

WEIGHT		NOMINAL DIMENSIONS				
lbs/ft	IN	A	B	C	E	
2.00	IN	1.45 TO 1.55	3.00 TO 3.15	1.25 TO 1.30	0.62 TO 0.67	
3.00	MM	37 TO 38.5	77.5 TO 78.5	31.75 TO 32.5	15.8 TO 17.0	

WEIGHT TOLERANCES
 *+/-3.5%
 **+/-5%

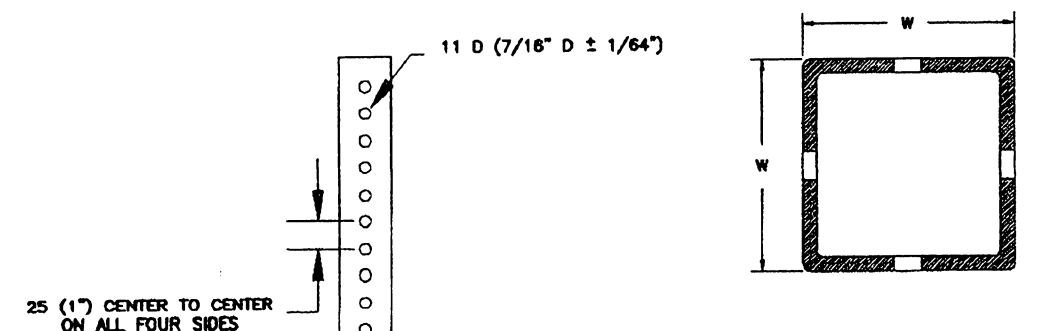
GENERAL NOTES:

1. STEEL POST SHALL CONFORM TO THE REQUIREMENTS OF ASTM A489, GRADE 60 OR MARION STEEL COMPANY GRADE SP-80.
2. AFTER FABRICATION, POST SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111 (ASTM A123).
3. THE BASE POST MAY HAVE SLOTTED HOLE 9.5 X 13 FOR THE FIRST AND FIFTH HOLE.

STEEL FLANGED CHANNEL TOP OR BASE POST

NOTE APPLICABLE TO ALL SMALL TRAFFIC SIGNS DRAWINGS:

1. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED. DIMENSIONS GIVEN IN METERS SHALL BE INDICATED WITH: M
2. SYSTEMS IN ENGLISH UNITS ARE ACCEPTABLE.
3. DIAMETER SHALL BE INDICATED WITH "D"
4. REFLECTIVE SHEETING USED ON ALL SIGNS SHALL CONFORM TO ASTM D4956, TYPE III. THE BACKING SHALL BE CLASS 1 OR 2.



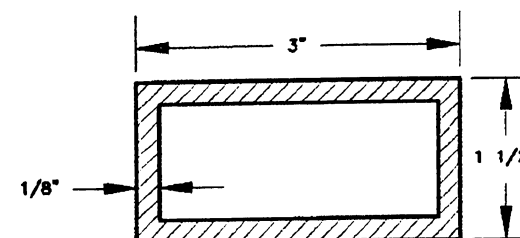
SQUARE STEEL POST

	SIZE (W)	GAGE	WEIGHT (lbs/ft)	SQUARENESS TOLERANCES
TOP POST	2"	14	1.99 TO 2.20	+/- .012
BASE POST	2 1/4"	12	2.77 TO 2.80	+/- .014

GENERAL NOTES

1. POST SHALL CONFORM TO THE REQUIREMENTS OF ASTM A570 GRADE 50 OR ASTM A653 STRUCTURAL QUALITY GRADE 50 - MODIFIED TO GRADE 55 (GA 14), GRADE 40 (GA 12).
2. AFTER FABRICATION, POST SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A653 G 90 OR AASHTO M120.
3. POSTS WITH DIE-PUNCHED KNOCKOUTS HOLES ARE ACCEPTABLE.

SQUARE STEEL POST TOP AND BASE POST



ALTERNATE STIFFENER

AS MANUFACTURED BY ALUMINUM EXTRUSION CORPORATION
 P.O. BOX 1622, CANOVANAS, PUERTO RICO 00729-1622

GENERAL NOTES:

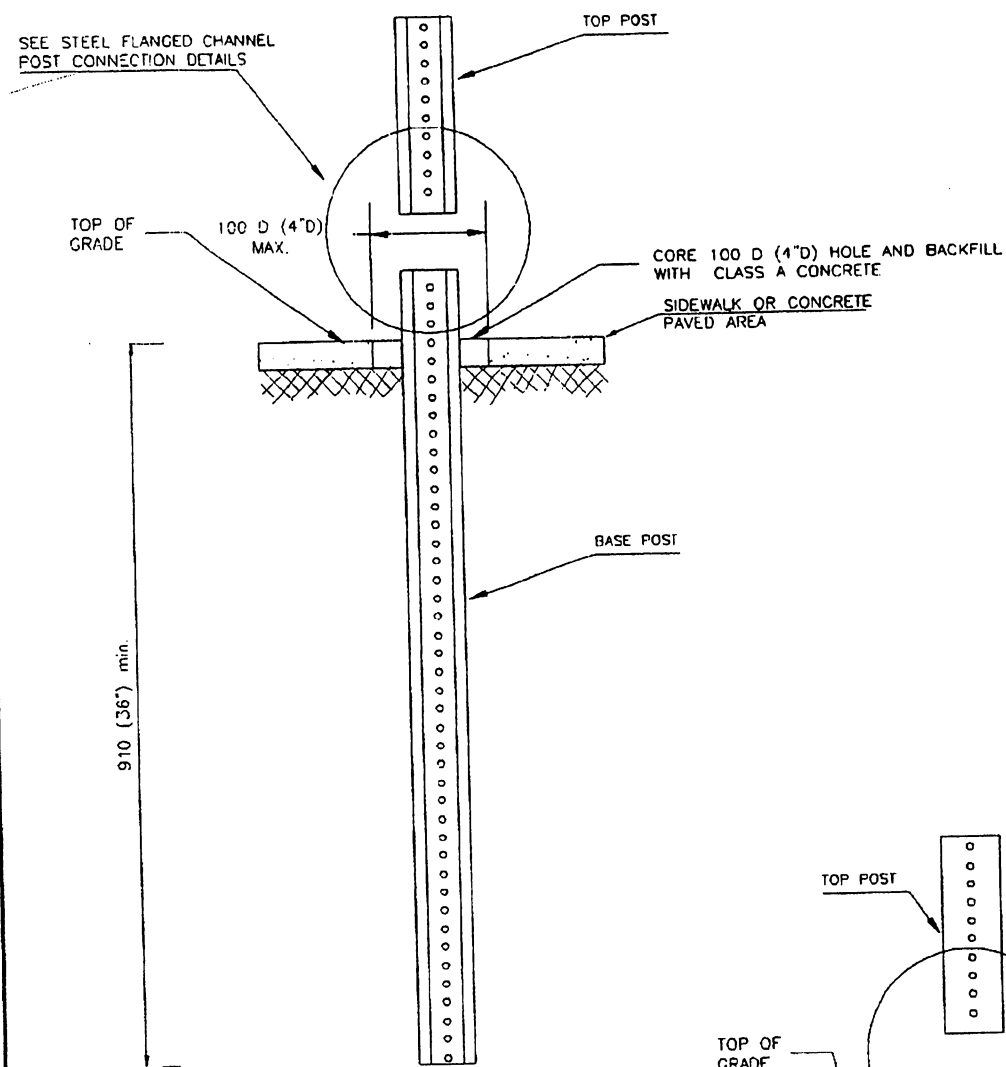
1. STIFFENER SHALL CONFORM TO ASTM B-209, ALLOY 6063 T-5

NOTE APPLICABLE TO ALL BASE TO TOP POST CONNECTION DETAILS:

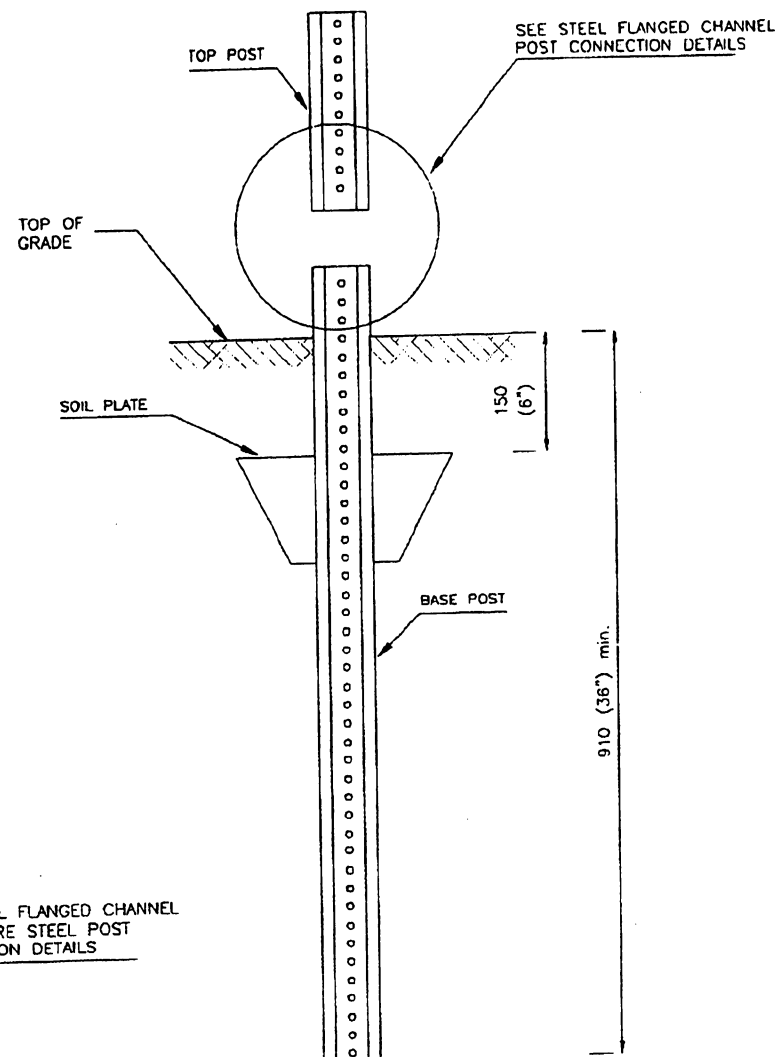
1. CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS WHO WISH TO INCLUDE THEIR PRODUCTS INTO THE APPROVED LISTING OF COUPLINGS BETWEEN THE BASE AND TOP POST MUST SUBMIT THE FOLLOWING INFORMATION FOR CONSIDERATION BY THE AUTHORITY: COPY OF FHWA LETTER OF ACCEPTANCE THAT THE DEVICE COMPLIES WITH THE NCHRP REPORT 350 REQUIREMENTS, FULL DESCRIPTION AND DRAWINGS OF THE COUPLER INCLUDING DIMENSIONS OF ALL COMPONENTS AND COMPLETE MATERIAL DESCRIPTION OF THE BASE METAL, GALVANIZING, FASTENERS AND OTHER PERTINENT INFORMATION.

EFFECTIVE DATE: JULY 2000

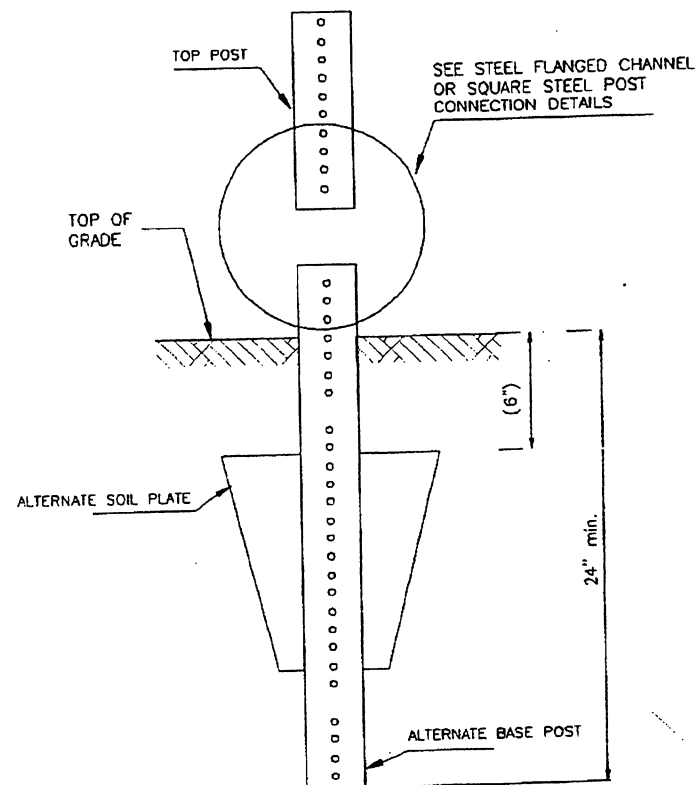
COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY			
SMALL TRAFFIC SIGNS STEEL FLANGED CHANNEL AND SQUARE STEEL POST DETAILS		RECOMMENDED BY: <i>[Signature]</i> DEPUTY EXC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 17-V-00	
		APPROVED BY: <i>[Signature]</i> EXECUTIVE DIRECTOR DATE: MAY-19-00	
DATE	REVISION	BY	STD. DWG.
02-1999	GENERAL REVISION, STIFFENER DETAIL	I.V.	STS 1 OF 25
05-2000	GENERAL REVISION	I.V.	



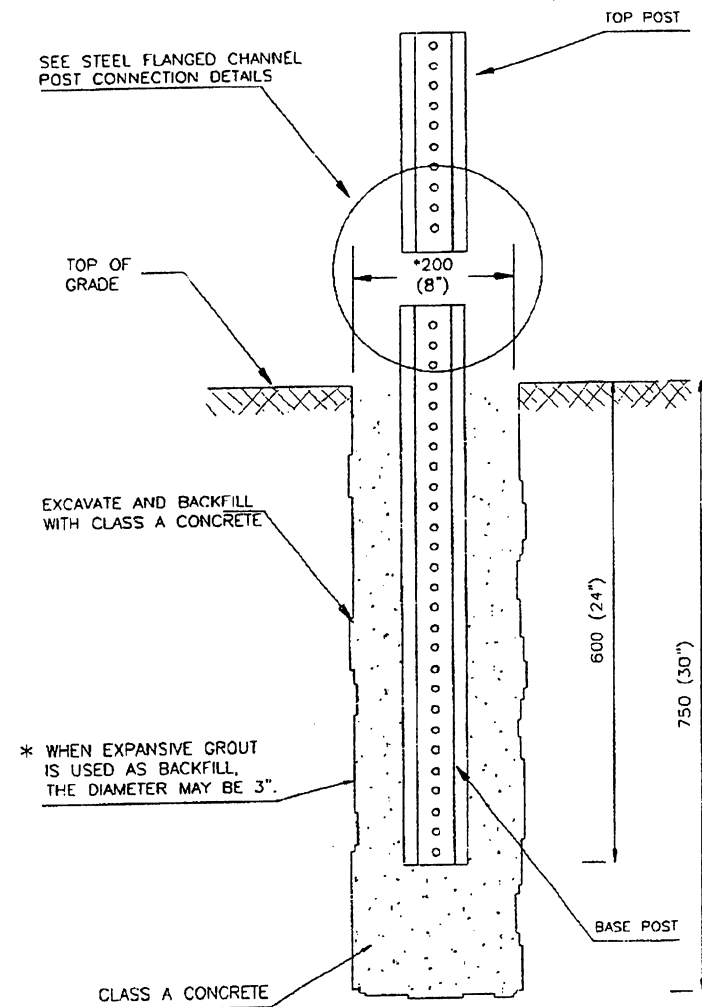
**SIDEWALK OR CONCRETE
PAVED AREA**



**NATURAL SOIL
USE SOIL PLATE**



**NATURAL SOIL
ALTERNATE BASE POST AND SOIL PLATE**



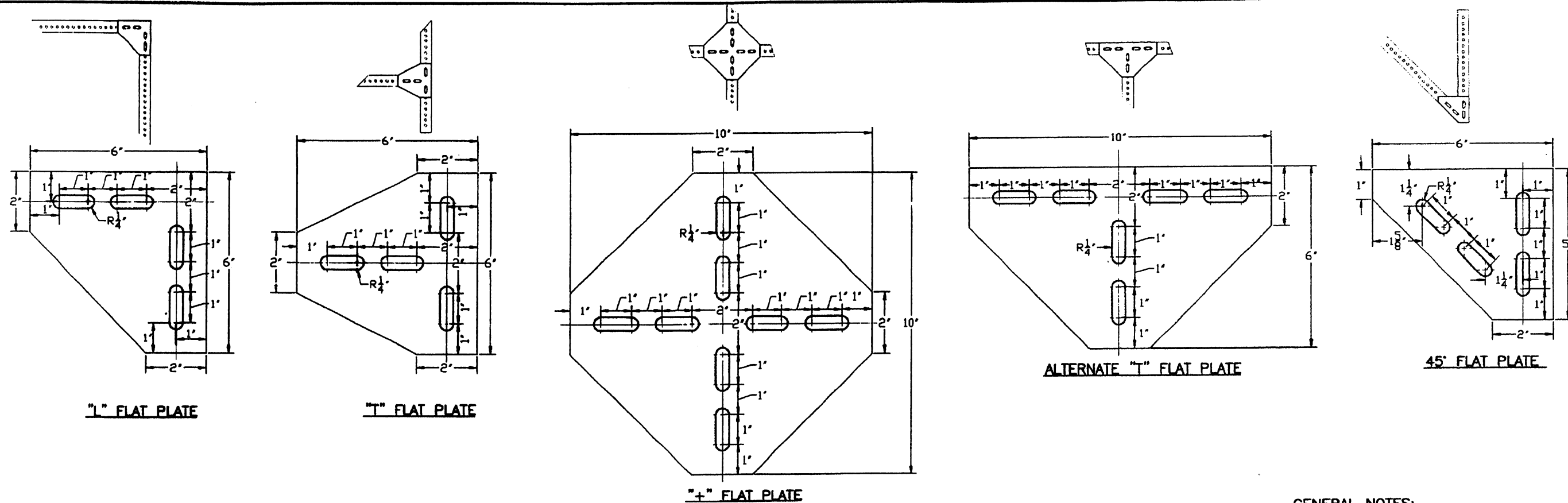
ROCK CONDITION

GENERAL NOTES:

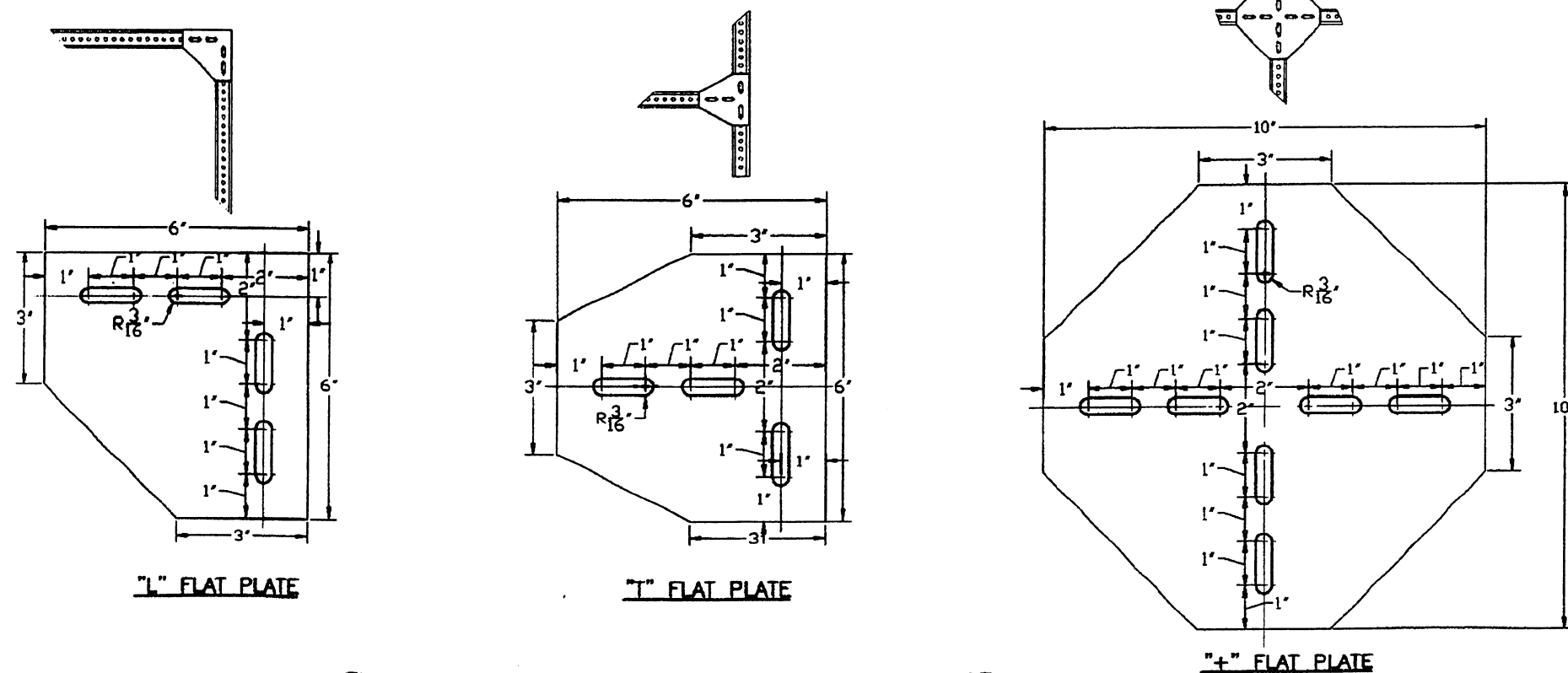
1. THE CONTRACTOR SHALL USE APPROPRIATE SIZE DRIVE CAP TO DRIVE POSTS.
2. FOR SIDEWALK OR CONCRETE PAVED AREA, THE CONTRACTOR SHALL CORE SIDEWALK SLAB 4\"D AND BACKFILL WITH CLASS A CONCRETE AS A SUBSIDIARY OBLIGATION.
3. FOR ROCK CONDITION, THE CONTRACTOR SHALL EXCAVATE (8\" DIAMETER HOLE) AND BACKFILL WITH CLASS A CONCRETE OR EXCAVATE (3\" DIAMETER HOLE) AND BACKFILL WITH EXPANSIVE GROUT AS A SUBSIDIARY OBLIGATION.

EFFECTIVE DATE: OCTOBER 2000

COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS STEEL FLANGED CHANNEL POST FOUNDATION DETAILS		RECOMMENDED BY: DEPUTY EXC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 21-5-00
		APPROVED BY: EXECUTIVE DIRECTOR DATE: 26-7X-00
DATE	REVISION	BY
02-99	GENERAL REVISION	I.V.
10-1999	ADD NOTE 11& 12	I.V.
09-2000	ADDED ALTERNATIVE FOUNDATION	I.V.
STD. DWG.	STS 2 OF 25	



FLAT PLATE FOR SQUARE STEEL POST OR STEEL FLANGED CHANNEL POST



FLAT PLATE FOR STEEL FLANGED CHANNEL POST

GENERAL NOTES:

1. THE STEEL FLAT PLATE SHALL CONFORM WITH THE REQUIREMENTS OF ASTM A570 GRADE 33 OR ASTM A36.
2. THE CONTRACTOR MAY USE ALUMINUM FLAT PLATE AS AN ALTERNATE. ALTERNATE FLAT PLATE SHALL CONFORM TO ASTM B-209, ALLOY 5052 H-32. THE CONTRACTOR SHALL DRILL NECESSARY HOLES TO COMPLETE INSTALLATION AS A SUBSIDIARY OBLIGATION.
3. AFTER ALL PUNCHING, DRILLING, STAMPING AND WELDING IS COMPLETE, THE STEEL FLAT PLATE SHALL BE ZINC-COATED BY THE HOT-DIP PROCESS ACCORDING TO AASHTO M111 (ASTM A123).
4. ALUMINUM OR STEEL FLAT PLATE THICKNESS SHALL BE 1/8\".
5. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST AND STIFFENER CONNECTIONS AS A SUBSIDIARY OBLIGATION.
6. THE CONTRACTOR SHALL PLACE AT LEAST TWO 5/16\" ALUMINUM FLAT HEAD MACHINE SCREWS WITH NUTS AND LOCK WASHER PER EACH POST.

EFFECTIVE DATE: JULY 2000

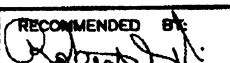
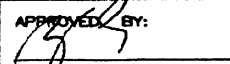
COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY			RECOMMENDED BY: <i>[Signature]</i> DEPUTY EXC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 17-7-00	
SMALL TRAFFIC SIGNS STEEL FLANGED CHANNEL AND SQUARE STEEL POST "L", "T", "+" AND "45" FLAT PLATES			APPROVED BY: <i>[Signature]</i> EXECUTIVE DIRECTOR DATE: MAY-19-00	
DATE	REVISION	BY	STD.	STS
4-1999	NOTES REVISION	I.V.	DWG.	6 OF 25
10-1999	ADD ALTERNATE "T" FLAT PLATE	I.V.		
03-2000	DELETED NOTE 7	I.V.		

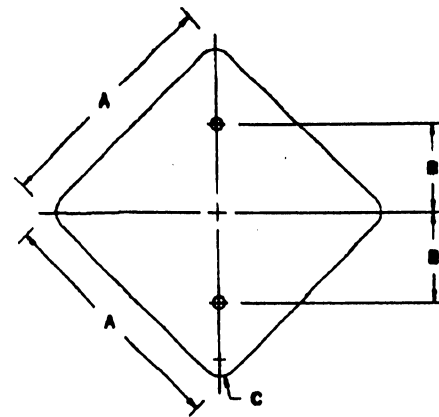
GENERAL NOTES APPLICABLE TO ALL SMALL TRAFFIC SIGNS STANDARD DRAWINGS

1. NO SPLICES IN SIGN PLATES SHALL BE PERMITTED WHEN SIGN DIMENSIONS ARE 1200 (4') X 1200 (4') MILLIMETERS OR LESS.
2. NO SPLICES IN THE REFLECTIVE SHEETING WILL BE PERMITTED WHEN THE SIGN HEIGHT IS 1200 MILLIMETERS (4') OR LESS. NO REFLECTIVE SHEETING SPLICES WILL BE PERMITTED IN DIAMOND SIGNS WITH DIMENSIONS OF 1200 MILLIMETERS (4') OR LESS. ON SIGNS WITH HEIGHTS IN EXCESS OF 1200 MILLIMETERS (4'), A SINGLE HORIZONTAL SPLICE WILL BE PERMITTED. THE SPLICE UPPER PANEL SHALL OVERLAP 3/8" MAX. THE LOWER PANEL.
3. SIGN PLATES SHALL CONFORM TO ASTM B-209, ALLOYS 5052 H-32, 5052 H-36, 5052 H-38, 5086 H-34, 5154 H-36 OR 6061 T-6.
4. ALL TOP POSTS AND BASE POSTS SHALL BE CONTINUOUS IN LENGTH.
5. THE SIGN BACKGROUND, LEGEND AND BORDER SHALL BE APPLIED BY THE SILK SCREEN PROCESS, BY DIRECT APPLICATION OF CUT OUT CHARACTERS, OR BY THE APPLICATION OF ELECTRONIC CUTTABLE FILM, SERIES 1170, AS MANUFACTURED BY 3M OR ELECTRONIC CUTTABLE TRANSPARENT OVERLAY FILM, SERIES 4800, AS MANUFACTURED BY STIMSONITE. REGARDLESS OF THE METHOD OF FABRICATION, THE BACKGROUND, LEGEND AND BORDER SHALL MEET THE REFLECTIVITY STANDARDS OF ASTM D4956, TYPE III.
6. SIGN PLATES THICKNESS SHALL BE AS FOLLOWS:

MINIMUM PLATE THICKNESS IN (MM)	PLATE AREA SQF (SQM)
1/16" (1.5)	UP TO 10.8 (UP TO 1.00)
1/8" (3.175)	10.85 TO 53.8 (1.01 TO 5.00)

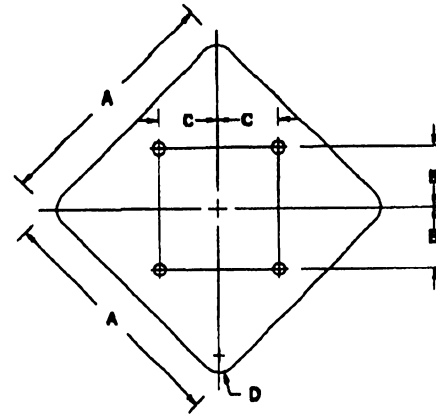
7. THE CONTRACTOR SHALL DRILL ALL ADDITIONAL HOLES, AS A SUBSIDIARY OBLIGATION, AS NECESSARY TO ACCOMMODATE MOUNTING REQUIREMENTS. THE HOLE DIAMETER SHALL NOT EXCEED 1/16" THE BOLT DIAMETER.
8. THE CONTRACTOR SHALL USE ON ALL BOLTS WHICH CONTACT THE REFLECTIVE SHEETING, A NYLON, NEOPRENE OR FIBER WASHER BETWEEN THE REFLECTIVE SHEETING SIGN FACE AND THE BOLT HEAD.
9. ALL BOLTS IDENTIFIED AS A307 SHALL CONFORM WITH ASTM A307 REQUIREMENTS AND BE PROVIDED WITH CORRESPONDING NUT AND WASHER. BOLTS A307 SHALL BE EITHER GRADE A OR B AND SHALL BE HOT-DIP GALVANIZED. UNLESS OTHERWISE SPECIFIED, BOLT HEAD MAY BE EITHER HEX OR CARRIAGE.
10. REFLECTIVE SHEETING FROM DIFFERENT MANUFACTURERS SHALL NOT BE MIXED WITHIN THE SAME SIGN PANEL. SIGN PANELS FABRICATED WITH REFLECTIVE SHEETING FROM DIFFERENT MANUFACTURERS SHALL NOT BE MIXED WITHIN THE SAME SIGN SUPPORT.

EFFECTIVE DATE: OCTOBER 2000		
COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS GENERAL NOTES		RECOMMENDED BY:  DEPUTY EXEC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 01-24-00
		APPROVED BY:  EXECUTIVE DIRECTOR DATE: 10-18-00
DATE	REVISION	BY
03-2000	ADDED NOTES	I.V.
09-2000	ADDED NOTE 10	I.V.
STD. DWG.	STS 7 OF 25	



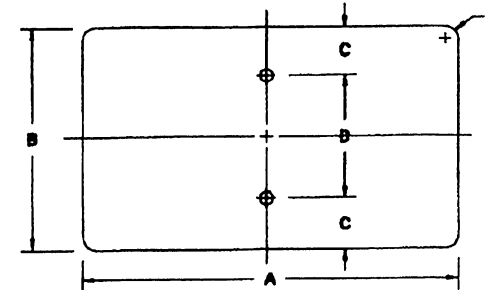
DIAMOND

A	B	C
600	300	35
750	375	45
900	450	55



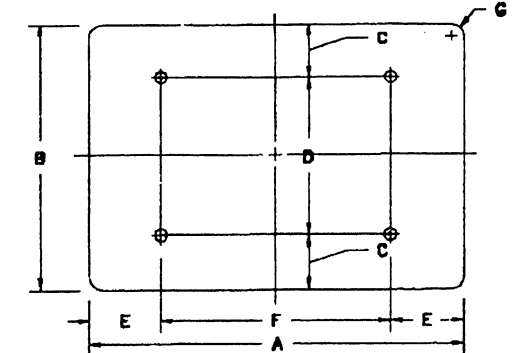
DIAMOND

A	B	C	D
1200	375	375	75
1500	450	450	95



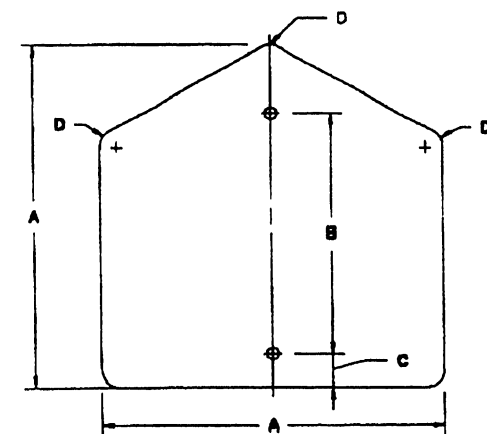
HORIZONTAL RECTANGLE

A	B	C	D	E
525	375	35	305	35
600	300	70	230	35
600	450	75	300	35
750	375	70	305	35
750	600	75	450	35
900	300	70	230	35



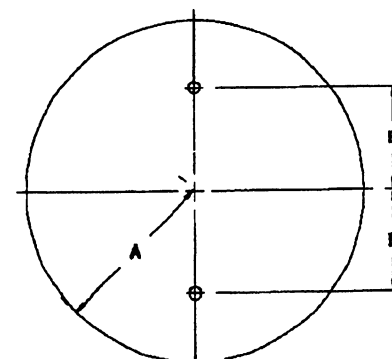
HORIZONTAL RECTANGLE

A	B	C	D	E	F	G
900	600	75	450	150	600	35
1200	600	75	450	225	750	45
1200	900	150	600	225	750	55
1500	600	75	450	300	900	35
1500	900	300	600	600	900	55



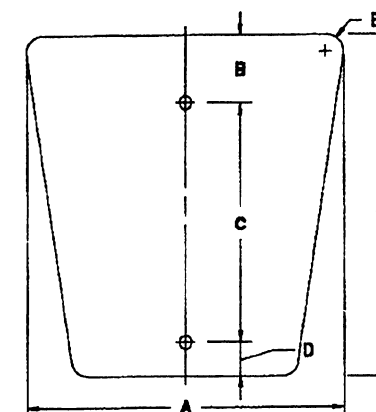
PENTAGON (SCHOOL)

A	B	C	D
750	525	75	45
900	600	75	55



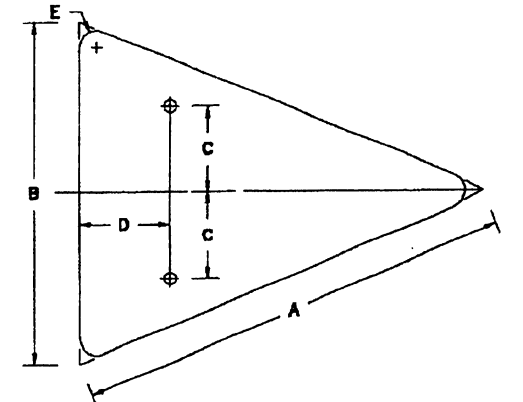
CIRCLE

A	B
375	300
450	375



TOURISTIC ROUTES AND NATIONAL FOREST SHIELD

A	B	C	D	E
450	50	375	25	50
600	60	500	40	60



ISOSCELES TRIANGLE

A	B	C	D	E
1000	750	185	300	45
1200	900	225	375	55

EFFECTIVE DATE: DECEMBER 1999

COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS BLANK PLATE STANDARDS	RECOMMENDED BY: <i>[Signature]</i> DEPUTY DIR. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 2-2-00	APPROVED BY: <i>[Signature]</i> DEPUTY DIR. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 2-2-00
	APPROVED BY: <i>[Signature]</i> DIR. ADM. DIVISION DATE: 11-2-99	
	DATE: 11-2-99	
	DATE: 11-2-99	
DATE	REVISION	BY
2-1999	GENERAL REVISION	I.V.
5-1999	GENERAL REVISION	I.V.
10-1999	GENERAL REVISION	I.V.
STD. DWG.	STS BA OF 25	

OCTAGONS (STOP)	
INCHES	MILLIMETERS
24 X 24	600 X 600
30 X 30	750 X 750
36 X 36	900 X 900
48 X 48	1200 X 1200

TRIANGLES (YIELD)	
INCHES	MILLIMETERS
30 X 30 X 30	750 X 750 X 750
36 X 36 X 36	900 X 900 X 900
48 X 48 X 48	1200 X 1200 X 1200
60 X 60 X 60	1500 X 1500 X 1500

SQUARES AND DIAMONDS	
INCHES	MILLIMETERS
18 X 18	450 X 450
24 X 24	600 X 600
30 X 30	750 X 750
36 X 36	900 X 900
48 X 48	1200 X 1200
60 X 60	1500 X 1500

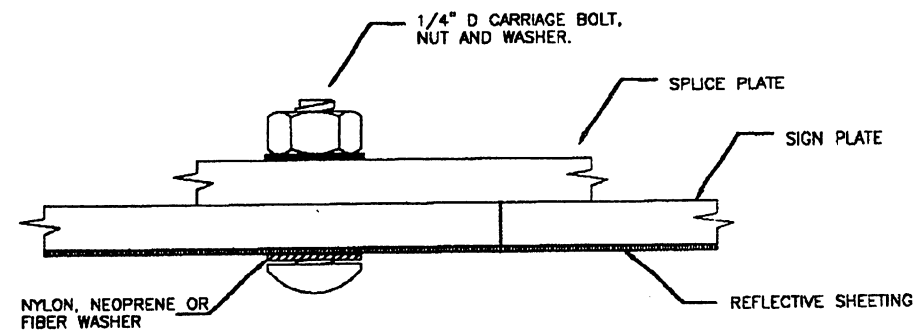
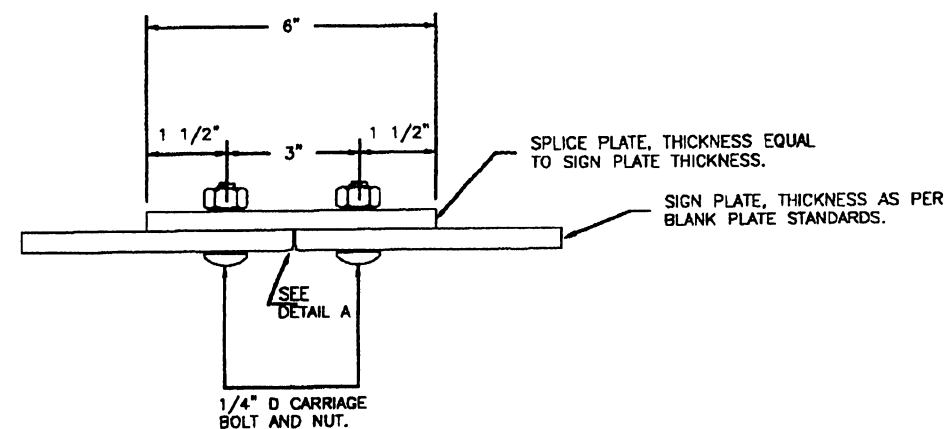
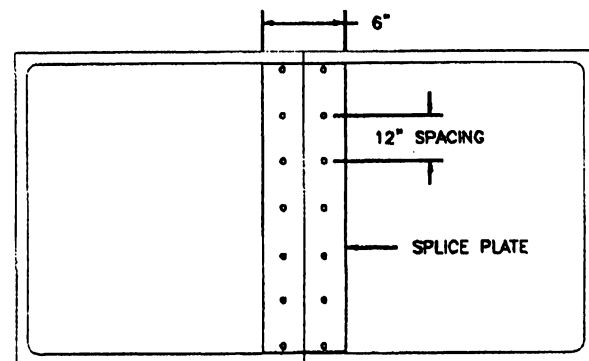
RECTANGLES (VERTICAL)	
INCHES	MILLIMETERS
12 X 18	300 X 450
18 X 24	450 X 600
24 X 30	600 X 750
30 X 36	750 X 900
36 X 48	900 X 1200
48 X 60	1200 X 1500

CIRCLES (RR)	
INCHES	MILLIMETERS
30" DIA.	750 DIA.
36" DIA.	900 DIA.

RECTANGLES (HORIZONTAL)	
INCHES	MILLIMETERS
21 X 15	525 X 375
24 X 12	600 X 300
24 X 18	600 X 450
30 X 15	750 X 375
30 X 24	750 X 600
36 X 12	900 X 300
36 X 24	900 X 600
48 X 24	1200 X 600
48 X 36	1200 X 900
60 X 24	1500 X 600
60 X 36	1500 X 900

EFFECTIVE DATE : MAY 1998

COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY				
SMALL TRAFFIC SIGNS CONVERSION TABLE METRIC EQUIVALENTS		RECOMMENDED BY: <i>Roberto J. Ruiz</i> ASST. EXC. DIR. FOR TRAFFIC DATE: <i>5-4-98</i>		
		APPROVED BY: <i>[Signature]</i> EXECUTIVE DIRECTOR DATE: <i>5-20-98</i>		
		APPROVED BY: <i>[Signature]</i> DIV. ADM. FHWA-PR DIVISION DATE: <i>4-30-98</i>		
		DATE	REVISION	BY
			STD. DWG.	STS 9 OF 25



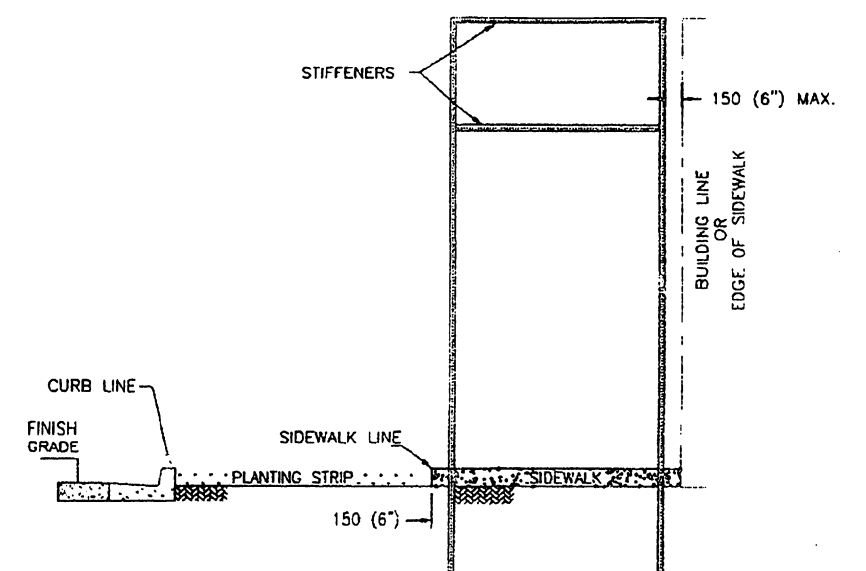
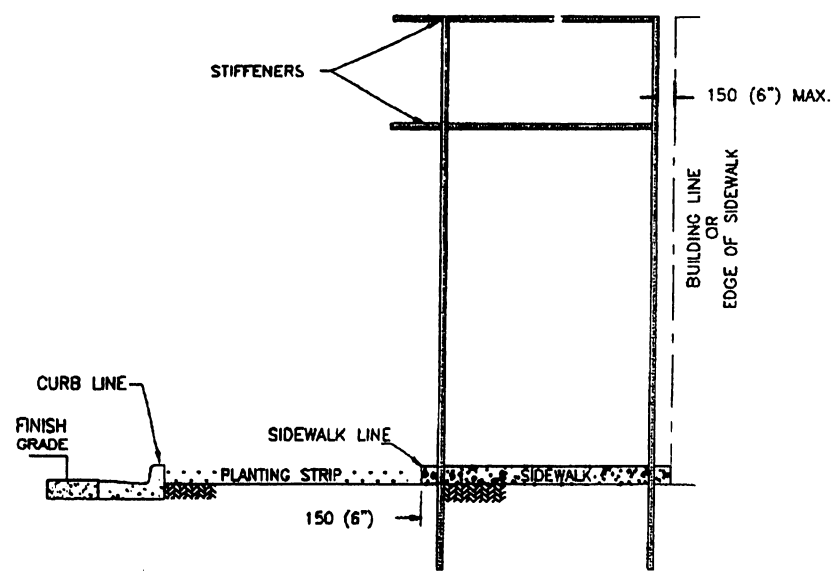
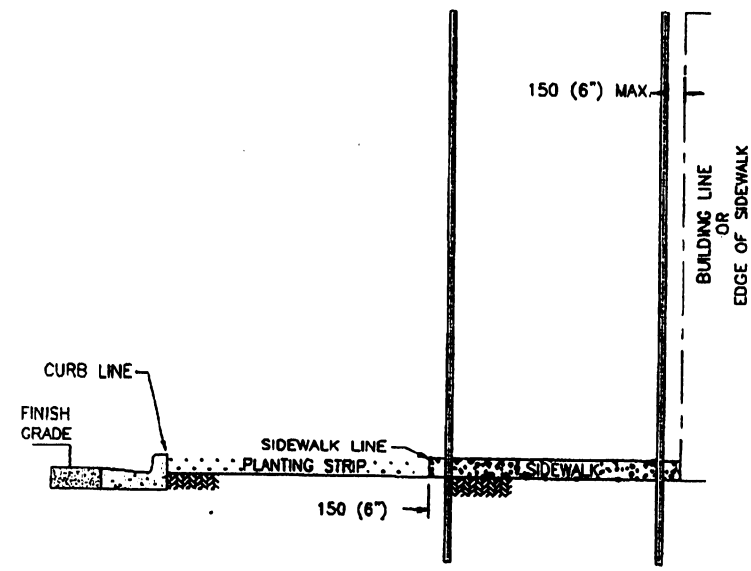
DETAIL A

SIGN PLATE SPLICES

GENERAL NOTES:

1. NO SPLICES IN SIGN PLATES SHALL BE PERMITTED WHEN SIGN DIMENSIONS ARE 1200 (4') X 1200 (4') OR LESS.
2. THE CONTRACTOR SHALL ADJUST THE LENGTH OF CARRIAGE BOLT. THE BOLT SHALL PENETRATE THE ENTIRE THICKNESS OF THE NUT.

EFFECTIVE DATE: DECEMBER 1999		
COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS SIGN PANEL SPLICES		RECOMMENDED BY: DEPUTY EXC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 28-08-99
		APPROVED BY: EXECUTIVE DIRECTOR DATE: 12-1-99
		APPROVED BY: DR. ADM. FHWA-PR DIVISION DATE: 11-2-99
DATE	REVISION	BY
4-1999	DETAIL DELETED	L.V.
10-1999	ADD NOTE, DETAIL DELETE	L.V.
STD.	STS	
DWG.	10 OF 25	



H SUPPORT MOUNTING

1. FOR SIGN PANELS WITH A SIGN PANEL AREA EQUAL OR LESS THAN 2.6 SQUARE METERS, 28 SQUARE FEET
2. FOR SIGN PANELS WITH A SIGN PANEL AREA GREATER THAN 28 SQ USE GROUND MOUNTED BREAK-AWAY INSTALLATION.

CANTILEVER SUPPORT MOUNTING

1. FOR SQUARE, RECTANGULAR, PENTAGONAL, OCTAGONAL, DIAMOND AND EQUILATERAL TRIANGLE SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH GREATER THAN 600 (24").
2. FOR OCTAGONAL, DIAMOND, TOURISTIC AND CIRCULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").

GENERAL NOTES:

1. VERTICAL CLEARANCE TO BOTTOM OF LOWEST SIGN PANEL SHALL BE 2.130 (7'-0") TO 2.300 (7'-6") FROM SIDEWALK GRADE.
2. THE CONTRACTOR MAY USE STEEL FLANGED CHANNEL POST OR SQUARE STEEL POST.
3. THE FOUNDATIONS SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST FOUNDATION DETAILS STANDARD DRAWING. TOP POST TO BASE POST CONNECTION SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST CONNECTION DETAILS STANDARD DRAWING.
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION.
5. ALL TOP POSTS AND BASE POSTS SHALL BE CONTINUOUS IN LENGTH.
6. THE MAXIMUM AREA PERMITTED FOR SINGLE AND CANTILEVER SUPPORT MOUNTING SHALL BE 6 SQUARE FEET.
7. STIFFENERS SHALL BE SQUARE POST, STEEL FLANGED CHANNEL OR ALTERNATE STIFFENER.
8. MINIMUM OFFSET FROM CURB LINE TO SIGN PANEL SHALL BE 600 (24") MIN.
9. THE CONTRACTOR SHALL LOCATE POST AND STIFFENERS AS PER TYPICAL POST LOCATION FOR MOUNTING ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP STANDARD DRAWINGS.

EFFECTIVE DATE: JULY 2000

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

SMALL TRAFFIC SIGNS
STEEL FLANGED CHANNEL
AND
SQUARE STEEL POST
MOUNTING ON SIDEWALK AREAS
WITH PLANTING STRIP

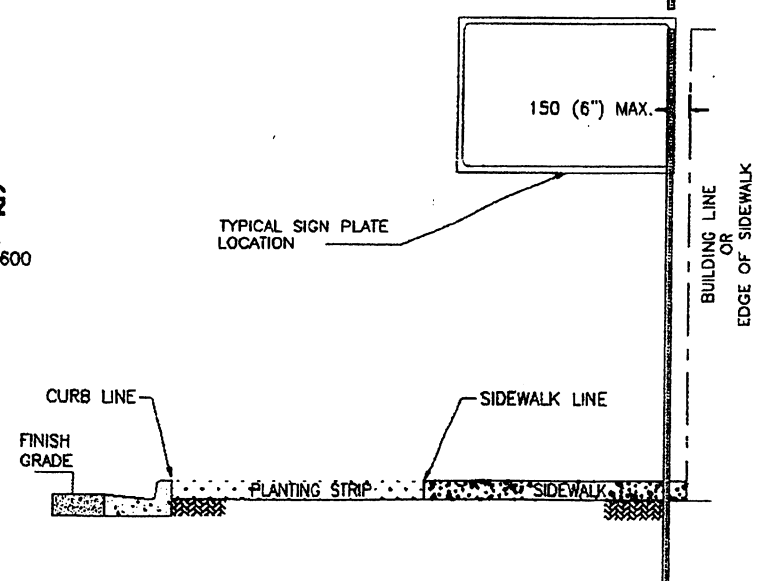
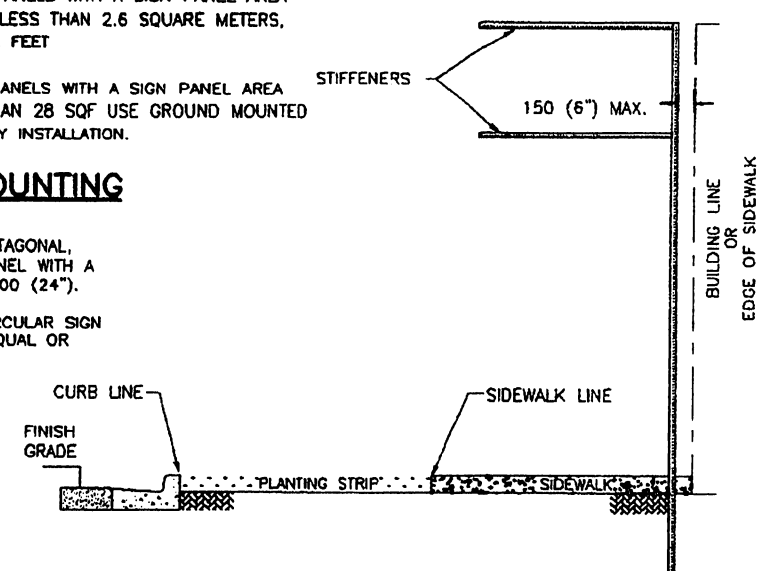
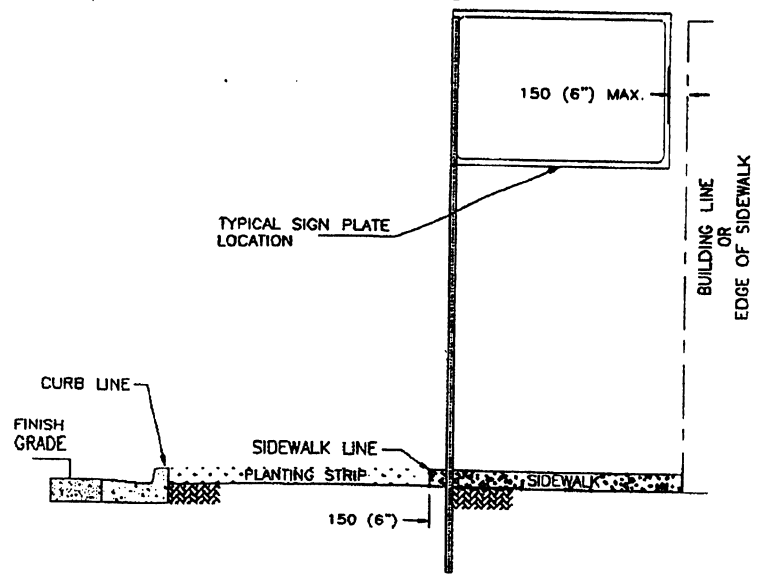
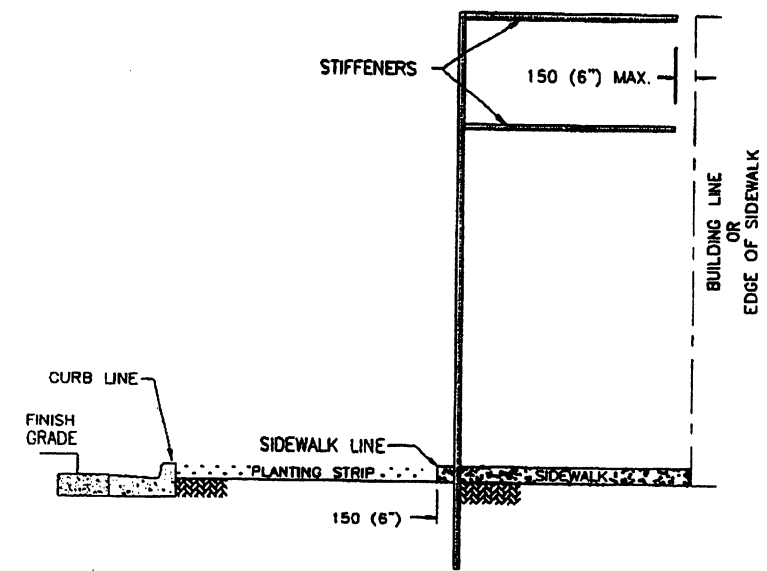
RECOMMENDED BY:
[Signature]
DEPUTY EXC. DIR. FOR
TRAFFIC AND TOLL ROADS
DATE: 17-V-00
APPROVED BY:
[Signature]
EXECUTIVE DIRECTOR
DATE: MAY-19-00

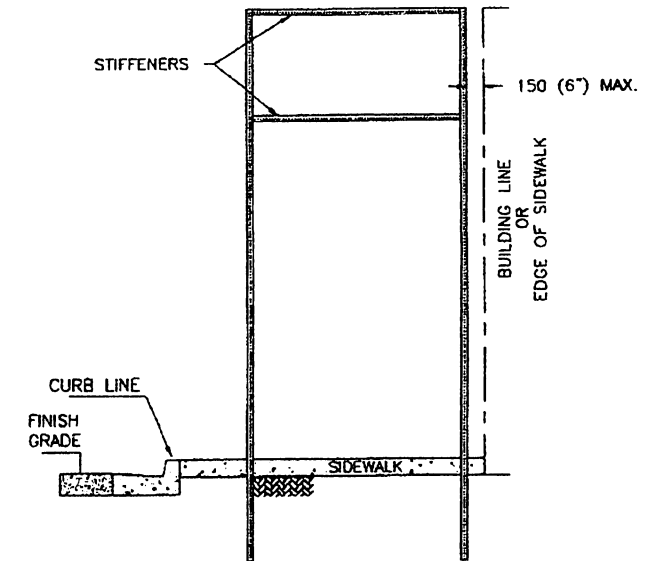
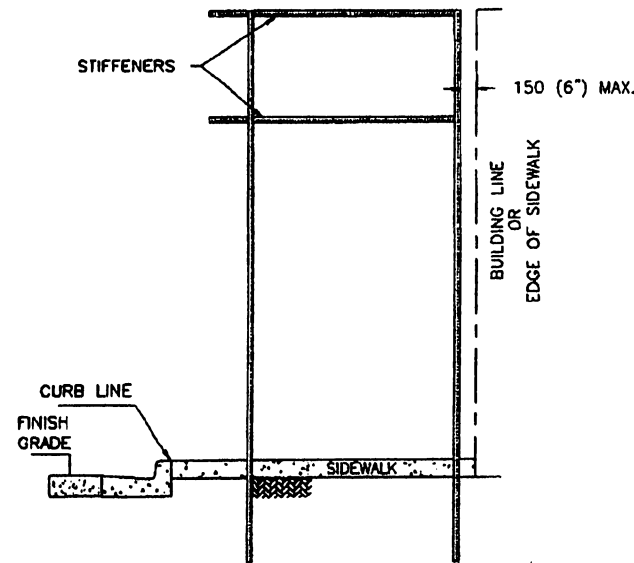
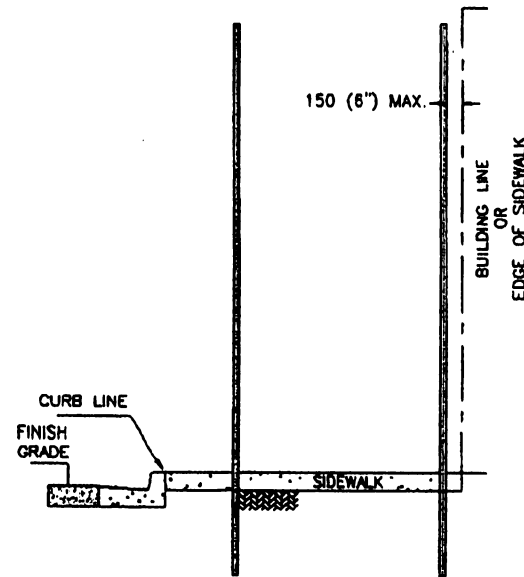
DATE	REVISION	BY
07-1999	ADD NOTE	I.V.
10-1999	GENERAL REVISION	I.V.
03-2000	REVISED NOTES	I.V.

STD. DWG. 11 OF 25

SINGLE SUPPORT MOUNTING

1. FOR SQUARE AND RECTANGULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").
2. FOR ISOSCELES TRIANGLE SIGN PANEL USE SINGLE SUPPORT MOUNTING.



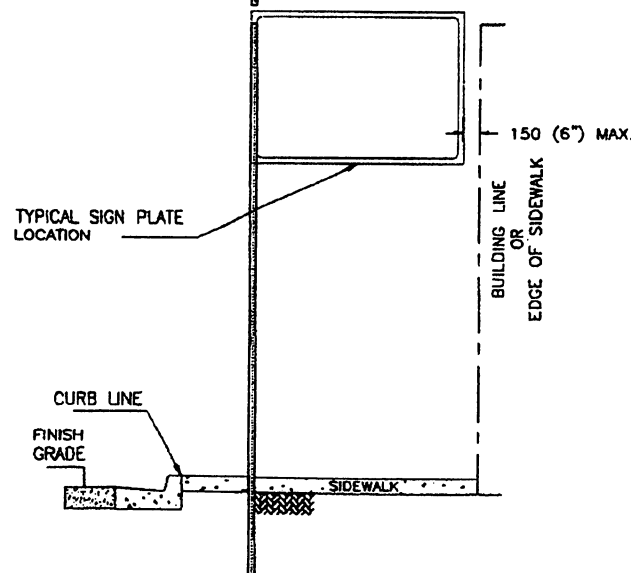
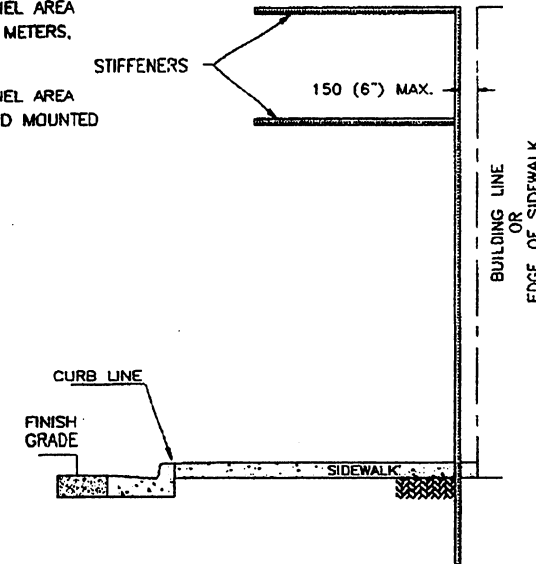
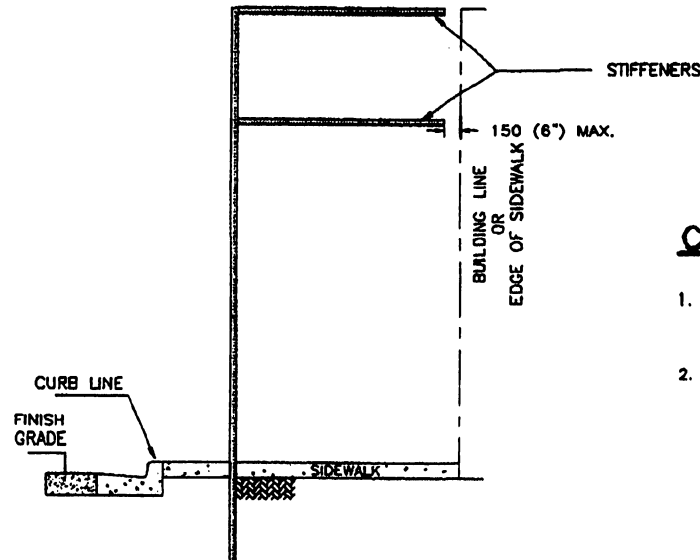


H SUPPORT MOUNTING

1. FOR SIGN PANELS WITH A SIGN PANEL AREA EQUAL OR LESS THAN 2.6 SQUARE METERS, 28 SQUARE FEET.
2. FOR SIGN PANELS WITH A SIGN PANEL AREA GREATER THAN 28 SQF USE GROUND MOUNTED BREAK-AWAY INSTALLATION.

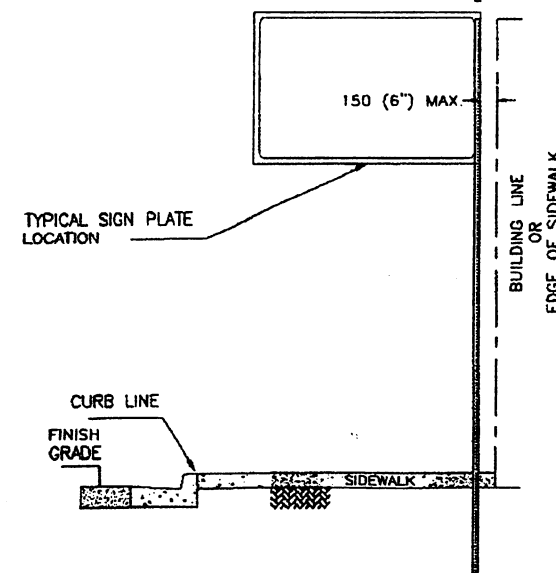
CANTILEVER SUPPORT MOUNTING

1. FOR SQUARE, RECTANGULAR, PENTAGONAL, OCTAGONAL, DIAMOND AND EQUILATERAL TRIANGLE SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH GREATER THAN 600 (24").
2. FOR OCTAGONAL, DIAMOND, TOURISTIC AND CIRCULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").



SINGLE SUPPORT MOUNTING

1. FOR SQUARE AND RECTANGULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").
2. FOR ISOSCELES TRIANGLE SIGN PANEL USE SINGLE SUPPORT MOUNTING.



GENERAL NOTES:

1. VERTICAL CLEARANCE TO BOTTOM OF LOWEST SIGN PANEL SHALL BE 2,130 (7'-0") TO 2,300 (7'-6") FROM SIDEWALK GRADE.
2. THE CONTRACTOR MAY USE STEEL FLANGED CHANNEL POST OR SQUARE STEEL POST.
3. THE FOUNDATIONS SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST FOUNDATION DETAILS FOR SIDEWALK OR CONCRETE PAVED AREA STANDARD DRAWING. TOP POST TO BASE POST CONNECTION SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST CONNECTION DETAILS STANDARD DRAWING.
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION.
5. ALL TOP POSTS AND BASE POSTS SHALL BE CONTINUOUS IN LENGTH.
6. THE MAXIMUM AREA PERMITTED FOR SINGLE AND CANTILEVER SUPPORT MOUNTING SHALL BE 6 SQUARE FEET.
7. STIFFENERS SHALL BE SQUARE POST, STEEL FLANGED CHANNEL OR ALTERNATE STIFFENER.
8. MINIMUM OFFSET FROM CURB LINE TO SIGN PANEL SHALL BE 600 (24") MIN.
9. THE CONTRACTOR SHALL LOCATE POST AND STIFFENERS AS PER TYPICAL POST LOCATION FOR MOUNTING ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP STANDARD DRAWINGS

EFFECTIVE DATE: JULY 2000

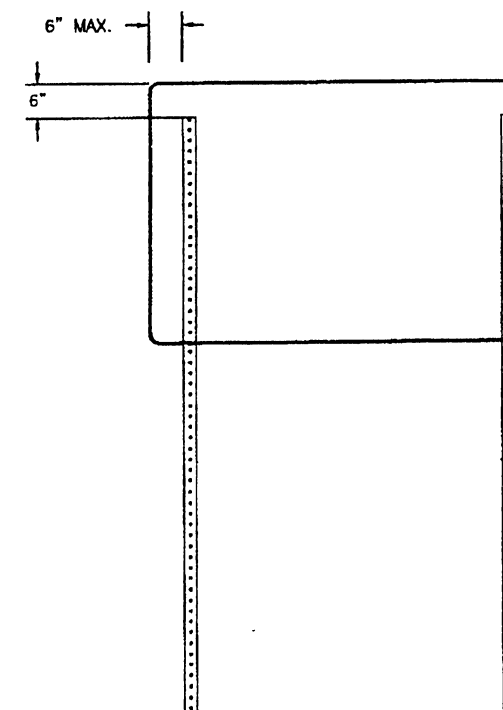
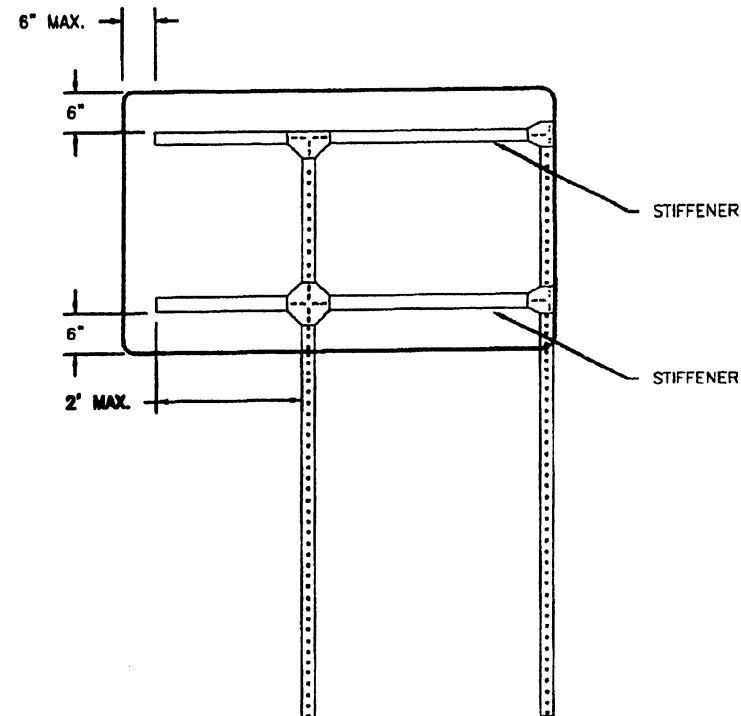
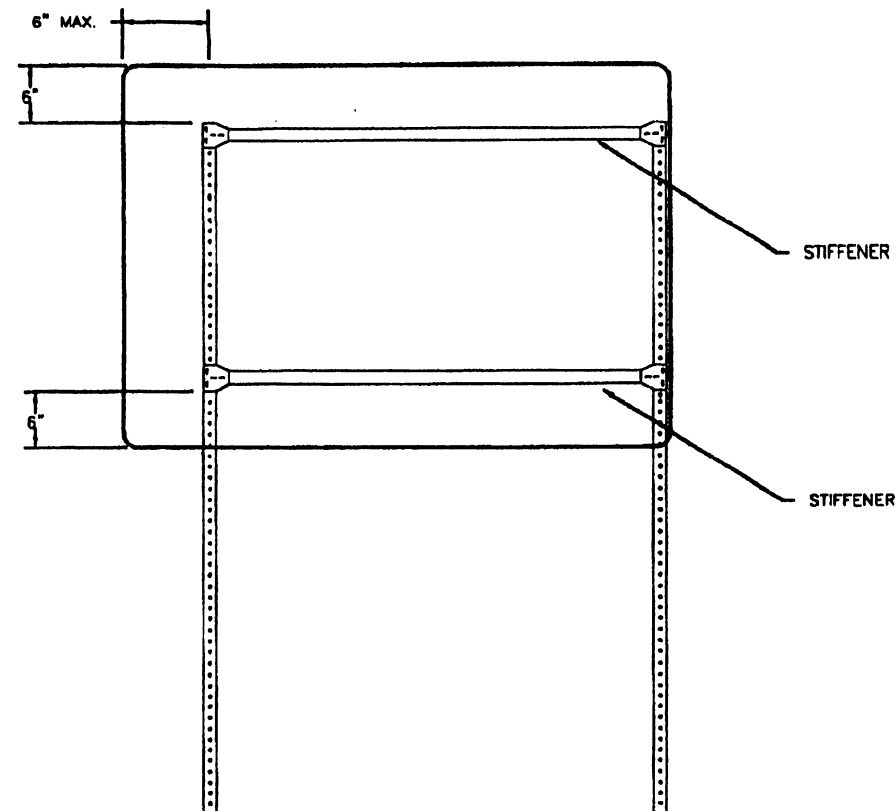
COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

SMALL TRAFFIC SIGNS
STEEL FLANGED CHANNEL
AND
SQUARE STEEL POST
MOUNTING ON SIDEWALK AREAS
WITHOUT PLANTING STRIP

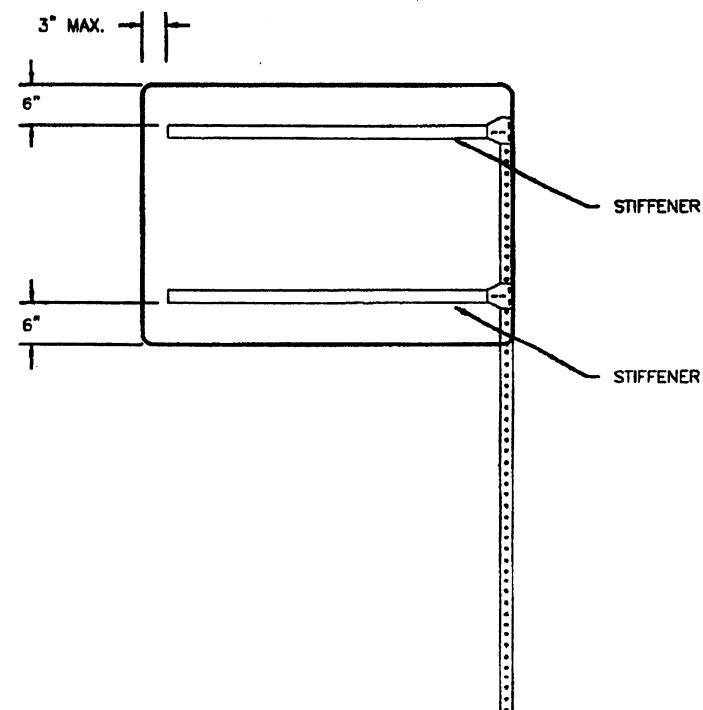
RECOMMENDED BY:
Roberto J. L.
DEPUTY EXEC. DIR. FOR
TRAFFIC AND TOLL ROADS
DATE: 11-V-00
APPROVED BY:
[Signature]
EXECUTIVE DIRECTOR
DATE: MAY-19-00

DATE	REVISION	BY
07-1999	ADD NOTE	I.V.
10-1999	GENERAL REVISION	I.V.
03-2000	REVISED NOTES	I.V.

STD. DWG. 12 OF 25



TYPICAL POST LOCATION FOR H SUPPORT MOUNTING

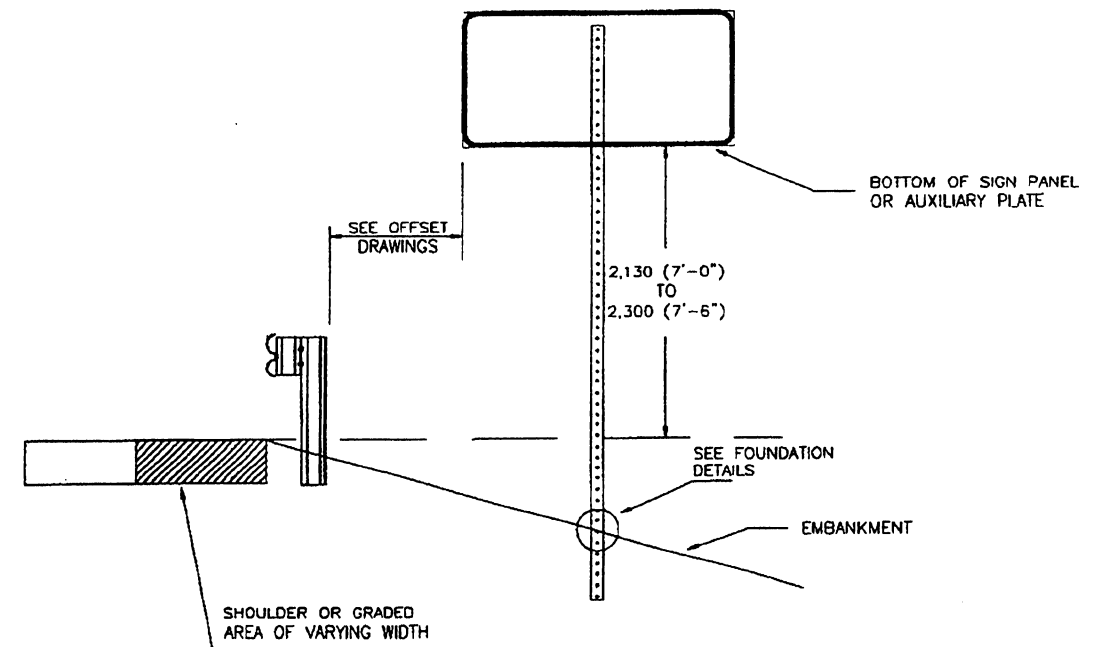
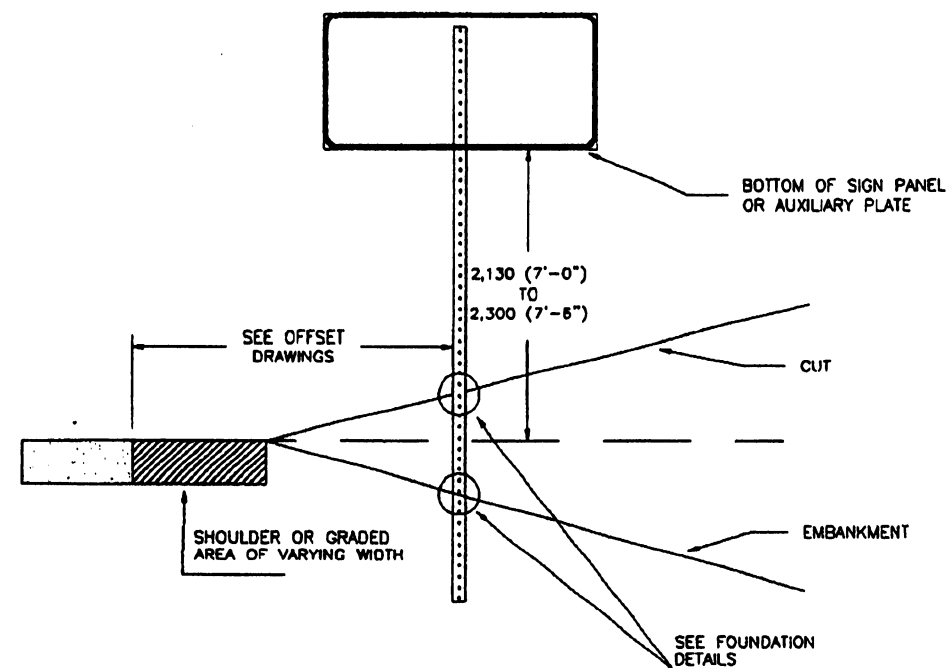


TYPICAL POST LOCATION FOR CANTILEVER SUPPORT MOUNTING

GENERAL NOTES:

1. TO DETERMINE THE APPLICATION FOR CANTILEVER OR SUPPORT MOUNTING SEE MOUNTING ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP STANDARD DRAWINGS.

EFFECTIVE DATE: DECEMBER 1999		
COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS STEEL FLANGED CHANNEL AND SQUARE STEEL POST TYPICAL POST LOCATION FOR MOUNTING ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP		RECOMMENDED BY: <i>[Signature]</i> DEPUTY EXC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 12-1-99
APPROVED BY: <i>[Signature]</i> EXECUTIVE DIRECTOR DATE: 3-27-99		APPROVED BY: <i>[Signature]</i> DIV. ADM. FHWA-PR DIVISION DATE: 11-8-99
DATE	REVISION	BY
STD.	STS	
DWG.	12A	OF 25



GENERAL NOTES:

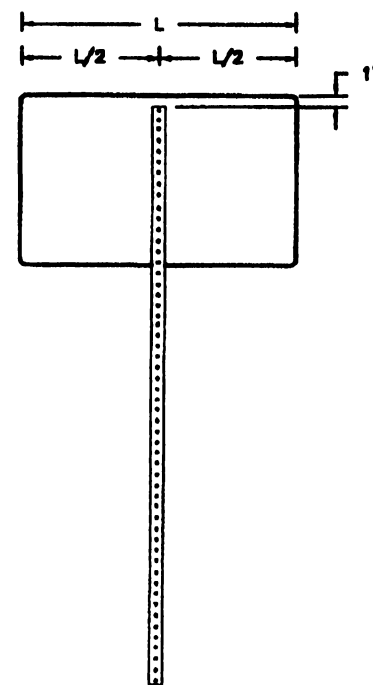
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCREASING OR DECREASING THE LENGTH OF POST TO ACHIEVE THE MOUNTING HEIGHT ABOVE FINISH GRADE OF THE NEAREST LANE.
2. THE CONTRACTOR MAY USE STEEL FLANGED CHANNEL POST OR SQUARE STEEL POST.
3. FOUNDATION SHALL BE AS STEEL FLANGED CHANNEL AND SQUARE STEEL POST FOUNDATION DETAILS STANDARD DRAWINGS.
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENER CONNECTION.
5. ALL TOP POSTS AND BASE POSTS SHALL BE CONTINUOUS IN LENGTH.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE NUMBER OF POSTS BASED UPON THE SIGN PANEL AREA, IN CONFORMANCE WITH THE FOLLOWING TABULATION:

NUMBER OF POSTS	MAXIMUM SIGN AREA (SQUARE FEET)	MAXIMUM SIGN AREA (SQUARE METER)
1	4	0.37
2	16	1.50
3	25	2.32
4	36	3.35

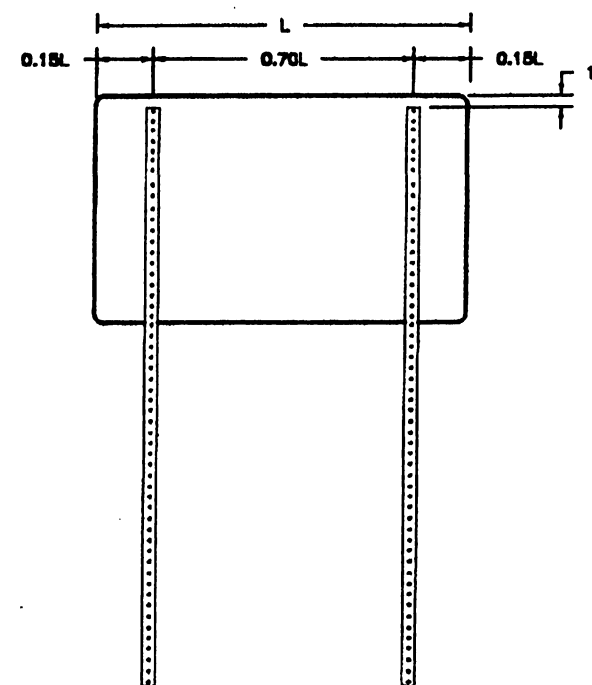
7. THE CONTRACTOR SHALL LOCATE POSTS AS PER TYPICAL POST LOCATION STANDARD DRAWING.
8. VERTICAL CLEARANCE TO BOTTOM OF LOWEST SIGN PANEL SHALL BE 2,130 (7'-0") TO 2,300 (7'-6") FROM THE FINISH GRADE OF THE NEAREST LANE.

EFFECTIVE DATE: OCTOBER 2000

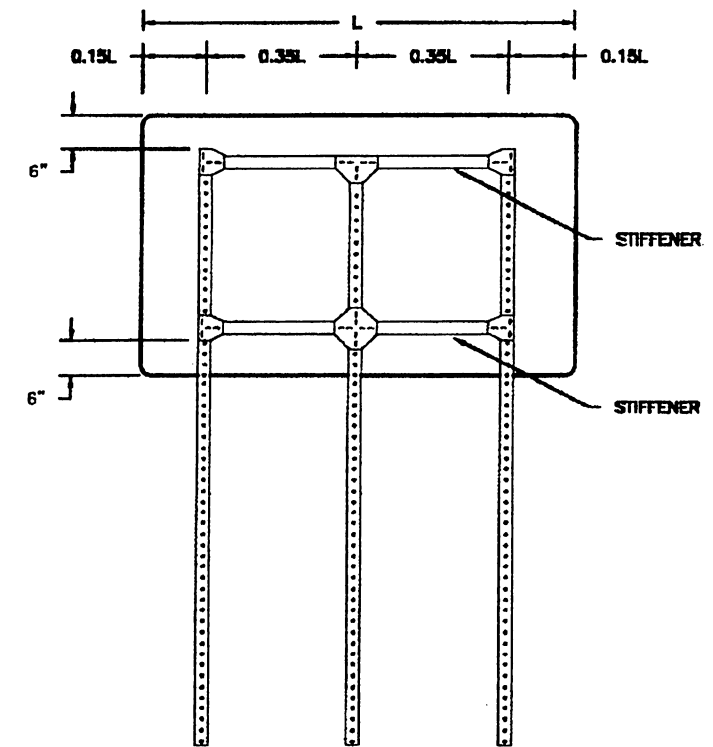
COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS STEEL FLANGED CHANNEL AND SQUARE STEEL POST RURAL MOUNTING OR MOUNTING ON GRASS AREA		RECOMMENDED BY: DEPUTY EXEC. DIR. FOR TRAFFIC AND TOLL ROADS DATE : APPROVED BY: EXECUTIVE DIRECTOR DATE : 2/11/00
DATE	REVISION	BY
4-1999	REVISION NOTE 2	I.V.
6-1999	ADD NOTE 9	I.V.
07-2000	REVISED NOTES 8 AND 7 AND ADDED NOTE 5	I.V.
STD. DWG.	13 OF 25	STS



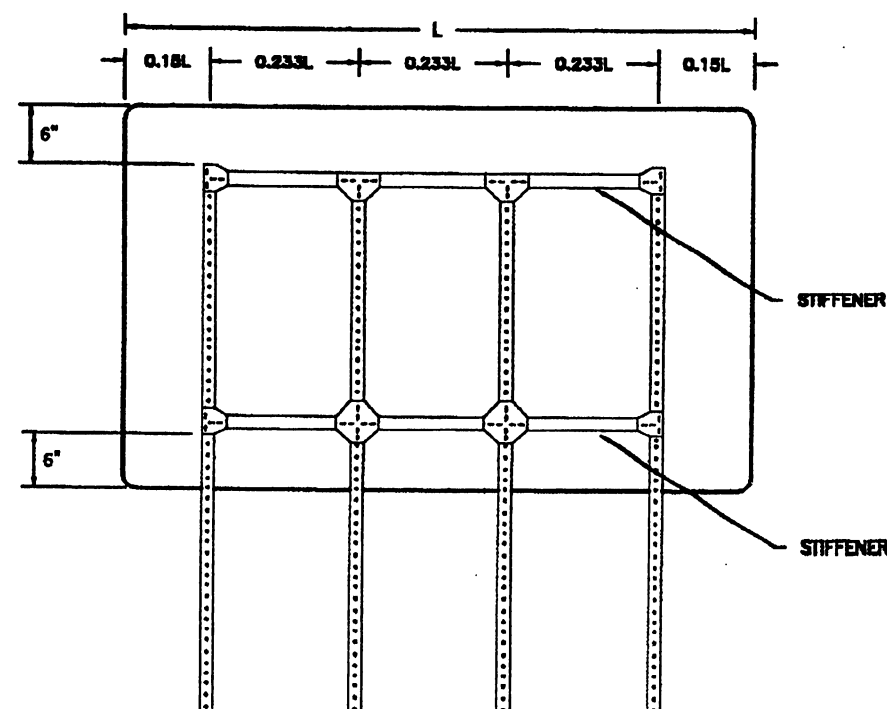
1 POST



2 POSTS



3 POSTS

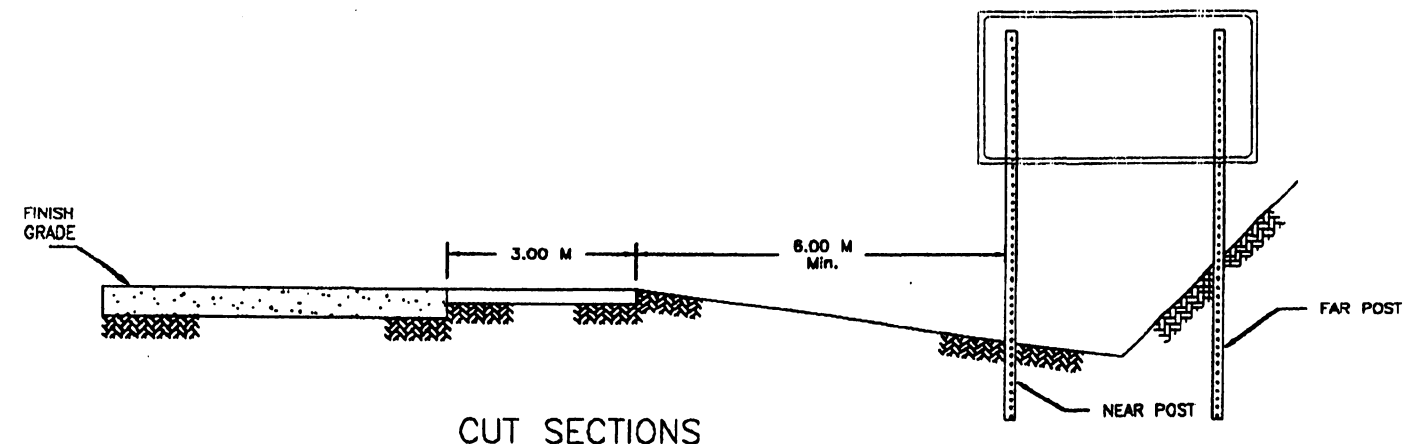


4 POSTS

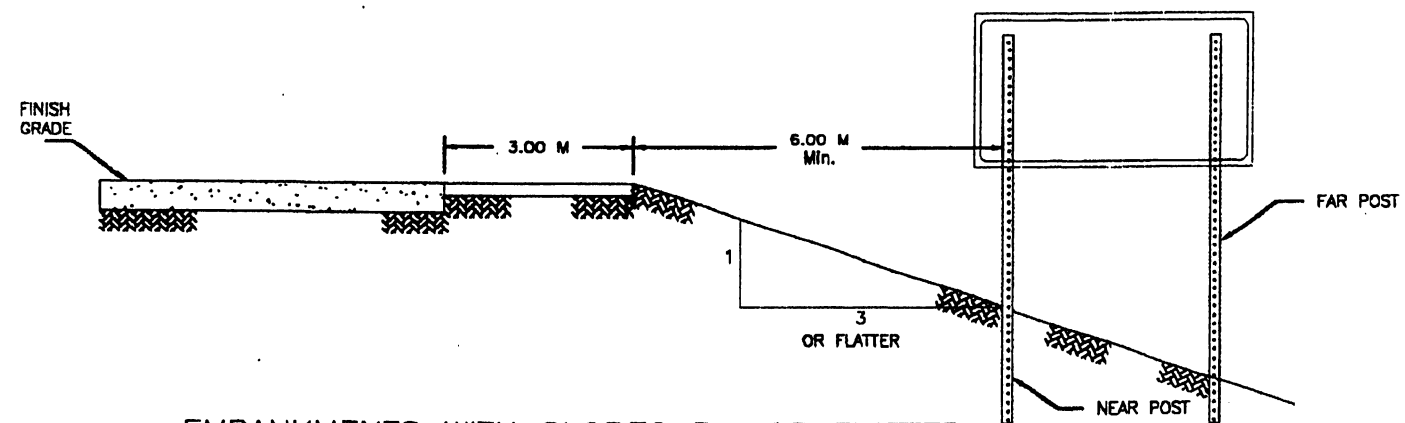
NOTE:

1. TO DETERMINE THE NUMBER OF POSTS, SEE NOTES ON STEEL FLANGED CHANNEL AND SQUARE STEEL POST, RURAL MOUNTING STANDARD DRAWINGS.
2. STIFFENERS SHALL BE SQUARE POST, STEEL FLANGED CHANNEL OR ALTERNATE STIFFENER.
3. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION.
4. MAXIMUM DEVIATION FROM VERTICAL FOR ANY COMPONENT, IN ANY DIRECTION, SHALL BE 1/8 INCH PER FOOT.
5. MAXIMUM DEVIATION FROM HORIZONTAL FOR ANY COMPONENT, IN ANY DIRECTION, SHALL BE 1/8 INCH PER FOOT.

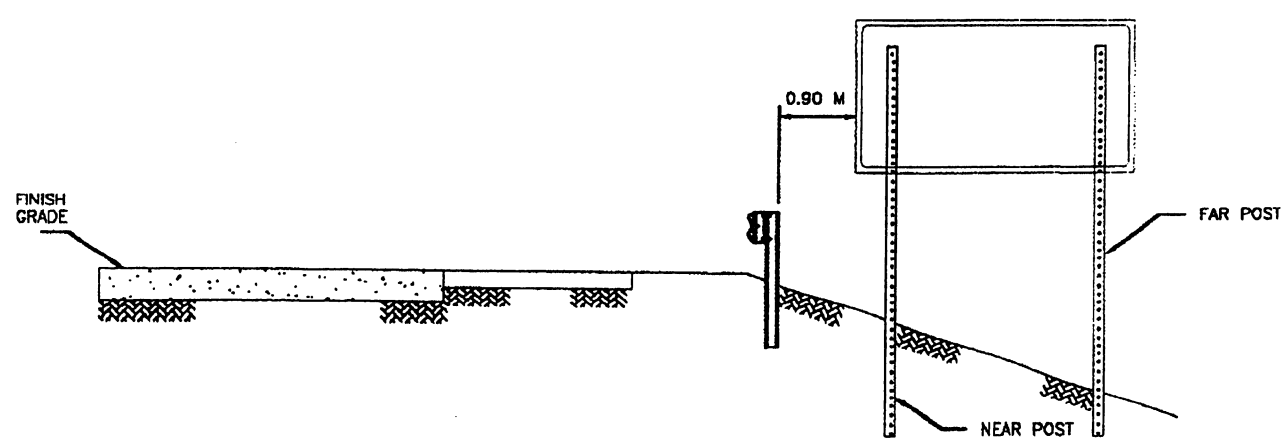
EFFECTIVE DATE: DECEMBER 1999		
COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS STEEL FLANGED CHANNEL AND SQUARE STEEL POST TYPICAL POST LOCATION FOR RURAL MOUNTING		RECOMMENDED BY: <i>[Signature]</i>
		DETERM. EXC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: <i>8-1-99</i>
		APPROVED BY: <i>[Signature]</i>
		EXECUTIVE DIRECTOR DATE: <i>8-1-99</i>
		APPROVED BY: <i>[Signature]</i>
		ADM. FILED - DIVISION DATE: <i>11-8-99</i>
DATE 10-1999	REVISION GENERAL REVISION	BY I.V.
		STD. DWG. 13A OF 25



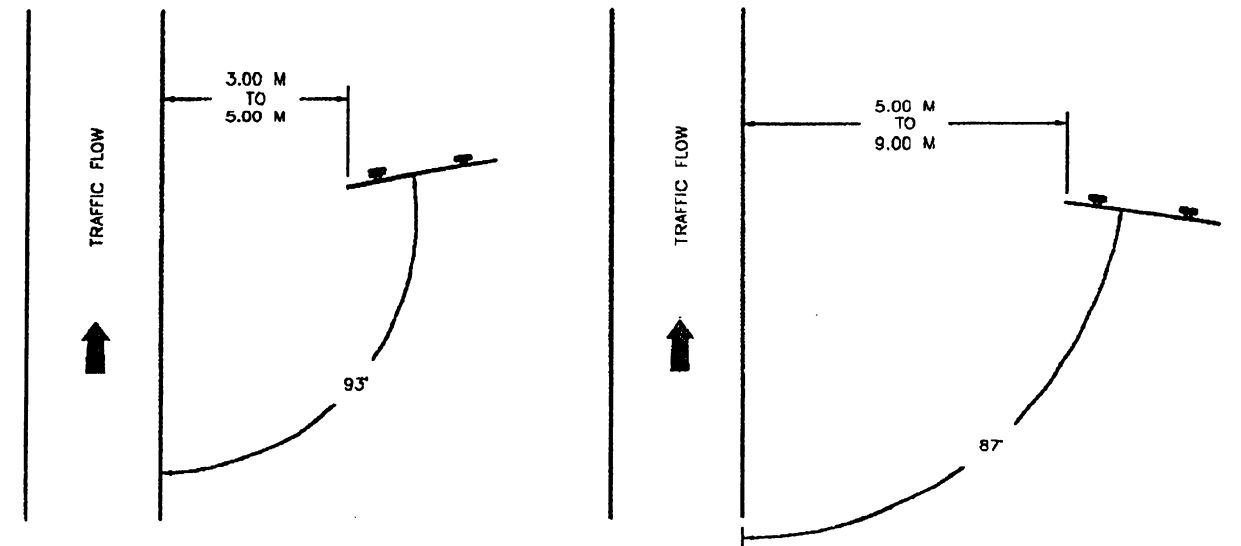
CUT SECTIONS



EMBANKMENTS WITH SLOPES 3:1 OR FLATTER



SECTION WITH GUARD RAIL

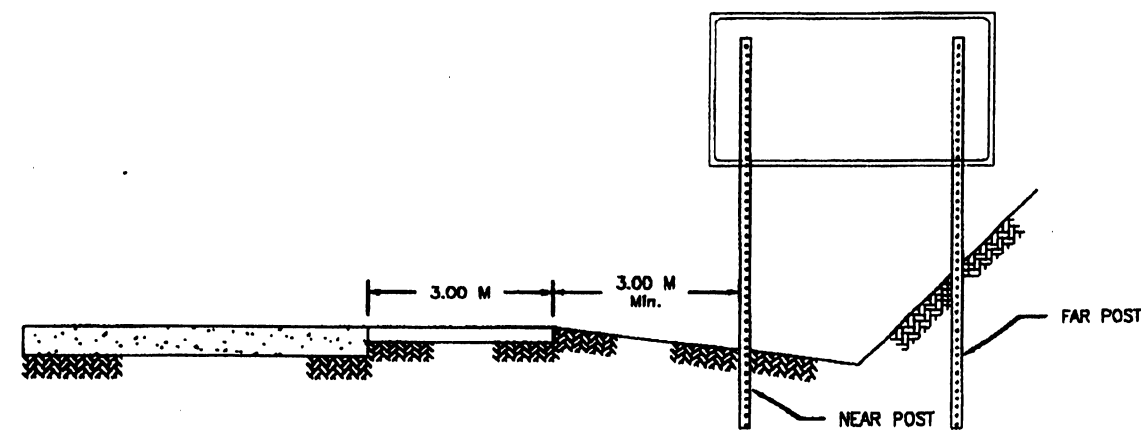


ORIENTATION OF SIGNS

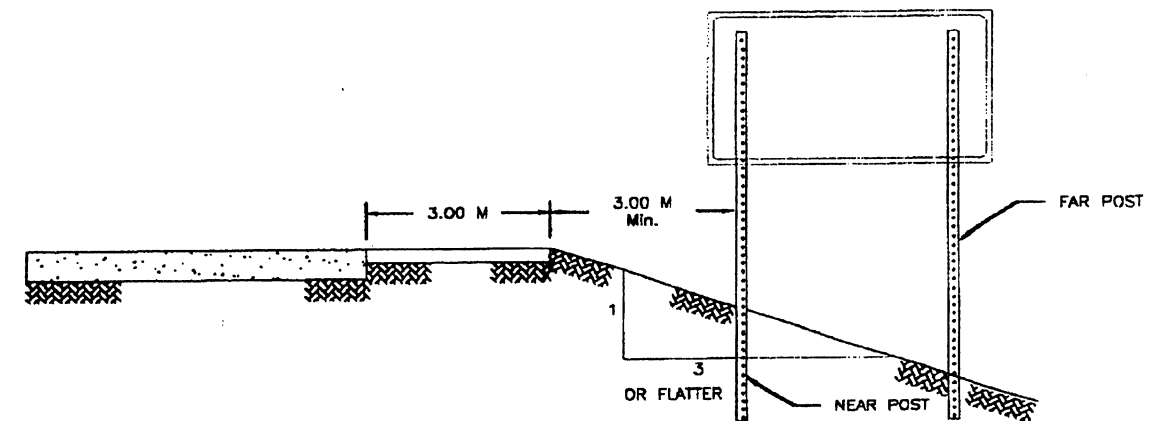
GENERAL NOTES:

1. FOR ORIENTATION OF SIGNS SEE ORIENTATION DETAILS.
2. OFFSET APPLIES TO NEAR POST OR TO SINGLE POST WHEN SIGN HAS ONLY ONE POST. FOR SECTION WITH GUARD RAIL, THE OFFSET APPLIES TO THE BORDER OF SIGN PANEL.
3. POST SHOWN ARE FOR ILLUSTRATIVE PURPOSE ONLY. NUMBER OF POSTS SHALL BE AS SHOWN ON "RURAL MOUNTING OR MOUNTING ON GRASS AREA" STANDARD DRAWING.

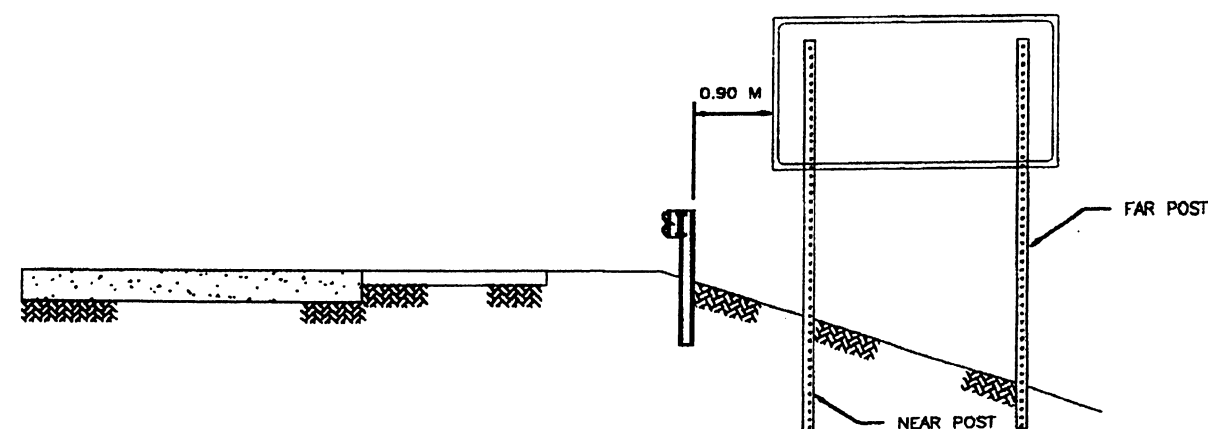
EFFECTIVE DATE: DECEMBER 1999		
COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS OFFSET DRAWINGS AUTOPISTA AND OTHER HIGHWAYS WITH 9 METER CLEAR ZONE		RECOMMENDED BY: DEPUTY EXC. DIR. FOR TRAFFIC AND TOL. ROADS DATE: 11-8-99 APPROVED BY: EXECUTIVE DIRECTOR DATE: 11-8-99 APPROVED BY: DIV. ADM. ENGR. DIVISION DATE: 11-8-99
DATE	REVISION	BY
04-1999	NOTES REVISION	I.V.
10-1999	GENERAL REVISION	I.V.
STD. DWG.	STS 14 OF 25	



CUT SECTIONS



EMBANKMENTS WITH SLOPES 3:1 OR FLATTER



SECTION WITH GUARD RAIL

GENERAL NOTES:

1. FOR ORIENTATION OF SIGNS SEE ORIENTATION DETAILS.
2. OFFSET APPLIES TO NEAR POST OR TO SINGLE POST WHEN SIGN HAS ONLY ONE POST. FOR SECTION WITH GUARD RAIL, THE OFFSET APPLIES TO THE BORDER OF SIGN PANEL.
3. POST SHOWN ARE FOR ILLUSTRATIVE PURPOSE ONLY. NUMBER OF POSTS SHALL BE AS SHOWN ON "RURAL MOUNTING OR MOUNTING ON GRASS AREA" STANDARD DRAWING.

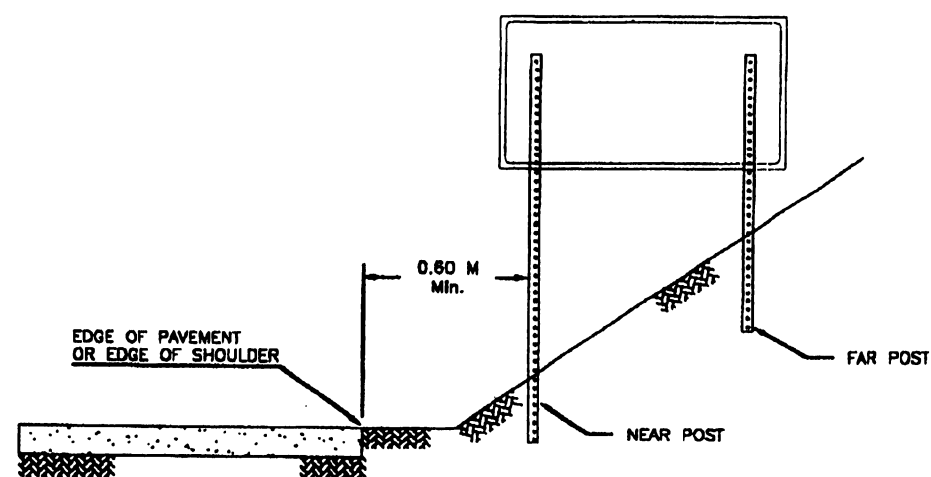
EFFECTIVE DATE: DECEMBER 1999

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

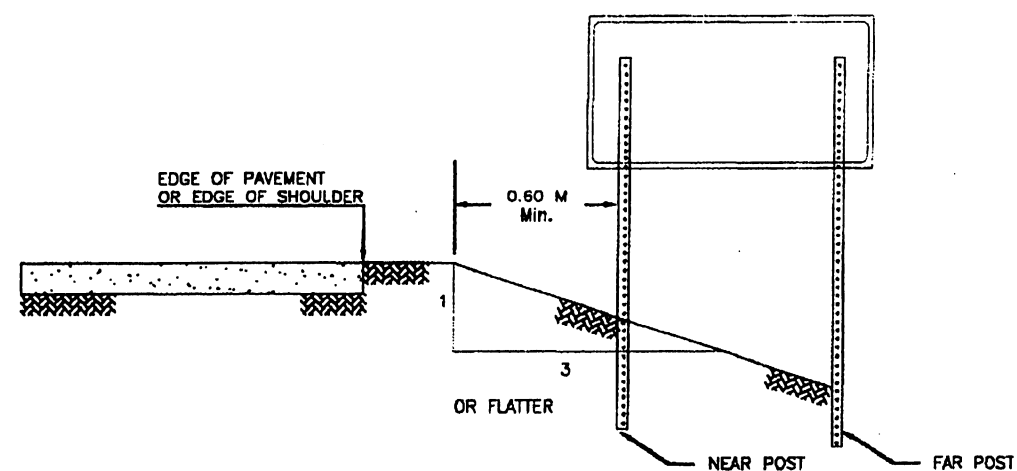
**SMALL TRAFFIC SIGNS
OFFSET DRAWINGS**
HIGHWAYS WITH INTERMEDIATE
CLEAR ZONE

RECOMMENDED BY:
DEPUTY EXC. DIR. FOR
TRAFFIC AND TOLL ROADS
DATE: 8-8-99
APPROVED BY:
EXECUTIVE DIRECTOR
DATE: 7-29-99
APPROVED BY:
EDDIE RIVERA
ADM. ADM. FHWA-PR DIVISION
DATE: 11-8-99

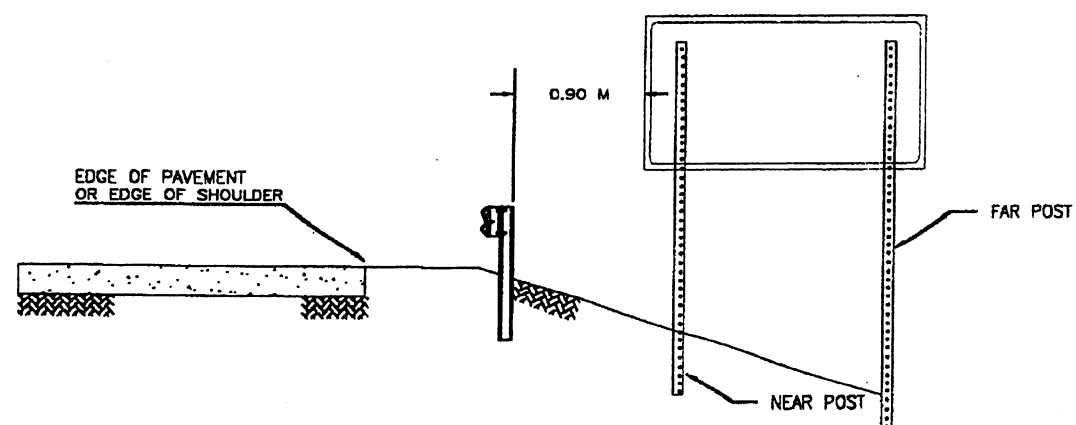
DATE	REVISION	BY	STD.	STS
04-1999	NOTES REVISION	I.V.	DWG.	15 OF 25
10-1999	GENERAL REVISION	I.V.		



CUT SECTIONS



EMBANKMENTS WITH SLOPES 3:1 OR FLATTER



SECTION WITH GUARD RAIL

GENERAL NOTES:

1. FOR ORIENTATION OF SIGNS SEE ORIENTATION DETAILS.
2. OFFSET APPLIES TO NEAR POST OR TO SINGLE POST WHEN SIGN HAS ONLY ONE POST. FOR SECTION WITH GUARD RAIL, THE OFFSET APPLIES TO THE BORDER OF SIGN PANEL.
3. POST SHOWN ARE FOR ILLUSTRATIVE PURPOSE ONLY. NUMBER OF POSTS SHALL BE AS SHOWN ON "RURAL MOUNTING OR MOUNTING ON GRASS AREA" STANDARD DRAWING.

EFFECTIVE DATE: DECEMBER 1999

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

**SMALL TRAFFIC SIGNS
OFFSET DRAWINGS
HIGHWAYS WITH MINIMUM RIGHT
OF WAY AND CROSS SECTION**

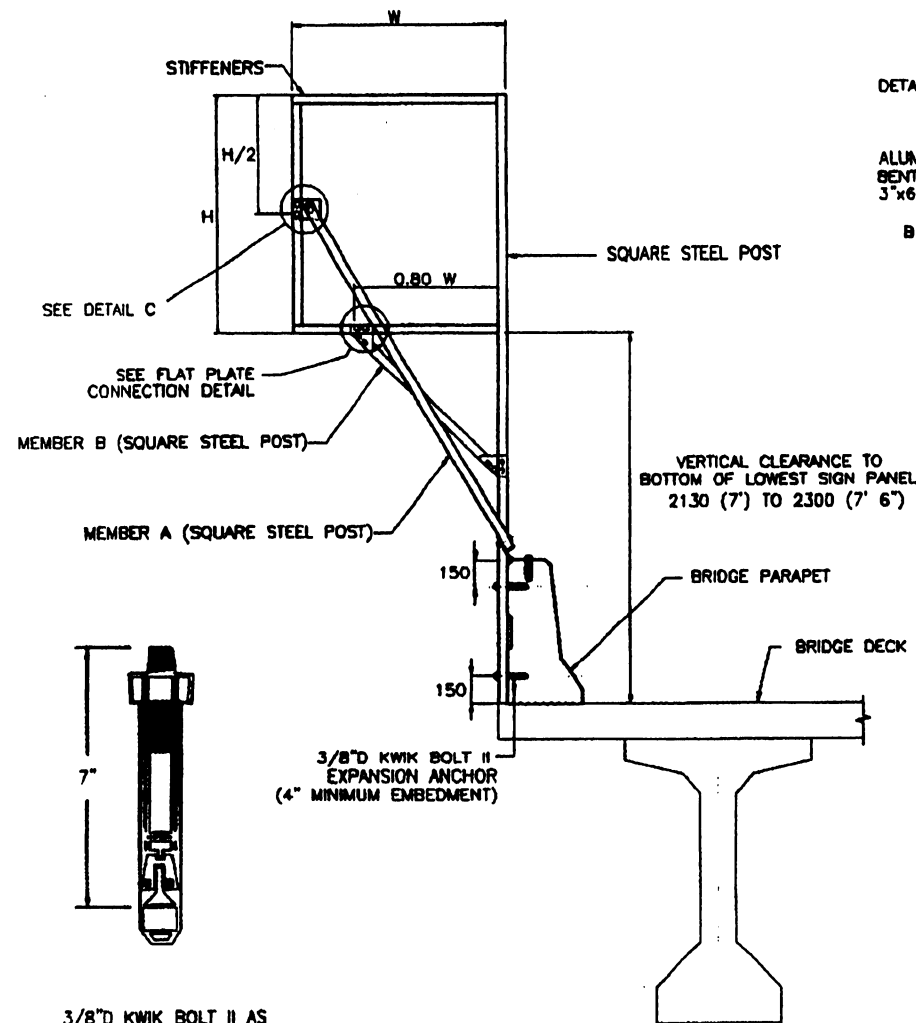
RECOMMENDED BY:
DEPUTY EXEC. DIR. FOR
TRAFFIC AND TOLL ROADS
DATE: 10-10-99

APPROVED BY:
EXECUTIVE DIRECTOR
DATE: 12-1-99

APPROVED BY:
DIV. ADM. FHWA-PR DIVISION
DATE: 11-8-99

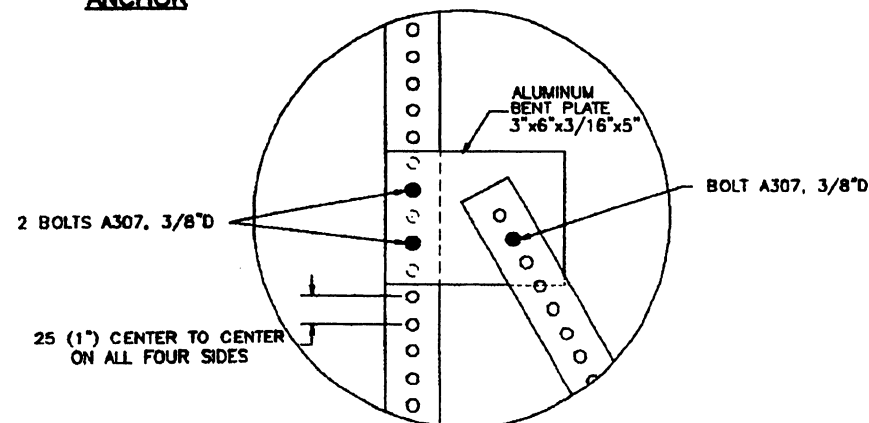
DATE	REVISION	BY
4-1999	NOTES REVISION	L.V.
10-1999	GENERAL REVISION	L.V.

STD. DWG. 16 OF 25



3/8" D Kwik Bolt II AS MANUFACTURED BY HILTI

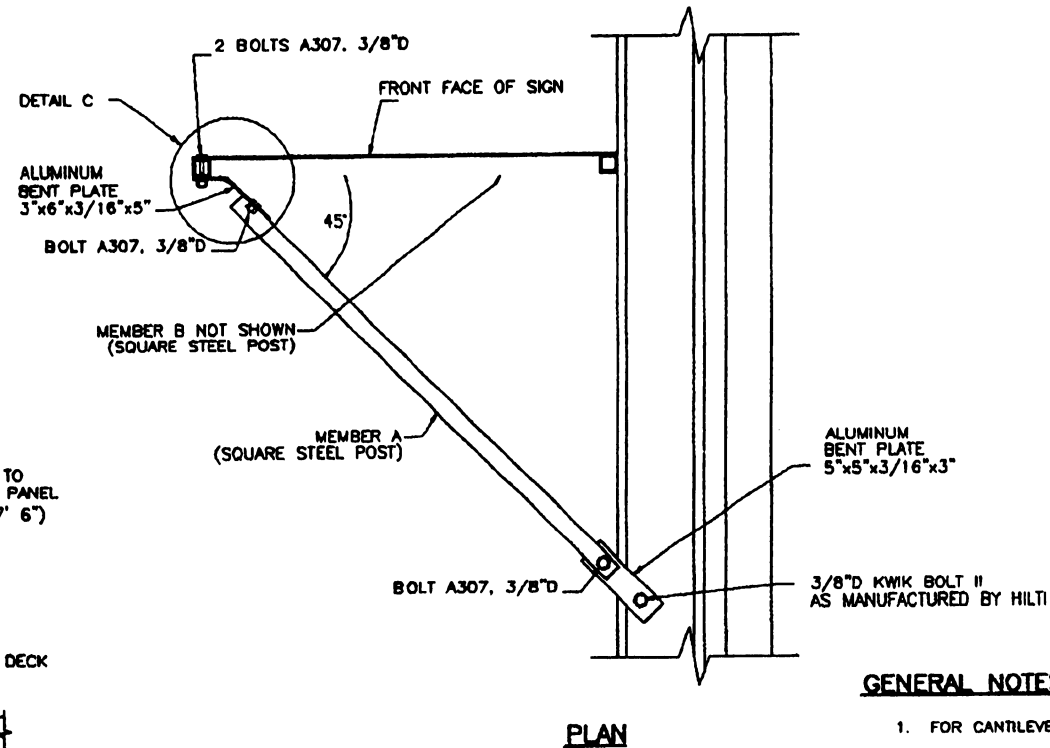
ANCHOR



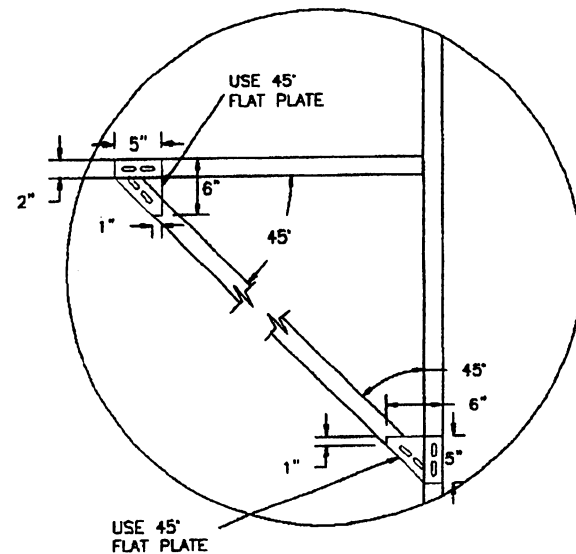
DETAIL C

CANTILEVER SUPPORT MOUNTING

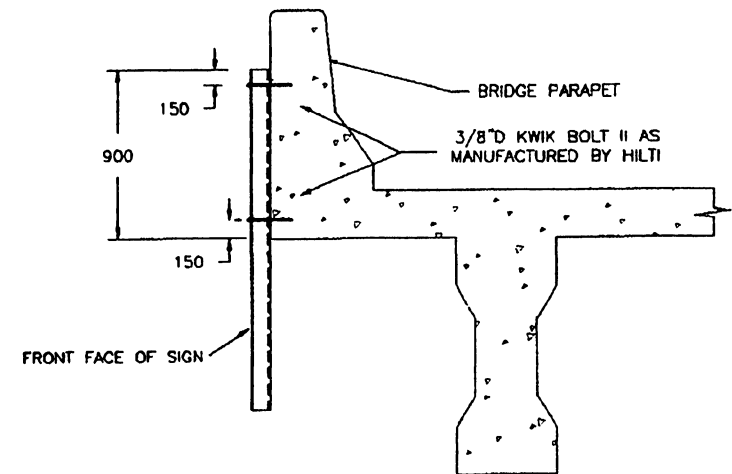
1. FOR SIGN PANELS WITH A SIGN PANEL AREA EQUAL OR LESS THAN 18 SQUARE FEET AND WIDTH EQUAL OR LESS THAN 1,200 (48").
2. FOR OCTAGONAL, DIAMOND, TOURISTIC AND CIRCULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").



PLAN



FLAT PLATE CONNECTION DETAIL



OVERHEAD MOUNTING

USE ONE STEEL FLANGED CHANNEL POST OR ONE SQUARE STEEL POST FOR SIGNS W12-2 600 (2') X 600 (2'), 750 (2'-6") X 750 (2'-6"), AND 900 (3') X 900 (3').

USE TWO STEEL FLANGED CHANNEL POST OR TWO SQUARE STEEL POST FOR SIGNS W12-2 1200 (4') X 1200 (4') AND 1500 (5') X 1500 (5') OR GREATER, OR ANY OTHER SIGNS INDICATED IN THE CONSTRUCTION PLANS.

GENERAL NOTES:

1. FOR CANTILEVER SUPPORT MOUNTING ONLY SQUARE STEEL POST SHALL BE USED.
2. CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS WHO WISH TO INCLUDE THEIR PRODUCTS INTO THE APPROVED LISTING OF ANCHORS MUST SUBMIT THE FOLLOWING INFORMATION FOR CONSIDERATION BY THE AUTHORITY: FULL DESCRIPTION AND DRAWINGS OF THE ANCHOR INCLUDING DIMENSION OF ALL COMPONENTS AND COMPLETE MATERIAL DESCRIPTION, GALVANIZING AND OTHER PERTINENT INFORMATION.
3. KWIK BOLT SHALL BE ZINC PLATED IN ACCORDANCE WITH ASTM B633, TYPE III FE/ZN 5.
4. THE CONTRACTOR SHALL FOLLOW HILTI INSTRUCTIONS FOR 3/8" KWIK BOLT II INSTALLATION.
5. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION AS A SUBSIDIARY OBLIGATION.
6. ALL POSTS SHALL BE CONTINUOUS IN LENGTH.
7. FOR OVERHEAD MOUNTING, THE SIGN SHALL BE INSTALLED WITHOUT REDUCTION IN THE EXISTING BRIDGE CLEARANCE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST THE LENGTH OF STIFFENERS ACCORDING TO THE PANEL SHAPE.
9. THE CONTRACTOR SHALL USE THREE VANDAL RESISTANT FASTENERS TO ATTACH THE SIGN PANEL TO EACH STIFFENER. THE FASTENERS SHALL BE LOCATED ONE IN EACH EXTREME AND ONE IN THE CENTER OF STIFFENER.
10. THE CONTRACTOR SHALL ADJUST THE LENGTH OF BOLT TO PENETRATE THE ENTIRE THICKNESS OF THE NUT.
11. ALL ALUMINUM BENT PLATES SHALL CONFORM TO ASTM B-209, ALLOYS 5052 H-32, 5052 H-36, 5052 H-38, 5086 H-34, 5154 H-36 OR 6061 T-6.

EFFECTIVE DATE: JULY 2000

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

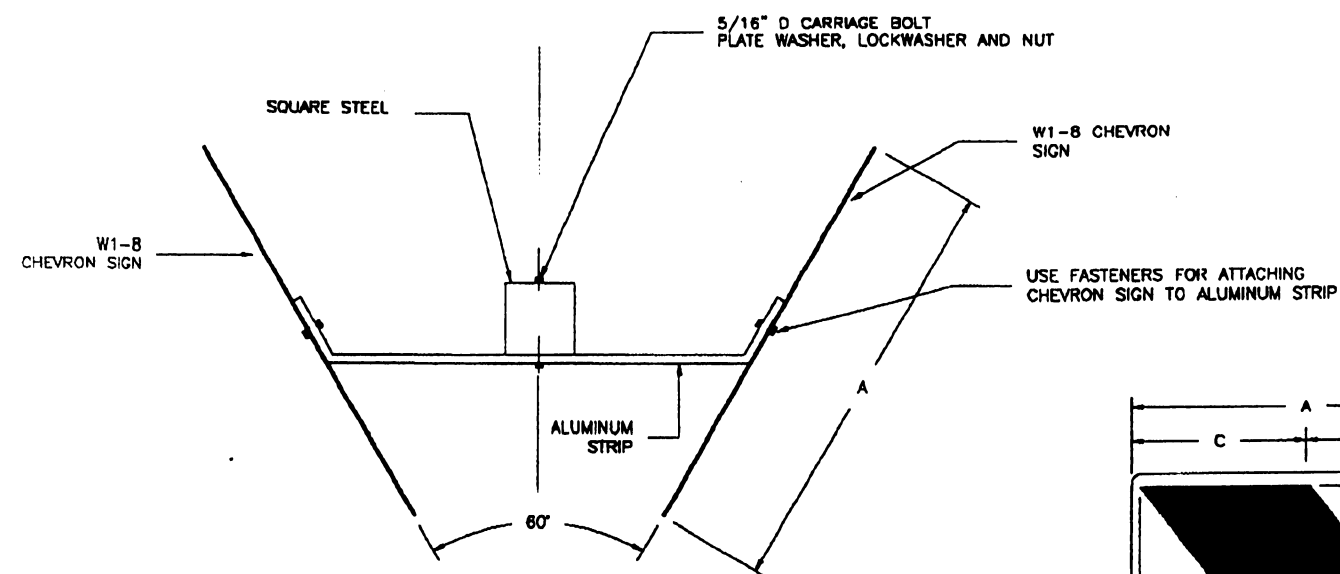
SMALL TRAFFIC SIGNS BRIDGE MOUNTING DETAIL

RECOMMENDED BY:
[Signature]
DEPUTY EXEC. DIR. FOR
TRAFFIC AND TOLL ROADS
DATE: 17-1-00

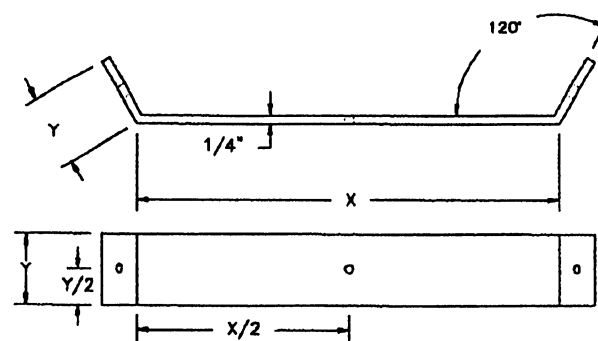
APPROVED BY:
[Signature]
EXECUTIVE DIRECTOR
DATE: MAY-19-00

DATE	REVISION	BY
8-1999	GENERAL REVISION	I.V.
03-2000	DELETED SINGLE AND CANTILEVER SUPPORT MOUNTING	I.V.

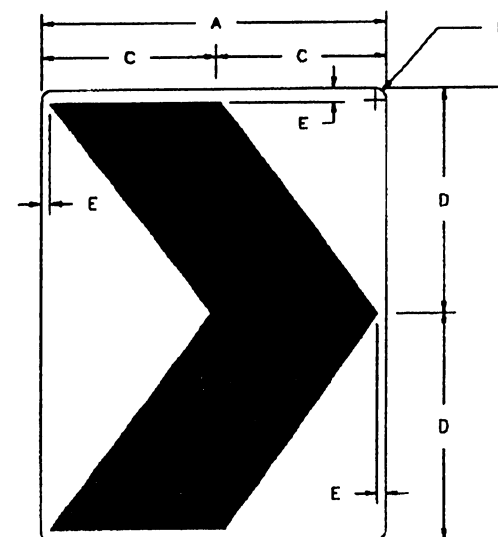
STD. DWG. 17 OF 25



PLAN VIEW



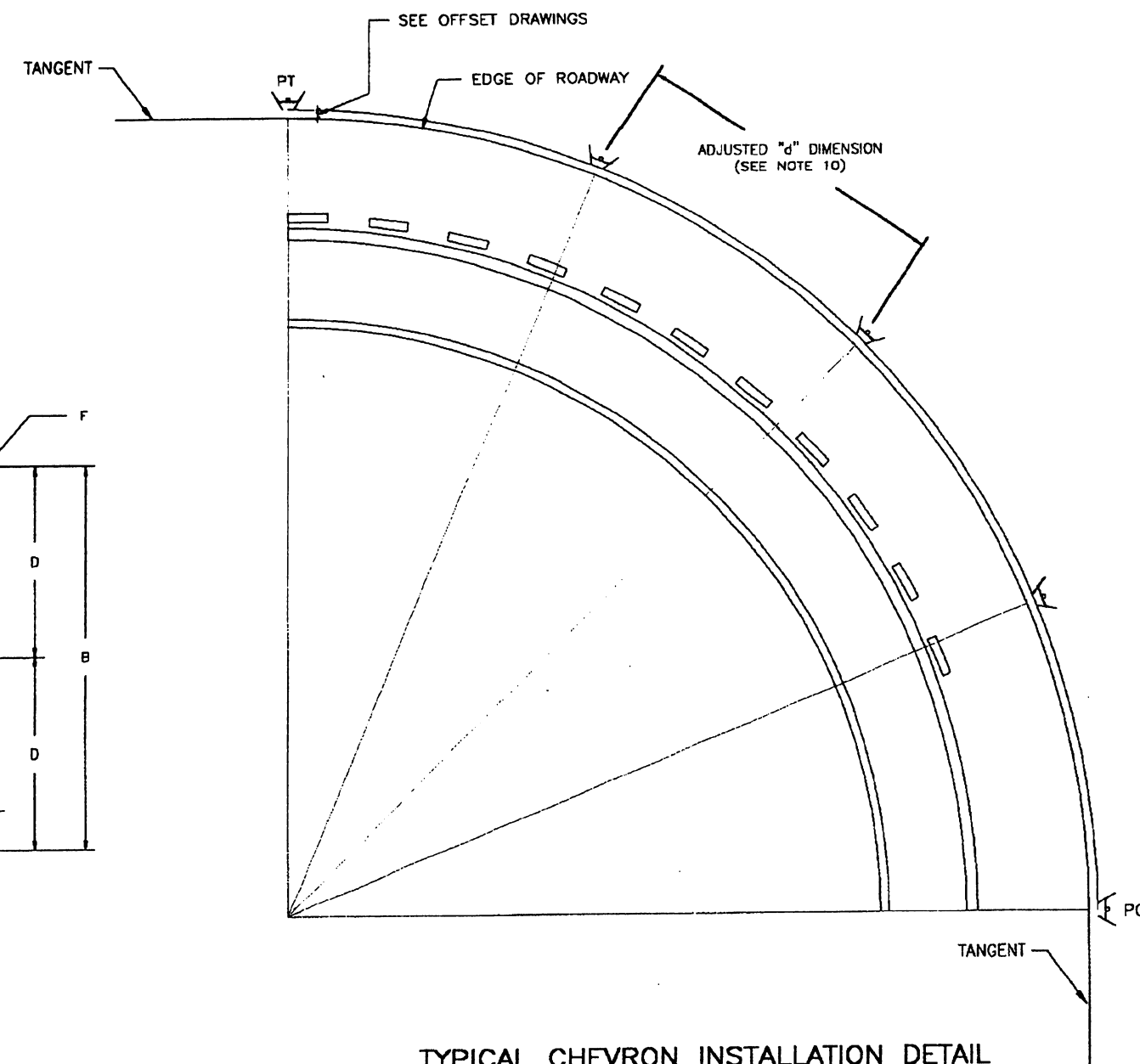
ALUMINUM STRIP DETAIL



W1-8
CHEVRON SIGN

COLORS

BACKGROUND : YELLOW (REFL.)
CHEVRON : BLACK (NON-REFL.)



TYPICAL CHEVRON INSTALLATION DETAIL

GENERAL NOTES :

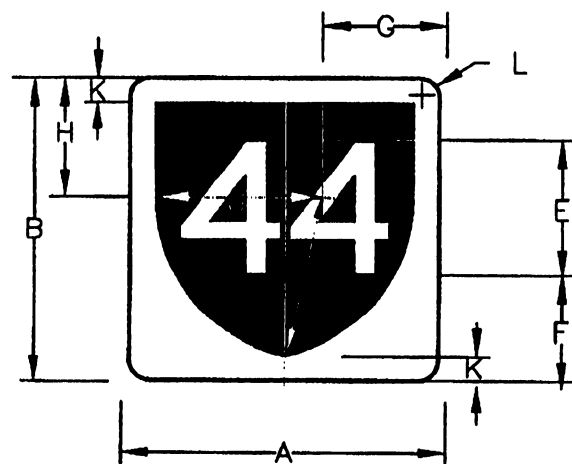
1. THE FOUNDATIONS SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST FOUNDATION DETAILS.
2. TOP POST TO BASE POST CONNECTION SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST CONNECTION DETAILS.
3. VERTICAL CLEARANCE TO BOTTOM OF LOWEST SIGN PANEL SHALL BE 7'-0" TO 7'-6" FROM FINISHED GRADE OF PAVEMENT.
4. ALL VERTICAL POSTS SHALL BE CONTINUOUS IN LENGTH.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCREASING OR DECREASING THE LENGTH OF POST TO ACHIEVE THE MOUNTING HEIGHT ABOVE PAVEMENT EDGE.
6. MAXIMUM DEVIATION FROM VERTICAL, FOR ANY COMPONENT, IN ANY DIRECTION SHALL BE 1/8" IN A FOOT.
7. MAXIMUM DEVIATION FROM HORIZONTAL, FOR ANY COMPONENT SHALL BE 1/8" IN A FOOT.
8. FASTENERS SHALL BE AS PER STS 5 OF 25.
9. ALUMINUM STRIP AND SIGN PLATES SHALL CONFORM TO ASTM B-209, ALLOYS 5052 H-32 H-36, 5052 H-38, 5086 H-34, 5154 H-36 OR 6061 T-6.
10. THE CONTRACTOR SHALL LOCATE THE FIRST AND LAST CHEVRON SIGN AT THE TANGENT AND CURVE (PC AND PT). USING THE LENGTH OF CURVE MEASURED ALONG THE OUTSIDE OF THE CURVE, THE CONTRACTOR SHALL ESTABLISH THE NUMBER OF CHEVRONS SIGNS NEEDED USING THE MAXIMUM SPACING INDICATED IN THE TABLE. THE CONTRACTOR SHALL LOCATE ALL CHEVRON SIGNS AT EQUAL SPACING ALONG THE OUTSIDE OF THE CURVE USING THE TABULATED SPACING VALUE OR LESS.
11. THE CONTRACTOR SHALL USE TWO ALUMINUM STRIP PER CHEVRON MOUNTING.

TABLE 1

V (MPH)	DIMENSIONS (inches)								MAX. d SPACING	
	A	B	C	D	E	F	X	Y	ft	M
$V \leq 35$	12	18	6	9	1/2	1 1/2	15	2	65	20
$35 < V \leq 40$	24	30	12	15	7/8	1 1/2	27	4	95	30
$40 < V \leq 50$	30	36	15	18	1	1 7/8	33	6	165	50
$V > 50$	36	48	18	24	1 1/8	2 1/4	39	8	165	50

EFFECTIVE DATE: JANUARY 2000

COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS CHEVRON MOUNTING DETAIL FOR TWO WAY ROADWAYS		RECOMMENDED BY: DEPUTY EXC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 12-20-99
		APPROVED BY: EXECUTIVE DIRECTOR DATE: 12-20-99
		APPROVED BY: DIV. ADM. FINANCIAL DIVISION DATE: 12-20-99
DATE 12-1999	REVISION GENERAL REVISION	BY I.Y.
STD. DWG.		STS 18 OF 25



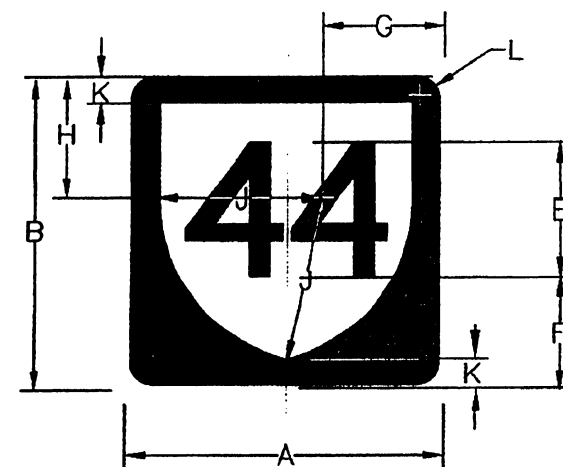
M1-6A

COLORS

SHIELD - BLUE (REFL)
BACKGROUND AND NUMERALS - WHITE (REFL)

SIGN	DIMENSIONS (INCHES)								
	A	B	E	F	G	H	J	K	L
1 DIGIT	24	24	12 D	7.12	9.27	9.57	12.5	2	1.5
2 DIGITS	24	24	10 D	8.58	9.27	9.57	12.5	2	1.5
3 DIGITS	24	24	8 C	9.88	9.27	9.57	12.5	2	1.5
1 DIGIT	36	36	18 D	10.68	13.9	14.3	18.75	3	2.25
2 DIGITS	36	36	15 D	12.87	13.9	14.3	18.75	3	2.25
3 DIGITS	36	36	12 C	14.82	13.9	14.3	18.75	3	2.25
1 DIGIT	48	48	24 D	14.24	18.54	19.14	25	4	3
2 DIGITS	48	48	20 D	17.16	18.54	19.14	25	4	3
3 DIGITS	48	48	16 C	19.76	18.54	19.14	25	4	3

OPTICALLY SPACE NUMERALS ABOUT
VERTICAL CENTER LINE



M1-6B

COLORS

SHIELD - WHITE (REFL)
BACKGROUND AND NUMERALS - BLACK (NON-REFL)

SIGN	DIMENSIONS (INCHES)								
	A	B	E	F	G	H	J	K	L
1 DIGIT	24	24	12 D	7.12	9.27	9.57	12.5	2	1.5
2 DIGITS	24	24	10 D	8.58	9.27	9.57	12.5	2	1.5
3 DIGITS	24	24	8 C	9.88	9.27	9.57	12.5	2	1.5
1 DIGIT	36	36	18 D	10.68	13.9	14.3	18.75	3	2.25
2 DIGITS	36	36	15 D	12.87	13.9	14.3	18.75	3	2.25
3 DIGITS	36	36	12 C	14.82	13.9	14.3	18.75	3	2.25
1 DIGIT	48	48	24 D	14.24	18.54	19.14	25	4	3
2 DIGITS	48	48	20 D	17.16	18.54	19.14	25	4	3
3 DIGITS	48	48	16 C	19.76	18.54	19.14	25	4	3

OPTICALLY SPACE NUMERALS ABOUT
VERTICAL CENTER LINE

EFFECTIVE DATE: DECEMBER 1998

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

SMALL TRAFFIC SIGNS
ROUTE MARKERS

RECOMMENDED BY:
ASST. EXC. DIR. FOR TRAFFIC
DATE: 12-21-98

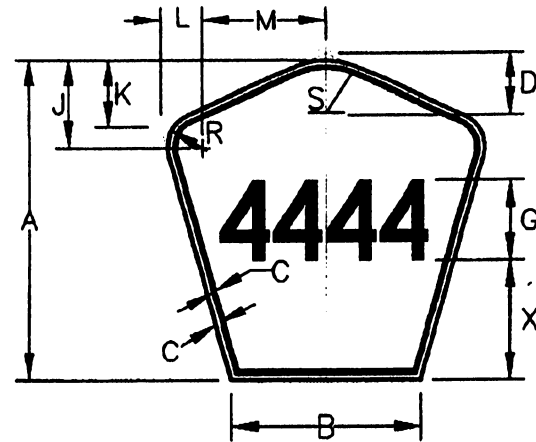
APPROVED BY:
EXECUTIVE DIRECTOR
DATE: 12-21-98

APPROVED BY:
SECRETARY
DATE: 1/1/99

APPROVED BY:
DIV. ADM. FHWA-PR DIVISION
DATE: 12-21-98

DATE	REVISION	BY

STD.
DWG. 19 OF 25

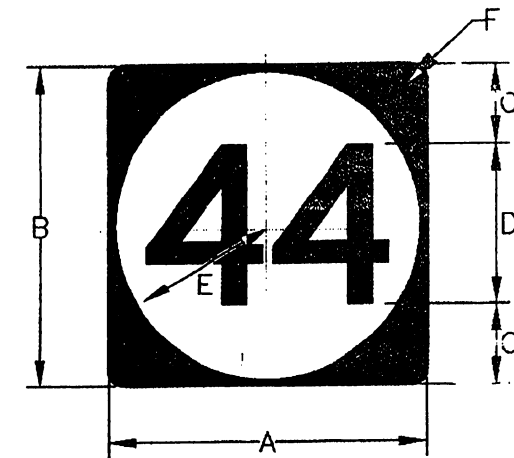


M1-6C

COLORS
NUMERALS AND BORDER - YELLOW (REFL.)
BACKGROUND - BLUE (REFL.)

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	G	X	J	K	L	M	R	S
1 DIGIT	24.00	14.19	0.38	5.00	14 D	5.00	6.63	5.13	3.13	9.31	2.69	5.00
2 DIGITS	24.00	14.19	0.38	5.00	10 D	8.00	6.63	5.13	3.13	9.31	2.69	5.00
3 DIGITS	24.00	14.19	0.38	5.00	10 B	8.00	6.63	5.13	3.13	9.31	2.69	5.00
4 DIGITS	24.00	14.19	0.38	5.00	8 B	9.00	6.63	5.13	3.13	9.31	2.69	5.00
1 DIGIT	36.00	21.29	0.57	7.50	21 D	7.50	9.95	7.70	4.70	13.97	4.04	7.50
2 DIGITS	36.00	21.29	0.57	7.50	15 D	12.00	9.95	7.70	4.70	13.97	4.04	7.50
3 DIGITS	36.00	21.29	0.57	7.50	15 B	12.00	9.95	7.70	4.70	13.97	4.04	7.50
4 DIGITS	36.00	21.29	0.57	7.50	12 B	13.50	9.95	7.70	4.70	13.97	4.04	7.50
1 DIGIT	48.00	28.38	0.76	10.00	28 D	10.00	13.26	10.26	6.26	18.62	5.38	10.00
2 DIGITS	48.00	28.38	0.76	10.00	20 D	16.00	13.26	10.26	6.26	18.62	5.38	10.00
3 DIGITS	48.00	28.38	0.76	10.00	20 B	16.00	13.26	10.26	6.26	18.62	5.38	10.00
4 DIGITS	48.00	28.38	0.76	10.00	16 B	18.00	13.26	10.26	6.26	18.62	5.38	10.00

OPTICALLY SPACE NUMERALS ABOUT
VERTICAL CENTER LINE



M1-6D

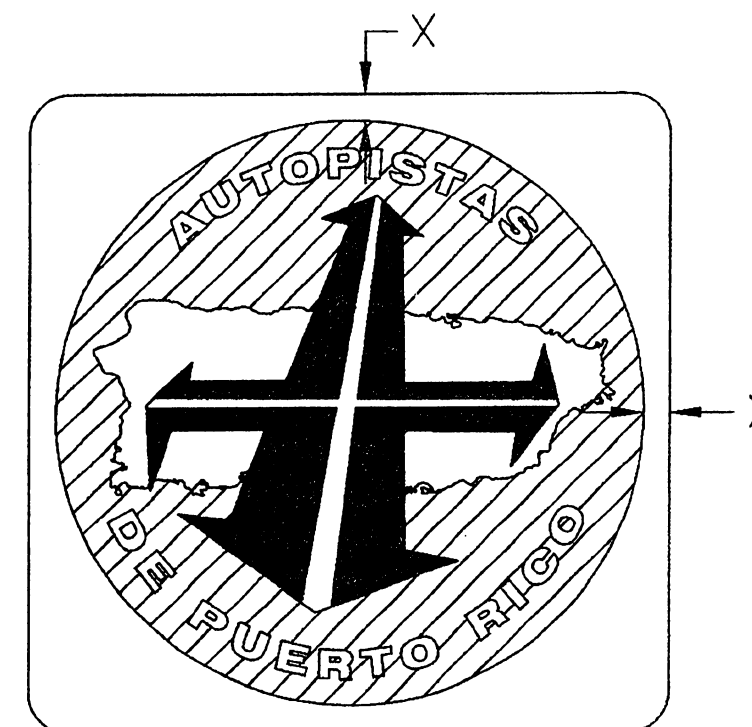
COLORS
LEGEND - BLACK (NON REFL.)
BACKGROUND - WHITE (REFL.)

SIGN	DIMENSIONS (INCHES)					
	A	B	C	D	E	F
1 DIGIT	24	24	6	12 D	11	1.25
2 DIGITS	24	24	6	12 D	11	1.25
3 DIGITS	24	24	8	8 D	11	1.25
4 DIGITS	24	24	9	6 D	11	1.25
1 DIGIT	36	36	9	18 D	16.25	2.25
2 DIGITS	36	36	9	18 D	16.25	2.25
3 DIGITS	36	36	12	12 D	16.25	2.25
4 DIGITS	36	36	13.5	9 D	16.25	2.25
1 DIGIT	48	48	12	24 D	22	3
2 DIGITS	48	48	12	24 D	22	3
3 DIGITS	48	48	16	16 D	22	3
4 DIGITS	48	48	18	12 D	22	3




OPTICALLY SPACE NUMERALS ABOUT
VERTICAL CENTER LINE

EFFECTIVE DATE: DECEMBER 1998

COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY				
SMALL TRAFFIC SIGNS ROUTE MARKERS		RECOMMENDED BY: <i>[Signature]</i> ASST. EXC. DIR. FOR TRAFFIC DATE: 12-26-98		
		APPROVED BY: <i>[Signature]</i> EXECUTIVE DIRECTOR DATE: 12-26-98		
		APPROVED BY: <i>[Signature]</i> SECRETARY DATE: 4/5/99		
		APPROVED BY: <i>[Signature]</i> DIV. ADM. FHWA-PR DIVISION DATE: 12-26-98		
DATE	REVISION	BY	STD.	STS
			DWG.	19A OF 25



M1-6E

	WHITE (REFL.)
	BLUE (REFL.)
	YELLOW (REFL.)

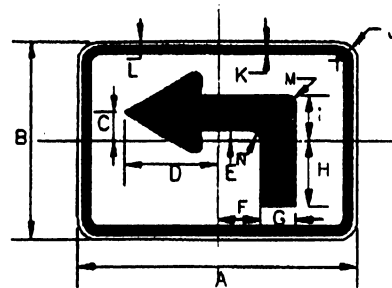
SIGN	X
24" X 24"	1"
36" X 36"	1.50"
48" X 48"	2"

NOTE:

1. FOR SIGN PLATE DETAILS SEE
BLANK PLATE STANDARD DRAWINGS.

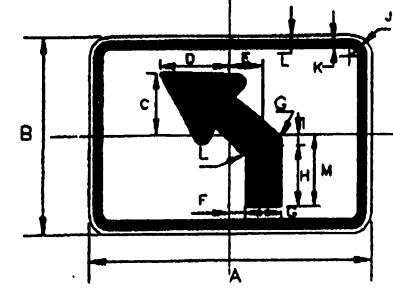
EFFECTIVE DATE: DECEMBER 1998

COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY				
SMALL TRAFFIC SIGNS ROUTE MARKERS TOLLWAYS ROUTE MARKER		RECOMMENDED BY: ASST. EXC. DIR. FOR TRAFFIC DATE: 11-19-98		
		APPROVED BY: SECRETARY DATE: 12/30/98		
		APPROVED BY: EXECUTIVE DIRECTOR DATE: 12-24-98		
		APPROVED BY: DIV. ADM. FHWA-PR DIVISION DATE: 12-22-98		
DATE	REVISION	BY	STD. DWG	STS 19B OF 25



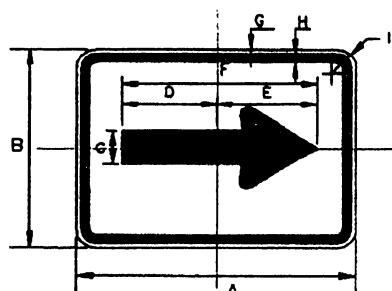
M5-1

DIMENSIONS (INCHES)													
A	B	C	D	E	F	G	H	I	J	K	L	M	N
21.00	15.00	2.06	7.13	0.75	3.19	2.63	5.06	3.38	1.50	0.63	0.38	0.56	0.75
31.50	22.50	3.09	10.69	1.13	4.78	3.94	7.59	5.06	2.25	0.94	0.56	0.84	1.13
42.00	30.00	4.12	14.25	1.50	6.38	5.25	10.13	6.75	3.00	1.25	0.75	1.13	1.50



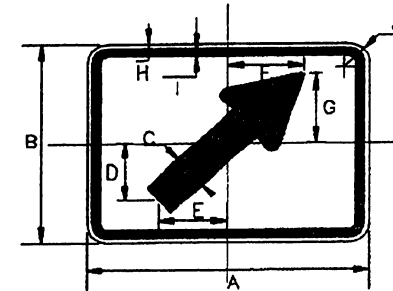
M5-2

DIMENSIONS (INCHES)													
A	B	C	D	E	F	G	H	I	J	K	L	M	
21.00	15.00	4.75	4.50	2.44	1.13	0.38	4.69	0.75	1.50	0.63	0.38	5.44	
31.50	22.50	7.13	6.75	3.66	1.69	0.56	7.03	1.13	2.25	0.94	0.56	8.16	
42.00	30.00	9.50	9.00	4.88	2.25	0.75	9.38	1.50	3.00	1.25	0.75	10.88	



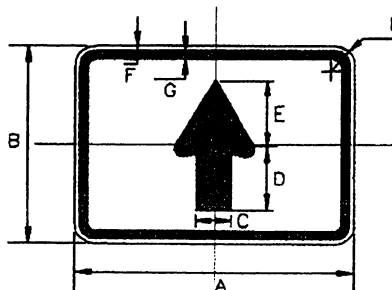
M6-1

DIMENSIONS (INCHES)									
A	B	C	D	E	F	G	H	I	
21.00	15.00	2.63	7.13	7.50	14.63	0.38	0.63	1.50	
31.50	22.50	3.94	10.69	11.25	21.94	0.56	0.94	2.25	
42.00	30.00	5.25	14.25	15.00	29.25	0.75	1.25	3.00	



M6-2

DIMENSIONS (INCHES)										
A	B	C	D	E	F	G	H	I	J	
21.00	15.00	2.63	4.31	5.06	5.63	5.06	0.38	0.63	1.50	
31.50	22.50	3.94	6.47	7.59	8.45	7.59	0.56	0.94	2.25	
42.00	30.00	5.25	8.63	10.12	11.26	10.13	0.75	1.25	3.00	



M6-3

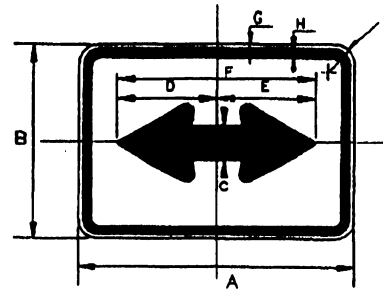
DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	H
21.00	15.00	2.63	4.88	4.88	0.38	0.63	1.50
31.50	22.50	3.94	7.31	7.32	0.56	0.94	2.25
42.00	30.00	5.25	9.75	9.76	0.75	1.25	3.00

NOTES:

1. THE AUXILIARY PLATES SHALL CONFORM TO THE COLOR SCHEME OF THE ROUTE MARKER TO WHICH THEY APPLY AS FOLLOWS:
FOR M1-6A, USE LEGEND: WHITE (REFL), BACKGROUND: BLUE (REFL)
FOR M1-6B, USE LEGEND: BLACK (NON-REFL), BACKGROUND: WHITE (REFL)
FOR M1-6C, USE LEGEND: NUMERALS AND BORDER YELLOW (REFL), BACKGROUND: BLUE (REFL)
FOR M1-6D, USE LEGEND: BLACK (NON-REFL), BACKGROUND: WHITE (REFL)
2. FOR 24"x 24" M1-6A, M1-6B, M1-6C, M1-6D, OR M1-6E USE 21"x15" AUXILIARY PLATES.
FOR 36"x 36" M1-6A, M1-6B, M1-6C, M1-6D, OR M1-6E USE 31.50"x22.50" AUXILIARY PLATES.
FOR 48"x 48" M1-6A, M1-6B, M1-6C, M1-6D, OR M1-6E USE 42"x30" AUXILIARY PLATES.
3. USE MIRROR IMAGE OF DRAWING FOR ARROWS POINTING LEFT.
4. THE CONTRACTOR IS RESPONSIBLE TO DIFFERENTIATE BETWEEN SIGNS WITH ARROWS POINTING RIGHT OR LEFT AS A SUBSIDIARY OBLIGATION.

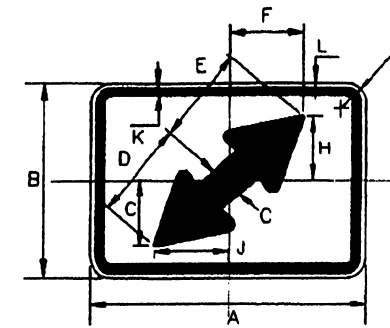
EFFECTIVE DATE: JULY 2000

COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS ROUTE MARKERS AUXILIARY PLATES	RECOMMENDED BY: DEPUTY EXC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 10-11-00	
	APPROVED BY: EXECUTIVE DIRECTOR DATE: 10-11-00	
	APPROVED BY: SECRETARY DATE: May 25/00	
DATE	REVISION	BY
12-1999	GENERAL REVISION	L.V.
05-2000	GENERAL REVISION	L.V.
STD. DWG.	STS 20 OF 25	



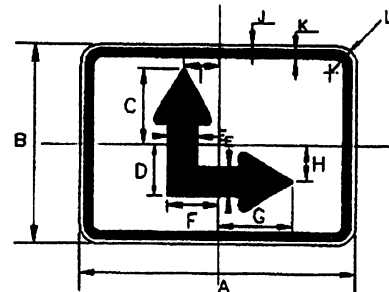
M6-4

DIMENSIONS (INCHES)								
A	B	C	D	E	F	G	H	I
21.00	15.00	2.63	7.50	7.50	15.00	0.38	0.63	1.50
31.50	22.50	3.94	11.25	11.25	22.50	0.56	0.95	2.25
42.00	30.00	5.25	15.00	15.00	30.00	0.75	1.26	3.00



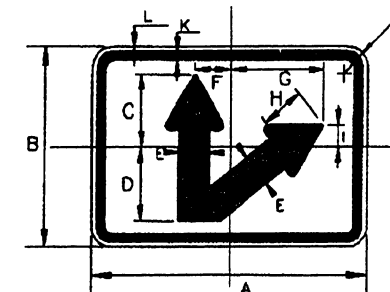
M6-5

DIMENSIONS (INCHES)										
A	B	C	D	E	F	G	H	J	K	L
21.00	15.00	2.25	7.88	7.88	5.88	1.50	5.25	5.88	0.63	0.38
31.50	22.50	3.38	11.81	11.81	8.81	2.25	7.88	8.81	0.94	0.56
42.00	30.00	4.50	15.75	15.76	11.75	3.00	10.50	11.75	1.25	0.75



M6-6

DIMENSIONS (INCHES)											
A	B	C	D	E	F	G	H	I	J	K	L
21.00	15.00	5.75	3.88	2.25	3.88	5.75	2.75	2.75	0.38	0.63	1.50
31.50	22.50	8.63	5.81	3.38	5.81	8.63	4.13	4.13	0.56	0.94	2.25
42.00	30.00	11.50	7.75	4.50	7.75	11.50	5.50	5.50	0.75	1.25	3.00



M6-7

DIMENSIONS (INCHES)											
A	B	C	D	E	F	G	H	I	J	K	L
21.00	15.00	5.75	5.50	2.25	3.88	6.75	4.50	2.13	1.50	0.63	0.38
31.50	22.50	8.63	8.25	3.38	5.81	10.13	6.75	3.19	2.25	0.94	0.56
42.00	30.00	11.50	11.00	4.50	7.75	13.50	9.00	4.25	3.00	1.25	0.75

NOTES:

1. THE AUXILIARY PLATES SHALL CONFORM TO THE COLOR SCHEME OF THE ROUTE MARKER TO WHICH THEY APPLY AS FOLLOWS:
FOR M1-6A, USE LEGEND: WHITE (REFL), BACKGROUND: BLUE (REFL)
FOR M1-6B, USE LEGEND: BLACK (NON-REFL), BACKGROUND: WHITE (REFL)
FOR M1-6C, USE LEGEND: NUMERALS AND BORDER YELLOW (REFL), BACKGROUND: BLUE (REFL)
FOR M1-6D, USE LEGEND: BLACK (NON-REFL), BACKGROUND: WHITE (REFL)
2. FOR 24" x 24" M1-6A, M1-6B, M1-6C, M1-6D, OR M1-6E USE 21"x15" AUXILIARY PLATES.
FOR 36" x 36" M1-6A, M1-6B, M1-6C, M1-6D, OR M1-6E USE 31.50"x22.50" AUXILIARY PLATES.
FOR 48" x 48" M1-6A, M1-6B, M1-6C, M1-6D, OR M1-6E USE 42"x30" AUXILIARY PLATES.
3. USE MIRROR IMAGE OF DRAWING FOR ARROWS POINTING LEFT.
4. THE CONTRACTOR IS RESPONSIBLE TO DIFFERENTIATE BETWEEN SIGNS WITH ARROWS POINTING RIGHT OR LEFT AS A SUBSIDIARY OBLIGATION.

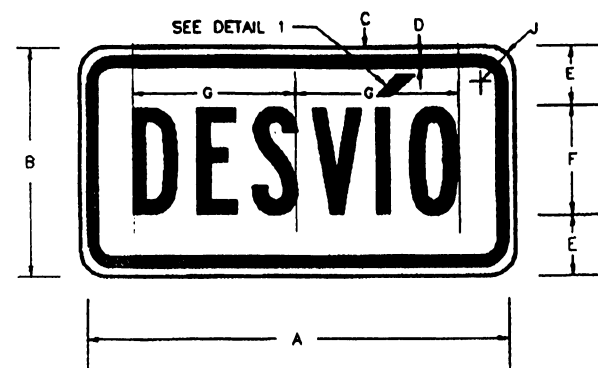
EFFECTIVE DATE: JULY 2000

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

SMALL TRAFFIC SIGNS
ROUTE MARKERS
AUXILIARY PLATES

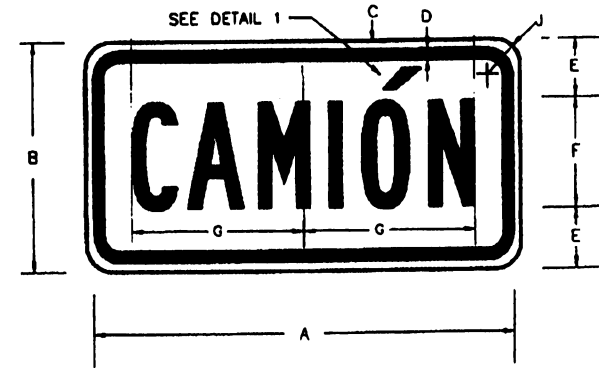
RECOMMENDED BY:
DEPUTY EXC. DIR. FOR
TRAFFIC AND TOLL ROADS
DATE: 19-11-00
APPROVED BY:
EXECUTIVE DIRECTOR
DATE: 12-12-00
APPROVED BY:
SECRETARY
DATE: 12-12-00

DATE	REVISION	BY	STD.	STS
12-1999	GENERAL REVISION	I.V.	DWG.	20A OF 25
05-2000	GENERAL REVISION	I.V.		



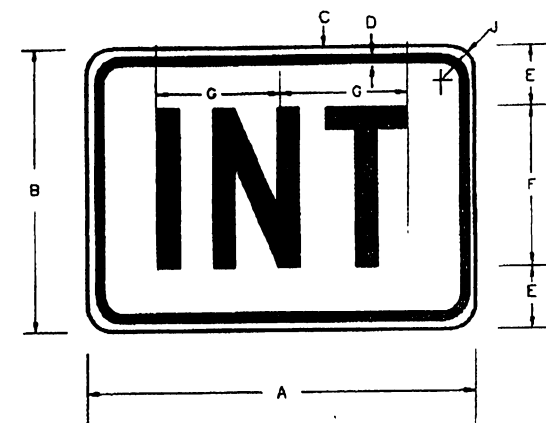
M4-1

DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	J
24.00	12.00	0.38	0.63	3.00	6B	9.25	1.50
36.00	18.00	0.56	0.94	4.50	9B	13.88	2.25
48.00	24.00	0.75	1.25	6.00	12B	18.50	3.00



M4-2

DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	J
24.00	12.00	0.38	0.63	3.50	5B	8.13	1.50
36.00	18.00	0.56	0.94	5.00	8B	12.20	2.25
48.00	24.00	0.75	1.25	7.00	10B	16.26	3.00



M2-1

DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	J
21.00	15.00	0.38	0.63	3.50	8D	7.45	1.50
31.50	22.50	0.56	0.94	5.25	12D	11.17	2.25
42.00	30.00	0.75	1.25	7.00	16D	14.89	3.00

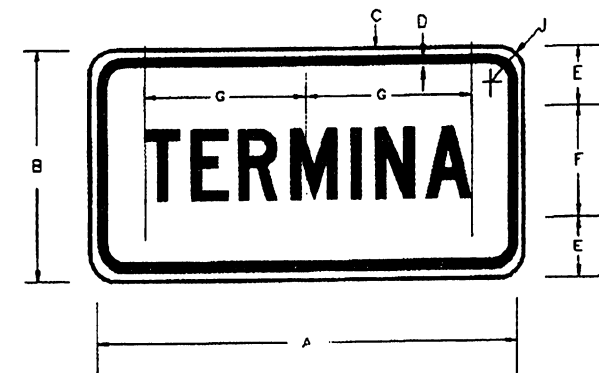
NOTE:

1. THE AUXILIARY PLATES SHALL CONFORM TO THE COLOR SCHEME OF THE ROUTE MARKER TO WHICH THEY APPLY AS FOLLOWS:
FOR M1-6A, USE LEGEND: WHITE (REFL), BACKGROUND: BLUE (REFL)
FOR M1-6B, USE LEGEND: BLACK (NON-REFL), BACKGROUND: WHITE (REFL)
FOR M1-6C, USE LEGEND: YELLOW (REFL), BACKGROUND: BLUE (REFL)
FOR M1-6D, USE LEGEND AND BORDER : BLACK (NON-REFL), BACKGROUND: WHITE (REFL)
2. FOR 24"x 24" M1-6A, M1-6B, M1-6C, M1-6D, OR M1-6E USE 24"x 12" (OR 21"x 15", M2-1) AUXILIARY MARKERS.
FOR 36"x 36" M1-6A, M1-6B, M1-6C, M1-6D, OR M1-6E USE 36"x 18" (OR 31.50"x22.5", M2-1) AUXILIARY MARKERS.
FOR 48"x 48" M1-6A, M1-6B, M1-6C, M1-6D, OR M1-6E USE 48"x 24" (OR 42"x30", M2-1) AUXILIARY MARKERS.



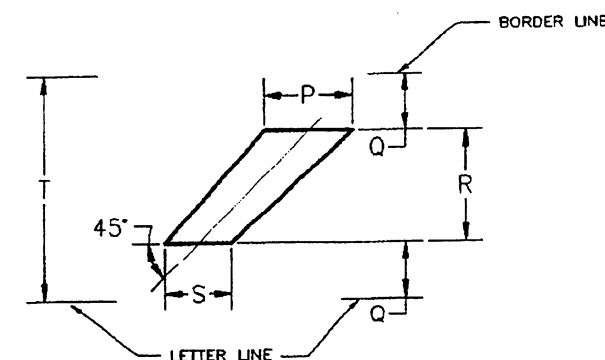
M4-3

DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	J
24.00	12.00	0.38	0.63	3.00	6C	9.47	1.50
36.00	18.00	0.57	0.95	4.50	9C	14.21	2.25
48.00	24.00	0.76	1.26	6.00	12C	18.94	3.00



M4-4

DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	J
24.00	12.00	0.38	0.63	4.00	4C	9.28	1.50
36.00	18.00	0.56	0.94	6.00	6C	13.92	2.25
48.00	24.00	0.75	1.25	8.00	8C	18.56	3.00

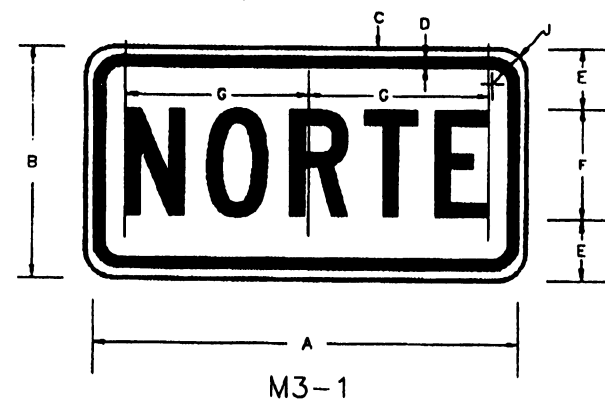


DETAIL 1

FOR M4-1					
HEIGHT & SERIES	P	Q	R	S	T
6B	0.75	0.62	1.25	0.56	2.49
9B	1.13	0.75	1.50	0.84	3.00
12B	1.50	1.00	2.00	1.12	4.00

FOR M4-2					
HEIGHT & SERIES	P	Q	R	S	T
5B	0.62	0.62	1.25	0.46	2.49
8B	1.00	0.87	1.75	0.75	3.50
10B	1.25	1.25	2.50	0.94	5.00

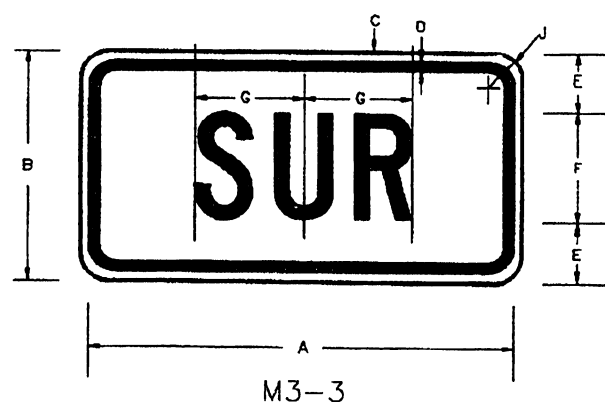
COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
EFFECTIVE DATE: JULY 2000		RECOMMENDED BY: <i>[Signature]</i> DEPUTY EXC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 12-19-99
SMALL TRAFFIC SIGNS ROUTE MARKERS AUXILIARY MARKERS		APPROVED BY: <i>[Signature]</i> EXECUTIVE DIRECTOR DATE: 12-25-99
DATE: 12-19-99 05-2000		APPROVED BY: <i>[Signature]</i> SECRETARY DATE: May 25/00
DATE: 12-19-99 05-2000	REVISION: GENERAL REVISION GENERAL REVISION	BY: I.V. I.V.
STD. DWG. 21 OF 25		STS



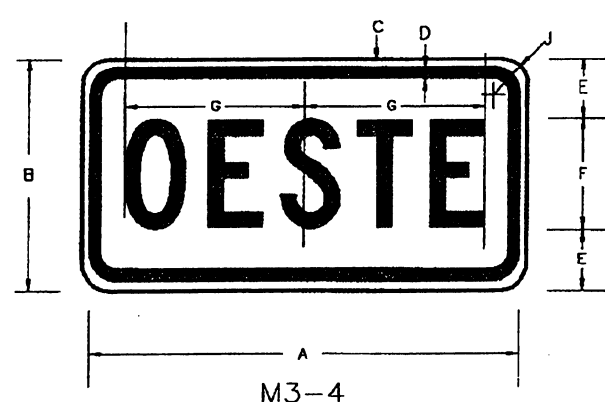
DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	J
24.00	12.00	0.38	0.63	3.00	6B	8.17	1.50
36.00	18.00	0.56	0.94	4.50	9B	12.26	2.25
48.00	24.00	0.75	1.25	6.00	12B	16.34	3.00



DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	J
24.00	12.00	0.38	0.63	3.00	6C	7.66	1.50
36.00	18.00	0.56	0.94	4.50	9C	11.48	2.25
48.00	24.00	0.75	1.25	6.00	12C	15.31	3.00



DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	J
24.00	12.00	0.38	0.63	3.00	6D	7.46	1.50
36.00	18.00	0.56	0.94	4.50	9D	11.18	2.25
48.00	24.00	0.75	1.25	6.00	12D	14.91	3.00



DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	J
24.00	12.00	0.38	0.63	3.00	6B	7.92	1.50
36.00	18.00	0.56	0.94	4.50	9B	11.87	2.25
48.00	24.00	0.75	1.25	6.00	12B	15.83	3.00

NOTE:

1. THE AUXILIARY PLATES SHALL CONFORM TO THE COLOR SCHEME OF THE ROUTE MARKER TO WHICH THEY APPLY AS FOLLOWS:
 FOR M1-6A, USE LEGEND: WHITE (REFL), BACKGROUND: BLUE (REFL)
 FOR M1-6B, USE LEGEND: BLACK (NON-REFL), BACKGROUND: WHITE (REFL)
 FOR M1-6C, USE LEGEND: YELLOW (REFL), BACKGROUND: BLUE (REFL)
 FOR M1-6D, USE LEGEND AND BORDER : BLACK (NON-REFL), BACKGROUND: WHITE (REFL)
2. FOR 24"x 24" M1-6A, M1-6B, M1-6C, M1-6D, OR M1-6E USE 24"x 12" (OR 21"x 15", M2-1) AUXILIARY MARKERS.
 FOR 36"x 36" M1-6A, M1-6B, M1-6C, M1-6D, OR M1-6E USE 36"x 18" (OR 31.50"x22.5", M2-1) AUXILIARY MARKERS.
 FOR 48"x 48" M1-6A, M1-6B, M1-6C, M1-6D, OR M1-6E USE 48"x 24" (OR 42"x30", M2-1) AUXILIARY MARKERS.

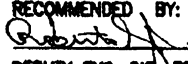
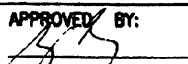
EFFECTIVE DATE: FEBRUARY 2000

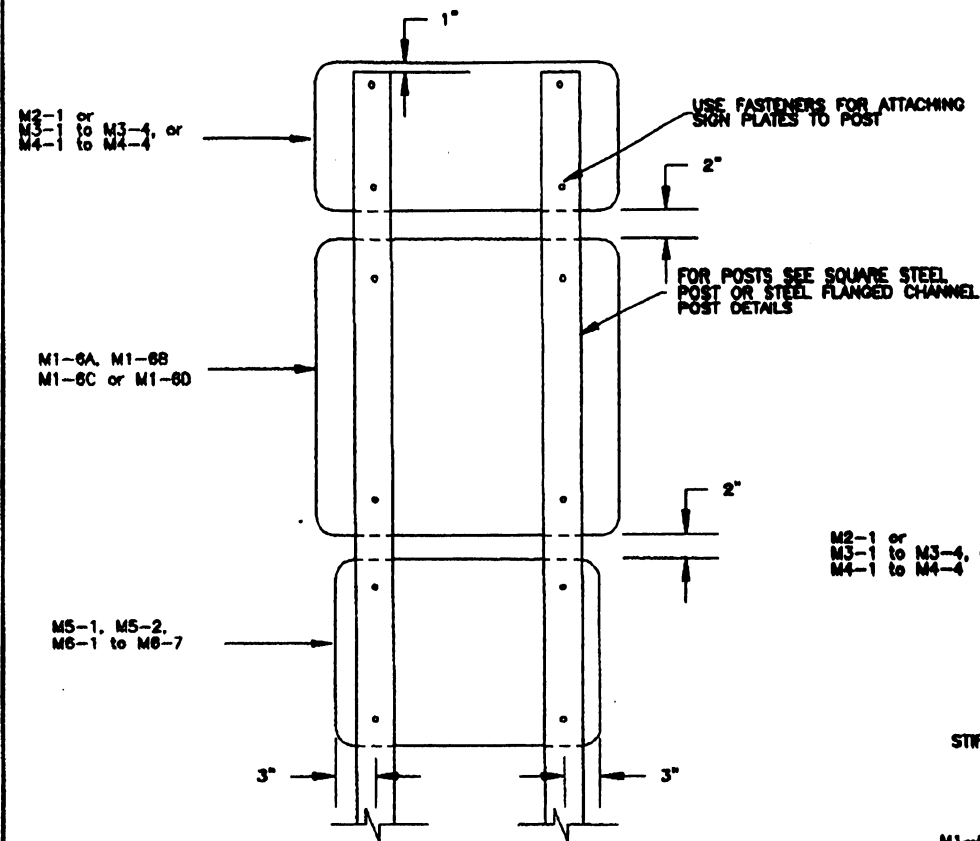
COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS ROUTE MARKERS AUXILIARY MARKERS	RECOMMENDED BY: <i>[Signature]</i> DEPUTY EXC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 01-04-99	
	APPROVED BY: <i>[Signature]</i> EXECUTIVE DIRECTOR DATE: 10/21/99	
	APPROVED BY: <i>[Signature]</i> SECRETARY DATE: 10/21/99	
	APPROVED BY: <i>[Signature]</i> DIV. ADM. FHWA-PR DIVISION DATE: 1-13-2000	
DATE 12-1999	REVISION GENERAL REVISION	BY I.V.
STD. DWG.	STS 21A OF 25	

ADDITIONAL GENERAL NOTES APPLICABLE TO ALL ROUTE MARKERS SIGN ASSEMBLIES DETAILS:

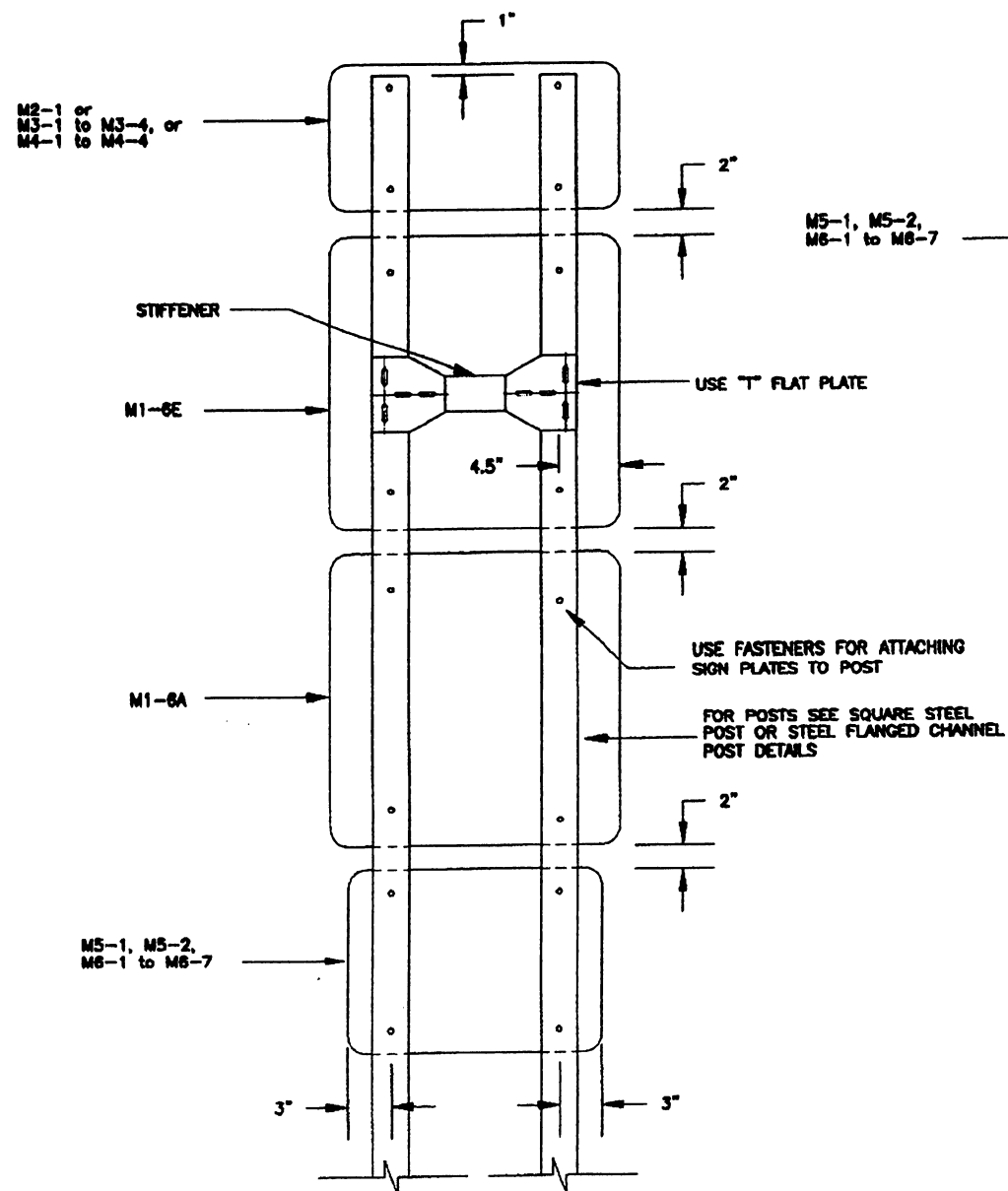
1. THE FOUNDATIONS SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST FOUNDATION DETAILS.
2. TOP POST TO BASE POST CONNECTION SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST CONNECTION DETAILS.
3. VERTICAL CLEARANCE OF SIGN PANEL SHALL BE 7'-0" TO 7'-6" FROM THE LOWEST SIGN PANEL TO THE GRADE OF THE NEAREST LANE EDGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCREASING OR DECREASING THE LENGTH OF POST TO ACHIEVE THE MOUNTING HEIGHT ABOVE PAVEMENT EDGE.
4. ALL TOP POSTS AND BASE POSTS SHALL BE CONTINUOUS IN LENGTH.
5. MAXIMUM DEVIATION FROM VERTICAL, FOR ANY COMPONENT, IN ANY DIRECTION SHALL BE 1/8" IN A FOOT.
6. MAXIMUM DEVIATION FROM HORIZONTAL, FOR ANY COMPONENT SHALL BE 1/8" IN A FOOT.
7. THE CONTRACTOR SHALL DRILL ADDITIONAL HOLES IN THE SIGN PLATE AS A SUBSIDIARY OBLIGATION.
8. BOLT TOP POST TO FLAT PLATE ("+" OR "T") WITH 5/16"Ø ALUMINUM FLAT HEAD MACHINE SCREWS WITH NUTS AND LOCK WASHER.
9. WHEN ROUTE MARKER ASSEMBLIES INCLUDE TOLLWAYS ROUTE MARKER, THE CONTRACTOR SHALL INCLUDE SIGN M1-6E AND REARRANGE MOUNTING DETAILS AS A SUBSIDIARY OBLIGATION.
10. FOR TOLLWAY ROUTE MARKERS ASSEMBLIES 36"x36" OR 48"x48" AND FOR ROUTE MARKER ASSEMBLIES OF THREE OR FOUR 36"x36" AND ALL 48"x48" SEE GROUND MOUNTED BREAK-AWAY SIGNS STANDARD DRAWINGS.
11. SIGN PLATES SHALL BE ATTACHED TO POSTS OR STIFFENERS BY MEANS OF THE APPROVED FASTENERS INCLUDED IN THE STS DRAWINGS. STIFFENERS SHALL BE SQUARE STEEL POST, STEEL FLANGED CHANNEL POST OR ALTERNATE STIFFENER AS PER SMALL TRAFFIC SIGNS STANDARD DRAWINGS.

EFFECTIVE DATE: JULY 2000

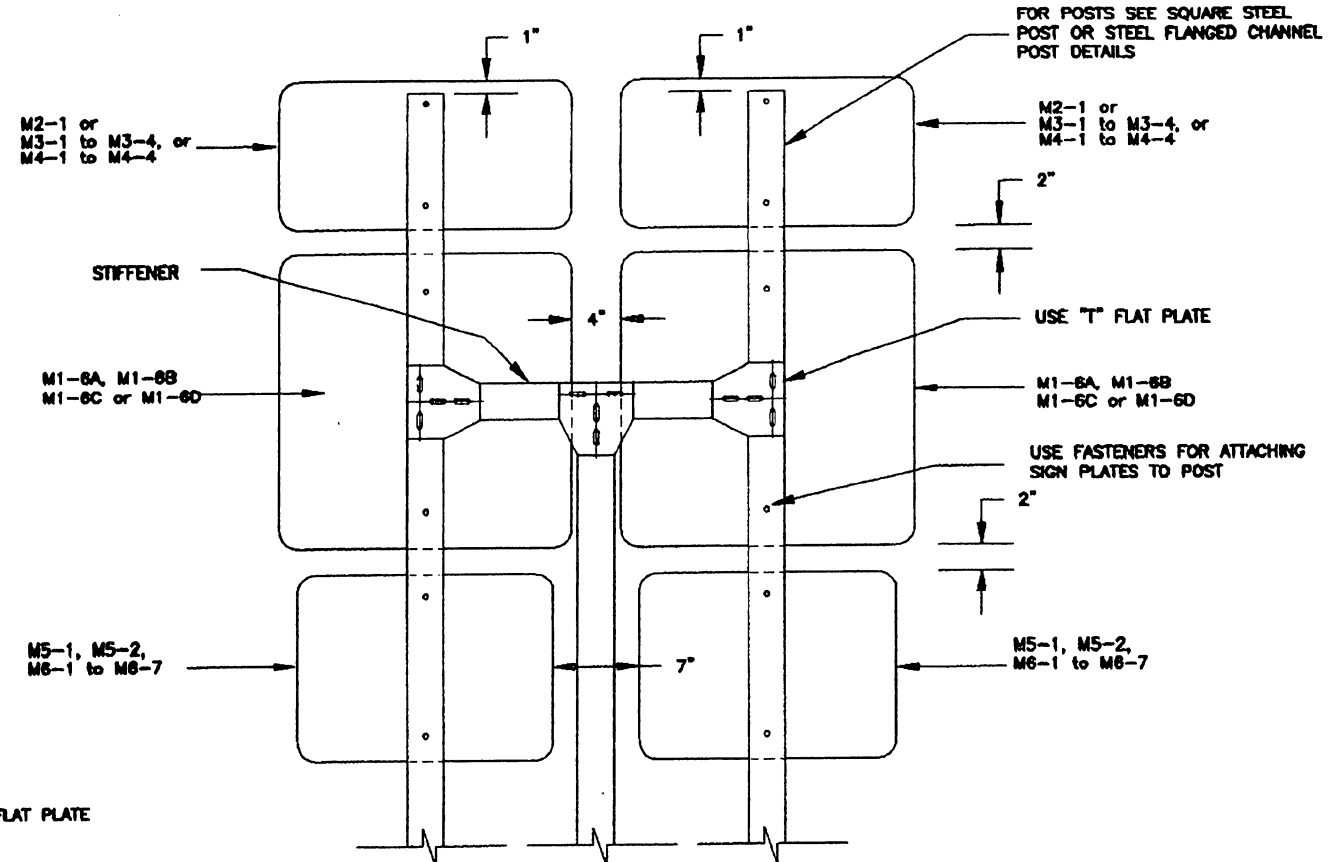
COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY				
SMALL TRAFFIC SIGNS ROUTE MARKERS SIGN ASSEMBLY DETAILS		RECOMMENDED BY:  DEPUTY EXC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 17-V-00		
		APPROVED BY:  EXECUTIVE DIRECTOR DATE: MAY-19-00		
DATE 03-2000	REVISION REVISED NOTES	BY I.V.	STD. DWG.	STS 22 OF 25



TYPICAL ROUTE MARKER ASSEMBLY
FOR ONE 24"x24" ROUTE MARKER WITH
OR WITHOUT AUXILIARY PLATES



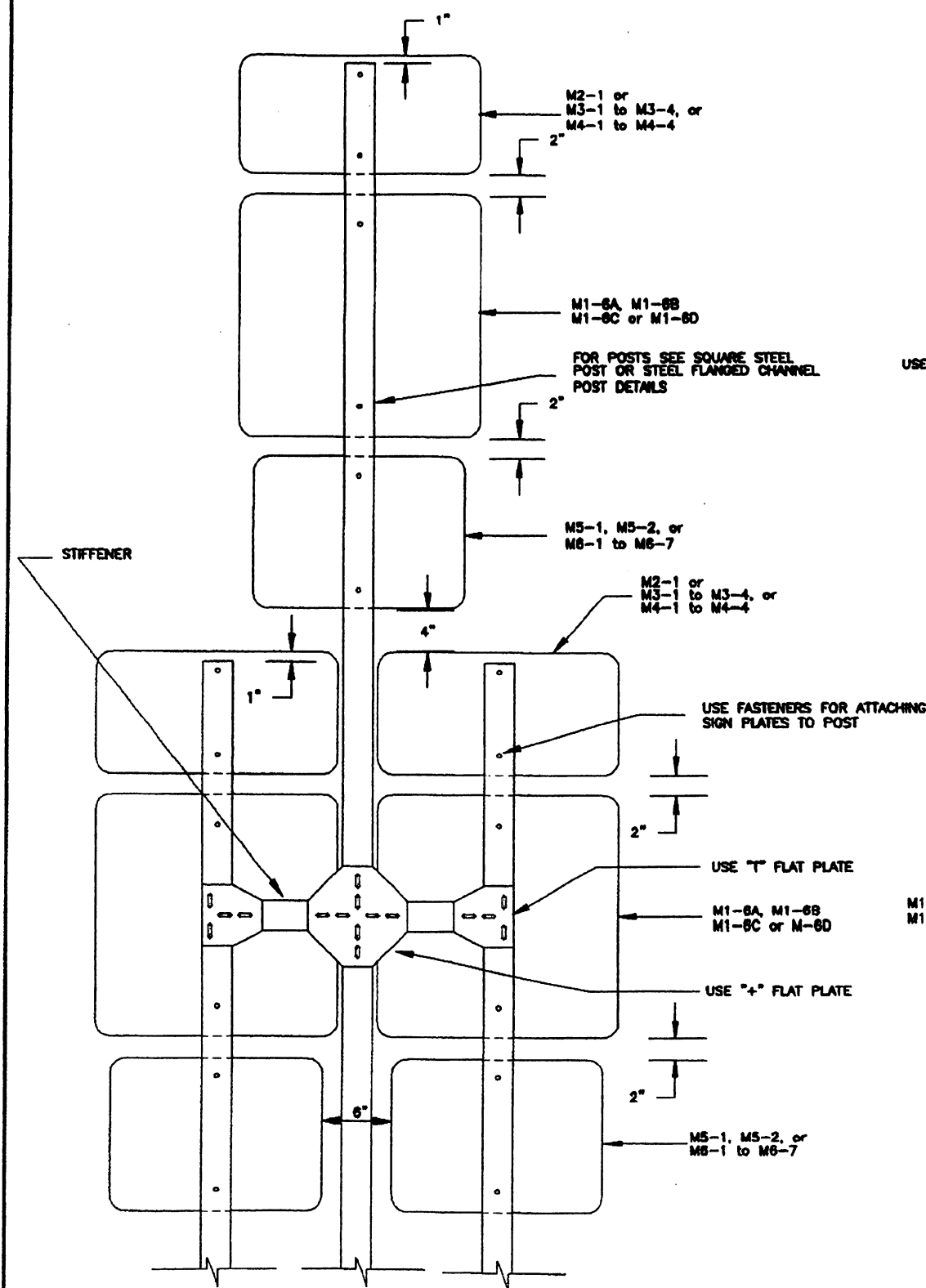
TYPICAL TOLLWAYS ROUTE MARKER ASSEMBLY
FOR ONE 24"x24" ROUTE MARKER WITH OR
WITHOUT AUXILIARY PLATES



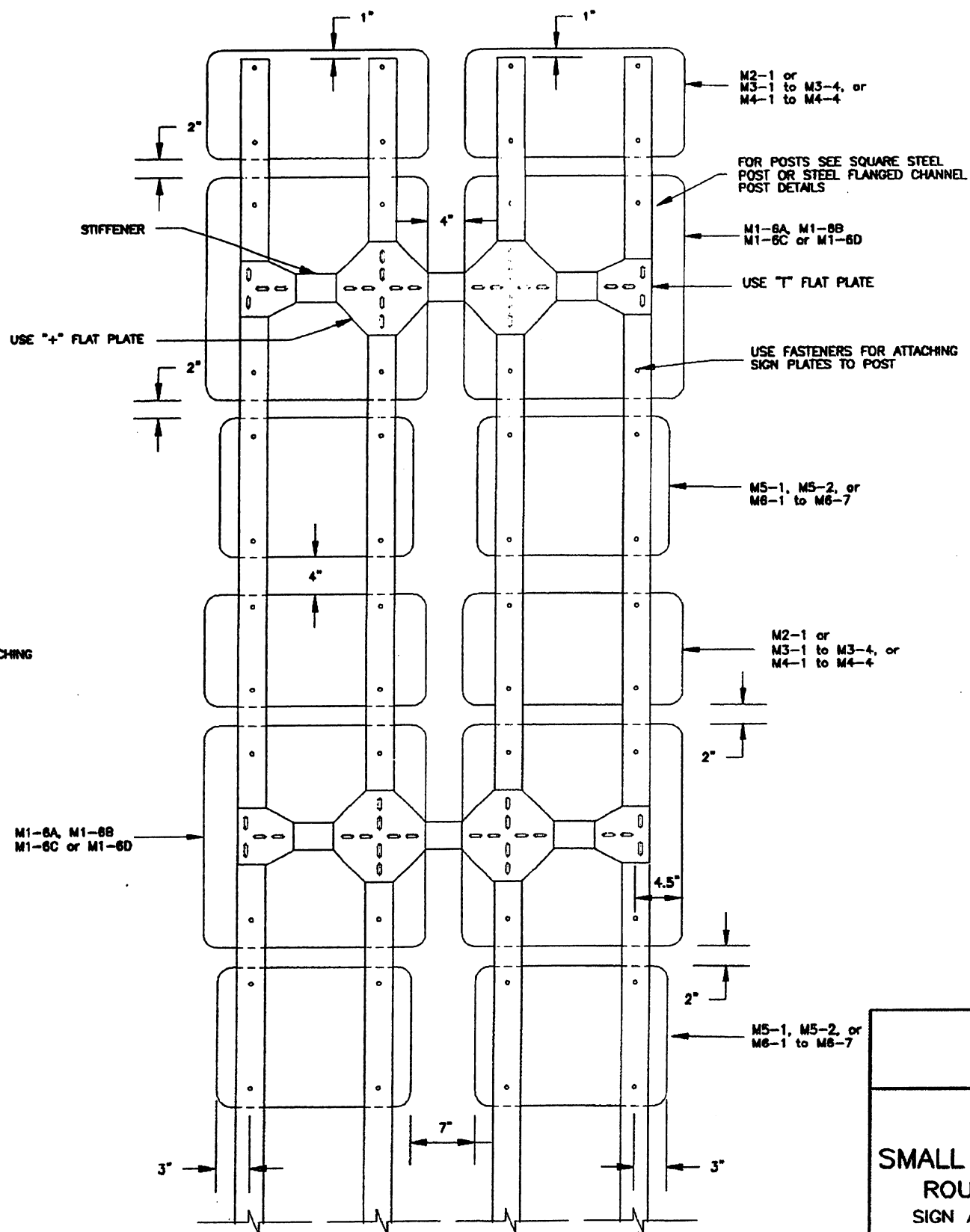
TYPICAL ROUTE MARKER ASSEMBLY
FOR TWO 24"x24" ROUTE MARKERS WITH
OR WITHOUT AUXILIARY PLATES

EFFECTIVE DATE: JULY 2000

COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS ROUTE MARKERS SIGN ASSEMBLY DETAILS		RECOMMENDED BY: <i>[Signature]</i> DEPUTY EXC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 17-V-00
		APPROVED BY: <i>[Signature]</i> EXECUTIVE DIRECTOR DATE: MAY-19-00
DATE 03-2000	REVISION REVISED MARKER ASSEMBLIES	BY I.V.
STD. DWG. 22A OF 25		STS



TYPICAL ROUTE MARKER ASSEMBLY
FOR THREE 24"x24" ROUTE MARKERS
WITH OR WITHOUT AUXILIARY PLATES



TYPICAL ROUTE MARKER ASSEMBLY
FOR FOUR 24"x24" ROUTE MARKERS
WITH OR WITHOUT AUXILIARY PLATES

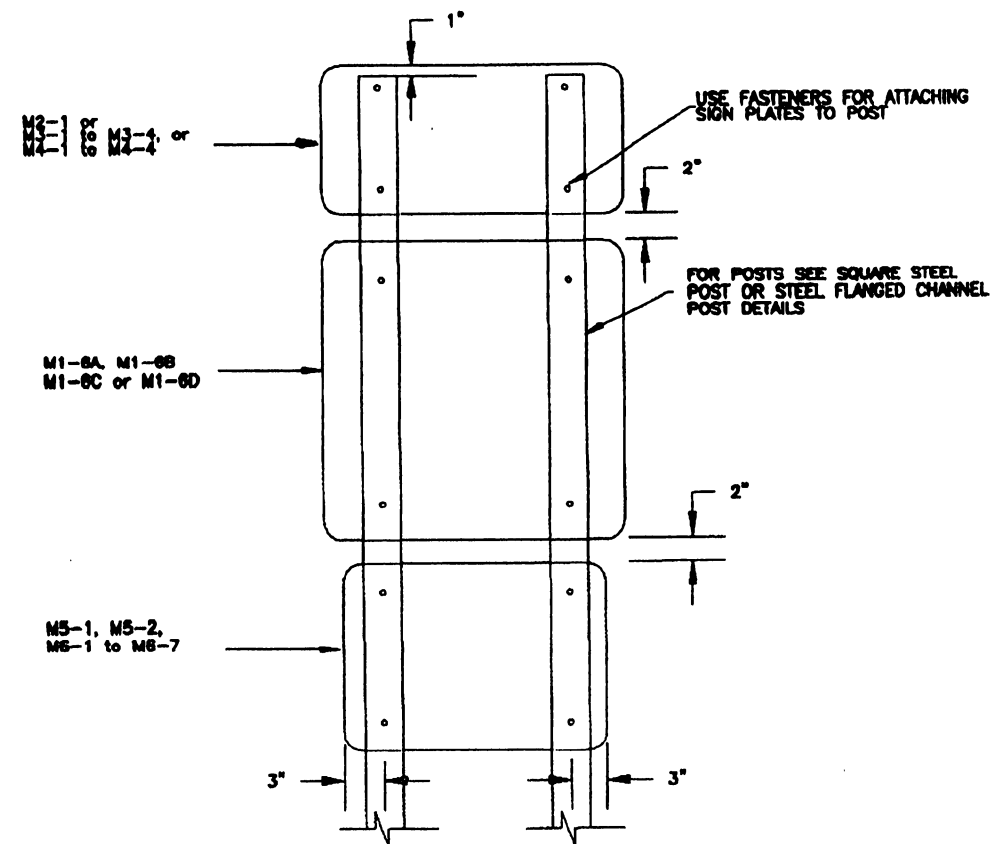
EFFECTIVE DATE: JULY 2000

COMMONWEALTH OF PUERTO RICO
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
HIGHWAY AND TRANSPORTATION AUTHORITY

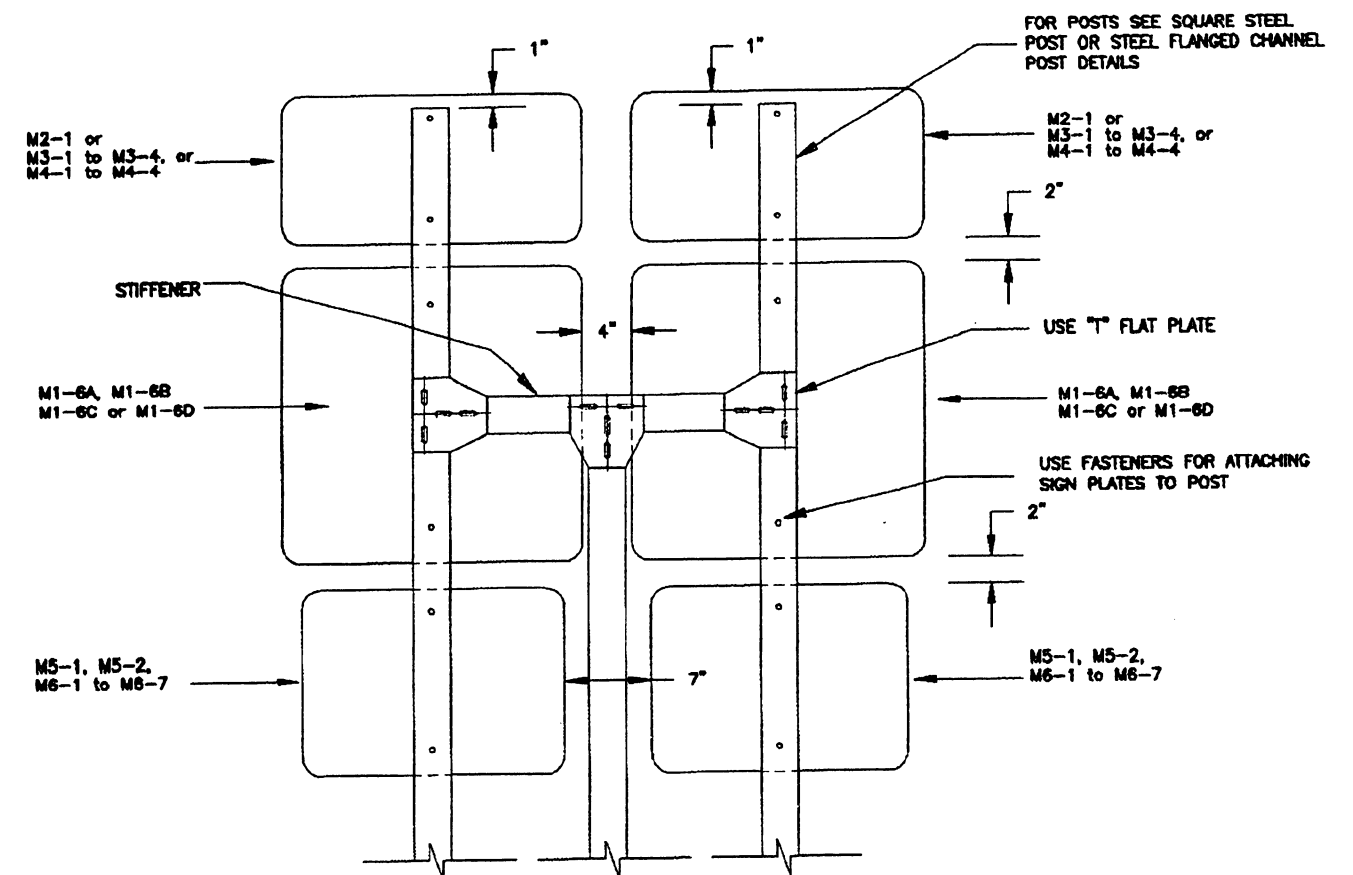
SMALL TRAFFIC SIGNS ROUTE MARKERS SIGN ASSEMBLY DETAILS

RECOMMENDED BY:
[Signature]
DEPUTY EXC. DIR. FOR
TRAFFIC AND TOLL ROADS
DATE: 11-V-00
APPROVED BY:
[Signature]
EXECUTIVE DIRECTOR
DATE: MAY-19-00

DATE	REVISION	BY	STD.	STS
03-2000	REVISED MARKER ASSEMBLIES	I.V.		
			DWG.	22B OF 25



TYPICAL ROUTE MARKER ASSEMBLY
FOR ONE 36"x36" ROUTE MARKER WITH
OR WITHOUT AUXILIARY PLATES



TYPICAL ROUTE MARKER ASSEMBLY
FOR TWO 36"x36" ROUTE MARKERS WITH
OR WITHOUT AUXILIARY PLATES

EFFECTIVE DATE: JULY 2000

COMMONWEALTH OF PUERTO RICO DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY AND TRANSPORTATION AUTHORITY		
SMALL TRAFFIC SIGNS ROUTE MARKERS SIGN ASSEMBLY DETAILS		RECOMMENDED BY: DEPUTY EXEC. DIR. FOR TRAFFIC AND TOLL ROADS DATE: 6-7-00
APPROVED BY: EXECUTIVE DIRECTOR DATE: MAY-19-00		STD. STS DWG. 22C OF 25
DATE	REVISION	BY
03-2000	REVISED MARKER ASSEMBLIES	I.V.