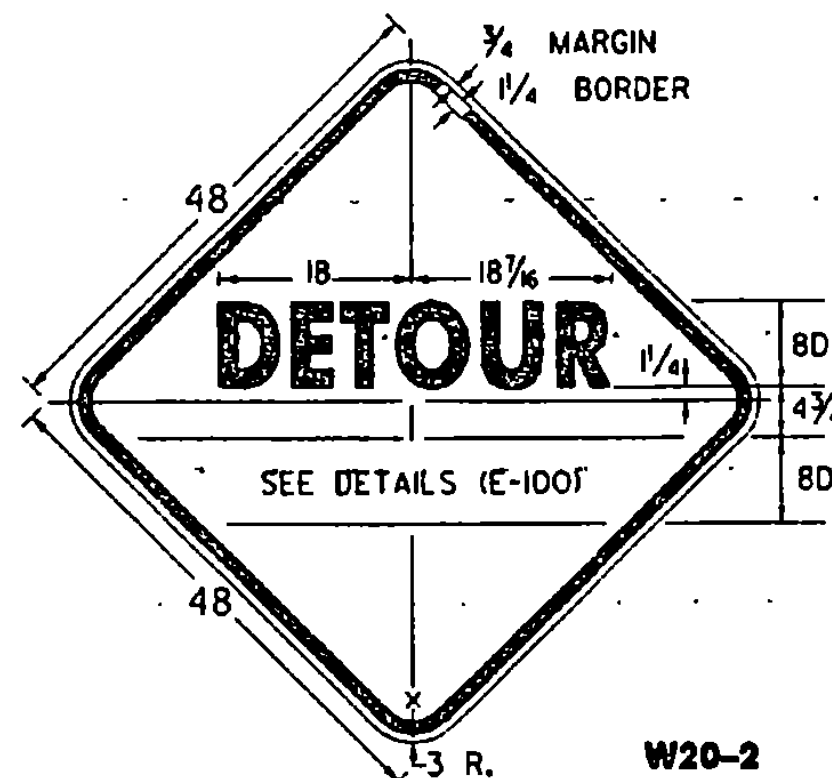


"XX" DENOTES ADVISORY SPEED AS SHOWN ON THE PLANS

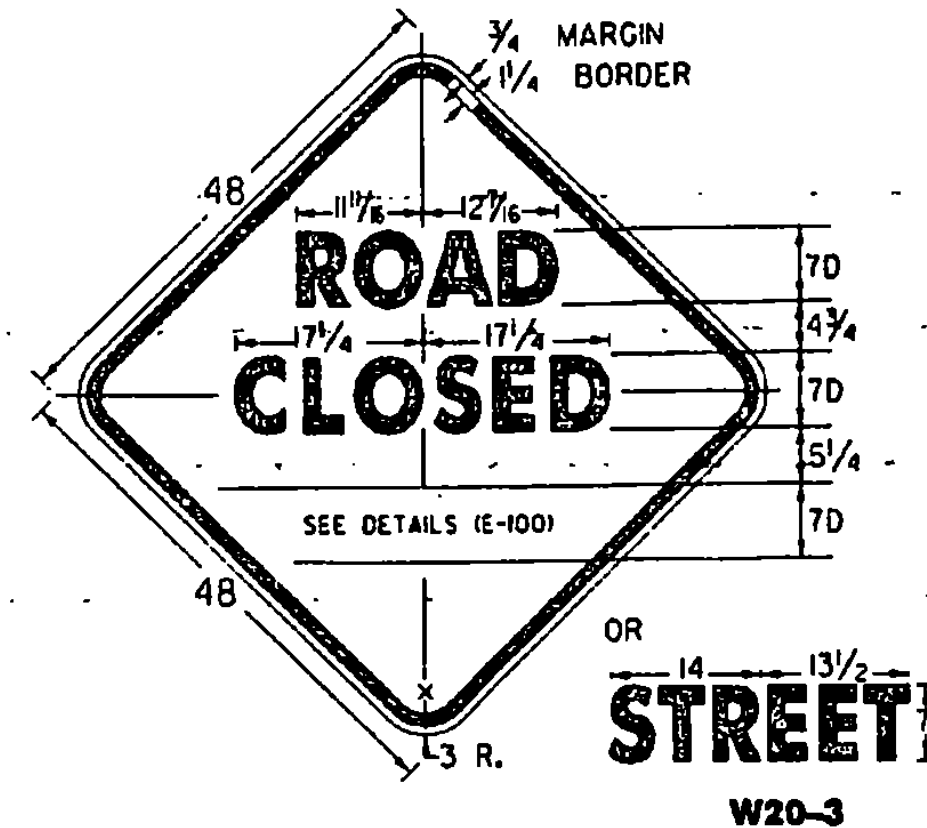
W13-1



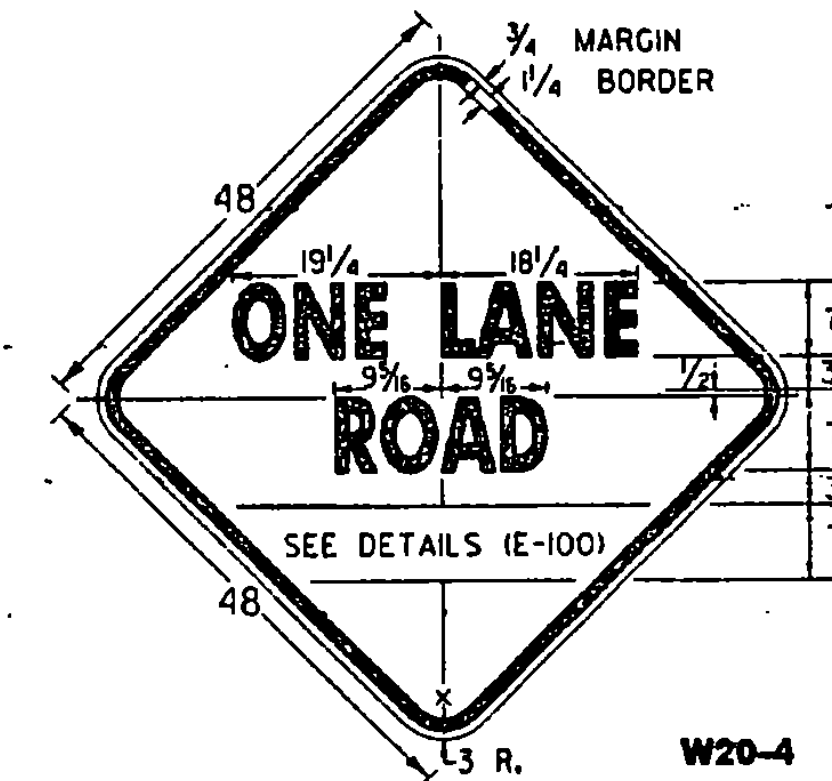
W14-3



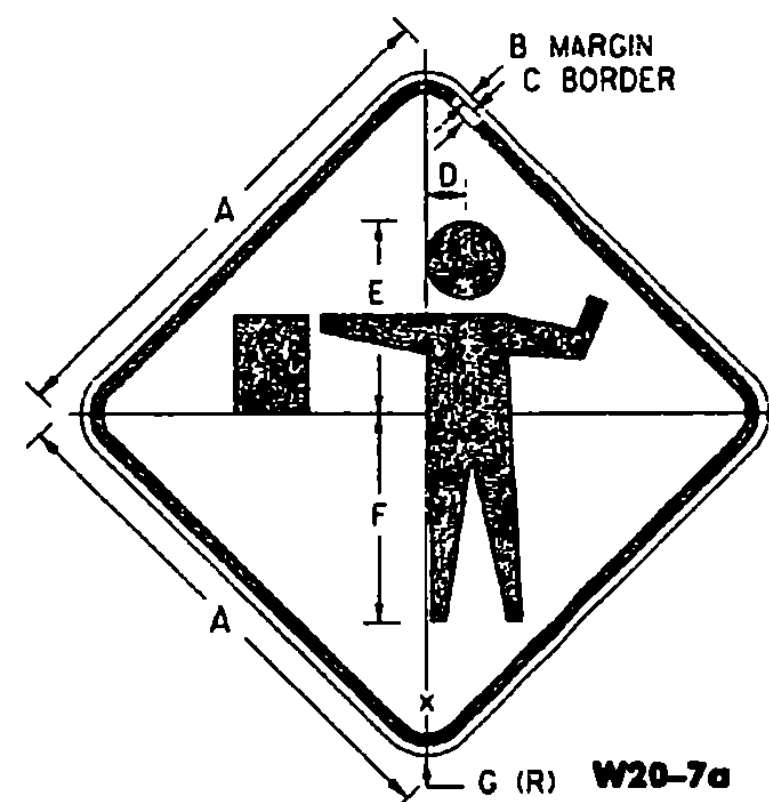
W20-2



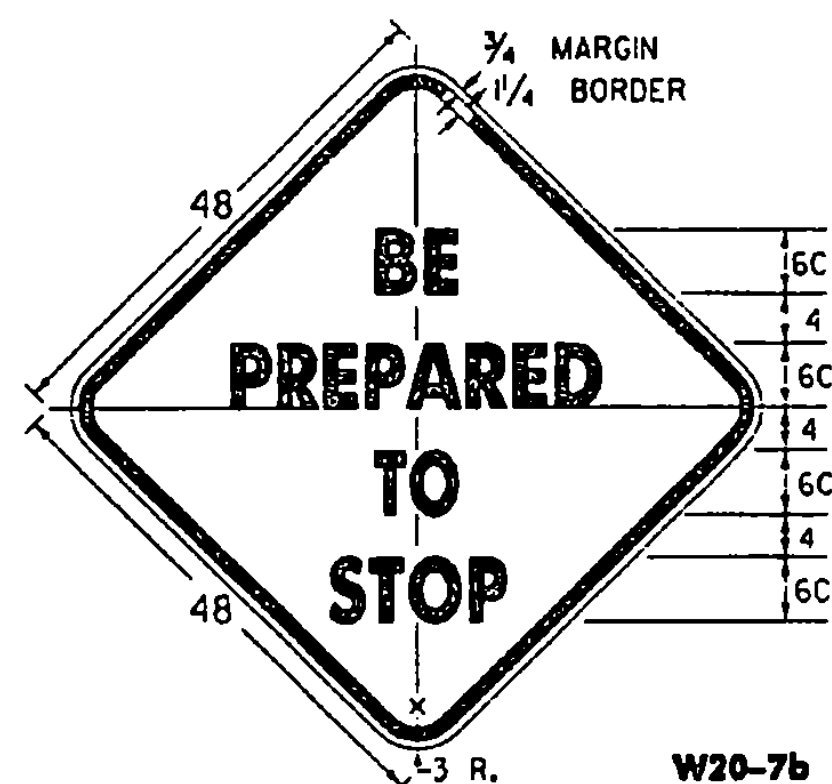
W20-3



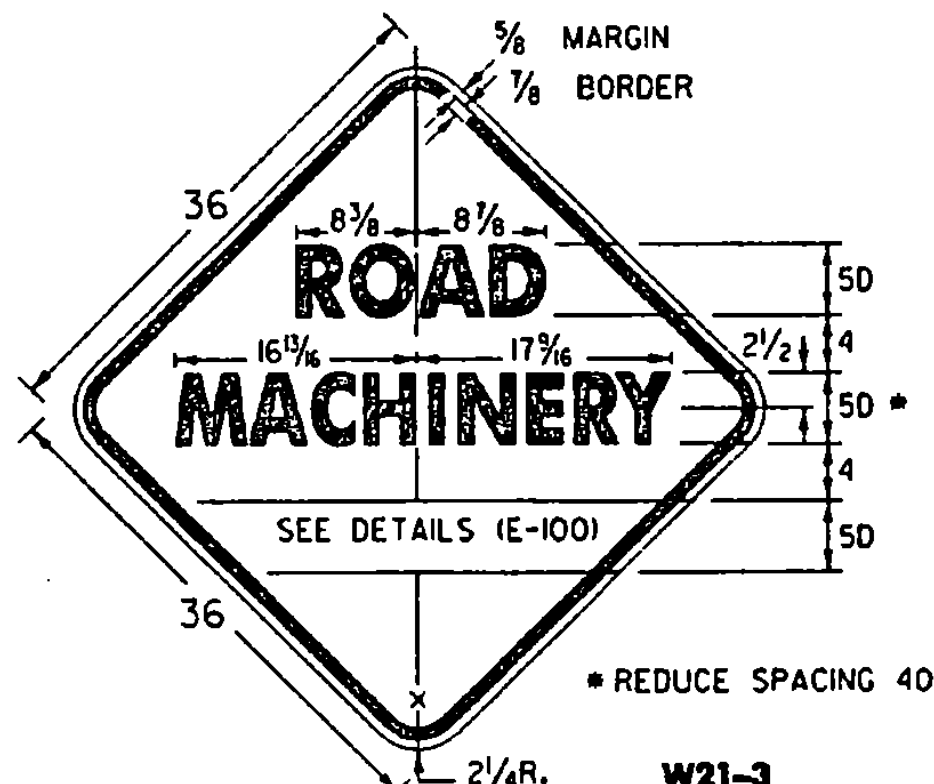
W20-4



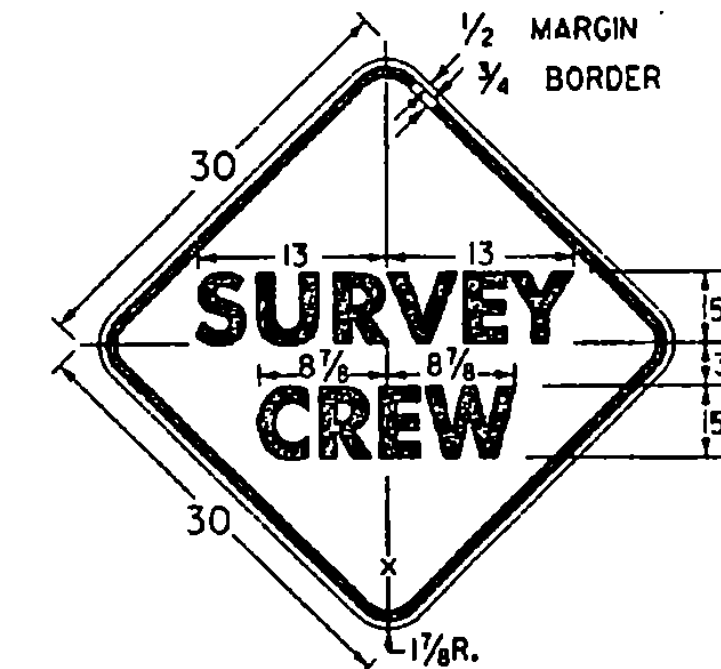
W20-7a



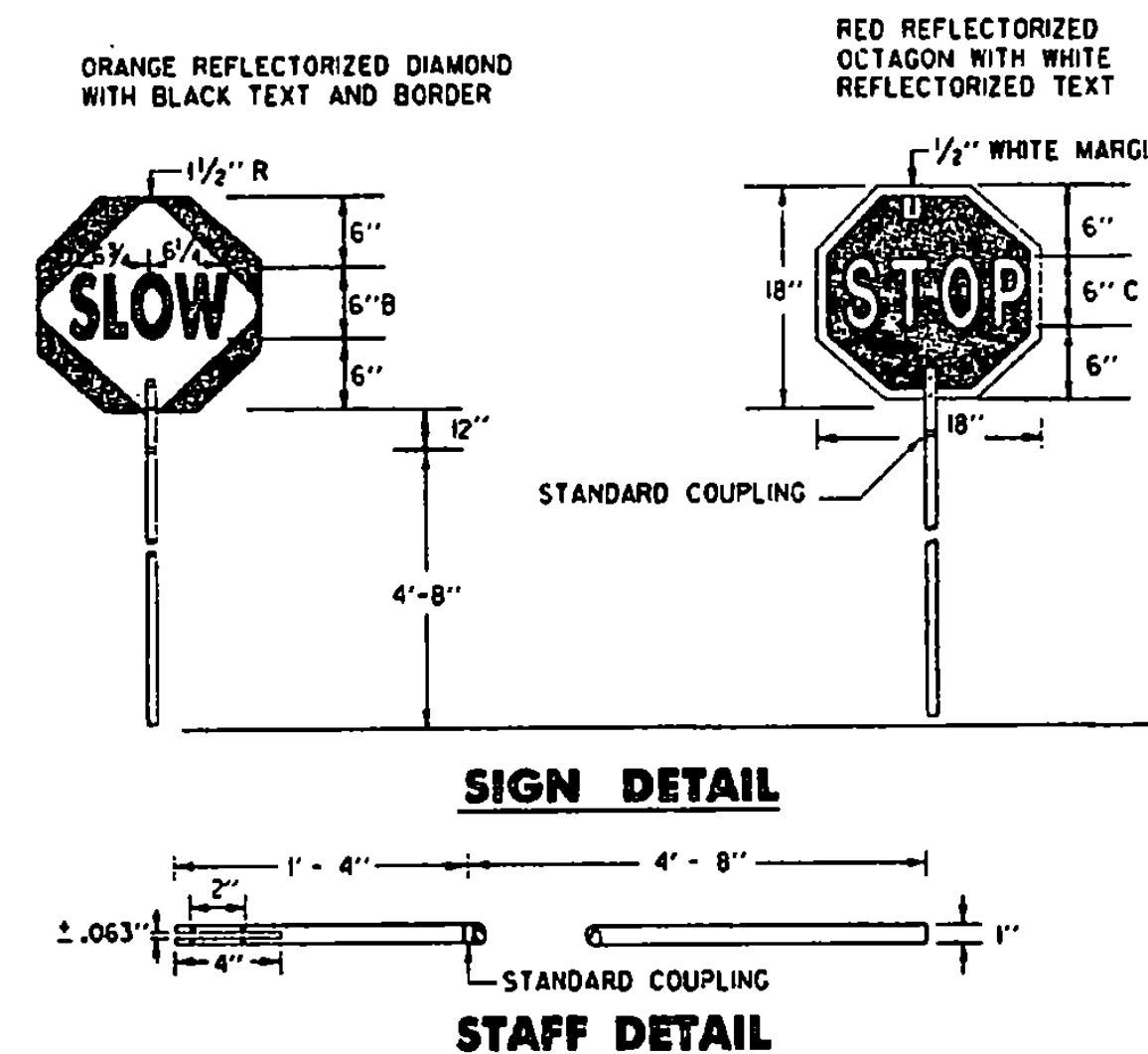
W20-7b



W21-3



W21-6



SIGN DETAIL

STAFF DETAIL

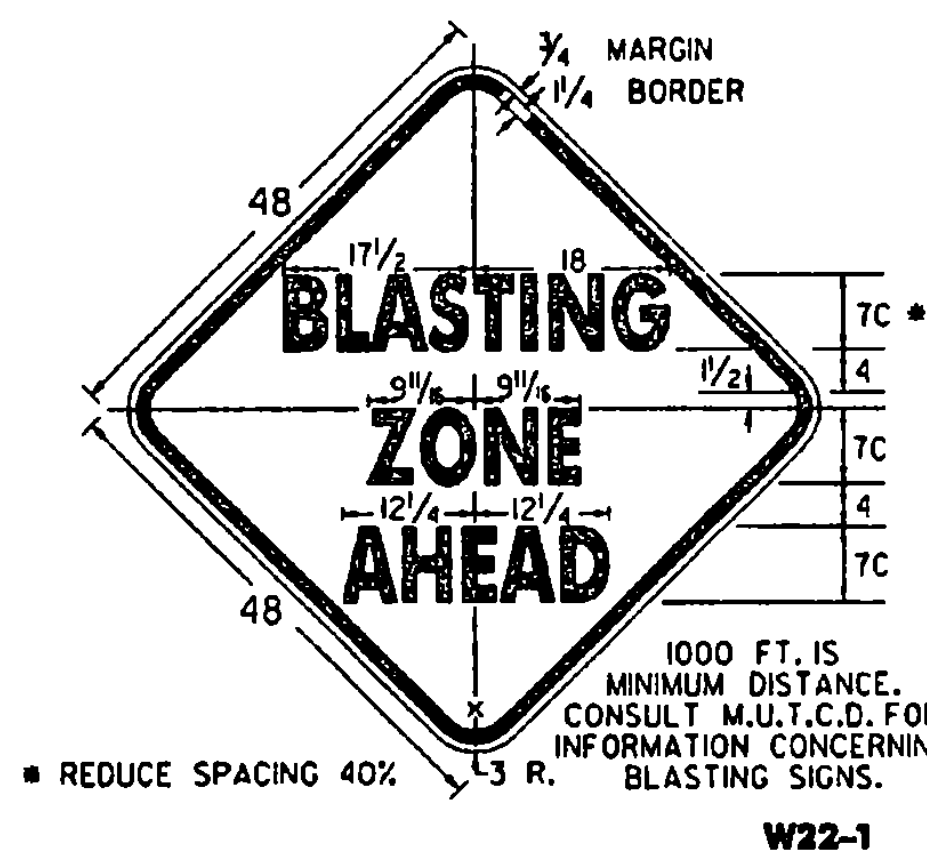
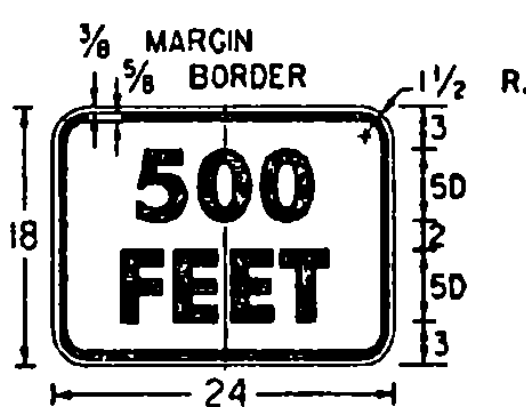
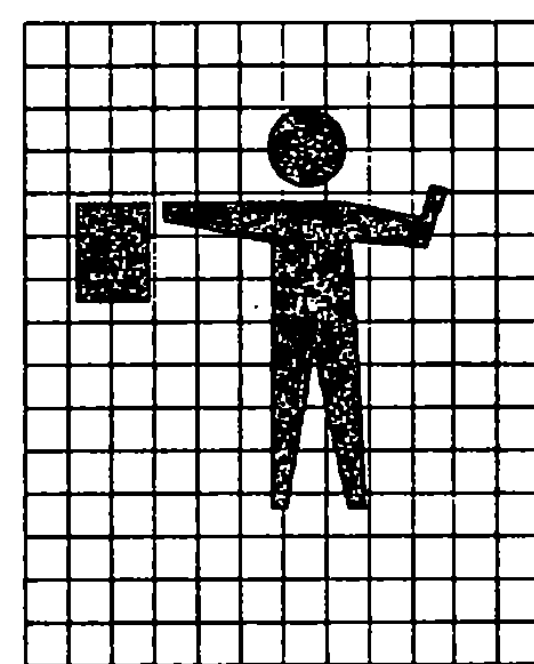
MATERIALS
THE SIGN MATERIALS SHALL BE 0.063" ALUMINUM WITH COLORS AS INDICATED ON DETAILS.
THE STAFF SHALL BE 3/4" TO 1/2" DIAMETER RIGID ALUMINUM CONDUIT/TUBING WITH A WALL THICKNESS OF 0.125" OR 1" TO 1/2" DIAMETER RIGID PVC CONDUIT/TUBING WITH 0.125" WALL THICKNESS.

MOUNTING
THE STAFF SHALL BE MOUNTED WITH EITHER TWO 1/2" DIAMETER ALUMINUM BOLTS OR TWO 1/4" DIAMETER ALUMINUM RIVETS.

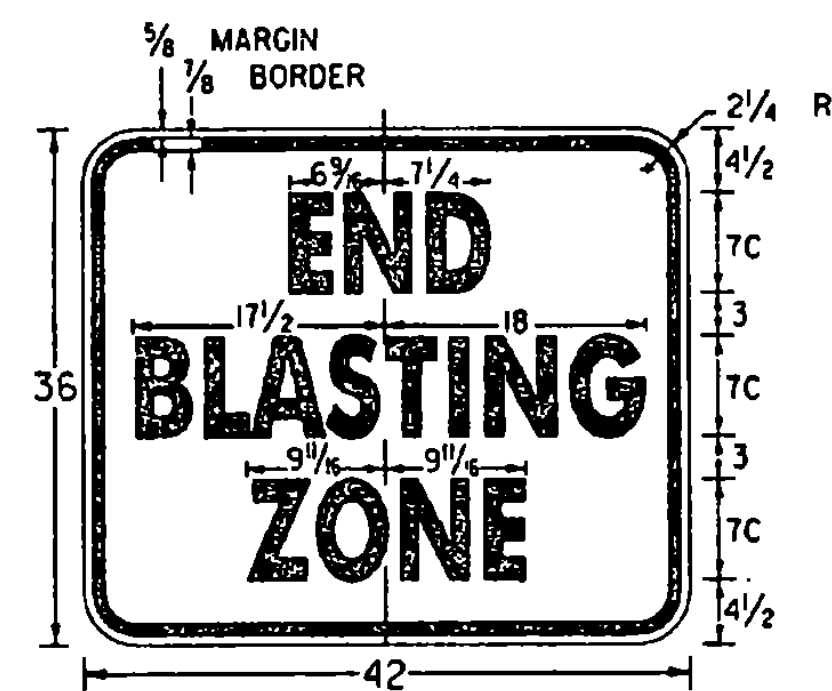
SIGN PADDLE FOR FLAGPERSON

NOTES

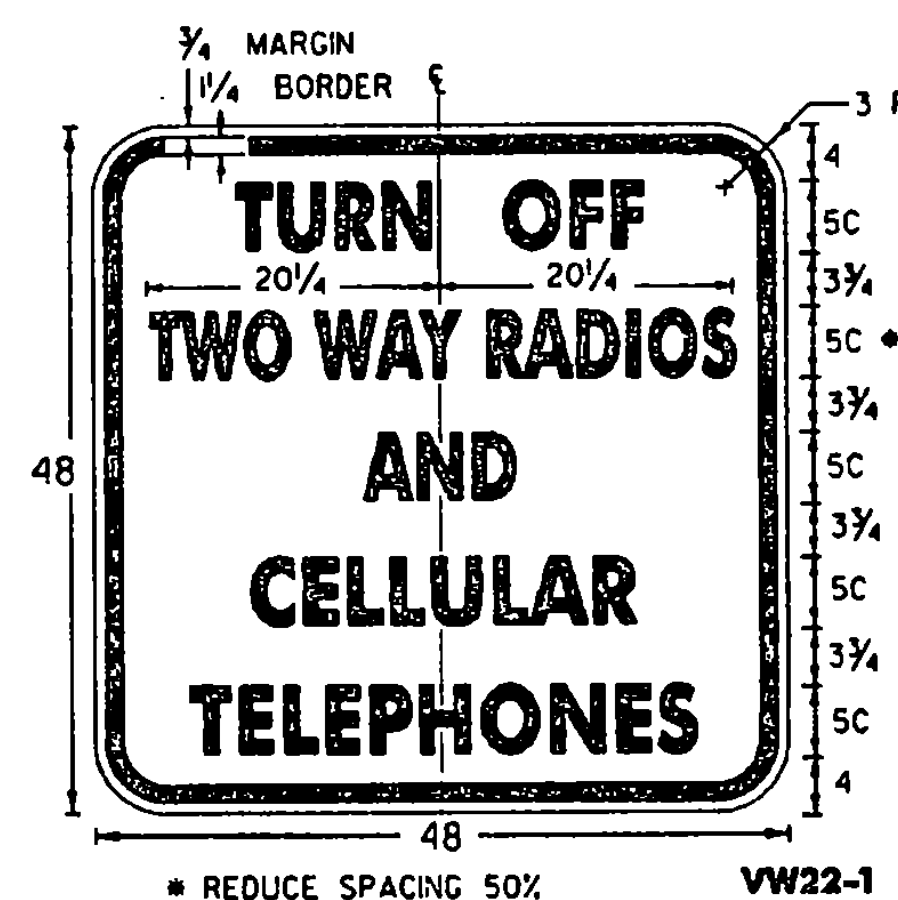
SEE STANDARD SHEET E-100 FOR NOTES AND TEXT DETAILS
COLORS FOR SIGNS SHOWN ON THIS SHEET SHALL BE BLACK TEXT, BORDER AND SYMBOLS SHALL BE ON A REFLECTORIZED ORANGE BACKGROUND OF TYPE II B OR TYPE III REFLECTIVE SHEETING, UNLESS OTHERWISE NOTED. THE EXCEPTION IS THE PADDLE SIGN.
SIGN DETAILS INDICATE THE APPROPRIATE COLOR.
SIGNS USED ONLY FOR DAYTIME MAINTENANCE OPERATIONS DO NOT NEED TO BE REFLECTORIZED, HOWEVER, THESE SIGNS SHALL BE LABELED "DAYTIME USE ONLY" ON THE BACK OF THE SIGN PANEL WITH 3" SERIES C LETTERS.



W22-1



W22-3



W22-1

SIGN	DIMENSIONS (INCHES)						
	A	B	C	D	E	F	G
STD.	36	3/4	1/4	2 3/4	13 1/2	14 3/8	2 1/4
FWY.	48	3/4	1 1/4	3 3/4	18	19 1/2	3

(ALL DIMENSIONS SHOWN IN INCHES)

OTHER STDS. E-100 REQUIRED:

REVISIONS AND CORRECTIONS

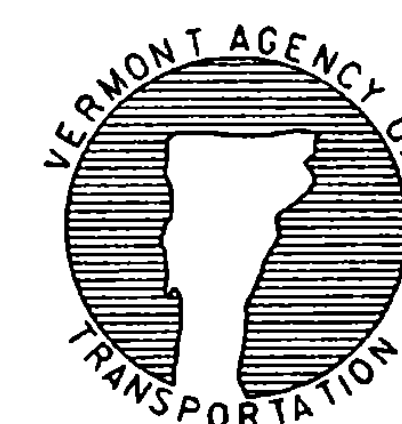
- OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
- JAN. 23, 1989 - DELETE MOTORCYCLE SYMBOL SIGN AND SPEED SIGN, ADDED TWO SIGNS
- OCT. 21, 1992 - ADDED A SIGN, REVISED A SIGN DIMENSION & TYPE ERROR & REVISED TITLE BLOCK
- AUG. 08, 1995 - ADDED FLAGGER GRID

APPROVED

Stanley J. McArthur
DIRECTOR OF ENGINEERING

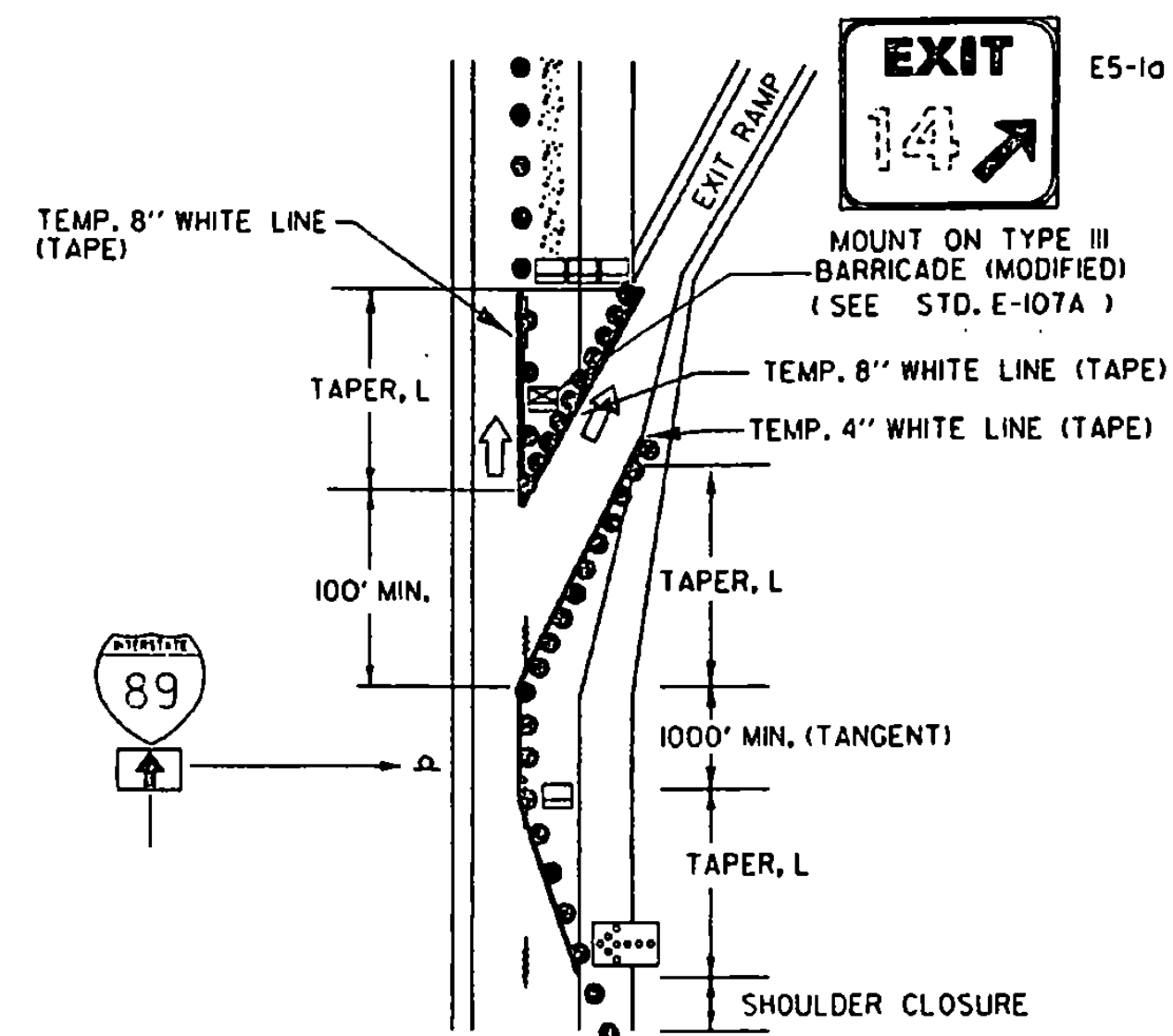
David A. Ross
TRAFFIC AND SAFETY ENGINEER

**CONSTRUCTION SIGN
DETAILS**



**STANDARD
E-102**

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



NOT TO SCALE

MAINLINE LANE CLOSURE AT AN EXIT RAMP

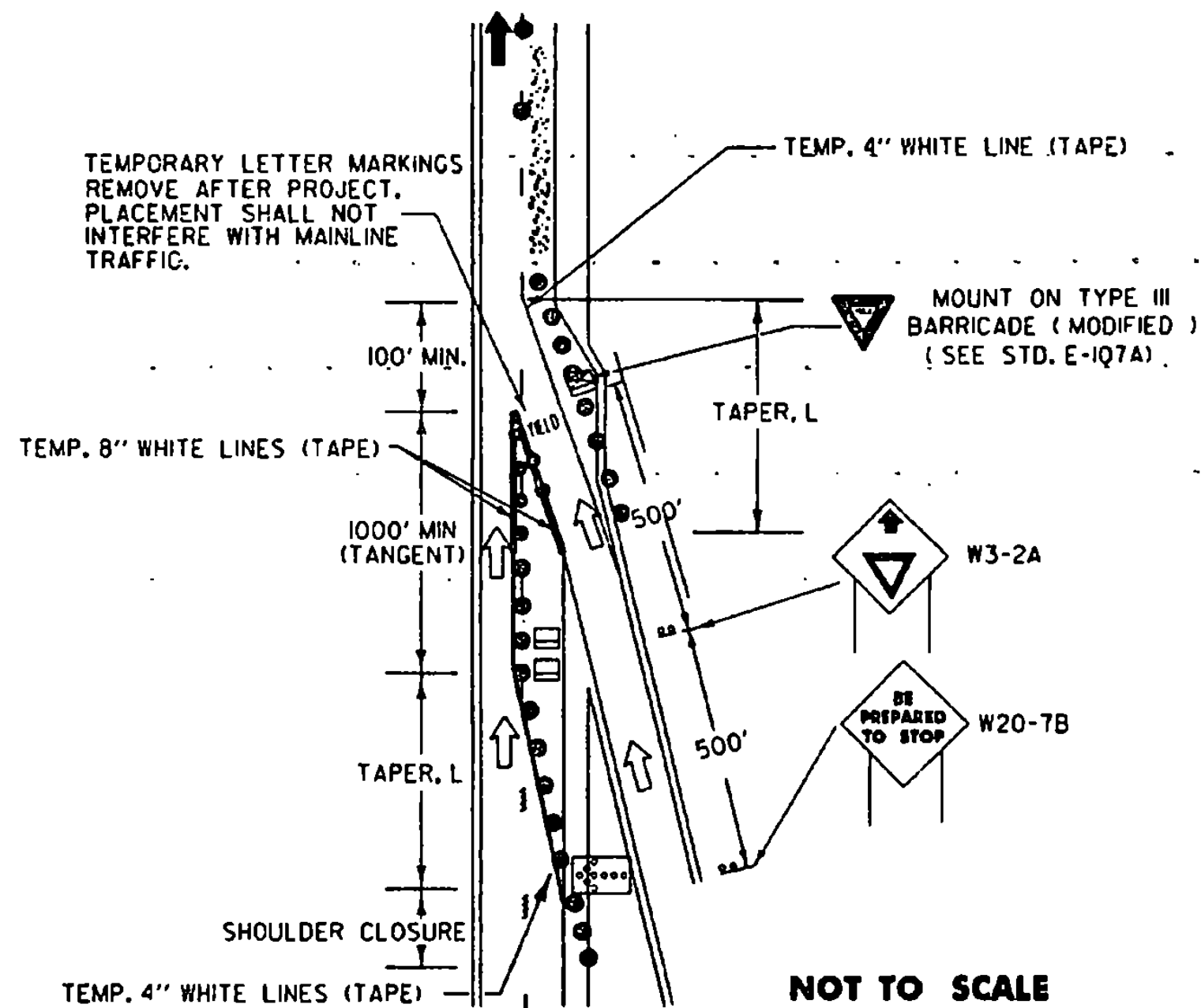
THIS DETAIL SHALL BE USED WHEN THE WORK ZONE BEGINS AT THE GORE OR THE MAINLINE LANE CLOSURE DRUM PLACEMENT INTERFERES WITH THE EXIT RAMP.

NOTES:

- 1) ALL SIGNS SHALL BE MOUNTED ON FIXED POSTS (YIELDING TYPE) UNLESS OTHERWISE NOTED.
- 2) CHANNELIZING DEVICES SHALL BE PLACED AS FOLLOWS:
TAPERS - DEVICES SHALL BE SPACED A MAXIMUM OF "S" (THE SPEED LIMIT IN FEET) APART.
TANGENT - DEVICES SHALL BE SPACED 2 X "S" (THE SPEED LIMIT IN FEET) APART.
- 3) ALL DISTANCES ARE DESIRABLE MINIMUMS. FIELD CONDITIONS SHALL CONTROL THE ACTUAL PLACEMENT.
- 4) TAPER RATES ARE BASED ON THE POSTED MAINLINE AND EXIT SPEEDS.
- 5) TEMPORARY PAVEMENT MARKINGS ARE REQUIRED WHEN THE LAYOUT IS TO BE IN EFFECT FOR THREE DAYS OR MORE.
- 6) LANE CLOSURES AND TAPER LENGTHS, L, AS DETAILED ON STANDARD E-103.
- 7) EXIT SIGN SHALL BE MOUNTED A MINIMUM OF 3' ABOVE THE GROUND AND HIGH ENOUGH TO BE SEEN ABOVE CHANNELIZING DEVICES.

LEGEND

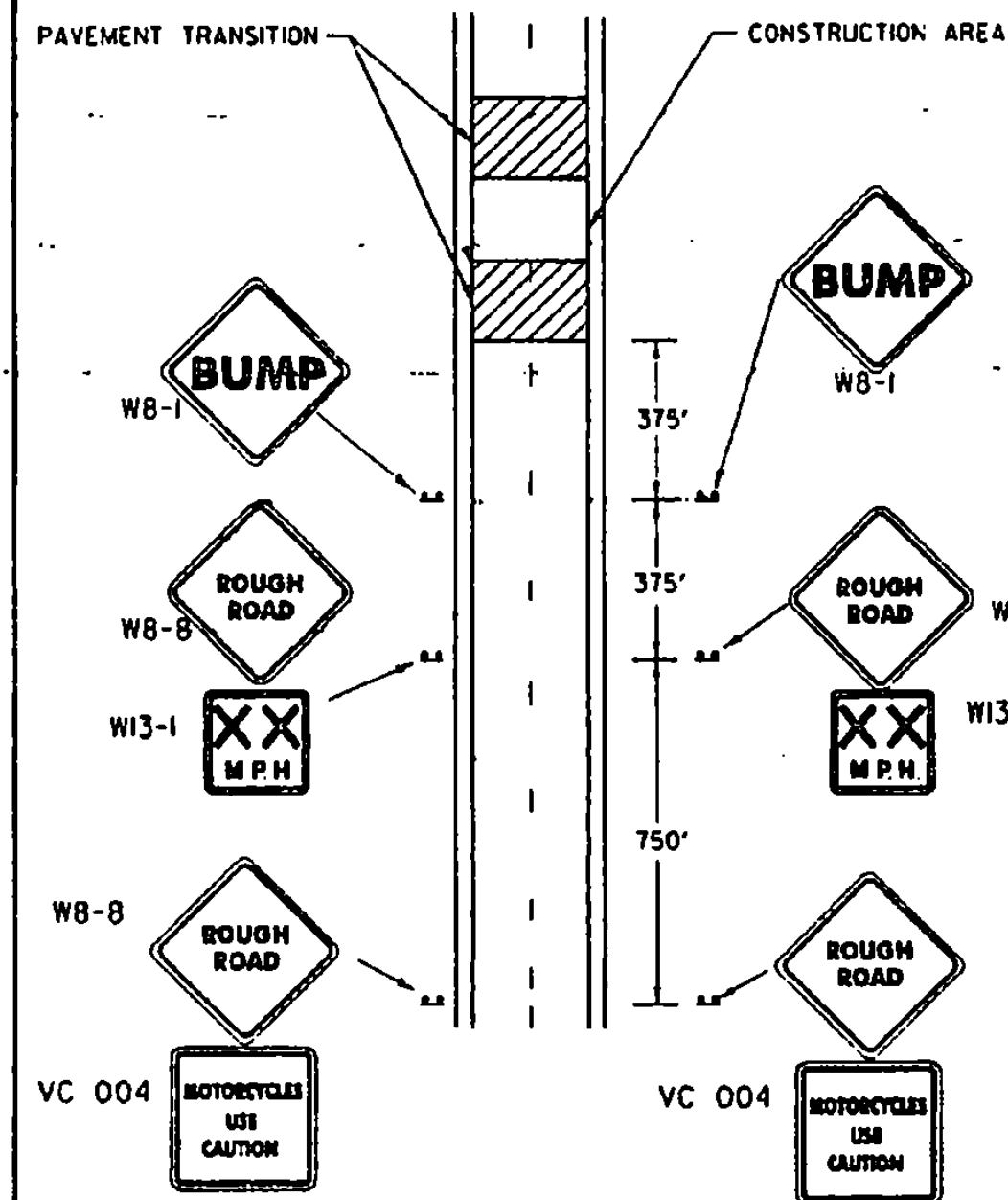
- REFL. 28" CONES
- REFL. PLASTIC DRUMS
- PAVEMENT MARKING REMOVAL
- ↑ INDICATES TRAFFIC FLOW
- ▭ WORK AREA
- ▭ FLASHING ARROW PANEL
- ▭ TYPE III BARRICADES
- ▭ TYPE III BARRICADES (MOD.)



NOT TO SCALE

MAINLINE LANE CLOSURE AT AN ENTRANCE RAMP

THIS DETAIL SHALL BE USED WHEN THE WORK ZONE BEGINS AT THE END OF THE ACCELERATION LANE OR THE MAINLINE LANE CLOSURE DRUM PLACEMENT INTERFERES WITH THE ON-RAMP TRAFFIC.
IF THE LENGTH OF THE ACCELERATION LANE IS NOT ADEQUATE, THE YIELD SIGN SHALL BE REPLACED WITH A STOP SIGN. IF A STOP SIGN IS USED, IT SHOULD BE ACCOMPANIED BY A STOP BAR.

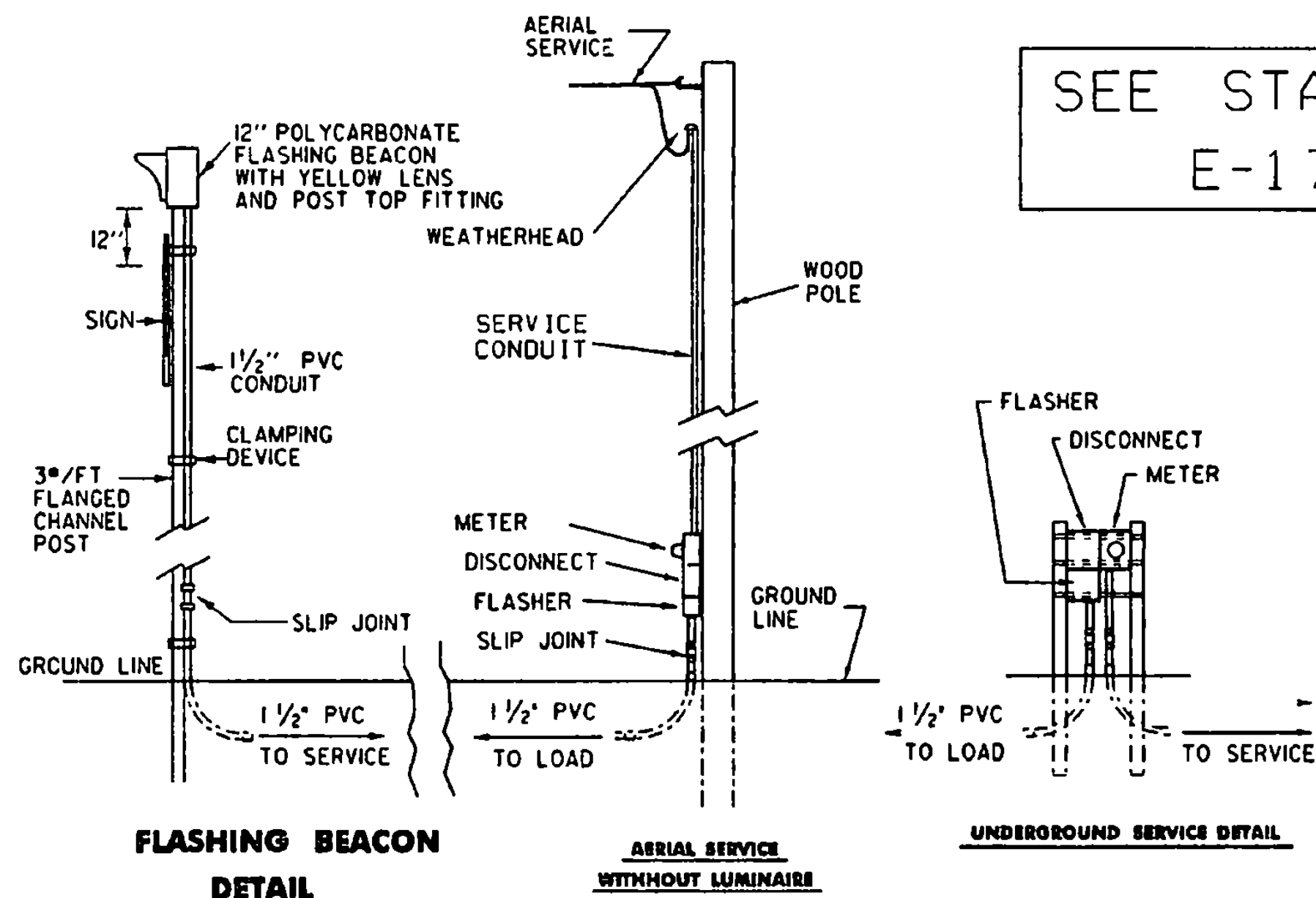


NOTES:

- 1) ADVISORY SPEED AS DETERMINED BY THE RESIDENT ENGINEER (40 M.P.H. MINIMUM RECOMMENDED)
- 2) SIGNS MOUNTED ON FIXED POSTS. (YIELDING TYPE)
- 3) ALL DISTANCES ARE DESIRABLE MINIMUMS. FIELD CONDITION SHALL CONTROL THE ACTUAL PLACEMENT.
- 4) THE BUMP SIGN MAY BE ELIMINATED WHEN THERE IS NO BUMP. WHEN THE CONTRACTOR IS WORKING IN THE CONSTRUCTION AREA THE APPROPRIATE ADVANCED WARNING SIGN PACKAGE SHALL BE USED, SEE STD. E-103.

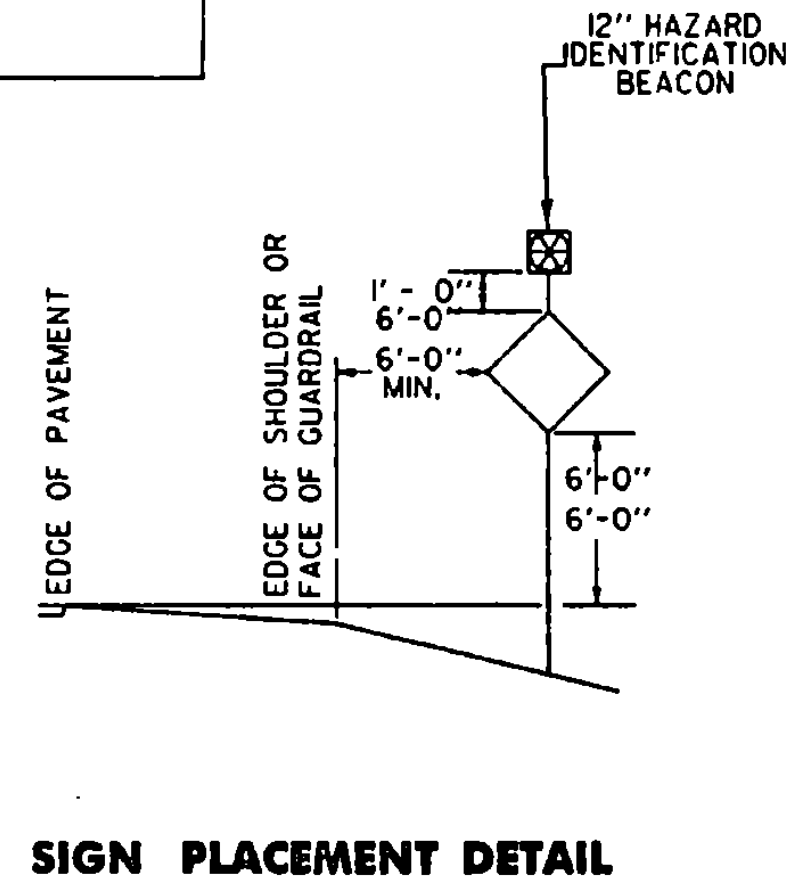
NOT TO SCALE

ADVANCED WARNING SIGN PACKAGE FOR COLD PLANED (SCARIFIED) SURFACES.



FLASHING BEACON DETAIL

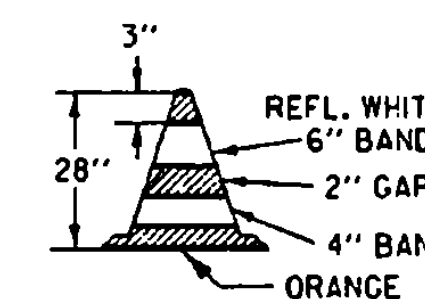
SEE STANDARD E-175



SIGN PLACEMENT DETAIL

NOTES:

- 1.) AT THE CONTRACTOR'S OPTION:
A. THE POWER SUPPLY MAY BE AERIAL OR UNDERGROUND (SEE DETAIL).
B. POWER FOR A FLASHING BEACON MAY BE COMBINED WITH POWER FOR A TRAFFIC SIGNAL OR THEY MAY HAVE SEPARATE POWER SOURCES.
C. THE FLASHER MAY BE INSTALLED ON A STANCHION NEAR THE SIGN, ON A UTILITY POLE (WITH UTILITY COMPANY APPROVAL) OR AT THE SAME LOCATION AS A TRAFFIC SIGNAL CONTROLLER.
- 2.) THE FLASHER UNIT SHALL BE ONE CIRCUIT AND INCLUDE A RADIO INTERFERENCE FILTER.
- 3.) BATTERY OPERATED FLASHERS WILL NOT BE ALLOWED.
- 4.) BOTTOM OF THE BEACON SHALL BE A MIN. OF 8'-0" AND A MAX. OF 12'-0" ABOVE THE EDGE OF THE PAVEMENT.
- 5.) FOR URBAN AREA PLACEMENT SEE STD. E-121.

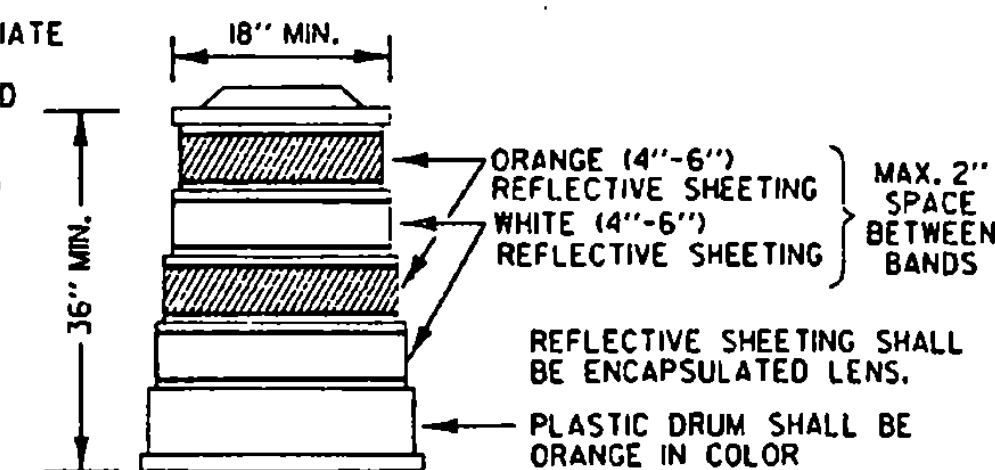


NOTES:

- 1.) 28" CONES SHALL BE USED ON ROADWAYS WITH SPEED LIMITS OF 35 MPH OR MORE AND ON ALL ROADWAYS DURING HOURS OF DARKNESS.
- 2.) CONES MAY BE WEIGHTED TO PREVENT OVERTURNING, HOWEVER THE WEIGHTS SHALL NOT PRESENT A HAZARD IF THE CONE IS STRUCK.
- 3.) REFLECTIVE SHEETING SHALL BE ENCAPSULATED LENS.

28" REFLECTORIZED CONE

SAND BAGS OR AN APPROPRIATE BALLASTING DEVICE, WHICH DOES NOT PRESENT A HAZARD TO THE IMPACTING VEHICLE OR BECOME A PROJECTILE UPON IMPACT, SHALL BE USED TO WEIGHT DRUMS.



REFLECTORIZED PLASTIC DRUM

OTHER STDS. REQUIRED: E-101 E-102 E-102A E-103 E-107A E-136 E-150 E-175

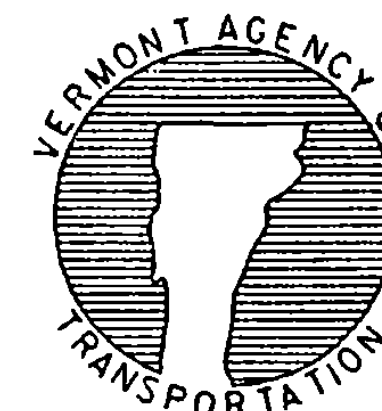
REVISIONS AND CORRECTIONS

- APR 12, 1988 - DATE OF ORIGINAL ISSUE
- JAN 23, 1989 - REVISED EXIT SIGN - CLARIFIED EXIT TAPER
- SEPT 20, 1993 - REVISED RAMP CLOSURES, FLASHING BEACON DETAILS AND MOVED TYPE III BARRICADE (MOD) TO STD E-107A
- AUG 08, 1995 - REVISED BEACON SIZE

APPROVED

Stephen D. The Athlete
DIRECTOR OF ENGINEERING
David A. Ross
TRAFFIC AND SAFETY ENGINEER

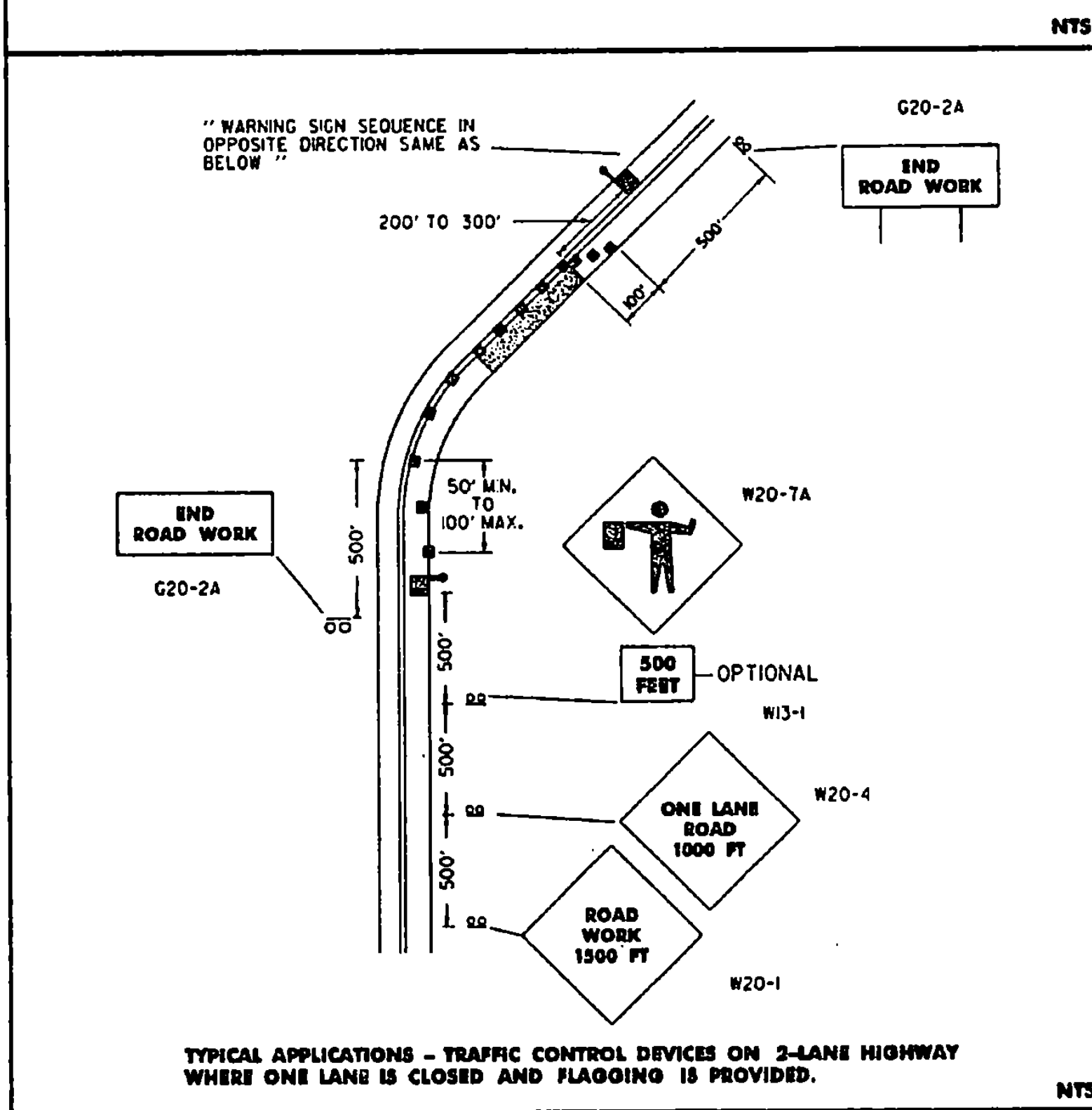
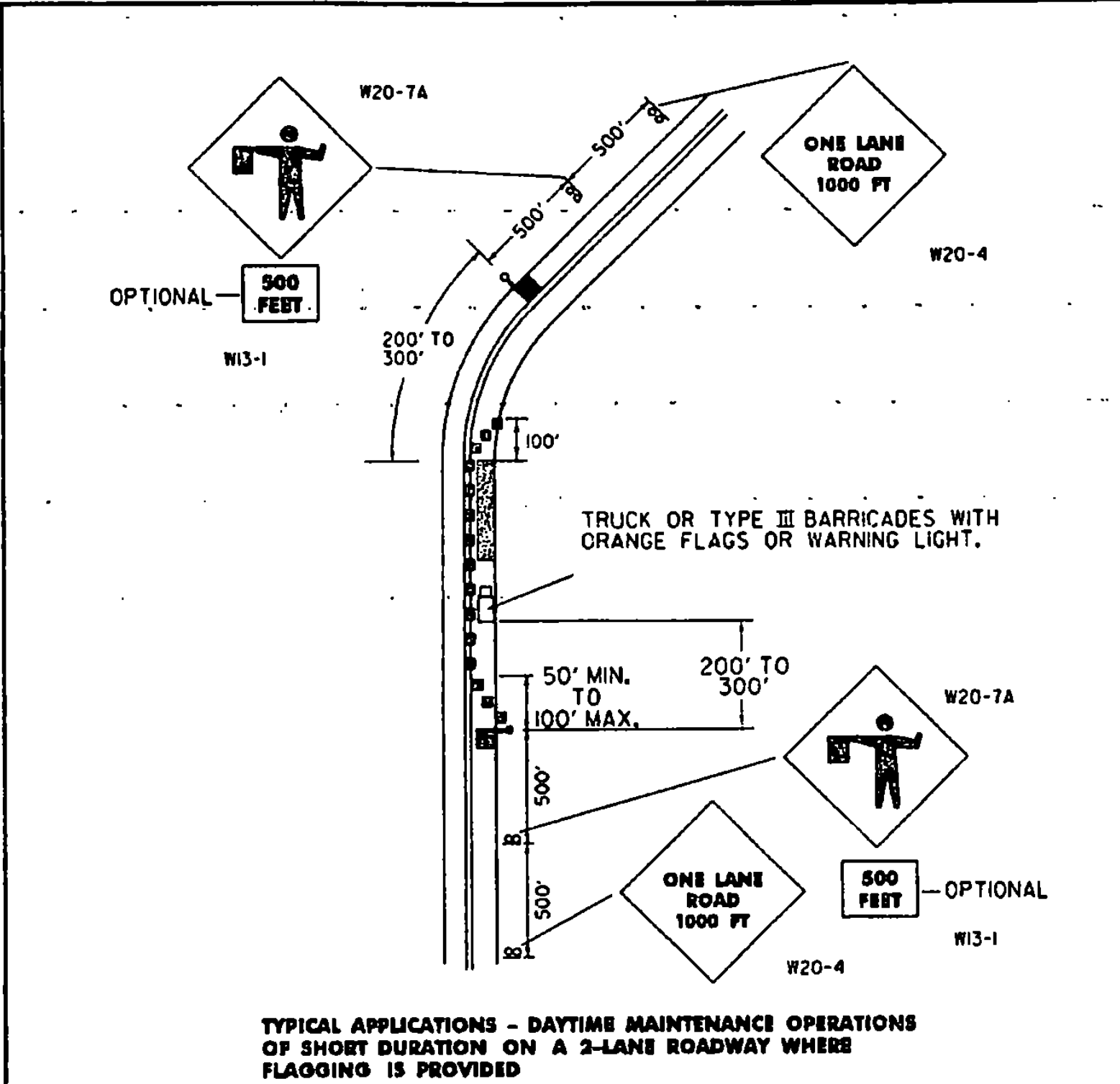
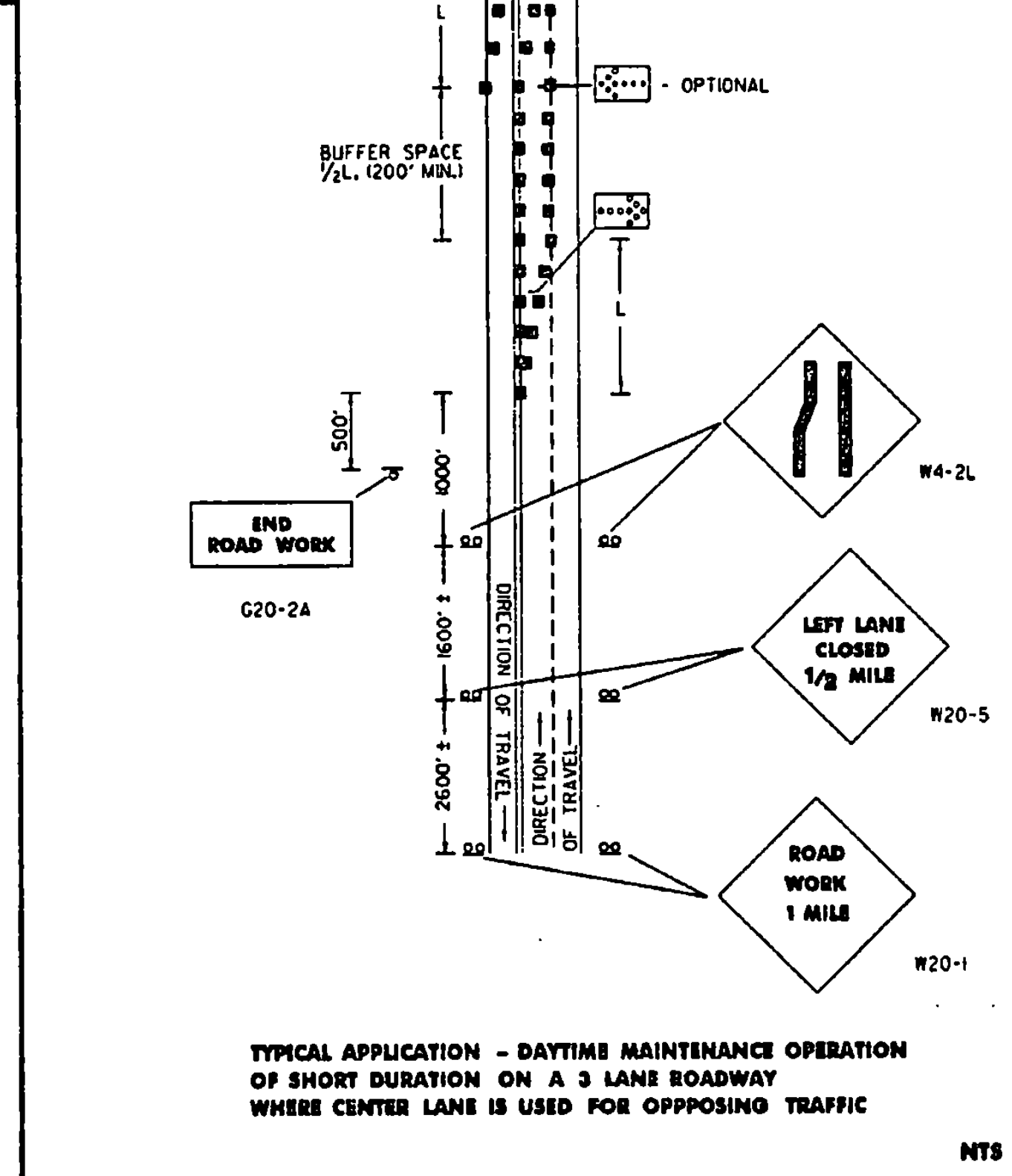
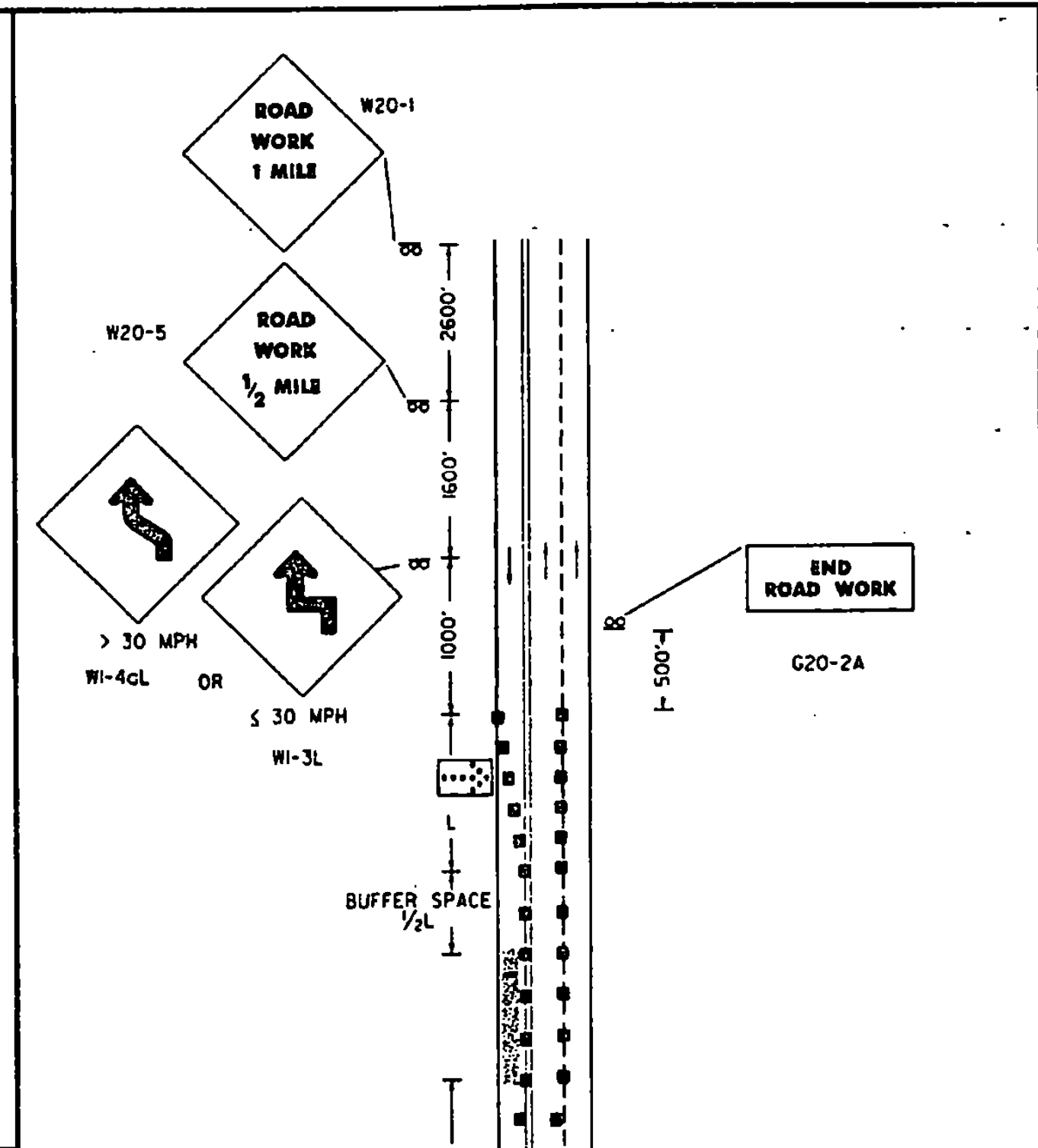
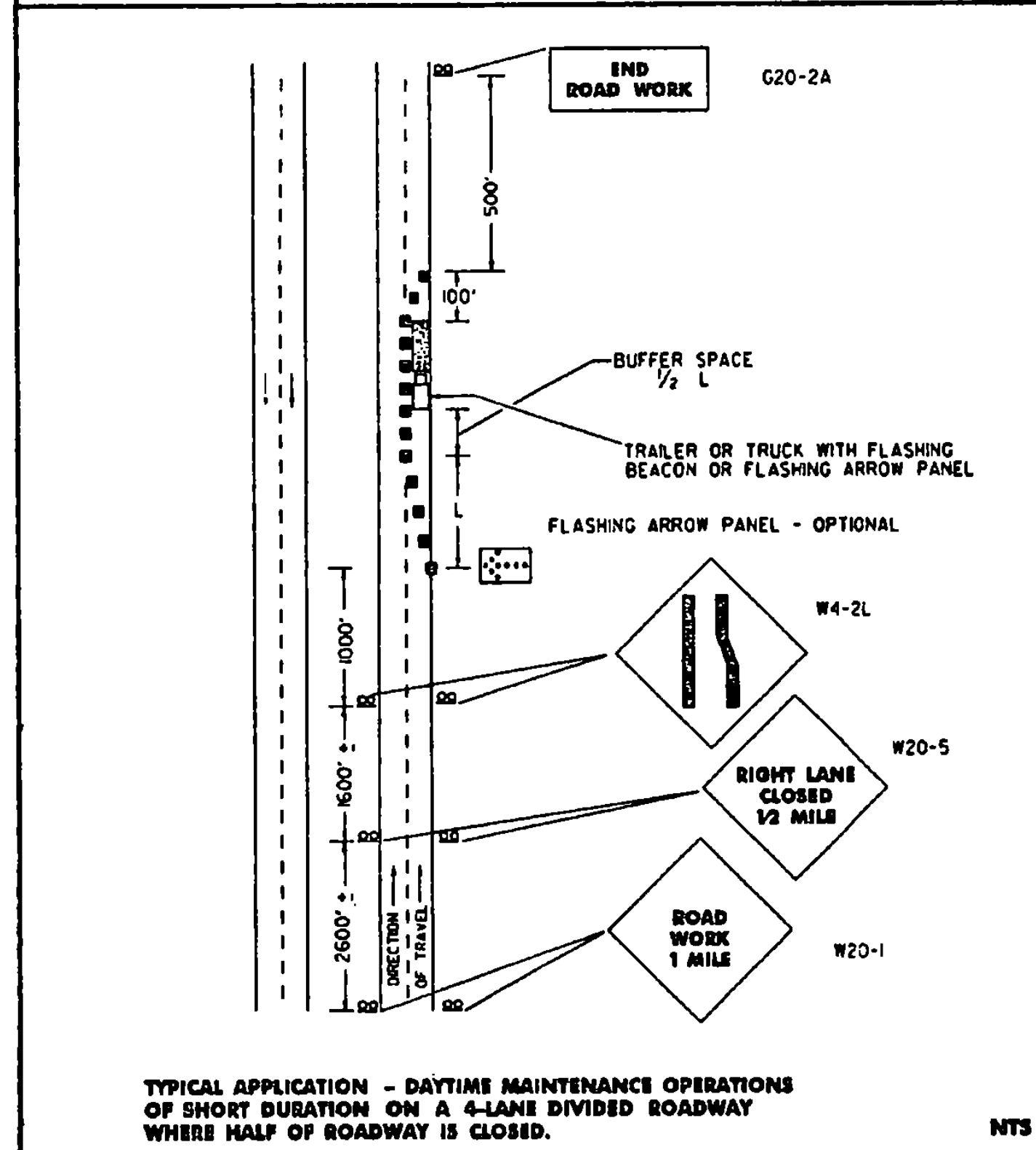
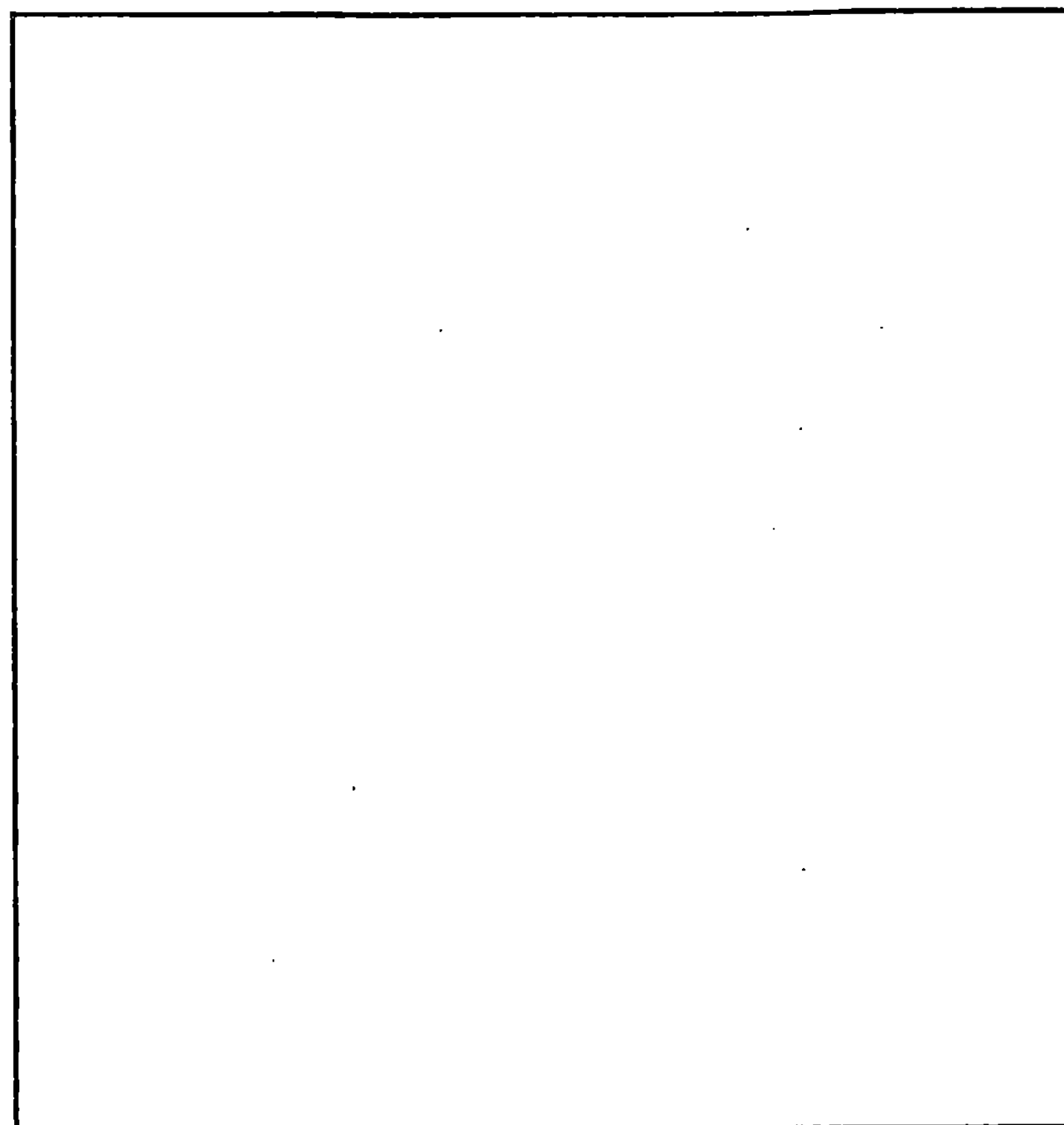
TRAFFIC CONTROL MISCELLANEOUS DETAILS



STANDARD E-106

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

/traf/std/stdel06.dgn : stdel06.l



NOTES

REFLECTORIZATION
ALL SIGNS USED DURING THE HOURS OF DARKNESS SHALL BE REFLECTORIZED (TYPE II OR III). CONES USED FOR TRAFFIC CONTROL AT NIGHT SHALL COMPLY WITH STANDARD E-106.

COLORS
THE WARNING SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT, BORDER, AND SYMBOLS ON AN ORANGE BACKGROUND. THE TEXT AND BORDERS MAY BE SCREENED, LETTERING FILM, OR HAND PRINTED. THE ORANGE SHALL CONFORM WITH THE STANDARD COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

TEXT DESIGN
LETTERS, DIGITS, SPACING, AND TEXT DIMENSIONS SHALL CONFORM WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS" AS REFERENCED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

SPECIFICATIONS
WARNING SIGNS SHALL MEET THE STANDARD STATE SPECIFICATIONS FOR TRAFFIC SIGNS.

SIGN BASE MATERIAL
THE SIGN BASE MATERIAL USED FOR THE WARNING SIGNS ON THIS SHEET MAY BE OF ANY OF THE FOLLOWING, WITH MINIMUM THICKNESS AS NOTED:
 FLAT STEEL OR ALUMINUM 0.125 INCHES
 HIGH DENSITY OVERLAYED PLYWOOD 1/2, 5/8, OR 3/4 INCHES
 GALVANIZED SHEET STEEL 12 GAGE

- SIGNS WITH "ROAD WORK 1500 FT." AND "END ROAD WORK" TEXT SHALL BE USED WHEN THE WORK IS NOT COMPLETE AND A HAZARD REMAINS OVERNIGHT.
- THE FLAGPERSON SHALL USE THE SIGN PADDLE DETAILED ON STANDARD SHEET E-102.
- ALL SIGNS SHALL BE COVERED OR REMOVED AT THE END OF THE WORKING DAY UNLESS REQUIRED FOR THE PROTECTION AND SAFETY OF THE TRAVELING PUBLIC.
- INSTALLATION, SIGNS AND BARRICADES SHALL BE IN PLACE PRIOR TO THE START OF THE MAINTENANCE OPERATION TO WHICH THEY APPLY AND SHALL BE REMOVED PROMPTLY WHEN THE NEED NO LONGER EXISTS. EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER ON YIELDING WOOD OR METAL POSTS SET SECURELY IN THE GROUND IN ACCORDANCE WITH STD. E-121, OR ON PORTABLE SUPPORTS WHEN APPROPRIATE. THE INSTALLATION OF SIGNS AND BARRICADES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- ALTHOUGH LISTED AS A MAINTENANCE OPERATION STANDARD SIGN SHEET, THE APPROACH SIGNS SHOWN SHALL BE USED BY CONTRACTORS WHEN WORKING WITHIN OR OUTSIDE PROJECT LIMITS.
- ALL DISTANCES ARE DESIRABLE SPECIFICATIONS. FIELD CONDITIONS SHALL CONTROL THE ACTUAL PLACEMENT.
- SIGN DETAILS NOT SHOWN ON THIS SHEET CAN BE FOUND ON STANDARD SHEETS E-100, E-101, AND E-102.
- TAPER FORMULA
 $L = \frac{WS^2}{60}$ FOR SPEEDS OF 45 OR MORE
 $L = \frac{WS^2}{80}$ FOR SPEEDS OF 40 OR LESS
 WHERE
 L = MINIMUM LENGTH OF TAPER
 S = NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85 PERCENTILE SPEED.
 W = WIDTH OF OFFSET.
- THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT IN M.P.H., ON TANGENT SECTIONS THE MAXIMUM SPACING SHOULD BE APPROXIMATELY EQUAL TO TWICE THE POSTED SPEED LIMIT.
- FLOOD LIGHTS SHOULD BE PROVIDED TO MARK THE FLAGPERSON STATIONS AT NIGHT AS NEEDED.
- AT SHORT WORK ZONES WHERE ADEQUATE SIGHT DISTANCE IS AVAILABLE FOR THE SAFE HANDLING OF TRAFFIC ONE FLAGGER MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
- CHANNELIZING DEVICES SHALL BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
- THE NUMBER OF CHANNELIZING AND OTHER TRAFFIC CONTROL DEVICES SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. THE ACTUAL NUMBER REQUIRED SHALL BE DETERMINED BASED ON INDIVIDUAL DETOUR CONDITIONS (TAPERS, SPEED LIMITS, LENGTH OF DETOUR CURVE, ETC.).

LEGEND:

■ FLAGPERSON	□ WORK AREA
■ CHANNELIZING DEVICES (CONES OR DRUMS)	□ SIGN & POSTS
□ FLASHING ARROW PANEL	□ TYPE III BARRICADES

OTHER STDS. REQUIRED: E-100 E-101 E-102 E-106

REVISIONS AND CORRECTIONS

SEPT 10, 1987 - DATE OF ORIGINAL ISSUE
 MAR 01, 1988 - FHWA REVIEW COMMENTS

SEP 20, 1993 - REVISED NOTES & MISC. DETAILS

AUG 08, 1995 - DELETED SIGN DETAILS

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

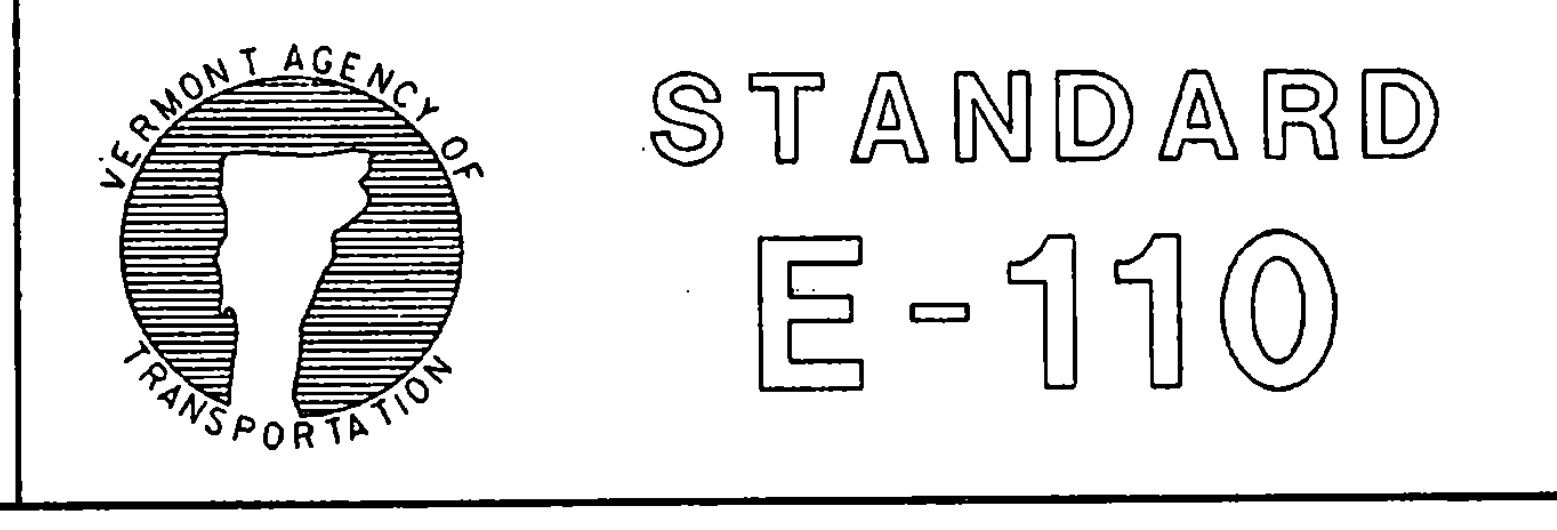
APPROVED

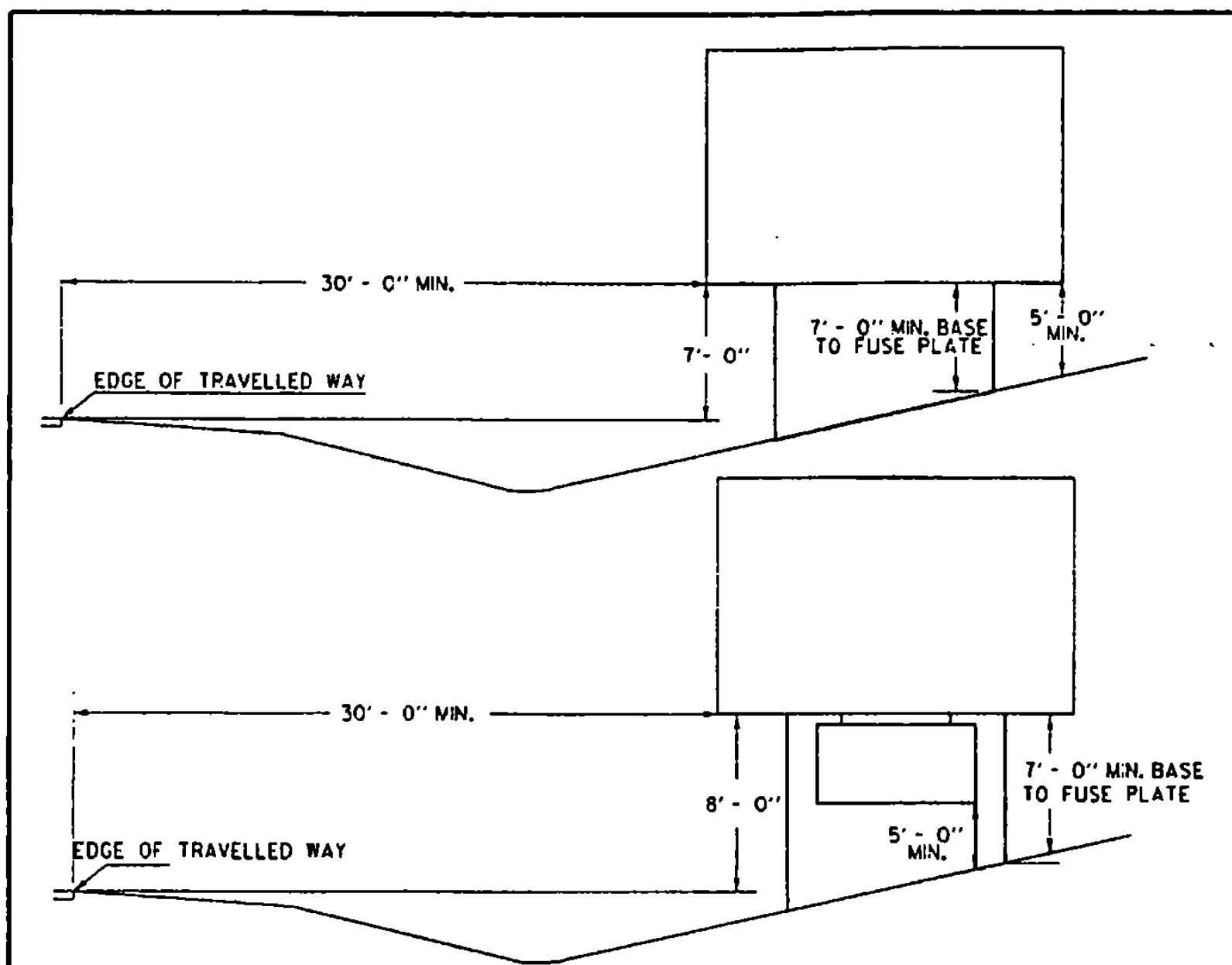
Stephen D. McArthur
 DIRECTOR OF ENGINEERING

David A. Ross
 TRAFFIC AND SAFETY ENGINEER

MAJOR MAINTENANCE OPERATION LANE CLOSURE

/traf/std/stdell0.dgn ; stdell0.l



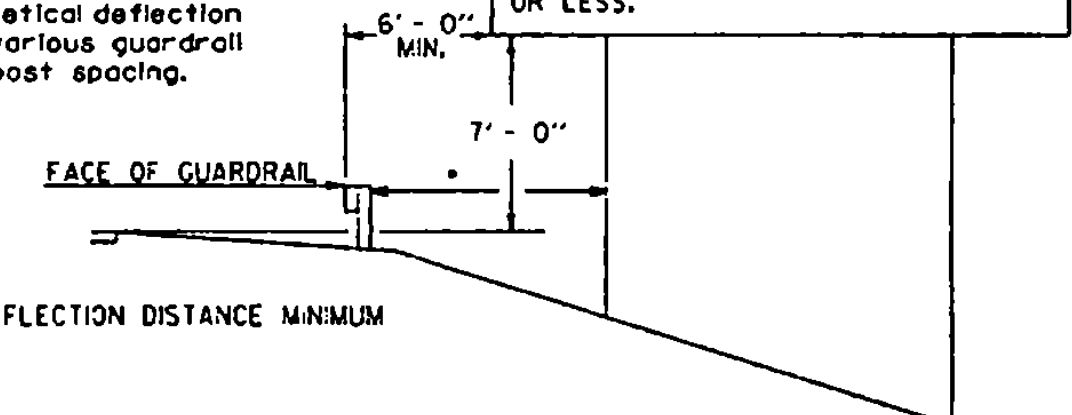


GUARDRAIL DEFLECTION CHART
(PER AASHTO - ROADSIDE DESIGN GUIDE - 1988)

TYPE	SPACING	DEFLEC.
Three Cable w/Steel Posts w/Wooden Posts	16'-0"	12 ft.
W-Beam w/Weak Posts w/Strong Posts	12'-6"	7 ft.
Box Beam	6'-0"	5 ft.
Triple Beam w/Weak Posts w/Strong Posts	12'-6"	4 ft.
	6'-3"	2 ft.

WHEN PLACED BEHIND GUARDRAIL AND BEYOND THE DEFLECTION DISTANCE FOR THAT PARTICULAR RAIL, SIGN POSTS DO NOT HAVE TO BE PLACED ON YIELDING SUPPORTS. SIGN POSTS SHALL BE PLACED ON YIELDING SUPPORTS WHEN THEY CAN BE STRUCK BY AN ERRANT VEHICLE LEAVING THE ROADWAY AT AN ENCROACHMENT ANGLE OF APPROXIMATELY 15 DEGREES OR LESS.

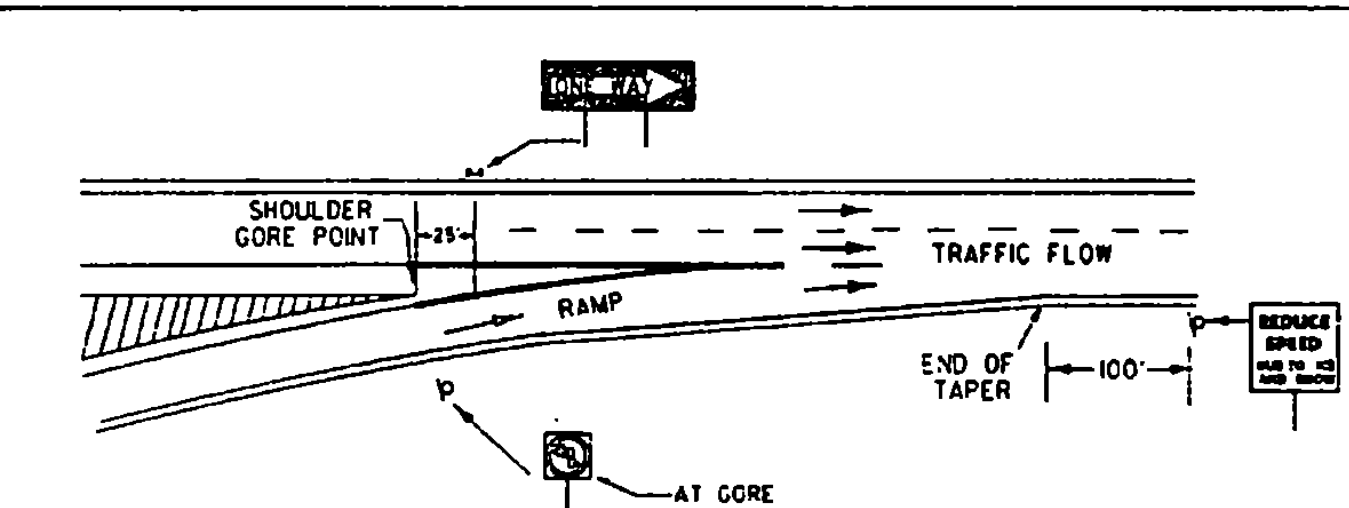
This chart lists the theoretical deflection distance upon impact of various guardrail with different type and post spacing.



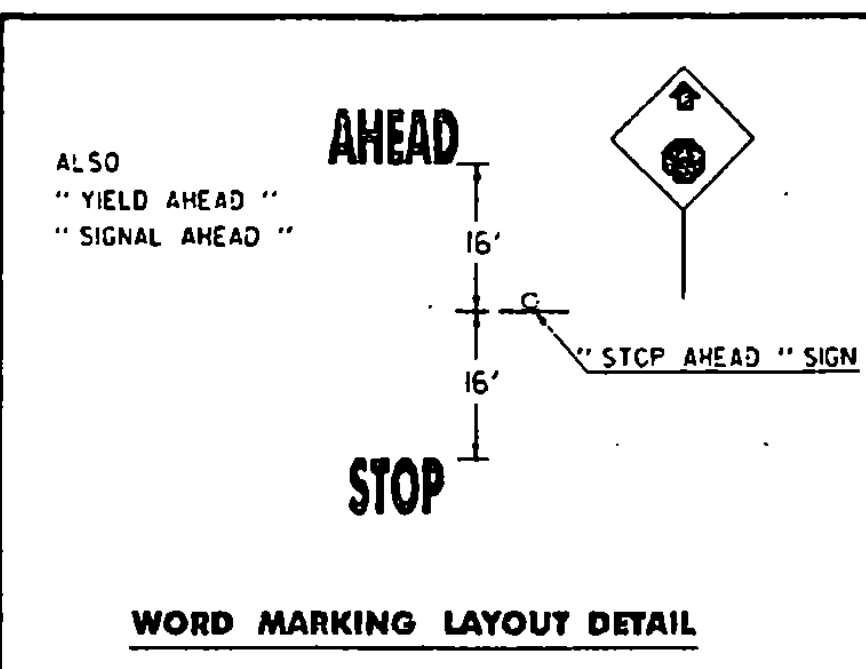
INSTALLATION DETAILS

NORMALLY SIGNS SHOULD BE MOUNTED AT 93° TO THE DIRECTION OF TRAFFIC, ON CURVED ALIGNMENT THE ANGLE OF PLACEMENT SHOULD BE DETERMINED BY THE PATH OF APPROACHING TRAFFIC RATHER THAN BY THE ROADSIDE EDGE AT THE POINT WHERE THE SIGN IS LOCATED. WHEN INSTALLING OVERHEAD SIGNS, CANT THE SIGN FROM THE TOP TOWARD APPROACHING TRAFFIC AT A THREE DEGREE TILT ANGLE.

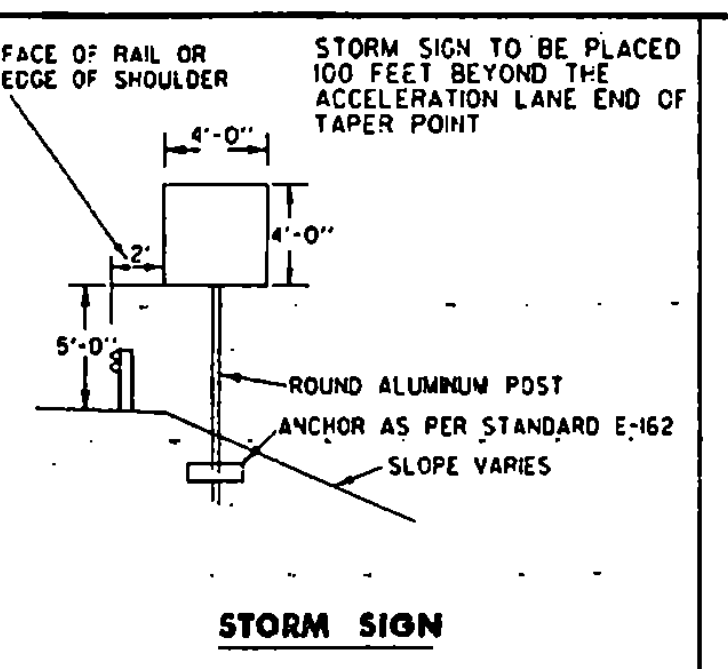
GUIDE SIGNS



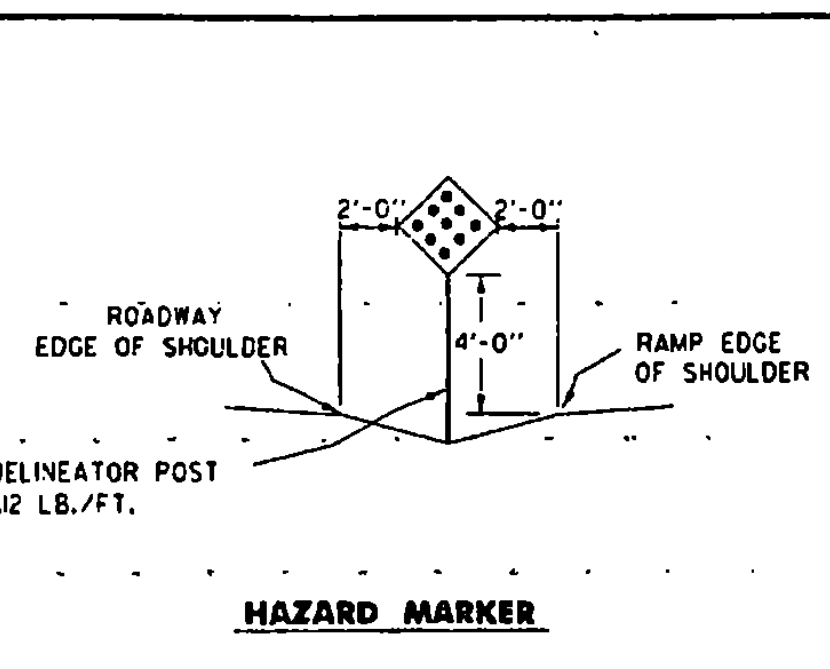
SIGN PLACEMENT AT END OF RAMP



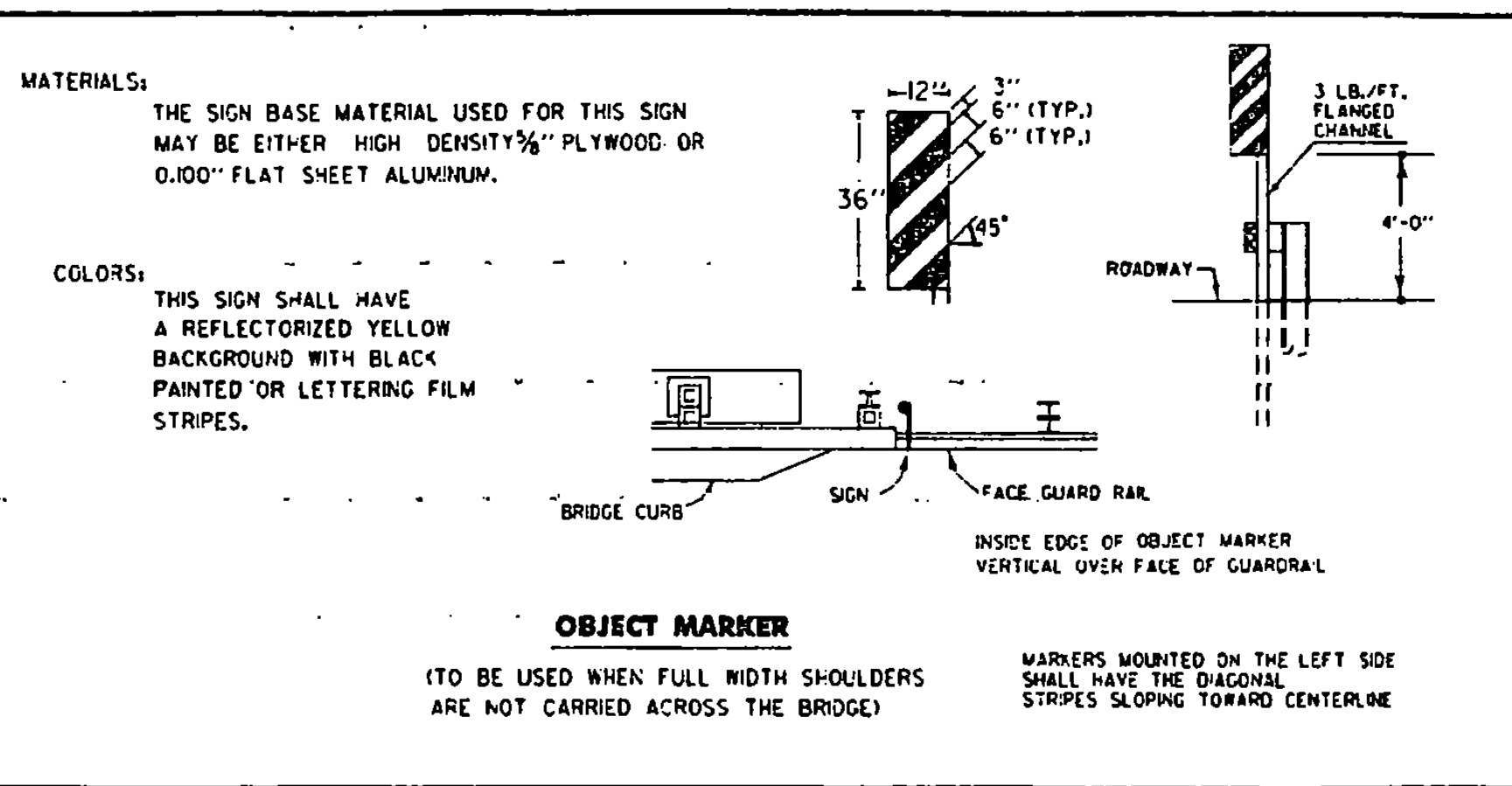
WORD MARKING LAYOUT DETAIL



STORM SIGN

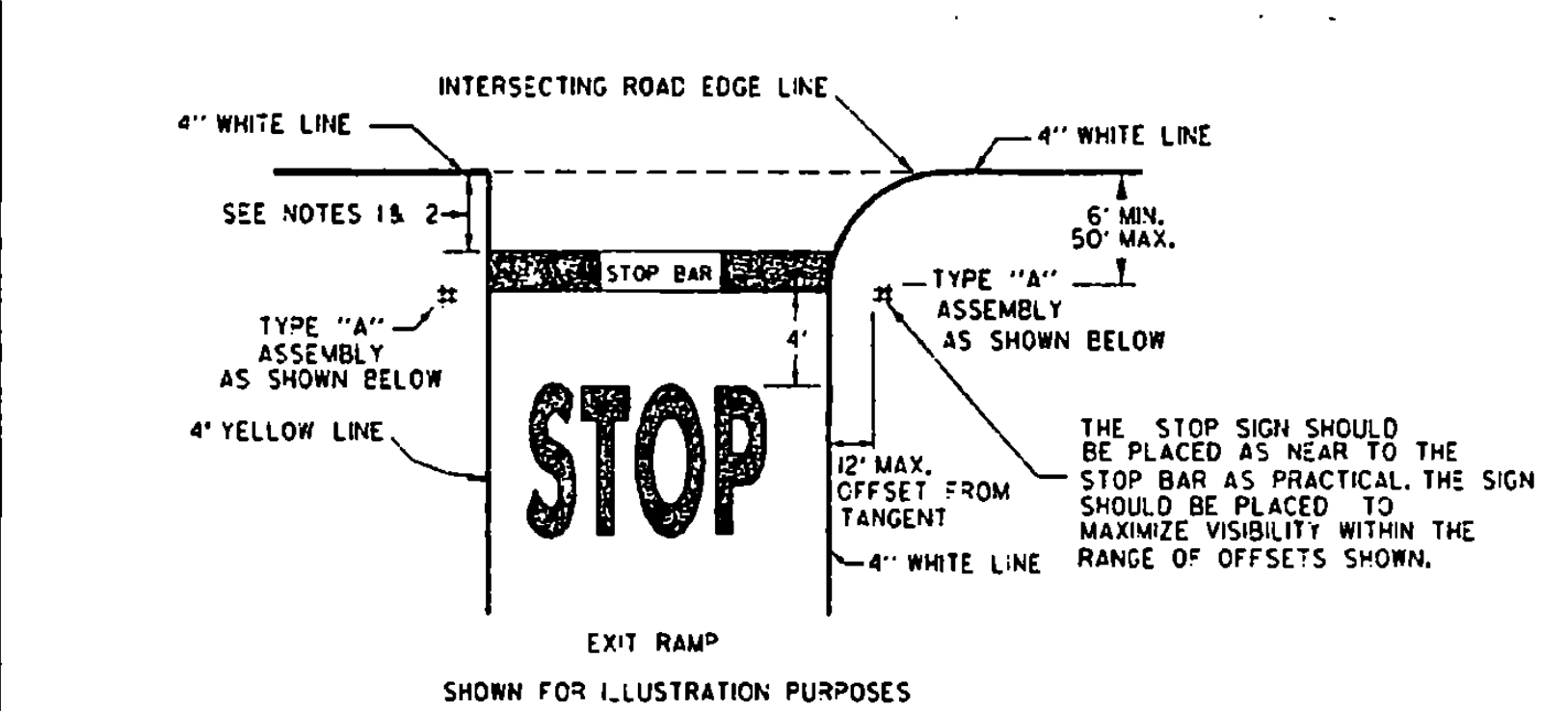


HAZARD MARKER



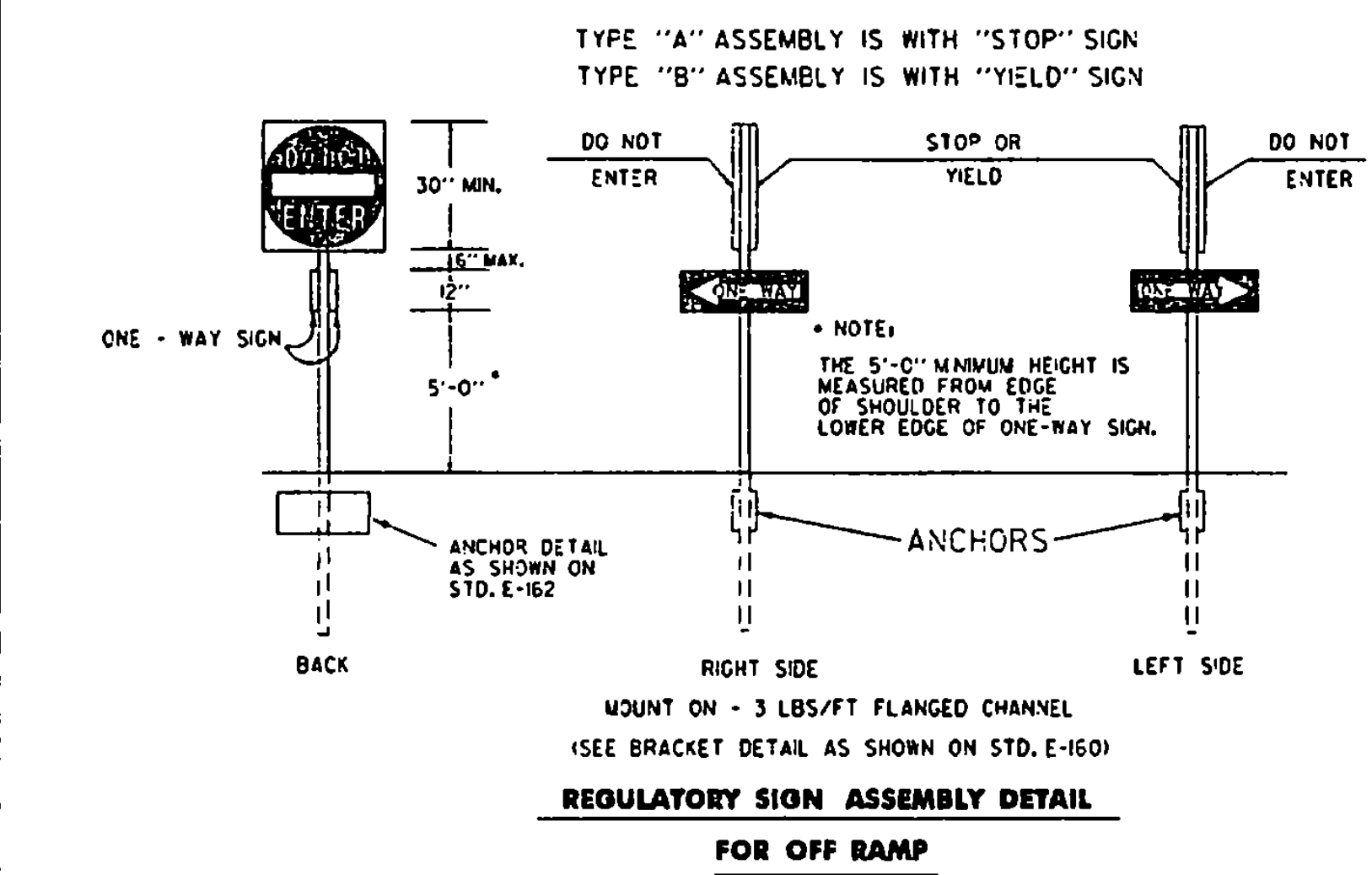
OBJECT MARKER

(TO BE USED WHEN FULL WIDTH SHOULDERS ARE NOT CARRIED ACROSS THE BRIDGE) MARKERS MOUNTED ON THE LEFT SIDE SHALL HAVE THE DIAGONAL STRIPES SLOPING TOWARD CENTERLINE

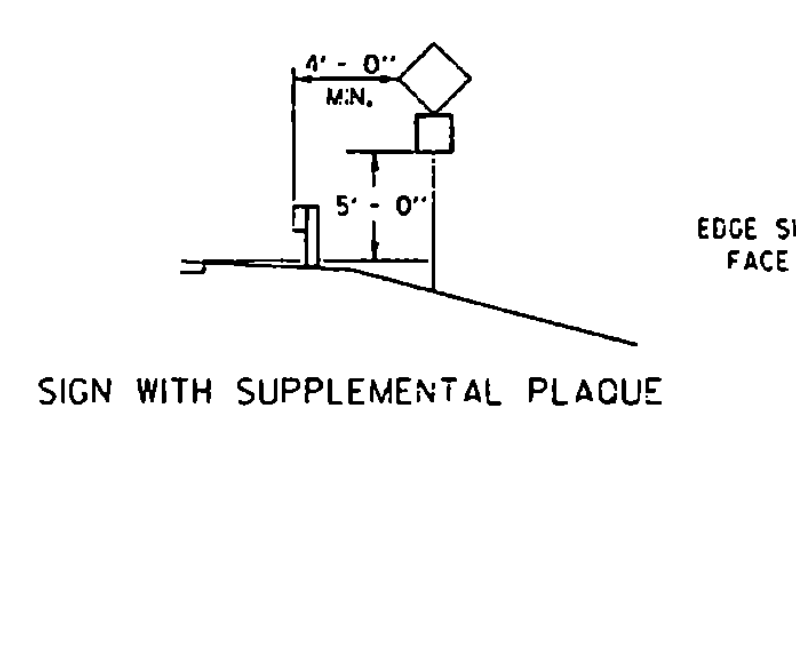


PAVEMENT MARKING & STOP SIGN LOCATION DETAILS FOR OFF RAMP

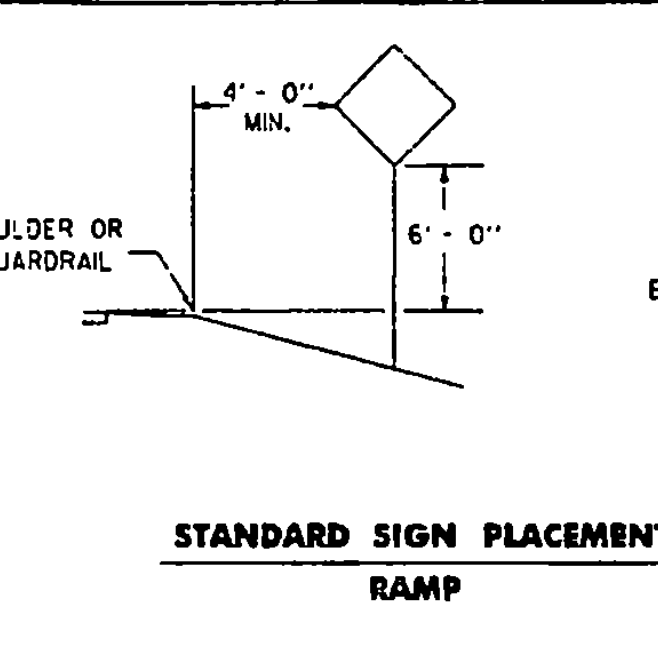
- NOTES:**
1. THE STOP BAR SHOULD BE PLACED AT THE DESIRED STOPPING POINT, IN NO CASE MORE THAN 30' OR LESS THAN 4' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
 2. AT A SIGNALIZED INTERSECTION, DELETE WORDING "STOP" AND THE STOP SIGN AND PLACE STOP BAR A MINIMUM OF 40' FROM THE NEAREST SIGNAL HEAD FOR THE APPROACH.
 3. EXCLUDE THE STOP BAR FOR A YIELD CONDITION.



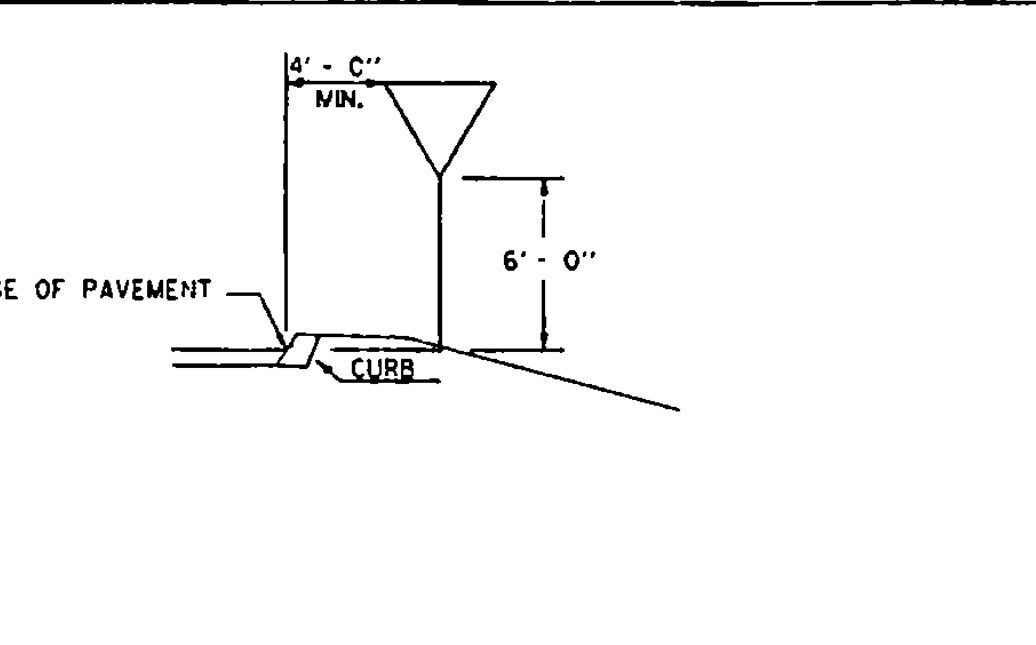
REGULATORY SIGN ASSEMBLY DETAIL FOR OFF RAMP



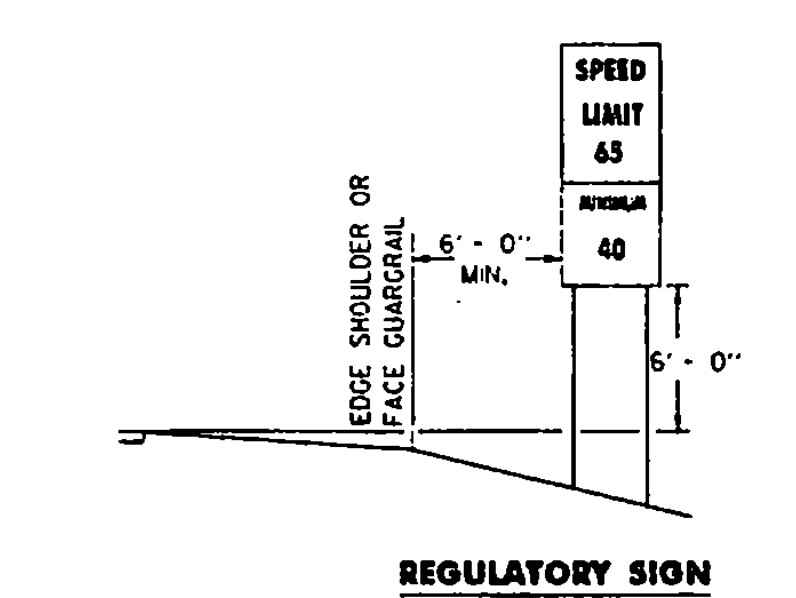
SIGN WITH SUPPLEMENTAL PLAQUE



STANDARD SIGN PLACEMENT RAMP

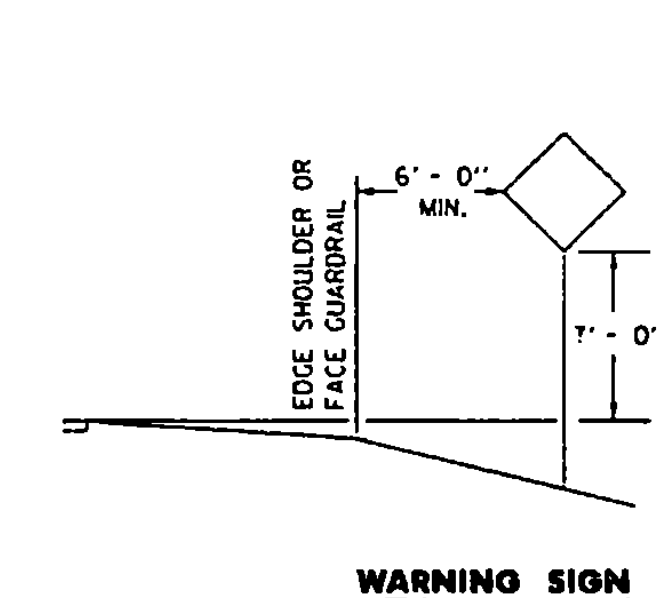


STANDARD SIGN PLACEMENT MAINLINE

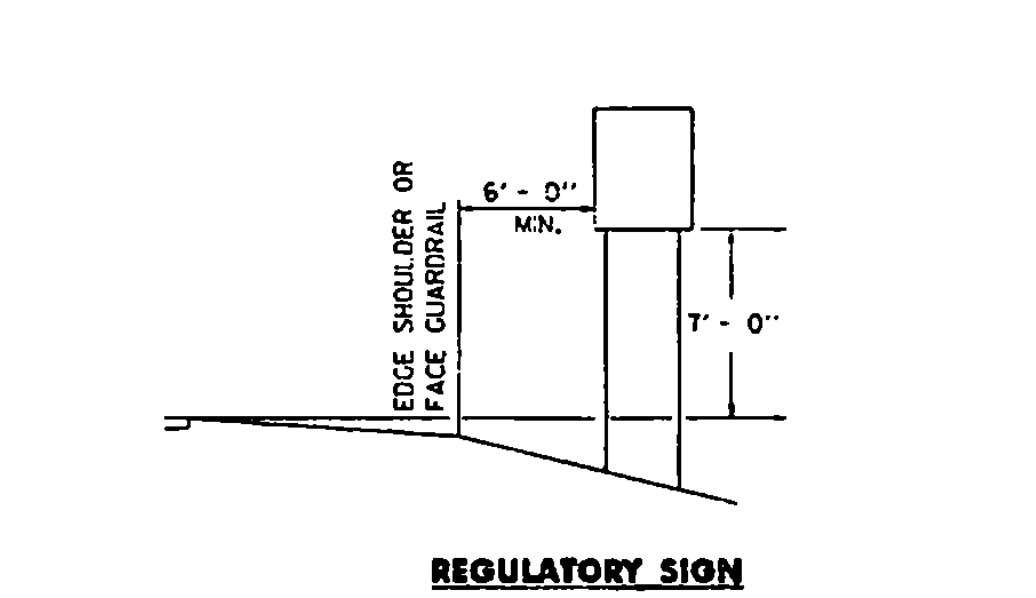


REGULATORY SIGN

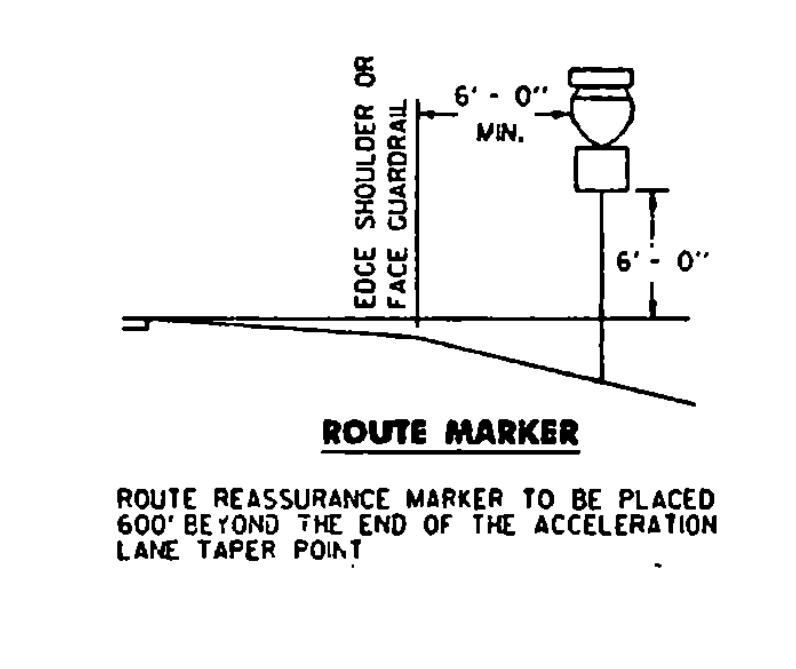
SPEED LIMIT SIGN TO BE PLACED 1600 FEET BEYOND THE END OF THE ACCELERATION LANE TAPER POINT.



WARNING SIGN

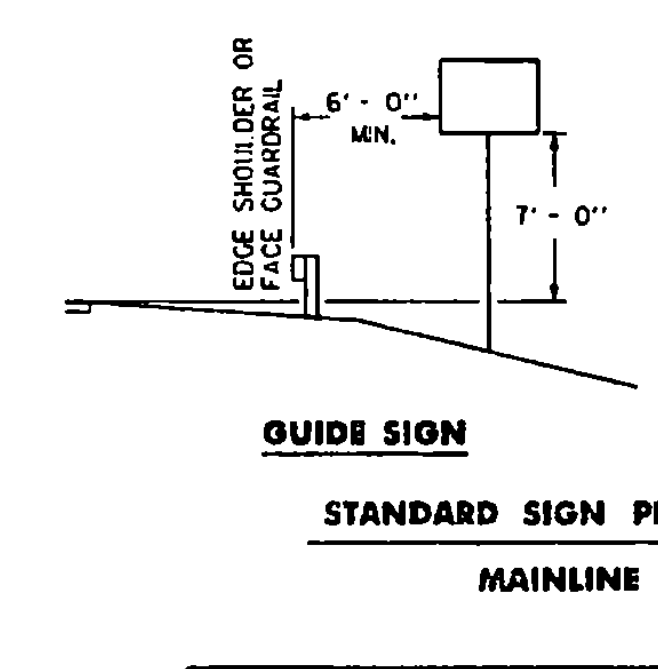


REGULATORY SIGN

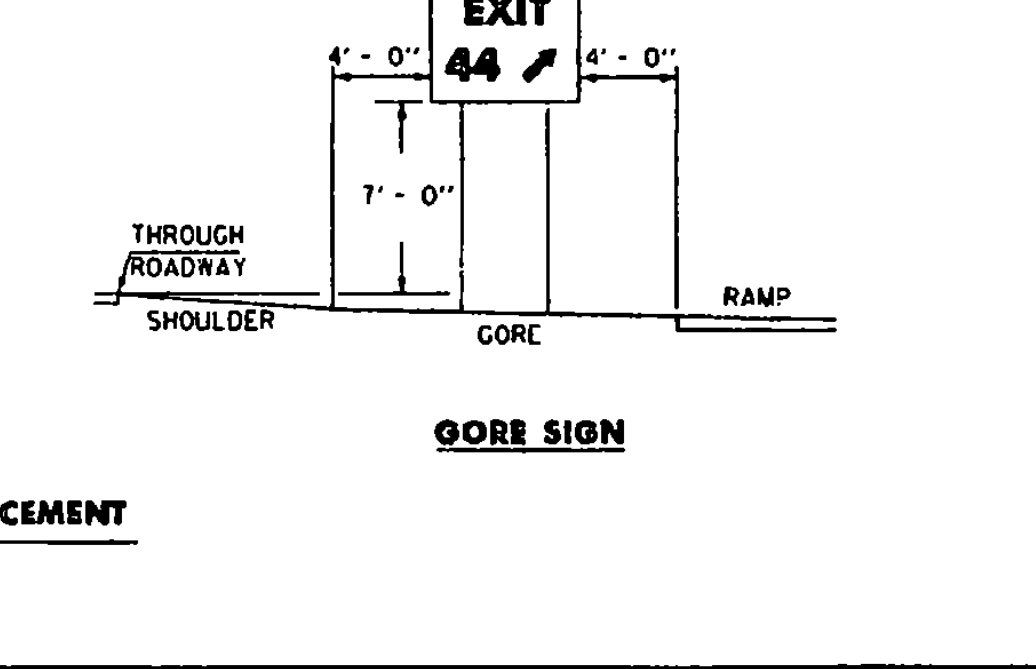


ROUTE MARKER

ROUTE REASSURANCE MARKER TO BE PLACED 600' BEYOND THE END OF THE ACCELERATION LANE TAPER POINT



GUIDE SIGN



GORE SIGN

REVISIONS AND CORRECTIONS

APR. 01, 1988 - DATE OF ORIGINAL ISSUE

JUNE 21, 1989 - FHWA - CHANGE TO 7' FUSE PLATE CLEARANCE

AUG. 08, 1995 - DELETED TWO RAIL ALUMINUM FROM DEFLECTION CHART AND MINOR NOTE REVISIONS

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

APPROVED

Stephen D. MacArthur
DIRECTOR OF ENGINEERING

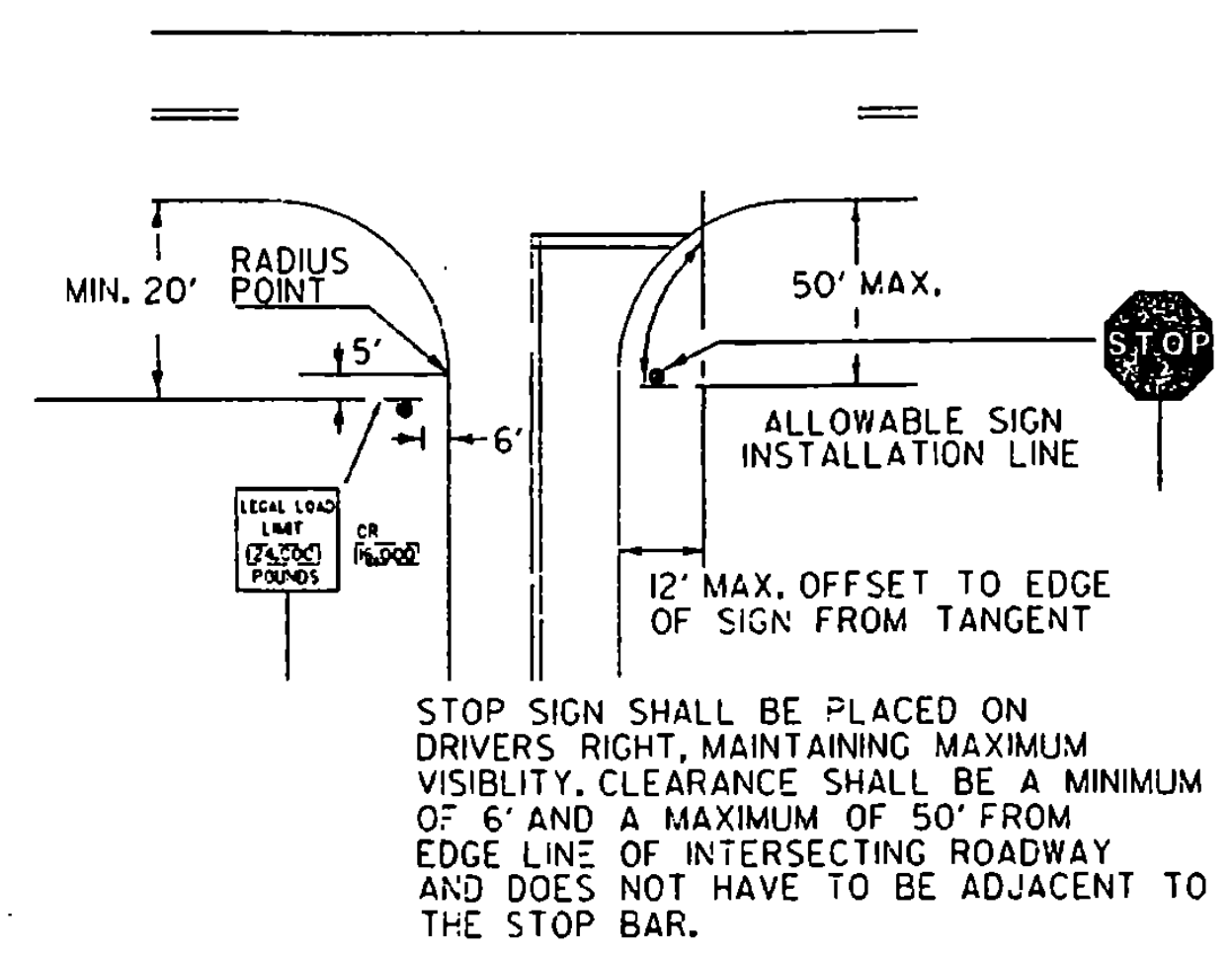
David A. Ross
TRAFFIC AND SAFETY ENGINEER

STANDARD SIGN PLACEMENT EXPRESSWAY AND FREEWAY

OTHER STDS. E-160 E-161 E-162 E-163 REQUIRED:

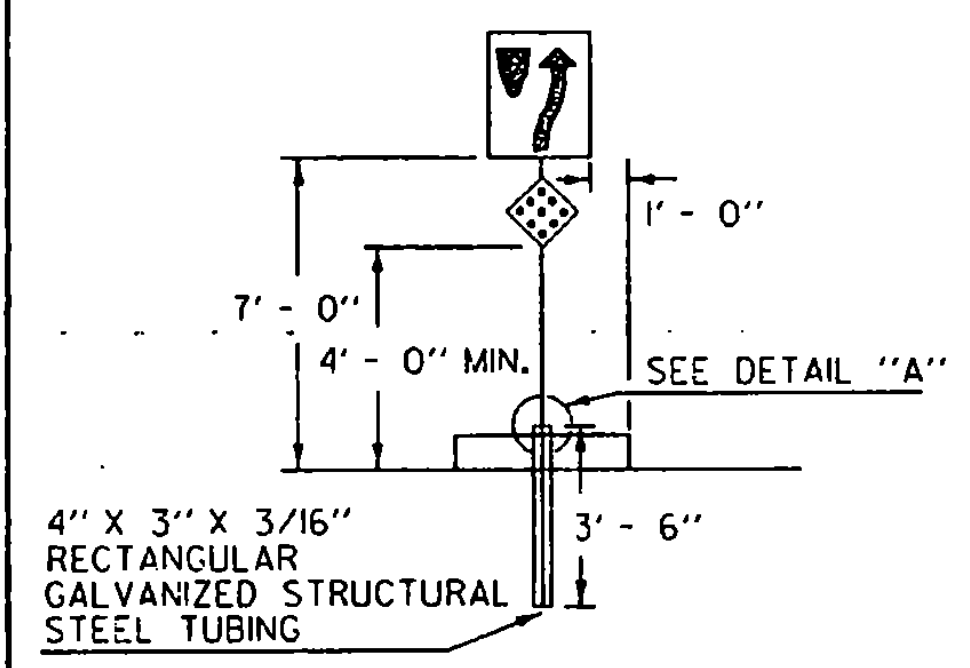
STANDARD E-120

/traf/std/stce120.dgn : stdel20.i



LEGAL LOAD LIMIT AND STOP SIGNS AT INTERSECTIONS WITH TOWN HIGHWAYS

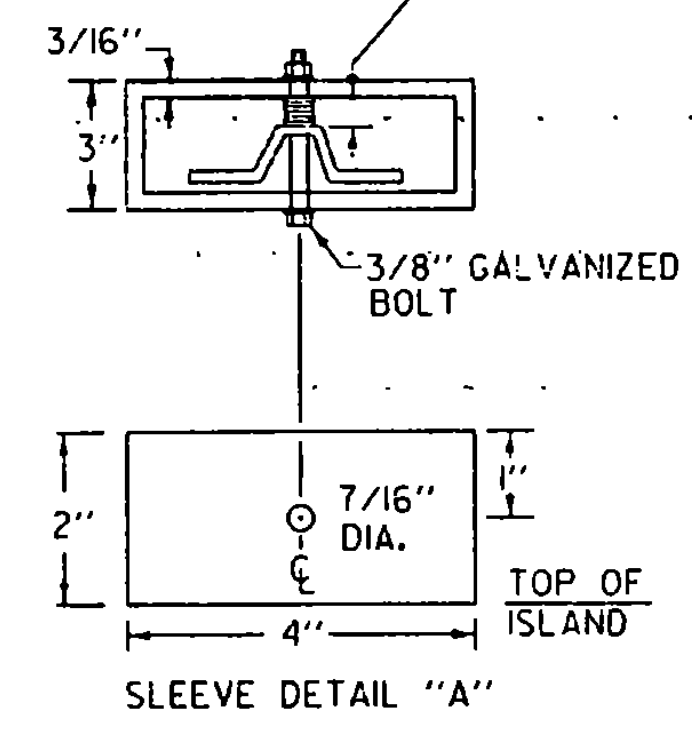
STOP SIGN SHALL BE PLACED ON DRIVERS RIGHT, MAINTAINING MAXIMUM VISIBILITY. CLEARANCE SHALL BE A MINIMUM OF 6' AND A MAXIMUM OF 50' FROM EDGE LINE OF INTERSECTING ROADWAY AND DOES NOT HAVE TO BE ADJACENT TO THE STOP BAR.



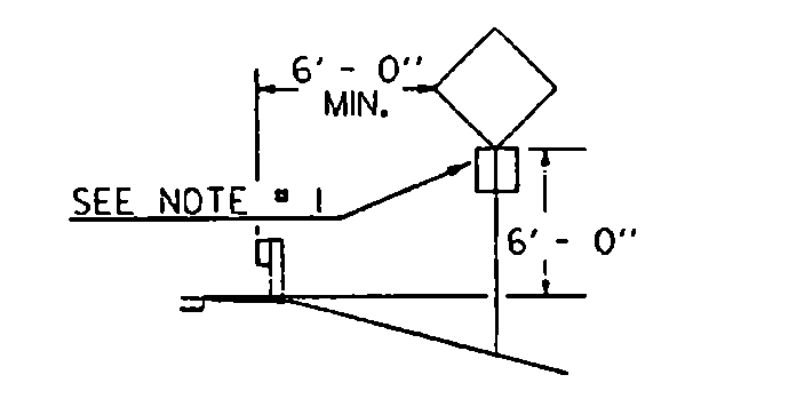
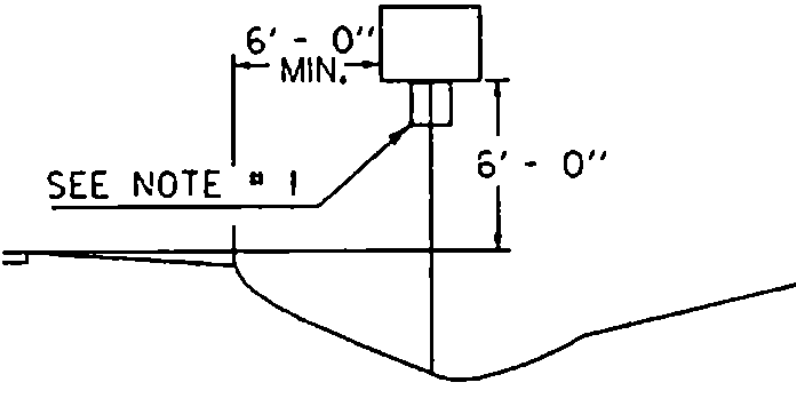
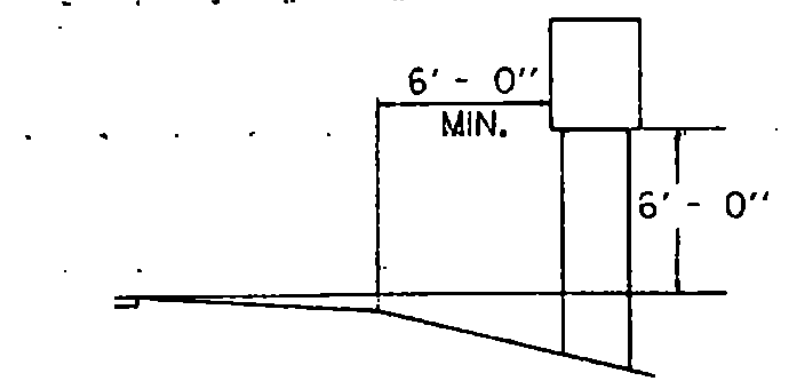
SIGNS ON MEDIAN ISLANDS IN THE LINE OF TRAFFIC

4" X 3" X 3/16" RECTANGULAR GALVANIZED STRUCTURAL STEEL TUBING

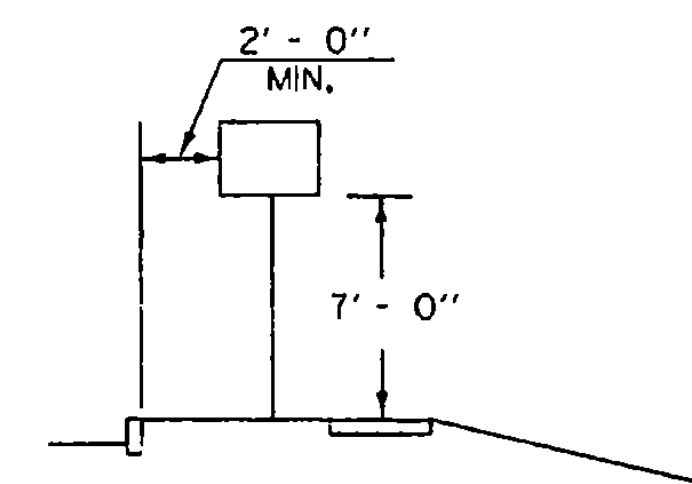
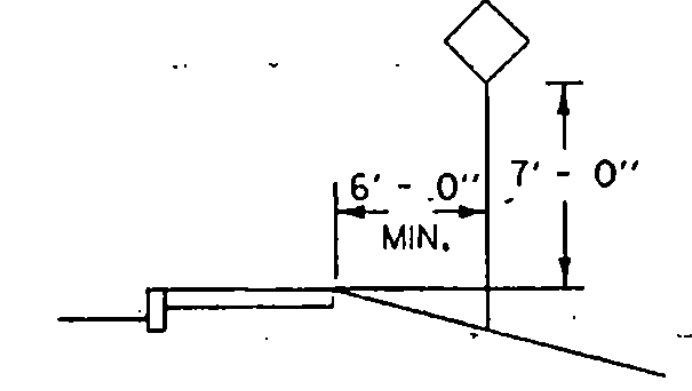
TO INSURE A TIGHT CONNECTION GALVANIZED WASHERS SHALL BE USED AS SPACERS.



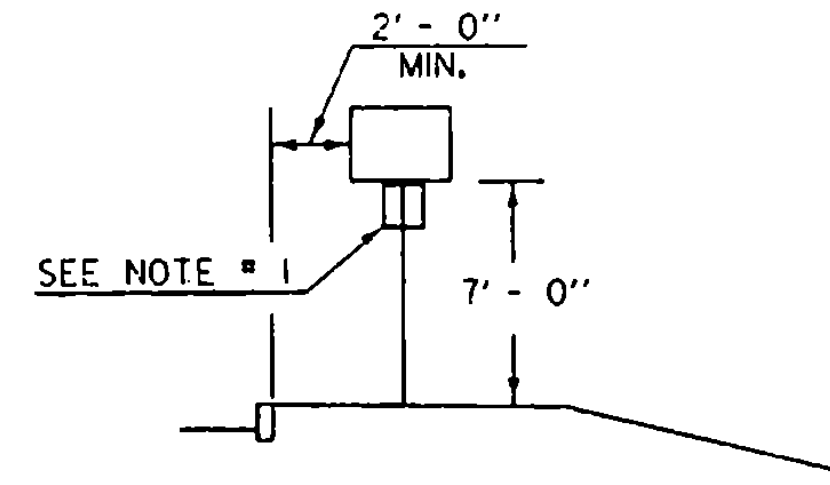
INCREASE VERTICAL CLEARANCE TO 7' IN AREAS OF FREQUENT ROADSIDE PARKING OR PEDESTRIAN ACTIVITY



RURAL



IF SUFFICIENT CLEARANCE IS NOT AVAILABLE BETWEEN CURB AND SIDEWALK MOUNT SIGN BEHIND SIDEWALK AS SHOWN AT TOP. CHECK FOR ADEQUATE R.O.W..



URBAN

NOTES:

1. IN BOTH RURAL AND URBAN LOCATIONS, IF A SECONDARY SIGN IS MOUNTED BELOW ANOTHER SIGN, THE MINIMUM CLEARANCE MAY BE REDUCED BY ONE FOOT.
2. IN RURAL AREAS WITH NO OR MINIMAL SHOULDER, THE LATERAL CLEARANCE TO THE EDGE OF A SIGN SHOULD BE A MINIMUM OF 12' FROM THE EDGE OF THE TRAVELED WAY.
3. ALSO SEE OTHER STANDARD SHEETS FOR MOUNTING CLEARANCE AND SPACING OF DESTINATION AND ROUTE MARKER ASSEMBLIES AND TOWN LINE SIGNS.

POST REFERENCE:
REFER TO THE DETAILS ON THE APPROPRIATE STANDARD DRAWING FOR INFORMATION CONCERNING THE PROPER MOUNTING OF SIGNS ON APPROPRIATE POSTS.

OTHER STDS. E-160 E-161 E-162 E-163 E-164 REQUIRED:

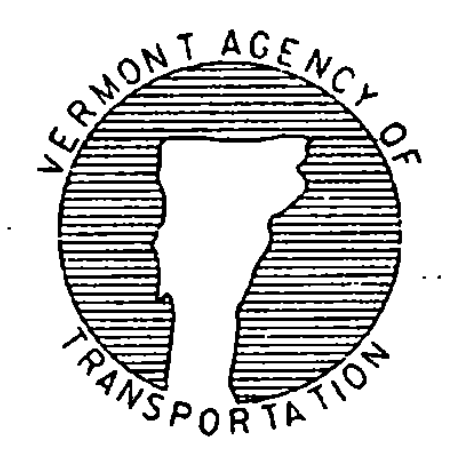
REVISIONS AND CORRECTIONS
JAN. 23, 1995 - DATE OF ORIGINAL ISSUE
AUG. 06, 1995 - VARIOUS MINOR NOTE REVISIONS

APPROVED

Stephen D. McArthur
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

**STANDARD SIGN PLACEMENT
CONVENTIONAL ROAD**



**STANDARD
E-121**

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

TEXT	SERIES	DIMENSIONS (*)
ADDISON	C	23.51
ALBANY	C	21.52
ALBURG	C	21.16
ANDOVER	C	25.00
ARLINGTON	B	24.51
ATHENS	C	20.37
AVERILL	C	22.00
BAKERSFIELD	B	28.00 (16)
BARNARD	C	25.35
BARNET	C	20.65
BARRE CITY	B	28.00 (2)
BARRE TOWN	B	28.00 (50)
BARTON	C	21.11
BELVIDERE	C	28.00 (14)
BENNINGTON	B	27.20
BENSON	C	21.14
BERKSHIRE	B	24.26
BERLIN	C	18.72
BETHEL	C	19.80
BLOOMFIELD	B	26.83
BOLTON	C	20.33
BRADFORD	C	28.00 (13)
BRAINTREE	C	28.00 (21)
BRANDON	C	25.33
BRATTLEBORO	B	28.00 (30)
BRIDGEWATER	B	28.00 (23)
BRIDPORT	C	28.00
BRIGHTON	C	26.67
BRISTOL	C	22.66
BROOKFIELD	B	26.64
BROWNINGTON	B	28.00 (38)
BRUNSWICK	C	25.54
BURKE	C	17.41
BUELS GORE	B	29.00 (8)
BURLINGTON	B	27.20
CABOT	C	17.05
CALAIS	C	18.47
CAMBRIDGE	C	24.83
CANAAN	B	20.91
CASTLETON	B	24.47
CAVENDISH	B	24.02
CHARLESTON	B	28.00 (4)
CHARLOTTE	C	24.47
CHELSEA	C	23.99
CHESTER	C	23.67
CHITTENDEN	B	25.51
CLARENDON	B	25.31
COLCHESTER	C	27.47
CONCORD	C	25.31
CORINTH	C	22.68
CORNWALL	C	28.00 (12)
COVENTRY	C	28.00 (2)
CRAFTSBURY	C	28.00 (11)
DANBY	C	18.00
DANVILLE	C	25.92
DERBY	C	17.59
DORSET	C	20.42
DOVER	C	17.26
DUMMERSTON	C	28.00 (14)
DUXBURY	C	25.57
EDEN	C	13.19
ENOSBURG	C	28.00 (7)
EAST HAVEN	C	28.00 (2)
E. MONTPELIER	B (4'')	28.00 (50)
ELMORE	C	21.18
ESSEX	C	16.95
FAIRFAX	C	22.49
FAIRFIELD	C	27.05
FAIR HAVEN	C	28.00
FAIRLEE	C	21.73
FAYSTON	C	24.00
FERRISBURG	C	24.35
FERRISBURG	C	27.04
FLETCHER	C	26.59
FRANKLIN	C	26.04

TEXT	SERIES	DIMENSIONS (*)
GEORGIA	C	23.07
GLOVER	C	20.81
GOSHEN	C	20.93
GLASTENBURY	B	28.00 (44)
GRAFTON	C	24.38
GRAND ISLE	B	28.00 (5)
GRANVILLE	C	28.00 (24)
GREENSBORO	B	28.00 (9)
GROTON	C	21.09
GUILDHALL	C	28.00 (23)
GUILFORD	C	26.44
HALIFAX	C	22.56
HANCOCK	C	24.91
HARDWICK	C	27.52
HARTFORD	C	28.00 (14)
HARTLAND	C	27.69
HIGHGATE	C	25.90
HINESBURG	B	24.41
HOLLAND	C	24.31
HUBBARDTON	B	28.00 (17)
HYDE PARK	B	27.71
IRA	C	6.44
IRASBURG	C	26.92
ISLE LA MOTTE	B (4'')	28.00 (34)
JAMAICA	C	23.49
JAY	C	9.86
JERICHO	C	22.66
JOHNSON	C	25.29
KIRBY	C	15.79
LANDGROVE	B	25.31
LEICESTER	C	28.00 (15)
LEMINGTON	B	24.04
LONDONDERRY	B (4'')	25.78
LOWELL	C	20.84
LUDLOW	C	21.72
LUNENBERG	B	25.06
LYNDON	C	20.76
MADSTONE	B	24.63
MANCHESTER	B	28.00 (16)
MARLBORO	C	28.00 (18)
MARSHFIELD	B	27.10
MENJON	C	21.64
MIDDLEBURY	B	27.9
MIDDLESEX	B	27.26
MIDDLETOWN SPR	B (4'')	28.00 (50)
MILTON	C	18.82
MONTGOMERY	B	28.00 (21)
MONTPELIER	B	25.67
MORETOWN	C	28.00 (23)
MORGAN	C	22.05
MORRISTOWN	B	28.00 (9)
MOUNT HOLLY	B	28.00 (50)
MOUNT TABOR	C	28.00 (50)
NEWARK	C	21.34
NEWBURY	C	25.68
NEWFANE	C	24.73
NEW HAVEN	B	27.11
NEWPORT CITY	B (4'')	28.00
NEWPORT TOWN	B (4'')	28.00 (25)
NORTH HERO	B	28.00 (12)
NORTHFIELD	B	26.36
NORTON	C	21.30
NORWICH	C	23.93
ORANGE	C	21.53
ORWELL	C	21.28
PANTON	C	21.11
PAWLET	C	20.46
PEACHAM	C	25.13
PERU	C	13.63
PITTSFIELD	C	28.00 (23)
PITTSFORD	C	28.00 (14)
PLAINFIELD	B	24.74
PLYMOUTH	C	28.00 (7)
POMFRET	C	24.47
POULTNEY	C	27.37

TEXT	SERIES	DIMENSIONS (*)
POMNAL	C	21.92
PROCTOR	C	24.38
PUTNEY	C	20.65
RANDOLPH	C	28.00 (10)
READING	C	22.84
READSBORO	B	25.95
RICHFORD	C	26.67
RICHMOND	C	27.61
RIPTON	C	19.11
ROCHESTER	B	24.65
ROCKINGHAM	B	28.03
ROXBURY	C	25.31
ROYALTON	C	27.45
RUPERT	C	20.75
RUTLAND CITY	B (4'')	26.59
RUTLAND TOWN	B (4'')	28.00 (13)
RYEGATE	C	23.88
ST. ALBANS CITY	B (4'')	28.00 (50)
ST. ALBANS TOWN	B (4'')	28.00 (50)
ST. GEORGE	B	27.01
ST. JOHNSBURY	B (4'')	28.00 (30)
SPLISBURY	B	25.13
SEASBURG	C	25.82
SHAFTSBURY	B	28.00 (14)
SHARON	C	21.55
SHEFFIELD	C	28.00 (10)
SHELBURNE	C	25.44
SHELDON	C	24.48
SHERBURNE	B	25.86
SHOREHAM	C	28.00 (20)
SHREWSBURY	B	28.00 (28)
SO. BURLINGTON	B (4'')	28.00 (27)
SOUTH HERO	B	28.00 (9)
SPRINGFIELD	B	28.00 (4)
STAMFORD	C	28.00 (6)
STARSBORO	B	28.64 (8)
STOCKBRIDGE	B	28.00 (21)
STOWE	C	17.73
STRAFFORD	C	25.39
STRATTON	C	26.67
SUDBURY	C	25.59
SUNDERLAND	C	26.00 (8)
SUTTON	C	20.14
SWANTON	C	25.14
THETFORD	C	27.31
TINMOUTH	C	26.73
TOPSHAM	C	25.39
TOWNSHEND	C	26.46
TROY	C	13.76
TUNBRIDGE	B	24.18
UNDERHILL	C	28.00 (23)
VERGENNES	B	25.06
VERNON	C	21.46
VERSHIRE	C	26.39
WAITSFIELD	B	25.39
WALDEN	C	21.18
WALLINGFORD	B	28.00 (34)
WALTHAM	C	24.67
WARDSBORO	B	26.94
WARREN	C	21.62
WARRENS GORE	B (4'')	28.00 (23)
WASHINGTON	B	28.00 (4)
WATERBURY	B	26.21
WATERFORD	B	25.59
WATERVILLE	B	26.15
WEATHERSFIELD	B (4'')	27.93
WELLS	C	17.34
WEST FAIRLEE	B (4'')	27.00
WESTFIELD	C	28.00 (19)
WEST HAVEN	B	28.00 (18)
WESTFORD	C	28.00 (10)
WESTMINISTER	B	28.00 (27)
WESTMORE	C	28.00 (21)
WESTON	C	21.51

TEXT	SERIES	DIMENSIONS (*)
WEST RUTLAND	B (4'')	28.00 (7)
WEST WINDSOR	B (4'')	28.00 (15)
WEYBRIDGE	B	25.11
WHEELLOCK	C	28.00 (7)
WHITTING	C	21.51
WHITTINGHAM	B	27.27
WILLIAMSTOWN	B (4'')	26.65
WILLISTON	C	28.00 (5)
WILMINGTON	C	26.84
WINDHAM	C	24.66
WINDSOR	C	23.93
WINHALL	C	23.49
WINDSOR	C	25.63
WOLCOTT	C	24.45
WOODBURY	B	24.77
WOODFORD	B	24.15
WOOSTOCK	B	26.52
WORCESTER	B	25.66
AVERYS GORE	B (4'')	26.35
BALTIMORE	B	24.09
BROOKLINE	B	24.20
GRANBY	B	21.78
HUNTINGTON	B	25.42 (20)
LEWIS	C	15.47
LINCOLN	C	22.45
MONKTON	C	25.30
SANDGATE	C	26.59 (20)
SOMERSET	C	26.79 (20)
STANNARD	C	26.70 (25)
VICTORY	C	22.90
WARNERS GRANT	B (4'')	28.60 (50)

THESE TOWNS ARE NOT INCLUDED IN THE ABOVE LIST BECAUSE THEY HAVE NO STATE HIGHWAYS, HOWEVER THE DETAILS ARE PROVIDED FOR INFORMATION PURPOSES:

ST. JOHNSBURY	B (4'')	28.00 (30)
SPLISBURY	B	25.13
SEASBURG	C	25.82
SHAFTSBURY	B	28.00 (14)
SHARON	C	21.55
SHEFFIELD	C	28.00 (10)
SHELBURNE	C	25.44
SHELDON	C	24.48
SHERBURNE	B	25.86
SHOREHAM	C	28.00 (20)
SHREWSBURY	B	28.00 (28)
SO. BURLINGTON	B (4'')	28.00 (27)
SOUTH HERO	B	28.00 (9)
SPRINGFIELD	B	28.00 (4)
STAMFORD	C	28.00 (6)
STARSBORO	B	28.64 (8)
STOCKBRIDGE	B	28.00 (21)
STOWE	C	17.73
STRAFFORD	C	25.39

NOTES:

- (*) REPRESENTS PERCENT OF REDUCTION IN LETTER TO LETTER SPACING.
- WORD TO WORD SPACING FOR MULTIPLE TEXT TOWN NAMES IS ADJUSTABLE TO ACCOMMODATE DIMENSION REQUIREMENTS.
- DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE VARIOUS MANUFACTURER'S LETTER WIDTHS.

MATERIALS

THE SIGN BASE MATERIAL SHALL BE HIGH DENSITY OVERLAIN PLYWOOD 5/8 INCH THICK THE REFLECTIVE MATERIAL SHALL BE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE TEXT SHALL BE CUT-OUT REFLECTORIZED LETTERS. ALL REFLECTIVE MATERIAL SHALL MEET THE MINIMUM REQUIREMENTS OF AASHTO TYPE II.

COLORS

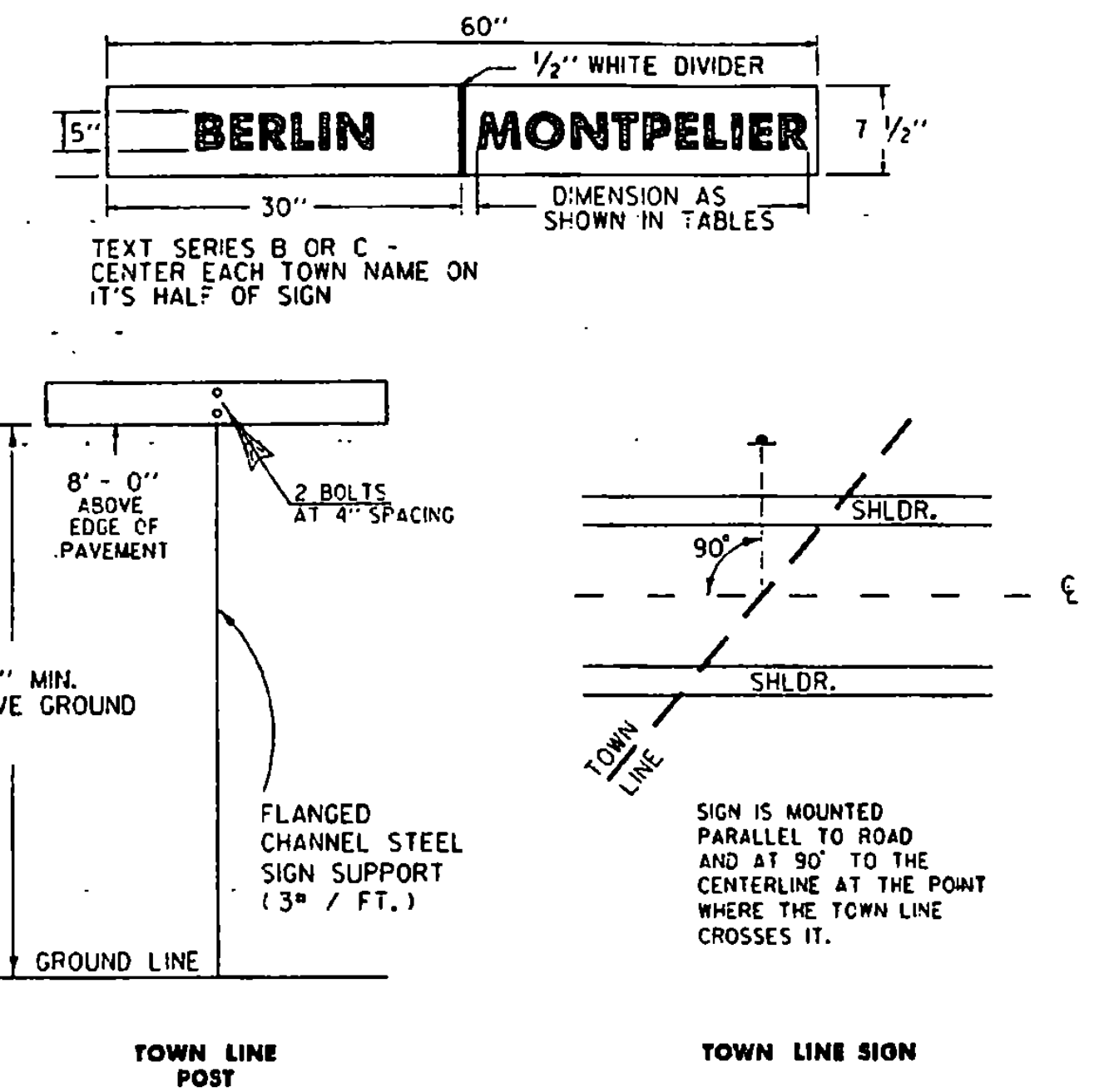
SIGNS SHALL HAVE A REFLECTORIZED WHITE OR SILVER TEXT ON A REFLECTORIZED GREEN BACKGROUND.

LETTERING

LETTERS AND DIGITS SHALL CONFORM WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS APPROVED BY THE NATIONAL JOINT COMMITTEE ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS

SIGNS SHALL MEET THE STATE SPECIFICATIONS FOR "TRAFFIC SIGNS". SEE THE APPROPRIATE STANDARD SHEETS FOR SIGN OFFSET PLACEMENT AND SIGN POST INFORMATION.



WHEN CROSSING COUNTY BOUNDARIES AN ADDITIONAL COUNTY LINE SIGN SHALL BE MOUNTED BELOW THE TOWN LINE SIGN.

COUNTY NAMES

TEXT	SERIES	DIMENSIONS
ADDISON CO.	C (4'')	28.00
BENNINGTON CO.	B (4'')	28.00 (30)
CALEDONIA CO.	B (4'')	27.62
CHITTENDEN CO.	B (4'')	28.00
ESSEX CO.	C	28.00
FRANKLIN CO.	B (4'')	25.04
GRAND ISLE CO.	B (4'')	28.00 (50)
LAMOILLE CO.	B (4'')	24.72
ORANGE CO.	B	27.59
ORLEANS CO.	B	28.00 (40)
RUTLAND CO.	B	28.00 (35)
WASHINGTON CO.	B (4'')	28.00 (50)
WINDHAM CO.	B	28.00 (40)
WINDSOR CO.	B	28.00 (40)

OTHER STDS. REQUIRED:



STANDARD E-124

REVISIONS AND CORRECTIONS

JAN. 23, 1989 - DATE OF ORIGINAL ISSUE
AUG. 08, 1995 - REARRANGED SHEET

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

APPROVED

Stephen D. MacCubbin
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

TOWN LINE SIGNS

/traf/std/stdel24.cgn : stdel24.l

TOWN	SERIES/TEXT DIMENSIONS		
	3"	4"	6"
NEW HAVEN	C 18.00	B 21.68	
N. HAVEN JCT.	C 18.00		
NEWBURY	C 15.43		
NEWFAINE	C 14.86		B 22.00
NEWPORT	C 15.02		
NEWPORT CTR.	C 18.00		
NORTH (W/SERIES (VILLAGE NAME))	C 11.08		
NORTH (W/SERIES (VILLAGE NAME))	C 13.90		
N. BENNINGTON	C 18.00		
N. CLARENDON	C 18.00		
N. CONCORD	C 18.00		
N. DORSET	C 17.75		
N. ENOSBURG	C 18.00		
N. FAIRFAX	C 18.00		
NORTHFIELD	C 18.00	B 21.07	
NORTHFIELD CTR.	C 22.00*		
NORTHFIELD FALLS	SEE NOTE A		
N. HARTLAND	C 18.00		
NORTH HERO	C 17.79		
N. HYDE PARK	C 18.00		
N. MONTPELIER	C 18.00		
N. PAWLET	C 17.77		
N. POWAL	C 18.00		
N. RANDOLPH	C 18.00		
NORTH RUPERT	C 18.00		
N. SHELDON	C 18.00		
N. SHELTON	C 18.00		
N. TROY	C 18.00		
N. TUNBRIDGE	C 18.00		
N. WESTMINSTER	C 22.00*		
N. WINDHAM	C 17.16		
NORTON	C 12.79		
NORWICH	C 14.37		
OLD			
OLD BENNINGTON	B 22.00*		
ORANGE	C 12.93		
ORLEANS	C 14.77		
ORWELL	C 12.78		
PASSUMPSIC	C 16.91		
PAWLET	C 12.29		
PERKINSVILLE	C 18.00		
PERCES	C 18.00		
PITTSFIELD COR.	C 17.85		
PITTSFIELD	C 22.00		
PITTSFORD	C 17.42		
PITTSFORD MILLS	B 22.00*		
PLAIN	C 18.00		
PLAINFIELD	C 17.05		
PLYMOUTH	C 22.00		
PLYMOUTH UNION	B 22.00*		
POINT	C 12.27		
POMPANOOSUC	B 18.00		
POND	C 11.23		
POST	C 10.70		
POST MILLS	C 18.00		
POULTNEY	C 16.44		
POWAL	C 13.17		
PROCTOR	C 14.65		
PROCTORSVILLE	B 18.00		
PUTNAMVILLE	B 17.84		
PUTNEY	C 12.41		
RANDOLPH	C 17.22		
RANDOLPH CTR.	C 18.00		
RAWSONVILLE	C 18.00		
READSBORO	C 18.00		
READSBORO FALLS	SEE NOTE A		
RICHFORD	C 16.02		
RICHMOND	C 16.59		
RICKER	C 15.01		
RICKER MILLS	B 18.00		
RIPTON	C 11.48		
RIVER	C 15.30		
ROBINSON	C 16.25		
ROCHESTER	C 18.00		
ROCKINGHAM	B 16.82		
ROCKY	C 13.84		
ROCKY DALE	B 17.91		
ROXBURY	C 15.21		
ROXBURY FLAT	C 18.00		
ROYALTON	C 16.49		
RUPERT	C 12.46		
RUTLAND	C 15.62		
RYEGATE	C 14.38		

TOWN	SERIES/TEXT DIMENSIONS		
	3"	4"	6"
ST. ALBANS	C 18.00	B 22.00	
ST. ALBANS BAY	C 18.00*		
ST. GEORGE	C 18.00		
ST. JOHNSBURY	C 22.00*	B 26.00*	
ST. JOHNSBURY CTR.	SEE NOTE A		
SAXTONS	C 19.86		
SAXTONS RIVER	B 22.00*		
SEARSBURG	C 15.99		
SEARSBURG	B 20.65		
SHAFTSBURY	C 18.00	B 22.00	
SHAFTSBURY CTR.	C 22.00*		
SHARON	C 12.95		
SHAWVILLE	C 17.78	B 20.99	
SHEFFIELD	C 17.26		
SHELBURNE	C 18.00		
SHELDON	C 19.60		
SHELDON JCT.	C 18.00		
SHERBURNE	C 18.00	B 20.68	
SHERBURNE CTR.	C 18.00		
SHOREHAM	C 17.69		
SIMONSVILLE	C 17.31		
SIMPSONVILLE	C 18.00		
SOUTH (W/SERIES (VILLAGE NAME))	C 10.93		
SOUTH (W/SERIES (VILLAGE NAME))	C 13.73		
SOUTH ALBURG	C 18.00		
SOUTH BARRE	C 18.00		
S. BURLINGTON	C 18.00		
S. DORSET	C 17.75		
S. DURHAM	C 17.69		
SOUTH HERO	C 17.68		
S. HINESBURG	C 18.00		
LONDONDERRY	C 18.00		
NEWMURY	C 17.57		
NORTHFIELD	C 18.00		
RANDOLPH	C 18.00		
ROYALTON	C 18.00		
SHAFTSBURY	C 22.00*		
STARKSBORO	C 22.00*		
STRAFFORD	C 18.00		
TUNBRIDGE	C 18.00		
SOUTH VERNON	C 18.00		
SOUTH WALDEN	C 18.00		
S. WALLINGFORD	C 22.00*		
S. WOODSBURY	C 18.00		
S. WOODSTOCK	C 18.00		
SPRINGFIELD	C 17.02	B 22.00	
SPRINGS	C 18.57		
STAMFORD	C 17.05		
STARKSBORO	C 17.17		
STATION	C 17.21		
STEVENS	C 18.98		
STEVENS MILLS	B 18.00		
STOCKBRIDGE	B 17.85		
STONE	C 14.18	C 21.29	
STRAFFORD	C 20.29		
SUDBURY	C 15.37	B 22.00	
SWANTON	C 15.1	B 22.00	
TAFTS	C 12.70		
TAFTS CORNER	C 18.00		
TAFTSVILLE	B 20.10		
TALCVILLE	C 16.93		
TARBELLVILLE	C 22.00		
THE FORD	C 21.86		
THE FORD CTR.	B 18.00		
THE FORD HILL	C 18.00		
TINMOUTH	C 16.06		
TOPSHAM	C 21.40		
TOWNSHEND	C 18.00		
TROY	C 8.270		
TUNBRIDGE	C 18.00		
TYSON	C 10.20	C 20.40	
UNDERHILL	C 17.91		
UNDERHILL FLATS	B 22.00*		
UNION	C 18.00		
VERGENNES	C 12.80		
VERNON	C 17.18	B 20.52	
VERSHIRE	C 15.85		
VILLAGE	C 17.60		
WATERVILLE	C 18.00		
WAITS	C 12.48		
WAITS RIVER	C 18.00		
WALDEN	C 12.72	C 20.63	
WALDEN STA.	B 18.00		

* ADJUST BORDER TO CENTER TEXT AND MILEAGE

TOWN	SERIES/TEXT DIMENSIONS		
	3"	4"	6"
WALLACE		C 19.31	
WALLACE POND	B 22.00*		
WALLINGFORD	C 18.00		
WALTHAM	C 14.99		
WARDSBORO	C 18.00	B 21.54	
WARDSBORO CTR.	C 22.00*		
WASHINGTON	C 16.98		
WATERBURY	C 18.00	B 22.00	
WATERVILLE	C 18.00	B 20.95	
WEATHERSFIELD	C 18.00	B 26.00*	
WEATHERSFIELD BOW	SEE NOTE A		
WELLS	C 10.41	C 13.87	C 18.35
WELLS RIVER	C 18.00		
WELLS (W/SERIES (VILLAGE NAME))	B 8.990		
WEST (W/SERIES (VILLAGE NAME))	C 11.20		
W. ADDISON	C 18.00		
W. ARLINGTON	C 18.00		
W. BERKSHIRE	C 18.00		
WEST BURLIN	C 18.00		
W. BRAINTREE	C 18.00		
W. BRATTLEBORO	C 22.00*		
W. BRIDGEWATER	C 22.00*		
WEST BURKE	C 18.00		
W. CHARLESTON	C 22.00*		
W. CORNWALL	C 18.00		
W. DANVILLE	C 17.78		
WEST DOVER	C 17.94		
W. ENOSBURG	C 18.00		
WEST FAIRLEE	C 17.62		
WESTFIELD	C 17.19	C 22.00	
WESTFORD	C 18.00		
WEST GROTON	C 18.00		
W. HARTFORD	C 18.00		
WESTMINSTER	C 18.00	B 22.00	
WESTMORE	C 17.62	C 22.00	
WESTON	C 12.92	C 17.21	
WEST PAWLET	C 18.00		
W. RUPERT	C 18.00		
W. RUTLAND	C 17.25		
W. SWANTON	C 17.98		
W. TOPSHAM	C 17.51		
W. TOWNSHEND	C 18.00		
W. WARDSBORO	C 22.00*		
W. WOODSTOCK	C 18.00		
WEYBRIDGE	C 22.00	C 22.00	
WEYBRIDGE HILL	B 22.00*		
WHEELOCK	C 17.07	C 22.00	
WHITE RIVER	C 18.00	C 22.00	
WH. RIVER JCT.	B 18.00		
WHITING	C 12.92	C 17.22	B 21.18
WHITINGHAM	C 18.00	C 21.82	
WILDER	C 11.73	C 15.63	C 22.00
WILLIAMSTOWN	C 18.00	C 26.00*	
WILLISTON	C 17.02	C 22.00	
WILMINGTON	C 18.00	C 21.47	
WINDHAM	C 19.75		
WINDSOR	C 14.37	C 19.16	B 22.00
WINDSOR I	C 15.39	C 20.51	B 22.00
WOLCOTT	C 14.68	C 19.55	B 22.00
WOODSBURY	C 18.00	C 22.00	
WOODFORD	C 17.91	C 22.00	
WOODSTOCK	C 18.00	C 21.20	
WORCESTER	C 18.00	C 20.52	

NOTE A

THESE TEXTS MUST BE REDUCED TO 2" SERIES B:

NORTHFIELD FALLS	17.79
READSBORO FALLS	18.00
ST. JOHNSBURY CTR.	18.00
WEATHERSFIELD BOW	18.00

TEXT LAYOUT DIMENSIONS ARE BASED ON THE "LETTER & NUMERAL WIDTHS AND SPACE" TABLES FOUND IN THE "STANDARD HIGHWAY SIGNS" BOOKLET. 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 VAOT'S TRAFFIC AND SAFETY DIVISION, BEFORE FABRICATION.

MATERIALS

THE SIGN BASE MATERIALS USED FOR THE SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING OF THE MINIMUM THICKNESS NOTED.

FLAT SHEET ALUMINUM	0.080"
HIGH DENSITY OVERLAID PLYWOOD	1/2"
GALVANIZED FLAT SHEET STEEL	16 GAGE

THE REFLECTIVE MATERIAL SHALL BE A SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE TEXT AND BORDER SHALL BE CUT-OUT REFLECTORIZED LETTERS. ALL REFLECTIVE SHEETING SHALL MEET THE MINIMUM REQUIREMENTS OF AASHTO TYPE II.

COLORS

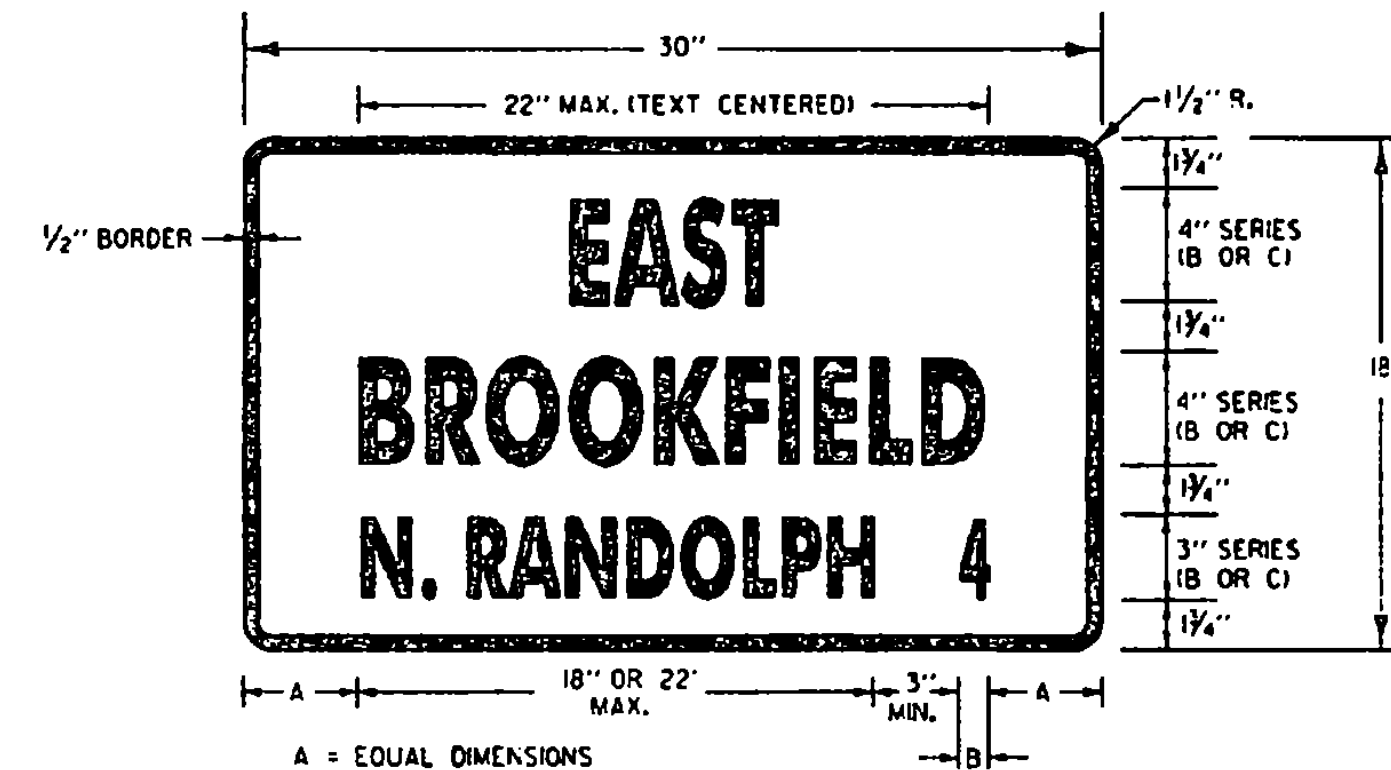
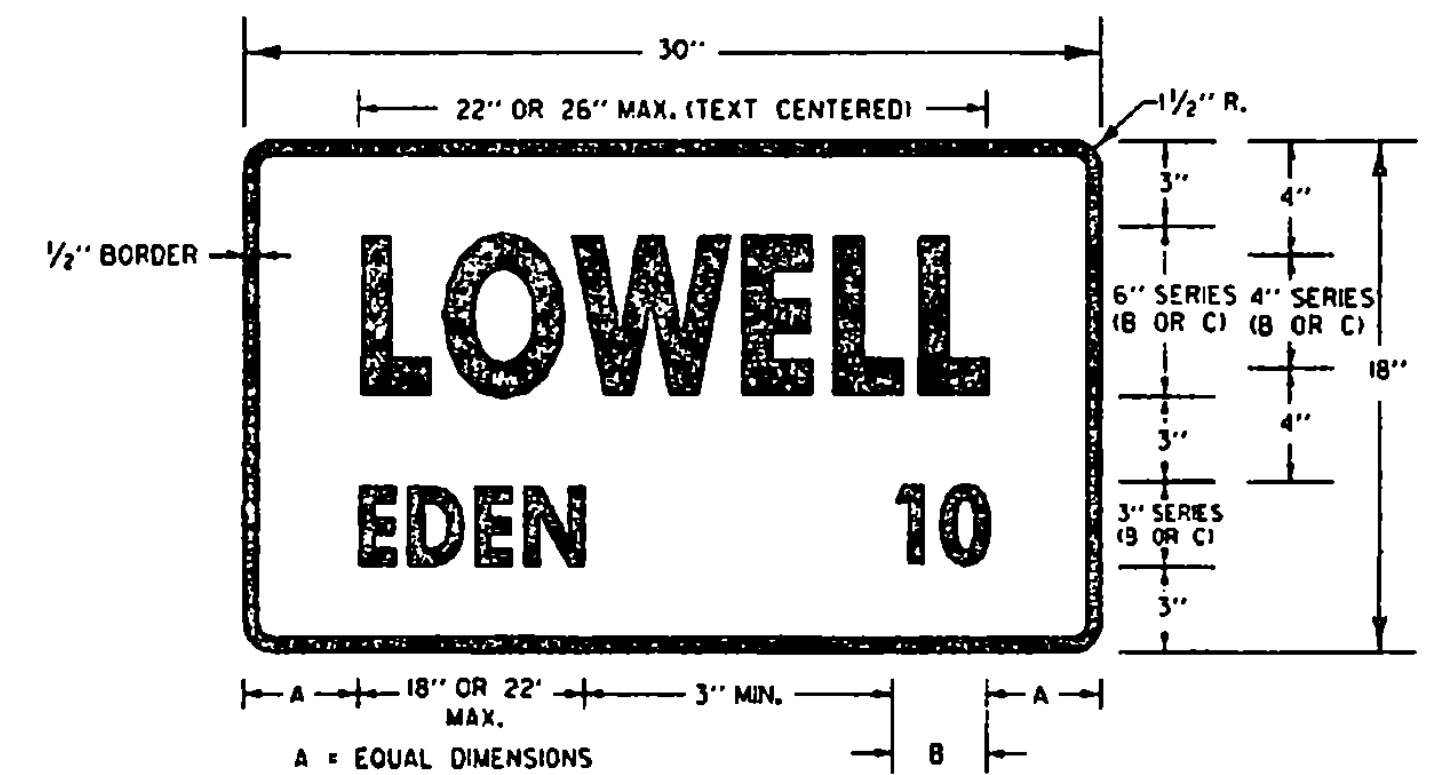
SIGNS SHALL HAVE A REFLECTORIZED WHITE OR SILVER TEXT AND BORDER ON A REFLECTORIZED GREEN BACKGROUND.

LETTERING

LETTERS AND DIGITS SHALL CONFORM WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS APPROVED BY THE NATIONAL JOINT COMMITTEE ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS

SIGNS SHALL MEET THE STATE SPECIFICATIONS FOR "TRAFFIC SIGNS". SEE THE APPROPRIATE STANDARD SHEETS FOR SIGN OFFSET PLACEMENT AND POST INFORMATION.



REVISIONS AND CORRECTIONS

OCT. 21, 1992 - DATE OF ORIGINAL ISSUE
AUG. 08, 1995 - MINOR NOTE REVISIONS

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

APPROVED

Samuel O. McAllister
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

VILLAGE SIGNS
N - W

**OTHER STDS.
REQUIRED:**

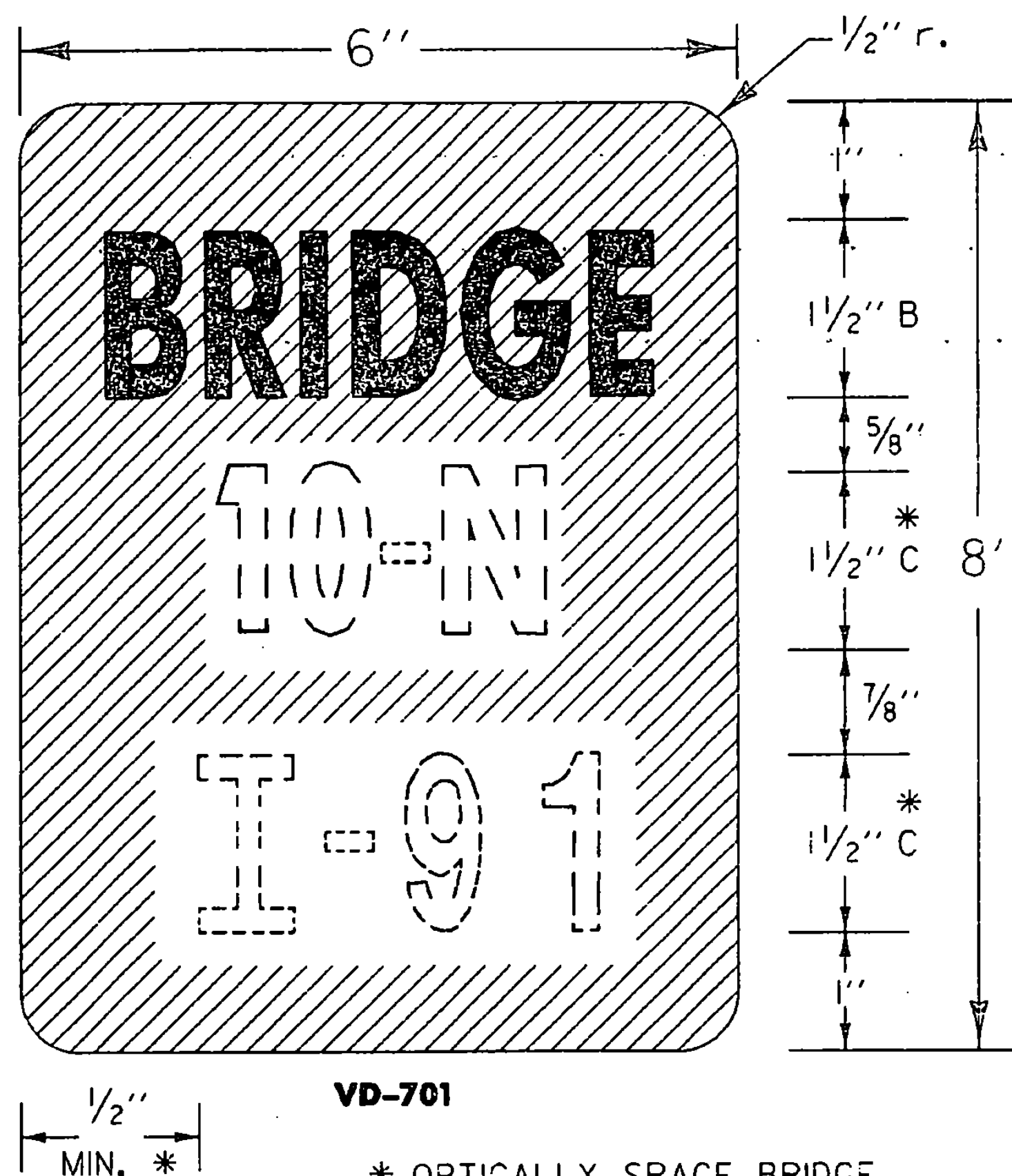
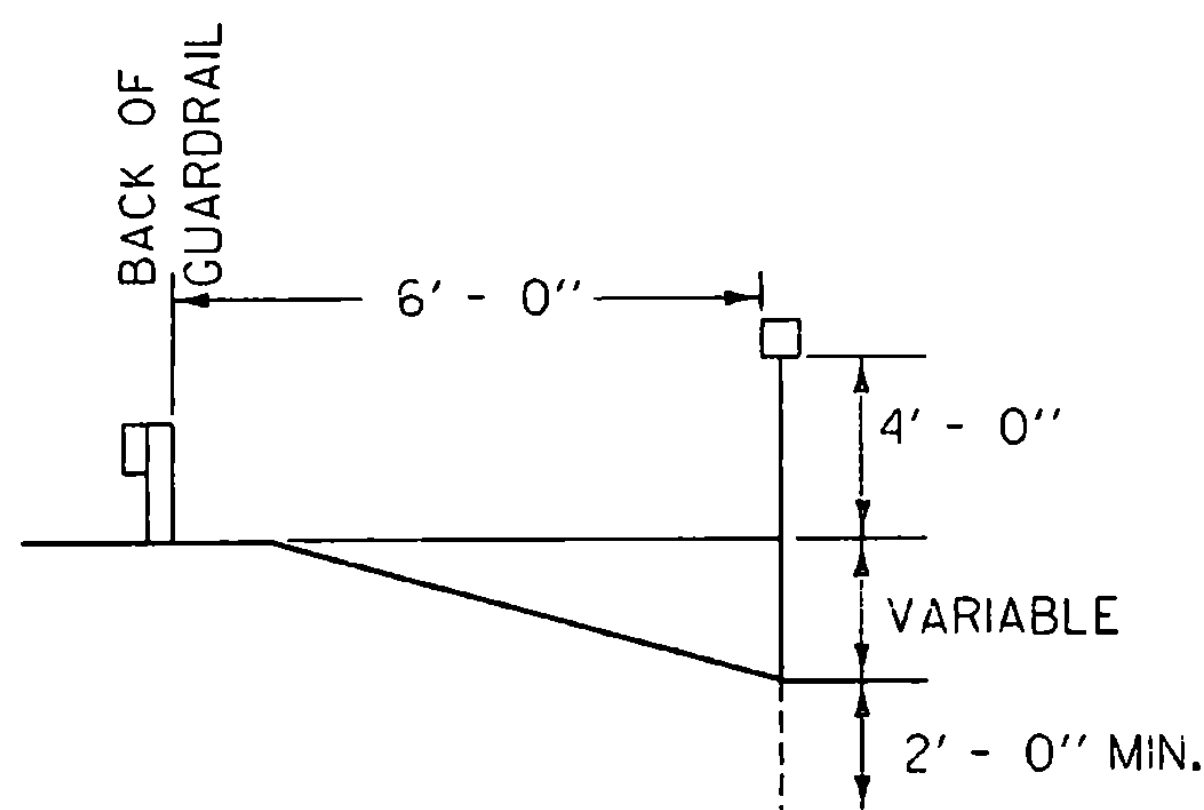
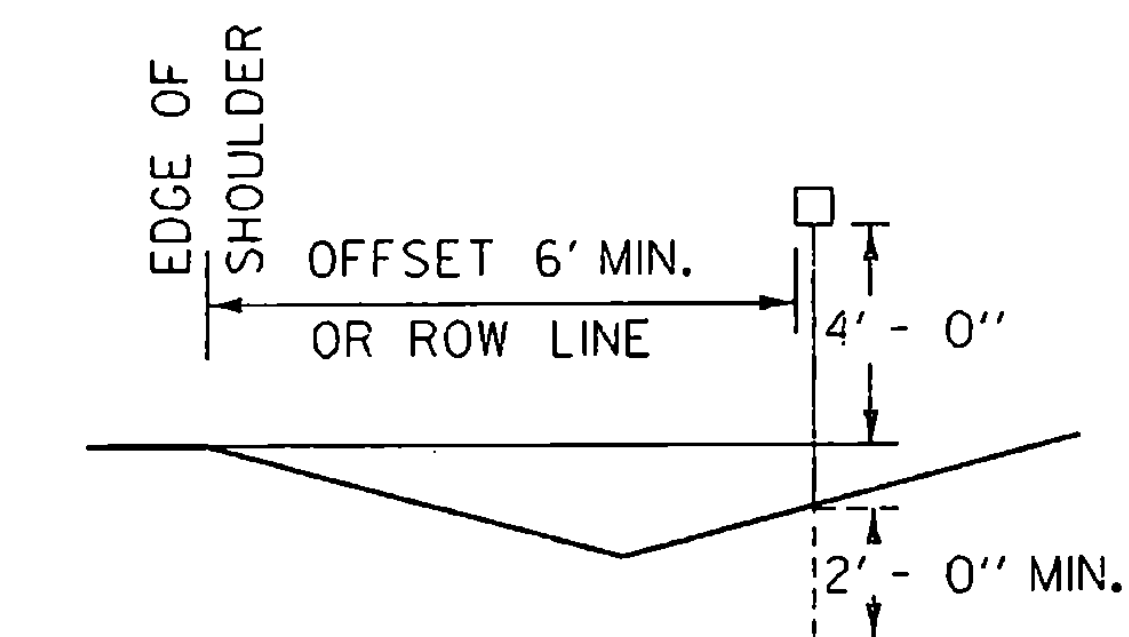


STANDARD
E-128 B

I-91
 ← 2" →

HYPHENATED WORD DETAIL

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



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

NOTES:

GENERAL:
 DOTTED LINES AND NUMERALS INDICATE TEXT THAT VARIES.

PAYMENT:
 BRIDGE PLAQUES SHALL BE PAID AS TRAFFIC SIGNS, TYPE 'A',
 AND POSTS PAID AS FLANGED CHANNEL STEEL SIGN POSTS.

MATERIAL:
 THE SIGN BASE MATERIAL SHALL BE 0.04" FLAT SHEET ALUMINUM.

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

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

POSTS:
 FLANGED CHANNEL STEEL 2"/FT POSTS SHALL BE USED WHEN THE POST LENGTH
 EXCEEDS 7 FEET. FOR LENGTH OF 7 FEET OR LESS, A 1.12"/FT STEEL SIGN POST
 SHALL BE USED.

**OTHER SYDS.
 REQUIRED:**

REVISIONS AND CORRECTIONS
 DEC. 17, 1989 - DATE OF ORIGINAL ISSUE
 AUG. 08, 1995 - MISC NOTE REVISIONS

APPROVED

Sandra D. MacArthur
 DIRECTOR OF ENGINEERING

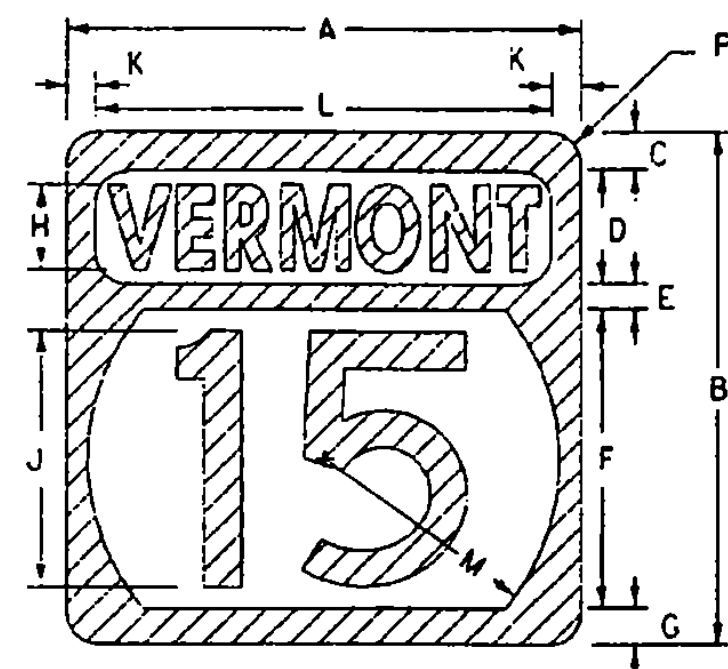
David A. Ross
 TRAFFIC AND SAFETY ENGINEER

BRIDGE NUMBER PLAQUE

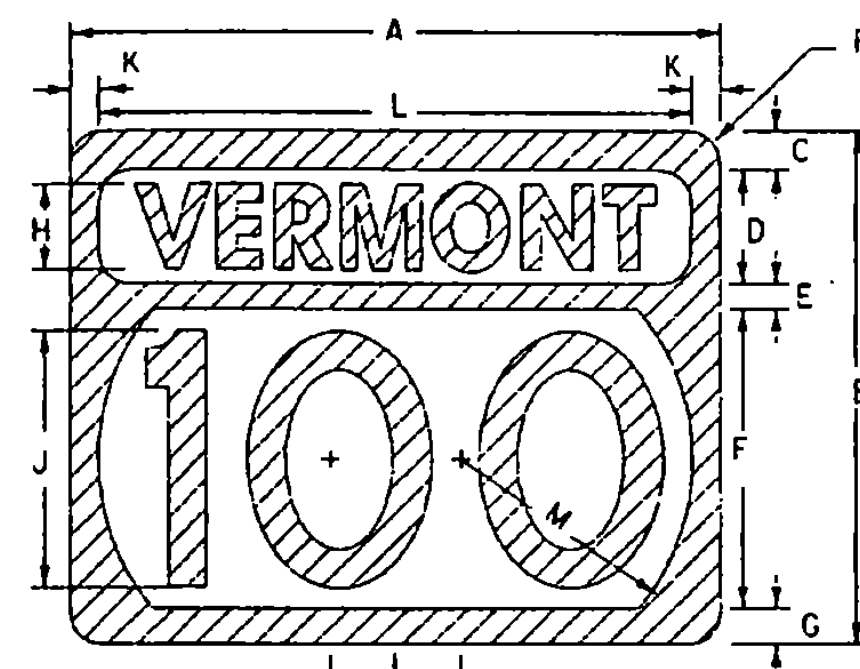


**STANDARD
 E-134**

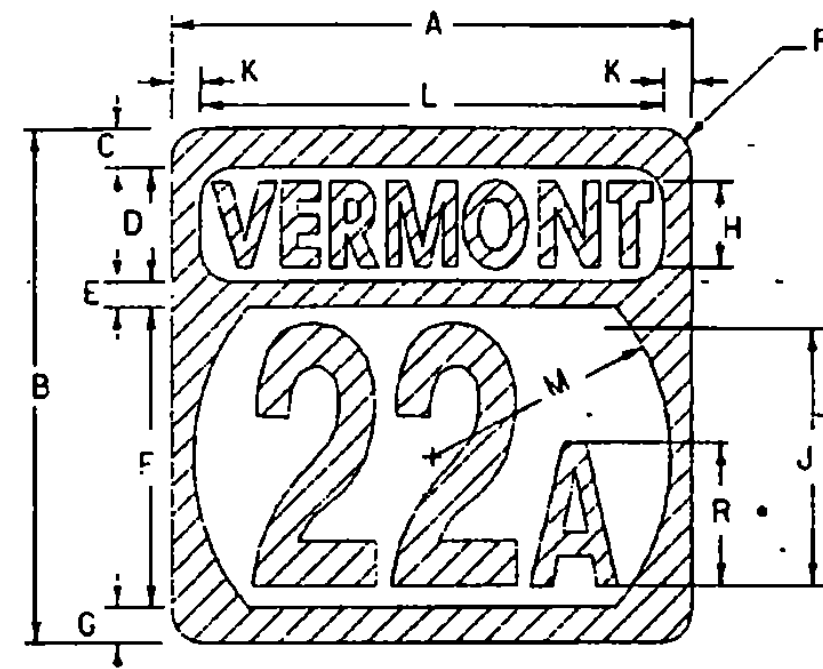
APPROVED FOR THIS PROJECT
 AND/OR DESIGN IMPLEMENTATION,
 FHWA FINAL APPROVAL PENDING.



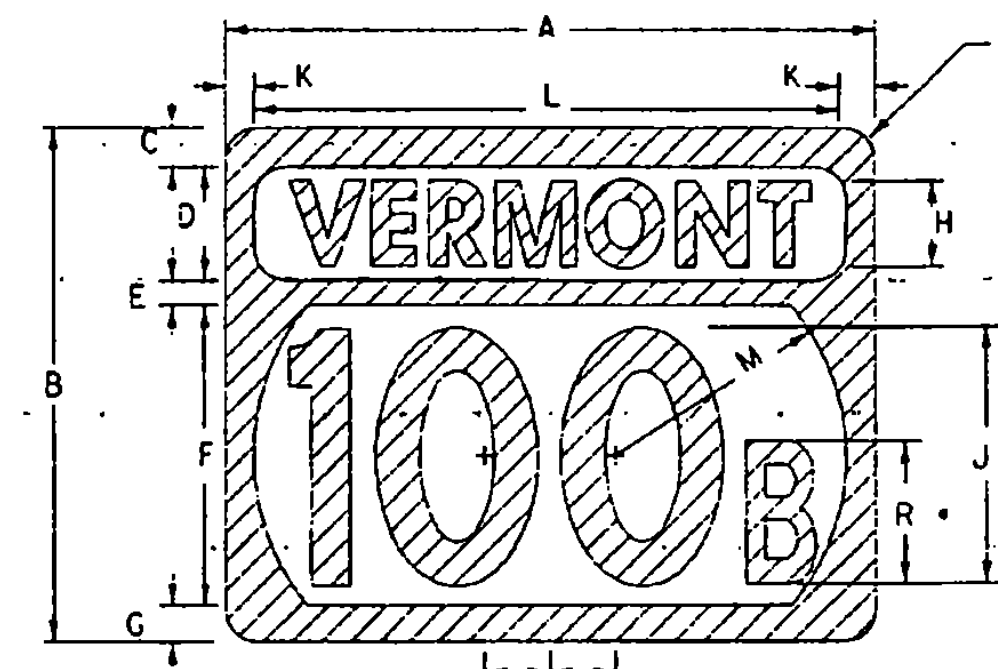
1 OR 2 DIGIT STATE ROUTE MARKER



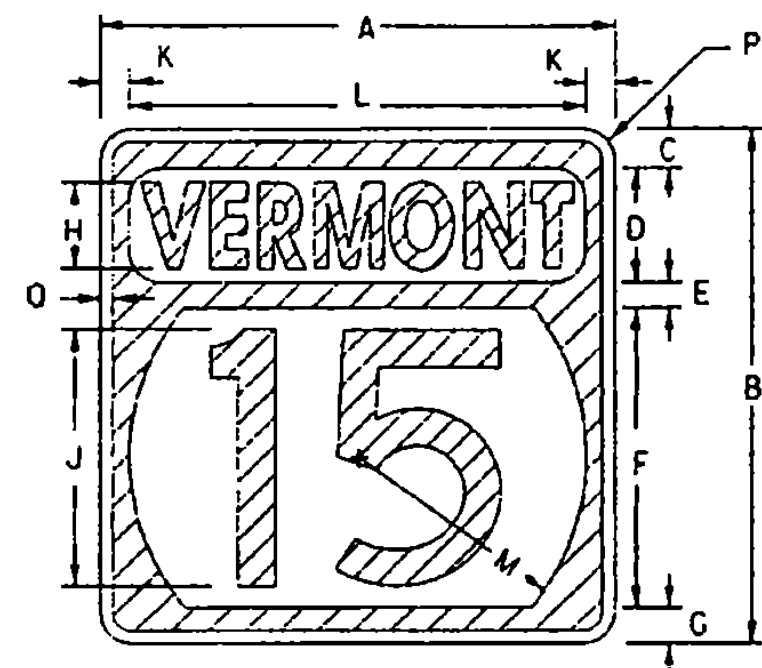
3 DIGIT STATE ROUTE MARKER



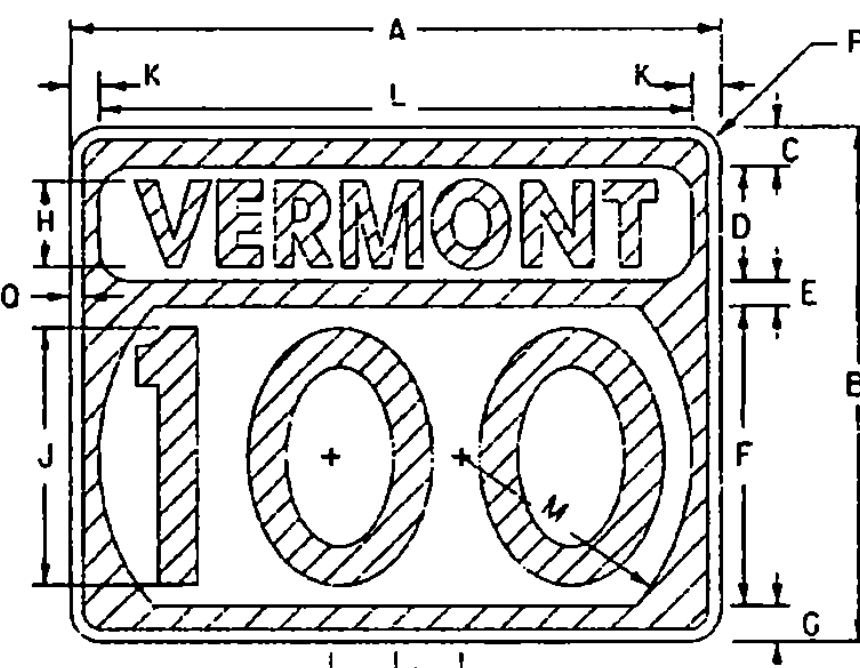
1 OR 2 DIGIT ALTERNATE STATE ROUTE MARKER



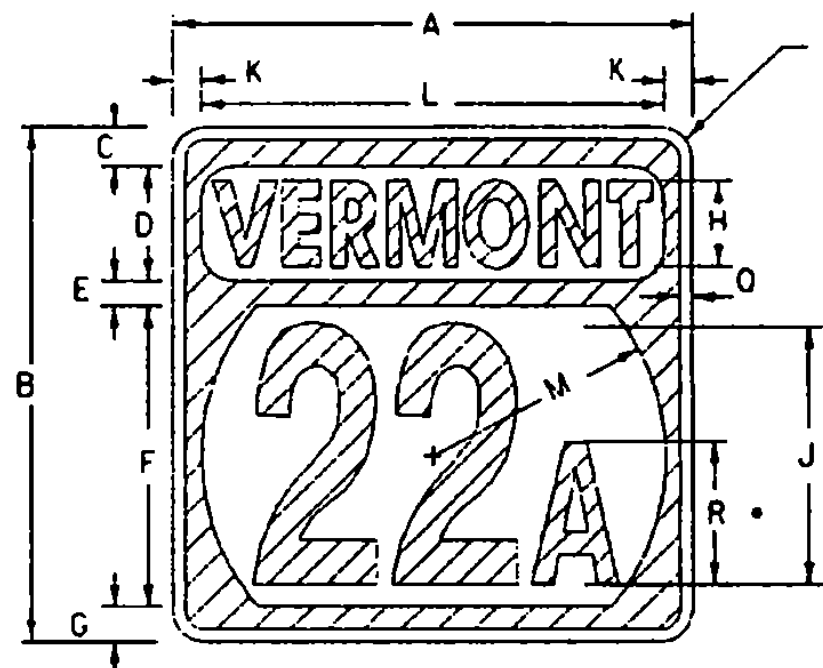
3 DIGIT ALTERNATE STATE ROUTE MARKER



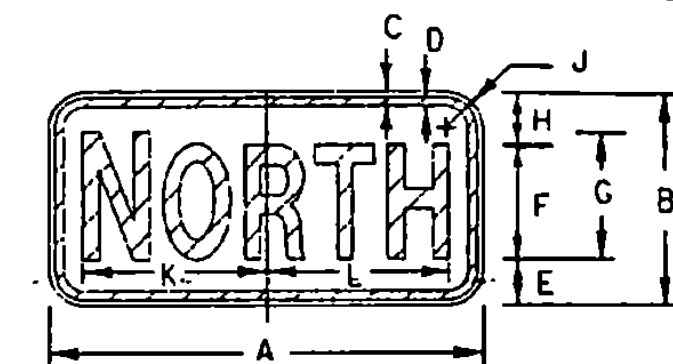
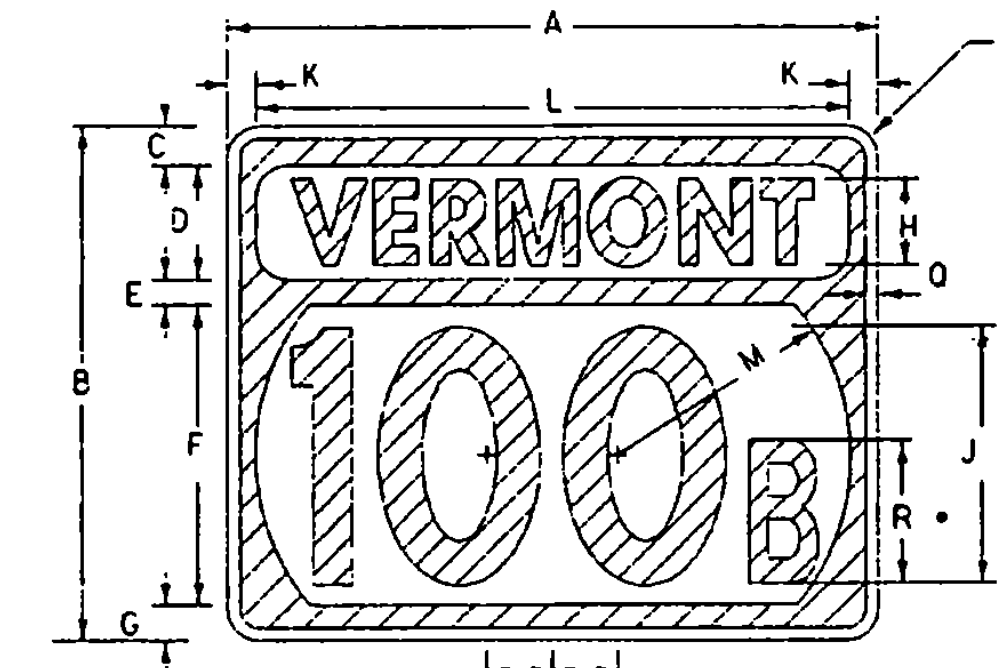
STATE ROUTE MARKER FOR GUIDE SIGN USE. (INTERSTATE TYPICAL)



ALTERNATE ROUTE SIGNS: OPTICALLY SPACE NUMERALS ABOUT VERTICAL CENTERLINE AND REDUCE SPACING AS NECESSARY FOR EACH ROUTE



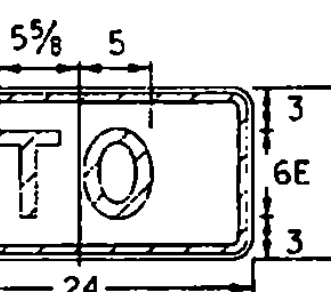
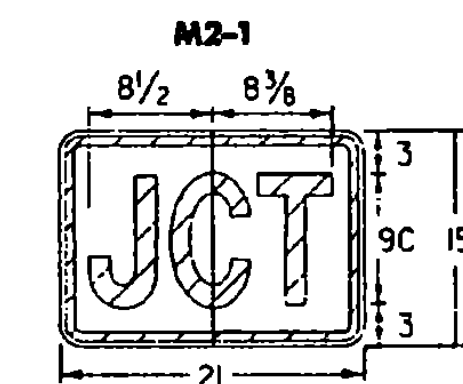
ALTERNATE STATE ROUTE MARKER FOR GUIDE SIGN USE. (INTERSTATE TYPICAL)



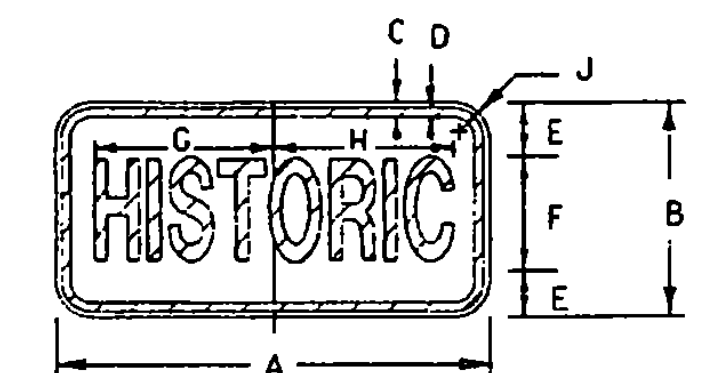
M3-1 M3-3 M3-2 M3-4

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	M
MIN. & STD.	24	12	3/8	3/8	2 3/4	6C	7C	3/4	1 1/2	10 1/4	10 1/4	10 1/4
SPECIAL	30	15	3/8	3/8	3 1/4	8C	9C	3/4	1 1/2	12 3/4	12 3/4	12 3/4

CARDINAL DIRECTION MARKER



M4-5 TRAILBLAZER



SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	K
MIN. & STD.	24	12	3/8	3/8	3 1/2	5B	10 1/8	9 1/8	1 1/2	
SPECIAL	30	15	3/8	3/8	4	7B*	12 3/8	12 3/8	1 1/2	

* REDUCE SPACING 35%

MATERIALS

THE SIGN BASE MATERIAL MAY BE ANY OF THE FOLLOWING, WITH THE MINIMUM THICKNESSES AS NOTED:

FLAT SHEET ALUMINUM
 LESS THAN 24" X 24" 0.060"
 WHEN USED ON GUIDE SIGNS 0.080"
 24" X 24", 30" X 24" 0.080"
 36" X 36", 45" X 36" 0.100"

GALVANIZED FLAT SHEET STEEL
 LESS THAN 24" X 24" 18 GAGE
 WHEN USED ON GUIDE SIGNS 18 GAGE
 24" X 24", 30" X 24" 16 GAGE
 36" X 36", 45" X 36" 14 GAGE

THE REFLECTIVE MATERIAL SHALL BE WHITE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND. THE TEXTS MAY BE LETTERING FILM, SILK SCREENED, OR HAND PAINTED.

COLORS

COLORS FOR GUIDE USE: TEXT AND SHIELD - GREEN (REFL.) BACKGROUND AND BORDER - WHITE (REFL.)
 STATE ROUTE MARKERS SHALL HAVE REFLECTIVE GREEN TEXT AND BORDERS ON REFLECTORIZED WHITE BACKGROUNDS.
 GREEN AREAS ARE INDICATED BY SINGLE LINE CROSSHATCHING

LETTERING

LETTERS AND DIGITS SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" ADOPTED BY THE U.S. DEPARTMENT OF TRANSPORTATION AND FHWA.

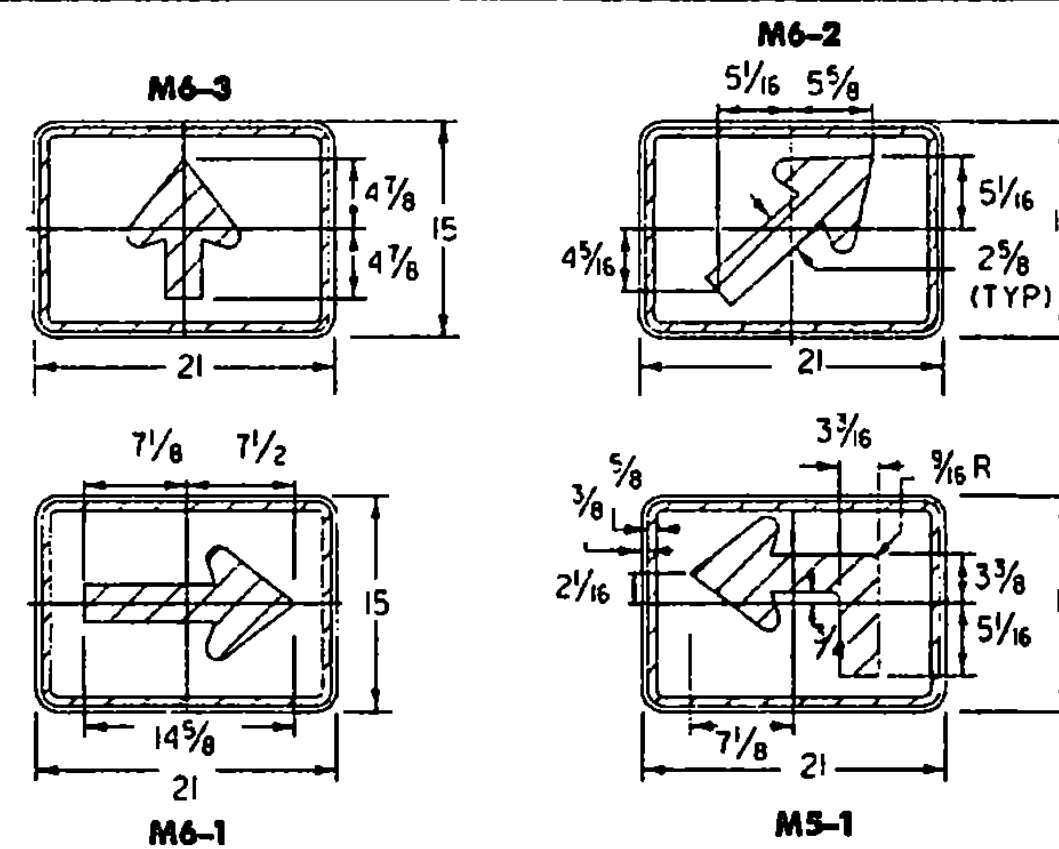
SPECIFICATIONS

STATE ROUTE MARKERS AND AUXILIARY ROUTE MARKERS SHALL MEET THE STANDARD STATE SPECIFICATIONS FOR TRAFFIC SIGNS.

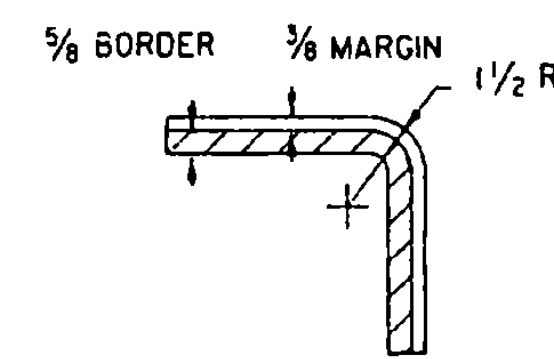
DESIGNS

THE DESIGNS OF STATE ROUTE MARKERS AND AUXILIARY MARKERS SHALL CONFORM WITH THE REQUIREMENTS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" ADOPTED BY THE U.S. DEPARTMENT OF TRANSPORTATION AND FHWA.

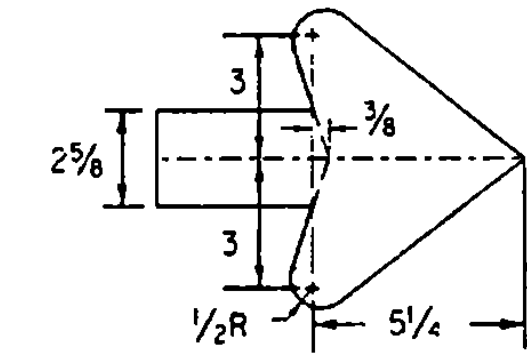
SIGN	DIMENSIONS (INCHES)															
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	O	R
1,2-digits	24	24	1 1/2	6	1	14	1 1/2	4C	12D	1	22	11	-	1 1/2	1/2	7B
1,2-digits	36	36	2 3/8	8	1 3/4	21	2 3/8	6C	18D	2	32	16 1/2	-	2 1/4	3/8	10B
3.-digits	30	24	1 1/2	6	1	14	1 1/2	4D	12D	1	28	11	3	1 1/2	1/2	7B
3.-digits	45	36	2 3/8	8	1 3/4	21	2 3/8	6D	18D	2	41	16 1/2	4 1/2	2 1/4	3/8	10B



DIRECTION ARROW OR ADVANCE TURN ARROWS



TYPICAL RADIUS DETAIL



TYPICAL ARROW DETAIL

(ALL DIMENSIONS IN INCHES)

REVISIONS AND CORRECTIONS
 AUG. 08, 1995 - DATE OF ORIGINAL ISSUE

APPROVED

Stephen A. MacArthur
 DIRECTOR OF ENGINEERING

David A. Rorr
 TRAFFIC AND SAFETY ENGINEER

STATE ROUTE MARKER SIGN DETAILS

OTHER STDS. REQUIRED:



STANDARD E-136 B

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

MILEMARKER INFORMATION

IN ORDER TO PROVIDE FOR AN ACCURATE SYSTEM OF LOCATION, MILEMARKERS ARE INSTALLED ALONG U.S. AND STATE HIGHWAYS, CLASS I TOWN HIGHWAYS, FEDERAL AID PRIMARY AND FEDERAL AID SECONDARY HIGHWAYS.

THE FOLLOWING INFORMATION IS PROVIDED FOR INSTALLATION GUIDANCE.

MILEMARKERS WILL NORMALLY BE INSTALLED AT EACH 0.20 MI INTERVAL, ALTERNATING FROM ONE SIDE OF THE ROAD TO THE OTHER, THUS HAVING A SIGN FACING TRAFFIC EACH 0.40 MILE. A MILEMARKER WILL ALSO BE INSTALLED AT EACH INTERSECTION, ON THE POST WITH THE STOP SIGN. (MILEMARKER TO BE PLACED PARALLEL TO MAINLINE VISIBLE TO TRAFFIC.) ANY MILEMARKER LOCATION FALLING WITHIN 0.05 MI. OF AN INTERSECTION WILL BE OMITTED. IF A NORMAL MILEMARKER LOCATION FALLS WITHIN 50' OF AN EXISTING HIGHWAY SIGN, THE MILEMARKER WILL BE INSTALLED ON THE EXISTING POST. WHEN NORMAL LOCATION OF A MILEMARKER IS UNDESIRABLE, I.E. ON A LAWN, DRIVEWAY, LEDGE, ETC., AN ATTEMPT WILL BE MADE TO LOCATE IT ACROSS THE ROAD. IF NO SUITABLE LOCATION CAN BE FOUND WITHIN 50' OF THE NORMAL LOCATION ON EITHER SIDE OF THE ROAD, IT MAY BE OMITTED. IF A NORMAL MILEMARKER LOCATION FALLS WITHIN 50 FT. OF A POWER POLE, MAIL BOX OR OTHER OBJECT WHICH WILL GIVE IT PARTIAL PROTECTION, LOCATE IT NEAR OR AT SUCH PROTECTIVE FEATURE.

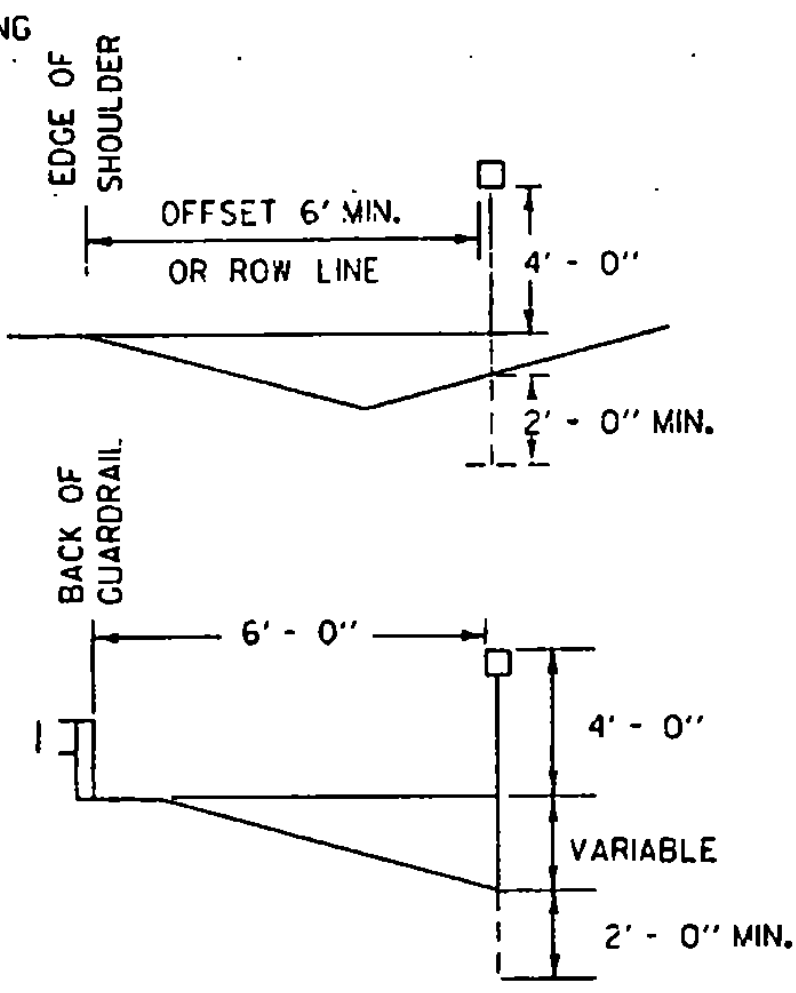
ON CLASS I TOWN HIGHWAYS (CITIES, VILLAGES) OR OTHER CONGESTED AREAS, MILEMARKERS WILL ONLY BE INSTALLED ON EXISTING SIGN POSTS AND WILL CARRY THE ACTUAL MILEAGE TO THAT LOCATION. A MILEMARKER EACH 0.10 +/- MILE IS DESIRABLE THROUGH SUCH AREAS.

THE TOP ROW OF NUMERALS INDICATE THE ROUTE NUMBER. THESE INCLUDE:

- 1) THE STATE ROUTE NUMBER, THE FOURTH NUMERAL OF WHICH BEING THE LETTER DESIGNATION. THUS, U.S. 2 WOULD BE 0020, ROUTE 100B WOULD BE 1002, ETC.
- 2) A 9000 SERIES NUMBER FOR NAMED STATE HIGHWAYS, CLASS I AND II TOWN HIGHWAYS AS LISTED ON THIS SHEET.
- 3) FEDERAL AID SECONDARY ROUTES ON TOWN HIGHWAYS USE F.A.S. ROUTE DESIGNATION NUMBERS AS SHOWN ON THE PLANNING DIVISIONS MAP TITLED "FEDERAL AID SYSTEMS ON VERMONT HIGHWAYS".

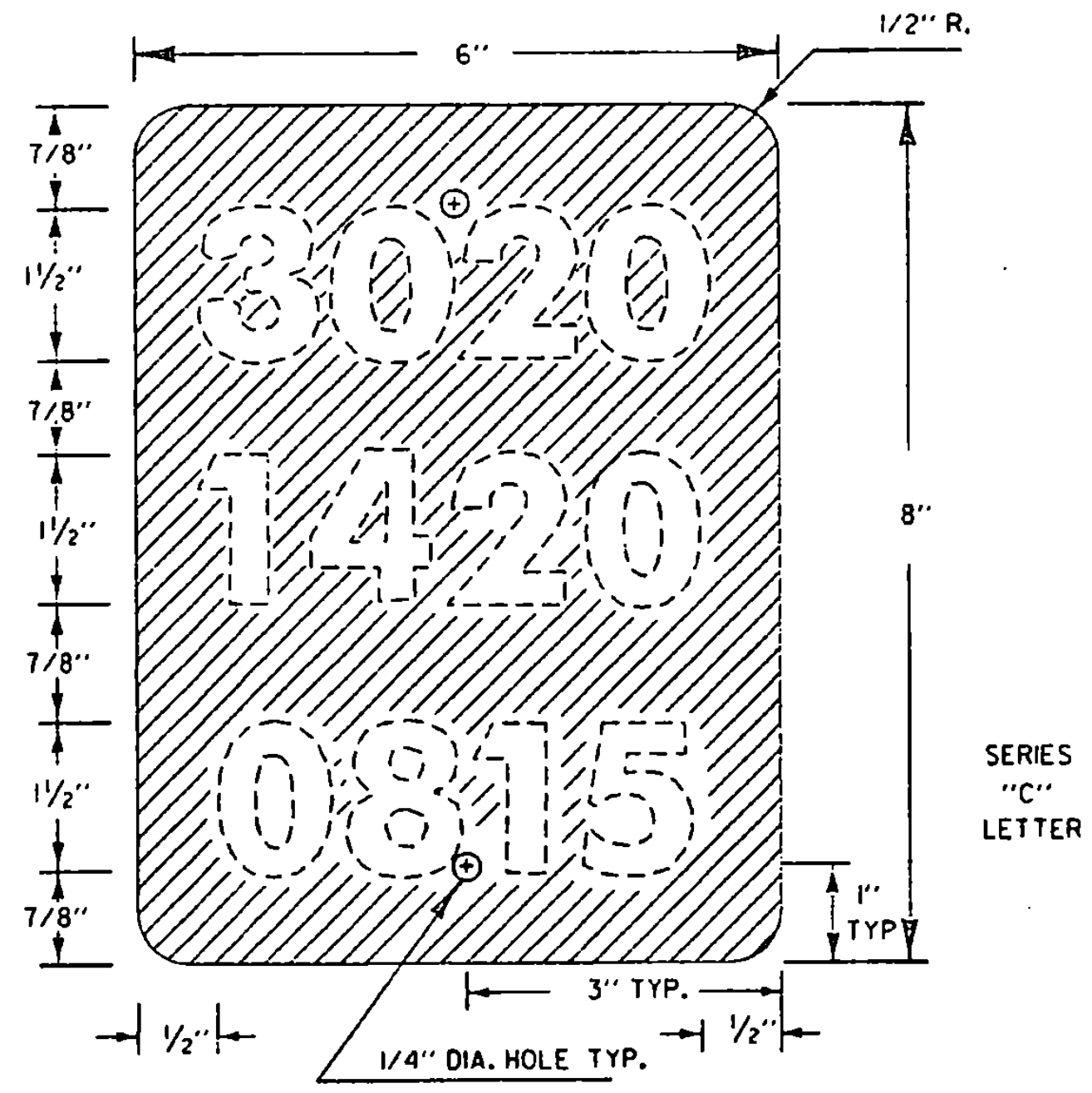
THE SECOND ROW OF NUMERALS INDICATE THE COUNTY AND TOWN. THE COUNTY IS INDICATED IN THE FIRST TWO NUMBERS, CODED ALPHABETICALLY. THE TOWN IS INDICATED IN THE LAST TWO NUMBERS, CODED ALPHABETICALLY WITHIN THE COUNTY. THUS WATERBURY, THE EIGHTEENTH TOWN ALPHABETICALLY, IN WASHINGTON COUNTY, THE TWELFTH COUNTY ALPHABETICALLY, WOULD BE INDICATED AS 1218 ON THE MARKER.

THE BOTTOM ROW OF NUMERALS INDICATES THE MILEAGE IN HUNDRETHS FROM THE TOWN LINE OR BEGINNING OF A ROUTE (TRAVELING SOUTH TO NORTH OR WEST TO EAST). THE ROUTE DIRECTION IS ESTABLISHED USING THE AGENCY'S ROUTE LOG AND PROGRESS CHARTS AS A GUIDE.



COUNTY/TOWN DESIGNATIONS

1 - ADDISON 0101 ADDISON 0102 BRIDPORT 0103 BRISTOL 0104 CORNWALL 0105 FERRISBURG 0106 GOSHEN 0107 GRANVILLE 0108 HANCOCK 0109 LEICESTER 0110 LINCOLN 0111 MIDDLEBURY 0112 MONKTON 0113 NEW HAVEN 0114 ORWELL 0115 PANTON 0116 RIPTON 0117 SALISBURY 0118 SHOREHAM 0119 STARKSBORO 0120 VERGENNES 0121 WALTHAM 0122 WEYBRIDGE 0123 WHITING	2 - BENNINGTON 0201 ARLINGTON 0202 BENNINGTON 0203 DORSET 0204 GLASTENBURY 0205 LANDGROVE 0206 MANCHESTER 0207 PERU 0208 POWNAL 0209 READSBORO 0210 RUPERT 0211 SANDGATE 0212 SEARSBURG 0213 SHAFESBURY 0214 STAMFORD 0215 SUNDERLAND 0216 WINHALL 0217 WOODFORD	3 - CALEDONIA 0301 BARNET 0302 BURKE 0303 DANVILLE 0304 GROTON 0305 HARDWICK 0306 KIRBY 0307 LYNDON 0308 NEWARK 0309 PEACHAM 0310 RYEGATE 0311 ST. JOHNSBURY 0312 SHEFFIELD 0313 STANNARD 0314 SUTTON 0315 WALDEN 0316 WATERFORD 0317 WHELOCK	4 - CHITTENDEN 0401 BOLTON 0402 BUEL'S GORE 0403 BURLINGTON 0404 CHARLOTTE 0405 COLCHESTER 0406 ESSEX 0407 HINESBURG 0408 HUNTINGTON 0409 JERICHO 0410 MILTON 0411 RICHMOND 0412 ST. GEORGE 0413 SHELBORNE 0414 SO. BURLINGTON 0415 UNDERHILL 0416 WESTFORD 0417 WILLISTON 0418 WINDSOR	5 - ESSEX 0501 AVERILL 0502 AVERY'S GORE 0503 BLOOMFIELD 0504 BRIGHTON 0505 BRUNSWICK 0506 CANAAN 0507 CONCORD 0508 EAST HAVEN 0509 FERDINAND 0510 GRANBY 0511 GUILDHALL 0512 LEMINGTON 0513 LEWIS 0514 LUNENBURG 0515 MAIDSTONE 0516 NORTON 0517 VICTORY 0518 WARNER'S GRANT 0519 WARREN'S GORE	6 - FRANKLIN 0601 BAKERSFIELD 0602 BERKSHIRE 0603 ENOSBURG 0604 FAIRFAX 0605 FAIRFIELD 0606 FLETCHER 0607 FRANKLIN 0608 GEORGIA 0609 HIGHGATE 0610 MONTGOMERY 0611 RICHFORD 0612 ST. ALBANS CITY 0613 ST. ALBANS TOWN 0614 SHELDON 0615 SWANTON	7 - GRAND ISLE 0701 ALBURG 0702 GRAND ISLE 0703 ISLE LA MOTTE 0704 NORTH HERO 0705 SOUTH HERO
8 - LAMOILLE 0801 BELVIDERE 0802 CAMBRIDGE 0803 EDEN 0804 ELMORE 0805 HIDE PARK 0806 JOHNSON 0807 MORRISTOWN 0808 STOW 0809 WATERVILLE 0810 WOLECOTT	9 - ORANGE 0901 BRADFORD 0902 BRANTREE 0903 BROOKFIELD 0904 CHELSEA 0905 CORINTH 0906 FAIRLEE 0907 NEWBURY 0908 ORANGE 0909 RANDOLPH 0910 STRAFFORD 0911 THEFORD 0912 TOPSHAM 0913 TUNBRIDGE 0914 VERSHIRE 0915 WASHINGTON 0916 WEST FAIRLEE 0917 WILLIAMSTOWN	10 - ORLEANS 1001 ALBANY 1002 BARTON 1003 BROWNINGTON 1004 CHARLESTON 1005 COVENTRY 1006 CRAFTSBURY 1007 DERBY 1008 GLOVER 1009 GREENSBORO 1010 HOLLAND 1011 IRASBURG 1012 JAY 1013 LOWELL 1014 MORGAN 1015 NEWPORT CITY 1016 NEWPORT TOWN 1017 TROY 1018 WESTFIELD 1019 WESTMORE	11 - RUTLAND 1101 BENSON 1102 BRANSON 1103 CASTLETON 1104 CHITTENDEN 1105 CLARENDON 1106 GANBY 1107 FAIR HAVEN 1108 HUBBARDTON 1109 IRA 1110 MENDON 1111 MIDDLETOWN 1112 MT. HOLLY 1113 MT. TABOR 1114 PAWLET 1115 PITTSFIELD 1116 PITTSFORD 1117 POULNEY 1118 PROCTOR 1119 RUTLAND CITY 1120 RUTLAND TOWN 1121 SHERBORNE 1122 SHREWSBURY 1123 SUDBURY 1124 TUNMOUTH 1125 WALLINGFORD 1126 WELLS 1127 WEST HAVEN 1128 WEST RUTLAND	12 - WASHINGTON 1201 BARRE CITY 1202 BARRE TOWN 1203 BERLIN 1204 CABOT 1205 CALAIS 1206 DUXBURY 1207 E. MONTPELIER 1208 FAYSTON 1209 MARSHFIELD 1210 MIDDLESEX 1211 MONTPELIER 1212 MORETOWN 1213 NORTHFIELD 1214 PLAINFIELD 1215 ROXBURY 1216 WAITTSFIELD 1217 WARREN 1218 WATERBURY 1219 WOODBURY 1220 WORCESTER	13 - WINDHAM 1301 ATHENS 1302 BRATTLEBORO 1303 BROOKLINE 1304 DOVER 1305 DUMMERSTON 1306 GRAFTON 1307 GUILFORD 1308 HALIFAX 1309 JAMAICA 1310 LONDONDERRY 1311 MARLBORO 1312 MORETOWN 1313 PUTNEY 1314 ROCKINGHAM 1315 SOMERSET 1316 STRATTON 1317 TOWNSEND 1318 VERNON 1319 WARDSBORO 1320 WESTMINSTER 1321 WHITINGHAM 1322 WILMINGTON 1323 WINDHAM	14 - WINDSOR 1401 ANDOVER 1402 BALTIMORE 1403 BARNARD 1404 BETHEL 1405 BRIDGEWATER 1406 CAVENTISH 1407 CHESTER 1408 HARTFORD 1409 HARTLAND 1410 LUDLOW 1411 NORWICH 1412 PLYMOUTH 1413 FOMFRET 1414 READING 1415 ROCHESTER 1416 ROYALTON 1417 SHARON 1418 SPRINGFIELD 1419 STOCKBRIDGE 1420 WEATHERSFIELD 1421 WESTON 1422 WEST WINDSOR 1423 WINDSOR 1424 WOODSTOCK



CLASS I AND II TOWN HIGHWAYS

ROUTE CODE NUMBER	AND NAMED STATE HIGHWAY
9020	BARNET STATE HIGHWAY
9025	BENNINGTON NORTH STATE HIGHWAY
9030	BERLIN STATE HIGHWAY
9090	BRATTLEBORO STATE HIGHWAY
9150	CASTLETON STATE HIGHWAY
9180	COVENTRY STATE HIGHWAY
9210	FAIR HAVEN STATE HIGHWAY
9240	FAIRLEE STATE HIGHWAY
9270	FERRISBURG STATE HIGHWAY
9330	MAIDSTONE STATE HIGHWAY
9360	MIDDLESEX STATE HIGHWAY
9390	MONTPELIER STATE HIGHWAY
9420	MONTPELIER JUNCTION STATE HIGHWAY
9430	NEWBURY STATE HIGHWAY
9480	NORTON STATE HIGHWAY
9540	NORWICH STATE HIGHWAY
9600	PUTNEY STATE HIGHWAY
9630	QUECHEE STATE HIGHWAY
9720	ST. ALBANS ST. HWY. SOUTH
9730	ST. JOHNSBURY ST. HWY.
9750	SOUTH ALBURG STATE HIGHWAY
9840	WESTMINSTER STATE HIGHWAY
9870	WILDER STATE HIGHWAY
9900	WINHALL STATE HIGHWAY
9990	WEST RUTLAND-RUTLAND (BUS. US-4)
9991	BELLOWS FALLS 50117 (ROCK-WEST ST.)
9992	BELLOWS FALLS 51171 (BRIDGE ST.)
9993	BURLINGTON (ALTERNATE US-7)
9995	MONTPELIER (BUS. US-2)
9996	NEWPORT (ALTERNATE US-5)
9997	ST. JOHNSBURY (ALTERNATE US-5)
9998	SO. BURLINGTON-KENNEDY DRIVE

- PAYMENT:**
MILEMARKERS SHALL BE PAID AS TRAFFIC SIGNS, TYPE "A", AND POSTS PAID AS FLANGED CHANNEL STEEL SIGN POSTS.
- MATERIAL:**
THE SIGN BASE MATERIAL SHALL BE 0.04" FLAT SHEET ALUMINUM.
- COLORS:**
THE SIGN SHALL HAVE A REFLECTORIZED WHITE TEXT ON A REFLECTORIZED GREEN BACKGROUND. THE COLORS SHALL CONFORM WITH THOSE FOUND IN STANDARD COLOR TOLERANCE CHARTS AS APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
- LETTERING:**
LETTERS AND DIGITS SHALL CONFORM WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS AS PRINTED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- POSTS:**
FLANGED CHANNEL STEEL 2 #/FT. POSTS SHALL BE USED WHEN THE POST LENGTH EXCEEDS 7 FEET. FOR LENGTHS OF 7 FEET OR LESS, A 1.12 #/FT. STEEL SIGN POST SHALL BE USED.

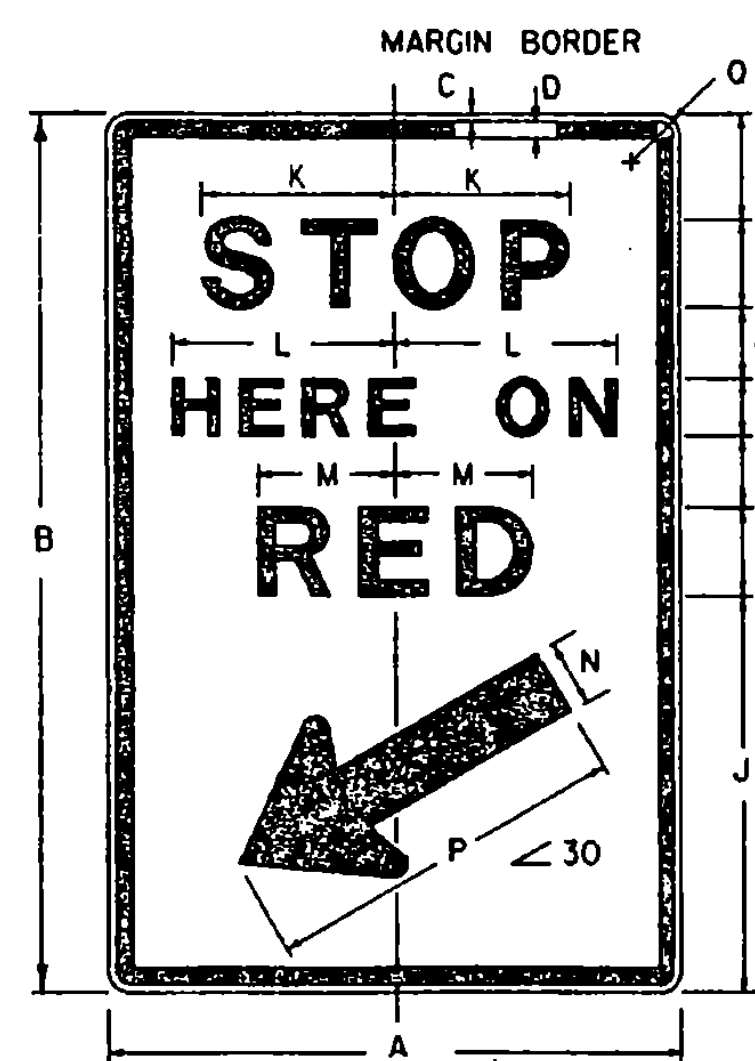
OTHER STDS. E-160 REQUIRED:

STANDARD E-138

REVISIONS AND CORRECTIONS
OCT 20, 1988 - DATE OF ORIGINAL ISSUE
AUG. 08, 1995 - MINOR NOTE REVISIONS

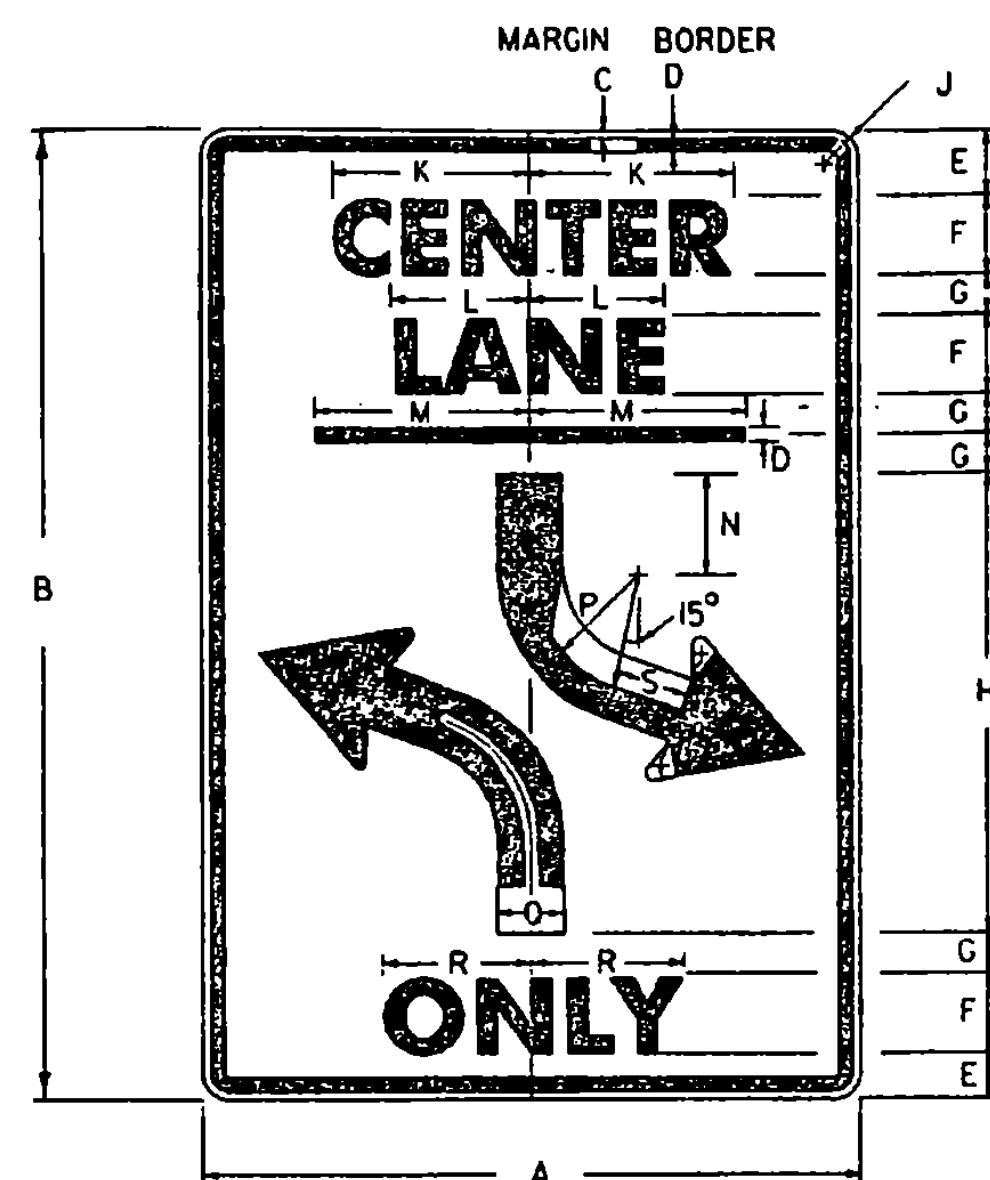
APPROVED
Simon D. McArthur
DIRECTOR OF ENGINEERING
Paul A. Ross
TRAFFIC AND SAFETY ENGINEER

**MILEMARKER DETAILS
STATE AND TOWN
HIGHWAYS**



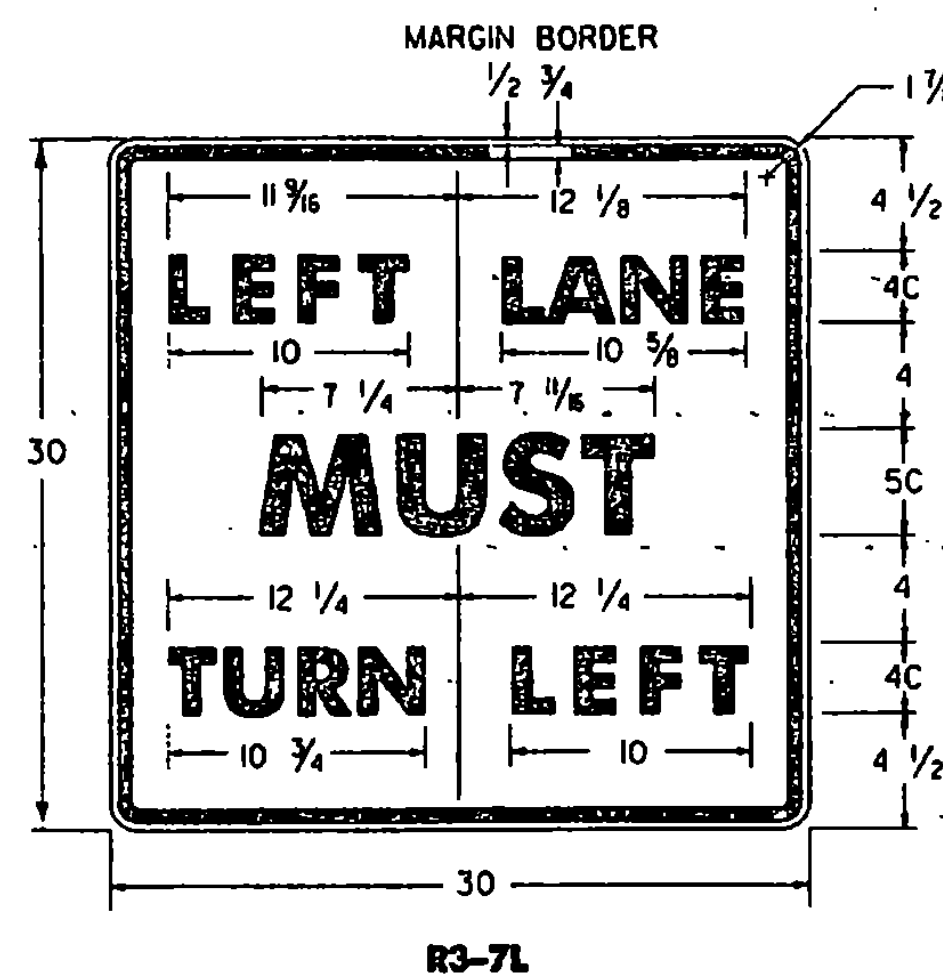
R10-6

SIGN	A	B	C	D	E	F	G	H
STD.	24	36	3/8	3/8	4	5D	2 1/2	3D
SPECIAL	36	48	3/8	3/8	6	6D	4	4D
SIGN	J	K	L	M	N	P	O	
STD.	14	6 1/2	9 1/2	5 1/8	2 3/4	14 3/8	1 1/2	
SPECIAL	18	9 3/4	12 1/2	7 1/8	2 3/4	16	2 1/4	

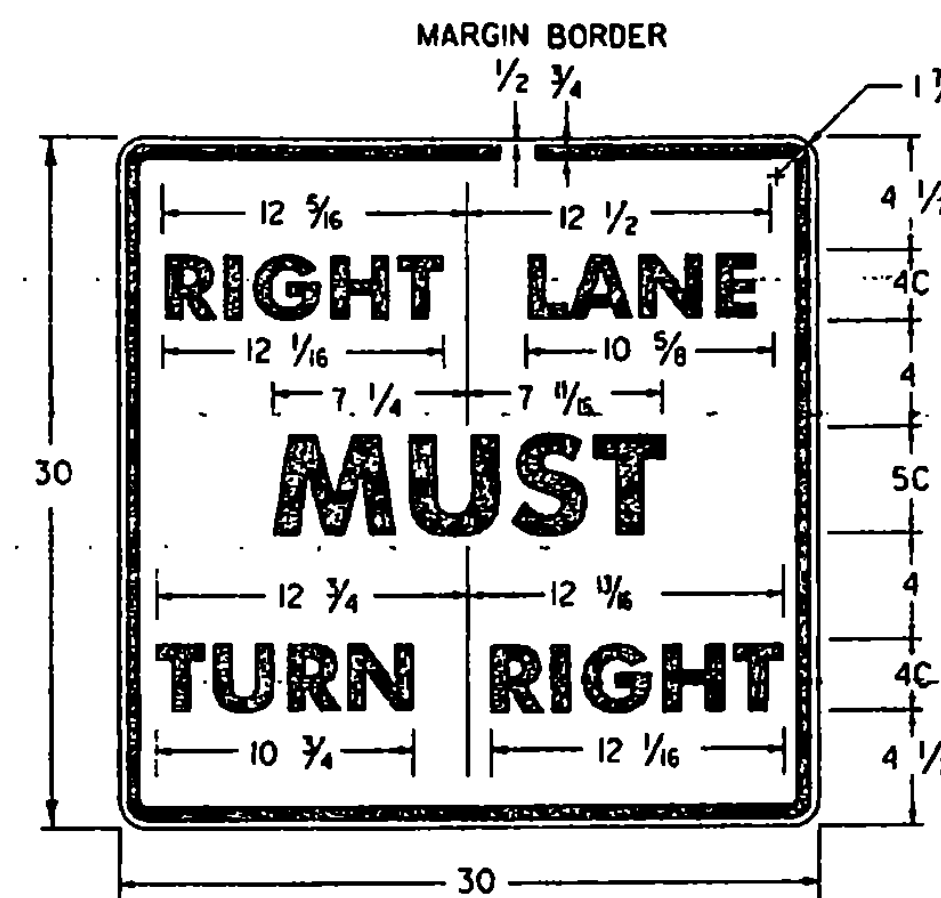


R3-9B

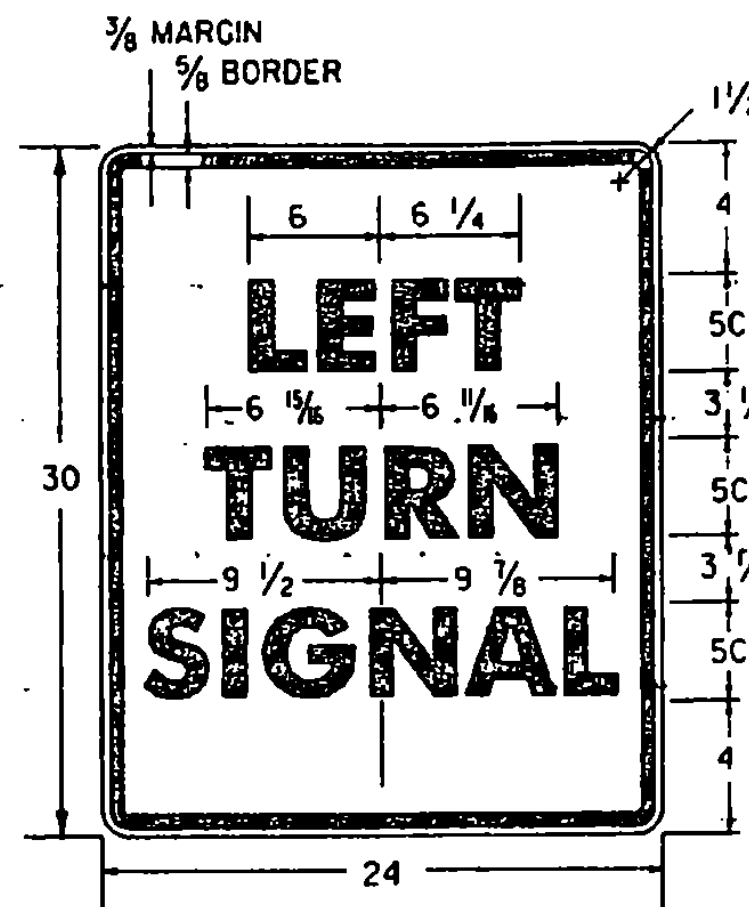
SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	
STD.	24	36	3/8	3/8	2 1/2	3E	1 1/2	16	1 1/2	8 1/8	
SPECIAL	36	48	3/8	3/8	3 1/2	5E	1 1/2	20	2 1/4	14 1/8	
SIGN	L	M	N	P	Q	R	S				
STD.	5 3/4	8	2 1/2	6	2	5 5/8	1 1/2				
SPECIAL	9 1/2	12	3	8	3	9 3/8	2				



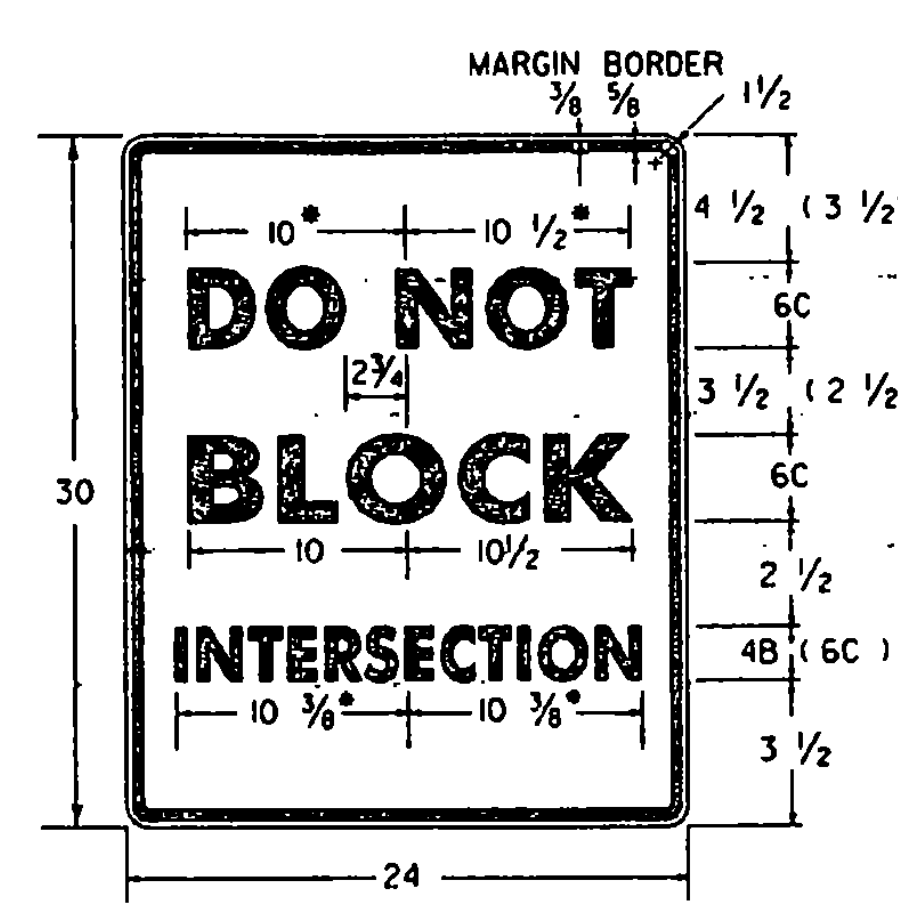
R3-7L



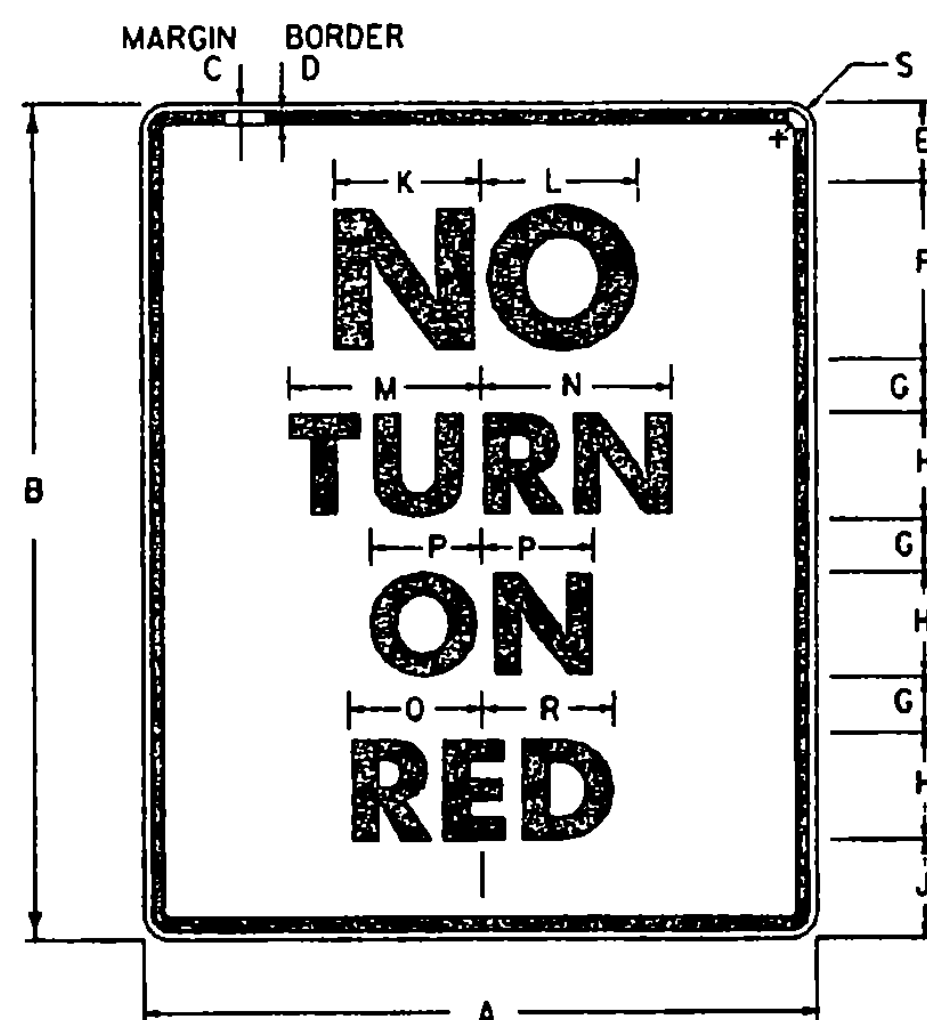
R3-7R



R10-10L

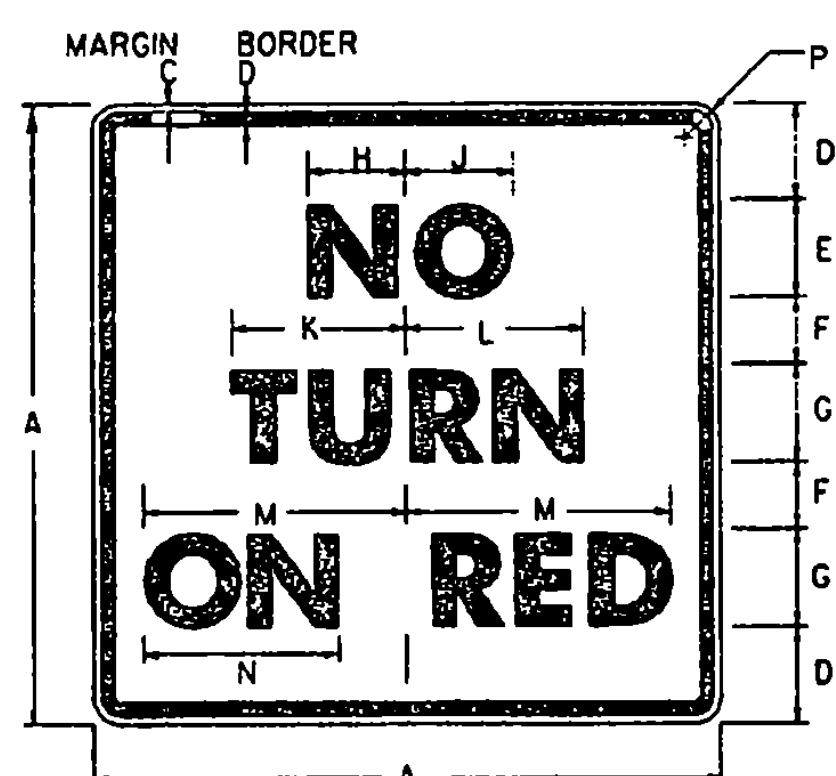


* REDUCE SPACING 50 %
() INDICATES DIMENSIONS FOR "DO NOT BLOCK DRIVE" SIGN
R10-7



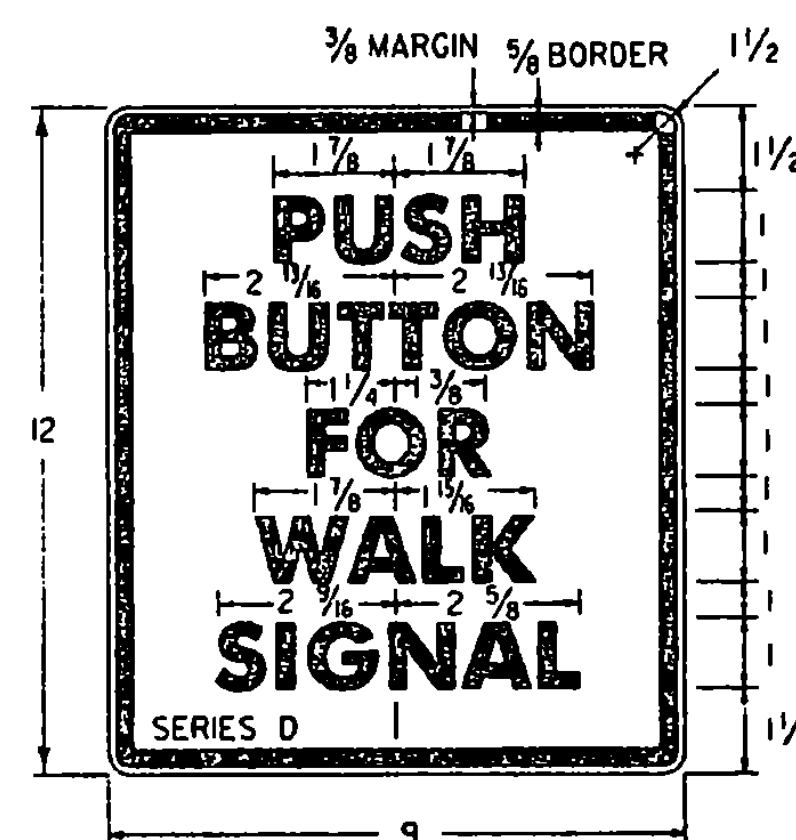
POST MOUNTING
R10-11A

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	
STD.	24	30	3/8	3/8	3 1/4	5E	2 1/4	4D	3	4 1/8	
SPECIAL	36	48	3/8	3/8	6	8E	3 1/2	6D	5 1/2	7 3/4	
SIGN	L	M	N	P	O	R	S				
STD.	5 3/8	6 3/8	6 1/2	3 1/2	4 5/8	4 3/8	1 1/2				
SPECIAL	8 1/4	10	9 3/4	5 1/4	6 3/8	7 3/8	2 1/4				

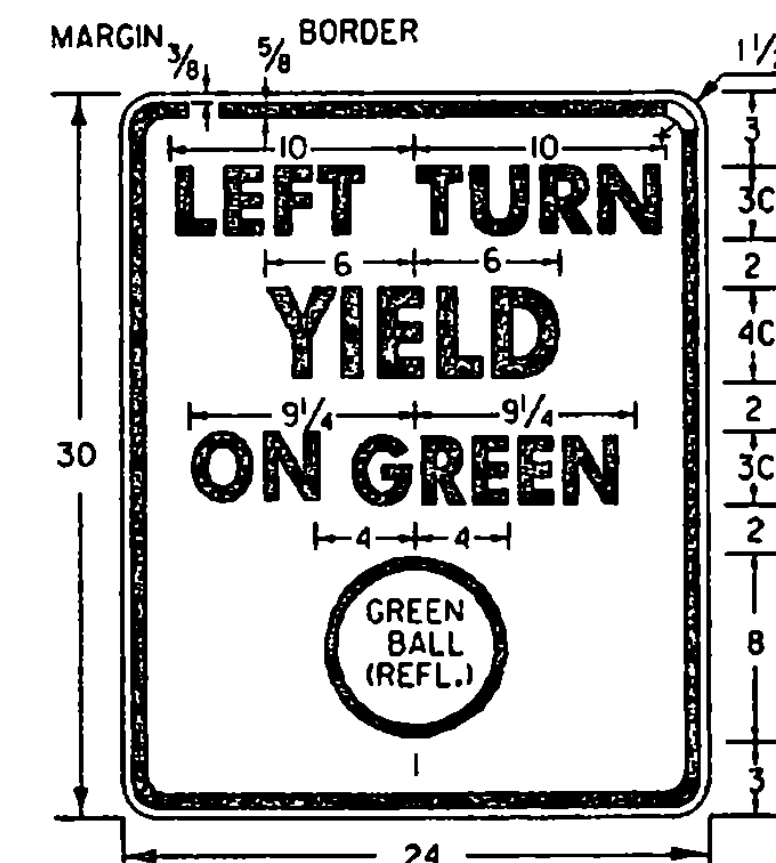


OVERHEAD MOUNTING
R10-11B

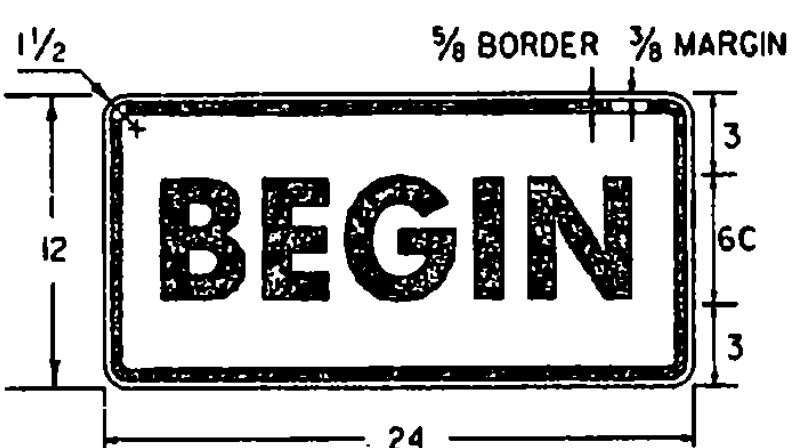
SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
MIN.	18	3/8	3/8	2 3/4	3E	1 3/4	3D	2 3/8	3 1/8	5	4 3/8	7 1/8	5 1/4	1 1/2
STD.	24	3/8	3/8	3 1/2	4E	2 1/2	4D	3 3/8	4 1/8	6 5/8	6 1/2	9 1/2	6 1/2	1 1/2
SPECIAL	30	1/2	3/4	4 1/2	5E	3	5D	4 3/8	5 3/8	8 1/4	8 1/8	11 3/8	7 3/4	1 3/8



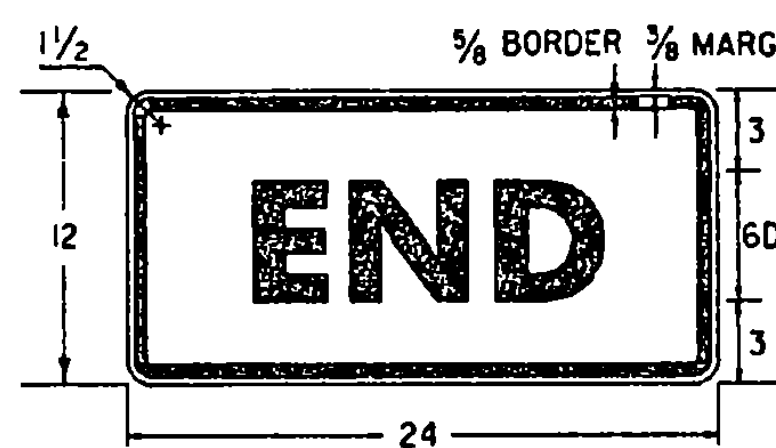
R10-4



R10-12



M4-11



M4-6

GENERAL:

1. ALL DIMENSIONS IN INCHES.
2. SEE STANDARD E-144 FOR ARROWHEAD DETAILS.

COLORS:

THE REGULATORY SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT ON REFLECTORIZED WHITE BACKGROUND, UNLESS OTHERWISE NOTED. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS:

THE SIGN BASE MATERIALS USED FOR REGULATORY SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING OF THE MINIMUM THICKNESS NOTED.

FLAT SHEET ALUMINUM	0.060"	0.080"	0.100"
HIGH DENSITY OVERLAID PLYWOOD	1/2"	5/8"	14 GAGE
GALVANIZED FLAT SHEET STEEL	18 GAGE	16 GAGE	14 GAGE

THE REFLECTIVE MATERIAL FOR GROUND MOUNTED SIGNS SHALL BE AASHTO TYPE II OR III WHITE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. WHEN MOUNTED OVERHEAD, ALL SIGNS SHALL HAVE ENCAPSULATED LENS REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE TEXT OF THE SIGNS MAY BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. HAND PAINTING MUST BE COMPARABLE IN QUALITY TO THE RESULTS OBTAINED BY SILK SCREENING.

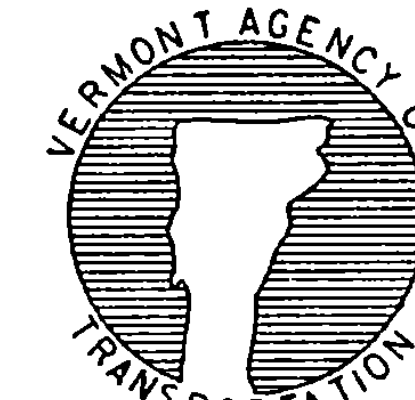
SPECIFICATIONS

REGULATORY SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR TRAFFIC SIGNS.

TEXT DESIGN:

LETTERS, DIGITS, ARROWS, SPACING AND TEXT DIMENSIONS SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AND DESIGNS PRESCRIBED IN THE STANDARD HIGHWAY SIGNS AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

OTHER STDS.: E-144
REQUIRED



STANDARD
E-140

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
SEPT. 20, 1995 - ADDED SIGN ID NUMBERS, MINOR NOTE REVISIONS, SHEET REALIGNMENT
AUG. 30, 1996 - MADE ERROR CORRECTIONS TO SIGN DETAILS R10-6 & R10-11B

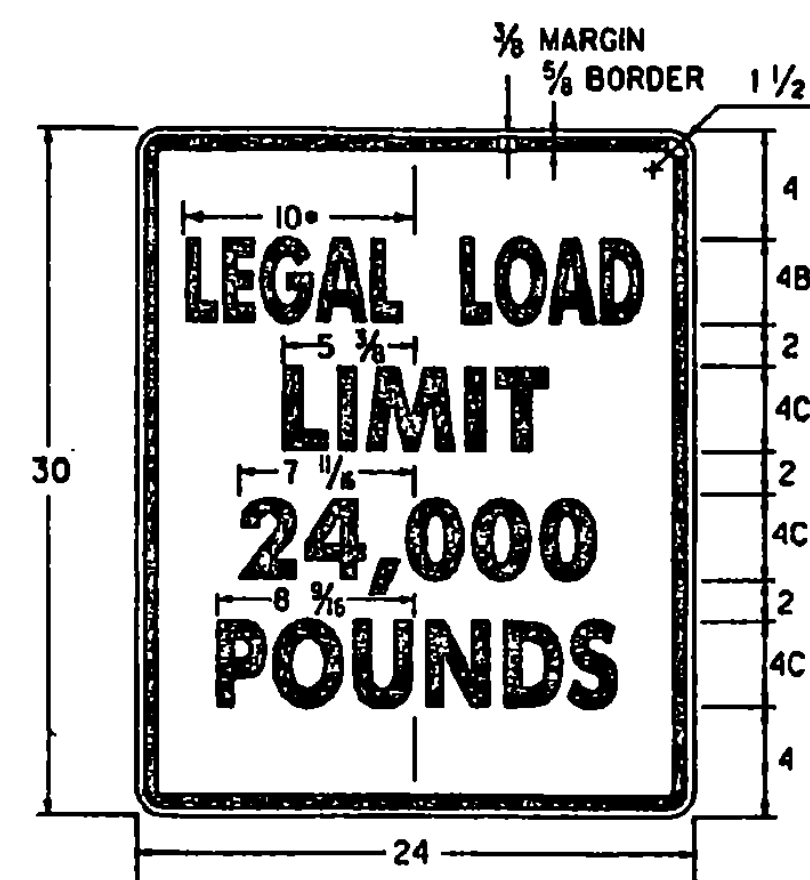
APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FHWA FINAL APPROVAL PENDING.

APPROVED

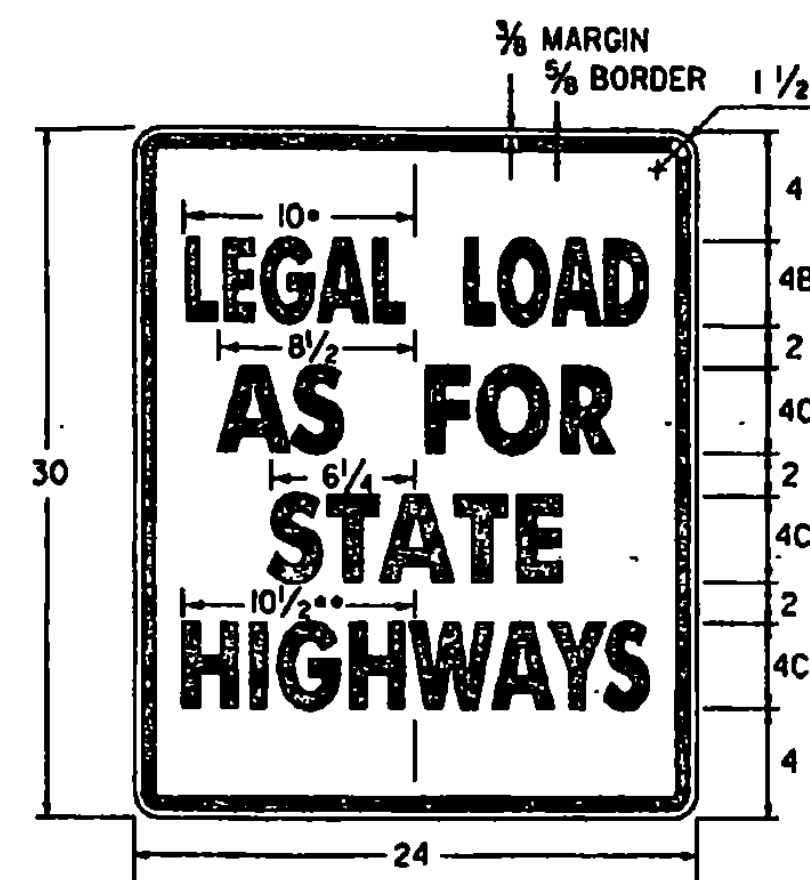
John A. Ross
DIRECTOR OF ENGINEERING

Dana A. Ross
TRAFFIC AND SAFETY ENGINEER

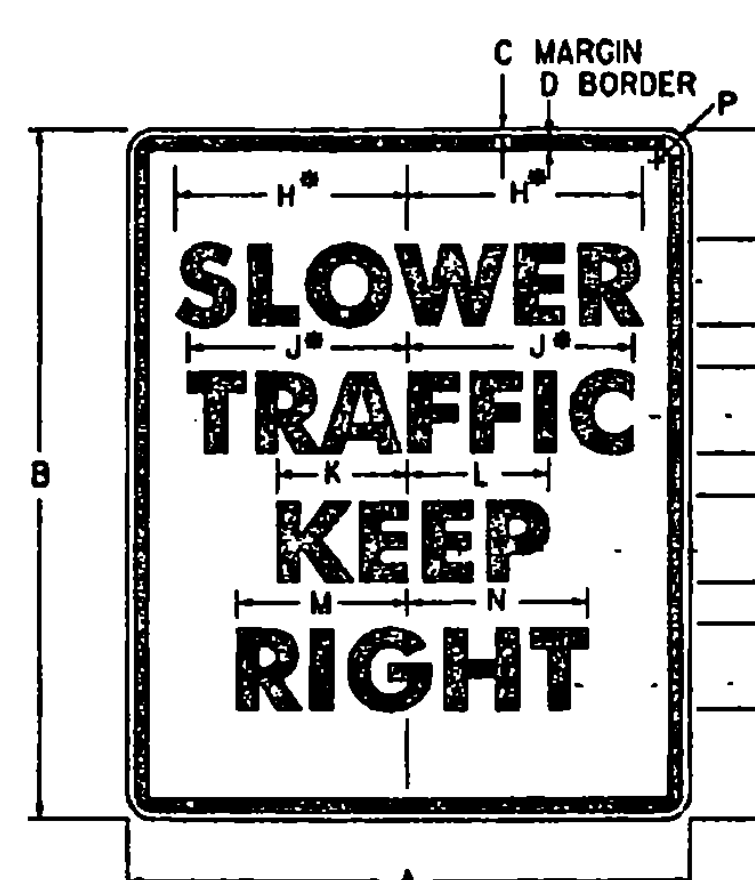
REGULATORY SIGN
DETAILS



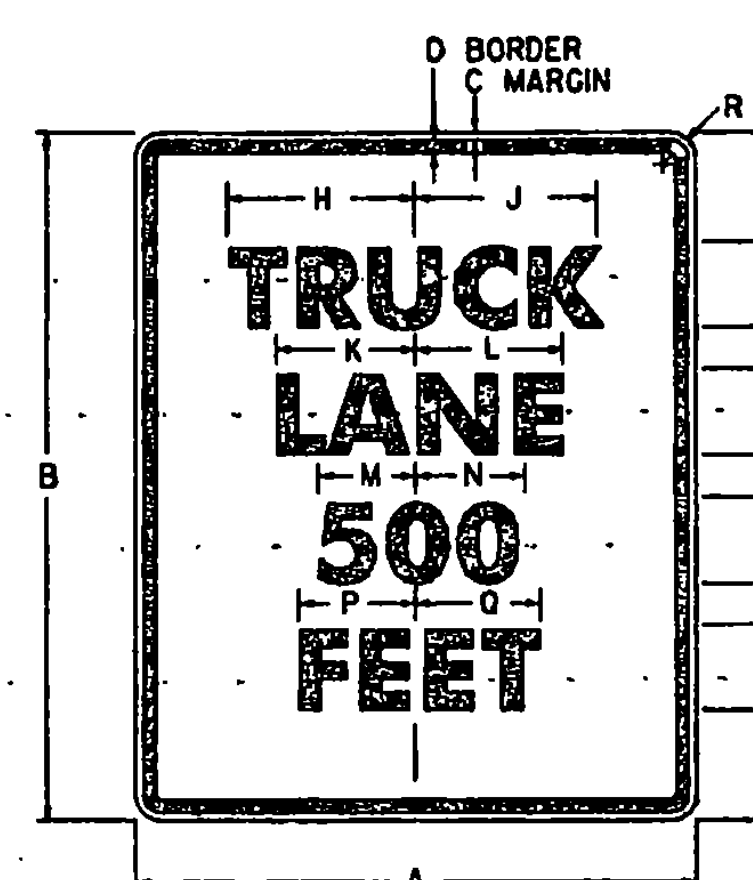
• REDUCE SPACING 50 %
LINE 3 ALTERNATE - 16,000
VR-017



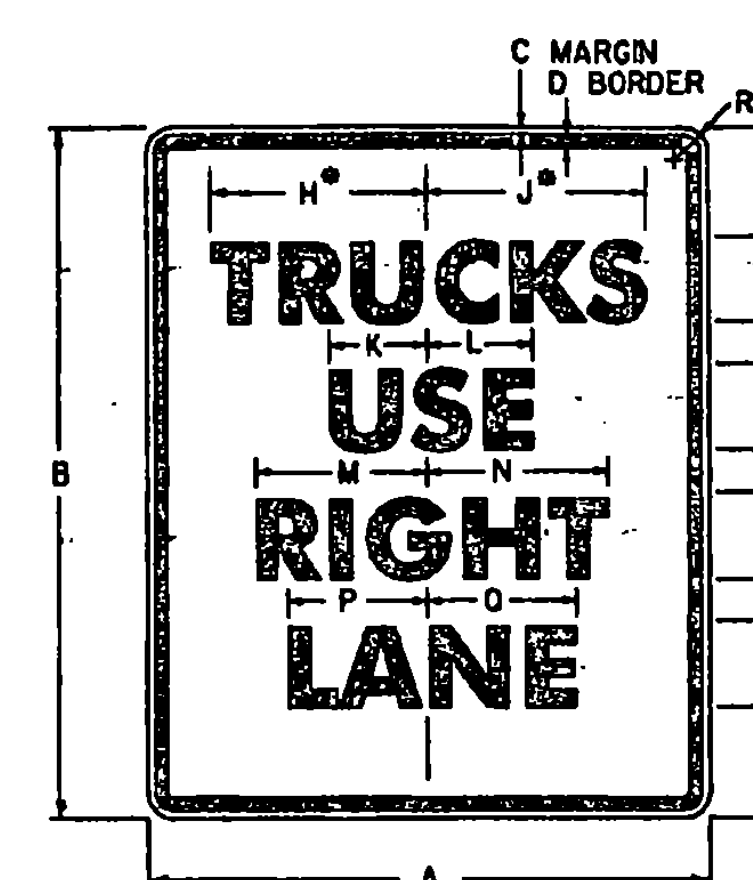
• REDUCE SPACING 50 %
• REDUCE SPACING 38 %
VR-079



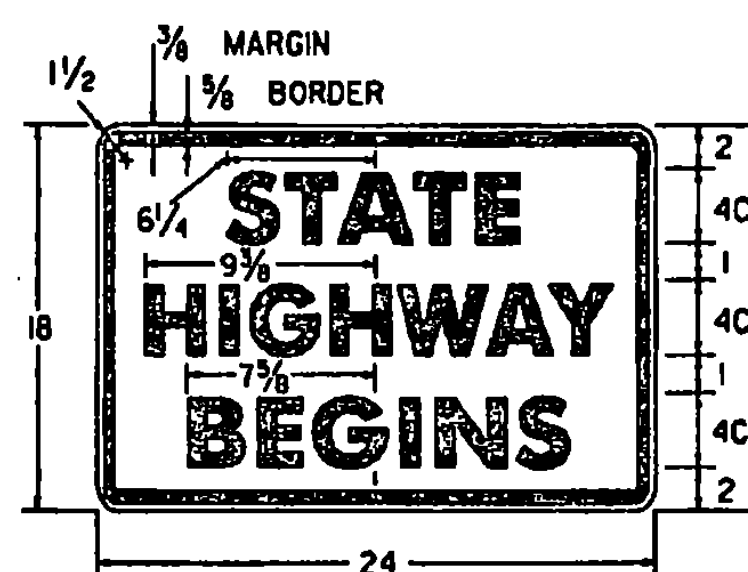
• REDUCE SPACING 25 %
R4-3



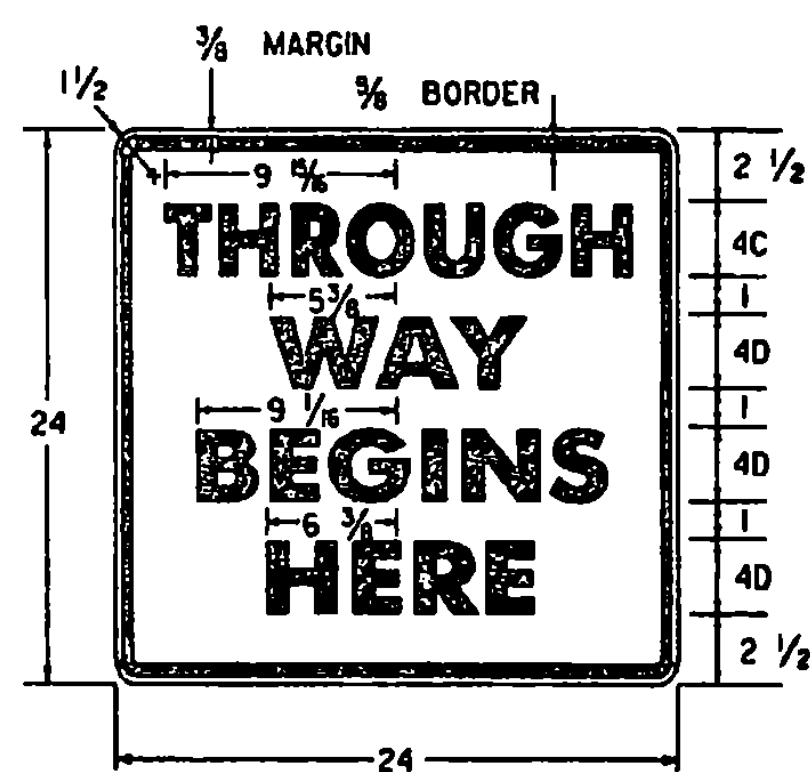
R4-6



• REDUCE SPACING 32 %
R4-5



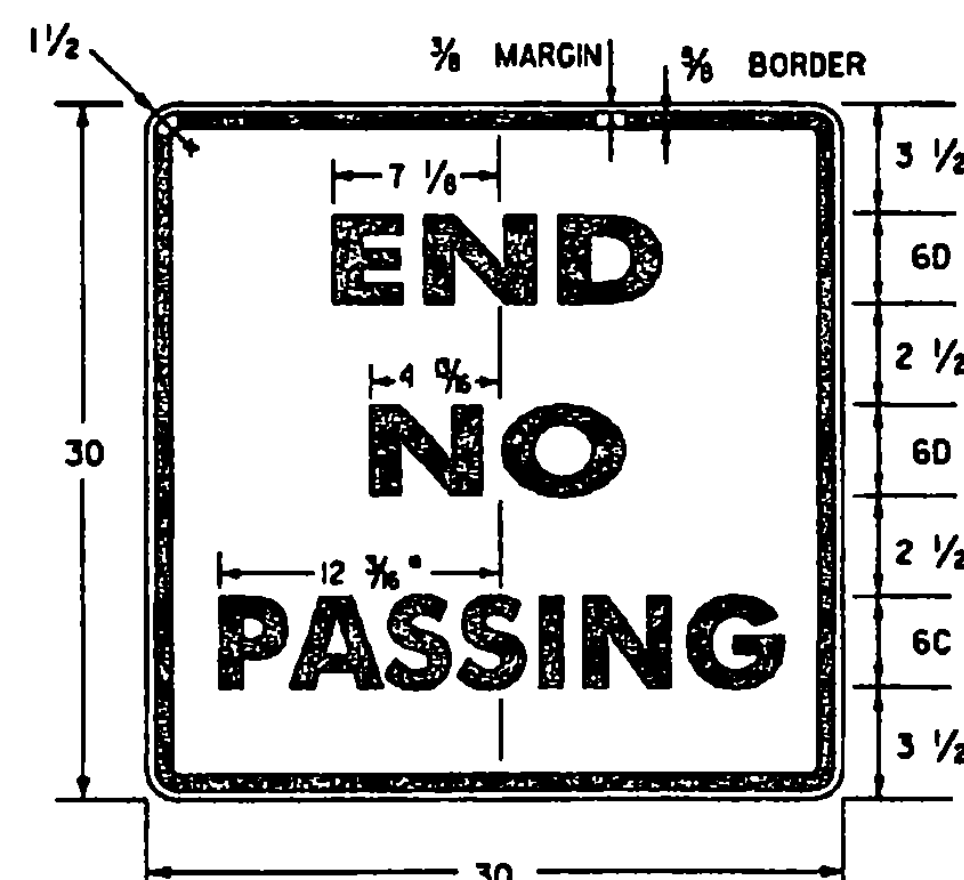
VR-039



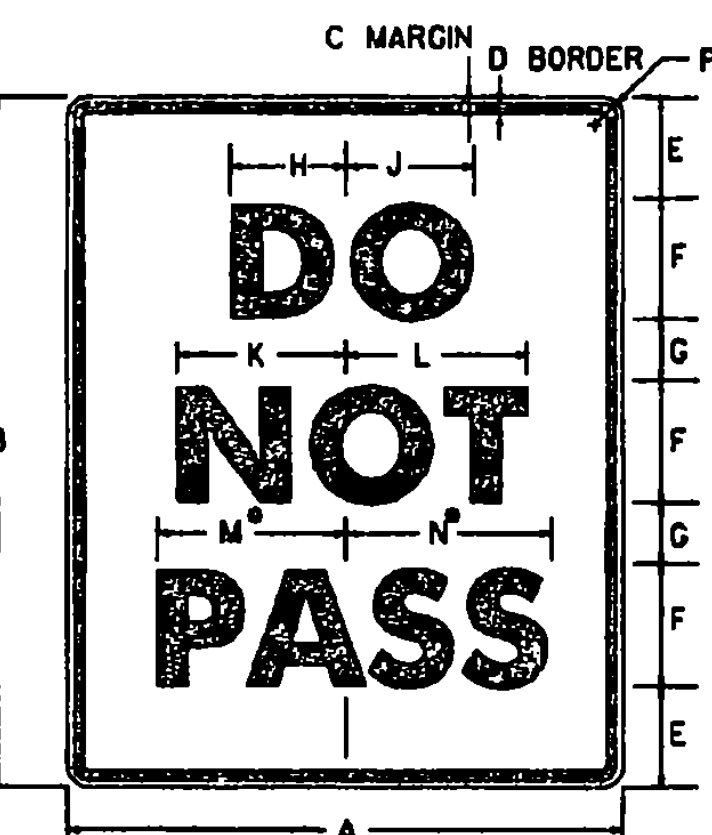
VR-041



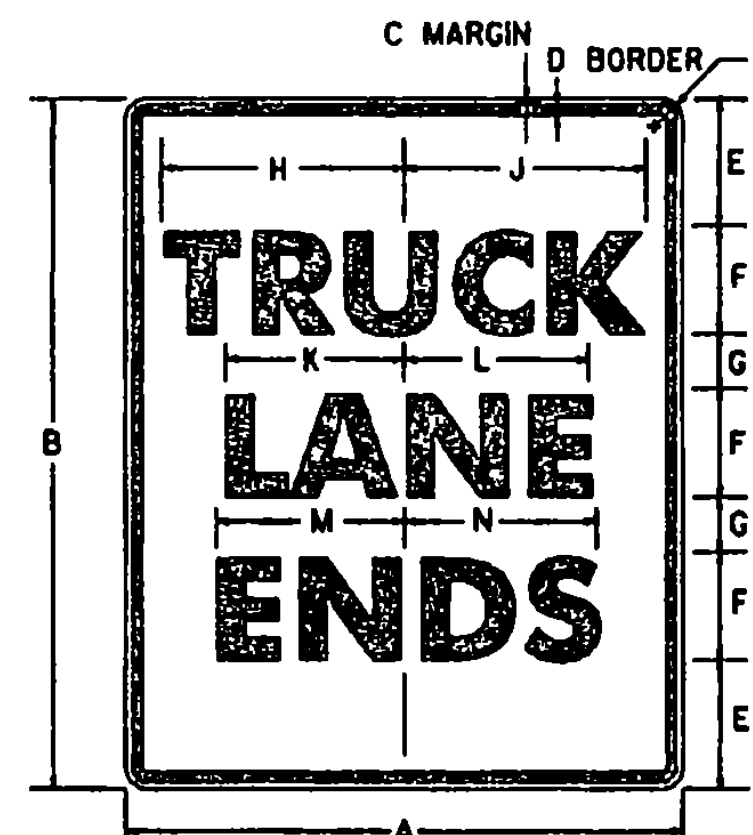
VR-038



• REDUCE SPACING 50 %
VR-417



• REDUCE SPACING 40 %
R4-1



VR-186

SIGN	DIMENSIONS (INCHES)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	
STD.	24	30	3/8	5/8	3 3/8	4D	2 1/4	9 3/4	10	6	6 3/8	7 1/8	7 5/8	1 1/2	
EXPWY.	36	48	3/8	7/8	6	6D	4	14 3/8	15	9	9 3/8	10 1/8	11 3/8	2 1/4	
FWY.	48	60	3/4	1 1/4	7 1/4	8D	4 1/2	19 1/2	20	12	13 1/8	14 1/4	15 1/4	3	

SIGN	DIMENSIONS (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	
STD.	24	30	3/8	5/8	3 3/8	4E	2 1/4	9 3/8	9 1/8	7 1/8	7 1/8	5 1/8	5 1/8	6 7/8	7 1/8	1 1/2	
EXPWY.	36	48	3/8	7/8	6	6E	4	14 3/4	14 1/2	11 3/8	11 1/2	8 1/2	8 3/4	10 3/8	10 3/8	2 1/4	
FWY.	48	60	3/4	1 1/4	7 1/4	8E	4 1/2	19 3/8	19 3/8	15 3/8	15 3/8	11 3/8	11 3/8	13 3/4	14 1/8	3	

SIGN	DIMENSIONS (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	O	R	
STD.	24	30	3/8	5/8	3 3/8	4D	2 1/4	9 3/8	9 3/8	4 3/4	5	7 1/8	7 5/8	6 1/4	6 5/8	1 1/2	
EXPWY.	36	48	3/8	7/8	6	6D	4	14 3/8	13 3/8	7 1/8	7 1/2	10 1/8	11 3/8	9 3/8	9 3/8	2 1/4	
FWY.	48	60	3/4	1 1/4	7 1/4	8D	4 1/2	19 1/8	18 3/8	9 1/2	10	14 1/4	15 1/4	12 1/2	13 1/4	3	

GENERAL:

1. ALL DIMENSIONS IN INCHES.

COLORS:

THE REGULATORY SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT ON REFLECTORIZED WHITE BACKGROUND, UNLESS OTHERWISE NOTED. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS:

THE SIGN BASE MATERIALS USED FOR REGULATORY SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING OF THE MINIMUM THICKNESS NOTED.

24" X 18"	0.080"	0.100"
24" X 24"	1/2"	5/8"
24" X 30"	16 GAGE	14 GAGE
36" X 30"		
48" X 60"		

FLAT SHEET ALUMINUM
HIGH DENSITY OVERLAID PLYWOOD
GALVANIZED FLAT SHEET STEEL

THE REFLECTIVE MATERIAL FOR GROUND MOUNTED SIGNS SHALL BE AASHTO TYPE II OR III WHITE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE TEXT OF THE SIGNS MAY BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. HAND PAINTING MUST BE COMPARABLE IN QUALITY TO THE RESULTS OBTAINED BY SILK SCREENING.

SPECIFICATIONS:

REGULATORY SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR TRAFFIC SIGNS.

TEXT DESIGN:

LETTERS, DIGITS, ARROWS, SPACING AND TEXT DIMENSIONS SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AND DESIGNS PRESCRIBED IN THE STANDARD HIGHWAY SIGNS AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
SEPT. 20, 1995 - ADDED AND DELETED SIGN DETAIL,
ADDED SIGN ID NUMBERS, MINOR NOTE
REVISIONS.

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

APPROVED

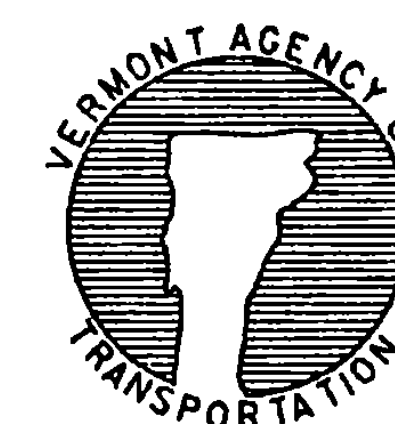
Stephen D. McCall
DIRECTOR OF ENGINEERING

Daniel A. Ross
TRAFFIC AND SAFETY ENGINEER

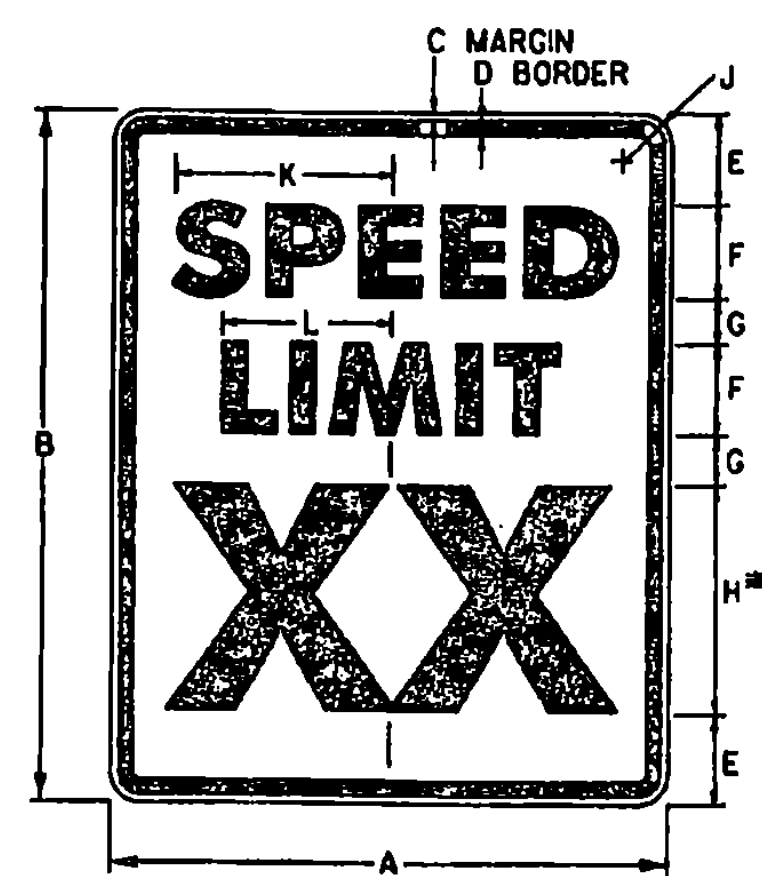
**REGULATORY SIGN
DETAILS**

/trcf/std/stdel4l.dgn | stdel4l.l

**OTHER STDS.: NONE
REQUIRED**



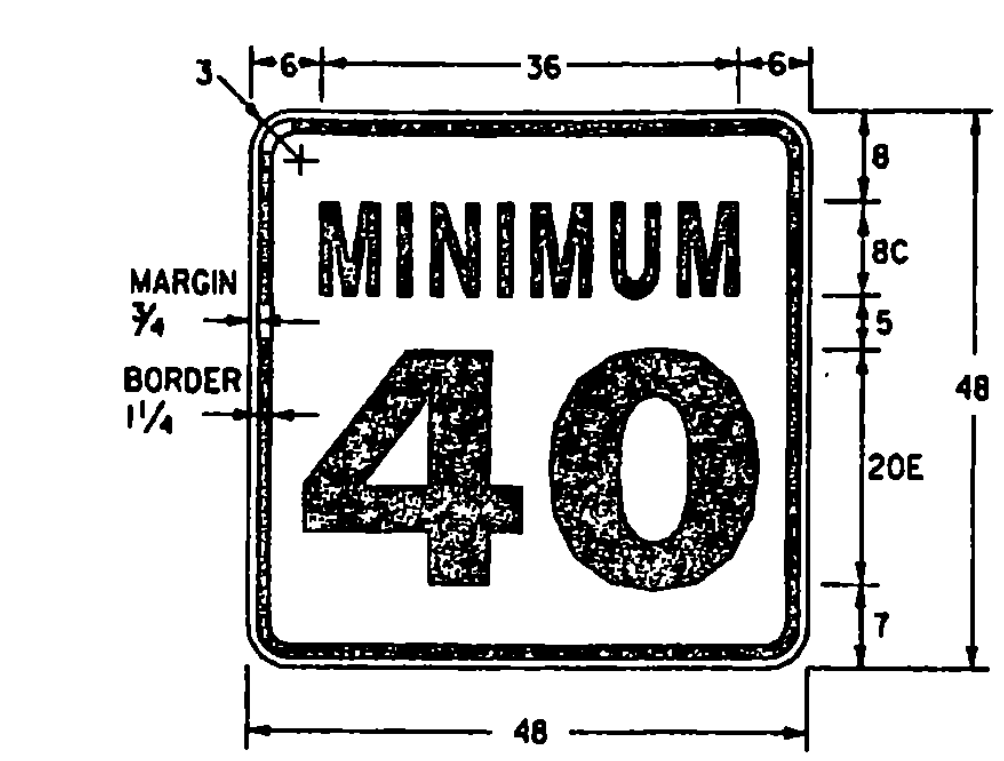
**STANDARD
E-141**



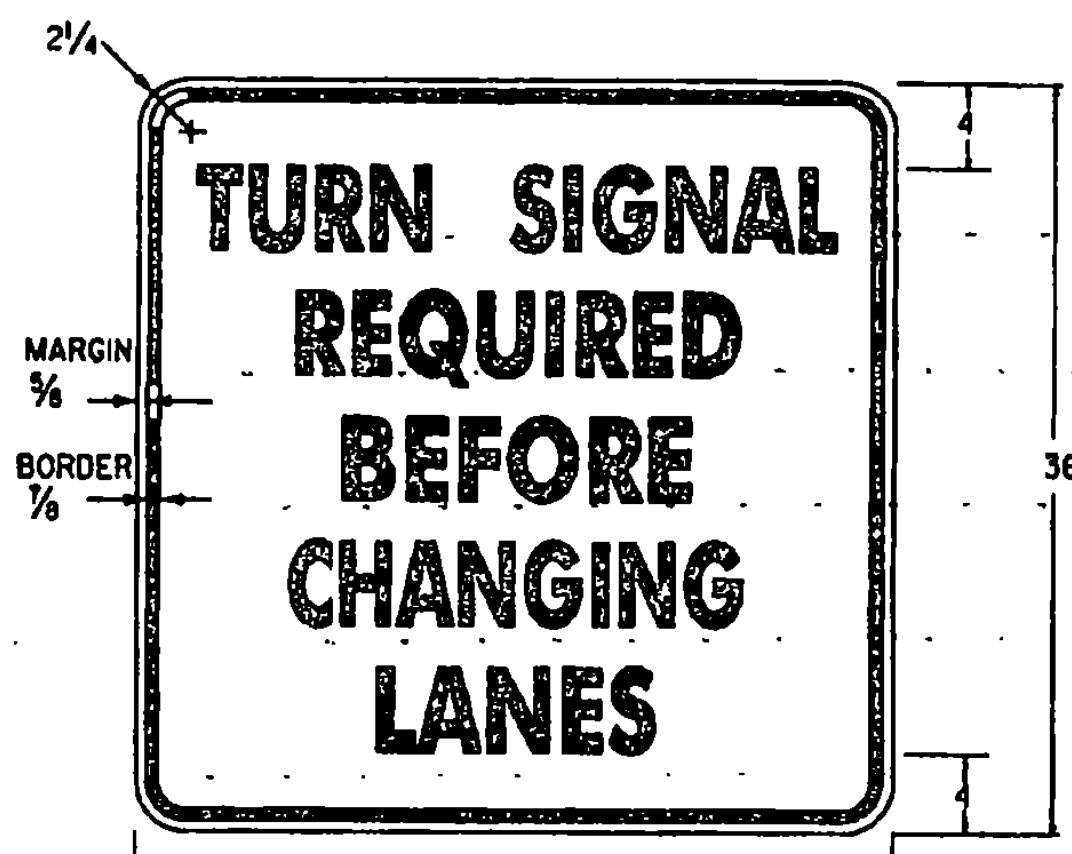
* OPTICALLY SPACE NUMERALS ABOUT VERTICAL CENTERLINE.

R2-1

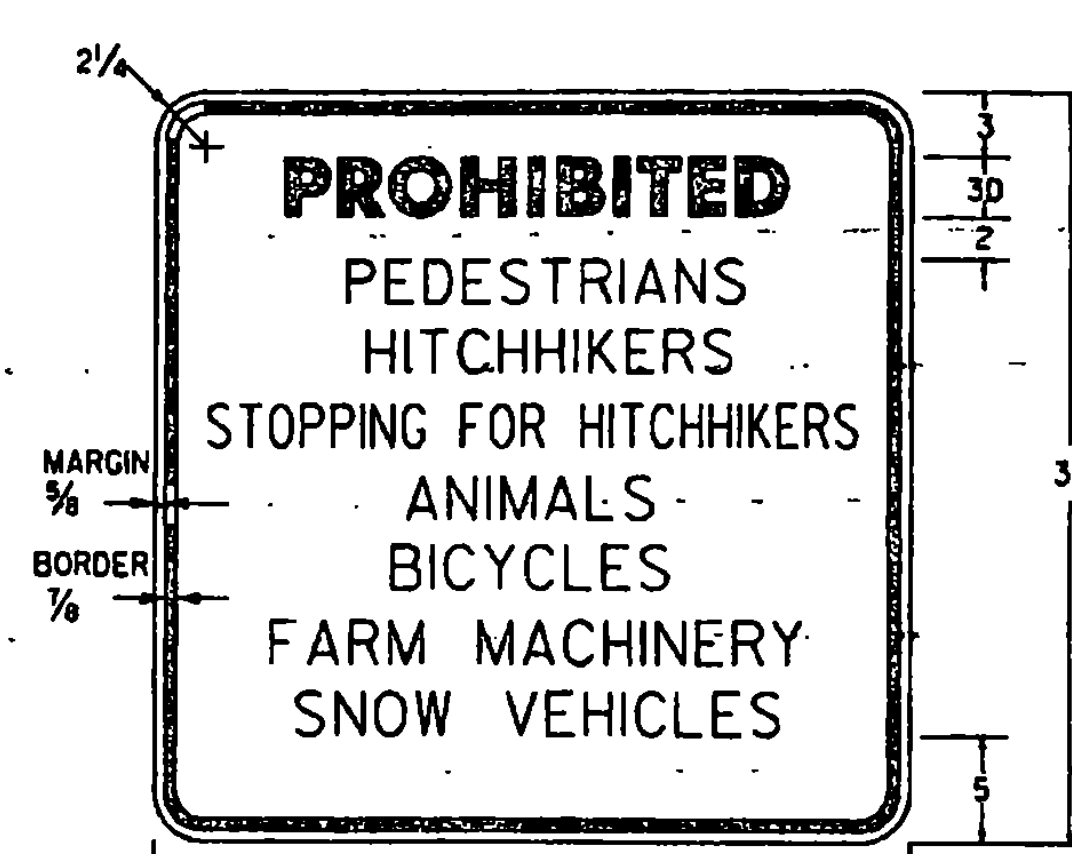
SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN	18	24	3/8	3/8	3	3E	2	8E	1/2	7%	5 1/2
STD	24	30	3/8	3/8	4	4E	2	10E	1/2	9%	7 1/8
EXPWY	36	48	3/8	3/8	6	6E	5	14E	2 1/4	14%	11
FWY	48	60	3/4	1/4	8	8E	4	20E	3	19 1/8	14%



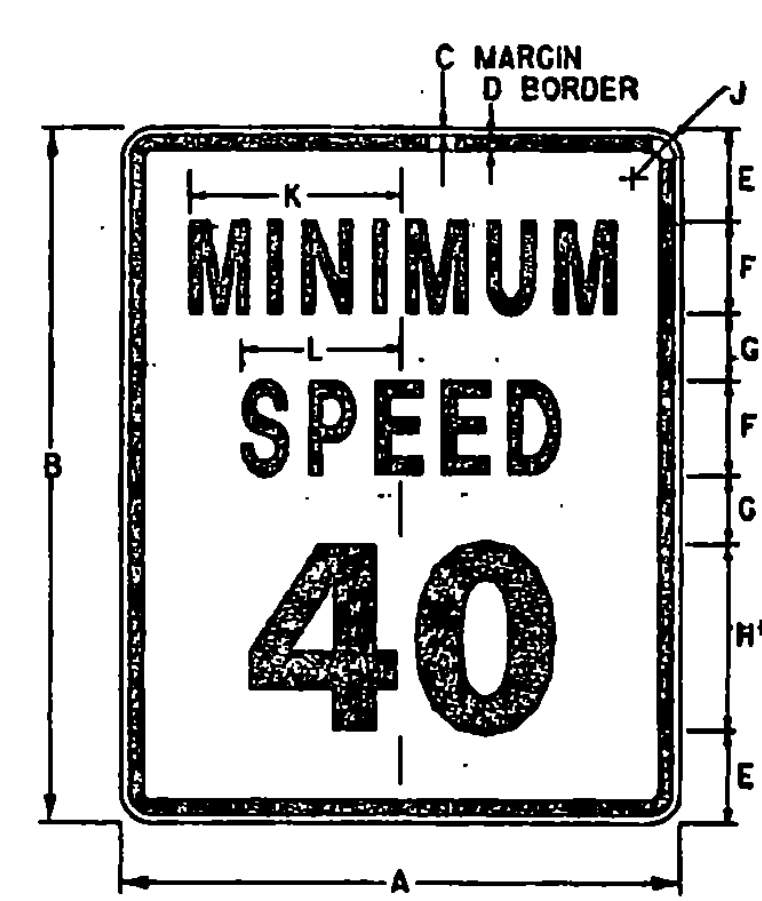
TO BE USED WITH "SPEED LIMIT 55" OR "65" FWY SIGN ONLY
VR-141



TEXT 4" C, SPACING 2"
VR-002



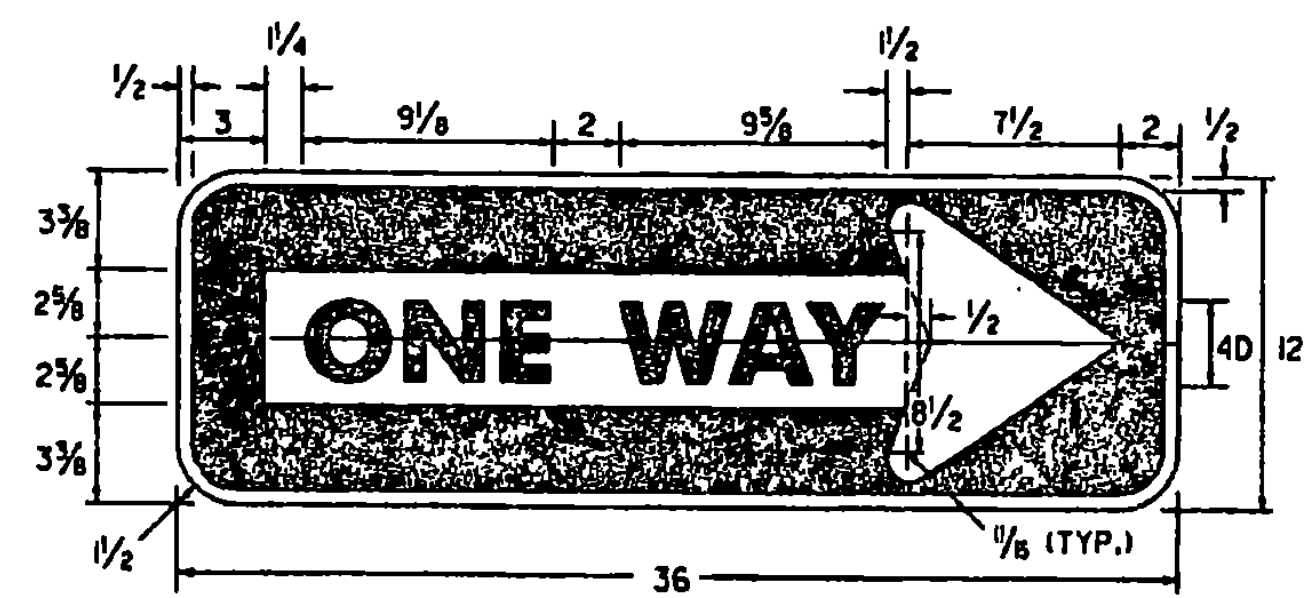
TEXT 2" C, SPACING 1/2", EXCEPT WHERE NOTED.
VR-046



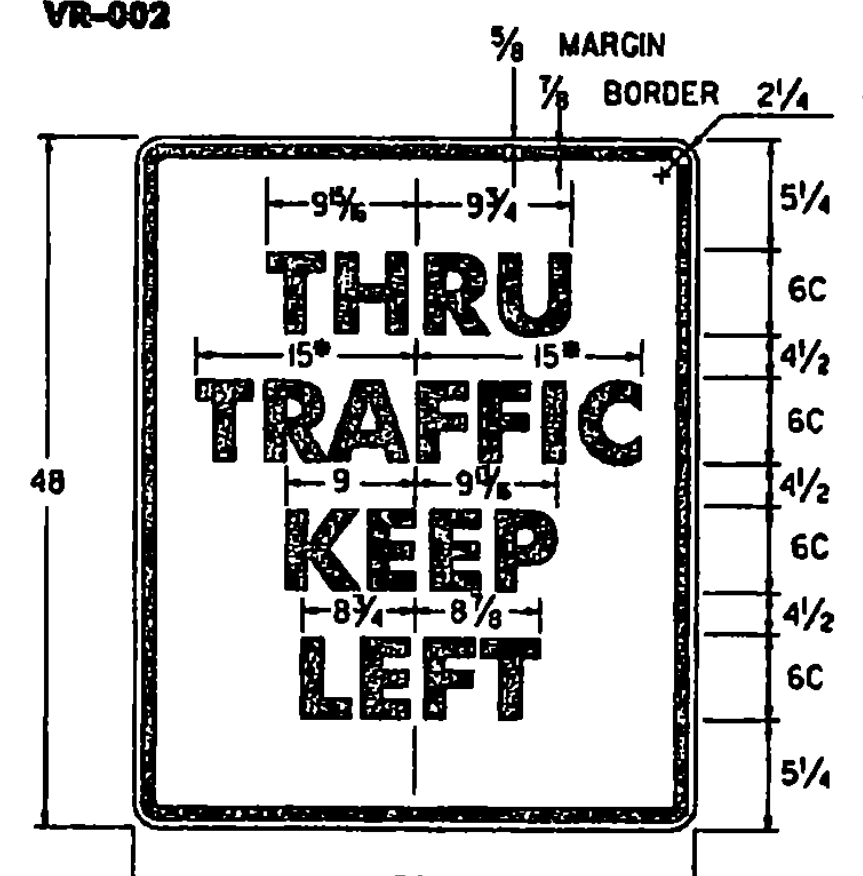
* OPTICALLY SPACE NUMERALS ABOUT VERTICAL CENTERLINE.

R2-4

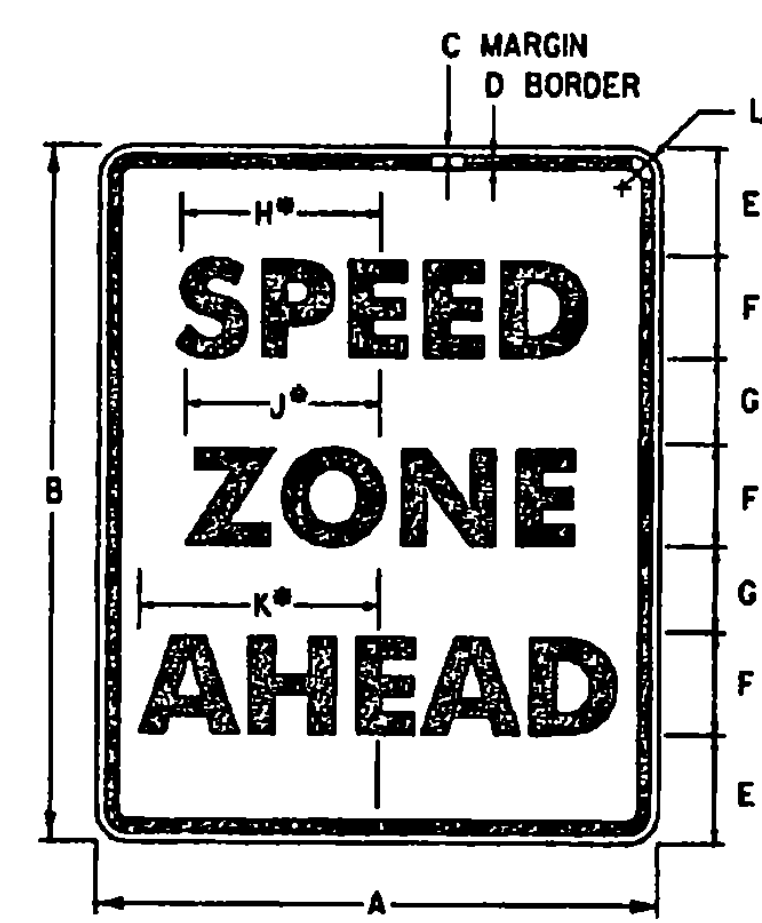
SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
STD	24	30	3/8	3/8	4	4E	2	10E	1/2	9%	6 3/8
EXPWY	36	48	3/8	3/8	6	6E	5	14E	2 1/4	13 3/4	10 3/8
FWY	48	60	3/4	1/4	8	8E	4	20E	3	18 3/8	13 3/8



R2-1R



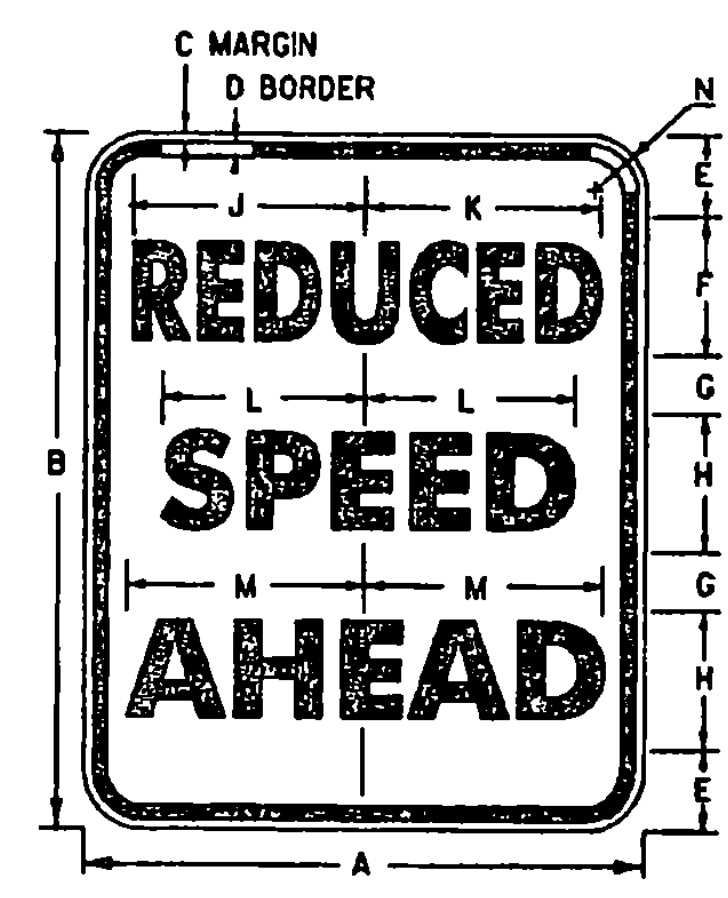
* REDUCE SPACING 25 %
VR-118L



* FOR STD SIZE, REDUCE SPACING 40 %

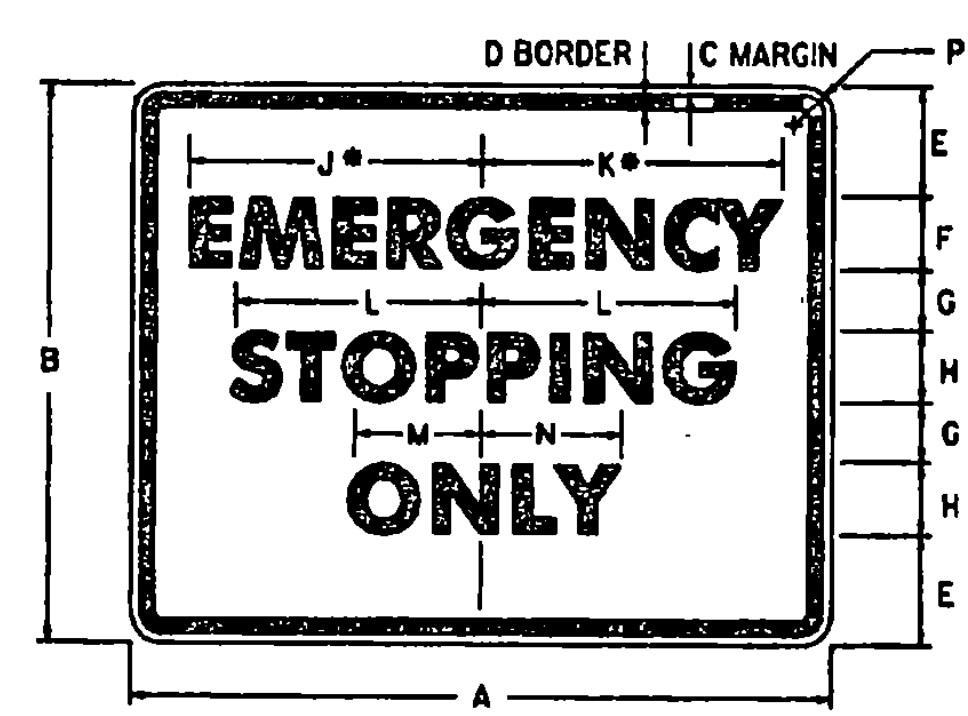
R2-3C

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN.	18	24	3/8	3/8	3 1/2	4C	2 1/2	6 3/8	5 1/2	7	1 1/2
STD.	24	30	3/8	3/8	3 1/2	6C	2 1/2	9 3/8	7 3/8	9 1/4	1 1/2
EXPWY.	36	48	3/8	3/8	7	8C	5	13 3/8	11 3/8	14	2 1/4
FWY.	48	60	3/4	1/4	9	10C	6	17	13 3/8	17 1/2	3



R2-3A

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	N
MIN.	18	24	3/8	3/8	3 1/2	4B	2 1/2	4C	6 3/8	7	6 3/8	7	1 1/2
STD.	24	30	3/8	3/8	3 1/2	6B	2 1/2	6C	10	10 3/4	9 3/8	9 3/4	1 1/2
EXPWY.	36	48	3/8	3/8	7	8B	5	8C	14 1/4	14 3/4	13 3/8	14	2 1/4
FWY.	48	60	3/4	1/4	9	10B	6	10C	17 3/4	18 3/8	17	17 1/2	3



* FOR FWY SIZE, REDUCE SPACING 50 %
R2-7

SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
EXPWY.	30	24	3/8	3/8	3 1/2	4C	2 1/2	4D	12 1/2	13	12 3/4	6 3/8	7	1 1/2
FWY.	48	36	3/8	3/8	5	6D	4	6D	20 3/8	21 3/8	19 3/8	10 3/8	10 3/8	2 1/4

GENERAL:

1. ALL DIMENSIONS IN INCHES.

COLORS:

THE REGULATORY SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT ON REFLECTORIZED WHITE BACKGROUND, UNLESS OTHERWISE NOTED. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS:

THE SIGN BASE MATERIALS USED FOR REGULATORY SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING OF THE MINIMUM THICKNESS NOTED.

		36" X 12"
		36" X 36"
		36" X 48"
		48" X 36"
		48" X 48"
		48" X 60"
18' X 24'	24' X 30'	30' X 24'
0.060"	0.080"	0.100"
1/2"	1/2"	5/8"
18 GAGE	16 GAGE	14 GAGE

THE REFLECTIVE MATERIAL FOR GROUND MOUNTED SIGNS SHALL BE AASHTO TYPE II OR III WHITE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE TEXT OF THE SIGNS MAY BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. HAND PAINTING MUST BE COMPARABLE IN QUALITY TO THE RESULTS OBTAINED BY SILK SCREENING.

SPECIFICATIONS:

REGULATORY SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR TRAFFIC SIGNS.

TEXT DESIGN:

LETTERS, DIGITS, ARROWS, SPACING AND TEXT DIMENSIONS SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AND DESIGNS PRESCRIBED IN THE STANDARD HIGHWAY SIGNS AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

OTHER STDS.: NONE REQUIRED

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
SEPT. 20, 1995 - ADDED AND DELETED SIGN DETAILS, ADDED SIGN ID NUMBERS, MINOR NOTE REVISIONS.

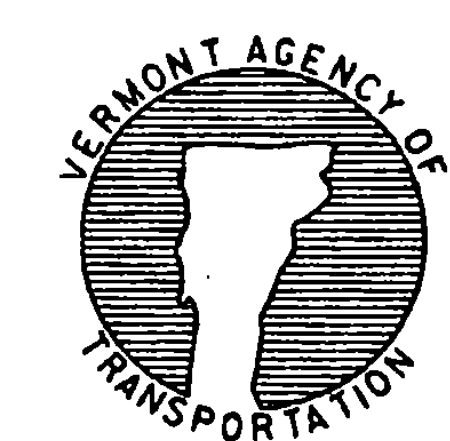
APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION. FHWA FINAL APPROVAL PENDING.

APPROVED

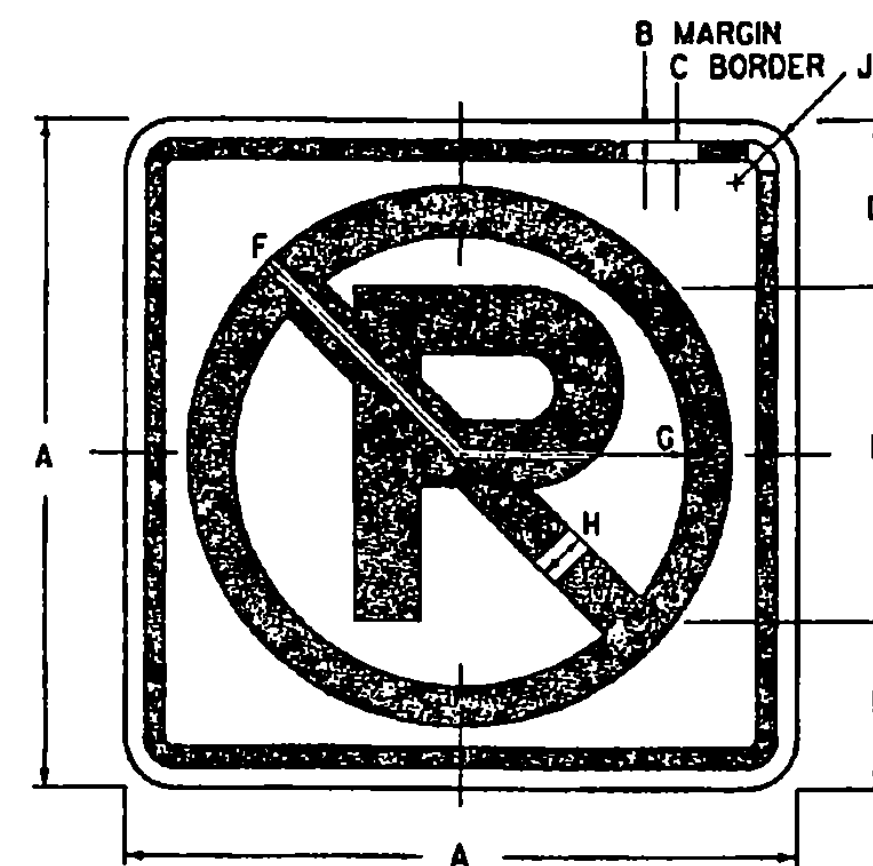
Stephen R. McAllen
DIRECTOR OF ENGINEERING

David A. Ann
TRAFFIC AND SAFETY ENGINEER

REGULATORY SIGN
DETAILS



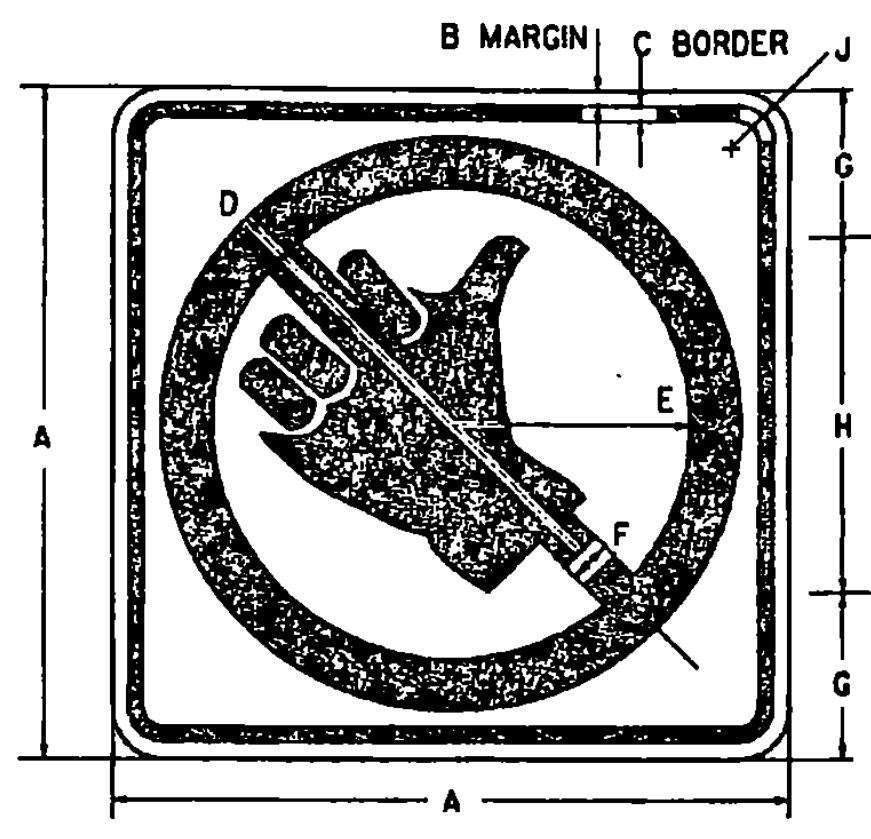
STANDARD
E-142



COLORS
 CIRCLE AND DIAGONAL - RED (REFL - RURAL)
 SYMBOL AND BORDER - BLACK (NON - REFL)
 BACKGROUND - WHITE (REFL - RURAL)

R2-3A

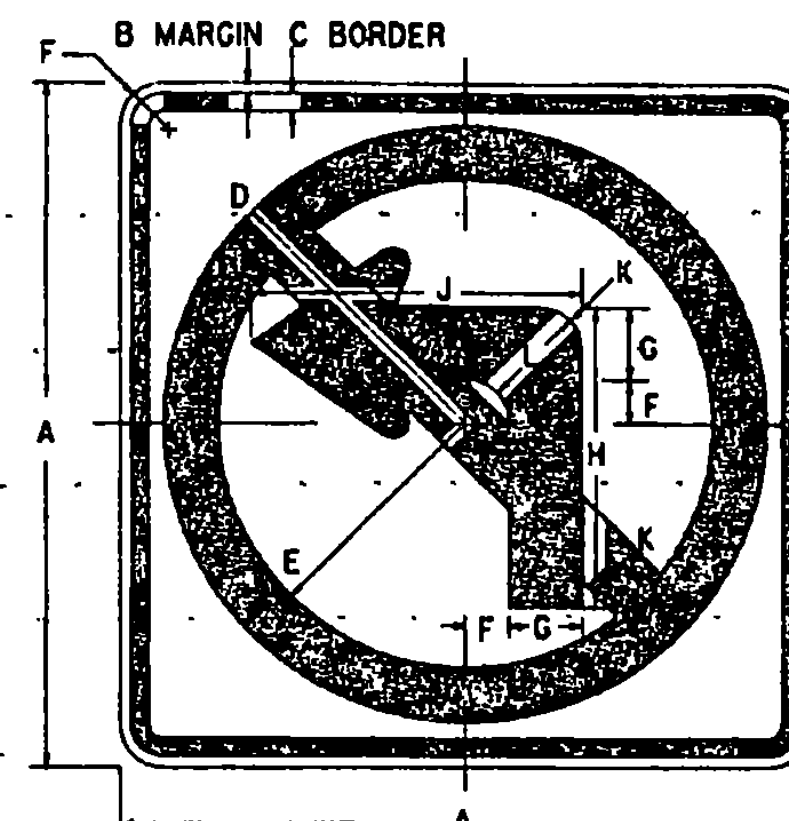
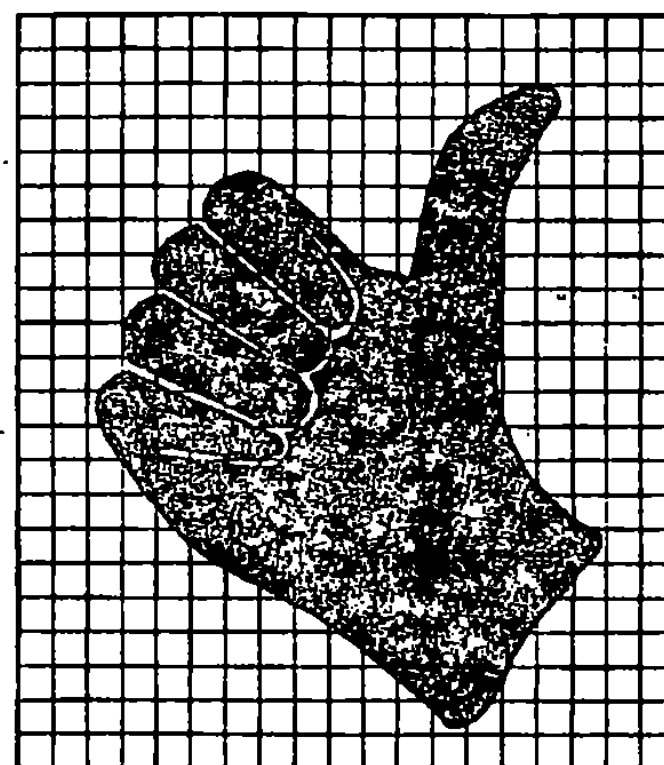
SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J		
URBAN MIN. AND STD.	12	3/8	3/8	3	6E(M)	4 7/8	3 3/8	1	1 1/2		
RURAL MIN. AND STD.	24	3/8	3/8	6	12E(M)	10 1/2	8 1/2	2	1 1/2		
EXPWY.	36	3/8	3/8	9	18E(M)	15 3/4	12 3/4	3	2 1/4		
FWY.	48	3/4	1/4	12	24E(M)	21	17	4	3		



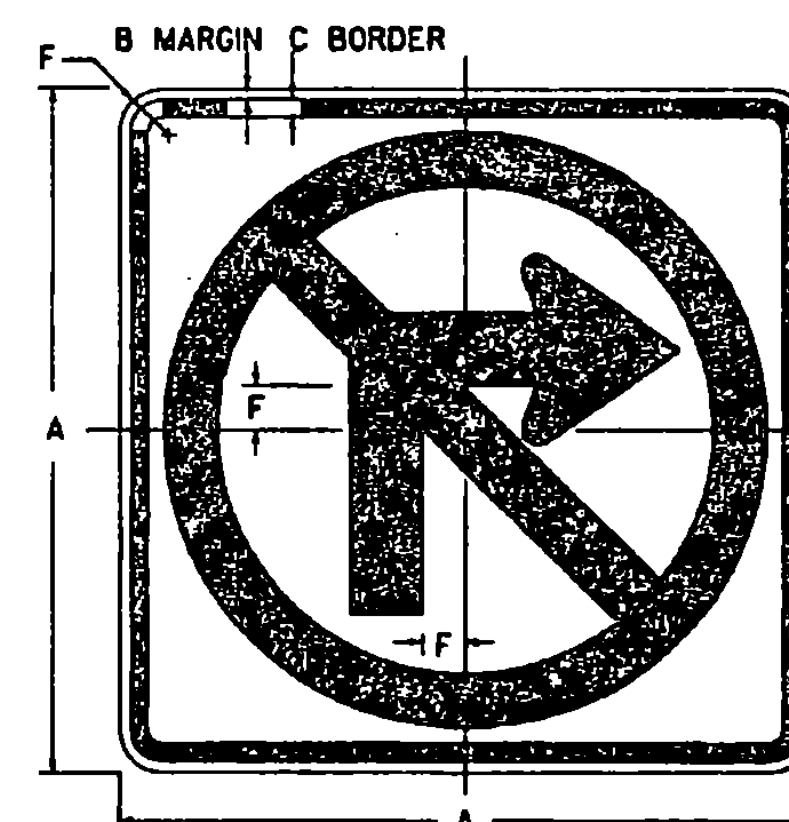
COLORS
 CIRCLE AND DIAGONAL - RED (REFL)
 SYMBOL AND BORDER - BLACK (NON - REFL)
 BACKGROUND - WHITE (REFL)

R2-4A

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J		
MIN.	18	3/8	3/8	7 1/8	6 3/4	1 1/2	3 3/4	10 1/2	1 1/2		
STD.	24	3/8	3/8	10 1/2	8 1/2	2	5	14	1 1/2		



R3-2

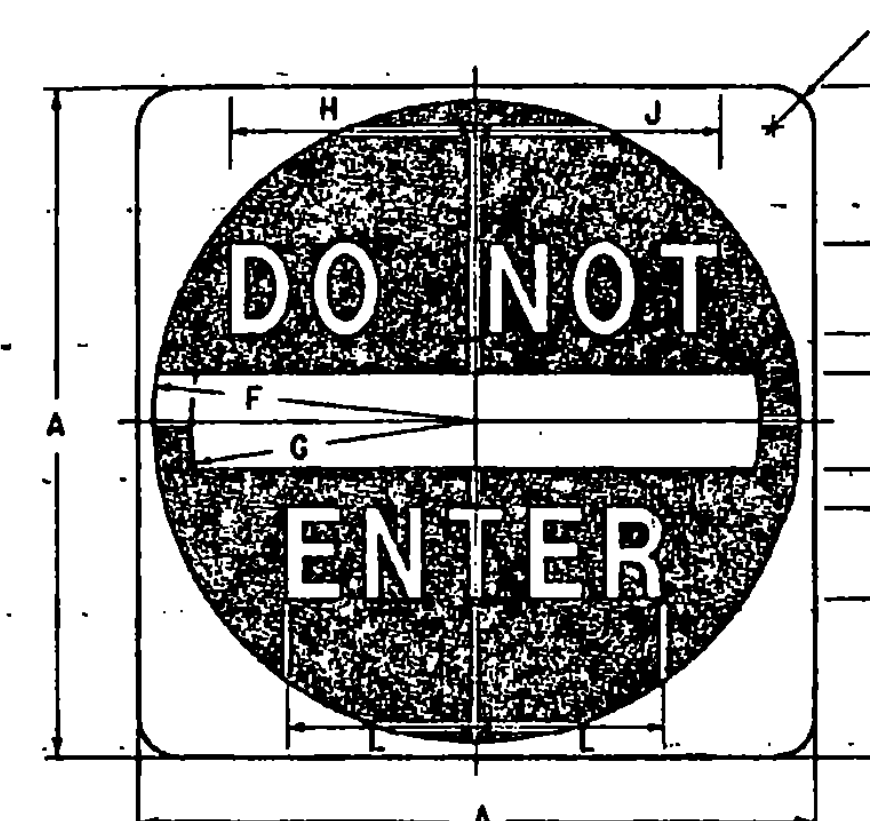


R3-1

NOTE:
 USE SAME ARROW DETAIL FOR R3-1 AND R3-2

COLORS
 CIRCLE AND DIAGONAL - RED (REFL)
 ARROW AND BORDER - BLACK (NON - REFL)
 BACKGROUND - WHITE (REFL)

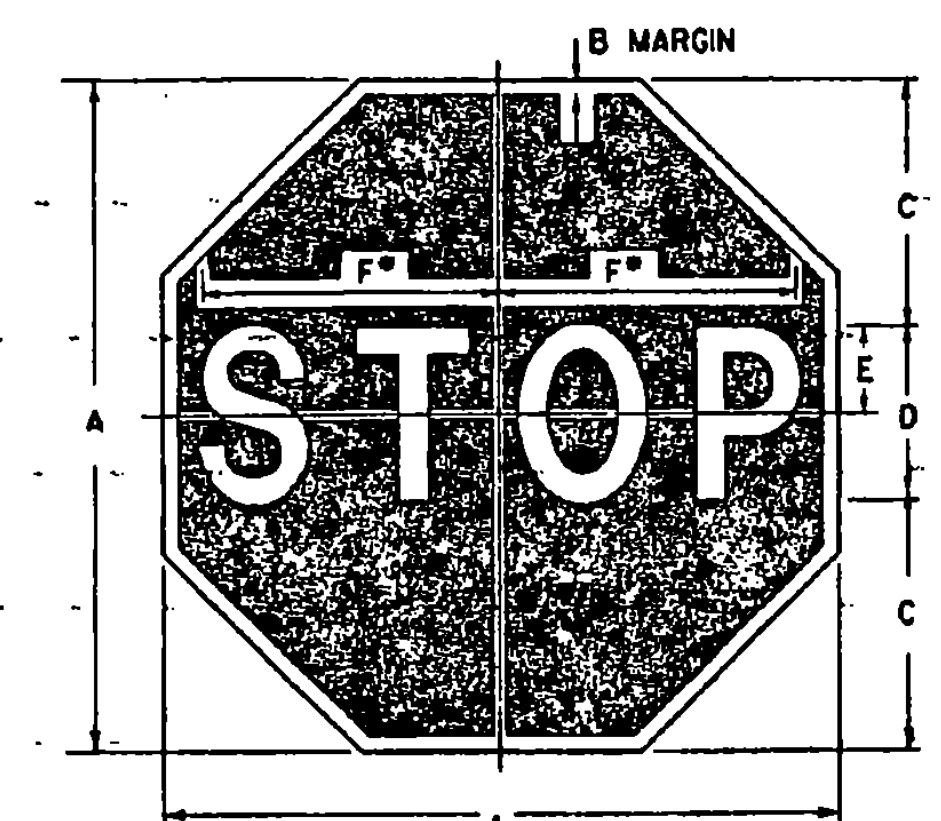
SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN. AND STD.	24	3/8	3/8	10 1/2	8 1/2	1 1/2	2 1/2	10 1/2	1 1/2	2	1 1/2
SPECIAL	30	1/2	3/4	13 1/8	10 3/8	1 1/4	3 1/8	13 1/4	1 1/4	2 1/2	3/4
EXPWY.	36	3/8	3/8	15 3/4	12 3/4	2 1/4	3 3/4	15 3/4	1 1/4	3	3/4
SPECIAL	48	3/4	1 1/4	21	17	3	5	21	2 3/4	4	1



COLORS
 SYMBOL - RED (REFL)
 LEGEND AND BACKGROUND - WHITE (REFL)
 ENCAPSULATED LENS

R5-1

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN. AND STD.	30	6 1/2	4D	2	5	14 1/2	12 1/2	9 3/4	10	1 1/8	7 3/8
EXPWY.	36	7 1/2	5D	2 1/2	6	17 1/2	15	12	12 3/8	2 1/4	8 3/8
SPECIAL	48	11	6D	3	8	23 1/2	20	14 1/2	15	3	11 3/4



• REDUCE SPACING 40 %

COLORS
 LEGEND - WHITE (REFL)
 BACKGROUND - RED (REFL)
 ENCAPSULATED LENS

R1-1

SIGN	DIMENSIONS (INCHES)					
	A	B	C	D	E	F
BIKE	18	3/8	6	6C	3	7 3/4
MIN.	24	3/8	8	8C	4	10
STD.	30	3/4	10	10C	5	12 1/2
EXPWY.	36	3/8	12	12C	6	15
SPECIAL	48	1 1/4	16	16C	8	20

GENERAL:

- ALL DIMENSIONS IN INCHES.
- SEE STANDARD E-144 FOR ARROWHEAD DETAILS.

COLORS:

THE REGULATORY SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT ON REFLECTORIZED THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS:

THE SIGN BASE MATERIALS USED FOR REGULATORY SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING OF THE MINIMUM THICKNESS NOTED.

	12' x 12'	24' x 24'	36' x 24'
FLAT SHEET ALUMINUM	0.060"	0.080"	0.100"
HIGH DENSITY OVERLAP PLYWOOD	1 1/2"	1 1/2"	5/8"
GALVANIZED FLAT SHEET STEEL	18 GAGE	16 GAGE	14 GAGE

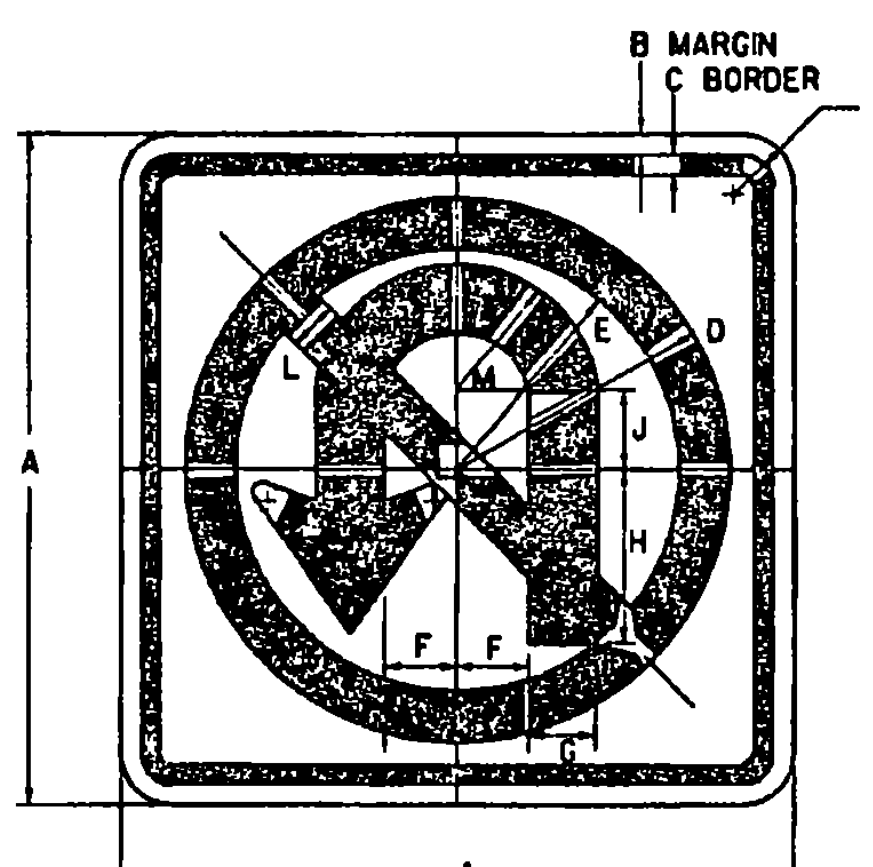
THE REFLECTIVE MATERIAL SHALL BE AASHTO TYPE II OR III WHITE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE BLACK PORTIONS OF THE SIGNS MAY BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. HAND PAINTING MUST BE COMPARABLE IN QUALITY TO THE RESULTS OBTAINED BY SILK SCREENING. ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR THE SIGN BACKGROUND WHERE NOTED.

SPECIFICATIONS:

REGULATORY SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR TRAFFIC SIGNS.

TEXT DESIGN:

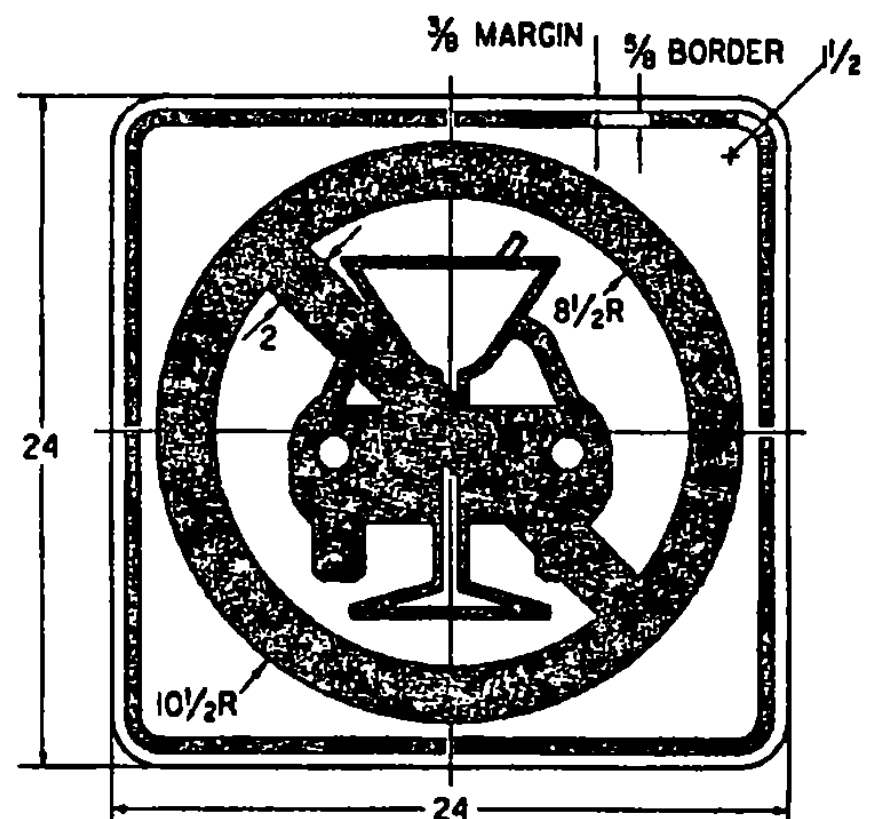
LETTERS, DIGITS, ARROWS, SPACING AND TEXT DIMENSIONS SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AND DESIGNS PRESCRIBED IN THE STANDARD HIGHWAY SIGNS AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



COLORS
 CIRCLE AND DIAGONAL - RED (REFL)
 ARROW AND BORDER - BLACK (NON - REFL)
 BACKGROUND - WHITE (REFL)

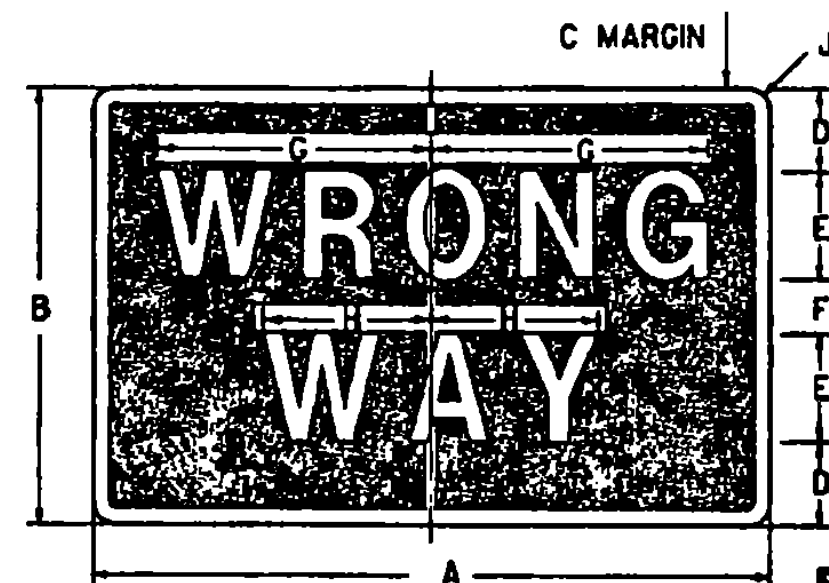
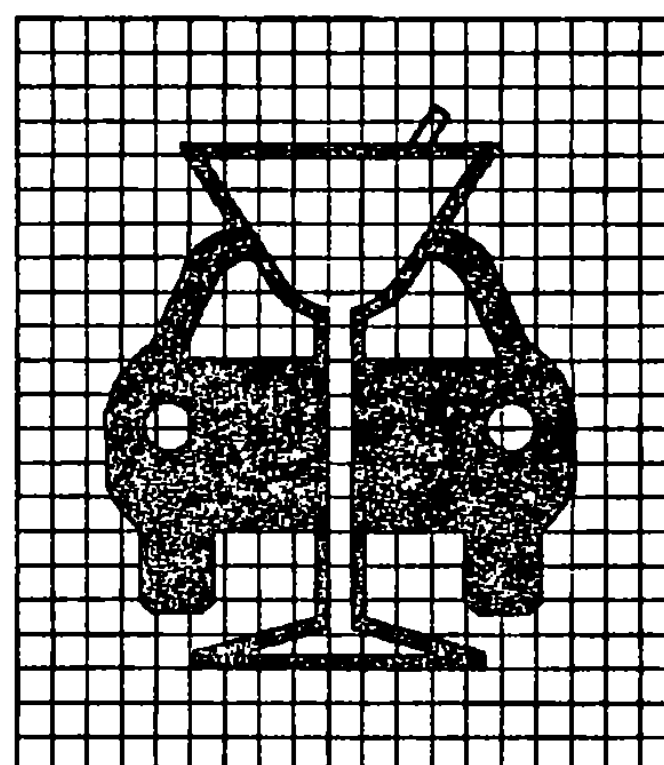
R3-4

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	
MIN. AND STD.	24	3/8	3/8	10 1/2	8 1/2	2 1/2	2 1/2	6	2 1/4	1 1/2	2	5	
SPECIAL	30	1/2	3/4	13 1/8	10 3/8	3 1/8	3 1/8	7 1/2	2 3/8	1 3/8	2 1/2	6 1/4	
EXPWY.	36	3/8	3/8	15 3/4	12 3/4	3 3/4	3 3/4	9	3 3/8	2 1/4	3	7 1/2	
SPECIAL	48	3/4	1 1/4	21	17	5	5	12	4 1/2	3	4	10	



COLORS
 CIRCLE AND DIAGONAL - RED (REFL)
 SYMBOL AND BORDER - BLACK (NON - REFL)
 BACKGROUND - WHITE (REFL)

VR-454



"WRONG WAY"

COLORS
 LEGEND - WHITE (REFL)
 BACKGROUND - RED (REFL)
 ENCAPSULATED LENS

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J		
MIN.	30	18	3/8	3	5D	2	11 1/8	6 3/8	1 1/2		
STD.	36	24	3/4	4 1/2	6D	3	13 3/8	8 1/8	1 1/2		
SPECIAL	42	30	3/8	5	8D	4	17 1/4	10 3/4	1 1/2		

R5-1A

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
 SEPT. 20, 1995 - ADDED AND DELETED SIGN DETAILS,
 ADDED SIGN ID NUMBERS, MINOR NOTE REVISIONS.

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

APPROVED

Samuel B. McArthur
 DIRECTOR OF ENGINEERING

David J. San
 TRAFFIC AND SAFETY ENGINEER

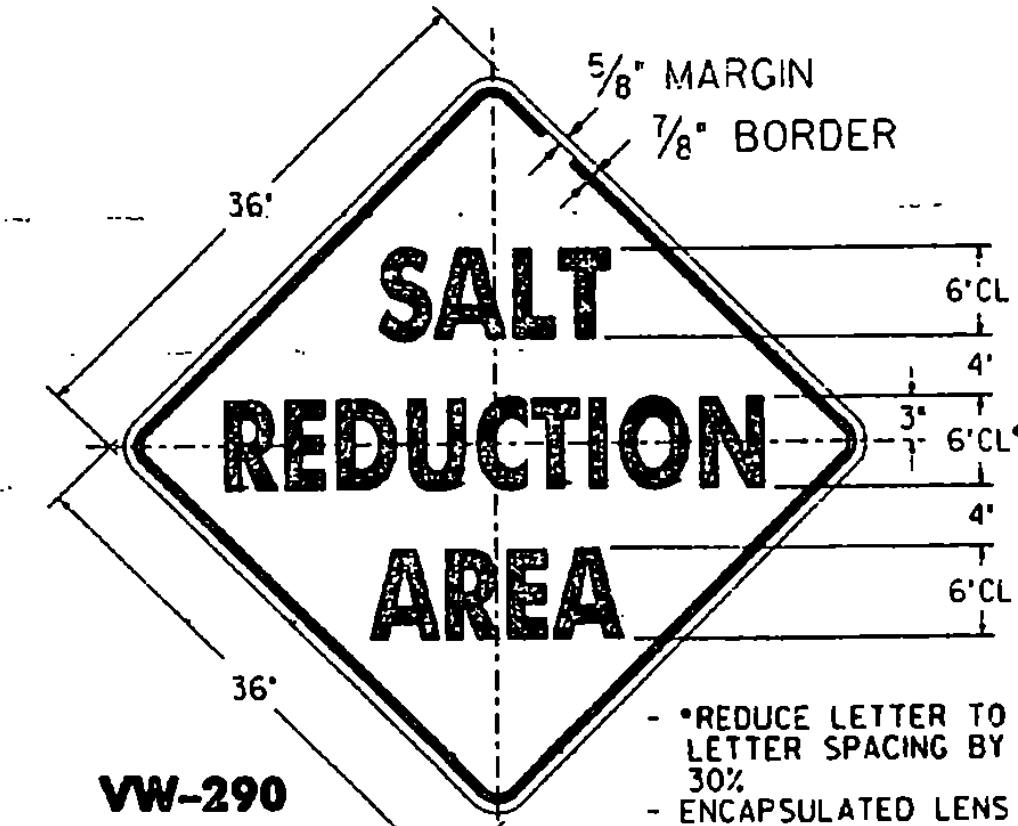
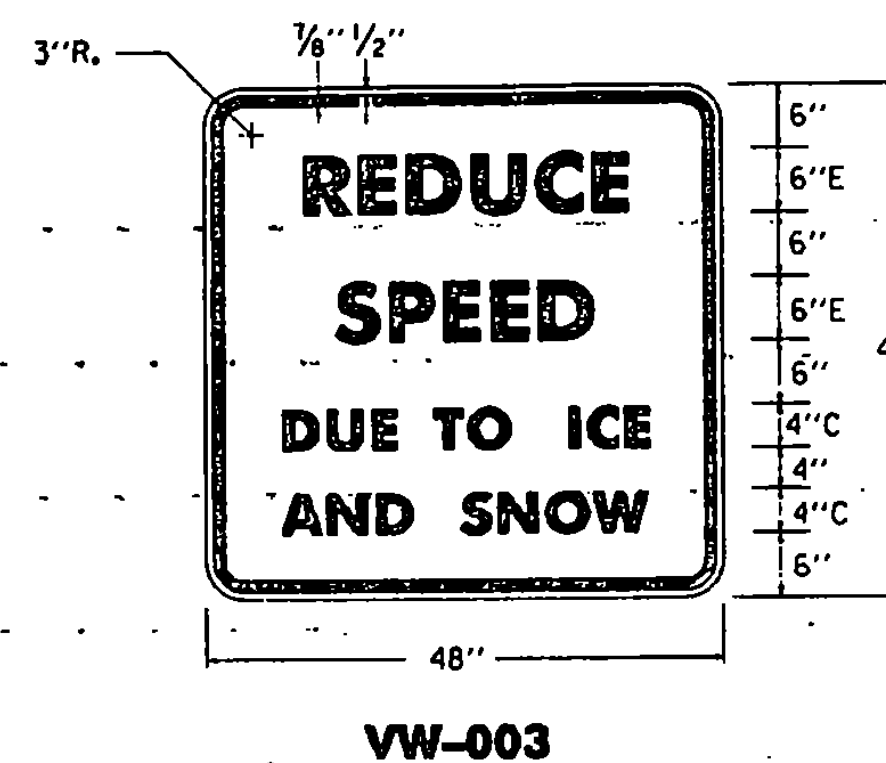
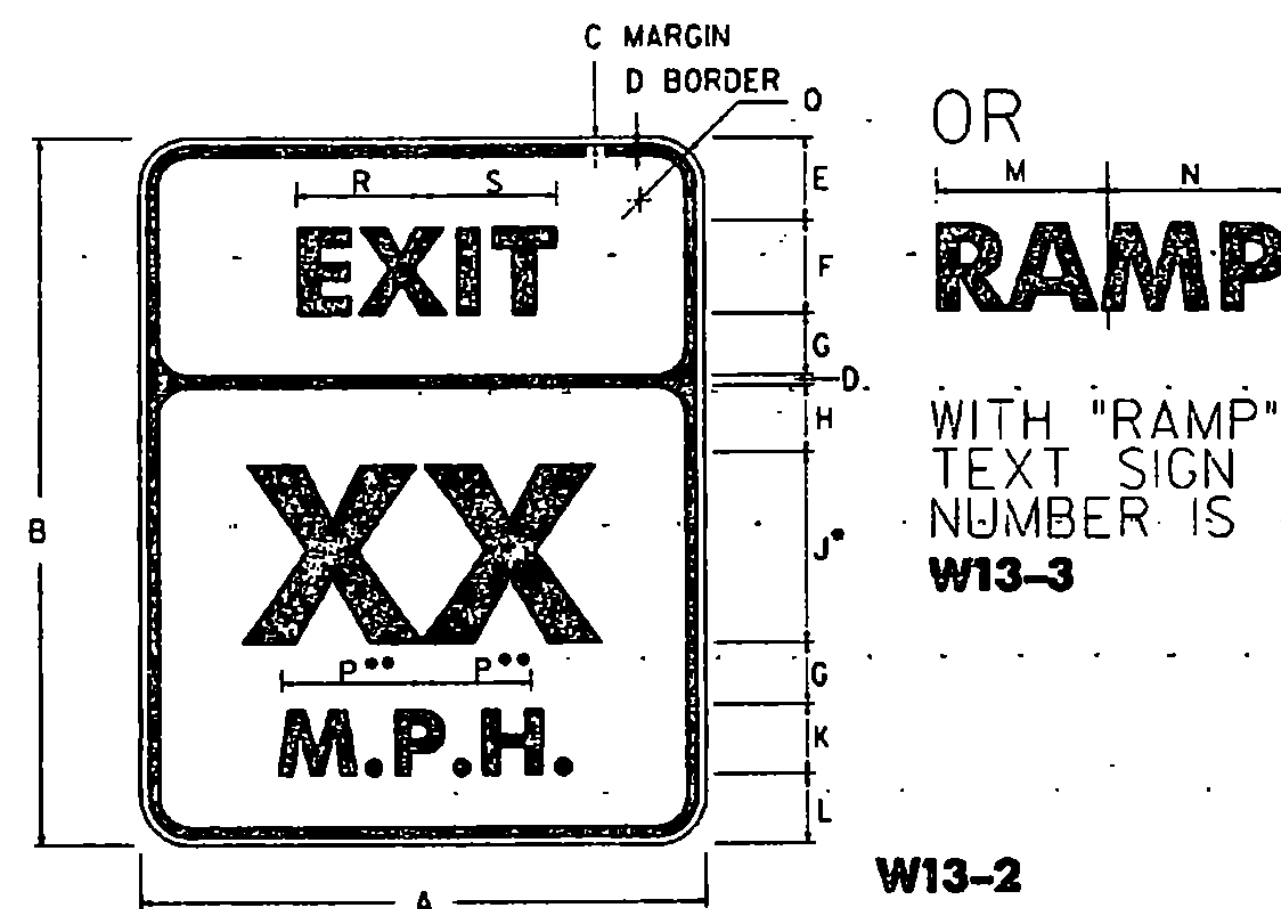
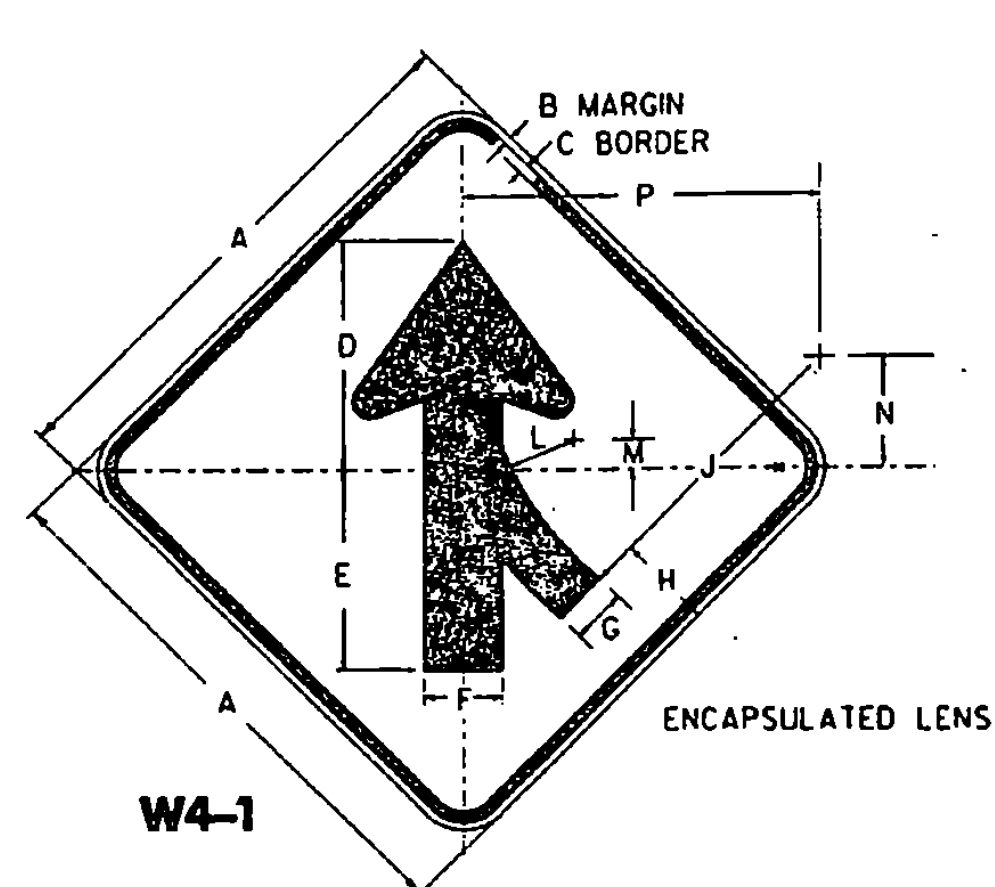
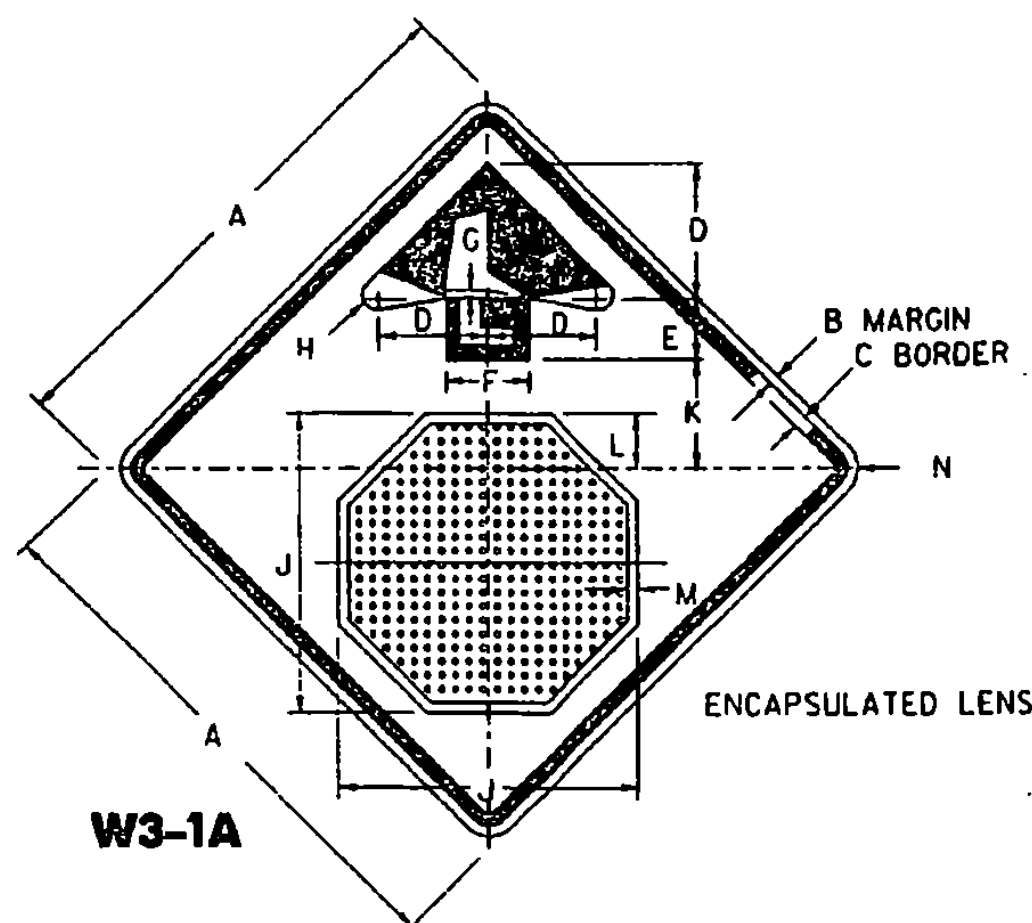
**REGULATORY SIGN
 DETAILS**

/traf/std/stdel43.dgn | stdel43.1

**OTHER STDs: E-144
 REQUIRED**



**STANDARD
 E-143**



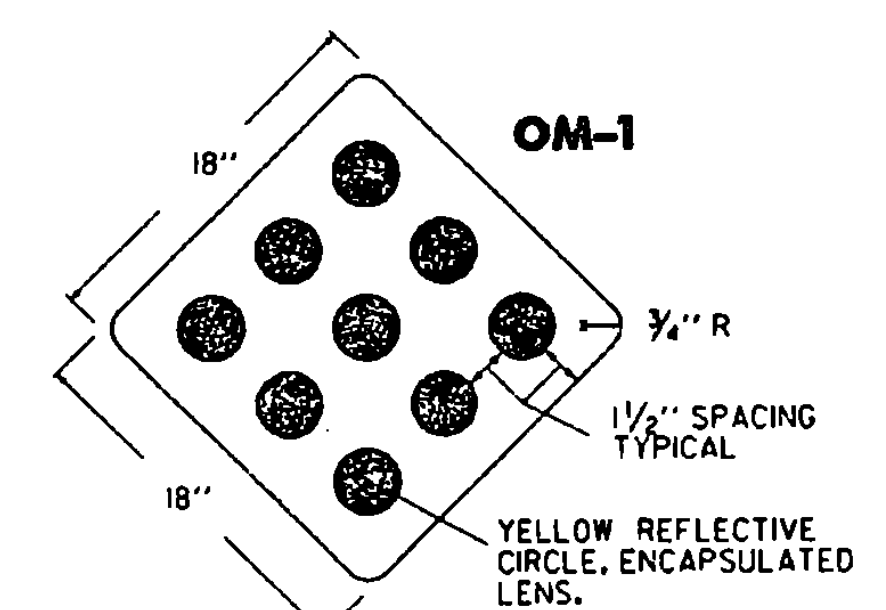
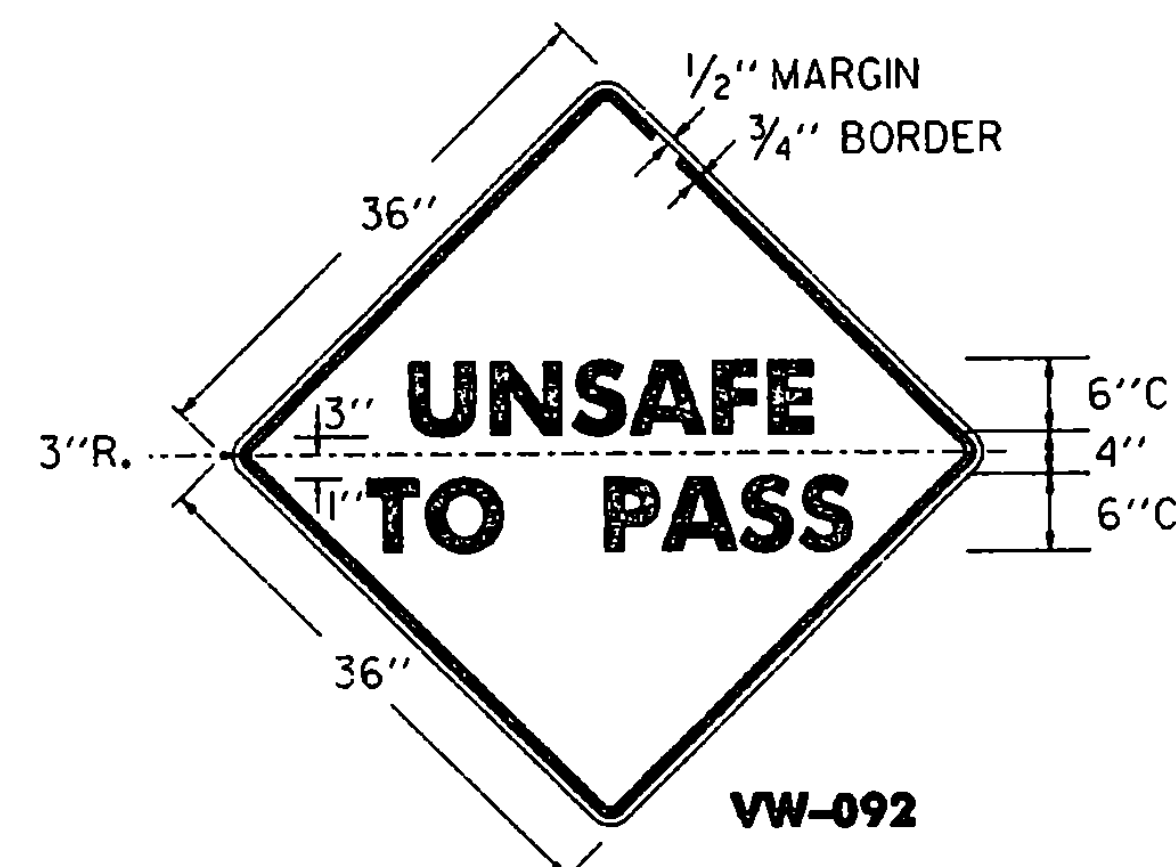
COLORS
 BORDER AND ARROW - BLACK (NON-REFL)
 SYMBOL - WHITE BORDER ON RED BACKGROUND (REFL)

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	N
MIN.	30	1/2	3/4	7/2	3 3/4	5	5/8	3/4	15 3/4	6 1/4	2 7/8	1/2	1 1/4
STD.	36	3/8	1	9	4 1/2	6	3/4	3/8	19	7 1/2	3 1/2	3/8	2 1/4
SPECIAL	48	3/4	1 1/4	12	6	8	1	1/2	25 1/4	10	4 1/2	3/4	3

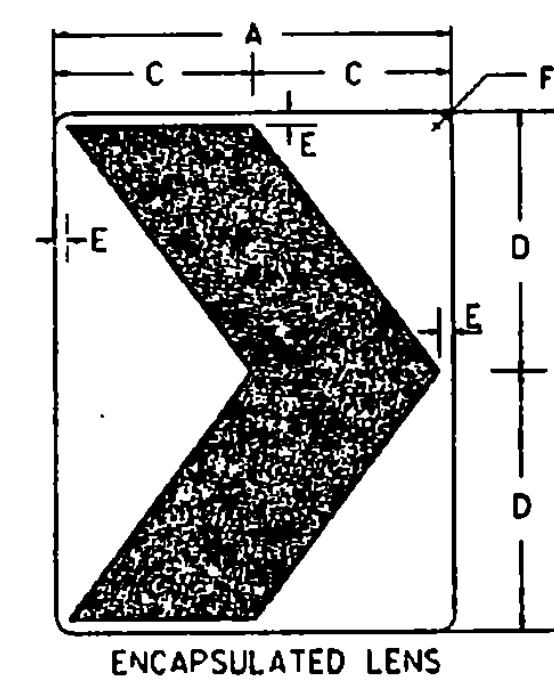
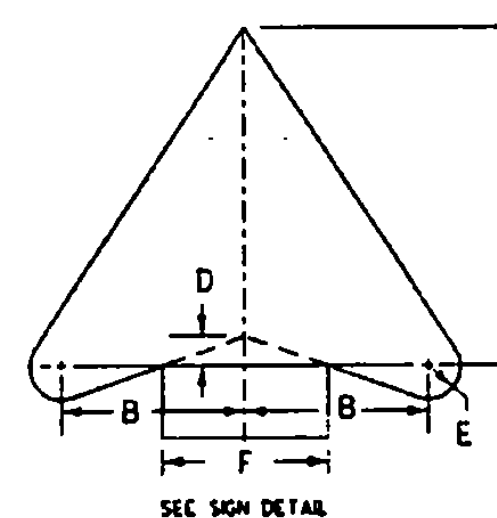
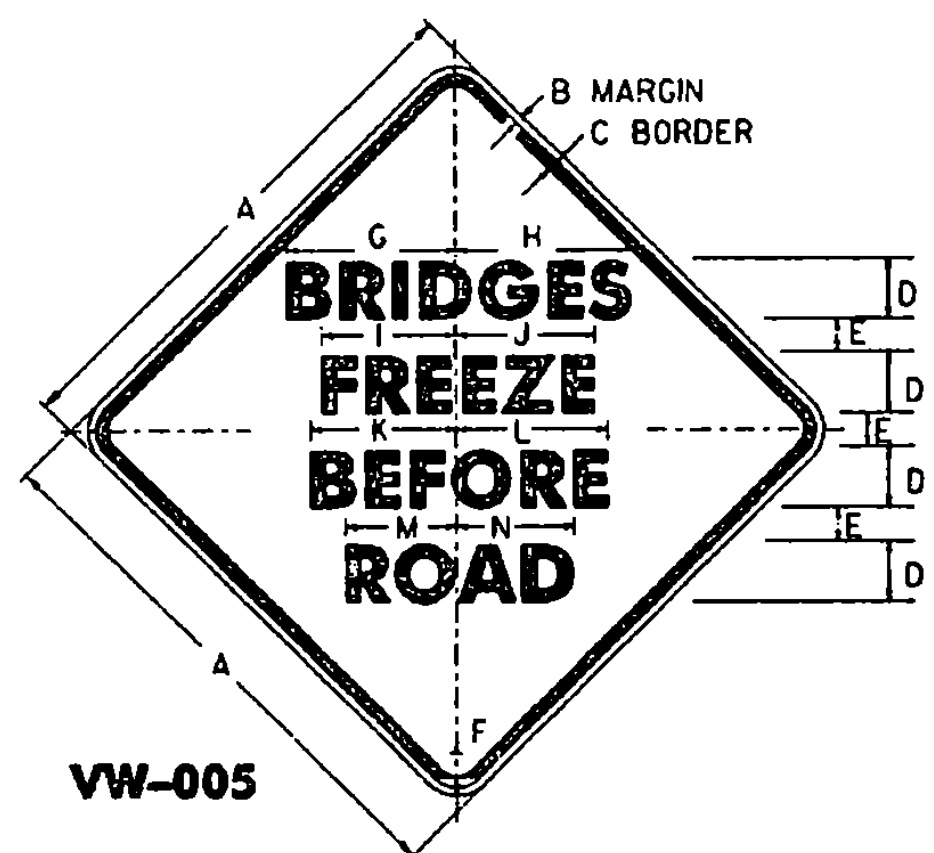
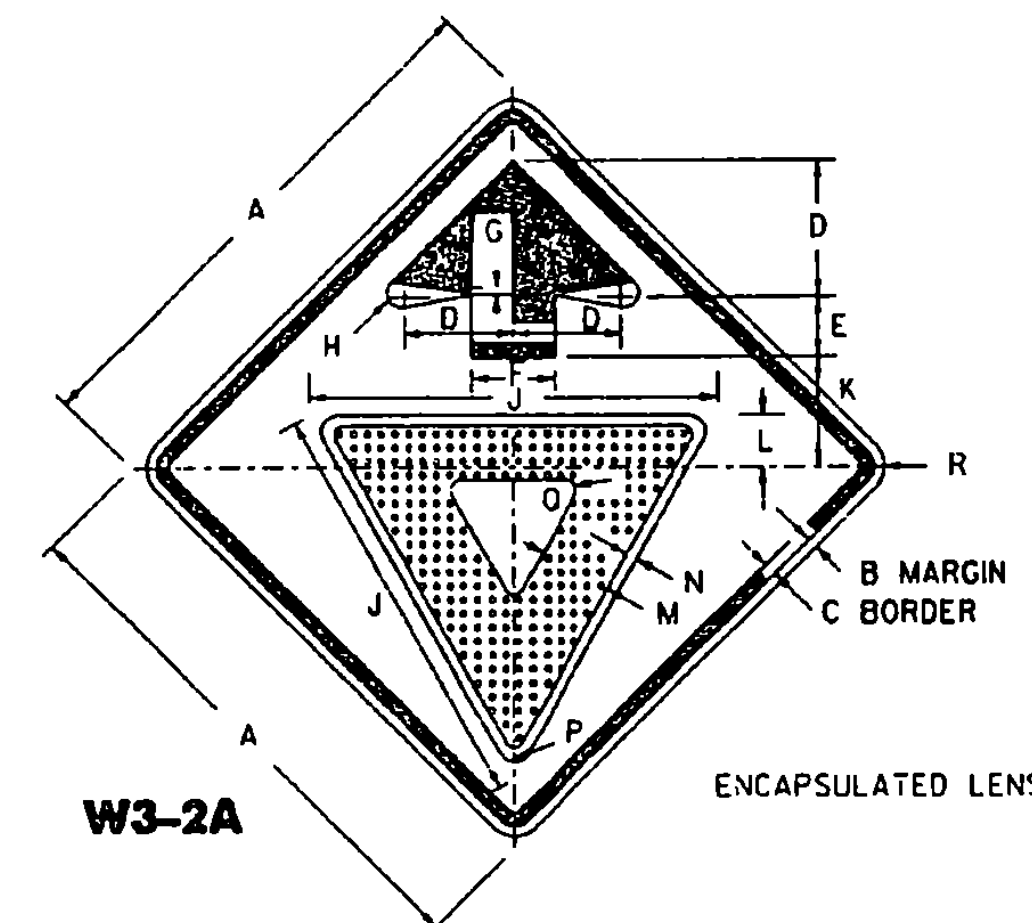
SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	N
MIN.	24	3/8	3/4	10 1/4	8 3/4	3 1/2	4 3/4	22 1/4	1 1/2	6 3/4	2 3/8	10 3/8	22 3/8
STD.	30	1/2	3/4	13	11	4 3/4	3	5 1/4	28	1 3/8	8	3	13
EXPWY.	36	3/8	7/8	15 1/2	13 1/2	5 1/4	3 3/8	6 3/4	33 3/4	2 1/4	9 3/8	4	15 3/8
FWY.	48	3/4	1 1/4	20 1/2	17 1/2	7	4 3/8	8 3/4	45	3	12 3/4	5 1/4	20 3/4

- *OPTICALLY SPACE NUMBERS ABOUT VERTICAL CENTERLINE
 - **INCREASE SPACING 100%
 - THE "RAMP" SPEED SIGN IS USED ON RAMPS LEADING FROM ONE FREEWAY TO ANOTHER AND THE "EXIT" SPEED SIGN IS USED ON NORMAL EXITS.

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	N
MIN. & STD.	24	30	3/8	3/8	3 1/2	4E	2 1/2	2 7/8	8E	3E	3	8 1/4	8 1/2
EXPWY.	36	48	3/8	3/8	6	6E	4	5 1/8	12E	4E	6	12 3/4	12 3/4
FWY.	48	60	3/4	1 1/4	7	8E	5	5 3/4	16E	6E	6	16 1/2	17



HAZARD MARKERS SHALL BE OF 0.060 FLAT SHEET ALUMINUM OR 18 GAGE GALVANIZED FLAT SHEET STEEL, WITH A NON-REFLECTIVE YELLOW BACKGROUND AND NINE 4" DIA. CIRCLES EVENLY SPACED WITH MATERIALS AS NOTED ABOVE.



COLORS
 ALL THE WARNING SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT AND SYMBOLS ON REFLECTORIZED YELLOW BACKGROUND EXCEPT AS OTHERWISE NOTED. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS
 THE SIGN BASE MATERIALS USED FOR THE WARNING SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING, OF THE MINIMUM THICKNESS NOTED.

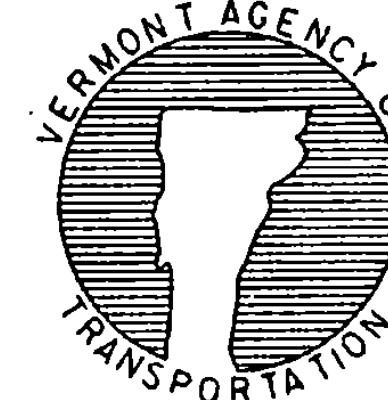
	24" x 24"	24" x 30"	36" x 36"	48" x 48"
FLAT SHEET ALUMINUM	0.060"	0.080"	0.100"	0.125"
HIGH DENSITY OVERLAP PLYWOOD	1/2"	3/4"	1"	1 1/4"
GALVANIZED FLAT SHEET STEEL	18 GAGE	16 GAGE	14 GAGE	12 GAGE

THE TEXT, BORDER, AND SYMBOL SHALL BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. WHEN HAND PAINTED, POOR WORKMANSHIP SHALL BE CAUSE FOR REJECTION. ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR THE SIGN BACKGROUND WHERE NOTED.

TEXT DESIGN
 LETTERS, DIGITS, SYMBOLS, SPACINGS, AND TEXT DIMENSIONS SHALL CONFORM WITH THE STANDARD ALPHABETS AND DESIGNS PRESCRIBED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS
 WARNING SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR "TRAFFIC SIGNS".

OTHER STDS. REQUIRED:



STANDARD
E-150

REVISIONS AND CORRECTIONS
 OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
 AUG. 08, 1995 - ADDED SIGN DETAIL AND I.D. NUMBER FOR EACH DETAIL

APPROVED

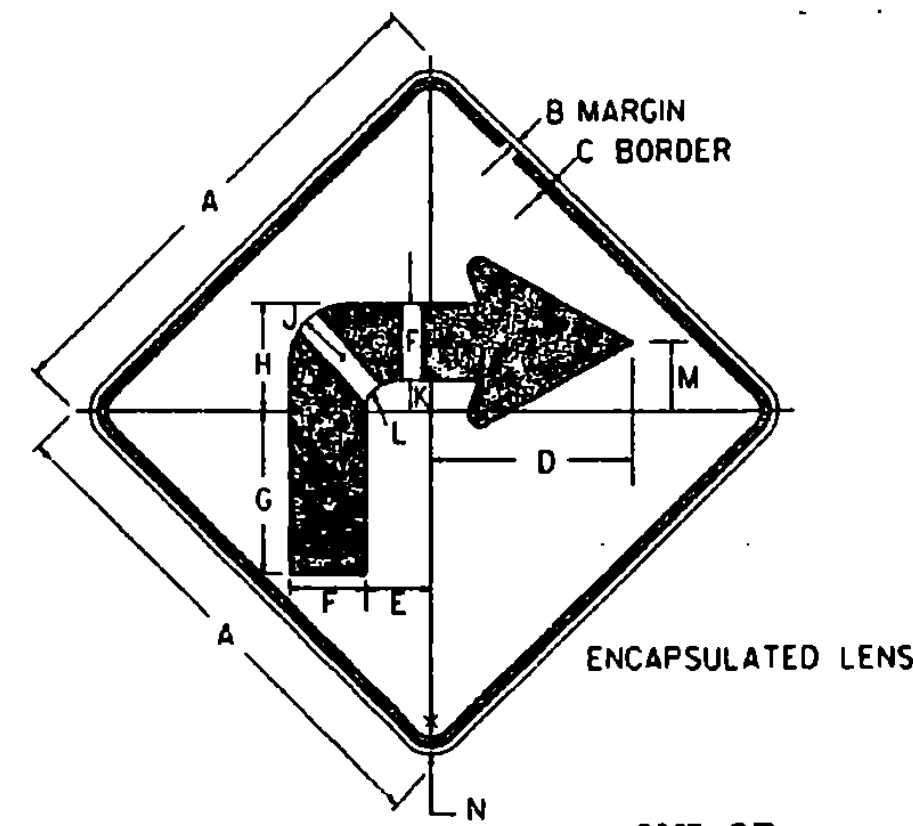
Stephen D. McAllen
 DIRECTOR OF ENGINEERING

David A. Row
 TRAFFIC AND SAFETY ENGINEER

WARNING SIGN
DETAILS

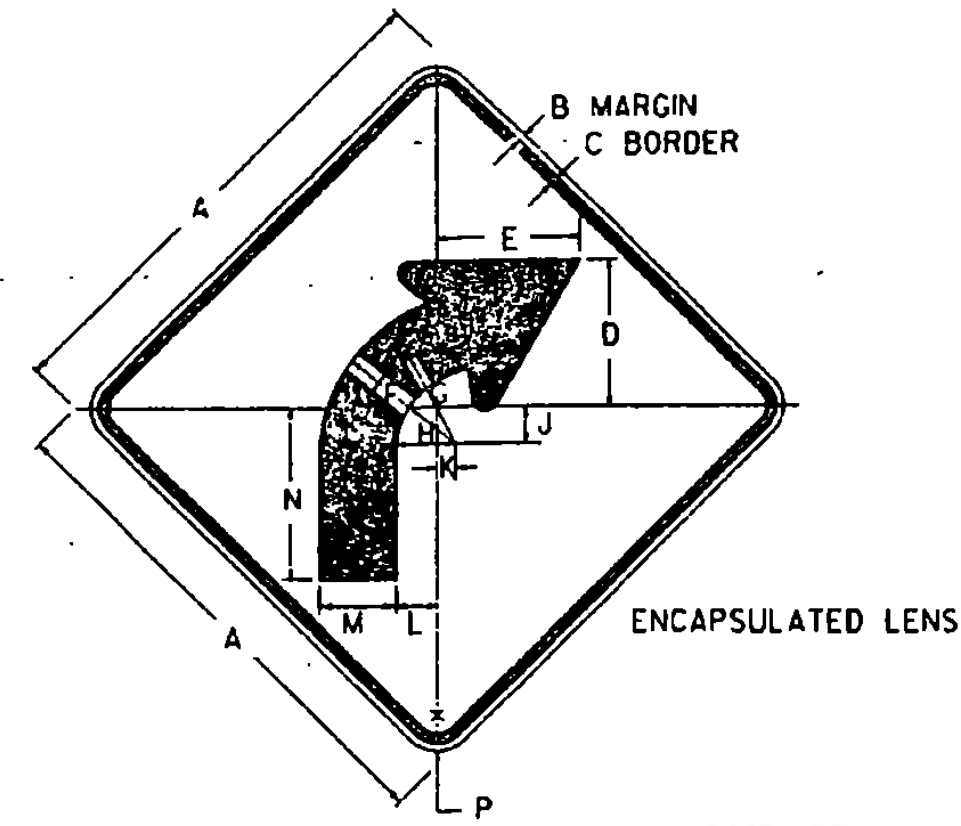
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APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.



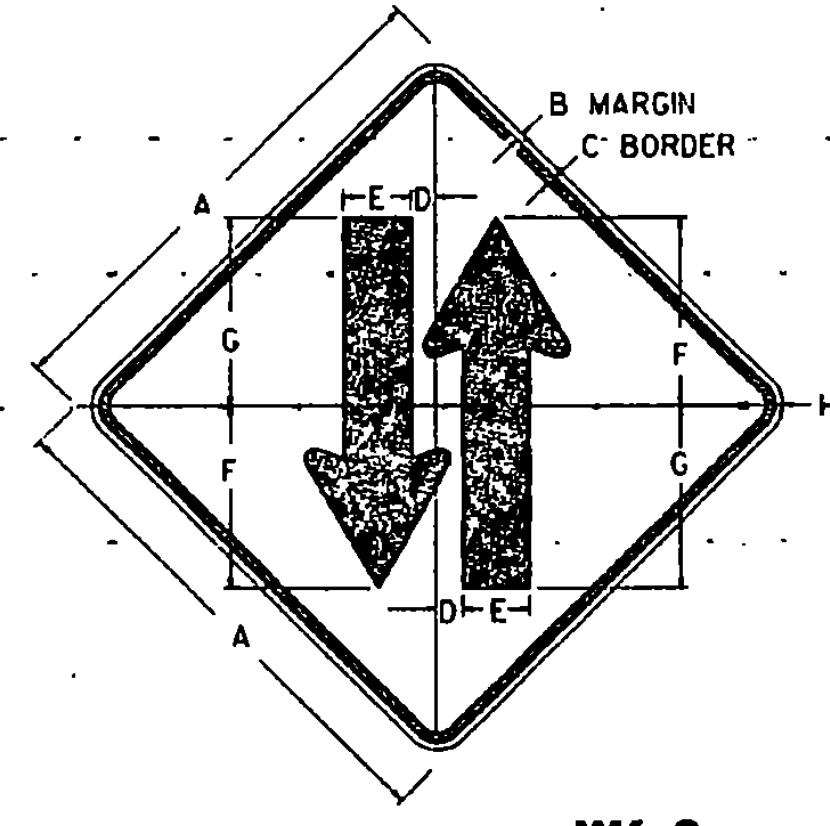
W1-1R

SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	
BIKE	18	3/8	3/8	7/4	2 1/4	2 3/8	5 1/8	3 3/4	1 1/8	1	5/8	2 1/2	1 1/2	
MIN.	24	3/8	3/8	9 3/8	3	3 1/2	7 3/4	5	2 1/2	1 1/2	1 1/4	3 1/4	1 1/2	
STD.	30	1/2	3/4	12	3 3/4	4 3/8	9 3/8	6 3/4	3	1 7/8	1	4 1/8	1 7/8	
EXPWY.	36	5/8	7/8	14 3/8	4 1/2	5 1/4	11 3/8	7 1/2	3 3/8	2 1/4	1 1/4	4 3/8	2 1/4	
SPECIAL	48	3/4	1 1/4	19 3/8	6	7	15 1/2	10	4 3/8	3	1 5/8	6 1/2	3	



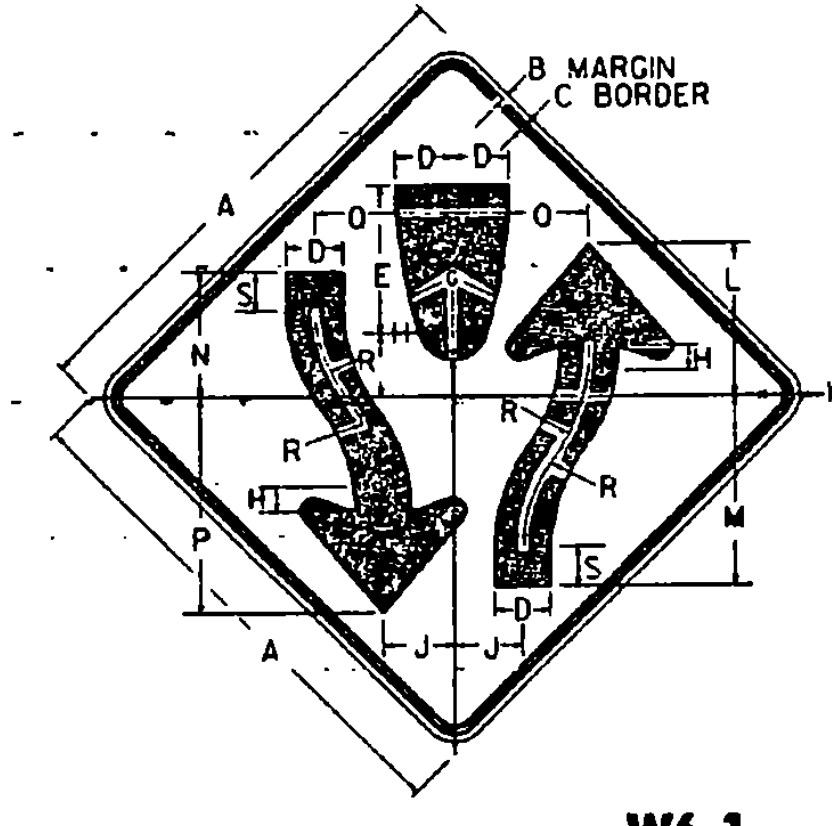
W1-2R

SIGN	DIMENSIONS (INCHES)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	
BIKE	18	3/8	3/8	5 3/8	5 1/2	6	4 3/4	3 3/8	1 3/4	1 1/4	2	2 3/8	6 1/4	1 1/2	
MIN.	24	3/8	3/8	7 1/8	7 1/4	8	6 1/4	4 1/2	2 3/8	1 3/4	2 3/4	3 1/2	8 1/4	1 1/2	
STD.	30	1/2	3/4	8 3/8	9 1/8	10	7 1/4	5 3/8	2 3/8	2 3/8	3 3/8	4 3/8	10 3/8	1 7/8	
EXPWY.	36	5/8	7/8	10 3/8	10 3/8	12	9 3/8	6 3/4	3 1/2	2 3/8	4 1/8	5 1/4	12 3/8	2 1/4	
FWY.	48	3/4	1 1/4	14 3/8	14 1/2	16	12 1/2	9	4 1/8	3 1/2	5 1/2	7	16 1/2	3	



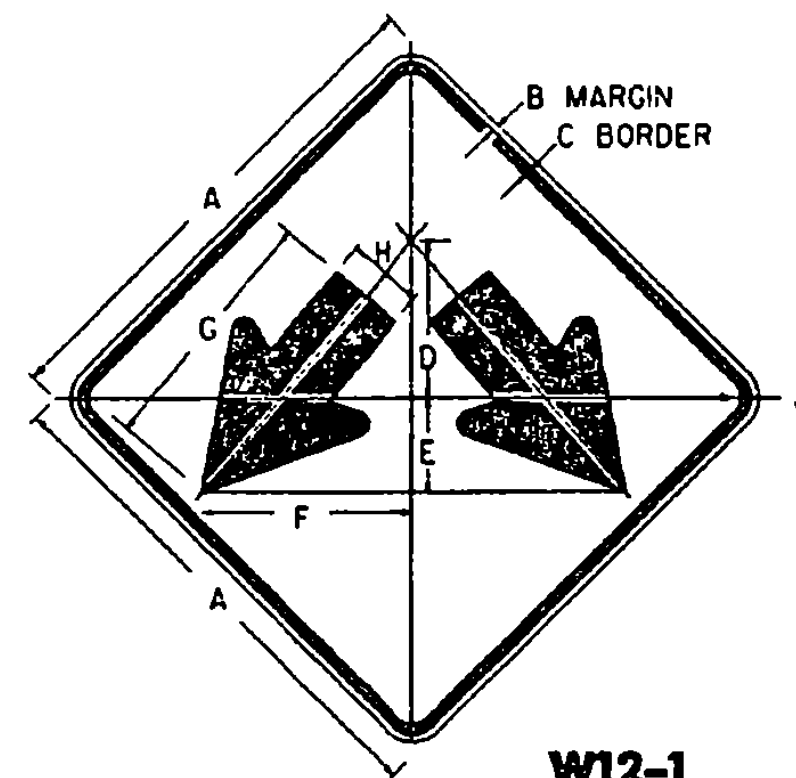
W6-3

SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
MIN.	24	3/8	3/8	2	3	9	8 1/2	1 1/2
STD.	30	1/2	3/4	2 1/8	3 3/4	11 1/4	10 3/8	1 7/8
EXPWY.	36	5/8	7/8	2 3/8	4 1/2	13 1/2	12 3/4	2 1/4
SPECIAL	48	3/4	1 1/4	3 3/8	6	18	17	3



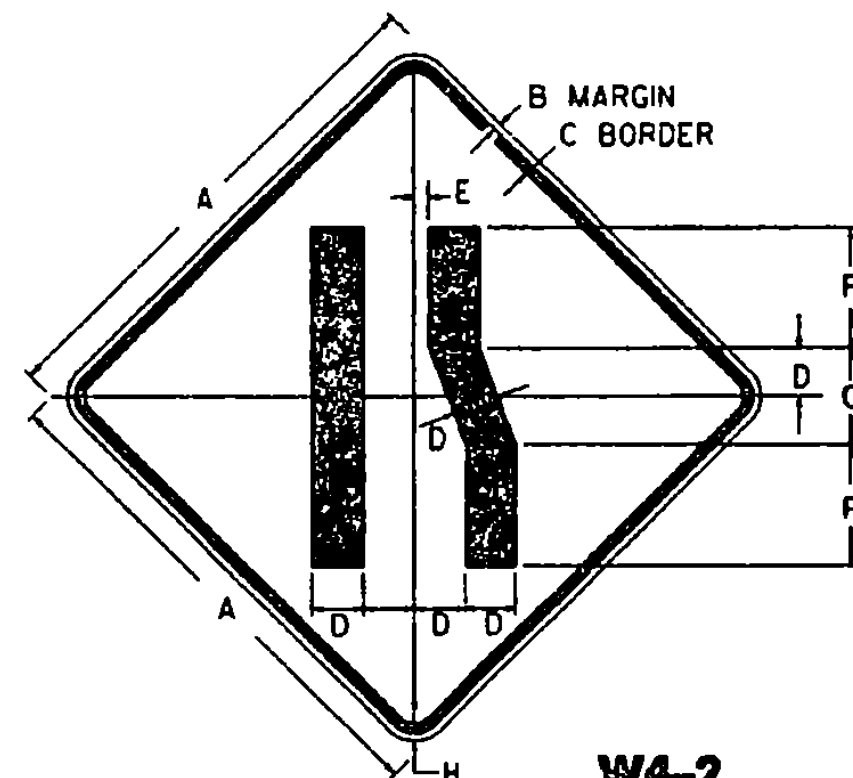
W6-1

SIGN	DIMENSIONS (INCHES)																		
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S		
MIN.	30	1/2	3/4	3 3/8	8 3/8	4 1/8	25	1 1/8	4 1/8	1 7/8	10	11 3/8	7 1/4	13 1/8	7 3/8	8 3/8	2 1/8		
STD. & EXPWY.	36	5/8	7/8	4	10	5	30	2	5	2 1/4	12	14	9 1/2	16 1/2	9 1/2	10	2 1/2		
SPECIAL	48	3/4	1 1/4	5 1/4	13 3/8	6 3/8	39 3/8	2 3/8	6 3/8	3	16	18 1/8	12 3/8	22	12 3/8	13 3/8	3 3/8		



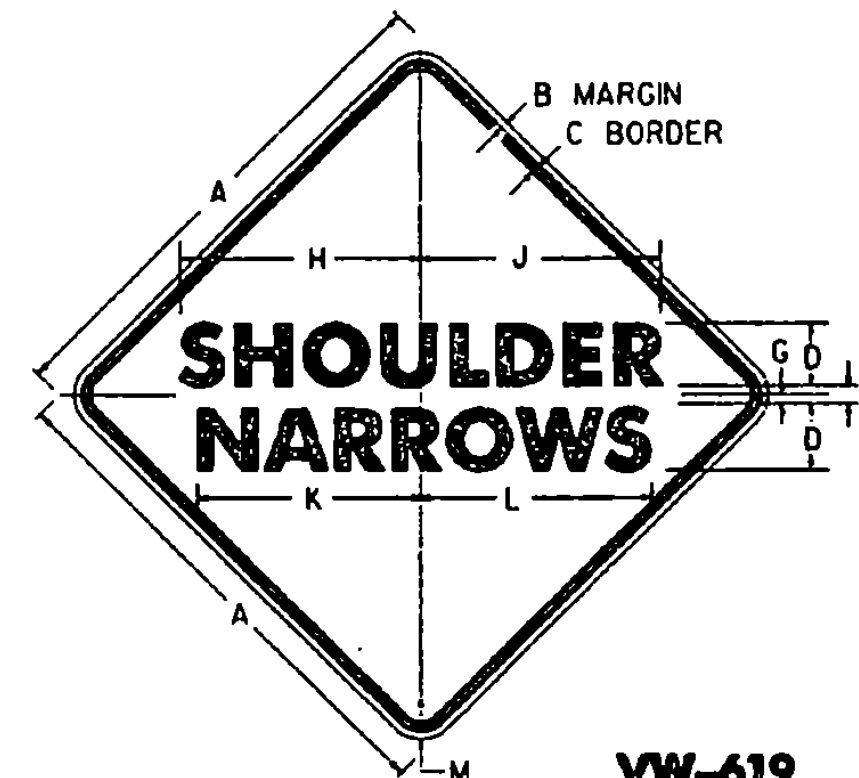
W12-1

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	
STD. & MIN.	24	3/8	5/8	8	4 1/8	9 3/4	11 3/8	3 3/8	1 1/2	
SPECIAL	30	1/2	3/4	10	5 1/4	12 3/8	14 3/8	4	1 7/8	
SPECIAL	36	5/8	7/8	12	6 3/8	14 3/8	17 1/2	4 3/4	2 1/4	



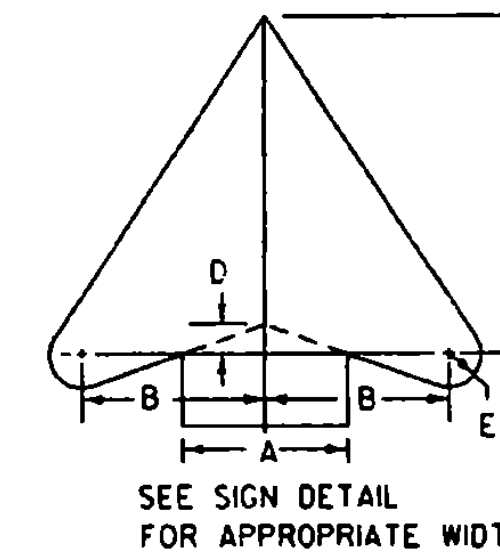
W4-2

SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
MIN.	30	1/2	3/4	3 3/8	1 3/8	8 3/8	6 3/4	1 1/8
STD. & EXPWY.	36	5/8	7/8	4	1	10	8	2 1/4
FWY.	48	3/4	1 1/4	5 3/8	1 3/8	13 3/8	10 3/8	3



VW-619

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	
MIN & STD.	36	3/8	7/8	5C	3	6D	1	13 1/8	13 1/8	17 3/8	18 1/4	2 1/4	
EXPWY.	48	3/4	1 1/4	7D	3 1/2	7D	1	23 1/8	23 3/8	21 1/2	21 3/8	3	



DIMENSIONS (INCHES)					
A	B	C	D	E	
2 3/8	3	5 1/4	3/8	1/2	
3	3 1/2	6 1/8	1/8	3/8	
3 1/8	1 3/8	6 3/8	1/2	3/8	
3 1/4	3 3/4	6 3/8	1/2	3/8	
3 3/8	13 3/8	6 3/8	1/2	1/8	
3 1/2	4	7 1/8	3/8	3/4	
3 3/4	4 3/8	7 3/8	3/8	3/4	
4	4 3/8	8 1/8	3/8	3/4	
4 3/8	5	8 3/8	3/8	3/4	
4 1/2	5 3/8	9 3/8	3/8	3/4	
4 3/4	5 3/8	9 3/8	3/4	1	
5	5 3/4	10 1/8	3/4	1	
5 1/4	6	10 3/8	3/4	1 1/8	
6	6 3/8	12 3/8	3/4	1 3/8	
6 1/2	7 1/2	13 3/8	1	1 3/8	
7	8	14 3/8	1 1/8	1 3/8	
8	9 3/8	16 1/4	1 1/4	1 3/8	

COLORS

ALL THE WARNING SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT AND SYMBOLS ON REFLECTORIZED YELLOW BACKGROUND EXCEPT AS OTHERWISE NOTED. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS

THE SIGN BASE MATERIALS USED FOR THE WARNING SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING, OF THE MINIMUM THICKNESS NOTED.

FLAT SHEET ALUMINUM	24" x 12"	36" x 18"	48" x 24"
HIGH DENSITY OVERLAID PLYWOOD	30" x 24"	36" x 36"	48" x 36"
GALVANIZED FLAT SHEET STEEL	18" GAGE	16 GAGE	14 GAGE
	0.080"	0.100"	0.125"

THE TEXT, BORDER AND SYMBOLS SHALL BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. WHEN HAND PAINTED, POOR WORKMANSHIP SHALL BE CAUSE FOR REJECTION. THE REFLECTIVE MATERIAL SHALL BE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR THE SIGN BACKGROUND WHERE NOTED.

TEXT DESIGN

LETTERS, DIGITS, SYMBOLS, SPACING, AND TEXT DIMENSIONS SHALL CONFORM WITH THE STANDARD ALPHABETS AND DESIGN PRESCRIBED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS

WARNING SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR 'TRAFFIC SIGNS'.

OTHER STDS. REQUIRED:

REVISIONS AND CORRECTIONS

OCT. 31, 1987 - DATE OF ORIGINAL ISSUE
AUG. 08, 1995 - MISC. NOTE CHANGES AND ADDED I.D. NUMBERS TO EACH DETAIL.

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

APPROVED

Stephen D. McArthur
DIRECTOR OF ENGINEERING

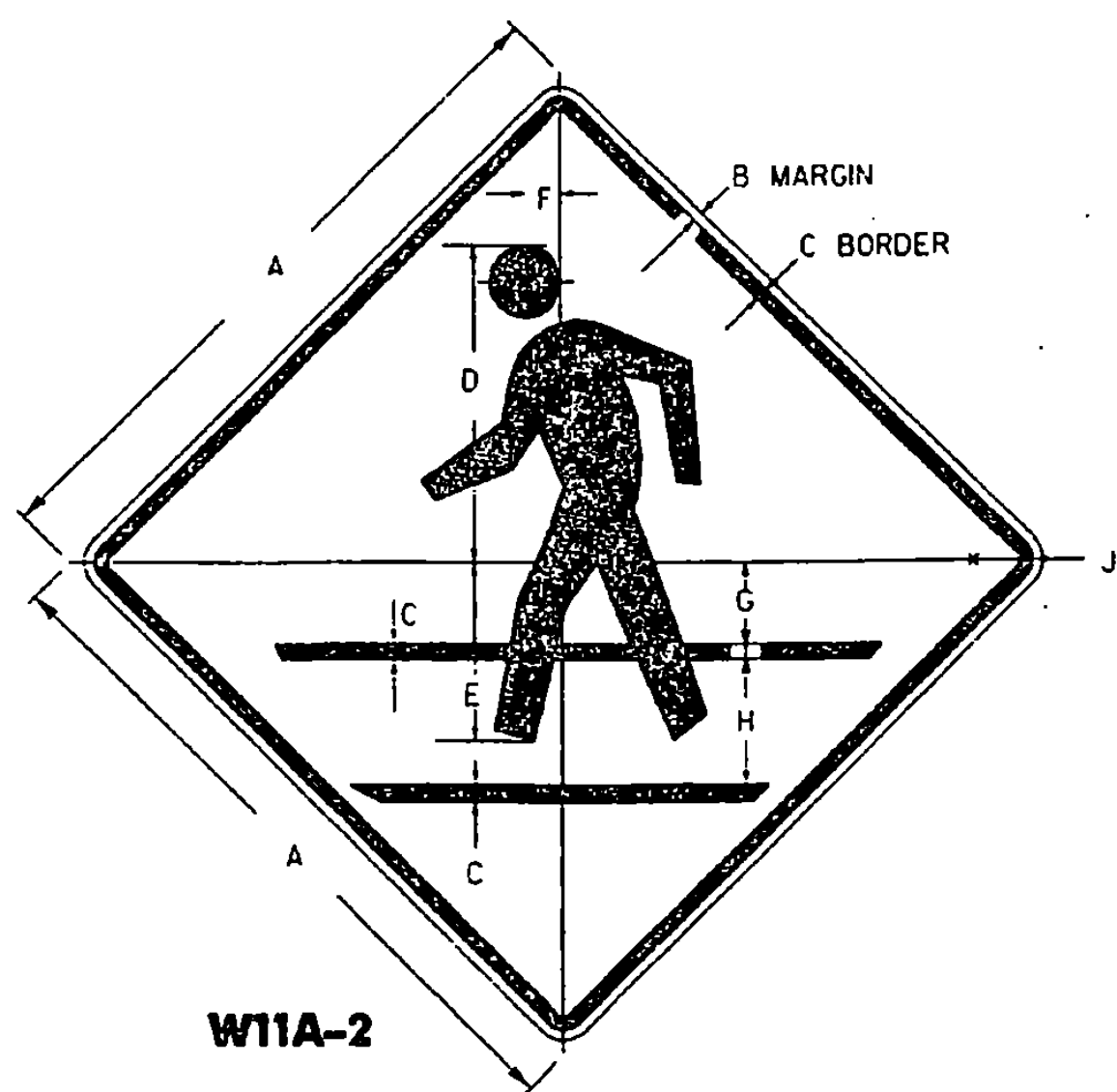
Dave A. Ross
TRAFFIC AND SAFETY ENGINEER

**WARNING SIGNS
DETAIL**

/traf/stc/side151.dgn : stde151

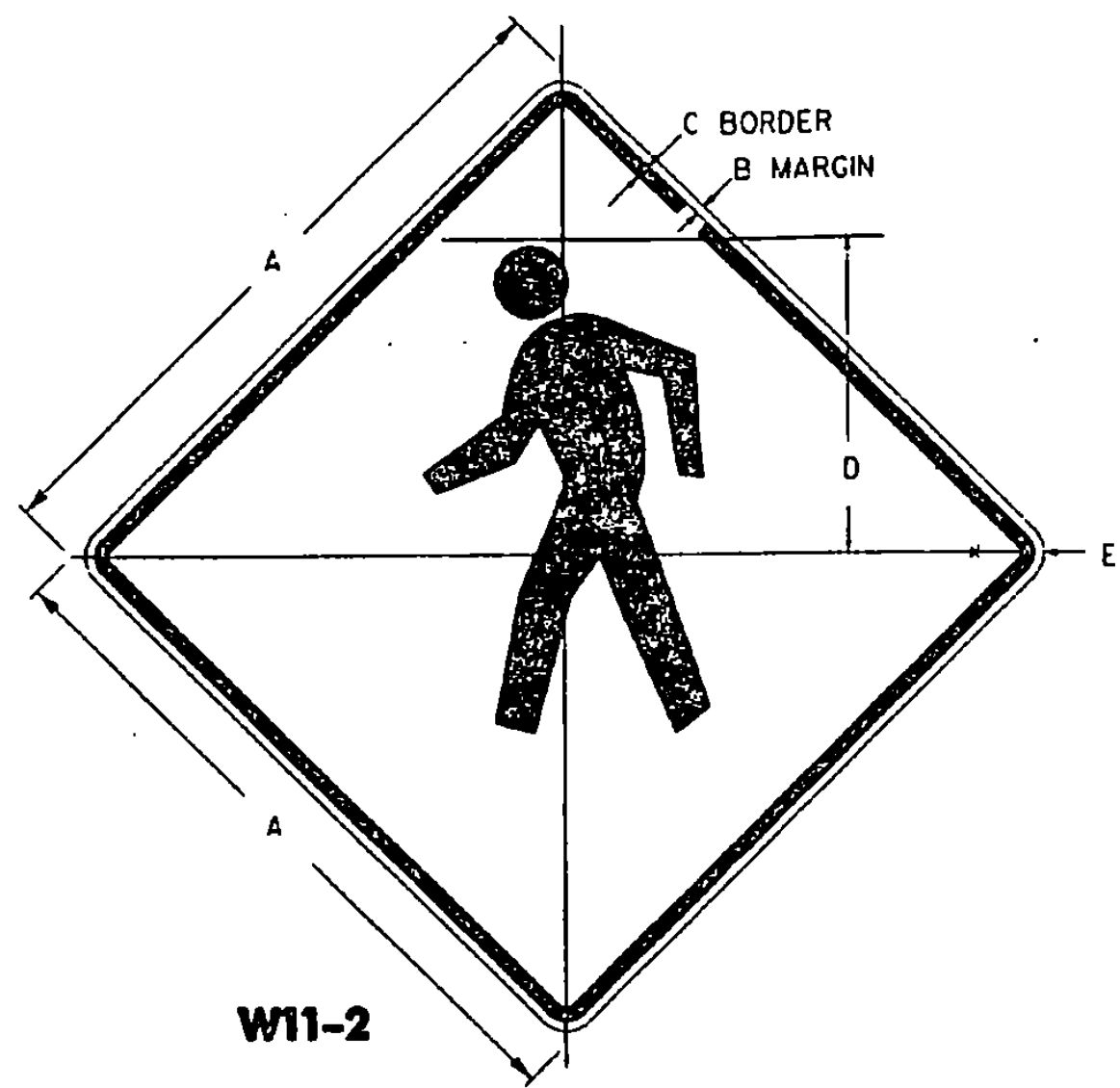


**STANDARD
E-151**



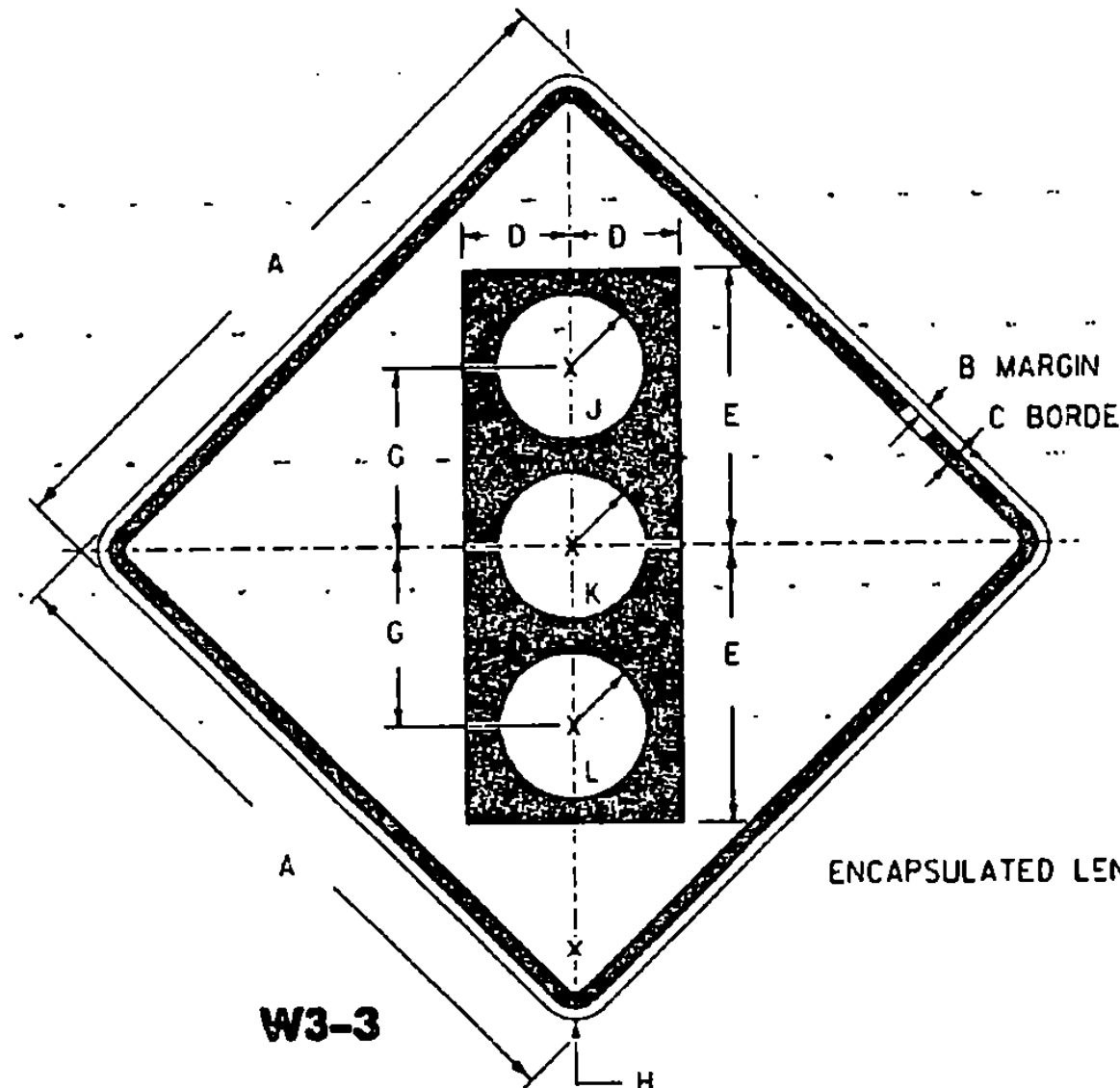
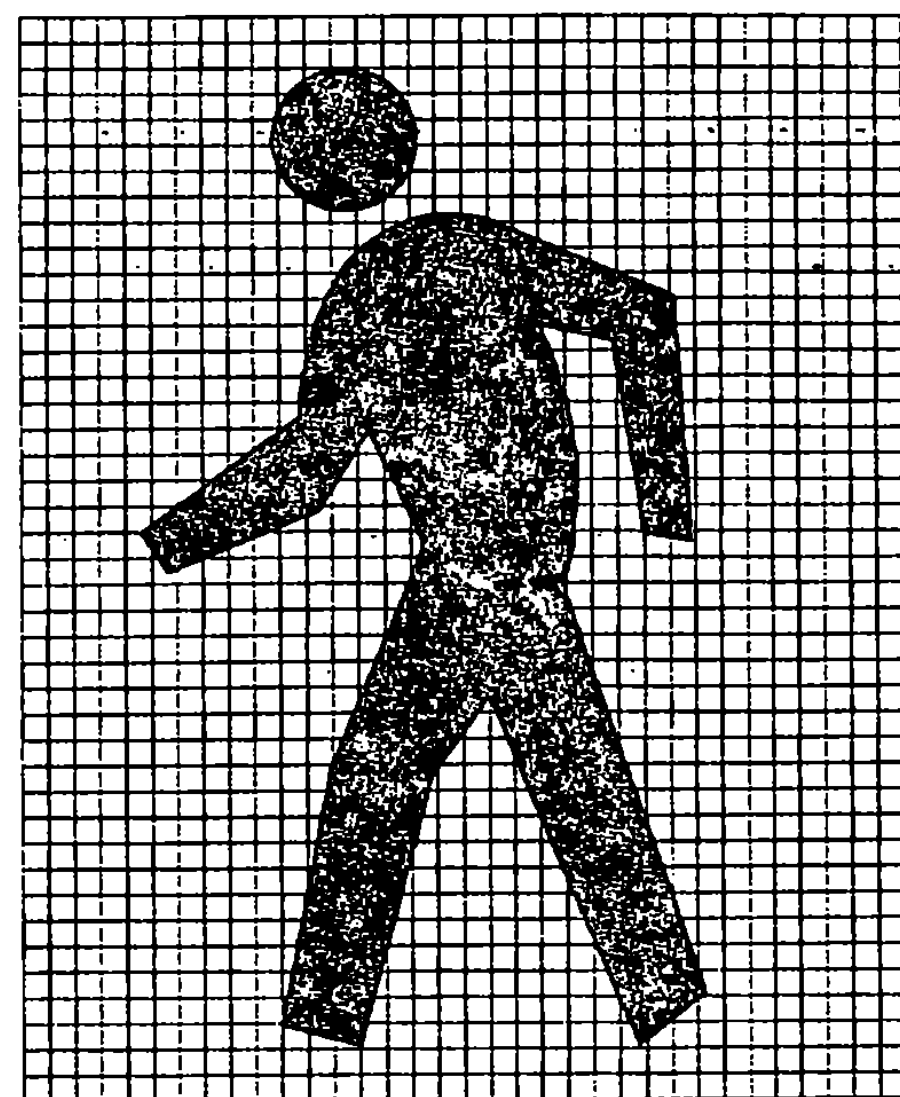
W11A-2

SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	
BIKE	18	3/8	3/8	8 3/8	4 3/4	3/4	2 3/8	3 5/8	1/2	
MIN.	24	3/8	3/8	11	6 3/8	3/8	3 3/8	4 3/4	1/2	
STD.	30	1/2	3/4	14	8	1/2	6	6	1 1/8	
EXPWY.	36	5/8	7/8	16 3/4	9 3/8	1 1/8	4 3/4	7 1/2	2 1/4	
SPECIAL	48	3/4	1 1/4	22	12 3/4	2 3/8	6 3/4	9 3/4	3	



W11-2

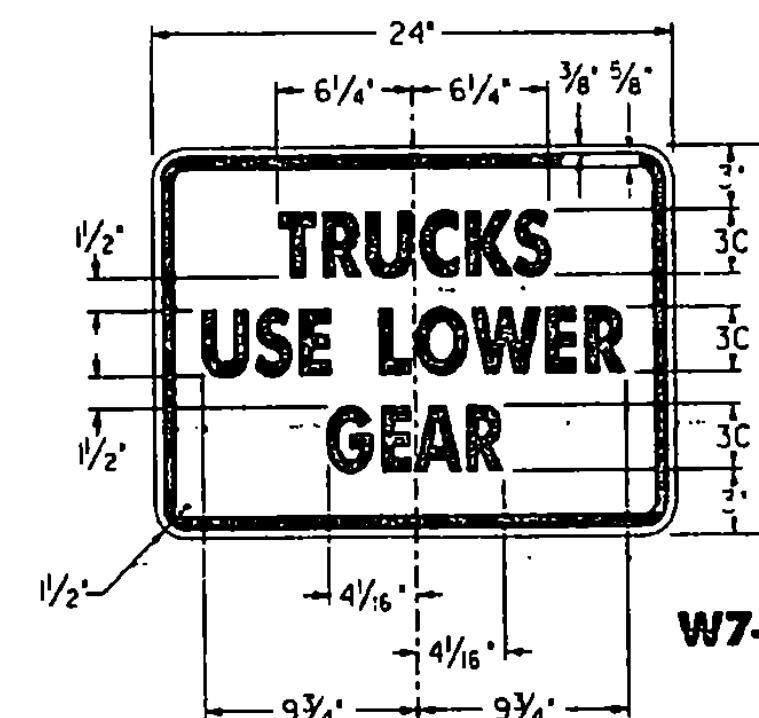
SIGN	DIMENSIONS (INCHES)				
	A	B	C	D	E
MIN.	24	3/8	3/8	11	1 1/2
STD.	30	1/2	3/4	13 1/2	1 7/8
EXPWY.	36	5/8	7/8	16	2 1/4
SPECIAL	48	3/4	1 1/4	22	3



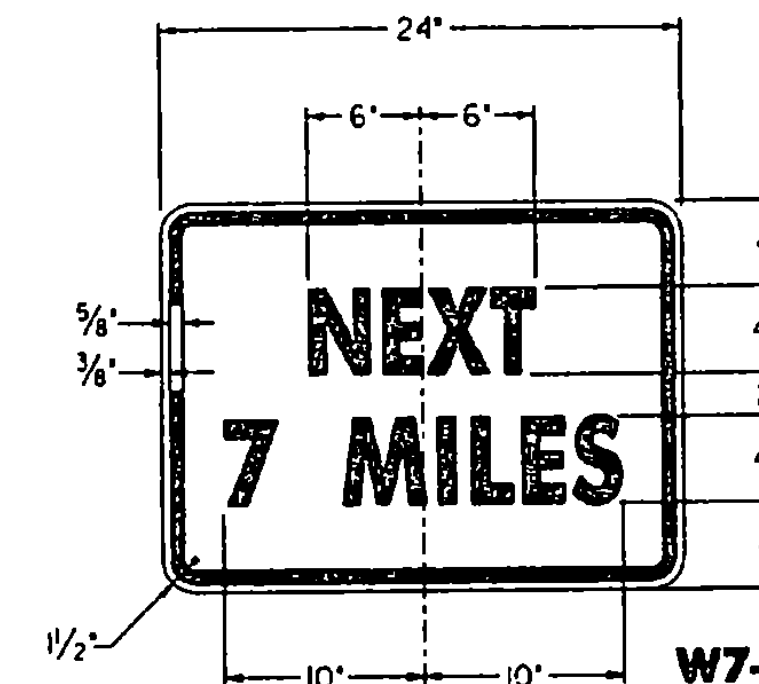
W3-3

SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
BIKE	18	3/8	3/8	3	8	2 1/4	5	1 1/2
MIN.	30	1/2	3/4	5	13 3/4	3 3/4	8 3/4	1 7/8
STD. & MIN.	36	5/8	7/8	5 3/4	15 3/4	4 1/4	10	2 1/4
SPECIAL	48	3/4	1 1/4	7 1/2	20	5	12 1/2	3

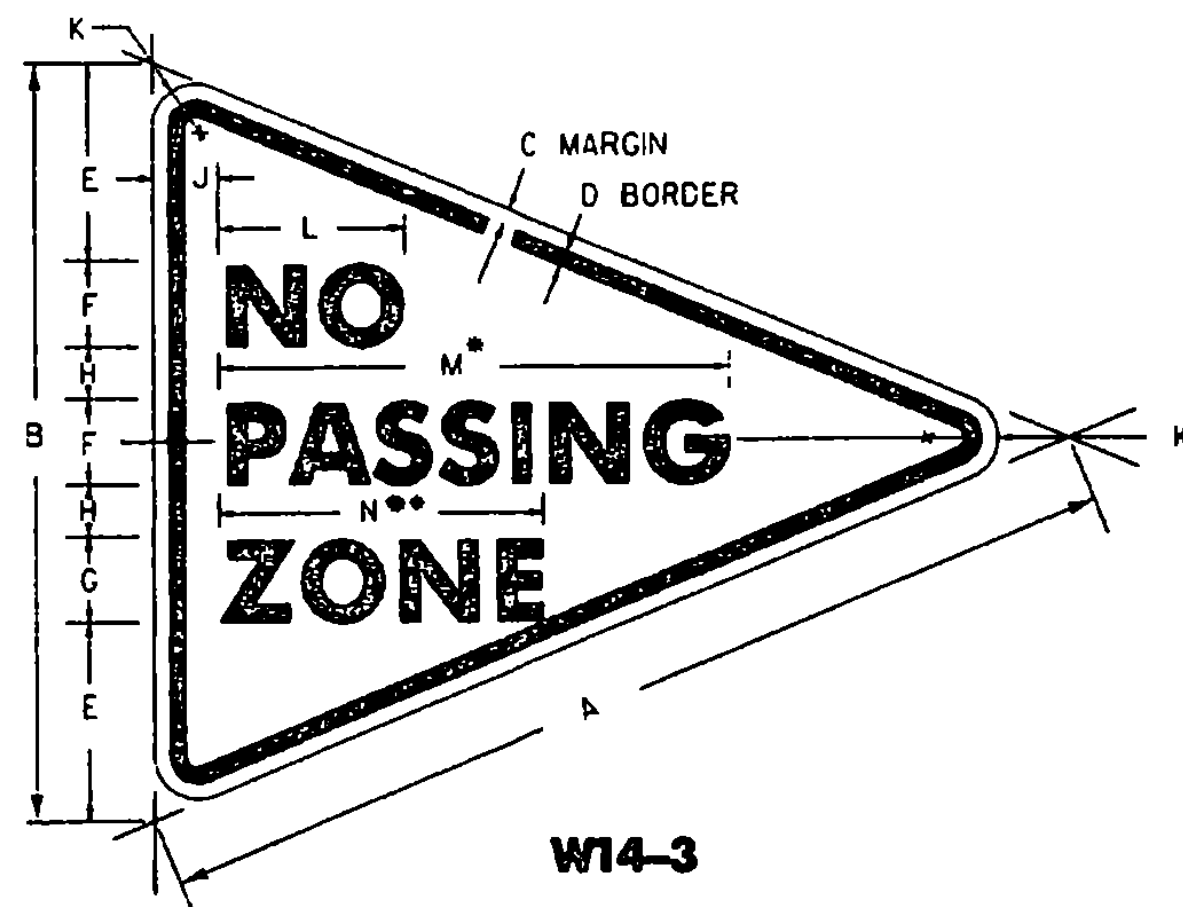
ADDITIONAL COLORS : J - REFL. RED
K - REFL. YELLOW
L - REFL. GREEN
CIRCLE RADIUS = F



W7-2b



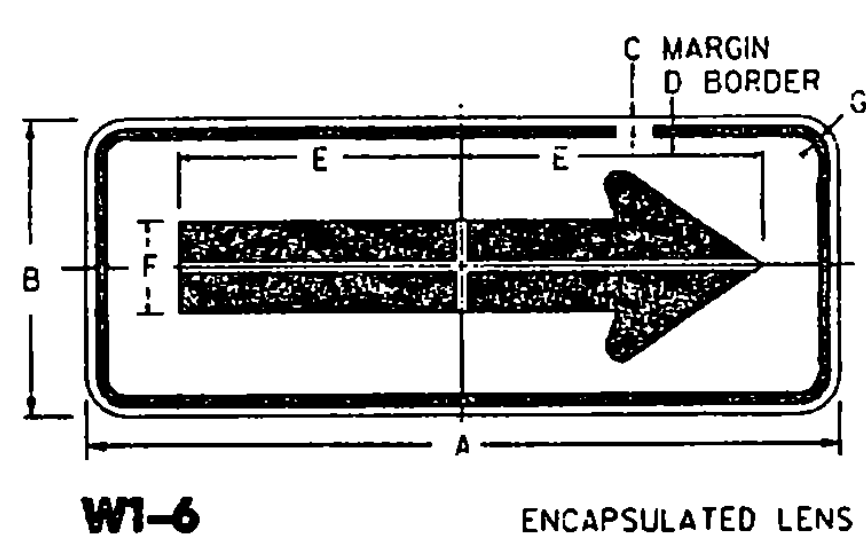
W7-3a



W14-3

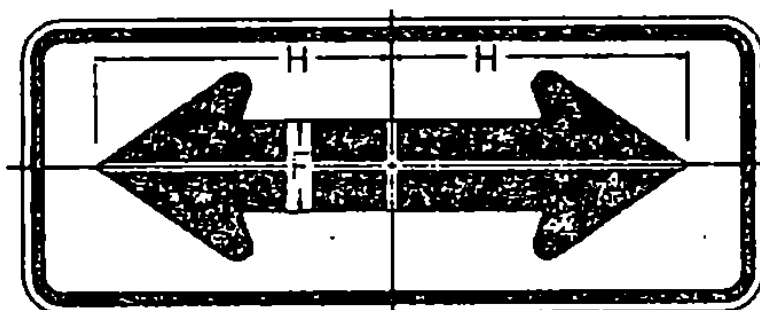
SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	
MIN.	40	30	1/2	3/4	7 1/4	40	40	13 1/4	2 1/2	1 7/8	6 1/2	22 3/8	11 1/16	
STD.	48	36	5/8	7/8	8 1/2	50	50	2	3	2 1/4	8	26 3/8	12 3/4	
SPECIAL	64	48	3/4	1 1/4	12	60	60	3	4	3	10 3/4	33 3/8	16 3/8	

** FOR STD. SIZE REDUCE SPACING 35 %
* FOR STD. SIZE REDUCE SPACING 20 %



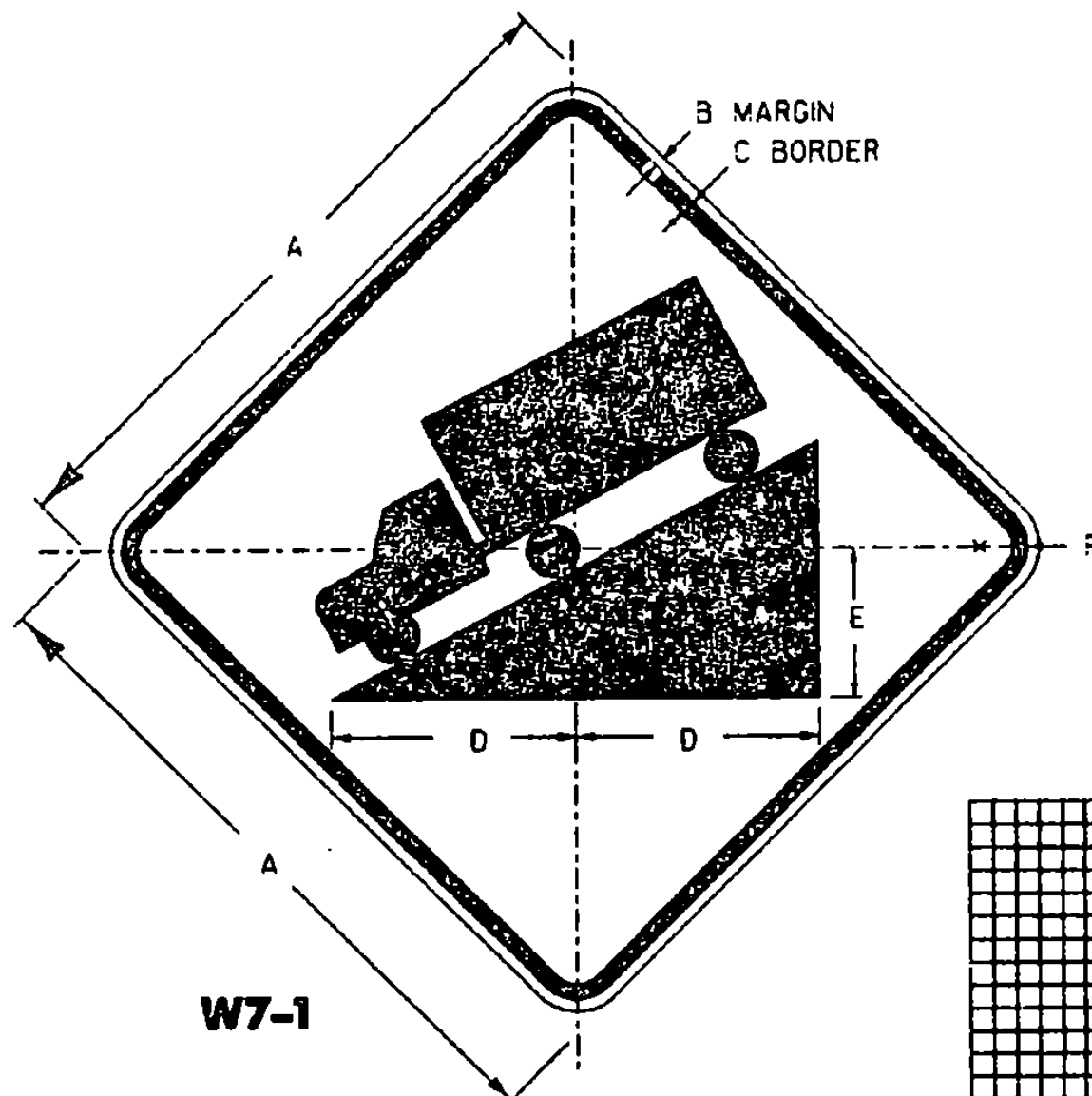
W1-6

SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
BIKE	24	12	3/8	3/8	9 3/8	3 1/4	1 1/2	10 3/8
MIN.	36	18	3/8	3/8	14 3/8	5	1 1/2	15 3/8
STD.	48	24	1/2	3/4	19 1/2	6 1/2	1 3/8	20 1/2
SPECIAL	60	30	5/8	3/4	24 3/8	8	2 1/4	25 3/8



W1-7

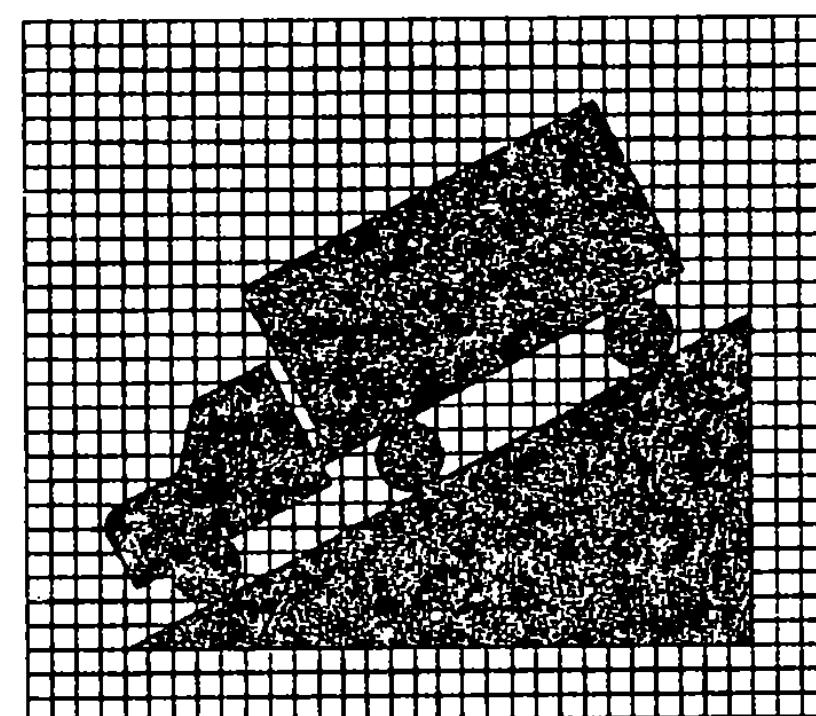
ENCAPSULATED LENS



W7-1

SIGN	DIMENSIONS (INCHES)					
	A	B	C	D	E	F
MIN.	24	3/8	3/8	8 3/4	6	1 1/2
STD.	30	1/2	3/4	11	7 1/2	1 7/8
EXPWY.	36	5/8	7/8	13 3/4	9	2 1/4
FWY.	48	3/4	1 1/4	17 1/2	12	3

ENCAPSULATED LENS



COLORS

ALL THE WARNING SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT AND SYMBOLS ON REFLECTORIZED YELLOW BACKGROUND EXCEPT AS OTHERWISE NOTED. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS

THE SIGN BASE MATERIALS USED FOR THE WARNING SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING, OF THE MINIMUM THICKNESS NOTED.

FLAT SHEET ALUMINUM	MIN. THICKNESS	FLAT SHEET PLYWOOD	MIN. THICKNESS	ENCAPSULATED LENS	MIN. THICKNESS
24" x 12"	0.060"	36" x 18"	0.080"	48" x 24"	1/8"
24" x 24"	0.080"	40" x 30"	0.100"	48" x 36"	3/16"
30" x 30"	0.100"	36" x 36"	0.125"	48" x 48"	1/4"
36" x 36"	0.125"	64" x 48"	0.150"	48" x 30"	5/16"
48" x 24"	0.150"			60" x 30"	3/8"
48" x 36"	0.175"			64" x 48"	7/16"

THE TEXT, BORDER AND SYMBOLS SHALL BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. WHEN HAND PAINTED, POOR WORKMANSHIP SHALL BE CAUSE FOR REJECTION. THE REFLECTIVE MATERIAL SHALL BE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR THE SIGN BACKGROUND WHERE NOTED.

TEXT DESIGN

LETTERS, DIGITS, SYMBOLS, SPACINGS, AND TEXT DIMENSIONS SHALL CONFORM WITH THE STANDARD ALPHABETS AND DESIGNS PRESCRIBED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. SEE STANDARD SHEET E-150 FOR ARROWHEAD DETAILS.

SPECIFICATIONS

WARNING SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR "TRAFFIC SIGNS".

OTHER STDS. E-150 REQUIRED:

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
JANUARY 1991 - 4 X 2 ARROW ENCAPSULATED LENS & 40 X 30 ADDED
OCT. 21, 1992 - PENNANT SIZE ADDED
AUG. 08, 1995 - DELETED & ADDED SIGN DETAILS AND ADDED I.D. NUMBER TO EACH DETAIL

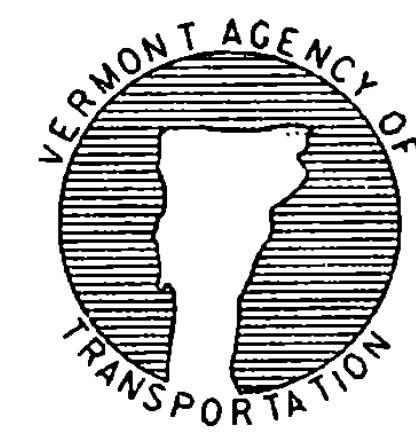
APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION. FHWA FINAL APPROVAL PENDING.

APPROVED

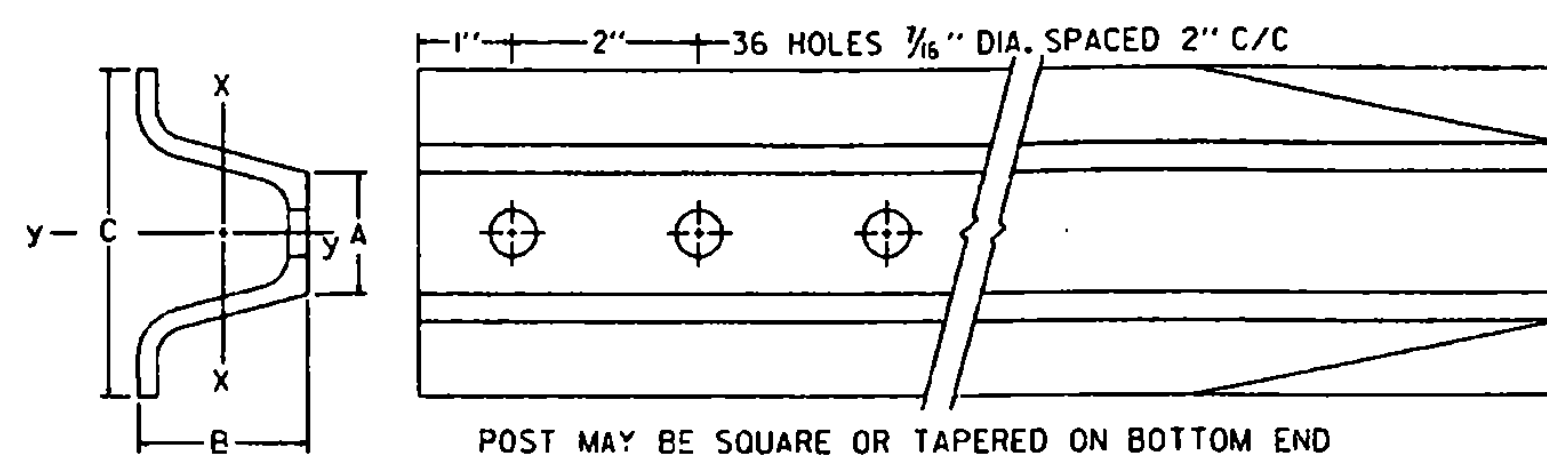
Stephen D. McArthur
DIRECTOR OF ENGINEERING

David A. Reed
TRAFFIC AND SAFETY ENGINEER

WARNING SIGN
DETAILS

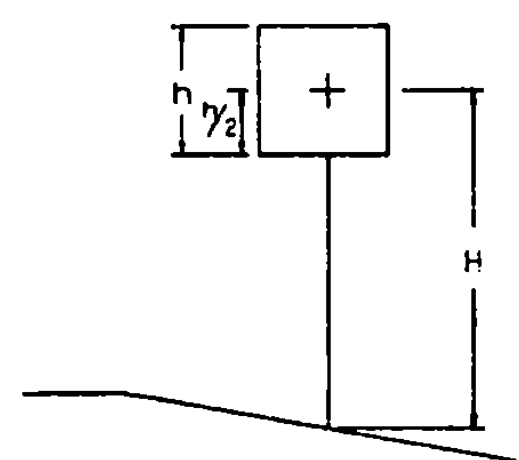


STANDARD
E-152



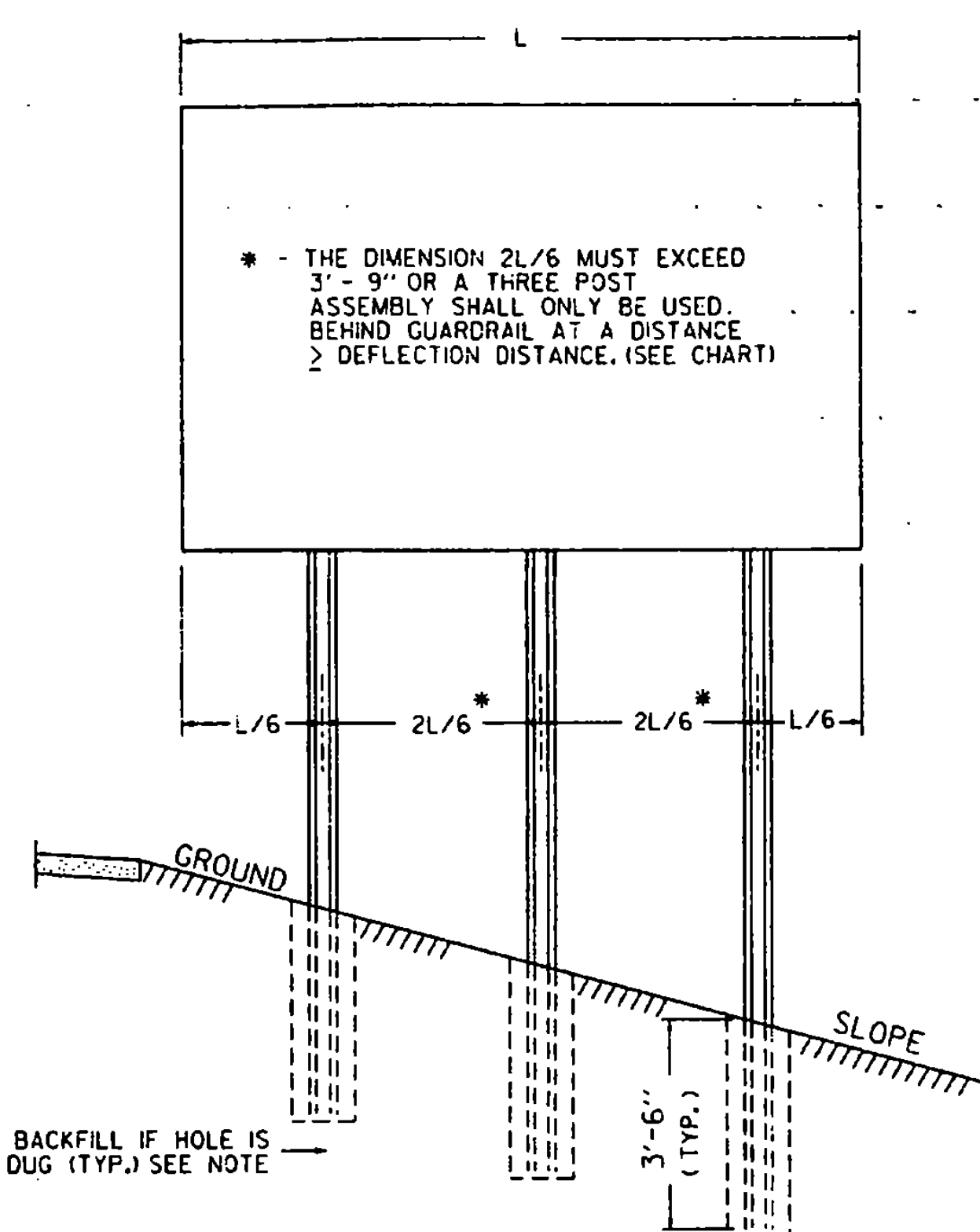
POST SIZE (LB./FT.)	DIMENSIONS			SECTION MODULUS, X-X
	A	B	C	
2	1 1/2"	1 3/4"	3 1/8"	0.225 IN. ³
3	1 5/8"	1 7/8"	3 1/2"	0.403 IN. ³

SIMILAR DIMENSIONS ARE ACCEPTABLE, HOWEVER SECTION MODULUS VALUES SHALL NOT BE EXCEEDED.



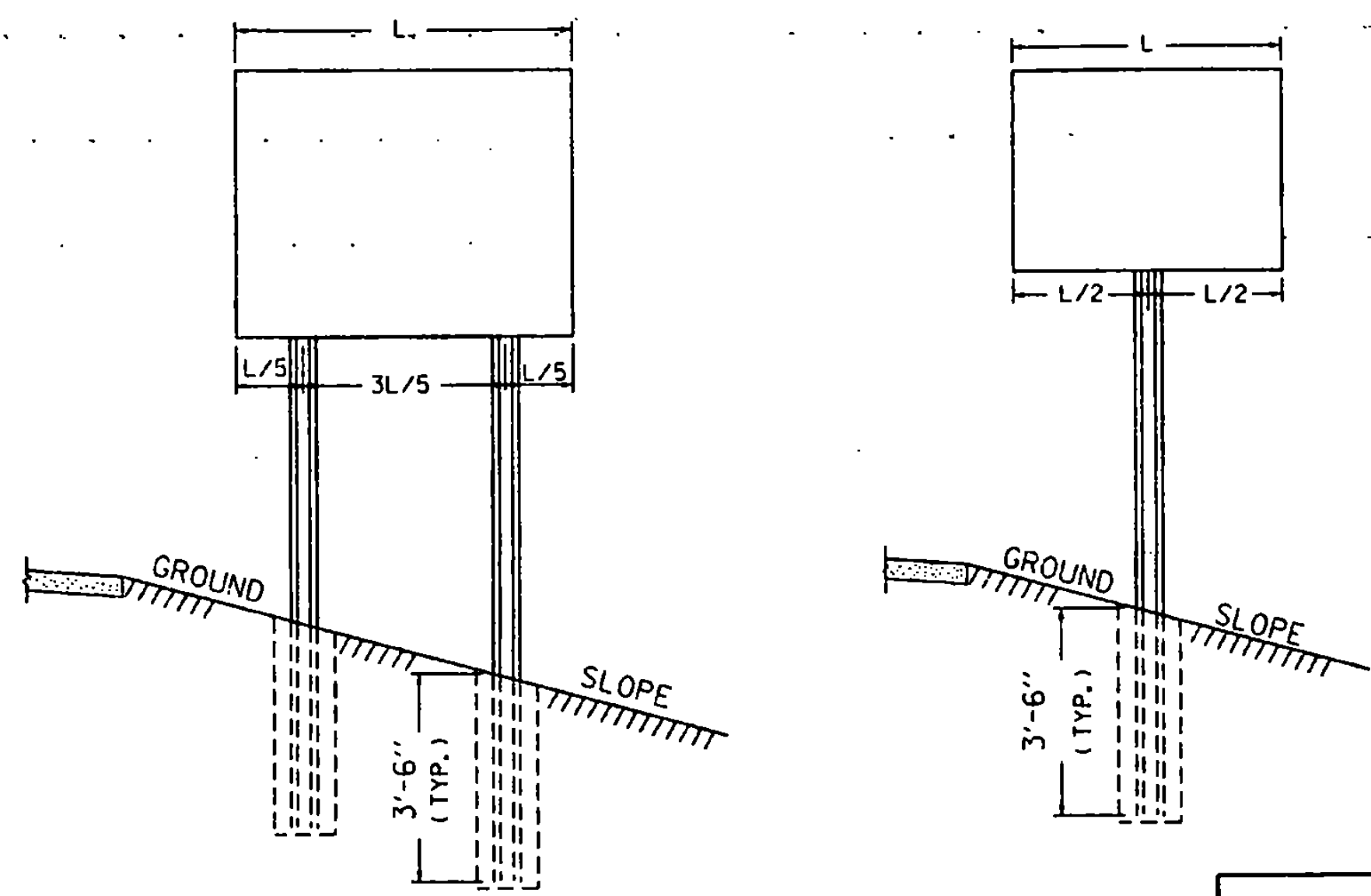
POST SELECTION CHART		
SIGN AREA (FT ²) x H (FT) ≤ SV (SELECTION VALUE)		
POST SIZE	Sv	DESIGN CRITERIA
2 LB./FT. (ONE POST INSTALLATION)	32	WIND SPEED = 60 MPH (10-YEAR MEAN RECURRENCE INTERVAL)
2 LB./FT. (TWO POST INSTALLATION)	62	WIND PRESSURE = 13 PSF
3 LB./FT.	107	STEEL MIN YIELD F _y = 50,000 PSI ALLOWABLE STRESS = (1.4) 0.60 F _y

SINGULAR 2 LB./FT. POSTS SHALL ONLY TO BE USED IN URBAN AREAS.

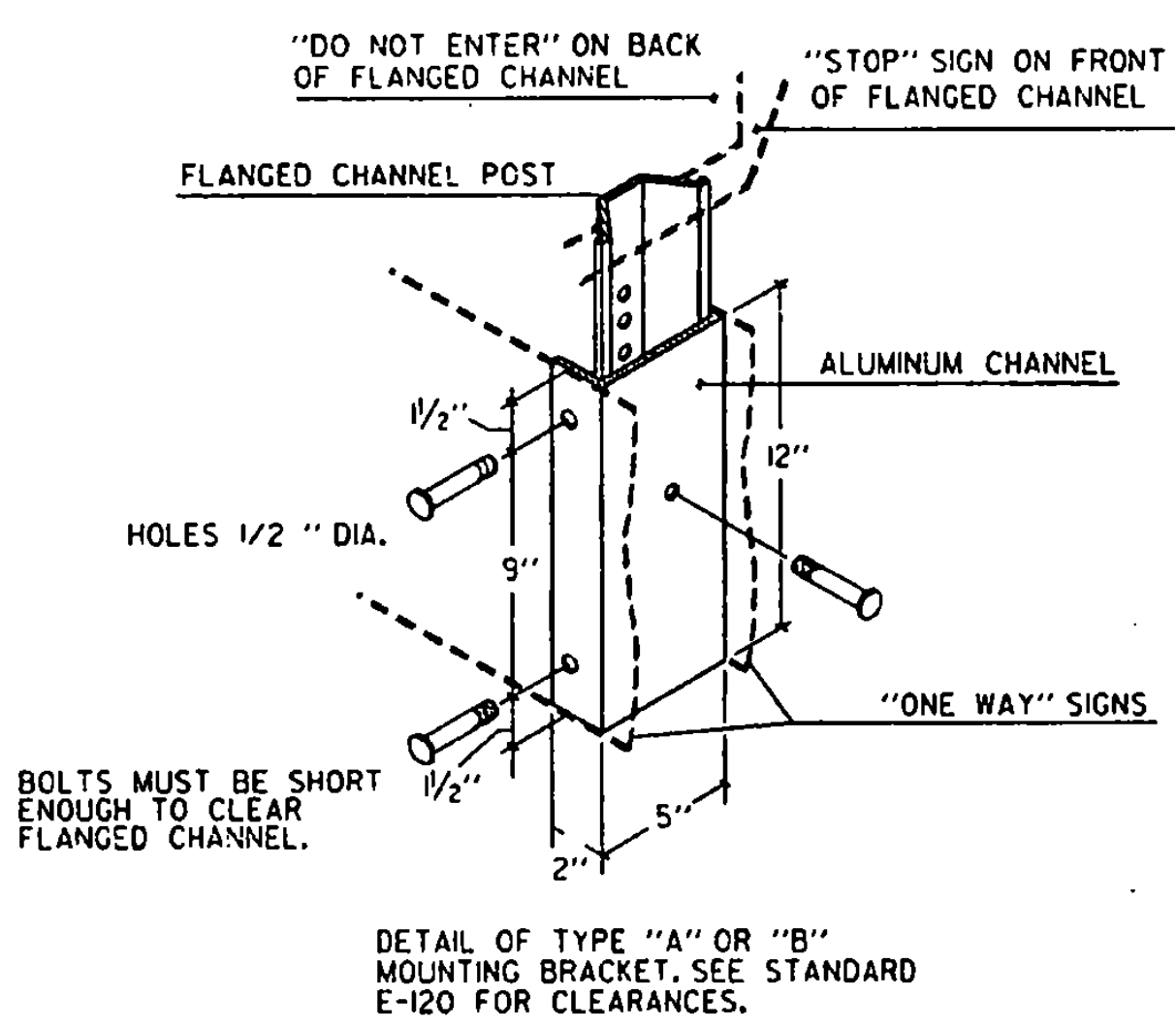


MULTI-POST INSTALLATIONS

WHEN SIGN POSTS ARE INSTALLED WITH A POST SPACING OF LESS THAN 8 FEET, POST SIZES MUST BE SELECTED TO INSURE THAT WHEN ACTING TOGETHER THE POSTS DO NOT CREATE A HAZARD. REFER TO V. A. O. T. SIGN POST DESIGN GUIDELINE FOR ADDITIONAL DETAILS.



POST SPACING DETAILS



DETAIL OF TYPE "A" OR "B" MOUNTING BRACKET, SEE STANDARD E-120 FOR CLEARANCES.

GUARDRAIL DEFLECTION CHART (PER AASHTO - ROADSIDE DESIGN GUIDE - 1988)		
TYPE	GR POST SPACING	DEFLECTION
THREE CABLE W/STEEL POSTS	16' - 0"	12'
W/WOODEN POSTS	12' - 6"	12'
W-BEAM	12' - 6"	7'
W/STRONG POST	6' - 3"	3'
BOX BEAM	6' - 0"	5'
THRE BEAM	12' - 6"	4'
W/STRONG POST	6' - 3"	2'

THIS CHART LISTS THE THEORETICAL DEFLECTION DISTANCE UPON IMPACT OF VARIOUS GUARDRAIL WITH DIFFERENT TYPES AND SPACING OF POSTS.

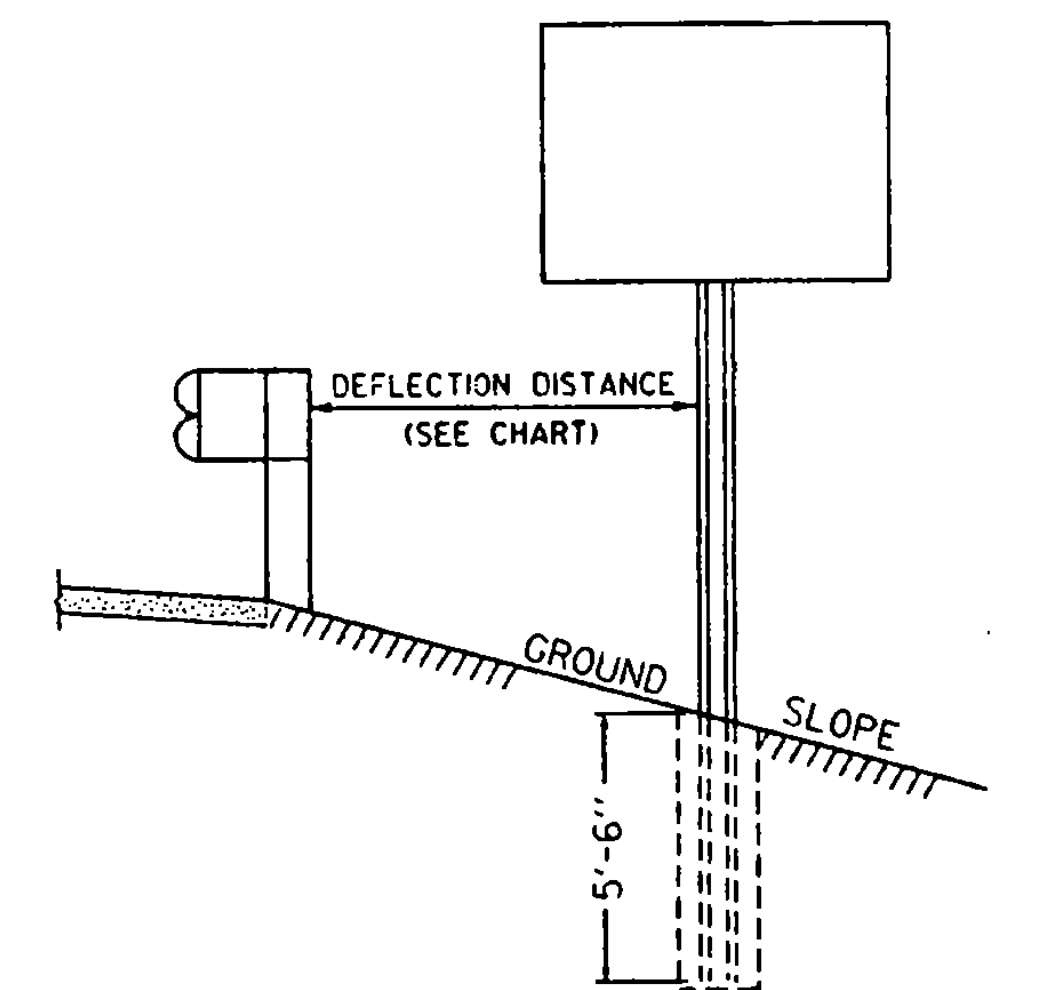
GENERAL NOTES

CONSTRUCTION METHODS - POSTS MAY BE DRIVEN OR SET IN A DUG HOLE AND BACKFILLED. IF DRIVEN, A DRIVING CAP SHALL BE USED. THE DUG HOLE INSTALLTION SHALL BE USED IN AREAS OF POOR SOIL CONDITIONS OR AS DIRECTED BY THE RESIDENT ENGINEER. BACKFILL SHALL BE COMPACTED AS DIRECTED BY THE RESIDENT ENGINEER.

IN AREAS WHERE LEDGE ROCK IS ENCOUNTERED, POSTS WILL BE SET IN A HOLE WITH 2' CLEARANCE AND GROUTED WITH TYPE 4 MORTAR 24' BELOW THE SURFACE OF THE SOLID ROCK, UNLESS THE POSTS PENETRATE THE GROUND A MINIMUM OF 3' - 6". THE PORTION OF THE POST IN CONTACT WITH THE MORTAR SHALL BE COATED WITH AN APPROVED COATING.

SIGN CLEARANCES - HORIZONTAL AND VERTICAL SIGN CLEARANCES SHALL BE SHOWN ON THE PLANS OR THE APPROPRIATE STD. SHEETS.

SINGLE POST INSTALLATIONS SHALL BE LIMITED TO A SIGN AREA OF 12-1/2 SQ. FT. OR LESS.



WHEN USING FLANGED CHANNEL POSTS ON STEEP SLOPES (1 ON 2 OR STEEPER FILL SLOPES BEHIND GUARDRAIL), ADD 2' EMBEDMENT TO THE POST LENGTH TO GIVE THE ASSEMBLY MORE STABILITY. HOWEVER IF SIGN POST IS LOCATED INSIDE THE DEFLECTION DISTANCE, THE SIGN POST SHALL BE SET AT A DEPTH OF 3' - 6".

OTHER STDS. REQUIRED:

REVISIONS AND CORRECTIONS

- SEP. 10, 1987 - DATE OF ORIGINAL ISSUE
- MAR. 01, 1988 - FHWA REVIEW COMMENTS
- OCT. 21, 1992 - ADDED DETAILS, REVISED NOTES & REVISED TITLE BLOCK
- AUG. 18, 1995 - DELETION OF 2.5 LB./FT. POST AND TWO-RAIL ALUMINUM, ADDED ADDITIONAL NOTE.

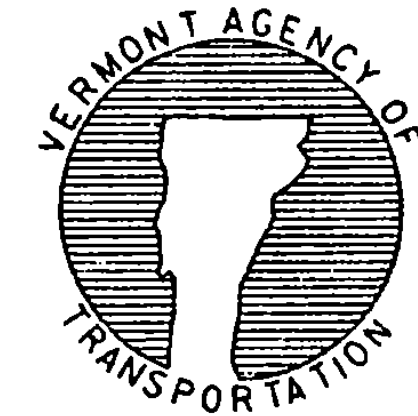
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APPROVED

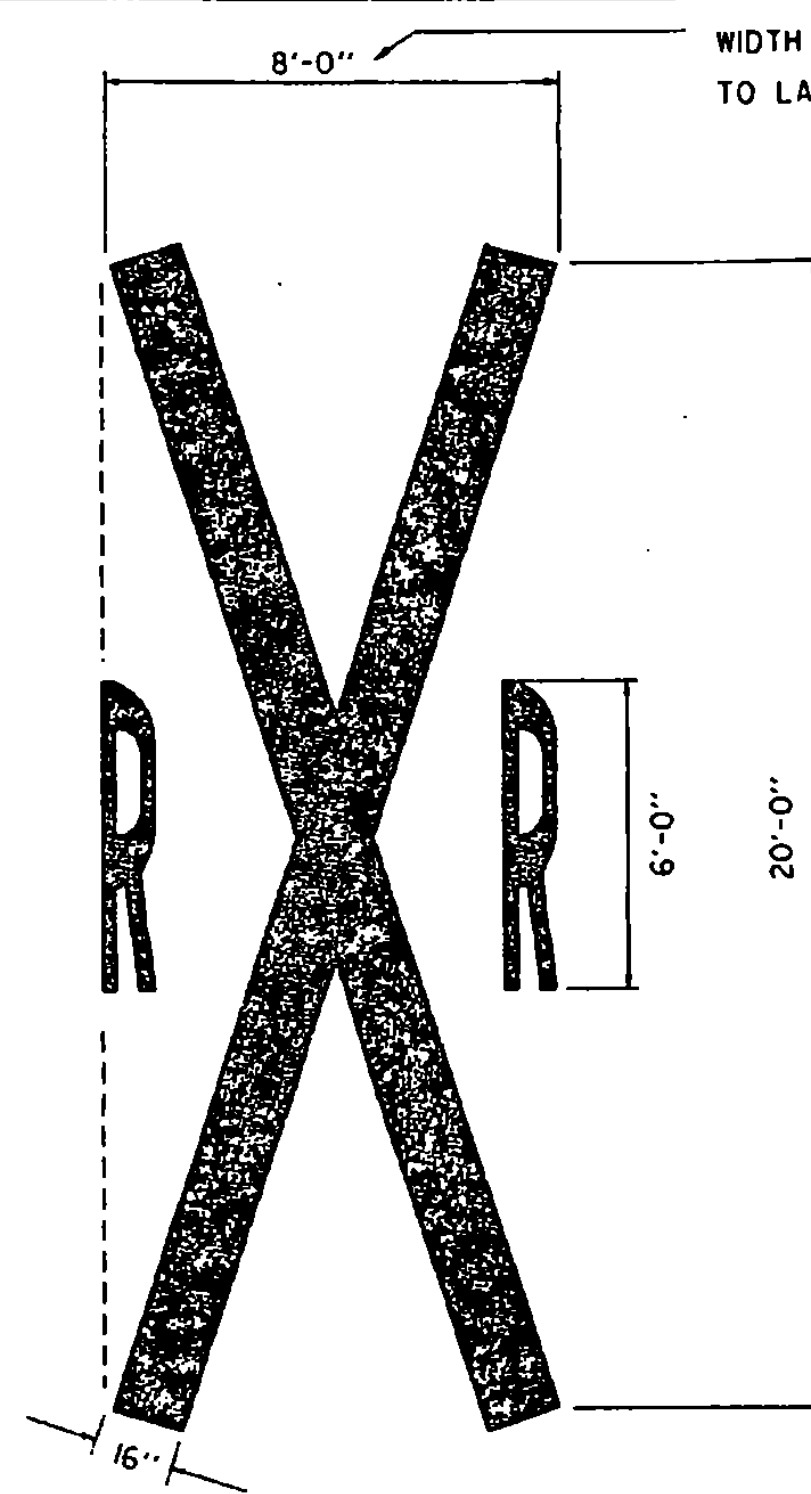
Scott H. McArthur
DIRECTOR OF ENGINEERING

D. J. O. Bus
TRAFFIC AND SAFETY ENGINEER

FLANGED CHANNEL STEEL SIGN POST

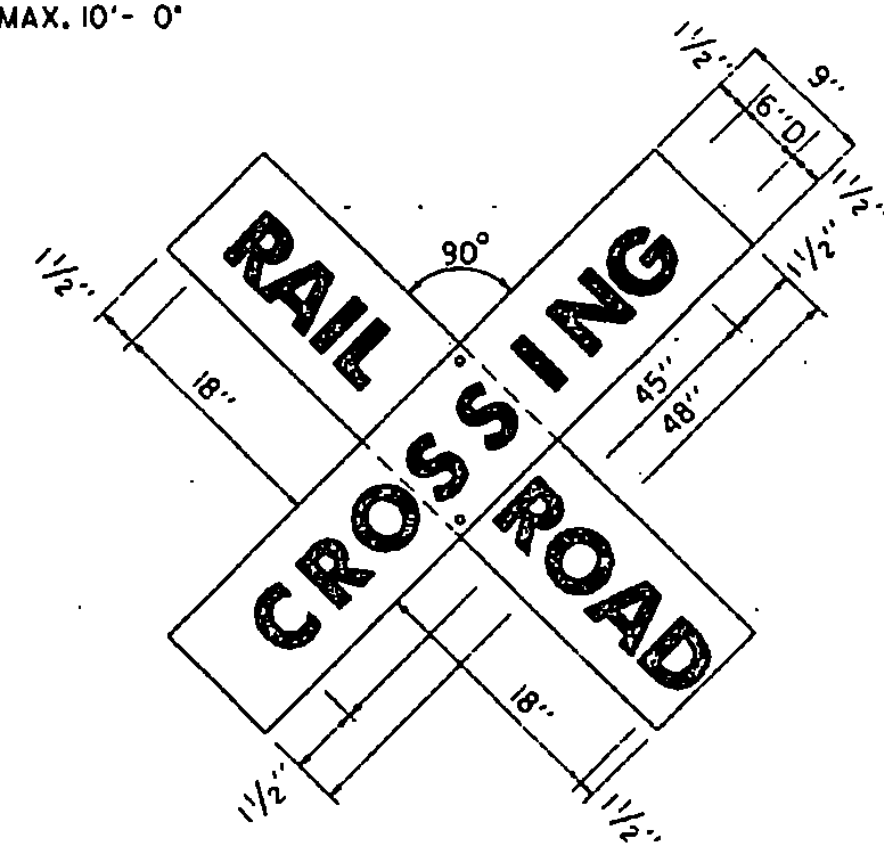


STANDARD E-160

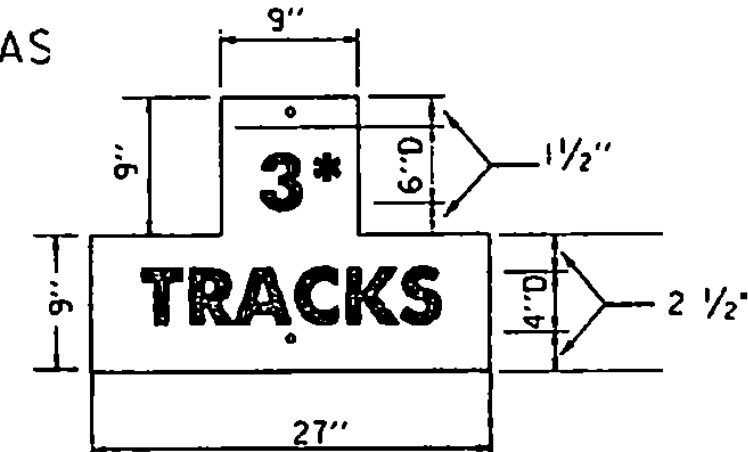


PAVEMENT MARKINGS

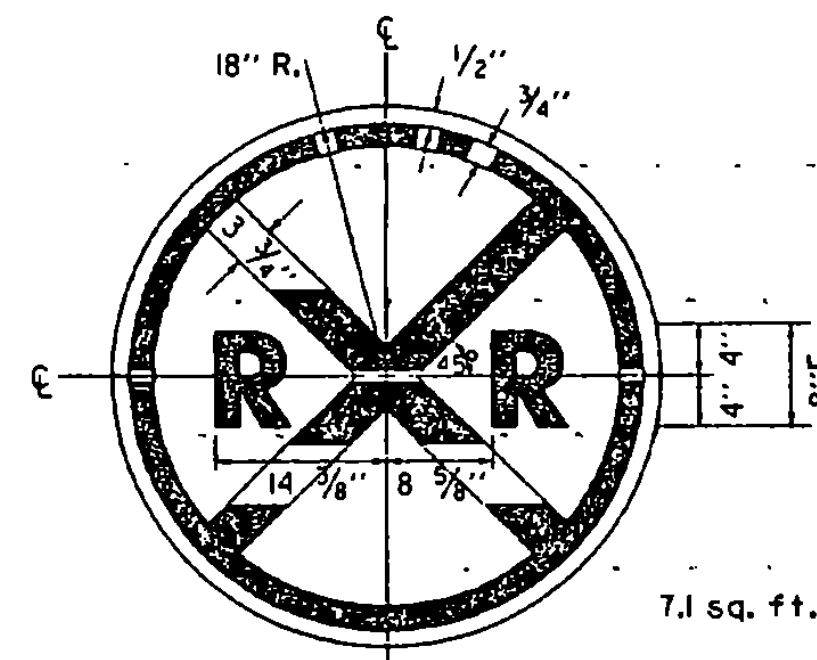
WIDTH MAY VARY ACCORDING TO LANE WIDTH, MAX. 10'-0"



* NUMBER AS REQUIRED



RAILROAD CROSSING SIGN (CROSSBUCK)

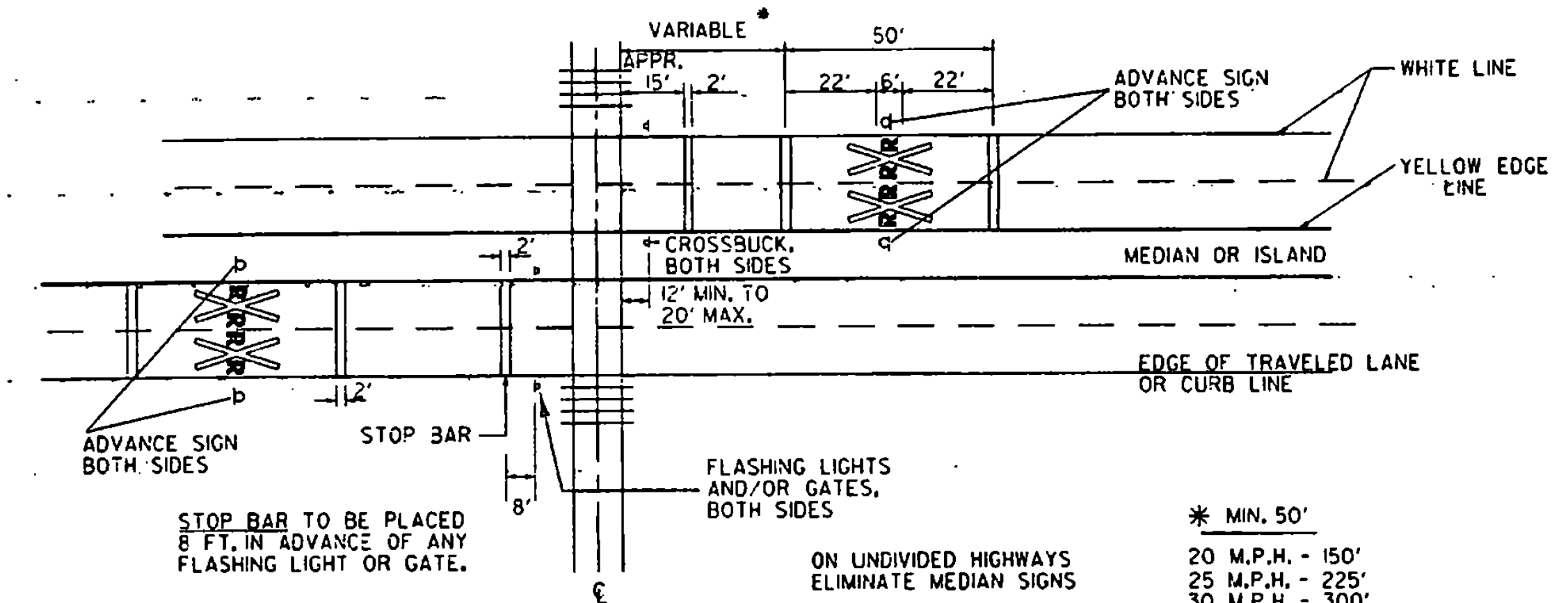


ADVANCE SIGN

SIGN MATERIALS AND COLORS

CROSSBUCKS SHALL BE EITHER 3/4" HIGH DENSITY OVERLAY PLYWOOD OR 0.100" ALUMINUM W/SILVER OR WHITE ENCAPSULATED LENS SHEETING, APPLIED TO BOTH SIDES OF SIGN PANELS.

ADVANCE SIGN SHALL BE 0.125" ALUMINUM W/YELLOW REFLECTIVE SHEETING. MULTI-TRACK SIGN SHALL BE 0.06" ALUMINUM W/SILVER OR WHITE REFLECTIVE SHEETING. TEXT, STRIPES AND BORDERS SHALL BE EITHER BLACK PAINTED OR LETTERING FILM.

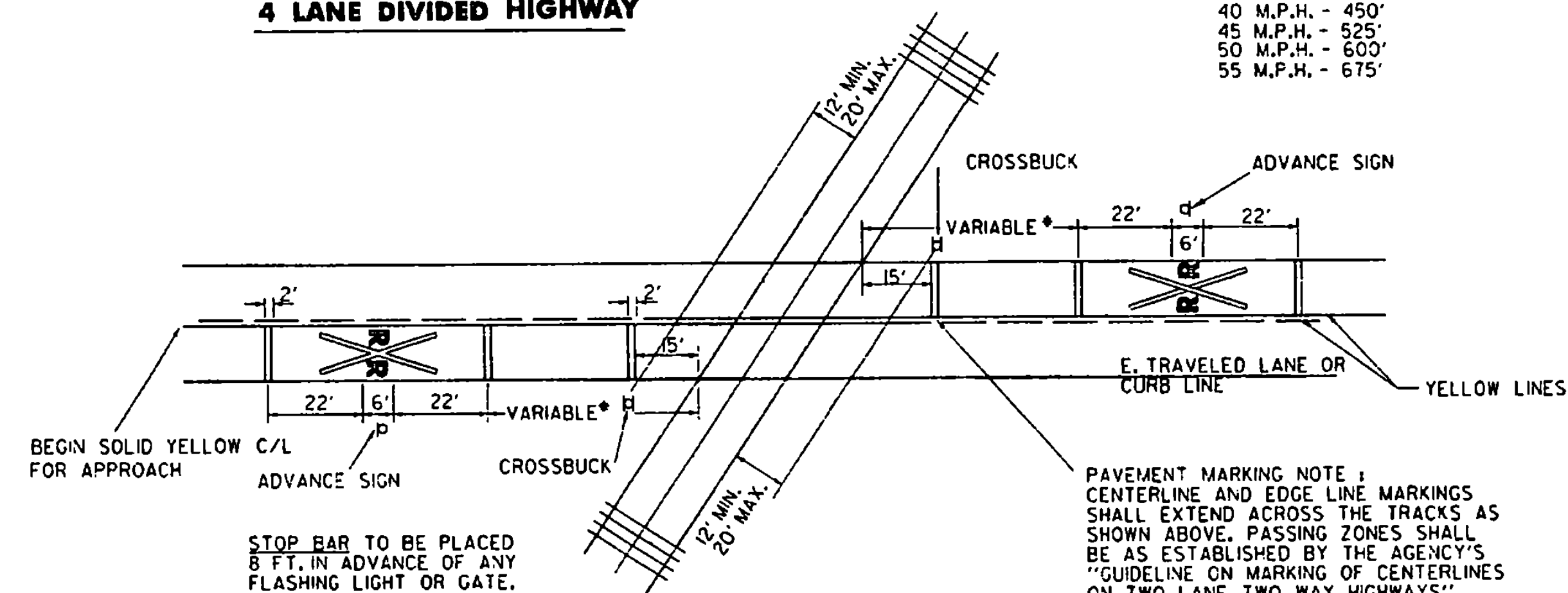


4 LANE DIVIDED HIGHWAY

* MIN. 50'

ON UNDIVIDED HIGHWAYS ELIMINATE MEDIAN SIGNS

- 20 M.P.H. - 150'
- 25 M.P.H. - 225'
- 30 M.P.H. - 300'
- 35 M.P.H. - 375'
- 40 M.P.H. - 450'
- 45 M.P.H. - 525'
- 50 M.P.H. - 600'
- 55 M.P.H. - 675'



2 LANE HIGHWAY PAVED

ALSO APPLICABLE TO UNPAVED ROADS FOR PLACEMENT OF CROSSBUCKS AND ADVANCE SIGNS

GENERAL NOTES

1. PAVEMENT MARKINGS

THESE MARKINGS SHALL BE PLACED, IF PHYSICALLY FEASIBLE ON ALL PAVED APPROACHES TO RAILROAD CROSSINGS, WHERE THERE ARE SIGNALS AND/OR AUTOMATIC GATE AND AT ALL OTHER CROSSINGS WHERE THE PREVAILING SPEED OF HIGHWAY TRAFFIC IS 40 M.P.H. OR GREATER.

THE MARKINGS SHALL ALSO BE PLACED AT CROSSINGS WHERE ENGINEERING STUDIES INDICATE THERE IS A SIGNIFICANT POTENTIAL CONFLICT BETWEEN VEHICLES AND TRAINS. ALL MARKINGS SHALL BE WHITE EXCEPT FOR MEDIAN EDGELINES AND CENTERLINE ON 2 LANE ROADS WHICH SHALL BE YELLOW. THE RAILROAD CROSSING SYMBOL SHALL CONSIST OF THE "X" FLANKED BY TWO "R"'S AND THREE 24" STOP BARS; TWO BRACKETING THE "X", ONE AT THE CROSSING. AT MINOR CROSSINGS OR IN URBAN AREAS, THESE MARKINGS MAY BE OMITTED IF AN ENGINEERING STUDY INDICATES THAT OTHER DEVICES INSTALLED PROVIDE SUITABLE PROTECTION.

2. CROSSBUCKS

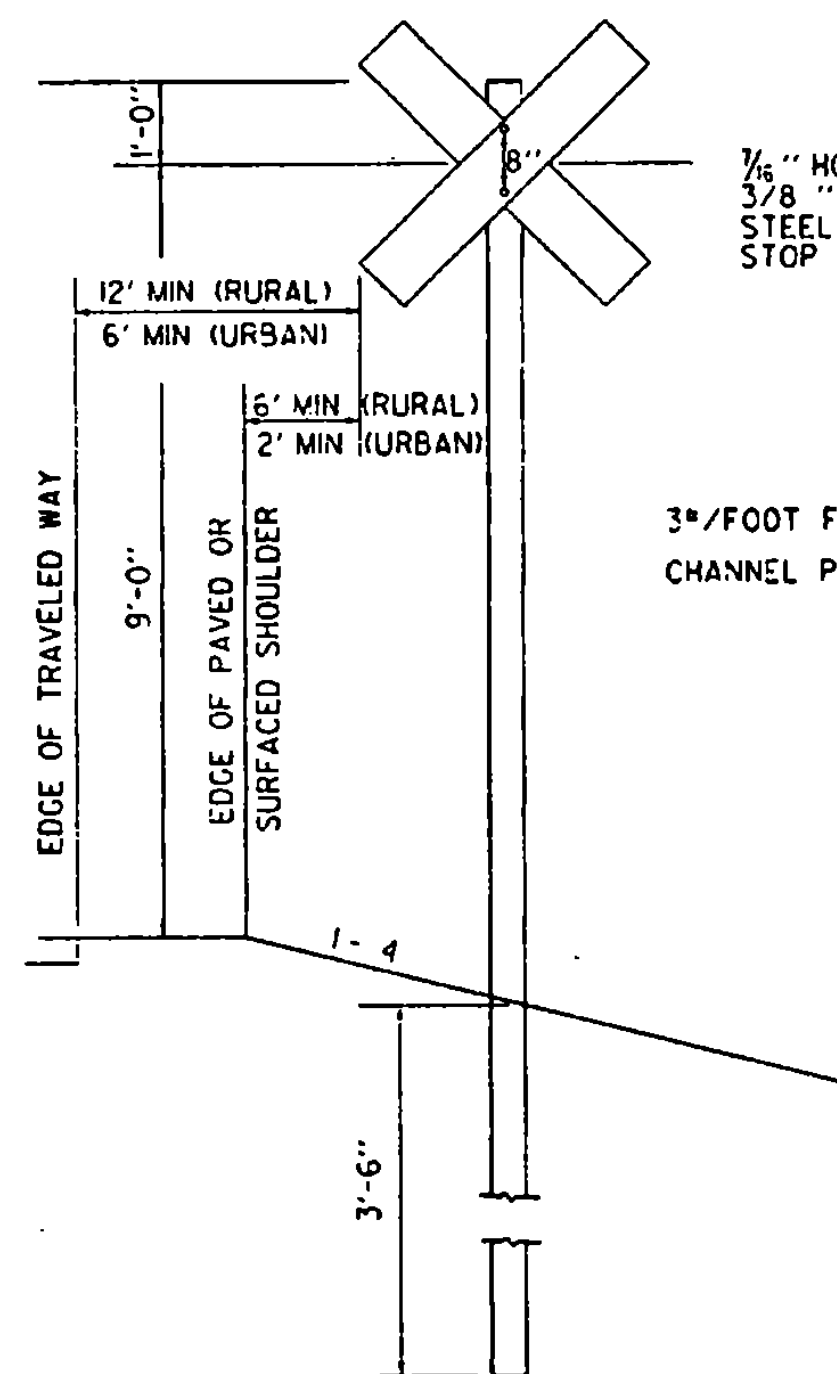
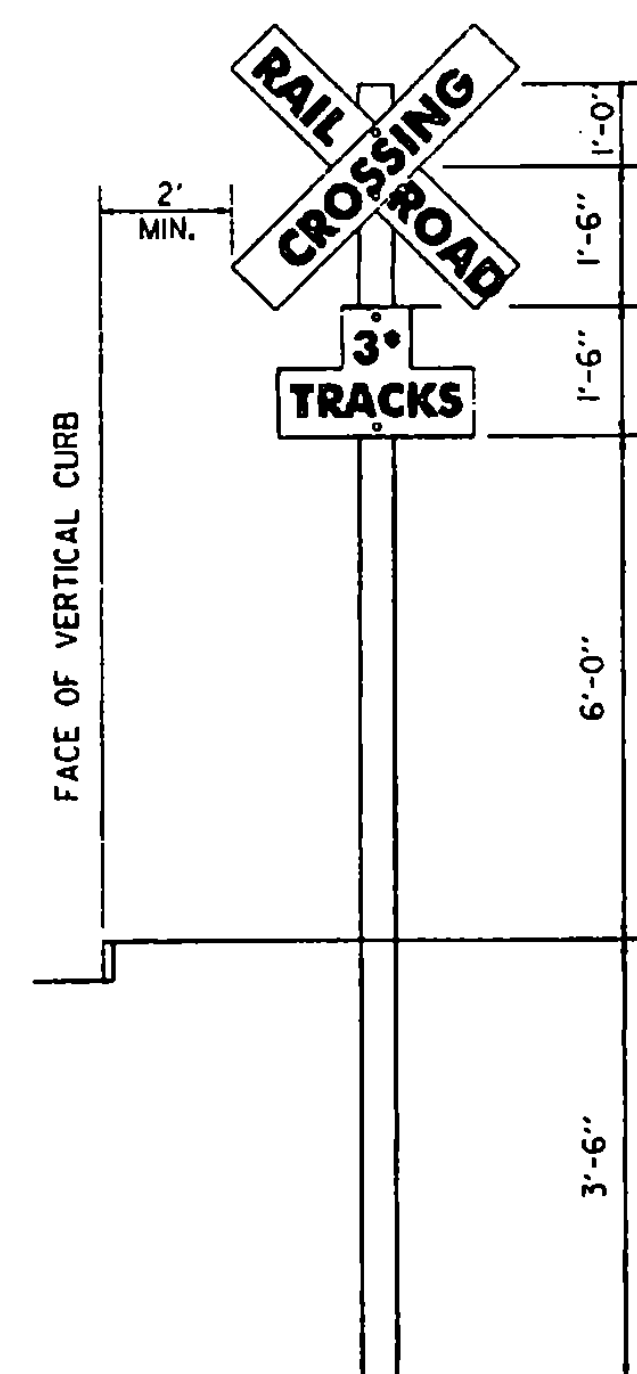
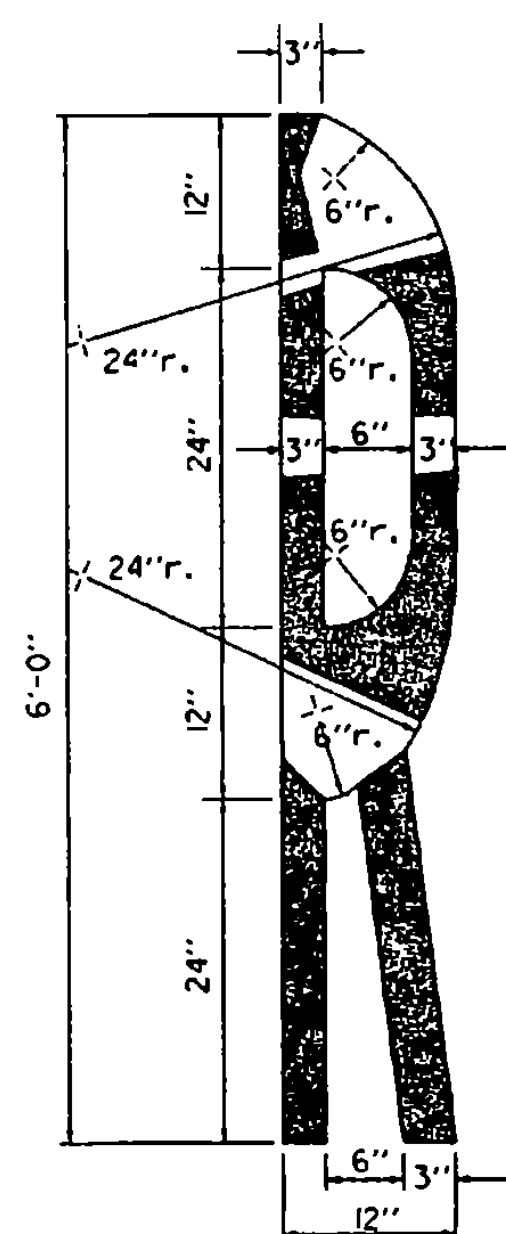
WHERE PHYSICALLY FEASIBLE AND VISIBLE TO APPROACHING TRAFFIC, THESE SIGNS SHALL BE INSTALLED ON THE RIGHT-HAND SIDE OF THE ROADWAY FOR EACH APPROACH TO THE CROSSING. MULTI-LANE DIVIDED HIGHWAYS SHALL HAVE SIGNS MOUNTED ON BOTH SIDES OF THE ROADWAY APPROACHES.

3. AUXILIARY SIGNS

A "NUMBER OF TRACKS" SIGN SHALL BE USED WHERE THERE ARE TWO OR MORE TRACKS AT THE CROSSING.

4. ADVANCE WARNING SIGNS

RAILROAD ADVANCE WARNING SIGNS WILL BE PROVIDED AND LOCATED IN ACCORDANCE WITH SECTION 8B-3 OF MUTCD



3"/FOOT FLANGED CHANNEL POST

1/4" HOLES FOR 3/8" x 5" STAINLESS STEEL BOLTS W/ELASTIC STOP NUTS

THIS SHEET IS NOT TO SCALE

OTHER STDS E-160 REQUIRED

REVISIONS AND CORRECTIONS

- SEPT. 10, 1987 - DATE OF ORIGINAL ISSUE
- JAN. 12, 1988 - REVISE LOCATION OF ADVANCE SIGNS
- AUG. 18, 1995 - DELETED ALUMINUM 3" X 3" TUBE

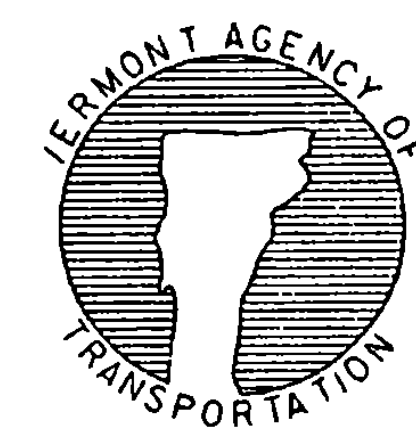
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APPROVED

Samuel S. McArthur
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

RAILROAD CROSSING SIGNS AND PAVEMENT MARKINGS



STANDARD E-190

\\traf\std\std\std90.dgn\std\std90.i