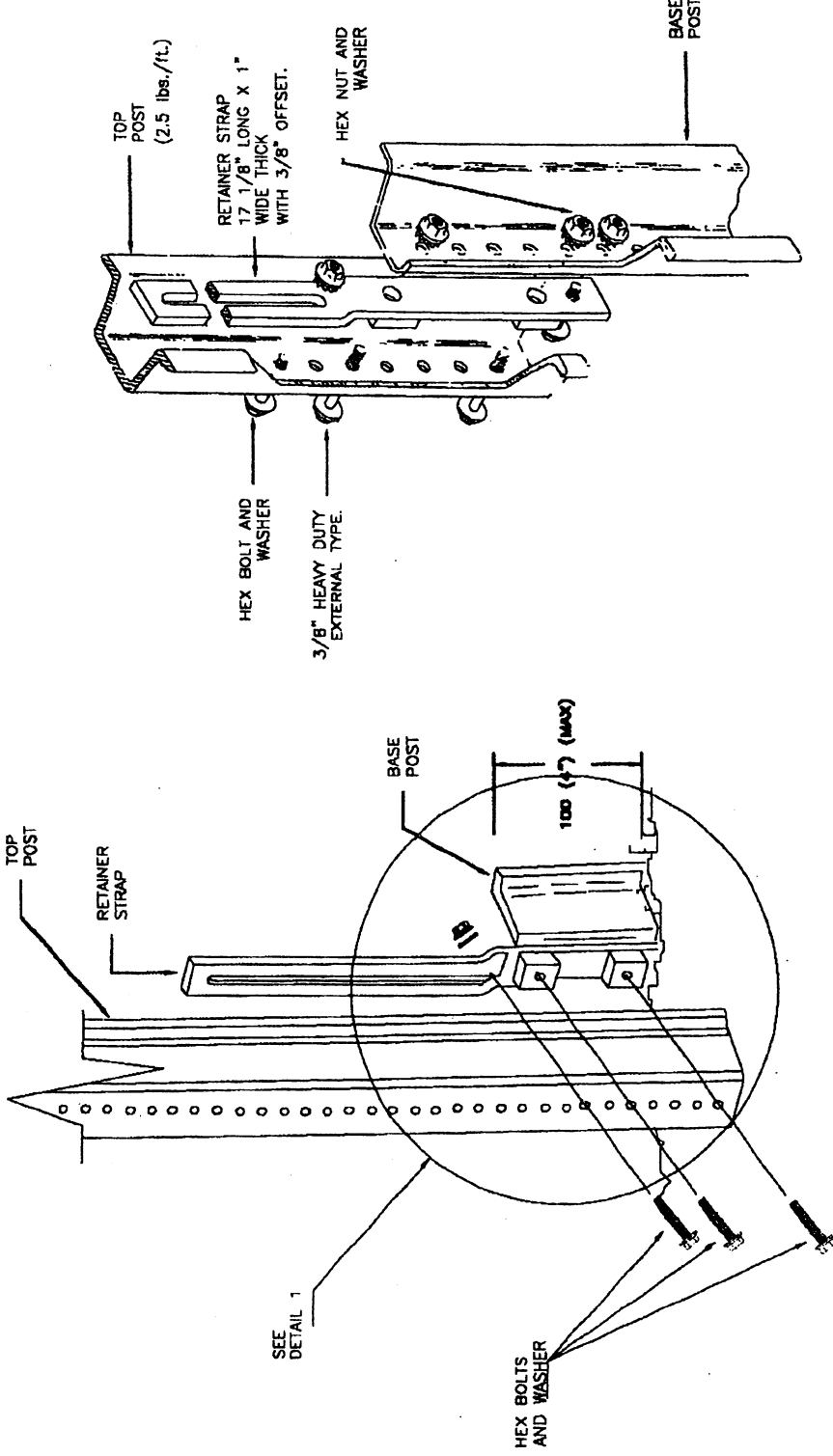
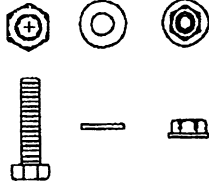


### EZE-ERECT SYSTEM

AS MANUFACTURED BY FRANKLIN INDUSTRIES



EZE-ERECT CONNECTION DETAIL

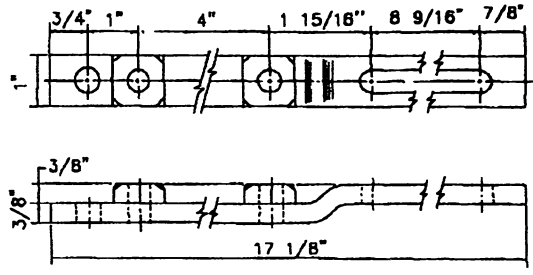


### CLASS 12.9 HEX BOLT, WASHER AND NUT

AS SPECIFIED BY FRANKLIN INDUSTRIES

#### GENERAL NOTES FOR EZE-ERECT SIGN SUPPORT SYSTEM

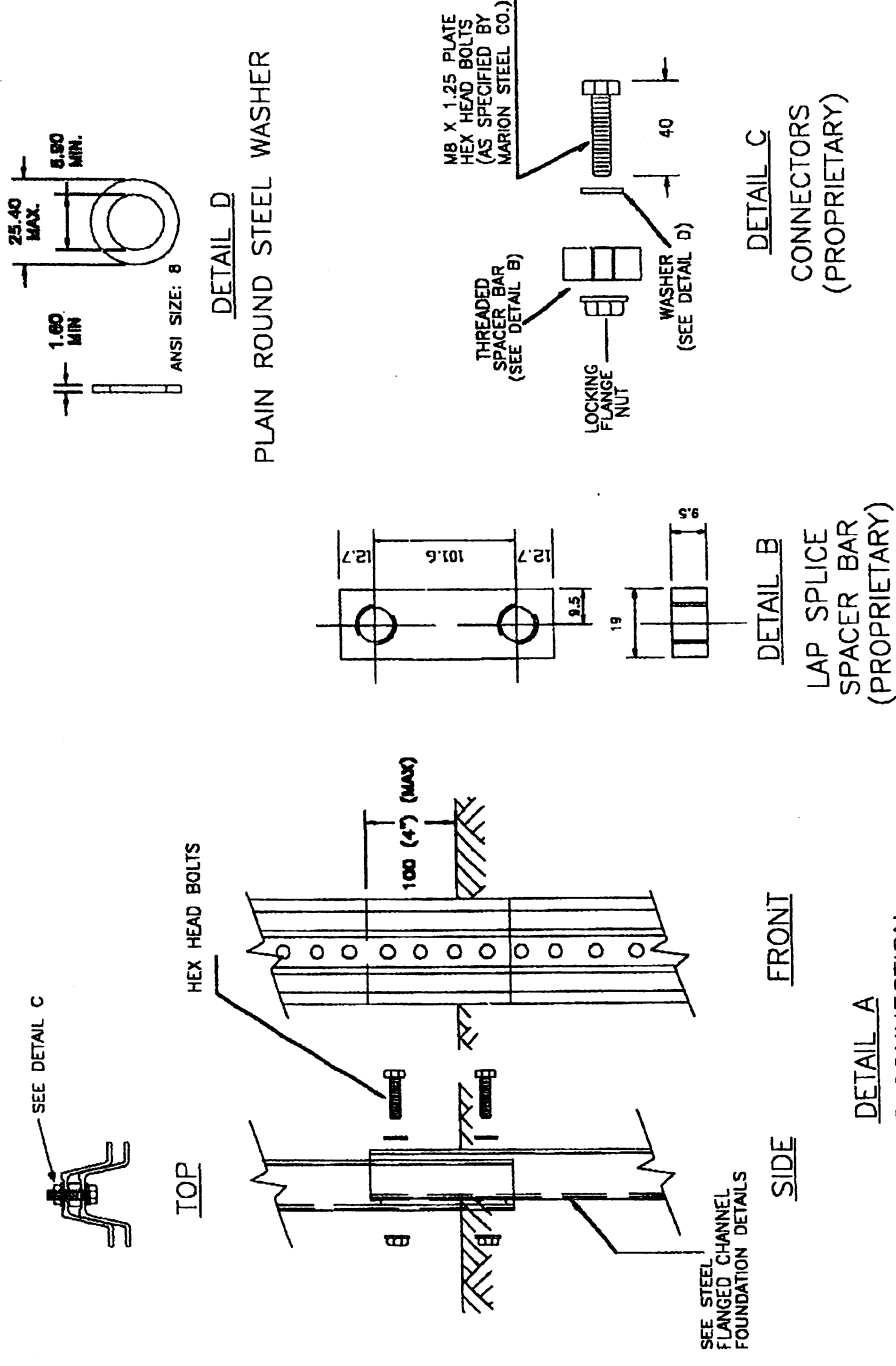
1. THE RETAINER STRAP SHALL BE GALVANIZED BY THE HOT DIP PROCESS CONFORMING TO ASTM A123.
2. HEX BOLT SHALL BE MANUFACTURED ACCORDING TO THE GEOMETRIC SPECIFICATIONS INCLUDED IN ANSI B18.2.3.5M THREADS SHALL CONFORM TO ANSI B1.13M FOR CLASS 6g THREADS.
3. MATERIALS FOR BOLTS SHALL CONFORM TO ASTM F568 FOR CLASS 12.9 (1220 MPA TENSILE STRENGTH AND 1100 MPA YIELD STRENGTH). BOLT HEAD SHALL BE MARKED AS SPECIFIED IN ASTM F568 SECTION 9 WITH THE MANUFACTURER'S IDENTIFICATION SYMBOL AND THE SYMBOL "12.9".
4. NUTS SHALL BE MANUFACTURED ACCORDING TO THE DIMENSIONS AND TOLERANCES IN ANSI B18.2.4.4M FOR METRIC HEX FLANGE NUTS. THE M8X1.25 THREADS SHALL CONFORM TO ANSI B1.13M FOR CLASS 6H.
5. NUTS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M291M FOR CLASS 12 NUTS. PLAIN ROUND STEEL WASHERS SHALL BE MANUFACTURED ACCORDING TO THE DIMENSIONAL AND TOLERANCES IN ANSI B18.22M FOR REGULAR SERIES WASHERS.
6. BOLTS, NUTS AND WASHER SHALL BE ZINC COATED ACCORDING TO AASHTO M232.
7. THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER INSTALLATION INSTRUCTIONS.



RETAINER-SPACER STRAP

### LAP SPICE BREAKAWAY SYSTEM

AS MANUFACTURED BY MARION STEEL COMPANY



DETAIL A  
SPICE CONNECTION

DETAIL B  
LAP SPICE  
SPACER BAR  
(PROPRIETARY)

DETAIL C  
CONNECTORS  
(PROPRIETARY)

DETAIL D  
PLAIN ROUND STEEL WASHER

#### GENERAL NOTES FOR LAP SPICE BREAKAWAY SYSTEM

1. THE SPACER BAR SHALL BE FABRICATED FROM HOT ROLLED CARBON STEEL BARS CONFORMING TO AASHTO M183M.
2. SPACER BAR SHALL BE DRILLED AND TAPPED WITH M 8 X 1.25 THREADS AS SPECIFIED IN ANSI B1.13M FOR CLASS G THREADS.
3. SPACER BAR SHALL BE SILVER COLORED AS PER MARION STEEL.
4. SPICE HARDWARE SHALL BE ZINC PLATED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM B633.
5. HEX BOLT SHALL BE IDENTIFIED BY HEAD MARKINGS OF "M180" AS WELL AS A RED FINISH.
6. PLAIN ROUND STEEL WASHERS SHALL BE MANUFACTURED ACCORDING TO THE DIMENSIONS AND TOLERANCES IN ANSI B18.22M FOR REGULAR SERIES WASHER.
7. PLAIN ROUND STEEL WASHER SHALL BE ZINC-COATED ACCORDING TO AASHTO M232 FOR CLASS D.

EFFECTIVE DATE: DECEMBER 1999

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

RECOMMENDED BY:  
DEPUTY EXEC. DIR. FOR  
DATE: 12/15/99  
APPROVED BY:  
EXECUTIVE DIRECTOR  
DATE: 12/15/99  
APPROVED BY:  
DIV. ADM. FIN. & DIVISION  
DATE: 12/15/99

### SMALL TRAFFIC SIGNS STEEL FLANGED CHANNEL BASE POST TO TOP POST CONNECTION DETAILS

DATE	REVISION	BY
2-1999	NOTE REVISION	L.V.
5-1999	NOTE REVISION	L.V.
10-1999	NOTE REVISION	L.V.

STD. STS  
DWG. 3 OF 25