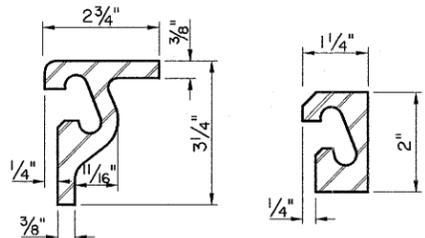


WATSON-BOWMAN/ACME  
STEEL EXTRUSIONS



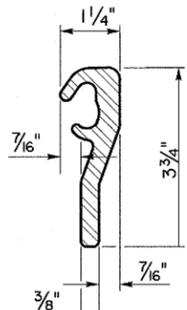
TYPE M  
TYPE A  
(CURB USE ONLY)

NEOPRENE EXTRUSIONS



TYPE SE 400

D.S.BROWN  
STEEL EXTRUSIONS



TYPE SSCM 2

NEOPRENE EXTRUSIONS



A2R SEAL

INSTALLATION :

CONDITION 1:

DECKS ON EACH SIDE OF JOINT POURED AT DIFFERENT TIME INTERVALS

- A-PLACE JOINT IN PLACE AS A UNIT (SPACER STILL IN PLACE).
- B-ADJUST TO PROPER VERTICAL POSITION.
- C-POUR DECK THAT IS TO BE POURED FIRST.
- D-PRIOR TO POURING THE ADJACENT DECK, REMOVE SPACER.
- E-JUST PRIOR TO POURING THE ADJACENT DECK, SET JOINT TO PROPER OPENING RELATIVE TO THE CURRENT TEMPERATURE FROM THE DESIGN TEMPERATURE OF 68° F

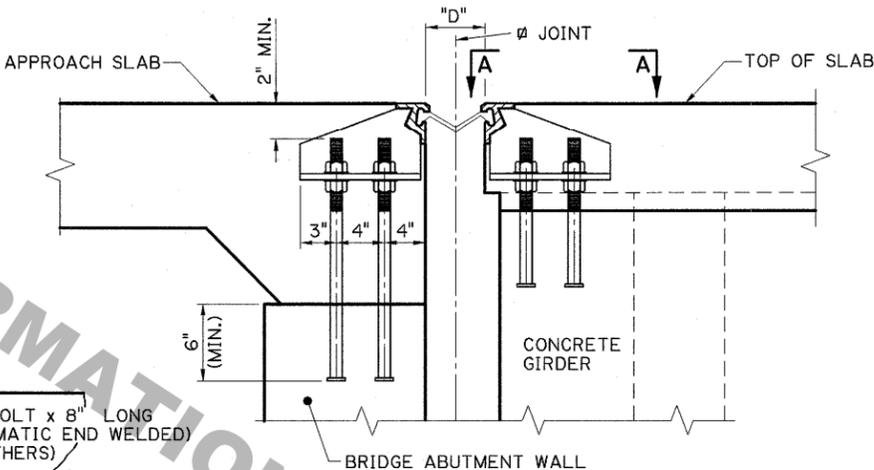
CONDITION 2:

DECKS ON EACH SIDE OF JOINT POURED SIMULTANEOUSLY.

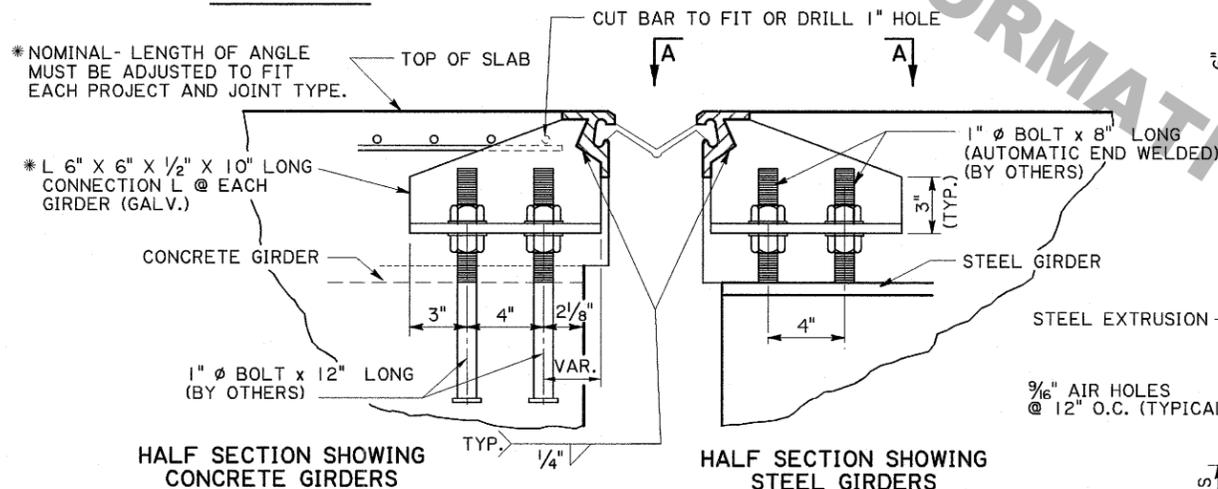
- A-PLACE JOINT IN PLACE AS A UNIT (SPACER STILL IN PLACE).
- B-ADJUST TO PROPER VERTICAL POSITION.
- C-PRIOR TO POURING DECKS, REMOVE SPACER
- D-JUST PRIOR TO POURING DECKS, SET JOINT TO PROPER OPENING RELATIVE TO THE CURRENT TEMPERATURE, FROM THE DESIGN TEMPERATURE OF 68° F

NOTES:

- THE FOLLOWING MATERIALS ARE TO BE PAID FOR IN THE BID PRICE PER LINEAR FOOT OF " STRIP SEAL".
  - A. NEOPRENE EXTRUSION
  - B. STEEL EXTRUSIONS
  - C. 5/8" DIAMETER STUDS
  - D. ALL STEEL PLATES REQUIRED FOR BARRIER SECTION
  - E. CAP SCREWS AND NUTS, TEMPORARY STEEL SPACER BLOCKS AND POLYURETHANE FILLER ROD.
  - F. 6" x 6" x 3/8" x 6" CONNECTION PLATES.
  - G. No. 5 REBAR AND 1/2" PLATE.
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A-709, GRADE 36 OR GRADE 50.
- THE MANUFACTURER'S RECOMMENDED CONSTRUCTION METHODS SHALL BE FOLLOWED.
- A FACTORY REPRESENTATIVE IS TO BE PRESENT DURING THE INSTALLATION OF THE JOINT.
- SHOP DETAILS OF JOINTS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.
- STEEL EXTRUSIONS SHALL BE SHIPPED IN PAIRS.
- POLYURETHANE FILLER ROD WILL BE PLACED IN STEEL EXTRUSION'S CAVITY PRIOR TO SHIPMENT. THIS ROD WILL BE REMOVED ONLY WHEN THE NEOPRENE EXTRUSION IS TO BE INSTALLED IN PLACE.
- ALL WELDS SHALL CONFORM TO AWS D1.5-95 BRIDGE STRUCTURAL WELDING CODE AND D1.4-92 REINFORCING STEEL WELDING CODE.
- WELDED SPLICES OF STEEL EXTRUSIONS SHALL BE SHOP SPLICES AND EACH PORTION OF THE EXTRUSION SHALL BE NOT LESS THAN 15 FEET IN LENGTH EXCEPT THAT ONE SECTION, NOT LESS THAN 4 FEET IN LENGTH WILL BE ALLOWED IN THE SHOULDER AREA IF REQUIRED TO MATCH THE ROADWAY CROSS SECTION. ALL SPLICES SHALL BE MADE SO AS TO OCCUR OUTSIDE THE WHEEL PATHS. (SEE DETAIL ON SHEET 2 OF 2.) IF A SECTION LESS THAN 15 FEET IS USED, THE CONNECTION STUDS WILL BE SPACED AT 9 INCH ALTERNATE CENTERS. ALL SPLICE LOCATIONS WILL BE SHOWN ON THE SHOP DRAWINGS. DRAWINGS WILL NOT BE APPROVED UNLESS THE LOCATIONS ARE DESIGNATED ON THE DRAWINGS. THE LOCATIONS MAY BE DESIGNATED WITH A +/- 6 INCH TOLERANCE. WELDED SPLICES ARE ALSO REQUIRED WHERE TWO DIFFERENT STEEL SHAPES ARE JOINED AT THE CURB AREA AND WHERE THE CURB UNITS ARE TURNED UP. WELDED SPLICES WILL BE BUTT SPLICES AND CARE SHALL BE TAKEN NOT TO ALLOW WELD METAL TO INVADE THE GLAND CAVITY. WELD MATERIAL IN THE CAVITY WILL BE CAUSE FOR REJECTION. CONNECTION STUDS WILL BE LOCATED 3 INCHES EITHER SIDE OF WELDED SPLICES.
- NEOPRENE EXTRUSIONS HAVE TO BE MANUFACTURED AS A CONTINUOUS PIECE WITH ONLY ONE (1) SHOP SPLICE PER JOINT ALLOWED WHEN LENGTH EXCEEDS 50 FEET. THE NEOPRENE STRIP SEAL SHALL BE AN EXTRUDED NEOPRENE MATERIAL CONFORMING TO ASTM DESIGNATION: D2628 MODIFIED TO OMIT RECOVERY TEST TO REVISE THE REQUIRED TYPE A HARDNESS TO 55 -5/+10 AS DETERMINED BY ASTM D2240.
- SEAL SHALL BE BONDED TO STEEL WITH A PRE-MIXED LUBRICATING ADHESIVE SOLUTION WHICH SHALL BE USED TO FACILITATE THE SEAL INSTALLATION. THIS LUBRICANT ADHESIVE SHALL BE SELECTED FROM THE LA. DOT QUALIFIED PRODUCTS LIST, AS MAINTAINED BY THE DEPARTMENT'S MATERIALS SECTION. THE LUBRICANT SHOULD FLOW FREELY AND EVENLY COAT THE SEAL AND JOINT FACE. THE LUBRICANT SHOULD COMPLETELY COAT THE SEAL AND STEEL EXTRUSION CAVITY WHICH REMAIN IN CONTACT.
- AFTER METAL SURFACES HAVE BEEN PREPARED FOR PAINTING AND PRIOR TO PAINTING, THE POLYURETHANE FILLER RODS ARE TO BE PLACED IN THE EXTRUSIONS. ALL METAL SURFACES NOT EMBEDDED IN CONCRETE SHALL BE SHOP PAINTED WITH TWO COATS OF AN APPROVED ZINC PAINT SYSTEM FROM QPL NO. 78, EXCEPT FOR THE STEEL PLATES REQUIRED FOR THE BARRIER SECTION, WHICH SHALL RECEIVE THREE COATS. THE STEEL EXTRUSION CAVITY MAY NOT BE PAINTED. IF PAINTED, CARE SHALL BE TAKEN THAT A PAINT BUILD-UP DOES NOT OCCUR IN THE BOTTOM.
- IN LIEU OF PAINTING, EXPANSION JOINT ASSEMBLIES MAY BE HOT-DIP GALVANIZED AFTER FABRICATION AND ALL SHOP WELDING OPERATIONS, (INCLUDING STUD WELDING) HAVE BEEN COMPLETE, IN ACCORDANCE WITH SECTION 811 OF THE STANDARD SPECIFICATIONS. CARE SHALL BE TAKEN THAT A COATING BUILD-UP DOES NOT OCCUR IN THE BOTTOM OF THE CAVITY.
- JOINTS UP TO FIFTY FOUR (54') FEET IN LENGTH SHALL BE DELIVERED TO THE JOB SITE IN ONE PIECE. JOINTS OVER FIFTY FOUR (54') FEET IN LENGTH MAY HAVE PROVISIONS FOR A FIELD SPLICE IN THE STEEL EXTRUSIONS PROVIDING THE SPLICE IS PERFORMED IN SHOP LIKE CONDITIONS IN THE PRESENCE OF A STATE INSPECTOR AND MEET THE REQUIREMENTS OF NOTE 8 ABOVE. ALL OTHER WELDED SPLICES OF STEEL EXTRUSIONS SHALL BE SHOP SPLICES.
- ALL STUDS SHALL BE BENT PRIOR TO WELDING TO THE JOINT. NO FIELD BENDING OF STUDS WILL BE ALLOWED.
- ALL LABOR, MATERIALS, EQUIPMENT, MANUFACTURER SUPERVISION AND INCIDENTALS PERTAINING TO THE INSTALLATION OF THE JOINT SHALL BE PAID FOR UNDER ITEM STRIP SEAL JOINTS, PER LINEAR FOOT. MEASUREMENT SHALL BE ALONG THE CENTERLINE OF THE JOINT, FROM GUTTER LINE TO GUTTER LINE ONLY, UNLESS SPECIFIED OTHERWISE IN THE PLANS.



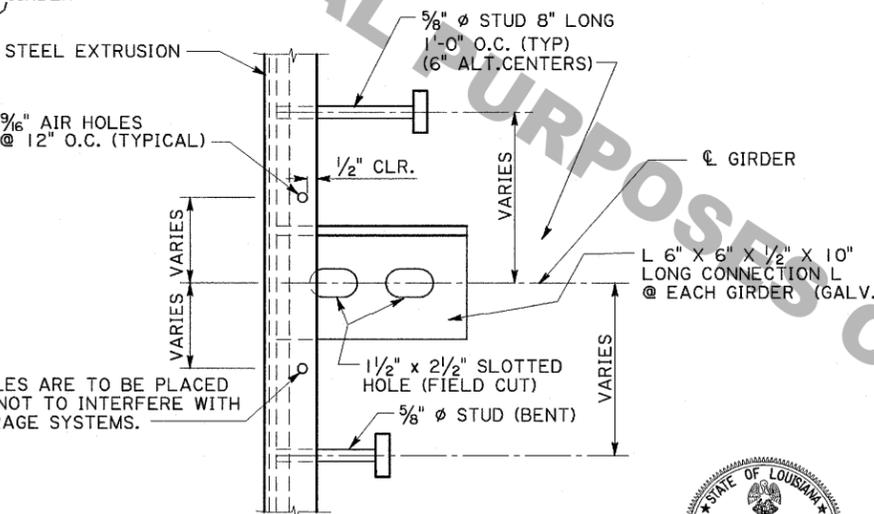
TYPICAL SECTION AT BRIDGE END



HALF SECTION SHOWING CONCRETE GIRDERS

HALF SECTION SHOWING STEEL GIRDERS

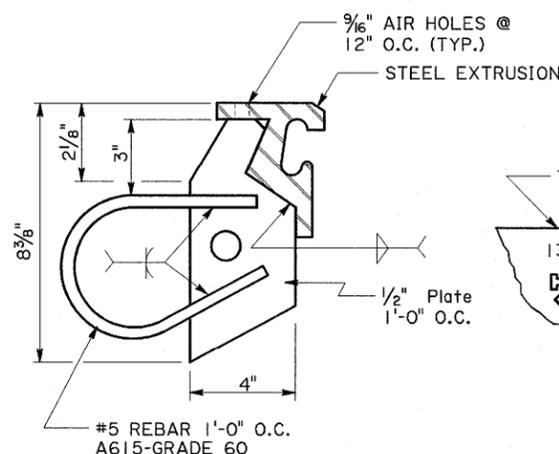
TYPICAL SECTION AT GIRDERS



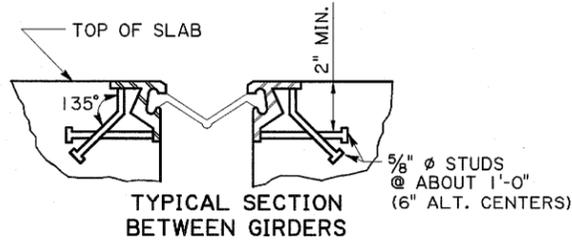
SECTION A-A



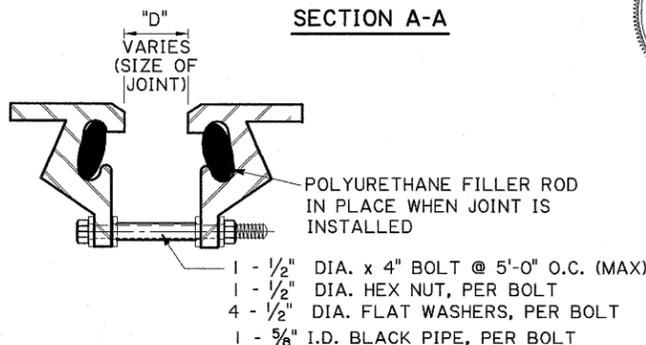
JENAN NAKLEH  
REG. No. 18692  
REGISTERED  
PROFESSIONAL ENGINEER  
IN  
CIVIL ENGINEERING  
New Nakleh  
1/8/2009



ALTERNATE SECTION BETWEEN GIRDERS



TYPICAL SECTION BETWEEN GIRDERS



TYPICAL SHIPPING SECTION

SHEET NUMBER: \_\_\_\_\_

DESIGNED BY: J. NAKHLEH

CHECKED BY: A. NWAJIOR

DRAWN BY: C. DELATOUR

DATE: 03-14-02

PROJECT: \_\_\_\_\_

STATE: \_\_\_\_\_

PARISH: \_\_\_\_\_

FEDERAL PROJECT: \_\_\_\_\_

DATE: 03-14-02

SHEET: 1

OF: 2

REVISION DESCRIPTION: \_\_\_\_\_

NO. \_\_\_\_\_

DATE \_\_\_\_\_

BY \_\_\_\_\_

STRIP SEAL JOINT DETAILS (4')

SSJ-4

SPECIAL DETAILS

BRIDGE AND STRUCTURAL DESIGN