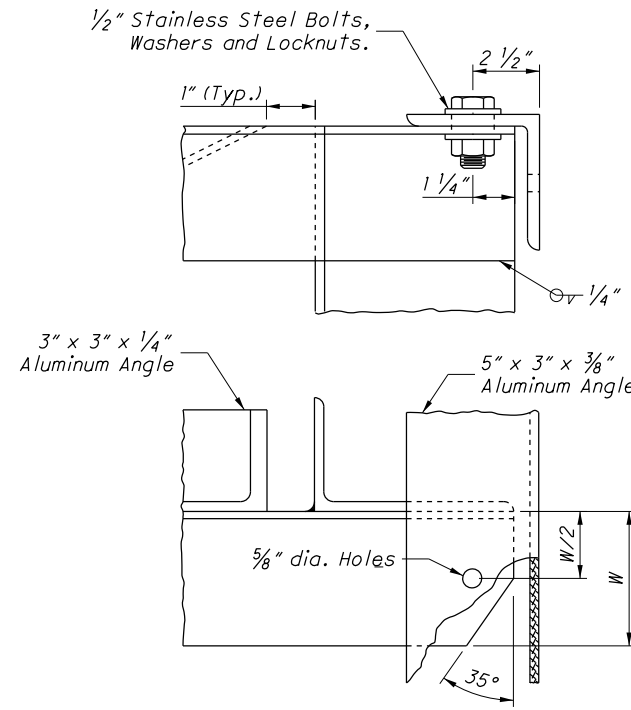
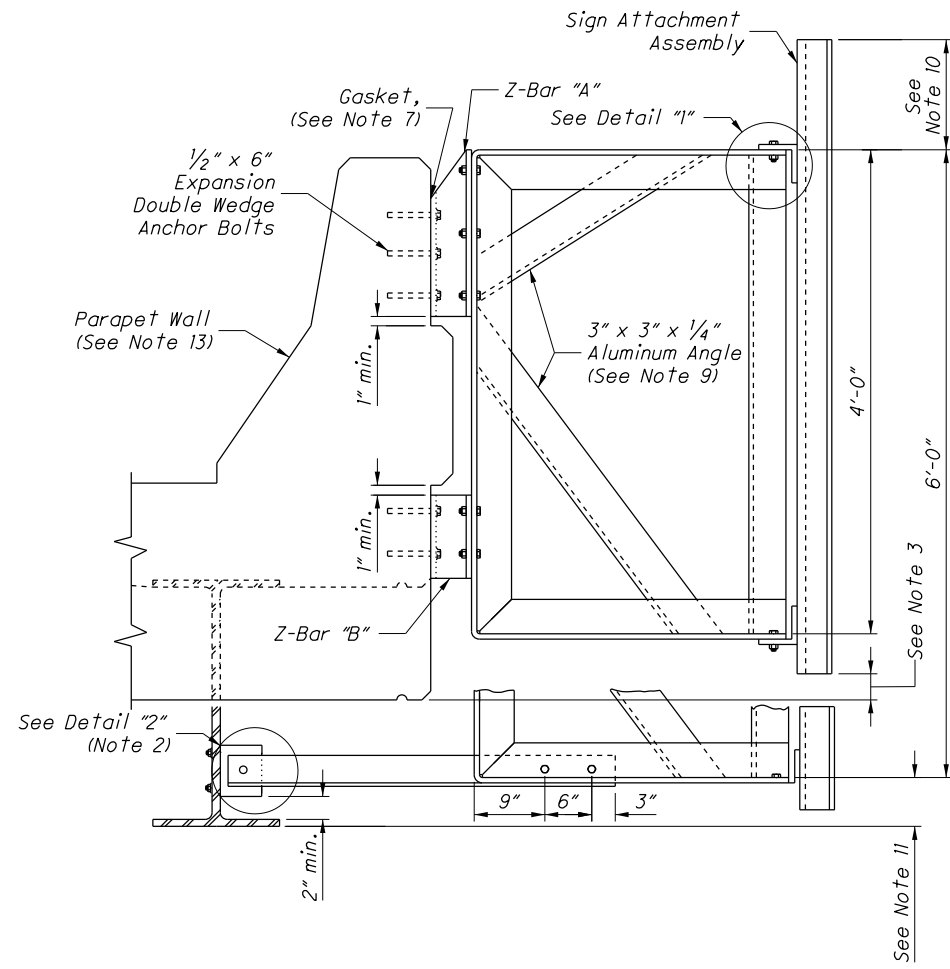


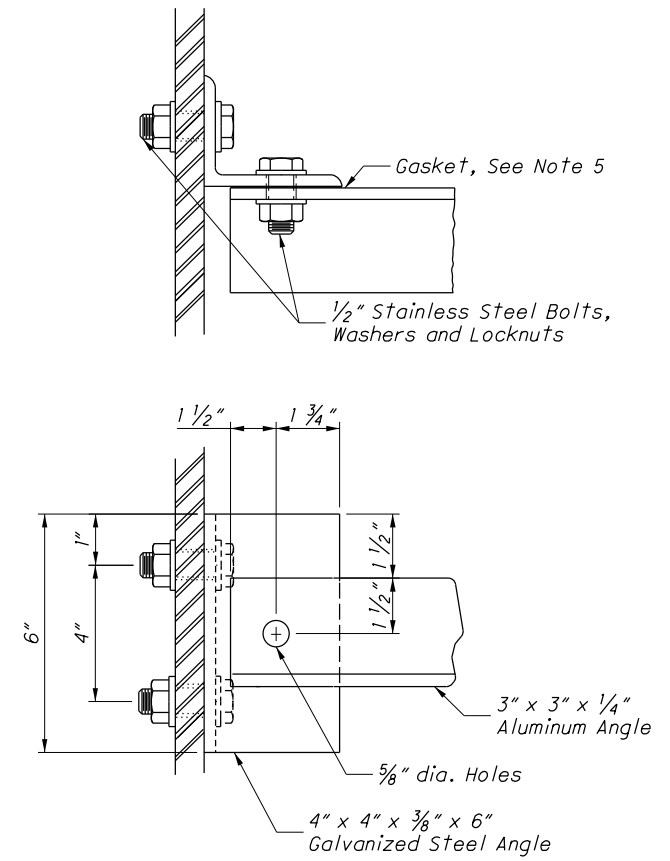
NOTES:

1. This support is intended for use with concrete bridge railing parapet types shown on Standard Construction Drawings (SCDs) BR-1, BR-2-98, and SBR-1-99.
2. On pre-cast concrete beam bridges, attach the angle to the beam with two 1/2" x 6" expansion double wedge anchor bolts. The proposed locations of anchors in prestressed beams shall be approved by the Engineer prior to any field drilling.
3. For sign attachment assemblies to be furnished with this support, see SCD TC-22.20.
4. Only two 3" x 3" x 1/4" (min. angle size) horizontal diagonal braces are required per sign. Attach braces to the center bolt on Z-Bar "A" and the bottom bolt of Z-Bar "B". Bolt the other ends of the braces at the corresponding elevation on the front frame member.
5. All hardware, including expansion bolts, shall be stainless steel.
6. Diagonal bracing shall be 3" x 3" x 1/4" minimum angle for all frames.
7. Prevent contact between aluminum and galvanized parts with a minimum 1/16" thick chloroprene gasket or approved equal. Also install a gasket between galvanized steel and concrete.
8. Install all frames at the same elevation by adjusting their position on Z-Bar "A" and "B", regardless of bridge slope.
9. Bolt all diagonals with one 1/2" stainless steel bolt with washers and locknuts or weld 1/4" fillet weld, minimum 4" long at each end.
10. On slab bridges or with signs 6' or less in height, mount Z-Bar "B" as low as possible on the face of the concrete.
11. For bridge clearance above roadway of less than 17', the clearance above bottom of bridge shall be 3' minimum without, or 15" minimum with, sign lighting fixtures.
12. The outer flange of the sign attachment assembly aluminum zee brackets may be oriented in either direction. However, at least one zee bracket per each individual sign shall be oriented with the outer flange in the opposite direction of the others.
13. Parapet design may vary.

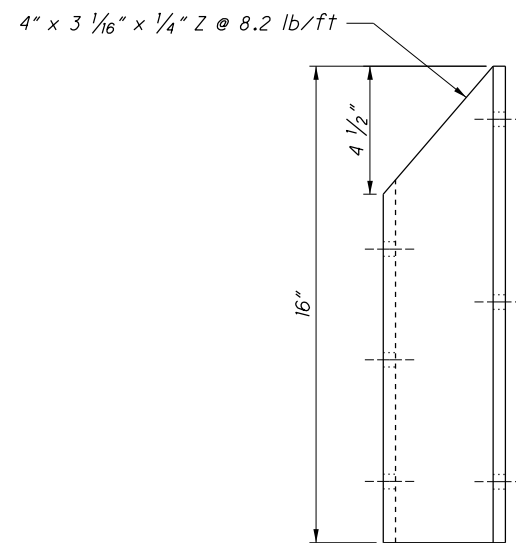
DESIGN NO.	NO. OF FRAMES	FRAME WIDTH				FRAME MEMBER SIZE				S	T	SKEW	SIGN LENGTH	DESIGN NO.
		W-1	W-2	W-3	W-4	#1	#2	#3	#4					
1	2		3'-1/2"							4'-0"	3'-10 3/8"	15°	4' to 6'	1
2	2					3" x 3" x 1/4"			6'-0"				7' to 12'	2
3	3		3'-6 5/8"	5'-1 1/4"			4" x 4" x 1/4"		2 @ 6'-0"	5'-9 1/2"			13' to 19'	3
4	4				6'-7 7/8"		6" x 4" x 3/8"	6" x 4" x 3/8"	3 @ 6'-0"				20' to 25'	4
5	2	2'-0"	3'-7 7/8"			3' x 3' x 1/4"			4'-0"	3'-7 7/8"		25°	4' to 6'	5
6	2		4'-5 1/4"				4" x 4" x 1/4"		6'-0"		5'-5 3/4"			7' to 12'
7	3			6'-10 5/8"				6" x 4" x 3/8"		2 @ 6'-0"			13' to 15'	7
8	2		4'-3 1/2"						4'-0"	3'-3 1/8"			4' to 6'	8
9	2		5'-5 3/8"						6'-0"	4'-11"	35°		7' to 11'	9
10	2		6'-7 1/8"					6" x 4" x 3/8"		8'-0"	6'-6 5/8"		12' to 15'	10



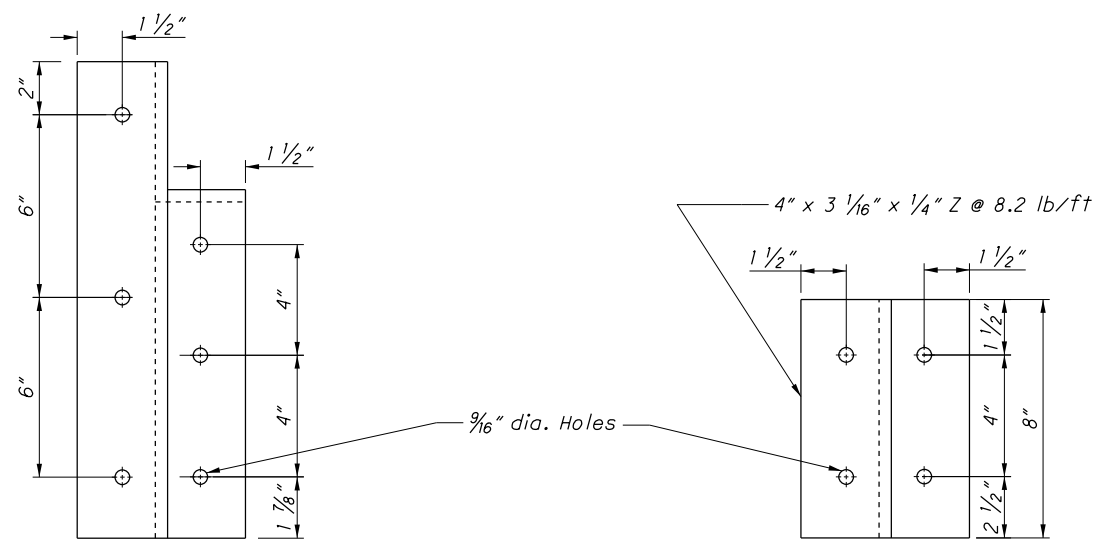
DETAIL "1"



DETAIL "2"



Z-BAR "A"
(GALVANIZED STEEL)



Z-BAR "B"
(GALVANIZED STEEL)

THIS DRAWING REPLACES TC-18-26 DATED 10-18-2013.

STANDARD ROADWAY CONSTRUCTION DRAWING
**SKewed STRUCTURE
 MOUNTed SIGN SUPPORT**

SD NUMBER
TC-18-26

**OFFICE OF
 ROADWAY
 ENGINEERING**

SDS
 ENGINEER
 H. Suter

STATE OF OHIO DEPARTMENT OF
 TRANSPORTATION ADMINISTRATOR
 Reynaldo Stargell

REVISION DATE
 01-17-2014