

Job Name: 24-1643B - KYTC McCracken Co. Call 200 (ID 241301)  
Job Location: Paducah, KY  
Contractor: Jim Smith Contracting Co, LLC

Plant: 100

5/28/2026 7:52:52 AM

Tech: J. Horsley

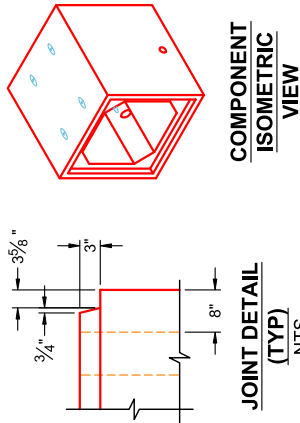
PC: C. Goff



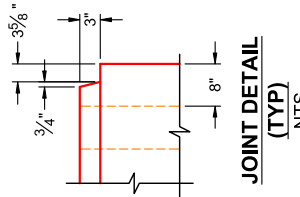
Structure ID: St. 45+00 (PC 18)

P1 BC048048-08WLF-9H

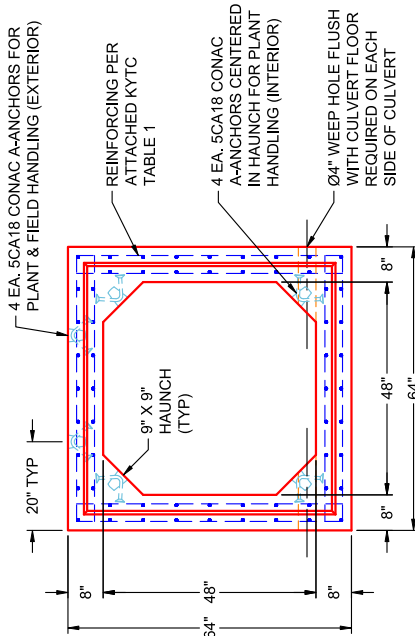
BOX CULVERT (08W/08F/08T) G/T



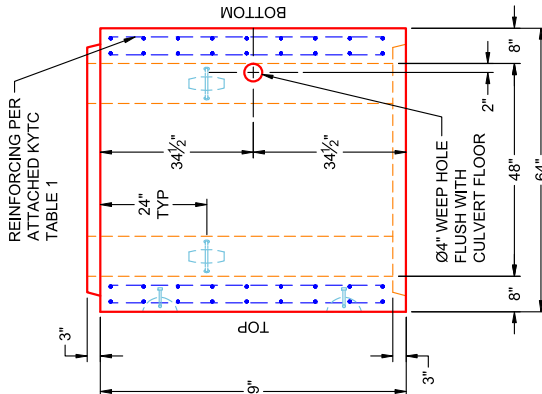
COMPONENT  
ISOMETRIC  
VIEW



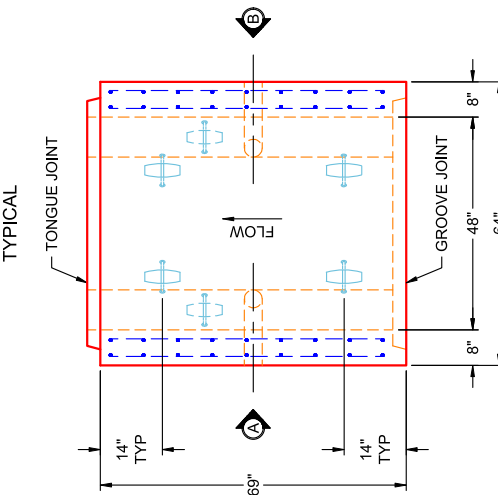
JOINT DETAIL  
(TYP)  
NTS



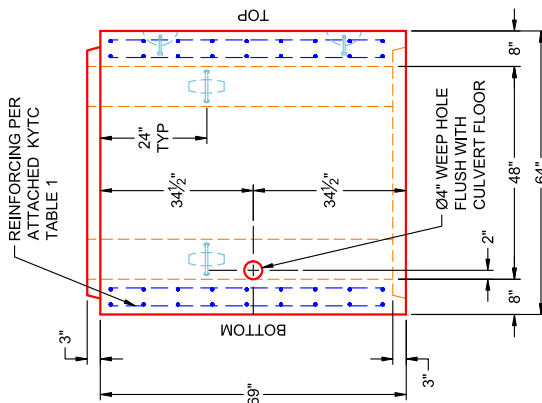
END VIEW  
TYPICAL



VIEW B  
PC 18  
(UPRIGHT IN MOLD)



PLAN VIEW  
PC 18  
(UPRIGHT IN MOLD)



VIEW A  
PC 18  
(UPRIGHT IN MOLD)

GENERAL NOTES:

- PER SECTION 605 OF KYTC STANDARD SPECS FOR ROAD & BRIDGE CONSTRUCTION  
- KYTC STAMP REQUIRED  
- WEEP HOLES REQUIRED
- LOAD REQUIREMENTS: KY-HL93 (KY TABLE 1)
- REINFORCEMENT PER ATTACHED KYTC TABLE 1
- COVER DEPTH: 0' - 7'
- CONCRETE: 5,000 PSI AT 28 DAYS
- JOINT SEALANT: 1" BUTYL MASTIC (CS-102)  
EXTERIOR JOINT WRAP: 12" WIDE (CS-212)
- WEIGHT: 4' X 4' RCBC = 1,968 LBS / LF  
(5-9' LONG SECTION = 11,314 LBS)

PRODUCTION WORK ORDER



QUALITY CONTROL CHECKLIST

- ☐ ALL DIMENSIONS CORRECT.
- ☐ LIFTERS INSTALLED INSIDE.
- ☐ RECESS WITH HAUNCHES CORRECT.
- ☐ REINFORCING CORRECT.
- ☐ SURFACE QUALITY ACCEPTABLE.
- ☐ LIFTERS INSTALLED OUTSIDE.
- ☐ PRODUCT SQUARE.

PRODUCT I.D.: BC048048-08WLF-9H

PRODUCT VIEW: RIGHT SIDE UP

PLANT: BEAVER DAM, KY

WEIGHT: 11,314 LBS

TOP SECTION JOINT: TONGUE

BASE SECTION JOINT: GROOVE

QC CHECK INITIALS:

DESCRIPTION: 48" X 48" X 69" BOX CULVERT (8" WALLS & 9" HAUNCH)

CUSTOMER: JIM SMITH CONTRACTING

PROJECT: KYTC MCCracken CO. CALL 200 (ID 241301)

STRUCTURE: ST. 45+00 (PC 18)

ORDER NO: 24-1643B

PE: J.H. ROSS

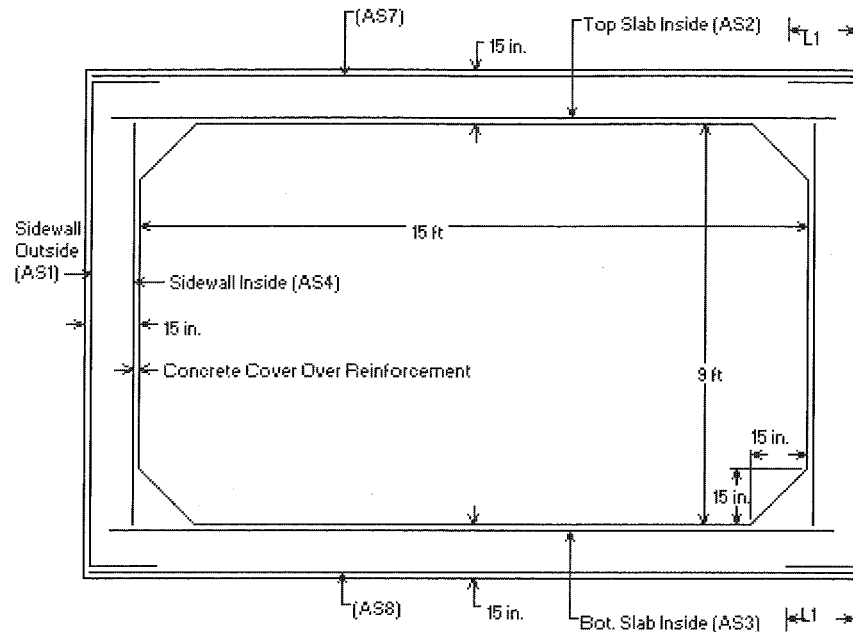
DRAWING: K. CARDWELL

DATE: 05/28/26

SCALE: NTS

PG. 1 OF 1

THIS DRAWING IS THE PROPERTY OF INFRASTRUCTURE PRECAST, INC. ANY USE OR DUPLICATION OF THIS DRAWING WITHOUT PRIOR AUTHORIZATION IS STRICTLY PROHIBITED.



- \* <L1> is Splice Length
- \* (AS7) is Top Slab Outside
- \* (AS8) is Bottom Slab Outside
- \* See Box Culvert Design Summary Sheet for transverse and distribution reinforcement, as required.
- \* For sidewall thicknesses of 6 in. and above, extend AS2 and AS3 a min. of 4 in. beyond the inside face of the sidewall. For thicknesses less than 6 in., extend AS2 and AS3 at least to within 1-1/2 in. of the outside face of the sidewall.

Notes:

- 1) Other reinforcement schemes that provide the required reinforcement areas at all locations identified in the program output are acceptable.
- 2) Longitudinal reinforcement is not shown for clarity, see AASHTO M259 for longitudinal reinforcement and for additional requirements.

**KY Table 1**

*Precast Culvert KYHL-93 Design Table*

| Design Earth Cover, ft |      | As1   | As2   | As3   | As4  | As7  | As8   | As5  | As6  |
|------------------------|------|-------|-------|-------|------|------|-------|------|------|
| 4x3x5                  | 0<2* | 0.18  | 0.705 | 0.199 | 0.12 | 0.18 | 0.144 | 0.18 | 0.18 |
|                        | 2<3  | 0.198 | 0.309 | 0.27  | 0.12 | 0.12 | 0.12  |      |      |
|                        | 3-5  | 0.123 | 0.191 | 0.193 | 0.12 | 0.12 | 0.12  |      |      |
|                        | 10   | 0.12  | 0.142 | 0.146 | 0.12 | 0.12 | 0.12  |      |      |
|                        | 15   | 0.12  | 0.193 | 0.197 | 0.12 | 0.12 | 0.12  |      |      |
|                        | 20   | 0.152 | 0.249 | 0.253 | 0.12 | 0.12 | 0.12  |      |      |
|                        | 25   | 0.187 | 0.306 | 0.31  | 0.12 | 0.12 | 0.12  |      |      |
|                        | 30   | 0.225 | 0.366 | 0.37  | 0.12 | 0.12 | 0.12  |      |      |
|                        | 35   | 0.263 | 0.428 | 0.432 | 0.12 | 0.12 | 0.12  |      |      |

\*top slab 7.5", bottom slab 6"

| Design Earth Cover, ft |      | As1   | As2   | As3   | As4  | As7  | As8   | As5  | As6  |
|------------------------|------|-------|-------|-------|------|------|-------|------|------|
| 4x4x5                  | 0<2* | 0.18  | 0.745 | 0.22  | 0.12 | 0.18 | 0.144 | 0.18 | 0.18 |
|                        | 2<3  | 0.154 | 0.314 | 0.276 | 0.12 | 0.12 | 0.12  |      |      |
|                        | 3-5  | 0.12  | 0.215 | 0.219 | 0.12 | 0.12 | 0.12  |      |      |
|                        | 10   | 0.12  | 0.155 | 0.162 | 0.12 | 0.12 | 0.12  |      |      |
|                        | 15   | 0.12  | 0.21  | 0.217 | 0.12 | 0.12 | 0.12  |      |      |
|                        | 20   | 0.124 | 0.269 | 0.276 | 0.12 | 0.12 | 0.12  |      |      |
|                        | 25   | 0.152 | 0.331 | 0.339 | 0.12 | 0.12 | 0.12  |      |      |
|                        | 30   | 0.182 | 0.396 | 0.403 | 0.12 | 0.12 | 0.12  |      |      |
|                        | 35   | 0.213 | 1.205 | 0.471 | 0.12 | 0.12 | 0.12  |      |      |

\*top slab 7.5", bottom slab 6"

| Design Earth Cover, ft |      | As1   | As2   | As3   | As4   | As7   | As8   | As5   | As6   |
|------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 5x3x6                  | 0<2* | 0.192 | 0.726 | 0.201 | 0.144 | 0.6   | 0.168 | 0.192 | 0.192 |
|                        | 2<3  | 0.224 | 0.288 | 0.232 | 0.144 | 0.144 | 0.144 |       |       |
|                        | 3-5  | 0.16  | 0.205 | 0.19  | 0.144 | 0.144 | 0.144 |       |       |
|                        | 10   | 0.144 | 0.164 | 0.168 | 0.144 | 0.144 | 0.144 |       |       |
|                        | 15   | 0.174 | 0.224 | 0.228 | 0.144 | 0.144 | 0.144 |       |       |
|                        | 20   | 0.223 | 0.288 | 0.292 | 0.144 | 0.144 | 0.144 |       |       |
|                        | 25   | 0.276 | 0.354 | 0.359 | 0.144 | 0.144 | 0.144 |       |       |
|                        | 30   | 0.331 | 0.423 | 0.427 | 0.144 | 0.144 | 0.144 |       |       |
|                        | 35   | 0.389 | 1.349 | 1.168 | 0.144 | 0.144 | 0.144 |       |       |

\*top slab 8", bottom slab 7"

