



**NOTES:**  
 Galvanize structural steel after fabrication as per Spec. 3394.  
 Joints in roadway plate or extrusion shall be located at breaks in transverse profile and as otherwise required. Joints shall be close fit and welded. Repair after welding as per Spec. 2471.3L.  
 Structural steel shall comply with Spec. 3306, Spec. 3307 & Spec. 3309.  
 Expansion device shall be straightened to a tolerance of 1/8" in 10 ft.  
 Cap screws shall be countersunk 1/16" below top of plate.  
 Galvanize screws and nuts as per Spec. 3392.  
 See superstructure sheets for expansion device alternate at railing.  
 When expansion devices are used at ends of bridge, the bridge contractor shall furnish expansion device and gland. The roadway contractor shall install the part of the expansion device which includes the gland as shown on this sheet.

- ① Varies 18" to 24"
- ② Dimension along centerline of joint.
- ③ For roadway skews over 25° use 45°.
- ④ 2-3/4" outside radius of steel plate
- ⑤ 3/4" outside radius of steel plate
- ⑥ 5/8" max. when Snowplow Fingers are used. Use 1/8" (with 1/4" max.) when Snowplow Fingers are not used.

S.P. 204-113-03

TITLE: <b>WATERPROOF EXPANSION DEVICE WITH SIDEWALK OR RAISED MEDIAN</b>		DES: MnDOT CHK: RLD	DR: MnDOT/GLA CHK: RLD	APPROVED: 7-2-92	Bridge No. 71517
RECORD PLAN OCT. 1993		Revised: October 15, 1982		Approved: July 16, 1982	
Sheet No. 16 of 24 Sheets					