PART SECTION A-A

2" at 60°F
1" (Typ.)
30°
Detail "A"
(Typ.)
Const. Joint
3/4" Ø x 8" Long Welded Shear Connector Stud (Typ.)
Fill Face of End Bent
5/16" Plate and 5/16" Angle (See Detail "B")
1/2" Ø Machine Bolt and Nut with 9/16" Ø hole (Shop or field drill) in top flange. Remove bolt after concrete has set.

PART PLAN

2" at 60°F
Const. Joint
Gutter Line
Fill Face of End Bent
Working Point
Angle 3 1/2 x 5 x 1/2
3/4" Ø x 8" Long Welded Shear Connector Studs alternately spaced at about 9" cts. (Typ.)
Drill 3/4" Ø concrete vent holes at about 12" cts. (On roadway face of angle) (Typ.)
Bend Line
5/16" Plate (See Detail "B")
℄ Steel Girder
Angle 3 1/2 x 3 1/2 x 5/16 x 6" long (See Detail "B")
1/2" Ø Machine bolt at about 18" cts. with hardwood spacer block. Cut machine bolt flush with angles after concrete in last pour has taken initial set. (Typ.)

DETAIL "A"
(Typ.)
℄ 9/16" Ø Holes for 1/2" Ø machine bolts

DETAIL "B"
5/16" Plate
3"
Angle 3 1/2 x 3 1/2 x 5/16 x 6" long
3"
3"
1 1/2"
1 1/2"
1 1/2"
1 1/2"
2"
℄ 9/16" x 1" Slotted Holes for 1/2" Ø machine bolts

PART ELEVATION OF BARRIER CURB
2" at 60°F
B
B

PART SECTION B-B
2" at 60°F
Const. Joint
Angle 3 1/2 x 5 x 1/2
9/16" Ø Holes at abt. 18" cts. (For 1/2" Ø machine bolts)
3/4" Ø x 8" Long Welded Shear Connector Studs (Spaced alternately at abt. 9" cts.)

PART CROSS SECTION THRU EXPANSION JOINT
2" at 60°F
3 1/2"
1/2"
1/2"
5"
Silicone Sealant
Backer Rod
Drill 3/4" Ø concrete vent holes at abt. 12" cts. on roadway face of angle (Typ.)
Minimum thickness of angle shall be 1/2".

GENERAL NOTES:

Expansion joint system shall be fabricated in one section, except for stage construction and when the length is over 50 feet. A complete joint penetration groove welded splice shall be required. Welds shall be ground flush to provide a smooth surface. The expansion joint system shall be fabricated and installed to the crown and grade of the roadway.

Plan dimensions are based on installation at 60°F. The expansion gap and other dimension shall be increased or decreased ___" for ① each 10° fall or rise in temperature at installation.

Structural steel for the expansion joint system shall be ASTM A709 Grade 36. Anchors for the expansion joint system shall be in accordance with Sec 1037. Silicone Expansion Joint Sealant Systems shall be in accordance with Sec 717.

Structural steel for the expansion joint system shall be coated with a minimum of two coats of inorganic zinc primer (5 mils minimum) or galvanized in accordance with ASTM A123. Anchors need not be protected from overspray.
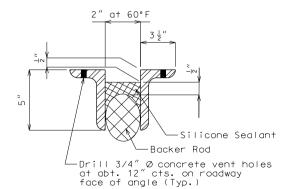
Concrete shall be forced under armor angle and around anchors. Proper consolidation of the concrete shall be achieved by localized internal vibration.

Longitudinal reinforcing steel shall be placed so that ends shall not be more than ±1" from vertical leg of angle at the expansion joint system.

STANDARD DRAWING GUIDANCE (do not show on plans):

For slab thickness < 8 1/2", check shear connector stud length for clearance to flange or diaphragm and adjust length as necessary. See Structural Project Manager.

① Installation gap temperature adjustment normal to the joint.

DATE PREPARED
9/21/2017
ROUTE ✳
STATE MO
DISTRICT BR
SHEET NO. ✳
COUNTY ✳
JOB NO. ✳
CONTRACT ID.
PROJECT NO.
BRIDGE NO. SISEJS09

DESCRIPTION
DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MoDOT (1-888-275-6636)

DETAILS OF SILICONE EXPANSION JOINT SEALANT SYSTEM AT END BENT NO.

Detailed
Checked

Note: This drawing is not to scale. Follow dimensions.
Sheet No.   of