

Job Name: 26-2037 830068 Marketplace  
 Job Location: Georgetown, KY  
 Contractor: Contech Engineering Solutions

Plant: Beaver Dam  
 4/24/2026 2:06:48 PM

Tech: S. Felletter  
 PC: S. Goff



**Structure ID: 15-CS-10**

**P3 MH120RS84**

**MH RISER T/G**

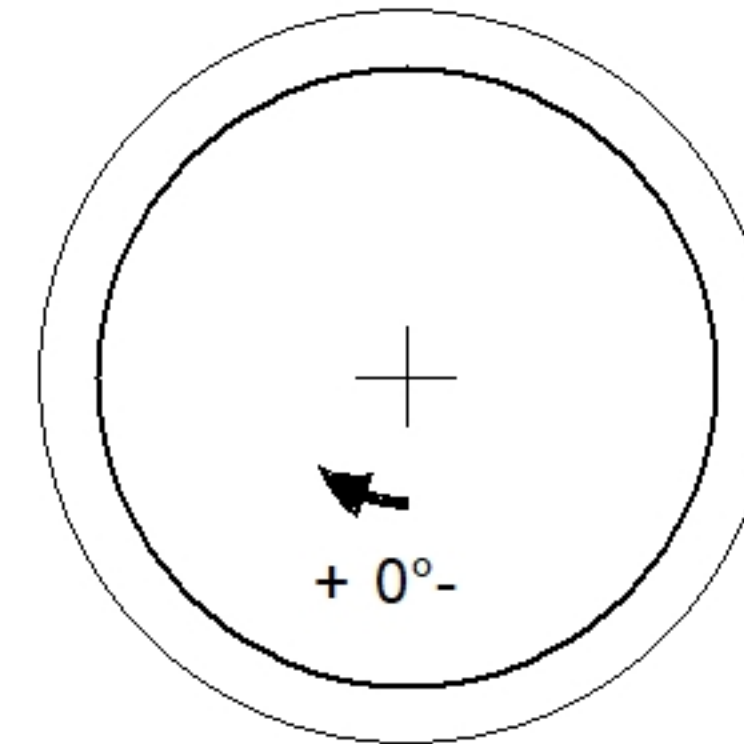
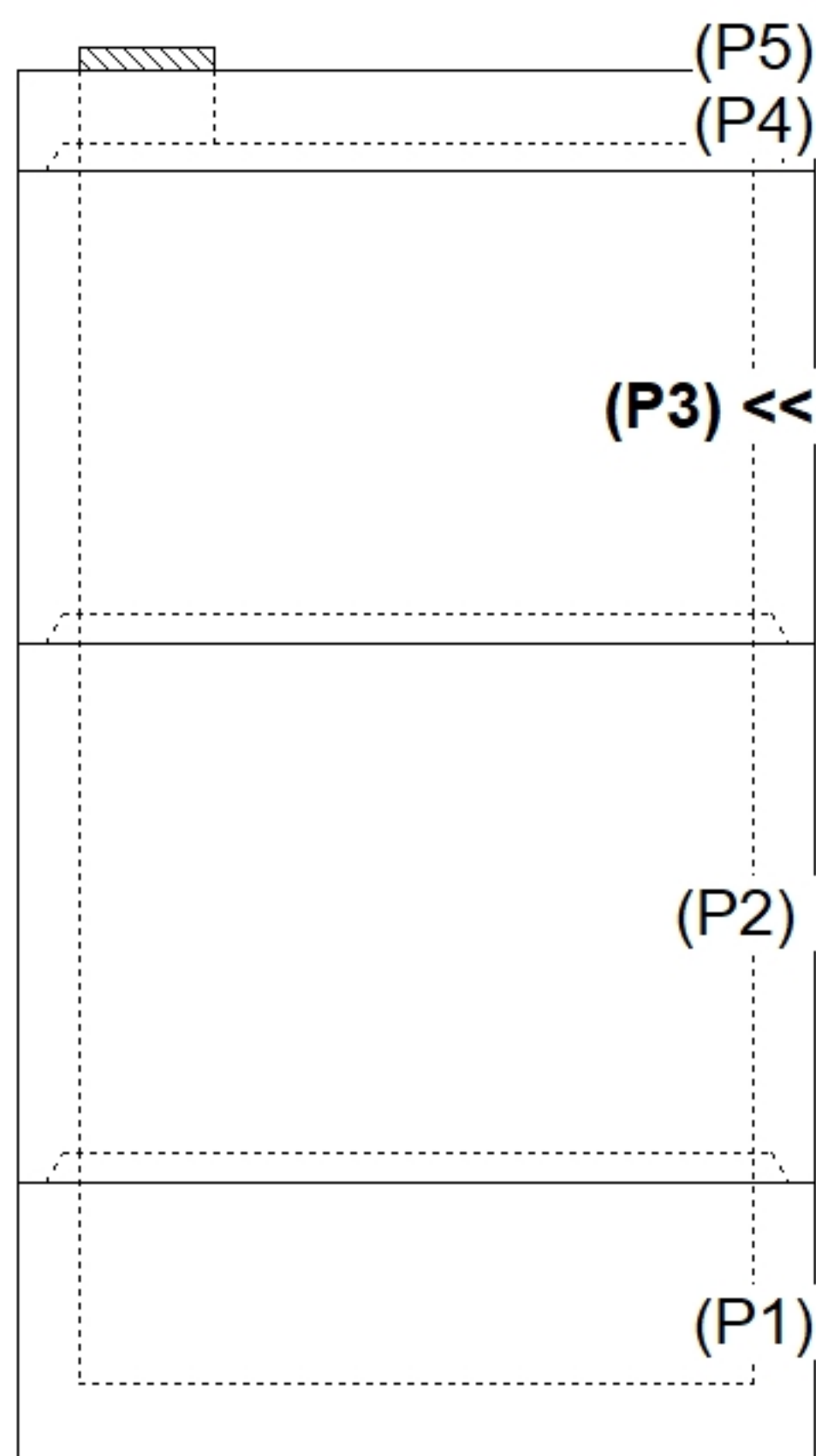
P5) 24" - CASTING HEIGHT - 4"	0 lb
P4) 120" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 18"	16223 lb
P3) 120" - MH RISER T/G - 84"	31909 lb
P2) 120" - MH RISER T/G - 96"	34322 lb
P1) 120" - MH MONOBASE 14F, Custom Ht T/n - 36"	32280 lb
1) CVSTENCILING	0 lb
1) ASSEMBLY REQUIRED - BRACKETS ONLY	0 lb
3) 120" - Conseal CS-102 1.00"	0 lb
2) Hole - 38	0 lb
<b>Structure Total:</b>	<b>114734 lb</b>

Structure Notes:  
 4" CASTING BY OTHERS  
  
 ICAST TO INSTALL THE INTERNAL BRACKETS,  
 INTERNAL COMPONENTS TO BE INSTALLED ON  
 SITE BY CONTECH FIELD CONSULTANT  
  
 CONTECH'S LOGO AS WELL AS THE  
 INLET AND OUTLET MUST BE  
 STENCILED ONTO THE STRUCTURE

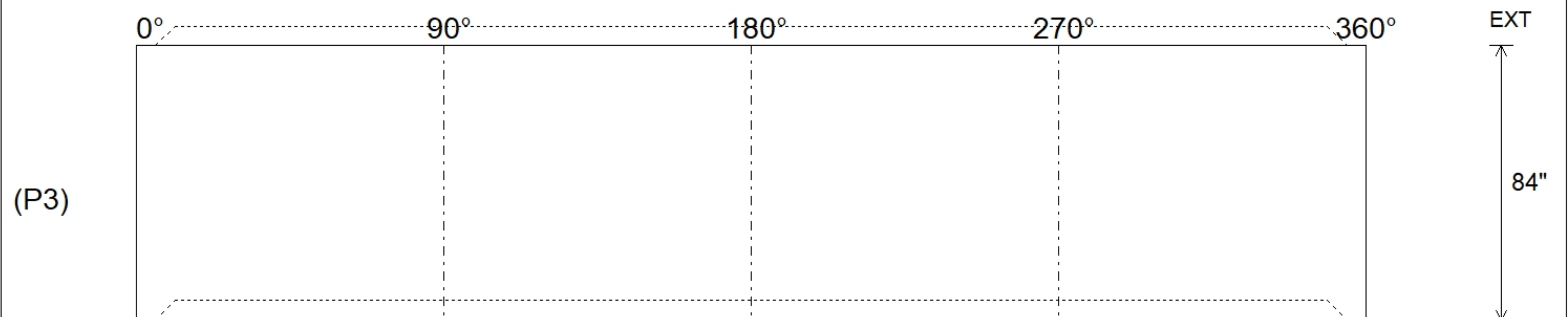
Rim: 833.75' Rim to Invert: 12.25' Slack: 1.076" Sump: 92.076" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	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):	Seam Up: Tongue	Wall Thickness: 11"	Height (Int): 84"	Weight (Net): 31909 lb
Coating (Ext):	Seam Dn: Groove	Floor Height: 0"	Height (Ext): 84"	Volume (Net): 8.15cu.yd

**Structure ID: 30-CS-10**

**P3 MH120RS90**

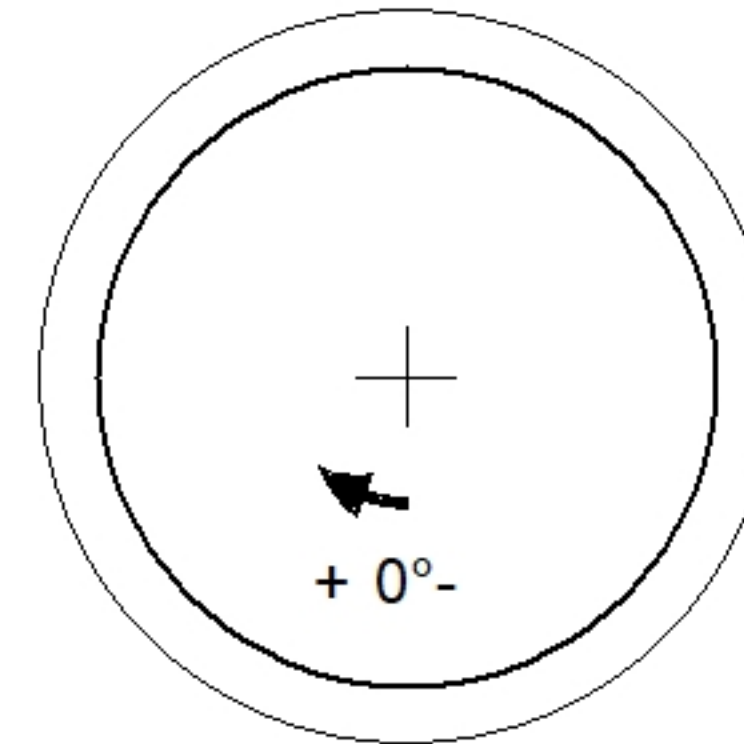
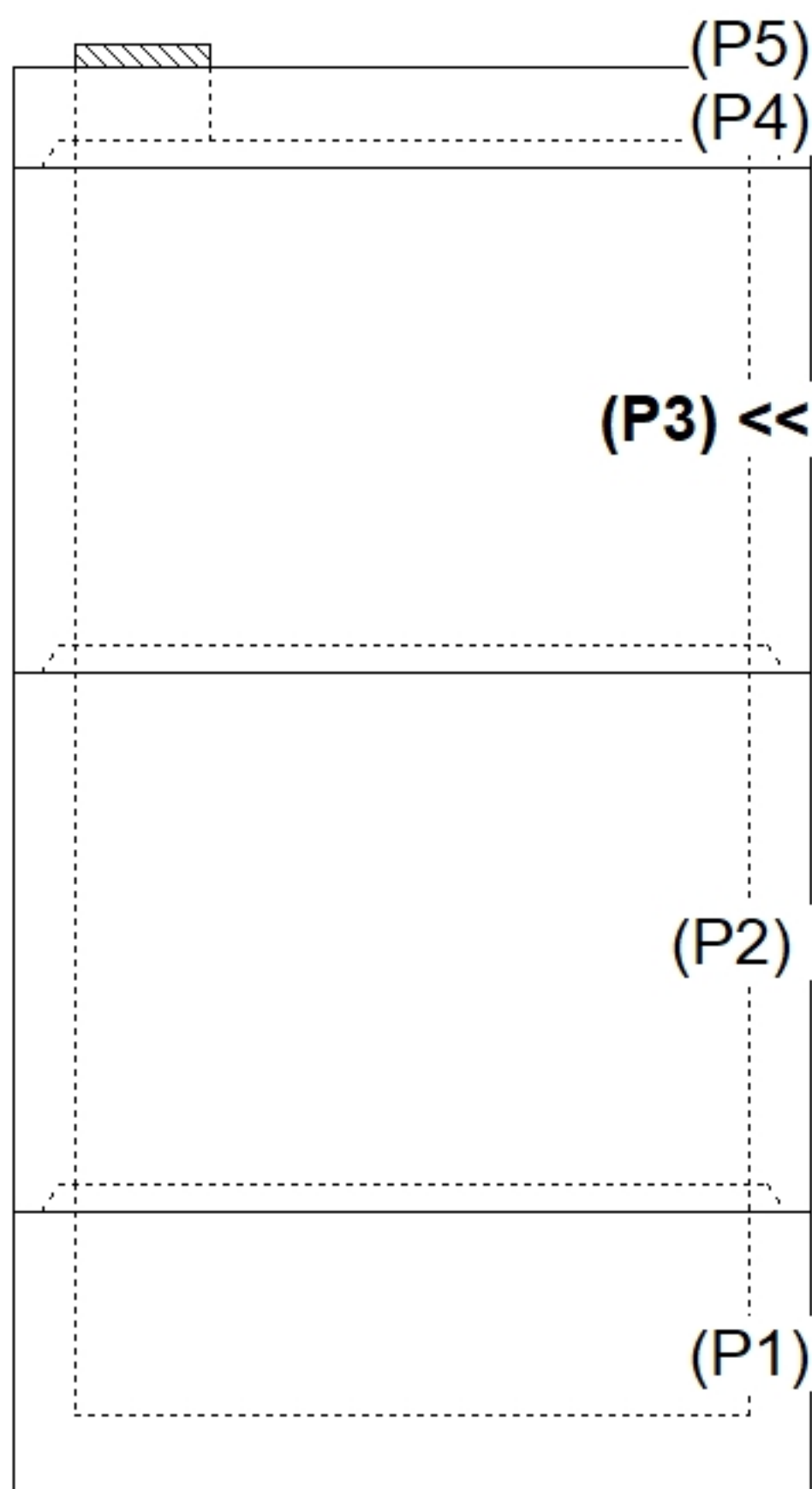
**MH RISER T/G**

P5) 24" - CASTING HEIGHT - 4" P4) 120" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 18" P3) 120" - MH RISER T/G - 90" P2) 120" - MH RISER T/G - 96" P1) 120" - MH MONOBASE 14F, Custom Ht T/n - 36" 1) CVSTENCILING 1) ASSEMBLY REQUIRED - BRACKETS ONLY 3) 120" - Conseal CS-102 1.00" 2) Hole - 38	0 lb 16223 lb 34189 lb 34322 lb 32280 lb 0 lb 0 lb 0 lb 0 lb ----- 0 lb	<b>Structure Notes:</b> 4" CASTING BY OTHERS  ICAST TO INSTALL THE INTERNAL BRACKETS, INTERNAL COMPONENTS TO BE INSTALLED ON SITE BY CONTECH FIELD CONSULTANT  CONTECH'S LOGO AS WELL AS THE INLET AND OUTLET MUST BE STENCILED ONTO THE STRUCTURE
Structure Total: 117013 lb		

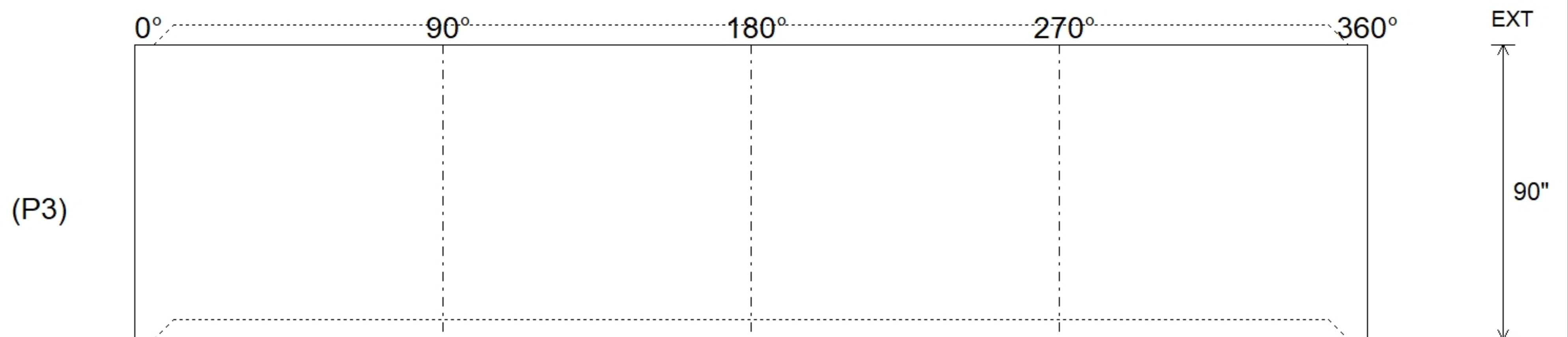
Rim: 834.9'    Rim to Invert: 13.4'    Slack: 8.876"    Sump: 92.076"    Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	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: 11" Floor Height: 0"	Height (Int): 90" Height (Ext): 90"	Weight (Net): 34189 lb Volume (Net): 8.73cu.yd
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Job Name: 25-4299 - Seneca High School  
 Job Location: Louisville, KY  
 Contractor: Dan Cristiani Excavating Co. Inc.

Plant: 100

Tech: J. Horsley

2/16/2026 10:16:58 AM

PC: J. Jarvis



**Structure ID: E4**

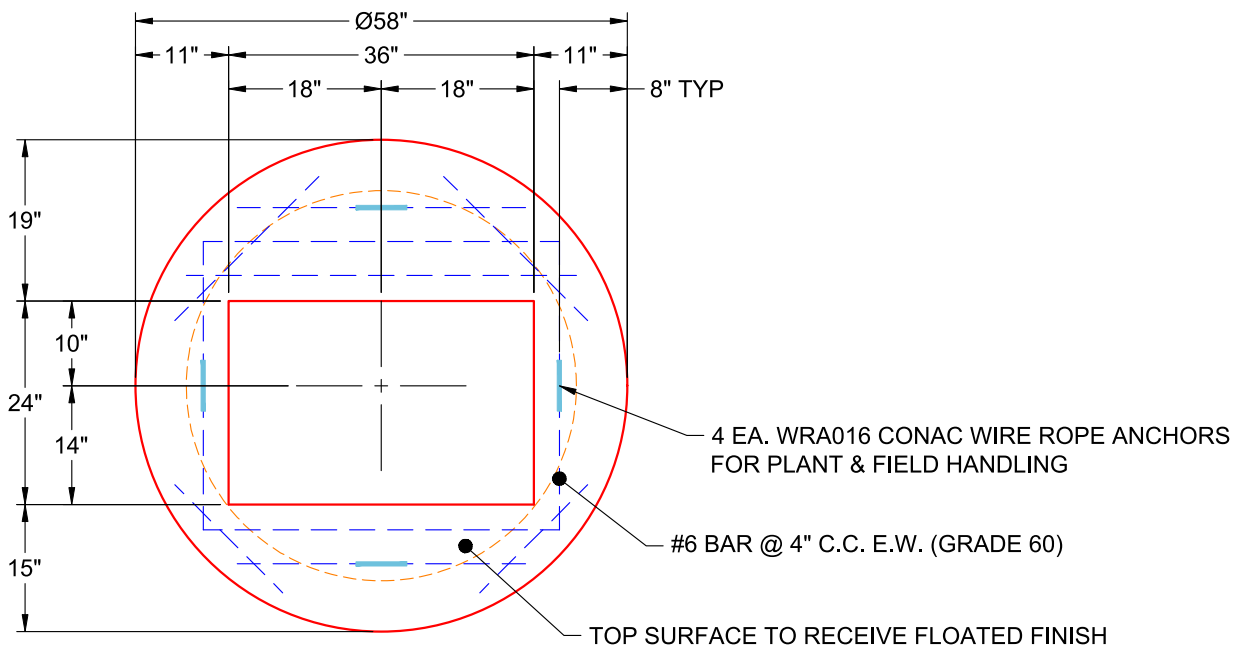
**P2 MH048LD07-2436 LOU-MSD**

**MH FLAT TOP w/24"x36" Hole LOU-MSD F/F**

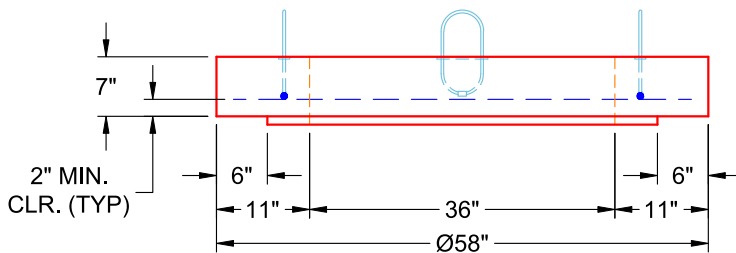
- P3) 24" x 36" - CASTING HEIGHT - 6"
- P2) 48" - MH FLAT TOP w/24"x36" Hole LOU-MSD F/F - 7"
- P1) 48" - MH BASE Custom Ht F/n - 26"
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 1) Hole - 20
- 1) Hole - 16

0 lb  
 1044 lb  
 2926 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 0 lb  
 Structure Total: 3970 lb

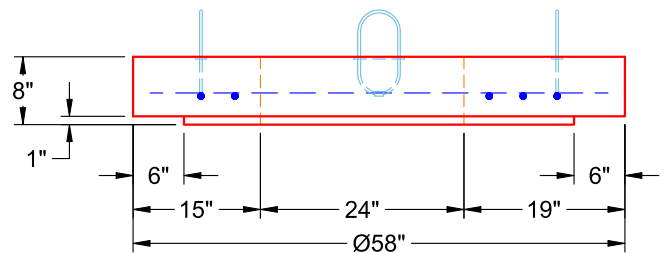
- Structure Notes:
1. PER LOUISVILLE MSD / ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT: #6 BAR @ 4" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  4. HOE 470 FRAME, GRATE, & CURB HOOD SUPPLIED BY OTHERS
  5. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
  6. TOP SURFACE TO RECEIVE FLOATED FINISH



**PLAN VIEW  
(RIGHT SIDE UP)**



**FRONT VIEW  
(RIGHT SIDE UP)**



**SIDE VIEW  
(RIGHT SIDE UP)**

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: Flat

Wall Thickness: 5"

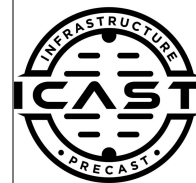
Height (Ext): 7"

Weight (Net): 1044 lb  
 Volume (Net): 0.27cu.yd

Job Name: 25-4299 - Seneca High School  
 Job Location: Louisville, KY  
 Contractor: Dan Cristiani Excavating Co. Inc.

Plant: 100  
 2/16/2026 10:16:34 AM

Tech: J. Horsley  
 PC: J. Jarvis



**Structure ID: E4**

**P1 MH048BAVF**

**MH BASE Custom Ht F/n**

- P3) 24" x 36" - CASTING HEIGHT - 6"
- P2) 48" - MH FLAT TOP w/24"x36" Hole LOU-MSD F/F - 7"
- P1) 48" - MH BASE Custom Ht F/n - 26"
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 1) Hole - 20
- 1) Hole - 16

0 lb  
 1044 lb  
 2926 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 0 lb  
 Structure Total: 3970 lb

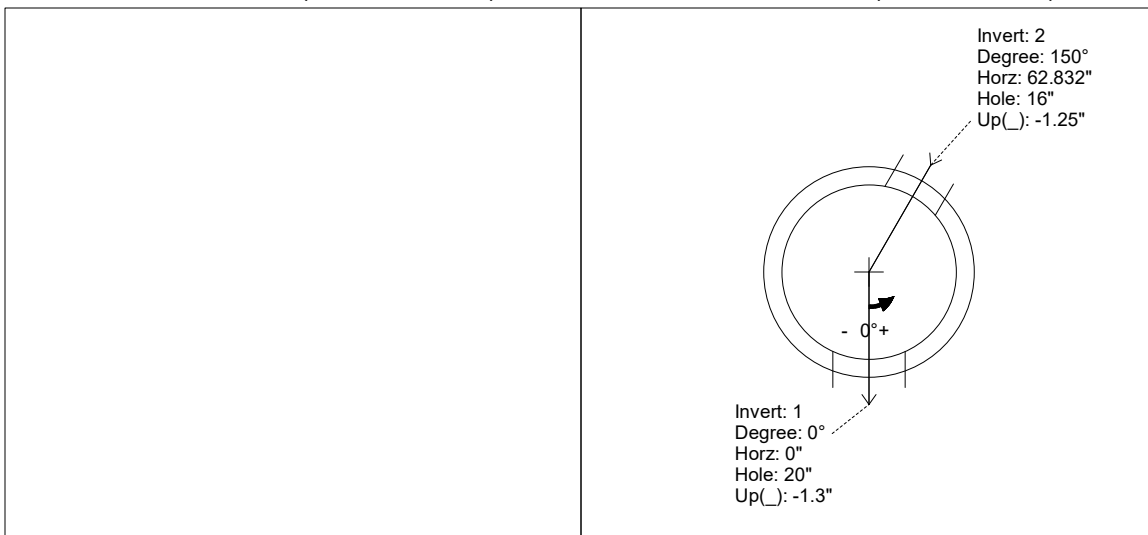
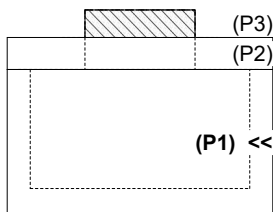
- Structure Notes:**
1. PER LOUISVILLE MSD / ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT: PER ASTM A615
  4. NO STORM INVERT
  5. NO STEPS
  6. HOE 470 FRAME, GRATE, & CURB HOOD SUPPLIED BY OTHERS

Rim: 487.65' Rim to Invert: 3.3' Slack: 0.6" Sump: 0" Step Position:

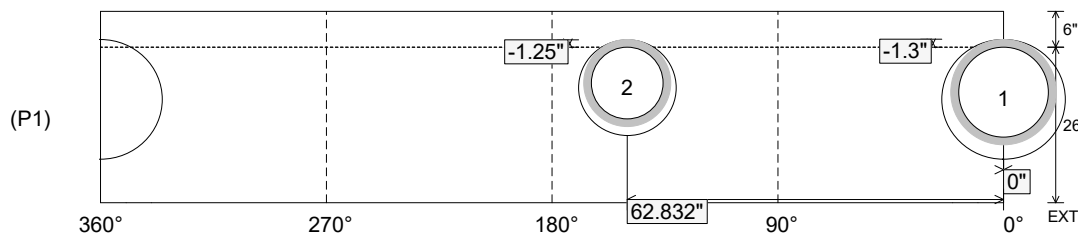
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	484.35'	0°	0"	15" HDPE	17.6"	Hole 20	20"	20.629"	-1.3"	0"
Invert 2	484.35'	150°	75.922"	12" HDPE	14.5"	Hole 16	16"	16.312"	-1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

Height (Int): 26"  
 Height (Ext): 32"

Weight (Net): 2926 lb  
 Volume (Net): 0.75cu.yd

Job Name: 26-1227 - Project Colt  
 Job Location: Evansville, IN  
 Contractor: Russell's Excavating

Plant: 100  
 5/13/2026 1:00:11 PM

Tech: Jared - F  
 PC: A. Chambers



**Structure ID: 108-18 MHK**

**P4 MH048LD07-24X36RECT**

**MH FLAT TOP w/24"x36" Hole F/F**

- P5) 24" x 36" - CASTING HEIGHT - 4"
- P4) 48" - MH FLAT TOP w/24"x36" Hole F/F - 7"
- P3) 48" - MH RISER Custom Ht F/G - 23"
- P2) 72" - MH Transition Slab 48" Hole T/G - 15"
- P1) 72" - MH BASE Custom Ht T/n - 62"
- 1) CASTING - HOE 518 F/G
- 1) 72" - Conseal CS-102 1.00"
- 2) 48" - Conseal CS-102 1.00"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 2) Hole - 50
- 2) Hole - 6
- 8) MH Step ML-10-TDS-NCR - 10"

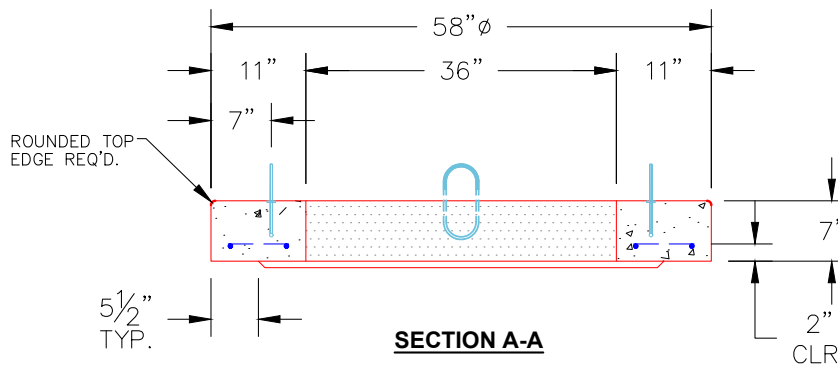
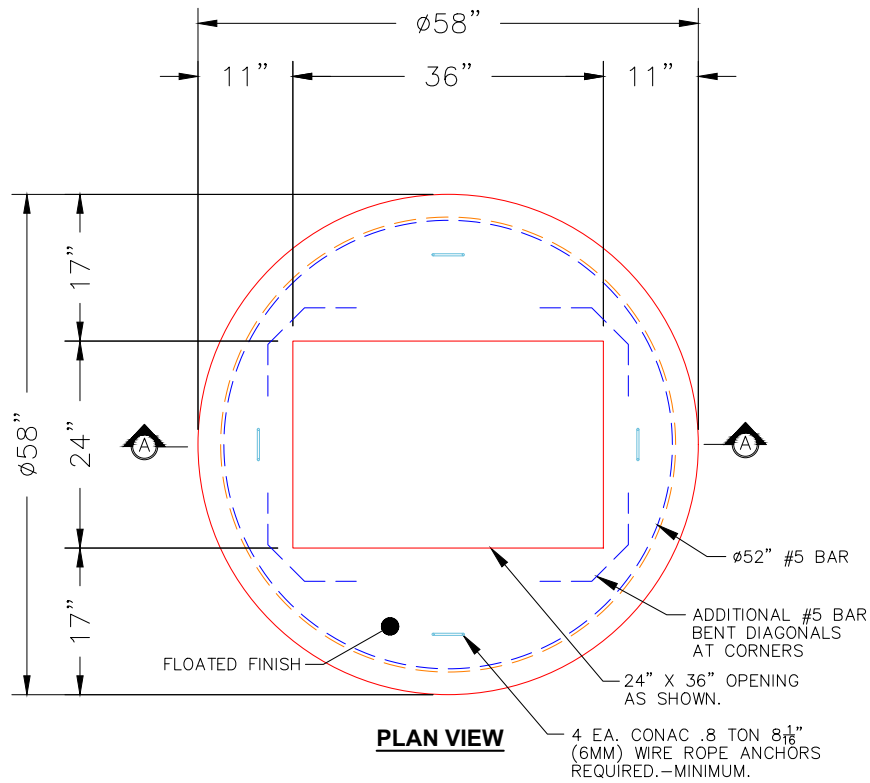
0 lb  
 1044 lb  
 1583 lb  
 3864 lb  
 10432 lb  
 354 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 17278 lb

**Structure Notes:**

1. INDOT MH TYPE K / ASTM C478 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. CASTING BY ICAST (HOE 518 F/G).

**REINFORCING PER ASTM A615 (GRADE 60).**

- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .12)
- TRANS. SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .18)
- FLOOR (As .37) #5 BARS AT 10" C.C.E.W.



**NOTES:**

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

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 5"	Height (Ext): 7"	Weight (Net): 1044 lb Volume (Net): 0.27cu.yd
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Job Name: 25-4733 - The Paddock  
 Job Location: Springfield, KY  
 Contractor: Core & Main LP (Lou)

Plant: 100

Tech: Jared - F

5/14/2026 1:09:00 PM

PC: T. Lewis



**Structure ID: STMH-D1**

**P1 MH048BA36**

**MH BASE T/n**

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P1) 48" - MH BASE T/n - 36"
- 1) CASTING - HOE MC-315 F/C Storm
- 1) 48" - Conseal CS-102 1.00"
- 2) Hole - 20
- 3) MH Step ML-10-TDS-NCR - 10"

0 lb  
 1561 lb  
 3575 lb  
 258 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 5394 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. CASTING BY ICAST (HOE MC-315 F/C STORM).

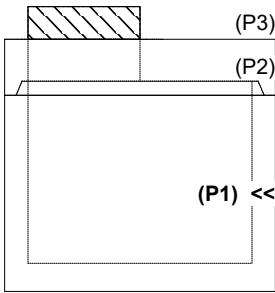
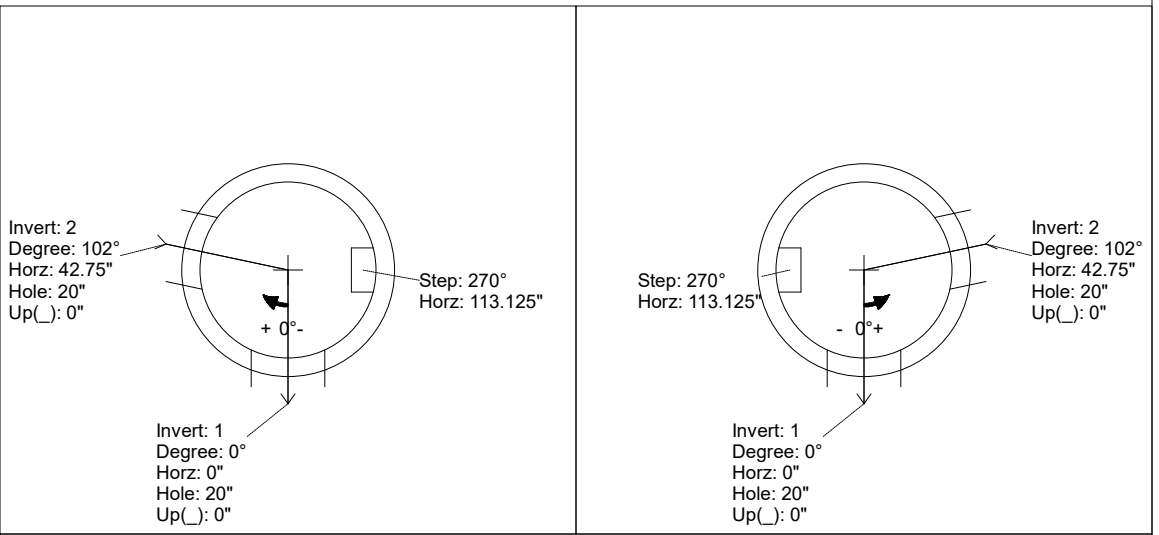
REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 885.01' Rim to Invert: 4.55' Slack: 0.9" Sump: 1.3" Step Position: 270

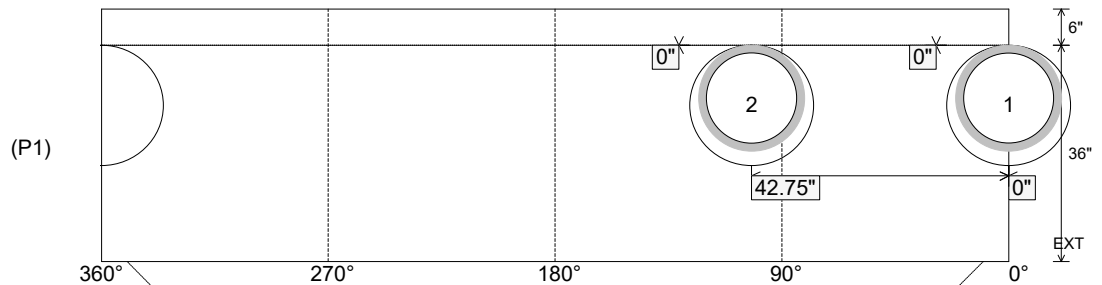
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	880.46'	0°	0"	15" HDPE	17.6"	Hole 20	20"	20.629"	0"	0"
Invert 2	880.46'	102°	51.625"	15" HDPE	17.6"	Hole 20	20"	20.629"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
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: 5"  
 Floor Height: 6"

Height (Int): 36"  
 Height (Ext): 42"

Weight (Net): 3575 lb  
 Volume (Net): 0.91cu.yd

Job Name: 25-4733 - The Paddock  
 Job Location: Springfield, KY  
 Contractor: Core & Main LP (Lou)

Plant: 100  
 5/14/2026 1:08:54 PM

Tech: Jared - F  
 PC: T. Lewis



**Structure ID: SSWR-9**

**P1 MH048BA24**

**MH BASE T/n**

P3) 24" - CASTING HEIGHT - 7"	0 lb
P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"	1561 lb
P1) 48" - MH BASE T/n - 24"	2959 lb
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) 48" - MH INVERT CHANNEL - FULL HEIGHT	1440 lb
1) CASTING - HOE MC-315 F/C Sanitary	258 lb
1) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) PSX - 12-06 NYLO	8 lb
1) MH Step ML-10-TDS-NCR - 10"	0 lb
<b>Structure Total:</b>	<b>6226 lb</b>

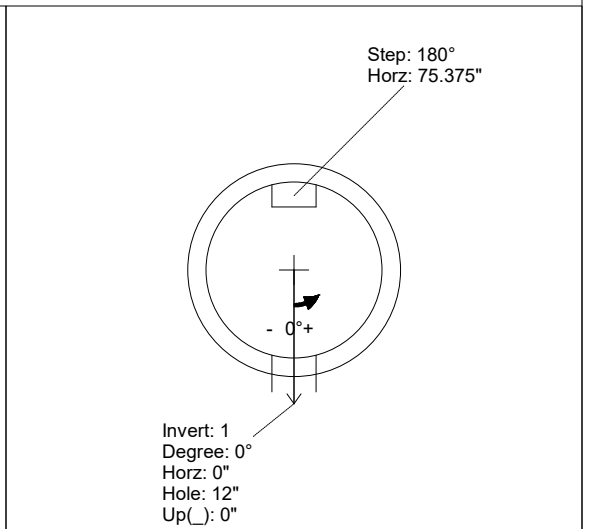
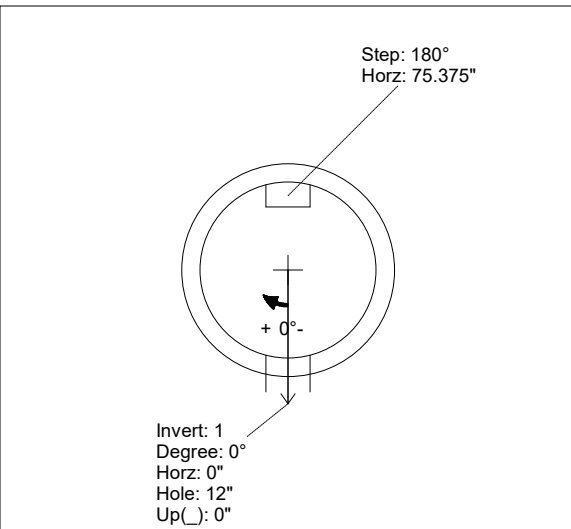
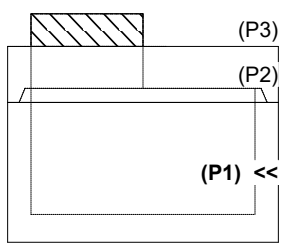
**Structure Notes:**  
 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. CASTING BY ICAST (HOE MC-315 F/C SANITARY).  
  
 REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB = H2O LOADING.  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 885.26' Rim to Invert: 3.5' Slack: 2" Sump: 3" Step Position: 180°

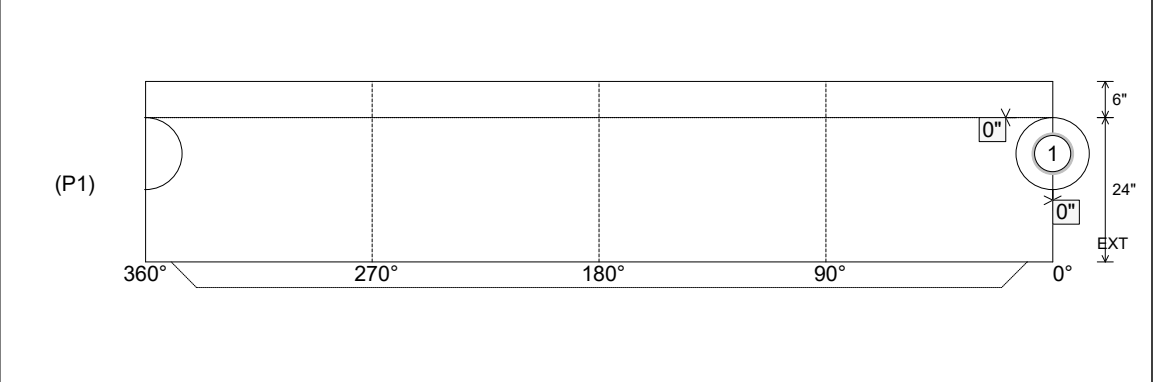
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	881.76'	0°	0"	6" PVC C900	6.9"	PSX 12-06 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

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
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Job Name: 25-4733 - The Paddock  
 Job Location: Springfield, KY  
 Contractor: Core & Main LP (Lou)

Plant: 100  
 5/14/2026 1:08:54 PM

Tech: Jared - F  
 PC: T. Lewis



**Structure ID: SSWR-9**

**P1 MH048BA24**

**MH BASE T/n**

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P1) 48" - MH BASE T/n - 24"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 1) CASTING - HOE MC-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) PSX - 12-06 NYLO
- 1) MH Step ML-10-TDS-NCR - 10"

0 lb  
 1561 lb  
 2959 lb  
 0 lb  
 0 lb  
 1440 lb  
 258 lb  
 0 lb  
 8 lb  
 0 lb  
 -----  
 Structure Total: 6226 lb

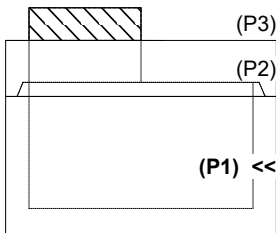
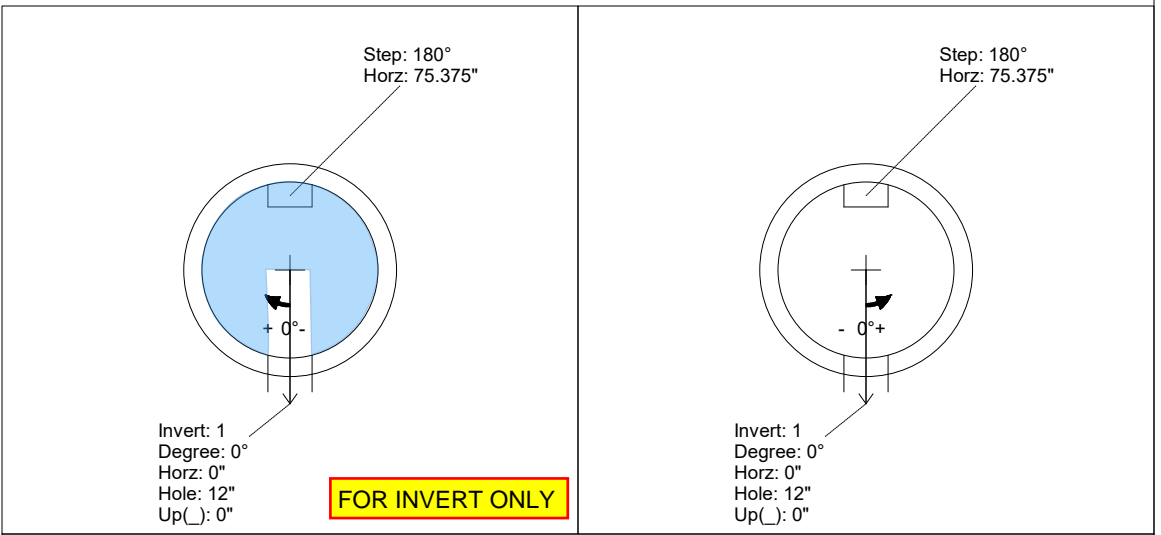
**Structure Notes:**  
 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. CASTING BY ICAST (HOE MC-315 F/C SANITARY).  
  
 REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB = H2O LOADING.  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 885.26' Rim to Invert: 3.5' Slack: 2" Sump: 3" Step Position: 180°

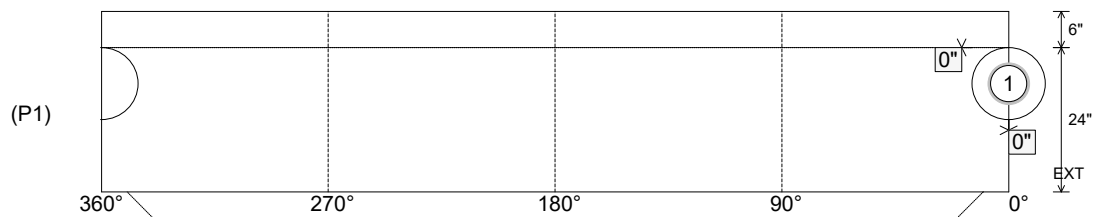
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	881.76'	0°	0"	6" PVC C900	6.9"	PSX 12-06 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

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: 26-1219 - 1662 Pinkerton Road  
 Job Location: Brentwood, TN  
 Contractor: Hayes Pipe Supply

Plant: 100  
 5/11/2026 5:33:37 PM

Tech: Jared - F  
 PC: T. Ryan



**Structure ID: 5-9 SS-MH**

**P2 MH048RS60CDARED**

**MH RISER w/ConBlock-CDA Red T/G**

- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - CON 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
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) PSX - 12-08 NYLO
- 2) PSX - 12-06 NYLO
- 10) MH Step ML-10-TDS-NCR - 10"

0 lb  
 2251 lb  
 4192 lb  
 3282 lb  
 0 lb  
 0 lb  
 1440 lb  
 0 lb  
 8 lb  
 16 lb  
 0 lb  
 -----  
 Structure Total: 11189 lb

Structure Notes:

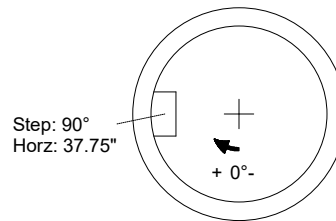
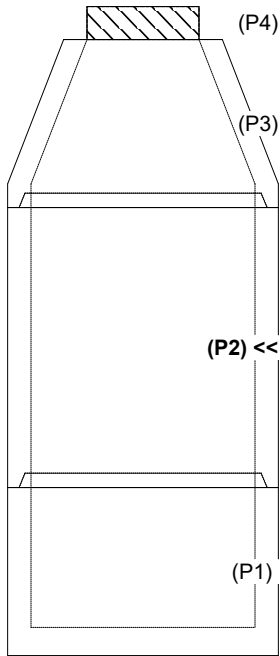
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. ADMIXTURE = CONBLOCK CDA RED.
4. CASTING SUPPLIED BY OTHERS.

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

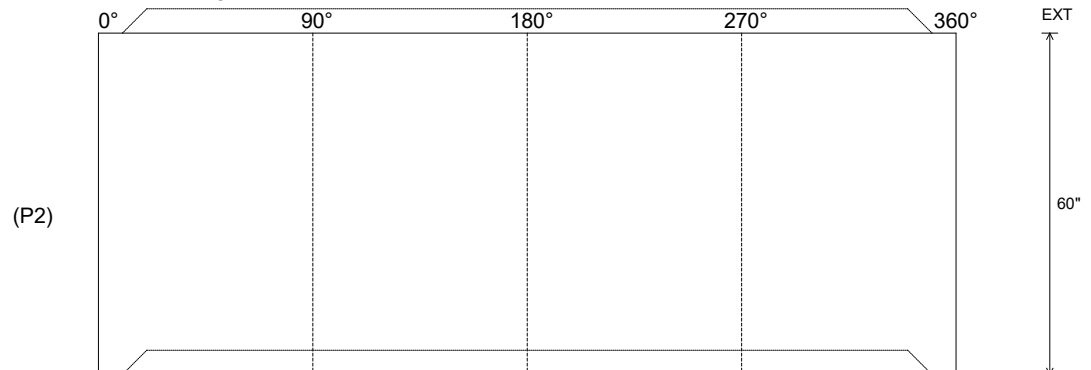
Rim: 581.79' Rim to Invert: 11.07' Slack: 1.84" Sump: 2" Step Position: 90

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	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: 25-4279 - KYTC Christian Co (251031)  
 Job Location: Hopkinsville, KY  
 Contractor: CITCO Water

Plant: 100

5/8/2026 11:22:41 AM

Tech: Jared- F

PC: C. Goff



**Structure ID: 105+86 ARV**

**P3 MH048LD12ECC**

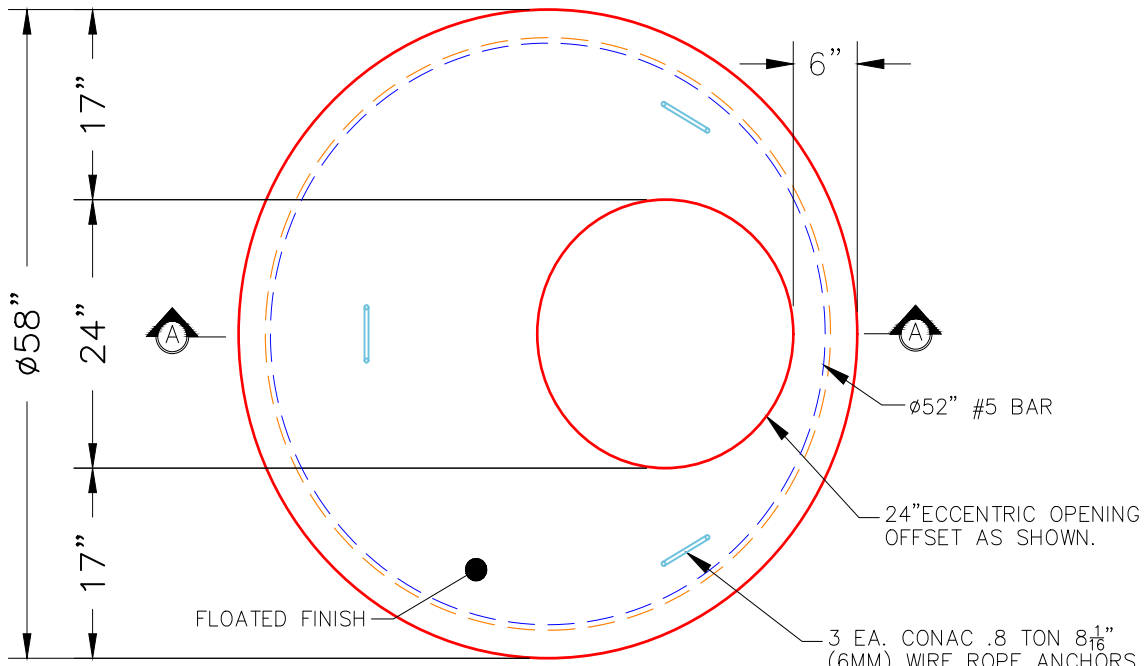
**MH FLAT TOP w/ 24" ECC Hole F/G**

- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P2) 48" - MH DH RISER Custom Ht T/F - 37"
- P1) 48" - P.I.P. BY OTHERS - BTM SLAB F/n - 0"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) DOGHOUSE - 8"x8"

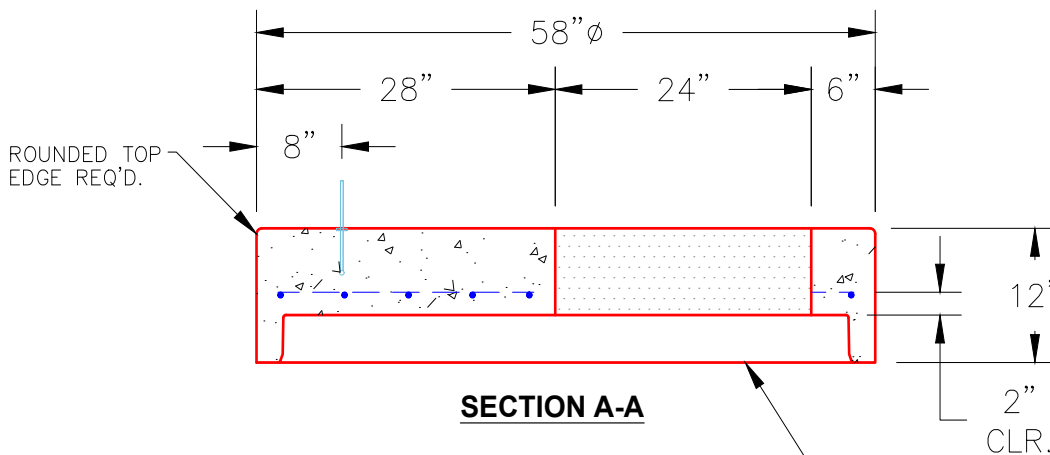
	0 lb
	1561 lb
	2506 lb
	0 lb
	0 lb
	0 lb
	0 lb
	0 lb
	0 lb
Structure Total:	4067 lb

**Structure Notes:**  
 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO STEPS.  
 4. CASTING SUPPLIED BY OTHERS.

REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB = H20 LOADING.  
 - RISER/WALLS (As .12)



**PLAN VIEW**



**SECTION A-A**

**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).

STANDARD SINGLE OFFSET GROOVE JOINT REQUIRED

Job Name: 25-4279 - KYTC Christian Co (251031)  
 Job Location: Hopkinsville, KY  
 Contractor: CITCO Water

Plant: 100

5/8/2026 11:22:41 AM

Tech: Jared- F

PC: C. Goff



**Structure ID: 96+65 ARV**

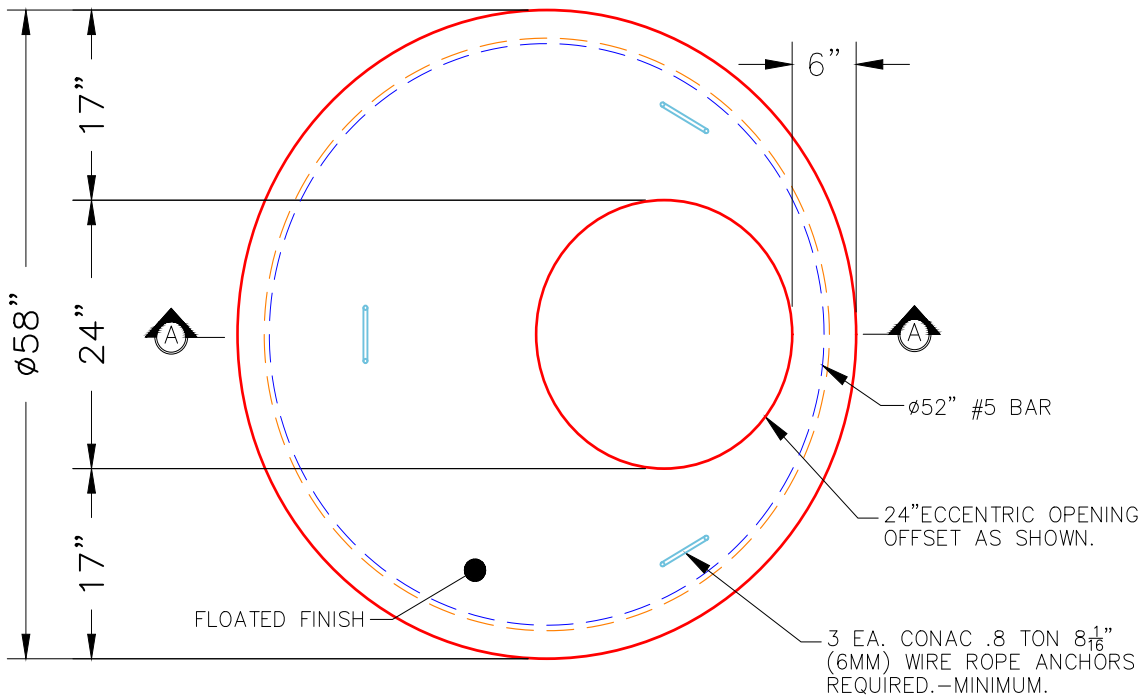
**P3 MH048LD12ECC**

**MH FLAT TOP w/ 24" ECC Hole F/G**

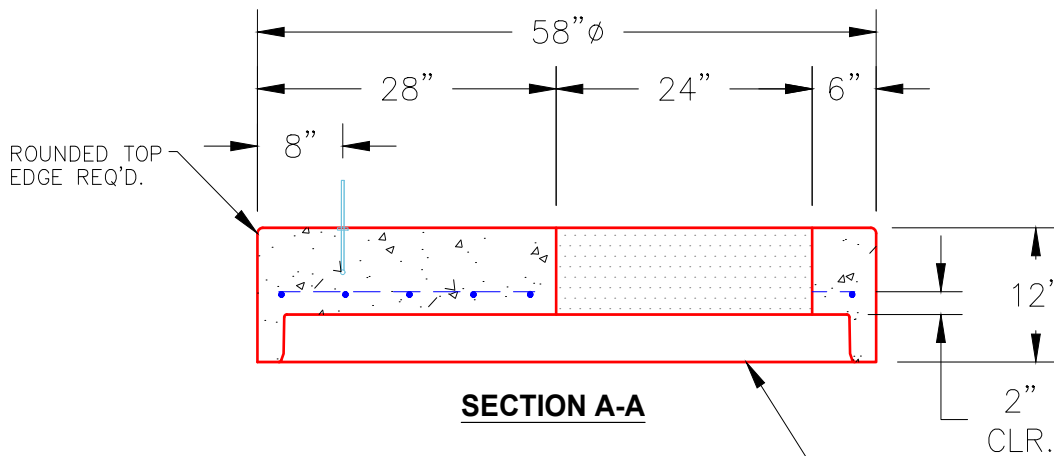
- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P2) 48" - MH DH RISER Custom Ht T/F - 38"
- P1) 48" - P.I.P. BY OTHERS - BTM SLAB F/n - 0"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) DOGHOUSE - 8"x8"

0 lb  
 1561 lb  
 2580 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 Structure Total: 4141 lb

**Structure Notes:**  
 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO STEPS.  
 4. CASTING SUPPLIED BY OTHERS.  
  
 REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB = H20 LOADING.  
 - RISER/WALLS (As .12)



**PLAN VIEW**



**SECTION A-A**

**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):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 12"	Weight (Net): 1561 lb Volume (Net): 0.42cu.yd
----------------------------------	----------------------------------	--------------------	-------------------	--

Job Name: 25-4279 - KYTC Christian Co (251031)  
 Job Location: Hopkinsville, KY  
 Contractor: CITCO Water

Plant: 100

5/8/2026 11:23:30 AM

Tech: Jared- F

PC: C. Goff



**Structure ID: 117+51 ARV**

**P2 MH048DHVF**

**MH DH RISER Custom Ht T/F**

- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P2) 48" - MH DH RISER Custom Ht T/F - 34"
- P1) 48" - P.I.P. BY OTHERS - BTM SLAB F/n - 0"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) DOGHOUSE - 8"x8"

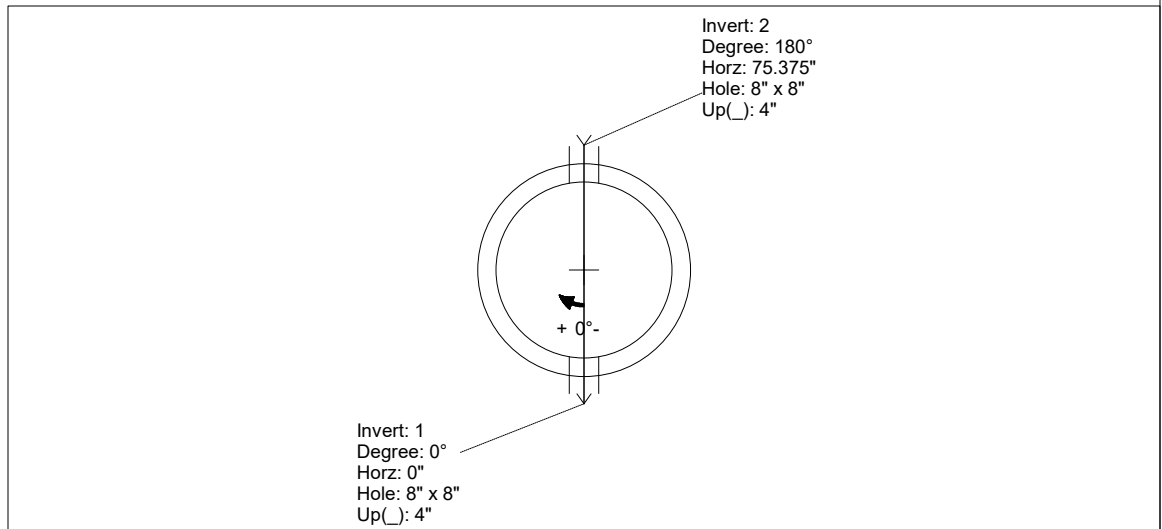
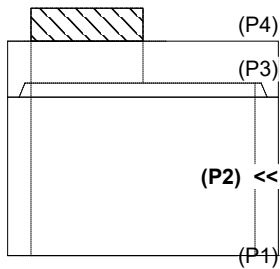
0 lb  
 1561 lb  
 2300 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 3861 lb

**Structure Notes:**  
 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO STEPS.  
 4. CASTING SUPPLIED BY OTHERS.  
  
 REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB = H2O LOADING.  
 - RISER/WALLS (As .12)

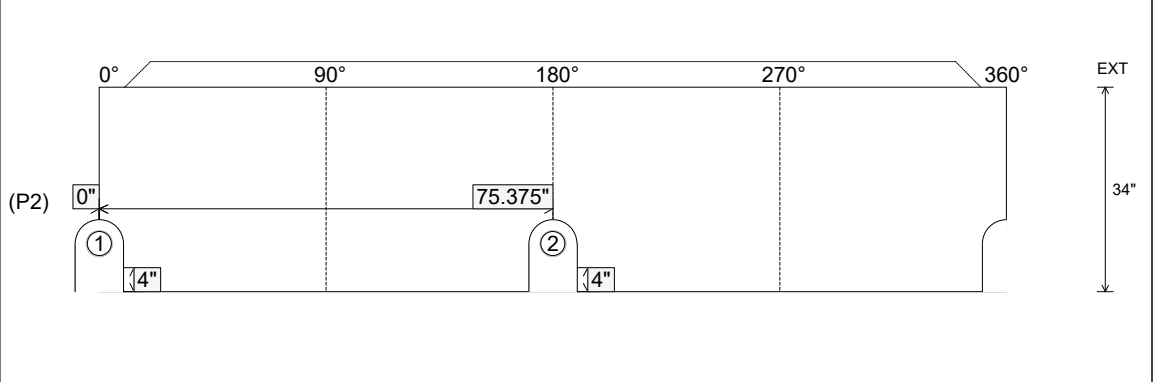
Rim: 562.08' Rim to Invert: 3.92' Slack: 0.04" Sump: 6" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	558.16'	0°	0"	4" PVC SDR21	4.375"	DOGHOUSE 8"x8"	8" x 8"	8.038"	4"	0"
Invert 2	558.16'	180°	91.125"	4" PVC SDR21	4.375"	DOGHOUSE 8"x8"	8" x 8"	8.038"	4"	0"
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: Flat	Wall Thickness: 5" Floor Height: 0"	Height (Int): 34" Height (Ext): 34"	Weight (Net): 2300 lb Volume (Net): 0.59cu.yd
----------------------------------	----------------------------------	--	--	--

Job Name: 25-4279 - KYTC Christian Co (251031)  
 Job Location: Hopkinsville, KY  
 Contractor: CITCO Water

Plant: 100  
 5/8/2026 11:23:27 AM

Tech: Jared- F  
 PC: C. Goff



**Structure ID: 85+24 ARV**

**P2 MH048DHVF**

**MH DH RISER Custom Ht T/F**

- P4) 24" - CASTING HEIGHT - 7" 0 lb
- P3) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12" 1561 lb
- P2) 48" - MH DH RISER Custom Ht T/F - 35" 2360 lb
- P1) 48" - P.I.P. BY OTHERS - BTM SLAB F/n - 0" 0 lb
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 0 lb
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 0 lb
- 2) 48" - Conseal CS-102 1.00" (Double) 0 lb
- 1) DOGHOUSE - 8"x8" 0 lb
- 1) DOGHOUSE - 8"x10" 0 lb

Structure Total: 3921 lb

Structure Notes:

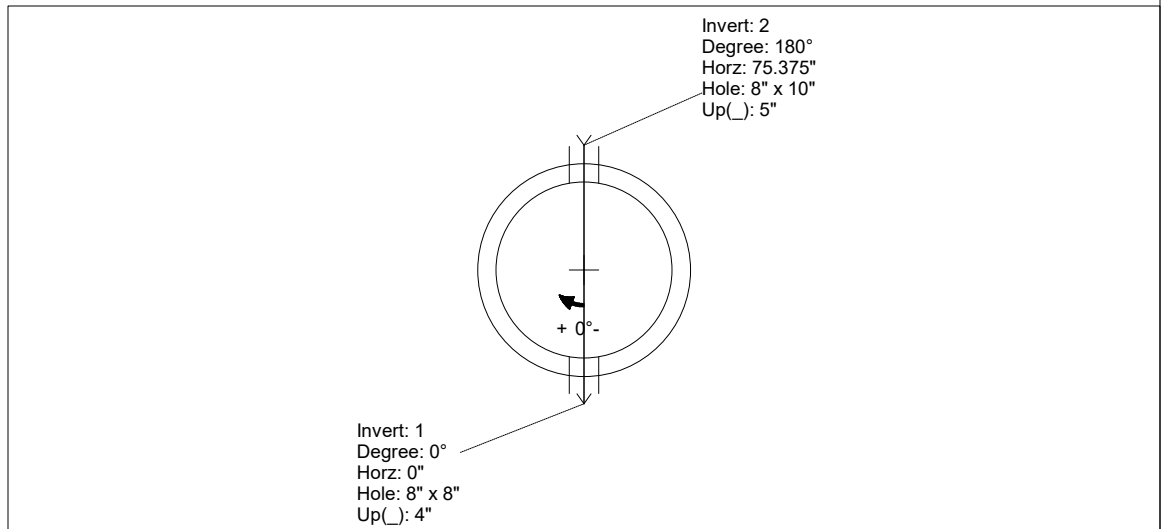
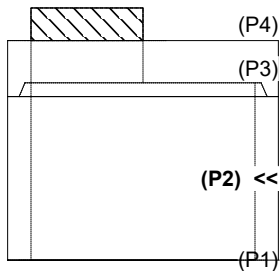
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO STEPS.
4. CASTING SUPPLIED BY OTHERS.

REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB = H2O LOADING.  
 - RISER/WALLS (As .12)

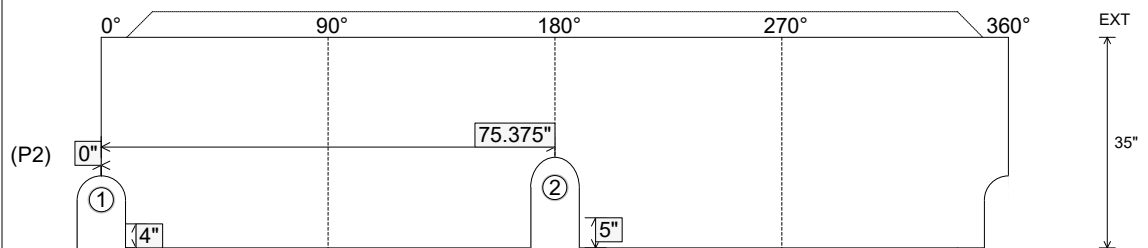
Rim: 537.34' Rim to Invert: 4.08' Slack: 0.96" Sump: 6" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	533.26'	0°	0"	4" PVC SDR21	4.375"	DOGHOUSE 8"x8"	8" x 8"	8.038"	4"	0"
Invert 2	533.43'	180°	91.125"	4" PVC SDR21	4.375"	DOGHOUSE 8"x10"	8" x 10"	8.038"	5"	0"
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: Flat

Wall Thickness: 5"  
 Floor Height: 0"

Height (Int): 35"  
 Height (Ext): 35"

Weight (Net): 2360 lb  
 Volume (Net): 0.6cu.yd

Job Name: 25-4279 - KYTC Christian Co (251031)  
 Job Location: Hopkinsville, KY  
 Contractor: CITCO Water

Plant: 100

5/8/2026 11:23:29 AM

Tech: Jared- F

PC: C. Goff



**Structure ID: 114+45 ARV**

**P2 MH048DHVF**

**MH DH RISER Custom Ht T/F**

- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P2) 48" - MH DH RISER Custom Ht T/F - 37"
- P1) 48" - P.I.P. BY OTHERS - BTM SLAB F/n - 0"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) DOGHOUSE - 8"x8"

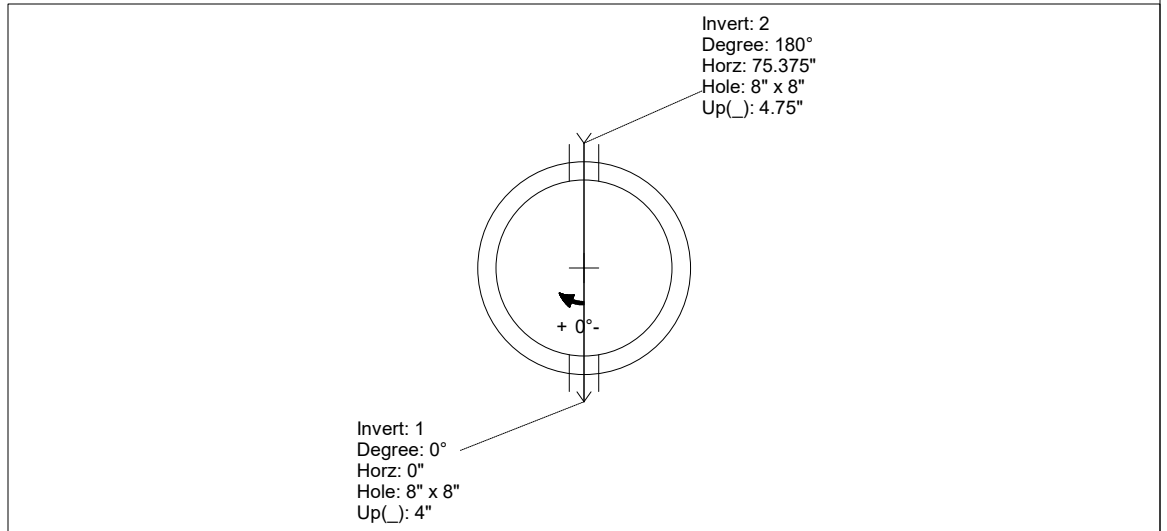
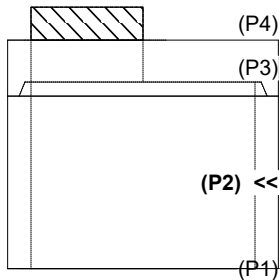
0 lb  
 1561 lb  
 2507 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 Structure Total: 4068 lb

Structure Notes:  
 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO STEPS.  
 4. CASTING SUPPLIED BY OTHERS.  
 REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB = H2O LOADING.  
 - RISER/WALLS (As .12)

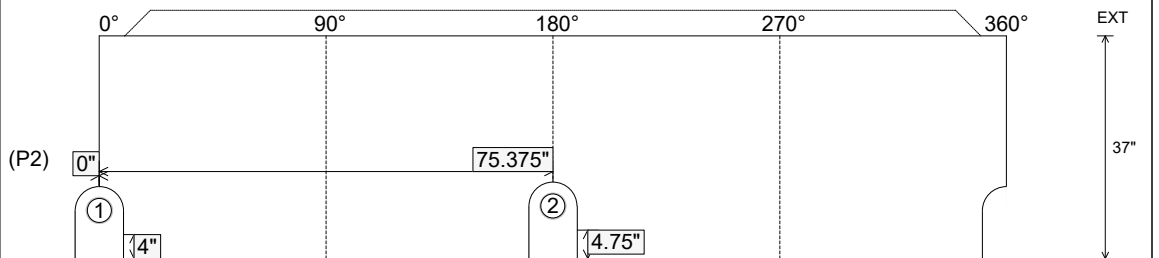
Rim: 561.08' Rim to Invert: 4.19' Slack: 0.28' Sump: 6" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	556.89'	0°	0"	4" PVC SDR21	4.375"	DOGHOUSE 8"x8"	8" x 8"	8.038"	4"	0"
Invert 2	556.95'	180°	91.125"	4" PVC SDR21	4.375"	DOGHOUSE 8"x8"	8" x 8"	8.038"	4.75"	0"
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: Flat

Wall Thickness: 5"  
 Floor Height: 0"

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

Weight (Net): 2507 lb  
 Volume (Net): 0.64cu.yd

Job Name: 25-4279 - KYTC Christian Co (251031)  
 Job Location: Hopkinsville, KY  
 Contractor: CITCO Water

Plant: 100  
 5/8/2026 11:23:29 AM

Tech: Jared- F  
 PC: C. Goff



**Structure ID: 105+86 ARV**

**P2 MH048DHVF**

**MH DH RISER Custom Ht T/F**

- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P2) 48" - MH DH RISER Custom Ht T/F - 37"
- P1) 48" - P.I.P. BY OTHERS - BTM SLAB F/n - 0"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) DOGHOUSE - 8"x8"

0 lb  
 1561 lb  
 2506 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb

Structure Total: 4067 lb

Structure Notes:

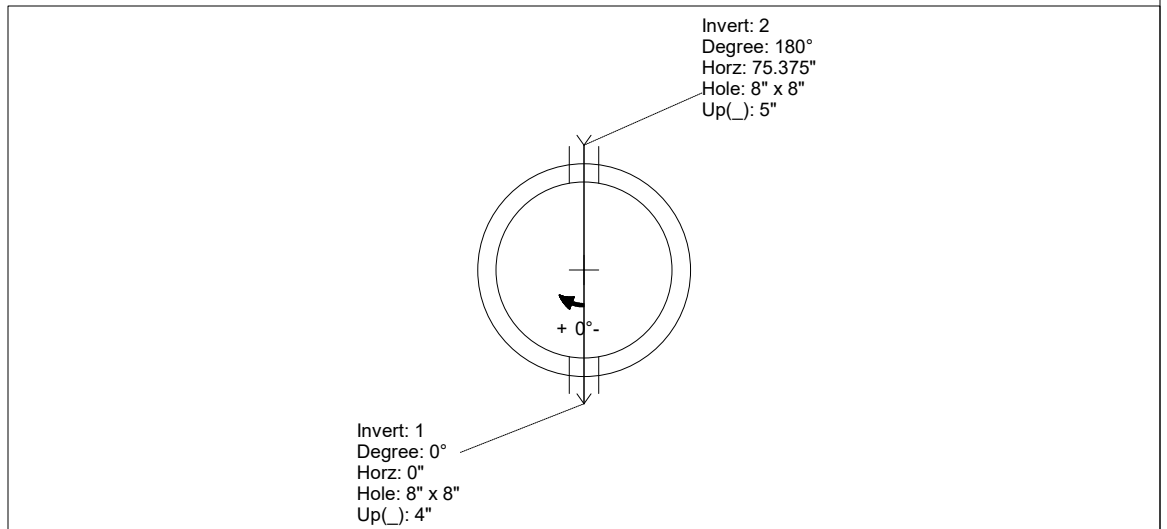
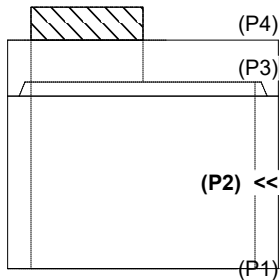
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO STEPS.
4. CASTING SUPPLIED BY OTHERS.

REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB = H2O LOADING.  
 - RISER/WALLS (As .12)

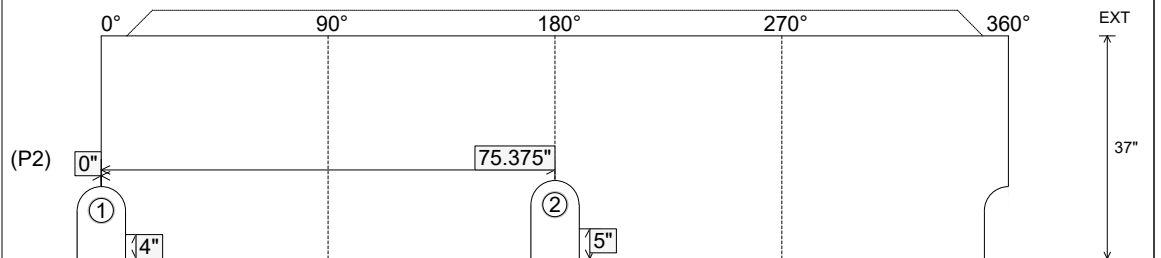
Rim: 555.75' Rim to Invert: 4.17' Slack: 0.04" Sump: 6" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	551.58'	0°	0"	4" PVC SDR21	4.375"	DOGHOUSE 8"x8"	8" x 8"	8.038"	4"	0"
Invert 2	551.66'	180°	91.125"	4" PVC SDR21	4.375"	DOGHOUSE 8"x8"	8" x 8"	8.038"	5"	0"
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: Flat

Wall Thickness: 5"  
 Floor Height: 0"

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

Weight (Net): 2506 lb  
 Volume (Net): 0.64cu.yd

Job Name: 26-1219 - 1662 Pinkerton Road  
 Job Location: Brentwood, TN  
 Contractor: Hayes Pipe Supply

Plant: 100  
 5/11/2026 5:32:36 PM

Tech: Jared - F  
 PC: T. Ryan



**Structure ID: 3-7 SS-MH**

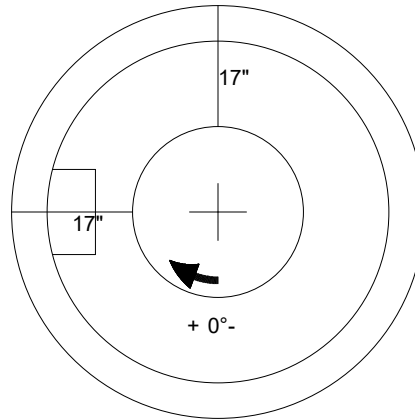
**P3 MH048CCN36CDARED**

**CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G**

P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 36"	2251 lb
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"	4192 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 36"	3749 lb
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT	1440 lb
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 12-08 NYLO	16 lb
11) MH Step ML-10-TDS-NCR - 10"	0 lb
<b>Structure Total:</b>	<b>11648 lb</b>

Structure Notes:  
 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. ADMIXTURE = CONBLOCK CDA RED.  
 4. CASTING SUPPLIED BY OTHERS.

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" - CON 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: 25-3452 - Churchill Downs Skye Terrace Improvements  
 Job Location: Louisville, KY 40208  
 Contractor: Louisville Paving and Construction

Plant: 100  
 4/30/2026 1:21:52 PM

Tech: Jared - F  
 PC: J. Jarvis



**Structure ID: S212**

**P1 MH048BAVF**

**MH BASE Custom Ht T/n**

- P3) 32" x 32" - CASTING HEIGHT - 3"
- P2) 48" - MH FLAT TOP w/32"x32" Hole F/G - 12"
- P1) 48" - MH BASE Custom Ht T/n - 21"
- 1) CASTING - HOE 595 F/G
- 1) 48" - Conseal CS-102 1.00"
- 1) 32" x 32" - Conseal CS-102 1.00"
- 1) Hole - 16

0 lb  
 1629 lb  
 2712 lb  
 376 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 4717 lb

**Structure Notes:**  
 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO STEPS AND NO INVERT CHANNEL.  
 4. CASTING BY ICAST (HOE 595 F/G)

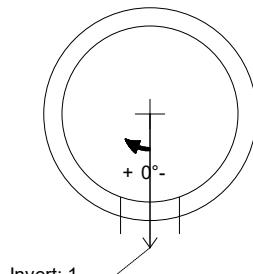
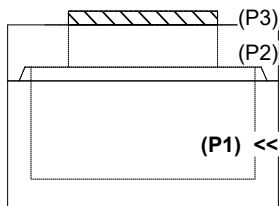
REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 453.5' Rim to Invert: 3' Slack: 0" Sump: 0" Step Position:

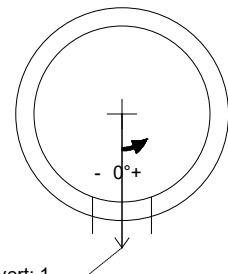
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (⊥)	Offset
Invert 1	450.5'	0°	0"	12" HDPE	14.5"	Hole 16	16"	16.312"	-1.25"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

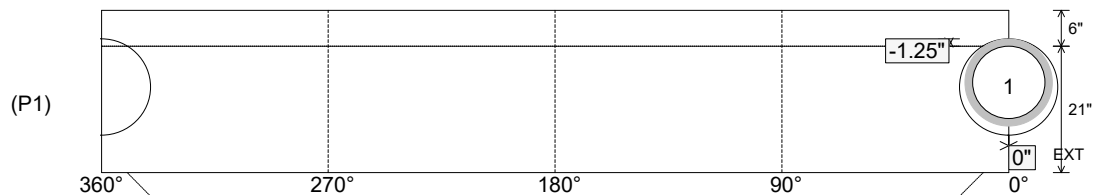


Invert: 1  
 Degree: 0°  
 Horz: 0"  
 Hole: 16"  
 Up(⊥): -1.25"



Invert: 1  
 Degree: 0°  
 Horz: 0"  
 Hole: 16"  
 Up(⊥): -1.25"

INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

Height (Int): 21"  
 Height (Ext): 27"

Weight (Net): 2712 lb  
 Volume (Net): 0.69cu.yd

Job Name: 25-1431 - Georgetown Commons  
 Job Location: Georgetown, KY  
 Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

4/28/2026 8:56:36 AM

Tech: J. Coppage

PC: A. Chambers



**Structure ID: SSMH-285**

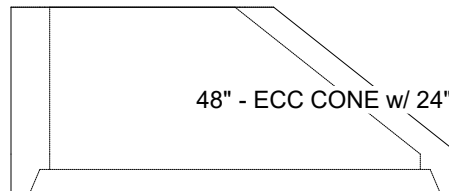
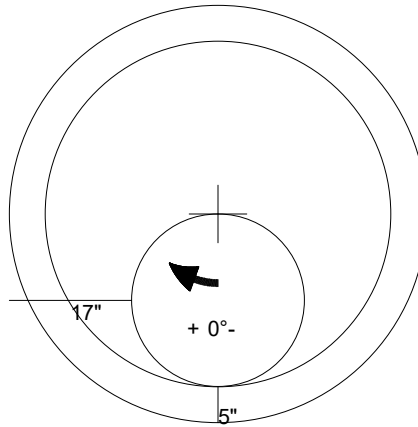
**P4 MH048CN24-S**

**ECC CONE w/ 24" HOLE NO STEP**

- P5) 24" - CASTING HEIGHT - 7"
- P4) 48" - ECC CONE w/ 24" HOLE NO STEP - 24"
- P3) 48" - MH RISER NO STEPS - 60"
- P2) 48" - MH RISER NO STEPS - 60"
- P1) 48" - MH BASE w/FLANGE (08F/08EF) - 28"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 3) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 0285

- Structure Notes:**
1. JR HOE MC-375 SELF SEALING SAN BY ICAST
  2. PER ASTM C478 SPECIFICATIONS.
  3. CONCRETE = 4,000 PSI AT 28 DAYS.
  4. REINFORCING PER ASTM A615 (GRADE 60).  
 - CONE (As .12)
  - RISER/WALLS (As .12)
  - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.
  5. \*\*NO STEPS\*\*

Structure Total: 16155 lb



48" - ECC CONE w/ 24" HOLE NO STEP - 24" - (P4)

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 24"

Weight (Net): 1550 lb  
 Volume (Net): 0.33cu.yd

Job Name: 25-1431 - Georgetown Commons  
 Job Location: Georgetown, KY  
 Contractor: Winwater Hartford KY Co.

Plant: Beaver Dam

4/28/2026 8:57:09 AM

Tech: J. Copping

PC: A. Chambers



**Structure ID: SSMH-285**

**P3 MH048RS60S**

**MH RISER NO STEPS**

- P5) 24" - CASTING HEIGHT - 7"
- P4) 48" - ECC CONE w/ 24" HOLE NO STEP - 24"
- P3) 48" - MH RISER NO STEPS - 60"
- P2) 48" - MH RISER NO STEPS - 60"
- P1) 48" - MH BASE w/FLANGE (08F/08EF) - 28"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 3) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 0285

- Structure Notes:**
1. JR HOE MC-375 SELF SEALING SAN BY ICAST
  2. PER ASTM C478 SPECIFICATIONS.
  3. CONCRETE = 4,000 PSI AT 28 DAYS.
  4. REINFORCING PER ASTM A615 (GRADE 60).
  - CONE (As .12)
  - RISER/WALLS (As .12)
  - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.
  5. \*\*NO STEPS\*\*

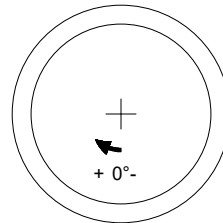
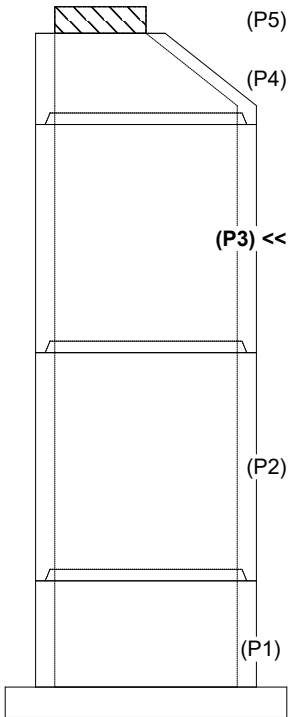
0 lb  
 1550 lb  
 4192 lb  
 4192 lb  
 4780 lb  
 0 lb  
 0 lb  
 1440 lb  
 0 lb  
 2 lb

Structure Total: 16155 lb

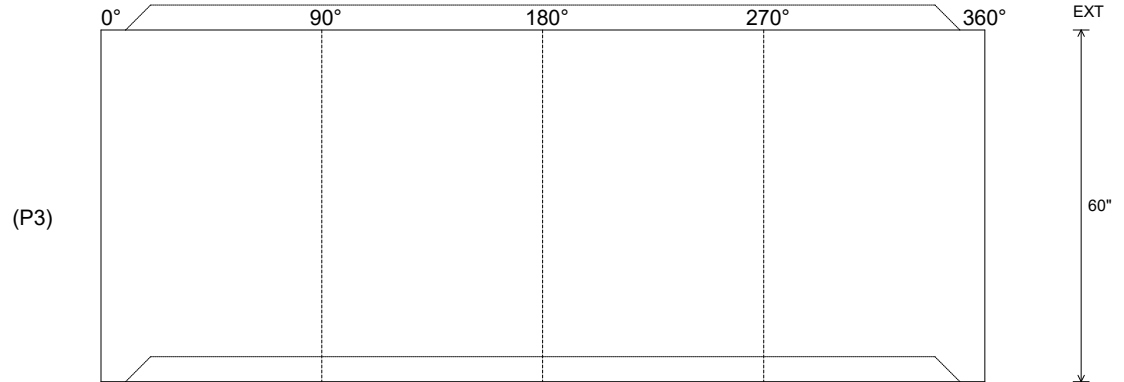
Rim: 892.6' Rim to Invert: 14.9' Slack: 1.8" Sump: 2" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	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: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:22:22 PM

PC: Celina Goff



**Structure ID: 2301580**

**P1 MH048BAVF**

**MH BASE (08"F) T/n**

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - CON CONE w/24" HOLE F/G - 24"
- P1) 48" - MH BASE (08"F) T/n - 34"
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 1) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 4) MH Step ML-10-TDS-NCR - 10"

0 lb  
 2252 lb  
 4053 lb  
 1440 lb  
 0 lb  
 16 lb  
 0 lb  
 -----  
 Structure Total: 7761 lb

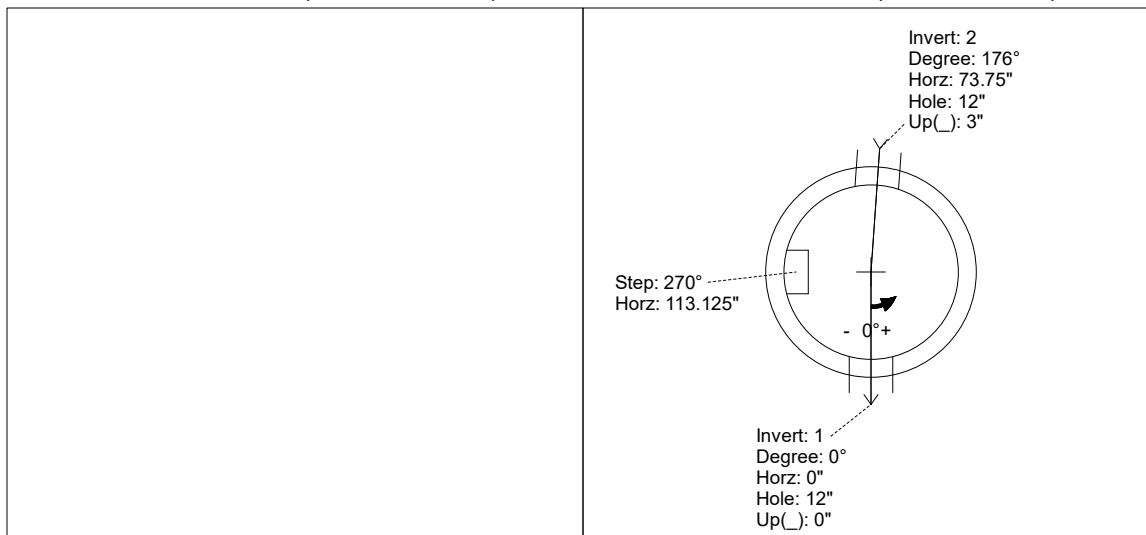
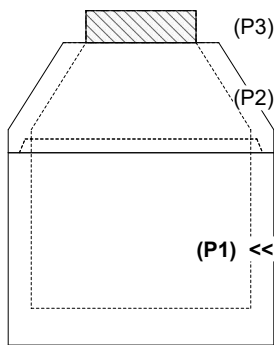
- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT:
    - WALLS: PER ASTM A615 - DOUBLE MAT
    - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  4. INVERT CHANNEL REQUIRED
  5. STEPS AT 270 DEGREES
  6. 7" CASTING SUPPLIED BY OTHERS

Rim: 783.74' Rim to Invert: 5.36' Slack: 1.32" Sump: 2" Step Position: 270°

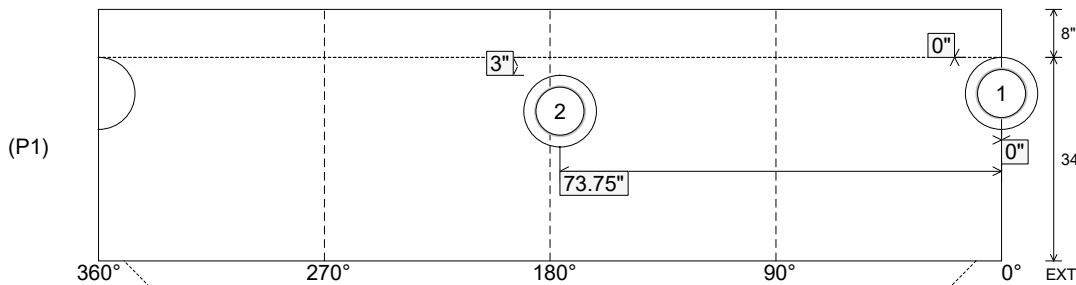
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	778.38'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	778.63'	176°	89.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	3"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 8"

Height (Int): 34"  
 Height (Ext): 42"

Weight (Net): 4053 lb  
 Volume (Net): 1.03cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:22:22 PM

PC: Celina Goff



**Structure ID: 2301580**

**P1 MH048BAVF**

**MH BASE (08"F) T/n**

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - CON CONE w/24" HOLE F/G - 24"
- P1) 48" - MH BASE (08"F) T/n - 34"
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 1) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 4) MH Step ML-10-TDS-NCR - 10"

0 lb  
 2252 lb  
 4053 lb  
 1440 lb  
 0 lb  
 16 lb  
 0 lb  
 -----  
 Structure Total: 7761 lb

Structure Notes:

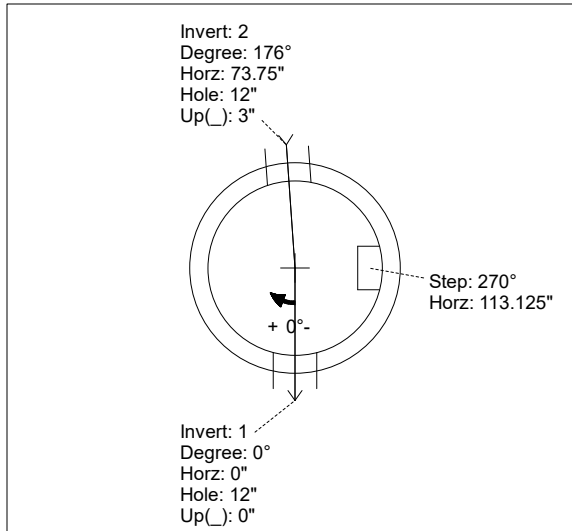
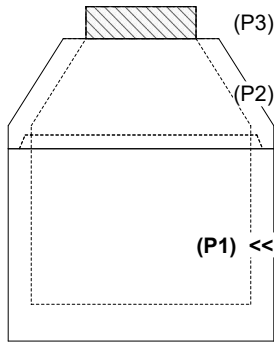
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT:
  - WALLS: PER ASTM A615 - DOUBLE MAT
  - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. INVERT CHANNEL REQUIRED
5. STEPS AT 270 DEGREES
6. 7" CASTING SUPPLIED BY OTHERS

Rim: 783.74' Rim to Invert: 5.36' Slack: 1.32' Sump: 2' Step Position: 270°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	778.38'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	778.63'	176°	89.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	3"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

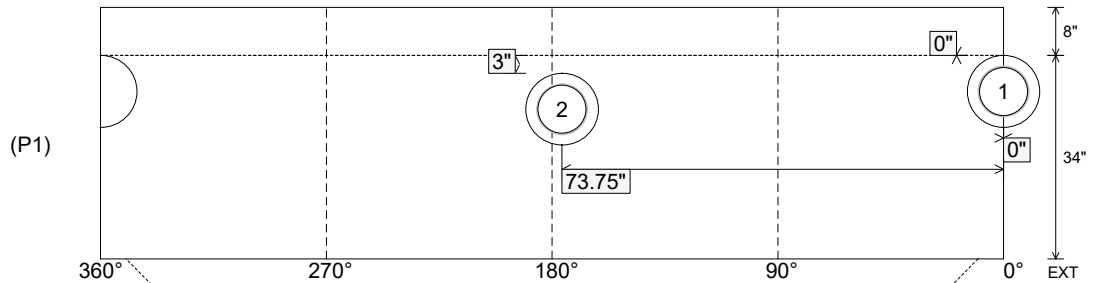
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



**INVERT CHANNEL DRAWING**

INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 8"

Height (Int): 34"  
 Height (Ext): 42"

Weight (Net): 4053 lb  
 Volume (Net): 1.03cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:22:21 PM

PC: Celina Goff



**Structure ID: 2301578**

**P1 MH048BAVF**

**MH BASE (08"F) T/n**

- P5) 24" - CASTING HEIGHT - 7"
- P4) 48" - CON CONE w/24" HOLE F/G - 36"
- P3) 48" - MH RISER T/G - 60"
- P2) 48" - MH RISER T/G - 60"
- P1) 48" - MH BASE (08"F) T/n - 40"
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 3) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 16) MH Step ML-10-TDS-NCR - 10"

	0 lb
	2252 lb
	4192 lb
	4192 lb
	4472 lb
	1440 lb
	0 lb
	16 lb
	0 lb
Structure Total:	16564 lb

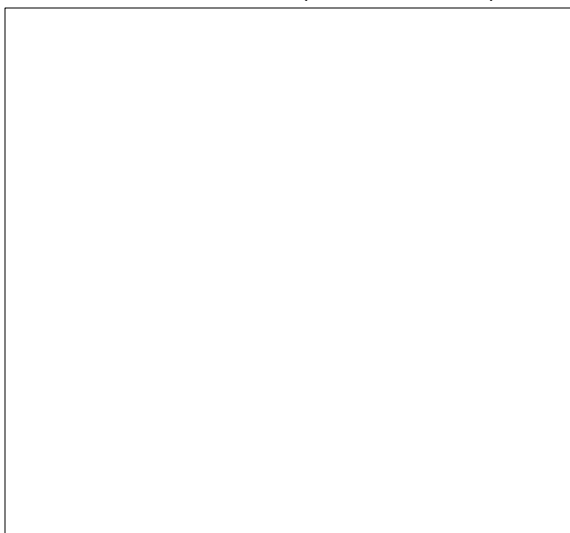
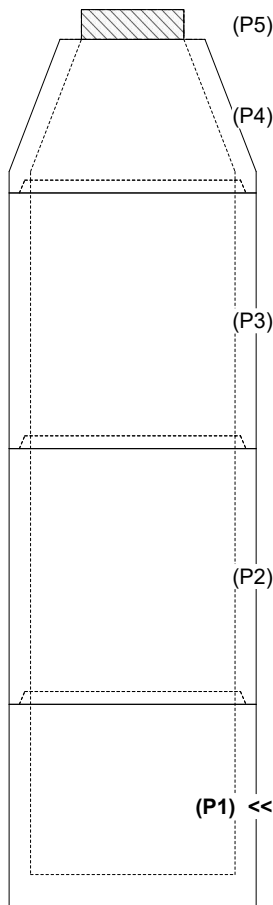
- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT:
    - WALLS: PER ASTM A615 - DOUBLE MAT
    - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  4. INVERT CHANNEL REQUIRED
  5. STEPS AT 270 DEGREES
  6. 7" CASTING SUPPLIED BY OTHERS

Rim: 790.34' Rim to Invert: 16.99' Slack: 2.88" Sump: 2" Step Position: 270°

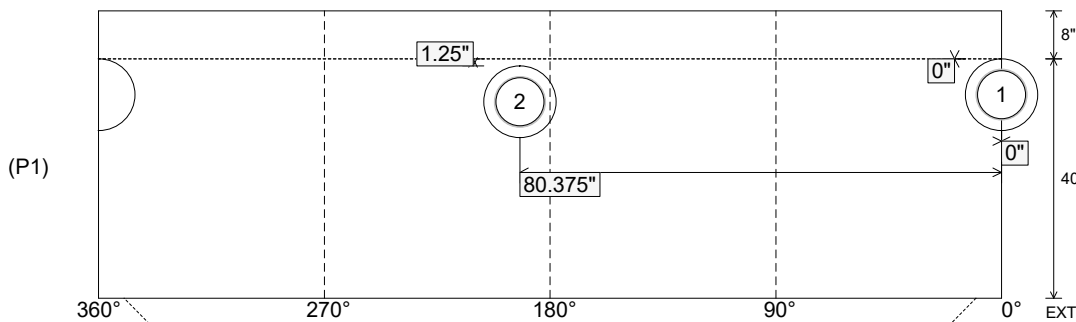
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	773.35'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	773.45'	192°	97.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
Coating (Ext):

Seam Up: Tongue  
Seam Dn: n/a

Wall Thickness: 5"  
Floor Height: 8"

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

Weight (Net): 4472 lb  
Volume (Net): 1.14cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:22:21 PM

PC: Celina Goff



**Structure ID: 2301578**

**P1 MH048BAVF**

**MH BASE (08"F) T/n**

- P5) 24" - CASTING HEIGHT - 7"
- P4) 48" - CON CONE w/24" HOLE F/G - 36"
- P3) 48" - MH RISER T/G - 60"
- P2) 48" - MH RISER T/G - 60"
- P1) 48" - MH BASE (08"F) T/n - 40"
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 3) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 16) MH Step ML-10-TDS-NCR - 10"

0 lb  
 2252 lb  
 4192 lb  
 4192 lb  
 4472 lb  
 1440 lb  
 0 lb  
 16 lb  
 0 lb  
 -----  
 Structure Total: 16564 lb

Structure Notes:

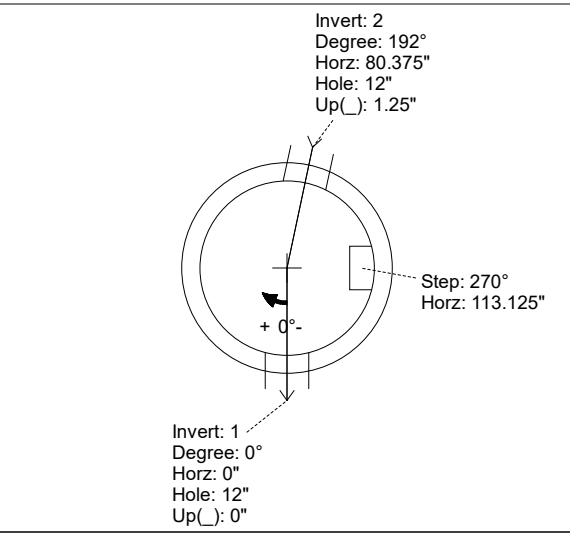
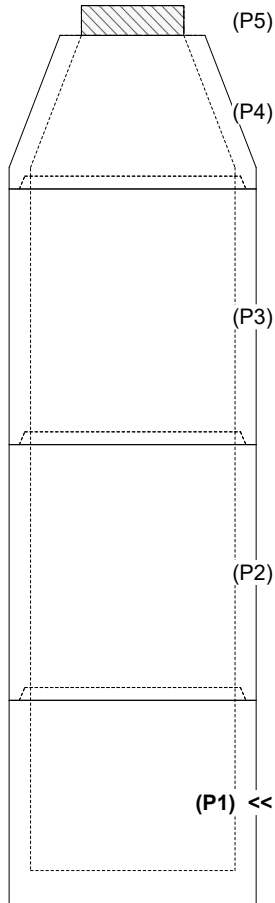
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT:
  - WALLS: PER ASTM A615 - DOUBLE MAT
  - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. INVERT CHANNEL REQUIRED
5. STEPS AT 270 DEGREES
6. 7" CASTING SUPPLIED BY OTHERS

Rim: 790.34' Rim to Invert: 16.99' Slack: 2.88" Sump: 2" Step Position: 270°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	773.35'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	773.45'	192°	97.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

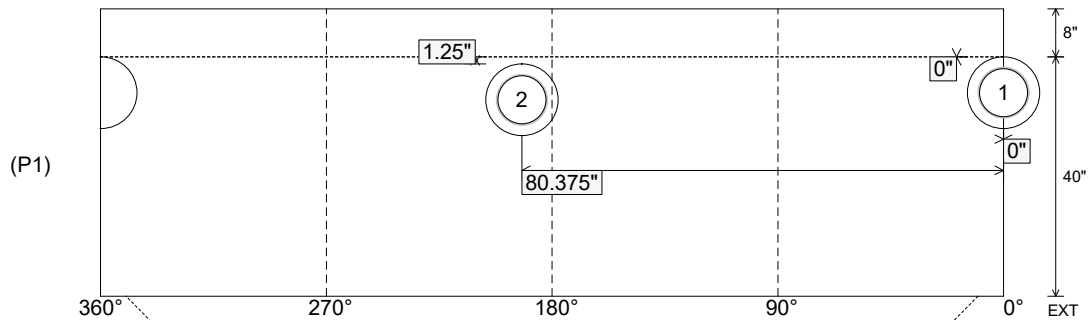
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



**INVERT CHANNEL DRAWING**

INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 8"

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

Weight (Net): 4472 lb  
 Volume (Net): 1.14cu.yd

Job Name: 25-4590 Uhlhorn Sewer Repairs  
 Job Location: Evansville, IN  
 Contractor: Bowen Engineering Corporation

Plant: Beaver Dam

Tech: S. Felletter

5/11/2026 10:20:35 AM

PC: A. Chambers



**Structure ID: 101 (7)**

**P2 MH060TS15-48ECC-CDARED**

**MH TRANS. SLAB ECC w/ConBlock-CDA Red T/G**

- P6) 24" - CASTING HEIGHT - 7"
- P5) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"
- P4) 48" - MH RISER w/ConBlock-CDA Red T/G - 72"
- P3) 48" - MH RISER w/ConBlock-CDA Red T/G - 72"
- P2) 60" - MH TRANS. SLAB ECC w/ConBlock-CDA Red T/G - 15"
- P1) 60" - MH BASE Custom Ht, w/ConBlock-CDA Red T/n - 68"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 60" - MH INVERT CHANNEL EWSU w/ConBlock-CDA Red - FULL HEIGHT
- 1) CASTING - HOE MC-315 F/C Sanitary
- 1) 60" - Conseal CS-102 1.00" (Double)
- 3) 48" - Conseal CS-102 1.00" (Double)
- 2) Kor-N-Seal2 - S206-30

0 lb  
 1961 lb  
 5030 lb  
 5030 lb  
 2204 lb  
 9092 lb  
 0 lb  
 0 lb  
 2962 lb  
 258 lb  
 0 lb  
 0 lb  
 13 lb  
 -----  
 Structure Total: 26550 lb

Structure Notes:

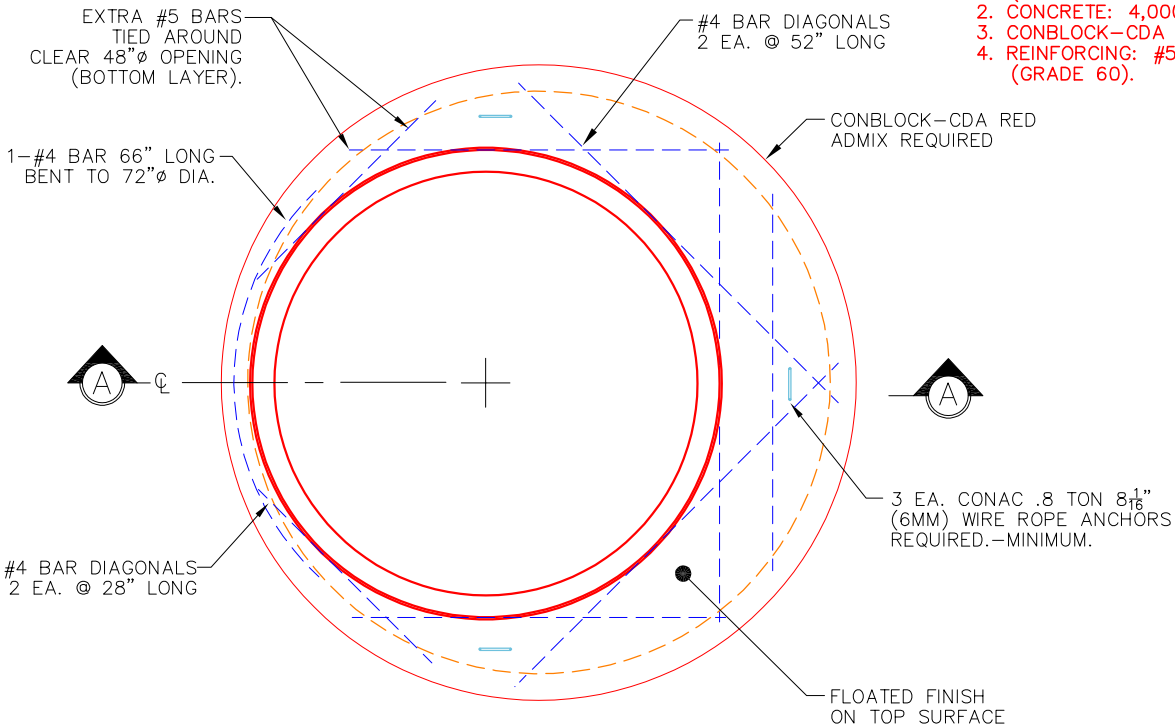
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (HOE MC-315 F/C "SANITARY").
4. NO STEPS.

REINFORCING PER ASTM A615 (GRADE 60).

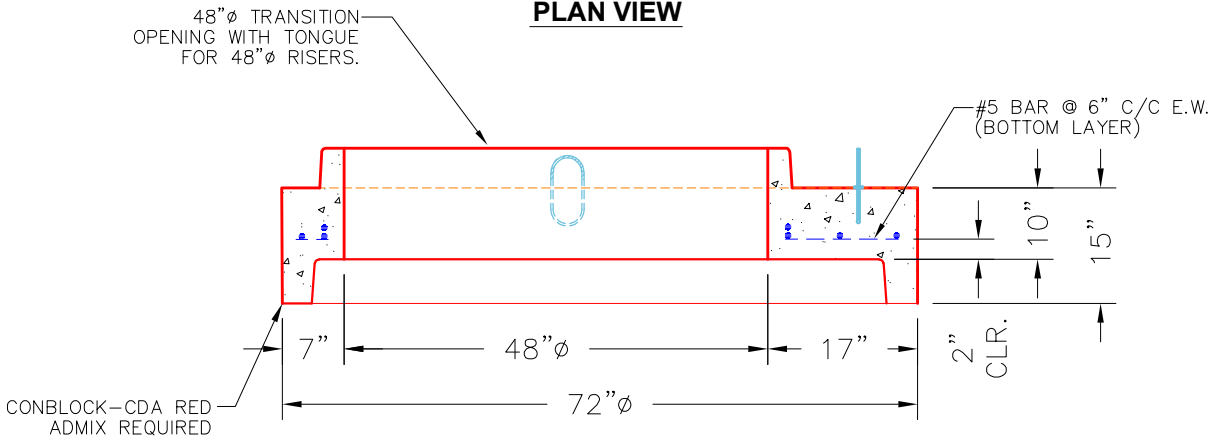
- TOP SLAB (As .31) #5 BARS AT 6" C.C.E.W.
- RISER/WALLS (As .18)
- FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

**NOTES:**

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



**PLAN VIEW**



**SECTION A-A**

Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 15"

Weight (Net): 2204 lb  
 Volume (Net): 0.56cu.yd

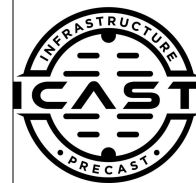
Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:21:17 PM

PC: Celina Goff



**Structure ID: 2301538**

**P1 MH060DPVF**

**MH BASE (14"F) w/DROP Custom Ht T/n**

- P8) 24" - CASTING HEIGHT - 7"
- P7) 48" - CON CONE w/24" HOLE F/G - 24"
- P6) 48" - MH RISER T/G - 72"
- P5) 48" - MH RISER T/G - 72"
- P4) 60" - MH Transition Slab 48" Hole T/G - 15"
- P3) 60" - MH RISER w/DROP T/G - 60"
- P2) 60" - MH RISER w/DROP Custom Ht T/G - 38"
- P1) 60" - MH BASE (14"F) w/DROP Custom Ht T/n - 72"
- 1) 60" - MH INVERT CHANNEL - FULL HEIGHT
- 1) SECONDARY POUR - Add Exterior Drop to Base (P1)
- 1) SECONDARY POUR - Add Exterior Drop to Riser (P2)
- 1) SECONDARY POUR - Add Exterior Drop to Riser (P3)
- 3) 60" - Conseal CS-102 1.00" (Double)
- 3) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 1) Drop Tee - 8" PVC
- 1) Drop Elbow - 8" PVC
- 28) MH Step ML-10-TDS-NCR - 10"

- 0 lb
- 2252 lb
- 5030 lb
- 5030 lb
- 2204 lb
- 6235 lb
- 3967 lb
- 14615 lb
- 2692 lb
- 3698 lb
- 1634 lb
- 2580 lb
- 0 lb
- 0 lb
- 2 lb
- 0 lb
- 0 lb
- 0 lb
- 0 lb

- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT:
    - WALLS: PER ASTM A615 - DOUBLE MAT
    - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  4. INVERT CHANNEL REQUIRED
  5. STEPS AT 200 DEGREES
  6. 7" CASTING SUPPLIED BY OTHERS
  7. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST

Structure Total: 49939 lb

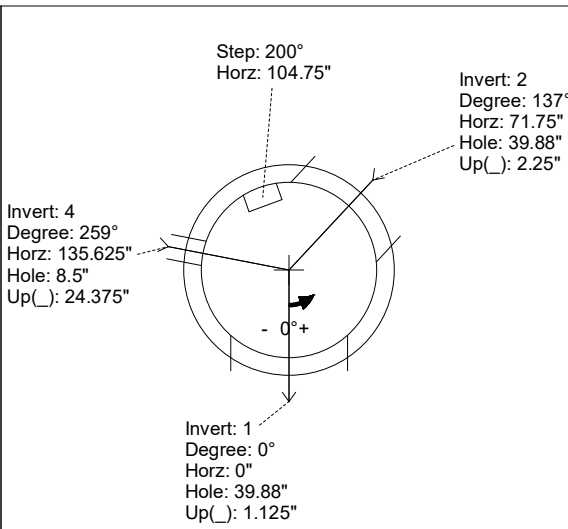
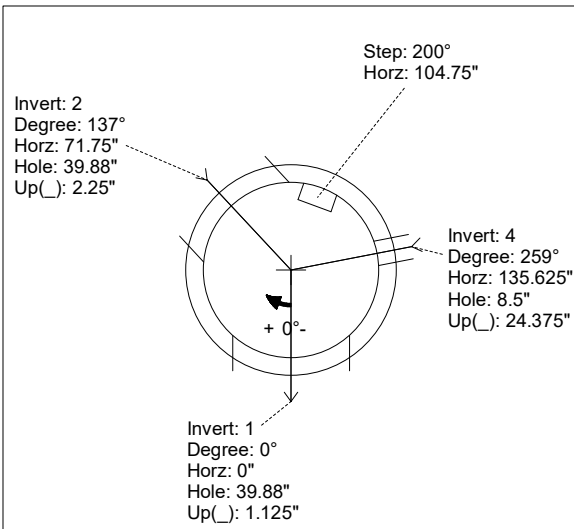
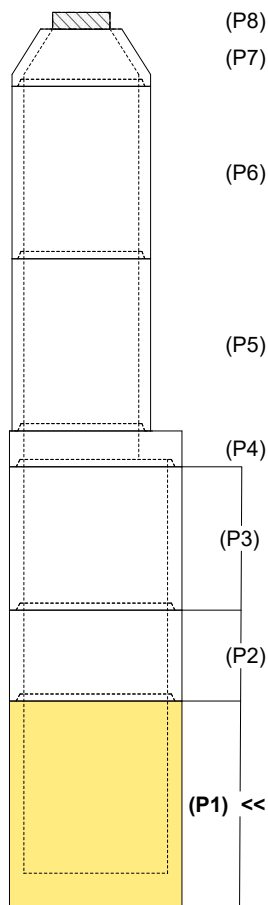
**FIRST POUR (BASE): 14,615 LBS**  
**SECOND POUR (DROP): 3,698 LBS**

Rim: 762.81' Rim to Invert: 29.97' Slack: 2.64" Sump: 3" Step Position: 200°

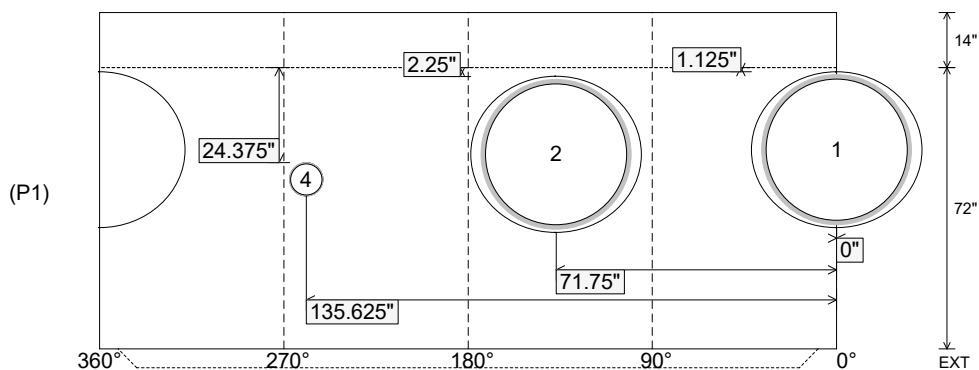
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	732.84'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	732.94'	137°	86.125"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"
Invert 3										
Invert 4	734.64'	259°	162.75"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.529"	24.375"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
Coating (Ext):

Seam Up: Tongue  
Seam Dn: n/a

Wall Thickness: 6"  
Floor Height: 14"

Height (Int): 72"  
Height (Ext): 86"

Weight (Net): 14615 lb  
Volume (Net): 3.73cu.yd

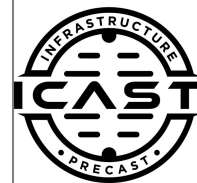
Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:21:17 PM

PC: Celina Goff



**Structure ID: 2301538**

**P1 MH060DPVF**

**MH BASE (14"F) w/DROP Custom Ht T/n**

- P8) 24" - CASTING HEIGHT - 7"
- P7) 48" - CON CONE w/24" HOLE F/G - 24"
- P6) 48" - MH RISER T/G - 72"
- P5) 48" - MH RISER T/G - 72"
- P4) 60" - MH Transition Slab 48" Hole T/G - 15"
- P3) 60" - MH RISER w/DROP T/G - 60"
- P2) 60" - MH RISER w/DROP Custom Ht T/G - 38"
- P1) 60" - MH BASE (14"F) w/DROP Custom Ht T/n - 72"
- 1) 60" - MH INVERT CHANNEL - FULL HEIGHT
- 1) SECONDARY POUR - Add Exterior Drop to Base (P1)
- 1) SECONDARY POUR - Add Exterior Drop to Riser (P2)
- 1) SECONDARY POUR - Add Exterior Drop to Riser (P3)
- 3) 60" - Conseal CS-102 1.00" (Double)
- 3) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 1) Drop Tee - 8" PVC
- 1) Drop Elbow - 8" PVC
- 28) MH Step ML-10-TDS-NCR - 10"

- 0 lb
- 2252 lb
- 5030 lb
- 5030 lb
- 2204 lb
- 6235 lb
- 3967 lb
- 14615 lb
- 2692 lb
- 3698 lb
- 1634 lb
- 2580 lb
- 0 lb
- 0 lb
- 2 lb
- 0 lb
- 0 lb
- 0 lb
- 0 lb

- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. EXTERIOR DROP REINFORCEMENT: DRILL & STUB #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  4. INVERT CHANNEL REQUIRED
  5. STEPS AT 200 DEGREES
  6. 7" CASTING SUPPLIED BY OTHERS
  7. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST
  8. ADD 8" SDR 35 DROP & ELBOW AT INVERT 4 (259°)

Structure Total: 49939 lb

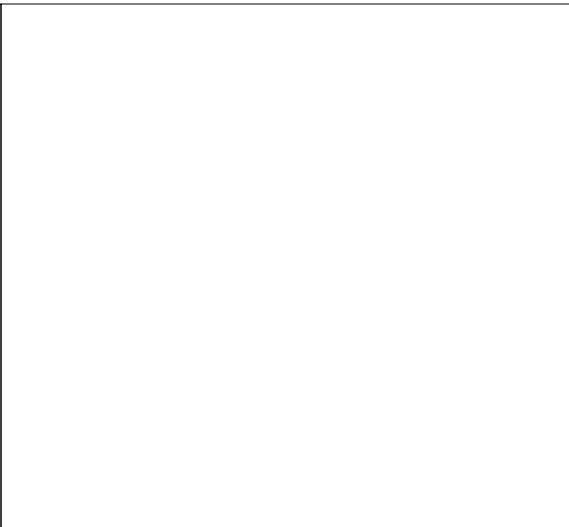
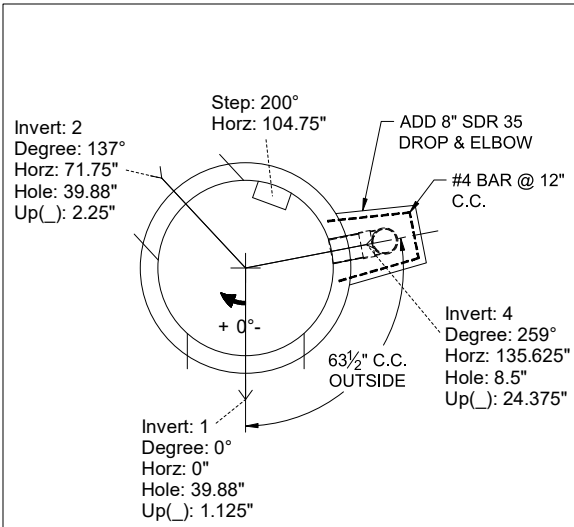
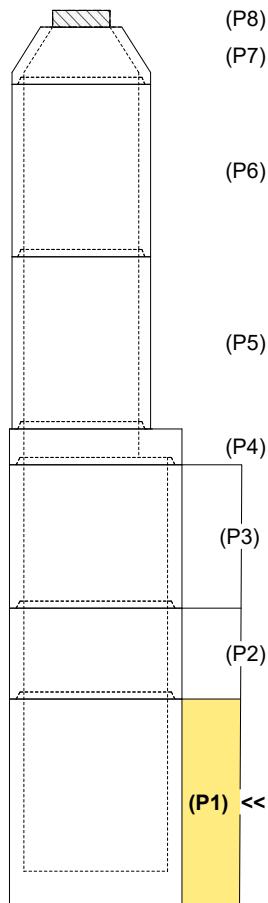
**FIRST POUR (BASE): 14,615 LBS**  
**SECOND POUR (DROP): 3,698 LBS**

Rim: 762.81' Rim to Invert: 29.97' Slack: 2.64" Sump: 3" Step Position: 200°

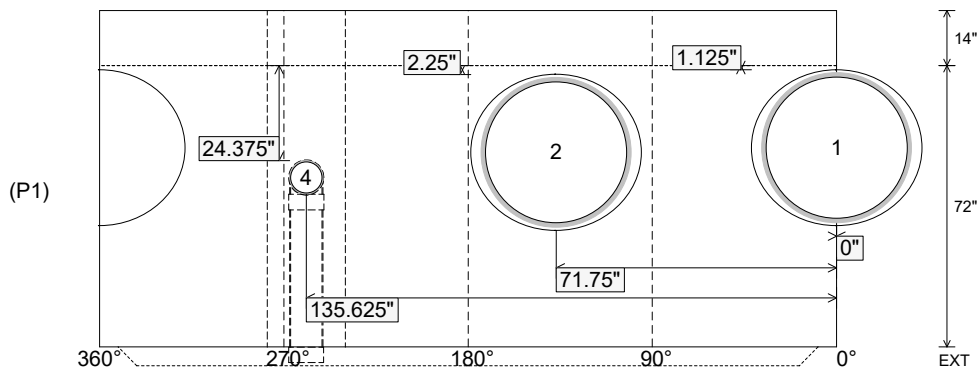
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	732.84'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	732.94'	137°	86.125"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"
Invert 3										
Invert 4	734.64'	259°	162.75"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.529"	24.375"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
Coating (Ext):

Seam Up: Tongue  
Seam Dn: n/a

Wall Thickness: 6"  
Floor Height: 14"

Height (Int): 72"  
Height (Ext): 86"

Weight (Net): 14615 lb  
Volume (Net): 3.73cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:21:17 PM

PC: Celina Goff



**Structure ID: 2301538**

**P1 MH060DPVF**

**MH BASE (14"F) w/DROP Custom Ht T/n**

- P8) 24" - CASTING HEIGHT - 7"
- P7) 48" - CON CONE w/24" HOLE F/G - 24"
- P6) 48" - MH RISER T/G - 72"
- P5) 48" - MH RISER T/G - 72"
- P4) 60" - MH Transition Slab 48" Hole T/G - 15"
- P3) 60" - MH RISER w/DROP T/G - 60"
- P2) 60" - MH RISER w/DROP Custom Ht T/G - 38"
- P1) 60" - MH BASE (14"F) w/DROP Custom Ht T/n - 72"
- 1) 60" - MH INVERT CHANNEL - FULL HEIGHT
- 1) SECONDARY POUR - Add Exterior Drop to Base (P1)
- 1) SECONDARY POUR - Add Exterior Drop to Riser (P2)
- 1) SECONDARY POUR - Add Exterior Drop to Riser (P3)
- 3) 60" - Conseal CS-102 1.00" (Double)
- 3) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 1) Drop Tee - 8" PVC
- 1) Drop Elbow - 8" PVC
- 28) MH Step ML-10-TDS-NCR - 10"

0 lb  
 2252 lb  
 5030 lb  
 5030 lb  
 2204 lb  
 6235 lb  
 3967 lb  
 14615 lb  
 2692 lb  
 3698 lb  
 1634 lb  
 2580 lb  
 0 lb  
 0 lb  
 2 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb

Structure Total: 49939 lb

Structure Notes:

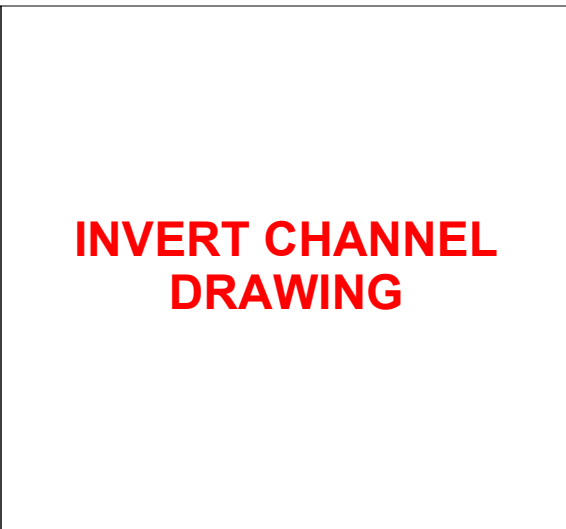
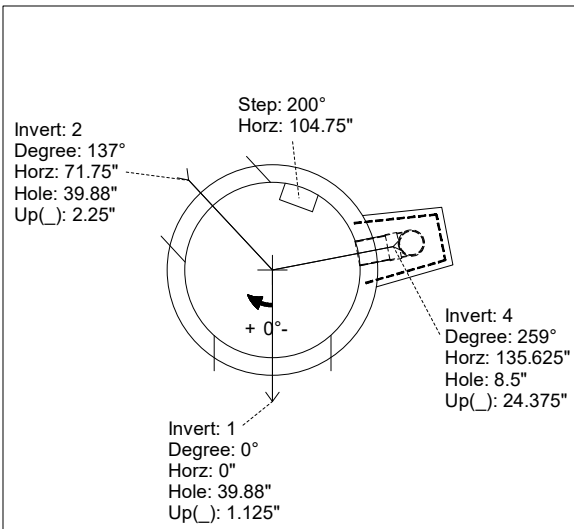
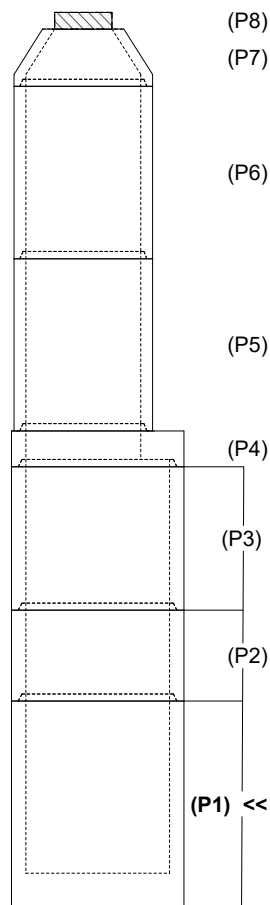
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT:
  - WALLS: PER ASTM A615 - DOUBLE MAT
  - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. INVERT CHANNEL REQUIRED
5. STEPS AT 200 DEGREES
6. 7" CASTING SUPPLIED BY OTHERS
7. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST

Rim: 762.81' Rim to Invert: 29.97' Slack: 2.64" Sump: 3" Step Position: 200°

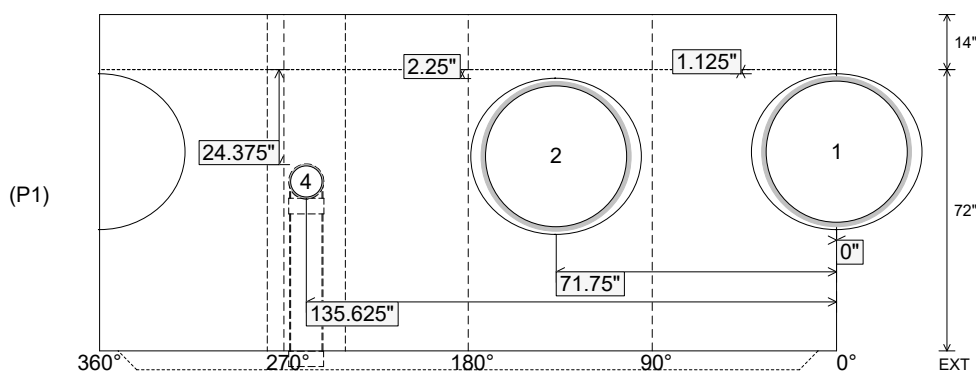
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	732.84'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	732.94'	137°	86.125"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"
Invert 3										
Invert 4	734.64'	259°	162.75"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.529"	24.375"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 6"  
 Floor Height: 14"

Height (Int): 72"  
 Height (Ext): 86"

Weight (Net): 14615 lb  
 Volume (Net): 3.73cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/26/2026 2:14:32 PM

PC: Celina Goff



**Structure ID: 2301540**

**P2 MH060R60**

**MH RISER w/DROP T/G**

- P7) 24" - CASTING HEIGHT - 7" 0 lb
- P6) 24" - GRADE RING F/F - 6" 405 lb
- P5) 48" - CON CONE w/24" HOLE F/G - 24" 2252 lb
- P4) 48" - MH RISER T/G - 48" 3353 lb
- P3) 60" - MH Transition Slab 48" Hole T/G - 15" 2204 lb
- P2) 60" - MH RISER w/DROP T/G - 60" 6235 lb
- P1) 60" - MH BASE (10"F) w/DROP Custom Ht T/n - 60" 11306 lb
- 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 2692 lb
- 1) SECONDARY POUR - Add Exterior Drop to Base (P1) 3010 lb
- 1) SECONDARY POUR - Add Exterior Drop to Riser (P2) 2580 lb
- 2) 60" - Conseal CS-102 1.00" (Double) 0 lb
- 2) 48" - Conseal CS-102 1.00" (Double) 0 lb
- 2) A-Lok - 1235 2 lb
- 1) Drop Tee - 8" PVC 0 lb
- 1) Drop Elbow - 8" PVC 0 lb
- 16) MH Step ML-10-TDS-NCR - 10" 0 lb

- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT: PER ASTM A615
  4. STEPS AT 90 DEGREES
  5. 7" CASTING SUPPLIED BY OTHERS
  6. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST

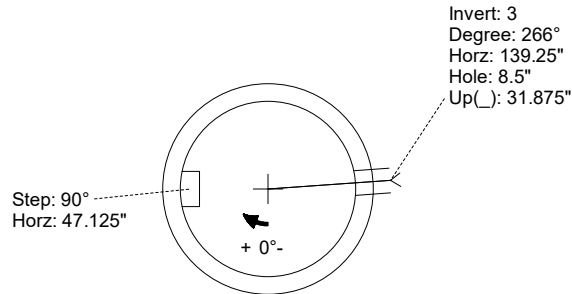
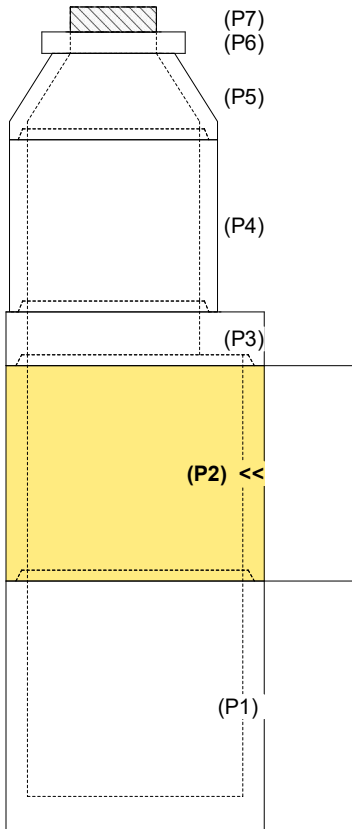
Structure Total: 34039 lb

**FIRST POUR (RISER): 6,235 LBS**  
**SECOND POUR (DROP): 2,580 LBS**

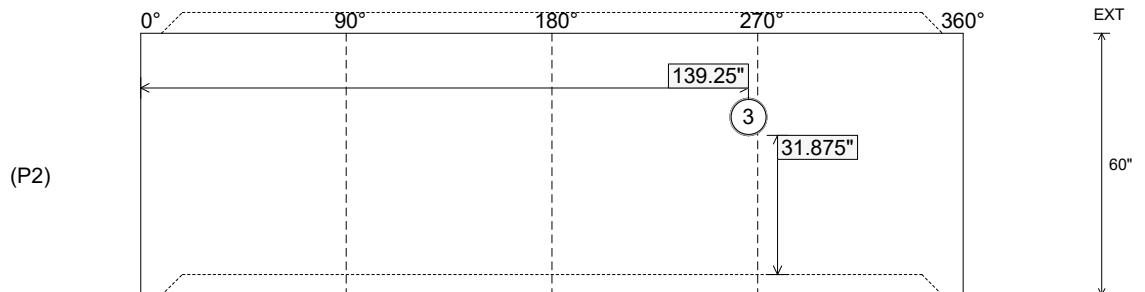
Rim: 751.8' Rim to Invert: 18.21' Slack: 1.52" Sump: 3" Step Position: 90°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1										
Invert 2										
Invert 3	741.41'	266°	167.125"	8" PVC SDR35	8.5"	Drop Tee 8" PVC	8.5"	8.529"	31.875"	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: 6"  
Floor Height: 0"

Height (Int): 60"  
Height (Ext): 60"

Weight (Net): 6235 lb  
Volume (Net): 1.59cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/26/2026 2:14:32 PM

PC: Celina Goff



**Structure ID: 2301540**

**P2 MH060R60**

**MH RISER w/DROP T/G**

- P7) 24" - CASTING HEIGHT - 7"
- P6) 24" - GRADE RING F/F - 6"
- P5) 48" - CON CONE w/24" HOLE F/G - 24"
- P4) 48" - MH RISER T/G - 48"
- P3) 60" - MH Transition Slab 48" Hole T/G - 15"
- P2) 60" - MH RISER w/DROP T/G - 60"
- P1) 60" - MH BASE (10" F) w/DROP Custom Ht T/n - 60"
- 1) 60" - MH INVERT CHANNEL - FULL HEIGHT
- 1) SECONDARY POUR - Add Exterior Drop to Base (P1)
- 1) SECONDARY POUR - Add Exterior Drop to Riser (P2)
- 2) 60" - Conseal CS-102 1.00" (Double)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 1) Drop Tee - 8" PVC
- 1) Drop Elbow - 8" PVC
- 16) MH Step ML-10-TDS-NCR - 10"

- 0 lb
- 405 lb
- 2252 lb
- 3353 lb
- 2204 lb
- 6235 lb
- 11306 lb
- 2692 lb
- 3010 lb
- 2580 lb
- 0 lb
- 0 lb
- 2 lb
- 0 lb
- 0 lb
- 0 lb
- 0 lb
- Structure Total: 34039 lb

Structure Notes:

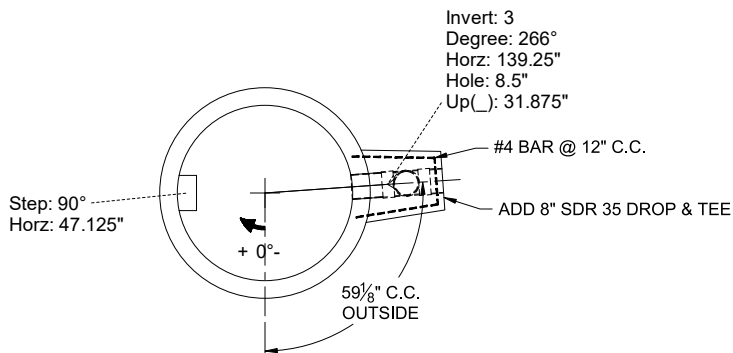
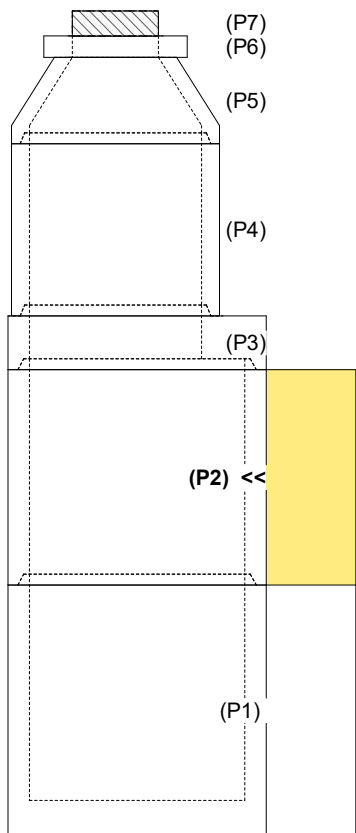
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. EXTERIOR DROP REINFORCEMENT: DRILL & STUB #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. STEPS AT 90 DEGREES
5. 7" CASTING SUPPLIED BY OTHERS
6. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST
7. ADD 8" SDR 35 DROP & TEE AT INVERT 3 (266°)

**FIRST POUR (RISER): 6,235 LBS**  
**SECOND POUR (DROP): 2,580 LBS**

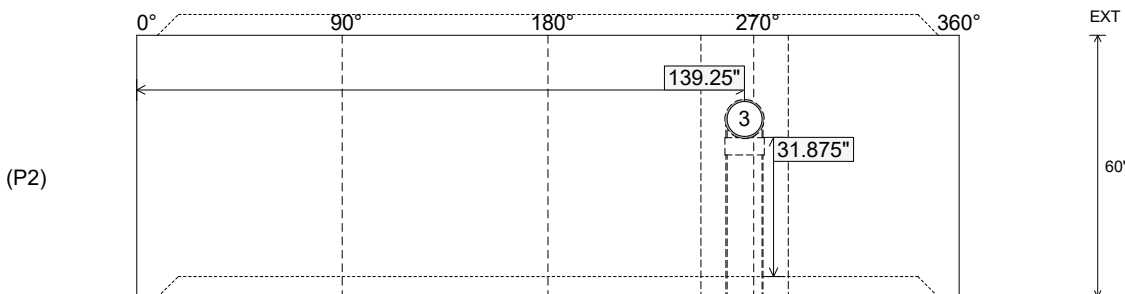
Rim: 751.8' Rim to Invert: 18.21' Slack: 1.52" Sump: 3" Step Position: 90°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1										
Invert 2										
Invert 3	741.41'	266°	167.125"	8" PVC SDR35	8.5"	Drop Tee 8" PVC	8.5"	8.529"	31.875"	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: 6"  
Floor Height: 0"

Height (Int): 60"  
Height (Ext): 60"

Weight (Net): 6235 lb  
Volume (Net): 1.59cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

3/27/2026 11:39:31 AM

Tech: J. Horsley - A

PC: Celina Goff



**Structure ID: 2301536**

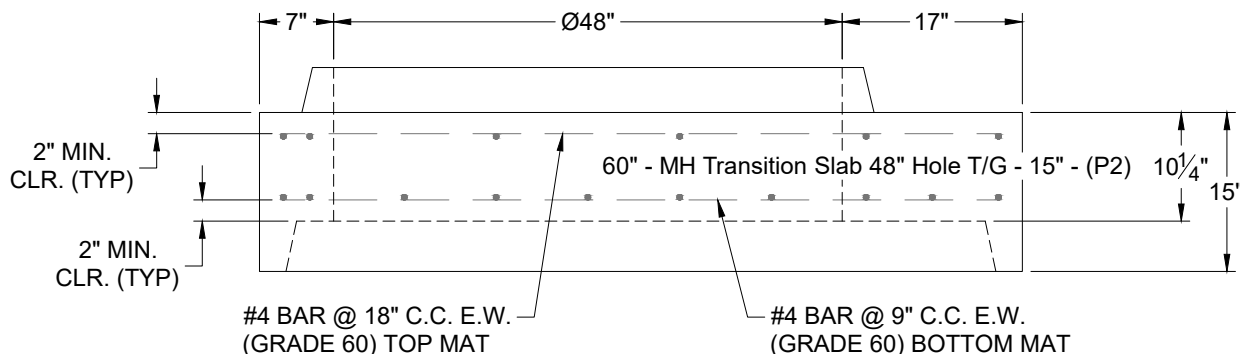
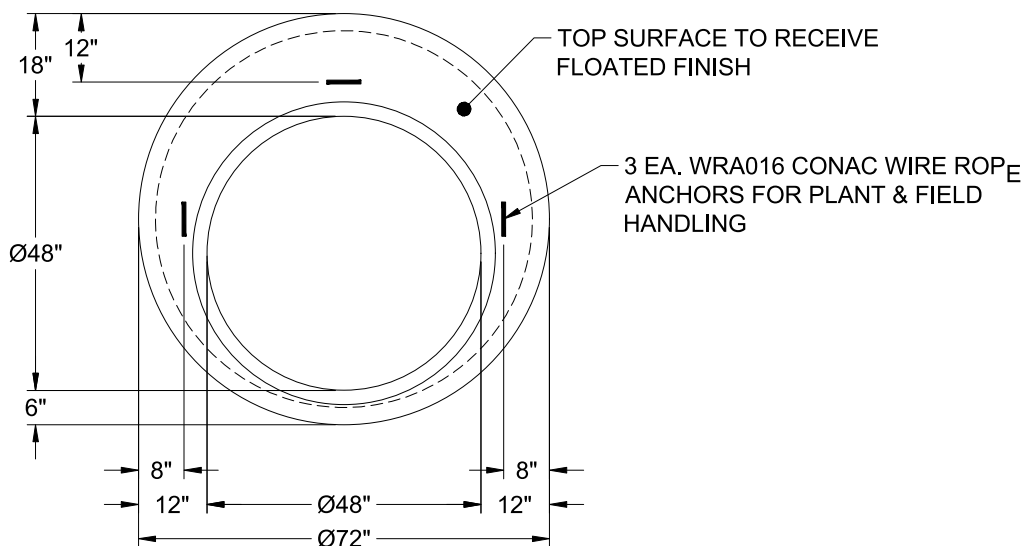
**P2 MH060TS15-48ECC**

**MH Transition Slab 48" Hole T/G**

- P5) 24" - CASTING HEIGHT - 7"
- P4) 48" - CON CONE w/24" HOLE F/G - 36"
- P3) 48" - MH RISER T/G - 72"
- P2) 60" - MH Transition Slab 48" Hole T/G - 15"
- P1) 60" - MH BASE (10"F) Custom Ht T/n - 62"
- 1) 60" - MH INVERT CHANNEL - FULL HEIGHT
- 1) 60" - Conseal CS-102 1.00" (Double)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 14) MH Step ML-10-TDS-NCR - 10"

0 lb  
 2252 lb  
 5030 lb  
 2204 lb  
 8534 lb  
 2692 lb  
 0 lb  
 0 lb  
 2 lb  
 0 lb  
 -----  
 Structure Total: 20715 lb

- Structure Notes:
1. PER ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT - 2" MIN. REBAR CLEARANCE (TYP):  
 - TOP MAT: #4 BAR @ 18" C.C. E.W. (GRADE 60)  
 - BOTTOM MAT: #4 BAR @ 9" C.C. E.W. (GRADE 60)
  4. 7" CASTING 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: Tongue  
 Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 15"

Weight (Net): 2204 lb  
 Volume (Net): 0.56cu.yd

Job Name: 26-1227 - Project Colt  
 Job Location: Evansville, IN  
 Contractor: Russell's Excavating

Plant: 100  
 5/12/2026 11:30:58 AM

Tech: Jared - F  
 PC: A. Chambers



**Structure ID: 109-19 MHK**

**P2 MH072LD10-24X36RECT**

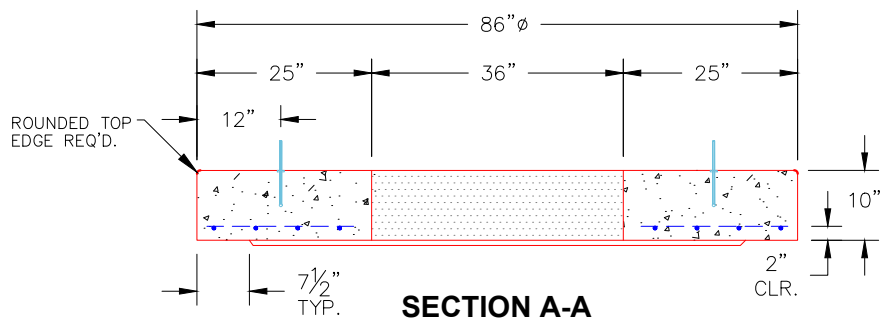
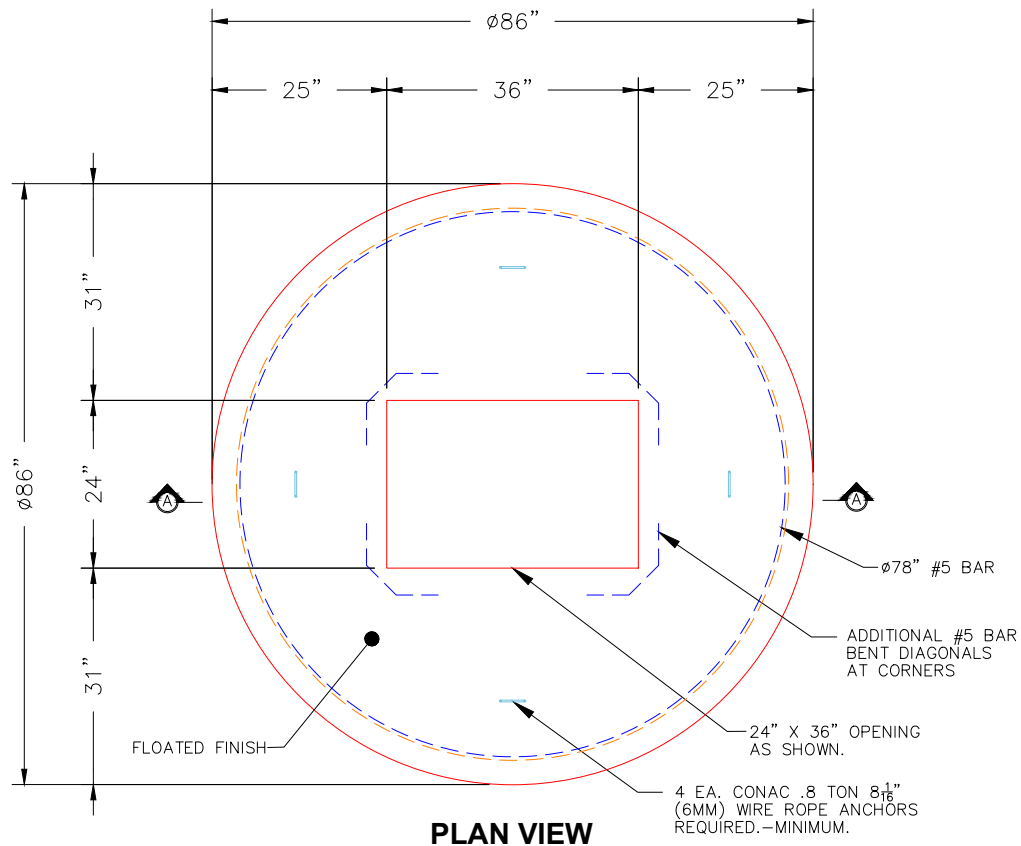
**MH FLAT TOP w/24"x36" Hole F/F**

- P3) 24" x 36" - CASTING HEIGHT - 4"
- P2) 72" - MH FLAT TOP w/24"x36" Hole F/F - 10"
- P1) 72" - MH BASE Custom Ht F/n - 72"
- 1) CASTING - HOE 518 F/G
- 1) 72" - Conseal CS-102 1.00"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 2) Hole - 50
- 2) Hole - 6
- 6) MH Step ML-10-TDS-NCR - 10"

0 lb  
 4149 lb  
 11857 lb  
 354 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 Structure Total: 16360 lb

**Structure Notes:**  
 1. INDOT MH TYPE K / ASTM C478 SPEC'S.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO INVERT CHANNEL.  
 4. CASTING BY ICAST (HOE 518 F/G).

REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..  
 - RISER/WALLS (As .18)  
 - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.



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

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 7"	Height (Ext): 10"	Weight (Net): 4149 lb Volume (Net): 1.06cu.yd
----------------------------------	--------------------------------	--------------------	-------------------	--

Job Name: 26-1227 - Project Colt  
 Job Location: Evansville, IN  
 Contractor: Russell's Excavating

Plant: 100  
 5/12/2026 11:30:20 AM

Tech: Jared - F  
 PC: A. Chambers



**Structure ID: 108-18 MHK**

**P1 MH072BAVF**

**MH BASE Custom Ht T/n**

- P5) 24" x 36" - CASTING HEIGHT - 4"
- P4) 48" - MH FLAT TOP w/24"x36" Hole F/F - 7"
- P3) 48" - MH RISER Custom Ht F/G - 23"
- P2) 72" - MH Transition Slab 48" Hole T/G - 15"
- P1) 72" - MH BASE Custom Ht T/n - 62"
- 1) CASTING - HOE 518 F/G
- 1) 72" - Conseal CS-102 1.00"
- 2) 48" - Conseal CS-102 1.00"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 2) Hole - 50
- 2) Hole - 6
- 8) MH Step ML-10-TDS-NCR - 10"

0 lb  
 1044 lb  
 1583 lb  
 3864 lb  
 10432 lb  
 354 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 Structure Total: 17278 lb

**Structure Notes:**  
 1. INDOT MH TYPE K / ASTM C478 SPEC'S.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO INVERT CHANNEL.  
 4. CASTING BY ICAST (HOE 518 F/G).

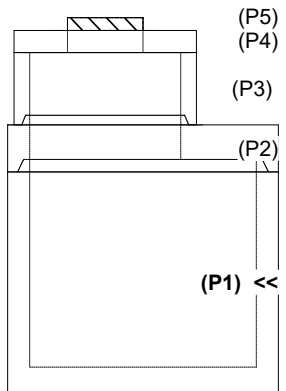
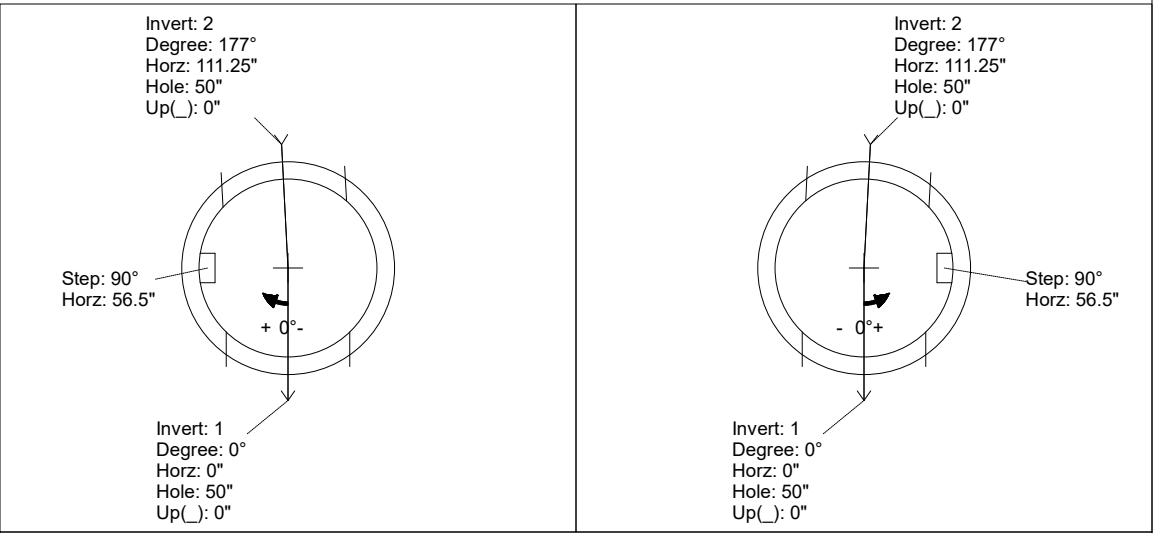
REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..  
 - RISER/WALLS (As .12)  
 - TRANS. SLAB (As .62) #5 BARS AT 6" C.C.E.W..  
 - RISER/WALLS (As .18)  
 - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

Rim: 384.68' Rim to Invert: 9.04' Slack: 0.6" Sump: 3.12" Step Position: 90°

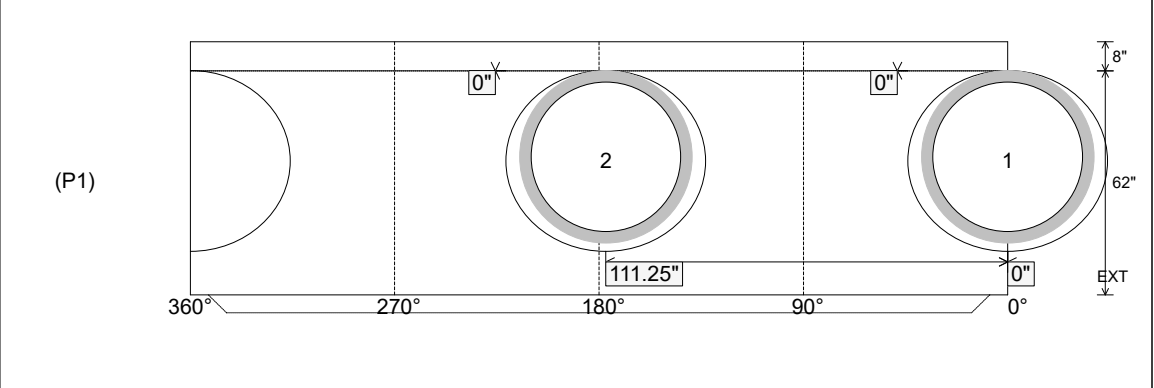
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	375.64'	0°	0"	42" HDPE	47.7"	Hole 50	50"	55.271"	0"	0"
Invert 2	375.64'	177°	132.875"	42" HDPE	47.7"	Hole 50	50"	55.271"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 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: 7" Floor Height: 8"	Height (Int): 62" Height (Ext): 70"	Weight (Net): 10432 lb Volume (Net): 2.66cu.yd
----------------------------------	---------------------------------	--	--	---

Job Name: 26-1227 - Project Colt  
 Job Location: Evansville, IN  
 Contractor: Russell's Excavating

Plant: 100  
 5/12/2026 11:30:19 AM

Tech: Jared - F  
 PC: A. Chambers



**Structure ID: 107-17 MHK**

**P1 MH072BAVF**

**MH BASE Custom Ht F/n**

- P3) 24" x 36" - CASTING HEIGHT - 4"
- P2) 72" - MH FLAT TOP w/24"x36" Hole F/F - 10"
- P1) 72" - MH BASE Custom Ht F/n - 82"
- 1) CASTING - HOE 518 F/G
- 1) 72" - Conseal CS-102 1.00"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 2) Hole - 50
- 2) Hole - 6
- 7) MH Step ML-10-TDS-NCR - 10"

0 lb  
 4149 lb  
 13314 lb  
 354 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb

Structure Total: 17818 lb

Structure Notes:

1. INDOT MH TYPE K / ASTM C478 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. CASTING BY ICAST (HOE 518 F/G).

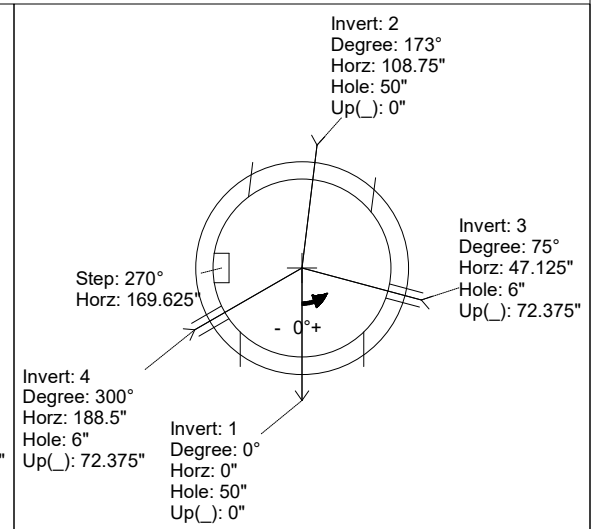
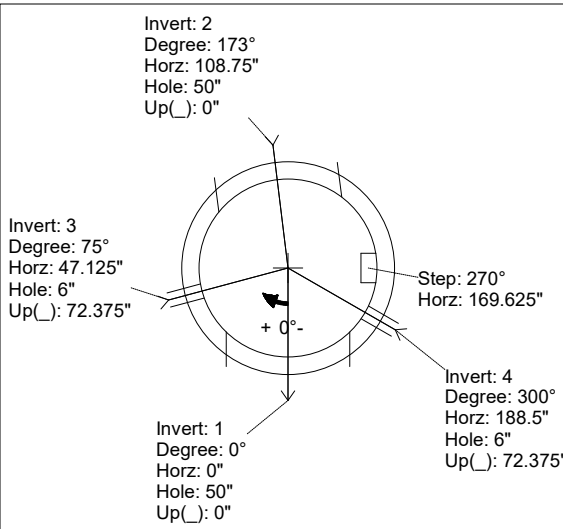
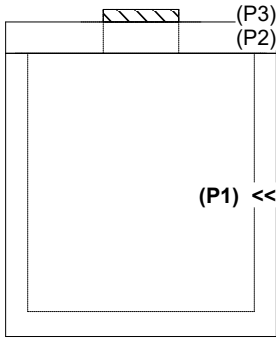
REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..  
 - RISER/WALLS (As .18)  
 - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

Rim: 384' Rim to Invert: 7.8' Slack: 0.72" Sump: 3.12" Step Position: 270°

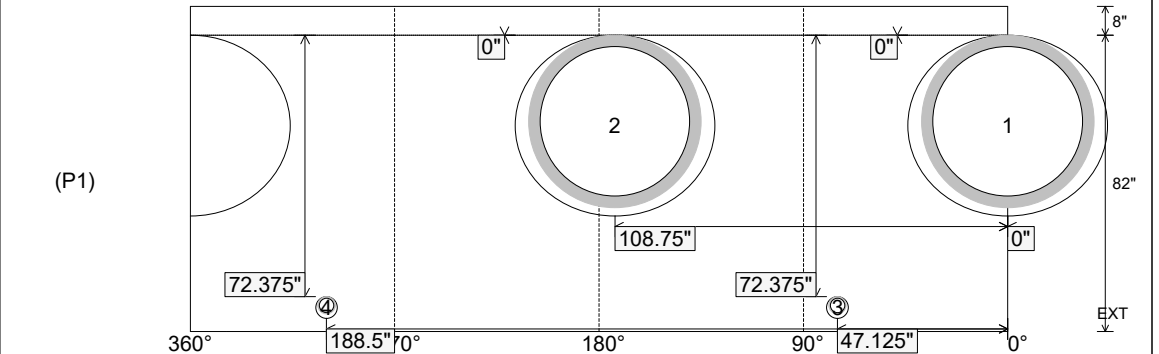
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	376.2'	0°	0"	42" HDPE	47.7"	Hole 50	50"	55.271"	0"	0"
Invert 2	376.2'	173°	129.875"	42" HDPE	47.7"	Hole 50	50"	55.271"	0"	0"
Invert 3	382'	75°	56.25"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.007"	72.375"	0"
Invert 4	382'	300°	225.125"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.007"	72.375"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

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

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



**INSIDE WALL DIMENSIONS**



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 7" Floor Height: 8"	Height (Int): 82" Height (Ext): 90"	Weight (Net): 13314 lb Volume (Net): 3.4cu.yd
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**Structure ID: 15-CS-8**

**P3 MH096RS78**

**MH RISER T/G**

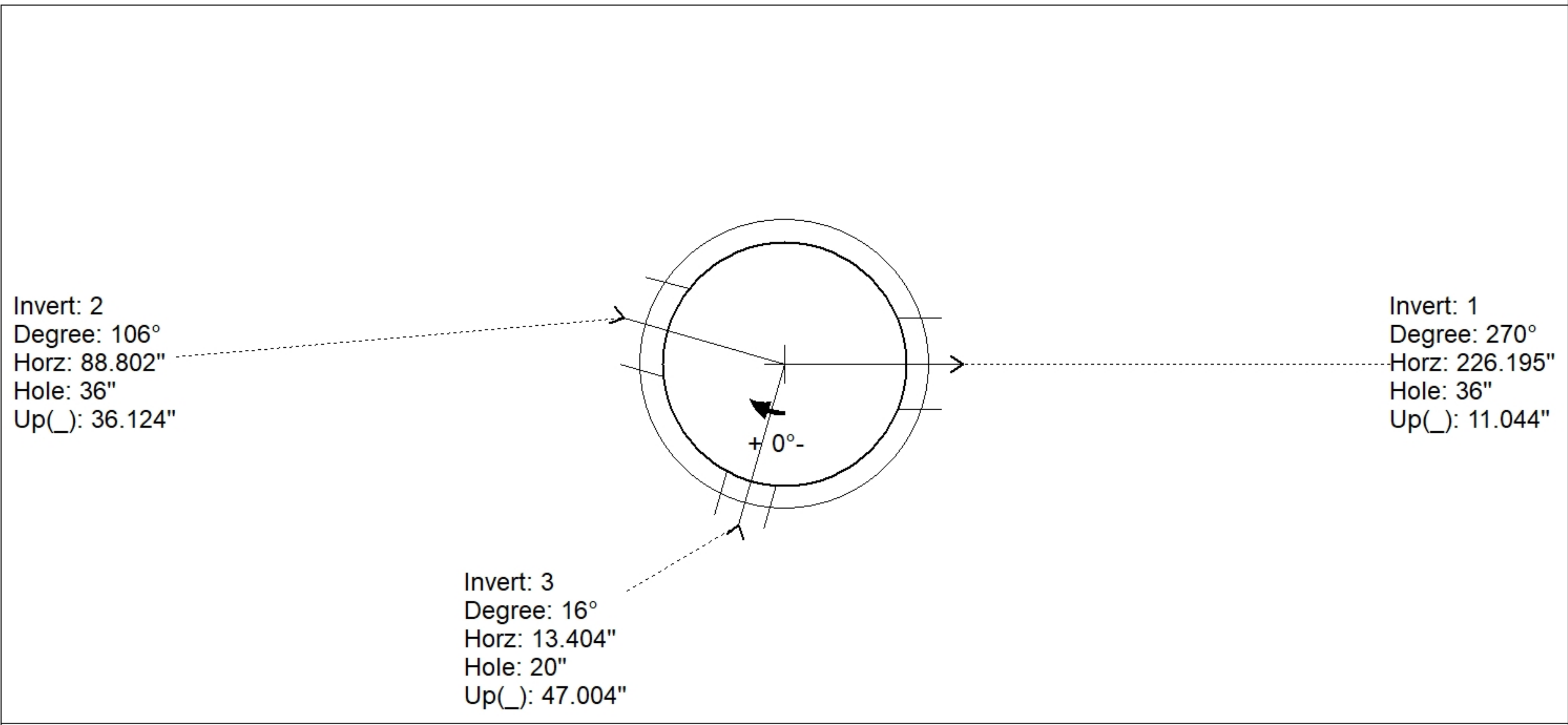
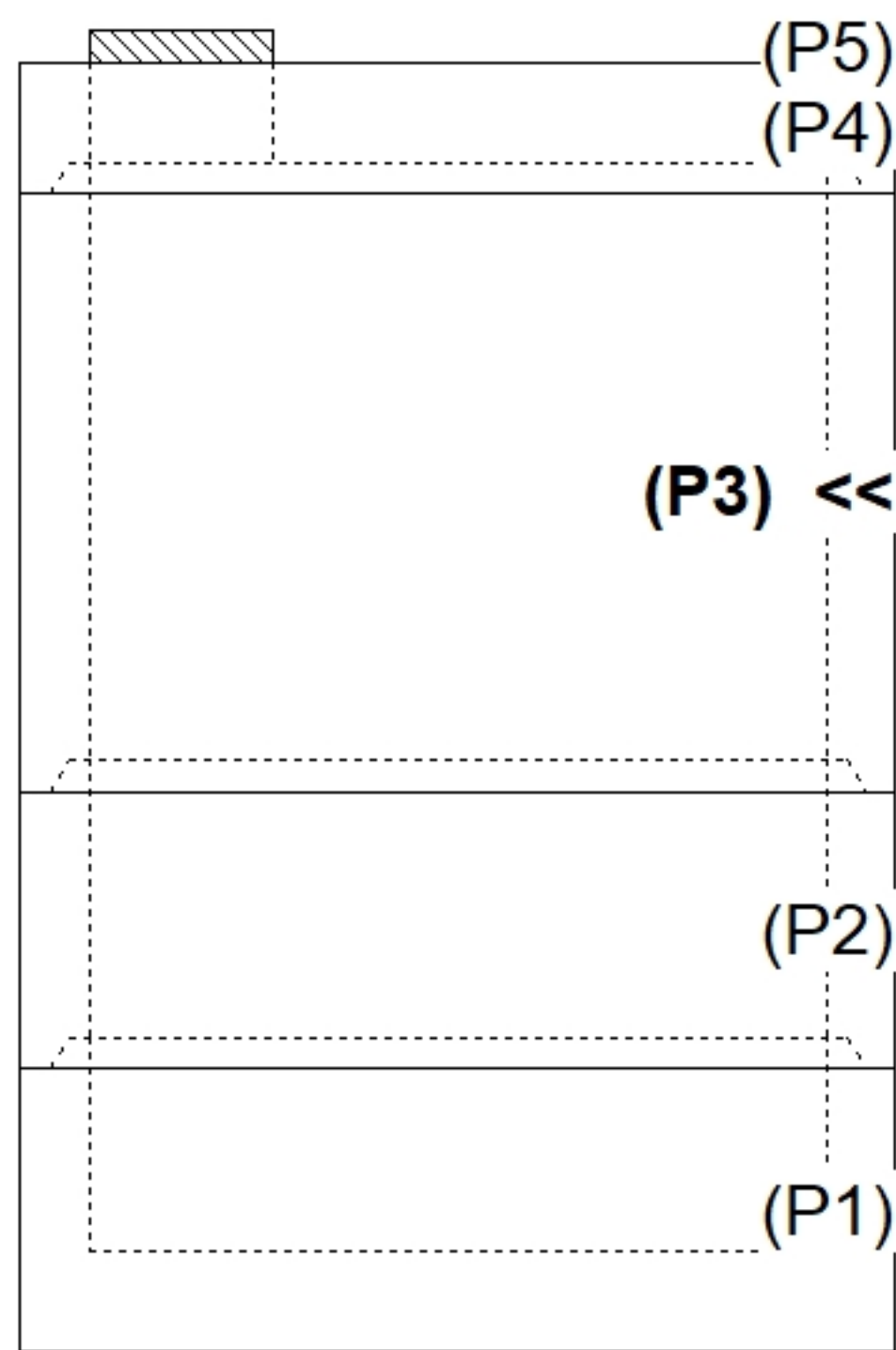
P5) 24" - CASTING HEIGHT - 4" P4) 96" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 17" P3) 96" - MH RISER T/G - 78" P2) 96" - MH RISER T/G - 36" P1) 96" - MH MONOBASE 13F, Custom Ht T/n - 24" 1) CVSTENCILING 1) ASSEMBLY REQUIRED 3) 96" - Conseal CS-102 1.00" 2) Hole - 36 1) Hole - 20	0 lb 10015 lb 17622 lb 8968 lb 17113 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- <b>Structure Total: 53719 lb</b>
---	--

**Structure Notes:** 4" CASTING BY OTHERS LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE ICAST TO INSTALL INTERNALS CONTECH'S LOGO AS WELL AS THE INLET AND OUTLET MUST BE STENCILED ONTO THE STRUCTURE P2 & P3 RISERS TO BE MECHANICALLY ATTACHED PRIOR TO INSTALL

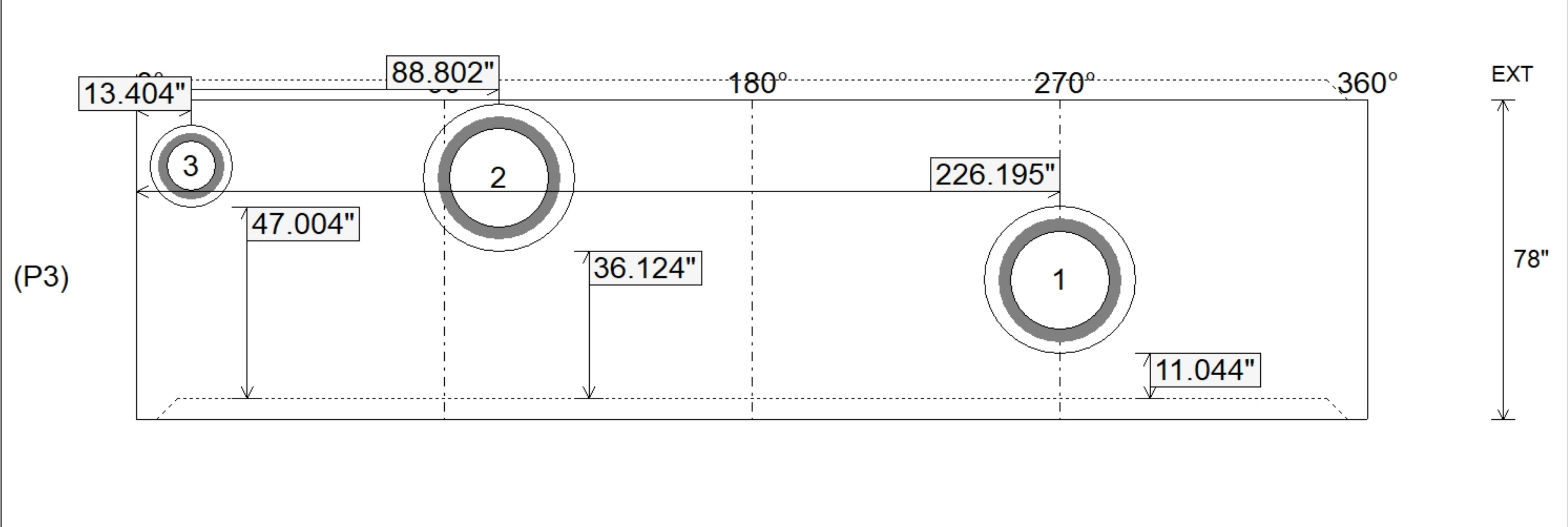
Rim: 929.71'    Rim to Invert: 7.65'    Slack: 14.844"    Sump: 82.044"    Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	922.06'	270°	268.606"	24" RCP B WALL	30"	Hole 36	36"	36.902"	11.044"	0"
Invert 2	924.15'	106°	105.453"	24" RCP B WALL	30"	Hole 36	36"	36.902"	36.124"	0"
Invert 3	924.89'	16°	15.917"	12" RCP B WALL	16"	Hole 20	20"	20.148"	47.004"	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: 9" Floor Height: 0"	Height (Int): 78" Height (Ext): 78"	Weight (Net): 17622 lb Volume (Net): 4.5cu.yd
----------------------------------	------------------------------------	--	--	--

Job Name: 26-2324 880717 Shepper & Converse Ave	Plant: Beaver Dam	Tech: S. Felletter	
Job Location: Plain City, OH Contractor: Contech Engineering Solutions	5/14/2026 10:49:21 AM	PC: C. Goff	

**Structure ID: 15-CS-8**

**P2 MH096RS36**

**MH RISER T/G**

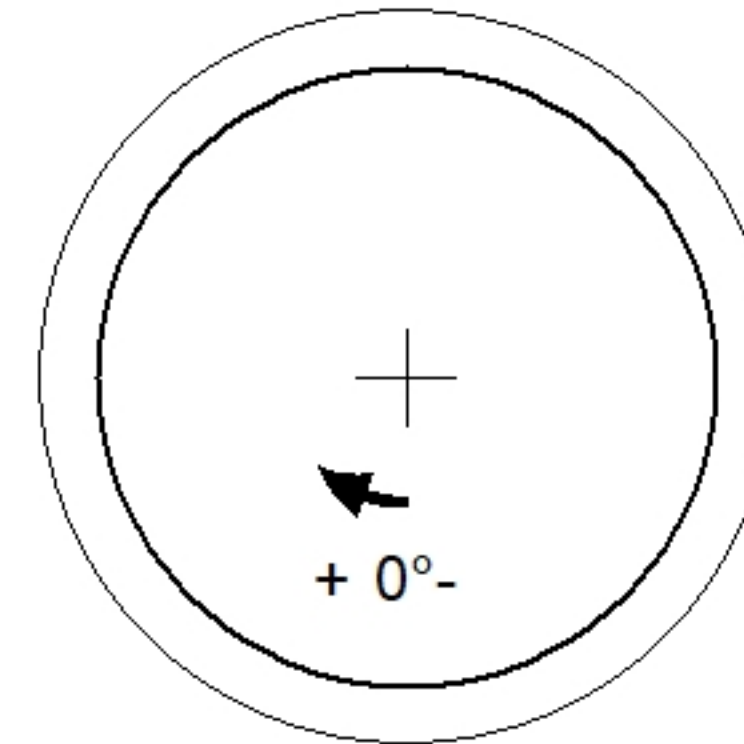
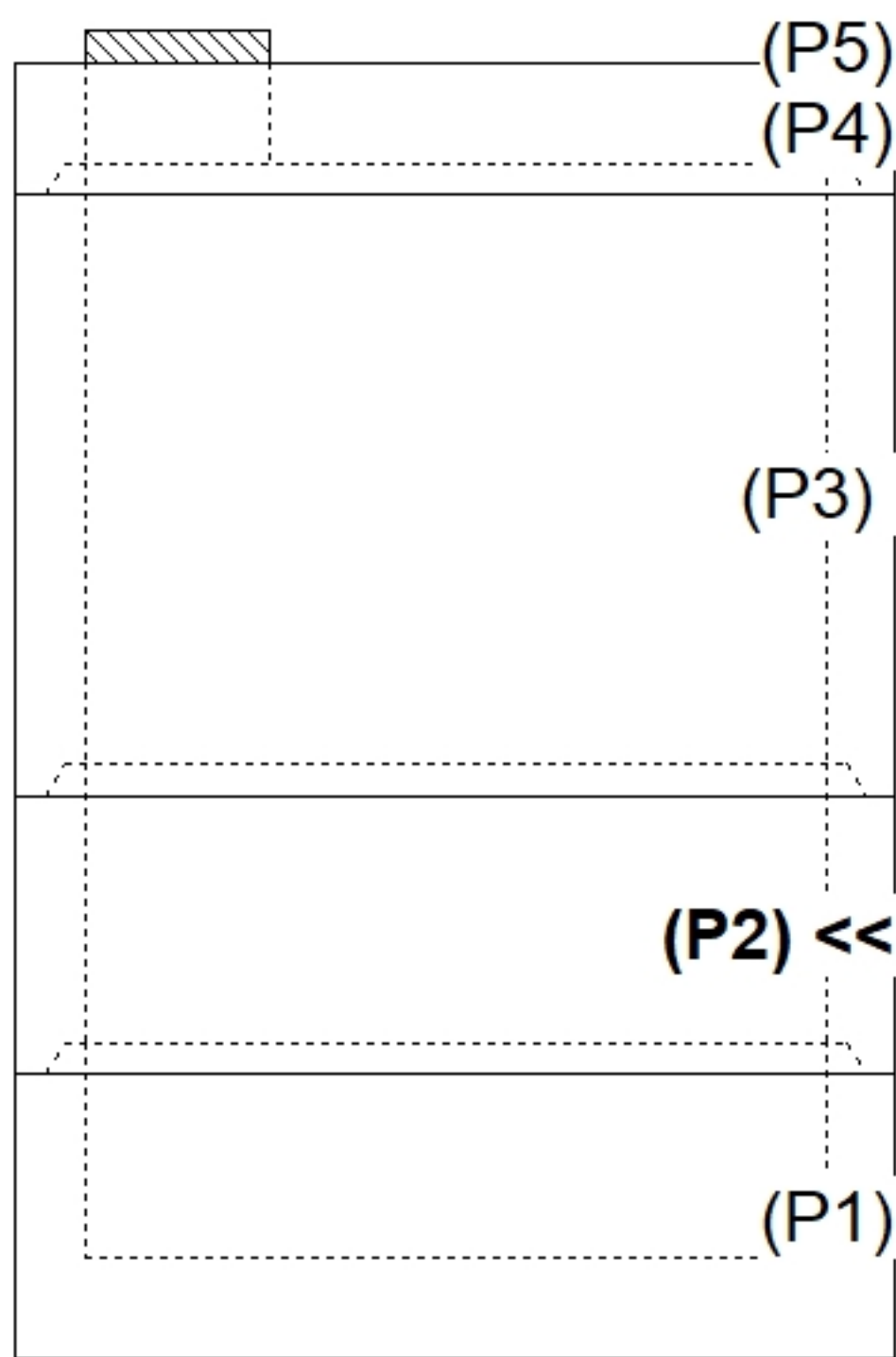
P5) 24" - CASTING HEIGHT - 4"	0 lb
P4) 96" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 17"	10015 lb
P3) 96" - MH RISER T/G - 78"	17622 lb
P2) 96" - MH RISER T/G - 36"	8968 lb
P1) 96" - MH MONOBASE 13F, Custom Ht T/n - 24"	17113 lb
1) CVSTENCILING	0 lb
1) ASSEMBLY REQUIRED	0 lb
3) 96" - Conseal CS-102 1.00"	0 lb
2) Hole - 36	0 lb
1) Hole - 20	0 lb
Structure Total:	53719 lb

**Structure Notes:** 4" CASTING BY OTHERS LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE ICAST TO INSTALL INTERNALS CONTECH'S LOGO AS WELL AS THE INLET AND OUTLET MUST BE STENCILED ONTO THE STRUCTURE P2 & P3 RISERS TO BE MECHANICALLY ATTACHED PRIOR TO INSTALL

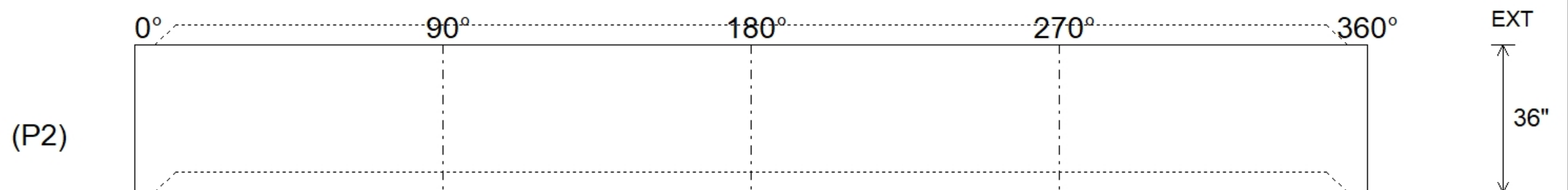
Rim: 929.71' Rim to Invert: 7.65' Slack: 14.844" Sump: 82.044" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	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**



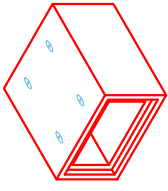
Coating (Int):	Seam Up: Tongue	Wall Thickness: 9"	Height (Int): 36"	Weight (Net): 8968 lb
Coating (Ext):	Seam Dn: Groove	Floor Height: 0"	Height (Ext): 36"	Volume (Net): 2.29cu.yd



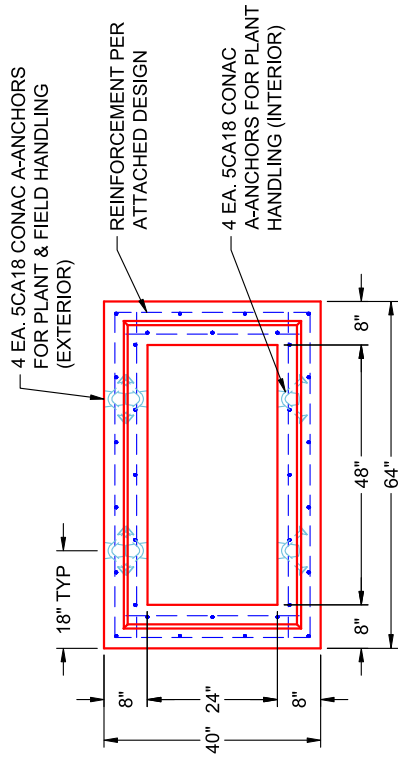
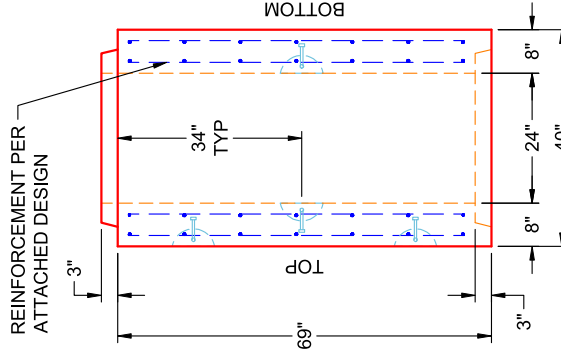
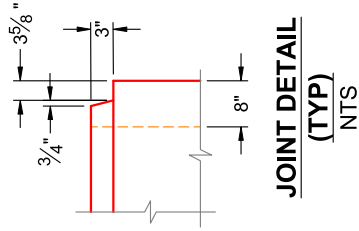
**Structure ID: BC 4 x 2 (PC 5)**

**P1 BC048024-08WLF**

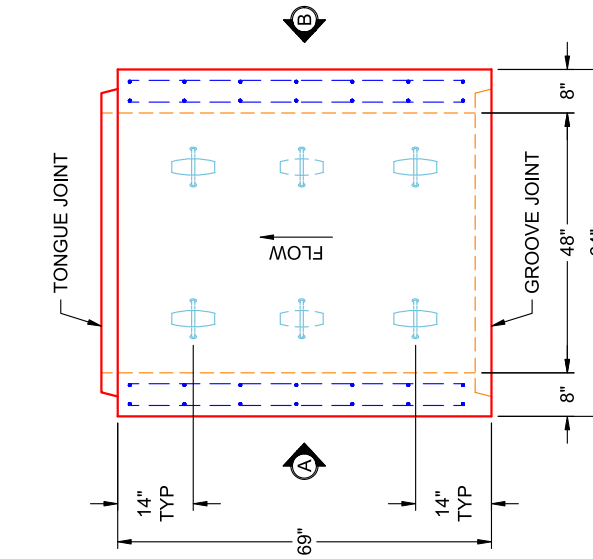
**BOX CULVERT (08W/08F/08T) No Haunch G/T**



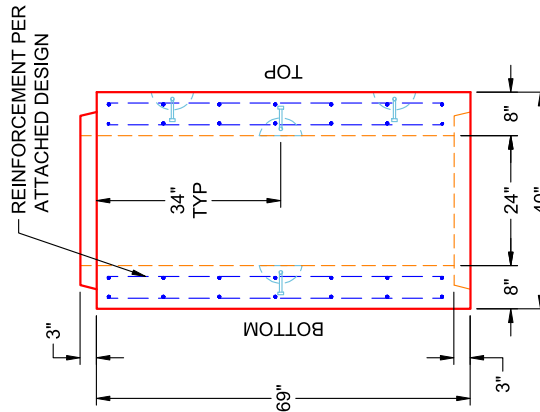
**COMPONENT ISOMETRIC VIEW**



**END VIEW TYPICAL**



**PLAN VIEW PC 5 (UPRIGHT IN MOLD)**



**VIEW A PC 5 (UPRIGHT IN MOLD)**

**GENERAL NOTES:**

1. MANUFACTURED TO ASTM C-1577 & SECTION 714 OF INDOT STANDARD SPECIFICATIONS FOR REINFORCED CONCRETE BOX STRUCTURES
2. LOAD REQUIREMENTS: HL93
3. REINFORCEMENT PER ATTACHED DESIGN
4. COVER DEPTH: 4'-8"
5. CONCRETE: 5,000 PSI AT 28 DAYS
6. JOINT SEALANT: 1" BUTYL MASTIC (CS-102) EXTERIOR JOINT WRAP: 12" WIDE (CS-212)
7. WEIGHT: 4' X 2' (48" X 24") RCBC = 1,418 LBS / LF (69" LONG SECTION = 8,152 LBS)

# INFRASTRUCTURE PRECAST (ICAST)

Sht \_\_\_\_\_ of \_\_\_\_\_  
 By: J. Horsley  
 Ck: \_\_\_\_\_  
 5/11/2026 4:10:17 PM  
 p. 1 of 3

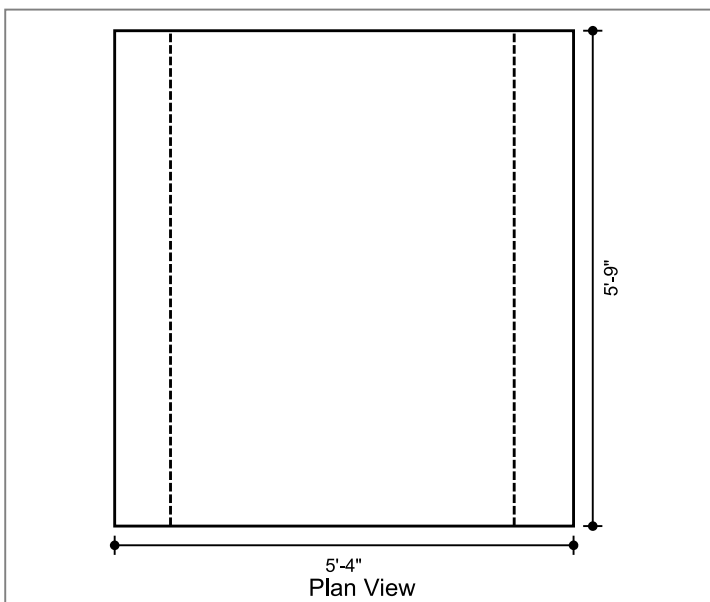
Project : Alcoa Outfall  
 Task :  
 Job No. : 25-2073

Client: Bowen Engineering Co  
 File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

Spec.: LRFD 9th ed.  
 Type of Culvert: Precast

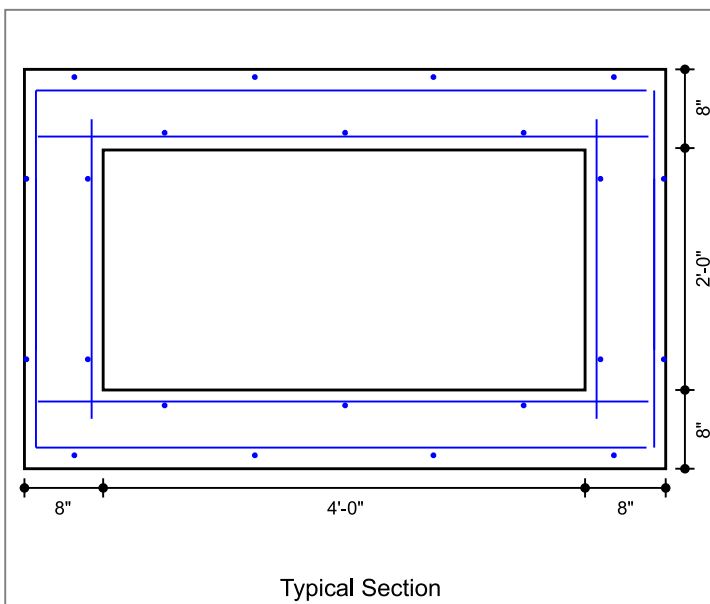
## Physical Dimensions

Clear Span: 4'-0"  
 Clear Height: 2'-0"  
 Top Slab: 8"  
 Bottom Slab: 8"  
 Ext. Wall: 8"  
 Fill Depth Range  
 Maximum: 7.99 ft  
 Minimum: 4.00 ft  
 Increment: 0.50 ft  
 Length: 5'-9"  
 Skew Angle: 0.00 deg  
 Bottom Slab Support: Full Slab  
 Top Haunch, Width: 0"  
 Top Haunch, Height: 0"  
 Bottom Haunch, Width: 0"  
 Bottom Haunch, Height: 0"



## Material Properties

Concrete  
 Strength, f<sub>c</sub>: 5.000 ksi  
 Density: 0.150 kcf  
 Elasticity, E<sub>c</sub>: 3834 ksi  
 Type: Normal wt  
 Steel  
 Yield, f<sub>y</sub>: 60 ksi  
 Allow Stress: 36 ksi  
 Elasticity, E<sub>s</sub>: 29000 ksi  
 Soil  
 Density: 0.120 kcf  
 Exposure Factor  
 Class 2 Exposure  
 Reinforcement Covers  
 Ext. Cover Top Slab: 2"  
 Ext. Cover Bottom Slab: 1"  
 Ext. Cover Walls: 1"  
 Int. Cover Walls: 1"  
 Int. Cover Top Slab: 1"  
 Int. Cover Bottom Slab: 1"



## Controlling Ratings

Inventory Rating: NaN  
 Operating Rating: NaN

## Loads

Live Load  
 Vehicle Names: HL-93  
 Traffic Direction: Parallel  
 Eq. Height of Soil: Calculated  
 Dead Load  
 Future Wearing Surface: 0.000 klf  
 Additional Dead Load: 0.000 klf  
 Concentrated Loads: none

Lateral Soil Loads  
 Eq. Fluid Press. Max: 60.00 pcf  
 Eq. Fluid Press. Min: 30.00 pcf

Interior Water Pressure: yes, head pressure = 0 ft  
 Exterior Water Pressure: no

# INFRASTRUCTURE PRECAST (ICAST)

Sht \_\_\_\_\_ of \_\_\_\_\_

By: J. Horsley

Ck: \_\_\_\_\_

5/11/2026 4:10:17 PM

etc of 3

Project : Alcoa Outfall

Task :

Client: Bowen Engineering Co

Job No. : 25-2073

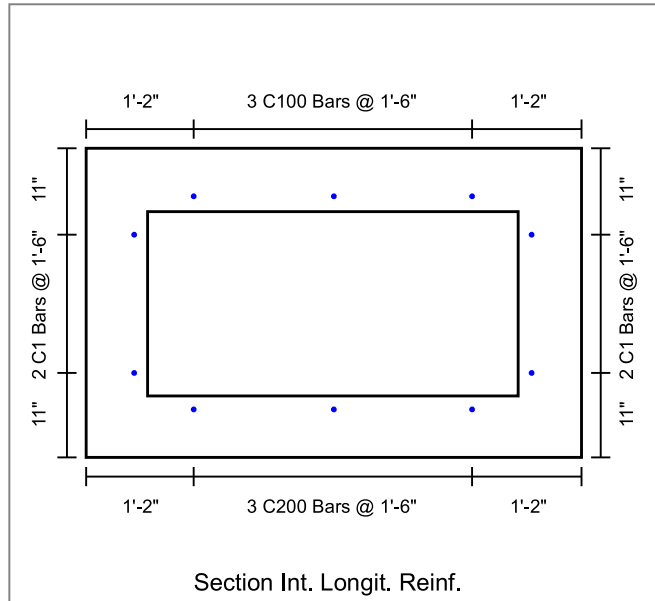
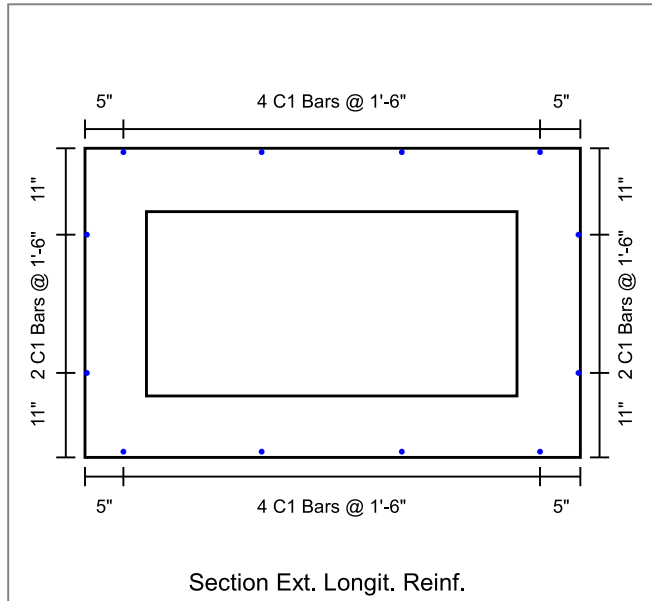
File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

## Concrete Summary

Volume of Concrete: 0.362 cy/ft Total Volume of Concrete: 2.082 cy

## Reinforcing Steel Bar Schedule (lb)

Location	Mark	Qty	Size	Spacing	Type	Length	Center	Ver. Leg	Tot. Weight
Top Slab(Int)	A100 (AS2)	6	4	1'-0"	S	5'-1"	--	--	20.0
Bot Slab(Int)	A200 (AS3)	6	4	1'-0"	S	5'-1"	--	--	20.0
Corner(Top)	A1 (AS1)	6	4	1'-0"	U	9'-5"	5'-1"	2'-2"	38.0
Corner(Bot)	A2 (AS1)	6	4	1'-0"	U	9'-7"	5'-1"	2'-3"	38.0
Wall(Int)	B1 (AS4)	12	4	1'-0"	S	2'-6"	--	--	20.0
Longit. Top (Int)	C100 (AS5)	3	3	1'-6"	S	5'-8"	--	--	6.0
Longit. Bot (Int)	C200	3	3	1'-6"	S	5'-8"	--	--	6.0
Longit. Top (Ext)	C1 (AS6)	4	3	1'-6"	S	5'-8"	--	--	8.6
Longit. Bot (Ext)	C1 (AS6)	4	3	1'-6"	S	5'-8"	--	--	8.6
Longit. Wall (Ext)	C1 (AS6)	4	3	1'-6"	S	5'-8"	--	--	8.6
Longit. Wall (Int)	C1 (AS6)	4	3	1'-6"	S	5'-8"	--	--	8.6
									182



# INFRASTRUCTURE PRECAST (ICAST)

Sht \_\_\_\_\_ of \_\_\_\_\_

By: J. Horsley

Ck: \_\_\_\_\_

5/11/2026 4:10:17 PM

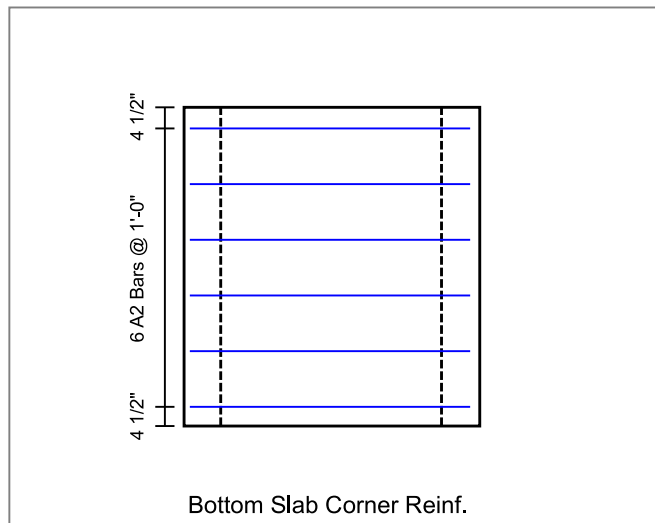
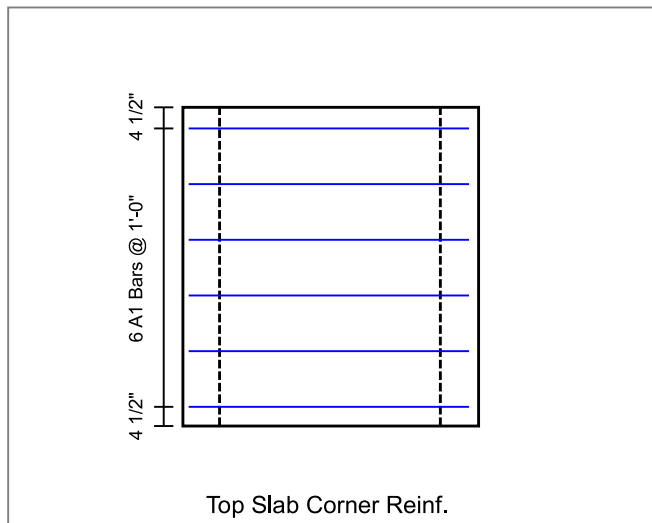
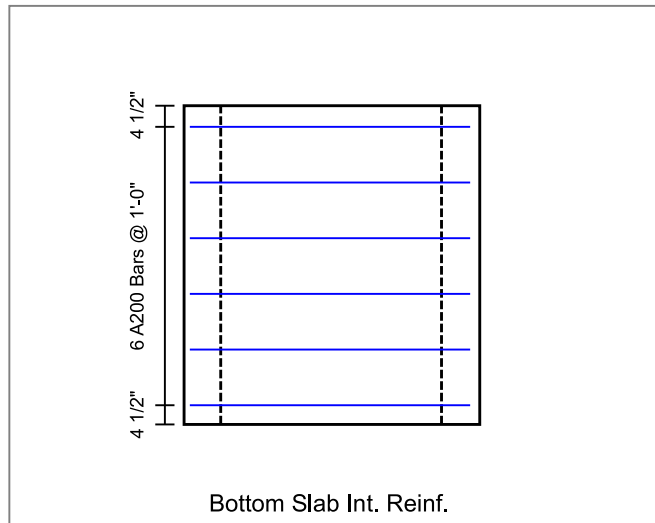
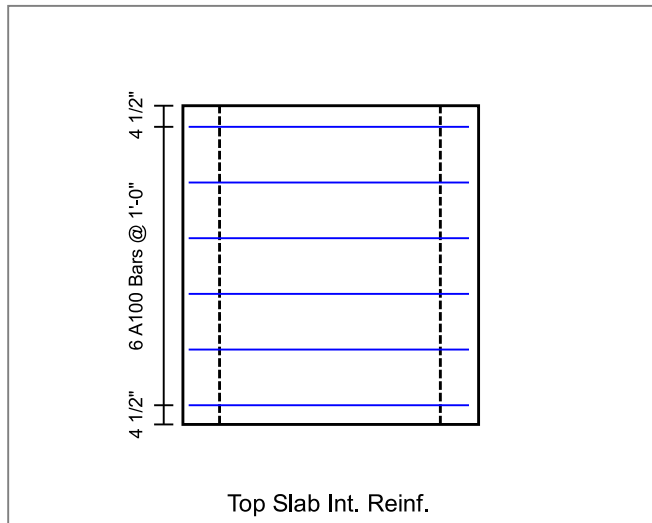
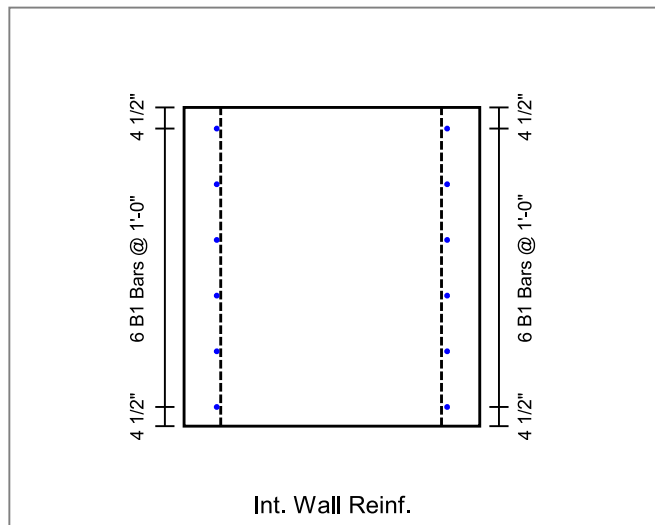
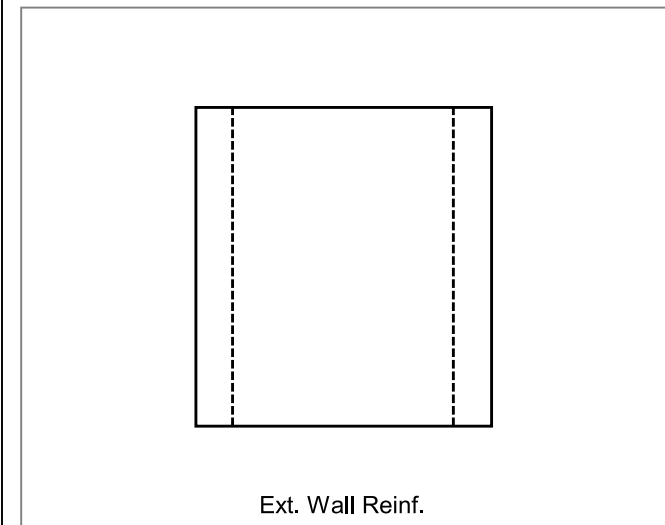
Project : Alcoa Outfall

Client: Bowen Engineering Co

Task :

File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

Page 3 of 3



Job Name: 26-1227 - Project Colt  
 Job Location: Evansville, IN  
 Contractor: Russell's Excavating

Plant: 100

5/12/2026 11:30:14 AM

Tech: Jared - F

PC: A. Chambers



**Structure ID: 303A-6 MHJ**

**P1 BX2436-08BA54**

**BOX BASE 8inW, 8inF F/n**

- P2) 24" x 36" - CASTING HEIGHT - 4"
- P1) 24" x 36" - BOX BASE 8inW, 8inF F/n - 54"
- 1) CASTING - HOE 518 F/G
- 1) 24" x 36" - Conseal CS-102 1.00"
- 1) Hole - 20
- 1) Hole - 6
- 1) Hole - 8

0 lb  
 6635 lb  
 354 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 6989 lb

**Structure Notes:**

1. INDOT INLET TYPE J / ASTM C913 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO STEPS AND NO INVERT CHANNEL.
4. CASTING BY ICAST (HOE 518 F/G).

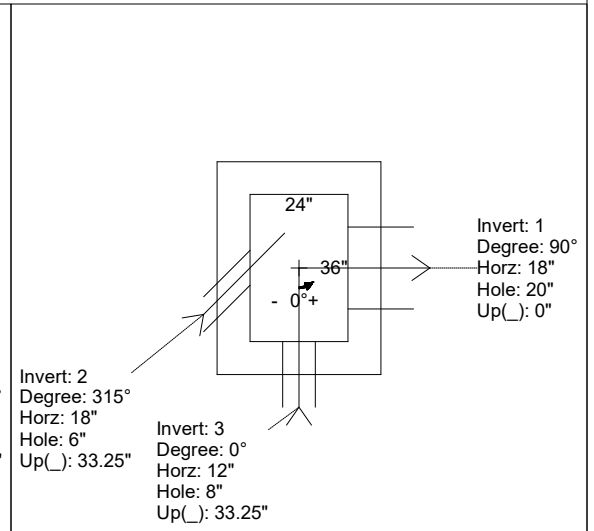
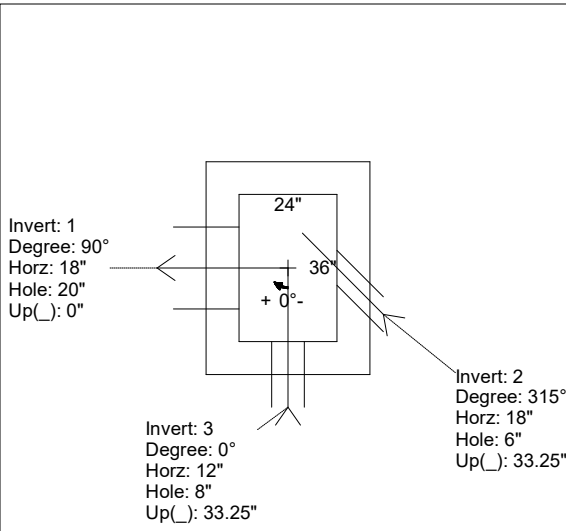
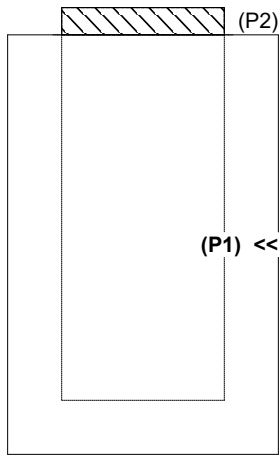
REINFORCING PER ASTM A615 (GRADE 60).  
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 381.73' Rim to Invert: 4.73' Slack: 0.01" Sump: 1.25" Step Position:

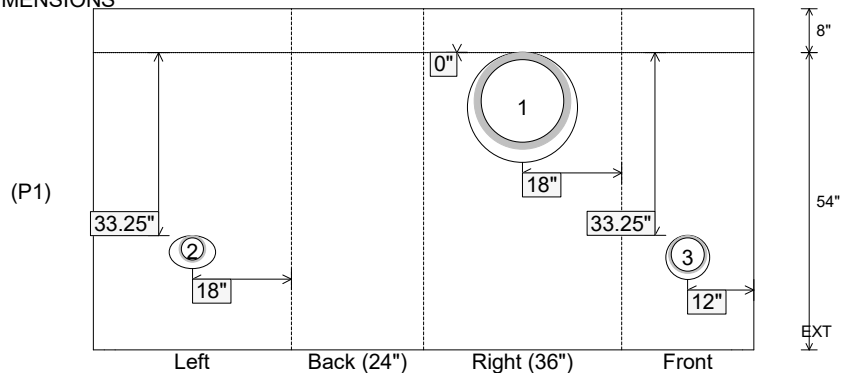
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	377'	90°	26"	15" HDPE	17.6"	Hole 20	20"	20"	0"	0"
Invert 2	379.7'	315°	34"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	8.485"	33.25"	-8.5"
Invert 3	379.7'	0°	20"	6" HDPE (perf pipe)	6.9"	Hole 8	8"	8"	33.25"	0"
Invert 4										
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): 54"  
 Height (Ext): 62"

Weight (Net): 6635 lb  
 Volume (Net): 1.7cu.yd

**Structure ID: 142**

**P1 BX24300808VF**

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

- P3) 15" x 27" - P.I.P. - BY OTHERS - 8"
- P2) 24" x 30" - CB FLAT TOP 8"W w/15"x27" HOLE F/F - 8"
- P1) 24" x 30" - BOX BASE 8inW, 8inF, Variable Ht F/n - 38"
- 1) 24" x 30" - Conseal CS-102 1.00"
- 1) 15" x 27" - Conseal CS-102 1.00"
- 1) Hole - 20
- 1) Hole - 18
- 2) Hole - 4

0 lb  
 963 lb  
 4408 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 Structure Total: 5371 lb

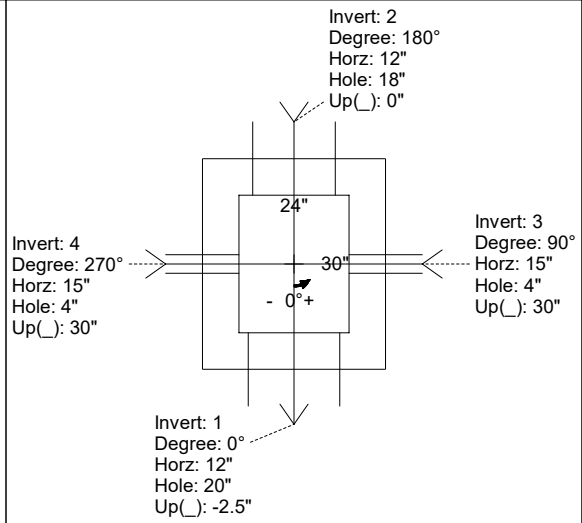
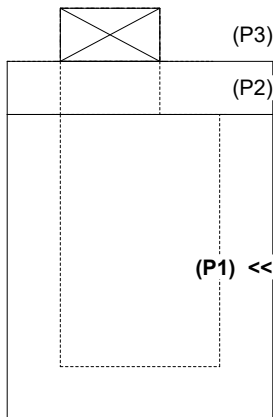
- Structure Notes:  
**\*\*KYTC STATE PROJECT\*\***  
 1. PER KYTC DBI TYPE 13G / ASTM C-913 SPECS  
 2. CONCRETE: 4,000 PSI AT 28 DAYS  
 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)  
 4. NO STORM INVERT  
 5. NO STEPS  
 6. HOE KY-230G FRAME & GRATE SUPPLIED BY OTHERS

Rim: 563.24'    Rim to Invert: 4.5'    Slack: 0"    Sump: 0"    Step Position:

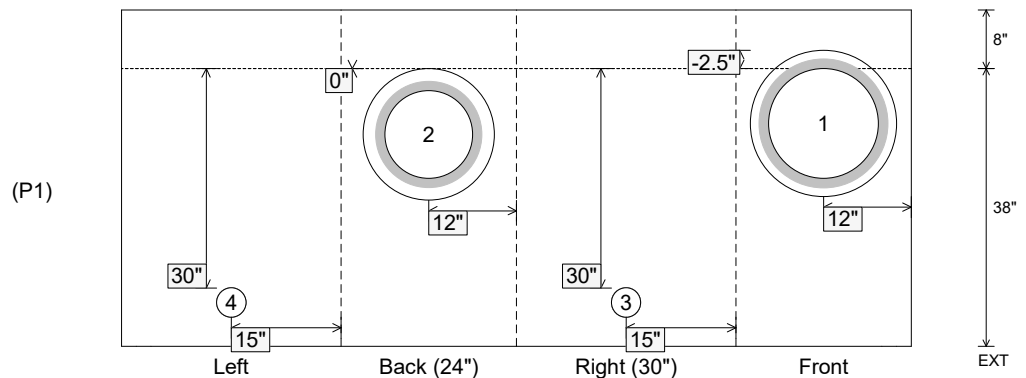
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	558.74'	0°	20"	15" HDPE	17.6"	Hole 20	20"	20"	-2.5"	0"
Invert 2	558.99'	180°	20"	12" HDPE	14.5"	Hole 18	18"	18"	0"	0"
Invert 3	561.24'	90°	23"	4" WEEP HOLE	4"	Hole 4	4"	4"	30"	0"
Invert 4	561.24'	270°	23"	4" WEEP HOLE	4"	Hole 4	4"	4"	30"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 38" Height (Ext): 46"	Weight (Net): 4408 lb Volume (Net): 1.13cu.yd
----------------------------------	-------------------------------	--	--	--

Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315)	Plant: 100	Tech: J. Horsley - A
Job Location: Indiana, KY	5/12/2026 12:59:27 PM	PC: J. Jarvis
Contractor: Louisville Paving and Construction		



**Structure ID: 125**

**P1 BX18180606VF**

**BOX BASE 6inW, 6inF, Variable Ht T/n**

- P3) 18" x 18" - CASTING HEIGHT - 4"
- P2) 18" x 18" - BOX RISER 6inW, Variable Ht F/G - 12"
- P1) 18" x 18" - BOX BASE 6inW, 6inF, Variable Ht T/n - 20"
- 2) 18" x 18" - Conseal CS-102 1.00"
- 1) Hole - 16

0 lb  
 580 lb  
 1319 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 1899 lb

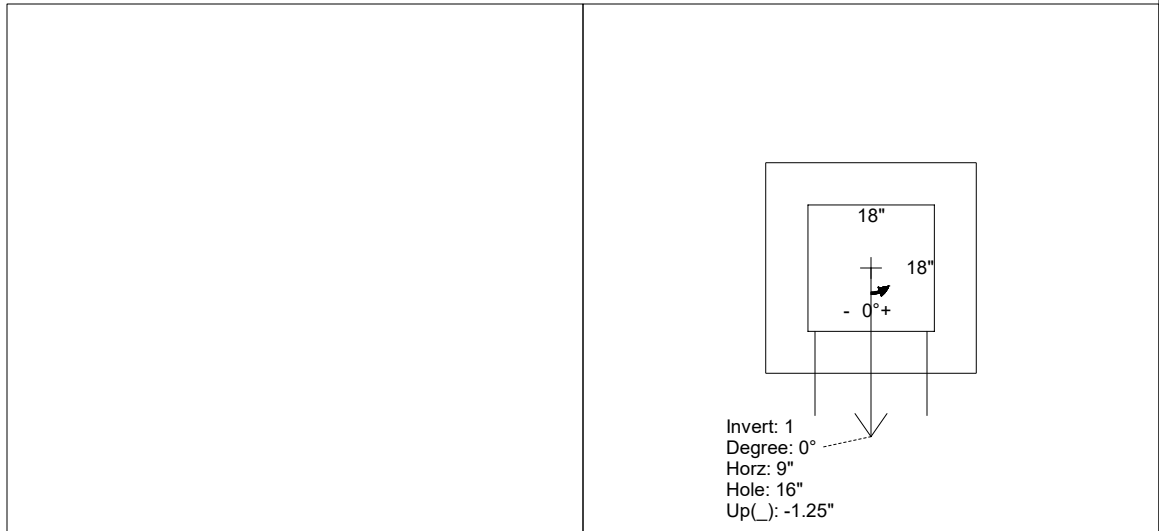
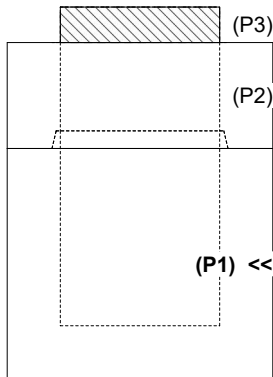
- Structure Notes:
1. PER MSD YARD DRAIN / ASTM C-913 SPECS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT: #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  4. NO STORM INVERT
  5. NO STEPS
  6. HOE 165-A FRAME & GRATE SUPPLIED BY OTHERS

Rim: 566.35'    Rim to Invert: 3'    Slack: 0"    Sump: 0"    Step Position:

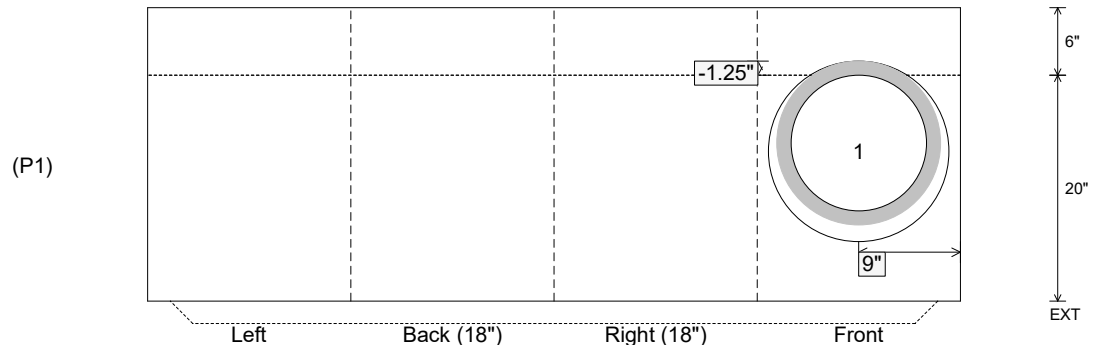
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	563.35'	0°	15"	12" HDPE	14.5"	Hole 16	16"	16"	-1.25"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS

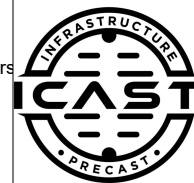


Coating (Int):	Seam Up: Tongue	Wall Thickness: 6"	Height (Int): 20"	Weight (Net): 1319 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 6"	Height (Ext): 26"	Volume (Net): 0.34cu.yd

Job Name: 26-1430 Commercial Strip Center at Gateway Commons  
 Job Location: Owensboro, KY  
 Contractor: Winwater Hartford KY Co.

Plant: 100  
 4/27/2026 9:25:36 AM

Tech: Jared - A  
 PC: Andy Chambers



**Structure ID: BE-7**

**P1 BX3030-06VH**

**BOX BASE 6inW, 6inF, Variable Ht F/n**

- P2) 30" x 30" - CASTING HEIGHT - 4"
- P1) 30" x 30" - BOX BASE 6inW, 6inF, Variable Ht F/n - 28"
- 1) CASTING - HOE 468 F/G
- 1) 30" x 30" - Conseal CS-102 1.00"
- 1) Hole - 20
- 1) Hole - 16

0 lb  
 2617 lb  
 489 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 0 lb  
 Structure Total: 3106 lb

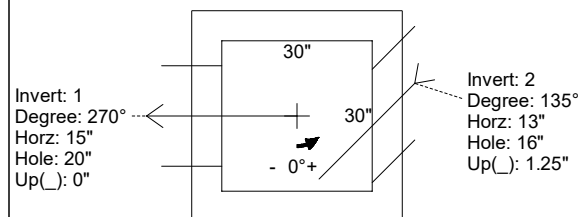
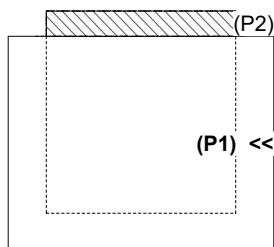
- Structure Notes:
1. PER ASTM C-913 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  4. NO STORM INVERT
  5. NO STEPS
  6. HOE 468 FRAME & GRATE SUPPLIED BY ICAST

Rim: 467.61' Rim to Invert: 2.72' Slack: 2.14" Sump: 1.5" Step Position:

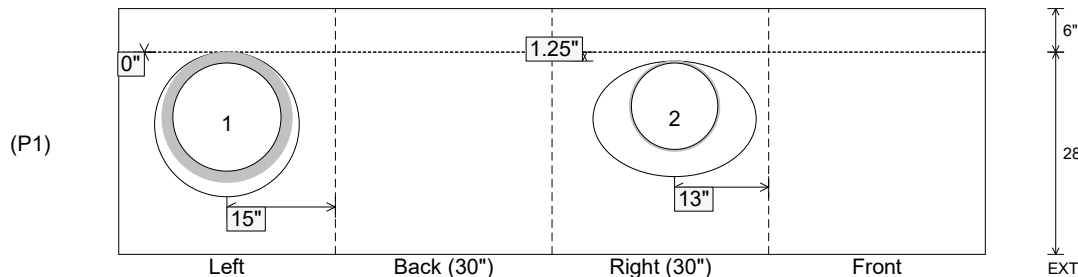
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (")	Offset
Invert 1	464.89'	270°	21"	15" ADS N-12	18"	Hole 20	20"	20"	0"	0"
Invert 2	464.89'	135°	25"	12" PVC SDR26	12.5"	Hole 16	16"	22.627"	1.25"	-12"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 6"  
 Floor Height: 6"

Height (Int): 28"  
 Height (Ext): 34"

Weight (Net): 2617 lb  
 Volume (Net): 0.67cu.yd

Job Name: 25-3600 Signet FCU  
 Job Location: Paducah, KY  
 Contractor: Ainsworth Land Development, LLC

Plant: Beaver Dam  
 5/8/2026 8:06:20 AM

Tech: S. Felletter  
 PC: T. Lewis



**Structure ID: DB3**

**P1 BX2424-08BAVF**

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

- P2) 24" x 24" - CB FLAT TOP 8"W (HOE KY-215 F&G) F/F - 8"  
 P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 31"  
 1) This Structure Includes a Cast-in Item  
 1) CASTING - HOE KY-215 F/BEEHIVE (DBI 15)  
 1) 24" x 24" - Conseal CS-102 1.00"  
 2) Hole - 20"

770 lb  
 3316 lb  
 0 lb  
 317 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 4403 lb

- Structure Notes:**  
 1. KYTC DBI TYPE 15 / ASTM C913 SPECIFICATIONS  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO INVERT CHANNEL.  
 4. DBI-15 F/G CAST INTO TOP SLAB (HOE KY-215 F/G BEEHIVE).

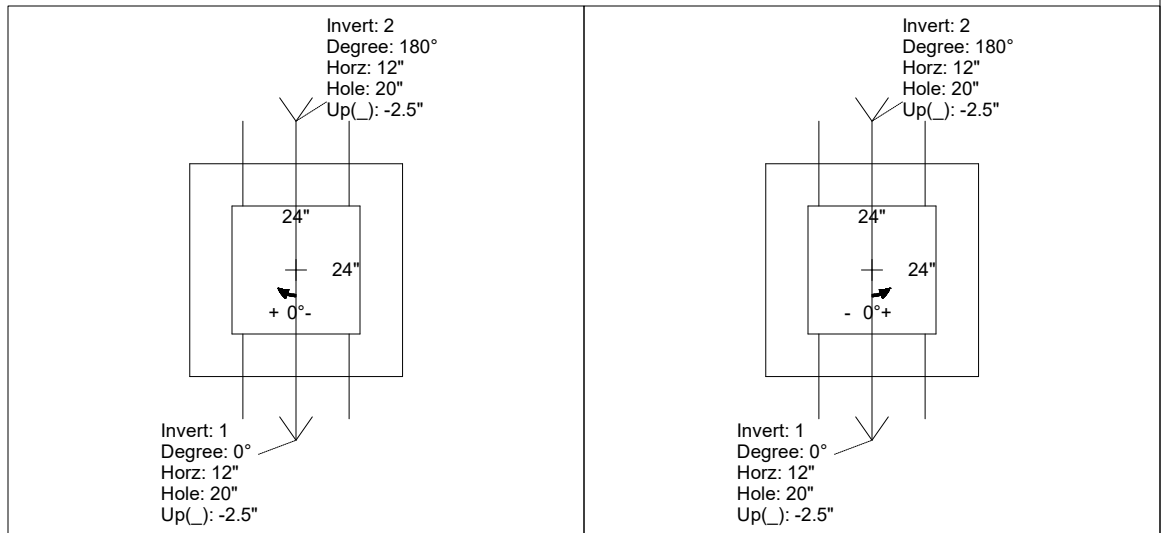
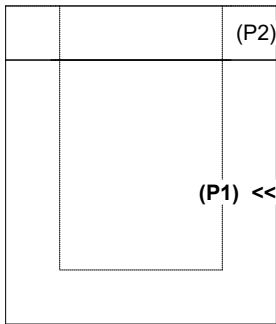
- REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 337.6' Rim to Invert: 3.3' Slack: 0.6" Sump: 0" Step Position:

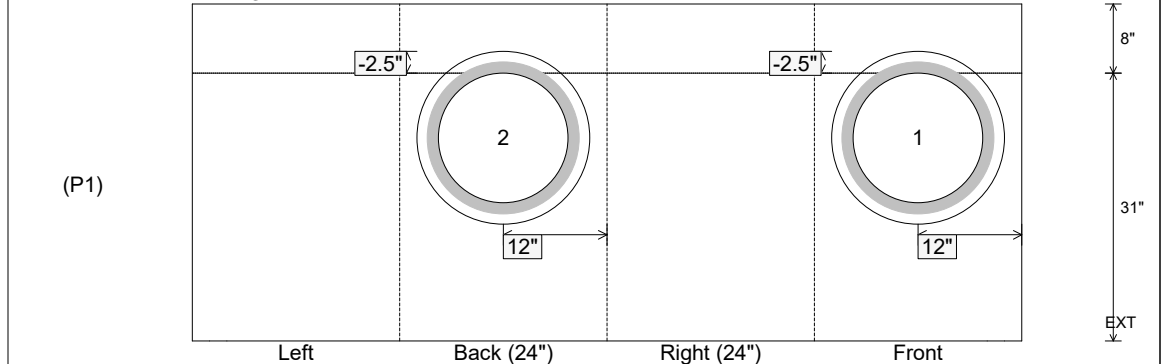
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	334.3'	0°	20"	15" HDPE	17.6"	Hole 20	20"	20"	-2.5"	0"
Invert 2	334.3'	180°	20"	15" HDPE	17.6"	Hole 20	20"	20"	-2.5"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 8"  
 Floor Height: 8"

Height (Int): 31"  
 Height (Ext): 39"

Weight (Net): 3316 lb  
 Volume (Net): 0.85cu.yd

Job Name: 26-2074 - Christian Co. Ball Field Line K Job Location: Hopkinsville, KY Contractor: Herring Construction, Inc.	Plant: 100 5/8/2026 6:13:37 AM	Tech: J. Horsley PC: E. Bradley	
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**Structure ID: KST4 ST-DBI**

**P1 BX2424-08BAVF**

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

P3) 24" x 24" - CASTING (cast in) - 0"	0 lb
P2) 24" x 24" - BX FLAT LID 8inW w/HOE 280T CAST IN F/F - 8"	885 lb
P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 29"	3395 lb
1) This Structure Includes a Cast-in Item - HOE 280T Frame (Supplied by iCast)	0 lb
1) CASTING - HOE 280T F/G	182 lb
2) 24" x 24" - Conseal CS-102 1.00"	0 lb
1) Hole - 18	0 lb
<b>Structure Total:</b>	<b>4462 lb</b>

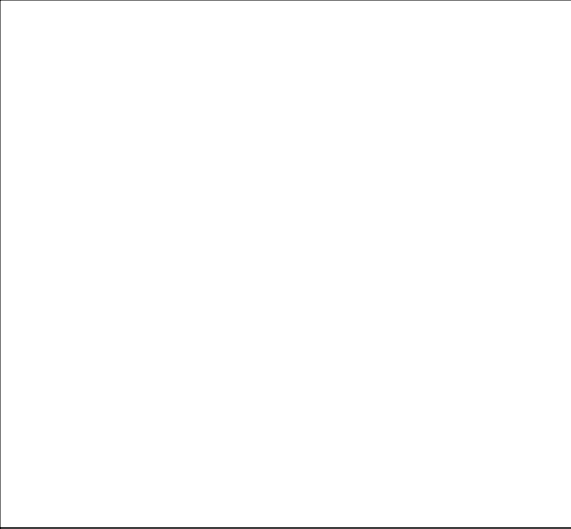
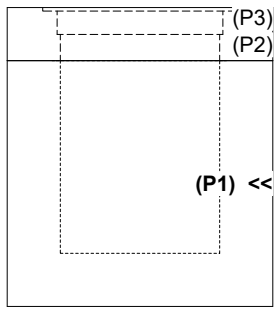
- Structure Notes:**
- PER ASTM C-913 SPECIFICATIONS
  - CONCRETE: 4,000 PSI AT 28 DAYS
  - REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  - NO STORM INVERT
  - NO STEPS
  - HOE 280T FRAME & GRATE SUPPLIED BY ICAS - FRAME TO BE CAST INTO FLAT LID FLANGE SIDE UP

Rim: 542.8'    Rim to Invert: 3'    Slack: 0.25"    Sump: 1.25"    Step Position:

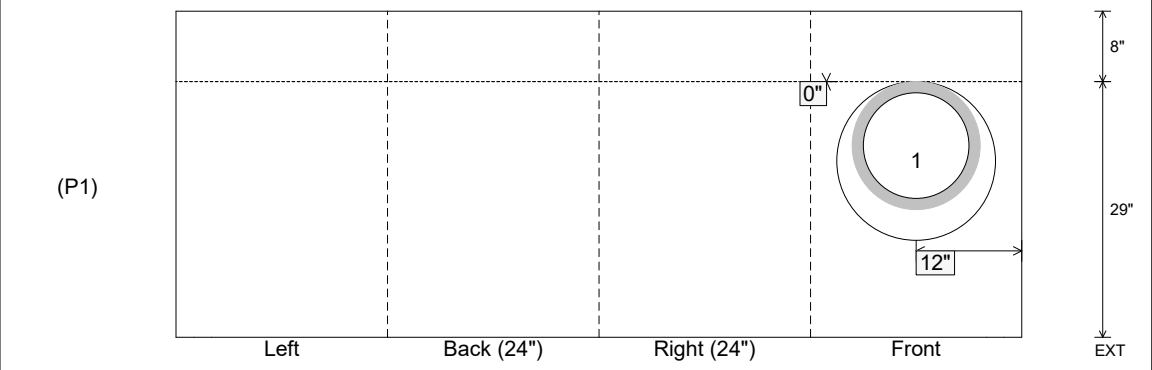
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	539.8'	0°	20"	12" HDPE	14.5"	Hole 18	18"	18"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

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): 29" Height (Ext): 37"	Weight (Net): 3395 lb Volume (Net): 0.87cu.yd
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Job Name: 25-4733 - The Paddock  
 Job Location: Springfield, KY  
 Contractor: Core & Main LP (Lou)

Plant: 100  
 5/14/2026 1:09:02 PM

Tech: Jared - F  
 PC: T. Lewis



**Structure ID: CI-D3**

**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 - 34"
- 1) CASTING - HOE 525 SET FLAT GRATE (F/G/H)
- 1) 24" x 36" - Conseal CS-102 1.00"
- 1) Hole - 20

0 lb  
 4641 lb  
 442 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 5083 lb

**Structure Notes:**  
 1. PER ASTM C913 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO STEPS AND NO INVERT CHANNEL.  
 4. CASTING BY ICAST (HOE 525 SET FLAT GRATE (F/G/H)).

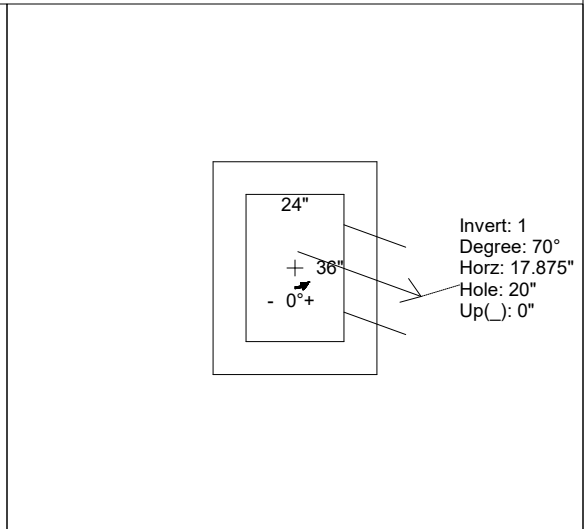
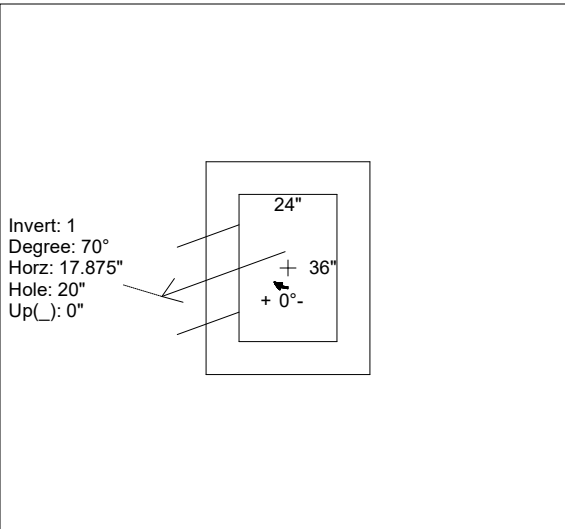
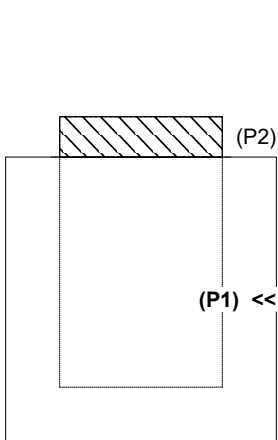
REINFORCING PER ASTM A615 (GRADE 60).  
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 884.95' Rim to Invert: 3.39' Slack: 1.93' Sump: 1.25' Step Position:

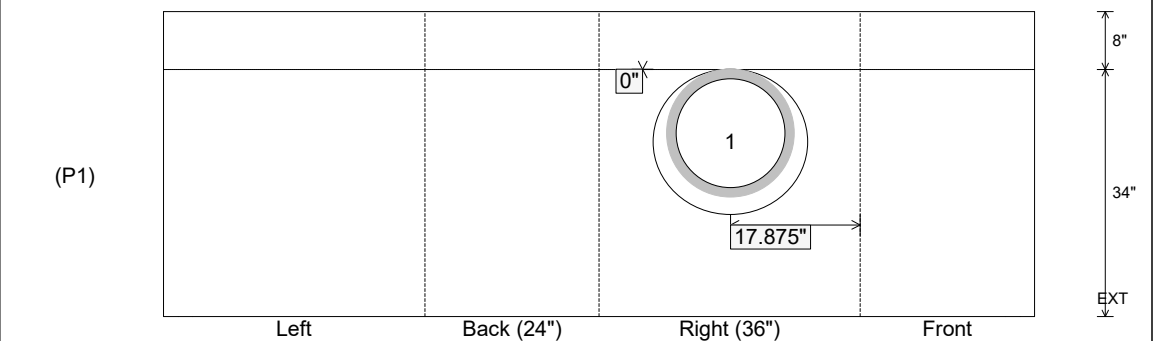
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	881.56'	70°	23"	15" HDPE	17.6"	Hole 20	20"	21.284"	0"	4"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 8"  
 Floor Height: 8"

Height (Int): 34"  
 Height (Ext): 42"

Weight (Net): 4641 lb  
 Volume (Net): 1.18cu.yd

Job Name: 25-4733 - The Paddock	Plant: 100	Tech: Jared - F	
Job Location: Springfield, KY	5/14/2026 8:16:01 PM	PC: T. Lewis	
Contractor: Core & Main LP (Lou)			

**Structure ID: OCS-B1**

**P1 BX3636-08BAVF**

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

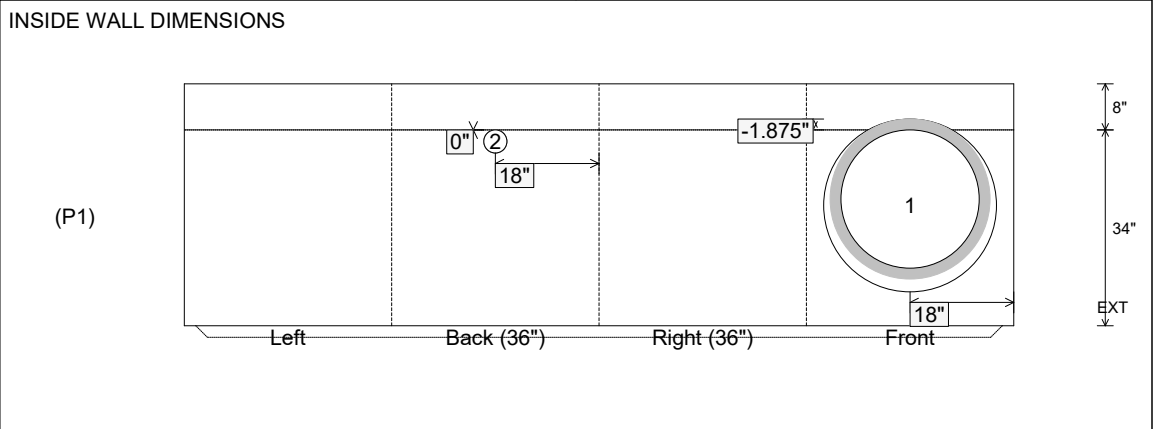
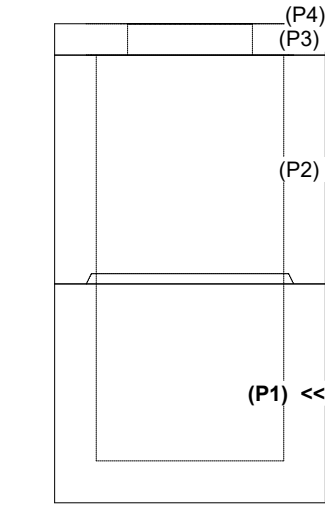
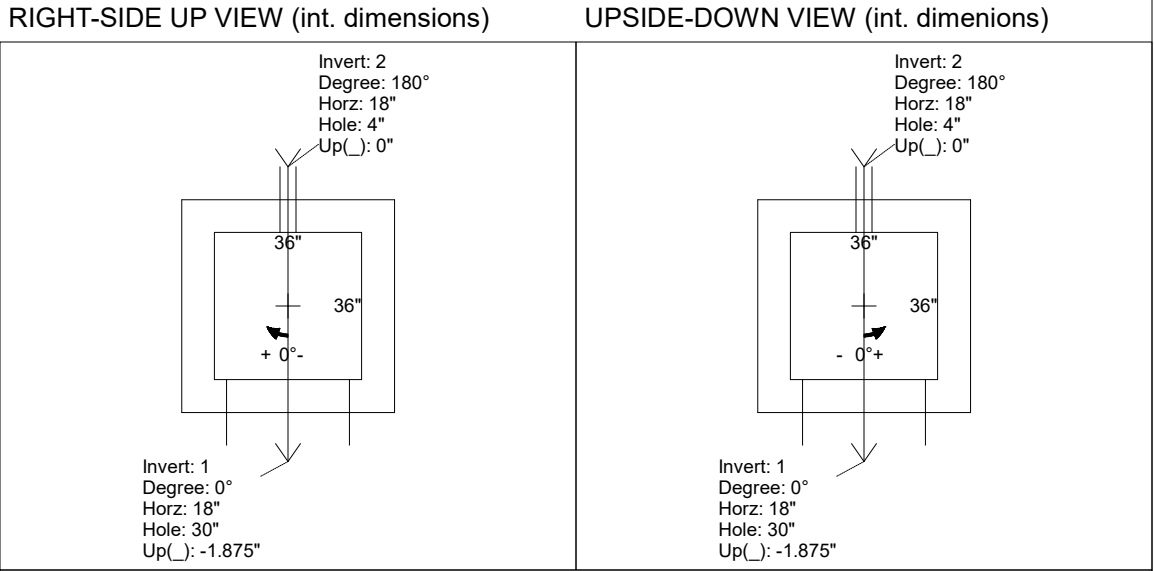
P4) 24" x 24" - CASTING HEIGHT - 0"	0 lb
P3) 36" x 36" - BX FLAT LID 8inW w/HOE 280T CAST IN F/F - 6"	1023 lb
P2) 36" x 36" - BOX RISER 8inW, Variable Ht F/G - 44"	5005 lb
P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 34"	5349 lb
1) CASTING - HOE 280T F/G	182 lb
2) 36" x 36" - Conseal CS-102 1.00"	0 lb
1) 24" x 24" - Conseal CS-102 1.00"	0 lb
1) Hole - 30	0 lb
1) Orifice - 4"	0 lb
1) Weir n/n - 12"x30"	0 lb
<b>Structure Total:</b>	<b>11560 lb</b>

**Structure Notes:**  
 1. PER ASTM C913 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO STEPS AND NO INVERT CHANNEL.  
 4. CASTING BY ICAST (HOE 280T F/G-CAST-IN, FLANGE UP).

REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 881'	Rim to Invert: 7'	Slack: 0"	Sump: 0"	Step Position:
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Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	874'	0°	26"	24" HDPE	27.8"	Hole 30	30"	30"	-1.875"	0"
Invert 2	874'	180°	26"	4" Orifice	4"	Orifice 4"	4"	4"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 34" Height (Ext): 42"	Weight (Net): 5349 lb Volume (Net): 1.37cu.yd
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Job Name: 25-4733 - The Paddock  
 Job Location: Springfield, KY  
 Contractor: Core & Main LP (Lou)

Plant: 100

Tech: Jared - F

5/14/2026 1:08:56 PM

PC: T. Lewis



**Structure ID: CI-A2**

**P1 BX2436-08BVF**

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

- P3) 24" x 36" - CASTING HEIGHT - 6"
- P2) 24" x 36" - BOX RISER 8inW F/G - 24"
- P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 60"
- 1) CASTING - HOE 525 SET FLAT GRATE (F/G/H)
- 2) 24" x 36" - Conseal CS-102 1.00"
- 1) Hole - 30
- 1) Hole - 24

0 lb  
 2449 lb  
 6816 lb  
 442 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 9707 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO STEPS AND NO INVERT CHANNEL.
4. CASTING BY ICAST (HOE 525 SET FLAT GRATE (F/G/H)).

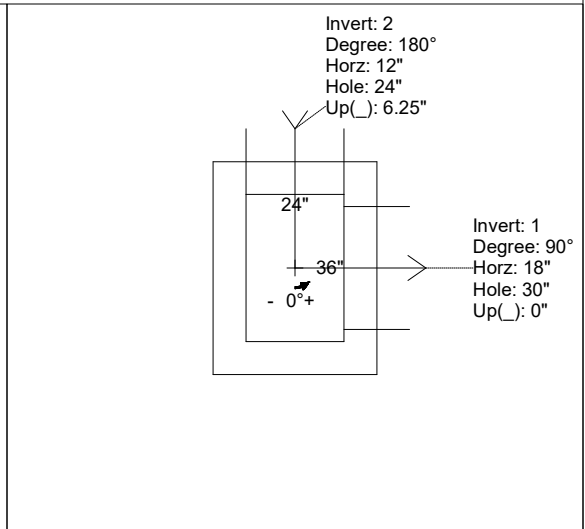
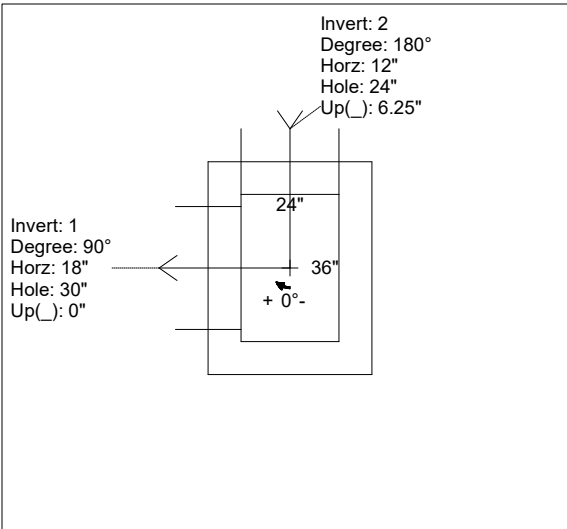
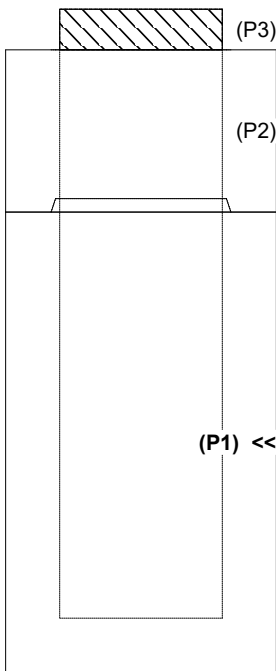
REINFORCING PER ASTM A615 (GRADE 60).  
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 887.42' Rim to Invert: 7.46' Slack: 1.395" Sump: 1.875" Step Position:

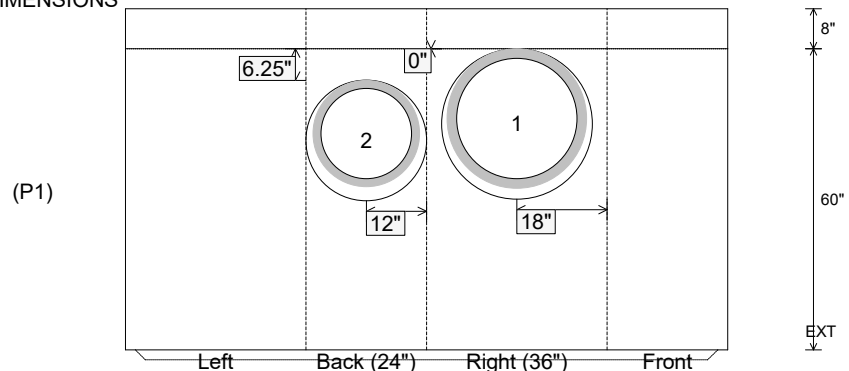
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	879.96'	90°	26"	24" HDPE	27.8"	Hole 30	30"	30"	0"	0"
Invert 2	880.46'	180°	20"	18" HDPE	21.2"	Hole 24	24"	24"	6.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 8"  
 Floor Height: 8"

Height (Int): 60"  
 Height (Ext): 68"

Weight (Net): 6816 lb  
 Volume (Net): 1.74cu.yd

Job Name: 25-4299 - Seneca High School	Plant: 100	Tech: J. Horsley	
Job Location: Louisville, KY	2/13/2026 10:05:01 AM	PC: J. Jarvis	
Contractor: Dan Cristiani Excavating Co. Inc.			

**Structure ID: A26**

**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 - 17"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 1) Hole - 16

0 lb  
 2996 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 2996 lb

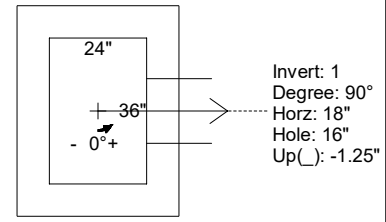
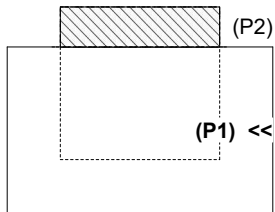
- Structure Notes:
1. PER LOUISVILLE MSD / ASTM C-913 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  4. NO STORM INVERT
  5. NO STEPS
  6. HOE 470 FRAME, GRATE, & CURB HOOD SUPPLIED BY OTHERS

Rim: 485.2'    Rim to Invert: 1.95'    Slack: 0.4"    Sump: 0"    Step Position:

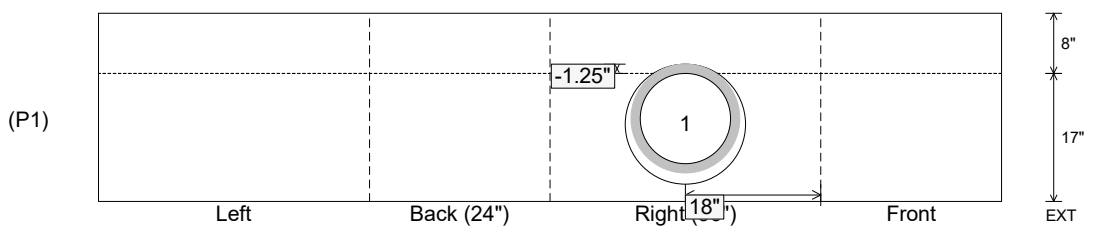
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	483.25'	90°	26"	12" HDPE	14.5"	Hole 16	16"	16"	-1.25"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 17" Height (Ext): 25"	Weight (Net): 2996 lb Volume (Net): 0.76cu.yd
----------------------------------	-------------------------------	--	--	--

Job Name: 26-1228 - L&N Federal Credit Union  
 Job Location: Louisville, KY 40243  
 Contractor: H & W Landworks

Plant: 100

5/6/2026 12:05:18 PM

Tech: Jared - A

PC: T. Lewis



**Structure ID: S-2-3 ST-MH**

**P1 MH048BA24**

**MH BASE T/n**

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P1) 48" - MH BASE T/n - 24"
- 1) CASTING - HOE MC-420 F/C Storm
- 1) 48" - Conseal CS-102 1.00"
- 2) Hole - 18

0 lb  
 1561 lb  
 2789 lb  
 340 lb  
 0 lb  
 0 lb  
 -----  
 4690 lb

Structure Total: 4690 lb

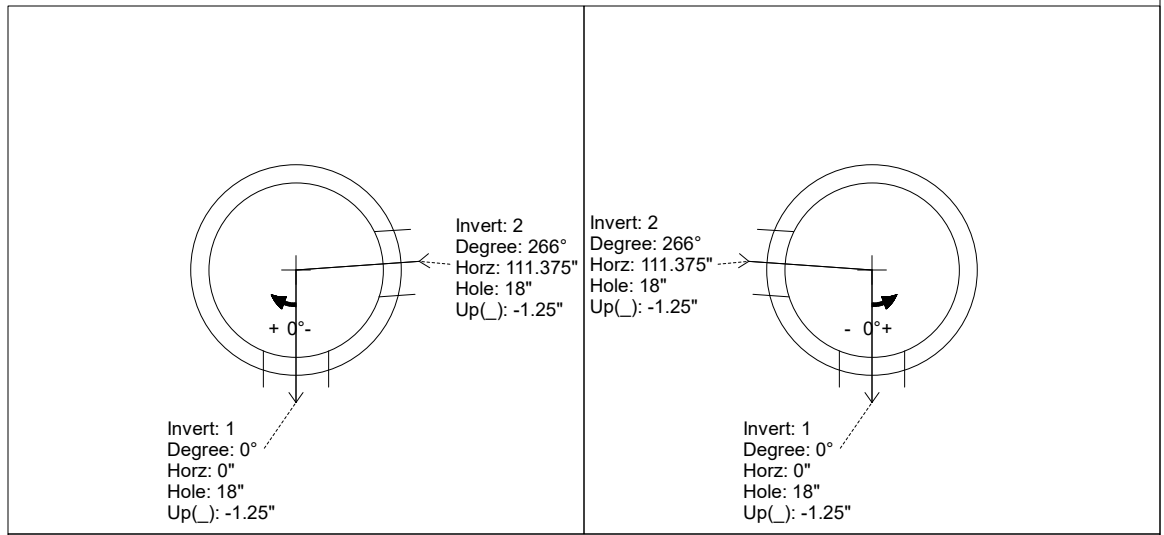
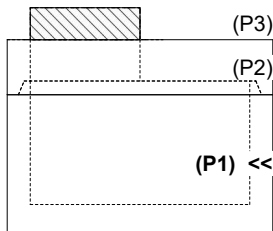
- Structure Notes:**
1. PER LOUISVILLE MSD / ASTM C-478 SPECS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT: PER ASTM A615
  4. NO STORM INVERT
  5. NO STEPS
  6. HOE MC-420 FRAME & COVER "STORM MSD" SUPPLIED BY ICAST

Rim: 746.24' Rim to Invert: 3.76' Slack: 2.12" Sump: 0" Step Position:

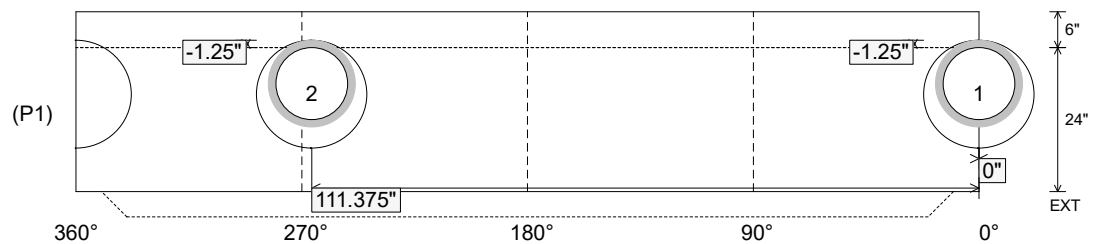
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	742.48'	0°	0"	12" ADS N-12	14.5"	Hole 18	18"	18.451"	-1.25"	0"
Invert 2	742.48'	266°	134.625"	12" ADS N-12	14.5"	Hole 18	18"	18.451"	-1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

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

Weight (Net): 2789 lb  
 Volume (Net): 0.71cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:22:22 PM

PC: Celina Goff



**Structure ID: 2301579**

**P1 MH048BA24**

**MH BASE (08"F) T/n**

- P5) 24" - CASTING HEIGHT - 7"
- P4) 48" - CON CONE w/24" HOLE F/G - 24"
- P3) 48" - MH RISER T/G - 48"
- P2) 48" - MH RISER T/G - 60"
- P1) 48" - MH BASE (08"F) T/n - 24"
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 3) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 12) MH Step ML-10-TDS-NCR - 10"

0 lb  
 2252 lb  
 3353 lb  
 4192 lb  
 3354 lb  
 1440 lb  
 0 lb  
 16 lb  
 0 lb  
 -----  
 Structure Total: 14607 lb

Structure Notes:

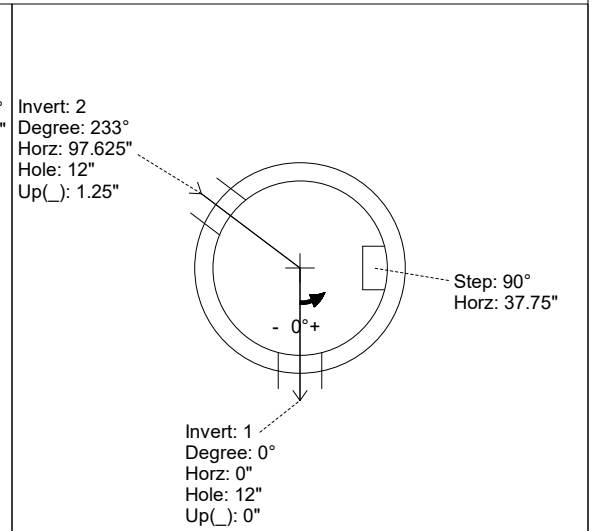
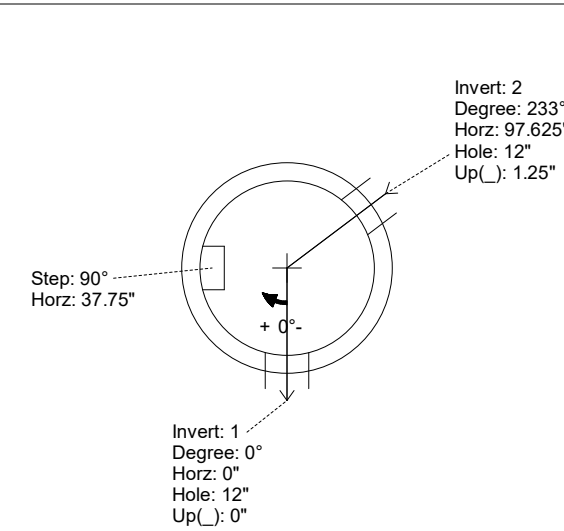
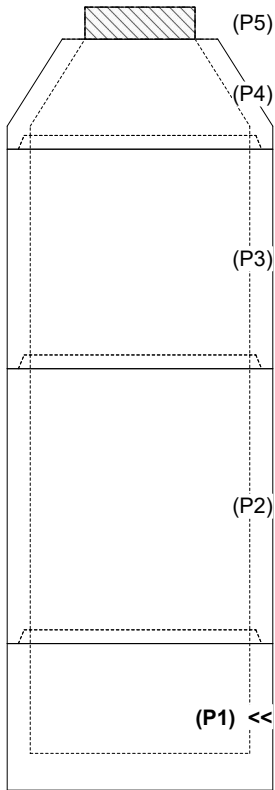
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT:
  - WALLS: PER ASTM A615 - DOUBLE MAT
  - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. INVERT CHANNEL REQUIRED
5. STEPS AT 90 DEGREES
6. 7" CASTING SUPPLIED BY OTHERS

Rim: 791' Rim to Invert: 13.63' Slack: 2.56" Sump: 2" Step Position: 90°

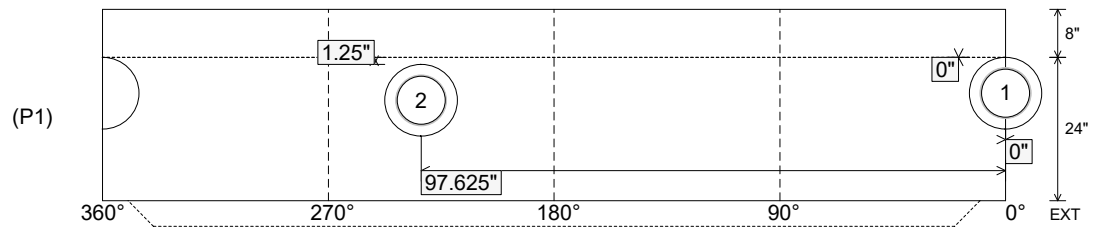
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	777.37'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	777.47'	233°	117.875"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 8"

Height (Int): 24"  
 Height (Ext): 32"

Weight (Net): 3354 lb  
 Volume (Net): 0.86cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:22:22 PM

PC: Celina Goff



**Structure ID: 2301579**

**P1 MH048BA24**

**MH BASE (08"F) T/n**

- P5) 24" - CASTING HEIGHT - 7"
- P4) 48" - CON CONE w/24" HOLE F/G - 24"
- P3) 48" - MH RISER T/G - 48"
- P2) 48" - MH RISER T/G - 60"
- P1) 48" - MH BASE (08"F) T/n - 24"
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 3) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 12) MH Step ML-10-TDS-NCR - 10"

0 lb  
 2252 lb  
 3353 lb  
 4192 lb  
 3354 lb  
 1440 lb  
 0 lb  
 16 lb  
 0 lb  
 -----  
 Structure Total: 14607 lb

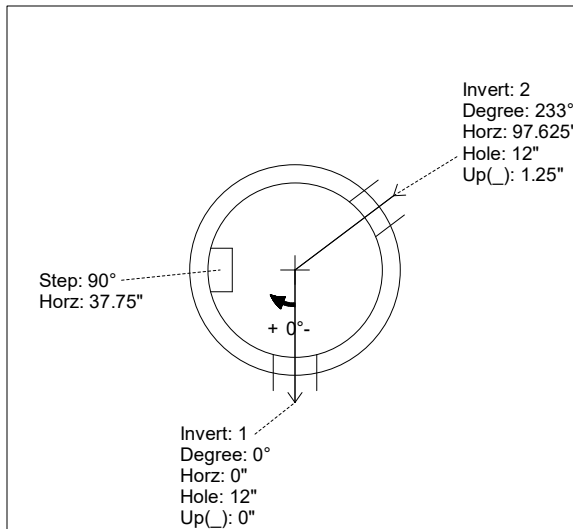
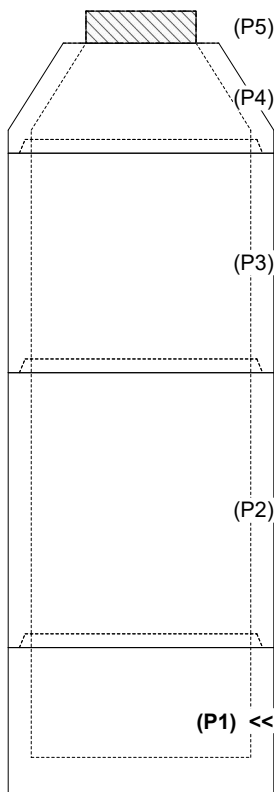
- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT:
    - WALLS: PER ASTM A615 - DOUBLE MAT
    - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  4. INVERT CHANNEL REQUIRED
  5. STEPS AT 90 DEGREES
  6. 7" CASTING SUPPLIED BY OTHERS

Rim: 791' Rim to Invert: 13.63' Slack: 2.56" Sump: 2" Step Position: 90°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	777.37'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	777.47'	233°	117.875"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

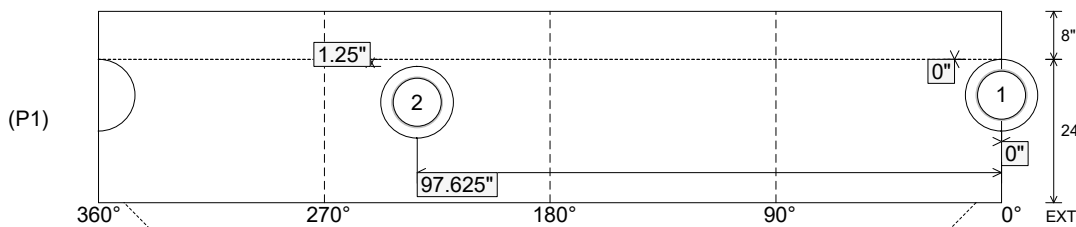
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INVERT CHANNEL  
DRAWING

INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 8"

Height (Int): 24"  
 Height (Ext): 32"

Weight (Net): 3354 lb  
 Volume (Net): 0.86cu.yd

**Structure ID: E1**

**P1 BX3660-08BAVF**

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

- |  |         |  |
|--|---------|--|
| P3) 24" x 24" - CASTING HEIGHT - 4"                        | 0 lb    |  |
| P2) 36" x 60" - CB FLAT TOP 8"W w/24"x24" HOLE F/F - 6"    | 1691 lb |  |
| P1) 36" x 60" - BOX BASE 8inW, 8inF, Variable Ht F/n - 27" | 5624 lb |  |
| 1) SECONDARY POUR  | 0 lb    |  |
| 1) 36" x 60" - Conseal CS-102 1.00"                        | 0 lb    |  |
| 1) 24" x 24" - Conseal CS-102 1.00"                        | 0 lb    |  |
| 1) Hole - 30   | 0 lb    |  |
| 1) Hole - 16   | 0 lb    |  |
| 1) Hole - 20   | 0 lb    |  |
| Structure Total:   | 7315 lb |  |

- Structure Notes:**
1. PER LOUISVILLE MSD / 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
  7. WET STICK 18" X 18" #5 L-BARS SPACED @ 12" C.C. (GRADE 60) OUT OF FLOOR FOR WALL POUR TIE-IN (SEE L-BAR DETAIL)
  8. LIFTERS: 4 EA. 4CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED IN FLOOR, MIN. 16" FROM EDGE OF SLAB

**FIRST POUR (FLOOR): 2,653 LBS**

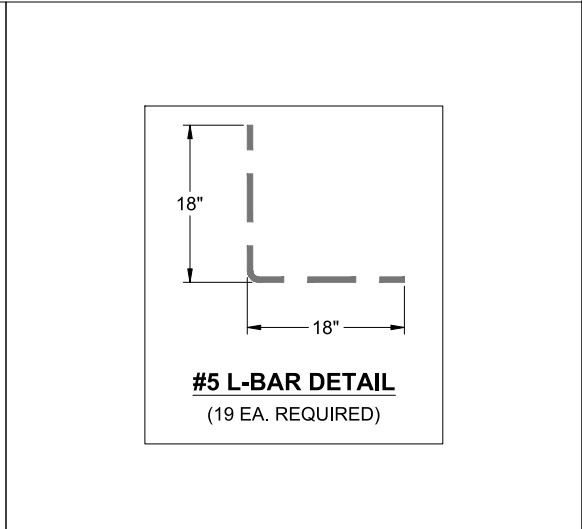
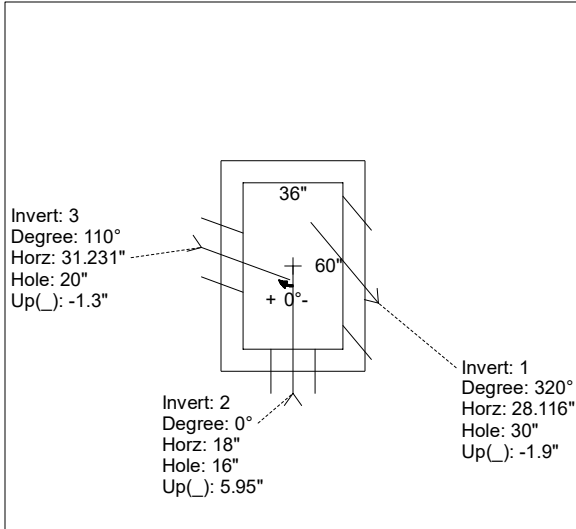
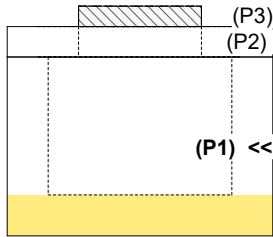
**SECOND POUR (WALLS): 2,971 LBS**

Rim: 486.6'    Rim to Invert: 3.1'    Slack: 0.2"    Sump: 0"    Step Position:

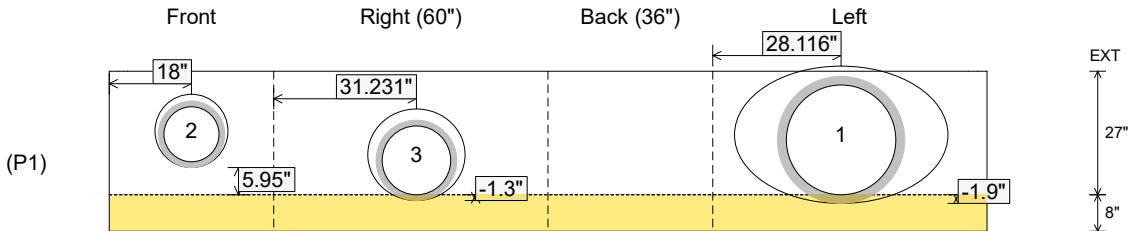
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	483.5'	320°	45.65"	24" HDPE	27.8"	Hole 30	30"	46.672"	-1.9"	-15"
Invert 2	484.1'	0°	26"	12" HDPE	14.5"	Hole 16	16"	16"	5.95"	0"
Invert 3	483.5'	110°	42.142"	15" HDPE	17.6"	Hole 20	20"	21.284"	-1.3"	-5"
Invert 4										
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: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 27" Height (Ext): 35"	Weight (Net): 5624 lb Volume (Net): 1.44cu.yd
----------------------------------	-------------------------------	--	--	--

Job Name: 25-4299 - Seneca High School  
 Job Location: Louisville, KY  
 Contractor: Dan Cristiani Excavating Co. Inc.

Plant: 100

2/16/2026 10:16:31 AM

Tech: J. Horsley

PC: J. Jarvis



**Structure ID: E1**

**P1 BX3660-08BAVF**

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

- P3) 24" x 24" - CASTING HEIGHT - 4"
- P2) 36" x 60" - CB FLAT TOP 8"W w/24"x24" HOLE F/F - 6"
- P1) 36" x 60" - BOX BASE 8inW, 8inF, Variable Ht F/n - 27"
- 1) SECONDARY POUR
- 1) 36" x 60" - Conseal CS-102 1.00"
- 1) 24" x 24" - Conseal CS-102 1.00"
- 1) Hole - 30
- 1) Hole - 16
- 1) Hole - 20

0 lb  
 1691 lb  
 5624 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 7315 lb

- Structure Notes:
1. PER LOUISVILLE MSD / 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

**FIRST POUR (FLOOR): 2,653 LBS**

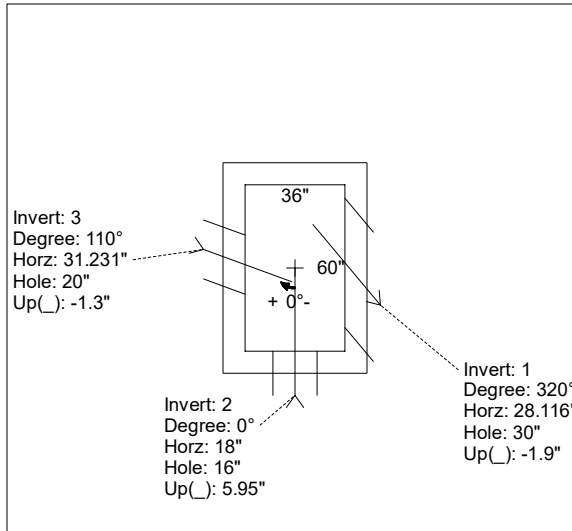
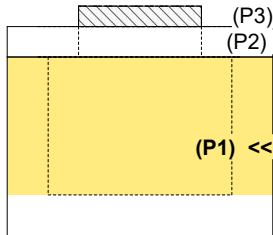
**SECOND POUR (WALLS): 2,971 LBS**

Rim: 486.6' Rim to Invert: 3.1' Slack: 0.2" Sump: 0" Step Position:

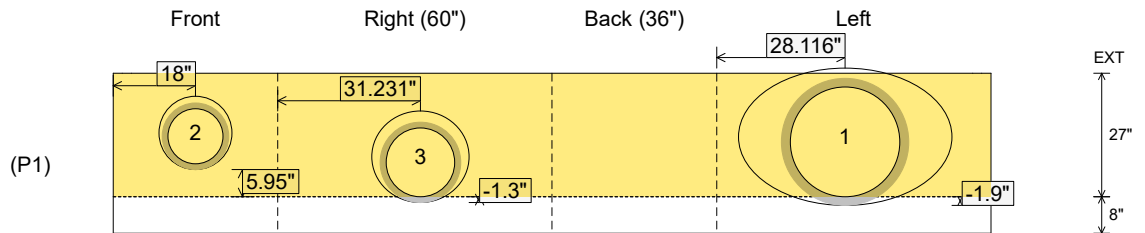
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	483.5'	320°	45.65"	24" HDPE	27.8"	Hole 30	30"	46.672"	-1.9"	-15"
Invert 2	484.1'	0°	26"	12" HDPE	14.5"	Hole 16	16"	16"	5.95"	0"
Invert 3	483.5'	110°	42.142"	15" HDPE	17.6"	Hole 20	20"	21.284"	-1.3"	-5"
Invert 4										
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): 27"  
 Height (Ext): 35"

Weight (Net): 5624 lb  
 Volume (Net): 1.44cu.yd

Job Name: 25-4299 - Seneca High School  
 Job Location: Louisville, KY  
 Contractor: Dan Cristiani Excavating Co. Inc.

Plant: 100  
 2/16/2026 10:16:57 AM

Tech: J. Horsley  
 PC: J. Jarvis



**Structure ID: E1**

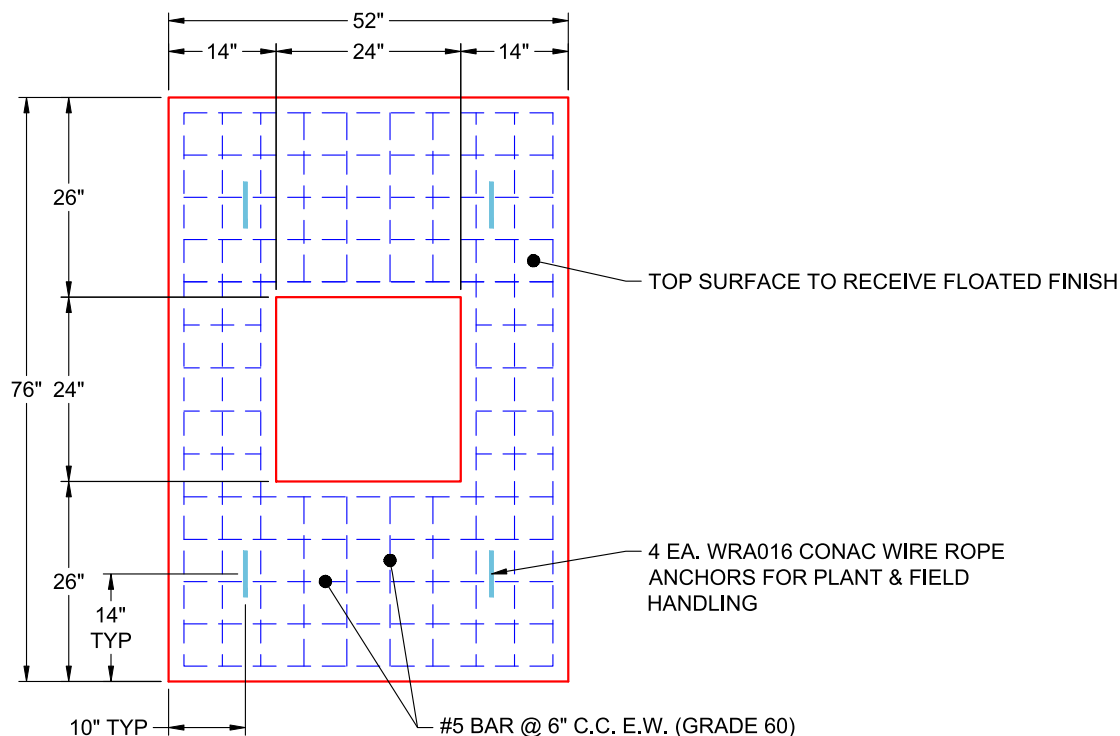
**P2 BX036060-08LD08-S**

**CB FLAT TOP 8"W w/24"x24" HOLE F/F**

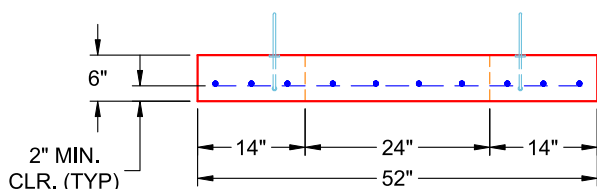
- P3) 24" x 24" - CASTING HEIGHT - 4"
- P2) 36" x 60" - CB FLAT TOP 8"W w/24"x24" HOLE F/F - 6"
- P1) 36" x 60" - BOX BASE 8inW, 8inF, Variable Ht F/n - 27"
- 1) SECONDARY POUR
- 1) 36" x 60" - Conseal CS-102 1.00"
- 1) 24" x 24" - Conseal CS-102 1.00"
- 1) Hole - 30
- 1) Hole - 16
- 1) Hole - 20

0 lb  
 1691 lb  
 5624 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 7315 lb

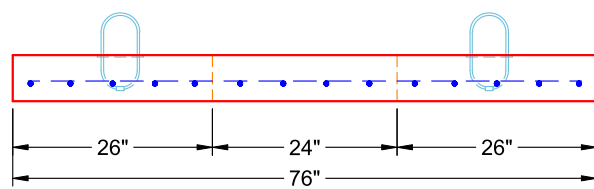
- Structure Notes:
1. PER LOUISVILLE MSD / ASTM C-913 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT: #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  4. HOE 280T FRAME & GRATE SUPPLIED BY OTHERS
  5. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
  6. TOP SURFACE TO RECEIVE FLOATED FINISH



**PLAN VIEW  
(RIGHT SIDE UP)**



**FRONT VIEW  
(RIGHT SIDE UP)**



**SIDE VIEW  
(RIGHT SIDE UP)**

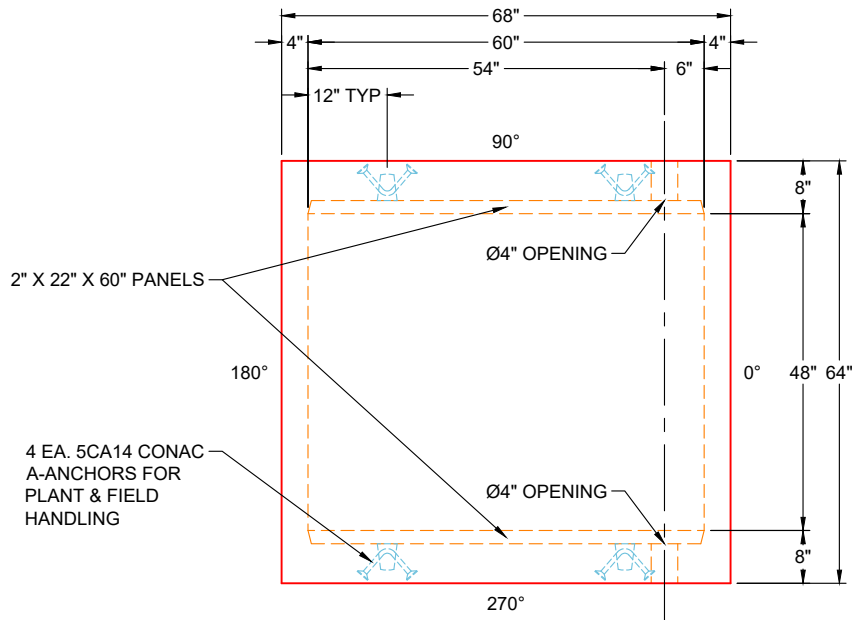
Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: Flat

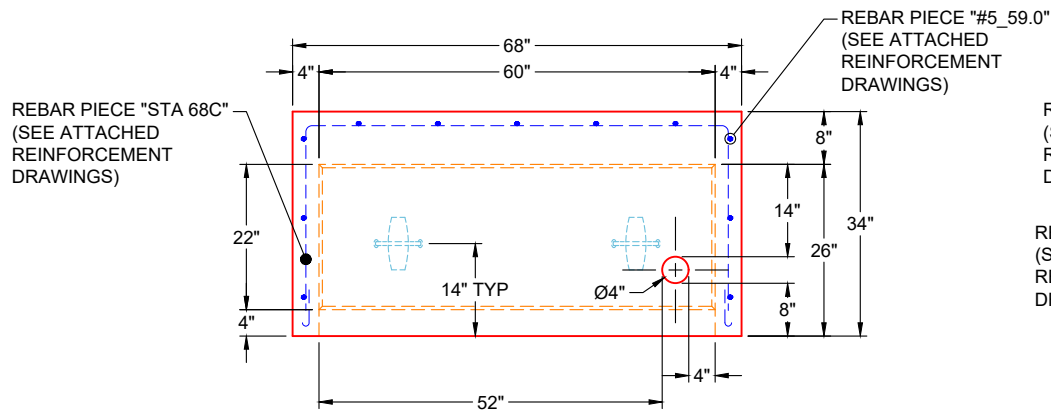
Wall Thickness: 8"

Height (Ext): 6"

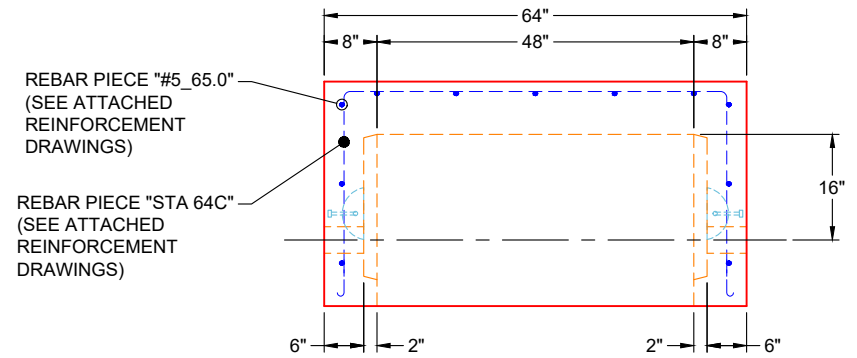
Weight (Net): 1691 lb  
 Volume (Net): 0.43cu.yd



**PLAN VIEW  
(UPSIDE DOWN)**



**FRONT VIEW  
(UPSIDE DOWN)**



**SIDE VIEW  
(UPSIDE DOWN)**

**GENERAL NOTES:**

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

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

**PRODUCTION WORK ORDER**

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

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



**QUALITY CONTROL CHECKLIST**

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

PRODUCT VIEW: UPSIDE DOWN

CUSTOMER: ENDESOL, INC.

PLANT: BEAVER DAM, KY

PROJECT: 4-23 691254775

WEIGHT: 5,890 LBS

STRUCTURE: 4-61618 2 (EFX-60 STATIONARY VAULT)

TOP SECTION JOINT: N / A

ORDER NO: 26-1618

BASE SECTION JOINT: FLAT

PE: J.H. ROSS

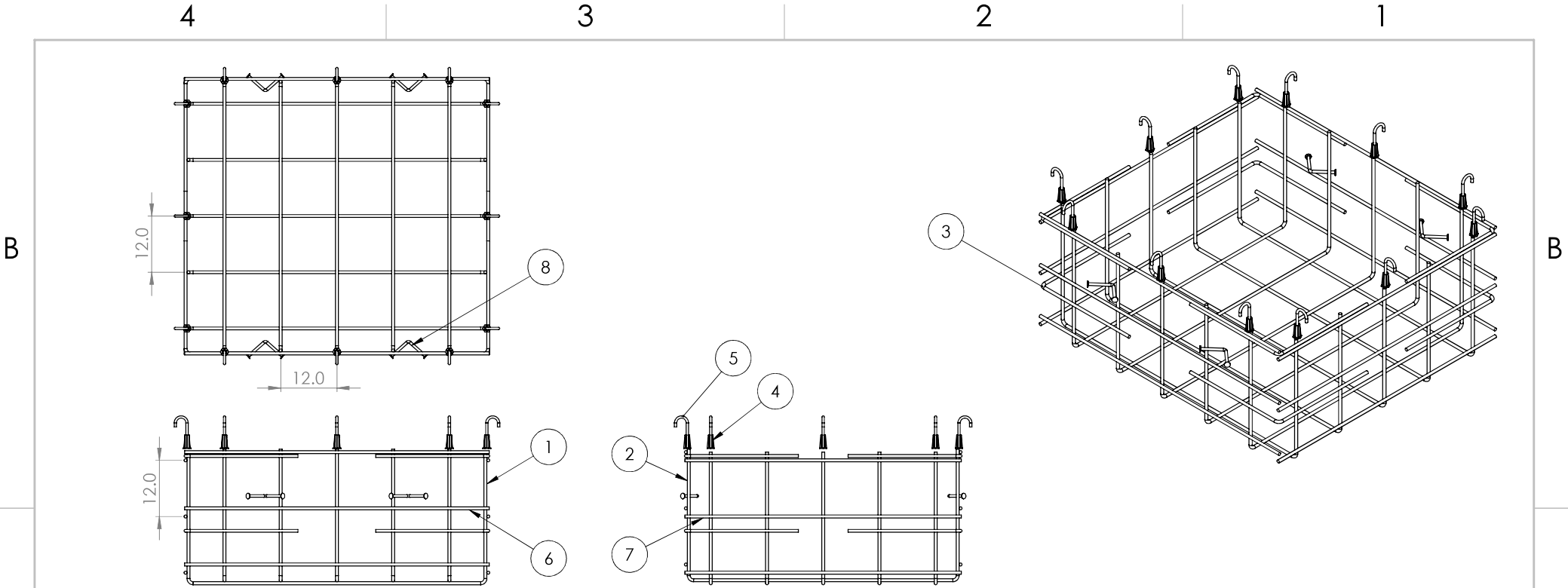
DRAWING: J. HORSLEY

QC CHECK INITIALS:

DATE: 04/24/26

SCALE: NTS

PG. 1 OF 1



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

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

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

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	<b>ENDESOL</b>
		DIMENSIONS ARE IN INCHES	DRAWN	CMJ	
		TOLERANCES:	CHECKED	JHR	3-25-16
		FRACTIONAL ± 1/8"	ENG APPR.	xxxx	xxxx
		TWO PLACE DECIMAL ±.13	MFG APPR.	xxxx	xxxx
		THREE PLACE DECIMAL ±.125	Q.A.	xxxx	xxxx
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:		
		MATERIAL	#5 REBAR		
		FINISH	MILL		
NEXT ASSY	USED ON	APPLICATION			
		DO NOT SCALE DRAWING			

TITLE:		<b>EFX-60</b> Stationary Rebar Detail
SIZE	DWG. NO.	
<b>B</b>	EFX-60 STA Rebar	REV <b>X2</b>
SCALE: 1:20	WEIGHT:	SHEET 1 OF 1

4 3 2 1

2

1

B

B



A

A



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

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

MATERIAL

FINISH

DO NOT SCALE DRAWING

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

#5 Rebar C  
 Shape

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

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

2

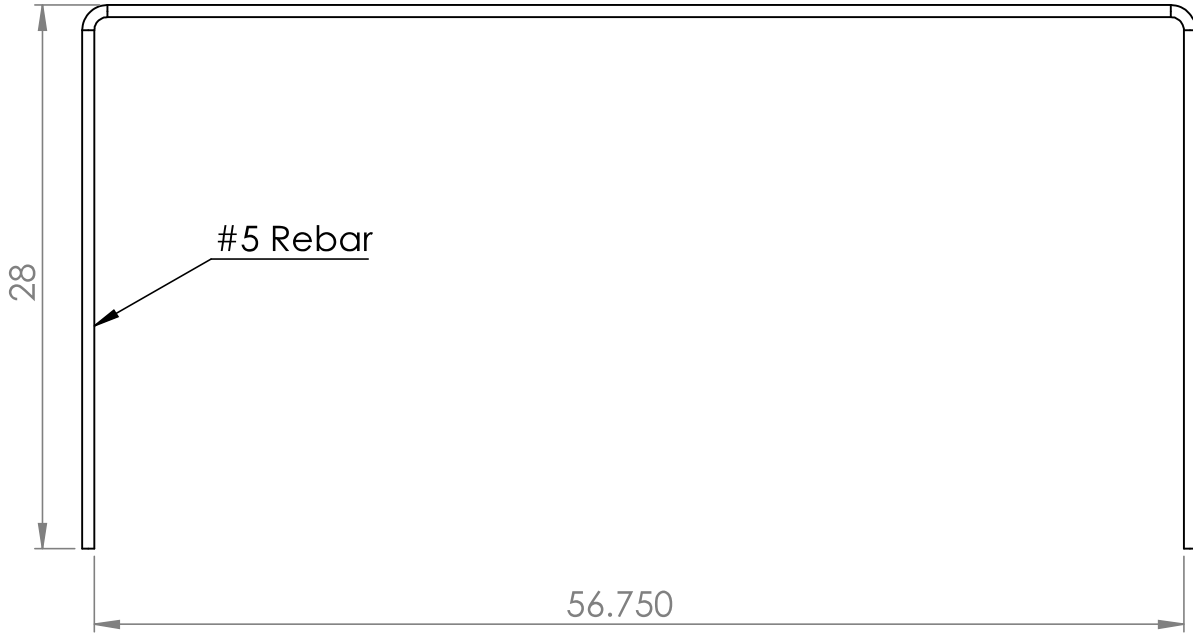
1

2

1

B

B



A

A



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

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

MATERIAL

FINISH

DO NOT SCALE DRAWING

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

#5 Rebar C  
 Shape

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

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

2

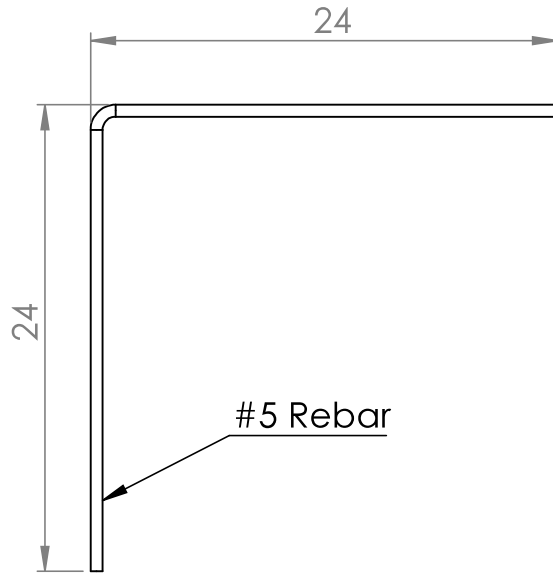
1

2

1

B

B



A

A



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

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

MATERIAL

FINISH

DO NOT SCALE DRAWING

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

#5 Rebar L 24" x  
 24"

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

SIZE <b>A</b>	DWG. NO. STA 2424L	REV.
SCALE:1:50	WEIGHT:	SHEET 1 OF 1

2

1

**Job Number:**

26-1618

**Job Name:**

4-23 691254775

**Structure:**

4-61618 2

**Note:**

Nosing Kit To Be Shipped. See Chad Jarvis.

Job Name: 24-4171 - McKinney Water District Contract 1B Phase 2  
 Job Location: Stanford, KY  
 Contractor: Frederick and May Construction

Plant: 100

5/5/2026 8:17:40 PM

Tech: Jared - F

PC: E. Bradley



**Structure ID: METER VAULT - 11**

**P1 BX4884-06BAVF-FLAT**

**BOX BASE 6inW, 6inF, Variable Ht F/n**

- P3) 36" x 60" - HATCH (CAST FLUSH) - 3"
- P2) 48" x 84" - CB FLAT TOP 6"W w/36"x60" HATCH F/F - 8"
- P1) 48" x 84" - BOX BASE 6inW, 6inF, Variable Ht F/n - 54"
- 1) HATCH (Alum.) - HALLIDAY W1S 36"x60"
- 1) 48" x 84" - Conseal CS-102 1.00" (Double)
- 1) 36" x 60" - Conseal CS-102 1.00" (Double)
- 2) Hole - 6

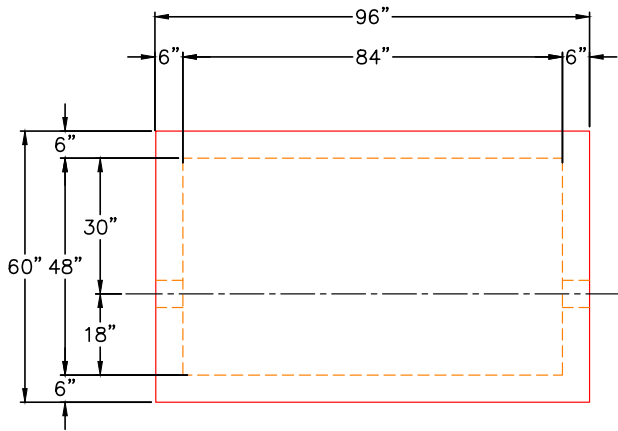
100 lb  
 2417 lb  
 10702 lb  
 116 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 13334 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO STEPS AND NO INVERT CHANNEL.
4. HATCH SUPPLIED BY ICAST (HALLIDAY W1S 36"x60").

REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 5.167' Rim to Invert: 4' Slack: 0" Sump: 14" Step Position:



**PLAN VIEW**

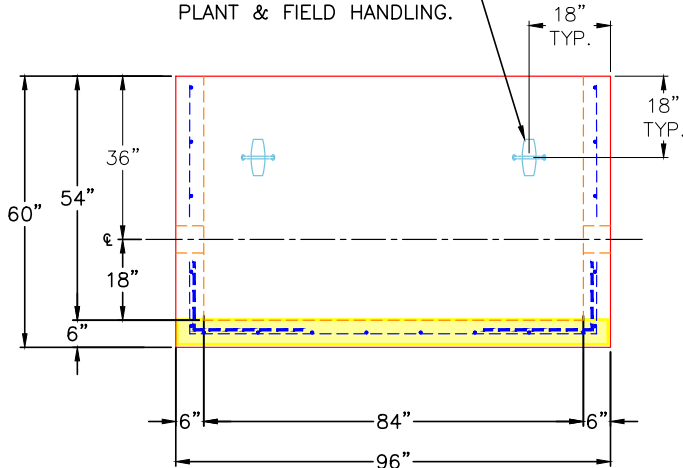
GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 12" E.W. O.C. (GRADE 60).
4. WEIGHT:  
 FIRST POUR - 2,900 LBS.  
 SECOND POUR - 7,830 LBS.  
 TOTAL - 10,730 LBS.

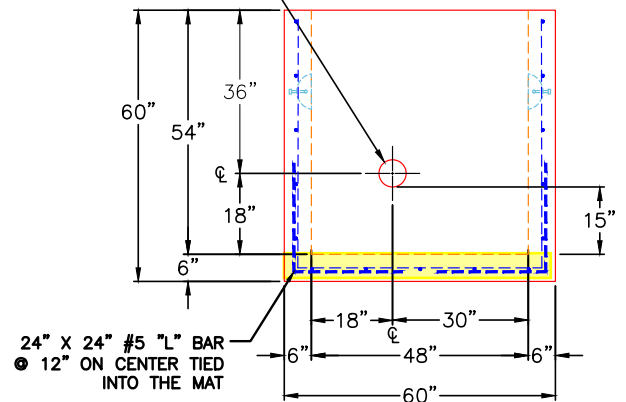
**FIRST POUR DRAWING**

4 EA. CONAC 6CA14 ANCHORS CAST IN AS SHOWN FOR PLANT & FIELD HANDLING.

6" HOLE FOR 2" DIA. PIPE UP 15" FROM TOP OF FLOOR TO BTM OF HOLE NEAR WALL AND FAR WALL



**FRONT VIEW**



**RIGHT VIEW**

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 6"  
 Floor Height: 6"

Height (Int): 54"  
 Height (Ext): 60"

Weight (Net): 10702 lb  
 Volume (Net): 2.73cu.yd

Job Name: 24-4171 - McKinney Water District Contract 1B Phase 2  
 Job Location: Stanford, KY  
 Contractor: Frederick and May Construction

Plant: 100  
 5/5/2026 8:17:40 PM

Tech: Jared - F  
 PC: E. Bradley



**Structure ID: METER VAULT - 11**

**P1 BX4884-06BAVF-FLAT**

**BOX BASE 6inW, 6inF, Variable Ht F/n**

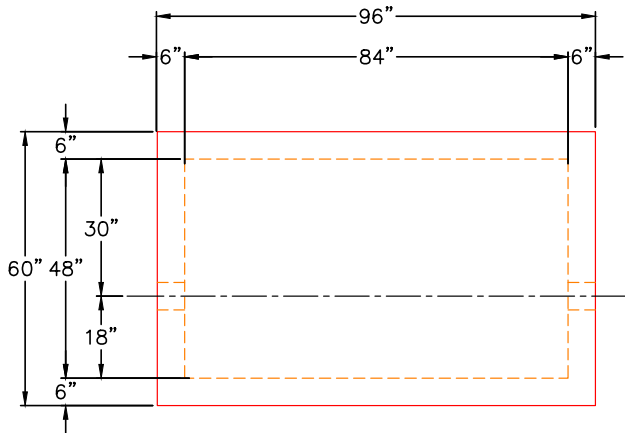
- P3) 36" x 60" - HATCH (CAST FLUSH) - 3"
- P2) 48" x 84" - CB FLAT TOP 6"W w/36"x60" HATCH F/F - 8"
- P1) 48" x 84" - BOX BASE 6inW, 6inF, Variable Ht F/n - 54"
- 1) HATCH (Alum.) - HALLIDAY W1S 36"x60"
- 1) 48" x 84" - Conseal CS-102 1.00" (Double)
- 1) 36" x 60" - Conseal CS-102 1.00" (Double)
- 2) Hole - 6

100 lb  
 2417 lb  
 10702 lb  
 116 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 13334 lb

**Structure Notes:**  
 1. PER ASTM C913 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO STEPS AND NO INVERT CHANNEL.  
 4. HATCH SUPPLIED BY ICAST (HALLIDAY W1S 36"x60").

REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 5.167' Rim to Invert: 4' Slack: 0" Sump: 14" Step Position:

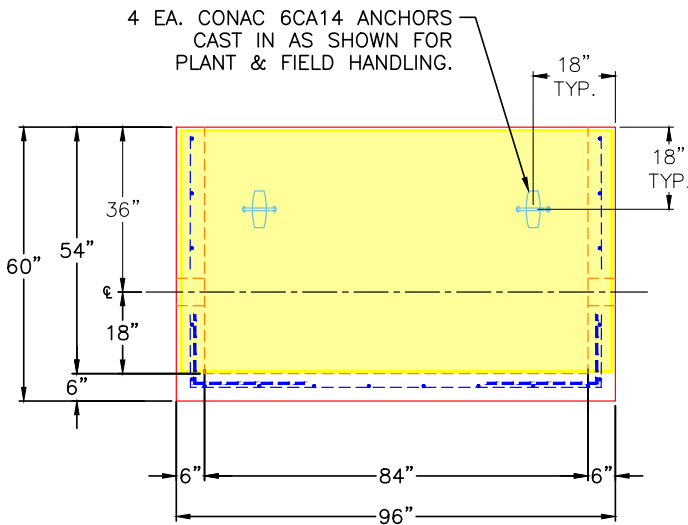


**PLAN VIEW**

**GENERAL NOTES:**

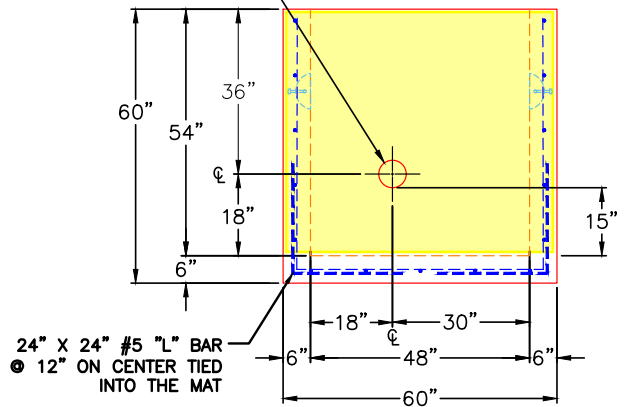
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 12" E.W. O.C. (GRADE 60).
4. WEIGHT:  
 FIRST POUR - 2,900 LBS.  
 SECOND POUR - 7,830 LBS.  
 TOTAL - 10,730 LBS.

**SECOND POUR DRAWING**



**FRONT VIEW**

6" HOLE FOR 2" DIA. PIPE  
 UP 15" FROM TOP OF  
 FLOOR TO BTM OF HOLE  
 NEAR WALL AND FAR WALL



**RIGHT VIEW**

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 6"  
 Floor Height: 6"

Height (Int): 54"  
 Height (Ext): 60"

Weight (Net): 10702 lb  
 Volume (Net): 2.73cu.yd

Job Name: 24-4171 - McKinney Water District Contract 1B Phase 2  
 Job Location: Stanford, KY  
 Contractor: Frederick and May Construction

Plant: 100

5/5/2026 8:17:54 PM

Tech: Jared - F

PC: E. Bradley



**Structure ID: METER VAULT - 11**

**P2 BX4884-06LD08-SP**

**CB FLAT TOP 6"W w/36"x60" HATCH F/F**

- P3) 36" x 60" - HATCH (CAST FLUSH) - 3"
- P2) 48" x 84" - CB FLAT TOP 6"W w/36"x60" HATCH F/F - 8"
- P1) 48" x 84" - BOX BASE 6inW, 6inF, Variable Ht F/n - 54"
- 1) HATCH (Alum.) - HALLIDAY W1S 36"x60"
- 1) 48" x 84" - Conseal CS-102 1.00" (Double)
- 1) 36" x 60" - Conseal CS-102 1.00" (Double)
- 2) Hole - 6

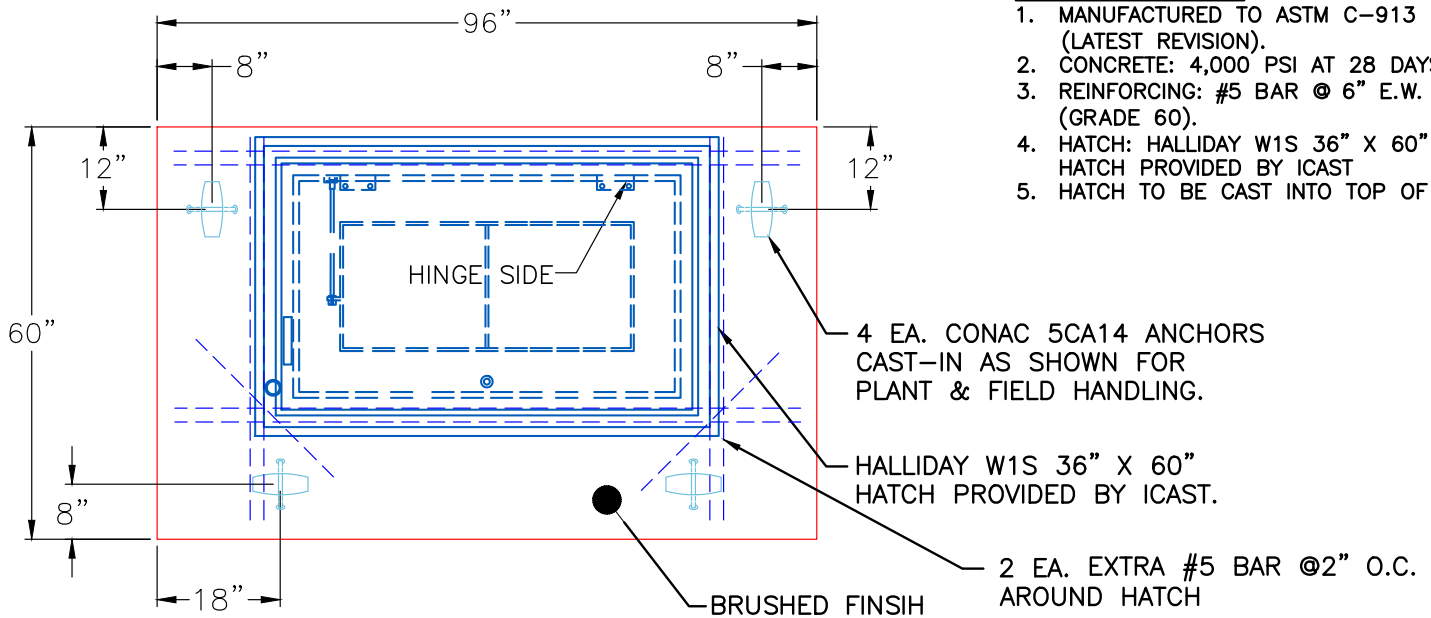
100 lb  
 2417 lb  
 10702 lb  
 116 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 13334 lb

**Structure Notes:**  
 1. PER ASTM C913 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO STEPS AND NO INVERT CHANNEL.  
 4. HATCH SUPPLIED BY ICAST (HALLIDAY W1S 36"x60").

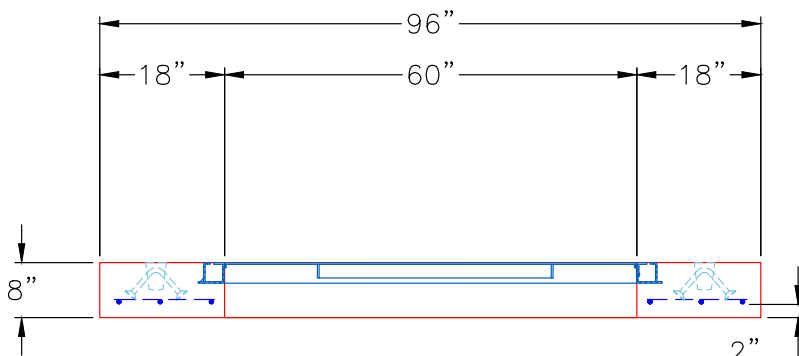
REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

**GENERAL NOTES:**

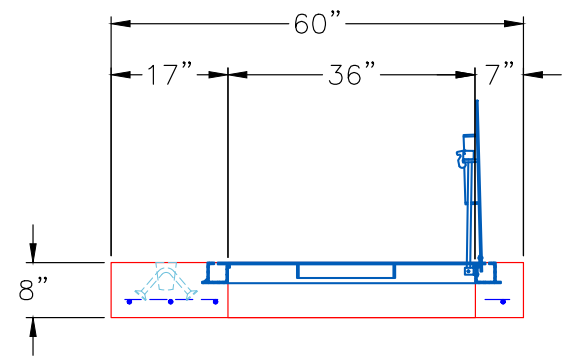
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 6" E.W. O.C. (GRADE 60).
4. HATCH: HALLIDAY W1S 36" X 60" HATCH PROVIDED BY ICAST
5. HATCH TO BE CAST INTO TOP OF LID.



**PLAN VIEW**



**FRONT VIEW**



**RIGHT VIEW**

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 8"

Weight (Net): 2417 lb  
 Volume (Net): 0.62cu.yd

Job Name: 24-4171 - McKinney Water District Contract 1B Phase 2  
 Job Location: Stanford, KY  
 Contractor: Frederick and May Construction

Plant: 100  
 5/5/2026 8:17:40 PM

Tech: Jared - F  
 PC: E. Bradley



**Structure ID: METER VAULT - 10**

**P1 BX4884-06BAVF-FLAT**

**BOX BASE 6inW, 6inF, Variable Ht F/n**

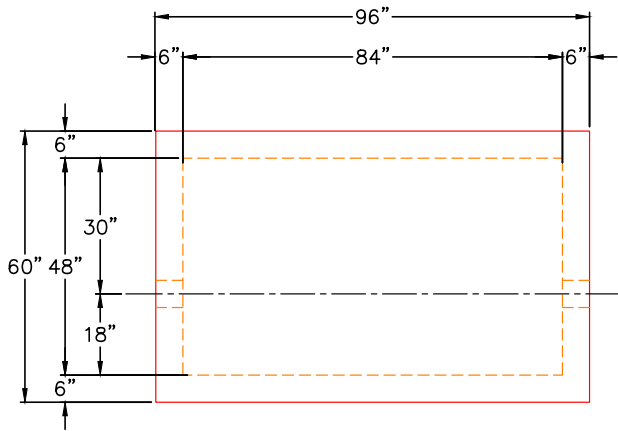
- P3) 36" x 60" - HATCH (CAST FLUSH) - 3"
- P2) 48" x 84" - CB FLAT TOP 6"W w/36"x60" HATCH F/F - 8"
- P1) 48" x 84" - BOX BASE 6inW, 6inF, Variable Ht F/n - 54"
- 1) HATCH (Alum.) - HALLIDAY W1S 36"x60"
- 1) 48" x 84" - Conseal CS-102 1.00" (Double)
- 1) 36" x 60" - Conseal CS-102 1.00" (Double)
- 2) Hole - 6

100 lb  
 2417 lb  
 10702 lb  
 116 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 13334 lb

- Structure Notes:
1. PER ASTM C913 SPECIFICATIONS.
  2. CONCRETE = 4,000 PSI AT 28 DAYS.
  3. NO STEPS AND NO INVERT CHANNEL.
  4. HATCH SUPPLIED BY ICAST (HALLIDAY W1S 36"x60").

REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 5.167' Rim to Invert: 4' Slack: 0" Sump: 14" Step Position:

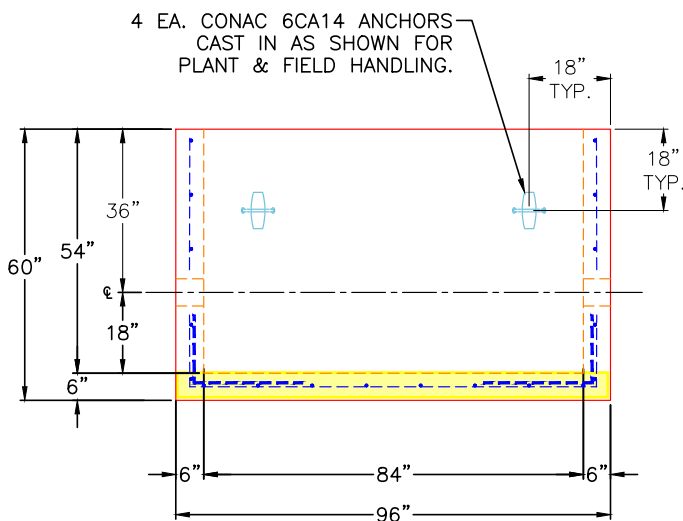


**PLAN VIEW**

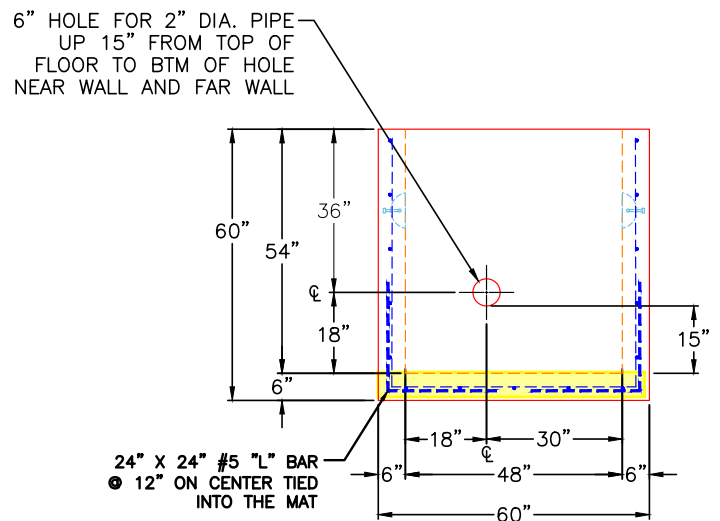
GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 12" E.W. O.C. (GRADE 60).
4. WEIGHT:  
 FIRST POUR - 2,900 LBS.  
 SECOND POUR - 7,830 LBS.  
 TOTAL - 10,730 LBS.

**FIRST POUR DRAWING**



**FRONT VIEW**



**RIGHT VIEW**

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 6"  
 Floor Height: 6"

Height (Int): 54"  
 Height (Ext): 60"

Weight (Net): 10702 lb  
 Volume (Net): 2.73cu.yd

Job Name: 24-4171 - McKinney Water District Contract 1B Phase 2  
 Job Location: Stanford, KY  
 Contractor: Frederick and May Construction

Plant: 100

5/5/2026 8:17:40 PM

Tech: Jared - F

PC: E. Bradley



**Structure ID: METER VAULT - 10**

**P1 BX4884-06BAVF-FLAT**

**BOX BASE 6inW, 6inF, Variable Ht F/n**

- P3) 36" x 60" - HATCH (CAST FLUSH) - 3"
- P2) 48" x 84" - CB FLAT TOP 6"W w/36"x60" HATCH F/F - 8"
- P1) 48" x 84" - BOX BASE 6inW, 6inF, Variable Ht F/n - 54"
- 1) HATCH (Alum.) - HALLIDAY W1S 36"x60"
- 1) 48" x 84" - Conseal CS-102 1.00" (Double)
- 1) 36" x 60" - Conseal CS-102 1.00" (Double)
- 2) Hole - 6

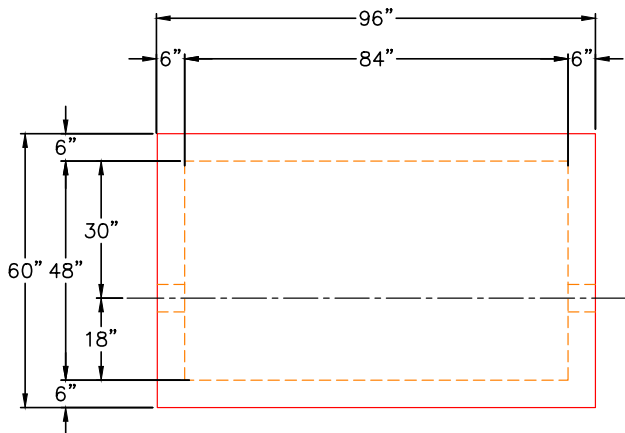
100 lb  
 2417 lb  
 10702 lb  
 116 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 13334 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO STEPS AND NO INVERT CHANNEL.
4. HATCH SUPPLIED BY ICAST (HALLIDAY W1S 36"x60").

REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 5.167' Rim to Invert: 4' Slack: 0" Sump: 14" Step Position:



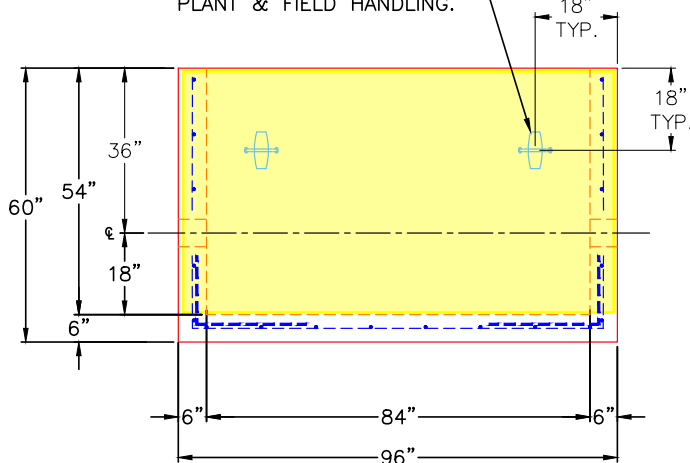
**PLAN VIEW**

GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 12" E.W. O.C. (GRADE 60).
4. WEIGHT:  
 FIRST POUR - 2,900 LBS.  
 SECOND POUR - 7,830 LBS.  
 TOTAL - 10,730 LBS.

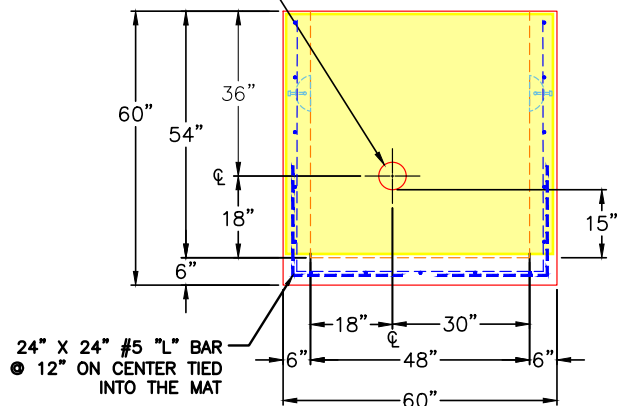
**SECOND POUR DRAWING**

4 EA. CONAC 6CA14 ANCHORS  
 CAST IN AS SHOWN FOR  
 PLANT & FIELD HANDLING.



**FRONT VIEW**

6" HOLE FOR 2" DIA. PIPE  
 UP 15" FROM TOP OF  
 FLOOR TO BTM OF HOLE  
 NEAR WALL AND FAR WALL



**RIGHT VIEW**

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 6"  
 Floor Height: 6"

Height (Int): 54"  
 Height (Ext): 60"

Weight (Net): 10702 lb  
 Volume (Net): 2.73cu.yd

Job Name: 24-4171 - McKinney Water District Contract 1B Phase 2  
 Job Location: Stanford, KY  
 Contractor: Frederick and May Construction

Plant: 100  
 5/5/2026 8:17:40 PM

Tech: Jared - F  
 PC: E. Bradley



**Structure ID: METER VAULT - 9**

**P1 BX4884-06BAVF-FLAT**

**BOX BASE 6inW, 6inF, Variable Ht F/n**

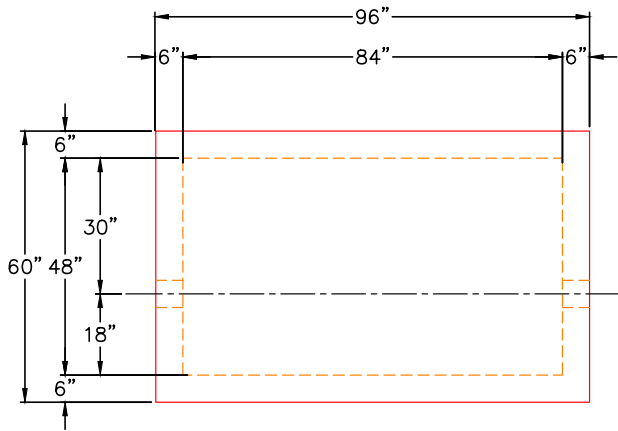
- P3) 36" x 60" - HATCH (CAST FLUSH) - 3"
- P2) 48" x 84" - CB FLAT TOP 6"W w/36"x60" HATCH F/F - 8"
- P1) 48" x 84" - BOX BASE 6inW, 6inF, Variable Ht F/n - 54"
- 1) HATCH (Alum.) - HALLIDAY W1S 36"x60"
- 1) 48" x 84" - Conseal CS-102 1.00" (Double)
- 1) 36" x 60" - Conseal CS-102 1.00" (Double)
- 2) Hole - 6

100 lb  
 2417 lb  
 10702 lb  
 116 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 13334 lb

**Structure Notes:**  
 1. PER ASTM C913 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO STEPS AND NO INVERT CHANNEL.  
 4. HATCH SUPPLIED BY ICAST (HALLIDAY W1S 36"x60").

REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 5.167' Rim to Invert: 4' Slack: 0" Sump: 14" Step Position:



**PLAN VIEW**

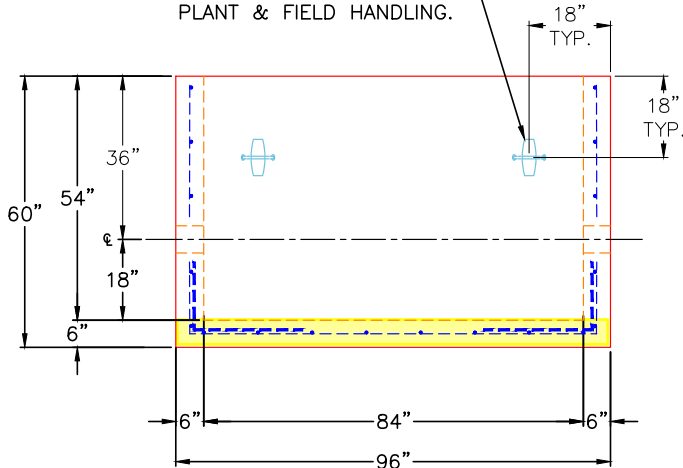
**GENERAL NOTES:**

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 12" E.W. O.C. (GRADE 60).
4. WEIGHT:  
 FIRST POUR - 2,900 LBS.  
 SECOND POUR - 7,830 LBS.  
 TOTAL - 10,730 LBS.

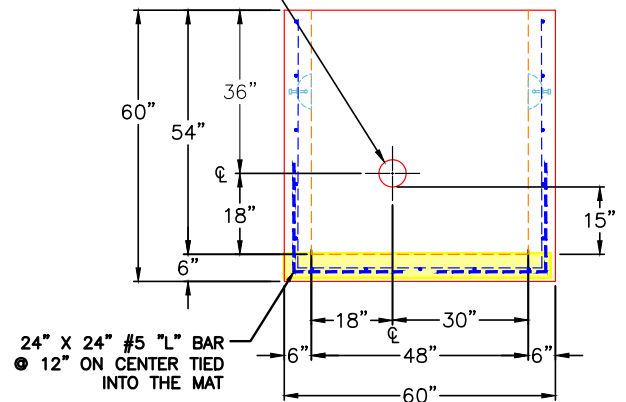
**FIRST POUR DRAWING**

4 EA. CONAC 6CA14 ANCHORS CAST IN AS SHOWN FOR PLANT & FIELD HANDLING.

6" HOLE FOR 2" DIA. PIPE UP 15" FROM TOP OF FLOOR TO BTM OF HOLE NEAR WALL AND FAR WALL



**FRONT VIEW**



**RIGHT VIEW**

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 6"  
 Floor Height: 6"

Height (Int): 54"  
 Height (Ext): 60"

Weight (Net): 10702 lb  
 Volume (Net): 2.73cu.yd

Job Name: 24-4171 - McKinney Water District Contract 1B Phase 2  
 Job Location: Stanford, KY  
 Contractor: Frederick and May Construction

Plant: 100  
 5/5/2026 8:17:40 PM

Tech: Jared - F  
 PC: E. Bradley



**Structure ID: METER VAULT - 9**

**P1 BX4884-06BAVF-FLAT**

**BOX BASE 6inW, 6inF, Variable Ht F/n**

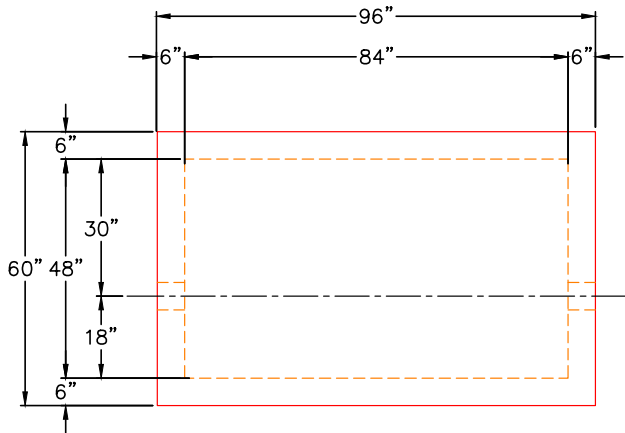
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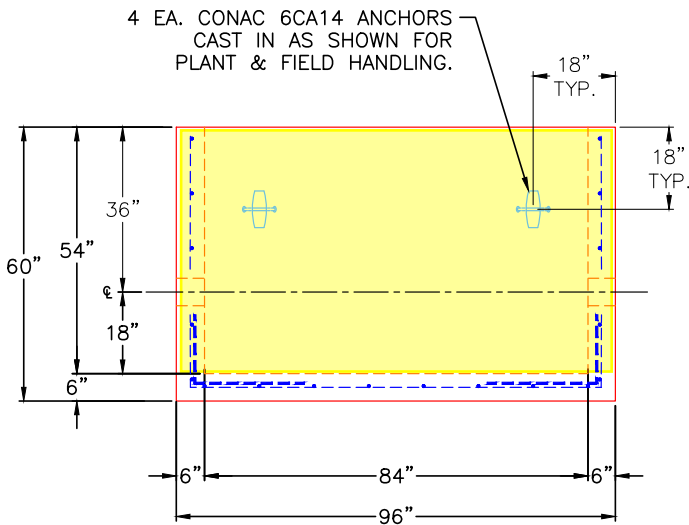


**PLAN VIEW**

**GENERAL NOTES:**

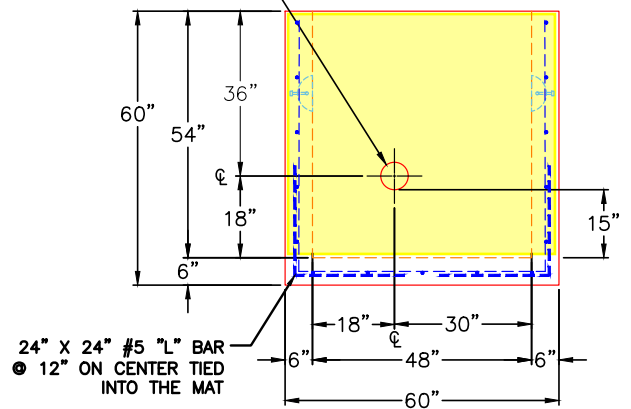
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2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 12" E.W. O.C. (GRADE 60).
4. WEIGHT:  
 FIRST POUR - 2,900 LBS.  
 SECOND POUR - 7,830 LBS.  
 TOTAL - 10,730 LBS.

**SECOND POUR DRAWING**



**FRONT VIEW**

6" HOLE FOR 2" DIA. PIPE UP 15" FROM TOP OF FLOOR TO BTM OF HOLE NEAR WALL AND FAR WALL



**RIGHT VIEW**

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 6"  
 Floor Height: 6"

Height (Int): 54"  
 Height (Ext): 60"

Weight (Net): 10702 lb  
 Volume (Net): 2.73cu.yd