



- ① Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- ② For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6" min. Minimize spalling during field drilling of existing beams.
- ③ For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6" min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.
- ④ For attachment details of 3/2" pipe and W10x22, see other sections as applicable.
- ⑤ Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- ⑥ For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

Structure Number	Station	h	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (15'-0" max.)
8B0821070R001.9	172+40	13'-11"	2'-3 3/4"	2'-3/4"	3'-7 1/2"	1'-3/4"	12'-6"
8B0821070L001.9	173+02	14'-5"	2'-3 3/4"	2'-3/4"	3'-7 1/2"	1'-3/4"	13'-0"

BM-2

6-1-12

Details for mounting to integral reinforced concrete girder & Details for mounting on safety curb with surface-mount bridge rail

For Details A & B, Sections C-C, D-D and E-E, see Base Sheet BM-3.
For Details D & E, see Base Sheet BM-4.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION

BRIDGE MOUNT SIGN STRUCTURES
WALKWAY AND CONNECTION DETAILS

F.A.P. RTE. 998	SECTION 82-1R	COUNTY ST. CLAIR	TOTAL SHEETS 294	SHEET NO. 204
SCALE: SHEET NO. 2 OF 4 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

FILE NAME =	USER NAME = #USER#	DESIGNED - MDJ	REVISED -
#FILE#		DRAWN - MDJ	REVISED -
PLT SCALE = #SCALE#		CHECKED - JLR	REVISED -
PLT DATE = #DATE#		DATE - 06/29/12	REVISED -