1. Alternatively, fillet or complete penetration welds may be used at anchor studs.
2. Alternate types of anchor studs may be permitted subject to the authorization by the Engineer.
3. Joint seal assembly types of anchor studs may be permitted subject to the authorization by the Engineer.
4. Use joint at crown of roadway, of any change in transverse slope, or at changes in horizontal direction. Place other joints 24 or 36 inches apart. All joints to be painted or galvanized after fabrication.
5. Sheet neoprene shall be fabricated in one continuous piece and shall be fabricated to bend around corners. Field splices of the neoprene are not allowed.
6. Insert assembly or expansion channel for 3/4" x 1/2" bolts. Use installation bolts extended 1/2" minimum past nut and coat with bond breaker, after concrete has cured, remove installation bolts, install HD bolts and sheet neoprene.
7. Use sidewalk detail at all sidewalk joints. Use barrier detail low side at both sides if the roadway is crowned, or if the difference in elevation between the ends of the seal is 6 inches or less.
8. $a_1, a_2$ are the thermal expansion coefficients for concrete and steel respectively.
9. Anchor studs shall conform to ASTM 108.