

LAYING OUT TRANSVERSE JOINTS

UNLESS SHOWN ON BRIDGE PLANS

USE A TRANSVERSE JOINT WHEN BARREL LENGTH IS OVER 80 FEET. USE ADDITIONAL JOINTS TO LIMIT CUT SECTION LENGTH AND END SECTION BARREL LENGTH MEASURED ALONG CENTERLINE OF CULVERT TO 50 FEET.

MINIMUM END SECTION LENGTH SHALL BE 3 FEET MEASURED ALONG THE SHORTEST WALL FROM THE INSIDE FACE OF HEADWALL TO THE TRANSVERSE JOINT.

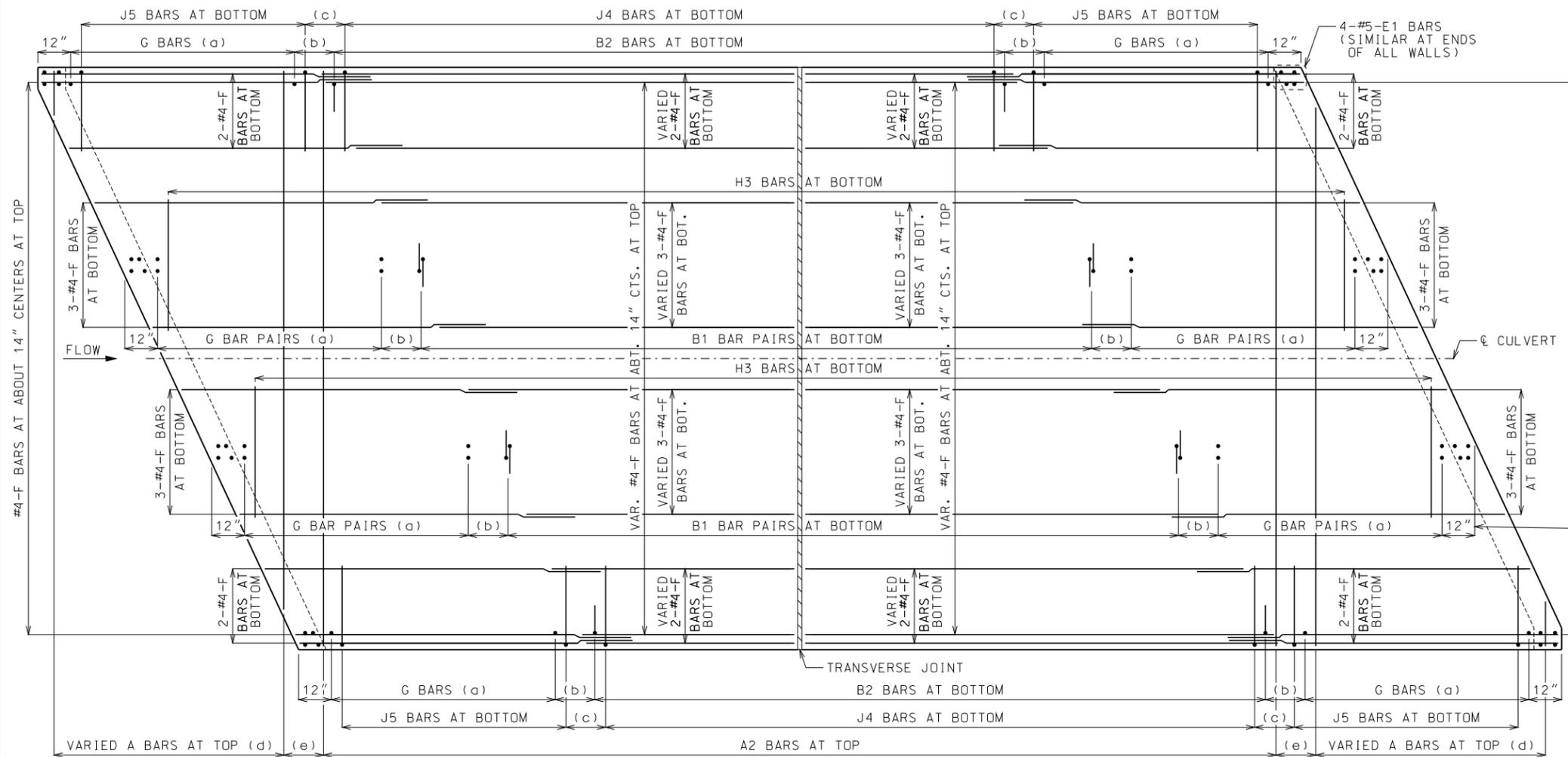
TO AVOID LOCATING TRANSVERSE JOINTS UNDER A TRAVELED WAY WITH DESIGN FILLS 2 FEET OR LESS THE FOLLOWING SHALL APPLY:

- BARREL LENGTH UP TO 90 FEET WITHOUT A TRANSVERSE JOINT
- CUT SECTION LENGTHS UP TO 60 FEET

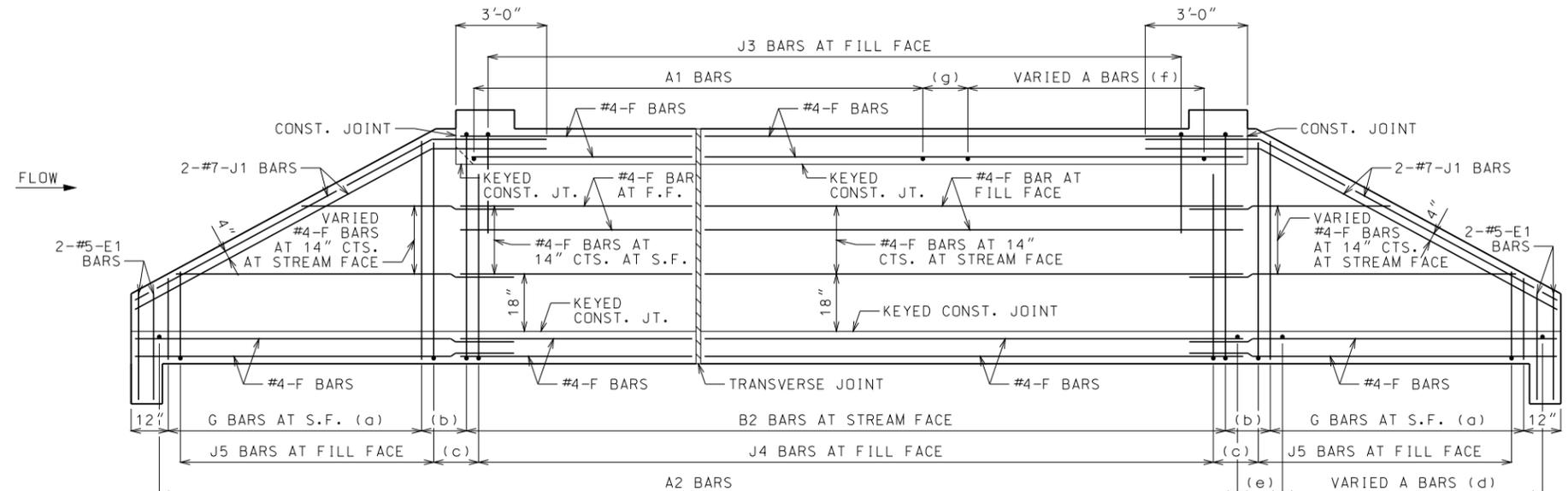
WHEN BARREL AND CUT SECTION LENGTH RESTRICTIONS REQUIRE TRANSVERSE JOINTS TO BE LOCATED UNDER A TRAVELED WAY WITH DESIGN FILLS 2 FEET OR LESS, THE JOINTS SHALL BE LOCATED TO MINIMIZE THE LENGTH OF JOINT UNDER THE TRAVELED WAY.

TRAVELED WAY IS THE ROADWAY WIDTH MINUS SHOULDER WIDTHS.

FOR CUT SECTION DETAILS, SEE 703.86.



PLAN OF BOTTOM SLAB



ELEVATION OF EXTERIOR WALL

J1 BARS MAY BE BENT IN FIELD OR SHOP.

END OF WALL (TYP.) (NOT SHOWN)

GENERAL NOTES:

FOR SECTIONS THRU BARREL, WINGS AND HEADWALLS, SEE SHEET 3 OF 3. FOR BAR SIZES, SPACING AND DIMENSIONS OF ALL REINFORCEMENT EXCEPT J5 BARS, SEE 703.87. FOR J5 BARS, SEE 703.37.

CONSTRUCTION JOINT KEY NOT SHOWN FOR CLARITY IN PLAN AND ELEVATION, SEE SHEET 3 OF 3 FOR DETAILS.

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1 1/2".

LAP LONGITUDINAL BARS A MINIMUM OF 23" AT SPLICES.

BEVELED HEADWALL SHALL BE LOCATED AT UPSTREAM END.

(a) SAME SIZE AND SPACING AS ADJACENT B BARS

(b) VARIES, 12" MAXIMUM

(c) J4 BAR SPACING

(d) SAME SIZE AND SPACING AS A2 BARS

(e) A2 BAR SPACING

(f) SAME SIZE AND SPACING AS A1 BARS

(g) A1 BAR SPACING



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



CONCRETE TRIPLE BOX CULVERT

SKEW: LEFT ADVANCE
WINGS: STRAIGHT

REINFORCEMENT

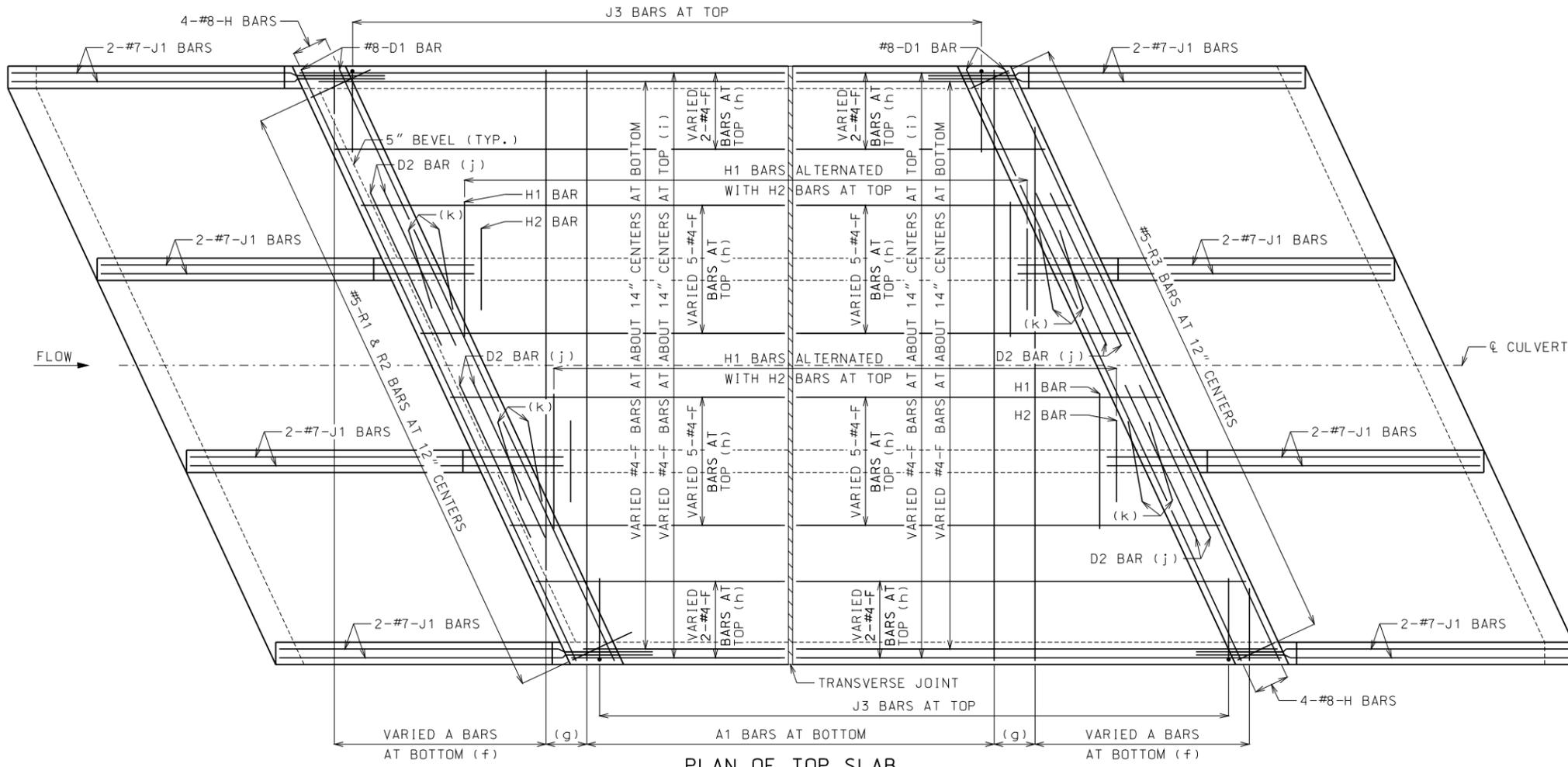
DATE EFFECTIVE: 12/01/2011
DATE PREPARED: 9/29/2011

703.82H

SHEET NO.
1 OF 3

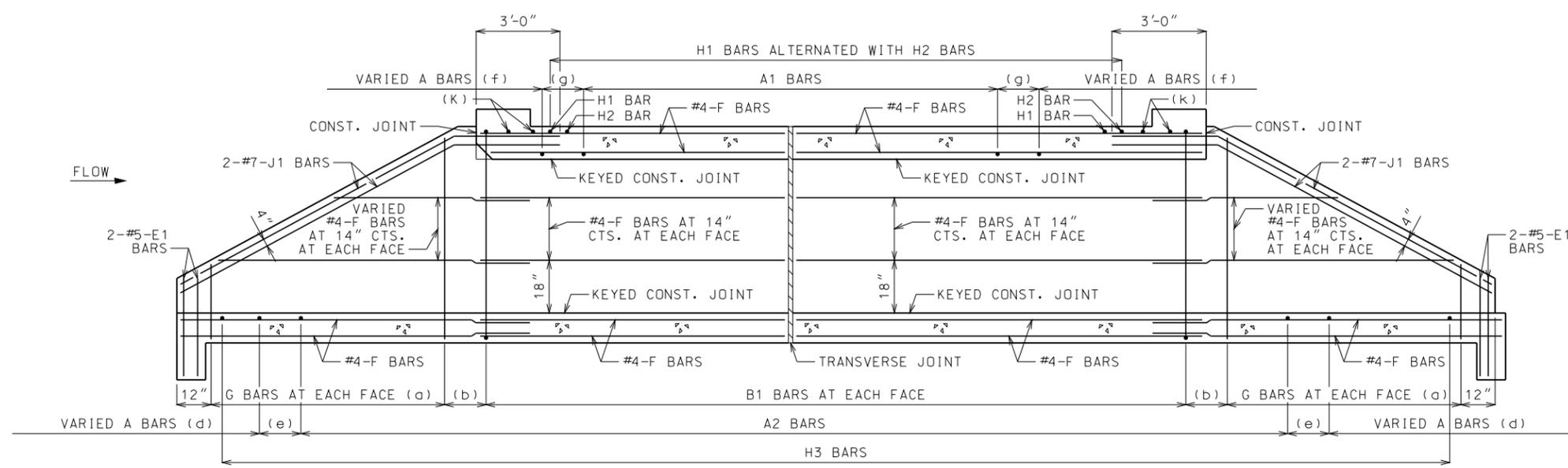
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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PLAN OF TOP SLAB
 B BARS IN WALLS ARE NOT SHOWN FOR CLARITY.
 FOR PLACEMENT, SEE SHEET 1 OF 3.

- GENERAL NOTES:**
- FOR SECTIONS THRU BARREL, WINGS AND HEADWALLS, SEE SHEET 3 OF 3. FOR BAR SIZES, SPACING AND DIMENSIONS OF ALL REINFORCEMENT EXCEPT J5 BARS, SEE 703.87. FOR J5 BARS, SEE 703.37.
 - CONSTRUCTION JOINT KEY NOT SHOWN FOR CLARITY IN PLAN AND SECTION, SEE SHEET 3 OF 3 FOR DETAILS.
 - DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.
 - MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1 1/2".
 - LAP LONGITUDINAL BARS A MINIMUM OF 23" AT SPLICES.
 - BEVELED HEADWALL SHALL BE LOCATED AT UPSTREAM END.
 - (a) SAME SIZE AND SPACING AS ADJACENT B BARS
 - (b) VARIES, 12" MAXIMUM
 - (c) NOT SPECIFIED ON THIS SHEET
 - (d) SAME SIZE AND SPACING AS A2 BARS
 - (e) A2 BAR SPACING
 - (f) SAME SIZE AND SPACING AS A1 BARS
 - (g) A1 BAR SPACING
 - (h) FOR DESIGN FILLS OVER 2'-0"
 - (i) FOR DESIGN FILLS 2'-0" OR LESS
 - (j) NOT REQUIRED FOR CLEAR SPANS ≤ 10'-0"
 #8 FOR CLEAR SPAN > 10'-0"
 #9 FOR CLEAR SPAN > 13'-0"
 - IF REQUIRED, THE MINIMUM LENGTH EACH SIDE OF C WALL SHALL BE THE GREATER OF 48 BAR DIAMETERS OR 1/4 CLEAR SPAN. THE CLEAR SPAN IS PARALLEL TO LONG DIRECTION OF HEADWALL.
 - (k) H2 BARS AS REQUIRED, QUANTITY OF BARS VARIES WITH SKEW.



SECTION NEAR INTERIOR WALL
 J1 BARS MAY BE BENT IN FIELD OR SHOP.

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	CONCRETE TRIPLE BOX CULVERT SKEW: LEFT ADVANCE WINGS: STRAIGHT REINFORCEMENT	
		DATE EFFECTIVE: 12/01/2011 DATE PREPARED: 9/29/2011

