

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)

P4 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

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)

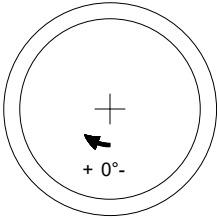
(P5)

(P4) <<

(P3)

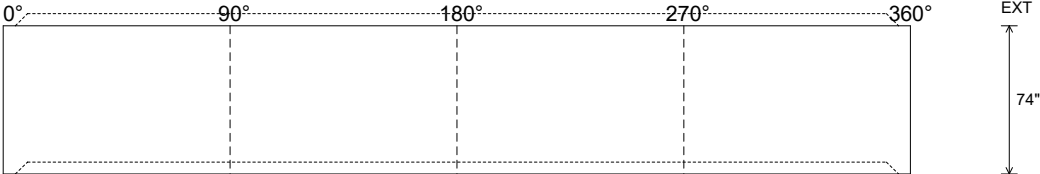
(P2)

(P1)



INSIDE WALL DIMENSIONS

(P4)



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

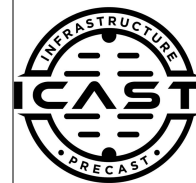
Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315)
Job Location: Indiana, KY
Contractor: Louisville Paving and Construction

Plant: 100

6/12/2026 3:12:28 PM

Tech: J. Horsley - A

PC: J. Jarvis



Structure ID: 51

P2 MH048LD12ECC

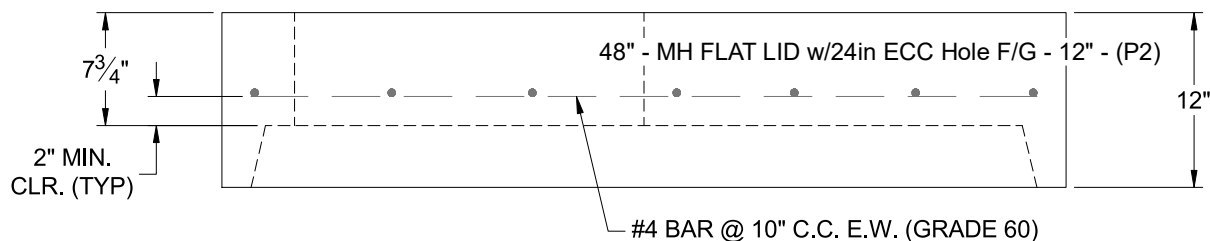
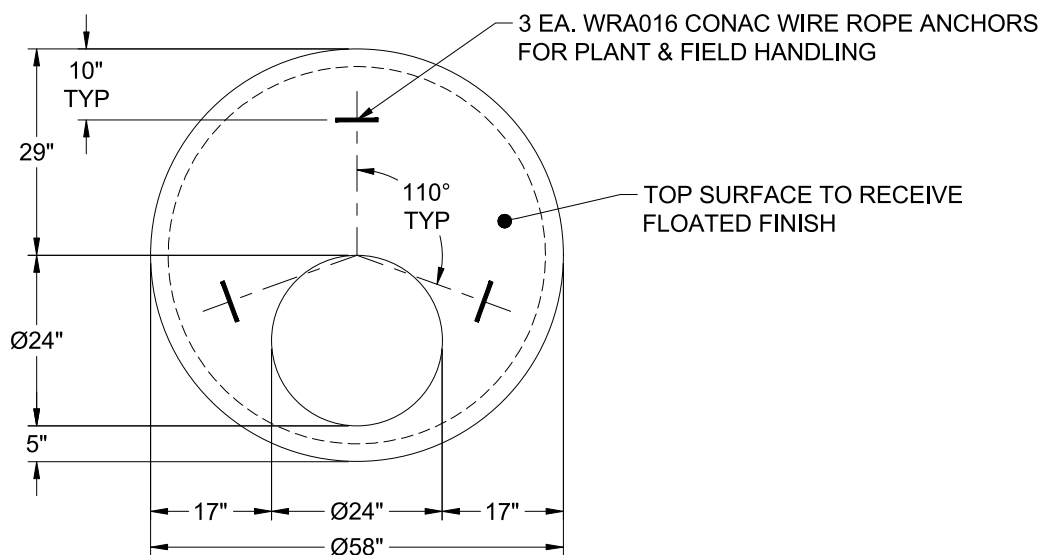
MH FLAT LID w/24in ECC Hole F/G

- P3) 24" - CASTING HEIGHT - 8"
P2) 48" - MH FLAT LID w/24in ECC Hole F/G - 12"
P1) 48" - MH BASE Custom Ht T/n - 47"
1) 48" - Conseal CS-102 1.00"
1) 24" - Conseal CS-102 1.00"
2) Hole - 20
1) Hole - 18
4) MH Step ML-10-TDS-NCR - 10"

0 lb
1561 lb
4234 lb
0 lb
0 lb
0 lb
0 lb
0 lb
Structure Total: 5795 lb

Structure Notes:

- ** KYTC STATE PROJECT **
1. PER KYTC MANHOLE TYPE A / ASTM C-478 SPECS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: #4 BAR @ 10" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 4. HOE KY-510 FRAME & COVER "STORM" SUPPLIED BY OTHERS
 5. LIFTERS: 3 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
 6. TOP SURFACE TO RECEIVE FLOATED FINISH



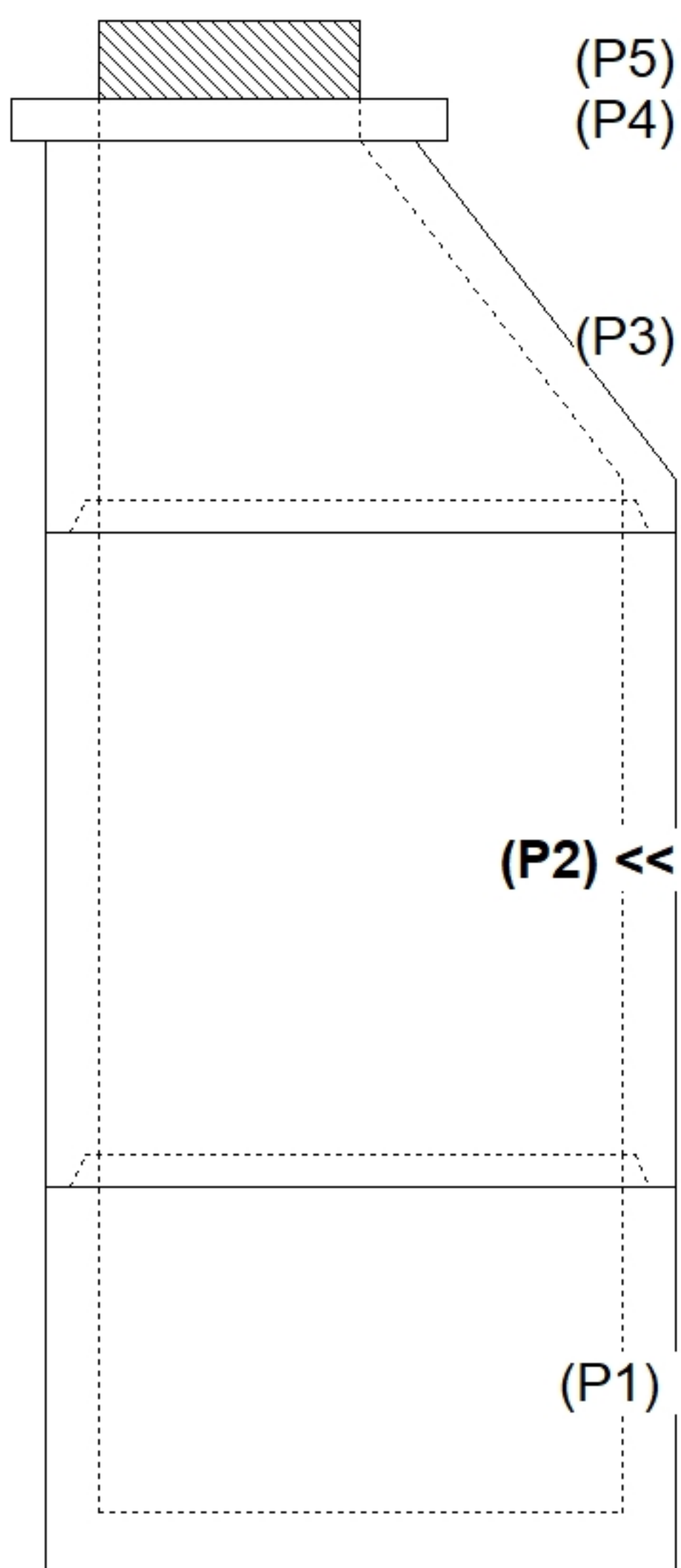
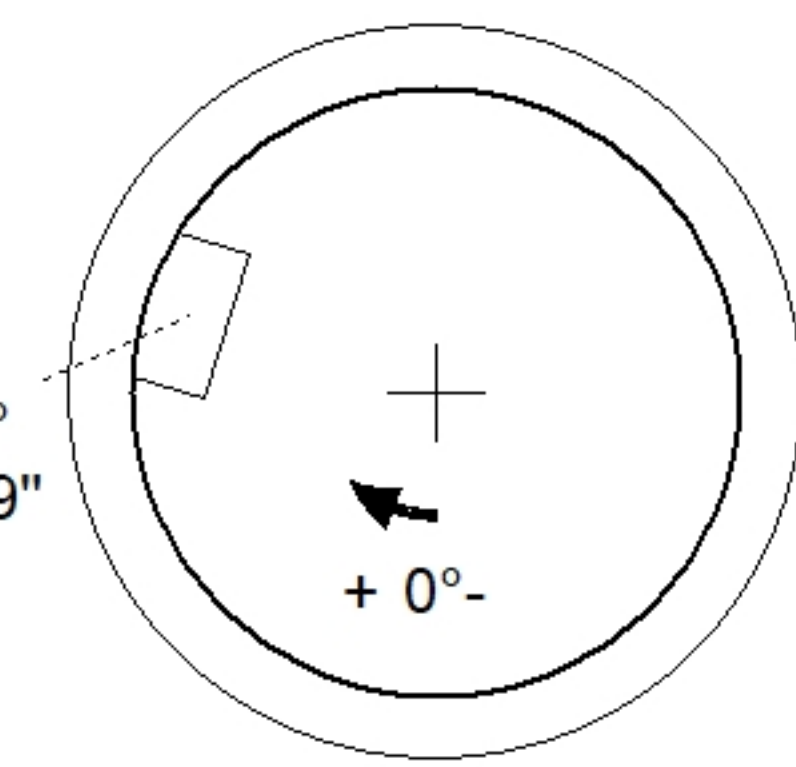
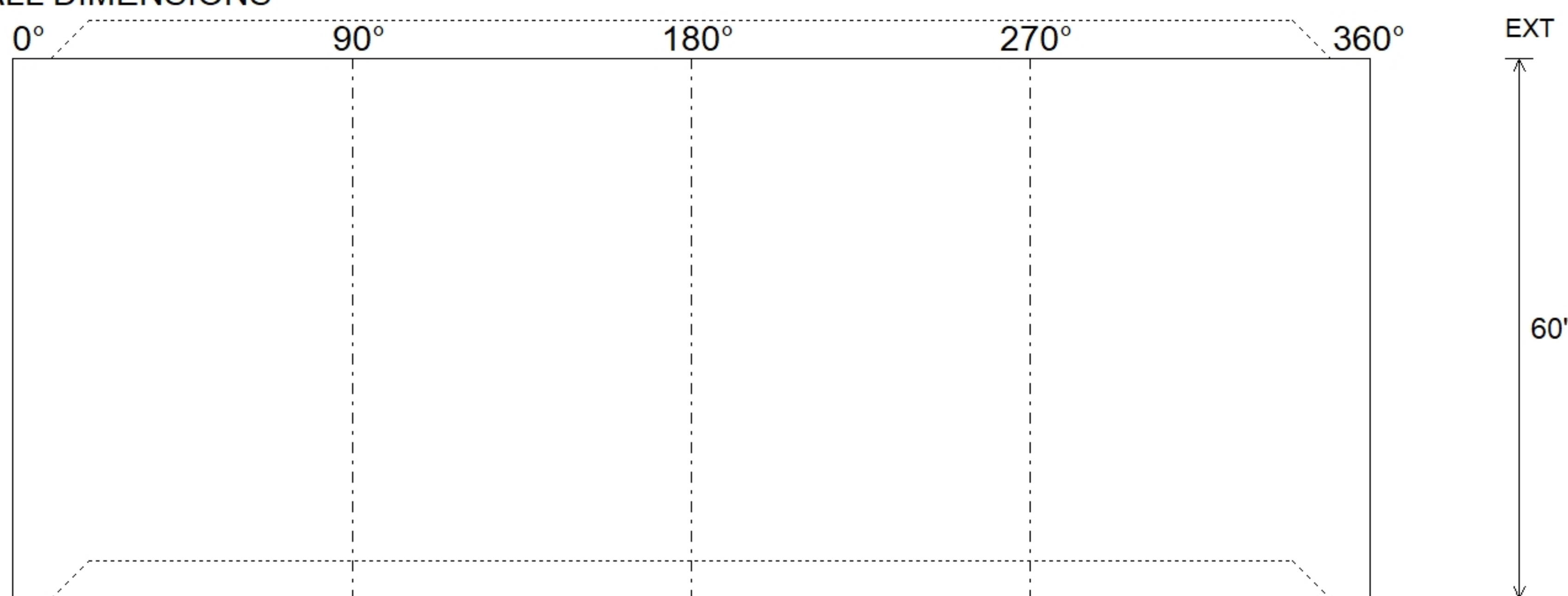
Coating (Int):
Coating (Ext):

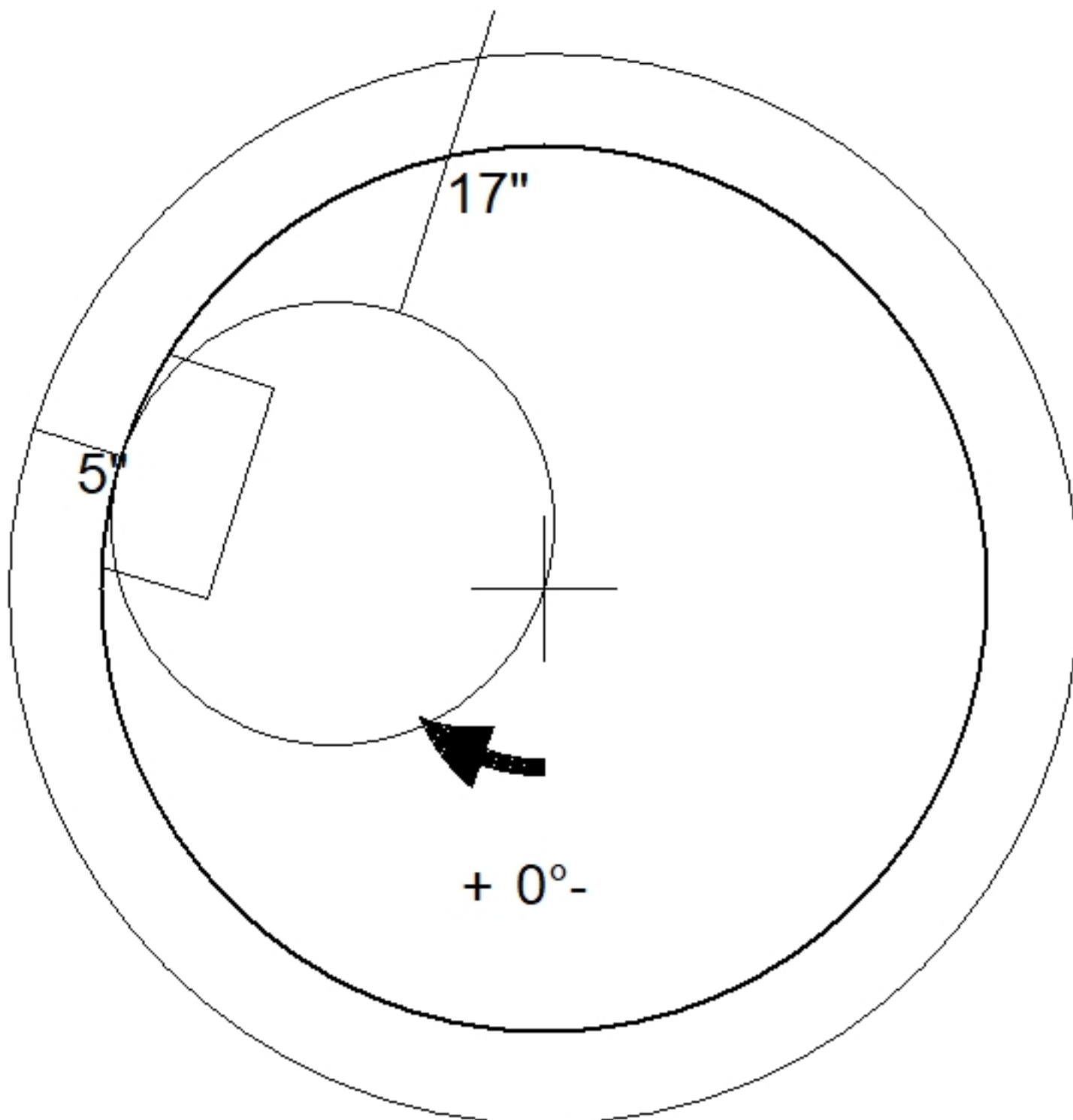
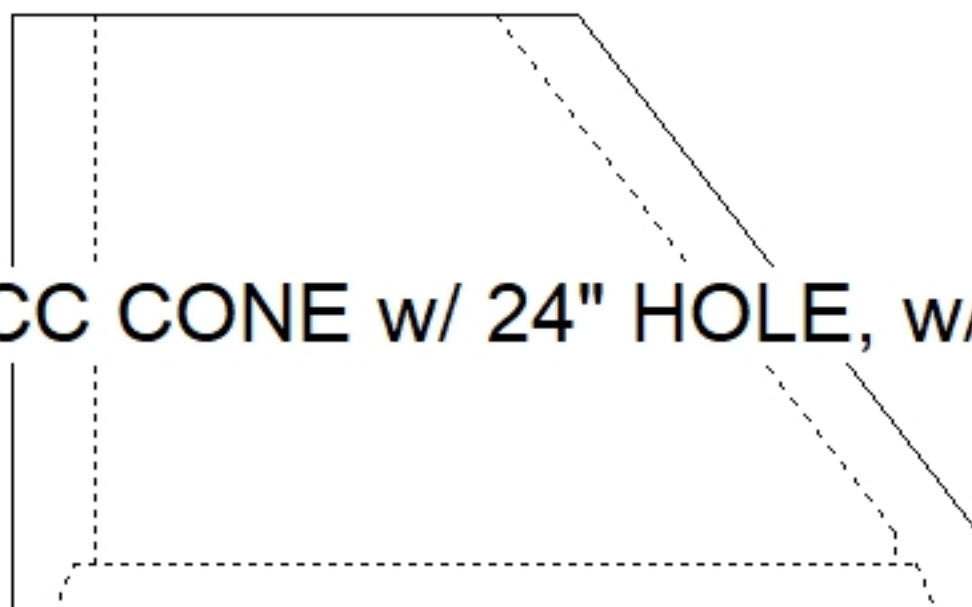
Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 12"

Weight (Net): 1561 lb
Volume (Net): 0.4cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary Job Location: Owensboro, KY Contractor: Winwater Hartford KY Co.					Plant: Beaver Dam 7/7/2026 2:11:12 PM		Tech: S. Felletter PC: A. Chambers				
Structure ID: C2 SS-MH											
P2		MH048RS60CDARED			MH RISER w/ConBlock-CDA Red T/G						
P5) 24" - CASTING HEIGHT - 7" P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) CASTING - HOE MC-315 F/C Sanitary 2) 48" - Conseal CS-102 1.00" (Double) 2) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 10) MH Step ML-10-TDS-NCR - 10"					0 lb 270 lb 2251 lb 4192 lb 3330 lb 0 lb 0 lb 1440 lb 258 lb 0 lb 0 lb 16 lb 0 lb ----- 11757 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. ADMIXTURE = CONBLOCK CDA RED. 4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY"). . REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.				
Rim: 430.96' Rim to Invert: 11.25' Slack: 0" Sump: 2" Step Position: 107.5°											
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): Coating (Ext):			Seam Up: Tongue Seam Dn: Groove		Wall Thickness: 5" Floor Height: 0"		Height (Int): 60" Height (Ext): 60"		Weight (Net): 4192 lb Volume (Net): 1.07cu.yd		

Job Name: 26-1216 Hayden Rd. Sanitary Job Location: Owensboro, KY Contractor: Winwater Hartford KY Co.		Plant: Beaver Dam 7/7/2026 2:10:40 PM	Tech: S. Felletter PC: A. Chambers	
Structure ID: C2 SS-MH P3 MH048CN36CDARED		ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G		
P5) 24" - CASTING HEIGHT - 7" P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) CASTING - HOE MC-315 F/C Sanitary 2) 48" - Conseal CS-102 1.00" (Double) 2) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 10) MH Step ML-10-TDS-NCR - 10"		0 lb 270 lb 2251 lb 4192 lb 3330 lb 0 lb 0 lb 1440 lb 258 lb 0 lb 0 lb 16 lb 0 lb ----- Structure Total: 11757 lb	Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. ADMIXTURE = CONBLOCK CDA RED. 4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY"). . REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.	
				
 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36" - (P3)				
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 36"	Weight (Net): 2251 lb Volume (Net): 0.57cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary

Job Location: Owensboro, KY

Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

7/7/2026 2:11:11 PM

Tech: S. Felletter

PC: A. Chambers

INFRASTRUCTURE

ICAST

PRECAST

Structure ID: A3 SS-MH

P2 MH048RS72CDARED

MH RISER w/ConBlock-CDA Red T/G

P5) 24" - CASTING HEIGHT - 7"

P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"

P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42"

P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 72"

P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"

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

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

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

1) CASTING - HOE MC-315 F/C Sanitary

2) 48" - Conseal CS-102 1.00" (Double)

2) 24" - Conseal CS-102 1.00" (Double)

2) PSX - 12-08 NYLO

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

0 lb

270 lb

3116 lb

5030 lb

3330 lb

0 lb

0 lb

1440 lb

258 lb

0 lb

0 lb

16 lb

0 lb

Structure Total: 13460 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. ADMIXTURE = CONBLOCK CDA RED.

4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").

.

REINFORCING PER ASTM A615 (GRADE 60).

- CONE (As .12)

- RISER/WALLS (As .12)

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

Rim: 436.48'

Rim to Invert: 12.91'

Slack: 1.92"

Sump: 2"

Step Position: 261.5°

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										

(P5)

(P4)

(P3)

(P2) <<

(P1)

RIGHT-SIDE UP VIEW (int. dimensions)

Step: 261.5°

Horz: 109.537"

+ 0°-

INSIDE WALL DIMENSIONS

0°

90°

180°

270°

360°

EXT

72"

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: Groove

Wall Thickness: 5"

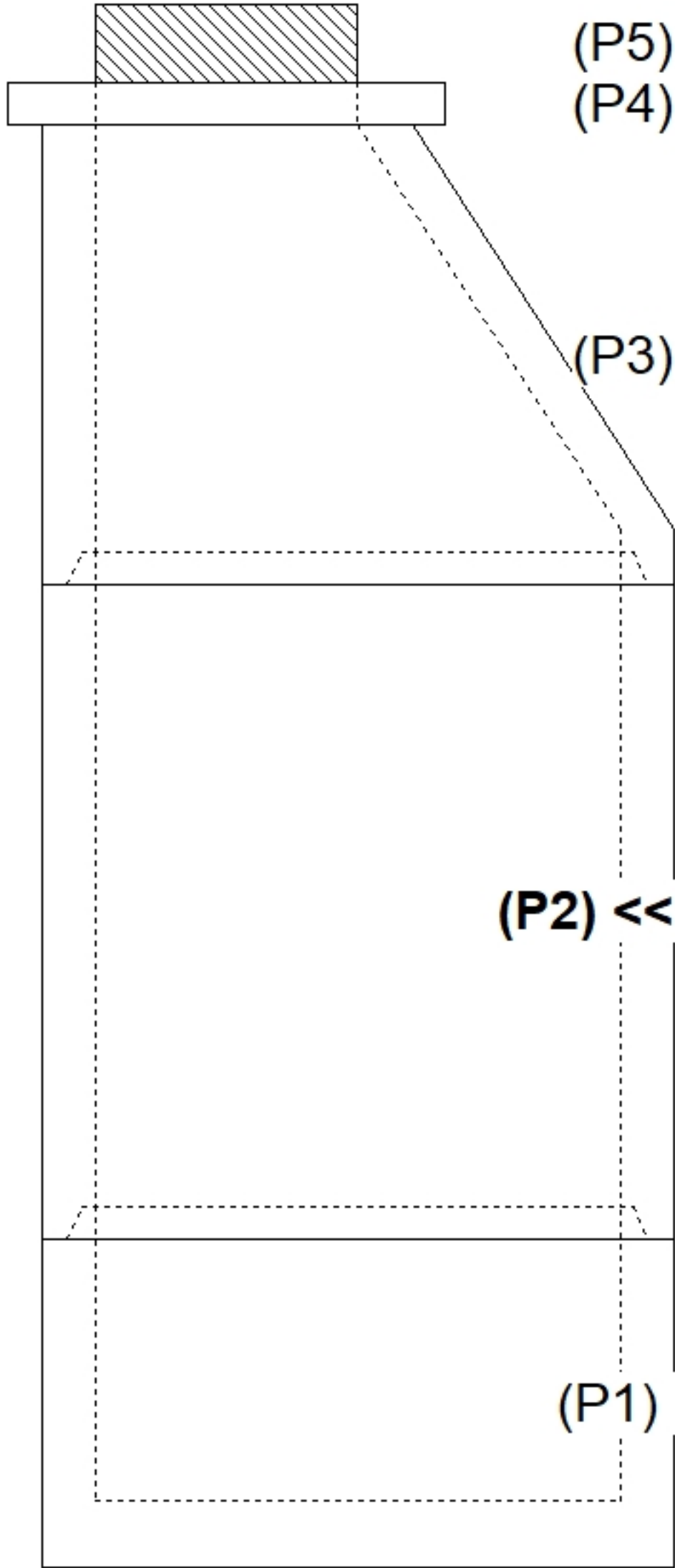
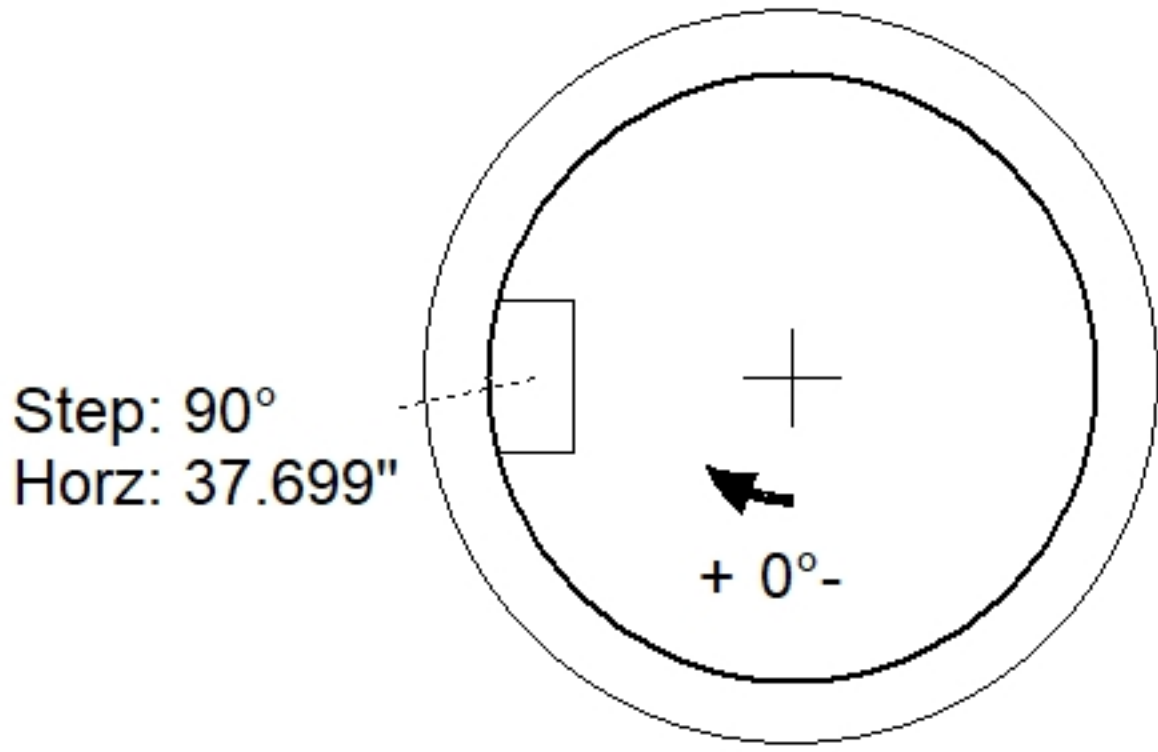
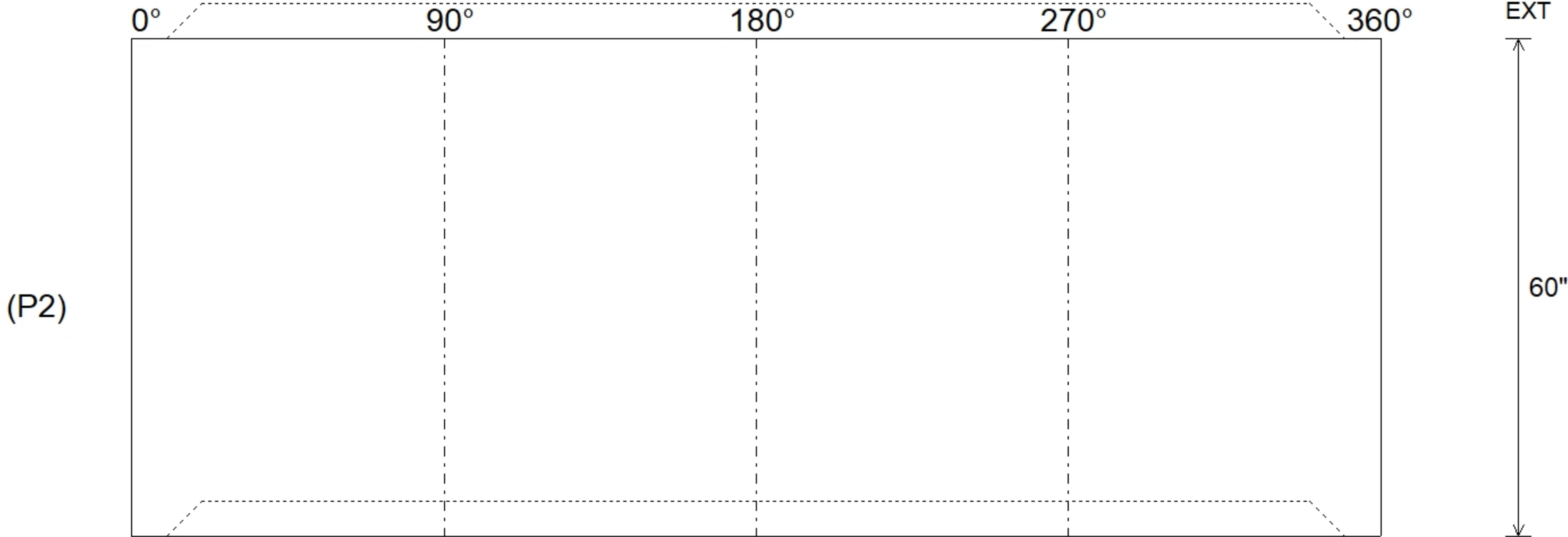
Floor Height: 0"

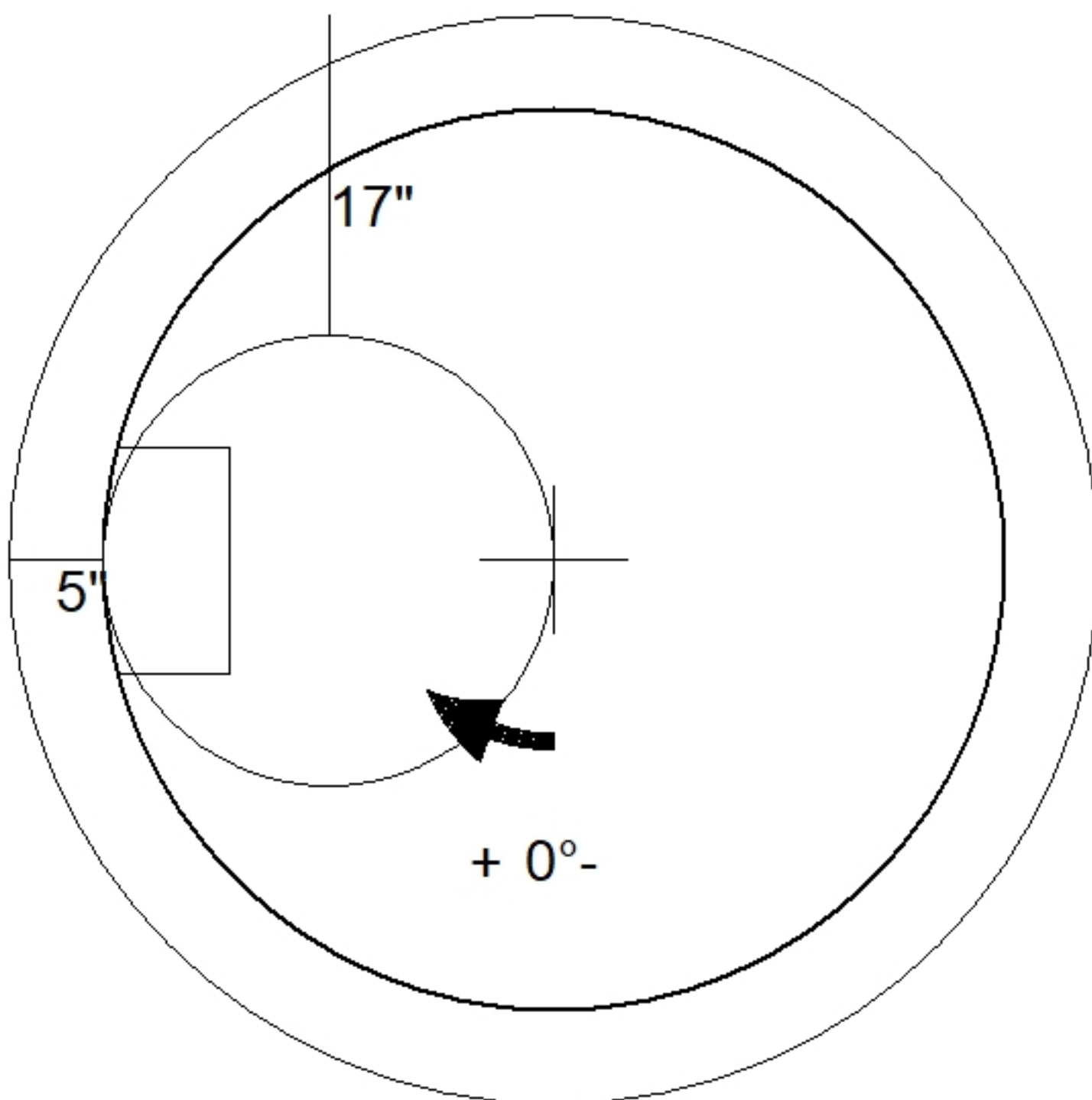
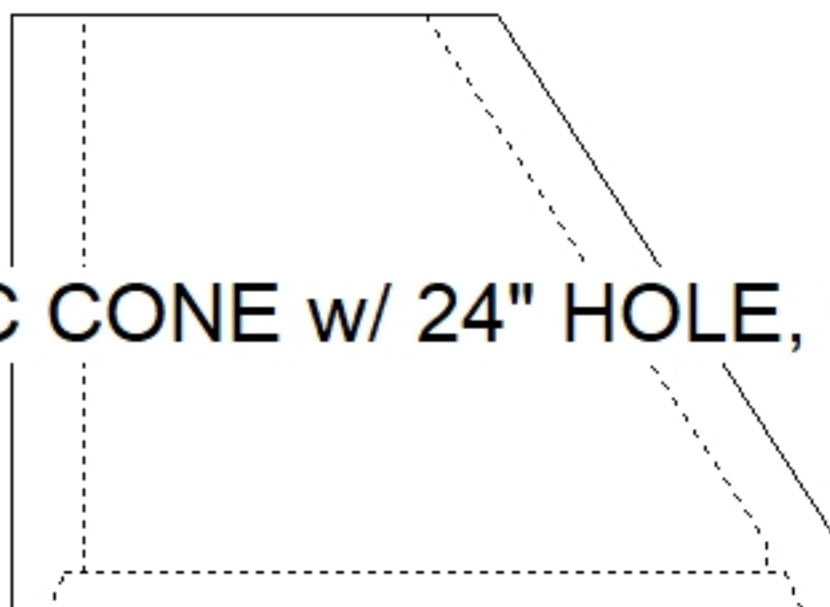
Height (Int): 72"

Height (Ext): 72"

Weight (Net): 5030 lb

Volume (Net): 1.28cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary Job Location: Owensboro, KY Contractor: Winwater Hartford KY Co.					Plant: Beaver Dam 7/7/2026 2:11:11 PM		Tech: S. Felletter PC: A. Chambers						
Structure ID: A2 SS-MH													
P2			MH048RS60CDARED			MH RISER w/ConBlock-CDA Red T/G							
P5) 24" - CASTING HEIGHT - 7" P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) CASTING - HOE MC-315 F/C Sanitary 2) 48" - Conseal CS-102 1.00" (Double) 2) 24" - Conseal CS-102 1.00" (Double) 3) PSX - 12-08 NYLO 11) MH Step ML-10-TDS-NCR - 10"						0 lb 270 lb 3116 lb 4192 lb 2863 lb 0 lb 0 lb 1440 lb 258 lb 0 lb 0 lb 24 lb 0 lb ----- 12163 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. ADMIXTURE = CONBLOCK CDA RED. 4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY"). . REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.					
Rim: 433.21' Rim to Invert: 11.32' Slack: 0.84" Sump: 2" Step Position: 90°													
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): Coating (Ext):			Seam Up: Tongue Seam Dn: Groove		Wall Thickness: 5" Floor Height: 0"		Height (Int): 60" Height (Ext): 60"		Weight (Net): 4192 lb Volume (Net): 1.07cu.yd				

Job Name: 26-1216 Hayden Rd. Sanitary Job Location: Owensboro, KY Contractor: Winwater Hartford KY Co.		Plant: Beaver Dam 7/7/2026 2:10:39 PM	Tech: S. Felletter PC: A. Chambers	
Structure ID: A2 SS-MH				
P3	MH048CN42CDARED	ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G		
P5) 24" - CASTING HEIGHT - 7" P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) CASTING - HOE MC-315 F/C Sanitary 2) 48" - Conseal CS-102 1.00" (Double) 2) 24" - Conseal CS-102 1.00" (Double) 3) PSX - 12-08 NYLO 11) MH Step ML-10-TDS-NCR - 10"			0 lb 270 lb 3116 lb 4192 lb 2863 lb 0 lb 0 lb 1440 lb 258 lb 0 lb 0 lb 24 lb 0 lb ----- Structure Total: 12163 lb	Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. ADMIXTURE = CONBLOCK CDA RED. 4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY"). . REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.
				
 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42" - (P3)				
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 42"	Weight (Net): 3116 lb Volume (Net): 0.8cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary

Job Location: Owensboro, KY

Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

7/7/2026 2:19:52 PM

Tech: S. Felletter

PC: A. Chambers



Structure ID: A1 SS-MH

P2 MH048RS36CDARED

MH RISER w/ConBlock-CDA Red T/G

P4) 24" - CASTING HEIGHT - 7"

P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"

P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 36"

P1) 48" - MH DH RISER Custom Ht, w/ConBlock-CDA Red T/F - 43"

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

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

1) CASTING - HOE MC-315 F/C Sanitary

2) 48" - Conseal CS-102 1.00" (Double)

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

2) DOGHOUSE - 12"x16"

1) PSX - 12-08 NYLO

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

0 lb

1961 lb

2515 lb

2811 lb

0 lb

0 lb

258 lb

0 lb

0 lb

0 lb

8 lb

0 lb

Structure Total: 7553 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. ADMIXTURE = CONBLOCK CDA RED.

4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").

REINFORCING PER ASTM A615 (GRADE 60).

- CONE (As .12)

- RISER/WALLS (As .12)

Rim: 429.38'

Rim to Invert: 9.36'

Slack: 0.32"

Sump: 4"

Step Position: 270°

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										

(P4)

(P3)

(P2) <<

(P1)

RIGHT-SIDE UP VIEW (int. dimensions)

+ 0°-

Step: 270°

Horz: 113.097"

INSIDE WALL DIMENSIONS

0°

90°

180°

270°

360°

(P2)

EXT

36"

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: Groove

Wall Thickness: 5"

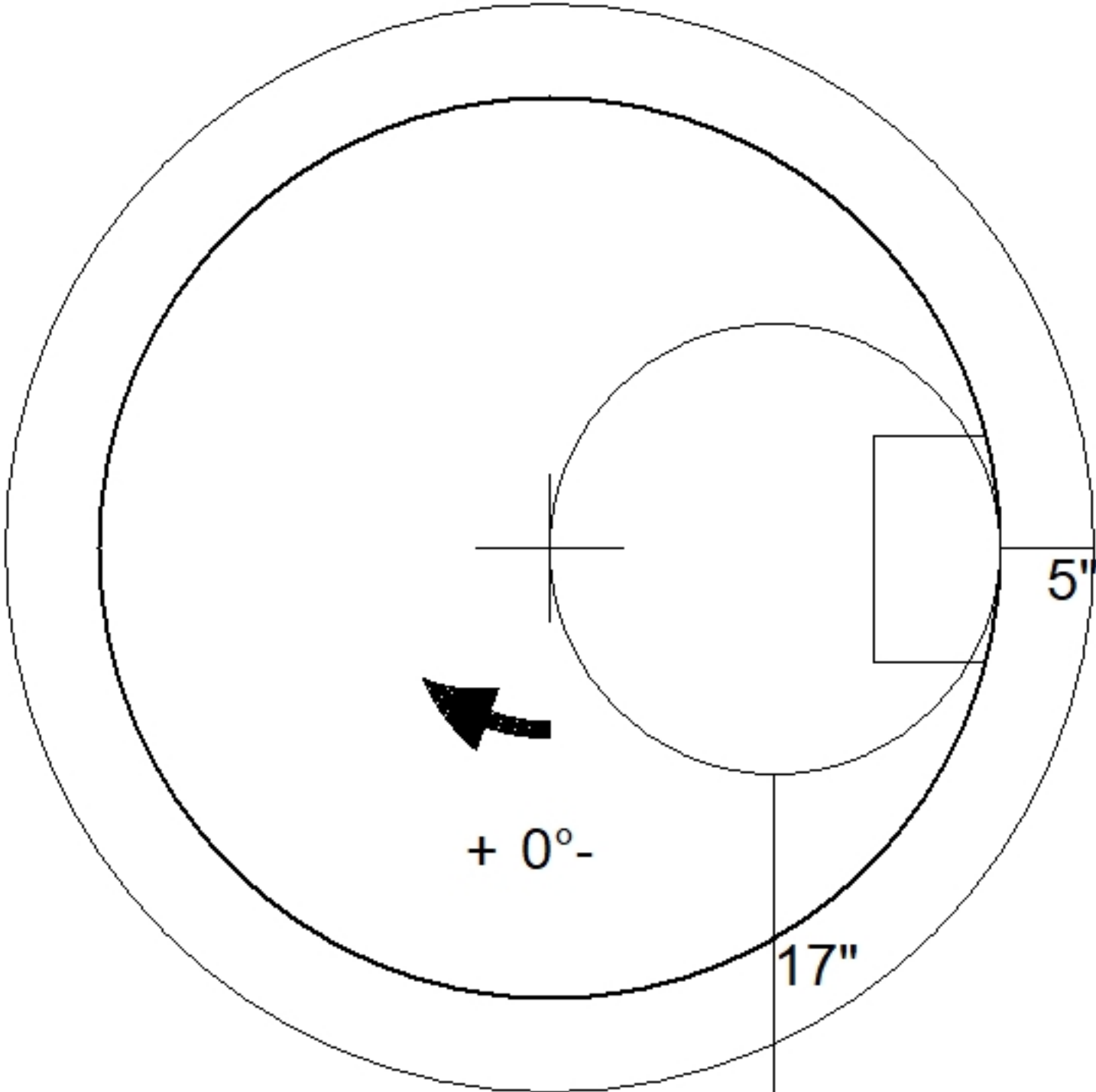
Floor Height: 0"

Height (Int): 36"

Height (Ext): 36"

Weight (Net): 2515 lb

Volume (Net): 0.64cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary Job Location: Owensboro, KY Contractor: Winwater Hartford KY Co.		Plant: Beaver Dam 7/7/2026 2:19:36 PM	Tech: S. Felletter PC: A. Chambers	
Structure ID: A1 SS-MH				
P3 MH048CN30CDARED		ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G		
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 36" P1) 48" - MH DH RISER Custom Ht, w/ConBlock-CDA Red T/F - 43" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) CASTING - HOE MC-315 F/C Sanitary 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) DOGHOUSE - 12"x16" 1) PSX - 12-08 NYLO 9) MH Step ML-10-TDS-NCR - 10"		0 lb 1961 lb 2515 lb 2811 lb 0 lb 0 lb 258 lb 0 lb 0 lb 0 lb 0 lb 8 lb 0 lb ----- 7553 lb Structure Total:	Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. ADMIXTURE = CONBLOCK CDA RED. 4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY"). . REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12)	
				
 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30" - (P3)				
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 30"	Weight (Net): 1961 lb Volume (Net): 0.5cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary
Job Location: Owensboro, KY
Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

7/7/2026 2:10:28 PM

Tech: S. Felletter
PC: A. Chambers



Structure ID: C3 SS-MH

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

P4) 24" - CASTING HEIGHT - 7"
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 48"

P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - HOE MC-315 F/C Sanitary
2) 48" - Con seal CS-102 1.00" (Double)
1) 24" - Con seal CS-102 1.00" (Double)
1) PSX - 12-08 NYLO
9) MH Step ML-10-TDS-NCR - 10"

0 lb
1961 lb
3353 lb
2959 lb
0 lb
0 lb
1440 lb
258 lb
0 lb
0 lb
8 lb
0 lb

Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

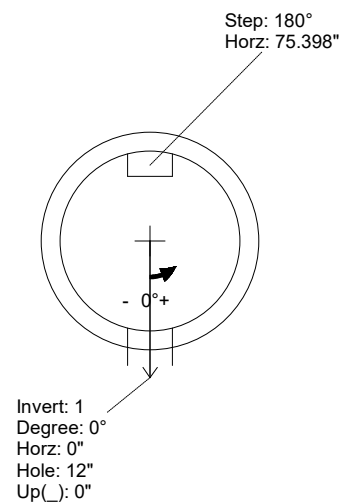
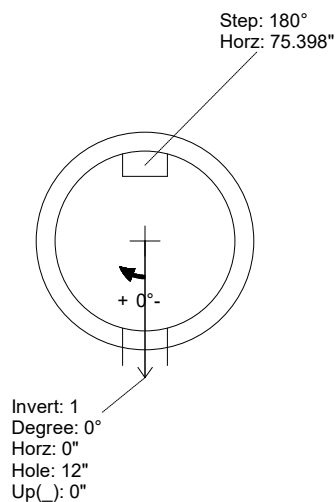
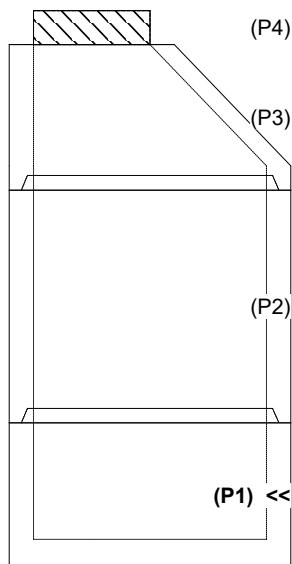
Structure Total: 9980 lb

Rim: 435.12' Rim to Invert: 8.92' Slack: 0.04" Sump: 2" Step Position: 180°

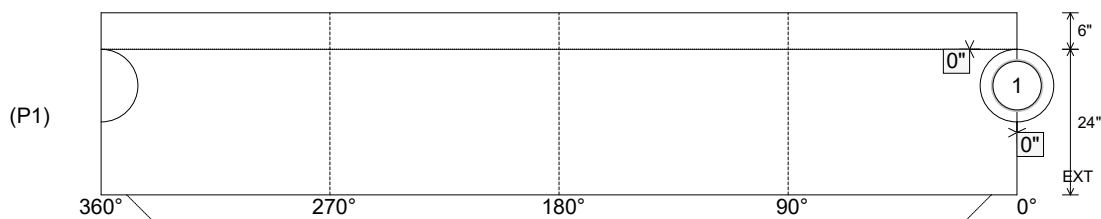
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	426.2'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



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): 2959 lb
Volume (Net): 0.76cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary
Job Location: Owensboro, KY
Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

7/7/2026 2:10:28 PM

Tech: S. Felletter
PC: A. Chambers



Structure ID: C3 SS-MH

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 7"
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 48"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - HOE MC-315 F/C Sanitary
2) 48" - Con Seal CS-102 1.00" (Double)
1) 24" - Con Seal CS-102 1.00" (Double)
1) PSX - 12-08 NYLO
9) MH Step ML-10-TDS-NCR - 10"

- Structure Notes: .
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Structure Total: 9980 lb

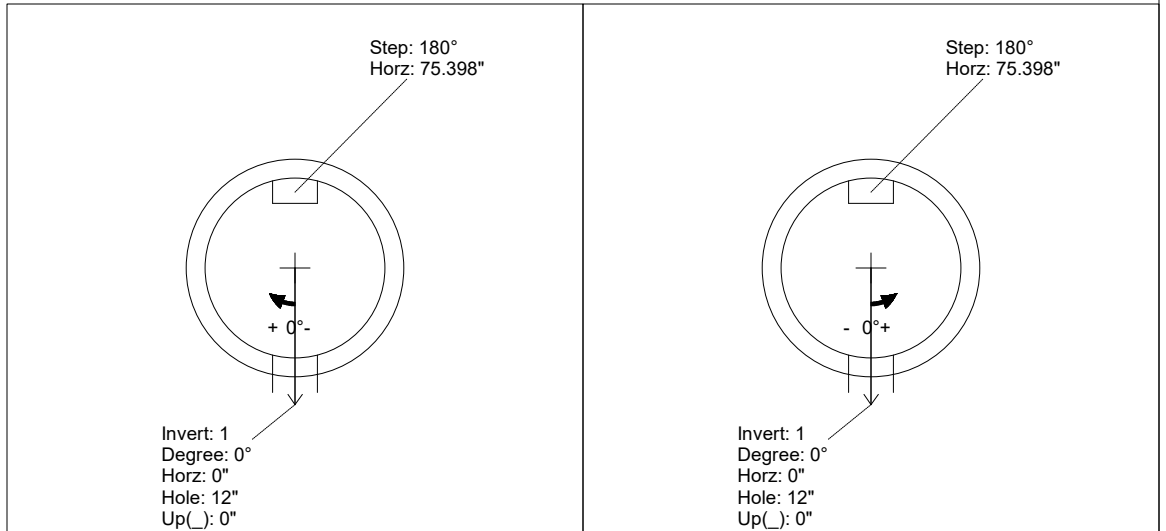
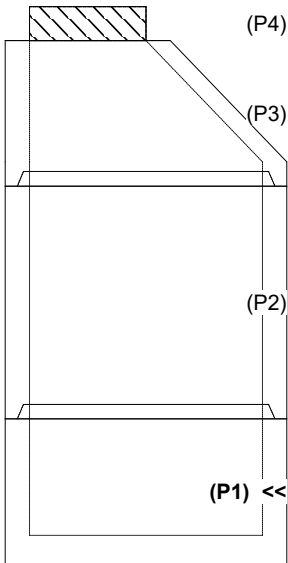
Invert channel drawing
Full height invert

Rim: 435.12' Rim to Invert: 8.92' Slack: 0.04" Sump: 2" Step Position: 180°

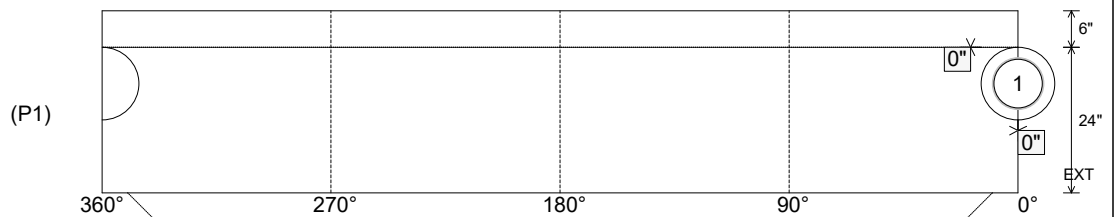
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	426.2'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



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): 2959 lb
Volume (Net): 0.76cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary

Job Location: Owensboro, KY

Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

7/7/2026 2:11:12 PM

Tech: S. Felletter

PC: A. Chambers



Structure ID: C3 SS-MH

P2 MH048RS48CDARED

MH RISER w/ConBlock-CDA Red T/G

P4) 24" - CASTING HEIGHT - 7"

P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"

P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 48"

P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"

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

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

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

1) CASTING - HOE MC-315 F/C Sanitary

2) 48" - Conseal CS-102 1.00" (Double)

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

1) PSX - 12-08 NYLO

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

0 lb

1961 lb

3353 lb

2959 lb

0 lb

0 lb

1440 lb

258 lb

0 lb

0 lb

8 lb

0 lb

Structure Total: 9980 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. ADMIXTURE = CONBLOCK CDA RED.

4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").

REINFORCING PER ASTM A615 (GRADE 60).

- CONE (As .12)

- RISER/WALLS (As .12)

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

Rim: 435.12'

Rim to Invert: 8.92'

Slack: 0.04"

Sump: 2"

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										

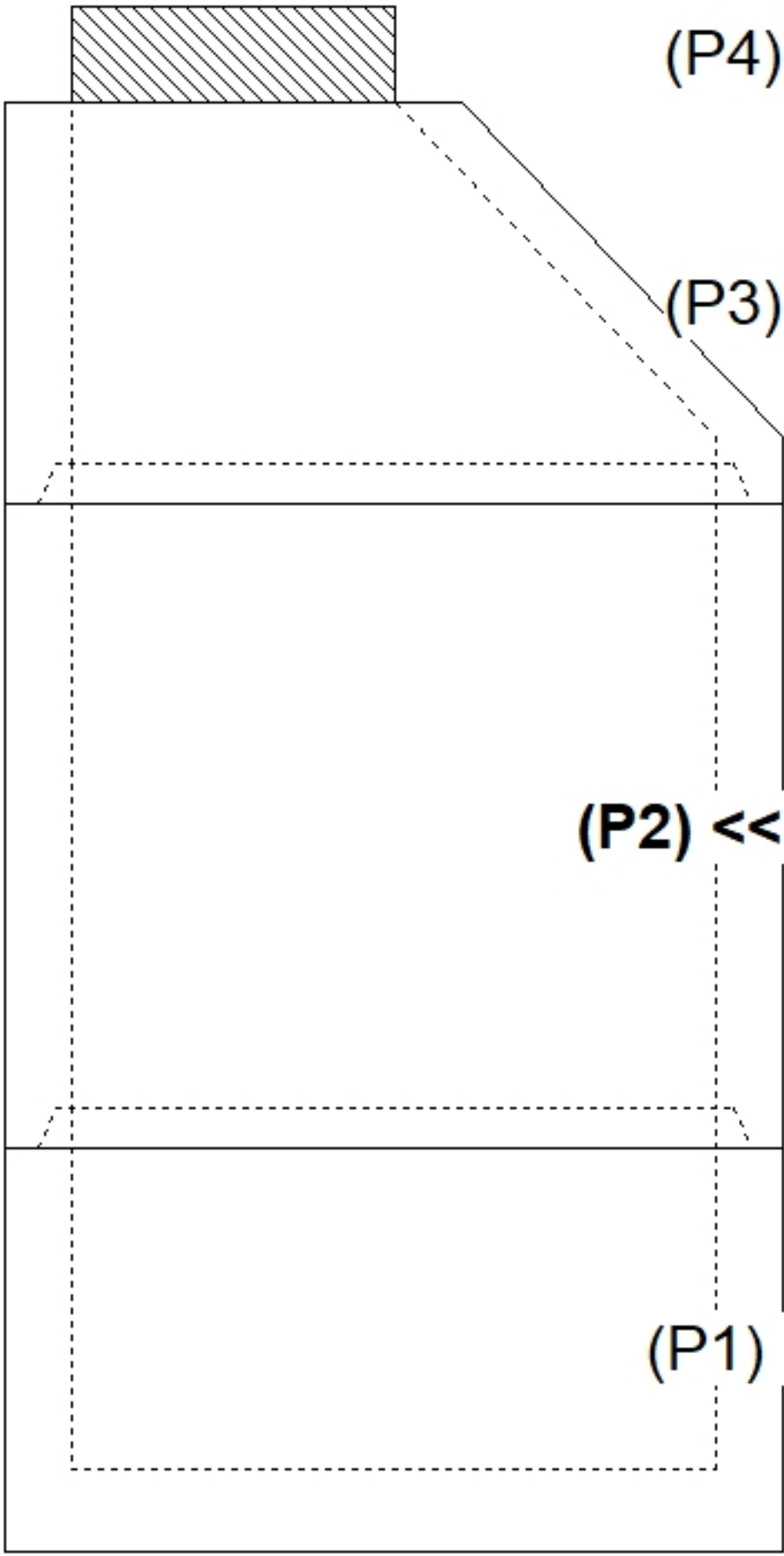
RIGHT-SIDE UP VIEW (int. dimensions)

(P4)

(P3)

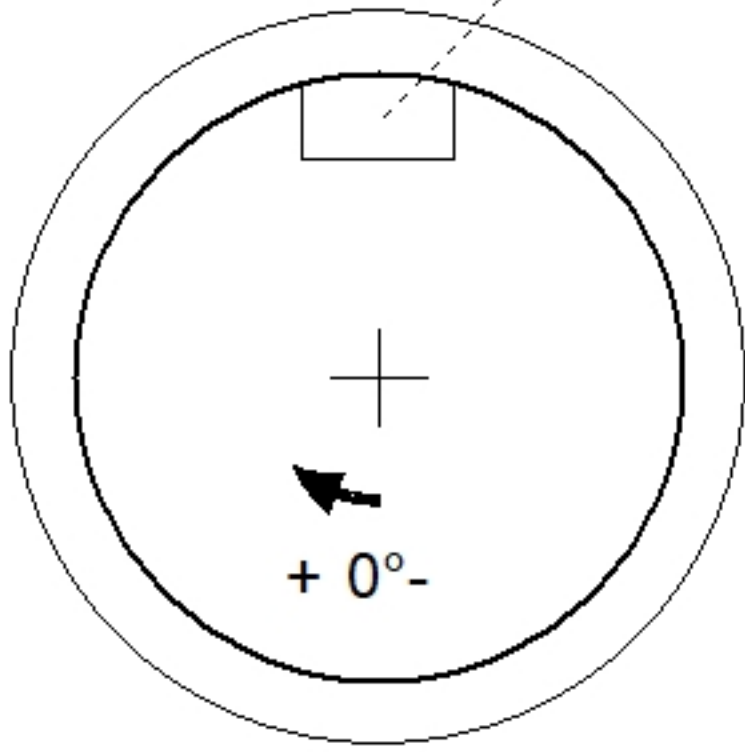
(P2) <<

(P1)



Step: 180°

Horz: 75.398"



INSIDE WALL DIMENSIONS

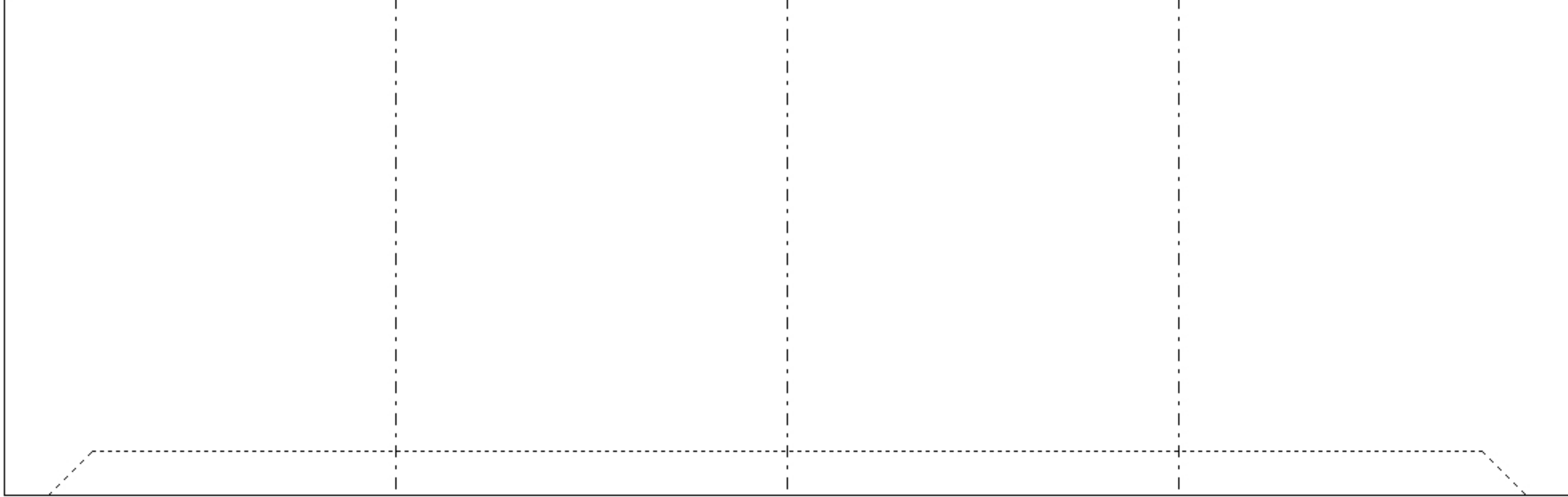
0°

90°

180°

270°

360°



EXT

48"

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: Groove

Wall Thickness: 5"

Floor Height: 0"

Height (Int): 48"

Height (Ext): 48"

Weight (Net): 3353 lb

Volume (Net): 0.86cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary
Job Location: Owensboro, KY
Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

Tech: S. Felletter

7/7/2026 2:10:27 PM

PC: A. Chambers



Structure ID: C2 SS-MH

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P5) 24" - CASTING HEIGHT - 7"
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - HOE MC-315 F/C Sanitary
2) 48" - Conseal CS-102 1.00" (Double)
2) 24" - Conseal CS-102 1.00" (Double)
2) PSX - 12-08 NYLO
10) MH Step ML-10-TDS-NCR - 10"

- Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

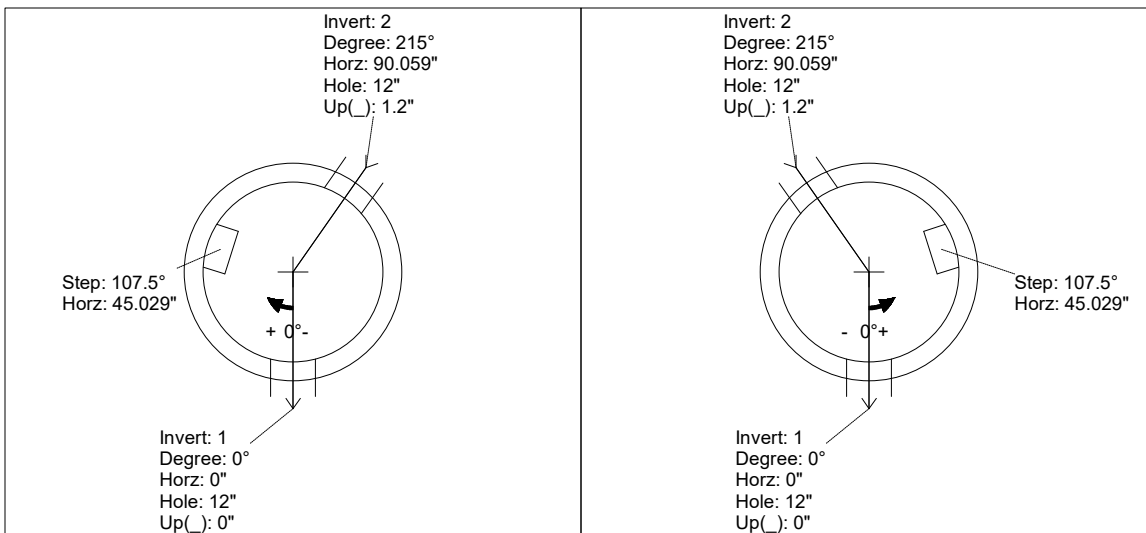
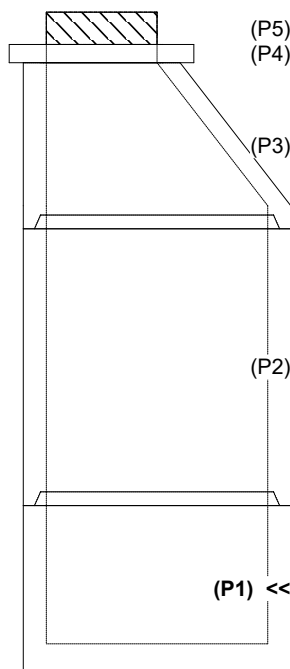
Structure Total: 11757 lb

Rim: 430.96' Rim to Invert: 11.25' Slack: 0" Sump: 2" Step Position: 107.5°

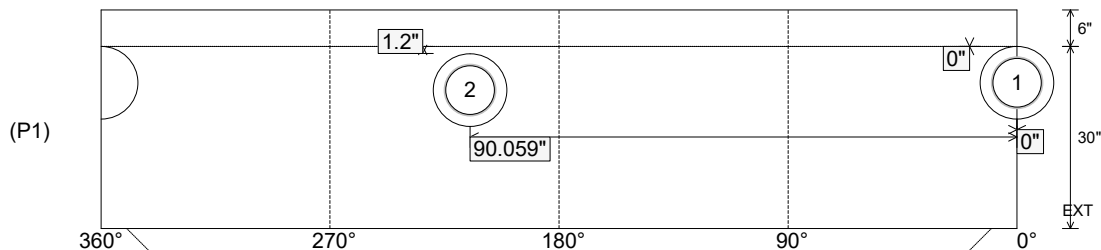
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	419.71'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	419.81'	215°	108.821"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 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): 30"
Height (Ext): 36"

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

Job Name: 26-1216 Hayden Rd. Sanitary
Job Location: Owensboro, KY
Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

Tech: S. Felletter

7/7/2026 2:10:27 PM

PC: A. Chambers



Structure ID: C2 SS-MH

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P5) 24" - CASTING HEIGHT - 7"
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - HOE MC-315 F/C Sanitary
2) 48" - Conseal CS-102 1.00" (Double)
2) 24" - Conseal CS-102 1.00" (Double)
2) PSX - 12-08 NYLO
10) MH Step ML-10-TDS-NCR - 10"

- Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

0 lb
270 lb
2251 lb
4192 lb
3330 lb
0 lb
0 lb
1440 lb
258 lb
0 lb
0 lb
16 lb
0 lb

Structure Total: 11757 lb

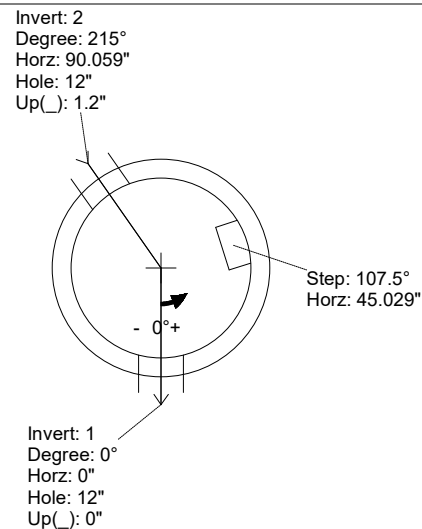
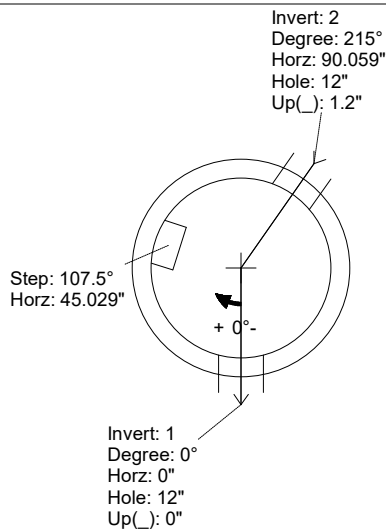
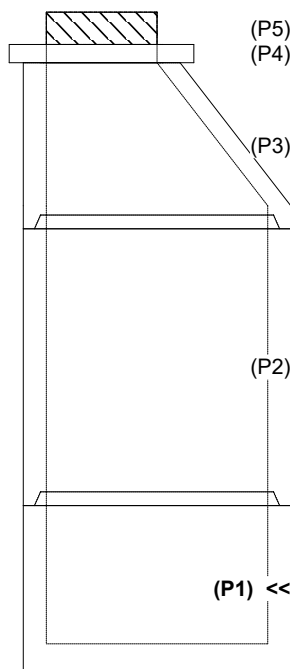
**Invert channel drawing
Full height invert**

Rim: 430.96' Rim to Invert: 11.25' Slack: 0" Sump: 2" Step Position: 107.5°

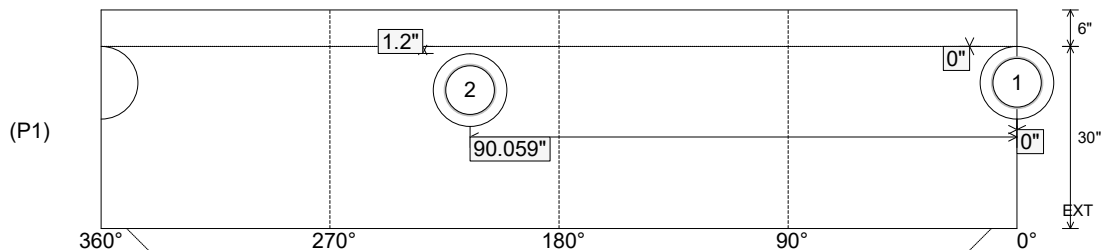
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	419.71'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	419.81'	215°	108.821"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 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): 30"
Height (Ext): 36"

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

Job Name: 26-1216 Hayden Rd. Sanitary
Job Location: Owensboro, KY
Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

7/7/2026 2:10:26 PM

Tech: S. Felletter
PC: A. Chambers



Structure ID: B2 SS-MH

P1 MH048BA18CDARED

MH BASE w/ConBlock-CDA Red T/n

P4) 24" - CASTING HEIGHT - 7"
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 24"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 48"

P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 18"

- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
- 1) CASTING - HOE MC-315 F/C Sanitary
- 2) 48" - Con seal CS-102 1.00" (Double)
- 1) 24" - Con seal CS-102 1.00" (Double)
- 1) PSX - 12-08 NYLO
- 7) MH Step ML-10-TDS-NCR - 10"

0 lb
1738 lb
3353 lb
2540 lb
0 lb
0 lb
1440 lb
258 lb
0 lb
0 lb
8 lb
0 lb

Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").

REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

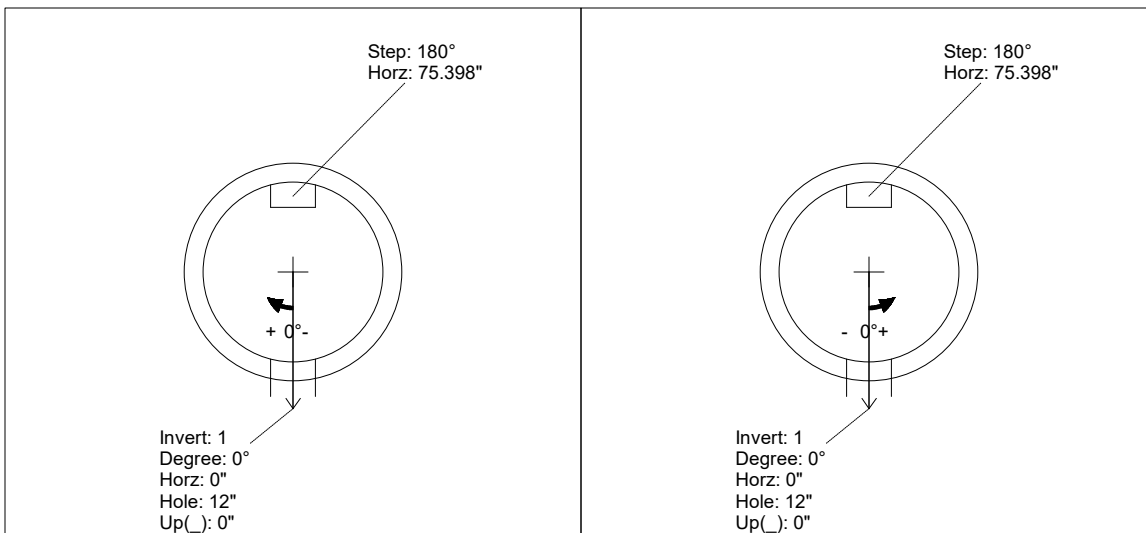
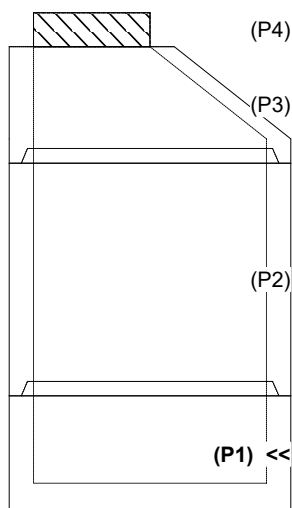
Structure Total: 9337 lb

Rim: 439.58' Rim to Invert: 8.08' Slack: 1.96" Sump: 2" Step Position: 180°

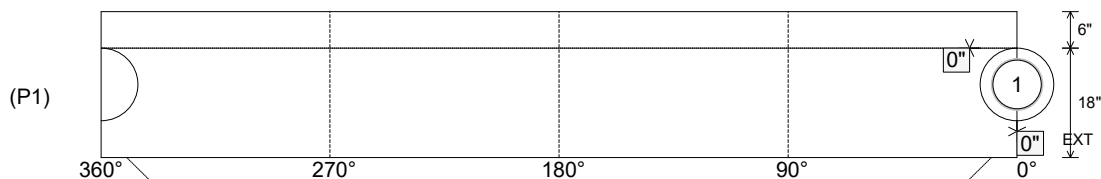
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	431.5'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 18"
Height (Ext): 24"

Weight (Net): 2540 lb
Volume (Net): 0.65cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary
Job Location: Owensboro, KY
Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

Tech: S. Felletter

7/7/2026 2:10:26 PM

PC: A. Chambers



Structure ID: B2 SS-MH

P1 MH048BA18CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 7"
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 24"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 48"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 18"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - HOE MC-315 F/C Sanitary
2) 48" - Con seal CS-102 1.00" (Double)
1) 24" - Con seal CS-102 1.00" (Double)
1) PSX - 12-08 NYLO
7) MH Step ML-10-TDS-NCR - 10"

- 0 lb
1738 lb
3353 lb
2540 lb
0 lb
0 lb
1440 lb
258 lb
0 lb
0 lb
8 lb
0 lb
- Structure Notes:**
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Structure Total: 9337 lb

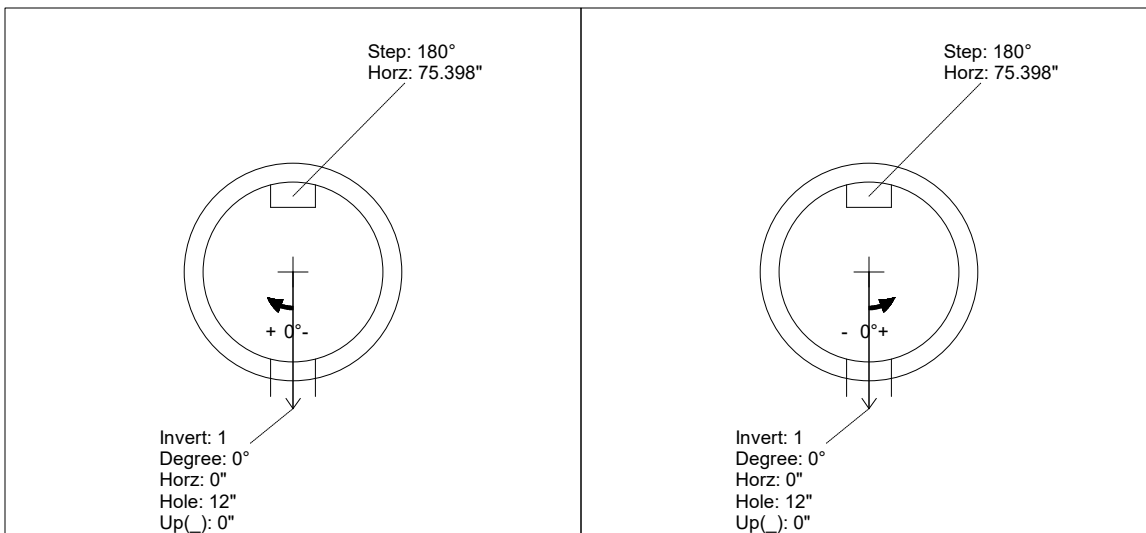
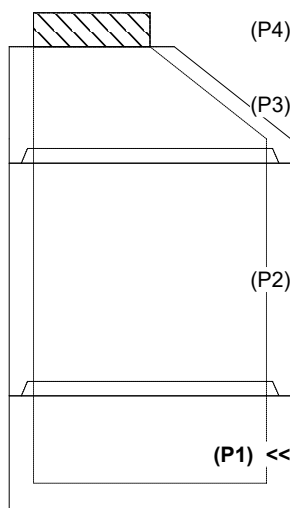
**Invert channel drawing
Full height invert**

Rim: 439.58' Rim to Invert: 8.08' Slack: 1.96" Sump: 2" Step Position: 180°

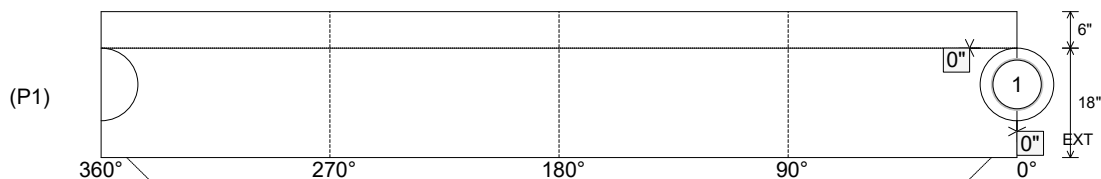
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	431.5'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 18"
Height (Ext): 24"

Weight (Net): 2540 lb
Volume (Net): 0.65cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary
Job Location: Owensboro, KY
Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

7/7/2026 2:10:26 PM

Tech: S. Felletter
PC: A. Chambers



Structure ID: A3 SS-MH

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

P5) 24" - CASTING HEIGHT - 7"
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 72"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - HOE MC-315 F/C Sanitary
2) 48" - Conseal CS-102 1.00" (Double)
2) 24" - Conseal CS-102 1.00" (Double)
2) PSX - 12-08 NYLO
12) MH Step ML-10-TDS-NCR - 10"

0 lb
270 lb
3116 lb
5030 lb
3330 lb
0 lb
0 lb
1440 lb
258 lb
0 lb
0 lb
16 lb
0 lb
Structure Total: 13460 lb

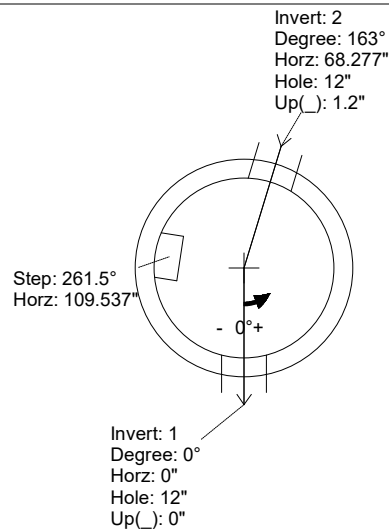
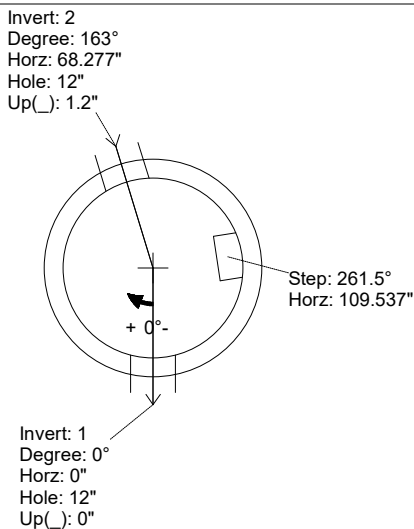
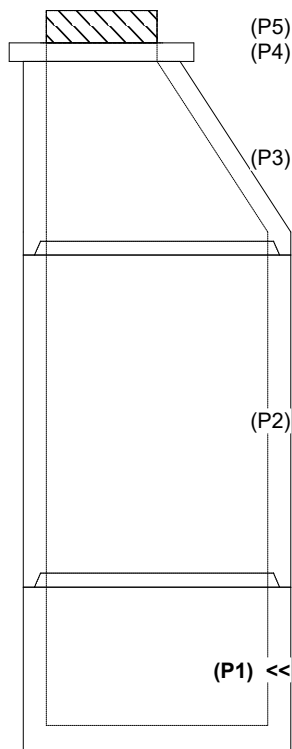
Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 436.48' Rim to Invert: 12.91' Slack: 1.92' Sump: 2" Step Position: 261.5°

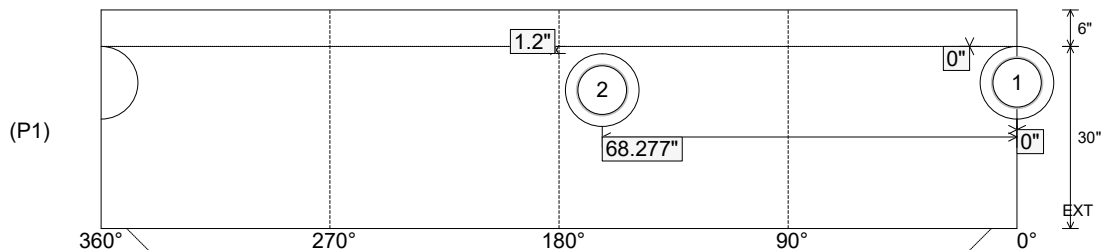
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	423.57'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	423.67'	163°	82.502"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 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): 30"
Height (Ext): 36"

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

Job Name: 26-1216 Hayden Rd. Sanitary
Job Location: Owensboro, KY
Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

7/7/2026 2:10:26 PM

Tech: S. Felletter

PC: A. Chambers



Structure ID: A3 SS-MH

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P5) 24" - CASTING HEIGHT - 7"
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 72"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - HOE MC-315 F/C Sanitary
2) 48" - Conseal CS-102 1.00" (Double)
2) 24" - Conseal CS-102 1.00" (Double)
2) PSX - 12-08 NYLO
12) MH Step ML-10-TDS-NCR - 10"

- Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

0 lb
270 lb
3116 lb
5030 lb
3330 lb
0 lb
0 lb
1440 lb
258 lb
0 lb
0 lb
16 lb
0 lb

Structure Total: 13460 lb

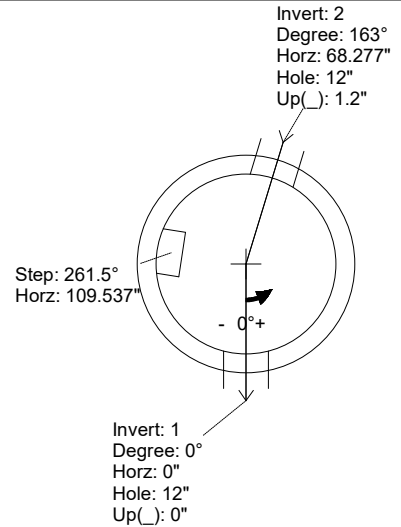
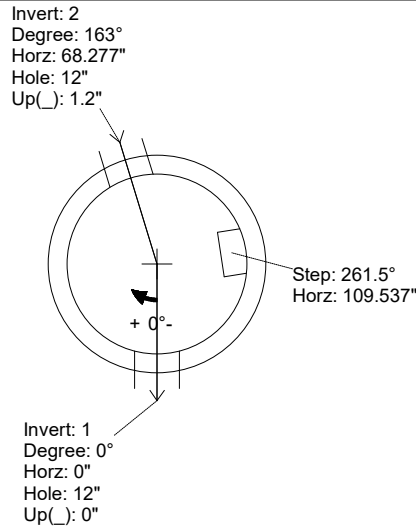
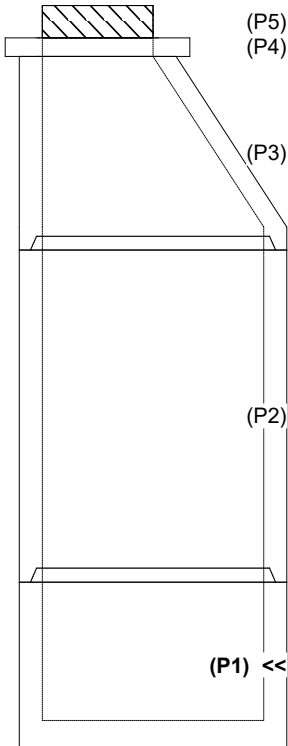
**Invert channel drawing
Full height invert**

Rim: 436.48' Rim to Invert: 12.91' Slack: 1.92" Sump: 2" Step Position: 261.5°

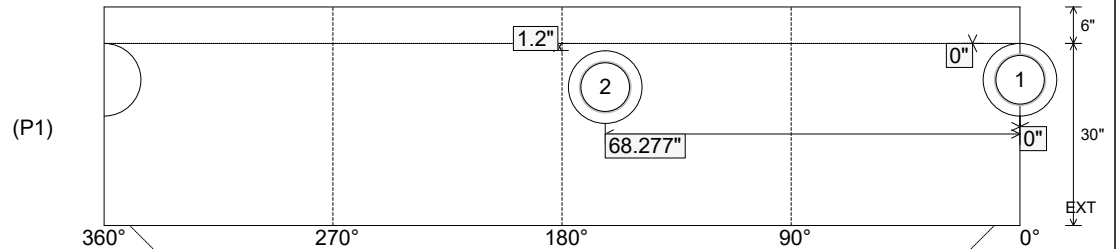
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	423.57'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	423.67'	163°	82.502"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 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): 30"
Height (Ext): 36"

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

Job Name: 26-1216 Hayden Rd. Sanitary
Job Location: Owensboro, KY
Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

7/7/2026 2:10:25 PM

Tech: S. Felletter

PC: A. Chambers



Structure ID: A2 SS-MH

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

- P5) 24" - CASTING HEIGHT - 7"
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - HOE MC-315 F/C Sanitary
2) 48" - Conseal CS-102 1.00" (Double)
2) 24" - Conseal CS-102 1.00" (Double)
3) PSX - 12-08 NYLO
11) MH Step ML-10-TDS-NCR - 10"

- Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

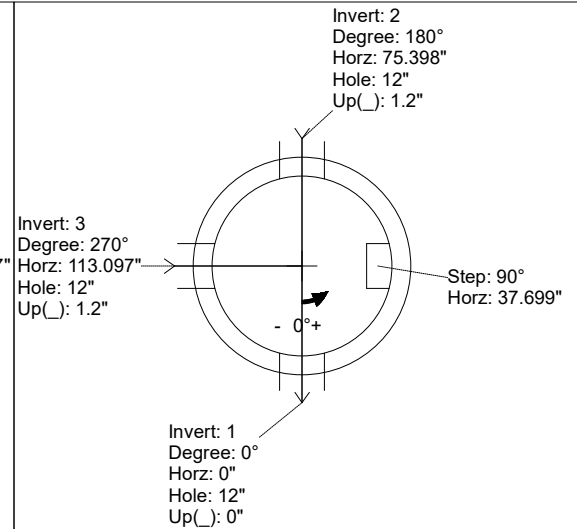
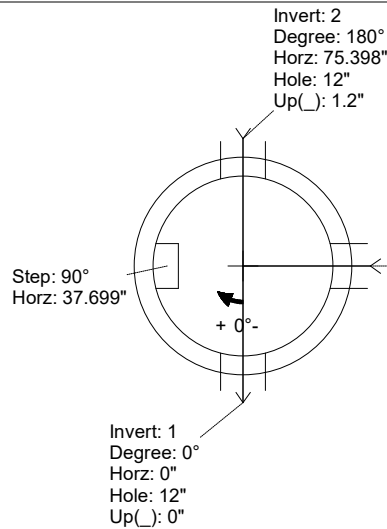
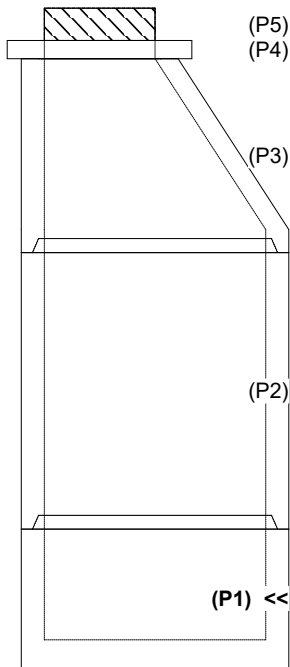
Structure Total: 12163 lb

Rim: 433.21' Rim to Invert: 11.32' Slack: 0.84" Sump: 2" Step Position: 90°

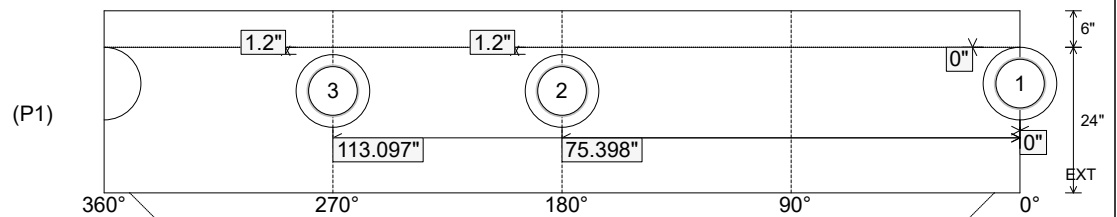
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	421.89'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	421.99'	180°	91.106"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3	421.99'	270°	136.659"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	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: 5"
Floor Height: 6"

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

Weight (Net): 2863 lb
Volume (Net): 0.73cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary
Job Location: Owensboro, KY
Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

7/7/2026 2:10:25 PM

Tech: S. Felletter

PC: A. Chambers



Structure ID: A2 SS-MH

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

- P5) 24" - CASTING HEIGHT - 7"
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42"
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) CASTING - HOE MC-315 F/C Sanitary
2) 48" - Conseal CS-102 1.00" (Double)
2) 24" - Conseal CS-102 1.00" (Double)
3) PSX - 12-08 NYLO
11) MH Step ML-10-TDS-NCR - 10"

- Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

0 lb
270 lb
3116 lb
4192 lb
2863 lb
0 lb
0 lb
1440 lb
258 lb
0 lb
0 lb
24 lb
0 lb

Structure Total: 12163 lb

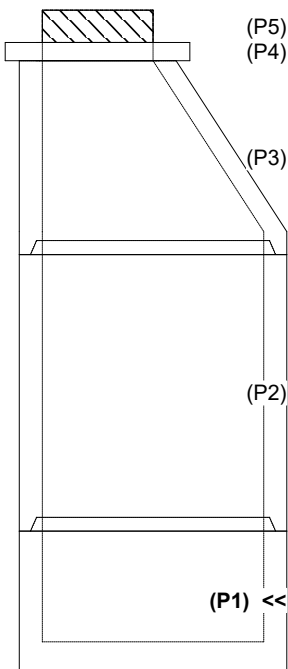
**Invert channel drawing
Full height invert**

Rim: 433.21' Rim to Invert: 11.32' Slack: 0.84" Sump: 2" Step Position: 90°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	421.89'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	421.99'	180°	91.106"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3	421.99'	270°	136.659"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



Invert: 2
Degree: 180°
Horz: 75.398"
Hole: 12"
Up(): 1.2"

Step: 90°
Horz: 37.699"

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

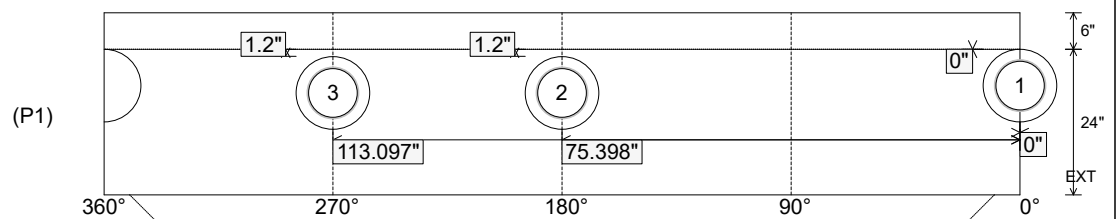
Invert: 3
Degree: 270°
Horz: 113.097"
Hole: 12"
Up(): 1.2"

Invert: 2
Degree: 180°
Horz: 75.398"
Hole: 12"
Up(): 1.2"

Invert: 3
Degree: 270°
Horz: 113.097"
Hole: 12"
Up(): 1.2"

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

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): 2863 lb
Volume (Net): 0.73cu.yd

Job Name: 26-1216 Hayden Rd. Sanitary

Job Location: Owensboro, KY

Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

7/7/2026 2:19:15 PM

Tech: S. Felletter

PC: A. Chambers

INFRASTRUCTURE

ICAST

PRECAST

Structure ID: A1 SS-MH

P1MH048DHVFCDARED

MH DH RISER Custom Ht, w/ConBlock-CDA Red T/F

P4) 24" - CASTING HEIGHT - 7"

P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"

P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 36"

P1) 48" - MH DH RISER Custom Ht, w/ConBlock-CDA Red T/F - 43"

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

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

1) CASTING - HOE MC-315 F/C Sanitary

2) 48" - Conseal CS-102 1.00" (Double)

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

2) DOGHOUSE - 12"x16"

1) PSX - 12-08 NYLO

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

0 lb

1961 lb

2515 lb

2811 lb

0 lb

0 lb

258 lb

0 lb

0 lb

0 lb

8 lb

0 lb

Structure Total: 7553 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. ADMIXTURE = CONBLOCK CDA RED.

4. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").

REINFORCING PER ASTM A615 (GRADE 60).

- CONE (As .12)

- RISER/WALLS (As .12)

Rim: 429.38'

Rim to Invert: 9.36'

Slack: 0.32"

Sump: 4"

Step Position: 270°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	420.02'	0°	0"	8" PVC SDR26	8.5"	DOGHOUSE 12"x16"	12" x 16"	12.129"	0"	0"
Invert 2	420.12'	90°	45.553"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	3.2"	0"
Invert 3	420.02'	180°	91.106"	8" PVC SDR26	8.5"	DOGHOUSE 12"x16"	12" x 16"	12.129"	0"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

(P4)

(P3)

(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

Invert: 3
Degree: 180°
Horz: 75.398"
Hole: 12" x 16"
Up(): 0"

Invert: 2
Degree: 90°
Horz: 37.699"
Hole: 12"
Up(): 3.2"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 12" x 16"
Up(): 0"

Step: 270°
Horz: 113.097"

+ 0° -

UPSIDE-DOWN VIEW (int. dimenions)

INSIDE WALL DIMENSIONS

0°

90°

180°

270°

360°

(P1) 0"

37.699"

75.398"

0"

3.2"

0"

1

2

3

EXT

43"

Coating (Int):

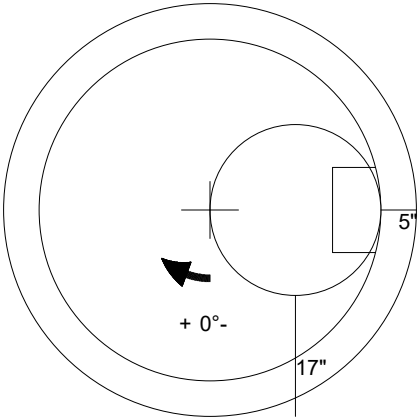
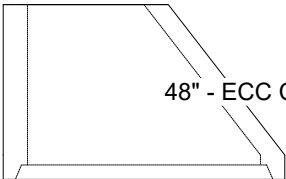
Coating (Ext):

Seam Up: Tongue
Seam Dn: Flat

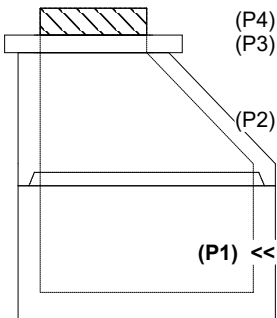
Wall Thickness: 5"
Floor Height: 0"

Height (Int): 43"
Height (Ext): 43"

Weight (Net): 2811 lb
Volume (Net): 0.72cu.yd

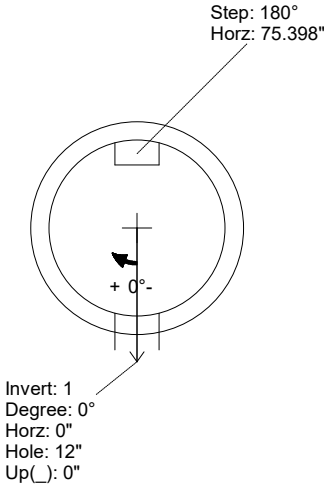
Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction		Plant: 100 3/26/2026 1:44:54 PM		Tech: Jared - F PC: E. Bradley		
Structure ID: MH-03						
P2 MH048CN36		ECC CONE w/ 24" HOLE F/G				
P3) 24" - CASTING HEIGHT - 8.85" P2) 48" - ECC CONE w/ 24" HOLE F/G - 36" P1) 48" - MH BASE Custom Ht T/n - 41" 1) CASTING - NEENAH R-1785 (F/C) 1) 48" - Conseal CS-102 1.00" 2) Hole - 24 6) MH Step ML-10-TDS-NCR - 10"		0 lb 3000 lb 3800 lb 294 lb 0 lb 0 lb 0 lb ----- 7094 lb		Structure Notes: **WVDOT STATE PROJECT** 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. INVERT CHANNEL (BY OTHERS). 4. CASTING BY I-CAST (NEENAH R-1785 (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.		
						
						
Coating (Int): Coating (Ext):		Seam Up: Flat Seam Dn: Groove		Wall Thickness: 5"		Height (Ext): 36"
						Weight (Net): 3000 lb Volume (Net): 0.5cu.yd

Job Name: 23-2309 - Richland Estates Subdivision Job Location: Portland, TN Contractor: Core & Main LP (BG)					Plant: 100 6/30/2026 8:52:28 AM		Tech: J. Horsley PC: T. Lewis				
Structure ID: 07 SS-MH											
P1 MH048BA24X			MH BASE w/XYPEX								
P4) 24" - CASTING HEIGHT - 6" P3) 24" - XYPEX GRADE RING - 4" P2) 48" - ECC XYPEX CONE w/ 24" HOLE - 30" 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) 24" - Conseal CS-102 1.00" (Double) 1) PSX - 12-08 NYLO 5) MH Step ML-10-TDS-NCR - 10"						0 lb 270 lb 1981 lb 2959 lb 0 lb 0 lb 1440 lb 0 lb 0 lb 8 lb 0 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.			
Rim: 816.99' Rim to Invert: 5.19' Slack: 0.28" Sump: 2" Step Position: 180°						Structure Total: 6658 lb					
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	811.8'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"	
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



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

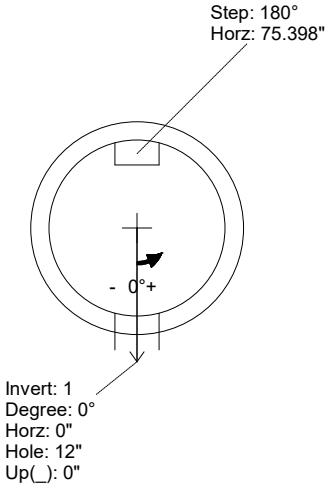
RIGHT-SIDE UP VIEW (int. dimensions)



Step: 180°
Horz: 75.398"

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

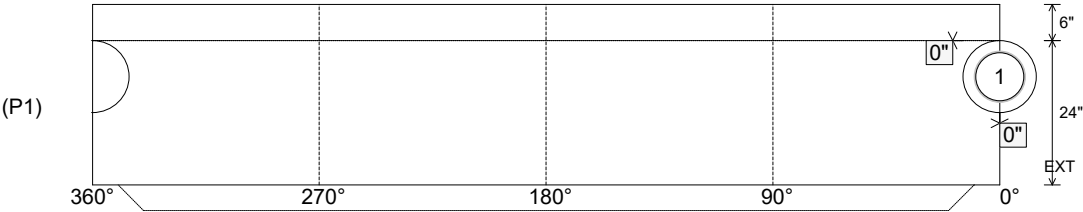
UPSIDE-DOWN VIEW (int. dimensions)



Step: 180°
Horz: 75.398"

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

INSIDE WALL DIMENSIONS



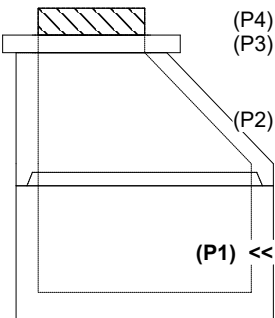
(P1)

360° 270° 180° 90° 0°

6"
24"
EXT

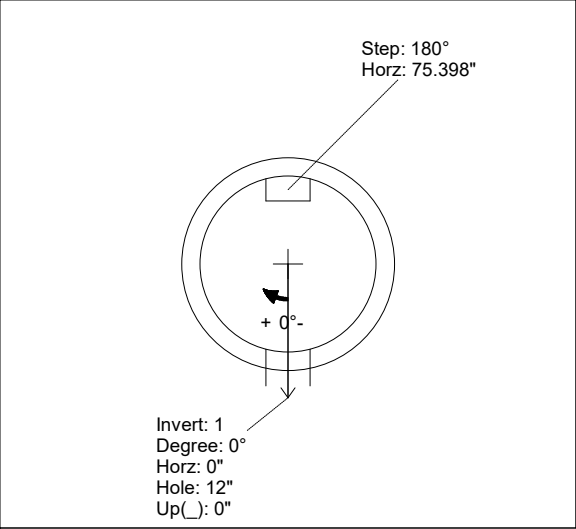
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2959 lb Volume (Net): 0.76cu.yd
----------------------------------	---------------------------------	--	--	--

Job Name: 23-2309 - Richland Estates Subdivision Job Location: Portland, TN Contractor: Core & Main LP (BG)					Plant: 100 6/30/2026 8:52:28 AM		Tech: J. Horsley PC: T. Lewis				
Structure ID: 07 SS-MH											
P1 MH048BA24X			MH BASE w/XYPEX								
P4) 24" - CASTING HEIGHT - 6" P3) 24" - XYPEX GRADE RING - 4" P2) 48" - ECC XYPEX CONE w/ 24" HOLE - 30" 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) 24" - Conseal CS-102 1.00" (Double) 1) PSX - 12-08 NYLO 5) MH Step ML-10-TDS-NCR - 10"					0 lb 270 lb 1981 lb 2959 lb 0 lb 0 lb 1440 lb 0 lb 0 lb 8 lb 0 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: 6658 lb					INVERT CHANNEL DRAWING FULL HEIGHT INVERT						
Rim: 816.99' Rim to Invert: 5.19' Slack: 0.28" Sump: 2" Step Position: 180°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	811.8'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"	
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



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

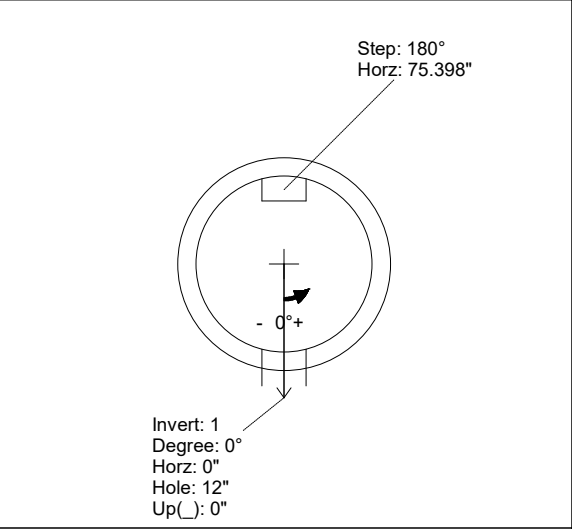
RIGHT-SIDE UP VIEW (int. dimensions)



Step: 180°
Horz: 75.398"

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

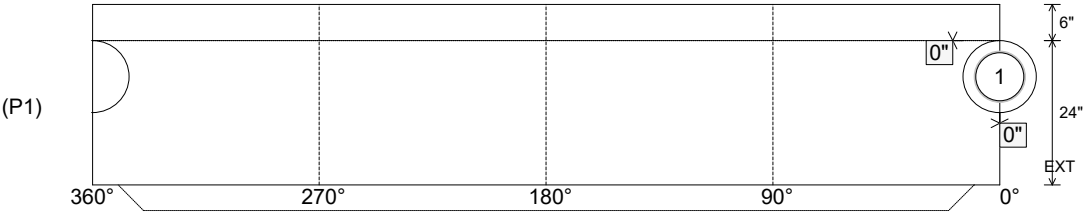
UPSIDE-DOWN VIEW (int. dimensions)



Step: 180°
Horz: 75.398"

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

INSIDE WALL DIMENSIONS



(P1)

360° 270° 180° 90° 0°

6" 24" EXT

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): 2959 lb Volume (Net): 0.76cu.yd
----------------------------------	---------------------------------	--	--	--

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

Plant: 100

6/30/2026 12:37:58 PM

Tech: J. Horsley - F

PC: C. Goff



Structure ID: B1 REV.B

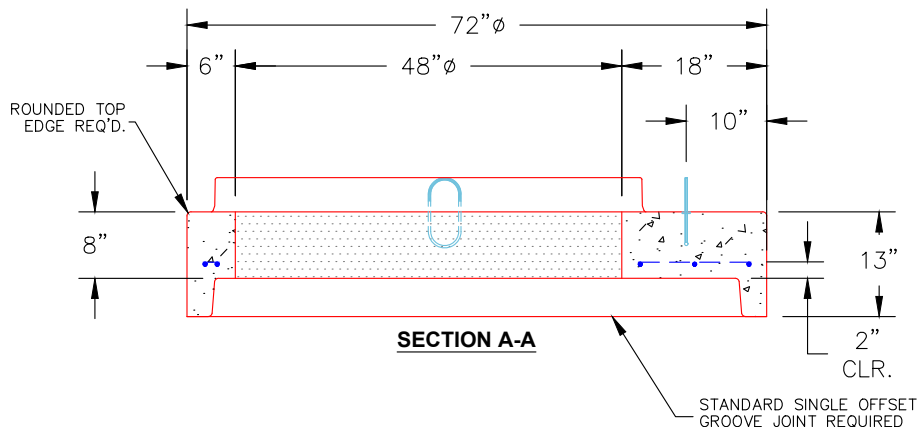
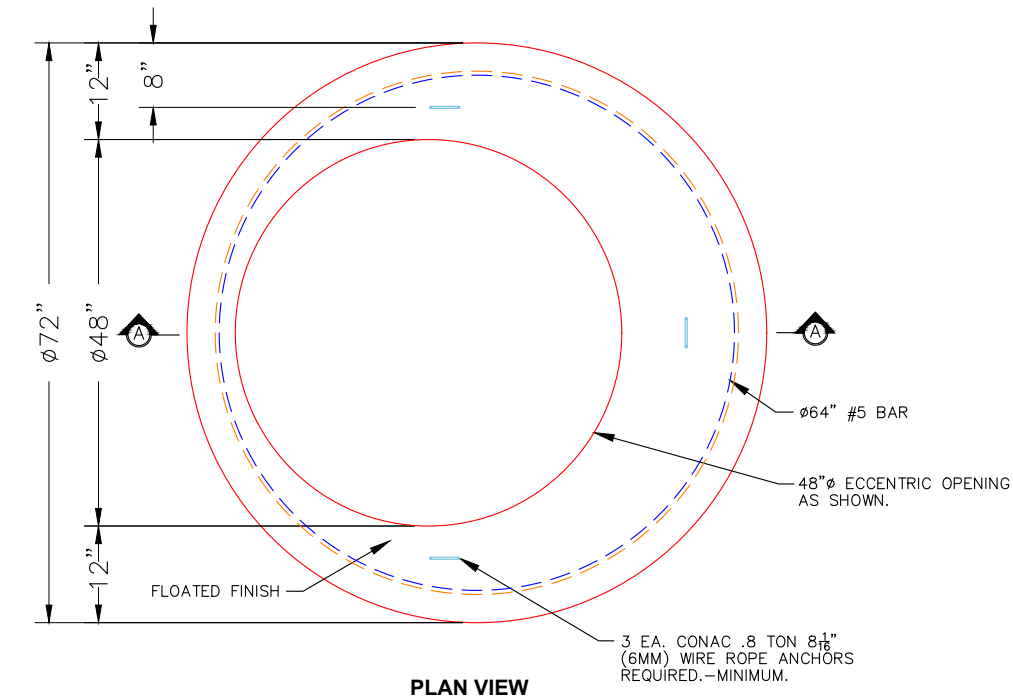
P3 MH060TS13-48ECC

MH Transition Slab 48" Hole

- 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]

Structure Total: 8223 lb

- 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)



NOTES:

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

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

Seam Up: Tongue
Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 13"

Weight (Net): 1928 lb
Volume (Net): 0.49cu.yd

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

Plant: Beaver Dam
6/1/2026 8:23:07 AM

Tech: J. Coppage
PC: C. Goff



Structure ID: CB-33

P1 MH060BAVF

MH BASE Custom Ht

- P4) 28" x 34" - CASTING HEIGHT - 7"
P3) 60" - MH FLAT TOP - TDOT NO 12 (28"x34" Hole) - 10"
P2) 60" - MH RISER NO STEPS - 36"
P1) 60" - MH BASE Custom Ht - 70"
1) CASTING - JBS-3123 MODIFIED SET
2) 60" - Conseal CS-102 1.00"
1) 28" x 34" - Conseal CS-102 1.00"
2) Hole - 40
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.

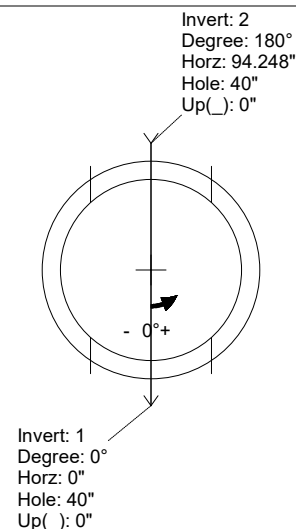
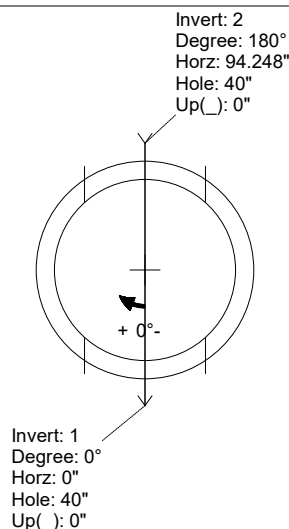
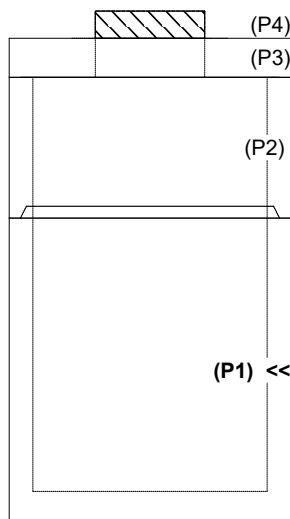
Structure Total: 16088 lb

Rim: 815.01' Rim to Invert: 9.99' Slack: 0.38" Sump: 3.5" Step Position:

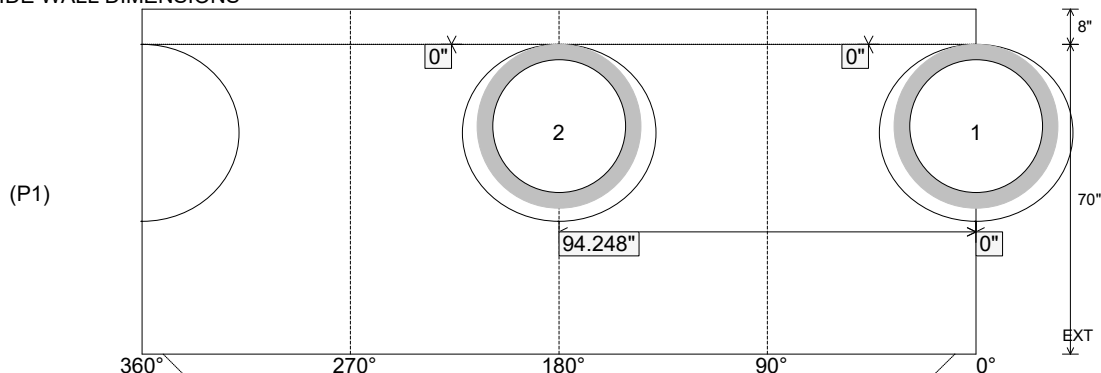
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	805.02'	0°	0"	30" RCP B WALL	37"	Hole 40	40"	43.784"	0"	0"
Invert 2	805.02'	180°	113.097"	30" RCP B WALL	37"	Hole 40	40"	43.784"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
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: 6"
Floor Height: 8"

Height (Int): 70"
Height (Ext): 78"

Weight (Net): 8677 lb
Volume (Net): 2.22cu.yd

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

Plant: Beaver Dam
6/1/2026 8:24:52 AM

Tech: J. Coppage
PC: C. Goff



Structure ID: CB-33

P2 MH060RS36S

MH RISER NO STEPS

P4) 28" x 34" - CASTING HEIGHT - 7"
P3) 60" - MH FLAT TOP - TDOT NO 12 (28"x34" Hole) - 10"
P2) 60" - MH RISER NO STEPS - 36"
P1) 60" - MH BASE Custom Ht - 70"
1) CASTING - JBS-3123 MODIFIED SET
2) 60" - Conseal CS-102 1.00"
1) 28" x 34" - Conseal CS-102 1.00"
2) Hole - 40
1) Hole - 6

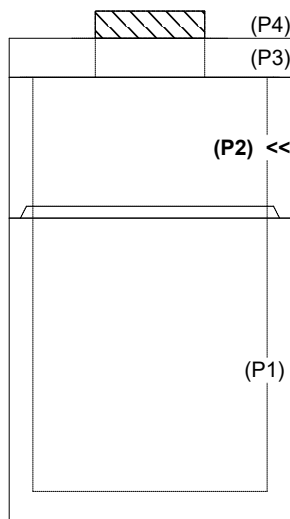
Structure Notes:
1. PER TDOT D-CB-12RB / ASTM C478 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. JBS 3123 MOD SINGLE SET BY ICAST
4. REINFORCING PER ASTM A615 (GRADE 60).
** PER TDOT STD DRAWING D-CB-12RB **
- TOP SLAB - DBL MAT #5 BARS.
- RISER (As .18)
- FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

Structure Total: 16088 lb

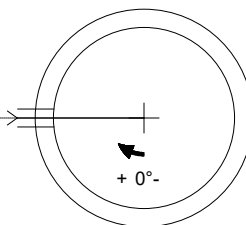
Rim: 815.01' Rim to Invert: 9.99' Slack: 0.38" Sump: 3.5" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (⌋)	Offset
Invert 1										
Invert 2										
Invert 3	812.01'	90°	56.549"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.01"	12.23"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

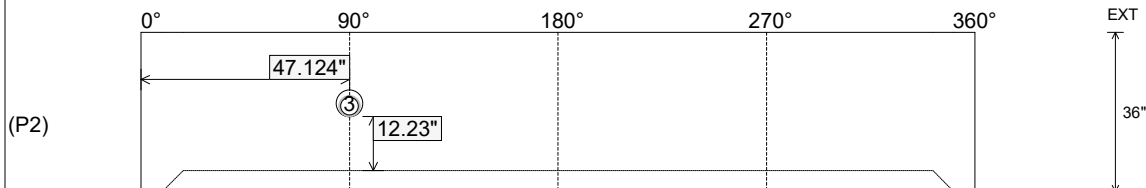
RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 3
Degree: 90°
Horz: 47.124"
Hole: 6"
Up(⌋): 12.23"



INSIDE WALL DIMENSIONS



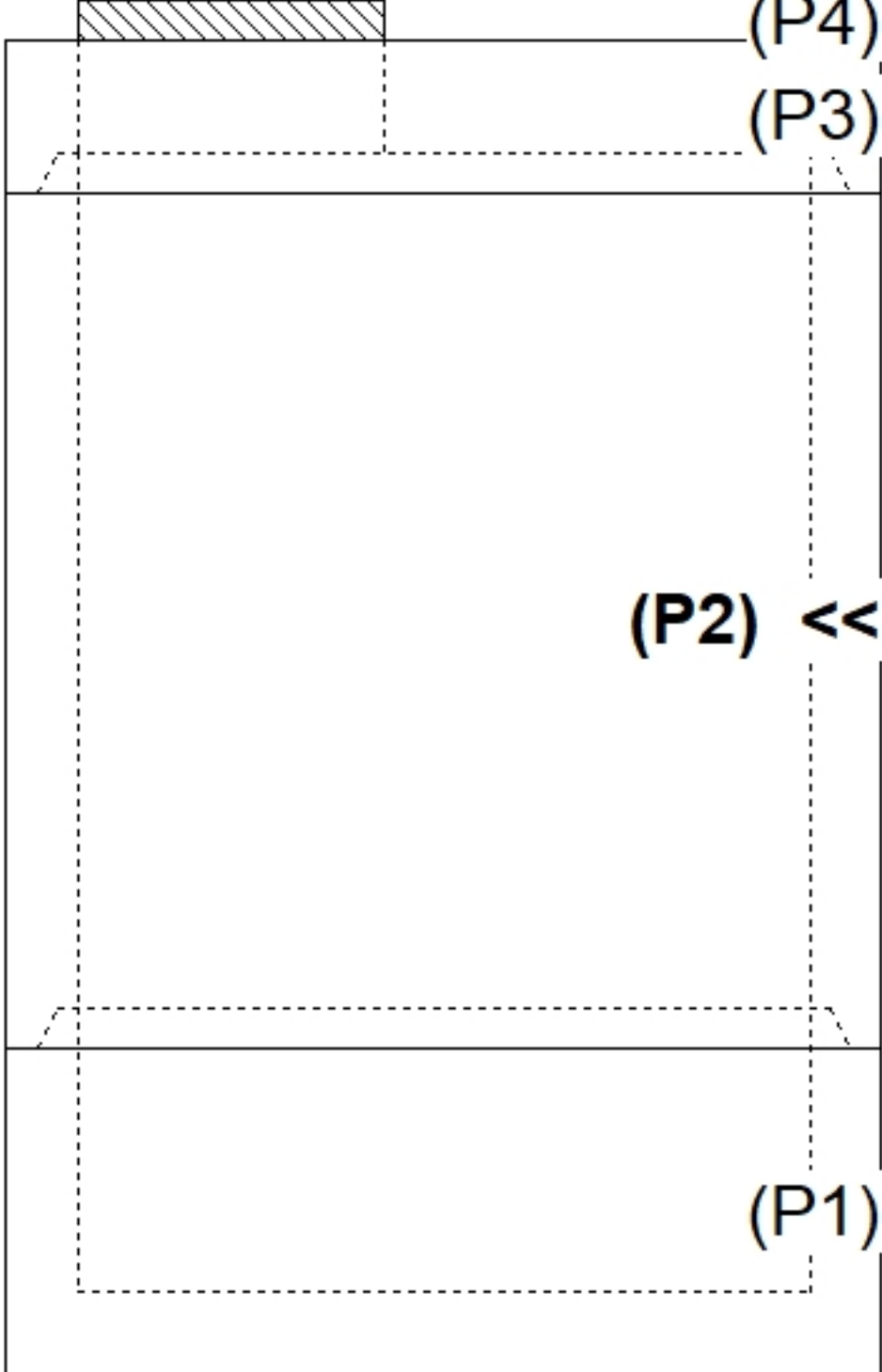
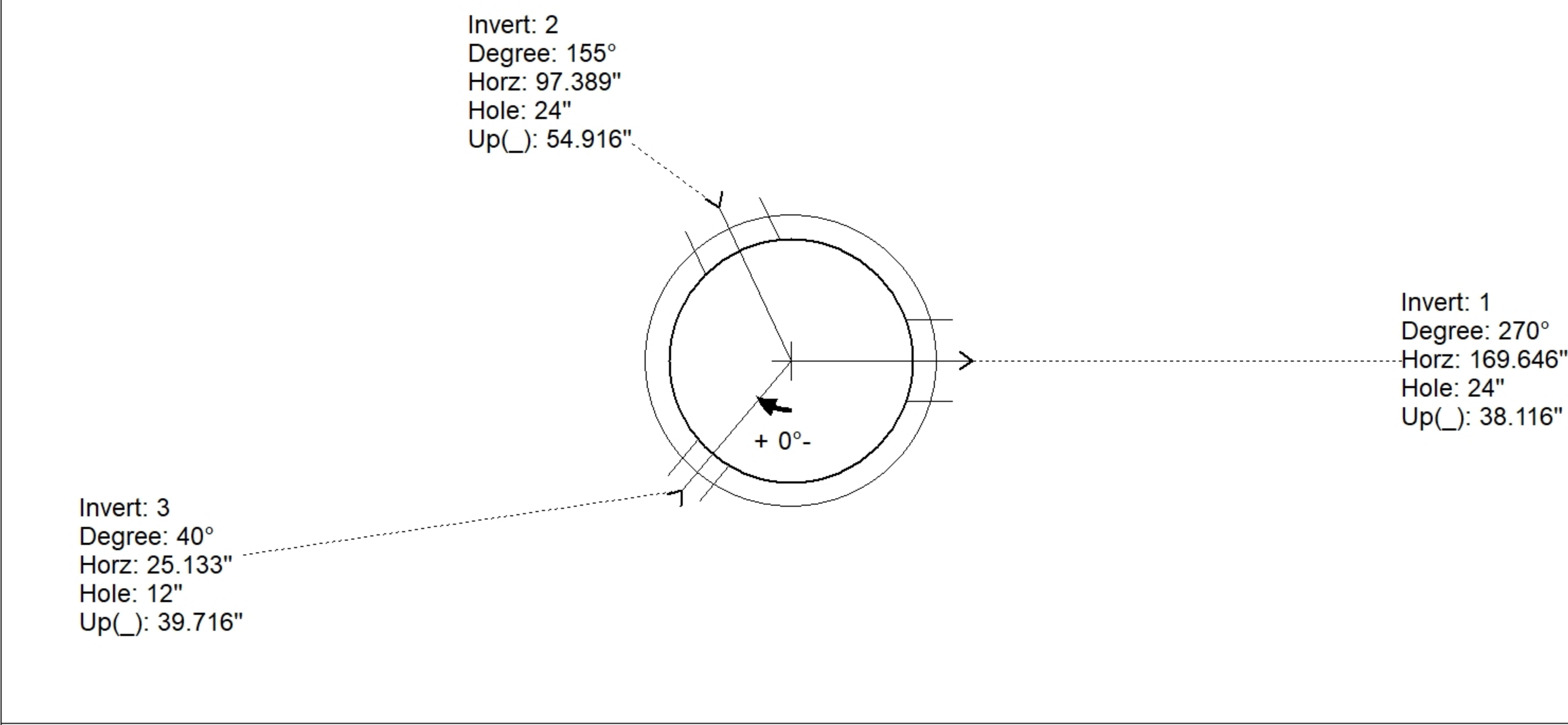
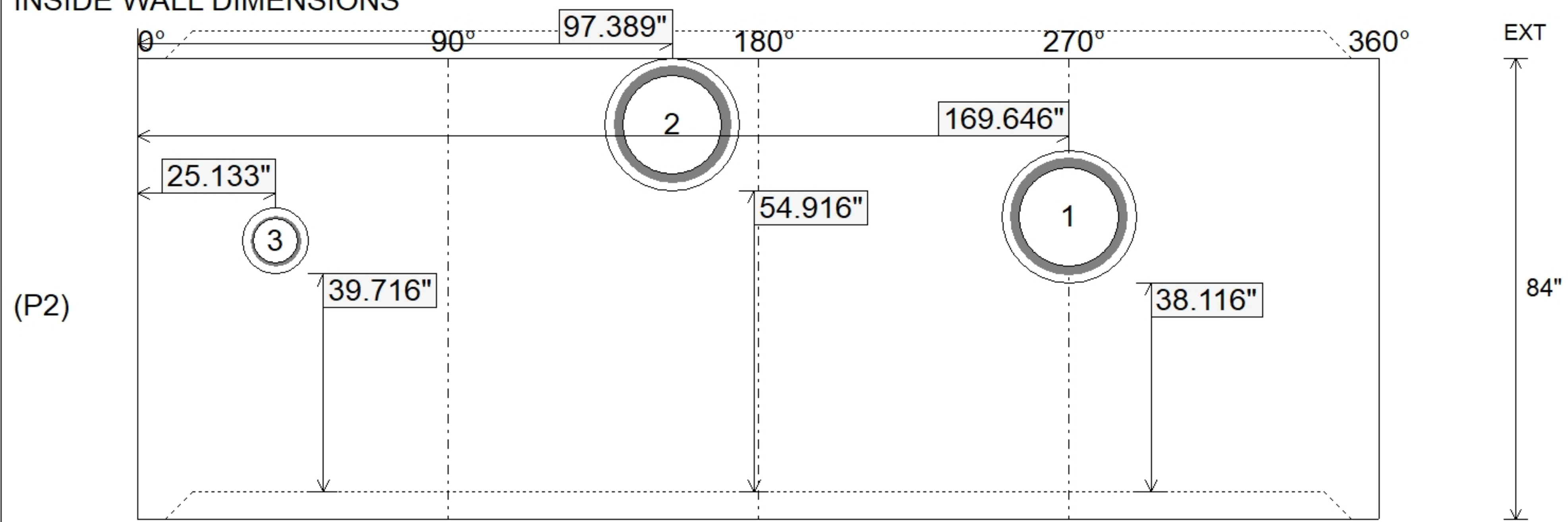
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 6"
Floor Height: 0"

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

Weight (Net): 3744 lb
Volume (Net): 0.96cu.yd

Job Name: 26-2722 863539 South Oldham High School					Plant: Beaver Dam		Tech: S. Felletter				
Job Location: Crestwood, KY					7/8/2026 9:14:23 AM		PC: C. Goff				
Contractor: Contech Engineering Solutions											
Structure ID: 25-CS-6											
P2		MH072RS84		MH RISER T/G							
P4) 30" - CASTING HEIGHT - 4" P3) 72" - MH FLAT TOP SPEC. (30" ECC HOLE) F/G - 15" P2) 72" - MH RISER T/G - 84" P1) 72" - MH BASE T/n - 24" 1) ASSEMBLY REQUIRED 1) CVSTENCILING 2) 72" - Conseal CS-102 1.00" 2) Hole - 24 1) Hole - 12					0 lb 4661 lb 11639 lb 7398 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 23698 lb		Structure Notes: 4" CASTING BY OTHERS LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE ICAST TO INSTALL THE INTERNALS CONTECH'S LOGO AS WELL AS THE INLET AND OUTLET MUST BE STENCILED ONTO THE STRUCTURE P2 RISER TO BE MECHANICALLY ATTACHED TO P1 BASE				
Rim: 762.5'		Rim to Invert: 5.5'		Slack: 9.116"		Sump: 70.116"		Step Position: 0°			
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	757'	270°	202.633"	18" HDPE	21.2"	Hole 24	24"	24.468"	38.116"	0"	
Invert 2	758.4'	155°	116.326"	18" HDPE	21.2"	Hole 24	24"	24.468"	54.916"	0"	
Invert 3	757.05'	40°	30.02"	8" HDPE	9.1"	Hole 12	12"	12.056"	39.716"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)											
											
INSIDE WALL DIMENSIONS											
											
Coating (Int):			Seam Up: Tongue		Wall Thickness: 7"		Height (Int): 84"		Weight (Net): 11639 lb		
Coating (Ext):			Seam Dn: Groove		Floor Height: 0"		Height (Ext): 84"		Volume (Net): 2.97cu.yd		

Job Name: 26-2722 863539 South Oldham High School

Job Location: Crestwood, KY

Contractor: Contech Engineering Solutions

Plant: Beaver Dam

7/8/2026 9:13:37 AM

Tech: S. Felletter

PC: C. Goff



Structure ID: 25-CS-6

P1MH072BA24MH BASE T/n

P4) 30" - CASTING HEIGHT - 4"

P3) 72" - MH FLAT TOP SPEC. (30" ECC HOLE) F/G - 15"

P2) 72" - MH RISER T/G - 84"

P1) 72" - MH BASE T/n - 24"

1) ASSEMBLY REQUIRED

1) CVSTENCILING

2) 72" - Conseal CS-102 1.00"

2) Hole - 24

1) Hole - 12

0 lb

4661 lb

11639 lb

7398 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 23698 lb

Structure Notes:

4" CASTING BY OTHERS

LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE

ICAST TO INSTALL THE INTERNALS

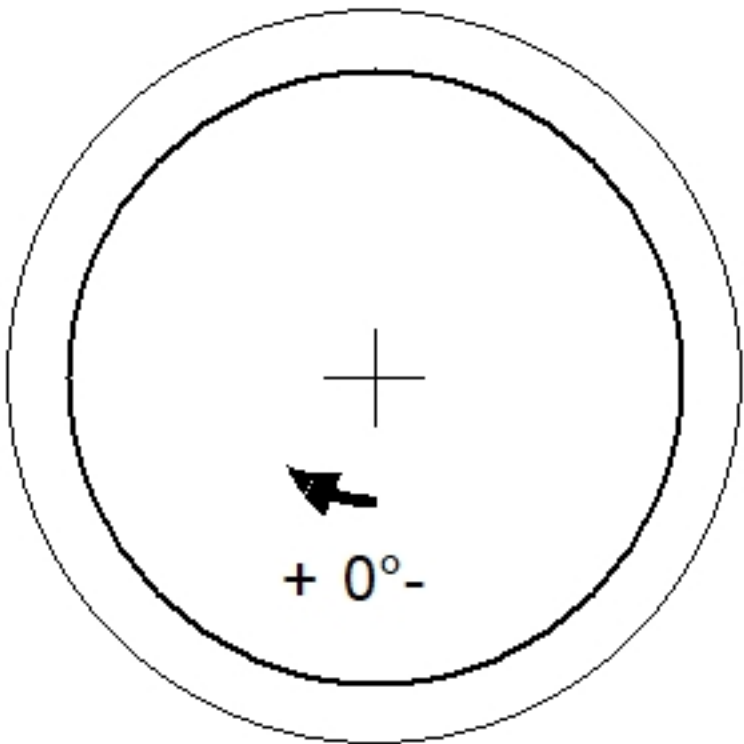
CONTECH'S LOGO AS WELL AS THE INLET AND OUTLET MUST BE STENCILED ONTO THE STRUCTURE

P2 RISER TO BE MECHANICALLY ATTACHED TO P1 BASE

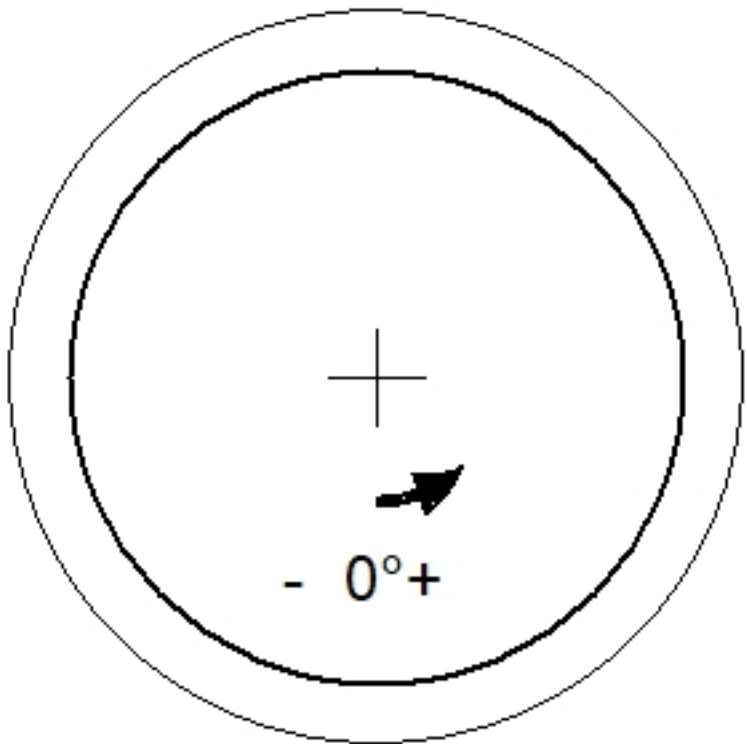
Rim: 762.5'Rim to Invert: 5.5'Slack: 9.116"Sump: 70.116"Step Position: 0°

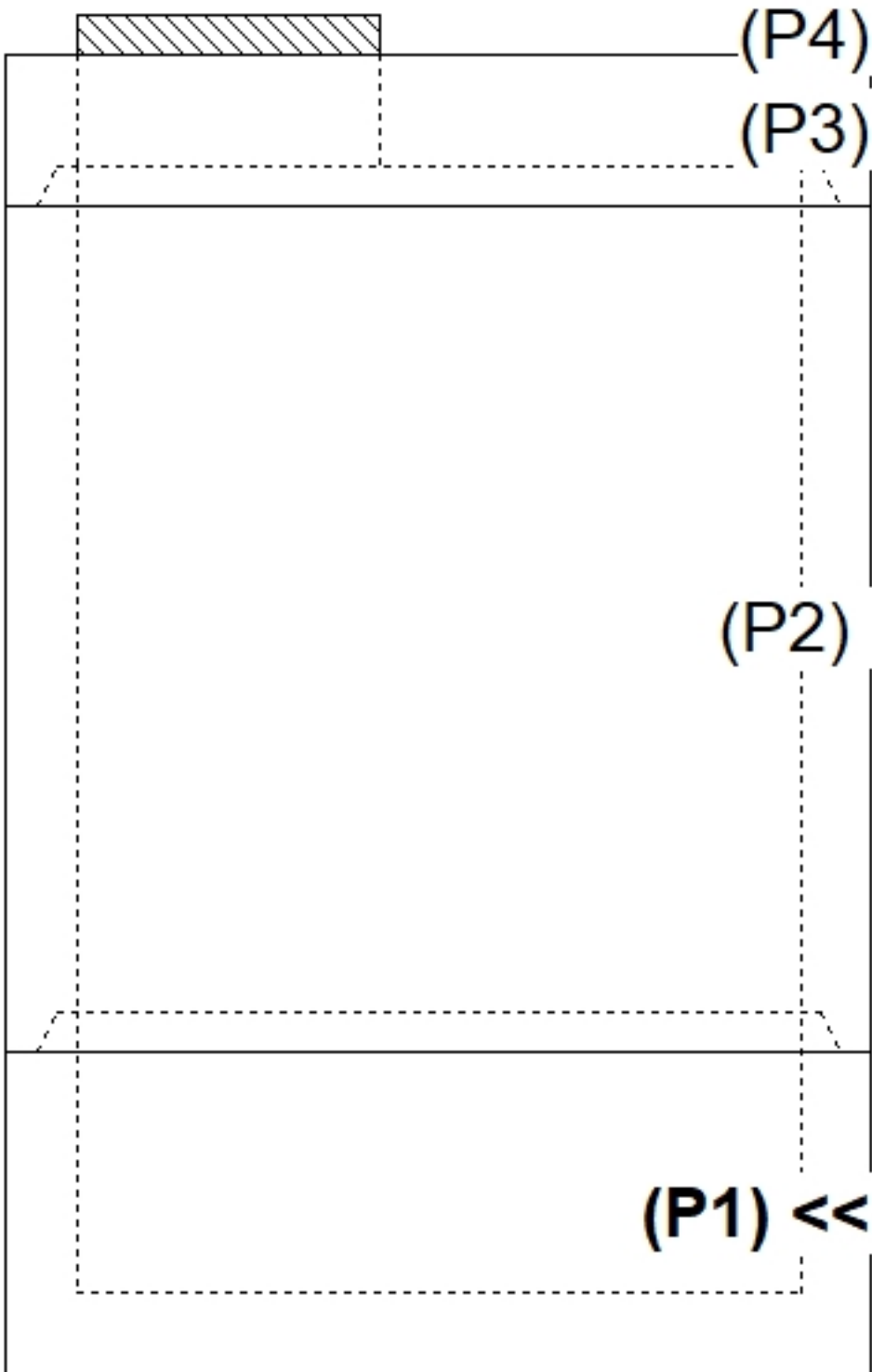
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (⌵)	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

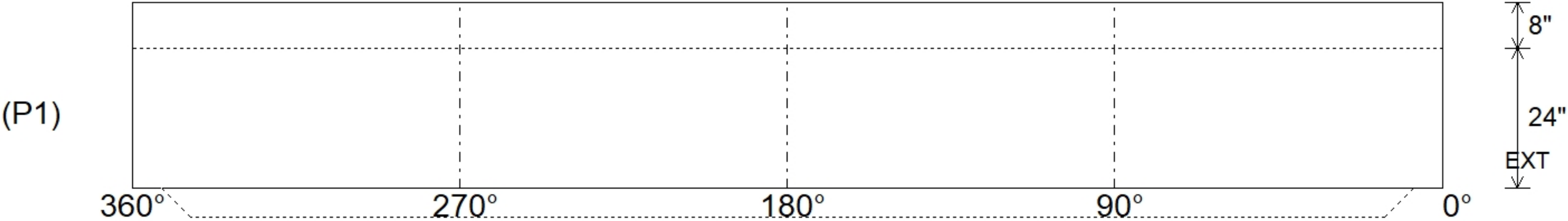


UPSIDE-DOWN VIEW (int. dimenions)





INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 7"

Floor Height: 8"

Height (Int): 24"

Height (Ext): 32"

Weight (Net): 7398 lb

Volume (Net): 1.89cu.yd

Job Name: 26-2722 863539 South Oldham High School
Job Location: Crestwood, KY
Contractor: Contech Engineering Solutions

Plant: Beaver Dam

7/8/2026 9:14:14 AM

Tech: S. Felletter

PC: C. Goff



Structure ID: 25-CS-6

P3 MH072LD15-30ECC

MH FLAT TOP SPEC. (30" ECC HOLE) F/G

- P4) 30" - CASTING HEIGHT - 4"
P3) 72" - MH FLAT TOP SPEC. (30" ECC HOLE) F/G - 15"
P2) 72" - MH RISER T/G - 84"
P1) 72" - MH BASE T/n - 24"
1) ASSEMBLY REQUIRED
1) CVSTENCILING
2) 72" - Conseal CS-102 1.00"
2) Hole - 24
1) Hole - 12

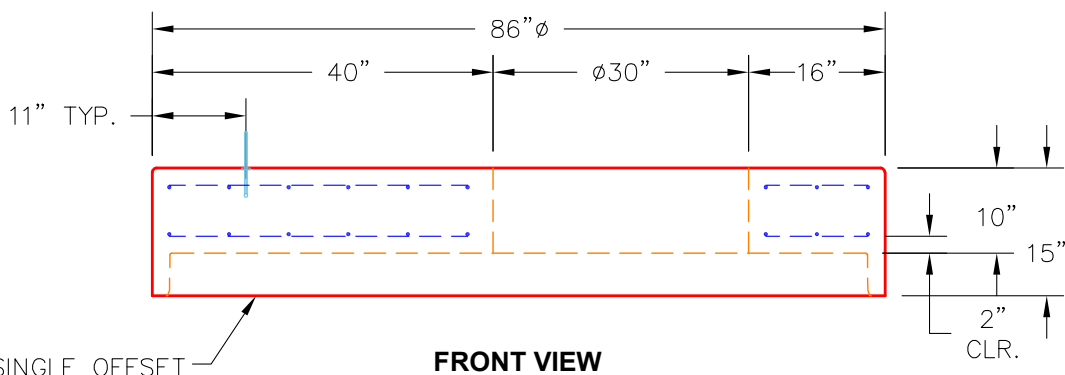
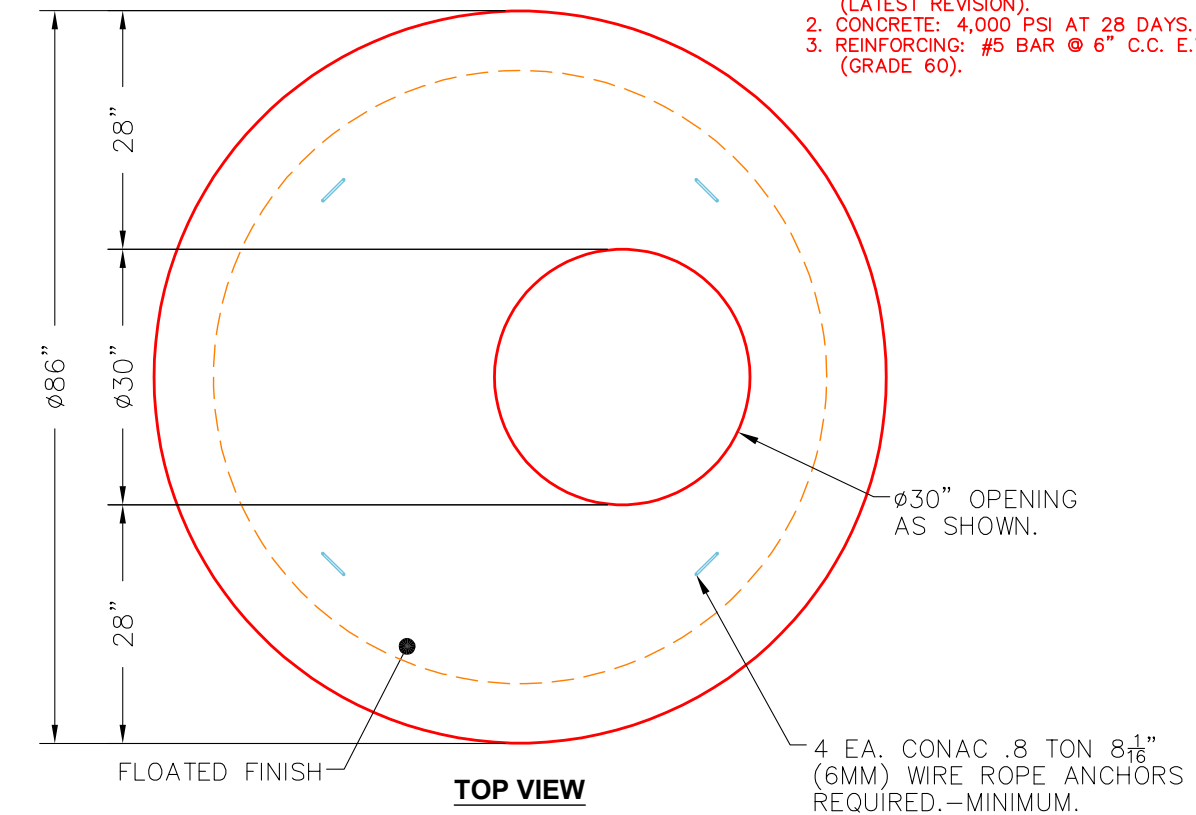
Structure Total:

0 lb
4661 lb
11639 lb
7398 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb
23698 lb

Structure Notes:
4" CASTING BY OTHERS
LIFTING ANCHORS TO BE INSTALLED
ON THE OUTSIDE OF THE STRUCTURE
ICAST TO INSTALL THE INTERNALS
CONTECH'S LOGO AS WELL AS THE
INLET AND OUTLET MUST BE
STENCILED ONTO THE STRUCTURE
P2 RISER TO BE MECHANICALLY
ATTACHED TO P1 BASE

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).



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 7"

Height (Ext): 15"

Weight (Net): 4661 lb
Volume (Net): 1.19cu.yd

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

Plant: 100

5/28/2026 7:52:47 AM

Tech: J. Horsley

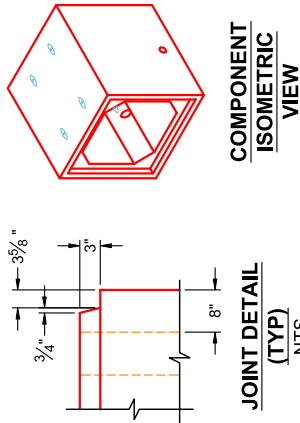
PC: C. Goff



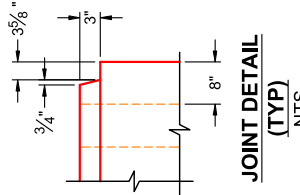
Structure ID: St. 45+00 (PC 4)

P1 BC048048-08WLF-9H

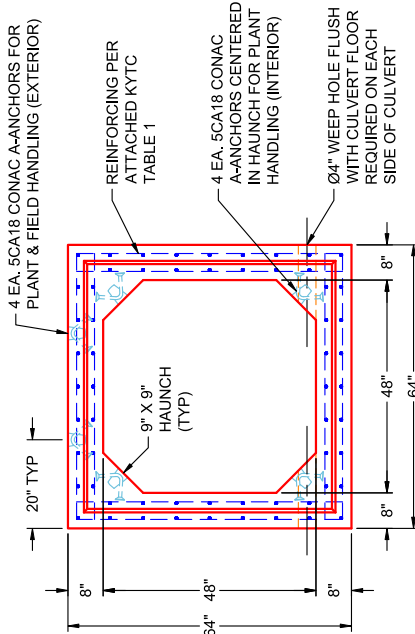
BOX CULVERT (08W/08F/08T) G/T



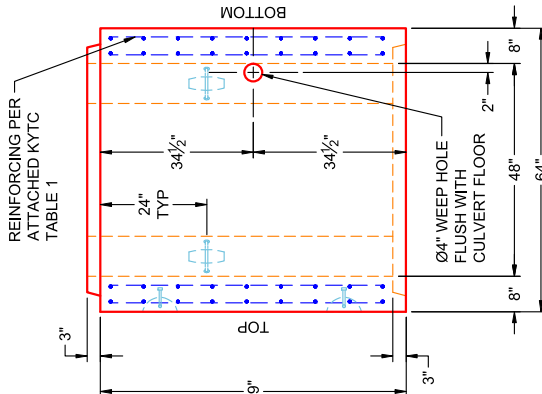
COMPONENT
ISOMETRIC
VIEW



JOINT DETAIL
(TYP)
NTS

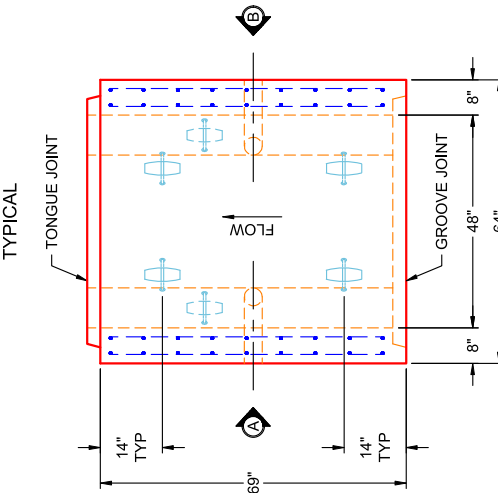


END VIEW
TYPICAL



VIEW B
PC 4

(UPRIGHT IN MOLD)



PLAN VIEW
PC 4

(UPRIGHT IN MOLD)

VIEW A
PC 4

(UPRIGHT IN MOLD)

GENERAL NOTES:

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

PRODUCTION WORK ORDER



QUALITY CONTROL CHECKLIST

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

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

PRODUCT VIEW: RIGHT SIDE UP

PLANT: BEAVER DAM, KY

WEIGHT: 11,314 LBS

TOP SECTION JOINT: TONGUE

BASE SECTION JOINT: GROOVE

QC CHECK INITIALS:

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

CUSTOMER: JIM SMITH CONTRACTING

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

STRUCTURE: ST. 45+00 (PC 4)

ORDER NO: 24-1643B

PE: J.H. ROSS

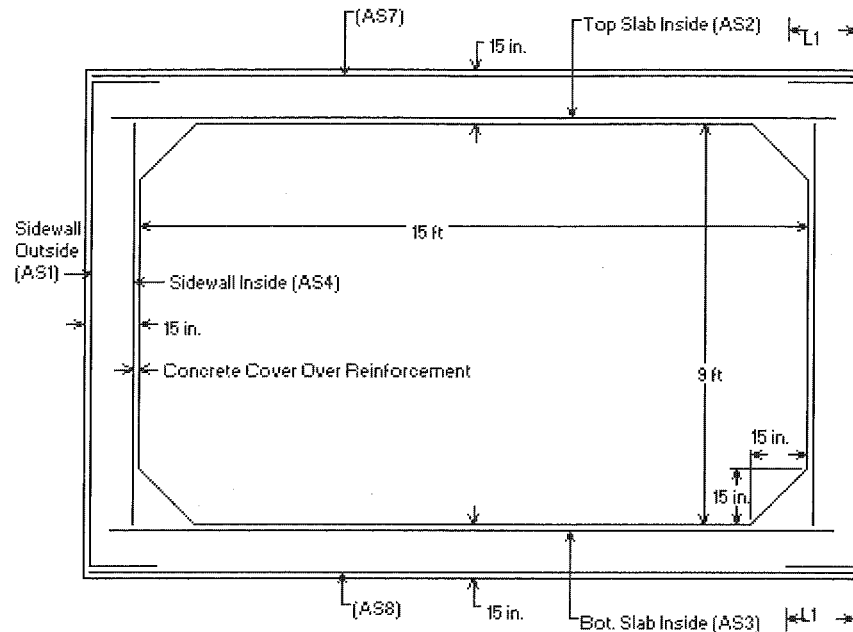
DRAWING: K. CARDWELL

DATE: 05/28/26

SCALE: NTS

PG. 1 OF 1

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

Notes:

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

KY Table 1

Precast Culvert KYHL-93 Design Table

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

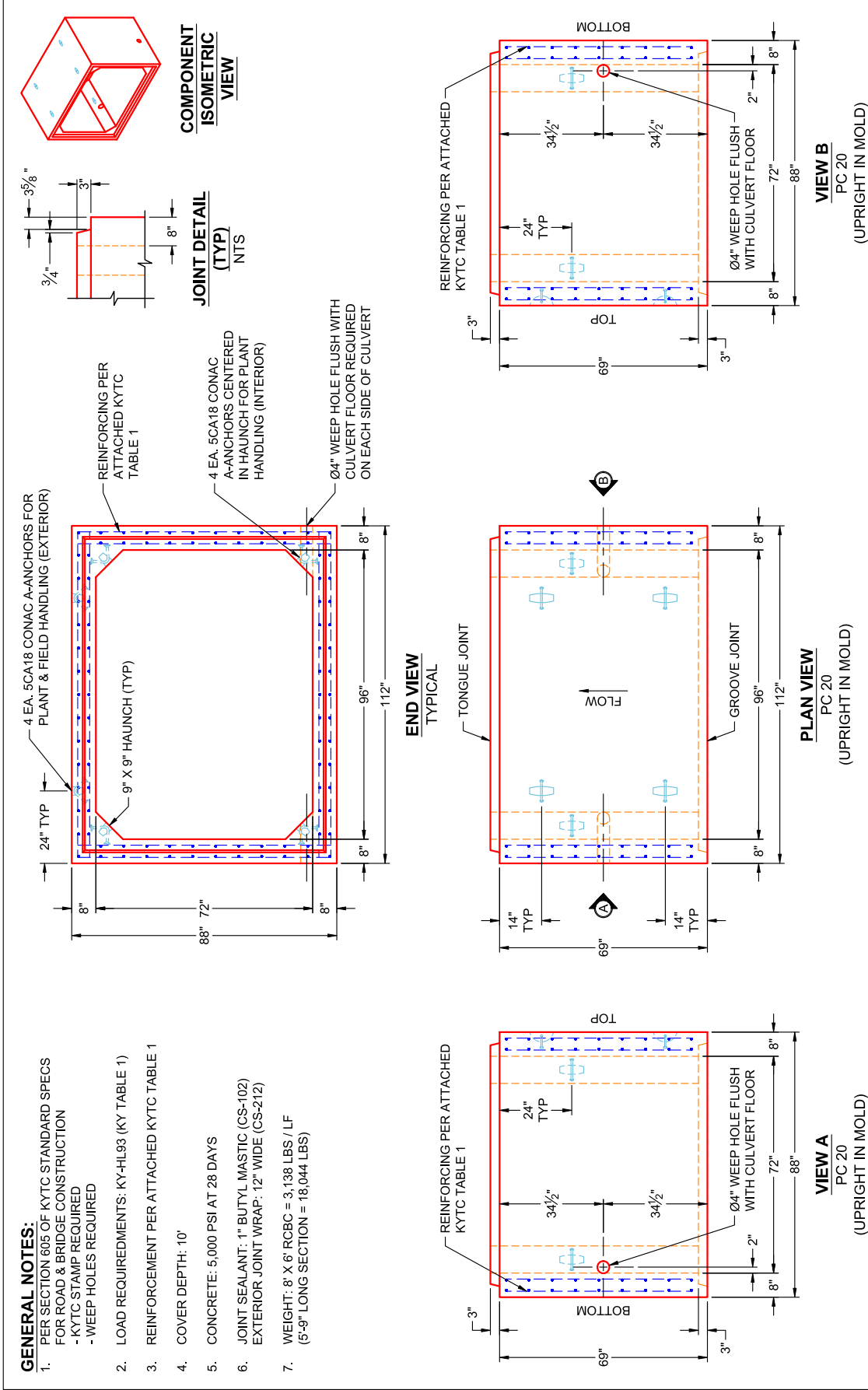
*top slab 7.5", bottom slab 6"

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

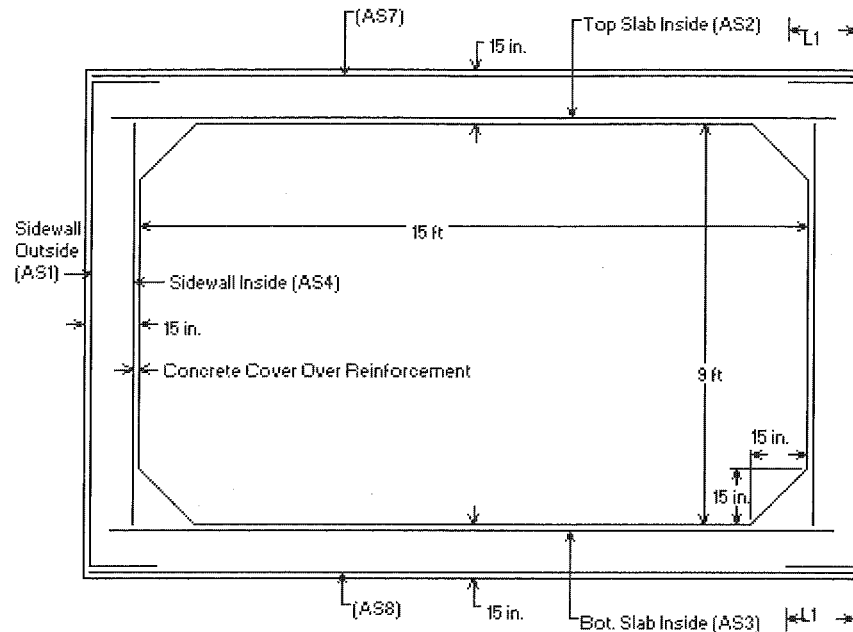
*top slab 7.5", bottom slab 6"

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

*top slab 8", bottom slab 7"



PRODUCTION WORK ORDER		PRODUCT I.D.: BC096072-08WLF-9H	DESCRIPTION: 96" X 72" X 69" BOX CULVERT (8" WALLS & 9" HAUNCH)
	QUALITY CONTROL CHECKLIST		CUSTOMER: JIM SMITH CONTRACTING
	☐ ALL DIMENSIONS CORRECT.		PROJECT: KYTC MCCracken CO. CALL 200 (ID 241301)
	☐ LIFTERS INSTALLED INSIDE.		STRUCTURE: ST. 43+62 (PC 20)
	☐ RECESS WITH HAUNCHES CORRECT.		ORDER NO: 24-1643B
	☐ REINFORCING CORRECT.		PE: J.H. ROSS
☐ SURFACE QUALITY ACCEPTABLE.		TOP SECTION JOINT: TONGUE	DRAWING: K. CARDWELL
☐ LIFTERS INSTALLED OUTSIDE.		BASE SECTION JOINT: GROOVE	SCALE: NTS
☐ PRODUCT SQUARE.		QC CHECK INITIALS:	PG. 1 OF 1
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- * <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		

Job Name: 23-2309 - Richland Estates Subdivision
Job Location: Portland, TN
Contractor: Core & Main LP (BG)

Plant: 100

6/30/2026 8:52:07 AM

Tech: J. Horsley

PC: T. Lewis



Structure ID: 05 ST-SCI

P1 BX3636-08BAVF

BOX BASE 8inW, 8inF, Variable Ht

P3) 24" x 24" - CASTING HEIGHT - 6"
P2) 36" x 36" - BX FLAT LID 8inW w/24"x24" HOLE - 6"
P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 22"
1) 36" x 36" - Conseal CS-102 1.00"
1) Hole - 20
3) Hole - 22

0 lb
1071 lb
3316 lb
0 lb
0 lb
0 lb
Structure Total: 4388 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. CASTING BY OTHERS (NEENAH R-3501 TR/TL).

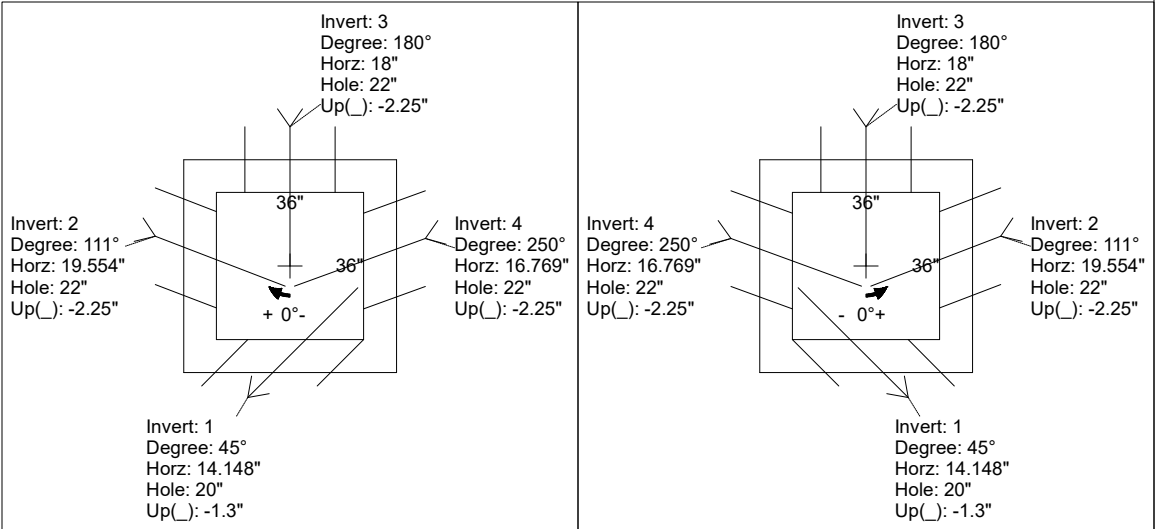
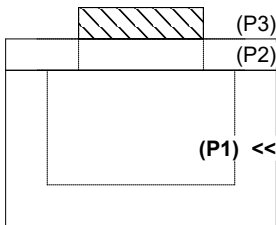
REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB = H20 LOADING.
- RISER (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 805.6' Rim to Invert: 2.85' Slack: 0.2" Sump: 0" Step Position:

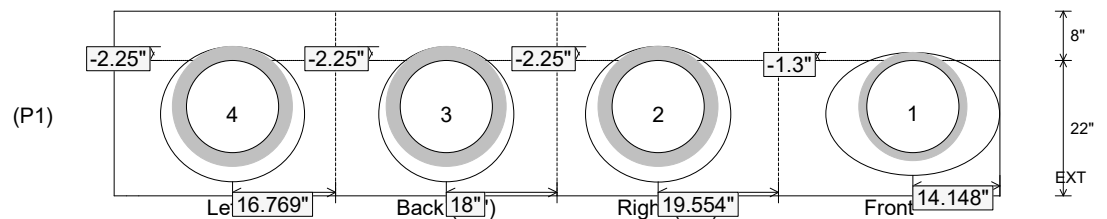
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	802.75'	45°	30.148"	15" HDPE	17.6"	Hole 20	20"	28.284"	-1.3"	-15.452"
Invert 2	802.75'	111°	30.625"	15" RCP B WALL	19.5"	Hole 22	22"	23.565"	-2.25"	-5"
Invert 3	802.75'	180°	26"	15" RCP B WALL	19.5"	Hole 22	22"	22"	-2.25"	0"
Invert 4	802.75'	250°	21.858"	15" RCP B WALL	19.5"	Hole 22	22"	23.412"	-2.25"	5"
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): 22"
Height (Ext): 30"

Weight (Net): 3316 lb
Volume (Net): 0.85cu.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 11:38:19 AM

Tech: Jared - A
PC: Erica Bradley



Structure ID: ST-12 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 - 32"
1) 28" x 28" - Conseal CS-102 1.00"
1) Hole - 20

Structure Total: 2814 lb

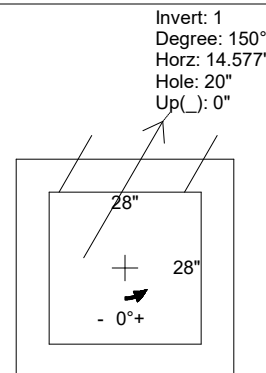
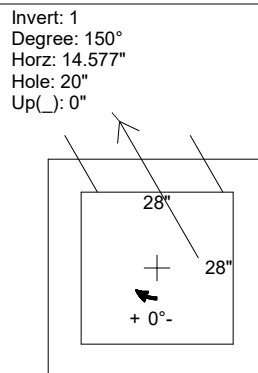
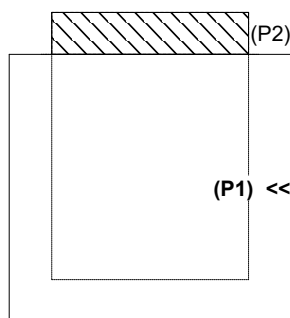
Structure Notes: .
1. JBS-3101 F/G/H PROVIDED BY OTHERS
2. PER ASTM C913 SPECIFICATIONS.
3. CONCRETE = 4,000 PSI AT 28 DAYS.
4. NO INVERT CHANNEL.
5. REINFORCING PER ASTM A615 (GRADE 60).
- WALLS (As .12) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 540' Rim to Invert: 3.1' Slack: 0.5" Sump: 1.3" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	536.9'	150°	17.113"	15" HDPE	17.6"	Hole 20	20"	23.094"	0"	7.5"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

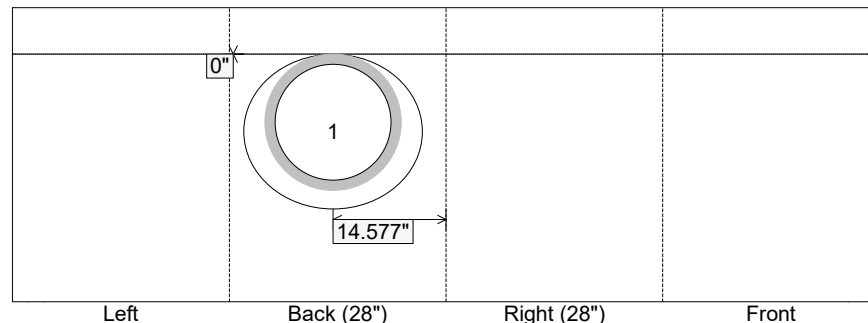
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS

(P1)



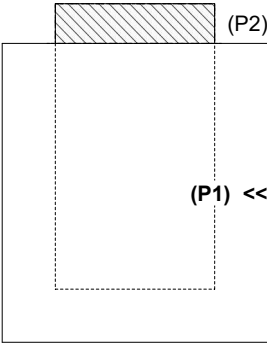
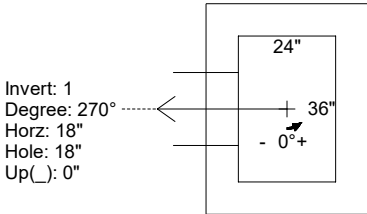
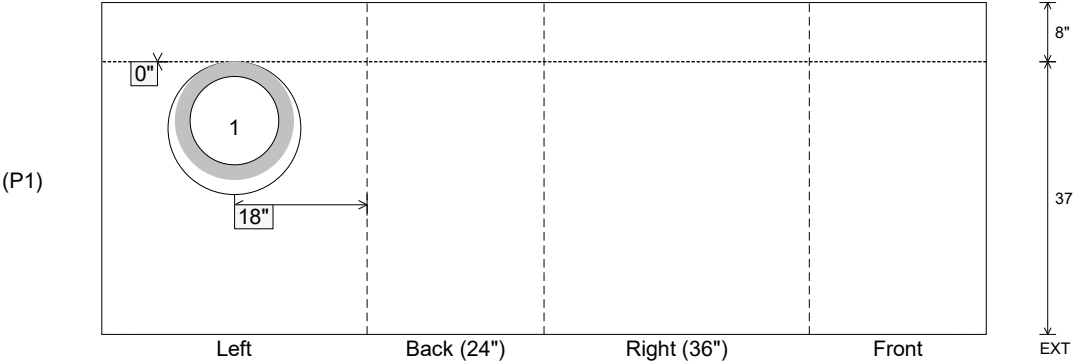
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

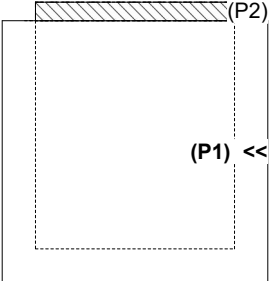
Wall Thickness: 6"
Floor Height: 6"

Height (Int): 32"
Height (Ext): 38"

Weight (Net): 2814 lb
Volume (Net): 0.72cu.yd

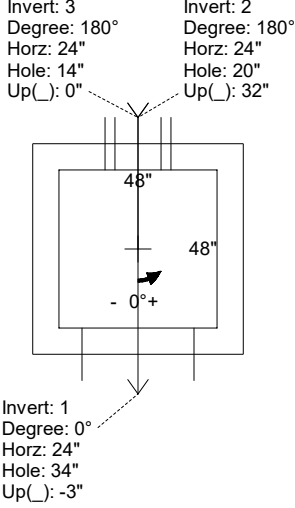
Job Name: 26-2104 - Jeffersonville High School Parking Lot Job Location: Jeffersonville, IN Contractor: Mac Construction & Excavating, Inc.					Plant: 100 6/27/2026 7:12:45 PM		Tech: Jared - A PC: T. Lewis				
Structure ID: 13 ST-CI											
P1 BX2436-08BVF		BOX BASE 8inW, 8inF, Variable Ht F/n									
P2) 24" x 36" - CASTING HEIGHT - 6" P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 37" 1) CASTING - HOE 525 SET (F/G/H) 1) 24" x 36" - Conseal CS-102 1.00" 1) Hole - 18					0 lb 5001 lb 442 lb 0 lb 0 lb Structure Total: 5443 lb		<u>Structure Notes:</u> 1. PER ASTM C-913 SPECIFICATIONS 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. STORM INVERT BY OTHERS 5. HOE 525 FRAME, GRATE, & CURB HOOD SUPPLIED BY OTHERS				
Rim: 482.8'		Rim to Invert: 3.5'		Slack: 1"		Sump: 2"		Step Position:			
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1	479.3'	270°	26"	12" RCP B WALL	16"	Hole 18	18"	18"	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)  INSIDE WALL DIMENSIONS 											
Coating (Int): Coating (Ext):			Seam Up: Flat Seam Dn: n/a		Wall Thickness: 8" Floor Height: 8"		Height (Int): 37" Height (Ext): 45"		Weight (Net): 5001 lb Volume (Net): 1.28cu.yd		

Job Name: 26-2104 - Jeffersonville High School Parking Lot Job Location: Jeffersonville, IN Contractor: Mac Construction & Excavating, Inc.					Plant: 100 6/27/2026 7:12:44 PM		Tech: Jared - A PC: T. Lewis				
Structure ID: 21 ST-OCS											
P1 BX4848-08BAVF		BOX BASE 8inW, 8inF, Variable Ht F/n									
P2) 48" x 48" - CASTING HEIGHT - 4.5" P1) 48" x 48" - BOX BASE 8inW, 8inF, Variable Ht F/n - 55" 1) 48" x 48" - Conseal CS-102 1.00" 1) Hole - 34" 1) Orifice - 20" 1) Orifice - 14"					0 lb 10096 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 10096 lb		Structure Notes: 1. PER ASTM C-913 SPECIFICATIONS 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 918 FRAME & GRATES SUPPLIED BY OTHERS				
Rim: 482.38' Rim to Invert: 4.98' Slack: 0.26" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1	477.4'	0°	32"	24" RCP B WALL	30"	Hole 34	34"	34"	-3"	0"	
Invert 2	480.07'	180°	32"	20" Orifice	20"	Orifice 20"	20"	20"	32"	0"	
Invert 3	477.4'	180°	32"	14" Orifice	14"	Orifice 14"	14"	14"	0"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

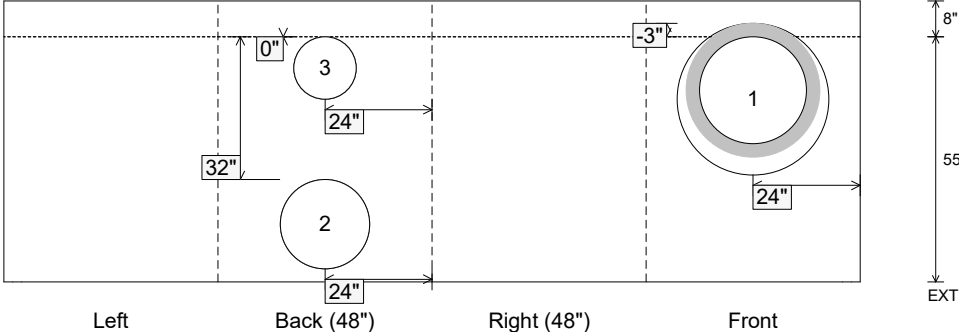


RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 55" Height (Ext): 63"	Weight (Net): 10096 lb Volume (Net): 2.58cu.yd
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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 1:33:10 PM

Tech: J. Coppage
PC: T. Ryan



Structure ID: 123+80 LT CBIA INLET 28

P1 BX2436-08BVF

BOX BASE 8inW, 8inF, Variable Ht

- P4) 24" x 120" - CB INLET KY A 10' TOP RIGHT - 10"
P3) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT - 18"
P2) 24" x 36" - BOX RISER 8inW, Variable Ht - 48"
P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 26"
2) 24" x 36" - Conseal CS-102 1.00"
1) Hole - 22
2) Hole - 18

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.

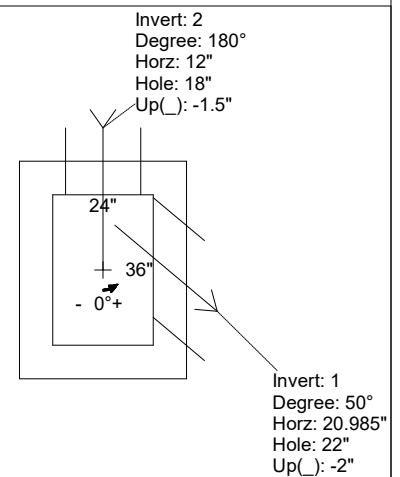
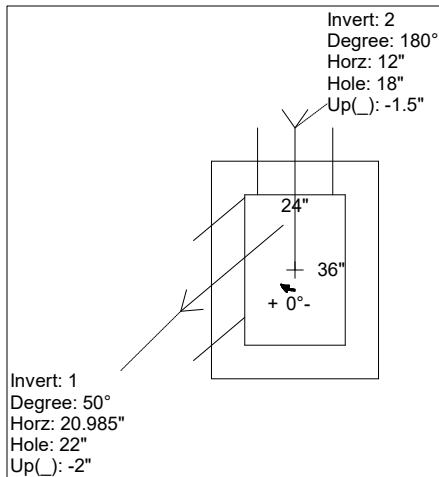
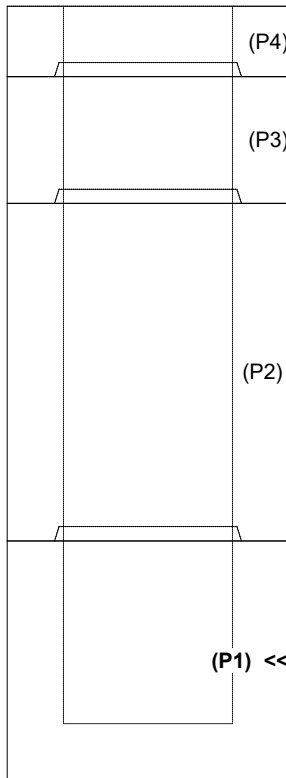
Structure Total: 16940 lb

Rim: 593.09' Rim to Invert: 8.99' Slack: 5.88" Sump: 0" Step Position:

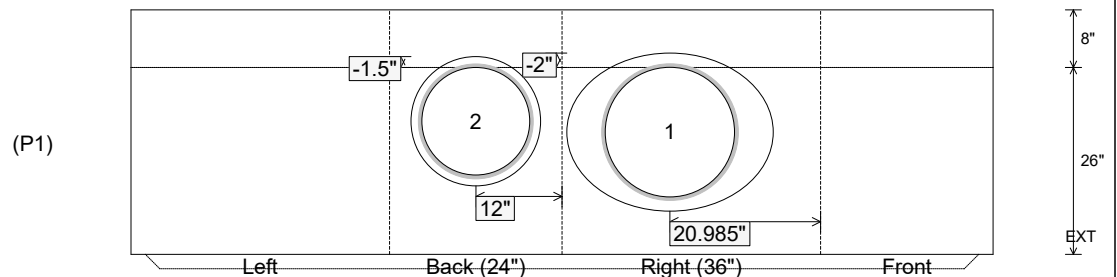
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	584.1'	50°	22.272"	18" CMP	19"	Hole 22	22"	28.719"	-2"	10"
Invert 2	584.1'	180°	20"	15" CMP	16"	Hole 18	18"	18"	-1.5"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
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

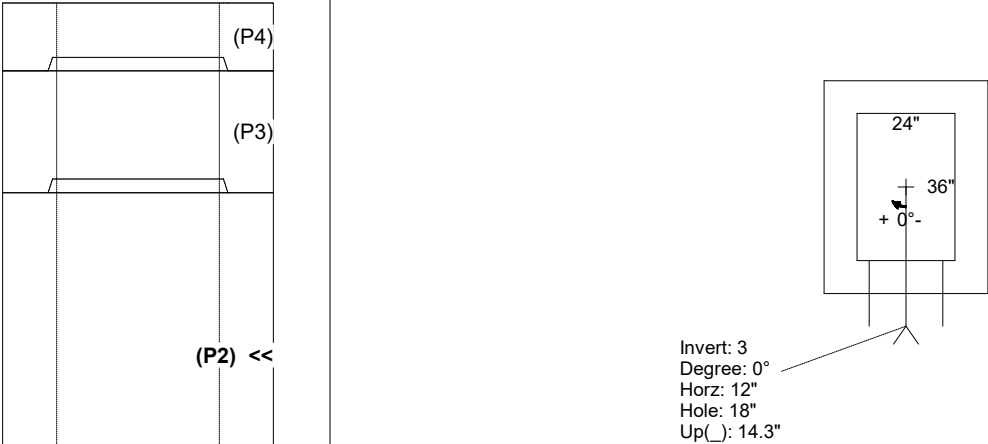
Wall Thickness: 8"
Floor Height: 8"

Height (Int): 26"
Height (Ext): 34"

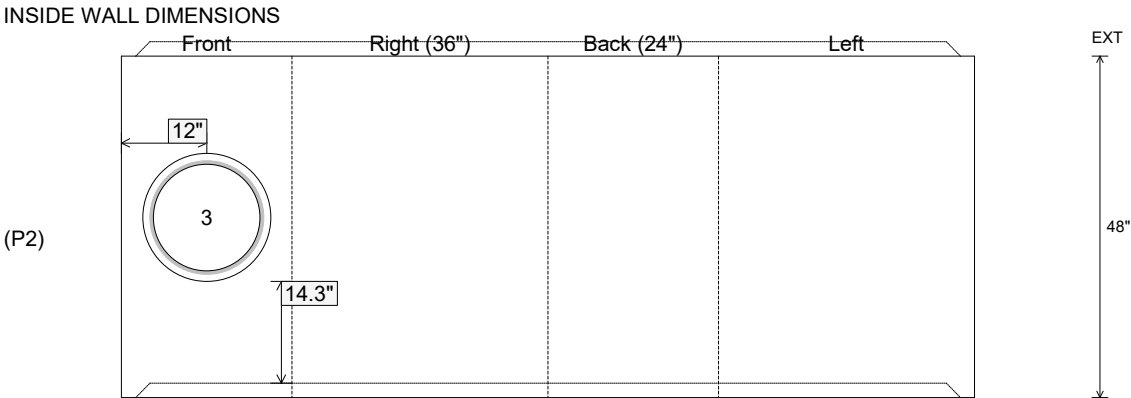
Weight (Net): 3545 lb
Volume (Net): 0.91cu.yd

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 1:34:24 PM		Tech: J. Coppage PC: T. Ryan				
Structure ID: 123+80 LT CBIA INLET 28											
P2		BX2436-08R-VH		BOX RISER 8inW, Variable Ht							
P4) 24" x 120" - CB INLET KY A 10' TOP RIGHT - 10" P3) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT - 18" P2) 24" x 36" - BOX RISER 8inW, Variable Ht - 48" P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 26" 2) 24" x 36" - Conseal CS-102 1.00" 1) Hole - 22 2) Hole - 18						3398 lb 5270 lb 4727 lb 3545 lb 0 lb 0 lb 0 lb ----- Structure Total: 16940 lb		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.			
Rim: 593.09' Rim to Invert: 8.99' Slack: 5.88" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1											
Invert 2											
Invert 3	587.75'	0°	20"	15" CMP	16"	Hole 18	18"	18"	14.3"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS

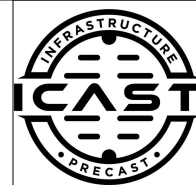


Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 8" Floor Height: 0"	Height (Int): 48" Height (Ext): 48"	Weight (Net): 4727 lb Volume (Net): 1.21cu.yd
----------------------------------	------------------------------------	--	--	--

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 1:33:08 PM

Tech: J. Coppage
PC: T. Ryan



Structure ID: 122+60 LT CBIA INLET 23

P1 BX2436-08BVF

BOX BASE 8inW, 8inF, Variable Ht

- 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, Variable Ht - 26"
1) 24" x 36" - Conseal CS-102 1.00"
1) Hole - 18"

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.

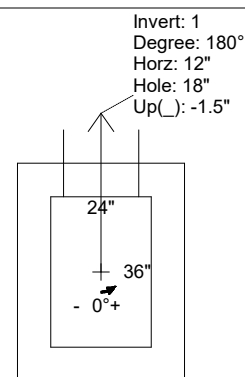
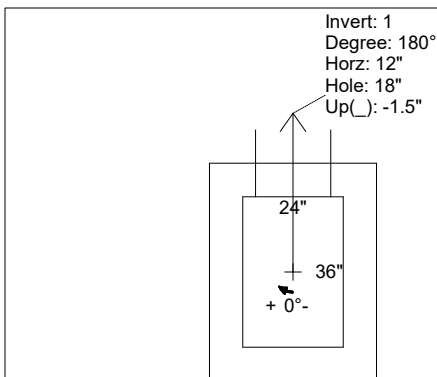
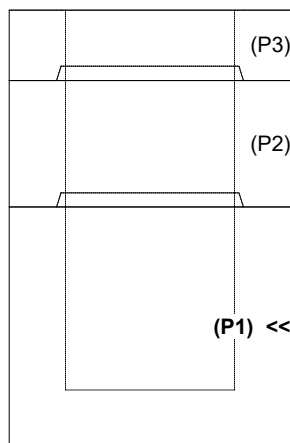
Structure Total: 12548 lb

Rim: 593.21' Rim to Invert: 4.91' Slack: 4.92" Sump: 0" Step Position:

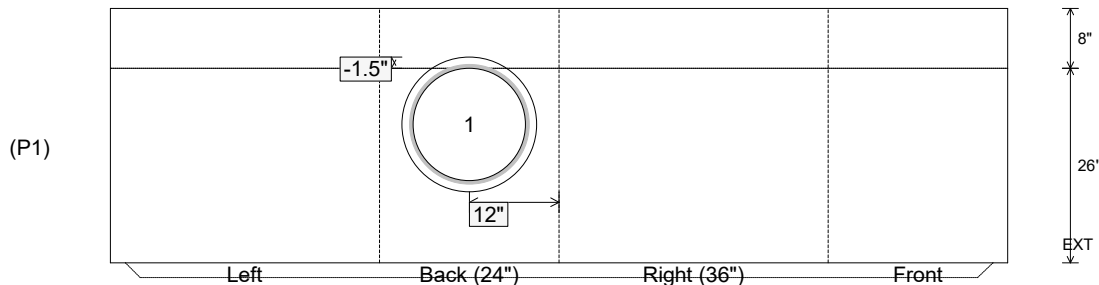
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	588.3'	180°	20"	15" CMP	16"	Hole 18	18"	18"	-1.5"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 26"
Height (Ext): 34"

Weight (Net): 3878 lb
Volume (Net): 0.99cu.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 1:33:07 PM

Tech: J. Coppage

PC: T. Ryan



Structure ID: 2002+20 LT CBIB INLET 25

P1 BX2436-08BVF

BOX BASE 8inW, 8inF, Variable Ht

- P4) 8" x 120" - CB INLET KY B 10' TOP - 9"
P3) 24" x 120" - CB INLET KY B 10' BOTTOM RIGHT - 17"
P2) 24" x 36" - CB FT REDUCER 24"X24" HOLE - 8"
P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 29"
1) 24" x 36" - Conseal CS-102 1.00"
1) 24" x 24" - Conseal CS-102 1.00"
2) 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.

1660 lb
2650 lb
1010 lb
3800 lb
0 lb
0 lb
0 lb

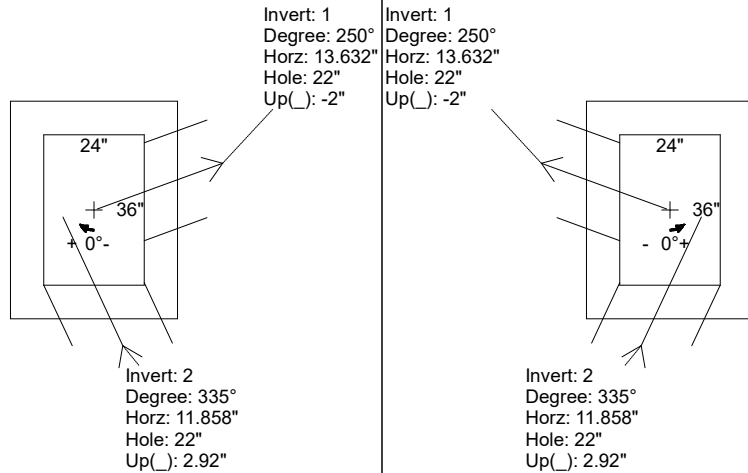
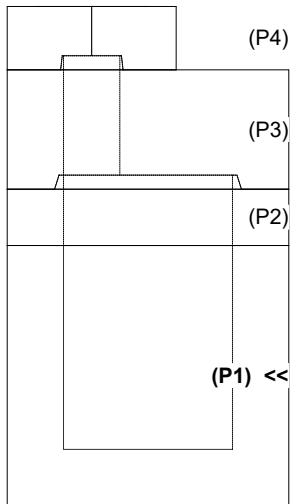
Structure Total: 9120 lb

Rim: 587.88' Rim to Invert: 5.28' Slack: 0.36" Sump: 0" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	582.6'	250°	18.721"	18" CMP	19"	Hole 22	22"	23.412"	-2"	0"
Invert 2	583.01'	335°	16.128"	18" CMP	19"	Hole 22	22"	23.996", 0.598"	2.92"	7.479"
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):

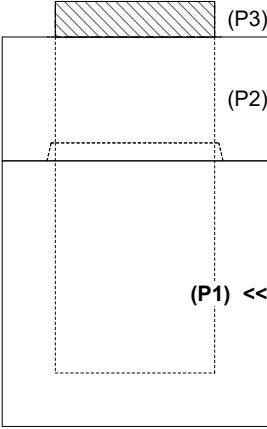
Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

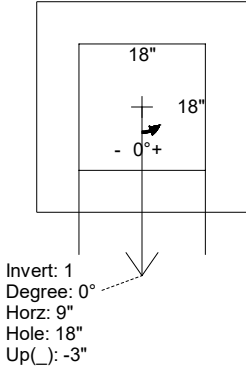
Height (Int): 29"
Height (Ext): 37"

Weight (Net): 3800 lb
Volume (Net): 0.97cu.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 5:40:51 PM		Tech: J. Horsley - A PC: J. Jarvis				
Structure ID: 49										
P1 BX1818-06BA24				BOX BASE 6inW, 6inF T/n						
P3) 18" x 18" - CASTING HEIGHT - 4" P2) 18" x 18" - BOX RISER 6inW, Variable Ht F/G - 14" P1) 18" x 18" - BOX BASE 6inW, 6inF T/n - 24" 2) 18" x 18" - Conseal CS-102 1.00" 1) Hole - 18						0 lb 677 lb 1517 lb 0 lb 0 lb Structure Total: 2194 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: 551.29' Rim to Invert: 3.5' Slack: 0" Sump: 0" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	547.79'	0°	15"	12" HDPE	14.5"	Hole 18	18"	18"	-3"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

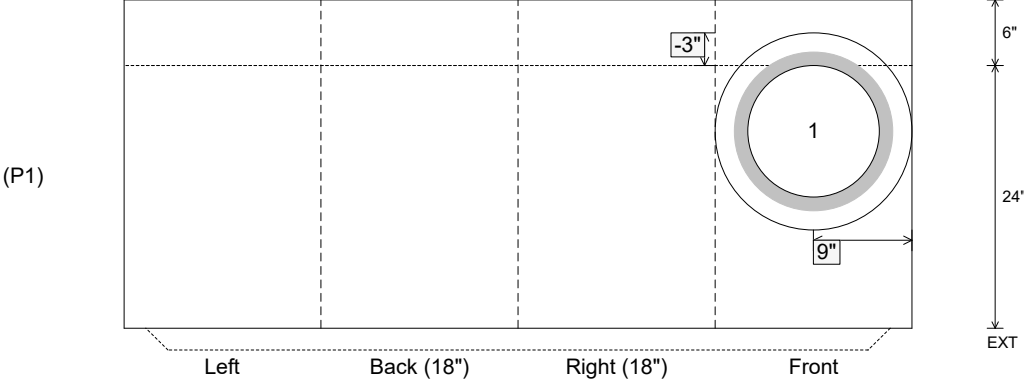


RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimenions)

Invert: 1
Degree: 0°
Horz: 9"
Hole: 18"
Up(): -3"



INSIDE WALL DIMENSIONS

Left Back (18") Right (18") Front

EXT 24" 6" 9" 3"

Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 6"

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

Weight (Net): 1517 lb
Volume (Net): 0.39cu.yd

Job Name: 24-4174 - PHS Athletic Facility Job Location: Clarksville, IN Contractor: Mac Construction & Excavating, Inc.					Plant: 100 5/14/2026 7:04:08 AM		Tech: Jared - A PC: J. Jarvis				
Structure ID: 1											
P1		BX2424-08BAVF			BOX BASE 8inW, 8inF, Variable Ht F/n						
P2) 24" x 24" - CASTING HEIGHT - 4" P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 25" 1) 24" x 24" - Conseal CS-102 1.00" 1) Hole - 12					0 lb 3146 lb 0 lb 0 lb ----- 3146 lb Structure Total:		Structure Notes: 1. PER ASTM C-913 SPECIFICATIONS 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. HOE 280T FRAME & GRATE SUPPLIED BY OTHERS				
Rim: 455.05' Rim to Invert: 2.5' Slack: 1.55" Sump: 0.55" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	452.55'	180°	20"	8" ADS N-12	9.1"	Hole 12	12"	12"	0"	0"	
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INVERT 1
Degree: 180°
Horz: 12"
Hole: 12"
Up(): 0"

24"

24"

- 0°+

INSIDE WALL DIMENSIONS

(P1)

0"

1

12"

LeftBack (24")Right (24")Front

8"25"EXT

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 25"
Height (Ext): 33"

Weight (Net): 3146 lb
Volume (Net): 0.8cu.yd

Job Name: 24-4174 - PHS Athletic Facility

Job Location: Clarksville, IN

Contractor: Mac Construction & Excavating, Inc.

Plant: 100

5/14/2026 7:04:07 AM

Tech: Jared - A

PC: J. Jarvis



Structure ID: 2

P1 BX2424-08BA30

BOX BASE 8inW, 8inF F/n

P2) 24" x 24" - CASTING HEIGHT - 4"

P1) 24" x 24" - BOX BASE 8inW, 8inF F/n - 30"

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

2) Hole - 12

0 lb

3500 lb

0 lb

0 lb

Structure Total: 3500 lb

Structure Notes:

1. PER ASTM C-913 SPECIFICATIONS

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. HOE 280T FRAME & GRATE SUPPLIED BY OTHERS

Rim: 455.05'

Rim to Invert: 2.88'

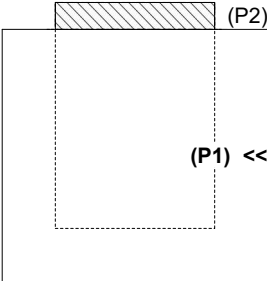
Slack: 1.11"

Sump: 0.55"

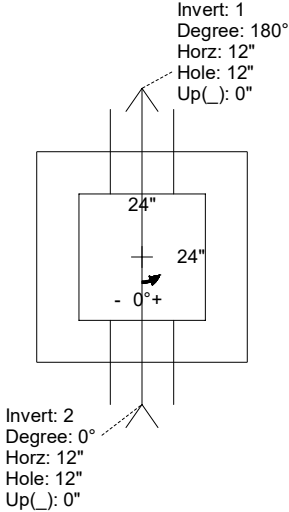
Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	452.17'	180°	20"	8" ADS N-12	9.1"	Hole 12	12"	12"	0"	0"
Invert 2	452.17'	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										

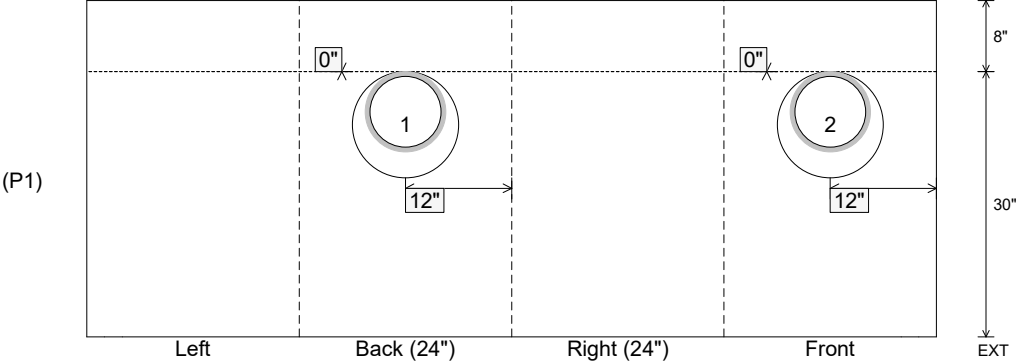
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 8"

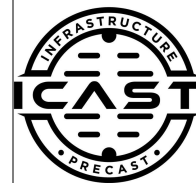
Floor Height: 8"

Height (Int): 30"

Height (Ext): 38"

Weight (Net): 3500 lb

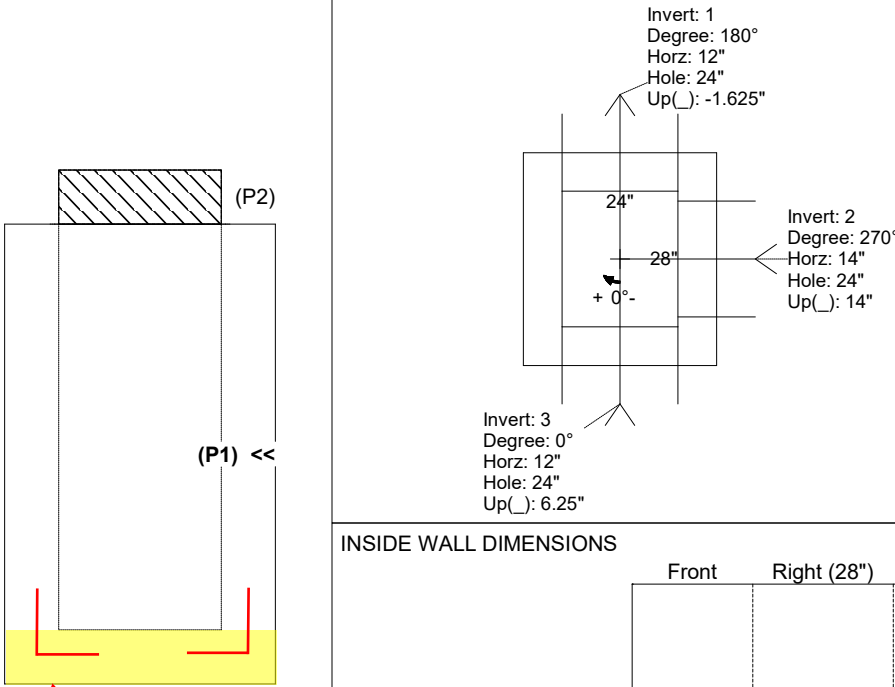
Volume (Net): 0.89cu.yd



Weight (Net): 6082 lb
Volume (Net): 1.55cu.yd

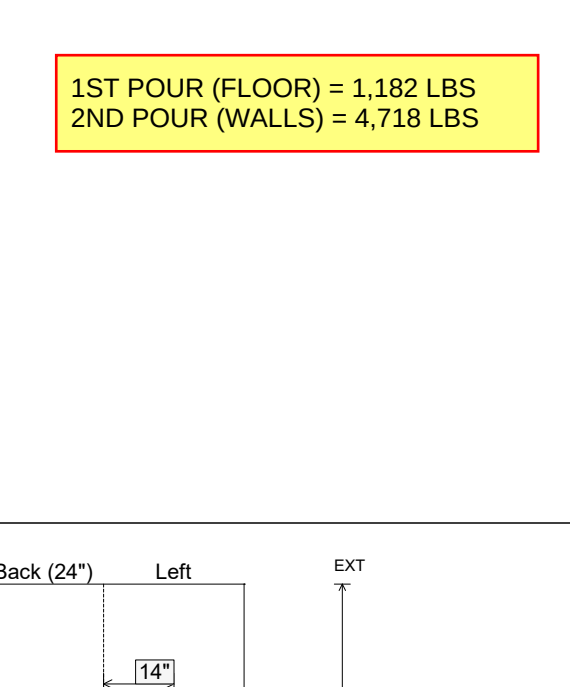
Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100 3/26/2026 1:41:52 PM		Tech: Jared - F PC: E. Bradley				
Structure ID: B-01											
P1 BX2428-08BAVF BOX BASE 8inW, 8inF, Variable Ht F/n											
P2) 24" x 28" - CASTING HEIGHT - 8" P1) 24" x 28" - BOX BASE 8inW, 8inF, Variable Ht - 60" 1) Conseal CS-102 1.00" (Single) 1) SECONDARY POUR - Walls 1) CASTING - NEENAH R-3588-L (L GRATE) 1) CASTING - NEENAH R-3589 (FRAME) 3) Hole - 24"						0 lb 5900 lb 0 lb 0 lb 152 lb 250 lb 0 lb ----- Structure Total: 6302 lb		Structure Notes: **WVDOT STATE PROJECT** 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING BY I-CAST (NEENAH R-3589 (FRAME)& R-3588-L (L GRATE)) . 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: 605.39' Rim to Invert: 6.19' Slack: 6.28" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1	599.2'	180°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"	
Invert 2	600.5'	270°	22"	18" HDPE	21.2"	Hole 24	24"	24"	14"	0"	
Invert 3	599.85'	0°	20"	18" HDPE	21.2"	Hole 24	24"	24"	6.25"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

RIGHT-SIDE UP VIEW (int. dimensions)

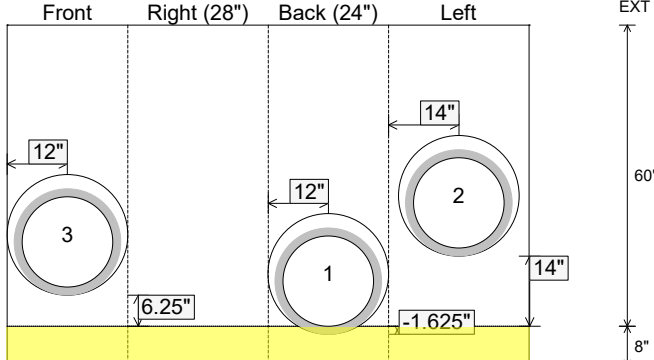


UPSIDE-DOWN VIEW (int. dimensions)

1ST POUR (FLOOR) = 1,182 LBS
2ND POUR (WALLS) = 4,718 LBS

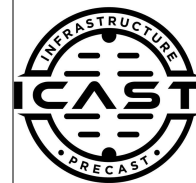


INSIDE WALL DIMENSIONS



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): 60" Height (Ext): 68"	Weight (Net): 5900 lb Volume (Net): 1.51cu.yd
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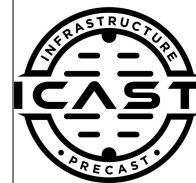


Weight (Net): 5900 lb
Volume (Net): 1.51cu.yd

Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100 3/26/2026 1:41:46 PM		Tech: Jared - F PC: E. Bradley			
Structure ID: A-02										
P1 BX2428-08BAVF			BOX BASE 8inW, 8inF, Variable Ht F/n							
P2) 24" x 28" - CASTING HEIGHT - 8" P1) 24" x 28" - BOX BASE 8inW, 8inF, Variable Ht - 74" 1) Conseal CS-102 1.00" (Single) 1) SECONDARY POUR - Walls 1) CASTING - NEENAH R-3588-L (L GRATE) 1) CASTING - NEENAH R-3589 (FRAME) 2) Hole - 24"						0 lb 7330 lb 0 lb 0 lb 152 lb 250 lb 0 lb ----- Structure Total: 7732 lb		Structure Notes: **WVDOT STATE PROJECT** 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING BY I-CAST (NEENAH R-3589 (FRAME)& R-3588-L (L GRATE)) . 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: 607.26' Rim to Invert: 7.36' Slack: 6.32" Sump: 0" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	599.9'	90°	22"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"
Invert 2	600'	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. dimensions) 1ST POUR (FLOOR) = 1,182 LBS 2ND POUR (WALLS) = 6,148 LBS
INSIDE WALL DIMENSIONS 	

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 74" Height (Ext): 82"	Weight (Net): 7330 lb Volume (Net): 1.87cu.yd
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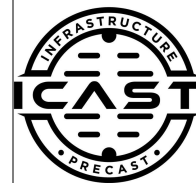


Weight (Net): 7330 lb
Volume (Net): 1.87cu.yd

Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100 3/26/2026 1:41:45 PM		Tech: Jared - F PC: E. Bradley					
Structure ID: A-03												
P1 BX2428-08BAVF			BOX BASE 8inW, 8inF, Variable Ht F/n									
P2) 24" x 28" - CASTING HEIGHT - 8" P1) 24" x 28" - BOX BASE 8inW, 8inF, Variable Ht - 71" 1) Con Seal CS-102 1.00" (Single) 1) SECONDARY POUR - Walls 1) CASTING - NEENAH R-3588-L (L GRATE) 1) CASTING - NEENAH R-3589 (FRAME) 1) Hole - 24						0 lb 7360 lb 0 lb 0 lb 152 lb 250 lb 0 lb ----- Structure Total: 7762 lb		Structure Notes: **WVDOT STATE PROJECT** 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING BY I-CAST (NEENAH R-3589 (FRAME)& R-3588-L (L GRATE)) . 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: 607.3' Rim to Invert: 7.1' Slack: 6.2" Sump: 0" Step Position:												
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset		
Invert 1	600.2'	90°	22"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	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. dimenions)				
					1ST POUR (FLOOR) = 1,182 LBS 2ND POUR (WALLS) = 6,178 LBS				
INSIDE WALL DIMENSIONS									
					EXT 71" 8"				

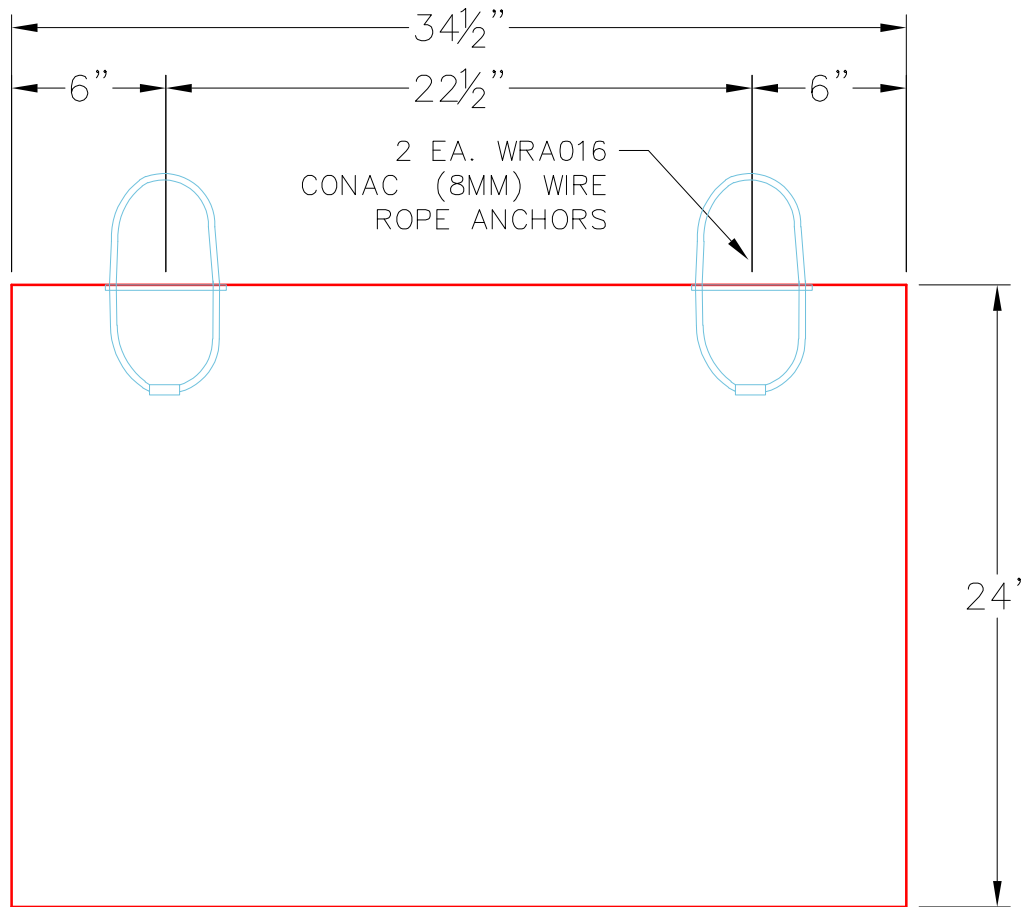
Coating (Int): Coating (Ext):		Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 71" Height (Ext): 79"	Weight (Net): 7360 lb Volume (Net): 1.88cu.yd
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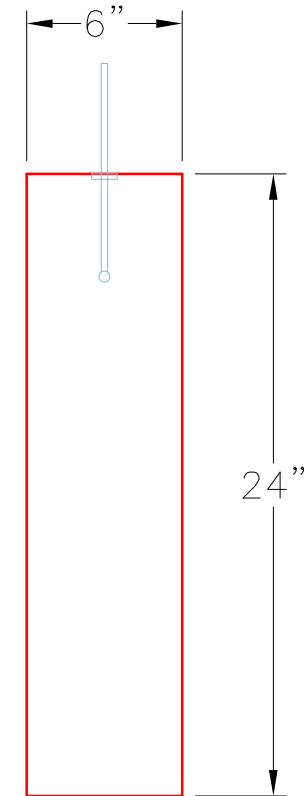
Weight (Net): 7360 lb
Volume (Net): 1.88cu.yd

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: 417 LBS. EACH
5. CONTRACTOR TO SECURE FES TOE TO THE FES.



FRONT VIEW

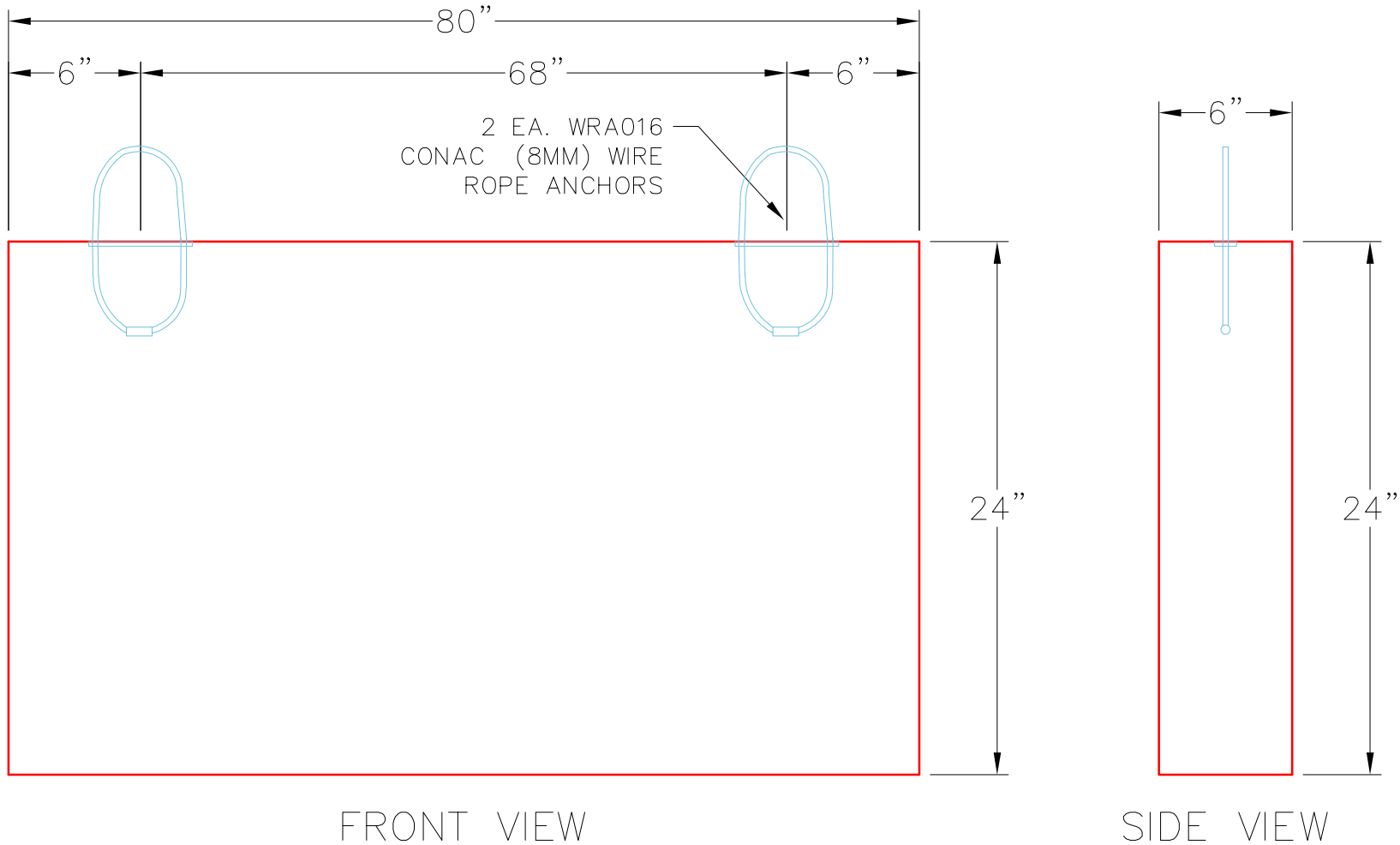


SIDE VIEW

PRODUCTION WORK ORDER		PRODUCT I.D.: FES15B-TB	DESCRIPTION: TOE FOR 15" 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	CUSTOMER: RUSSELL'S EXCAVATING	
		PLANT: BEAVER DAM, KY.	PROJECT: PROJECT COLT	
		WEIGHT: 417 LBS.	STRUCTURE: 501-35 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:

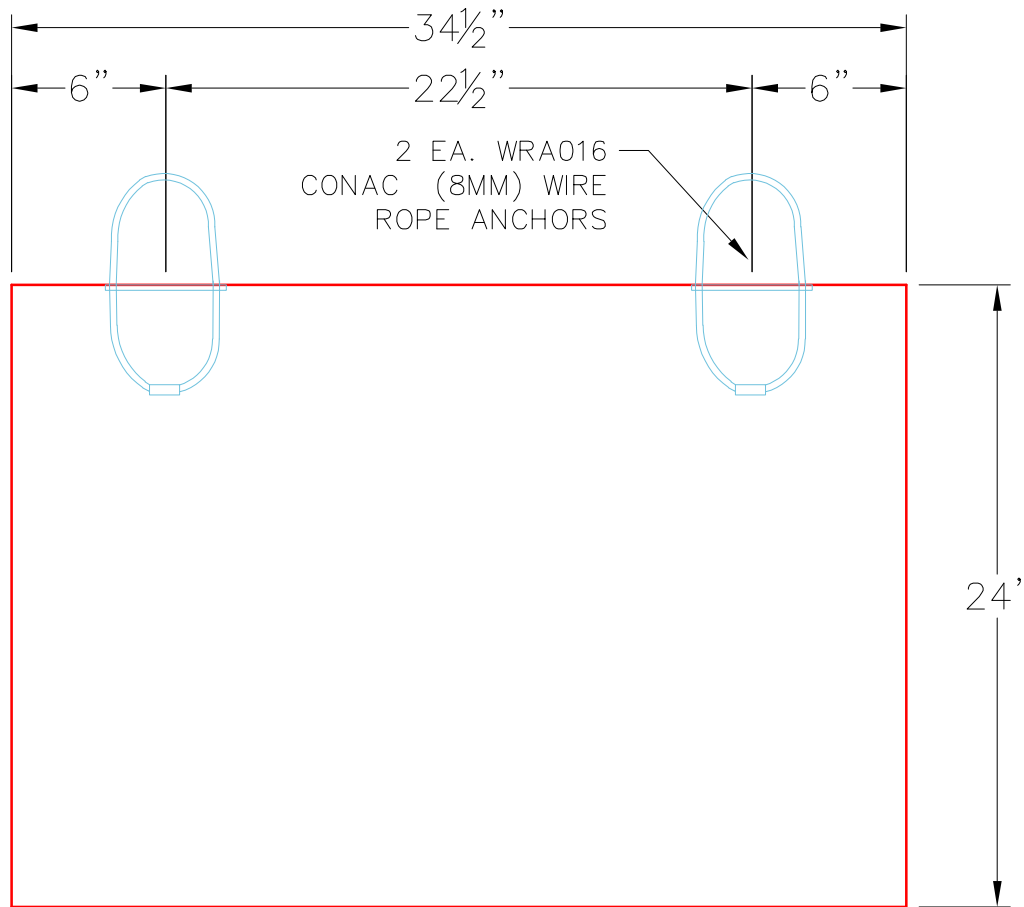
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS.
3. REINFORCING: #5 @ 12" C/C E.W. 2" COVER MIN.
4. WEIGHT: 967 LBS. EACH
5. CONTRACTOR TO SECURE FES TOE TO THE FES.



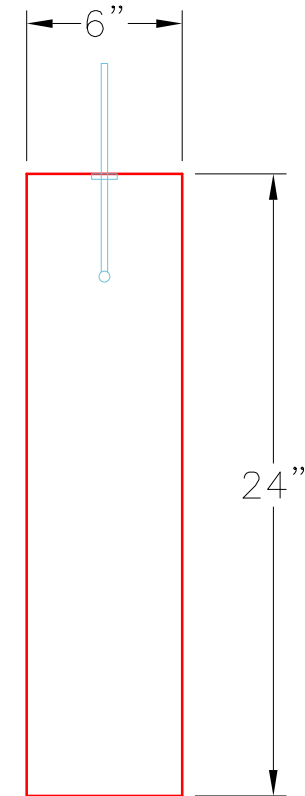
PRODUCTION WORK ORDER		PRODUCT I.D.: FES36B-TB	DESCRIPTION: TOE FOR 36" FES	
	QUALITY CONTROL CHECKLIST ☐ ALL DIMENSIONS CORRECT. ☐ LIFTERS INSTALLED. ☐ OPENING CENTERED. ☐ REINFORCING CORRECT. ☐ SURFACE QUALITY ACCEPTABLE. ☐ EDGES CHAMFERED. ☐ ALL PATCHWORK ACCEPTABLE.	PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: RUSSELL'S EXCAVATING	
		PLANT: BEAVER DAM, KY.	PROJECT: PROJECT COLT	
		WEIGHT: 967 LBS.	STRUCTURE: 200-21 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: 417 LBS. EACH
5. CONTRACTOR TO SECURE FES TOE TO THE FES.



FRONT VIEW



SIDE VIEW

PRODUCTION WORK ORDER		PRODUCT I.D.: FES15S-TB	DESCRIPTION: TOE FOR 15" 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	CUSTOMER: RUSSELL'S EXCAVATING	
		PLANT: BEAVER DAM, KY.	PROJECT: PROJECT COLT	
		WEIGHT: 417 LBS.	STRUCTURE: 500-34 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

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 1:33:50 PM

Tech: J. Coppage
PC: T. Ryan



Structure ID: 2002+20 LT CBIB INLET 25

P2 BX024036-08TS024024

CB FT REDUCER 24"X24" HOLE

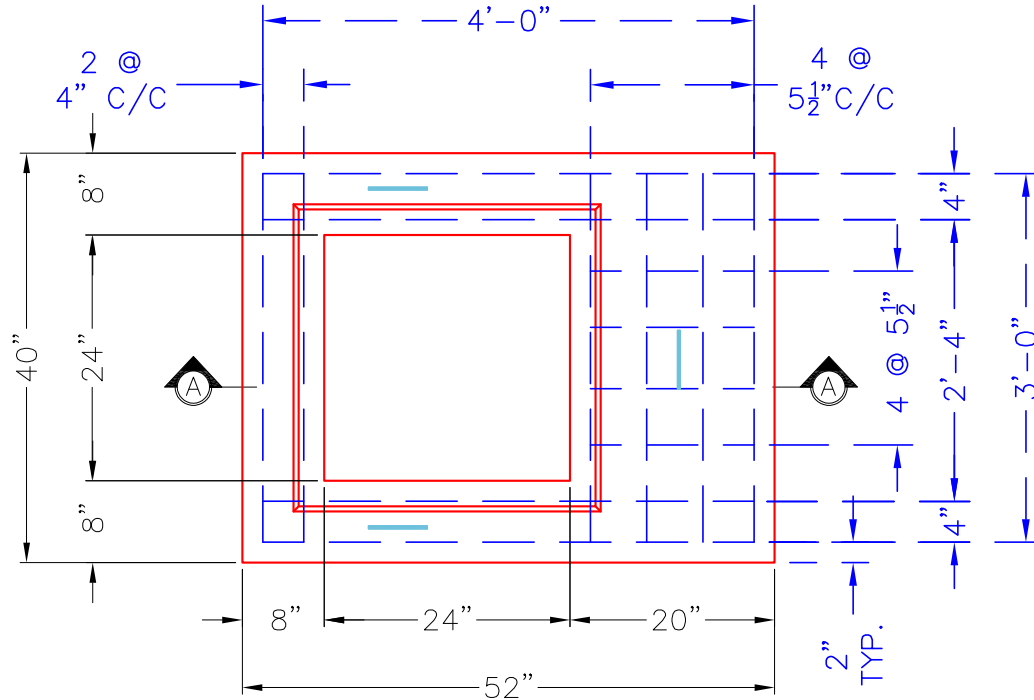
- P4) 8" x 120" - CB INLET KY B 10' TOP - 9"
P3) 24" x 120" - CB INLET KY B 10' BOTTOM RIGHT - 17"
P2) 24" x 36" - CB FT REDUCER 24"X24" HOLE - 8"
P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 29"
1) 24" x 36" - Conseal CS-102 1.00"
1) 24" x 24" - Conseal CS-102 1.00"
2) Hole - 22

1660 lb
2650 lb
1010 lb
3800 lb
0 lb
0 lb
0 lb

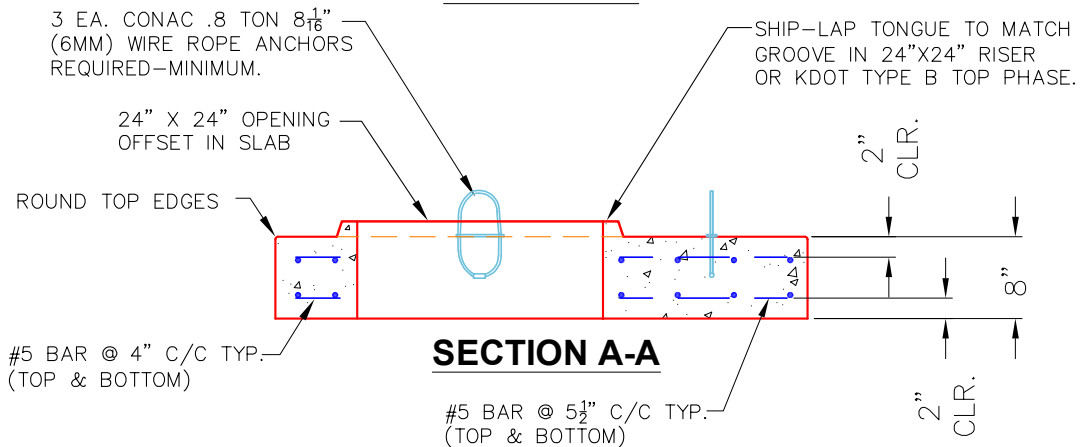
Structure Total: 9120 lb

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.



PLAN VIEW



NOTES:

- CONCRETE: 4500 PSI @ 28 DAYS.
- MANUFACTURED TO KYTC & ASTM C-913 SPECIFICATIONS.
- REINFORCING: #5 BAR AS SHOWN-GRADE 60. (T&B LAYER)
- KYTC STATE CERTIFICATIONS REQUIRED.
- 3 EA. CONAC WIRE LIFTING LOOPS REQUIRED (MIN.)

#5 BAR CUT LIST

- 8 EA. @ 48" LG.
- 12 EA. @ 36" LG.
- 8 EA. @ 16" LG.

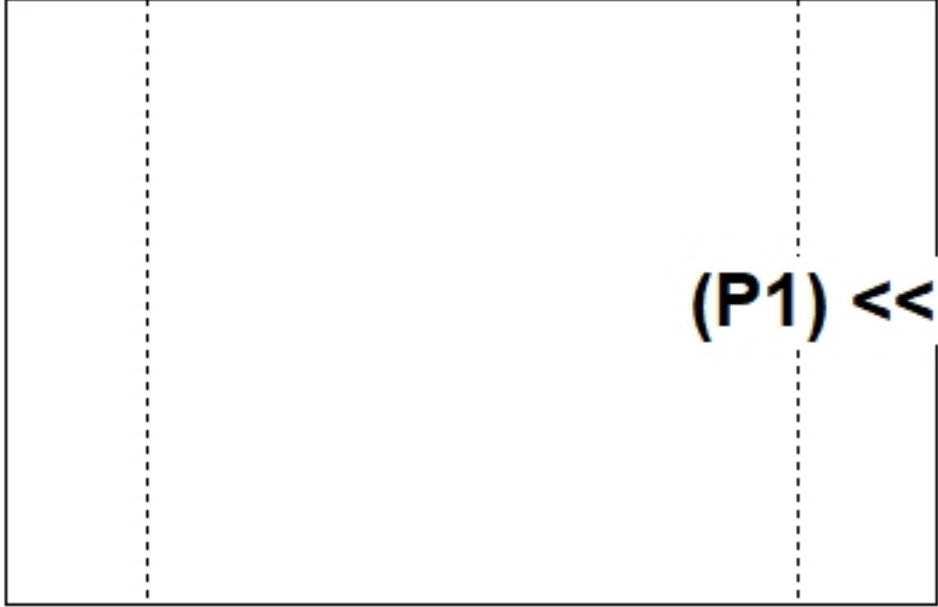
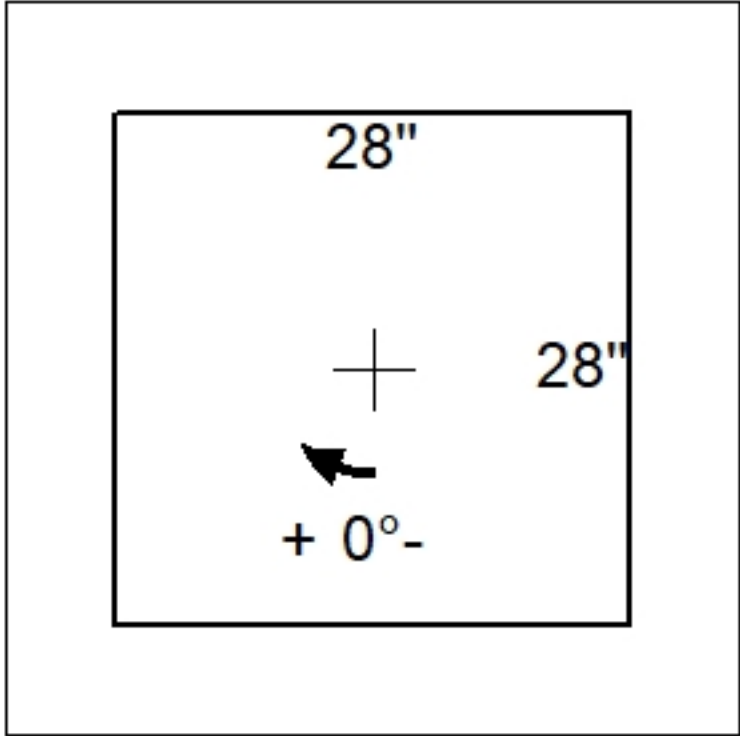
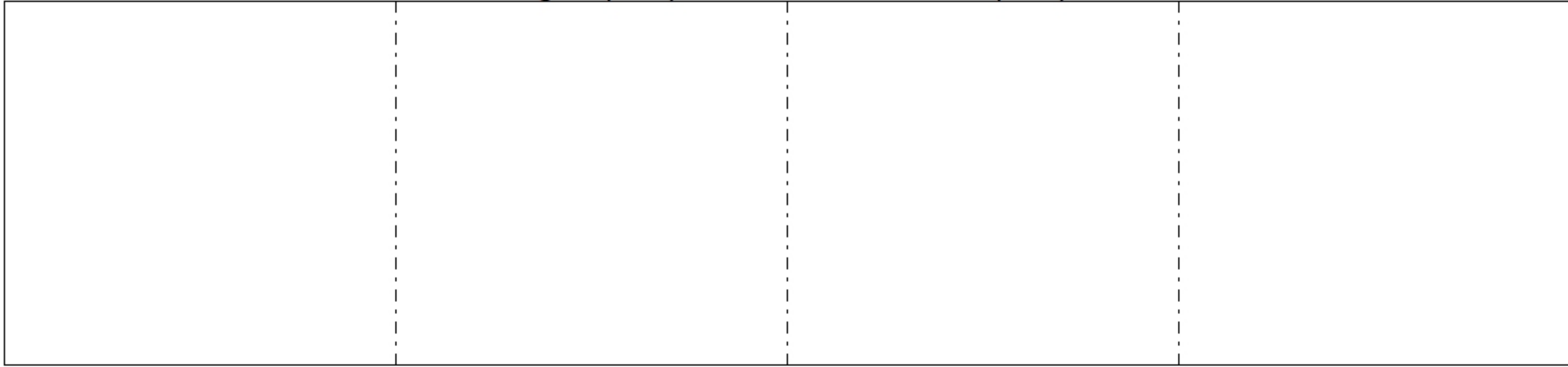
Coating (Int):
Coating (Ext):

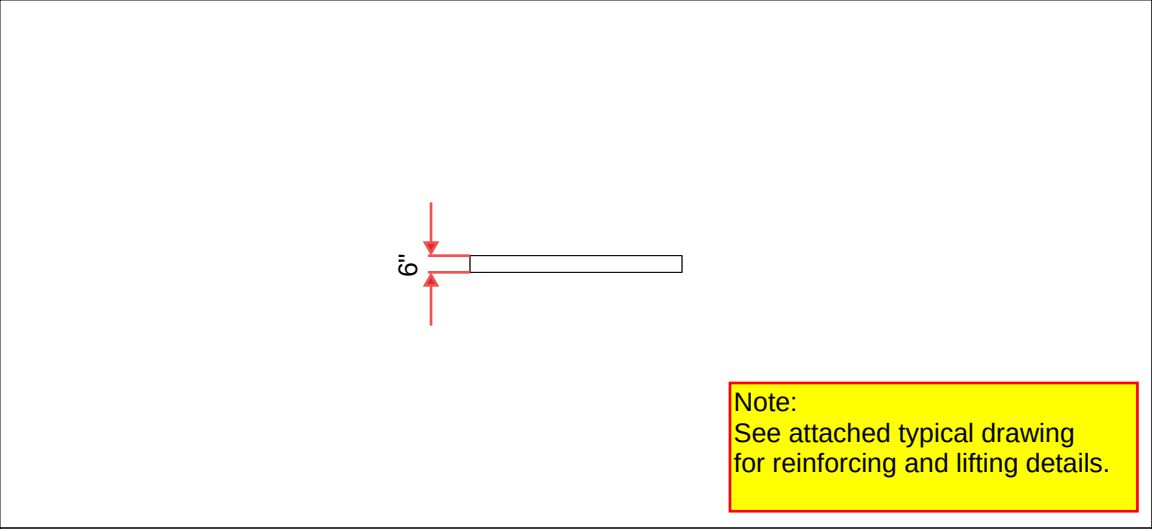
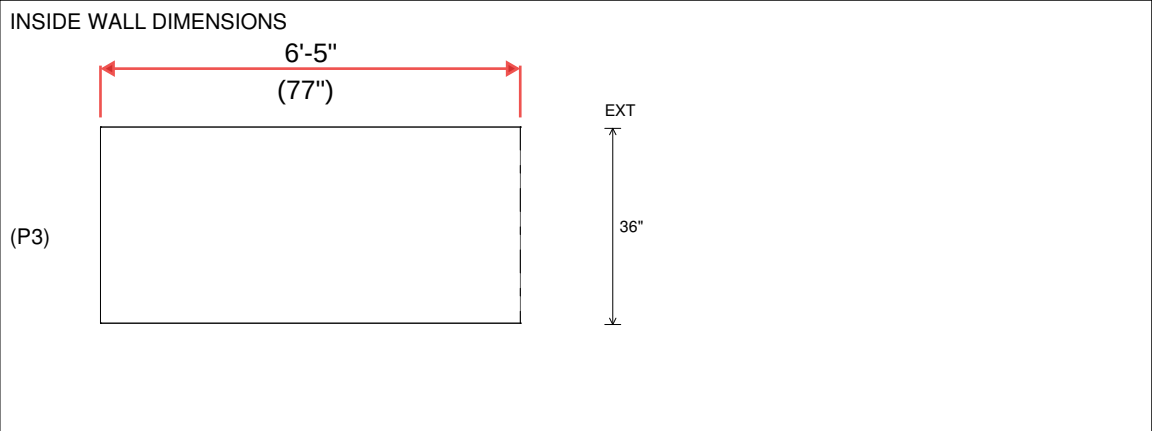
Seam Up: Tongue
Seam Dn: Flat

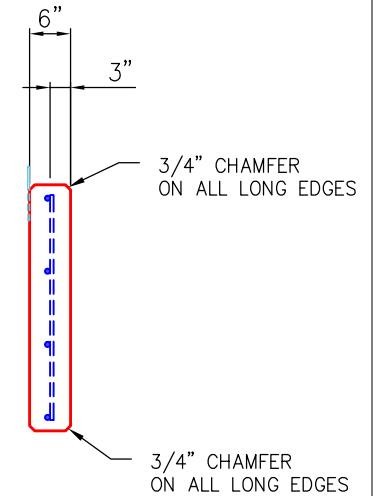
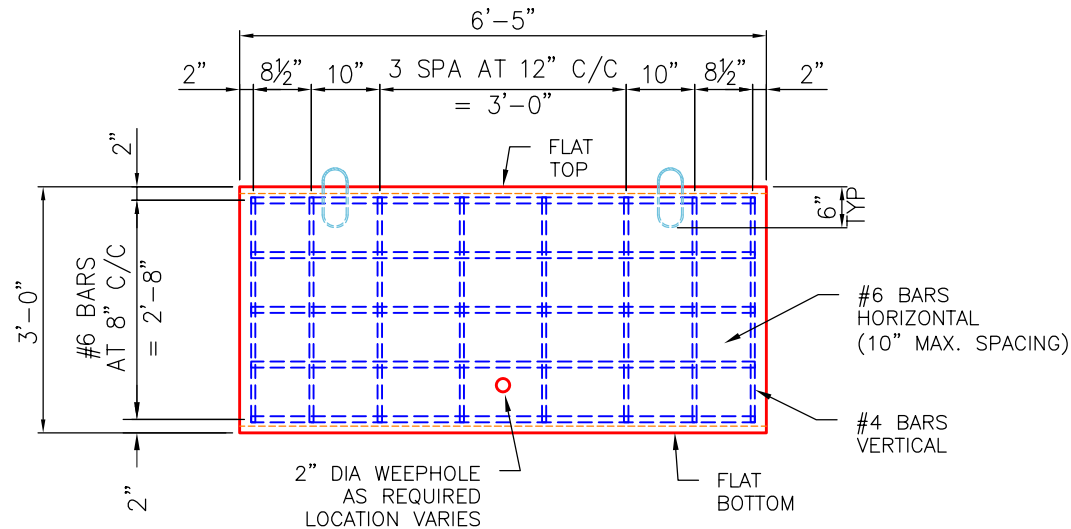
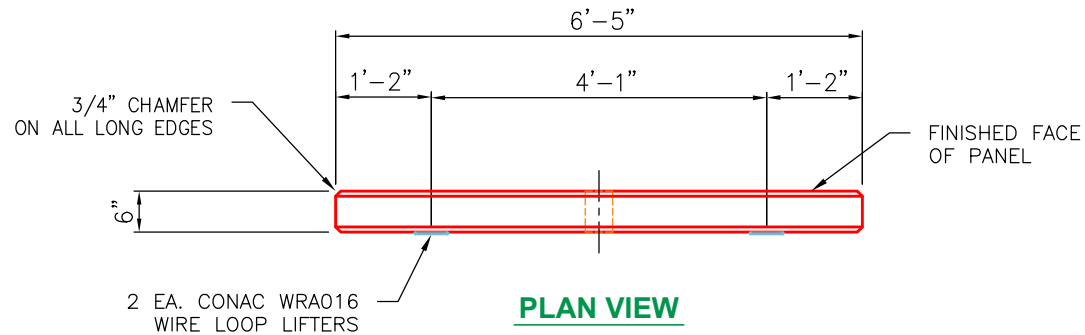
Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 1010 lb
Volume (Net): 0.26cu.yd

Job Name: 25-2284C Parks at Cane Ridge Ph.2B Job Location: Antioch, TN Contractor: Josh King Excavating					Plant: Beaver Dam 6/22/2026 8:23:29 AM		Tech: S. Felletter PC: A. Chambers				
Structure ID: D4.3											
P1		BX2828-06R-VH			BOX RISER 6inW, Variable Ht F/F						
P1) 28" x 28" - BOX RISER 6inW, Variable Ht F/F - 26"							1780 lb Structure Total: 1780 lb		Structure Notes: . 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. . REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .31) #5 BARS AT 12" C.C.E.W.		
Rim: 2.167' 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											
RIGHT-SIDE UP VIEW (int. dimensions)											
											
		INSIDE WALL DIMENSIONS									
(P1)										EXT 26"	
		Coating (Int): Coating (Ext):		Seam Up: Flat Seam Dn: Flat		Wall Thickness: 6" Floor Height: 0"		Height (Int): 26" Height (Ext): 26"		Weight (Net): 1780 lb Volume (Net): 0.46cu.yd	

Job Name: 26-1333 - Mitchell Hill Road Project Job Location: Louisville, KY 40118 Contractor: Hall Contracting of Kentucky Inc					Plant: 100 6/16/2026 1:23:21 PM		Tech: J. Horsley PC: J. Jarvis				
Structure ID: WALL P6-P7											
P3 CUSTOM WALL				WALL PANEL 6" THICK F/F							
P4) 77" x 6" - WALL PANEL 6" THICK F/F - 2.00' 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						932 lb 1398 lb 1398 lb 1398 lb 0 lb ----- Structure Total: 5125 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: 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											
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	



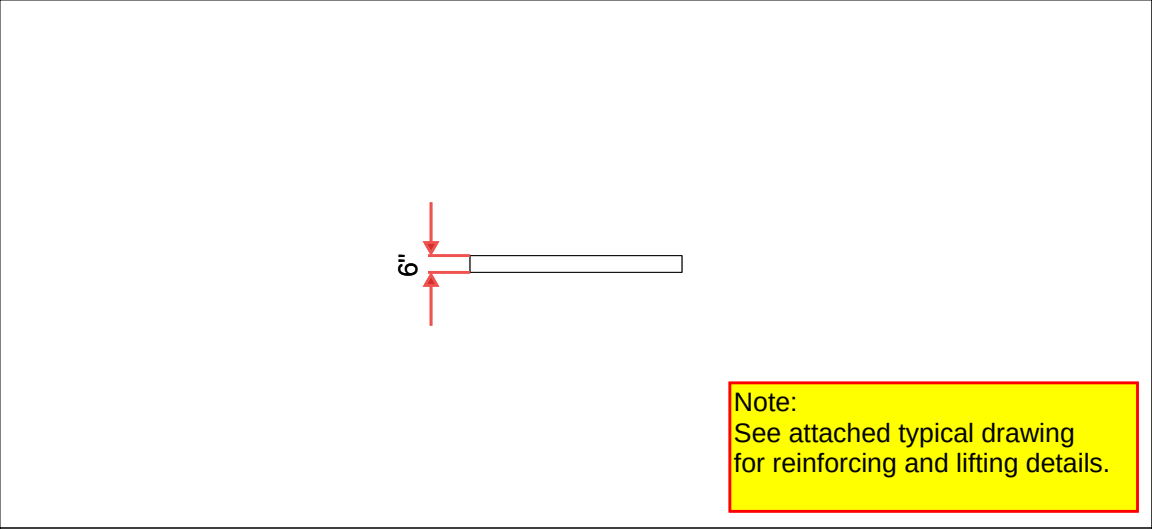
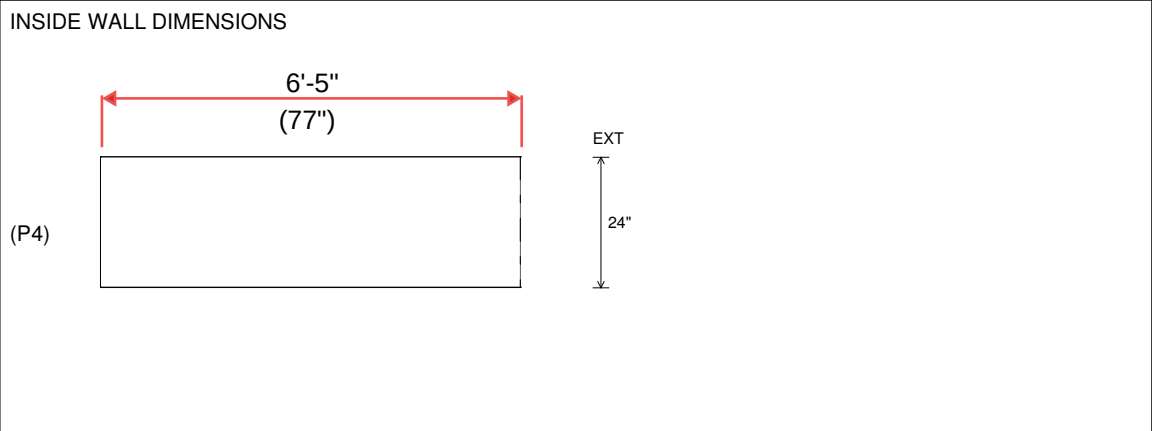
GENERAL NOTES:

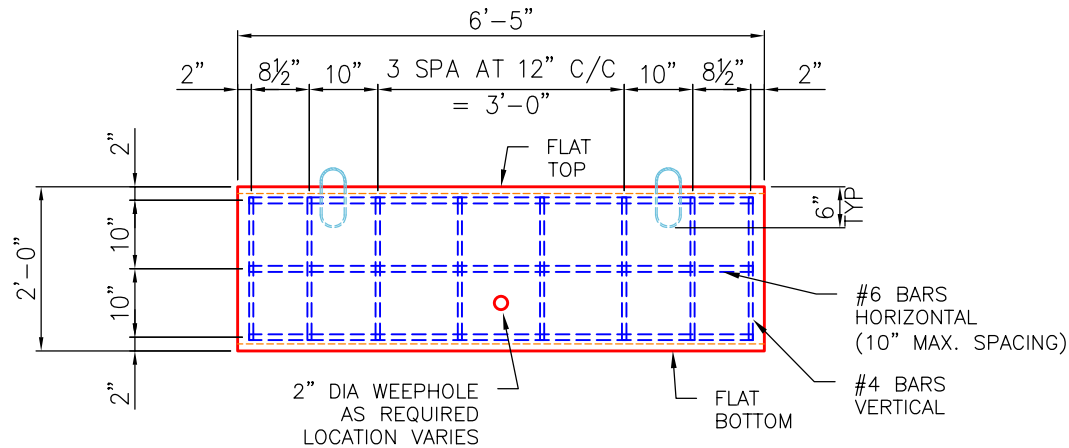
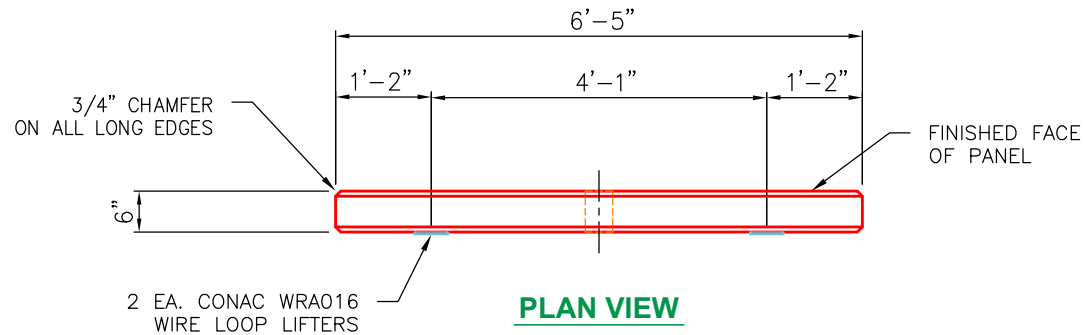
1. MANUFACTURED ASTM C913 SPECIFICATIONS.
2. CONCRETE: 4,000 PSI MINIMUM AT 28 DAYS.
3. REINFORCING: AS PER PLAN DESIGN (GRADE 60).
4. CONAC 5CA14 ANCHORS CAST IN FOR HANDLING.
5. WEIGHT = 1,413 LBS
6. 68 REQUIRED.

SIDE VIEW

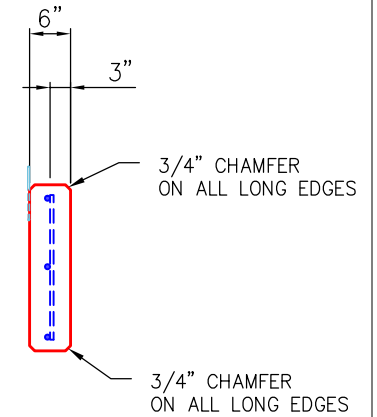
END VIEW

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 Job Location: Louisville, KY 40118 Contractor: Hall Contracting of Kentucky Inc					Plant: 100 6/16/2026 1:23:22 PM		Tech: J. Horsley PC: J. Jarvis				
Structure ID: WALL P6-P7											
P4 CUSTOM WALL				WALL PANEL 6" THICK F/F							
P4) 77" x 6" - WALL PANEL 6" THICK F/F - 2.00' 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						932 lb 1398 lb 1398 lb 1398 lb 0 lb ----- Structure Total: 5125 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: 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											
RIGHT-SIDE UP VIEW (int. dimensions) (P4) << (P3) (P2) (P1)  Note: See attached typical drawing for reinforcing and lifting details.											
INSIDE WALL DIMENSIONS (P4) 											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Flat		Wall Thickness: 0" Floor Height: 0"		Height (Int): 24" Height (Ext): 24"		Weight (Net): 932 lb Volume (Net): 0.24cu.yd	



SIDE VIEW



END VIEW

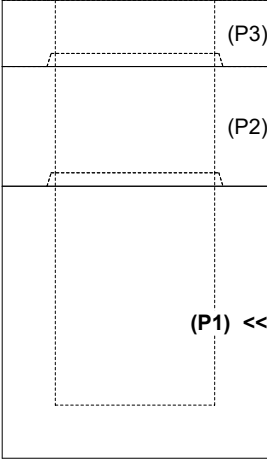
GENERAL NOTES:

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 = 914 LBS
6. 21 REQUIRED.

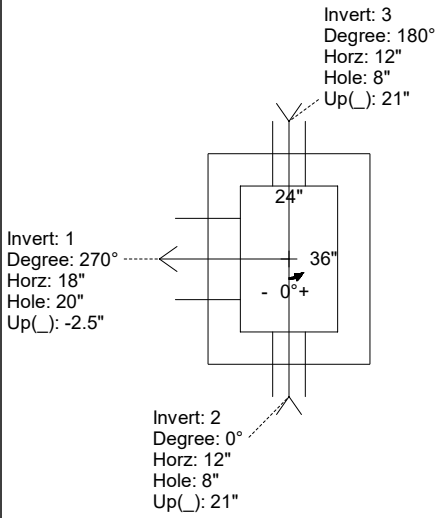
REVISION INFORMATION				SUBMITTAL DESCRIPTION: WALL PANEL 6.50' LG x 6" THK.	
REV. 	DATE:	NO REVISIONS TO DATE		CUSTOMER: HALL CONTRACTING OF KY INC.	
				PROJECT: MITCHELL HILL ROAD PROJECT	
				STRUCTURE ID.: WALL PANEL 6" THK (78" LG x 24" HT)	
				SALES ORDER NO: 26-1333	
				CHECK: B. SMITH	DRAWN BY: J. HORSLEY
				DATE: 04/20/26	SCALE: NTS PG. 1 of 1

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320) Job Location: Independence, KY Contractor: Eaton Asphalt					Plant: 100 6/4/2026 4:53:00 PM		Tech: Jared - A PC: J. Jarvis				
Structure ID: 513											
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: 842.01' 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	836.92'	270°	26"	15" ADS N-12	18"	Hole 20	20"	20"	-2.5"	0"	
Invert 2	838.84'	0°	20"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	21"	0"	
Invert 3	838.84'	180°	20"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	21"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

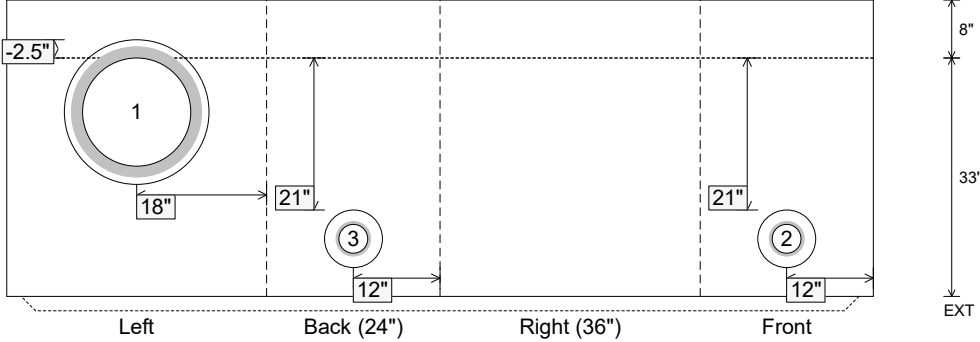
RIGHT-SIDE UP VIEW (int. dimensions)



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

Plant: Beaver Dam
6/1/2026 8:22:48 AM

Tech: J. Coppage
PC: C. Goff



Structure ID: CB-14

P1 BX3232-08BAVF

BOX BASE 8inW, 8inF, Variable Ht

- P2) 32" x 32" - CASTING HEIGHT - 7"
P1) 32" x 32" - BOX BASE 8inW, 8inF, Variable Ht - 41"
1) CASTING - JBS-3123 MODIFIED SET
1) 32" x 32" - Conseal CS-102 1.00"
1) Hole - 26
1) Hole - 6

Structure Notes:
1. PER TDOT D-CB-12LP / ASTM C913 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. JBS 3123 MOD SINGLE SET BY ICAST
5. REINFORCING PER ASTM A615 (GRADE 60).
- WALLS (As .62) #5 BARS AT 6" C.C.E.W.
- FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

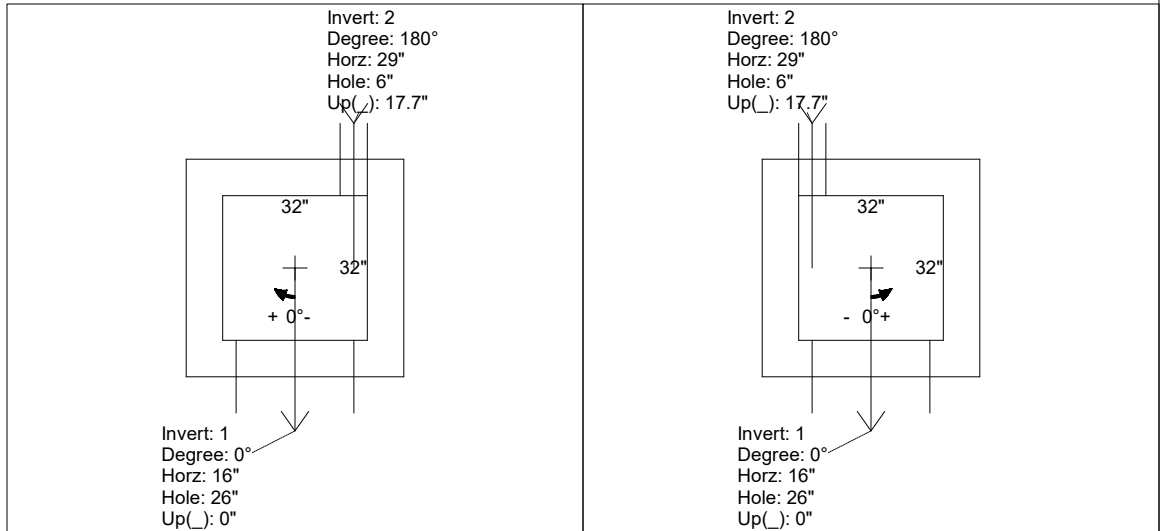
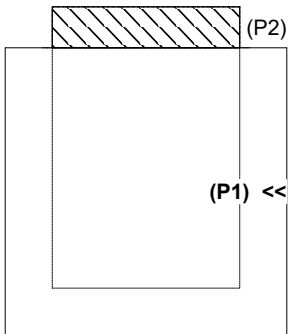
Structure Total: 5830 lb

Rim: 811.12' Rim to Invert: 3.8' Slack: 0.1" Sump: 2.5" Step Position:

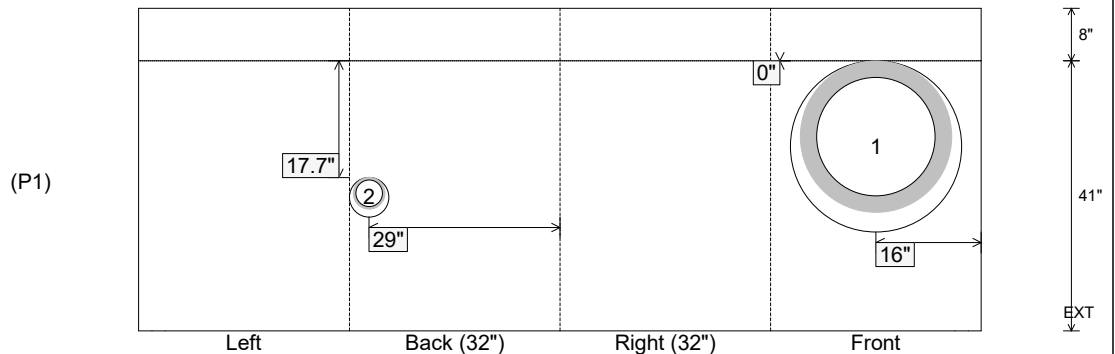
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	807.32'	0°	24"	18" RCP B WALL	23"	Hole 26	26"	26"	0"	0"
Invert 2	808.62'	180°	37"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6"	17.7"	13"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 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): 41"
Height (Ext): 49"

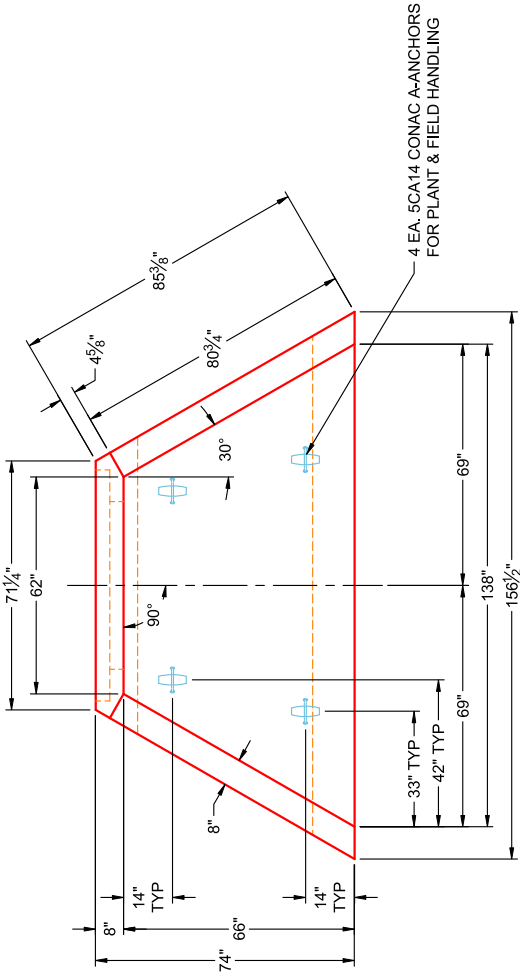
Weight (Net): 5580 lb
Volume (Net): 1.42cu.yd

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

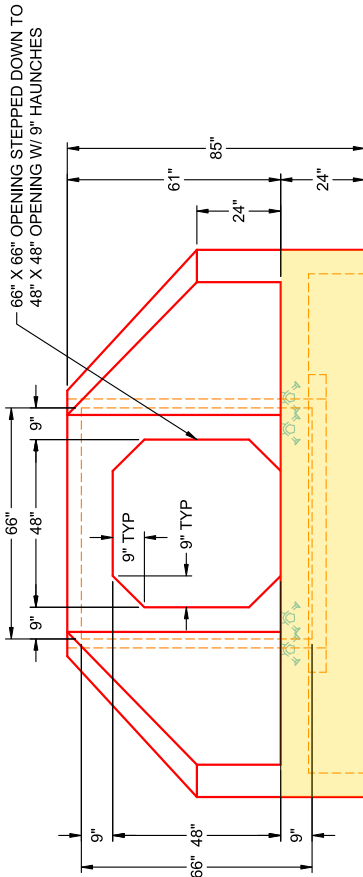
P1 HWCUSTOM

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

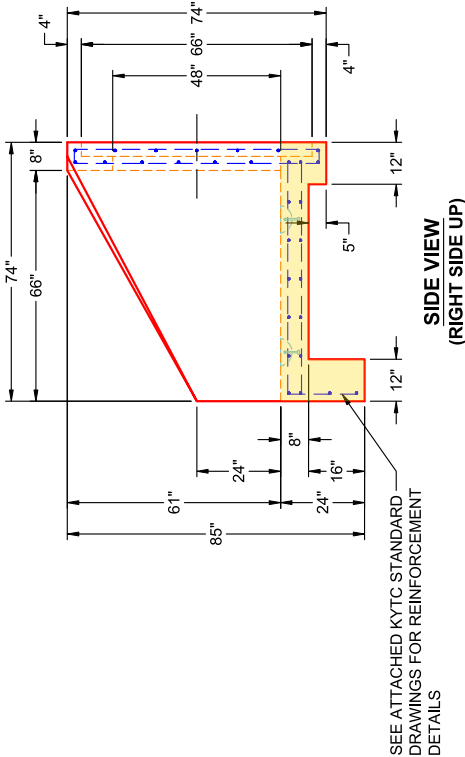
- GENERAL NOTES:**
- DRAWING TO BE USED IN CONJUNCTION WITH KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1100-02, RDH-1200-02, & RDH-1300-03
 - REINFORCEMENT PER ATTACHED KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1200-02, & RDH-1300-03 - 2" MIN. REBAR CLEARANCE (TYP)
 - CONCRETE: 5,000 PSI AT 28 DAYS
 - TOTAL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



PLAN VIEW
(RIGHT SIDE UP)

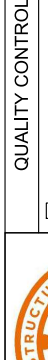


FRONT VIEW
(RIGHT SIDE UP)

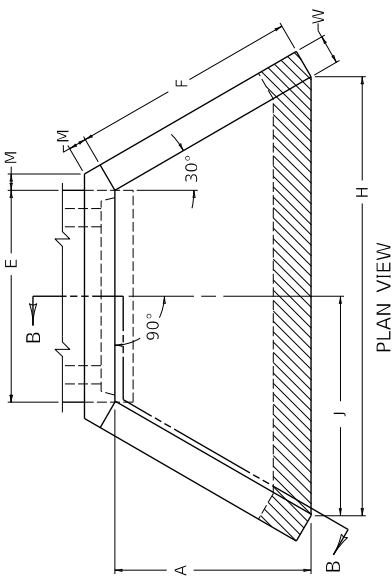


SIDE VIEW
(RIGHT SIDE UP)

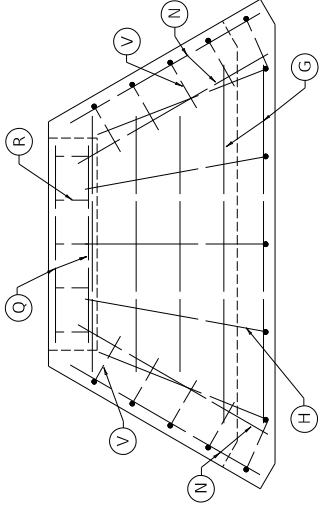
SEE ATTACHED KYTC STANDARD
DRAWINGS FOR REINFORCEMENT
DETAILS

PRODUCTION WORK ORDER		PRODUCT I.D.: HWCUSTOM	DESCRIPTION: 48" X 48" BOX CULVERT HEADWALL - 0° SKEW
	QUALITY CONTROL CHECKLIST		CUSTOMER: JIM SMITH CONTRACTING
	☐ ALL DIMENSIONS CORRECT. ☐ LIFTERS INSTALLED ☐ OPENING CENTERED. ☐ REINFORCING CORRECT. ☐ SURFACE QUALITY ACCEPTABLE. ☐ EDGES CHAMFERED. ☐ ALL PATCHWORK ACCEPTABLE.		PROJECT: KYTC MCCracken CO. CALL 200 (ID 241301)
	PRODUCT VIEW: RIGHT SIDE UP		STRUCTURE: ST. 45+00 HW (1)
	PLANT: BEAVER DAM, KY		ORDER NO: 24-1643B
	WEIGHT: 13,810 LBS		PE: J.H. ROSS
	TOP SECTION JOINT: N / A		DRAWING: K. CARDWELL
	BASE SECTION JOINT: N / A		DATE: 05/28/26
	QC CHECK INITIALS:		SCALE: NTS PG. 1 OF 1

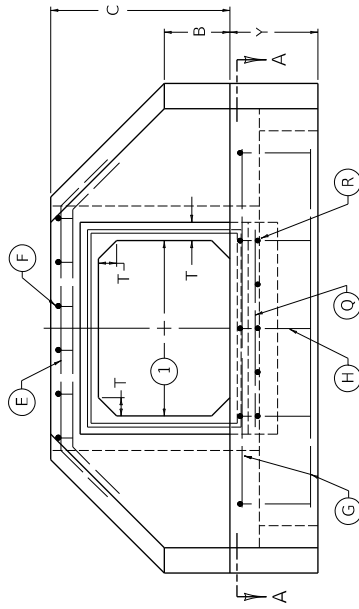
DRAWING SCALE:
1/2" = 1'



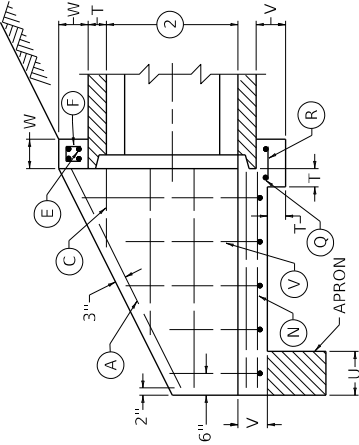
PLAN VIEW



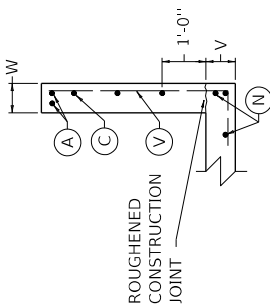
SECTION A-A



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, $\bigcirc$, INDICATE STEEL BAR LOCATIONS.
6. BARS $\bigcirc$, $\bigcirc$, AND $\bigcirc$ ARE SPACED 1'-0" O.C. ALL OTHER BARS SHALL BE EVENLY SPACED.
7. BARS $\bigcirc$ ARE PLACED IN ORDER OF INCREASING LENGTHS, BEGINNING AT THE END OF EACH WING.
8. BARS $\bigcirc$ 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 DEPARTMENT OF HIGHWAYS	
PRECAST BOX CULVERT HEADWALLS - 0° SKEW (BOX RISE LESS THAN 6'-0")	
STANDARD DRAWING NO. RDH-1000-02	
SUBMITTED _____	DIRECTOR, DIVISION OF DESIGN _____
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"							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 SIZE ①	CONCRETE 2 HEADWALLS						REINFORCEMENT 2 HEADWALLS	
	②	③	④	⑤	⑥		⑦	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 SIZE ①	CONCRETE 2 HEADWALLS						REINFORCEMENT 2 HEADWALLS	
	②	③	④	⑤	⑥		⑦	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 DEPARTMENT OF HIGHWAYS	
QUANTITIES 3' x 2' - 12' x 12' H-WALLS PRECAST BOX CULVERTS 0° SKEW	
STANDARD DRAWING NO. RDH-1200-02	
SUBMITTED _____	DIRECTOR DIVISION OF DESIGN _____ DATE _____
APPROVED _____	STATE HIGHWAY ENGINEER _____ DATE _____

