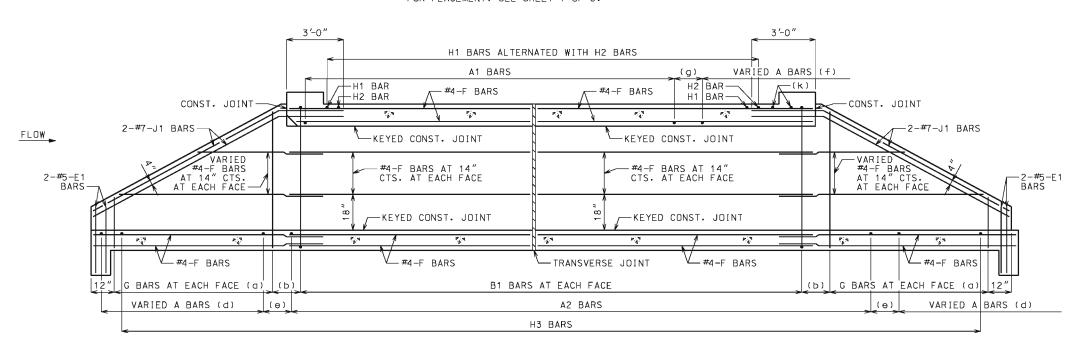


B BARS IN WALLS ARE NOT SHOWN FOR CLARITY, FOR PLACEMENT, SEE SHEET 1 OF 3.



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

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 ½".

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 & WALL SHALL BE THE GREATER OF 48 BAR DIAMETERS OR \$\frac{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.



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: FLARED

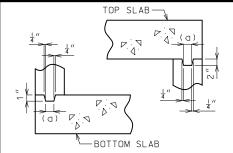
REINFORCEMENT

DATE EFFECTIVE: DATE PREPARED:

12/01/2011 5/13/2015 **70**:

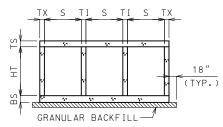
703.83H

SHEET NO.

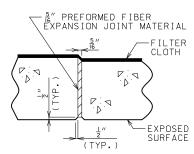


KEYED CONSTRUCTION JOINT

(a) APPROXIMATELY ONE-THIRD OF WALL



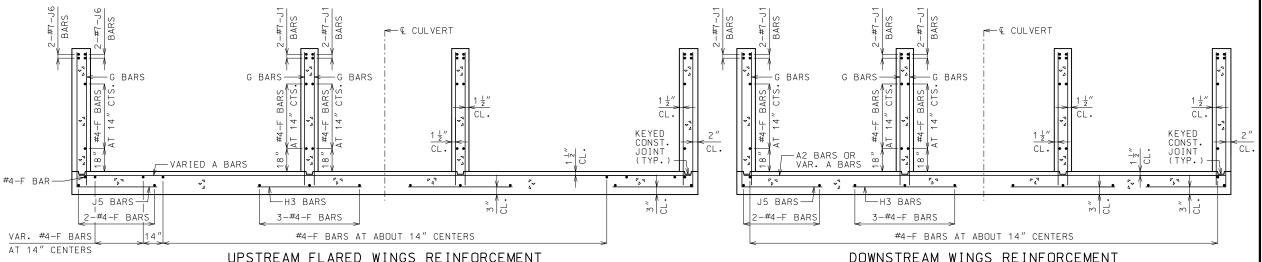
GRANULAR BACKFILL LIMITS AND MEMBER DIMENSIONS



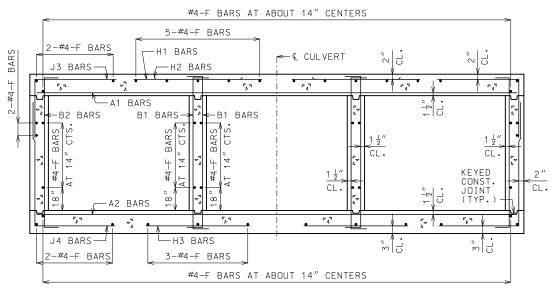
TRANSVERSE JOINT THRU BARREL

PREFORMED FIBER EXPANSION JOINT MATERIAL IN ACCORDANCE WITH SEC 1057 SHALL BE SECURELY STITCHED TO ONE FACE OF THE CONCRETE WITH 10 GAGE COPPER WIRE OR 12 GAGE SOFT DRAWN GALVANIZED STEEL WIRE.

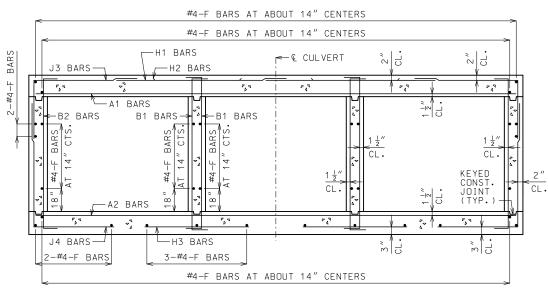
FILTER CLOTH 3 FEET IN WIDTH AND DOUBLE
THICKNESS SHALL BE CENTERED ON TRANSVERSE JOINTS
IN TOP SLAB AND SIDEWALLS WITH EDGES SEALED WITH
MASTIC OR TWO SIDED TAPE. FILTER CLOTH SHALL BE MASTIC OR TWO SIDED TAPE. FILTER CLOTH SHALL BE A SEPARATION GEOTEXTILE IN ACCORDANCE WITH SEC 1011. COST OF FURNISHING AND INSTALLING FILTER CLOTH WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR OTHER ITEMS.



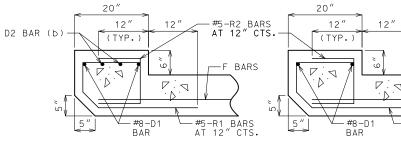
UPSTREAM FLARED WINGS REINFORCEMENT



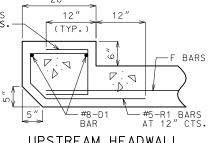
BARREL REINFORCEMENT FOR DESIGN FILLS OVER 2'-0"



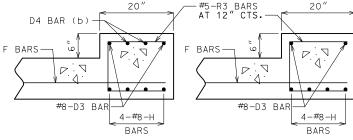
BARREL REINFORCEMENT FOR DESIGN FILLS 2'-0" OR LESS



UPSTREAM HEADWALL REINFORCEMENT NEAR INTERIOR WALL



UPSTREAM HEADWALL REINFORCEMENT NEAR MIDSPAN



REINFORCEMENT NEAR INTERIOR WALL

DOWNSTREAM HEADWALL DOWNSTREAM HEADWALL REINFORCEMENT NEAR MIDSPAN

IF D2 AND D4 BARS ARE REQUIRED, THE MINIMUM LENGTH EACH SIDE OF © WALL SHALL BE THE GREATER OF 48 BAR DIAMETERS OR ¼ CLEAR SPAN. THE CLEAR SPAN IS PARALLEL TO LONG DIRECTION OF HEADWALL.

GENERAL NOTES:

FOR MEMBER THICKNESS AND FOR BAR SIZES, SPACING AND DIMENSIONS OF ALL REINFORCEMENT EXCEPT J5 BARS, SEE 703.87. FOR J5 BARS, SEE 703.37.

BARREL AND WINGS SECTIONS ARE SYMMETRICAL ABOUT AND NORMAL TO © CULVERT. HEADWALL SECTIONS ARE NORMAL TO LONG DIRECTION OF HEADWALL.

DRAWING NOT TO SCALE. FOLLOW

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE $1\frac{1}{2}$ ".



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CONCRETE TRIPLE BOX CULVERT

SKEW: LEFT ADVANCE WINGS: FLARED

SECTIONS

DATE EFFECTIVE: DATE PREPARED:

703.83H

SHEET NO.

(b) NOT REQUIRED FOR CLEAR SPANS ≤ 10'-0" #8 FOR CLEAR SPAN > 10'-0' #9 FOR CLEAR SPAN > 13'-0'

01/01/2021

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