

Job Name: 25-4665 - Buckhorn WTP

Job Location: Hazard, KY

Contractor: Smith Contractors, Inc.

Plant: 100

4/9/2026 3:44:44 PM

Tech: J. Horsley

PC: E. Bradley



Structure ID: 54665 (4)

P3 MH144RSVF

MH RISER Custom Ht T/G

P10) 48" x 36" - HATCH (CAST FLUSH) - 0"

P9) 144" - MH FLAT TOP w/(2) 48"x36" & (1) 30"x30" Hatches F/G - 18"

P8) 144" - MH RISER Custom Ht T/G - 81"

P7) 144" - MH RISER Custom Ht T/G - 81"

P6) 144" - MH RISER Custom Ht T/G - 81"

P5) 144" - MH RISER Custom Ht T/G - 81"

P4) 144" - MH RISER Custom Ht T/G - 74"

P3) 144" - MH RISER Custom Ht T/G - 74"

P2) 144" - MH RISER Custom Ht T/F - 74"

P1) 144" - P.I.P. BY OTHERS - BTM SLAB F/n - 0"

7) JOINT WRAP - 12" WD x 144" MAC WRAP

1) SECONDARY POUR - Intermediate Slab (In Riser P5)

1) This Structure Includes a Cast-in Item - Hatches (Supplied by Others)

4) Stainless Steel Strap - 3"W x 24"L Stainless Steel Strap

8) 144" - Conseal CS-231 1.00" (Double)

1) A-Lok - 0630

0 lb

19644 lb

43581 lb

43581 lb

43581 lb

43581 lb

39815 lb

39815 lb

39815 lb

39445 lb

0 lb

0 lb

13500 lb

0 lb

0 lb

0 lb

0 lb

1 lb

Structure Total: 326544 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,500 PSI AT 28 DAYS

3. REINFORCEMENT: PER ASTM A615

4. NO STEPS

5. 2 EA. HALLIDAY W1R 48" X 36" HATCHES & 1 EA. HALLIDAY W1R 30" X 30" HATCH SUPPLIED BY OTHERS - TO BE CAST INTO FLAT LID

6. LADDER SUPPLIED BY OTHERS

7. 4 EA. 3"W X 24"L STAINLESS STEEL STRAPS SUPPLIED BY ICAST

Rim: 755'

Rim to Invert: 46'

Slack: 0"

Sump: 12"

Step Position:

| Position | Elev | Angle | Ext. (cw) | Pipe | Pipe OD | Connector | Hole | Horz Size | Up ( _ ) | Offset |
|----------|------|-------|-----------|------|---------|-----------|------|-----------|----------|--------|
| Invert 1 |      |       |           |      |         |           |      |           |          |        |
| Invert 2 |      |       |           |      |         |           |      |           |          |        |
| Invert 3 |      |       |           |      |         |           |      |           |          |        |
| Invert 4 |      |       |           |      |         |           |      |           |          |        |
| Invert 5 |      |       |           |      |         |           |      |           |          |        |
| Invert 6 |      |       |           |      |         |           |      |           |          |        |
| Invert 7 |      |       |           |      |         |           |      |           |          |        |
| Invert 8 |      |       |           |      |         |           |      |           |          |        |

RIGHT-SIDE UP VIEW (int. dimensions)

(P10)

(P9)

(P8)

(P7)

(P6)

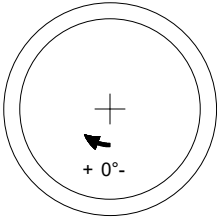
(P5)

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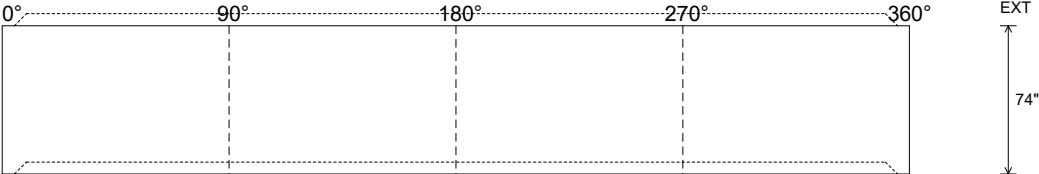
(P2)

(P1)



INSIDE WALL DIMENSIONS

(P3)



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: Groove

Wall Thickness: 13"

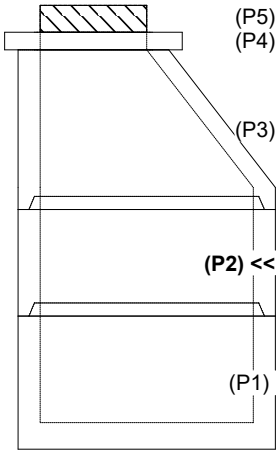
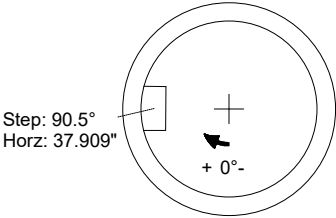
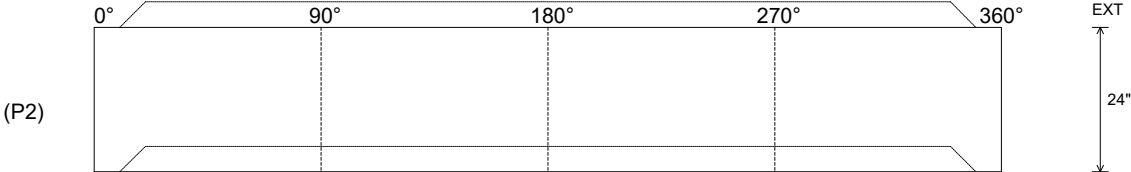
Floor Height: 0"

Height (Int): 74"

Height (Ext): 74"

Weight (Net): 39815 lb

Volume (Net): 10.17cu.yd

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|------------------------------------|------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|--|--|--|
| Job Name: 23-2309 - Richland Estates Subdivision<br>Job Location: Portland, TN<br>Contractor: Core & Main LP (BG)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |                                                                                      |                                    |      | Plant: 100<br>6/30/2026 8:54:34 AM     |                                                                                                                                                              | Tech: J. Horsley<br>PC: T. Lewis       |                                                                                                                                                                                                                                                                                                                                      |  |        |  |  |  |
| Structure ID: 02 SS-MH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| P2 MH048RS24X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                                      | MH RISER w/XYPEX                   |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| <p>P5) 24" - CASTING HEIGHT - 6"<br/>P4) 24" - XYPEX GRADE RING - 4"<br/>P3) 48" - ECC XYPEX CONE w/ 24" HOLE - 36"<br/>P2) 48" - MH RISER w/XYPEX - 24"<br/>P1) 48" - MH BASE w/XYPEX - 24"</p> <p>1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212<br/>1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)<br/>1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT<br/>1) 48" - Conseal CS-102 1.00" (Double)<br/>1) 48" - Conseal CS-231 1.00" (Double)<br/>1) 24" - Conseal CS-102 1.00" (Double)<br/>2) PSX - 12-08 NYLO<br/>7) MH Step ML-10-TDS-NCR - 10"</p> |      |                                                                                      |                                    |      |                                        | <p>0 lb<br/>270 lb<br/>2251 lb<br/>1677 lb<br/>2911 lb<br/>0 lb<br/>0 lb<br/>1440 lb<br/>0 lb<br/>0 lb<br/>0 lb<br/>16 lb<br/>0 lb<br/>-----<br/>8565 lb</p> |                                        | <p>Structure Notes: .<br/>1. PER ASTM C478 SPECIFICATIONS.<br/>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br/>3. ADMIXTURE = XYPEX C-500 NF RED<br/>4. CASTING BY OTHERS (JBS 1155 F/C SANITARY).<br/>.<br/>REINFORCING PER ASTM A615 (GRADE 60).<br/>- CONE (As .12)<br/>- RISER (As .12)<br/>- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.</p> |                                                                                    |        |  |  |  |
| Rim: 807.54' Rim to Invert: 7.73' Slack: 0.76" Sump: 2" Step Position: 90.5°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Elev | Angle                                                                                | Ext. (cw)                          | Pipe | Pipe OD                                | Connector                                                                                                                                                    | Hole                                   | Horz Size                                                                                                                                                                                                                                                                                                                            | Up ( _ )                                                                           | Offset |  |  |  |
| Invert 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| Invert 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| Invert 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| Invert 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| Invert 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| Invert 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| Invert 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| Invert 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| RIGHT-SIDE UP VIEW (int. dimensions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |  |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| INSIDE WALL DIMENSIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |                                                                                      |                                    |      |                                        |                                                                                                                                                              |                                        |                                                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |  |  |
| Coating (Int):<br>Coating (Ext):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |                                                                                      | Seam Up: Tongue<br>Seam Dn: Groove |      | Wall Thickness: 5"<br>Floor Height: 0" |                                                                                                                                                              | Height (Int): 24"<br>Height (Ext): 24" |                                                                                                                                                                                                                                                                                                                                      | Weight (Net): 1677 lb<br>Volume (Net): 0.43cu.yd                                   |        |  |  |  |

Job Name: 23-2309 - Richland Estates Subdivision

Job Location: Portland, TN

Contractor: Core & Main LP (BG)

Plant: 100

6/30/2026 8:52:23 AM

Tech: J. Horsley

PC: T. Lewis

Structure ID: 02 SS-MH

P1 MH048BA24X

MH BASE w/XYPEX

P5) 24" - CASTING HEIGHT - 6"

P4) 24" - XYPEX GRADE RING - 4"

P3) 48" - ECC XYPEX CONE w/ 24" HOLE - 36"

P2) 48" - MH RISER w/XYPEX - 24"

P1) 48" - MH BASE w/XYPEX - 24"

1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212

1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)

1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT

1) 48" - Conseal CS-102 1.00" (Double)

1) 48" - Conseal CS-231 1.00" (Double)

1) 24" - Conseal CS-102 1.00" (Double)

2) PSX - 12-08 NYLO

7) MH Step ML-10-TDS-NCR - 10"

0 lb

270 lb

2251 lb

1677 lb

2911 lb

0 lb

0 lb

1440 lb

0 lb

0 lb

0 lb

16 lb

0 lb

-----

8565 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

2. CONCRETE = 4,000 PSI AT 28 DAYS.

3. ADMIXTURE = XYPEX C-500 NF RED

4. CASTING BY OTHERS (JBS 1155 F/C SANITARY).

REINFORCING PER ASTM A615 (GRADE 60).

- CONE (As .12)

- RISER (As .12)

- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Structure Total:

8565 lb

Rim: 807.54'

Rim to Invert: 7.73'

Slack: 0.76"

Sump: 2"

Step Position: 90.5°

| Position | Elev    | Angle | Ext. (cw) | Pipe         | Pipe OD | Connector      | Hole | Horz Size | Up ( ) | Offset |
|----------|---------|-------|-----------|--------------|---------|----------------|------|-----------|--------|--------|
| Invert 1 | 799.81' | 0°    | 0"        | 8" PVC SDR26 | 8.5"    | PSX 12-08 NYLO | 12"  | 12.129"   | 0"     | 0"     |
| Invert 2 | 800.01' | 181°  | 91.612"   | 8" PVC SDR26 | 8.5"    | PSX 12-08 NYLO | 12"  | 12.129"   | 2.4"   | 0"     |
| Invert 3 |         |       |           |              |         |                |      |           |        |        |
| Invert 4 |         |       |           |              |         |                |      |           |        |        |
| Invert 5 |         |       |           |              |         |                |      |           |        |        |
| Invert 6 |         |       |           |              |         |                |      |           |        |        |
| Invert 7 |         |       |           |              |         |                |      |           |        |        |
| Invert 8 |         |       |           |              |         |                |      |           |        |        |

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 5"

Floor Height: 6"

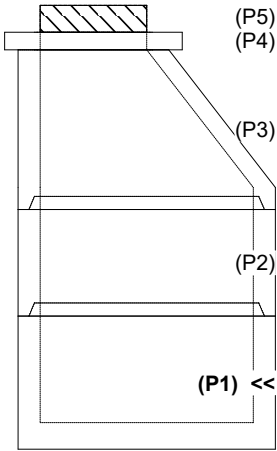
Height (Int): 24"

Height (Ext): 30"

Weight (Net): 2911 lb

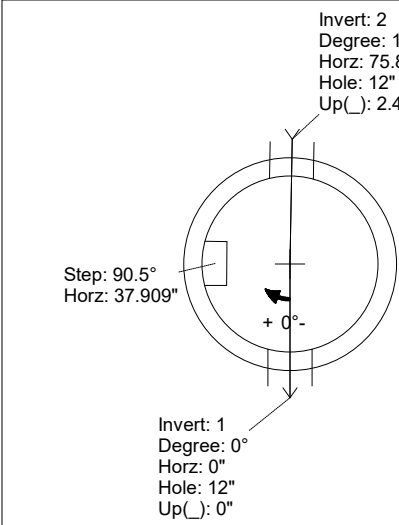
Volume (Net): 0.74cu.yd

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |         |                 |           |              |                                                                                                                                                              |                |                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                    |        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 23-2309 - Richland Estates Subdivision<br>Job Location: Portland, TN<br>Contractor: Core & Main LP (BG)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                 |           |              | Plant: 100<br>6/30/2026 8:52:23 AM                                                                                                                           |                | Tech: J. Horsley<br>PC: T. Lewis                                                                                                                                                                                                                                                                                                                                                               |           |  |        |  |
| Structure ID: 02 SS-MH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |                 |           |              |                                                                                                                                                              |                |                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                    |        |  |
| P1 MH048BA24X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         | MH BASE w/XYPEX |           |              |                                                                                                                                                              |                |                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                    |        |  |
| <p>P5) 24" - CASTING HEIGHT - 6"<br/>P4) 24" - XYPEX GRADE RING - 4"<br/>P3) 48" - ECC XYPEX CONE w/ 24" HOLE - 36"<br/>P2) 48" - MH RISER w/XYPEX - 24"<br/>P1) 48" - MH BASE w/XYPEX - 24"</p> <p>1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212<br/>1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)<br/>1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT<br/>1) 48" - Conseal CS-102 1.00" (Double)<br/>1) 48" - Conseal CS-231 1.00" (Double)<br/>1) 24" - Conseal CS-102 1.00" (Double)<br/>2) PSX - 12-08 NYLO<br/>7) MH Step ML-10-TDS-NCR - 10"</p> |         |                 |           |              | <p>0 lb<br/>270 lb<br/>2251 lb<br/>1677 lb<br/>2911 lb<br/>0 lb<br/>0 lb<br/>1440 lb<br/>0 lb<br/>0 lb<br/>0 lb<br/>16 lb<br/>0 lb<br/>-----<br/>8565 lb</p> |                | <p>Structure Notes:</p> <p>1. PER ASTM C478 SPECIFICATIONS.<br/>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br/>3. ADMIXTURE = XYPEX C-500 NF RED<br/>4. CASTING BY OTHERS (JBS 1155 F/C SANITARY).</p> <p>REINFORCING PER ASTM A615 (GRADE 60).<br/>- CONE (As .12)<br/>- RISER (As .12)<br/>- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.</p> <p><b>INVERT CHANNEL DRAWING<br/>FULL HEIGHT INVERT</b></p> |           |                                                                                    |        |  |
| Rim: 807.54' Rim to Invert: 7.73' Slack: 0.76" Sump: 2" Step Position: 90.5°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                 |           |              |                                                                                                                                                              |                |                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Elev    | Angle           | Ext. (cw) | Pipe         | Pipe OD                                                                                                                                                      | Connector      | Hole                                                                                                                                                                                                                                                                                                                                                                                           | Horz Size | Up ( )                                                                             | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 799.81' | 0°              | 0"        | 8" PVC SDR26 | 8.5"                                                                                                                                                         | PSX 12-08 NYLO | 12"                                                                                                                                                                                                                                                                                                                                                                                            | 12.129"   | 0"                                                                                 | 0"     |  |
| Invert 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 800.01' | 181°            | 91.612"   | 8" PVC SDR26 | 8.5"                                                                                                                                                         | PSX 12-08 NYLO | 12"                                                                                                                                                                                                                                                                                                                                                                                            | 12.129"   | 2.4"                                                                               | 0"     |  |
| Invert 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                 |           |              |                                                                                                                                                              |                |                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                    |        |  |
| Invert 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                 |           |              |                                                                                                                                                              |                |                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                 |           |              |                                                                                                                                                              |                |                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                 |           |              |                                                                                                                                                              |                |                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                 |           |              |                                                                                                                                                              |                |                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                 |           |              |                                                                                                                                                              |                |                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                    |        |  |



(P5)  
(P4)  
(P3)  
(P2)  
(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

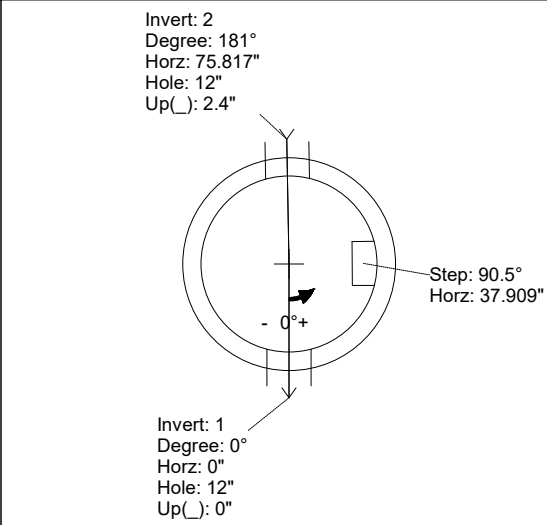


Invert: 2  
Degree: 181°  
Horz: 75.817"  
Hole: 12"  
Up( ): 2.4"

Step: 90.5°  
Horz: 37.909"

Invert: 1  
Degree: 0°  
Horz: 0"  
Hole: 12"  
Up( ): 0"

UPSIDE-DOWN VIEW (int. dimensions)

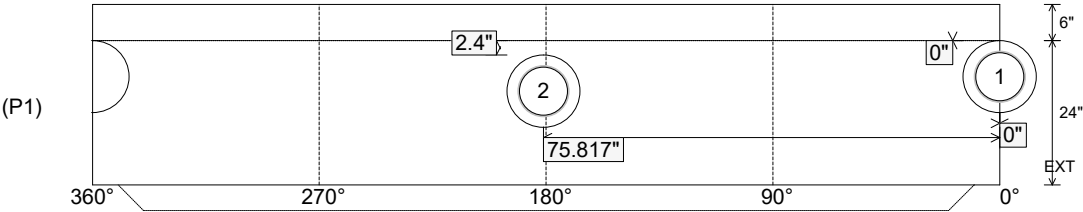


Invert: 2  
Degree: 181°  
Horz: 75.817"  
Hole: 12"  
Up( ): 2.4"

Step: 90.5°  
Horz: 37.909"

Invert: 1  
Degree: 0°  
Horz: 0"  
Hole: 12"  
Up( ): 0"

INSIDE WALL DIMENSIONS



(P1)

360° 270° 180° 90° 0°

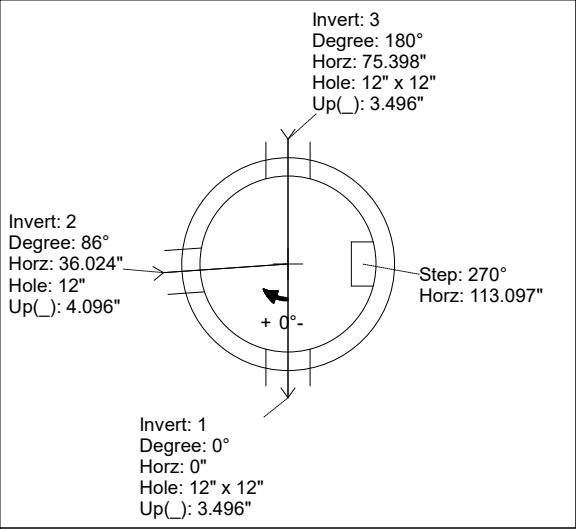
2.4" 0" 0" 75.817" 6" 24" EXT

|                                  |                                 |                                        |                                        |                                                  |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Tongue<br>Seam Dn: n/a | Wall Thickness: 5"<br>Floor Height: 6" | Height (Int): 24"<br>Height (Ext): 30" | Weight (Net): 2911 lb<br>Volume (Net): 0.74cu.yd |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|

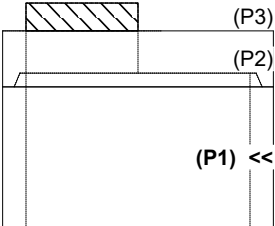


|                                                                                                                                                                                                                                                                                                                                                                      |         |              |           |                     |                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                              |           |                                                                                    |        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------|-----------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 23-2309 - Richland Estates Subdivision<br>Job Location: Portland, TN<br>Contractor: Core & Main LP (BG)                                                                                                                                                                                                                                                    |         |              |           |                     | Plant: 100<br>6/30/2026 8:52:23 AM                                                                                                        |                  | Tech: J. Horsley<br>PC: T. Lewis                                                                                                                                                                                                                                                                                             |           |  |        |  |
| Structure ID: 01 SS-MH                                                                                                                                                                                                                                                                                                                                               |         |              |           |                     |                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                              |           |                                                                                    |        |  |
| P1                                                                                                                                                                                                                                                                                                                                                                   |         | MH048DHRS30X |           | MH DH RISER w/XYPEX |                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                              |           |                                                                                    |        |  |
| <p>P3) 24" - CASTING HEIGHT - 6"<br/>P2) 48" - XYPEX MH FLAT TOP w/24" ECC Hole - 12"<br/>P1) 48" - MH DH RISER w/XYPEX - 30"<br/>1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212<br/>1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)<br/>1) 48" - Conseal CS-102 1.00" (Double)<br/>2) DOGHOUSE - 12"x12"<br/>1) PSX - 12-08 NYLO<br/>2) MH Step ML-10-TDS-NCR - 10"</p> |         |              |           |                     | <p>0 lb<br/>2205 lb<br/>1904 lb<br/>0 lb<br/>0 lb<br/>0 lb<br/>0 lb<br/>8 lb<br/>8 lb<br/>0 lb<br/>-----<br/>Structure Total: 5556 lb</p> |                  | <p>Structure Notes:<br/>1. PER ASTM C478 SPECIFICATIONS.<br/>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br/>3. ADMIXTURE = XYPEX C-500 NF RED<br/>4. CASTING BY OTHERS (JBS 1155 F/C SANITARY).<br/>REINFORCING PER ASTM A615 (GRADE 60).<br/>- CONE (As .12)<br/>- RISER (As .12)<br/>- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.</p> |           |                                                                                    |        |  |
| Rim: 802.14' Rim to Invert: 3.58' Slack: 0.456" Sump: 5.496" Step Position: 270°                                                                                                                                                                                                                                                                                     |         |              |           |                     |                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                              |           |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                                                                                                             | Elev    | Angle        | Ext. (cw) | Pipe                | Pipe OD                                                                                                                                   | Connector        | Hole                                                                                                                                                                                                                                                                                                                         | Horz Size | Up ( _ )                                                                           | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                                                                                                             | 798.56' | 0°           | 0"        | 8" PVC SDR26        | 8.5"                                                                                                                                      | DOGHOUSE 12"x12" | 12" x 12"                                                                                                                                                                                                                                                                                                                    | 12.129"   | 3.496"                                                                             | 0"     |  |
| Invert 2                                                                                                                                                                                                                                                                                                                                                             | 798.61' | 86°          | 43.529"   | 8" PVC SDR26        | 8.5"                                                                                                                                      | PSX 12-08 NYLO   | 12"                                                                                                                                                                                                                                                                                                                          | 12.129"   | 4.096"                                                                             | 0"     |  |
| Invert 3                                                                                                                                                                                                                                                                                                                                                             | 798.56' | 180°         | 91.106"   | 8" PVC SDR26        | 8.5"                                                                                                                                      | DOGHOUSE 12"x12" | 12" x 12"                                                                                                                                                                                                                                                                                                                    | 12.129"   | 3.496"                                                                             | 0"     |  |
| Invert 4                                                                                                                                                                                                                                                                                                                                                             |         |              |           |                     |                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                              |           |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                                                                                                             |         |              |           |                     |                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                              |           |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                                                                                                             |         |              |           |                     |                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                              |           |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                                                                                                             |         |              |           |                     |                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                              |           |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                                                                                                             |         |              |           |                     |                                                                                                                                           |                  |                                                                                                                                                                                                                                                                                                                              |           |                                                                                    |        |  |

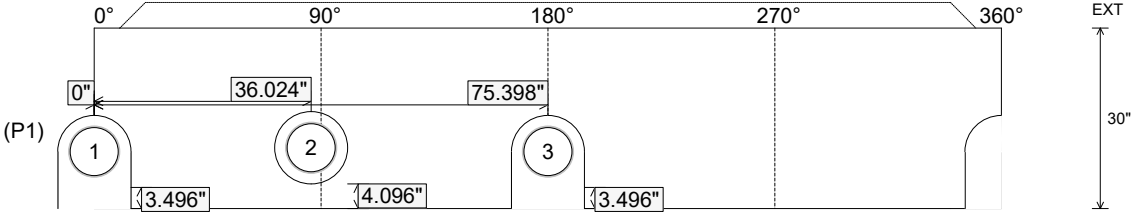
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

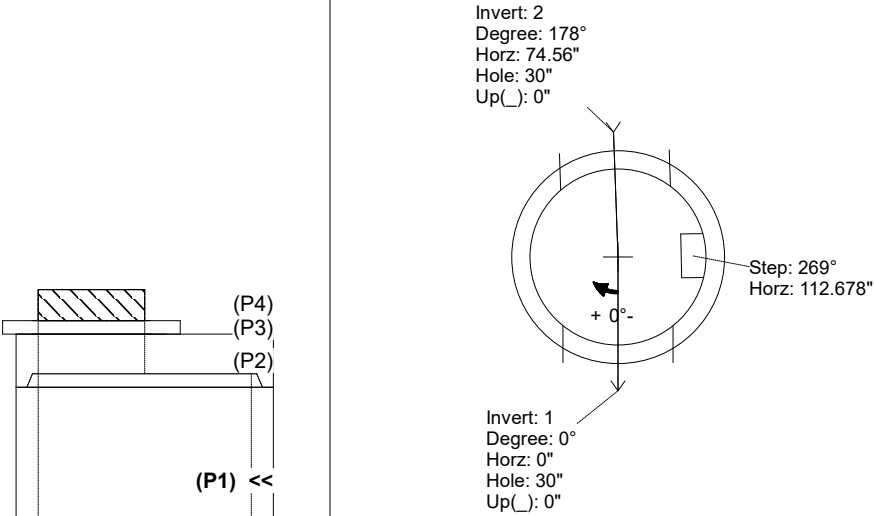


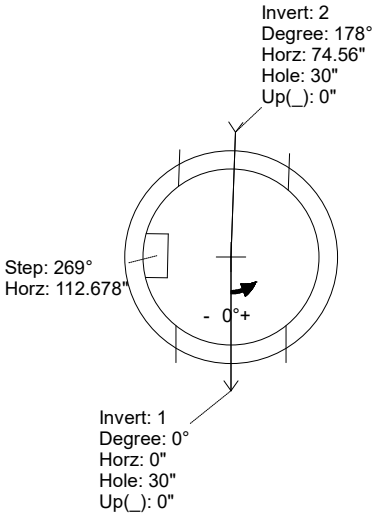
INSIDE WALL DIMENSIONS

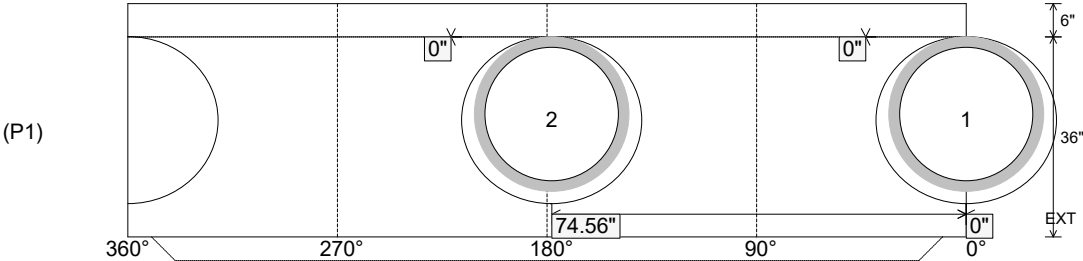


|                                  |                                  |                                        |                                        |                                                  |
|----------------------------------|----------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Tongue<br>Seam Dn: Flat | Wall Thickness: 5"<br>Floor Height: 0" | Height (Int): 30"<br>Height (Ext): 30" | Weight (Net): 1904 lb<br>Volume (Net): 0.49cu.yd |
|----------------------------------|----------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|

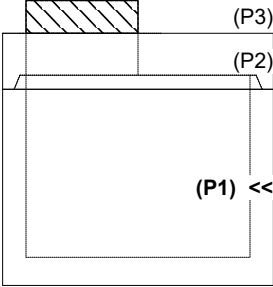
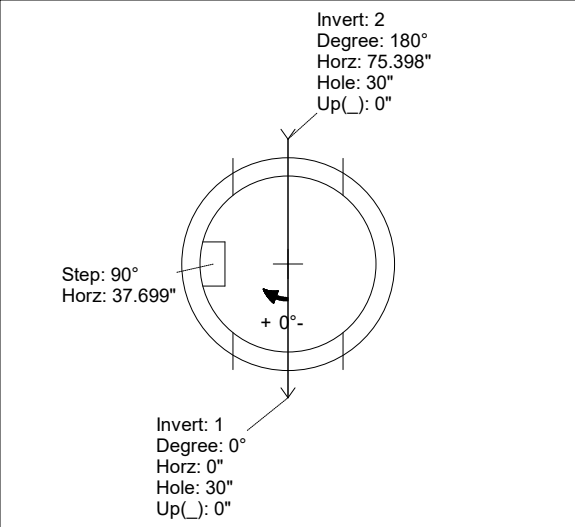
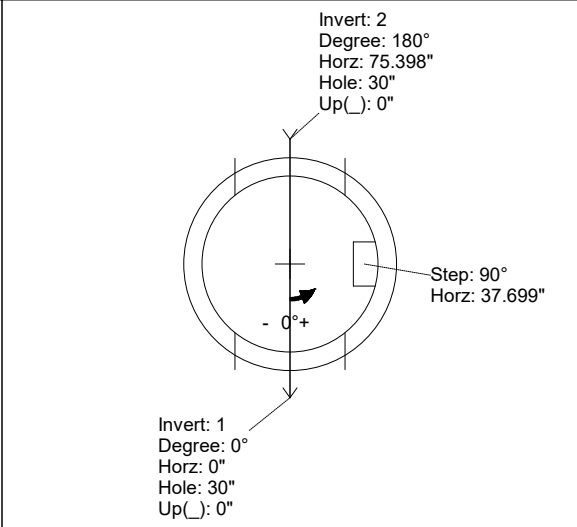
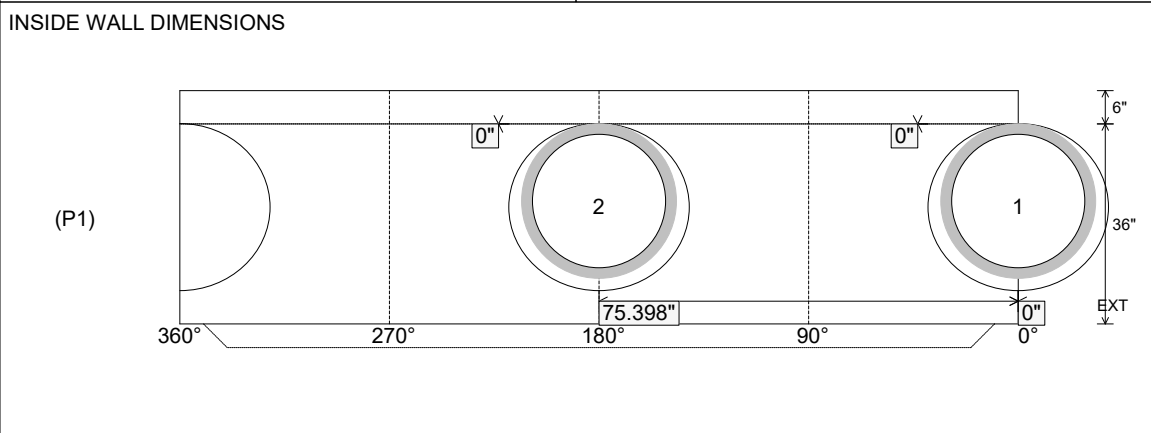
|                                                                                                                                                                                                                                                                                  |      |                   |           |          |                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------|-----------|----------|---------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 23-2309 - Richland Estates Subdivision<br>Job Location: Portland, TN<br>Contractor: Core & Main LP (BG)                                                                                                                                                                |      |                   |           |          | Plant: 100<br>6/30/2026 8:52:22 AM                                                                                        |           | Tech: J. Horsley<br>PC: T. Lewis                                                                                                                                                                                                                                                                                                                                                                                                |           |  |        |  |
| Structure ID: 27 ST-JB                                                                                                                                                                                                                                                           |      |                   |           |          |                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| P1 MH048BA36                                                                                                                                                                                                                                                                     |      | MH BASE Custom Ht |           |          |                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| <p>P4) 24" - CASTING HEIGHT - 7"<br/>P3) 24" - GRADE RING - 3"<br/>P2) 48" - MH FLAT TOP w/ 24" ECC Hole - 12"<br/>P1) 48" - MH BASE Custom Ht - 36"<br/>1) 48" - Conseal CS-102 1.00"<br/>1) 24" - Conseal CS-102 1.00"<br/>2) Hole - 30<br/>3) MH Step ML-10-TDS-NCR - 10"</p> |      |                   |           |          | <p>0 lb<br/>202 lb<br/>1561 lb<br/>3213 lb<br/>0 lb<br/>0 lb<br/>0 lb<br/>0 lb<br/>-----<br/>Structure Total: 4977 lb</p> |           | <p>Structure Notes:</p> <ol style="list-style-type: none"><li>1. PER ASTM C478 SPECIFICATIONS.</li><li>2. CONCRETE = 4,000 PSI AT 28 DAYS.</li><li>3. NO INVERT CHANNEL.</li><li>4. CASTING BY OTHERS (JBS 1150 F/C).</li></ol> <p>REINFORCING PER ASTM A615 (GRADE 60).</p> <ul style="list-style-type: none"><li>- TOP SLAB =H20 LOADING.</li><li>- RISER (As .12)</li><li>- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.</li></ul> |           |                                                                                    |        |  |
| Rim: 794.88' Rim to Invert: 4.88' Slack: 2.46" Sump: 1.9" Step Position: 269°                                                                                                                                                                                                    |      |                   |           |          |                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                         | Elev | Angle             | Ext. (cw) | Pipe     | Pipe OD                                                                                                                   | Connector | Hole                                                                                                                                                                                                                                                                                                                                                                                                                            | Horz Size | Up ( _ )                                                                           | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                         | 790' | 0°                | 0"        | 24" HDPE | 27.8"                                                                                                                     | Hole 30   | 30"                                                                                                                                                                                                                                                                                                                                                                                                                             | 32.406"   | 0"                                                                                 | 0"     |  |
| Invert 2                                                                                                                                                                                                                                                                         | 790' | 178°              | 90.094"   | 24" HDPE | 27.8"                                                                                                                     | Hole 30   | 30"                                                                                                                                                                                                                                                                                                                                                                                                                             | 32.406"   | 0"                                                                                 | 0"     |  |
| Invert 3                                                                                                                                                                                                                                                                         |      |                   |           |          |                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 4                                                                                                                                                                                                                                                                         |      |                   |           |          |                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                         |      |                   |           |          |                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                         |      |                   |           |          |                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                         |      |                   |           |          |                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                         |      |                   |           |          |                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |







|                                  |                                 |                                        |                                        |                                                  |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Tongue<br>Seam Dn: n/a | Wall Thickness: 5"<br>Floor Height: 6" | Height (Int): 36"<br>Height (Ext): 42" | Weight (Net): 3213 lb<br>Volume (Net): 0.82cu.yd |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                 |         |                      |                                 |              |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                         |                                                                                    |        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------|---------------------------------|--------------|----------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 23-2309 - Richland Estates Subdivision<br>Job Location: Portland, TN<br>Contractor: Core & Main LP (BG)                                                                                                                                                                                                                                                                               |         |                      |                                 |              | Plant: 100<br>6/30/2026 8:52:21 AM     |                                                                                                       | Tech: J. Horsley<br>PC: T. Lewis       |                                                                                                                                                                                                                                                                                                                         |  |        |  |
| Structure ID: 26 ST-JB                                                                                                                                                                                                                                                                                                                                                                          |         |                      |                                 |              |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                         |                                                                                    |        |  |
| P1 MH048BA36                                                                                                                                                                                                                                                                                                                                                                                    |         | MH BASE              |                                 |              |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                         |                                                                                    |        |  |
| <p>P3) 24" - CASTING HEIGHT - 7"<br/>P2) 48" - MH FLAT TOP w/ 24" ECC Hole - 12"<br/>P1) 48" - MH BASE - 36"<br/>1) 48" - Conseal CS-102 1.00"<br/>2) Hole - 30<br/>3) MH Step ML-10-TDS-NCR - 10"</p>                                                                                                                                                                                          |         |                      |                                 |              |                                        | <p>0 lb<br/>1561 lb<br/>3213 lb<br/>0 lb<br/>0 lb<br/>0 lb<br/>-----<br/>Structure Total: 4774 lb</p> |                                        | <p>Structure Notes: .<br/>1. PER ASTM C478 SPECIFICATIONS.<br/>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br/>3. NO INVERT CHANNEL.<br/>4. CASTING BY OTHERS (JBS 1150 F/C).<br/><br/>REINFORCING PER ASTM A615 (GRADE 60).<br/>- TOP SLAB =H20 LOADING.<br/>- RISER (As .12)<br/>- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.</p> |                                                                                    |        |  |
| Rim: 799.99'                                                                                                                                                                                                                                                                                                                                                                                    |         | Rim to Invert: 4.52' |                                 | Slack: 1.14" |                                        | Sump: 1.9"                                                                                            |                                        | Step Position: 90°                                                                                                                                                                                                                                                                                                      |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                                                                                                                                        | Elev    | Angle                | Ext. (cw)                       | Pipe         | Pipe OD                                | Connector                                                                                             | Hole                                   | Horz Size                                                                                                                                                                                                                                                                                                               | Up ( )                                                                             | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                                                                                                                                        | 795.47' | 0°                   | 0"                              | 24" HDPE     | 27.8"                                  | Hole 30                                                                                               | 30"                                    | 32.406"                                                                                                                                                                                                                                                                                                                 | 0"                                                                                 | 0"     |  |
| Invert 2                                                                                                                                                                                                                                                                                                                                                                                        | 795.47' | 180°                 | 91.106"                         | 24" HDPE     | 27.8"                                  | Hole 30                                                                                               | 30"                                    | 32.406"                                                                                                                                                                                                                                                                                                                 | 0"                                                                                 | 0"     |  |
| Invert 3                                                                                                                                                                                                                                                                                                                                                                                        |         |                      |                                 |              |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                         |                                                                                    |        |  |
| Invert 4                                                                                                                                                                                                                                                                                                                                                                                        |         |                      |                                 |              |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                         |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                                                                                                                                        |         |                      |                                 |              |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                         |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                                                                                                                                        |         |                      |                                 |              |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                         |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                                                                                                                                        |         |                      |                                 |              |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                         |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                                                                                                                                        |         |                      |                                 |              |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                         |                                                                                    |        |  |
| <div>RIGHT-SIDE UP VIEW (int. dimensions)</div> <div>UPSIDE-DOWN VIEW (int. dimensions)</div> <div>INSIDE WALL DIMENSIONS</div>                                                                                                                                                                                                                                                                 |         |                      |                                 |              |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                         |                                                                                    |        |  |
| <div></div> <div></div> <div></div> <div></div> |         |                      |                                 |              |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                         |                                                                                    |        |  |
| Coating (Int):<br>Coating (Ext):                                                                                                                                                                                                                                                                                                                                                                |         |                      | Seam Up: Tongue<br>Seam Dn: n/a |              | Wall Thickness: 5"<br>Floor Height: 6" |                                                                                                       | Height (Int): 36"<br>Height (Ext): 42" |                                                                                                                                                                                                                                                                                                                         | Weight (Net): 3213 lb<br>Volume (Net): 0.82cu.yd                                   |        |  |

|                                                                                                                                                                                                                         |         |                      |                |              |                      |                                                                                                          |                  |                                                                                                                                                                                                                                                                                                          |          |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------|----------------|--------------|----------------------|----------------------------------------------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|
| Job Name: 23-2309 - Richland Estates Subdivision<br>Job Location: Portland, TN<br>Contractor: Core & Main LP (BG)                                                                                                       |         |                      |                |              | Plant: 100           |                                                                                                          | Tech: J. Horsley |                                                                                                                                                                                                                                                                                                          |          |        |
|                                                                                                                                                                                                                         |         |                      |                |              | 6/30/2026 8:52:20 AM |                                                                                                          | PC: T. Lewis     |                                                                                                                                                                                                                                                                                                          |          |        |
| <b>Structure ID: 25 ST-JB</b>                                                                                                                                                                                           |         |                      |                |              |                      |                                                                                                          |                  |                                                                                                                                                                                                                                                                                                          |          |        |
| <b>P1 MH048BA36</b>                                                                                                                                                                                                     |         |                      | <b>MH BASE</b> |              |                      |                                                                                                          |                  |                                                                                                                                                                                                                                                                                                          |          |        |
| P4) 24" - CASTING HEIGHT - 7"<br>P3) 24" - GRADE RING - 3"<br>P2) 48" - MH FLAT TOP w/ 24" ECC Hole - 12"<br>P1) 48" - MH BASE - 36"<br>1) 48" - Conseal CS-102 1.00"<br>2) Hole - 20<br>3) MH Step ML-10-TDS-NCR - 10" |         |                      |                |              |                      | 0 lb<br>202 lb<br>1561 lb<br>3575 lb<br>0 lb<br>0 lb<br>0 lb<br>-----<br><b>Structure Total: 5338 lb</b> |                  | <b>Structure Notes:</b><br>1. PER ASTM C478 SPECIFICATIONS.<br>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br>3. NO INVERT CHANNEL.<br>4. CASTING BY OTHERS (JBS 1150 F/C).<br>REINFORCING PER ASTM A615 (GRADE 60).<br>- TOP SLAB =H20 LOADING.<br>- RISER (As .12)<br>- FLOOR (As .31) #5 BARS AT 12" C.C.E.W. |          |        |
| Rim: 806'                                                                                                                                                                                                               |         | Rim to Invert: 4.99' |                | Slack: 1.88" |                      | Sump: 0"                                                                                                 |                  | Step Position: 98°                                                                                                                                                                                                                                                                                       |          |        |
| Position                                                                                                                                                                                                                | Elev    | Angle                | Ext. (cw)      | Pipe         | Pipe OD              | Connector                                                                                                | Hole             | Horz Size                                                                                                                                                                                                                                                                                                | Up ( _ ) | Offset |
| Invert 1                                                                                                                                                                                                                | 801.01' | 0°                   | 0"             | 15" HDPE     | 17.6"                | Hole 20                                                                                                  | 20"              | 20.629"                                                                                                                                                                                                                                                                                                  | -1.3"    | 0"     |
| Invert 2                                                                                                                                                                                                                | 801.01' | 196°                 | 99.205"        | 15" HDPE     | 17.6"                | Hole 20                                                                                                  | 20"              | 20.629"                                                                                                                                                                                                                                                                                                  | -1.3"    | 0"     |
| Invert 3                                                                                                                                                                                                                |         |                      |                |              |                      |                                                                                                          |                  |                                                                                                                                                                                                                                                                                                          |          |        |
| Invert 4                                                                                                                                                                                                                |         |                      |                |              |                      |                                                                                                          |                  |                                                                                                                                                                                                                                                                                                          |          |        |
| Invert 5                                                                                                                                                                                                                |         |                      |                |              |                      |                                                                                                          |                  |                                                                                                                                                                                                                                                                                                          |          |        |
| Invert 6                                                                                                                                                                                                                |         |                      |                |              |                      |                                                                                                          |                  |                                                                                                                                                                                                                                                                                                          |          |        |
| Invert 7                                                                                                                                                                                                                |         |                      |                |              |                      |                                                                                                          |                  |                                                                                                                                                                                                                                                                                                          |          |        |
| Invert 8                                                                                                                                                                                                                |         |                      |                |              |                      |                                                                                                          |                  |                                                                                                                                                                                                                                                                                                          |          |        |

**RIGHT-SIDE UP VIEW (int. dimensions)**

**UPSIDE-DOWN VIEW (int. dimensions)**

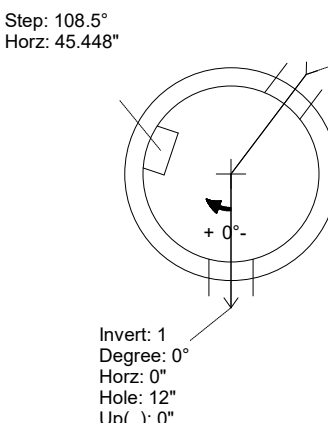
(P4)  
(P3)  
(P2)  
  
(P1) <<

**INSIDE WALL DIMENSIONS**

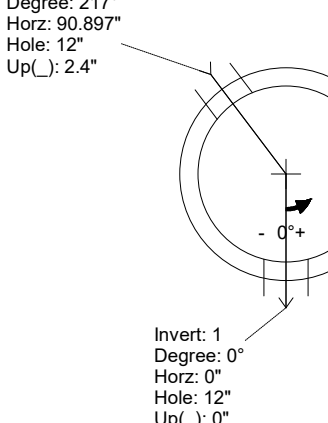
|                                  |                                 |                                        |                                        |                                                  |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Tongue<br>Seam Dn: n/a | Wall Thickness: 5"<br>Floor Height: 6" | Height (Int): 36"<br>Height (Ext): 42" | Weight (Net): 3575 lb<br>Volume (Net): 0.91cu.yd |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|

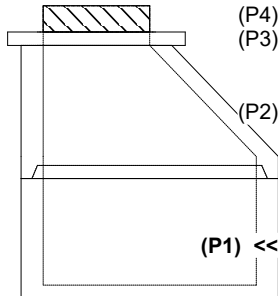
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |       |                        |              |                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                           |           |                                                                                    |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--------|
| Job Name: 23-2309 - Richland Estates Subdivision<br>Job Location: Portland, TN<br>Contractor: Core & Main LP (BG)                                                                                                                                                                                                                                                                                                                                              |         |       |                        |              | Plant: 100<br>6/30/2026 8:52:24 AM                                                                                                            |                | Tech: J. Horsley<br>PC: T. Lewis                                                                                                                                                                                                                                                                                          |           |  |        |
| <b>Structure ID: 03 SS-MH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |       |                        |              |                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                           |           |                                                                                    |        |
| <b>P1 MH048BA24X</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |       | <b>MH BASE w/XYPEX</b> |              |                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                           |           |                                                                                    |        |
| P4) 24" - CASTING HEIGHT - 6"<br>P3) 24" - XYPEX GRADE RING - 3"<br>P2) 48" - ECC XYPEX CONE w/ 24" HOLE - 30"<br>P1) 48" - MH BASE w/XYPEX - 24"<br>1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212<br>1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)<br>1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT<br>1) 48" - Conseal CS-231 1.00" (Double)<br>1) 24" - Conseal CS-102 1.00" (Double)<br>2) PSX - 12-08 NYLO<br>2) MH Step ML-10-TDS-NCR - 10" |         |       |                        |              | 0 lb<br>202 lb<br>1981 lb<br>2911 lb<br>0 lb<br>0 lb<br>1440 lb<br>0 lb<br>0 lb<br>0 lb<br>16 lb<br>0 lb<br>-----<br>Structure Total: 6551 lb |                | <b>Structure Notes:</b><br>1. PER ASTM C478 SPECIFICATIONS.<br>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br>3. ADMIXTURE = XYPEX C-500 NF RED<br>4. CASTING BY OTHERS (JBS 1155 F/C SANITARY).<br>.<br>REINFORCING PER ASTM A615 (GRADE 60).<br>- CONE (As .12)<br>- RISER (As .12)<br>- FLOOR (As .31) #5 BARS AT 12" C.C.E.W. |           |                                                                                    |        |
| Rim: 805.87'    Rim to Invert: 5.14'    Slack: 0.68"    Sump: 2"    Step Position: 108.5°                                                                                                                                                                                                                                                                                                                                                                      |         |       |                        |              |                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                           |           |                                                                                    |        |
| Position                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Elev    | Angle | Ext. (cw)              | Pipe         | Pipe OD                                                                                                                                       | Connector      | Hole                                                                                                                                                                                                                                                                                                                      | Horz Size | Up ( )                                                                             | Offset |
| Invert 1                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 800.73' | 0°    | 0"                     | 8" PVC SDR26 | 8.5"                                                                                                                                          | PSX 12-08 NYLO | 12"                                                                                                                                                                                                                                                                                                                       | 12.129"   | 0"                                                                                 | 0"     |
| Invert 2                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 800.93' | 217°  | 109.834"               | 8" PVC SDR26 | 8.5"                                                                                                                                          | PSX 12-08 NYLO | 12"                                                                                                                                                                                                                                                                                                                       | 12.129"   | 2.4"                                                                               | 0"     |
| Invert 3                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |       |                        |              |                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                           |           |                                                                                    |        |
| Invert 4                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |       |                        |              |                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                           |           |                                                                                    |        |
| Invert 5                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |       |                        |              |                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                           |           |                                                                                    |        |
| Invert 6                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |       |                        |              |                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                           |           |                                                                                    |        |
| Invert 7                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |       |                        |              |                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                           |           |                                                                                    |        |
| Invert 8                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |       |                        |              |                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                           |           |                                                                                    |        |

**RIGHT-SIDE UP VIEW (int. dimensions)**

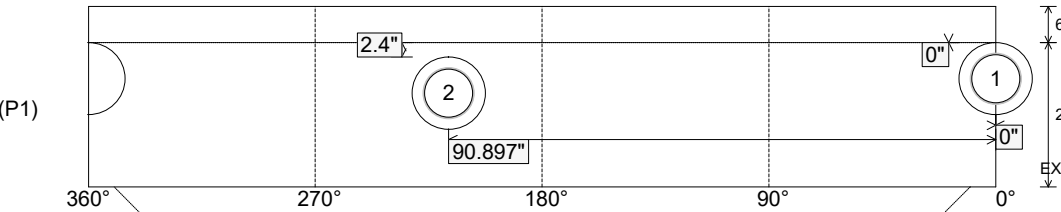


**UPSIDE-DOWN VIEW (int. dimensions)**



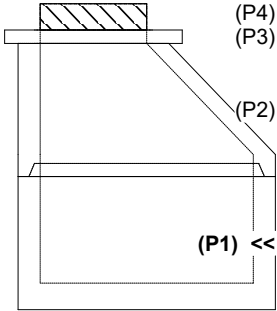


**INSIDE WALL DIMENSIONS**

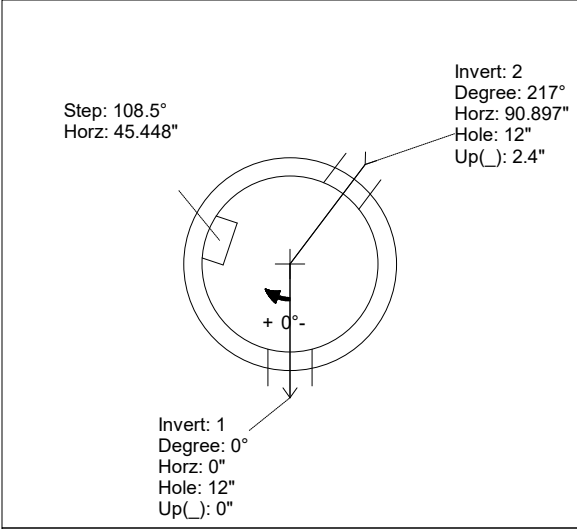


|                                  |                                 |                                        |                                        |                                                  |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Tongue<br>Seam Dn: n/a | Wall Thickness: 5"<br>Floor Height: 6" | Height (Int): 24"<br>Height (Ext): 30" | Weight (Net): 2911 lb<br>Volume (Net): 0.74cu.yd |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|

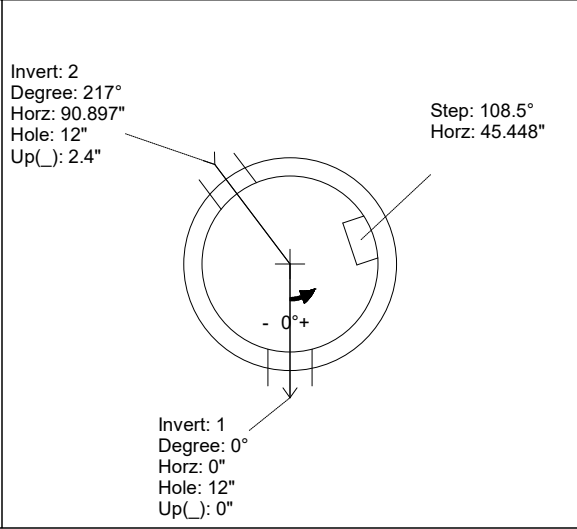
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |       |           |                                    |         |                                                                                                                                                          |      |                                                                                                                                                                                                                                                                                                                                |        |        |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|-----------|------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--|--|
| Job Name: 23-2309 - Richland Estates Subdivision<br>Job Location: Portland, TN<br>Contractor: Core & Main LP (BG)                                                                                                                                                                                                                                                                                                                                                               |         |       |           | Plant: 100<br>6/30/2026 8:52:24 AM |         | Tech: J. Horsley<br>PC: T. Lewis                                                                                                                         |      |                                                                                                                                                                                                                                              |        |        |  |  |
| Structure ID: 03 SS-MH                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |       |           |                                    |         |                                                                                                                                                          |      |                                                                                                                                                                                                                                                                                                                                |        |        |  |  |
| P1 MH048BA24X                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |       |           | MH BASE w/XYPEX                    |         |                                                                                                                                                          |      |                                                                                                                                                                                                                                                                                                                                |        |        |  |  |
| <p>P4) 24" - CASTING HEIGHT - 6"<br/>P3) 24" - XYPEX GRADE RING - 3"<br/>P2) 48" - ECC XYPEX CONE w/ 24" HOLE - 30"<br/>P1) 48" - MH BASE w/XYPEX - 24"<br/>1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212<br/>1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)<br/>1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT<br/>1) 48" - Conseal CS-231 1.00" (Double)<br/>1) 24" - Conseal CS-102 1.00" (Double)<br/>2) PSX - 12-08 NYLO<br/>2) MH Step ML-10-TDS-NCR - 10"</p> |         |       |           |                                    |         | <p>0 lb<br/>202 lb<br/>1981 lb<br/>2911 lb<br/>0 lb<br/>0 lb<br/>1440 lb<br/>0 lb<br/>0 lb<br/>16 lb<br/>0 lb<br/>-----<br/>Structure Total: 6551 lb</p> |      | <p>Structure Notes: .<br/>1. PER ASTM C478 SPECIFICATIONS.<br/>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br/>3. ADMIXTURE = XYPEX C-500 NF RED<br/>4. CASTING BY OTHERS (JBS 1155 F/C SANITARY).<br/>REINFORCING PER ASTM A615 (GRADE 60).<br/>- CONE (As .12)<br/>- RISER (As .12)<br/>- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.</p> |        |        |  |  |
| Rim: 805.87' Rim to Invert: 5.14' Slack: 0.68" Sump: 2" Step Position: 108.5°                                                                                                                                                                                                                                                                                                                                                                                                   |         |       |           |                                    |         | INVERT CHANNEL DRAWING<br>FULL HEIGHT INVERT                                                                                                             |      |                                                                                                                                                                                                                                                                                                                                |        |        |  |  |
| Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Elev    | Angle | Ext. (cw) | Pipe                               | Pipe OD | Connector                                                                                                                                                | Hole | Horz Size                                                                                                                                                                                                                                                                                                                      | Up ( ) | Offset |  |  |
| Invert 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 800.73' | 0°    | 0"        | 8" PVC SDR26                       | 8.5"    | PSX 12-08 NYLO                                                                                                                                           | 12"  | 12.129"                                                                                                                                                                                                                                                                                                                        | 0"     | 0"     |  |  |
| Invert 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 800.93' | 217°  | 109.834"  | 8" PVC SDR26                       | 8.5"    | PSX 12-08 NYLO                                                                                                                                           | 12"  | 12.129"                                                                                                                                                                                                                                                                                                                        | 2.4"   | 0"     |  |  |
| Invert 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |       |           |                                    |         |                                                                                                                                                          |      |                                                                                                                                                                                                                                                                                                                                |        |        |  |  |
| Invert 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |       |           |                                    |         |                                                                                                                                                          |      |                                                                                                                                                                                                                                                                                                                                |        |        |  |  |
| Invert 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |       |           |                                    |         |                                                                                                                                                          |      |                                                                                                                                                                                                                                                                                                                                |        |        |  |  |
| Invert 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |       |           |                                    |         |                                                                                                                                                          |      |                                                                                                                                                                                                                                                                                                                                |        |        |  |  |
| Invert 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |       |           |                                    |         |                                                                                                                                                          |      |                                                                                                                                                                                                                                                                                                                                |        |        |  |  |
| Invert 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |       |           |                                    |         |                                                                                                                                                          |      |                                                                                                                                                                                                                                                                                                                                |        |        |  |  |



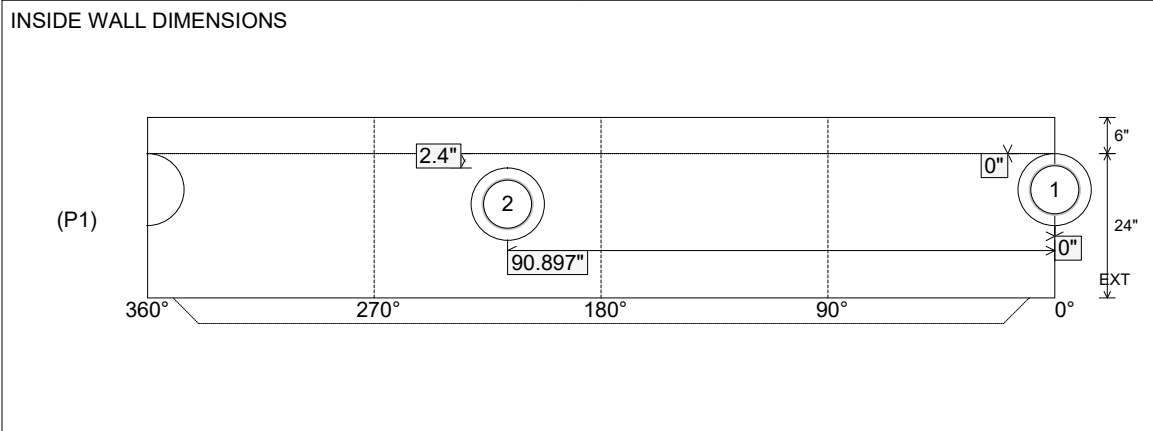
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
Coating (Ext):

Seam Up: Tongue  
Seam Dn: n/a

Wall Thickness: 5"  
Floor Height: 6"

Height (Int): 24"  
Height (Ext): 30"

Weight (Net): 2911 lb  
Volume (Net): 0.74cu.yd

Job Name: 26-1651B Buffalo Trace  
Job Location: Campbellsville, KY  
Contractor: Buzick Construction

Plant: Beaver Dam  
6/26/2026 2:23:09 PM

Tech: S. Felletter  
PC: E. Bradley



**Structure ID: CB 791.43 - TOP**

**P1 MH048LD07S**

**MH FLAT TOP w/34"x34" Hole F/F**

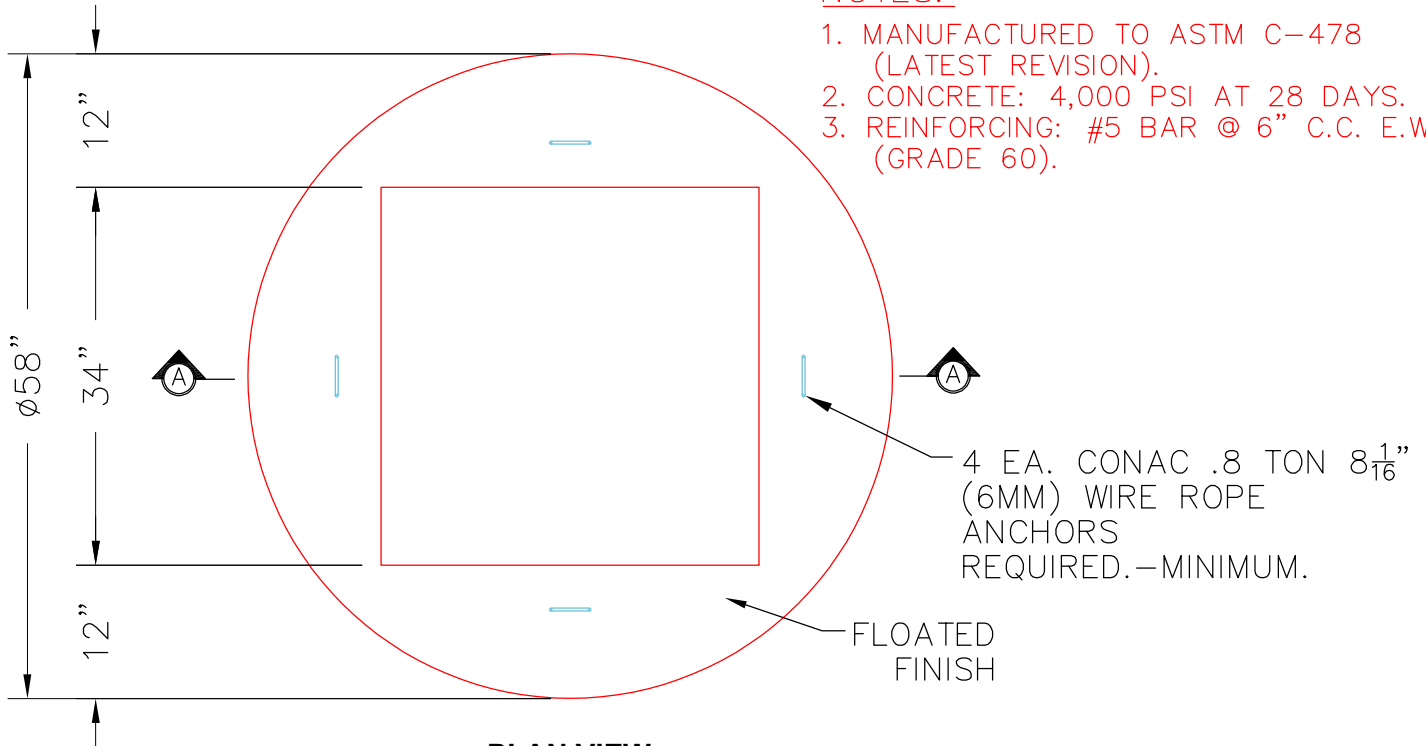
P2) 34" x 34" - CASTING HEIGHT - 3"  
P1) 48" - MH FLAT TOP w/34"x34" Hole F/F - 7"  
1) CASTING - HOE 595 F/G

0 lb  
873 lb  
376 lb  
Structure Total: 1249 lb

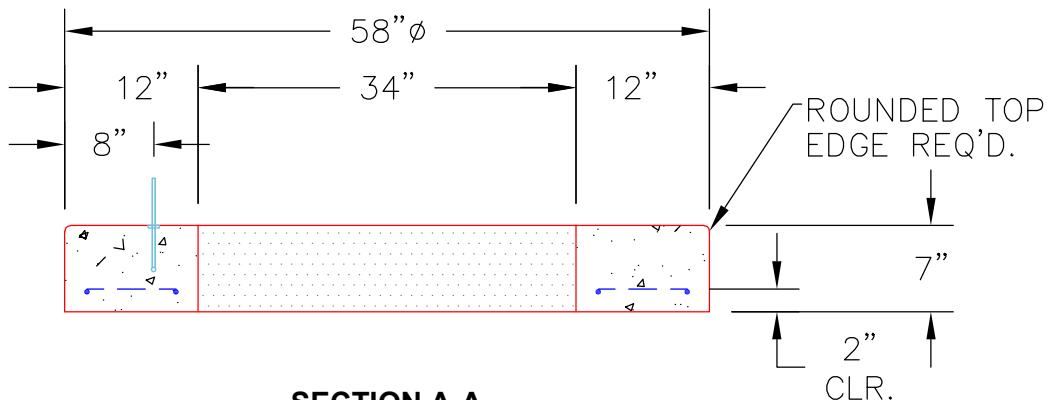
Structure Notes:  
1. PER ASTM C478 SPECIFICATIONS.  
2. CONCRETE = 4,000 PSI AT 28 DAYS.  
3. CASTING BY ICAST (HOE 595 F/C).  
  
REINFORCING PER ASTM A615 (GRADE 60).  
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..  
- RISER/WALLS (As .12)  
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 6" C.C. E.W. (GRADE 60).



**PLAN VIEW**



**SECTION A-A**

Coating (Int):  
Coating (Ext):

Seam Up: Flat  
Seam Dn: Flat

Wall Thickness: 5"

Height (Ext): 7"

Weight (Net): 873 lb  
Volume (Net): 0.22cu.yd

Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion

Job Location: Shepherdsville, KY

Contractor: Pace Contracting, LLC

Plant: 100

5/29/2026 3:21:11 PM

Tech: Jared - F

PC: J Jarvis



Structure ID: MH-7

P1 MH048BA30

MH BASE T/n

P3) 24" - CASTING HEIGHT - 7"

P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"

P1) 48" - MH BASE T/n - 30"

1) Chimney Seal - Cretex Chimney Seal

1) 48" - MH INVERT CHANNEL - FULL HEIGHT

1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212

1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)

1) CASTING - HOE MC-375-WT F/C Sanitary

1) 48" - Conseal CS-102 1.00" (Double)

2) PSX - 12M NYLO

2) MH Step ML-10-TDS-NCR - 10"

0 lb

1561 lb

3330 lb

10 lb

1440 lb

0 lb

0 lb

271 lb

0 lb

16 lb

0 lb

Structure Total: 6628 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

2. CONCRETE = 4,000 PSI AT 28 DAYS.

3. CASTING SUPPLIED BY I-CAST (HOE MC-375-WT F/C SANITARY).

4. 8.5" EXTERNAL CHIMNEY SEAL BY I-CAST.

REINFORCING PER ASTM A615 (GRADE 60).

- TOP SLAB = H20 LOADING.

- RISER/WALLS (As .12)

- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 446'

Rim to Invert: 4'

Slack: 1"

Sump: 2"

Step Position: 270

| Position | Elev   | Angle | Ext. (cw) | Pipe  | Pipe OD | Connector    | Hole | Horz Size | Up ( ) | Offset |
|----------|--------|-------|-----------|-------|---------|--------------|------|-----------|--------|--------|
| Invert 1 | 442'   | 0°    | 0"        | 8" DI | 9"      | PSX 12M NYLO | 12"  | 12.129"   | 0"     | 0"     |
| Invert 2 | 442.1' | 134°  | 67.875"   | 8" DI | 9"      | PSX 12M NYLO | 12"  | 12.129"   | 1.25"  | 0"     |
| Invert 3 |        |       |           |       |         |              |      |           |        |        |
| Invert 4 |        |       |           |       |         |              |      |           |        |        |
| Invert 5 |        |       |           |       |         |              |      |           |        |        |
| Invert 6 |        |       |           |       |         |              |      |           |        |        |
| Invert 7 |        |       |           |       |         |              |      |           |        |        |
| Invert 8 |        |       |           |       |         |              |      |           |        |        |

RIGHT-SIDE UP VIEW (int. dimensions)

Invert: 2  
Degree: 134°  
Horz: 56.125"  
Hole: 12"  
Up( ): 1.25"

Step: 270°  
Horz: 113.125"

Invert: 1  
Degree: 0°  
Horz: 0"  
Hole: 12"  
Up( ): 0"

UPSIDE-DOWN VIEW (int. dimensions)

Invert: 2  
Degree: 134°  
Horz: 56.125"  
Hole: 12"  
Up( ): 1.25"

Step: 270°  
Horz: 113.125"

Invert: 1  
Degree: 0°  
Horz: 0"  
Hole: 12"  
Up( ): 0"

(P3)

(P2)

(P1) <<

INSIDE WALL DIMENSIONS

(P1)

1.25"

0"

56.125"

0"

360°

270°

180°

90°

0°

6"

30"

EXT

Coating (Int):

Coating (Ext):

Seam Up: Tongue  
Seam Dn: n/a

Wall Thickness: 5"  
Floor Height: 6"

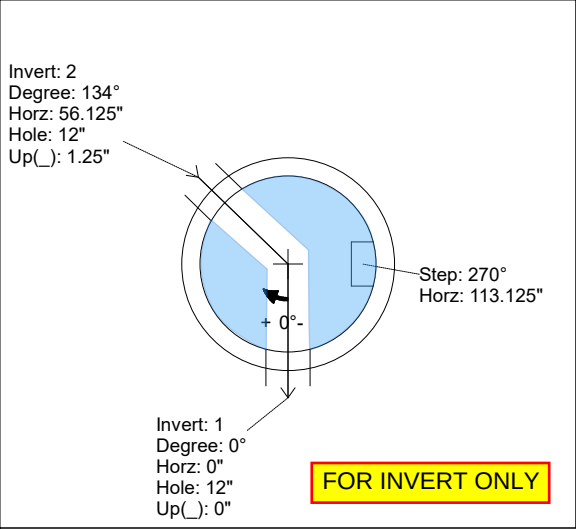
Height (Int): 30"  
Height (Ext): 36"

Weight (Net): 3330 lb  
Volume (Net): 0.85cu.yd

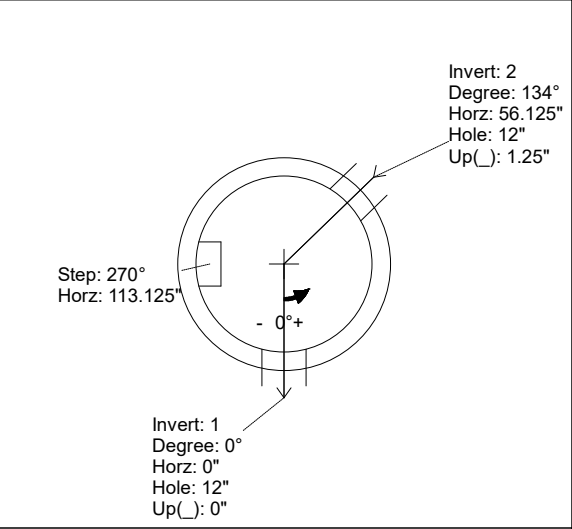


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                   |           |                                    |         |                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------|-----------|------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| Job Name: 25-4547 - WWTP Improvements & Hydraulic Expansion<br>Job Location: Shepherdsville, KY<br>Contractor: Pace Contracting, LLC                                                                                                                                                                                                                                                                                                                              |        |                   |           | Plant: 100<br>5/29/2026 3:21:11 PM |         | Tech: Jared - F<br>PC: J Jarvis                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                |        |        |
| Structure ID: MH-7                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                   |           |                                    |         |                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |        |
| P1 MH048BA30                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        | MH BASE T/n       |           |                                    |         |                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |        |
| <p>P3) 24" - CASTING HEIGHT - 7"<br/>P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"<br/>P1) 48" - MH BASE T/n - 30"<br/>1) Chimney Seal - Cretex Chimney Seal<br/>1) 48" - MH INVERT CHANNEL - FULL HEIGHT<br/>1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212<br/>1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)<br/>1) CASTING - HOE MC-375-WT F/C Sanitary<br/>1) 48" - Conseal CS-102 1.00" (Double)<br/>2) PSX - 12M NYLO<br/>2) MH Step ML-10-TDS-NCR - 10"</p> |        |                   |           |                                    |         | <p>0 lb<br/>1561 lb<br/>3330 lb<br/>10 lb<br/>1440 lb<br/>0 lb<br/>0 lb<br/>271 lb<br/>0 lb<br/>16 lb<br/>0 lb<br/>-----<br/>Structure Total: 6628 lb</p> |      | <p>Structure Notes:</p> <ol style="list-style-type: none"><li>1. PER ASTM C478 SPECIFICATIONS.</li><li>2. CONCRETE = 4,000 PSI AT 28 DAYS.</li><li>3. CASTING SUPPLIED BY I-CAST (HOE MC-375-WT F/C SANITARY).</li><li>4. 8.5" EXTERNAL CHIMNEY SEAL BY I-CAST.</li></ol> <p>REINFORCING PER ASTM A615 (GRADE 60).</p> <ul style="list-style-type: none"><li>- TOP SLAB = H20 LOADING.</li><li>- RISER/WALLS (As .12)</li><li>- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.</li></ul> |        |        |
| Rim: 446'                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | Rim to Invert: 4' |           | Slack: 1"                          |         | Sump: 2"                                                                                                                                                  |      | Step Position: 270                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |        |
| Position                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Elev   | Angle             | Ext. (cw) | Pipe                               | Pipe OD | Connector                                                                                                                                                 | Hole | Horz Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Up ( ) | Offset |
| Invert 1                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 442'   | 0°                | 0"        | 8" DI                              | 9"      | PSX 12M NYLO                                                                                                                                              | 12"  | 12.129"                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0"     | 0"     |
| Invert 2                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 442.1' | 134°              | 67.875"   | 8" DI                              | 9"      | PSX 12M NYLO                                                                                                                                              | 12"  | 12.129"                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.25"  | 0"     |
| Invert 3                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                   |           |                                    |         |                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |        |
| Invert 4                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                   |           |                                    |         |                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |        |
| Invert 5                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                   |           |                                    |         |                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |        |
| Invert 6                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                   |           |                                    |         |                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |        |
| Invert 7                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                   |           |                                    |         |                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |        |
| Invert 8                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                   |           |                                    |         |                                                                                                                                                           |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |        |

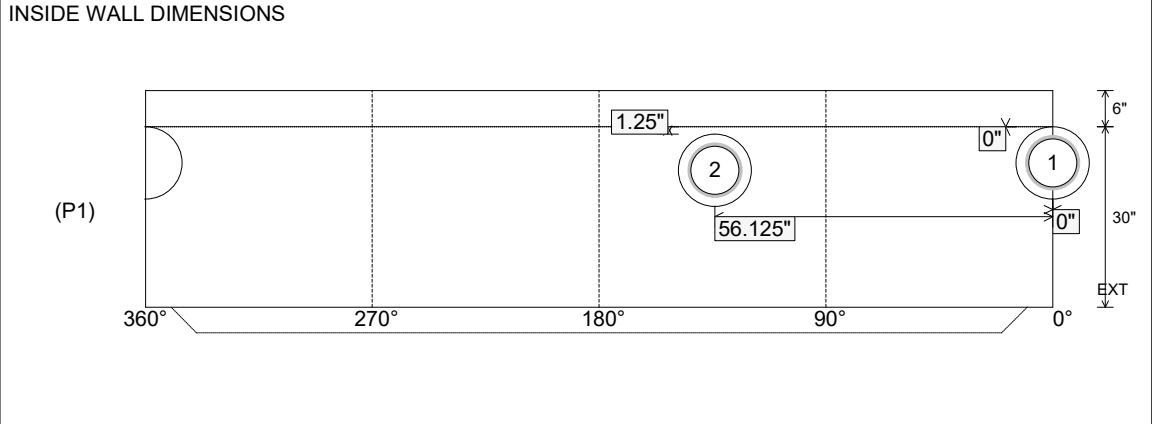
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

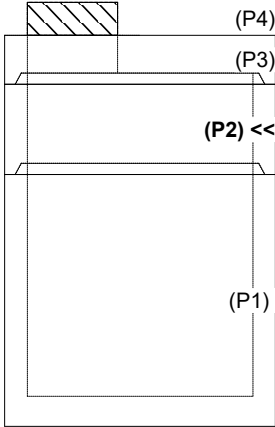


INSIDE WALL DIMENSIONS

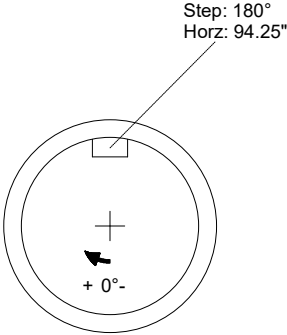


|                                  |                                 |                                        |                                        |                                                  |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Tongue<br>Seam Dn: n/a | Wall Thickness: 5"<br>Floor Height: 6" | Height (Int): 30"<br>Height (Ext): 36" | Weight (Net): 3330 lb<br>Volume (Net): 0.85cu.yd |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|

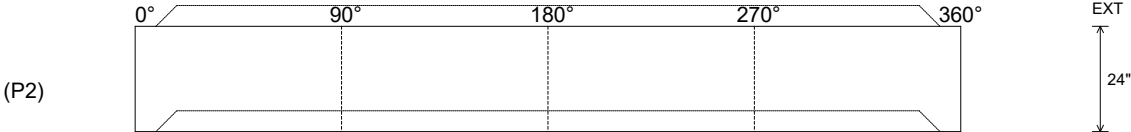
|                                                                                                                                                                                                                                                                                                                    |      |           |           |              |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|-----------|--------------|---------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192)<br>Job Location: Parkersburg, WV<br>Contractor: Triton Construction                                                                                                                                                                                               |      |           |           |              | Plant: 100<br>3/26/2026 1:42:34 PM                                                                      |           | Tech: Jared - F<br>PC: E. Bradley                                                                                                                                                                                                                                                                                                                                                        |           |  |        |  |
| Structure ID: MH-07                                                                                                                                                                                                                                                                                                |      |           |           |              |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |
| P2                                                                                                                                                                                                                                                                                                                 |      | MH060RS24 |           | MH RISER T/G |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |
| <p>P4) 24" - CASTING HEIGHT - 8.85"<br/>P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13"<br/>P2) 60" - MH RISER T/G - 24"<br/>P1) 60" - MH BASE Custom Ht T/n - 59"<br/>1) CASTING - NEENAH R-1785 (F/C)<br/>2) 60" - Conseal CS-102 1.00"<br/>1) Hole - 40<br/>1) Hole - 38<br/>7) MH Step ML-10-TDS-NCR - 10"</p> |      |           |           |              | <p>0 lb<br/>2869 lb<br/>2505 lb<br/>7601 lb<br/>294 lb<br/>0 lb<br/>0 lb<br/>0 lb<br/>0 lb<br/>0 lb</p> |           | <p>Structure Notes:<br/>**WVDOT STATE PROJECT**<br/>1. PER ASTM C478 SPECIFICATIONS.<br/>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br/>3. INVERT CHANNEL (BY OTHERS).<br/>4. CASTING BY I-CAST (NEENAH R-1785 (F/C)).</p> <p>REINFORCING PER ASTM A615 (GRADE 60).<br/>- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..<br/>- RISER/WALLS (As .18)<br/>- FLOOR (As .37) #5 BARS AT 10" C.C.E.W.</p> |           |                                                                                    |        |  |
| Structure Total: 13269 lb                                                                                                                                                                                                                                                                                          |      |           |           |              |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |
| Rim: 602.3' Rim to Invert: 8.8' Slack: 0.75" Sump: 0" Step Position: 180                                                                                                                                                                                                                                           |      |           |           |              |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                                                           | Elev | Angle     | Ext. (cw) | Pipe         | Pipe OD                                                                                                 | Connector | Hole                                                                                                                                                                                                                                                                                                                                                                                     | Horz Size | Up ( _ )                                                                           | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                                                           |      |           |           |              |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |
| Invert 2                                                                                                                                                                                                                                                                                                           |      |           |           |              |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |
| Invert 3                                                                                                                                                                                                                                                                                                           |      |           |           |              |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |
| Invert 4                                                                                                                                                                                                                                                                                                           |      |           |           |              |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                                                           |      |           |           |              |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                                                           |      |           |           |              |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                                                           |      |           |           |              |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                                                           |      |           |           |              |                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                    |        |  |



RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



|                                  |                                    |                                        |                                        |                                                  |
|----------------------------------|------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Tongue<br>Seam Dn: Groove | Wall Thickness: 6"<br>Floor Height: 0" | Height (Int): 24"<br>Height (Ext): 24" | Weight (Net): 2505 lb<br>Volume (Net): 0.64cu.yd |
|----------------------------------|------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|

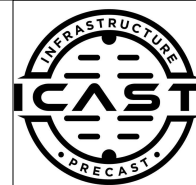
Job Name: 25-4212 - Greentree Lane Sewer  
Job Location: Mt. Washington, KY  
Contractor: Citgo Waterworks

Plant: 100

6/30/2026 12:38:37 PM

Tech: J. Horsley - F

PC: C. Goff



## Structure ID: B1 REV.B

### P2 MH060RSVF

### MH RISER Custom Ht

- P5) 24" - CASTING HEIGHT - 4.75"  
P4) 48" - ECC CONE w/ 24" HOLE NO STEP - 24"  
P3) 60" - MH Transition Slab 48" Hole - 13"  
P2) 60" - MH RISER Custom Ht - 50"  
P1) 60" - P.I.P. BY OTHERS - BTM SLAB - 0"  
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212  
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)  
1) SPECIAL EXTERNAL COATING - CARBOLINE 300M  
2) 60" - DBL 1"x14.5' Butyl (2x)  
1) 48" - DBL 1"x14.5' Butyl (2x)  
1) PSX - 16M NYLO  
2) DOGHOUSE - 16"x22"  
154.16 SqFt) Carboline Bitumastic 300M [EXT]

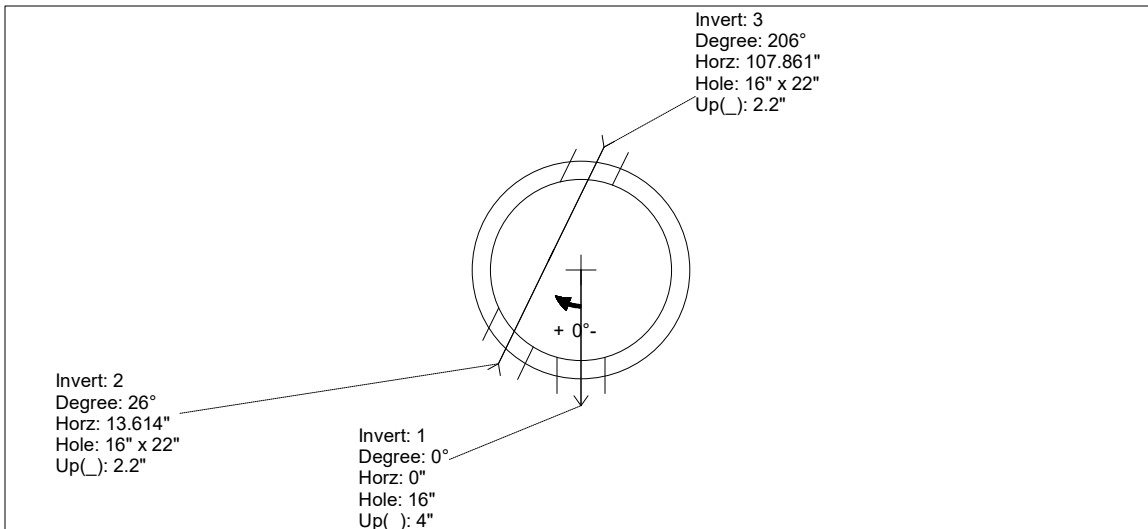
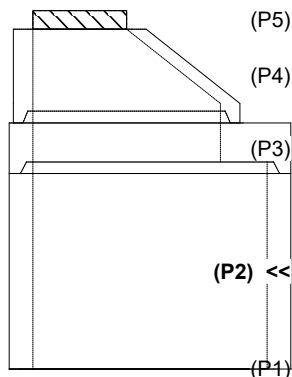
- 0 lb  
1550 lb  
1928 lb  
4737 lb  
0 lb  
0 lb  
0 lb  
0 lb  
0 lb  
0 lb  
8 lb  
0 lb  
0 lb  
0 lb
- Structure Notes:**  
1. PER ASTM C478 SPECIFICATIONS.  
2. CONCRETE = 4,000 PSI AT 28 DAYS.  
3. NO STEPS.  
4. CASTING SUPPLIED BY OTHERS.  
5. CARBOLINE 300M >>EXTERIOR COATING ONLY<<  
6. INVERTS 2 & 3 OFFSET 11" FROM CENTER  
REINFORCING PER ASTM A615 (GRADE 60).  
- CONE (As .12)  
- RISER/WALLS (As .12)  
- TRANSITION SLAB (As .31) #5 BARS AT 6" C.C.E.W.  
- RISER/WALLS (As .18)

Structure Total: 8223 lb

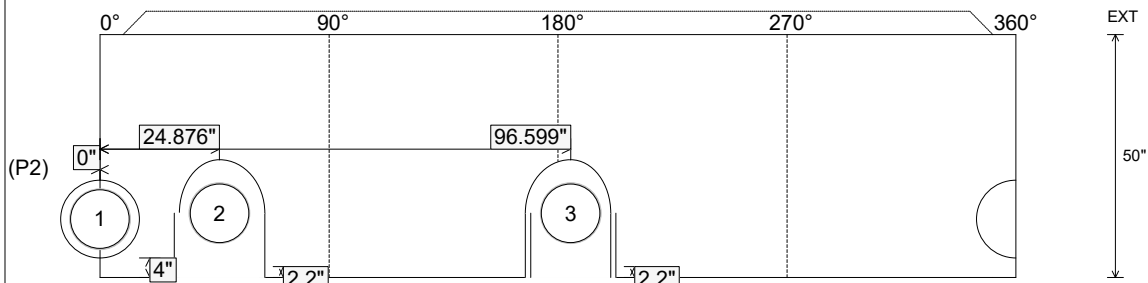
Rim: 670.82' Rim to Invert: 7.15' Slack: 0.05' Sump: 6" Step Position:

| Position | Elev    | Angle | Ext. (cw) | Pipe          | Pipe OD | Connector        | Hole      | Horz Size | Up ( ) | Offset |
|----------|---------|-------|-----------|---------------|---------|------------------|-----------|-----------|--------|--------|
| Invert 1 | 663.67' | 0°    | 0"        | 12" PVC SDR35 | 12.5"   | PSX 16M NYLO     | 16"       | 16.196"   | 4"     | 0"     |
| Invert 2 | 663.77' | 26°   | 27.515"   | 12" PVC SDR35 | 12.5"   | DOGHOUSE 16"x22" | 16" x 22" | 17.571"   | 2.2"   | 11"    |
| Invert 3 | 663.77' | 206°  | 118.255"  | 12" PVC SDR35 | 12.5"   | DOGHOUSE 16"x22" | 16" x 22" | 17.571"   | 2.2"   | -11"   |
| Invert 4 |         |       |           |               |         |                  |           |           |        |        |
| Invert 5 |         |       |           |               |         |                  |           |           |        |        |
| Invert 6 |         |       |           |               |         |                  |           |           |        |        |
| Invert 7 |         |       |           |               |         |                  |           |           |        |        |
| Invert 8 |         |       |           |               |         |                  |           |           |        |        |

#### RIGHT-SIDE UP VIEW (int. dimensions)



#### INSIDE WALL DIMENSIONS



Coating (Int):  
Coating (Ext): Carboline Bitumastic 300M

Seam Up: Tongue  
Seam Dn: Flat

Wall Thickness: 6"  
Floor Height: 0"

Height (Int): 50"  
Height (Ext): 50"

Weight (Net): 4737 lb  
Volume (Net): 1.21cu.yd

Job Name: 25-4212 - Greentree Lane Sewer  
Job Location: Mt. Washington, KY  
Contractor: Citgo Waterworks

Plant: 100

6/30/2026 12:37:20 PM

Tech: J. Horsley - F

PC: C. Goff



## Structure ID: A11 REV.A

### P1 MH060BAVF

### MH BASE Custom Ht

- P4) 24" - CASTING HEIGHT - 4.75"  
P3) 48" - ECC CONE w/ 24" HOLE NO STEP - 24"  
P2) 60" - MH Transition Slab 48" Hole - 13"  
P1) 60" - MH BASE Custom Ht - 48"  
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212  
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)  
1) 60" - MH INVERT CHANNEL - FULL HEIGHT  
1) SPECIAL EXTERNAL COATING - CARBOLINE 300M  
1) 60" - Conseal CS-102 1.00" (Double)  
1) 48" - Conseal CS-102 1.00" (Double)  
1) 24" - Conseal CS-102 1.00" (Double)  
1) Kor-N-Seal2 - S206-22  
1) PSX - 12-06 NYLO  
1) PSX - 14M DD  
163.59 SqFt) Carboline Bitumastic 300M [EXT]

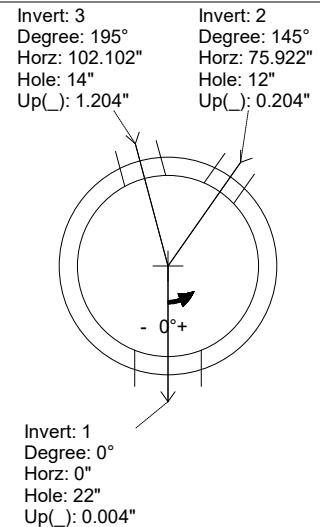
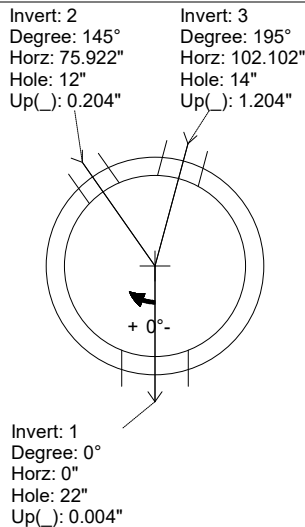
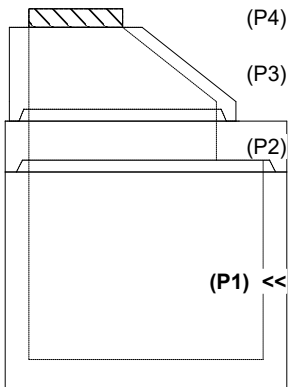
- 0 lb  
1550 lb  
1928 lb  
7413 lb  
0 lb  
0 lb  
2692 lb  
0 lb  
0 lb  
0 lb  
0 lb  
6 lb  
8 lb  
8 lb  
0 lb
- Structure Notes:**  
1. PER ASTM C478 SPECIFICATIONS.  
2. CONCRETE = 4,000 PSI AT 28 DAYS.  
3. NO STEPS.  
4. CASTING SUPPLIED BY OTHERS.  
5. CARBOLINE 300M >>EXTERIOR COATING ONLY<<  
REINFORCING PER ASTM A615 (GRADE 60).  
- CONE (As .12)  
- RISER/WALLS (As .12)  
- TRANSITION SLAB (As .31) #5 BARS AT 6" C.C.E.W.  
- RISER/WALLS (As .18)  
- FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

Rim: 696.33' Rim to Invert: 7.39' Slack: 0.934' Sump: 2.004' Structure Seal: 12605 lb

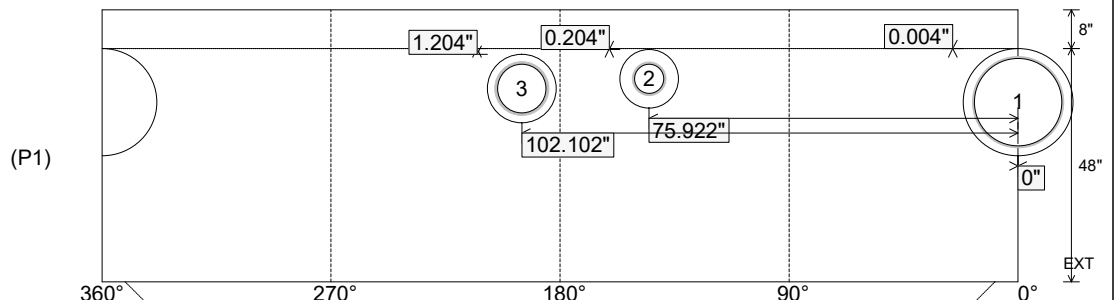
| Position | Elev    | Angle | Ext. (cw) | Pipe          | Pipe OD | Connector           | Hole | Horz Size | Up ( ) | Offset |
|----------|---------|-------|-----------|---------------|---------|---------------------|------|-----------|--------|--------|
| Invert 1 | 688.94' | 0°    | 0"        | 18" PVC SDR35 | 18.75"  | Kor-N-Seal2 S206-22 | 22"  | 22.525"   | 0.004" | 0"     |
| Invert 2 | 689.04' | 145°  | 91.106"   | 6" DI         | 6.875"  | PSX 12-06 NYLO      | 12"  | 12.081"   | 0.204" | 0"     |
| Invert 3 | 689.04' | 195°  | 122.522"  | 10" DI        | 11.1"   | PSX 14M DD          | 14"  | 14.13"    | 1.204" | 0"     |
| Invert 4 |         |       |           |               |         |                     |      |           |        |        |
| Invert 5 |         |       |           |               |         |                     |      |           |        |        |
| Invert 6 |         |       |           |               |         |                     |      |           |        |        |
| Invert 7 |         |       |           |               |         |                     |      |           |        |        |
| Invert 8 |         |       |           |               |         |                     |      |           |        |        |

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
Coating (Ext): Carboline Bitumastic 300M

Seam Up: Tongue  
Seam Dn: n/a

Wall Thickness: 6"  
Floor Height: 8"

Height (Int): 48"  
Height (Ext): 56"

Weight (Net): 7413 lb  
Volume (Net): 1.89cu.yd

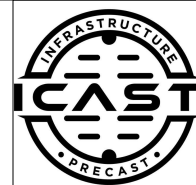
Job Name: 25-4212 - Greentree Lane Sewer  
Job Location: Mt. Washington, KY  
Contractor: Citgo Waterworks

Plant: 100

6/30/2026 12:37:20 PM

Tech: J. Horsley - F

PC: C. Goff



## Structure ID: A11 REV.A

### P1 MH060BAVF

### MH BASE Custom Ht

- P4) 24" - CASTING HEIGHT - 4.75"  
P3) 48" - ECC CONE w/ 24" HOLE NO STEP - 24"  
P2) 60" - MH Transition Slab 48" Hole - 13"  
P1) 60" - MH BASE Custom Ht - 48"  
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212  
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)  
1) 60" - MH INVERT CHANNEL - FULL HEIGHT  
1) SPECIAL EXTERNAL COATING - CARBOLINE 300M  
1) 60" - Conseal CS-102 1.00" (Double)  
1) 48" - Conseal CS-102 1.00" (Double)  
1) 24" - Conseal CS-102 1.00" (Double)  
1) Kor-N-Seal2 - S206-22  
1) PSX - 12-06 NYLO  
1) PSX - 14M DD  
163.59 SqFt) Carboline Bitumastic 300M [EXT]

- 0 lb  
1550 lb  
1928 lb  
7413 lb  
0 lb  
0 lb  
2692 lb  
0 lb  
0 lb  
0 lb  
0 lb  
6 lb  
8 lb  
8 lb  
0 lb
- Structure Notes:**  
1. PER ASTM C478 SPECIFICATIONS.  
2. CONCRETE = 4,000 PSI AT 28 DAYS.  
3. NO STEPS.  
4. CASTING SUPPLIED BY OTHERS.  
5. CARBOLINE 300M >>EXTERIOR COATING ONLY<<  
REINFORCING PER ASTM A615 (GRADE 60).  
- CONE (As .12)  
- RISER/WALLS (As .12)  
- TRANSITION SLAB (As .31) #5 BARS AT 6" C.C.E.W.  
- RISER/WALLS (As .18)  
- FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

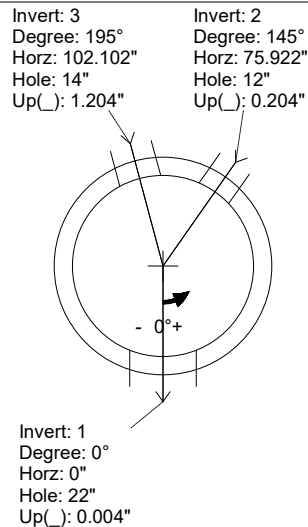
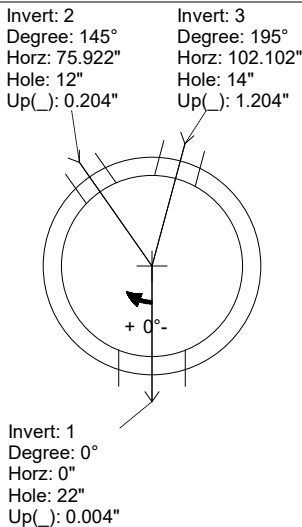
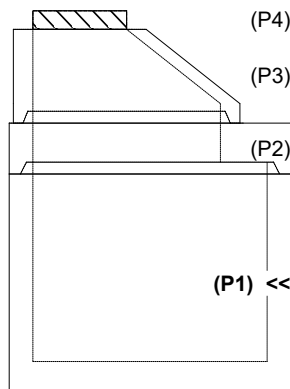
**INVERT CHANNEL DRAWING  
FULL HEIGHT INVERT**

Rim: 696.33' Rim to Invert: 7.39' Slack: 0.934" Sump: 2.004' Structure Seal: 12605 lb

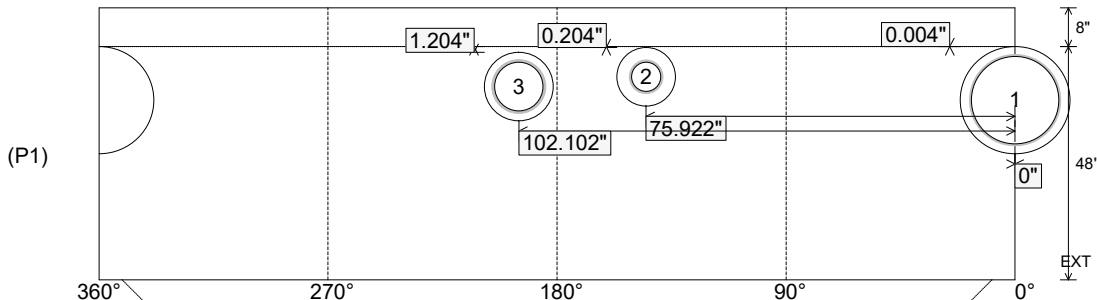
| Position | Elev    | Angle | Ext. (cw) | Pipe          | Pipe OD | Connector           | Hole | Horz Size | Up ( ) | Offset |
|----------|---------|-------|-----------|---------------|---------|---------------------|------|-----------|--------|--------|
| Invert 1 | 688.94' | 0°    | 0"        | 18" PVC SDR35 | 18.75"  | Kor-N-Seal2 S206-22 | 22"  | 22.525"   | 0.004" | 0"     |
| Invert 2 | 689.04' | 145°  | 91.106"   | 6" DI         | 6.875"  | PSX 12-06 NYLO      | 12"  | 12.081"   | 0.204" | 0"     |
| Invert 3 | 689.04' | 195°  | 122.522"  | 10" DI        | 11.1"   | PSX 14M DD          | 14"  | 14.13"    | 1.204" | 0"     |
| Invert 4 |         |       |           |               |         |                     |      |           |        |        |
| Invert 5 |         |       |           |               |         |                     |      |           |        |        |
| Invert 6 |         |       |           |               |         |                     |      |           |        |        |
| Invert 7 |         |       |           |               |         |                     |      |           |        |        |
| Invert 8 |         |       |           |               |         |                     |      |           |        |        |

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
Coating (Ext): Carboline Bitumastic 300M

Seam Up: Tongue  
Seam Dn: n/a

Wall Thickness: 6"  
Floor Height: 8"

Height (Int): 48"  
Height (Ext): 56"

Weight (Net): 7413 lb  
Volume (Net): 1.89cu.yd

Job Name: 25-3062 Portland Bypass  
Job Location: Portland, TN  
Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam  
6/1/2026 8:24:16 AM

Tech: J. Coppage  
PC: C. Goff



Structure ID: CB-23

P2 MH060LD10SP

MH FLAT TOP - TDOT NO 12 (28"x34" Hole)

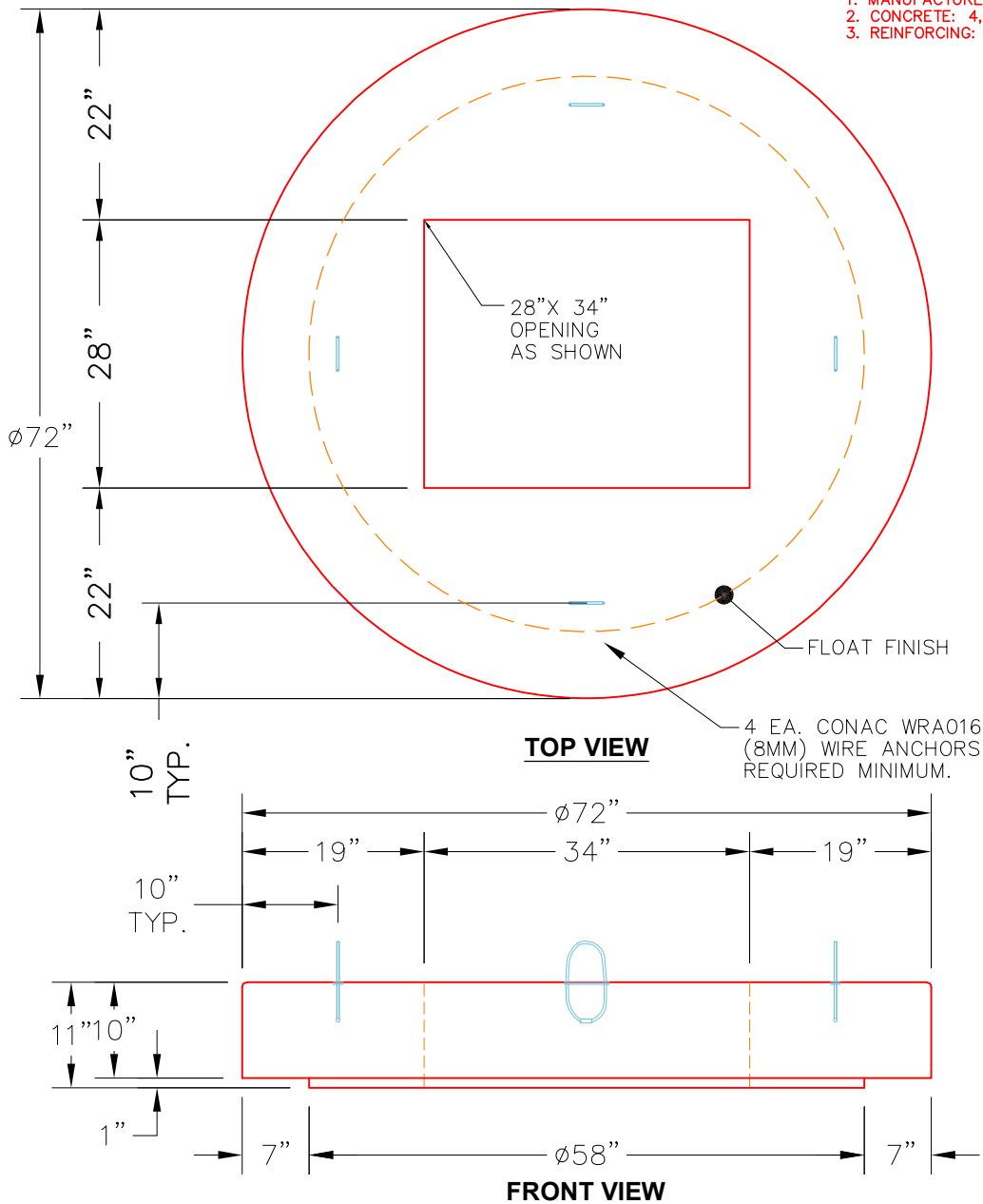
- P3) 28" x 34" - CASTING HEIGHT - 7"  
P2) 60" - MH FLAT TOP - TDOT NO 12 (28"x34" Hole) - 10"  
P1) 60" - MH BASE Custom Ht - 44"  
1) CASTING - JBS-3123 MODIFIED SET  
1) 60" - Conseal CS-102 1.00"  
1) 28" x 34" - Conseal CS-102 1.00"  
1) Hole - 39  
1) Hole - 32  
1) Hole - 6

- 0 lb  
3417 lb  
6244 lb  
250 lb  
0 lb  
0 lb  
0 lb  
0 lb  
0 lb  
0 lb  
Structure Notes:  
1. PER TDOT D-CB-12RB / ASTM C478 SPEC'S.  
2. CONCRETE = 4,000 PSI AT 28 DAYS.  
3. JBS 3123 MOD SINGLE SET BY ICAST  
4. REINFORCING PER ASTM A615 (GRADE 60).  
\*\* PER TDOT STD DRAWING D-CB-12RB \*\*  
- TOP SLAB - DBL MAT #5 BARS.  
- RISER (As .18)

Structure Total: 9911 lb

NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).  
2. CONCRETE: 4,000 PSI AT 28 DAYS.  
3. REINFORCING: PER TDOT DRAWING D-CB-12RA  
OR D-RL-1 FOR WWM OPTION.



Coating (Int):  
Coating (Ext):

Seam Up: Flat  
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 10"

Weight (Net): 3417 lb  
Volume (Net): 0.87cu.yd

Job Name: 25-3062 Portland Bypass  
Job Location: Portland, TN  
Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam  
6/1/2026 8:23:06 AM

Tech: J. Coppage  
PC: C. Goff



## Structure ID: CB-32

### P1 MH072BAVF

### MH BASE Custom Ht

- P3) 28" x 34" - CASTING HEIGHT - 7"  
P2) 72" - MH FLAT TOP - TDOT NO 12 (28"x34" Hole) - 10"  
P1) 72" - MH BASE Custom Ht - 75"  
1) CASTING - JBS-3123 MODIFIED SET  
1) 72" - Conseal CS-102 1.00"  
1) 28" x 34" - Conseal CS-102 1.00"  
2) Hole - 58 x 42  
1) Hole - 6

- Structure Notes:  
1. PER TDOT D-CB-12RB / ASTM C478 SPEC'S.  
2. CONCRETE = 4,000 PSI AT 28 DAYS.  
3. JBS 3123 MOD SINGLE SET BY ICAST  
4. REINFORCING PER ASTM A615 (GRADE 60).  
\*\* PER TDOT STD DRAWING D-CB-12RB \*\*  
- TOP SLAB - DBL MAT #5 BARS.  
- RISER (As .18)  
- FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

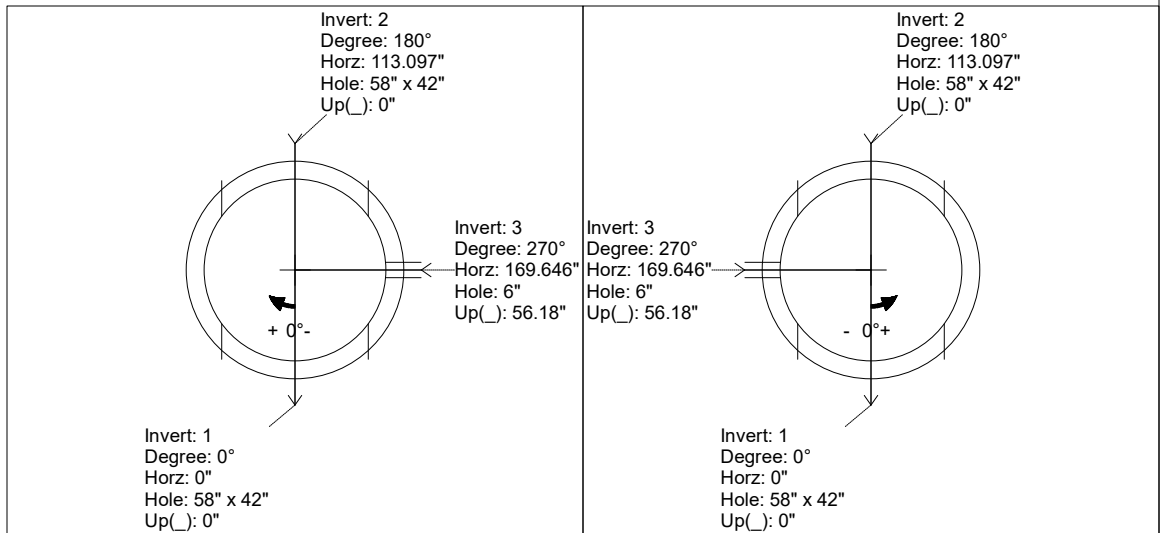
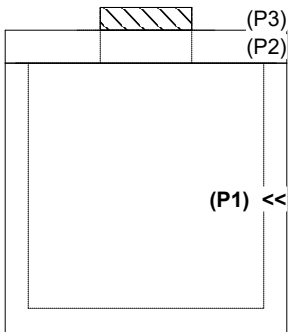
Structure Total: 16932 lb

Rim: 812.49' Rim to Invert: 7.34' Slack: 0.58" Sump: 4.5" Step Position:

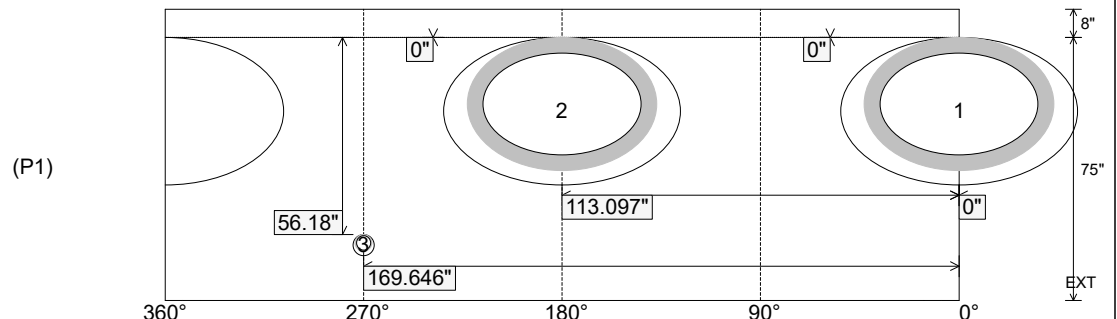
| Position | Elev    | Angle | Ext. (cw) | Pipe                | Pipe OD   | Connector    | Hole      | Horz Size | Up ( ) | Offset |
|----------|---------|-------|-----------|---------------------|-----------|--------------|-----------|-----------|--------|--------|
| Invert 1 | 805.15' | 0°    | 0"        | 45" x 29" ELL RCP   | 54" x 38" | Hole 58 x 42 | 58" x 42" | 67.436"   | 0"     | 0"     |
| Invert 2 | 805.15' | 180°  | 135.088"  | 45" x 29" ELL RCP   | 54" x 38" | Hole 58 x 42 | 58" x 42" | 67.436"   | 0"     | 0"     |
| Invert 3 | 809.49' | 270°  | 202.633"  | 4" HDPE (perf pipe) | 4.8"      | Hole 6       | 6"        | 6.007"    | 56.18" | 0"     |
| Invert 4 |         |       |           |                     |           |              |           |           |        |        |
| Invert 5 |         |       |           |                     |           |              |           |           |        |        |
| Invert 6 |         |       |           |                     |           |              |           |           |        |        |
| Invert 7 |         |       |           |                     |           |              |           |           |        |        |
| Invert 8 |         |       |           |                     |           |              |           |           |        |        |

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
Coating (Ext):

Seam Up: Flat  
Seam Dn: n/a

Wall Thickness: 7"  
Floor Height: 8"

Height (Int): 75"  
Height (Ext): 83"

Weight (Net): 12276 lb  
Volume (Net): 3.14cu.yd

Job Name: 25-3062 Portland Bypass  
Job Location: Portland, TN  
Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam  
6/1/2026 8:24:17 AM

Tech: J. Coppage  
PC: C. Goff



## Structure ID: CB-32

### P2 MH072LD10SP

### MH FLAT TOP - TDOT NO 12 (28"x34" Hole)

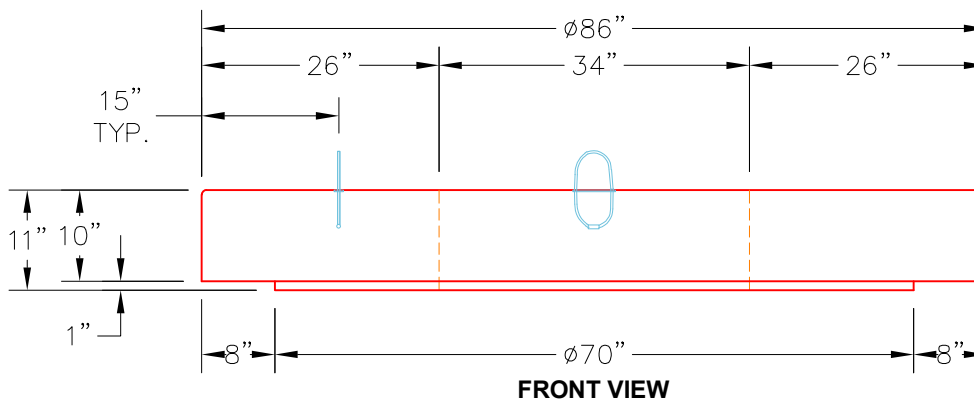
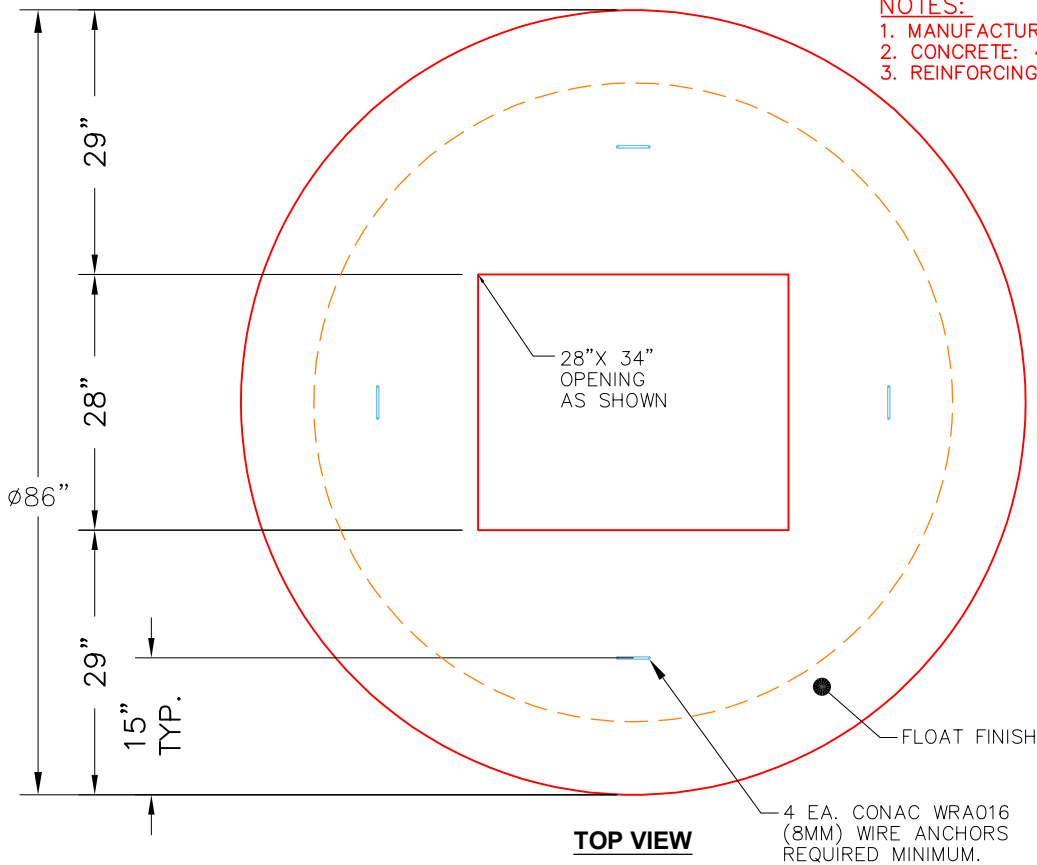
- P3) 28" x 34" - CASTING HEIGHT - 7"  
P2) 72" - MH FLAT TOP - TDOT NO 12 (28"x34" Hole) - 10"  
P1) 72" - MH BASE Custom Ht - 75"  
1) CASTING - JBS-3123 MODIFIED SET  
1) 72" - Conseal CS-102 1.00"  
1) 28" x 34" - Conseal CS-102 1.00"  
2) Hole - 58 x 42  
1) Hole - 6

- 0 lb  
4406 lb  
12276 lb  
250 lb  
0 lb  
0 lb  
0 lb  
0 lb  
-----  
16932 lb
- Structure Notes:  
1. PER TDOT D-CB-12RB / ASTM C478 SPEC'S.  
2. CONCRETE = 4,000 PSI AT 28 DAYS.  
3. JBS 3123 MOD SINGLE SET BY ICAST  
4. REINFORCING PER ASTM A615 (GRADE 60).  
\*\* PER TDOT STD DRAWING D-CB-12RB \*\*  
- TOP SLAB - DBL MAT #5 BARS.  
- RISER (As .18)  
- FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

Structure Total:

#### NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: PER TDOT DRAWING D-CB-12RA OR D-RL-1 FOR WWM OPTION.



Coating (Int):  
Coating (Ext):

Seam Up: Flat  
Seam Dn: Flat

Wall Thickness: 7"

Height (Ext): 10"

Weight (Net): 4406 lb  
Volume (Net): 1.12cu.yd



Job Name: 26-1038 - Perryville & Junction City WW Improvements  
Job Location: Danville, KY  
Contractor: Connhurst, LLC

Plant: 100

5/6/2026 4:07:11 PM

Tech: Jared - A

PC: E. Bradley



## Structure ID: 61038 (4)

**P5 MH096LD17S**

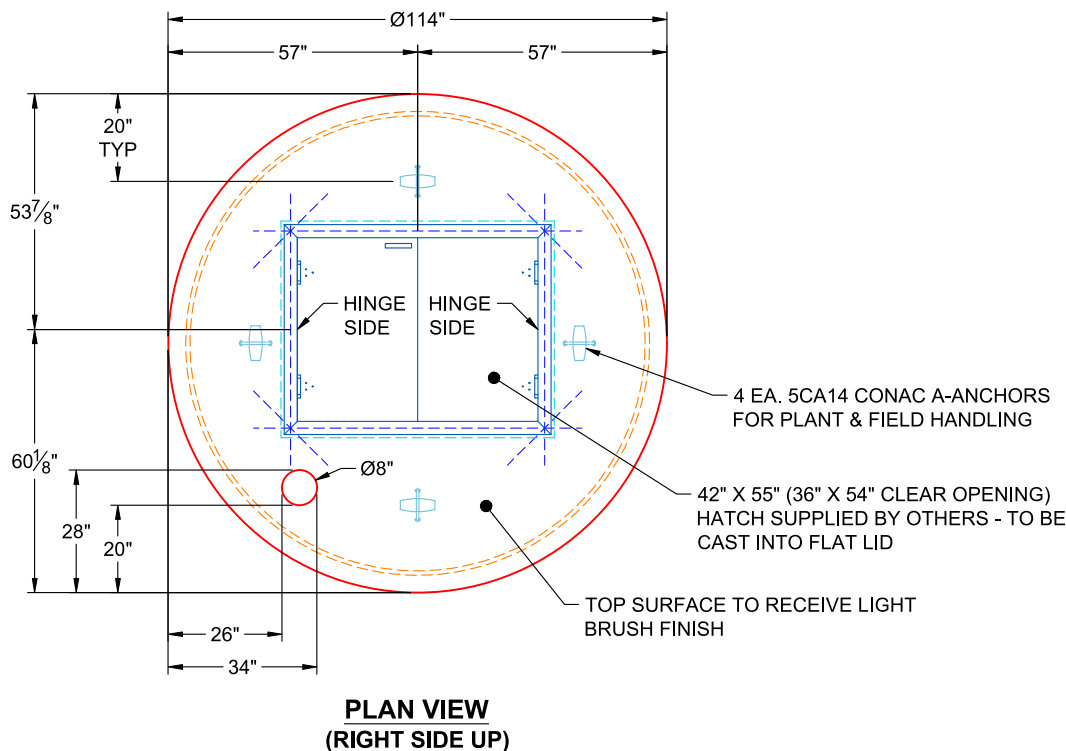
**MH FLAT TOP w/42"x55" Hatch F/G**

- P6) 42" x 55" - HATCH (CAST FLUSH) - 3"  
P5) 96" - MH FLAT TOP w/42"x55" Hatch F/G - 17"  
P4) 96" - MH RISER Custom Ht T/G - 67"  
P3) 96" - MH RISER T/G - 72"  
P2) 96" - MH RISER T/G - 54"  
P1) 96" - MH SEPARATE BASE-T EXT. 14" (142" OD) T/n - 12"  
1) This Structure Includes a Cast-in Item - 42" x 55" Hatch (Supplied by Others)  
4) JOINT WRAP - 12" WD x 096" MAC WRAP  
4) 96" - Conseal CS-231 1.00" (Double)  
3) PSX - 8QRS-S NYLO  
1) PSX - 12-08 NYLO

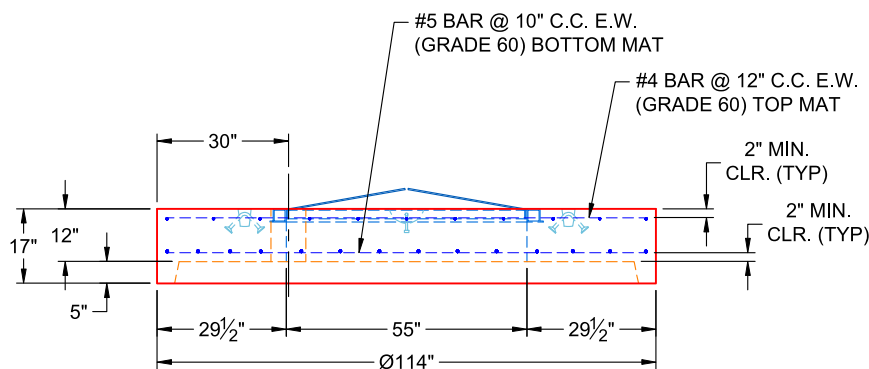
|                  |          |
|------------------|----------|
|                  | 0 lb     |
|                  | 8820 lb  |
|                  | 16574 lb |
|                  | 17851 lb |
|                  | 13452 lb |
|                  | 19580 lb |
|                  | 0 lb     |
|                  | 0 lb     |
|                  | 0 lb     |
|                  | 20 lb    |
|                  | 8 lb     |
| Structure Total: | 76305 lb |

### Structure Notes:

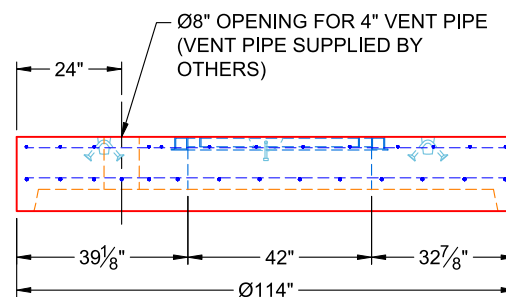
- PER ASTM C-478 SPECIFICATIONS
- CONCRETE: 4,500 PSI AT 28 DAYS
- REINFORCEMENT - 2" MIN. REBAR CLEARANCE (TYP):
  - TOP MAT: #4 BAR @ 12" C.C. E.W. (GRADE 60)
  - BOTTOM MAT: #5 BAR @ 10" C.C. E.W. (GRADE 60)
- 42" X 55" (36" X 54" CLEAR OPENING) HATCH SUPPLIED BY OTHERS - TO BE CAST INTO FLAT LID
- 4" VENT PIPE SUPPLIED BY OTHERS
- LIFTERS: 4 EA. 5CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED AS SHOWN
- TOP SURFACE TO RECEIVE LIGHT BRUSH FINISH



**PLAN VIEW  
(RIGHT SIDE UP)**



**FRONT VIEW  
(RIGHT SIDE UP)**



**SIDE VIEW  
(RIGHT SIDE UP)**

Coating (Int):  
Coating (Ext):

Seam Up: Flat  
Seam Dn: Groove

Wall Thickness: 9"

Height (Ext): 17"

Weight (Net): 8820 lb  
Volume (Net): 2.25cu.yd

**Job Number:**

26-1038

**Job Name:**

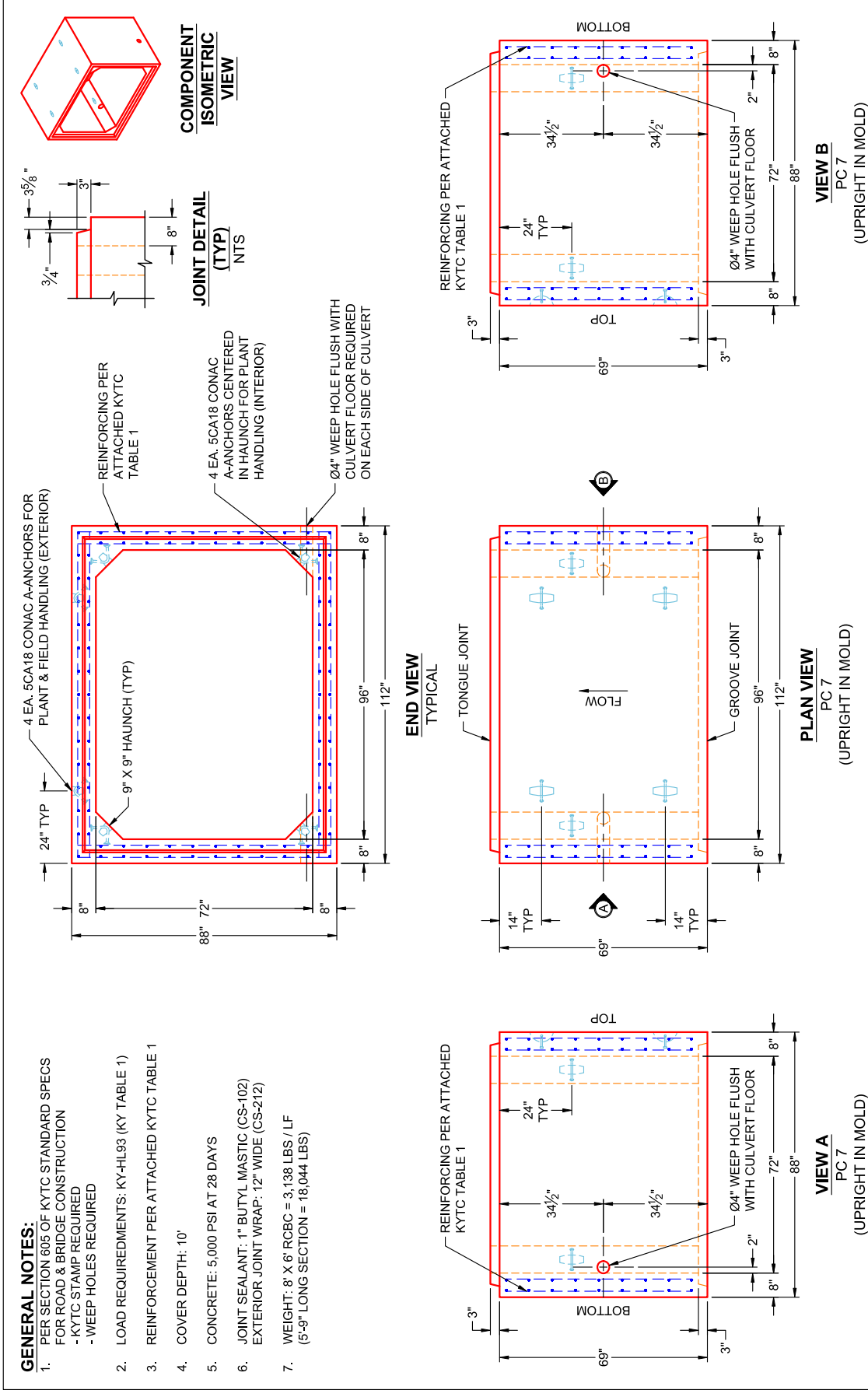
Perryville & Junction City WW  
Improvements

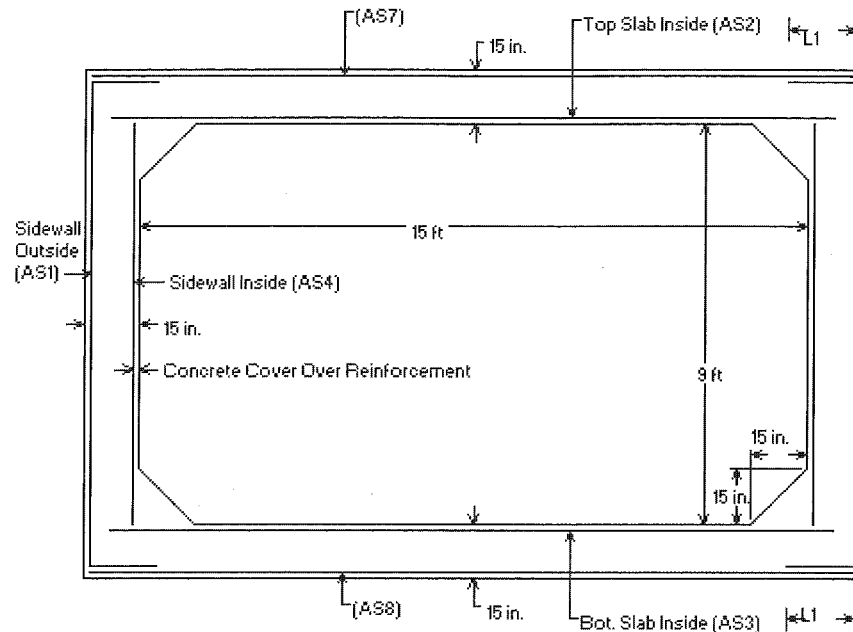
**Structure:**

61038 (4)

**Note:**

42" x 55" (36" x 54" Clear Opening)  
Hatch Supplied By Others To Be Cast  
Into Flat Lid





- \* <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   |
|------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| 8x6x8                  | 0<2 | 0.267 | 0.536 | 0.382 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 |
|                        | 2<3 | 0.266 | 0.458 | 0.382 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 |
|                        | 3-5 | 0.237 | 0.392 | 0.359 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 10  | 0.244 | 0.365 | 0.38  | 0.192 | 0.192 | 0.192 |       |       |
|                        | 15  | 0.321 | 0.489 | 0.505 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 20  | 0.408 | 0.627 | 0.644 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 25  | 0.502 | 0.774 | 0.791 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 30  | 0.602 | 0.928 | 0.946 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 35  | 0.708 | 1.089 | 1.108 | 0.192 | 0.192 | 0.192 |       |       |

| Design Earth Cover, ft |     | As1   | As2   | As3   | As4   | As7   | As8   | As5   | As6   |
|------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| 8x7x8                  | 0<2 | 0.245 | 0.557 | 0.403 | 0.192 | 0.192 | 0.192 | 0.197 | 0.192 |
|                        | 2<3 | 0.243 | 0.479 | 0.403 | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 |
|                        | 3-5 | 0.215 | 0.409 | 0.378 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 10  | 0.225 | 0.378 | 0.396 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 15  | 0.295 | 0.507 | 0.526 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 20  | 0.374 | 0.651 | 0.671 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 25  | 0.459 | 0.804 | 0.825 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 30  | 0.549 | 0.965 | 0.987 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 35  | 0.644 | 1.134 | 1.157 | 0.192 | 0.192 | 0.192 |       |       |

| Design Earth Cover, ft |     | As1   | As2   | As3   | As4   | As7   | As8   | As5   | As6   |
|------------------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| 8x8x8                  | 0<2 | 0.226 | 0.575 | 0.42  | 0.192 | 0.192 | 0.192 | 0.203 | 0.192 |
|                        | 2<3 | 0.224 | 0.494 | 0.42  | 0.192 | 0.192 | 0.192 | 0.192 | 0.192 |
|                        | 3-5 | 0.201 | 0.423 | 0.393 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 10  | 0.211 | 0.386 | 0.407 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 15  | 0.276 | 0.518 | 0.54  | 0.192 | 0.192 | 0.192 |       |       |
|                        | 20  | 0.349 | 0.665 | 0.688 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 25  | 0.427 | 0.822 | 0.846 | 0.192 | 0.192 | 0.192 |       |       |
|                        | 30  | 0.51  | 0.988 | 1.013 | 0.192 | 0.192 | 0.192 |       |       |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |               |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|---------------|---------------|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------------|---------------|---------------|---------------|------------------------|---------------|---------------|---------------|-----------------------|---|-----|-----------------------|---|-----|--------------------------|---|-----|-----------------------|---|-----|----------------------|---|-----|-------------------------|---|-----|----------------------|---|-----|-----------------------------------|-------|-----|--------------------------|------|-----|----------------------|-----|-----|------------------------------------------------|-------|-----|----------------------------|-----|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <h2 style="margin: 0;">Default Parameters</h2>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |               |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| <p> <input type="radio"/> SI Unit File            <input checked="" type="radio"/> Customary US Unit File       </p> <p>         Data Directory: <span style="border: 1px solid black; padding: 2px;">C:\Program Files\Autodesk\AutoCAD 2004\Sample\Documents</span> </p> <p>         Section Length: <span style="border: 1px solid black; padding: 2px;">10</span> ft       </p> <p> <b>Box Geometry</b> </p> <table style="width: 100%;"> <tr> <td>Top Slab Thickness</td> <td>{Span/12} + 1</td> <td>{Span/12} + 0</td> <td>{Span/12} + 0</td> </tr> <tr> <td>Bottom Slab Thickness</td> <td>{Span/12} + 1</td> <td>{Span/12} + 0</td> <td>{Span/12} + 0</td> </tr> <tr> <td>Sidewall Thickness</td> <td>{Span/12} + 1</td> <td>{Span/12} + 0</td> <td>{Span/12} + 0</td> </tr> <tr> <td>Horizontal Haunch Length</td> <td>{Span/12} + 1</td> <td>{Span/12} + 0</td> <td>{Span/12} + 0</td> </tr> <tr> <td>Vertical Haunch Length</td> <td>{Span/12} + 1</td> <td>{Span/12} + 0</td> <td>{Span/12} + 0</td> </tr> </table> <p> <b>Linear Concrete Covers</b> </p> <table style="width: 100%;"> <tr> <td>Top Slab Outside Face</td> <td>2</td> <td>in.</td> </tr> <tr> <td>Top Slab Outside Face</td> <td>1</td> <td>in.</td> </tr> <tr> <td>Bottom Slab Outside Face</td> <td>1</td> <td>in.</td> </tr> <tr> <td>Sidewall Outside Face</td> <td>1</td> <td>in.</td> </tr> <tr> <td>Top Slab Inside Face</td> <td>1</td> <td>in.</td> </tr> <tr> <td>Bottom Slab Inside Face</td> <td>1</td> <td>in.</td> </tr> <tr> <td>Sidewall Inside Face</td> <td>1</td> <td>in.</td> </tr> </table> <p> <b>Material Properties</b> </p> <table style="width: 100%;"> <tr> <td>Main Reinforcement Yield Strength</td> <td>65000</td> <td>psi</td> </tr> <tr> <td>Design Concrete Strength</td> <td>5000</td> <td>psi</td> </tr> <tr> <td>Concrete Unit Weight</td> <td>150</td> <td>pct</td> </tr> <tr> <td>Stirrup Reinforcement Developable Yield Stress</td> <td>60000</td> <td>psi</td> </tr> <tr> <td>Total Service Stress Limit</td> <td>100</td> <td>%</td> </tr> </table> | Top Slab Thickness | {Span/12} + 1 | {Span/12} + 0 | {Span/12} + 0 | Bottom Slab Thickness | {Span/12} + 1 | {Span/12} + 0 | {Span/12} + 0 | Sidewall Thickness | {Span/12} + 1 | {Span/12} + 0 | {Span/12} + 0 | Horizontal Haunch Length | {Span/12} + 1 | {Span/12} + 0 | {Span/12} + 0 | Vertical Haunch Length | {Span/12} + 1 | {Span/12} + 0 | {Span/12} + 0 | Top Slab Outside Face | 2 | in. | Top Slab Outside Face | 1 | in. | Bottom Slab Outside Face | 1 | in. | Sidewall Outside Face | 1 | in. | Top Slab Inside Face | 1 | in. | Bottom Slab Inside Face | 1 | in. | Sidewall Inside Face | 1 | in. | Main Reinforcement Yield Strength | 65000 | psi | Design Concrete Strength | 5000 | psi | Concrete Unit Weight | 150 | pct | Stirrup Reinforcement Developable Yield Stress | 60000 | psi | Total Service Stress Limit | 100 | % | <p>         Minimum Depth of Fill &lt; 2 ft<br/>         Minimum Depth of Fill &gt;= 2 ft       </p> <p>         Reinforcement Type: <span style="border: 1px solid black; padding: 2px;">Welded Wire</span> </p> <p>         Restore Default Settings       </p> <p> <a href="#">Next Page &gt;&gt;</a>    <a href="#">Return to Main Menu</a> </p> |
| Top Slab Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | {Span/12} + 1      | {Span/12} + 0 | {Span/12} + 0 |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Bottom Slab Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | {Span/12} + 1      | {Span/12} + 0 | {Span/12} + 0 |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Sidewall Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | {Span/12} + 1      | {Span/12} + 0 | {Span/12} + 0 |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Horizontal Haunch Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | {Span/12} + 1      | {Span/12} + 0 | {Span/12} + 0 |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Vertical Haunch Length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | {Span/12} + 1      | {Span/12} + 0 | {Span/12} + 0 |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Top Slab Outside Face                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2                  | in.           |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Top Slab Outside Face                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1                  | in.           |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Bottom Slab Outside Face                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                  | in.           |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Sidewall Outside Face                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1                  | in.           |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Top Slab Inside Face                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                  | in.           |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Bottom Slab Inside Face                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                  | in.           |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Sidewall Inside Face                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                  | in.           |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Main Reinforcement Yield Strength                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 65000              | psi           |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Design Concrete Strength                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5000               | psi           |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Concrete Unit Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 150                | pct           |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Stirrup Reinforcement Developable Yield Stress                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 60000              | psi           |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |
| Total Service Stress Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 100                | %             |               |               |                       |               |               |               |                    |               |               |               |                          |               |               |               |                        |               |               |               |                       |   |     |                       |   |     |                          |   |     |                       |   |     |                      |   |     |                         |   |     |                      |   |     |                                   |       |     |                          |      |     |                      |     |     |                                                |       |     |                            |     |   |                                                                                                                                                                                                                                                                                                                                                      |

[illegible]

Buyer - Detail (page 2) - Interstate/ Tandem Truck

# Live Load Data

Live Load Type (Max 2)

☒ H5 Series  
☒ Interstate/Tandem  
☐ Cooper Series  
☐ CHBDC Truck  
☐ Tandem/Tandem  
☐ Other  
☐ None

Magnitude (M)

|     |      |
|-----|------|
| 75  | tons |
| 25  | kips |
| 80  | kips |
| 140 | kips |
| 140 | kips |
| 15  | kips |

Direction of Traffic

Parallel

To Span

Impact Factor Options

Design Code

Impact Factor (User Def) 1

Lane Load

0 lb/ft

Live Load Distribution

Factor (LLDF)

Design Code

1.15

Fluid Loads

Depth of Fluid

Fluid Unit Weight

1

52.5 pcf

Surcharge Loads

Uniform Vertical

Lateral - Top of Culvert (LLTC)

Lateral - Bottom of Culvert (LLBC)

lb/ft

lb/ft

lb/ft

0

90

90

?

Users Specified (Not by Code)

Length

10

in.

Footprint

☒ By Code

☒ By Code

☒ By Code

☒ By Code

☒ By Code

☒ By Code

☒ By Code

Width

20

in.

20

in.

0

in.

24

in.

20

in.

20

in.

Interstate/Tandem Truck

Wheel Layout

14 ft.

A=4 ft. Load

<<Previous Page

NextPage>>

Return to Main Menu

Job Name: 23-2309 - Richland Estates Subdivision

Job Location: Portland, TN

Contractor: Core & Main LP (BG)

Plant: 100

6/30/2026 8:54:33 AM

Tech: J. Horsley

PC: T. Lewis



Structure ID: 03 ST-OCS DTN POND2

P2 BX3636-08R24

BOX RISER 8inW

P3) 36" x 36" - CASTING HEIGHT - 3"

P2) 36" x 36" - BOX RISER 8inW - 24"

P1) 36" x 36" - BOX BASE 8inW, 8inF - 54"

2) 36" x 36" - Conseal CS-102 1.00"

2) Hole - 30

1) Hole - 20

1) Hole - 6

0 lb

2836 lb

6929 lb

0 lb

0 lb

0 lb

0 lb

-----

Structure Total: 9764 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.

2. CONCRETE = 4,500 PSI AT 28 DAYS.

3. NO INVERT CHANNEL.

4. CASTING BY OTHERS (LFG-48 TRASH RACK).

.

REINFORCING PER ASTM A615 (GRADE 60).

- WALLS = #4 BARS AT 12" C.C.E.W.

- FLOOR = #4 BARS AT 12" C.C.E.W.

Rim: 804.25'

Rim to Invert: 6.75'

Slack: 0"

Sump: 0"

Step Position:

| Position | Elev | Angle | Ext. (cw) | Pipe | Pipe OD | Connector | Hole | Horz Size | Up ( _ ) | Offset |
|----------|------|-------|-----------|------|---------|-----------|------|-----------|----------|--------|
| Invert 1 |      |       |           |      |         |           |      |           |          |        |
| Invert 2 |      |       |           |      |         |           |      |           |          |        |
| Invert 3 |      |       |           |      |         |           |      |           |          |        |
| Invert 4 |      |       |           |      |         |           |      |           |          |        |
| Invert 5 |      |       |           |      |         |           |      |           |          |        |
| Invert 6 |      |       |           |      |         |           |      |           |          |        |
| Invert 7 |      |       |           |      |         |           |      |           |          |        |
| Invert 8 |      |       |           |      |         |           |      |           |          |        |

RIGHT-SIDE UP VIEW (int. dimensions)

(P3)

(P2) <<

(P1)

36"

36"

+ 0°

INSIDE WALL DIMENSIONS

Front

Right (36")

Back (36")

Left

(P2)

24"

Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: Groove

Wall Thickness: 8"

Floor Height: 0"

Height (Int): 24"

Height (Ext): 24"

Weight (Net): 2836 lb

Volume (Net): 0.72cu.yd

|                                                                                                                                                                                                                |         |       |                            |            |                                    |                                                                                                 |                                  |                                                                                                                                                                                                                                                                                                  |        |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|----------------------------|------------|------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| Job Name: 23-2309 - Richland Estates Subdivision<br>Job Location: Portland, TN<br>Contractor: Core & Main LP (BG)                                                                                              |         |       |                            |            | Plant: 100<br>6/30/2026 8:52:05 AM |                                                                                                 | Tech: J. Horsley<br>PC: T. Lewis |                                                                                                                                                                                                                                                                                                  |        |        |
| <b>Structure ID: 03 ST-OCS DTN POND2</b>                                                                                                                                                                       |         |       |                            |            |                                    |                                                                                                 |                                  |                                                                                                                                                                                                                                                                                                  |        |        |
| <b>P1 BX3636-08BA54</b>                                                                                                                                                                                        |         |       | <b>BOX BASE 8inW, 8inF</b> |            |                                    |                                                                                                 |                                  |                                                                                                                                                                                                                                                                                                  |        |        |
| P3) 36" x 36" - CASTING HEIGHT - 3"<br>P2) 36" x 36" - BOX RISER 8inW - 24"<br>P1) 36" x 36" - BOX BASE 8inW, 8inF - 54"<br>2) 36" x 36" - Conseal CS-102 1.00"<br>2) Hole - 30<br>1) Hole - 20<br>1) Hole - 6 |         |       |                            |            |                                    | 0 lb<br>2836 lb<br>6929 lb<br>0 lb<br>0 lb<br>0 lb<br>0 lb<br>-----<br>Structure Total: 9764 lb |                                  | <b>Structure Notes:</b><br>1. PER ASTM C913 SPECIFICATIONS.<br>2. CONCRETE = 4,500 PSI AT 28 DAYS.<br>3. NO INVERT CHANNEL.<br>4. CASTING BY OTHERS (LFG-48 TRASH RACK).<br>.<br>REINFORCING PER ASTM A615 (GRADE 60).<br>- WALLS = #4 BARS AT 12" C.C.E.W.<br>- FLOOR = #4 BARS AT 12" C.C.E.W. |        |        |
| Rim: 804.25'      Rim to Invert: 6.75'      Slack: 0"      Sump: 0"      Step Position:                                                                                                                        |         |       |                            |            |                                    |                                                                                                 |                                  |                                                                                                                                                                                                                                                                                                  |        |        |
| Position                                                                                                                                                                                                       | Elev    | Angle | Ext. (cw)                  | Pipe       | Pipe OD                            | Connector                                                                                       | Hole                             | Horz Size                                                                                                                                                                                                                                                                                        | Up ( ) | Offset |
| Invert 1                                                                                                                                                                                                       | 797.5'  | 0°    | 26"                        | 24" HDPE   | 27.8"                              | Hole 30                                                                                         | 30"                              | 30"                                                                                                                                                                                                                                                                                              | -1.9"  | 0"     |
| Invert 2                                                                                                                                                                                                       | 797.5'  | 135°  | 32.201"                    | 15" HDPE   | 17.6"                              | Hole 20                                                                                         | 20"                              | 28.284"                                                                                                                                                                                                                                                                                          | -1.3"  | -14"   |
| Invert 3                                                                                                                                                                                                       | 797.5'  | 270°  | 26"                        | 24" HDPE   | 27.8"                              | Hole 30                                                                                         | 30"                              | 30"                                                                                                                                                                                                                                                                                              | -1.9"  | 0"     |
| Invert 4                                                                                                                                                                                                       | 799.25' | 180°  | 26"                        | 6" Orifice | 6"                                 | Hole 6                                                                                          | 6"                               | 6"                                                                                                                                                                                                                                                                                               | 21"    | 0"     |
| Invert 5                                                                                                                                                                                                       |         |       |                            |            |                                    |                                                                                                 |                                  |                                                                                                                                                                                                                                                                                                  |        |        |
| Invert 6                                                                                                                                                                                                       |         |       |                            |            |                                    |                                                                                                 |                                  |                                                                                                                                                                                                                                                                                                  |        |        |
| Invert 7                                                                                                                                                                                                       |         |       |                            |            |                                    |                                                                                                 |                                  |                                                                                                                                                                                                                                                                                                  |        |        |
| Invert 8                                                                                                                                                                                                       |         |       |                            |            |                                    |                                                                                                 |                                  |                                                                                                                                                                                                                                                                                                  |        |        |

**RIGHT-SIDE UP VIEW (int. dimensions)**

**UPSIDE-DOWN VIEW (int. dimensions)**

**INSIDE WALL DIMENSIONS**

|                                  |                                 |                                        |                                        |                                                  |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Tongue<br>Seam Dn: n/a | Wall Thickness: 8"<br>Floor Height: 8" | Height (Int): 54"<br>Height (Ext): 62" | Weight (Net): 6929 lb<br>Volume (Net): 1.77cu.yd |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|



Job Name: 26-2424 Fifth Third Mt. Juliet Central  
Job Location: Mount Juliet, TN 37122  
Contractor: Hayes Pipe Supply

Plant: 100  
6/30/2026 11:38:16 AM

Tech: Jared - A  
PC: Erica Bradley



Structure ID: ST-7 ST-CI

P1 BX28280606VH

BOX BASE 6inW, 6inF, Variable Ht

P2) 28" x 28" - CASTING HEIGHT - 6"  
P1) 28" x 28" - BOX BASE 6inW, 6inF, Variable Ht - 45"  
1) 28" x 28" - Conseal CS-102 1.00"  
1) Hole - 20

Structure Total: 3663 lb

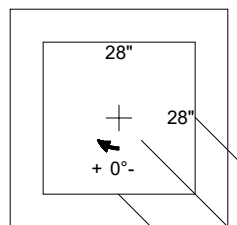
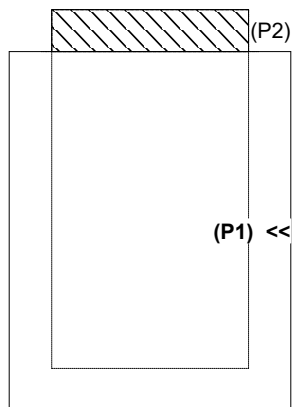
Structure Notes: .  
1. JBS-3101 F/G/H PROVIDED BY OTHERS  
2. PER ASTM C913 SPECIFICATIONS.  
3. CONCRETE = 4,000 PSI AT 28 DAYS.  
4. NO INVERT CHANNEL.  
5. REINFORCING PER ASTM A615 (GRADE 60).  
- WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 539.7' Rim to Invert: 4.2' Slack: 0.7" Sump: 1.3" Step Position: 0°

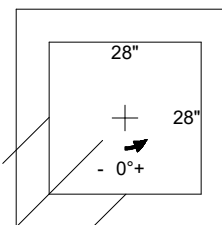
| Position | Elev   | Angle | Ext. (cw) | Pipe     | Pipe OD | Connector | Hole | Horz Size        | Up ( ) | Offset |
|----------|--------|-------|-----------|----------|---------|-----------|------|------------------|--------|--------|
| Invert 1 | 535.5' | 315°  | 0"        | 15" HDPE | 17.6"   | Hole 20   | 20"  | 14.142", 14.142" | 0"     | 0"     |
| Invert 2 |        |       |           |          |         |           |      |                  |        |        |
| Invert 3 |        |       |           |          |         |           |      |                  |        |        |
| Invert 4 |        |       |           |          |         |           |      |                  |        |        |
| Invert 5 |        |       |           |          |         |           |      |                  |        |        |
| Invert 6 |        |       |           |          |         |           |      |                  |        |        |
| Invert 7 |        |       |           |          |         |           |      |                  |        |        |
| Invert 8 |        |       |           |          |         |           |      |                  |        |        |

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



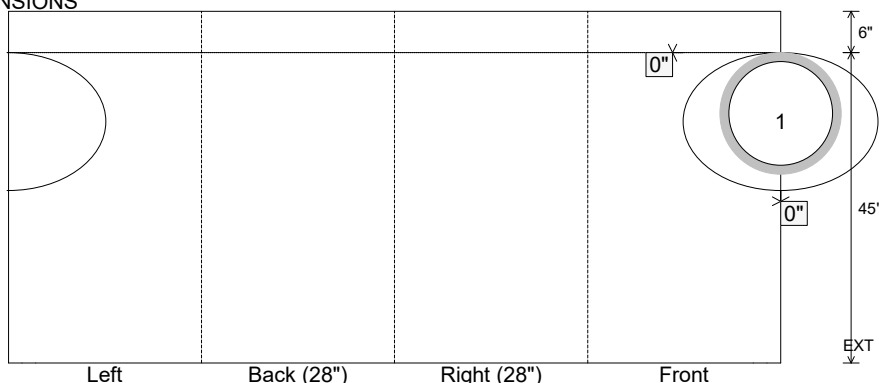
Invert: 1  
Degree: 315°  
Horz: 0°  
Hole: 20°  
Up( ): 0°



Invert: 1  
Degree: 315°  
Horz: 0°  
Hole: 20°  
Up( ): 0°

INSIDE WALL DIMENSIONS

(P1)



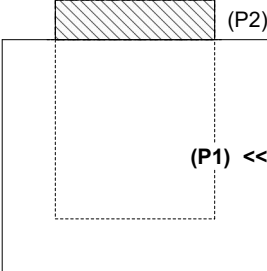
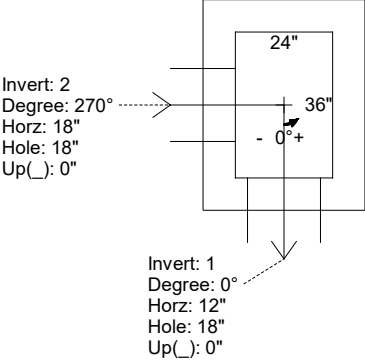
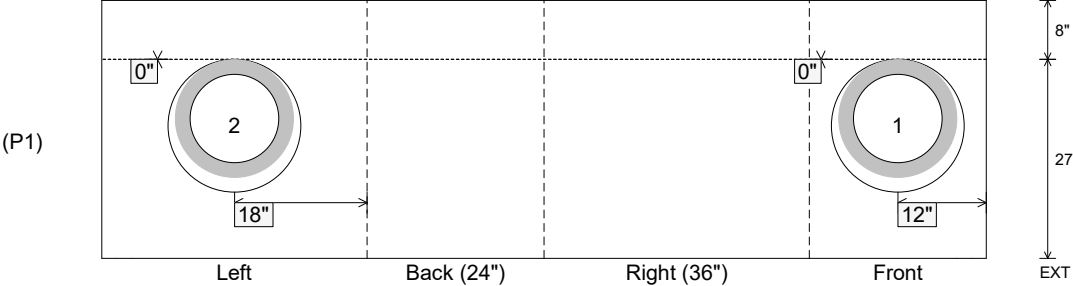
Coating (Int):  
Coating (Ext):

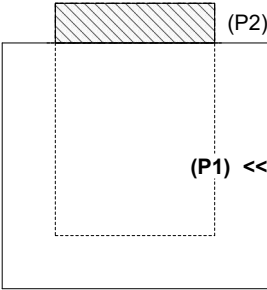
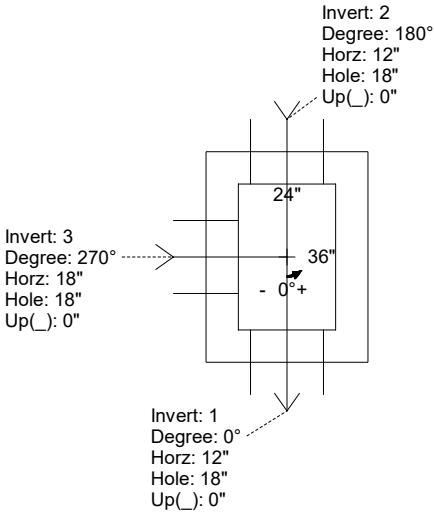
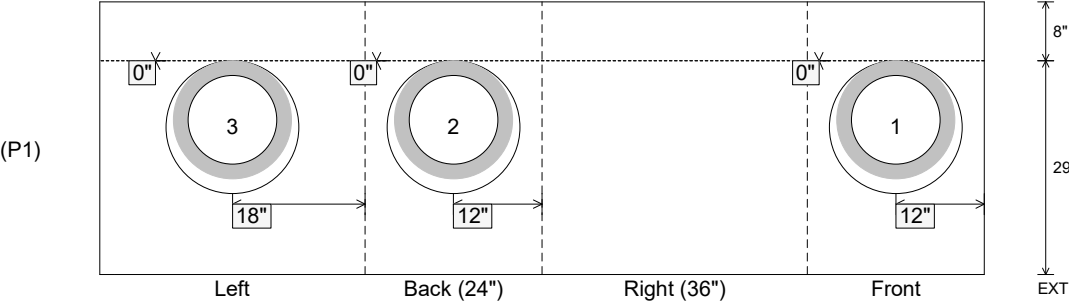
Seam Up: Flat  
Seam Dn: n/a

Wall Thickness: 6"  
Floor Height: 6"

Height (Int): 45"  
Height (Ext): 51"

Weight (Net): 3663 lb  
Volume (Net): 0.94cu.yd

|                                                                                                                                                                                                                                                                                                 |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------|-------------------------------|----------------|------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 26-2104 - Jeffersonville High School Parking Lot<br>Job Location: Jeffersonville, IN<br>Contractor: Mac Construction & Excavating, Inc.                                                                                                                                               |         |                                      |                               |                | Plant: 100<br>6/27/2026 7:12:41 PM                                           |           | Tech: Jared - A<br>PC: T. Lewis                                                                                                                                                                                                                                                 |           |  |        |  |
| Structure ID: 18 ST-CI                                                                                                                                                                                                                                                                          |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| P1 BX2436-08BVF                                                                                                                                                                                                                                                                                 |         | BOX BASE 8inW, 8inF, Variable Ht F/n |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| P2) 24" x 36" - CASTING HEIGHT - 6"<br>P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 27"<br>1) 24" x 36" - Conseal CS-102 1.00"<br>2) Hole - 18                                                                                                                                        |         |                                      |                               |                | 0 lb<br>3810 lb<br>0 lb<br>0 lb<br>-----<br>0 lb<br>Structure Total: 3810 lb |           | <u>Structure Notes:</u><br>1. PER ASTM C-913 SPECIFICATIONS<br>2. CONCRETE: 4,000 PSI AT 28 DAYS<br>3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)<br>4. STORM INVERT BY OTHERS<br>5. HOE 525 FRAME, GRATE, & CURB HOOD SUPPLIED BY OTHERS |           |                                                                                    |        |  |
| Rim: 482.41' Rim to Invert: 2.7' Slack: 1.4" Sump: 2" Step Position:                                                                                                                                                                                                                            |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                                        | Elev    | Angle                                | Ext. (cw)                     | Pipe           | Pipe OD                                                                      | Connector | Hole                                                                                                                                                                                                                                                                            | Horz Size | Up ( )                                                                             | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                                        | 479.71' | 0°                                   | 20"                           | 12" RCP B WALL | 16"                                                                          | Hole 18   | 18"                                                                                                                                                                                                                                                                             | 18"       | 0"                                                                                 | 0"     |  |
| Invert 2                                                                                                                                                                                                                                                                                        | 479.71' | 270°                                 | 26"                           | 12" RCP B WALL | 16"                                                                          | Hole 18   | 18"                                                                                                                                                                                                                                                                             | 18"       | 0"                                                                                 | 0"     |  |
| Invert 3                                                                                                                                                                                                                                                                                        |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 4                                                                                                                                                                                                                                                                                        |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                                        |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                                        |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                                        |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                                        |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| <div>RIGHT-SIDE UP VIEW (int. dimensions)</div> <div>UPSIDE-DOWN VIEW (int. dimenions)</div> <div>INSIDE WALL DIMENSIONS</div>                                                                                                                                                                  |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| <div></div> <div></div> <div></div> |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Coating (Int):<br>Coating (Ext):                                                                                                                                                                                                                                                                |         |                                      | Seam Up: Flat<br>Seam Dn: n/a |                | Wall Thickness: 8"<br>Floor Height: 8"                                       |           | Height (Int): 27"<br>Height (Ext): 35"                                                                                                                                                                                                                                          |           | Weight (Net): 3810 lb<br>Volume (Net): 0.97cu.yd                                   |        |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------|-------------------------------|----------------|------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 26-2104 - Jeffersonville High School Parking Lot<br>Job Location: Jeffersonville, IN<br>Contractor: Mac Construction & Excavating, Inc.                                                                                                                                                                                                                                                                                                                      |         |                                      |                               |                | Plant: 100<br>6/27/2026 7:12:41 PM                                           |           | Tech: Jared - A<br>PC: T. Lewis                                                                                                                                                                                                                                                 |           |  |        |  |
| Structure ID: 16 ST-CI                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| P1 BX2436-08BVF                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         | BOX BASE 8inW, 8inF, Variable Ht F/n |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| P2) 24" x 36" - CASTING HEIGHT - 6"<br>P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 29"<br>1) 24" x 36" - Conseal CS-102 1.00"<br>3) Hole - 18                                                                                                                                                                                                                                                                                                               |         |                                      |                               |                | 0 lb<br>3843 lb<br>0 lb<br>0 lb<br>-----<br>0 lb<br>Structure Total: 3843 lb |           | <u>Structure Notes:</u><br>1. PER ASTM C-913 SPECIFICATIONS<br>2. CONCRETE: 4,000 PSI AT 28 DAYS<br>3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)<br>4. STORM INVERT BY OTHERS<br>5. HOE 525 FRAME, GRATE, & CURB HOOD SUPPLIED BY OTHERS |           |                                                                                    |        |  |
| Rim: 482.39' Rim to Invert: 2.9' Slack: 1.8" Sump: 2" Step Position:                                                                                                                                                                                                                                                                                                                                                                                                   |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Elev    | Angle                                | Ext. (cw)                     | Pipe           | Pipe OD                                                                      | Connector | Hole                                                                                                                                                                                                                                                                            | Horz Size | Up ( )                                                                             | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 479.49' | 0°                                   | 20"                           | 12" RCP B WALL | 16"                                                                          | Hole 18   | 18"                                                                                                                                                                                                                                                                             | 18"       | 0"                                                                                 | 0"     |  |
| Invert 2                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 479.49' | 180°                                 | 20"                           | 12" RCP B WALL | 16"                                                                          | Hole 18   | 18"                                                                                                                                                                                                                                                                             | 18"       | 0"                                                                                 | 0"     |  |
| Invert 3                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 479.49' | 270°                                 | 26"                           | 12" RCP B WALL | 16"                                                                          | Hole 18   | 18"                                                                                                                                                                                                                                                                             | 18"       | 0"                                                                                 | 0"     |  |
| Invert 4                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| <div><div><div>RIGHT-SIDE UP VIEW (int. dimensions)</div><div></div></div><div><div>UPSIDE-DOWN VIEW (int. dimensions)</div><div></div></div><div><div>INSIDE WALL DIMENSIONS</div><div></div></div></div> |         |                                      |                               |                |                                                                              |           |                                                                                                                                                                                                                                                                                 |           |                                                                                    |        |  |
| Coating (Int):<br>Coating (Ext):                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                      | Seam Up: Flat<br>Seam Dn: n/a |                | Wall Thickness: 8"<br>Floor Height: 8"                                       |           | Height (Int): 29"<br>Height (Ext): 37"                                                                                                                                                                                                                                          |           | Weight (Net): 3843 lb<br>Volume (Net): 0.98cu.yd                                   |        |  |

Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315)

Job Location: Indiana, KY

Contractor: Louisville Paving and Construction

Plant: 100

6/17/2026 5:41:13 PM

Tech: J. Horsley - A

PC: J. Jarvis



Structure ID: 47

P2 BX1818-06R12

BOX RISER 6inW F/G

P3) 18" x 18" - CASTING HEIGHT - 4"

P2) 18" x 18" - BOX RISER 6inW F/G - 12"

P1) 18" x 18" - BOX BASE 6inW, 6inF, Variable Ht T/n - 20"

2) 18" x 18" - Conseal CS-102 1.00"

1) Hole - 18

0 lb

580 lb

1324 lb

0 lb

0 lb

Structure Total: 1904 lb

Structure Notes:

1. PER MSD YARD DRAIN / ASTM C-913 SPECS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT: #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)

4. HOE 165-A FRAME & GRATE SUPPLIED BY OTHERS

Rim: 551.6' Rim to Invert: 3' Slack: 0" Sump: 0" Step Position:

| Position | Elev | Angle | Ext. (cw) | Pipe | Pipe OD | Connector | Hole | Horz Size | Up ( _ ) | Offset |
|----------|------|-------|-----------|------|---------|-----------|------|-----------|----------|--------|
| Invert 1 |      |       |           |      |         |           |      |           |          |        |
| Invert 2 |      |       |           |      |         |           |      |           |          |        |
| Invert 3 |      |       |           |      |         |           |      |           |          |        |
| Invert 4 |      |       |           |      |         |           |      |           |          |        |
| Invert 5 |      |       |           |      |         |           |      |           |          |        |
| Invert 6 |      |       |           |      |         |           |      |           |          |        |
| Invert 7 |      |       |           |      |         |           |      |           |          |        |
| Invert 8 |      |       |           |      |         |           |      |           |          |        |

(P3)

(P2) <<

(P1)

RIGHT-SIDE UP VIEW (int. dimensions)

18"

18"

+ 0°-

INSIDE WALL DIMENSIONS

Front

Right (18")

Back (18")

Left

(P2)

12"

Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: Groove

Wall Thickness: 6"

Floor Height: 0"

Height (Int): 12"

Height (Ext): 12"

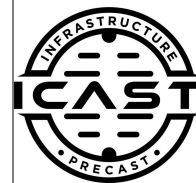
Weight (Net): 580 lb

Volume (Net): 0.15cu.yd

Job Name: 25-1684P12 KYTC Jefferson Co. Call 200 (251007)  
Job Location: I-264 Louisville, Ky.  
Contractor: Cleary Construction, Inc.

Plant: Beaver Dam, Ky.  
6/24/2026 1:33:12 PM

Tech: J. Coppage  
PC: T. Ryan



Structure ID: 119+10 LT CBIA INLET 16

P1 BX2436-08BA30

BOX BASE 8inW, 8inF

P3) 24" x 120" - CB INLET KY A 10' TOP LEFT - 10"  
P2) 24" x 120" - CB INLET KY A 10' BOTTOM LEFT - 18"  
P1) 24" x 36" - BOX BASE 8inW, 8inF - 30"  
1) 24" x 36" - Conseal CS-102 1.00"  
1) Hole - 22"

Structure Notes: .  
-KYTC STATE PROJECT 251007  
-REINFORCING: #5 BAR @ 12" C/C E.W. (TYP.)  
-CS-102 BUTYL REQUIRED (SUPPLIED BY ICAST).  
-KYTC CERTIFICATIONS REQUIRED.

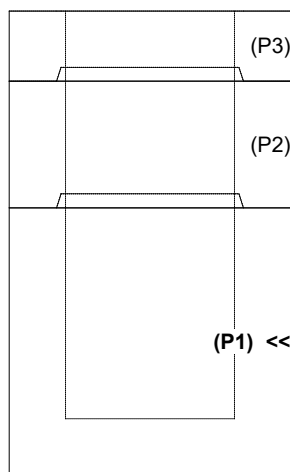
Structure Total: 12863 lb

Rim: 591.2' Rim to Invert: 5.18' Slack: 4.16" Sump: 0" Step Position:

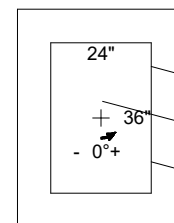
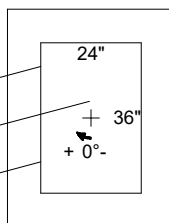
| Position | Elev    | Angle | Ext. (cw) | Pipe    | Pipe OD | Connector | Hole | Horz Size | Up ( _ ) | Offset |
|----------|---------|-------|-----------|---------|---------|-----------|------|-----------|----------|--------|
| Invert 1 | 586.02' | 75°   | 24.782"   | 18" CMP | 19"     | Hole 22   | 22"  | 22.776"   | -2"      | 4"     |
| Invert 2 |         |       |           |         |         |           |      |           |          |        |
| Invert 3 |         |       |           |         |         |           |      |           |          |        |
| Invert 4 |         |       |           |         |         |           |      |           |          |        |
| Invert 5 |         |       |           |         |         |           |      |           |          |        |
| Invert 6 |         |       |           |         |         |           |      |           |          |        |
| Invert 7 |         |       |           |         |         |           |      |           |          |        |
| Invert 8 |         |       |           |         |         |           |      |           |          |        |

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



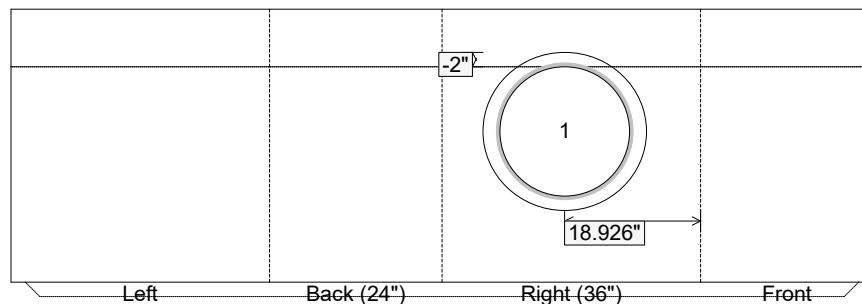
Invert: 1  
Degree: 75°  
Horz: 18.926"  
Hole: 22"  
Up( \_ ): -2"



Invert: 1  
Degree: 75°  
Horz: 18.926"  
Hole: 22"  
Up( \_ ): -2"

INSIDE WALL DIMENSIONS

(P1)



8"  
30"  
EXT

Coating (Int):  
Coating (Ext):

Seam Up: Tongue  
Seam Dn: n/a

Wall Thickness: 8"  
Floor Height: 8"

Height (Int): 30"  
Height (Ext): 38"

Weight (Net): 4193 lb  
Volume (Net): 1.07cu.yd

Job Name: 25-1684P12 KYTC Jefferson Co. Call 200 (251007)  
Job Location: I-264 Louisville, Ky.  
Contractor: Cleary Construction, Inc.

Plant: Beaver Dam, Ky.  
6/24/2026 1:33:06 PM

Tech: J. Coppage  
PC: T. Ryan



Structure ID: 2001+29 RT DBI 5A INLET 26

P1 BX3648-08BAVF

BOX BASE 8inW, 8inF, Variable Ht

P2) 36" x 48" - P.I.P. - BY OTHERS - 8"  
P1) 36" x 48" - BOX BASE 8inW, 8inF, Variable Ht - 40"  
1) 36" x 48" - SGL 1"x14.5' Butyl  
2) Hole - 22

Structure Total:

0 lb  
7016 lb  
0 lb  
0 lb  
-----  
7016 lb

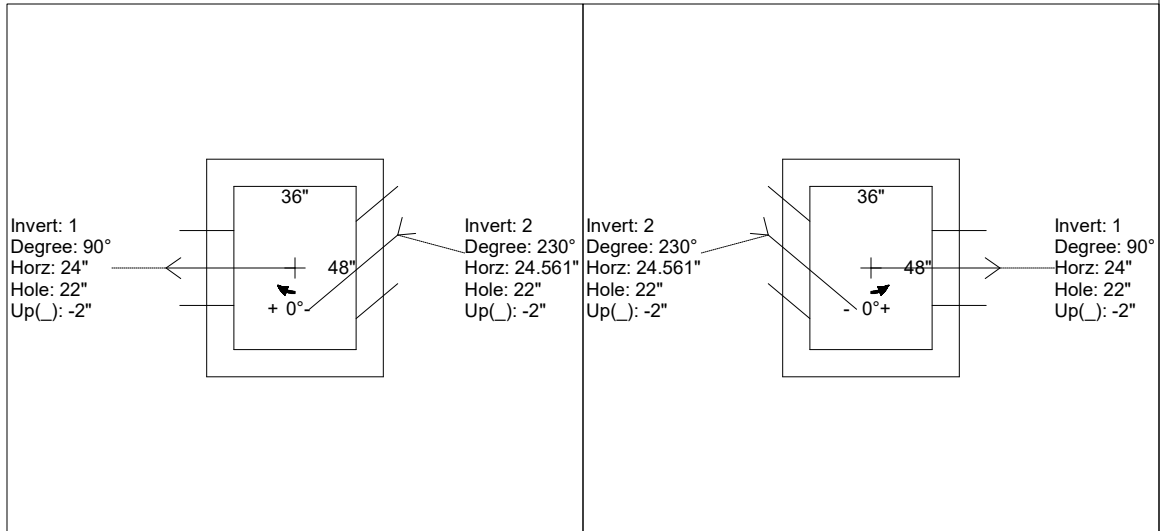
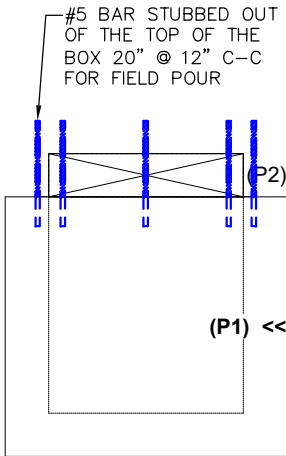
Structure Notes:  
-KYTC STATE PROJECT 251007  
-REINFORCING: #5 BAR @ 12" C/C E.W. (TYP.)  
-CASTING FRAMES & GRATES BY OTHERS.  
-CS-102 BUTYL REQUIRED (SUPPLIED BY ICAST).  
-KYTC CERTIFICATIONS REQUIRED.  
-#5 BAR EXTENDED OUT OF TOP OF BOX 20" AT 12" C/C.

Rim: 588' Rim to Invert: 4.32' Slack: 3.84' Sump: 0" Step Position:

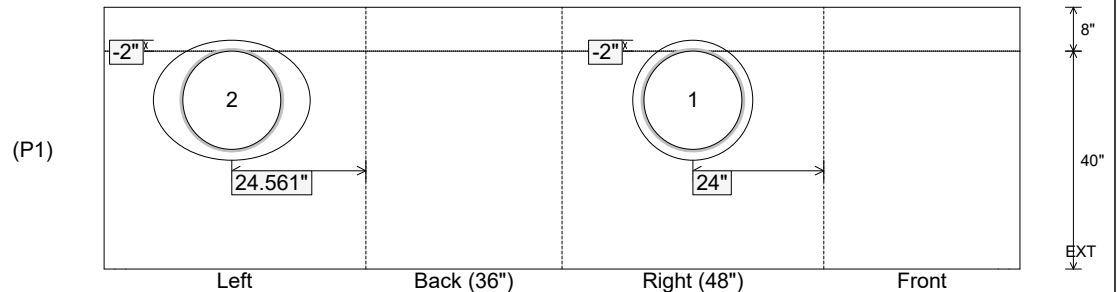
| Position | Elev    | Angle | Ext. (cw) | Pipe    | Pipe OD | Connector | Hole | Horz Size | Up ( ) | Offset |
|----------|---------|-------|-----------|---------|---------|-----------|------|-----------|--------|--------|
| Invert 1 | 583.68' | 90°   | 32"       | 18" CMP | 19"     | Hole 22   | 22"  | 22"       | -2"    | 0"     |
| Invert 2 | 583.68' | 230°  | 25.848"   | 18" CMP | 19"     | Hole 22   | 22"  | 28.719"   | -2"    | 12"    |
| Invert 3 |         |       |           |         |         |           |      |           |        |        |
| Invert 4 |         |       |           |         |         |           |      |           |        |        |
| Invert 5 |         |       |           |         |         |           |      |           |        |        |
| Invert 6 |         |       |           |         |         |           |      |           |        |        |
| Invert 7 |         |       |           |         |         |           |      |           |        |        |
| Invert 8 |         |       |           |         |         |           |      |           |        |        |

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
Coating (Ext):

Seam Up: Flat  
Seam Dn: n/a

Wall Thickness: 8"  
Floor Height: 8"

Height (Int): 40"  
Height (Ext): 48"

Weight (Net): 7016 lb  
Volume (Net): 1.79cu.yd

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320)

Job Location: Independence, KY

Contractor: Eaton Asphalt

Plant: 100

6/4/2026 4:53:03 PM

Tech: Jared - A

PC: J. Jarvis



Structure ID: 514

P1 BX2436-08BVF

BOX BASE 8inW, 8inF, Variable Ht T/n

P3) 24" x 120" - CB INLET KY A 10' TOP LEFT F/G - 10"

P2) 24" x 120" - CB INLET KY A 10' BOTTOM LEFT T/G - 18"

P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 33"

1) CASTING - HOE KY-206 F/C (KY TY1)

1) This Structure Includes a Cast-in Item - KY-206 Frame (Supplied by iCast)

1) 24" x 36" - Conseal CS-102 1.00"

1) Hole - 20

2) Hole - 8

3400 lb

5270 lb

4485 lb

206 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 13361 lb

Structure Notes:

\*\* KYTC STATE PROJECT \*\*

1. PER KYTC CBI TY A / ASTM C-913 SPECS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)

4. NO STORM INVERT

5. NO STEPS

6. KY-206 FRAME & COVER "STORM" SUPPLIED BY iCAST - FRAME TO BE CAST INTO TOP PHASE TOP FLANGE SIDE UP

Rim: 837.19'

Rim to Invert: 5.09'

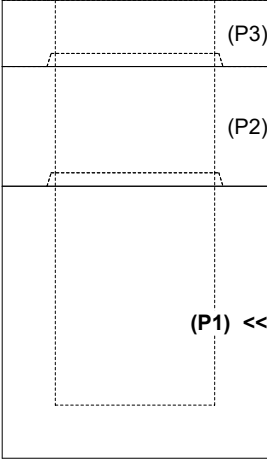
Slack: 0.08"

Sump: 0"

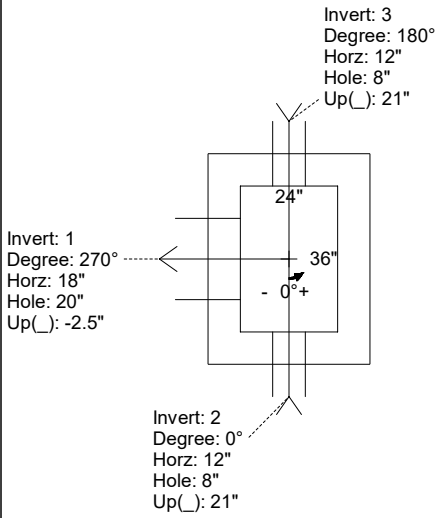
Step Position:

| Position | Elev    | Angle | Ext. (cw) | Pipe                | Pipe OD | Connector | Hole | Horz Size | Up ( _ ) | Offset |
|----------|---------|-------|-----------|---------------------|---------|-----------|------|-----------|----------|--------|
| Invert 1 | 832.1'  | 270°  | 26"       | 15" ADS N-12        | 18"     | Hole 20   | 20"  | 20"       | -2.5"    | 0"     |
| Invert 2 | 834.02' | 0°    | 20"       | 4" HDPE (perf pipe) | 4.8"    | Hole 8    | 8"   | 8"        | 21"      | 0"     |
| Invert 3 | 834.02' | 180°  | 20"       | 4" HDPE (perf pipe) | 4.8"    | Hole 8    | 8"   | 8"        | 21"      | 0"     |
| Invert 4 |         |       |           |                     |         |           |      |           |          |        |
| Invert 5 |         |       |           |                     |         |           |      |           |          |        |
| Invert 6 |         |       |           |                     |         |           |      |           |          |        |
| Invert 7 |         |       |           |                     |         |           |      |           |          |        |
| Invert 8 |         |       |           |                     |         |           |      |           |          |        |

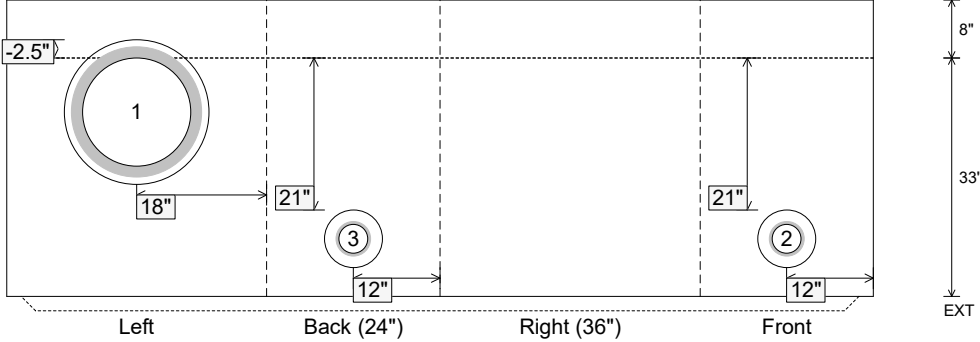
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

Height (Int): 33"

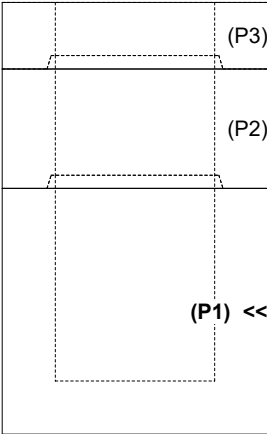
Height (Ext): 41"

Weight (Net): 4485 lb

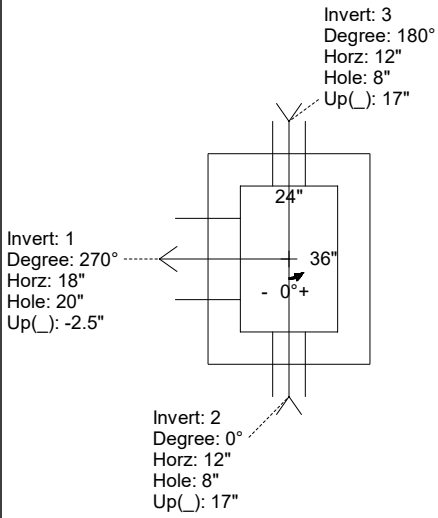
Volume (Net): 1.15cu.yd

|                                                                                                                                                                                                                                                                                                                                                                                                |         |       |           |                     |                                   |                                                                                                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                    |        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|-----------|---------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320)<br>Job Location: Independence, KY<br>Contractor: Eaton Asphalt                                                                                                                                                                                                                                                                            |         |       |           |                     | Plant: 100<br>6/4/2026 4:53:02 PM |                                                                                                                        | Tech: Jared - A<br>PC: J. Jarvis |                                                                                                                                                                                                                                                                                                                                                                                            |  |        |  |
| Structure ID: 512                                                                                                                                                                                                                                                                                                                                                                              |         |       |           |                     |                                   |                                                                                                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                    |        |  |
| P1 BX2436-08BVF BOX BASE 8inW, 8inF, Variable Ht T/n                                                                                                                                                                                                                                                                                                                                           |         |       |           |                     |                                   |                                                                                                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                    |        |  |
| <p>P3) 24" x 120" - CB INLET KY A 10' TOP LEFT F/G - 10"<br/>P2) 24" x 120" - CB INLET KY A 10' BOTTOM LEFT T/G - 18"<br/>P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 29"</p> <p>1) CASTING - HOE KY-206 F/C (KY TY1)<br/>1) This Structure Includes a Cast-in Item - KY-206 Frame (Supplied by iCast)<br/>1) 24" x 36" - Conseal CS-102 1.00"<br/>1) Hole - 20<br/>2) Hole - 8</p> |         |       |           |                     |                                   | <p>3400 lb<br/>5270 lb<br/>4077 lb<br/>206 lb<br/>0 lb<br/>0 lb<br/>0 lb<br/>0 lb</p> <p>Structure Total: 12953 lb</p> |                                  | <p>Structure Notes:</p> <p>** KYTC STATE PROJECT **</p> <p>1. PER KYTC CBI TY A / ASTM C-913 SPECS<br/>2. CONCRETE: 4,000 PSI AT 28 DAYS<br/>3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)<br/>4. NO STORM INVERT<br/>5. NO STEPS<br/>6. KY-206 FRAME &amp; COVER "STORM" SUPPLIED BY iCAST - FRAME TO BE CAST INTO TOP PHASE TOP FLANGE SIDE UP</p> |                                                                                    |        |  |
| Rim: 853.56' Rim to Invert: 4.75' Slack: 0" Sump: 0" Step Position:                                                                                                                                                                                                                                                                                                                            |         |       |           |                     |                                   |                                                                                                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                                                                                                                                       | Elev    | Angle | Ext. (cw) | Pipe                | Pipe OD                           | Connector                                                                                                              | Hole                             | Horz Size                                                                                                                                                                                                                                                                                                                                                                                  | Up ( )                                                                             | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                                                                                                                                       | 848.81' | 270°  | 26"       | 15" ADS N-12        | 18"                               | Hole 20                                                                                                                | 20"                              | 20"                                                                                                                                                                                                                                                                                                                                                                                        | -2.5"                                                                              | 0"     |  |
| Invert 2                                                                                                                                                                                                                                                                                                                                                                                       | 850.39' | 0°    | 20"       | 4" HDPE (perf pipe) | 4.8"                              | Hole 8                                                                                                                 | 8"                               | 8"                                                                                                                                                                                                                                                                                                                                                                                         | 17"                                                                                | 0"     |  |
| Invert 3                                                                                                                                                                                                                                                                                                                                                                                       | 850.39' | 180°  | 20"       | 4" HDPE (perf pipe) | 4.8"                              | Hole 8                                                                                                                 | 8"                               | 8"                                                                                                                                                                                                                                                                                                                                                                                         | 17"                                                                                | 0"     |  |
| Invert 4                                                                                                                                                                                                                                                                                                                                                                                       |         |       |           |                     |                                   |                                                                                                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                                                                                                                                       |         |       |           |                     |                                   |                                                                                                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                                                                                                                                       |         |       |           |                     |                                   |                                                                                                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                                                                                                                                       |         |       |           |                     |                                   |                                                                                                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                                                                                                                                       |         |       |           |                     |                                   |                                                                                                                        |                                  |                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                    |        |  |

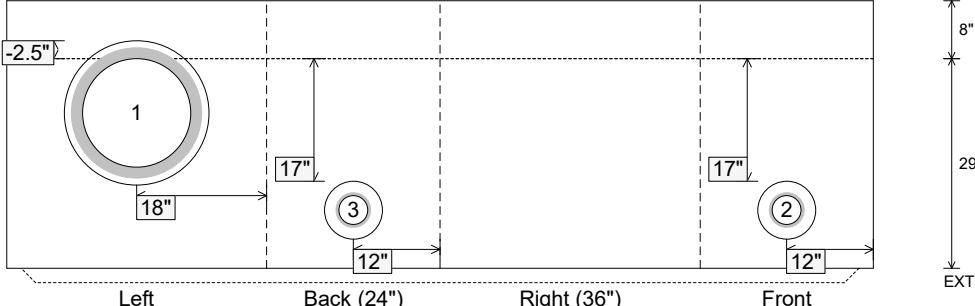
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



|                                  |                                 |                                        |                                        |                                                  |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Tongue<br>Seam Dn: n/a | Wall Thickness: 8"<br>Floor Height: 8" | Height (Int): 29"<br>Height (Ext): 37" | Weight (Net): 4077 lb<br>Volume (Net): 1.04cu.yd |
|----------------------------------|---------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|



Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315)

Job Location: Indiana, KY

Contractor: Louisville Paving and Construction

Plant: 100

6/12/2026 3:09:29 PM

Tech: J. Horsley - A

PC: J. Jarvis



Structure ID: 53

P1 BX2424-08BAVF

BOX BASE 8inW, 8inF, Variable Ht F/n

P3) 19.5" - CASTING (cast in) - 2.75"

P2) 24" x 24" - CB FLAT TOP 8"W (HOE KY-210) F/F - 8"

P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 40"

1) This Structure Includes a Cast-in Item - HOE KY-210 Frame (Supplied By Others)

1) 24" x 24" - Conseal CS-102 1.00"

1) Hole - 20

1) Hole - 18

0 lb

943 lb

4129 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 5072 lb

Structure Notes:

\*\* KYTC STATE PROJECT \*\*

1. PER KYTC DBI TYPE 14 / ASTM C-913 SPECS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)

4. HOE KY-210 FRAME & GRATE SUPPLIED BY OTHERS - FRAME TO BE CAST INTO FLAT LID

Rim: 551.5'

Rim to Invert: 4'

Slack: 0"

Sump: 0"

Step Position:

| Position | Elev   | Angle | Ext. (cw) | Pipe     | Pipe OD | Connector | Hole | Horz Size | Up ( ) | Offset |
|----------|--------|-------|-----------|----------|---------|-----------|------|-----------|--------|--------|
| Invert 1 | 547.5' | 180°  | 20"       | 15" HDPE | 17.6"   | Hole 20   | 20"  | 20"       | -2.5"  | 0"     |
| Invert 2 | 547.5' | 90°   | 20"       | 12" HDPE | 14.5"   | Hole 18   | 18"  | 18"       | -3"    | 0"     |
| Invert 3 |        |       |           |          |         |           |      |           |        |        |
| Invert 4 |        |       |           |          |         |           |      |           |        |        |
| Invert 5 |        |       |           |          |         |           |      |           |        |        |
| Invert 6 |        |       |           |          |         |           |      |           |        |        |
| Invert 7 |        |       |           |          |         |           |      |           |        |        |
| Invert 8 |        |       |           |          |         |           |      |           |        |        |

(P3)

(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

Left

Back (24")

Right (24")

Front

8"

40"

EXT

Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

Height (Int): 40"

Height (Ext): 48"

Weight (Net): 4129 lb

Volume (Net): 1.06cu.yd

|                                                                                                                                                                         |         |       |                                      |             |                                                                                                 |           |                                                                                                                                                                                                                                                                                            |           |                                                                                    |        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------------------------------------|-------------|-------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 24-4174 - PHS Athletic Facility<br>Job Location: Clarksville, IN<br>Contractor: Mac Construction & Excavating, Inc.                                           |         |       |                                      |             | Plant: 100<br>5/14/2026 7:04:06 AM                                                              |           | Tech: Jared - A<br>PC: J. Jarvis                                                                                                                                                                                                                                                           |           |  |        |  |
| Structure ID: 3                                                                                                                                                         |         |       |                                      |             |                                                                                                 |           |                                                                                                                                                                                                                                                                                            |           |                                                                                    |        |  |
| P1 BX2424-08BAVF                                                                                                                                                        |         |       | BOX BASE 8inW, 8inF, Variable Ht F/n |             |                                                                                                 |           |                                                                                                                                                                                                                                                                                            |           |                                                                                    |        |  |
| <div>P2) 24" x 24" - CASTING HEIGHT - 4"<br/>P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 34"<br/>1) 24" x 24" - Conseal CS-102 1.00"<br/>2) Hole - 12"</div> |         |       |                                      |             | <div>0 lb<br/>3836 lb<br/>0 lb<br/>0 lb<br/>-----<br/>3836 lb</div> <div>Structure Total:</div> |           | <div>Structure Notes:<br/>1. PER ASTM C-913 SPECIFICATIONS<br/>2. CONCRETE: 4,000 PSI AT 28 DAYS<br/>3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)<br/>4. NO STORM INVERT<br/>5. NO STEPS<br/>6. HOE 280T FRAME &amp; GRATE SUPPLIED BY OTHERS</div> |           |                                                                                    |        |  |
| Rim: 455.05' Rim to Invert: 3.26' Slack: 1.67" Sump: 0.55" Step Position:                                                                                               |         |       |                                      |             |                                                                                                 |           |                                                                                                                                                                                                                                                                                            |           |                                                                                    |        |  |
| Position                                                                                                                                                                | Elev    | Angle | Ext. (cw)                            | Pipe        | Pipe OD                                                                                         | Connector | Hole                                                                                                                                                                                                                                                                                       | Horz Size | Up ( )                                                                             | Offset |  |
| Invert 1                                                                                                                                                                | 451.79' | 245°  | 16.25"                               | 8" ADS N-12 | 9.1"                                                                                            | Hole 12   | 12"                                                                                                                                                                                                                                                                                        | 13.241"   | 0"                                                                                 | 5"     |  |
| Invert 2                                                                                                                                                                | 451.79' | 0°    | 20"                                  | 8" ADS N-12 | 9.1"                                                                                            | Hole 12   | 12"                                                                                                                                                                                                                                                                                        | 12"       | 0"                                                                                 | 0"     |  |
| Invert 3                                                                                                                                                                |         |       |                                      |             |                                                                                                 |           |                                                                                                                                                                                                                                                                                            |           |                                                                                    |        |  |
| Invert 4                                                                                                                                                                |         |       |                                      |             |                                                                                                 |           |                                                                                                                                                                                                                                                                                            |           |                                                                                    |        |  |
| Invert 5                                                                                                                                                                |         |       |                                      |             |                                                                                                 |           |                                                                                                                                                                                                                                                                                            |           |                                                                                    |        |  |
| Invert 6                                                                                                                                                                |         |       |                                      |             |                                                                                                 |           |                                                                                                                                                                                                                                                                                            |           |                                                                                    |        |  |
| Invert 7                                                                                                                                                                |         |       |                                      |             |                                                                                                 |           |                                                                                                                                                                                                                                                                                            |           |                                                                                    |        |  |
| Invert 8                                                                                                                                                                |         |       |                                      |             |                                                                                                 |           |                                                                                                                                                                                                                                                                                            |           |                                                                                    |        |  |

(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

INVERT 1  
Degree: 245°  
Horz: 11.875"  
Hole: 12"  
Up( ): 0"

24"

24"

- 0° +

INVERT 2  
Degree: 0°  
Horz: 12"  
Hole: 12"  
Up( ): 0"

INSIDE WALL DIMENSIONS

0"

1

11.875"

0"

2

12"

Left

Back (24")

Right (24")

Front

EXT

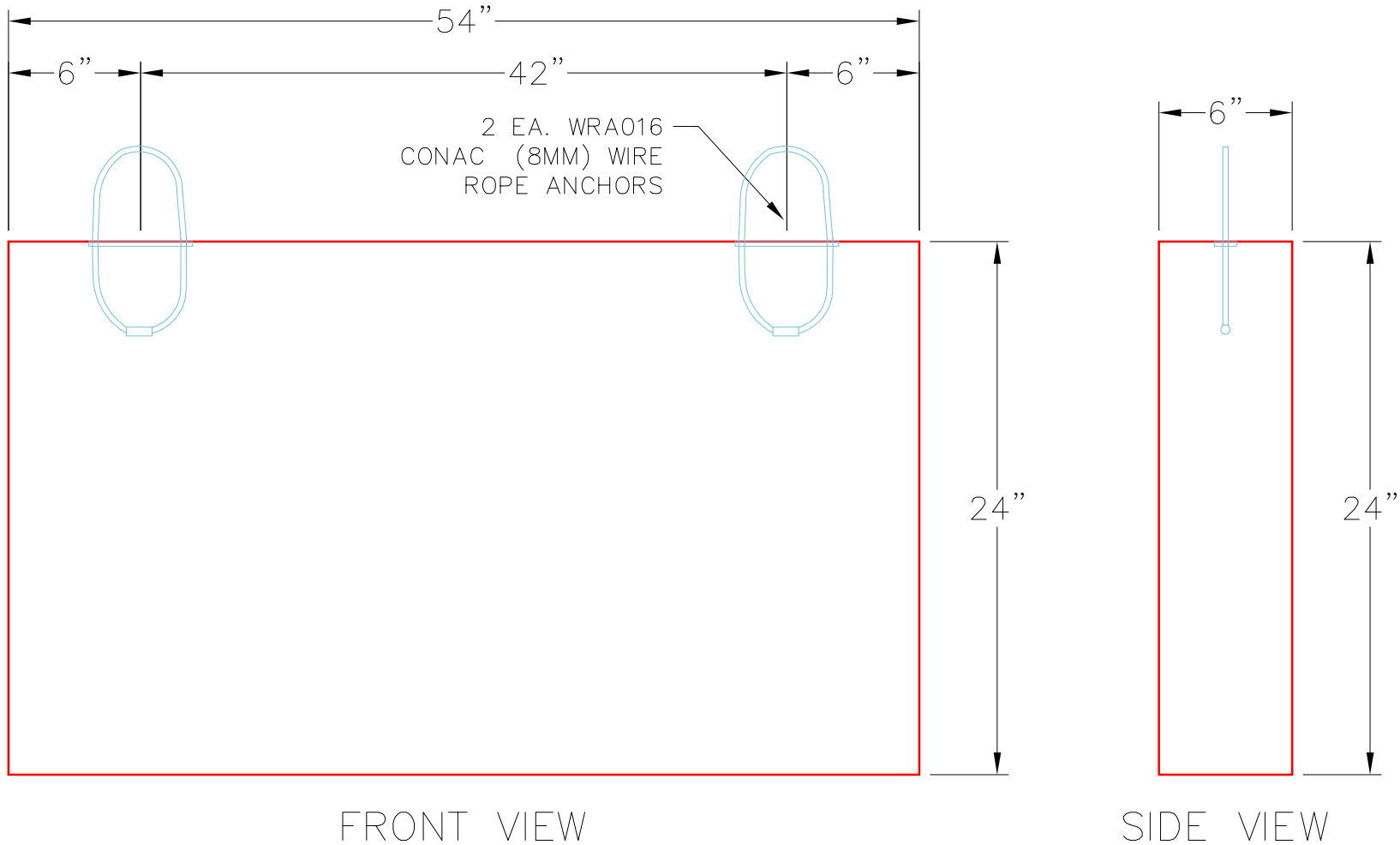
8"

34"

|                                  |                               |                                        |                                        |                                                  |
|----------------------------------|-------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Flat<br>Seam Dn: n/a | Wall Thickness: 8"<br>Floor Height: 8" | Height (Int): 34"<br>Height (Ext): 42" | Weight (Net): 3836 lb<br>Volume (Net): 0.98cu.yd |
|----------------------------------|-------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|

### GENERAL NOTES:

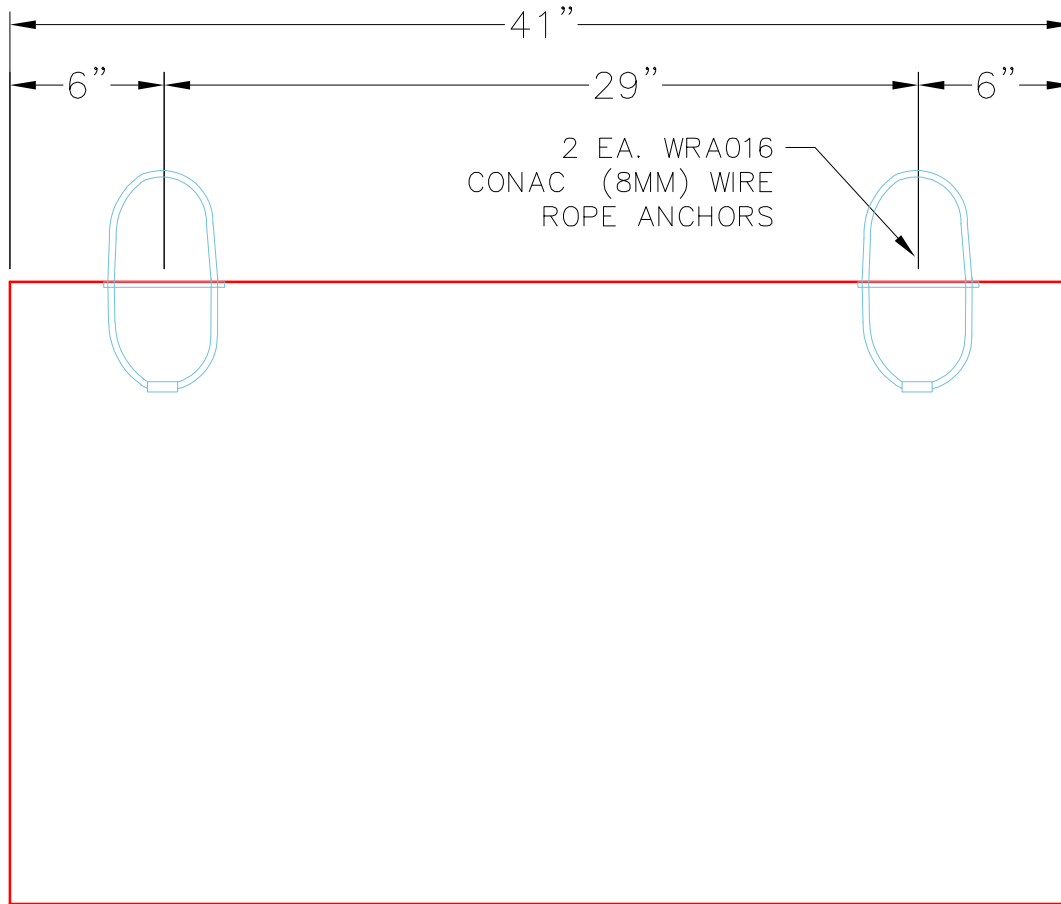
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS.
3. REINFORCING: #5 @ 12" C/C E.W. 2" COVER MIN.
4. WEIGHT: 653 LBS. EACH
5. CONTRACTOR TO SECURE FES TOE TO THE FES.



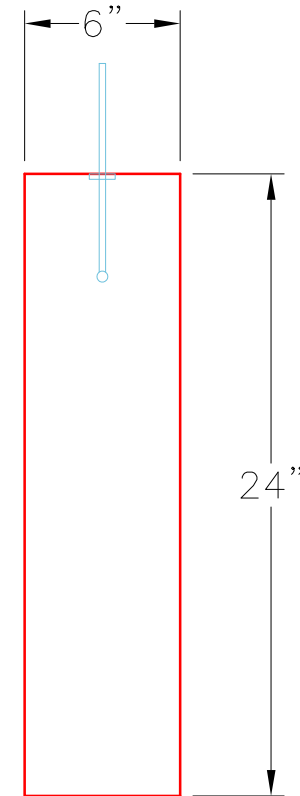
| PRODUCTION WORK ORDER                                                               |                                                                                                                                                                                                                                                                                                                                                                                        | PRODUCT I.D.: FES24B-TB     | DESCRIPTION: TOE FOR 24" FES   |                       |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|-----------------------|
|  | QUALITY CONTROL CHECKLIST<br><input type="checkbox"/> ALL DIMENSIONS CORRECT.<br><input type="checkbox"/> LIFTERS INSTALLED.<br><input type="checkbox"/> OPENING CENTERED.<br><input type="checkbox"/> REINFORCING CORRECT.<br><input type="checkbox"/> SURFACE QUALITY ACCEPTABLE.<br><input type="checkbox"/> EDGES CHAMFERED.<br><input type="checkbox"/> ALL PATCHWORK ACCEPTABLE. | PRODUCT VIEW: RIGHT SIDE UP | CUSTOMER: RUSSELL'S EXCAVATING |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | PLANT: BEAVER DAM, KY.      | PROJECT: PROJECT COLT          |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | WEIGHT: 653 LBS.            | STRUCTURE: 403-33 FES TOE      |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | TOP SECTION JOINT: N/A      | ORDER NO: 26-1227              |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | BASE SECTION JOINT: N/A     | PC: A. CHAMBERS                | DRAWING: J. COPPAGE   |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | QC CHECK INITIALS:          | DATE: 6/26/26                  | SCALE: NTS PG. 1 of 1 |

### GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS.
3. REINFORCING: #5 @ 12" C/C E.W. 2" COVER MIN.
4. WEIGHT: 495 LBS. EACH
5. CONTRACTOR TO SECURE FES TOE TO THE FES.



FRONT VIEW

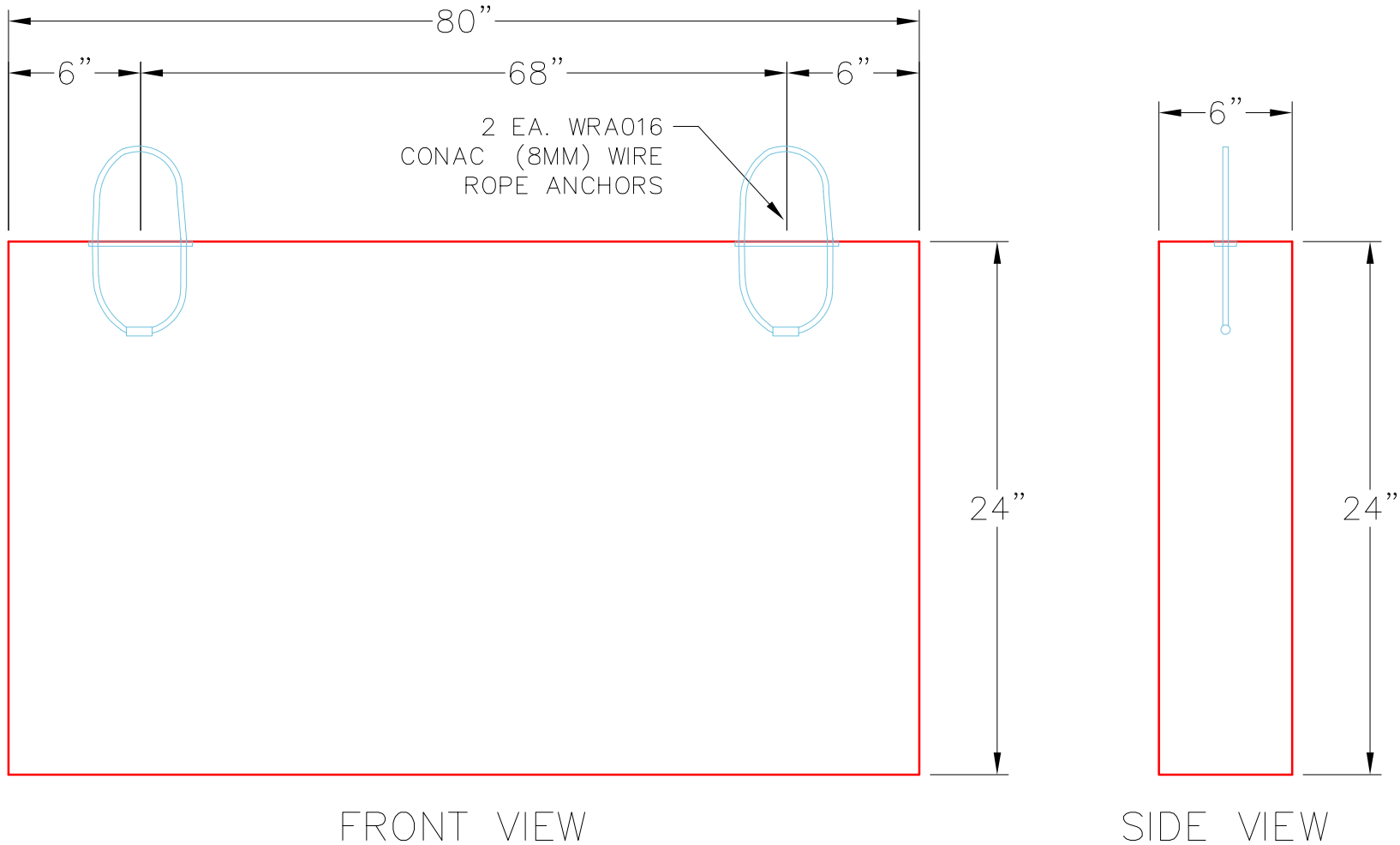


SIDE VIEW

| PRODUCTION WORK ORDER                                                               |                                                                                                                                                                                                                                                                                                                                                                                        | PRODUCT I.D.: FES18B-TB     | DESCRIPTION: TOE FOR 18" FES   |                       |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|-----------------------|
|  | QUALITY CONTROL CHECKLIST<br><input type="checkbox"/> ALL DIMENSIONS CORRECT.<br><input type="checkbox"/> LIFTERS INSTALLED.<br><input type="checkbox"/> OPENING CENTERED.<br><input type="checkbox"/> REINFORCING CORRECT.<br><input type="checkbox"/> SURFACE QUALITY ACCEPTABLE.<br><input type="checkbox"/> EDGES CHAMFERED.<br><input type="checkbox"/> ALL PATCHWORK ACCEPTABLE. | PRODUCT VIEW: RIGHT SIDE UP | CUSTOMER: RUSSELL'S EXCAVATING |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | PLANT: BEAVER DAM, KY.      | PROJECT: PROJECT COLT          |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | WEIGHT: 495 LBS.            | STRUCTURE: 210-31 FES TOE      |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | TOP SECTION JOINT: N/A      | ORDER NO: 26-1227              |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | BASE SECTION JOINT: N/A     | PC: A. CHAMBERS                | DRAWING: J. COPPAGE   |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | QC CHECK INITIALS:          | DATE: 6/26/26                  | SCALE: NTS PG. 1 of 1 |

### GENERAL NOTES:

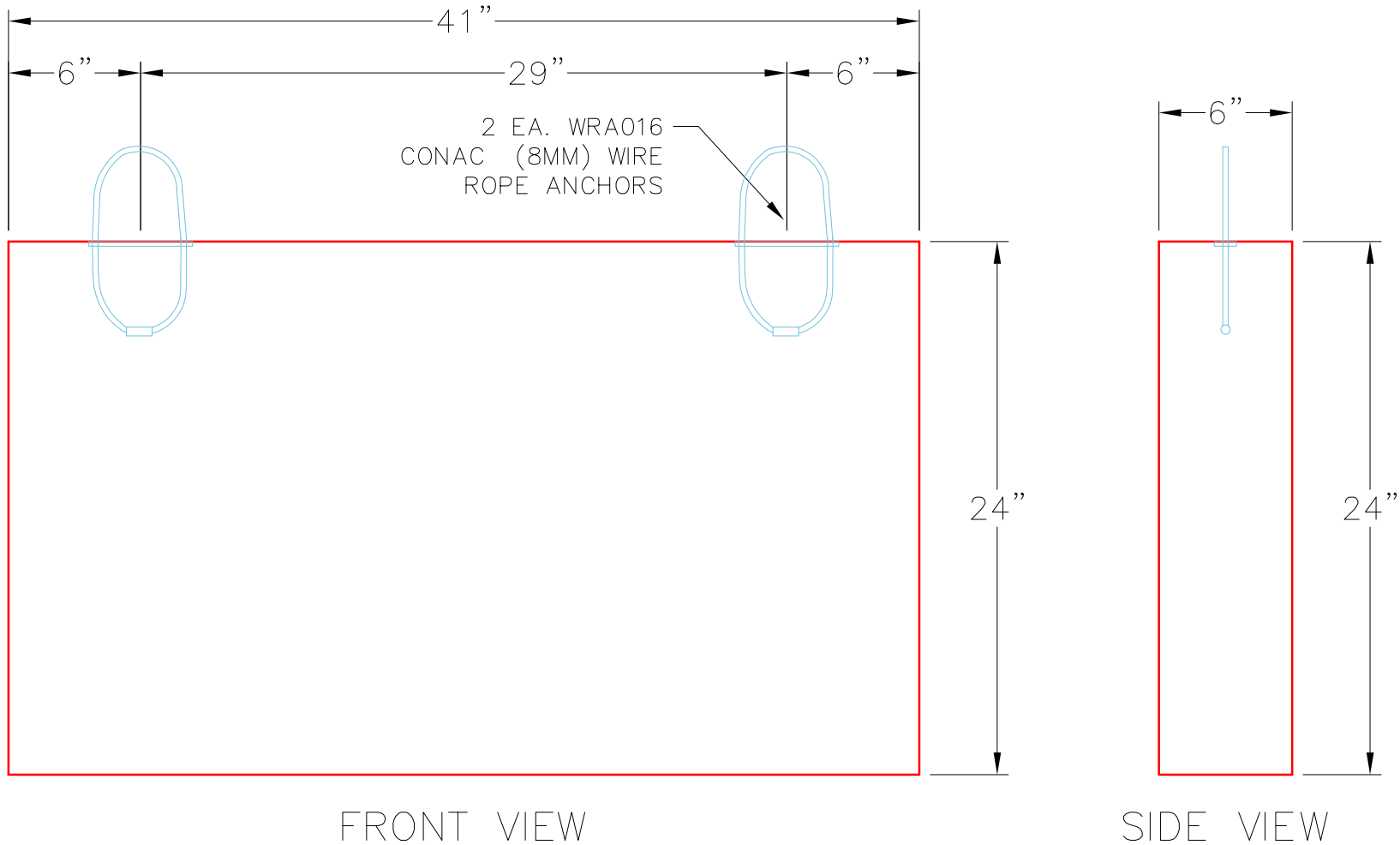
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS.
3. REINFORCING: #5 @ 12" C/C E.W. 2" COVER MIN.
4. WEIGHT: 967 LBS. EACH
5. CONTRACTOR TO SECURE FES TOE TO THE FES.



| PRODUCTION WORK ORDER                                                               |                                                                                                                                                                                                                                                                                                                                                                                        | PRODUCT I.D.: FES36B-TB     | DESCRIPTION: TOE FOR 36" FES   |                       |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|-----------------------|
|  | QUALITY CONTROL CHECKLIST<br><input type="checkbox"/> ALL DIMENSIONS CORRECT.<br><input type="checkbox"/> LIFTERS INSTALLED.<br><input type="checkbox"/> OPENING CENTERED.<br><input type="checkbox"/> REINFORCING CORRECT.<br><input type="checkbox"/> SURFACE QUALITY ACCEPTABLE.<br><input type="checkbox"/> EDGES CHAMFERED.<br><input type="checkbox"/> ALL PATCHWORK ACCEPTABLE. | PRODUCT VIEW: RIGHT SIDE UP | CUSTOMER: RUSSELL'S EXCAVATING |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | PLANT: BEAVER DAM, KY.      | PROJECT: PROJECT COLT          |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | WEIGHT: 967 LBS.            | STRUCTURE: 204-25 FES TOE      |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | TOP SECTION JOINT: N/A      | ORDER NO: 26-1227              |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | BASE SECTION JOINT: N/A     | PC: A. CHAMBERS                | DRAWING: J. COPPAGE   |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | QC CHECK INITIALS:          | DATE: 6/26/26                  | SCALE: NTS PG. 1 of 1 |

### GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS.
3. REINFORCING: #5 @ 12" C/C E.W. 2" COVER MIN.
4. WEIGHT: 495 LBS. EACH
5. CONTRACTOR TO SECURE FES TOE TO THE FES.



### PRODUCTION WORK ORDER

PRODUCT I.D.: FES18B-TB

DESCRIPTION: TOE FOR 18" FES



#### QUALITY CONTROL CHECKLIST

- ☐ ALL DIMENSIONS CORRECT.
- ☐ LIFTERS INSTALLED.
- ☐ OPENING CENTERED.
- ☐ REINFORCING CORRECT.
- ☐ SURFACE QUALITY ACCEPTABLE.
- ☐ EDGES CHAMFERED.
- ☐ ALL PATCHWORK ACCEPTABLE.

PRODUCT VIEW: RIGHT SIDE UP

PLANT: BEAVER DAM, KY.

WEIGHT: 495 LBS.

TOP SECTION JOINT: N/A

BASE SECTION JOINT: N/A

QC CHECK INITIALS:

CUSTOMER: RUSSELL'S EXCAVATING

PROJECT: PROJECT COLT

STRUCTURE: 208-29 FES TOE

ORDER NO: 26-1227

PC: A. CHAMBERS

DRAWING: J. COPPAGE

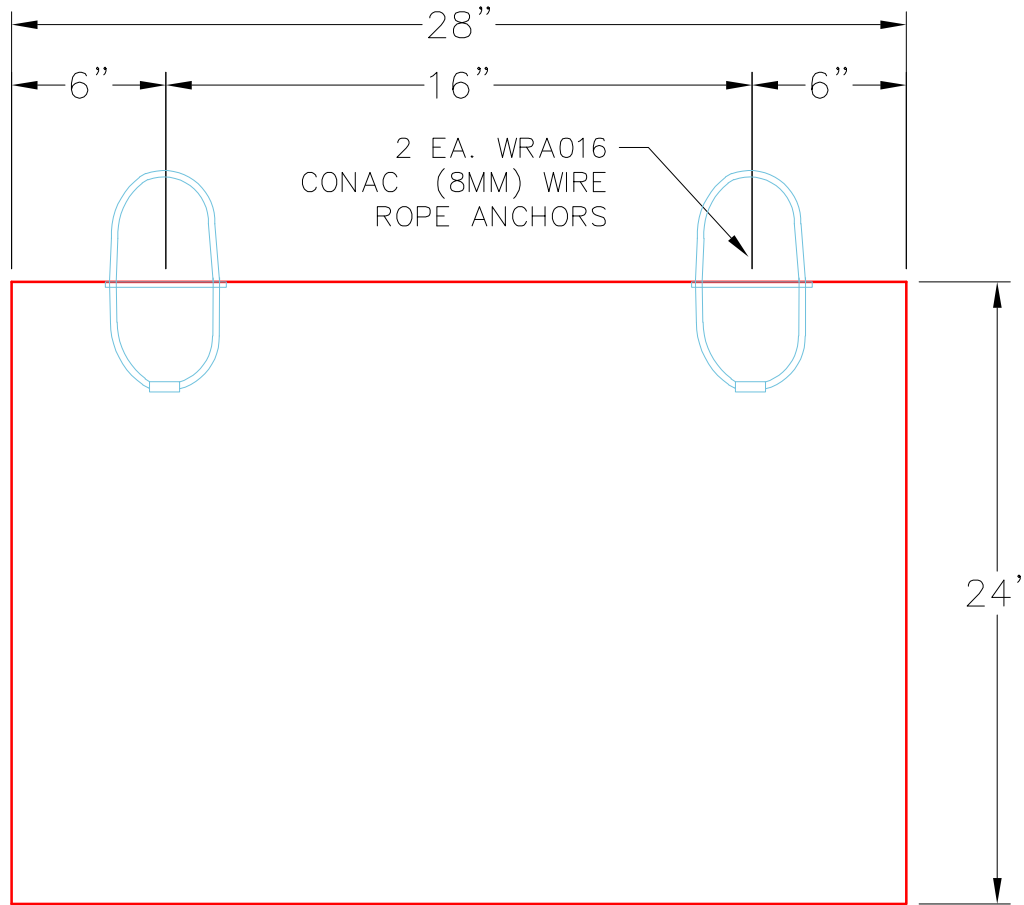
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SCALE: NTS

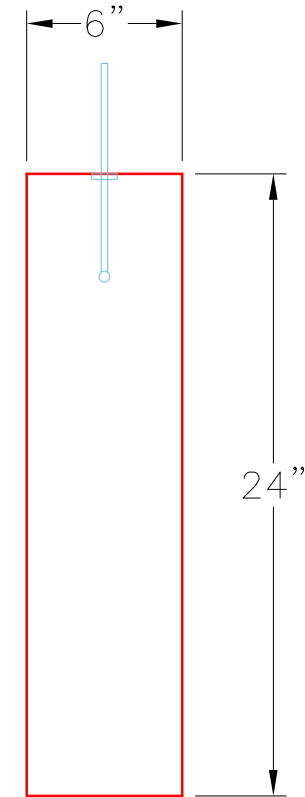
PG. 1 of 1

### GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS.
3. REINFORCING: #5 @ 12" C/C E.W. 2" COVER MIN.
4. WEIGHT: 338 LBS. EACH
5. CONTRACTOR TO SECURE FES TOE TO THE FES.



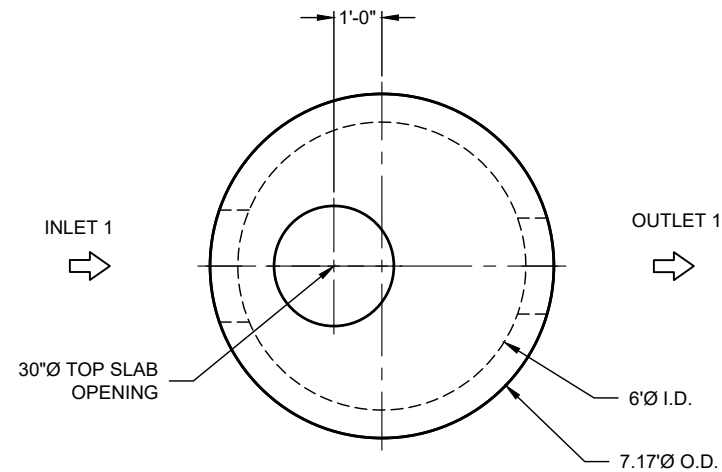
FRONT VIEW



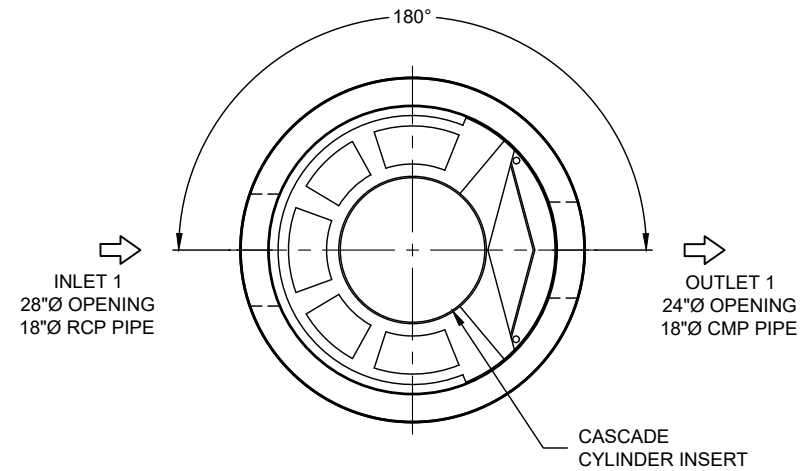
SIDE VIEW

| PRODUCTION WORK ORDER                                                               |                                                                                                                                                                                                                                                                                                                                                                                        | PRODUCT I.D.: FES12B-TB     | DESCRIPTION: TOE FOR 12" FES   |                       |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------|-----------------------|
|  | QUALITY CONTROL CHECKLIST<br><input type="checkbox"/> ALL DIMENSIONS CORRECT.<br><input type="checkbox"/> LIFTERS INSTALLED.<br><input type="checkbox"/> OPENING CENTERED.<br><input type="checkbox"/> REINFORCING CORRECT.<br><input type="checkbox"/> SURFACE QUALITY ACCEPTABLE.<br><input type="checkbox"/> EDGES CHAMFERED.<br><input type="checkbox"/> ALL PATCHWORK ACCEPTABLE. | PRODUCT VIEW: RIGHT SIDE UP | CUSTOMER: RUSSELL'S EXCAVATING |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | PLANT: BEAVER DAM, KY.      | PROJECT: PROJECT COLT          |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | WEIGHT: 338 LBS.            | STRUCTURE: 206-27 FES TOE      |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | TOP SECTION JOINT: N/A      | ORDER NO: 26-1227              |                       |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | BASE SECTION JOINT: N/A     | PC: A. CHAMBERS                | DRAWING: J. COPPAGE   |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | QC CHECK INITIALS:          | DATE: 6/26/26                  | SCALE: NTS PG. 1 of 1 |

26-2799 892503 Regent Crt Condo Unit 5

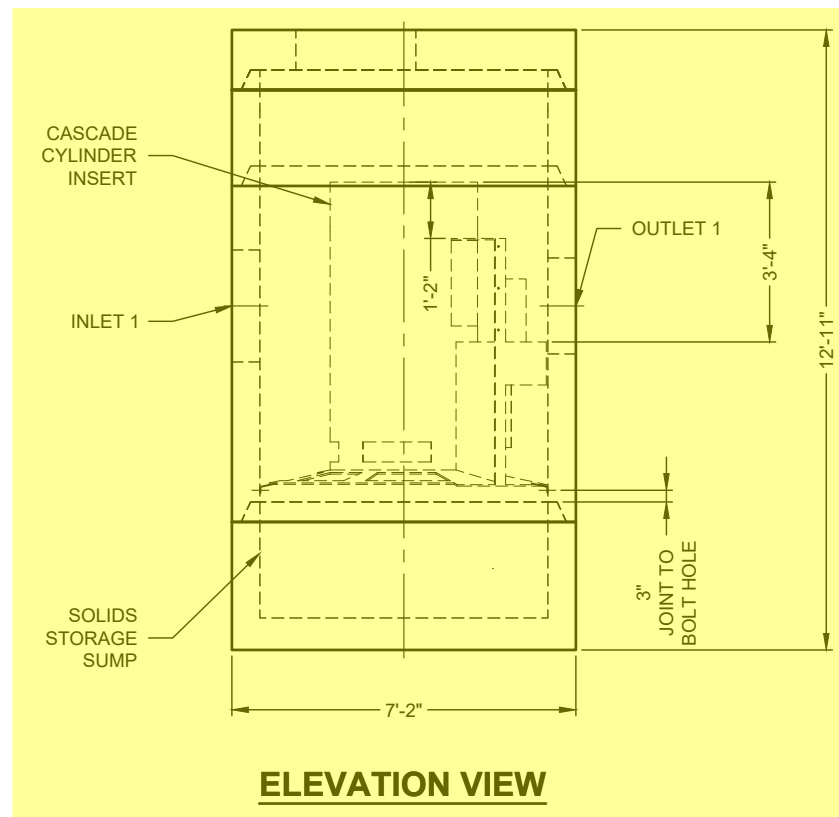


**PLAN VIEW**  
INTERNALS NOT SHOWN

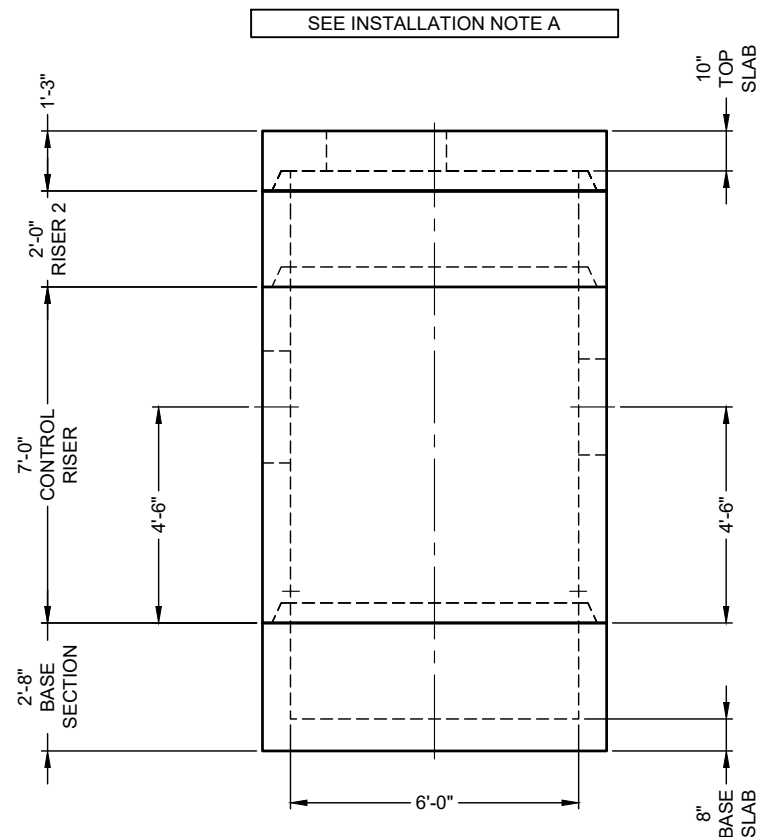


**PLAN VIEW FOR PIPE ORIENTATION**  
TOP SLAB NOT SHOWN

10-CS-6  
ICAST to fully pre-assemble internal  
materials prior to shipment



## ELEVATION VIEW



**PRECAST COMPONENTS**  
INTERNALS NOT SHOWN

ICAST  
5888 / 757440  
LAYOUT 1A  
14.24TS

## MATERIAL LIST

| COUNT | DESCRIPTION                                        | PART NUMBER | PROVIDED BY | INSTALLED BY |
|-------|----------------------------------------------------|-------------|-------------|--------------|
| 1     | CS-6 CYLINDER INSERT, STD.                         | 325-003951  | CONTECH     | PRECASTER    |
| 5     | CS-6 ALUMINUM INSTALLATION BRACKETS                | 325-003956  | CONTECH     | PRECASTER    |
| 1     | CS-6 HARDWARE KIT                                  | 325-003965  | CONTECH     | PRECASTER    |
| 1     | SEALANT FOR JOINTS                                 |             | PRECASTER   | CONTRACTOR   |
| 1     | 30"Ø X 4" FRAME AND COVER, EJ #41600483, OR EQUIV. | 325-000332  | CONTECH     | CONTRACTOR   |

### GENERAL NOTES

1. DESIGN LOADING - AASHTO HS-20
2. ALL PRECAST CONCRETE MANUFACTURED PARTS SHALL CONFORM TO ASTM C-478, WITH MINIMUM CONCRETE STRENGTH OF 4000 PSI AT 28 DAYS
3. JOINT SEALANT SHALL CONFORM TO ASTM C-990 OR ASTM C-443
4. GROUND WATER ELEVATION ASSUMED AT OUTLET INVERT
5. MANUFACTURING TOLERANCE = +/- 1/2-INCH
6. SOME HIDDEN LINES MAY BE OMITTED FOR CLARITY

## INSTALLATION NOTES

- A. PRECASTER TO SHIP ACCESS CASTINGS WITH STRUCTURE
- B. REFER TO CONTECH ASSEMBLY INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- C. PRECASTER TO INSTALL INTERNAL COMPONENTS PRIOR TO SHIPPING UNLESS INSTRUCTED OTHERWISE BY CONTECH
- D. PIPE OPENINGS SHALL BE STENCILED "INLET" OR "OUTLET" AS APPROPRIATE
- E. APPLYING ALIGNMENT MARKS ON ALL PIECES OF MULTIPLE PIECE ASSEMBLIES IS ENCOURAGED
- F. IF STRUCTURE IS DELIVERED IN MULTIPLE SECTIONS, EACH PIECE SHALL BE LABELED WITH THE CONTECH PROJECT NUMBER, SEQUENCE NUMBER AND SITE DESIGNATION

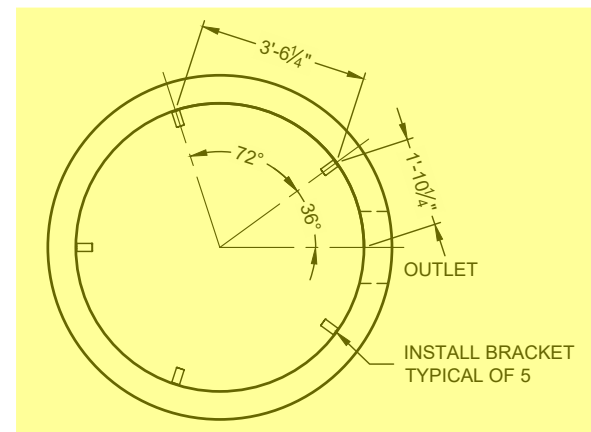
## SITE INFORMATION

RIM ELEV. = 602.5+/-  
TOP OF STRUCTURE = 601.90  
INLET PIPE 1 INVERT ELEV. = 595.40  
INLET PIPE 1 DIAMETER AND MATERIAL = 18"Ø RCP  
OUTLET PIPE INVERT ELEV. = 595.40  
OUTLET PIPE DIAMETER AND MATERIAL = 18"Ø CMP  
OUTSIDE BOTTOM OF STRUCTURE ELEV. = 588.98

## STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 12500 LBS.  
STRUCTURE IS DELIVERED IN 4 PIECES

TOP SLAB = 5000 LBS.  
RISER 2 = 4000 LBS. LBS.  
CONTROL RISER = 12500 LBS.  
BASE SECTION = 8500 LBS.



### SUPPORT BRACKET LAYOUT PLAN VIEW

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[illegible]

CS-6 - 892503-10  
REGENT COURT CONDOMINIUMS -  
UNIT 5  
DEARBORN, MI  
SITE DESIGNATION: MH-6

**CONTECH<sup>®</sup>**  
ENGINEERED SOLUTIONS LLC  
A **CONTECH COMPANY**  
9100 Centex Parkway Dr., Suite 400, West Chester, OH 45399  
800-338-1222 513-645-7000 513-642-7003 FAX

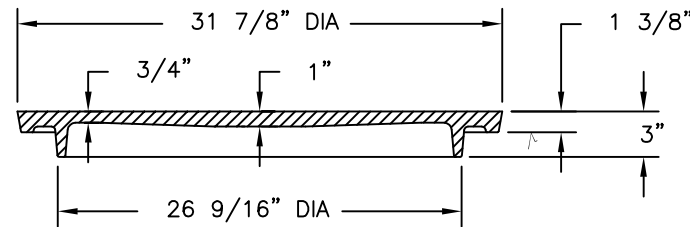
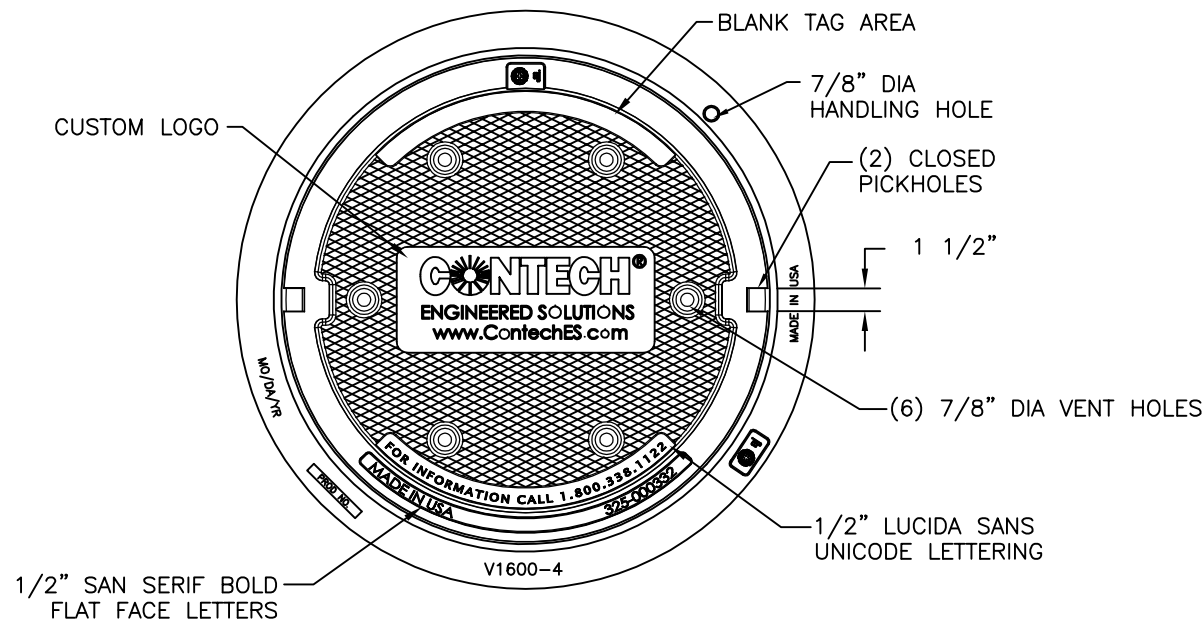
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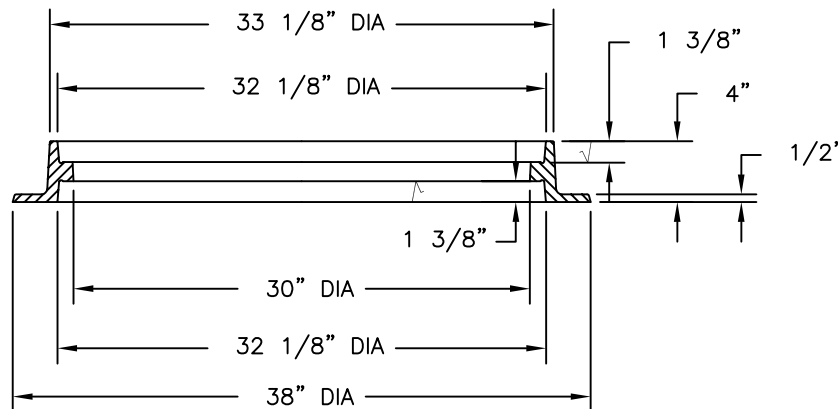
|                        |                     |
|------------------------|---------------------|
| DATE:<br>6/11/26       |                     |
| DESIGNED:<br>MSB       | DRAWN:<br>JGB       |
| CHECKED:<br>MSB        | APPROVED:<br>MSB    |
| PROJECT No.:<br>892503 | SEQUENCE No.:<br>10 |
| SHEET:<br>1 OF 1       |                     |



# 1810B4 V1600-4 Assembly



**COVER SECTION**



**FRAME SECTION**

## Product Number

**41600483**

## Design Features

-Materials

Cover

Gray Iron (CL35B)

Frame

Gray Iron (CL35B)

-Design Load

Heavy Duty

-Open Area

n/a

-Coating

Undipped

-✓ Designates Machined Surface

## Certification

- ASTM A48

-Country of Origin: USA

## Major Components

00180783

41600410

## Drawing Revision

05/09/2007 Designer: SMH

6/26/2017 Revised By: DAE

## Disclaimer

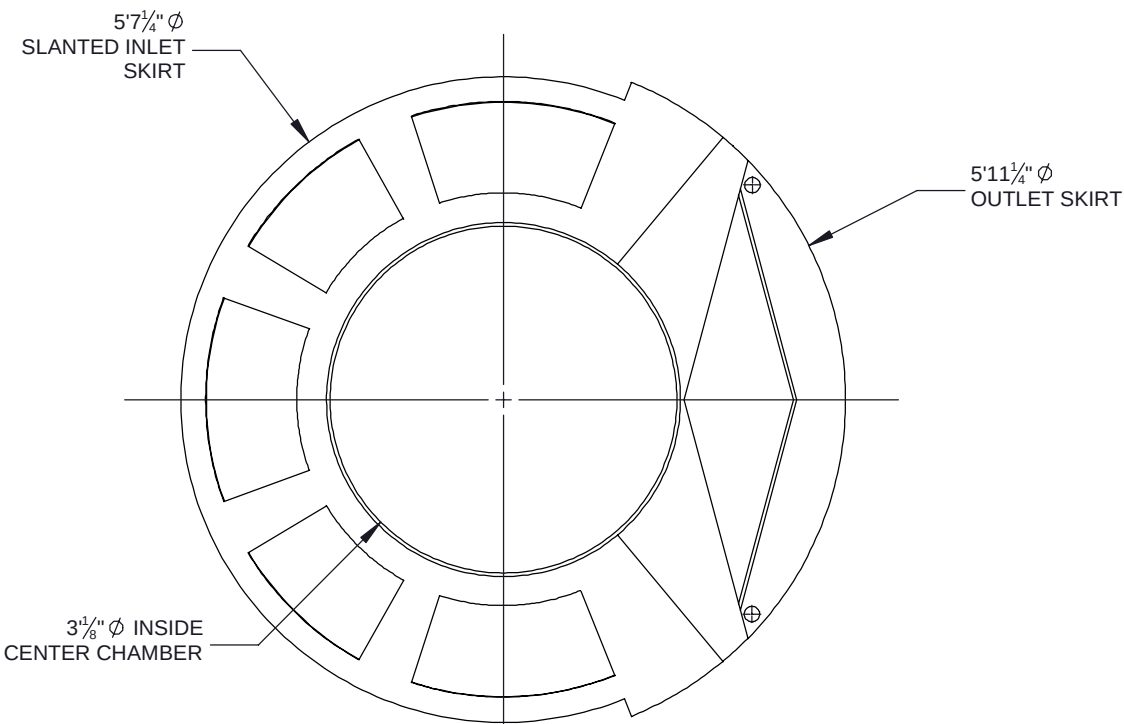
Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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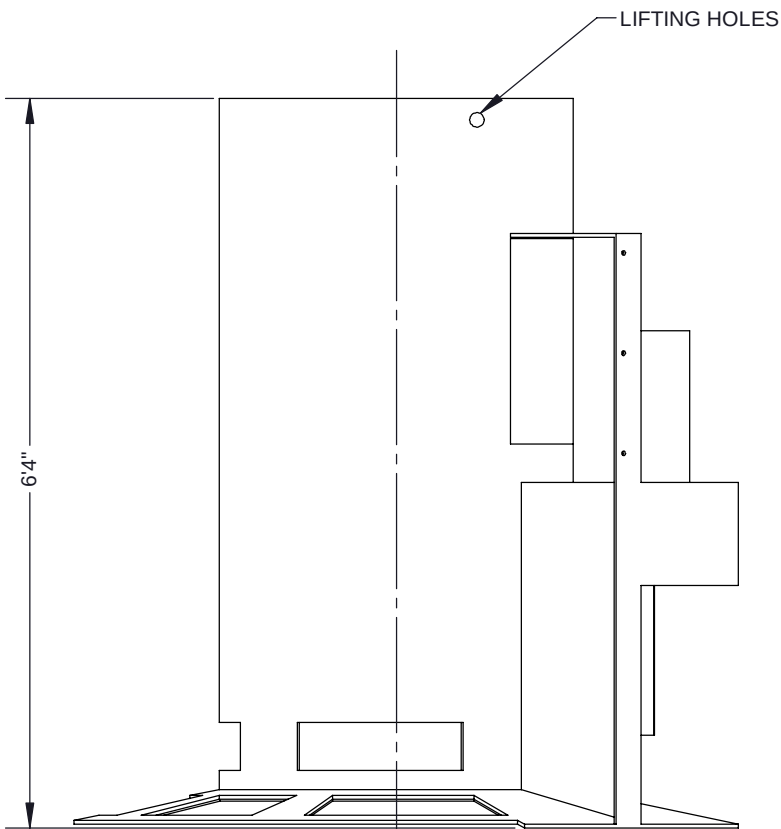
## Contact

800 626 4653

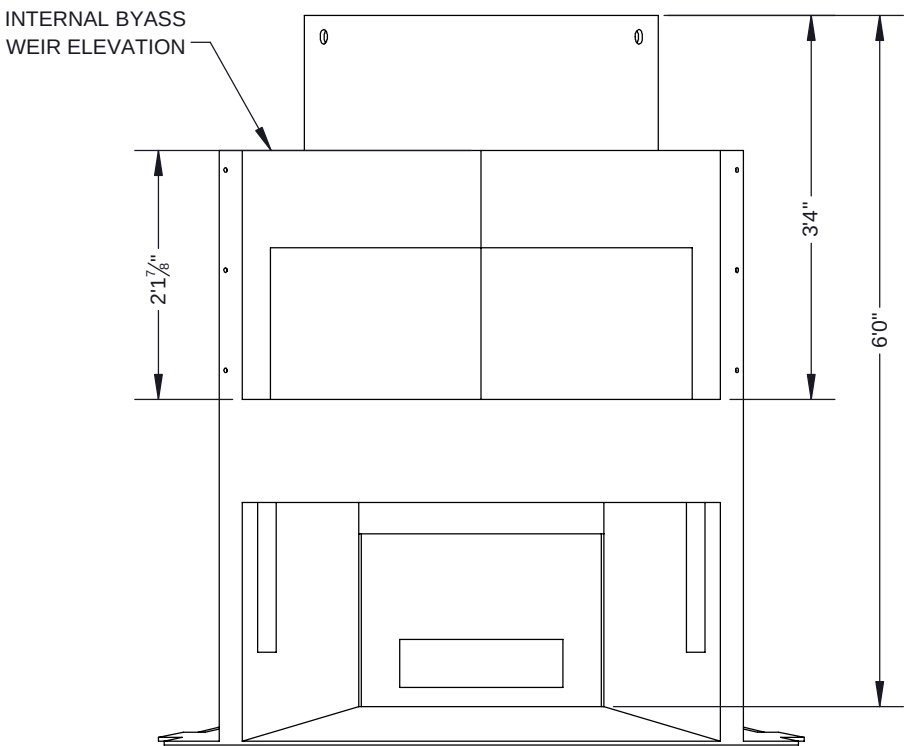
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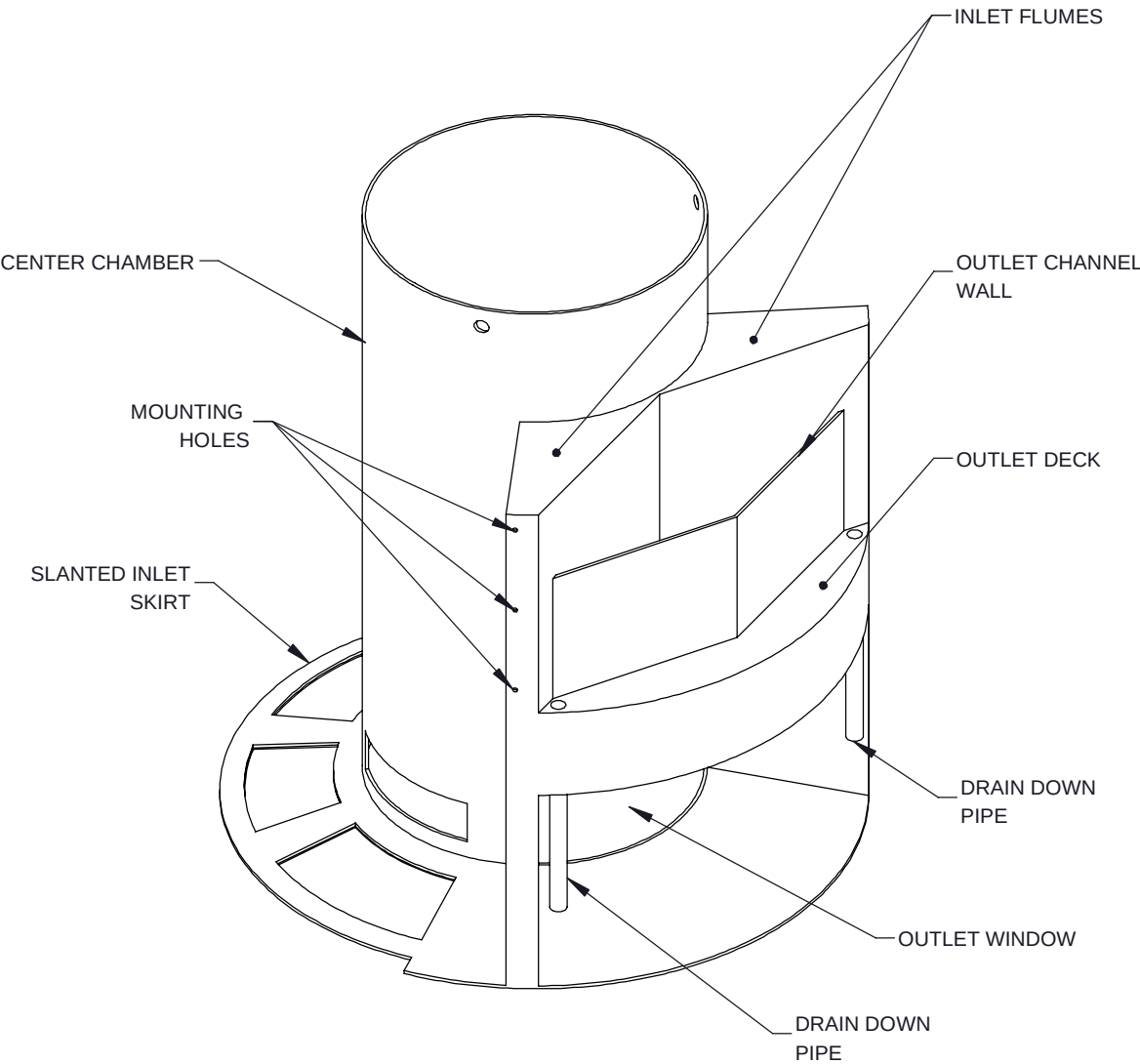
PLAN VIEW



ELEVATION VIEW



ELEVATION VIEW: OUTLET SIDE



ISOMETRIC VIEW

- NOTES:
- SEE CASCADE SEPARATOR INSTALLATION GUIDE FOR ADDITIONAL INFORMATION

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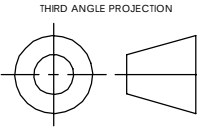
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REFERENCE DETAIL  
INTERNALS CS-6  
CASCADE SEPARATOR

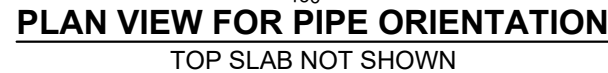


UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGLES  $\pm 1$  DEGREE  
TWO PLACE DECIMAL  $\pm 0.06$   
THREE PLACE DECIMAL  $\pm 0.030$

|                                 |                              |           |
|---------------------------------|------------------------------|-----------|
| PART NUMBER: 325-003951         |                              |           |
| APPROVED BY:<br>M. BROOKS       | DRAWN BY:<br>J. BELL         |           |
| APPROVED BY DATE:<br>2021.10.21 | DRAWN BY DATE:<br>2021.09.15 | REV:<br>B |
| SCALE:<br>N/A                   | SHEET 1 OF 1                 |           |

PROJECTS\855358-20-CASCADE\DRAWINGS\855358-20-CS 12-CONFAB DWG 5/11/2026 2:51 PM  
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INTERNAL COMPONENTS TO BE INSTALLED  
ON SITE BY CONTECH FIELD CONSULTANT.  
PRECASTER TO SHIP ALL INTERNAL  
COMPONENTS WITH STRUCTURE

SEE INSTALLATION NOTE A



ICAST  
5888 / 757440  
LAYOUT 1A  
72.64TS

| COUNT | DESCRIPTION                                        | PART NUMBER | PROVIDED BY | INSTALLED BY |
|-------|----------------------------------------------------|-------------|-------------|--------------|
| 1     | CS-12 CYLINDER INSERT, STD                         | 325-003982  | CONTECH     | CONTRACTOR   |
| 1     | CS-12 CYLINDER TOP                                 | 325-003988  | CONTECH     | CONTRACTOR   |
| 10    | CS-12 ALUMINUM INSTALLATION BRACKETS               | 325-003971  | CONTECH     | PRECASTER    |
| 1     | CS-12 HARDWARE KIT                                 | 325-003983  | CONTECH     | CONTRACTOR   |
| 1     | SEALANT FOR JOINTS                                 |             | PRECASTER   | CONTRACTOR   |
| 2     | 24"Ø X 4" FRAME AND COVER, EJ #41600389, OR EQUIV. | 325-000350  | CONTECH     | CONTRACTOR   |

1. DESIGN LOADING - AASHTO HS-20
2. ALL PRECAST CONCRETE MANUFACTURED PARTS SHALL CONFORM TO ASTM C-478, WITH MINIMUM CONCRETE STRENGTH OF 4000 PSI AT 28 DAYS
3. JOINT SEALANT SHALL CONFORM TO ASTM C-990 OR ASTM C-443
4. GROUND WATER ELEVATION ASSUMED AT OUTLET INVERT
5. MANUFACTURING TOLERANCE = +/- 1/2-INCH
6. SOME HIDDEN LINES MAY BE OMITTED FOR CLARITY

- A. PRECASTER TO SHIP ACCESS CASTINGS WITH STRUCTURE
- B. REFER TO CONTECH ASSEMBLY INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- C. PRECASTER TO INSTALL INTERNAL COMPONENTS PRIOR TO SHIPPING UNLESS INSTRUCTED OTHERWISE BY CONTECH
- D. PIPE OPENINGS SHALL BE STENCILED "INLET" OR "OUTLET" AS APPROPRIATE
- E. APPLYING ALIGNMENT MARKS ON ALL PIECES OF MULTIPLE PIECE ASSEMBLIES IS ENCOURAGED
- F. IF STRUCTURE IS DELIVERED IN MULTIPLE SECTIONS, EACH PIECE SHALL BE LABELED WITH THE CONTECH PROJECT NUMBER, SEQUENCE NUMBER AND SITE DESIGNATION

RIM ELEV. = 1000.5+/-  
TOP OF STRUCTURE = 1000.08  
INLET PIPE 1 INVERT ELEV. = 993.25  
INLET PIPE 1 DIAMETER AND MATERIAL = 36"Ø RCP  
OUTLET PIPE INVERT ELEV. = 993.25  
OUTLET PIPE DIAMETER AND MATERIAL = 36"Ø RCP  
OUTSIDE BOTTOM OF STRUCTURE ELEV. = 993.08

APPROXIMATE HEAVIEST PICK = 44500 LBS.  
STRUCTURE IS DELIVERED IN 4 PIECES

TOP SLAB = 25500 LBS.  
RISER 2 = 43000 LBS.  
CONTROL RISER = 41000 LBS.  
BASE SECTION = 44500 LBS.



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CS-12 - 855358-020  
FUQUA DEVELOPMENT - STONEDALE  
NICHOLASVILLE, KY  
SITE DESIGNATION: WQU #3

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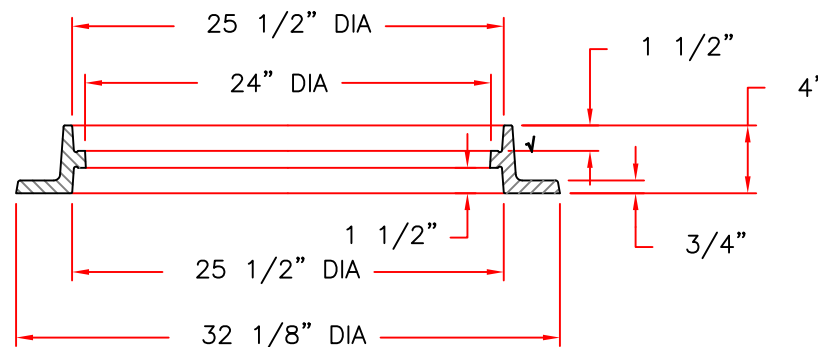
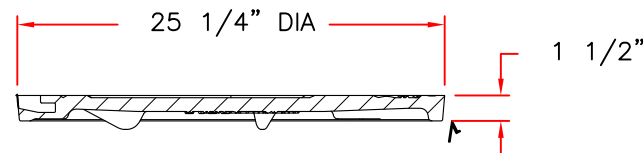
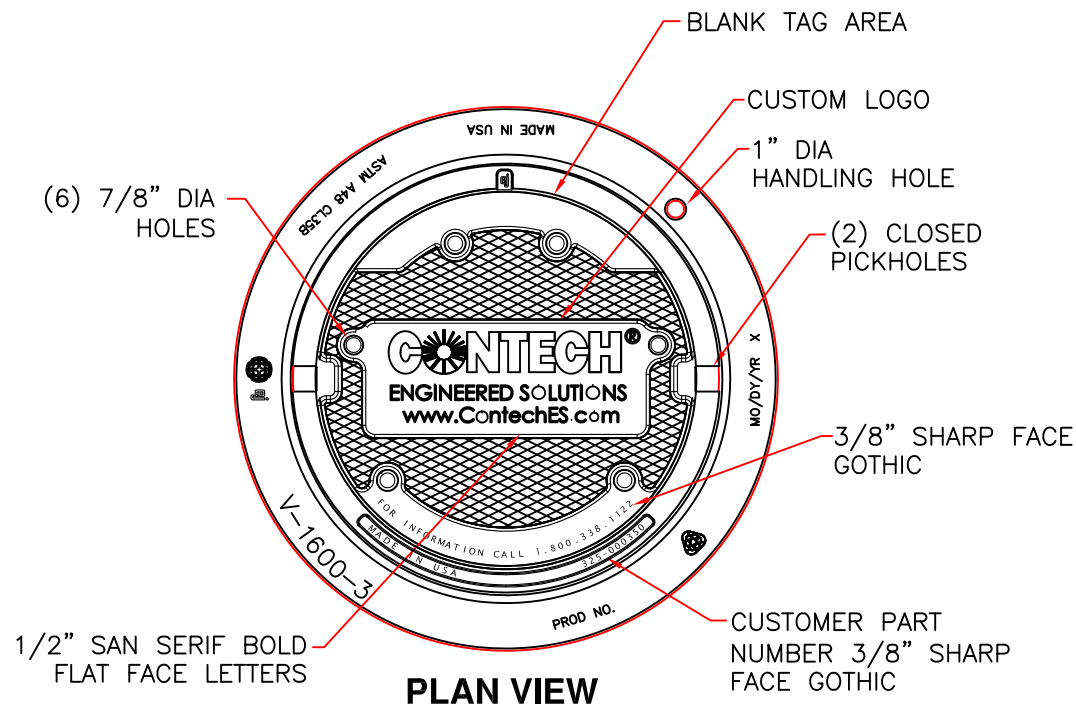
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|              |               |
|--------------|---------------|
| DATE:        |               |
| 4/23/2026    |               |
| DESIGNED:    | DRAWN:        |
| MDB          | JRP           |
| CHECKED:     | APPROVED:     |
| LJK          | MDB           |
| PROJECT No.: | SEQUENCE No.: |
| 855358       | 020           |
| SHEET:       |               |
| 1            | OF 1          |

# 26-2485 855358 Fuqua Development

## V1600-3 V1610-3 Assembly



### Product Number

41600389

### Design Features

- Materials
  - Frame
    - Gray Iron (CL35B)
  - Cover
    - Gray Iron (CL35B)

- Design Load
  - Heavy Duty
- Open Area
  - n/a
- Coating
  - Undipped
- √ Designates Machined Surface

### Certification

- 
- ASTM A48
- 
- Country of Origin: USA

### Major Components

41600310  
41600374

### Drawing Revision

05/02/2008 Designer: DEW  
6/20/2017 Revised By: DAE

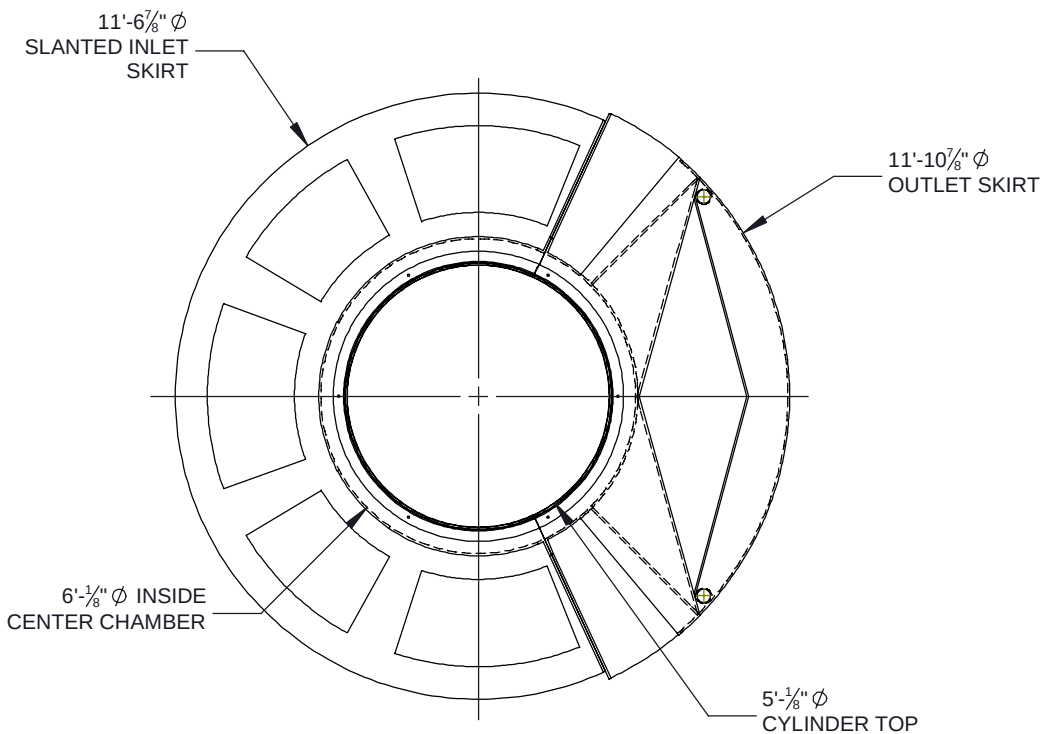
### Disclaimer

Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

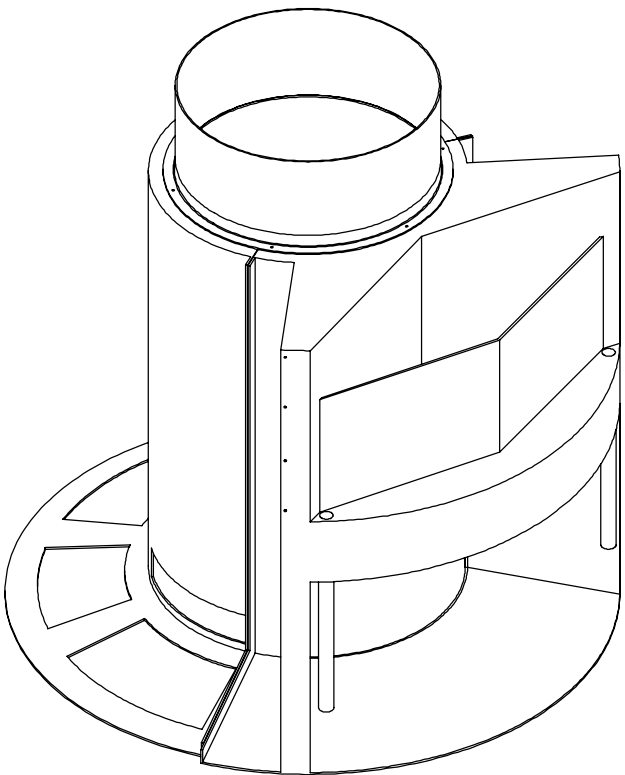
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### Contact

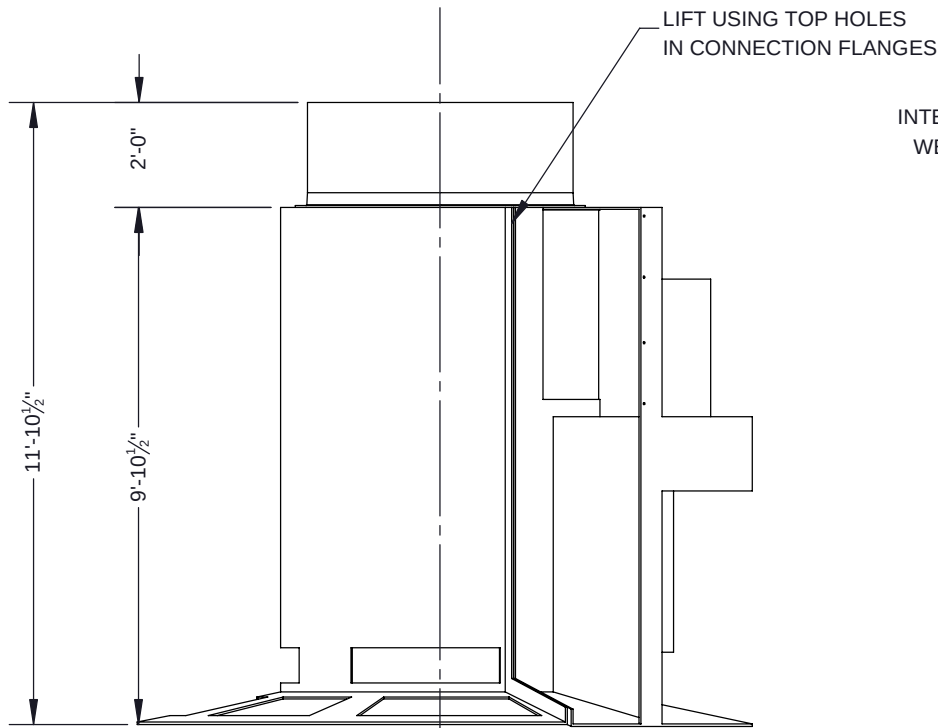
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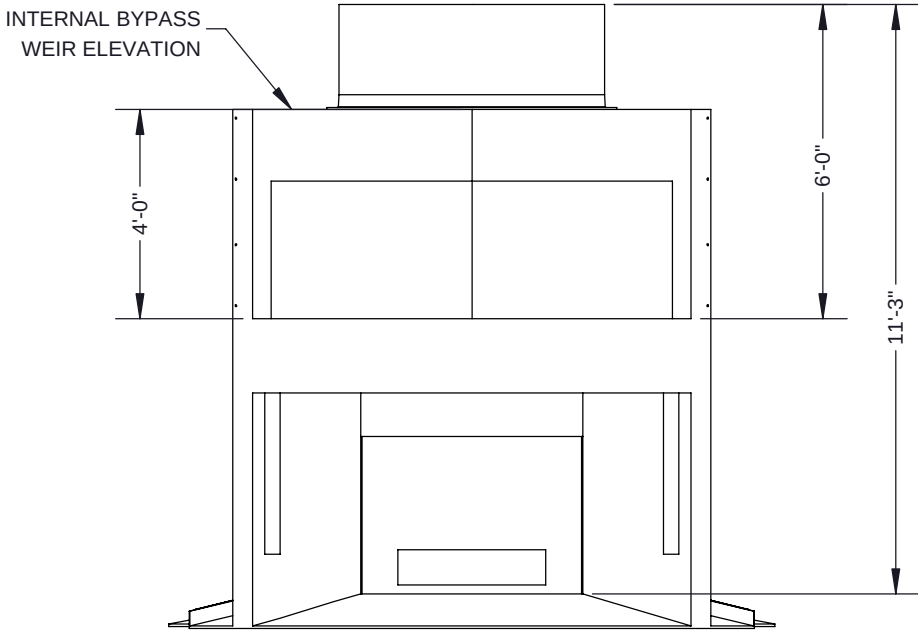
PLAN VIEW



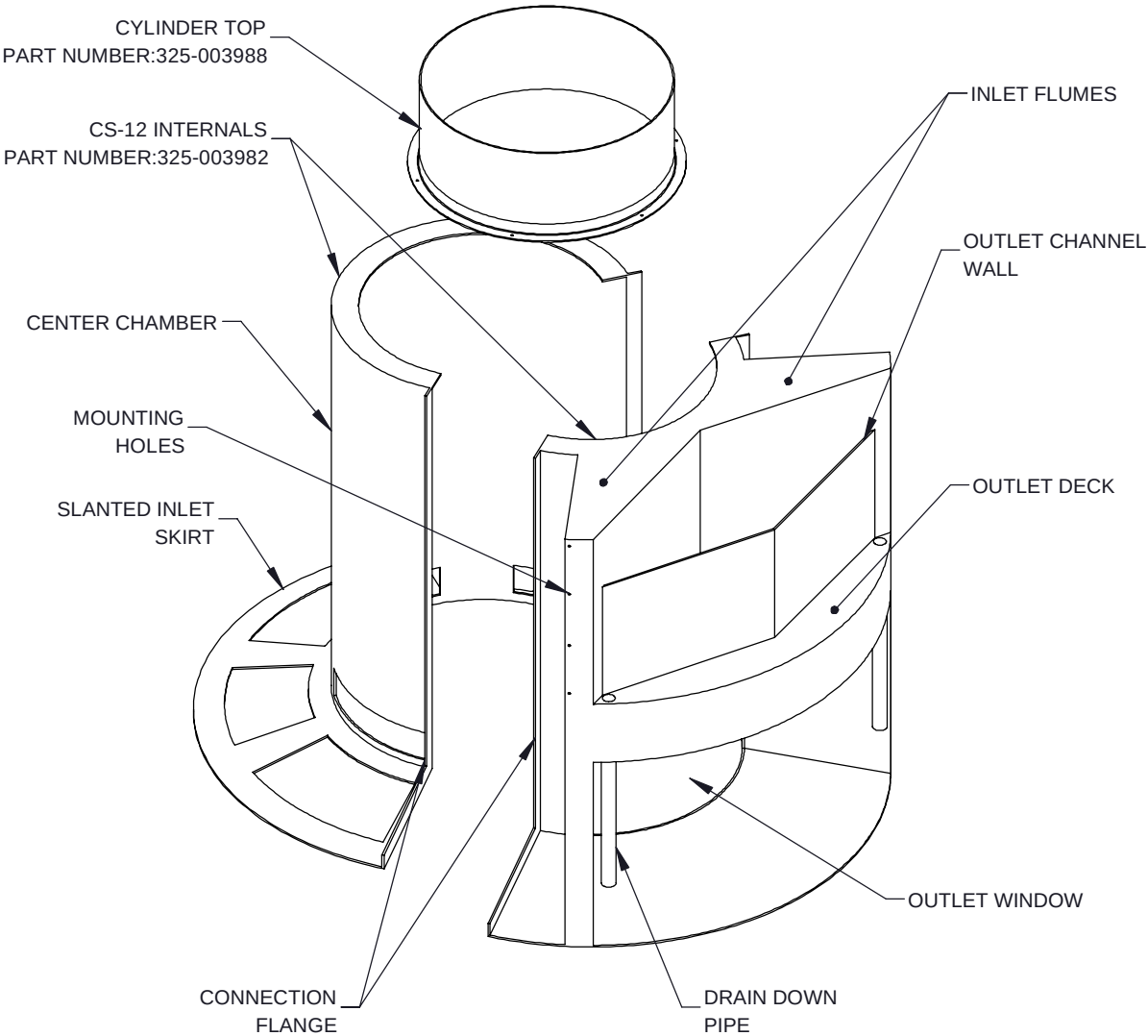
ISOMETRIC VIEW



ELEVATION VIEW



ELEVATION VIEW: OUTLET SIDE



EXPLODED ISOMETRIC VIEW

NOTES:  
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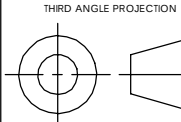
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TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGLES  $\pm 1$  DEGREE  
TWO PLACE DECIMAL  $\pm 0.06$   
THREE PLACE DECIMAL  $\pm 0.030$

|                                  |                              |           |
|----------------------------------|------------------------------|-----------|
| PART NUMBER: 325-003982 & 003988 |                              |           |
| APPROVED BY:<br>M. BROOKS        | DRAWN BY:<br>J. BELL         |           |
| APPROVED BY DATE:<br>2021.10.21  | DRAWN BY DATE:<br>2021.09.16 | REV:<br>C |
| SCALE:<br>N/A                    | SHEET 1 OF 1                 |           |



CONTOUR: 15-CASCADE/DRAWINGS/855358-15-CONTAB.DWG 5/11/2026 2:39 PM



INTERNAL COMPONENTS TO BE INSTALLED  
ON SITE BY CONTECH FIELD CONSULTANT.  
PRECASTER TO SHIP ALL INTERNAL  
COMPONENTS WITH STRUCTURE

SEE INSTALLATION NOTE A



ICAST  
5888 / 757440  
LAYOUT 1A  
78.20TS

| COUNT | DESCRIPTION                                        | PART NUMBER | PROVIDED BY | INSTALLED BY |
|-------|----------------------------------------------------|-------------|-------------|--------------|
| 1     | CS-12 CYLINDER INSERT, STD                         | 325-003982  | CONTECH     | CONTRACTOR   |
| 1     | CS-12 CYLINDER TOP                                 | 325-003988  | CONTECH     | CONTRACTOR   |
| 10    | CS-12 ALUMINUM INSTALLATION BRACKETS               | 325-003971  | CONTECH     | PRECASTER    |
| 1     | CS-12 HARDWARE KIT                                 | 325-003983  | CONTECH     | CONTRACTOR   |
| 1     | SEALANT FOR JOINTS                                 |             | PRECASTER   | CONTRACTOR   |
| 2     | 24"Ø X 4" FRAME AND COVER, EJ #41600389, OR EQUIV. | 325-000350  | CONTECH     | CONTRACTOR   |

1. DESIGN LOADING - AASHTO HS-20
2. ALL PRECAST CONCRETE MANUFACTURED PARTS SHALL CONFORM TO ASTM C-478, WITH MINIMUM CONCRETE STRENGTH OF 4000 PSI AT 28 DAYS
3. JOINT SEALANT SHALL CONFORM TO ASTM C-990 OR ASTM C-443
4. GROUND WATER ELEVATION ASSUMED AT OUTLET INVERT
5. MANUFACTURING TOLERANCE = +/- 1/2-INCH
6. SOME HIDDEN LINES MAY BE OMITTED FOR CLARITY

- A. PRECASTER TO SHIP ACCESS CASTINGS WITH STRUCTURE
- B. REFER TO CONTECH ASSEMBLY INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- C. PRECASTER TO INSTALL INTERNAL COMPONENTS PRIOR TO SHIPPING UNLESS INSTRUCTED OTHERWISE BY CONTECH
- D. PIPE OPENINGS SHALL BE STENCILED "INLET" OR "OUTLET" AS APPROPRIATE
- E. APPLYING ALIGNMENT MARKS ON ALL PIECES OF MULTIPLE PIECE ASSEMBLIES IS ENCOURAGED
- F. IF STRUCTURE IS DELIVERED IN MULTIPLE SECTIONS, EACH PIECE SHALL BE LABELED WITH THE CONTECH PROJECT NUMBER, SEQUENCE NUMBER AND SITE DESIGNATION

RIM ELEV. = 1019.05+/-  
TOP OF STRUCTURE = 1017.80  
INLET PIPE 1 INVERT ELEV. = 1009.30  
INLET PIPE 1 DIAMETER AND MATERIAL = 36"Ø RCP  
OUTLET PIPE INVERT ELEV. = 1009.30  
OUTLET PIPE DIAMETER AND MATERIAL = 36"Ø RCP  
OUTSIDE BOTTOM OF STRUCTURE ELEV. = 999.13

APPROXIMATE HEAVIEST PICK = 44500 LBS.  
STRUCTURE IS DELIVERED IN 5 PIECES

TOP SLAB = 25500 LBS.  
RISER 3 = 21000 LBS.  
RISER 2 = 42500 LBS.  
CONTROL RISER = 32500 LBS.  
BASE SECTION = 44500 LBS.



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CS-12 - 855358-015  
FUQUA DEVELOPMENT - STONEDALE  
NICHOLASVILLE, KY  
SITE DESIGNATION: WQU#2

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DATE: 5/11/2026

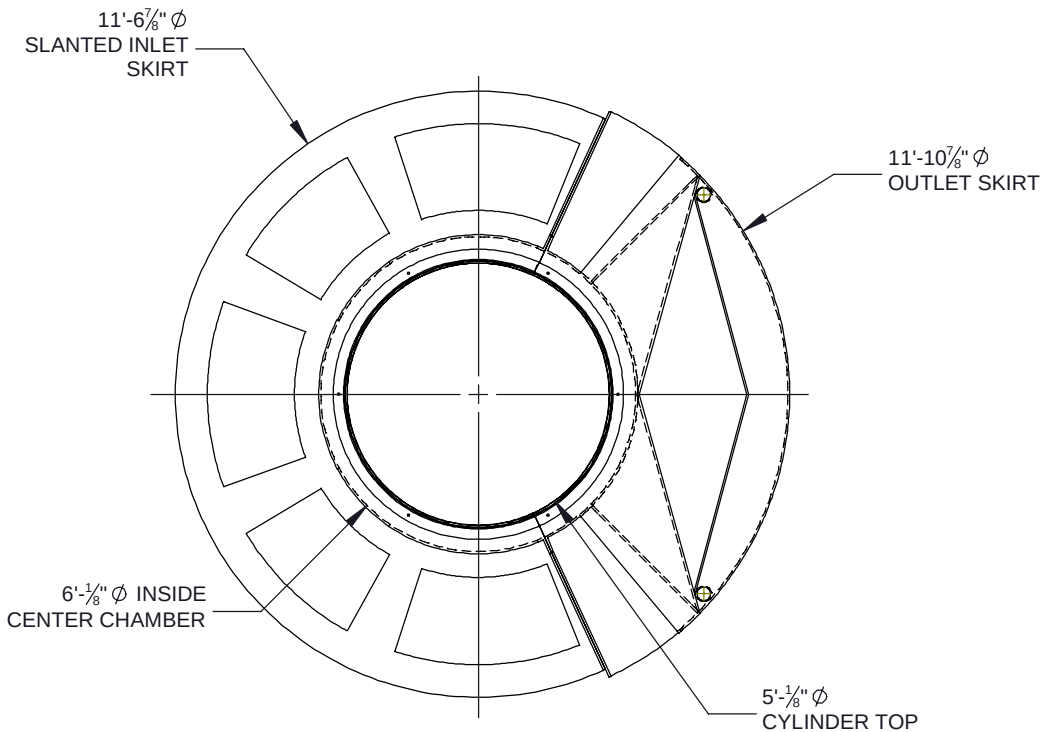
|           |        |
|-----------|--------|
| DESIGNED: | DRAWN: |
| MDB       | JRP    |

|                 |                  |
|-----------------|------------------|
| CHECKED:<br>LJK | APPROVED:<br>MDB |
|-----------------|------------------|

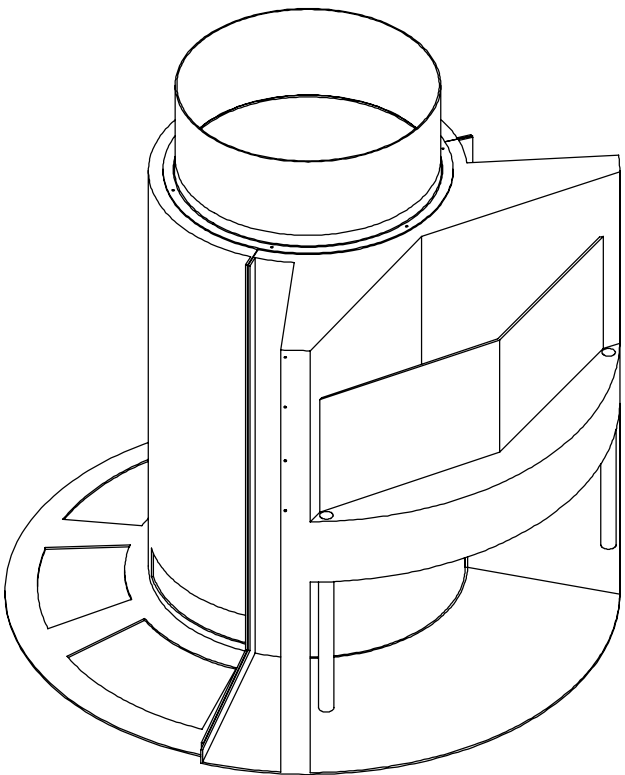
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|--------------|---------------|
| PROJECT No.: | SEQUENCE No.: |
| 855358       | 015           |

SHEET: 1 OF 1

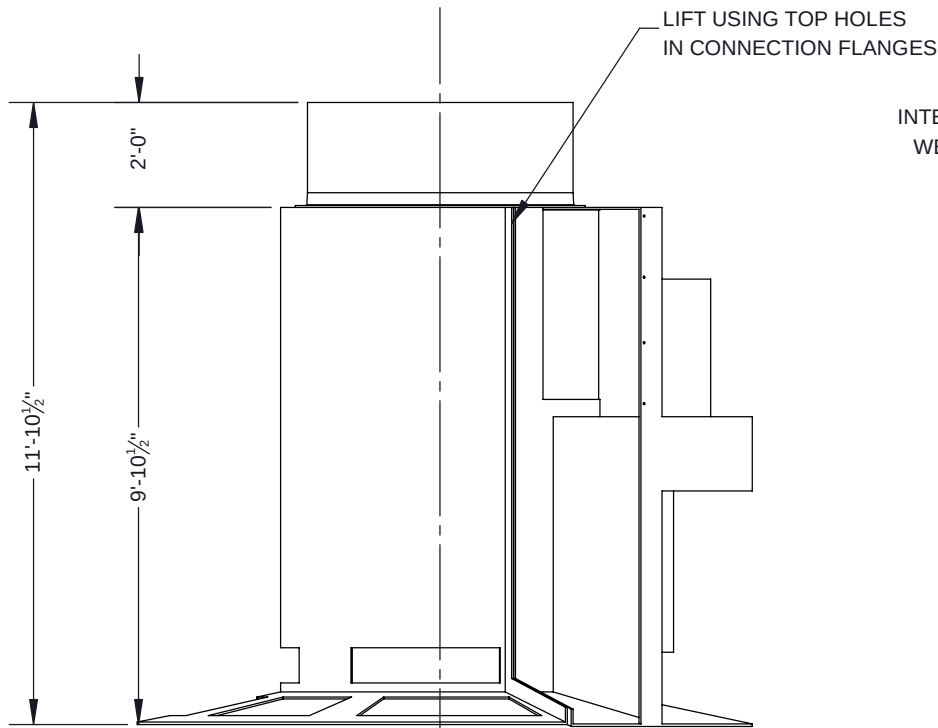




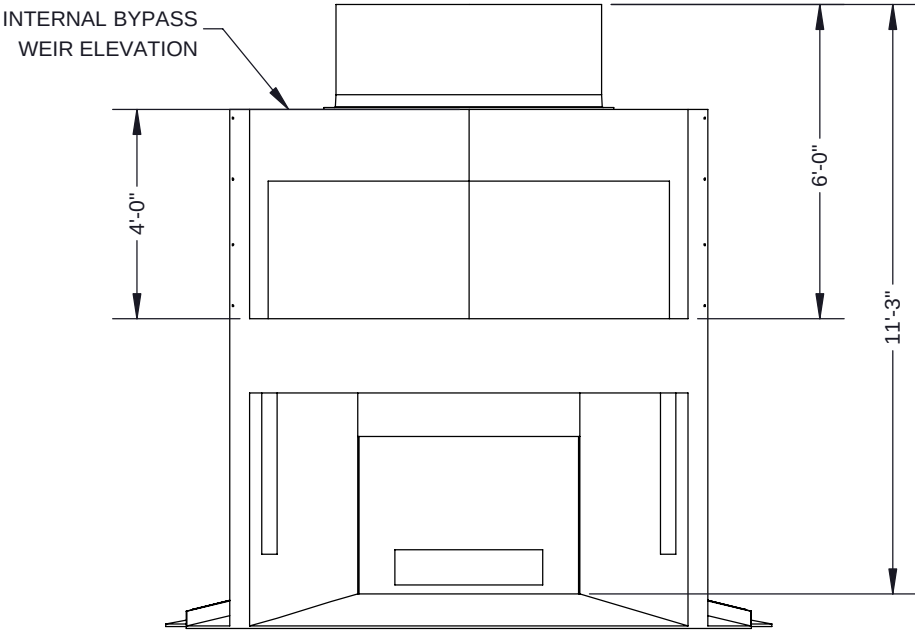
PLAN VIEW



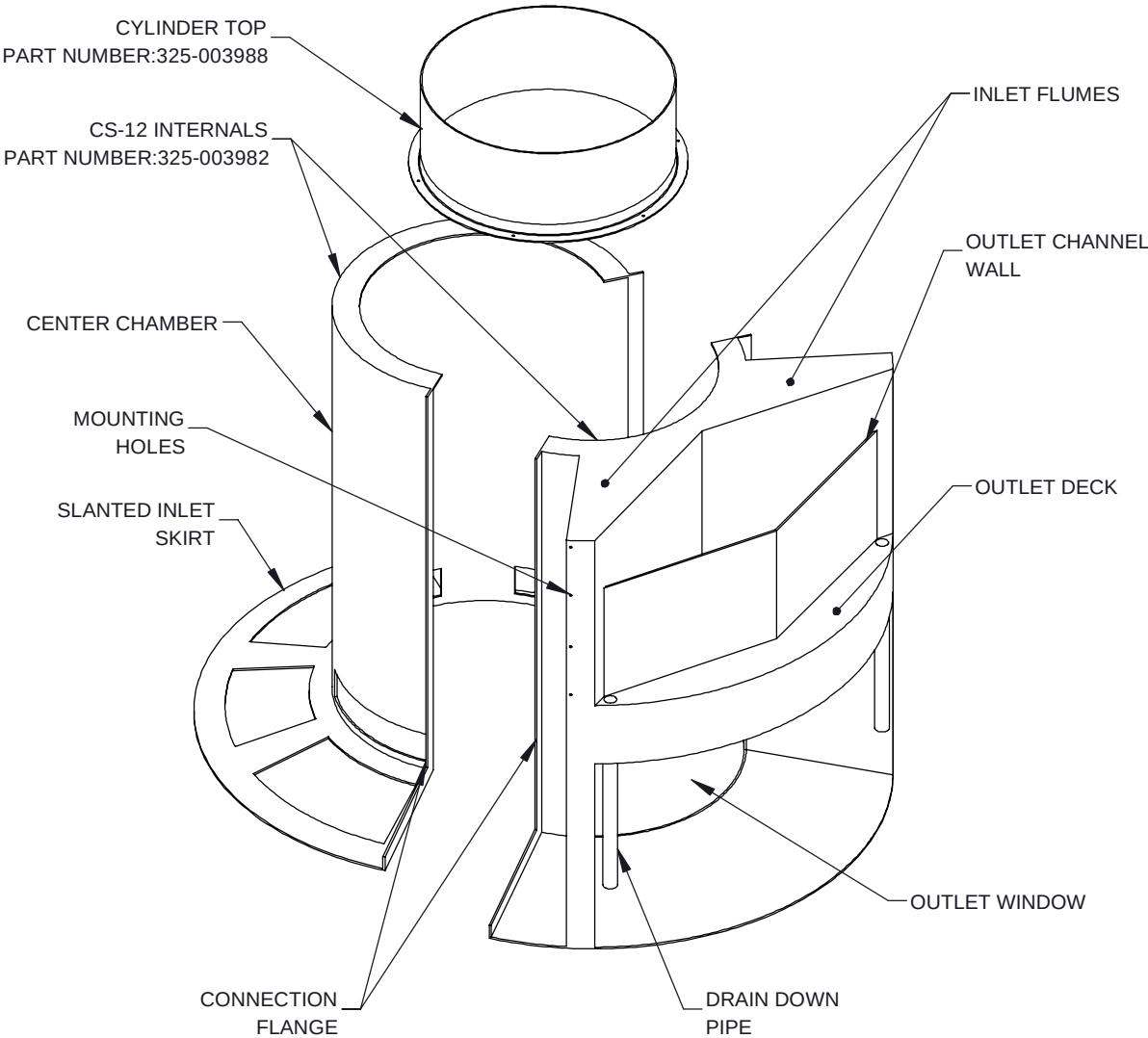
ISOMETRIC VIEW



ELEVATION VIEW



ELEVATION VIEW: OUTLET SIDE



EXPLODED ISOMETRIC VIEW

NOTES:  
1. SEE CASCADE SEPARATOR INSTALLATION GUIDE FOR ADDITIONAL INFORMATION

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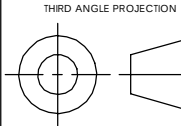
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INTERNALS CS-12 &  
CYLINDER TOP  
CASCADE SEPARATOR

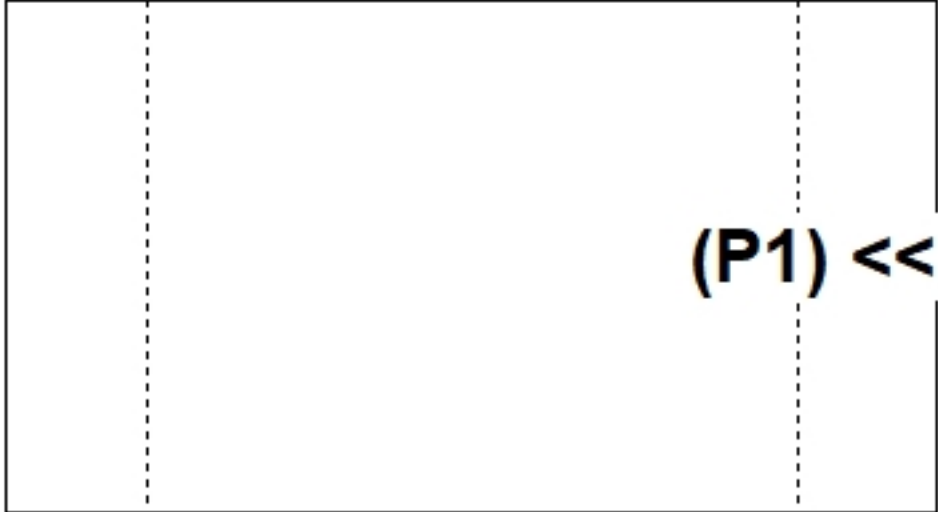
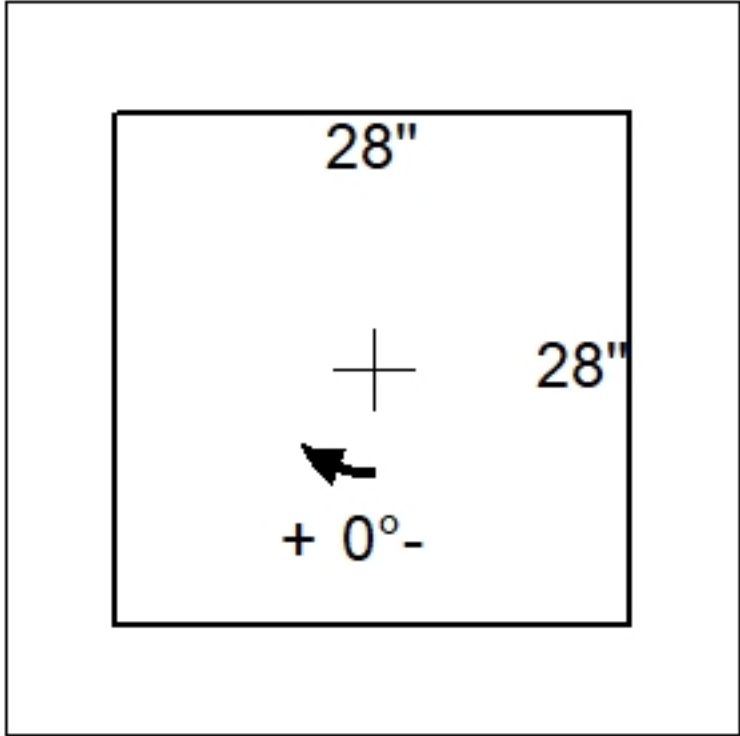
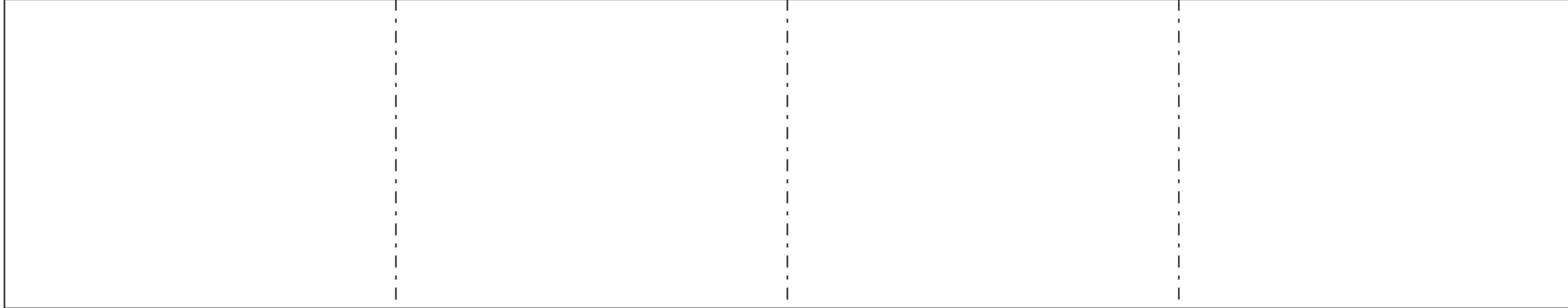


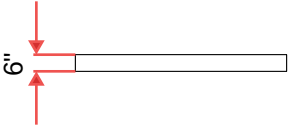
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

TOLERANCES:  
FRACTIONAL  $\pm 1/16$   
ANGLES  $\pm 1$  DEGREE  
TWO PLACE DECIMAL  $\pm 0.06$   
THREE PLACE DECIMAL  $\pm 0.030$

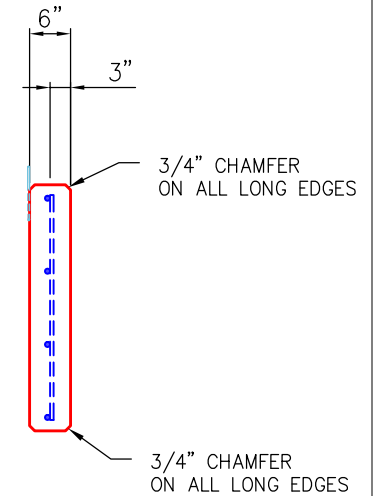
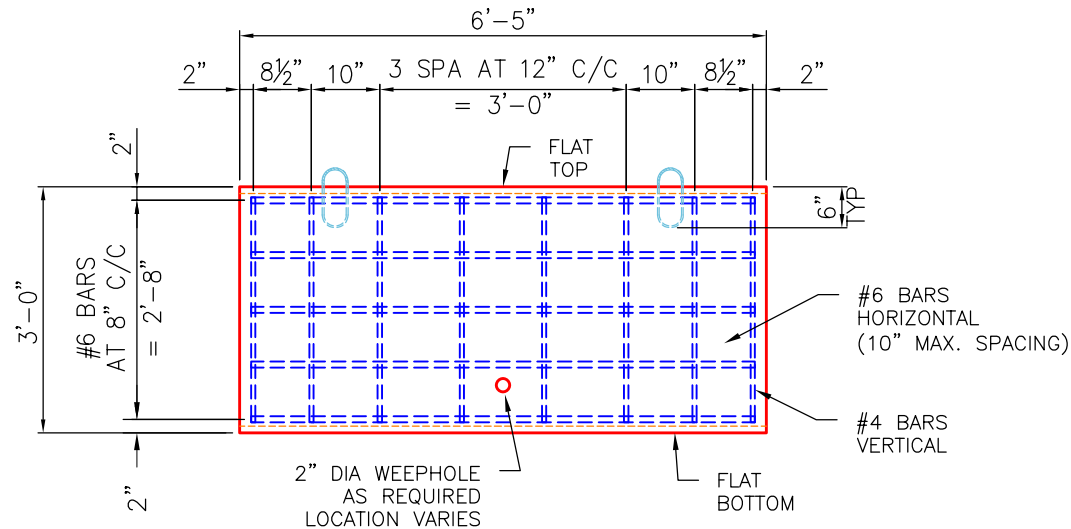
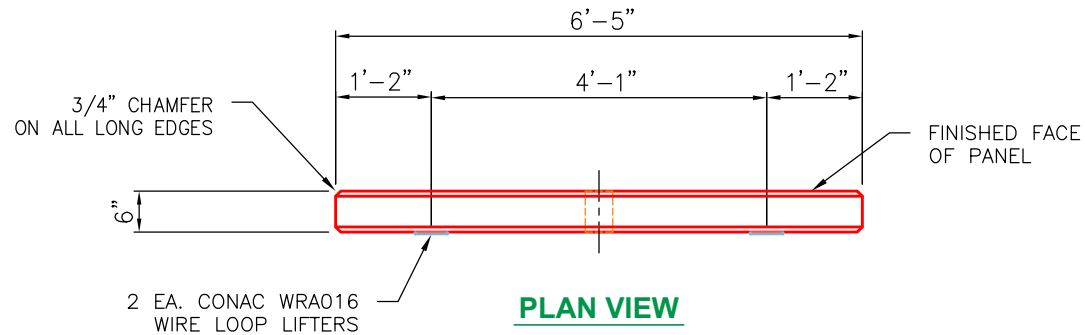
|                                  |                              |           |
|----------------------------------|------------------------------|-----------|
| PART NUMBER: 325-003982 & 003988 |                              |           |
| APPROVED BY:<br>M. BROOKS        | DRAWN BY:<br>J. BELL         |           |
| APPROVED BY DATE:<br>2021.10.21  | DRAWN BY DATE:<br>2021.09.16 | REV:<br>C |
| SCALE:<br>N/A                    | SHEET 1 OF 1                 |           |



|                                                                                                               |      |                                                                                       |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
|---------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|-----------|--------------------------------|-------------------------------------------|----------------------------------------|---------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--|
| Job Name: 25-2284C Parks at Cane Ridge Ph.2B<br>Job Location: Antioch, TN<br>Contractor: Josh King Excavating |      |                                                                                       |           |                                | Plant: Beaver Dam<br>6/22/2026 8:23:28 AM |                                        | Tech: S. Felletter<br>PC: A. Chambers |                                        |                                                                                                              |                                                  |  |
| <b>Structure ID: D5.1</b>                                                                                     |      |                                                                                       |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
| <b>P1</b>                                                                                                     |      | <b>BX2828-06R-VH</b>                                                                  |           |                                | <b>BOX RISER 6inW, Variable Ht F/F</b>    |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
| P1) 28" x 28" - BOX RISER 6inW, Variable Ht F/F - 22"                                                         |      |                                                                                       |           |                                |                                           |                                        | 1506 lb<br>Structure Total: 1506 lb   |                                        | <b>Structure Notes:</b> .<br>1. PER ASTM C913 SPECIFICATIONS.<br>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br>.<br>REINFORCING PER ASTM A615 (GRADE 60).<br>- WALLS (As .31) #5 BARS AT 12" C.C.E.W. |                                                  |  |
| Rim: 1.833' Rim to Invert: 0' Slack: 0" Sump: 0" Step Position:                                               |      |                                                                                       |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
| Position                                                                                                      | Elev | Angle                                                                                 | Ext. (cw) | Pipe                           | Pipe OD                                   | Connector                              | Hole                                  | Horz Size                              | Up ( )                                                                                                                                                                                         | Offset                                           |  |
| Invert 1                                                                                                      |      |                                                                                       |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
| Invert 2                                                                                                      |      |                                                                                       |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
| Invert 3                                                                                                      |      |                                                                                       |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
| Invert 4                                                                                                      |      |                                                                                       |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
| Invert 5                                                                                                      |      |                                                                                       |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
| Invert 6                                                                                                      |      |                                                                                       |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
| Invert 7                                                                                                      |      |                                                                                       |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
| Invert 8                                                                                                      |      |                                                                                       |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
| <b>RIGHT-SIDE UP VIEW (int. dimensions)</b>                                                                   |      |                                                                                       |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
|                            |      |  |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
|                                                                                                               |      | <b>INSIDE WALL DIMENSIONS</b>                                                         |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                |                                                  |  |
| (P1)                                                                                                          |      |   |           |                                |                                           |                                        |                                       |                                        |                                                                                                                                                                                                | EXT<br>22"                                       |  |
|                                                                                                               |      | Coating (Int):<br>Coating (Ext):                                                      |           | Seam Up: Flat<br>Seam Dn: Flat |                                           | Wall Thickness: 6"<br>Floor Height: 0" |                                       | Height (Int): 22"<br>Height (Ext): 22" |                                                                                                                                                                                                | Weight (Net): 1506 lb<br>Volume (Net): 0.38cu.yd |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------------------------------|-------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 26-1333 - Mitchell Hill Road Project<br>Job Location: Louisville, KY 40118<br>Contractor: Hall Contracting of Kentucky Inc                                                                                                                                                                                                                                                                                                                                                                                  |      |       |                                |                         | Plant: 100<br>6/16/2026 1:22:04 PM     |                                                                                                   | Tech: J. Horsley<br>PC: J. Jarvis      |                                                                                                                                                                                                                                                                                                                                               |  |        |  |
| Structure ID: WALL P6-P7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| P1 CUSTOM WALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |       |                                | WALL PANEL 6" THICK F/F |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| <p>P4) 77" x 6" - WALL PANEL 6" THICK F/F - 2.00' HT x 6.42' LONG<br/>P3) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG<br/>P2) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG<br/>P1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG<br/>1) Hole - 2</p>                                                                                                                                                                                                                        |      |       |                                |                         |                                        | <p>932 lb<br/>1398 lb<br/>1398 lb<br/>1398 lb<br/>-----<br/>0 lb<br/>Structure Total: 5125 lb</p> |                                        | <p>Structure Notes: .<br/>1. PER ASTM C913 SPECIFICATIONS.<br/>2. CONCRETER = 4,000 PSI AT 28" DAYS.<br/>3. SMOOTH FORM FINISH ON THE FRONT SURFACE.<br/>4. 3/4" CHAMFER ON ALL LONG EDGES.</p> <p>REINFORCING PER ASTM A615 (GRADE 60).<br/>-VERTICAL BARS = #4 BARS AT 12" C/C<br/>-HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)</p> |                                                                                    |        |  |
| Rim: 699' Rim to Invert: 6.5' Slack: 0" Sump: 54" Step Position:                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Elev | Angle | Ext. (cw)                      | Pipe                    | Pipe OD                                | Connector                                                                                         | Hole                                   | Horz Size                                                                                                                                                                                                                                                                                                                                     | Up ( )                                                                             | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| <div>RIGHT-SIDE UP VIEW (int. dimensions)</div> <div>UPSIDE-DOWN VIEW (int. dimenions)</div> <div><div><div>(P4)</div><div>(P3)</div><div>(P2)</div><div>(P1) &lt;&lt;</div></div><div></div><div><div>Note:<br/>See attached typical drawing<br/>for reinforcing and lifting details.</div></div></div> <div><div>INSIDE WALL DIMENSIONS</div><div><div>(P1)</div><div><div>6'-5"<br/>(77")</div><div>36"</div></div></div></div> |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Coating (Int):<br>Coating (Ext):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |       | Seam Up: Flat<br>Seam Dn: Flat |                         | Wall Thickness: 0"<br>Floor Height: 0" |                                                                                                   | Height (Int): 36"<br>Height (Ext): 36" |                                                                                                                                                                                                                                                                                                                                               | Weight (Net): 1398 lb<br>Volume (Net): 0.36cu.yd                                   |        |  |





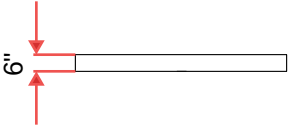
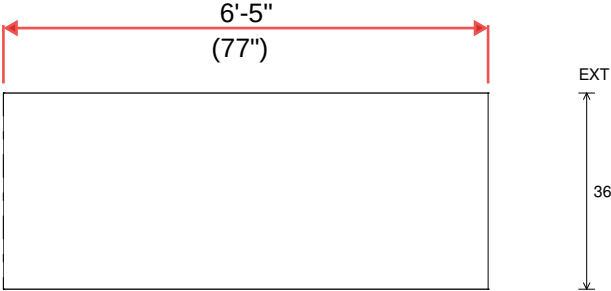
**GENERAL NOTES:**

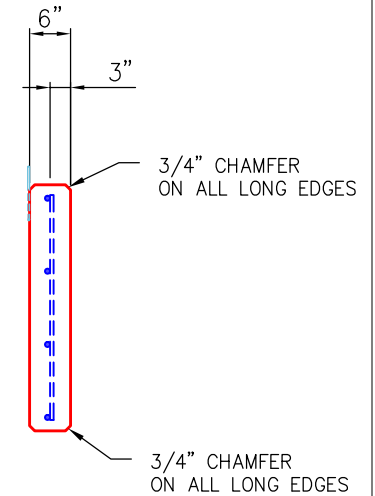
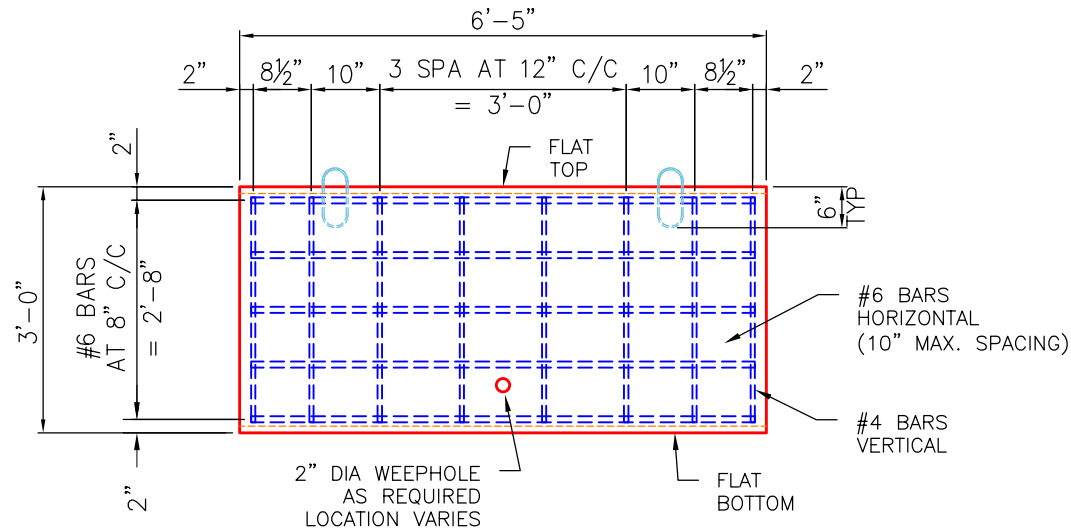
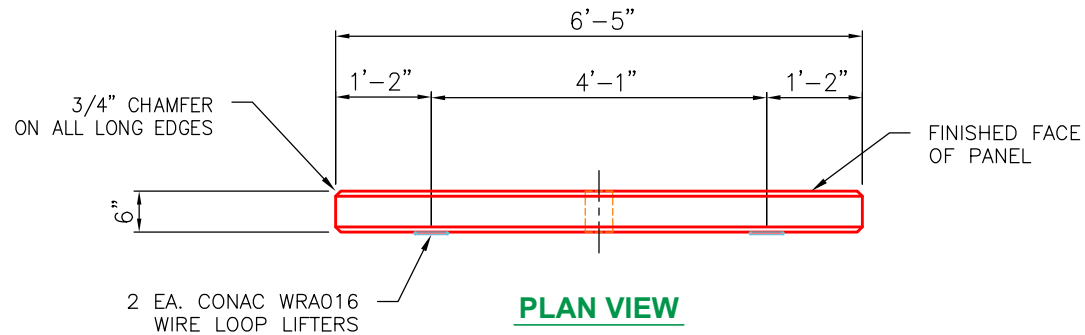
1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 1,413 LBS
6. 68 REQUIRED.

**SIDE VIEW**

**END VIEW**

| REVISION INFORMATION                                                                     |       |  |  | SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK. |                       |
|------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|--|------------------------------------------------------|-----------------------|
| REV.  | DATE: | NO REVISIONS TO DATE                                                                  |  | CUSTOMER: HALL CONTRACTING OF KY INC.                |                       |
|                                                                                          |       |                                                                                       |  | PROJECT: MITCHELL HILL ROAD PROJECT                  |                       |
|                                                                                          |       |                                                                                       |  | STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 36" HT)   |                       |
|                                                                                          |       |                                                                                       |  | SALES ORDER NO: 26-1333                              |                       |
|                                                                                          |       |                                                                                       |  | CHECK: B. SMITH                                      | DRAWN BY: J. HORSLEY  |
|                                                                                          |       |                                                                                       |  | DATE: 04/20/26                                       | SCALE: NTS PG. 1 of 1 |

|                                                                                                                                                                                                                                                                                                                        |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------------------------------|-------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 26-1333 - Mitchell Hill Road Project<br>Job Location: Louisville, KY 40118<br>Contractor: Hall Contracting of Kentucky Inc                                                                                                                                                                                   |      |       |                                |                         | Plant: 100<br>6/16/2026 1:22:03 PM     |                                                                                                   | Tech: J. Horsley<br>PC: J. Jarvis      |                                                                                                                                                                                                                                                                                                                                               |  |        |  |
| Structure ID: WALL P5-P6                                                                                                                                                                                                                                                                                               |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| P1 CUSTOM WALL                                                                                                                                                                                                                                                                                                         |      |       |                                | WALL PANEL 6" THICK F/F |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| <p>P4) 77" x 6" - WALL PANEL 6" THICK F/F - 1.00' HT x 6.42' LONG<br/>P3) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG<br/>P2) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG<br/>P1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG<br/>1) Hole - 2</p>                         |      |       |                                |                         |                                        | <p>466 lb<br/>1398 lb<br/>1398 lb<br/>1398 lb<br/>-----<br/>0 lb<br/>Structure Total: 4659 lb</p> |                                        | <p>Structure Notes: .<br/>1. PER ASTM C913 SPECIFICATIONS.<br/>2. CONCRETER = 4,000 PSI AT 28" DAYS.<br/>3. SMOOTH FORM FINISH ON THE FRONT SURFACE.<br/>4. 3/4" CHAMFER ON ALL LONG EDGES.</p> <p>REINFORCING PER ASTM A615 (GRADE 60).<br/>-VERTICAL BARS = #4 BARS AT 12" C/C<br/>-HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)</p> |                                                                                    |        |  |
| Rim: 700' Rim to Invert: 6.25' Slack: 0" Sump: 45" Step Position:                                                                                                                                                                                                                                                      |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                                                               | Elev | Angle | Ext. (cw)                      | Pipe                    | Pipe OD                                | Connector                                                                                         | Hole                                   | Horz Size                                                                                                                                                                                                                                                                                                                                     | Up ( )                                                                             | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                                                               |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 2                                                                                                                                                                                                                                                                                                               |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 3                                                                                                                                                                                                                                                                                                               |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 4                                                                                                                                                                                                                                                                                                               |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                                                               |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                                                               |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                                                               |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                                                               |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| <div><div>RIGHT-SIDE UP VIEW (int. dimensions)</div><div></div></div> <div><div>UPSIDE-DOWN VIEW (int. dimensions)</div><div><div>Note:<br/>See attached typical drawing<br/>for reinforcing and lifting details.</div></div></div> |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| <div><div><div>(P4)</div><div>(P3)</div><div>(P2)</div><div>(P1) &lt;&lt;</div></div><div><div>INSIDE WALL DIMENSIONS</div><div></div></div></div>                                                                                 |      |       |                                |                         |                                        |                                                                                                   |                                        |                                                                                                                                                                                                                                                                                                                                               |                                                                                    |        |  |
| Coating (Int):<br>Coating (Ext):                                                                                                                                                                                                                                                                                       |      |       | Seam Up: Flat<br>Seam Dn: Flat |                         | Wall Thickness: 0"<br>Floor Height: 0" |                                                                                                   | Height (Int): 36"<br>Height (Ext): 36" |                                                                                                                                                                                                                                                                                                                                               | Weight (Net): 1398 lb<br>Volume (Net): 0.36cu.yd                                   |        |  |



**GENERAL NOTES:**

1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 1,413 LBS
6. 68 REQUIRED.

**SIDE VIEW**

**END VIEW**

| REVISION INFORMATION                                                                     |       |  |  | SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK. |                       |
|------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|--|------------------------------------------------------|-----------------------|
| REV.  | DATE: | NO REVISIONS TO DATE                                                                  |  | CUSTOMER: HALL CONTRACTING OF KY INC.                |                       |
|                                                                                          |       |                                                                                       |  | PROJECT: MITCHELL HILL ROAD PROJECT                  |                       |
|                                                                                          |       |                                                                                       |  | STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 36" HT)   |                       |
|                                                                                          |       |                                                                                       |  | SALES ORDER NO: 26-1333                              |                       |
|                                                                                          |       |                                                                                       |  | CHECK: B. SMITH                                      | DRAWN BY: J. HORSLEY  |
|                                                                                          |       |                                                                                       |  | DATE: 04/20/26                                       | SCALE: NTS PG. 1 of 1 |



Job Name: 26-1333 - Mitchell Hill Road Project

Job Location: Louisville, KY 40118

Contractor: Hall Contracting of Kentucky Inc

Plant: 100

6/16/2026 1:23:20 PM

Tech: J. Horsley

PC: J. Jarvis



Structure ID: WALL P5-P6

P2 CUSTOM WALL

WALL PANEL 6" THICK F/F

P4) 77" x 6" - WALL PANEL 6" THICK F/F - 1.00' HT x 6.42' LONG

P3) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG

P2) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG

P1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG

1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG

Hole - 2

466 lb

1398 lb

1398 lb

1398 lb

0 lb

-----

Structure Total: 4659 lb

Structure Notes: .

1. PER ASTM C913 SPECIFICATIONS.

2. CONCRETER = 4,000 PSI AT 28" DAYS.

3. SMOOTH FORM FINISH ON THE FRONT SURFACE.

4. 3/4" CHAMFER ON ALL LONG EDGES.

REINFORCING PER ASTM A615 (GRADE 60).

-VERTICAL BARS = #4 BARS AT 12" C/C

-HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)

Rim: 700'

Rim to Invert: 6.25'

Slack: 0"

Sump: 45"

Step Position:

| Position | Elev    | Angle | Ext. (cw) | Pipe         | Pipe OD | Connector | Hole | Horz Size | Up ( ) | Offset |
|----------|---------|-------|-----------|--------------|---------|-----------|------|-----------|--------|--------|
| Invert 1 | 693.75' | 0°    | 38.5"     | 2" WEEP HOLE | 2"      | Hole 2    | 2"   | 2"        | 9"     | 0"     |
| Invert 2 |         |       |           |              |         |           |      |           |        |        |
| Invert 3 |         |       |           |              |         |           |      |           |        |        |
| Invert 4 |         |       |           |              |         |           |      |           |        |        |
| Invert 5 |         |       |           |              |         |           |      |           |        |        |
| Invert 6 |         |       |           |              |         |           |      |           |        |        |
| Invert 7 |         |       |           |              |         |           |      |           |        |        |
| Invert 8 |         |       |           |              |         |           |      |           |        |        |

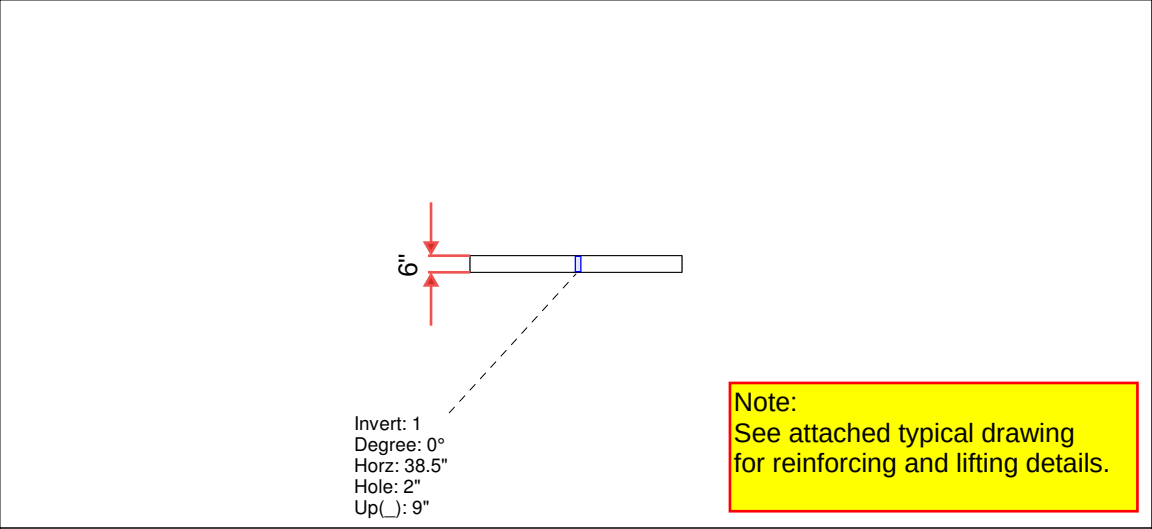
RIGHT-SIDE UP VIEW (int. dimensions)

(P4)

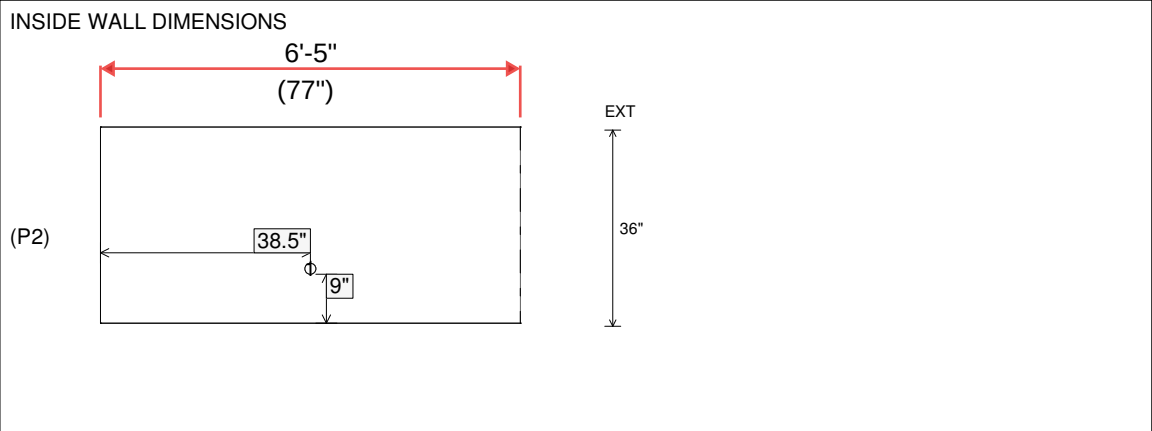
(P3)

(P2) <<

(P1)



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: Flat

Wall Thickness: 0"

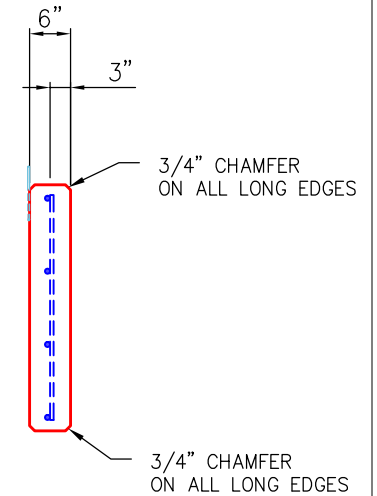
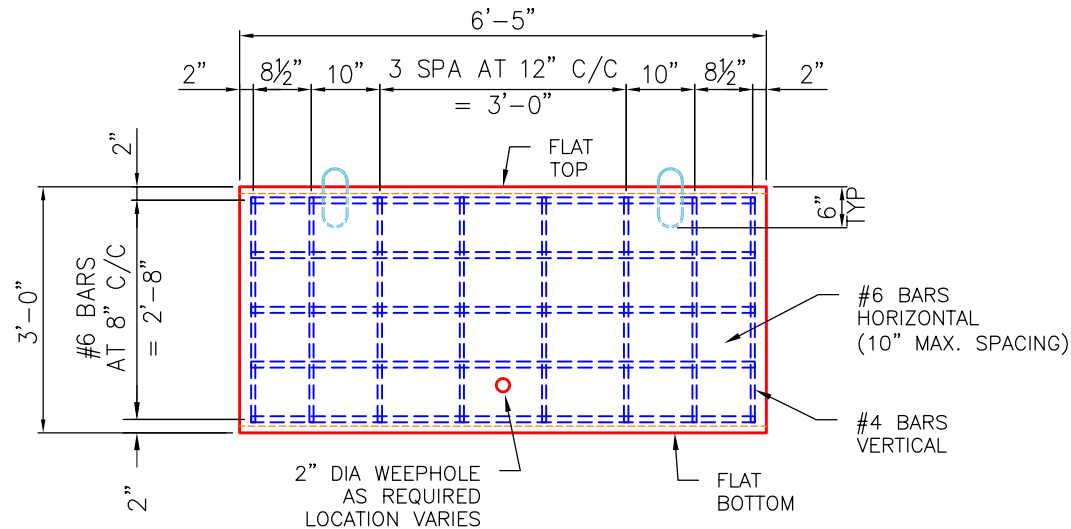
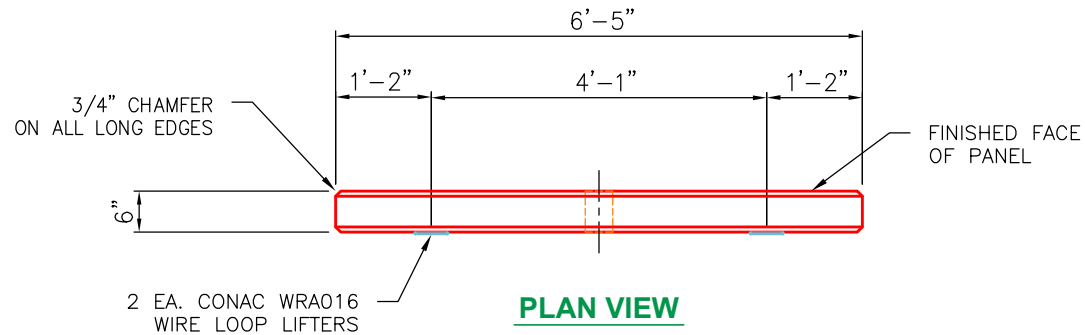
Floor Height: 0"

Height (Int): 36"

Height (Ext): 36"

Weight (Net): 1398 lb

Volume (Net): 0.36cu.yd



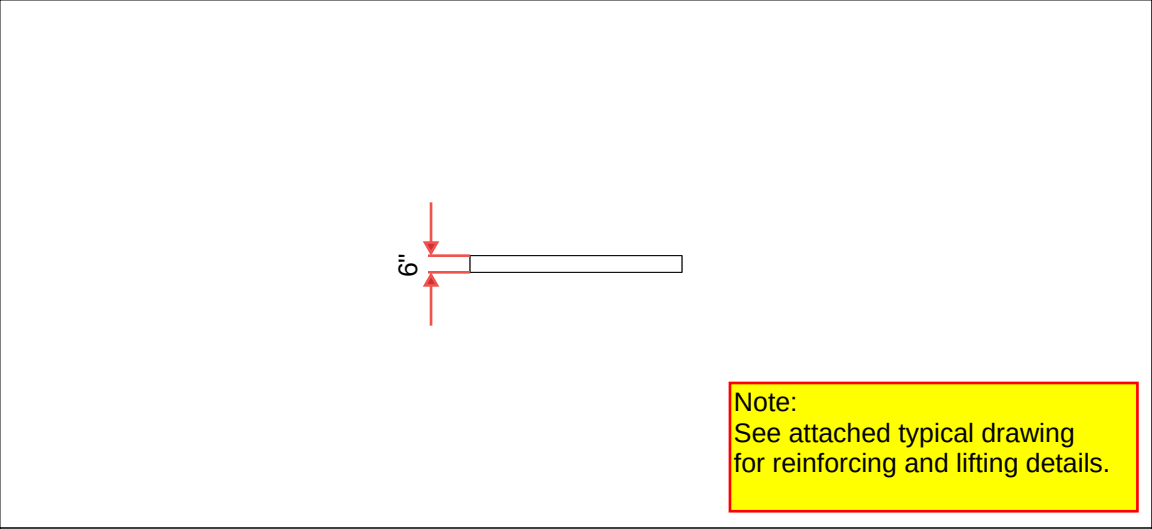
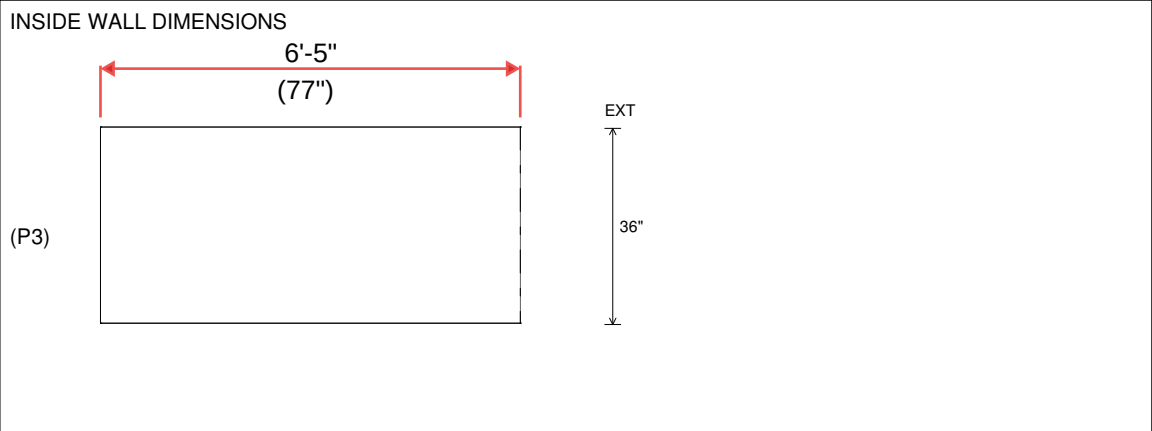
**GENERAL NOTES:**

1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 1,413 LBS
6. 68 REQUIRED.

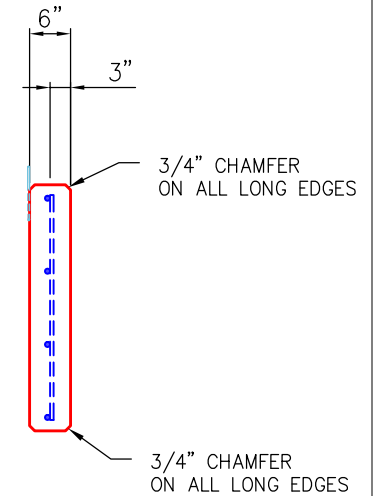
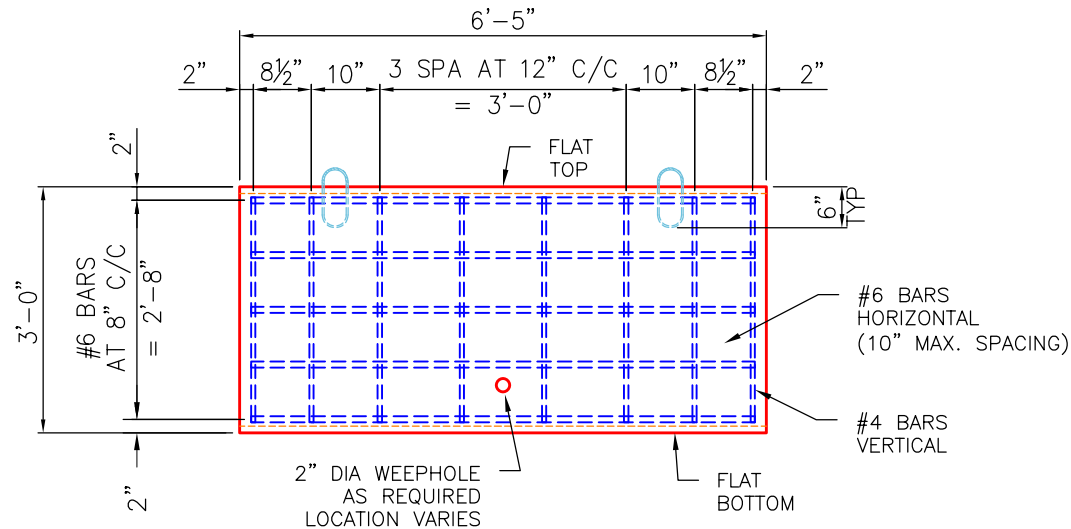
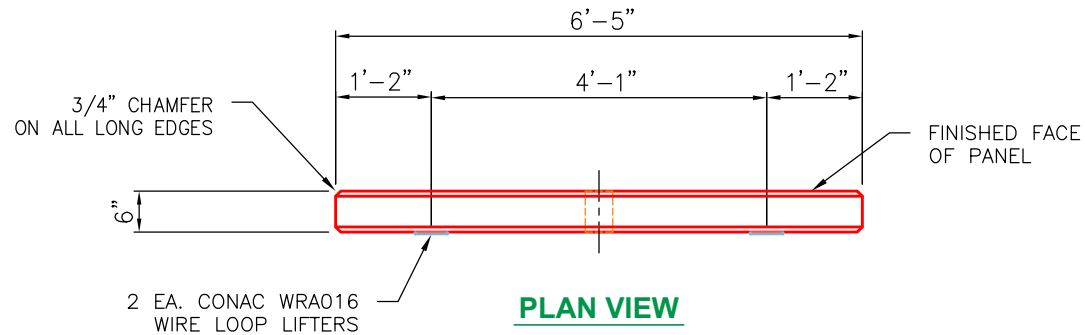
**SIDE VIEW**

**END VIEW**

| REVISION INFORMATION                                                                     |       |  |  | SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK. |                       |
|------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|--|------------------------------------------------------|-----------------------|
| REV.  | DATE: | NO REVISIONS TO DATE                                                                  |  | CUSTOMER: HALL CONTRACTING OF KY INC.                |                       |
|                                                                                          |       |                                                                                       |  | PROJECT: MITCHELL HILL ROAD PROJECT                  |                       |
|                                                                                          |       |                                                                                       |  | STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 36" HT)   |                       |
|                                                                                          |       |                                                                                       |  | SALES ORDER NO: 26-1333                              |                       |
|                                                                                          |       |                                                                                       |  | CHECK: B. SMITH                                      | DRAWN BY: J. HORSLEY  |
|                                                                                          |       |                                                                                       |  | DATE: 04/20/26                                       | SCALE: NTS PG. 1 of 1 |

|                                                                                                                                                                                                                                                                                                                                                                                                   |      |       |           |                                |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-----------|--------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------|--|
| Job Name: 26-1333 - Mitchell Hill Road Project<br>Job Location: Louisville, KY 40118<br>Contractor: Hall Contracting of Kentucky Inc                                                                                                                                                                                                                                                              |      |       |           |                                | Plant: 100<br>6/16/2026 1:23:20 PM |                                                                                                       | Tech: J. Horsley<br>PC: J. Jarvis |                                                                                                                                                                                                                                                                                                                                                     |  |                                                  |  |
| <b>Structure ID: WALL P5-P6</b>                                                                                                                                                                                                                                                                                                                                                                   |      |       |           |                                |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
| <b>P3 CUSTOM WALL</b>                                                                                                                                                                                                                                                                                                                                                                             |      |       |           | <b>WALL PANEL 6" THICK F/F</b> |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
| <div>P4) 77" x 6" - WALL PANEL 6" THICK F/F - 1.00' HT x 6.42' LONG<br/>P3) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG<br/>P2) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG<br/>P1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG<br/>1) Hole - 2</div>                                                                                                |      |       |           |                                |                                    | <div>466 lb<br/>1398 lb<br/>1398 lb<br/>1398 lb<br/>0 lb<br/>-----<br/>Structure Total: 4659 lb</div> |                                   | <div>Structure Notes: .<br/>1. PER ASTM C913 SPECIFICATIONS.<br/>2. CONCRETER = 4,000 PSI AT 28" DAYS.<br/>3. SMOOTH FORM FINISH ON THE FRONT SURFACE.<br/>4. 3/4" CHAMFER ON ALL LONG EDGES.<br/><br/>REINFORCING PER ASTM A615 (GRADE 60).<br/>-VERTICAL BARS = #4 BARS AT 12" C/C<br/>-HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)</div> |                                                                                    |                                                  |  |
| Rim: 700'      Rim to Invert: 6.25'      Slack: 0"      Sump: 45"      Step Position:                                                                                                                                                                                                                                                                                                             |      |       |           |                                |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
| Position                                                                                                                                                                                                                                                                                                                                                                                          | Elev | Angle | Ext. (cw) | Pipe                           | Pipe OD                            | Connector                                                                                             | Hole                              | Horz Size                                                                                                                                                                                                                                                                                                                                           | Up ( )                                                                             | Offset                                           |  |
| Invert 1                                                                                                                                                                                                                                                                                                                                                                                          |      |       |           |                                |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
| Invert 2                                                                                                                                                                                                                                                                                                                                                                                          |      |       |           |                                |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
| Invert 3                                                                                                                                                                                                                                                                                                                                                                                          |      |       |           |                                |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
| Invert 4                                                                                                                                                                                                                                                                                                                                                                                          |      |       |           |                                |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
| Invert 5                                                                                                                                                                                                                                                                                                                                                                                          |      |       |           |                                |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
| Invert 6                                                                                                                                                                                                                                                                                                                                                                                          |      |       |           |                                |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
| Invert 7                                                                                                                                                                                                                                                                                                                                                                                          |      |       |           |                                |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
| Invert 8                                                                                                                                                                                                                                                                                                                                                                                          |      |       |           |                                |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
| <div>RIGHT-SIDE UP VIEW (int. dimensions)</div> <div><div><div><div>(P4)</div><div>(P3) &lt;&lt;</div><div>(P2)</div><div>(P1)</div></div><div></div></div></div> <div><div>INSIDE WALL DIMENSIONS</div><div></div></div> |      |       |           |                                |                                    |                                                                                                       |                                   |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |                                                  |  |
| Coating (Int):<br>Coating (Ext):                                                                                                                                                                                                                                                                                                                                                                  |      |       |           | Seam Up: Flat<br>Seam Dn: Flat |                                    | Wall Thickness: 0"<br>Floor Height: 0"                                                                |                                   | Height (Int): 36"<br>Height (Ext): 36"                                                                                                                                                                                                                                                                                                              |                                                                                    | Weight (Net): 1398 lb<br>Volume (Net): 0.36cu.yd |  |





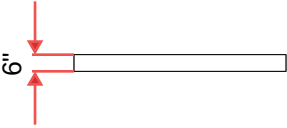
**GENERAL NOTES:**

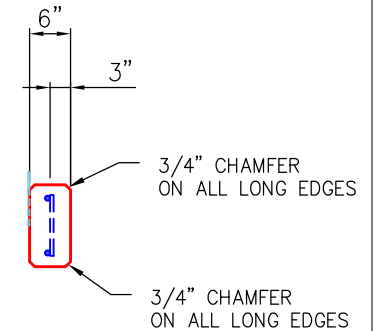
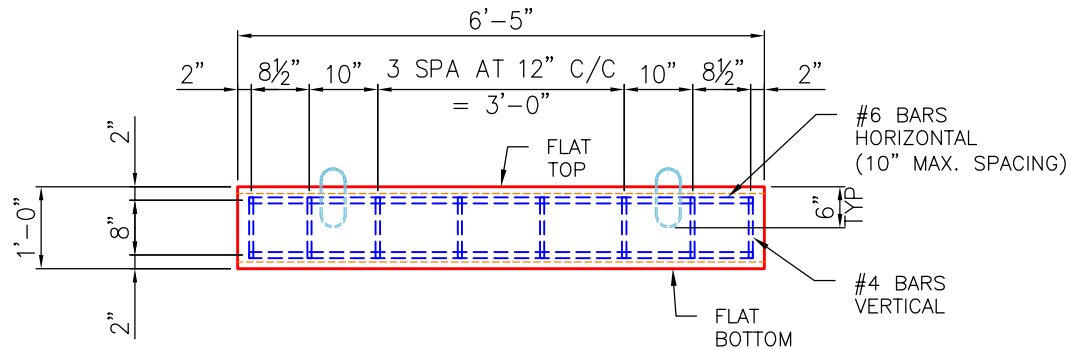
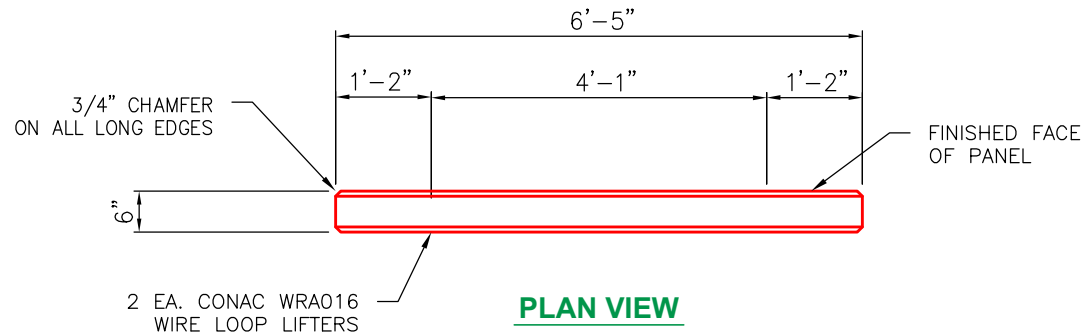
1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 1,413 LBS
6. 68 REQUIRED.

**SIDE VIEW**

**END VIEW**

| REVISION INFORMATION                                                                     |       |  |  | SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK. |                       |
|------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|--|------------------------------------------------------|-----------------------|
| REV.  | DATE: | NO REVISIONS TO DATE                                                                  |  | CUSTOMER: HALL CONTRACTING OF KY INC.                |                       |
|                                                                                          |       |                                                                                       |  | PROJECT: MITCHELL HILL ROAD PROJECT                  |                       |
|                                                                                          |       |                                                                                       |  | STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 36" HT)   |                       |
|                                                                                          |       |                                                                                       |  | SALES ORDER NO: 26-1333                              |                       |
|                                                                                          |       |                                                                                       |  | CHECK: B. SMITH                                      | DRAWN BY: J. HORSLEY  |
|                                                                                          |       |                                                                                       |  | DATE: 04/20/26                                       | SCALE: NTS PG. 1 of 1 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |       |                                |                                |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------------------------------|--------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 26-1333 - Mitchell Hill Road Project<br>Job Location: Louisville, KY 40118<br>Contractor: Hall Contracting of Kentucky Inc                                                                                                                                                                                                                                                                                                                                              |      |       |                                |                                | Plant: 100<br>6/16/2026 1:23:21 PM     |                                                                                                       | Tech: J. Horsley<br>PC: J. Jarvis      |                                                                                                                                                                                                                                                                                                                                                     |  |        |  |
| <b>Structure ID: WALL P5-P6</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |       |                                |                                |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
| <b>P4 CUSTOM WALL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |       |                                | <b>WALL PANEL 6" THICK F/F</b> |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
| <div>P4) 77" x 6" - WALL PANEL 6" THICK F/F - 1.00' HT x 6.42' LONG<br/>P3) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG<br/>P2) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG<br/>P1) 77" x 6" - WALL PANEL 6" THICK F/F - 3.00' HT x 6.42' LONG<br/>1) Hole - 2</div>                                                                                                                                                                                |      |       |                                |                                |                                        | <div>466 lb<br/>1398 lb<br/>1398 lb<br/>1398 lb<br/>0 lb<br/>-----<br/>Structure Total: 4659 lb</div> |                                        | <div>Structure Notes: .<br/>1. PER ASTM C913 SPECIFICATIONS.<br/>2. CONCRETER = 4,000 PSI AT 28" DAYS.<br/>3. SMOOTH FORM FINISH ON THE FRONT SURFACE.<br/>4. 3/4" CHAMFER ON ALL LONG EDGES.<br/><br/>REINFORCING PER ASTM A615 (GRADE 60).<br/>-VERTICAL BARS = #4 BARS AT 12" C/C<br/>-HORIZONTAL BARS = #6 BARS EQUALLY SPACED (10" MAX.)</div> |                                                                                    |        |  |
| Rim: 700'      Rim to Invert: 6.25'      Slack: 0"      Sump: 45"      Step Position:                                                                                                                                                                                                                                                                                                                                                                                             |      |       |                                |                                |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Elev | Angle | Ext. (cw)                      | Pipe                           | Pipe OD                                | Connector                                                                                             | Hole                                   | Horz Size                                                                                                                                                                                                                                                                                                                                           | Up ( )                                                                             | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |                                |                                |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
| Invert 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |                                |                                |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
| Invert 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |                                |                                |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
| Invert 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |                                |                                |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |                                |                                |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |                                |                                |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |                                |                                |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |                                |                                |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
| <div>RIGHT-SIDE UP VIEW (int. dimensions)</div> <div><div><div>(P4) &lt;&lt;</div><div>(P3)</div><div>(P2)</div><div>(P1)</div></div><div></div><div><div>Note:<br/>See attached typical drawing<br/>for reinforcing and lifting details.</div></div></div> <div><div>INSIDE WALL DIMENSIONS</div><div><div>(P4)</div><div><div>6'-5"<br/>(77")</div><div>EXT<br/>12"</div></div></div></div> |      |       |                                |                                |                                        |                                                                                                       |                                        |                                                                                                                                                                                                                                                                                                                                                     |                                                                                    |        |  |
| Coating (Int):<br>Coating (Ext):                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |       | Seam Up: Flat<br>Seam Dn: Flat |                                | Wall Thickness: 0"<br>Floor Height: 0" |                                                                                                       | Height (Int): 12"<br>Height (Ext): 12" |                                                                                                                                                                                                                                                                                                                                                     | Weight (Net): 466 lb<br>Volume (Net): 0.12cu.yd                                    |        |  |



**GENERAL NOTES:**

1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 472 LBS
6. 1' REQUIRED.

| REVISION INFORMATION                                                                     |       |  |  | SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK. |                       |
|------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|--|------------------------------------------------------|-----------------------|
| REV.  | DATE: | NO REVISIONS TO DATE                                                                  |  | CUSTOMER: HALL CONTRACTING OF KY INC.                |                       |
|                                                                                          |       |                                                                                       |  | PROJECT: MITCHELL HILL ROAD PROJECT                  |                       |
|                                                                                          |       |                                                                                       |  | STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 12" HT)   |                       |
|                                                                                          |       |                                                                                       |  | SALES ORDER NO: 26-1333                              |                       |
|                                                                                          |       |                                                                                       |  | CHECK: B. SMITH                                      | DRAWN BY: J. HORSLEY  |
|                                                                                          |       |                                                                                       |  | DATE: 04/20/26                                       | SCALE: NTS PG. 1 of 1 |



**Job Number:**

25-2952

**Job Name:**

KYTC Jefferson Co Call 106  
(251315)

**Structure:**

53

**Note:**

HOE KY-210 Frame Supplied By  
Others To Be Cast Into Flat Lid



**Job Number:**

25-2952

**Job Name:**

KYTC Jefferson Co Call 106  
(251315)

**Structure:**

55

**Note:**

HOE KY-210 Frame Supplied By  
Others To Be Cast Into Flat Lid

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 1:31:47 PM

Tech: J. Horsley  
PC: C. Goff



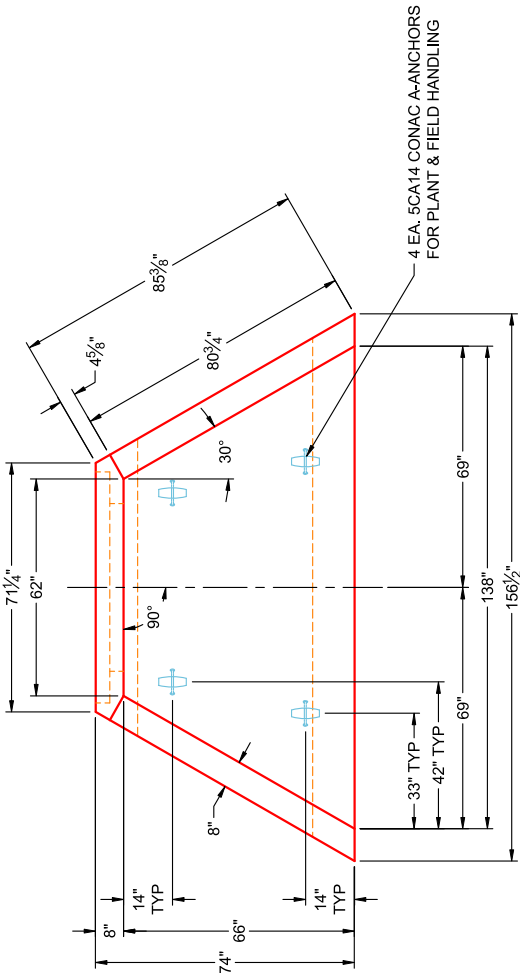
Structure ID: St. 45+00 HW (1)

P1 HWCUSTOM

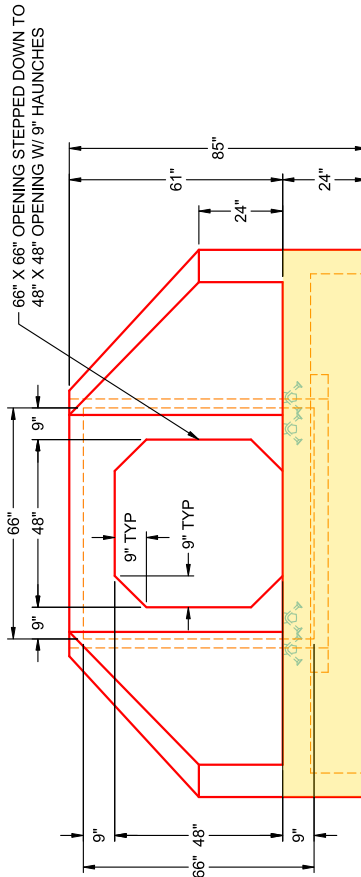
48" x 48" - BOX CULVERT HEADWALL F/F

GENERAL NOTES:

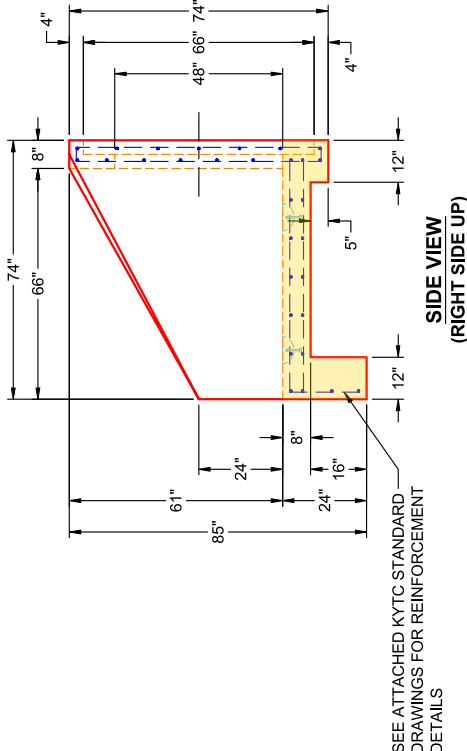
- DRAWING TO BE USED IN CONJUNCTION WITH KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1100-02, RDH-1200-02, & RDH-1300-03
- REINFORCEMENT PER ATTACHED KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1200-02, & RDH-1300-03 - 2" MIN. REBAR CLEARANCE (TYP)
- CONCRETE: 5,000 PSI AT 28 DAYS
- TOTAL WEIGHT: 13,810 LBS  
- FIRST POUR: 8,262 LBS  
- SECOND POUR: 5,548 LBS



PLAN VIEW  
(RIGHT SIDE UP)



FRONT VIEW  
(RIGHT SIDE UP)



SIDE VIEW  
(RIGHT SIDE UP)

PRODUCTION WORK ORDER



QUALITY CONTROL CHECKLIST

- ☐ ALL DIMENSIONS CORRECT.
- ☐ LIFTERS INSTALLED
- ☐ OPENING CENTERED.
- ☐ REINFORCING CORRECT.
- ☐ SURFACE QUALITY ACCEPTABLE.
- ☐ EDGES CHAMFERED.
- ☐ ALL PATCHWORK ACCEPTABLE.

DESCRIPTION: 48" X 48" BOX CULVERT HEADWALL - 0° SKEW

CUSTOMER: JIM SMITH CONTRACTING

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

STRUCTURE: ST. 45+00 HW (1)

ORDER NO: 24-1643B

PE: J.H. ROSS

DATE: 05/28/26

SCALE: NTS

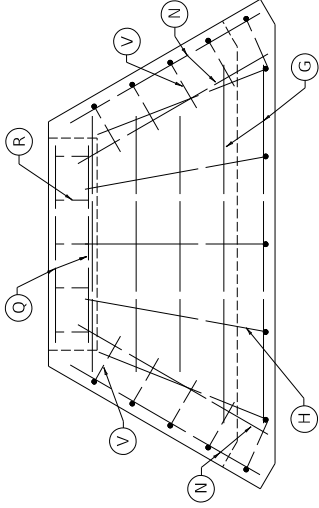
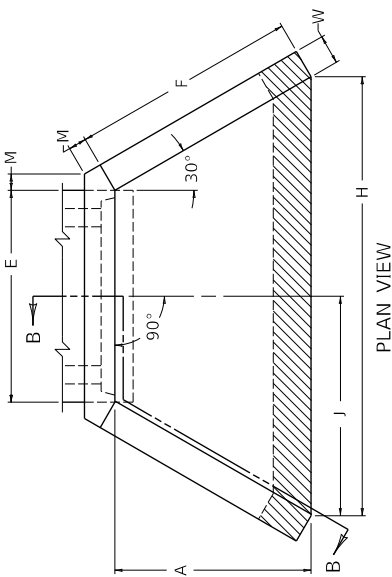
PG. 1 OF 1

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

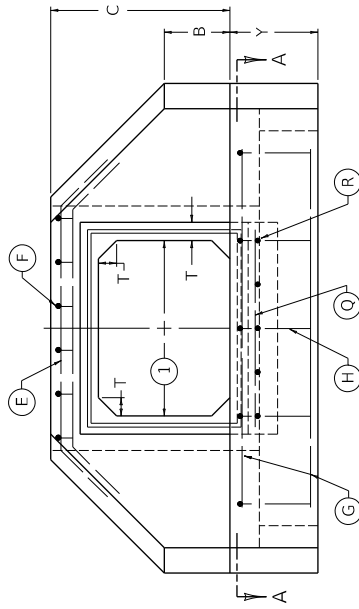




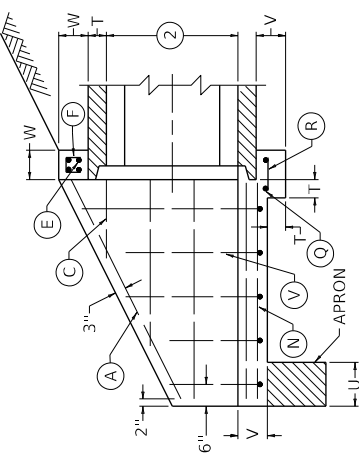
DRAWING SCALE:  
1/2" = 1'



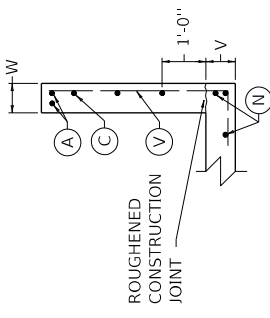
SECTION A-A



FRONT ELEVATION



SECTION B-B



WING SECTION

NOTES

1. SPAN OF BOX CULVERT
2. RISE OF BOX CULVERT
3. FOR DIMENSIONS, QUANTITIES, AND BILL OF REINFORCEMENT SEE CUR. STD. DWGS. RDH-1100, RDH-1200 AND RDH-1300 SERIES.
4. DIMENSIONS FROM FACE OF CONCRETE TO STEEL SHALL BE 2" CLEAR DISTANCE.
5. ENCIRCLED LETTERS, ( ), INDICATE STEEL BAR LOCATIONS.
6. BARS ( ), ( ), AND ( ) ARE SPACED 1'-0" O.C. ALL OTHER BARS SHALL BE EVENLY SPACED.
7. BARS ( ) ARE PLACED IN ORDER OF INCREASING LENGTHS, BEGINNING AT THE END OF EACH WING.
8. BARS ( ) ARE PLACED IN ORDER OF INCREASING LENGTHS, BEGINNING AT THE TOP OF EACH WING.
9. HEADWALLS LOCATED AT SHOULDER EDGE SHALL BE PARALLEL TO CENTERLINE OF ROAD.
10. LIMITS OF APRON.
11. PAVING SHALL BE REQUIRED AND SHALL BE SLOPED IN DIRECTION OF FLOW EQUAL TO SLOPE OF BOX. FRONT FACE OF HEADWALL AND ENDS OF WINGS SHALL REMAIN VERTICAL.

|                                                                          |
|--------------------------------------------------------------------------|
| (LAYOUT AND STEEL PATTERN)                                               |
| KENTUCKY<br>DEPARTMENT OF HIGHWAYS                                       |
| PRECAST BOX CULVERT<br>HEADWALLS - 0° SKEW<br>(BOX RISE LESS THAN 6'-0") |
| STANDARD DRAWING NO. RDH-1000-02                                         |
| SUBMITTED _____ DIRECTOR, DIVISION OF DESIGN _____ DATE _____            |
| APPROVED _____ STATE HIGHWAY ENGINEER _____ DATE _____                   |

| DIMENSION | PRECAST BOX CULVERT |       |        |        |        |        |        |        |        |         |        |        | DIMENSION |   |
|-----------|---------------------|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|-----------|---|
|           | 3'x2'               | 3'x3' | 4'x2'  | 4'x3'  | 4'x4'  | 5'x3'  | 5'x4'  | 5'x5'  | 6'x3'  | 6'x4'   | 6'x5'  | 6'x6'  |           |   |
| A         | 3'-4"               | 4'-4" | 3'-6"  | 4'-6"  | 5'-6"  | 4'-8"  | 5'-8"  | 6'-8"  | 4'-10" | 5'-10"  | 6'-10" | 8'-0"  | A         |   |
| B         | 1'-0"               | 1'-6" | 1'-0"  | 1'-6"  | 2'-0"  | 1'-6"  | 2'-0"  | 2'-6"  | 1'-6"  | 2'-0"   | 2'-6"  | 3'-0"  | B         |   |
| C         | 3'-0"               | 4'-0" | 3'-1"  | 4'-1"  | 5'-1"  | 4'-2"  | 5'-2"  | 6'-2"  | 4'-3"  | 5'-3"   | 6'-3"  | 7'-5"  | C         |   |
| E         | 3'-8"               |       |        | 4'-10" |        |        | 6'-0"  |        |        | 7'-2"   |        |        | E         |   |
| F         | 3'-10"              | 5'-0" | 4'-0"  | 5'-2"  | 6'-4"  | 5'-5"  | 6'-7"  | 7'-8"  | 5'-7"  | 6'-9"   | 7'-11" | 9'-3"  | F         |   |
| H         | 7'-6"               | 8'-8" | 8'-10" | 10'-0" | 11'-2" | 11'-5" | 12'-7" | 13'-8" | 12'-9" | 13'-11" | 15'-1" | 16'-5" | H         |   |
| J         | 3'-9"               | 4'-4" | 4'-5"  | 5'-0"  | 5'-7"  | 5'-8"  | 6'-3"  | 6'-10" | 6'-4"  | 6'-11"  | 7'-6"  | 8'-2"  | J         |   |
| M         |                     |       |        |        |        | 0'-5"  |        |        |        |         |        |        | 0'-6"     | M |
| T         | 0'-4"               |       | 0'-5"  |        |        | 0'-6"  |        |        | 0'-7"  |         |        |        | T         |   |
| U         | 1'-0"               |       |        |        |        |        |        |        |        |         |        |        |           | U |
| V         |                     |       |        |        |        | 0'-8"  |        |        |        |         |        |        | 1'-0"     | V |
| W         |                     |       |        |        |        | 0'-8"  |        |        |        |         |        |        | 0'-10"    | W |
| X         |                     |       |        |        |        | ----   |        |        |        |         |        |        | 2'-0"     | X |
| Y         |                     |       |        |        |        | 2'-0"  |        |        |        |         |        |        | 2'-6"     | Y |
| Z         |                     |       |        |        |        | ----   |        |        |        |         |        |        | 1'-3"     | Z |

| BOX<br>SIZE<br>① | CONCRETE<br>2 HEADWALLS |      |      |      |       |      | REINFORCEMENT<br>2 HEADWALLS |   |
|------------------|-------------------------|------|------|------|-------|------|------------------------------|---|
|                  | ②                       | ③    | ④    | ⑤    | ⑥     | ⑦    | ⑧                            | ⑧ |
| 3 X 2            | 3.17                    | 0.82 | —    | —    | —     | 271  | —                            | — |
| 3 X 3            | 4.39                    | 0.94 | —    | —    | —     | 365  | —                            | — |
| 4 X 2            | 3.74                    | 0.96 | —    | —    | —     | 311  | —                            | — |
| 4 X 3            | 5.06                    | 1.07 | —    | —    | —     | 389  | —                            | — |
| 4 X 4            | 6.60                    | 1.18 | —    | —    | —     | 497  | —                            | — |
| 5 X 3            | 5.76                    | 1.20 | —    | —    | —     | 430  | —                            | — |
| 5 X 4            | 7.39                    | 1.32 | —    | —    | —     | 576  | —                            | — |
| 5 X 5            | 9.24                    | 1.43 | —    | —    | —     | 681  | —                            | — |
| 6 X 3            | 6.51                    | 1.34 | —    | —    | —     | 483  | —                            | — |
| 6 X 4            | 8.22                    | 1.45 | —    | —    | —     | 603  | —                            | — |
| 6 X 5            | 10.16                   | 1.57 | —    | —    | —     | 738  | —                            | — |
| 6 X 6            | 19.81                   | 2.39 | 2.24 | 3.26 | 18.43 | 1619 | 273                          | — |
| 7 X 4            | 9.10                    | 1.59 | —    | —    | —     | 652  | —                            | — |
| 7 X 5            | 11.13                   | 1.70 | —    | —    | —     | 796  | —                            | — |
| 7 X 6            | 21.08                   | 2.54 | 2.56 | 3.43 | 19.40 | 1678 | 292                          | — |
| 7 X 7            | 24.13                   | 2.67 | 3.00 | 3.69 | 22.15 | 2092 | 353                          | — |
| 8 X 4            | 9.59                    | 1.68 | —    | —    | —     | 693  | —                            | — |
| 8 X 5            | 11.67                   | 1.80 | —    | —    | —     | 805  | —                            | — |
| 8 X 6            | 21.80                   | 2.65 | 2.78 | 3.54 | 19.90 | 1736 | 325                          | — |
| 8 X 7            | 24.88                   | 2.78 | 3.25 | 3.80 | 22.64 | 2117 | 350                          | — |
| 8 X 8            | 31.42                   | 4.03 | 3.34 | 5.47 | 29.52 | 2749 | 427                          | — |

| BOX<br>SIZE<br>① | CONCRETE<br>2 HEADWALLS |      |      |       |       |      | REINFORCEMENT<br>2 HEADWALLS |   |
|------------------|-------------------------|------|------|-------|-------|------|------------------------------|---|
|                  | ②                       | ③    | ④    | ⑤     | ⑥     | ⑦    | ⑧                            | ⑧ |
| 9 X 5            | 12.70                   | 1.93 | —    | —     | —     | 877  | —                            | — |
| 9 X 6            | 23.13                   | 2.81 | 3.12 | 3.71  | 20.91 | 1791 | 327                          | — |
| 9 X 7            | 26.26                   | 2.93 | 3.62 | 3.97  | 23.68 | 2204 | 397                          | — |
| 9 X 8            | 33.01                   | 4.23 | 3.73 | 5.70  | 30.75 | 2846 | 479                          | — |
| 9 X 9            | 36.81                   | 4.40 | 4.25 | 6.04  | 34.20 | 3431 | 509                          | — |
| 10 X 5           | 13.79                   | 2.07 | —    | —     | —     | 971  | —                            | — |
| 10 X 6           | 24.50                   | 2.96 | 3.47 | 3.89  | 21.96 | 1972 | 376                          | — |
| 10 X 7           | 27.69                   | 3.09 | 4.00 | 4.14  | 24.75 | 2419 | 444                          | — |
| 10 X 8           | 34.64                   | 4.43 | 4.12 | 5.93  | 32.01 | 3081 | 482                          | — |
| 10 X 9           | 38.50                   | 4.60 | 4.68 | 6.27  | 35.49 | 3539 | 565                          | — |
| 10 X 10          | 53.89                   | 7.29 | 5.40 | 9.95  | 51.16 | 4748 | 674                          | — |
| 11 X 4           | 12.60                   | 2.09 | —    | —     | —     | 870  | —                            | — |
| 11 X 6           | 25.92                   | 3.11 | 3.83 | 4.06  | 23.04 | 2049 | 413                          | — |
| 11 X 8           | 36.32                   | 4.63 | 4.53 | 6.16  | 33.32 | 3180 | 534                          | — |
| 11 X 10          | 56.04                   | 7.59 | 5.89 | 10.29 | 52.85 | 4801 | 677                          | — |
| 11 X 11          | 69.84                   | 7.77 | 6.93 | 10.66 | 65.81 | 5688 | 778                          | — |
| 12 X 4           | 13.72                   | 2.22 | —    | —     | —     | 903  | —                            | — |
| 12 X 6           | 27.39                   | 3.26 | 4.19 | 4.23  | 24.17 | 2134 | 457                          | — |
| 12 X 8           | 38.05                   | 4.84 | 4.94 | 6.39  | 34.66 | 3424 | 587                          | — |
| 12 X 10          | 60.16                   | 7.88 | 6.38 | 10.62 | 56.52 | 5075 | 740                          | — |
| 12 X 12          | 92.85                   | 8.01 | 8.83 | 10.98 | 86.98 | 6916 | 929                          | — |

① PRECAST CONCRETE BOX CULVERT SECTIONS EQUALS THE INTERIOR SPAN (S) BY THE INTERIOR RISE (R) IN FEET.

② CU. YDS. OF CONCRETE IN TWO HEADWALLS WITH PAVING.

③ CU. YDS. OF CONCRETE IN TWO APRONS (HEADWALLS WITH PAVING).

④ CU. YDS. OF CONCRETE IN TWO PAVED AREAS OF THE HEADWALLS.

⑤ CU. YDS. OF CONCRETE IN TWO APRONS (HEADWALLS WITHOUT PAVING).

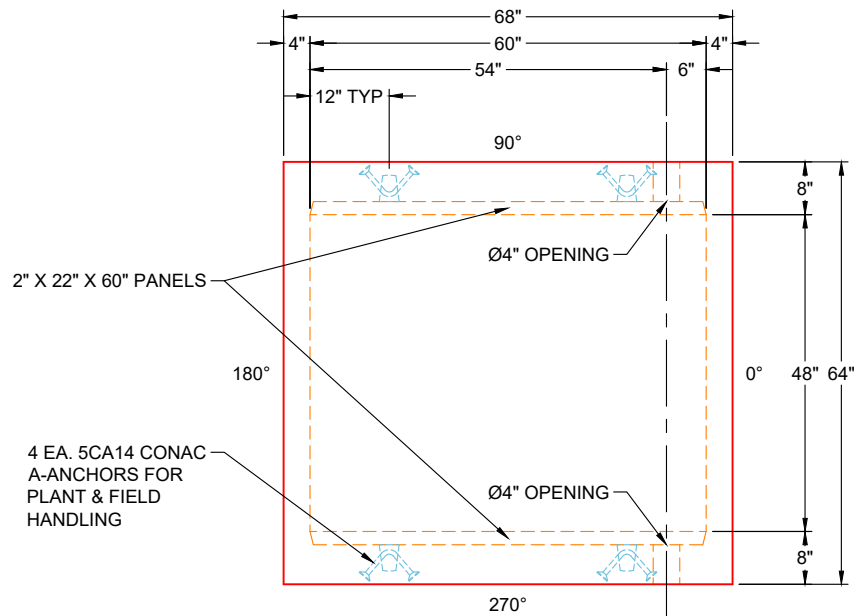
⑥ CU. YDS. OF CONCRETE IN TWO HEADWALLS WITHOUT PAVING.

⑦ POUNDS OF REINFORCING STEEL IN TWO HEADWALLS WITH PAVING.

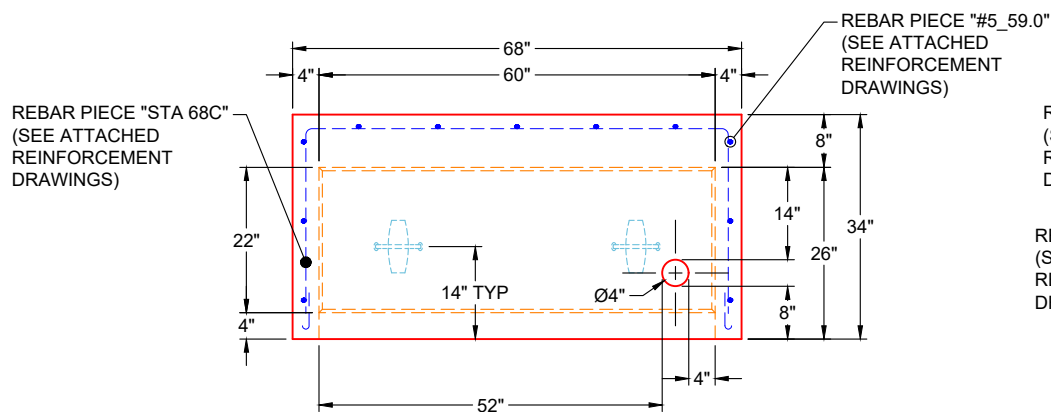
⑧ POUNDS OF REINFORCING STEEL TO DEDUCT WHEN PAVING FOR TWO HEADWALLS IS ELIMINATED.

|                                                                              |                                              |
|------------------------------------------------------------------------------|----------------------------------------------|
| KENTUCKY<br>DEPARTMENT OF HIGHWAYS                                           |                                              |
| QUANTITIES<br>3' x 2' - 12' x 12' H-WALLS<br>PRECAST BOX CULVERTS<br>0° SKEW |                                              |
| STANDARD DRAWING NO. RDH-1200-02                                             |                                              |
| SUBMITTED _____                                                              | DIRECTOR DIVISION OF DESIGN _____ DATE _____ |
| APPROVED _____                                                               | STATE HIGHWAY ENGINEER _____ DATE _____      |

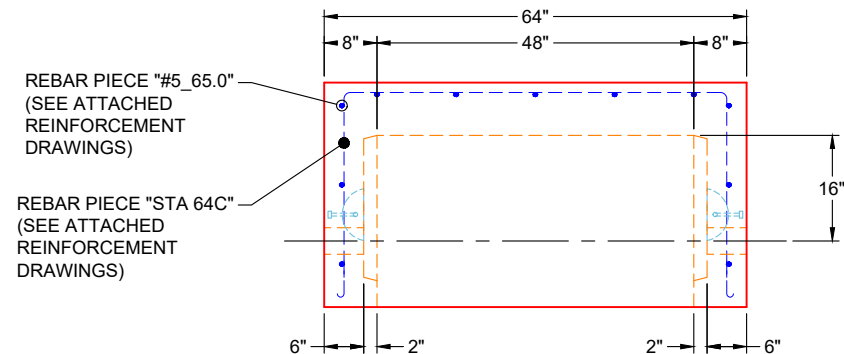




**PLAN VIEW  
(UPSIDE DOWN)**



**FRONT VIEW  
(UPSIDE DOWN)**



**SIDE VIEW  
(UPSIDE DOWN)**

### GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION)
2. CONCRETE: 5,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ATTACHED REINFORCEMENT DRAWINGS - MIN. 1½" REBAR CLEARANCE
4. WEIGHT: 5,890 LBS

**PRODUCTION NOTE**  
**PLEASE USE SPECIFIC VSG 48" X 60"**  
**MOLD FOR THIS STRUCTURE**

### PRODUCTION WORK ORDER

PRODUCT I.D.: BX4860-04W08F-BAVF

DESCRIPTION: 48" X 60" X 26" VAULT BASE



#### QUALITY CONTROL CHECKLIST

- ☐ ALL DIMENSIONS CORRECT.
- ☐ LIFTERS INSTALLED.
- ☐ HOLE LOCATION(S) CORRECT.
- ☐ REINFORCING CORRECT.
- ☐ SURFACE QUALITY ACCEPTABLE.
- ☐ EDGES CHAMFERED.
- ☐ ALL PATCHWORK ACCEPTABLE.

PRODUCT VIEW: UPSIDE DOWN

CUSTOMER: ENDESOL, INC.

PLANT: BEAVER DAM, KY

PROJECT: 6-25 691254033

WEIGHT: 5,890 LBS

STRUCTURE: 4-61620 1 (EFX-60 STATIONARY VAULT)

TOP SECTION JOINT: N / A

ORDER NO: 26-1620

BASE SECTION JOINT: FLAT

PE: J.H. ROSS

DRAWING: J. HORSLEY

QC CHECK INITIALS:

DATE: 03/25/26

SCALE: NTS

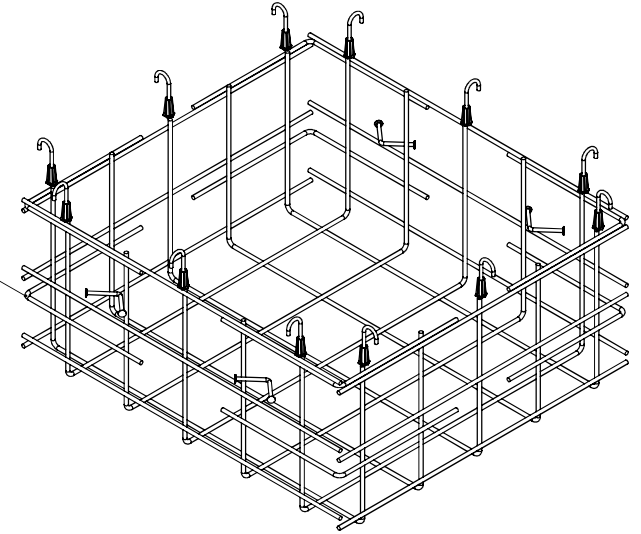
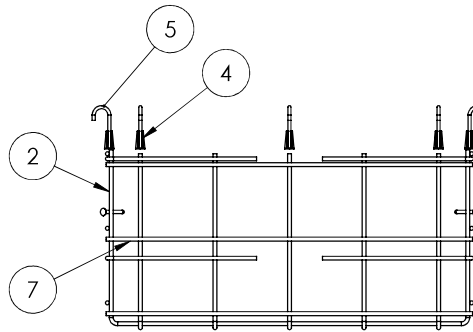
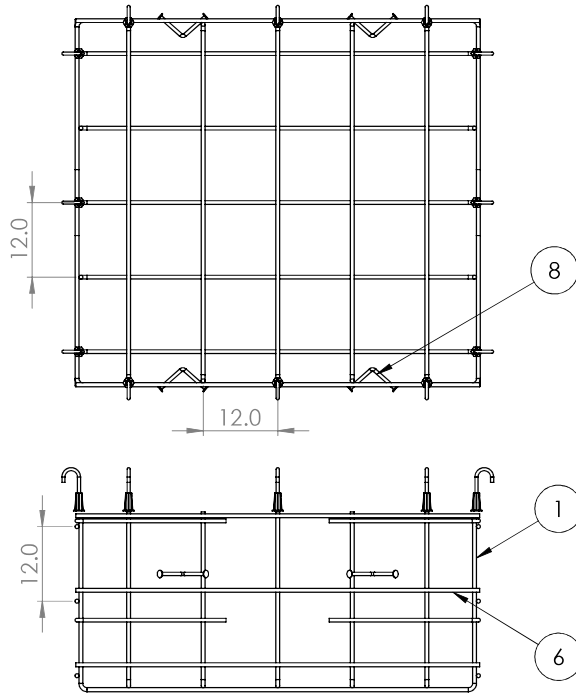
PG. 2 OF 2

4

3

2

1



| ITEM NO. | PART NUMBER  | DESCRIPTION          | QTY. |
|----------|--------------|----------------------|------|
| 1        | STA 68C      | #5 Rebar C Shape     | 5    |
| 2        | STA 64C      | #5 Rebar C Shape     | 5    |
| 3        | STA 2424L    | #5 Rebar L 24" x 24" | 8    |
| 4        | TSI 50x278   | Threaded Anchor      | 12   |
| 5        | J Bolt 42117 | #4 Rebar J           | 12   |
| 6        | #5_65.0      | #5 Rebar 65" Long    | 6    |
| 7        | #5_59.0      | #5 Rebar 59" Long    | 6    |
| 8        | LUL514G      | Lift Hook            | 4    |

## NOTES:

1. Rebar: #5 A614 Grade 60
2. All Rebar to have 1.5" Cover Minimum

**PROPRIETARY AND CONFIDENTIAL**  
THE INFORMATION CONTAINED IN THIS  
DRAWING IS THE SOLE PROPERTY OF  
ENDESOL INC. ANY REPRODUCTION IN  
PART OR AS A WHOLE WITHOUT THE  
WRITTEN PERMISSION OF  
ENDESOL INC. IS PROHIBITED.

|             |  |                                                                  |           |             |                                                            |
|-------------|--|------------------------------------------------------------------|-----------|-------------|------------------------------------------------------------|
|             |  | UNLESS OTHERWISE SPECIFIED:                                      | NAME      | DATE        | <b>ENDESOL</b><br>TITLE: EFX-60<br>Stationary Rebar Detail |
|             |  | DIMENSIONS ARE IN INCHES<br>TOLERANCES:<br>FRACTIONAL $\pm 1/8"$ | DRAWN     | CMJ 3-25-16 |                                                            |
|             |  | TWO PLACE DECIMAL $\pm .13$<br>THREE PLACE DECIMAL $\pm .125$    | CHECKED   | JHR 3-25-16 |                                                            |
|             |  | INTERPRET GEOMETRIC<br>TOLERANCING PER:                          | ENG APPR. | XXXX XXXX   |                                                            |
|             |  | MATERIAL<br>#5 REBAR                                             | MFG APPR. | XXXX XXXX   |                                                            |
|             |  | FINISH<br>MILL                                                   | Q.A.      | XXXX XXXX   | SIZE <b>B</b> DWG. NO. EFX-60 STA Rebar REV <b>X2</b>      |
| NEXT ASSY   |  | USED ON                                                          | COMMENTS: |             | SCALE: 1:20 WEIGHT: SHEET 1 OF 1                           |
| APPLICATION |  | DO NOT SCALE DRAWING                                             |           |             |                                                            |

2

1

B

B



A

A



981 W. 7th Street  
Beaver Dam, KY  
42320  
P 270-363-2238  
F 270-363-2234  
iCastinc.com

DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL  
ANGULAR: MACH BEND  
TWO PLACE DECIMAL  
THREE PLACE DECIMAL

MATERIAL

FINISH

DO NOT SCALE DRAWING

|           | NAME | DATE |
|-----------|------|------|
| DRAWN     | xxx  |      |
| CHECKED   |      |      |
| ENG APPR. |      |      |
| MFG APPR. |      |      |
| Q.A.      |      |      |
| COMMENTS: |      |      |

#5 Rebar C  
Shape

|                  |                     |              |
|------------------|---------------------|--------------|
| SIZE<br><b>A</b> | DWG. NO.<br>STA 68C | REV.         |
| SCALE:1:50       | WEIGHT:             | SHEET 1 OF 1 |

2

1



2

1

B

B



A

A



981 W. 7th Street  
Beaver Dam, KY  
42320  
P 270-363-2238  
F 270-363-2234  
iCastinc.com

DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL  
ANGULAR: MACH BEND  
TWO PLACE DECIMAL  
THREE PLACE DECIMAL

MATERIAL

FINISH

DO NOT SCALE DRAWING

|           | NAME | DATE |
|-----------|------|------|
| DRAWN     | xxx  |      |
| CHECKED   |      |      |
| ENG APPR. |      |      |
| MFG APPR. |      |      |
| Q.A.      |      |      |
| COMMENTS: |      |      |

#5 Rebar C  
Shape

|                  |                     |              |
|------------------|---------------------|--------------|
| SIZE<br><b>A</b> | DWG. NO.<br>STA 64C | REV.         |
| SCALE:1:50       | WEIGHT:             | SHEET 1 OF 1 |

2

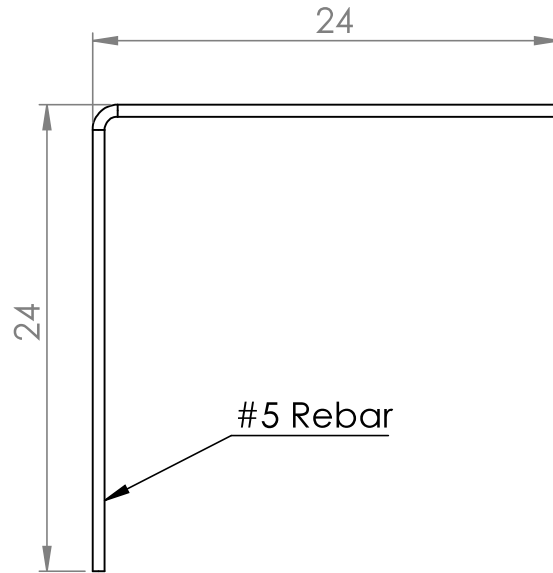
1

2

1

B

B



A

A



981 W. 7th Street  
Beaver Dam, KY  
42320  
P 270-363-2238  
F 270-363-2234  
iCastinc.com

DIMENSIONS ARE IN INCHES  
TOLERANCES:  
FRACTIONAL  
ANGULAR: MACH BEND  
TWO PLACE DECIMAL  
THREE PLACE DECIMAL

MATERIAL

FINISH

DO NOT SCALE DRAWING

|           | NAME | DATE |
|-----------|------|------|
| DRAWN     | xxx  |      |
| CHECKED   |      |      |
| ENG APPR. |      |      |
| MFG APPR. |      |      |
| Q.A.      |      |      |
| COMMENTS: |      |      |

#5 Rebar L 24" x  
24"

| SIZE       | DWG. NO.  | REV.         |
|------------|-----------|--------------|
| A          | STA 2424L |              |
| SCALE:1:50 | WEIGHT:   | SHEET 1 OF 1 |

2

1

**Job Number:**

26-1620

**Job Name:**

6-25 691254033

**Structure:**

4-61620 1

**Note:**

Nosing Kit To Be Shipped. See Chad Jarvis.

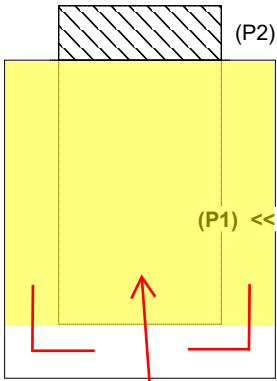
|                                                                                                                                                                                                                                                                 |         |       |           |          |                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                       |           |         |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|-----------|----------|--------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|--------|
| Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192)<br>Job Location: Parkersburg, WV<br>Contractor: Triton Construction                                                                                                                                            |         |       |           |          | Plant: 100<br>3/26/2026 1:41:51 PM                                                               |           | Tech: Jared - F<br>PC: E. Bradley                                                                                                                                                                                                                                                                                                                                                     |           |         |        |
| <b>Structure ID: B-02</b>                                                                                                                                                                                                                                       |         |       |           |          |                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                       |           |         |        |
| <b>P1 BX2428-08BAVF</b>                                                                                                                                                                                                                                         |         |       |           |          | <b>BOX BASE 8inW, 8inF, Variable Ht F/n</b>                                                      |           |                                                                                                                                                                                                                                                                                                                                                                                       |           |         |        |
| P2) 24" x 28" - CASTING HEIGHT - 8"<br>P1) 24" x 28" - BOX BASE 8inW, 8inF, Variable Ht - 39"<br>1) Conseal CS-102 1.00" (Single)<br>1) SECONDARY POUR - Walls<br>1) CASTING - NEENAH R-3588-L (L GRATE)<br>1) CASTING - NEENAH R-3589 (FRAME)<br>2) Hole - 24" |         |       |           |          | 0 lb<br>4211 lb<br>0 lb<br>0 lb<br>152 lb<br>250 lb<br>0 lb<br>-----<br>Structure Total: 4613 lb |           | <b>Structure Notes:</b><br><b>**WVDOT STATE PROJECT**</b><br>1. PER ASTM C913 SPECIFICATIONS.<br>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br>3. NO STEPS AND NO INVERT CHANNEL.<br>4. CASTING BY I-CAST (NEENAH R-3589 (FRAME)& R-3588-L (L GRATE)) .<br><br>REINFORCING PER ASTM A615 (GRADE 60).<br>- WALLS (As .12) #5 BARS AT 12" C.C.E.W.<br>- FLOOR (As .12) #5 BARS AT 12" C.C.E.W. |           |         |        |
| Rim: 605'    Rim to Invert: 4.42'    Slack: 6.04"    Sump: 0"    Step Position:                                                                                                                                                                                 |         |       |           |          |                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                       |           |         |        |
| Position                                                                                                                                                                                                                                                        | Elev    | Angle | Ext. (cw) | Pipe     | Pipe OD                                                                                          | Connector | Hole                                                                                                                                                                                                                                                                                                                                                                                  | Horz Size | Up ( )  | Offset |
| Invert 1                                                                                                                                                                                                                                                        | 600.58' | 0°    | 20"       | 18" HDPE | 21.2"                                                                                            | Hole 24   | 24"                                                                                                                                                                                                                                                                                                                                                                                   | 24"       | -1.625" | 0"     |
| Invert 2                                                                                                                                                                                                                                                        | 600.68' | 90°   | 22"       | 18" HDPE | 21.2"                                                                                            | Hole 24   | 24"                                                                                                                                                                                                                                                                                                                                                                                   | 24"       | -0.375" | 0"     |
| Invert 3                                                                                                                                                                                                                                                        |         |       |           |          |                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                       |           |         |        |
| Invert 4                                                                                                                                                                                                                                                        |         |       |           |          |                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                       |           |         |        |
| Invert 5                                                                                                                                                                                                                                                        |         |       |           |          |                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                       |           |         |        |
| Invert 6                                                                                                                                                                                                                                                        |         |       |           |          |                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                       |           |         |        |
| Invert 7                                                                                                                                                                                                                                                        |         |       |           |          |                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                       |           |         |        |
| Invert 8                                                                                                                                                                                                                                                        |         |       |           |          |                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                       |           |         |        |

|                                      |  |  |  |  |                                                                                                                                                                                                                             |             |            |      |               |
|--------------------------------------|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|------|---------------|
| RIGHT-SIDE UP VIEW (int. dimensions) |  |  |  |  | UPSIDE-DOWN VIEW (int. dimenions)                                                                                                                                                                                           |             |            |      |               |
|                                      |  |  |  |  | <div style="border: 2px solid red; padding: 10px; text-align: center;">           1ST POUR (FLOOR) = 1,182 LBS<br/>           2ND POUR (WALLS) = 3,029 LBS         </div>                                                   |             |            |      |               |
|                                      |  |  |  |  | <div style="border: 2px solid red; padding: 10px;">           1ST POUR (FLOOR)<br/>           STUB #5 L BARS OUT<br/>           TOP FLOOR, SPA AT<br/>           12" C/C FOR<br/>           CONNECTING WALLS         </div> |             |            |      |               |
| INSIDE WALL DIMENSIONS               |  |  |  |  |                                                                                                                                                                                                                             |             |            |      |               |
|                                      |  |  |  |  | Front                                                                                                                                                                                                                       | Right (28") | Back (24") | Left | EXT           |
|                                      |  |  |  |  |                                                                                                                                                                                                                             |             |            |      | 39"<br><br>8" |

|                                  |                               |                                        |                                        |                                                  |
|----------------------------------|-------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Flat<br>Seam Dn: n/a | Wall Thickness: 8"<br>Floor Height: 8" | Height (Int): 39"<br>Height (Ext): 47" | Weight (Net): 4211 lb<br>Volume (Net): 1.08cu.yd |
|----------------------------------|-------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|

|                                                                                                                                                                                                                                                                              |         |       |           |          |                                    |                                                                                                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|-----------|----------|------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192)<br>Job Location: Parkersburg, WV<br>Contractor: Triton Construction                                                                                                                                                         |         |       |           |          | Plant: 100<br>3/26/2026 1:41:51 PM |                                                                                                                 | Tech: Jared - F<br>PC: E. Bradley |                                                                                                                                                                                                                                                                                                                                                                                                    |  |        |  |
| <b>Structure ID: B-02</b>                                                                                                                                                                                                                                                    |         |       |           |          |                                    |                                                                                                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |        |  |
| <b>P1 BX2428-08BAVF BOX BASE 8inW, 8inF, Variable Ht F/n</b>                                                                                                                                                                                                                 |         |       |           |          |                                    |                                                                                                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |        |  |
| <p>P2) 24" x 28" - CASTING HEIGHT - 8"<br/>P1) 24" x 28" - BOX BASE 8inW, 8inF, Variable Ht - 39"<br/>1) Conseal CS-102 1.00" (Single)<br/>1) SECONDARY POUR - Walls<br/>1) CASTING - NEENAH R-3588-L (L GRATE)<br/>1) CASTING - NEENAH R-3589 (FRAME)<br/>2) Hole - 24"</p> |         |       |           |          |                                    | <p>0 lb<br/>4211 lb<br/>0 lb<br/>0 lb<br/>152 lb<br/>250 lb<br/>0 lb<br/>-----<br/>Structure Total: 4613 lb</p> |                                   | <p><u>Structure Notes:</u><br/>**WVDOT STATE PROJECT**<br/>1. PER ASTM C913 SPECIFICATIONS.<br/>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br/>3. NO STEPS AND NO INVERT CHANNEL.<br/>4. CASTING BY I-CAST (NEENAH R-3589 (FRAME)&amp; R-3588-L (L GRATE)) .<br/><br/>REINFORCING PER ASTM A615 (GRADE 60).<br/>- WALLS (As .12) #5 BARS AT 12" C.C.E.W.<br/>- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.</p> |                                                                                    |        |  |
| Rim: 605' Rim to Invert: 4.42' Slack: 6.04" Sump: 0" Step Position:                                                                                                                                                                                                          |         |       |           |          |                                    |                                                                                                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                     | Elev    | Angle | Ext. (cw) | Pipe     | Pipe OD                            | Connector                                                                                                       | Hole                              | Horz Size                                                                                                                                                                                                                                                                                                                                                                                          | Up ( _ )                                                                           | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                     | 600.58' | 0°    | 20"       | 18" HDPE | 21.2"                              | Hole 24                                                                                                         | 24"                               | 24"                                                                                                                                                                                                                                                                                                                                                                                                | -1.625"                                                                            | 0"     |  |
| Invert 2                                                                                                                                                                                                                                                                     | 600.68' | 90°   | 22"       | 18" HDPE | 21.2"                              | Hole 24                                                                                                         | 24"                               | 24"                                                                                                                                                                                                                                                                                                                                                                                                | -0.375"                                                                            | 0"     |  |
| Invert 3                                                                                                                                                                                                                                                                     |         |       |           |          |                                    |                                                                                                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |        |  |
| Invert 4                                                                                                                                                                                                                                                                     |         |       |           |          |                                    |                                                                                                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                     |         |       |           |          |                                    |                                                                                                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                     |         |       |           |          |                                    |                                                                                                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                     |         |       |           |          |                                    |                                                                                                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                     |         |       |           |          |                                    |                                                                                                                 |                                   |                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                    |        |  |

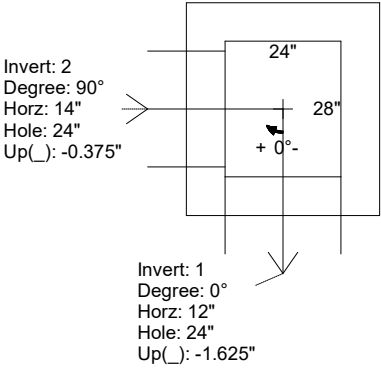


(P2)

(P1) <<

**2ND POUR (WALLS)**

**RIGHT-SIDE UP VIEW (int. dimensions)**



Invert: 2  
Degree: 90°  
Horz: 14"  
Hole: 24"  
Up(\_): -0.375"

Invert: 1  
Degree: 0°  
Horz: 12"  
Hole: 24"  
Up(\_): -1.625"

24"

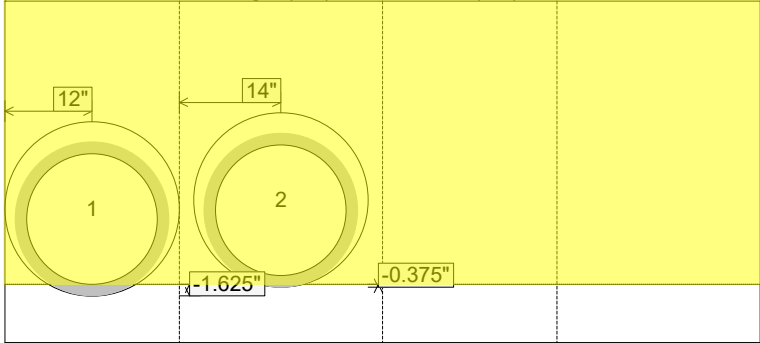
28"

+ 0° -

**UPSIDE-DOWN VIEW (int. dimenions)**

**1ST POUR (FLOOR) = 1,182 LBS**  
**2ND POUR (WALLS) = 3,029 LBS**

**INSIDE WALL DIMENSIONS**



Front Right (28") Back (24") Left

12"

14"

1

2

-1.625"

-0.375"

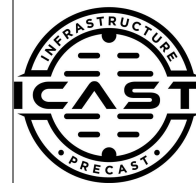
EXT

39"

8"

|                                  |                               |                                        |                                        |                                                  |
|----------------------------------|-------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Flat<br>Seam Dn: n/a | Wall Thickness: 8"<br>Floor Height: 8" | Height (Int): 39"<br>Height (Ext): 47" | Weight (Net): 4211 lb<br>Volume (Net): 1.08cu.yd |
|----------------------------------|-------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|

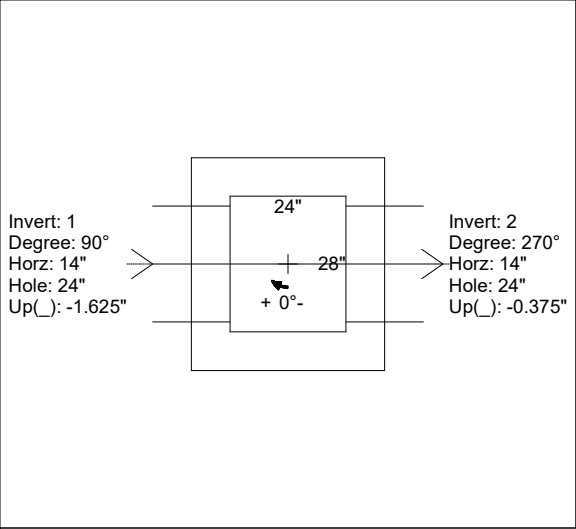




|                         |
|-------------------------|
| Weight (Net): 4956 lb   |
| Volume (Net): 1.27cu.yd |

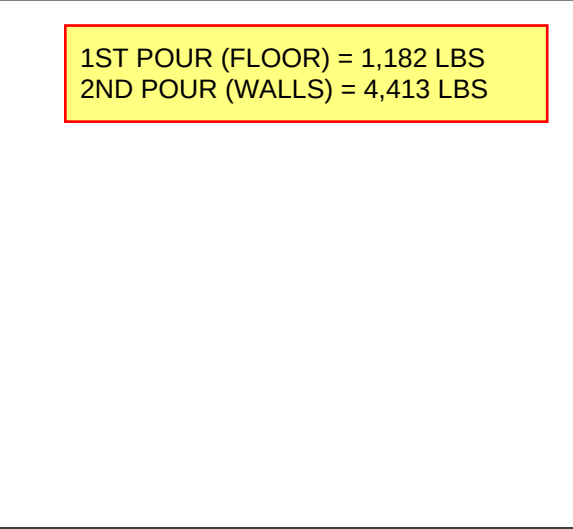
|                                                                                                                                                                                                                                                                                  |         |       |           |          |                                    |                                                                                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |        |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|-----------|----------|------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|--|
| Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192)<br>Job Location: Parkersburg, WV<br>Contractor: Triton Construction                                                                                                                                                             |         |       |           |          | Plant: 100<br>3/26/2026 1:41:50 PM |                                                                                                                     | Tech: Jared - F<br>PC: E. Bradley |                                                                                                                                                                                                                                                                                                                                                                                                 |  |        |  |
| Structure ID: B-04                                                                                                                                                                                                                                                               |         |       |           |          |                                    |                                                                                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |        |  |
| P1 BX2428-08BAVF BOX BASE 8inW, 8inF, Variable Ht F/n                                                                                                                                                                                                                            |         |       |           |          |                                    |                                                                                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |        |  |
| <div>P2) 24" x 28" - CASTING HEIGHT - 8"<br/>P1) 24" x 28" - BOX BASE 8inW, 8inF, Variable Ht - 55"<br/>1) Conseal CS-102 1.00" (Single)<br/>1) SECONDARY POUR - Walls<br/>1) CASTING - NEENAH R-3588-L (L GRATE)<br/>1) CASTING - NEENAH R-3589 (FRAME)<br/>2) Hole - 24"</div> |         |       |           |          |                                    | <div>0 lb<br/>5595 lb<br/>0 lb<br/>0 lb<br/>152 lb<br/>250 lb<br/>0 lb<br/>-----<br/>Structure Total: 5997 lb</div> |                                   | <div>Structure Notes:<br/>**WVDOT STATE PROJECT**<br/>1. PER ASTM C913 SPECIFICATIONS.<br/>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br/>3. NO STEPS AND NO INVERT CHANNEL.<br/>4. CASTING BY I-CAST (NEENAH R-3589 (FRAME)&amp; R-3588-L (L GRATE)) .<br/><br/>REINFORCING PER ASTM A615 (GRADE 60).<br/>- WALLS (As .12) #5 BARS AT 12" C.C.E.W.<br/>- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.</div> |                                                                                    |        |  |
| Rim: 608.87' Rim to Invert: 5.79' Slack: 6.48" Sump: 0" Step Position:                                                                                                                                                                                                           |         |       |           |          |                                    |                                                                                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |        |  |
| Position                                                                                                                                                                                                                                                                         | Elev    | Angle | Ext. (cw) | Pipe     | Pipe OD                            | Connector                                                                                                           | Hole                              | Horz Size                                                                                                                                                                                                                                                                                                                                                                                       | Up ( _ )                                                                           | Offset |  |
| Invert 1                                                                                                                                                                                                                                                                         | 603.08' | 90°   | 22"       | 18" HDPE | 21.2"                              | Hole 24                                                                                                             | 24"                               | 24"                                                                                                                                                                                                                                                                                                                                                                                             | -1.625"                                                                            | 0"     |  |
| Invert 2                                                                                                                                                                                                                                                                         | 603.18' | 270°  | 22"       | 18" HDPE | 21.2"                              | Hole 24                                                                                                             | 24"                               | 24"                                                                                                                                                                                                                                                                                                                                                                                             | -0.375"                                                                            | 0"     |  |
| Invert 3                                                                                                                                                                                                                                                                         |         |       |           |          |                                    |                                                                                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |        |  |
| Invert 4                                                                                                                                                                                                                                                                         |         |       |           |          |                                    |                                                                                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |        |  |
| Invert 5                                                                                                                                                                                                                                                                         |         |       |           |          |                                    |                                                                                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |        |  |
| Invert 6                                                                                                                                                                                                                                                                         |         |       |           |          |                                    |                                                                                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |        |  |
| Invert 7                                                                                                                                                                                                                                                                         |         |       |           |          |                                    |                                                                                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |        |  |
| Invert 8                                                                                                                                                                                                                                                                         |         |       |           |          |                                    |                                                                                                                     |                                   |                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                    |        |  |

RIGHT-SIDE UP VIEW (int. dimensions)

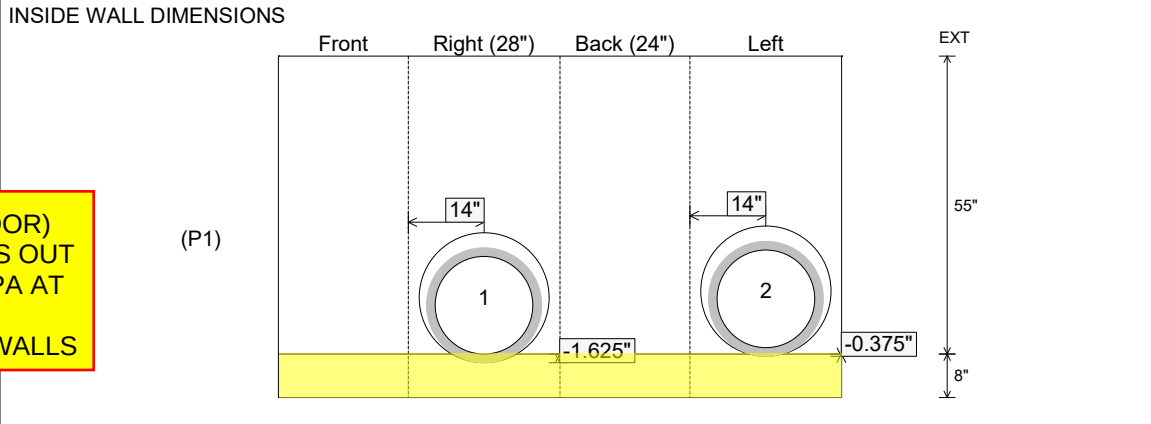


UPSIDE-DOWN VIEW (int. dimenions)

1ST POUR (FLOOR) = 1,182 LBS  
2ND POUR (WALLS) = 4,413 LBS



INSIDE WALL DIMENSIONS



1ST POUR (FLOOR)  
STUB #5 L BARS OUT  
TOP FLOOR, SPA AT  
12" C/C FOR  
CONNECTING WALLS

Coating (Int):  
Coating (Ext):

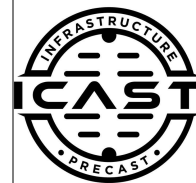
Seam Up: Flat  
Seam Dn: n/a

Wall Thickness: 8"  
Floor Height: 8"

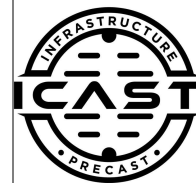
Height (Int): 55"  
Height (Ext): 63"

Weight (Net): 5595 lb  
Volume (Net): 1.43cu.yd





|                         |
|-------------------------|
| Weight (Net): 5595 lb   |
| Volume (Net): 1.43cu.yd |



Weight (Net): 6508 lb  
Volume (Net): 1.66cu.yd

|                                                                                                                                                                                                                                                                 |         |       |                                             |          |                                    |                                                                                                  |                                   |                                                                                                                                                                                                                                                                                                                                                                                       |          |        |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|---------------------------------------------|----------|------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|--|--|
| Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192)<br>Job Location: Parkersburg, WV<br>Contractor: Triton Construction                                                                                                                                            |         |       |                                             |          | Plant: 100<br>3/26/2026 1:41:49 PM |                                                                                                  | Tech: Jared - F<br>PC: E. Bradley |                                                                                                                                                                                                                                                                                                                                                                                       |          |        |  |  |
| <b>Structure ID: B-05</b>                                                                                                                                                                                                                                       |         |       |                                             |          |                                    |                                                                                                  |                                   |                                                                                                                                                                                                                                                                                                                                                                                       |          |        |  |  |
| <b>P1 BX2428-08BAVF</b>                                                                                                                                                                                                                                         |         |       | <b>BOX BASE 8inW, 8inF, Variable Ht F/n</b> |          |                                    |                                                                                                  |                                   |                                                                                                                                                                                                                                                                                                                                                                                       |          |        |  |  |
| P2) 24" x 28" - CASTING HEIGHT - 8"<br>P1) 24" x 28" - BOX BASE 8inW, 8inF, Variable Ht - 65"<br>1) Conseal CS-102 1.00" (Single)<br>1) SECONDARY POUR - Walls<br>1) CASTING - NEENAH R-3588-L (L GRATE)<br>1) CASTING - NEENAH R-3589 (FRAME)<br>2) Hole - 24" |         |       |                                             |          |                                    | 0 lb<br>6508 lb<br>0 lb<br>0 lb<br>152 lb<br>250 lb<br>0 lb<br>-----<br>Structure Total: 6910 lb |                                   | <b>Structure Notes:</b><br><b>**WVDOT STATE PROJECT**</b><br>1. PER ASTM C913 SPECIFICATIONS.<br>2. CONCRETE = 4,000 PSI AT 28 DAYS.<br>3. NO STEPS AND NO INVERT CHANNEL.<br>4. CASTING BY I-CAST (NEENAH R-3589 (FRAME)& R-3588-L (L GRATE)) .<br><br>REINFORCING PER ASTM A615 (GRADE 60).<br>- WALLS (As .12) #5 BARS AT 12" C.C.E.W.<br>- FLOOR (As .12) #5 BARS AT 12" C.C.E.W. |          |        |  |  |
| Rim: 610.96'    Rim to Invert: 6.63'    Slack: 6.56"    Sump: 0"    Step Position:                                                                                                                                                                              |         |       |                                             |          |                                    |                                                                                                  |                                   |                                                                                                                                                                                                                                                                                                                                                                                       |          |        |  |  |
| Position                                                                                                                                                                                                                                                        | Elev    | Angle | Ext. (cw)                                   | Pipe     | Pipe OD                            | Connector                                                                                        | Hole                              | Horz Size                                                                                                                                                                                                                                                                                                                                                                             | Up ( _ ) | Offset |  |  |
| Invert 1                                                                                                                                                                                                                                                        | 604.33' | 90°   | 22"                                         | 18" HDPE | 21.2"                              | Hole 24                                                                                          | 24"                               | 24"                                                                                                                                                                                                                                                                                                                                                                                   | -1.625"  | 0"     |  |  |
| Invert 2                                                                                                                                                                                                                                                        | 604.43' | 270°  | 22"                                         | 18" HDPE | 21.2"                              | Hole 24                                                                                          | 24"                               | 24"                                                                                                                                                                                                                                                                                                                                                                                   | -0.375"  | 0"     |  |  |
| Invert 3                                                                                                                                                                                                                                                        |         |       |                                             |          |                                    |                                                                                                  |                                   |                                                                                                                                                                                                                                                                                                                                                                                       |          |        |  |  |
| Invert 4                                                                                                                                                                                                                                                        |         |       |                                             |          |                                    |                                                                                                  |                                   |                                                                                                                                                                                                                                                                                                                                                                                       |          |        |  |  |
| Invert 5                                                                                                                                                                                                                                                        |         |       |                                             |          |                                    |                                                                                                  |                                   |                                                                                                                                                                                                                                                                                                                                                                                       |          |        |  |  |
| Invert 6                                                                                                                                                                                                                                                        |         |       |                                             |          |                                    |                                                                                                  |                                   |                                                                                                                                                                                                                                                                                                                                                                                       |          |        |  |  |
| Invert 7                                                                                                                                                                                                                                                        |         |       |                                             |          |                                    |                                                                                                  |                                   |                                                                                                                                                                                                                                                                                                                                                                                       |          |        |  |  |
| Invert 8                                                                                                                                                                                                                                                        |         |       |                                             |          |                                    |                                                                                                  |                                   |                                                                                                                                                                                                                                                                                                                                                                                       |          |        |  |  |

**RIGHT-SIDE UP VIEW (int. dimensions)**

**UPSIDE-DOWN VIEW (int. dimenions)**

1ST POUR (FLOOR) = 1,182 LBS  
 2ND POUR (WALLS) = 5,326 LBS

**INSIDE WALL DIMENSIONS**

|                                  |                               |                                        |                                        |                                                  |
|----------------------------------|-------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|
| Coating (Int):<br>Coating (Ext): | Seam Up: Flat<br>Seam Dn: n/a | Wall Thickness: 8"<br>Floor Height: 8" | Height (Int): 65"<br>Height (Ext): 73" | Weight (Net): 6508 lb<br>Volume (Net): 1.66cu.yd |
|----------------------------------|-------------------------------|----------------------------------------|----------------------------------------|--------------------------------------------------|