

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

Plant: Beaver Dam  
 4/23/2026 11:53:55 AM

Tech: S. Felletter  
 PC: S. Goff



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

**P2 MH120RS96**

**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

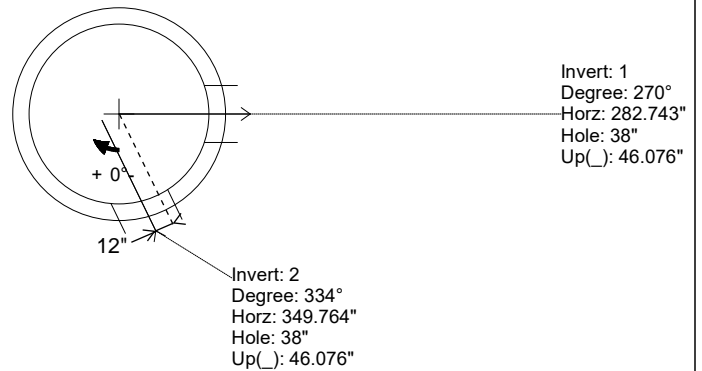
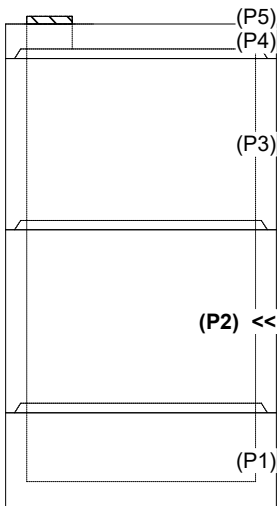
0 lb  
 16223 lb  
 34189 lb  
 34322 lb  
 32280 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 117013 lb

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

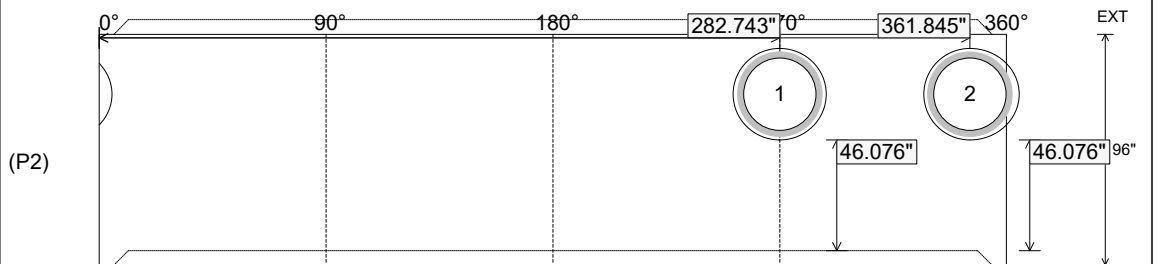
Rim: 834.9' Rim to Invert: 13.4' Slack: 8.876" Sump: 92.076" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	821.5'	270°	334.58"	30" HDPE	35.1"	Hole 38	38"	38.666"	46.076"	0"
Invert 2	821.5'	334°	425.945"	30" HDPE	35.1"	Hole 38	38"	39.593"	46.076"	12"
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): 96"  
 Height (Ext): 96"

Weight (Net): 34322 lb  
 Volume (Net): 8.77cu.yd

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

Plant: 100

Tech: Jared - F

5/14/2026 11:30:47 AM

PC: T. Lewis



**Structure ID: SSWR-2**

**P1 MH048BA30**

**MH BASE T/n**

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - GRADE RING F/F - 4"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE 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 - FULL HEIGHT
- 1) CASTING - HOE MC-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12M NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

- 0 lb
- 270 lb
- 3000 lb
- 3330 lb
- 0 lb
- 0 lb
- 1440 lb
- 258 lb
- 0 lb
- 16 lb
- 0 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).**

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

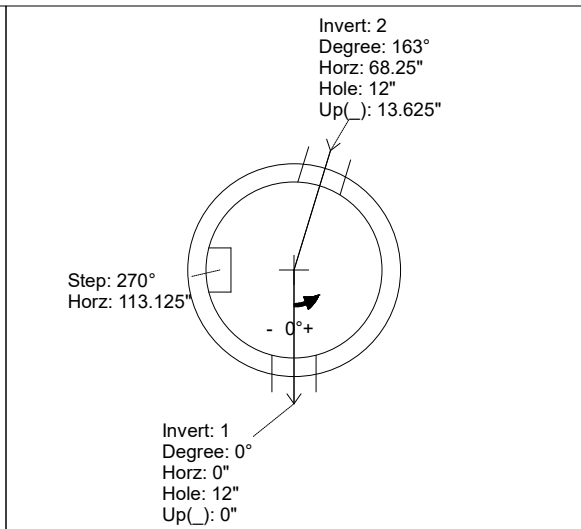
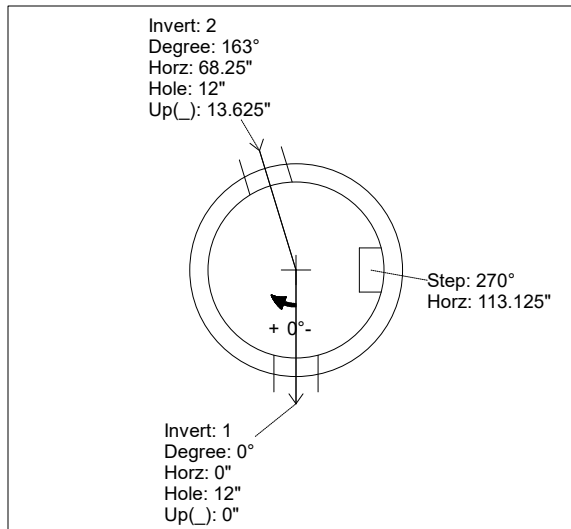
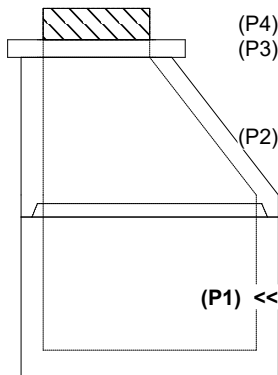
Structure Total: 8314 lb

Rim: 884.55' Rim to Invert: 6.38' Slack: 1.56" Sump: 2" Step Position: 270°

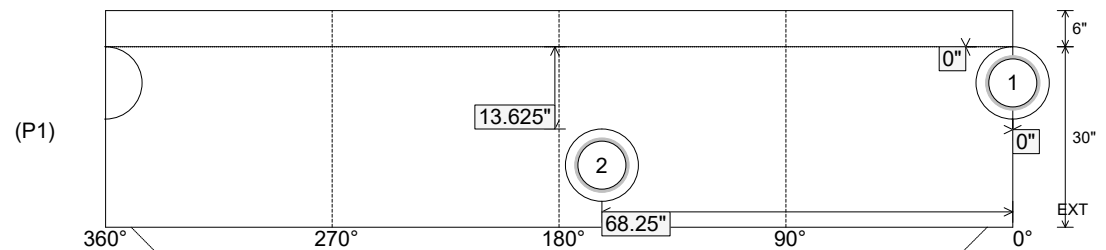
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	878.17'	0°	0"	8" PVC C900	9.05"	PSX 12M NYLO	12"	12.129"	0"	0"
Invert 2	879.31'	163°	82.5"	8" PVC C900	9.05"	PSX 12M NYLO	12"	12.129"	13.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

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

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



**INSIDE WALL DIMENSIONS**



Coating (Int):  
Coating (Ext):

Seam Up: Tongue  
Seam Dn: n/a

Wall Thickness: 5"  
Floor Height: 6"

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

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

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

Plant: 100

5/14/2026 11:30:47 AM

Tech: Jared - F

PC: T. Lewis



**Structure ID: SSWR-2**

**P1 MH048BA30**

**MH BASE T/n**

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - GRADE RING F/F - 4"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE 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 - FULL HEIGHT
- 1) CASTING - HOE MC-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12M NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

- 0 lb
- 270 lb
- 3000 lb
- 3330 lb
- 0 lb
- 0 lb
- 1440 lb
- 258 lb
- 0 lb
- 0 lb
- 16 lb
- 0 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).  
 - CONE (As .12)  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

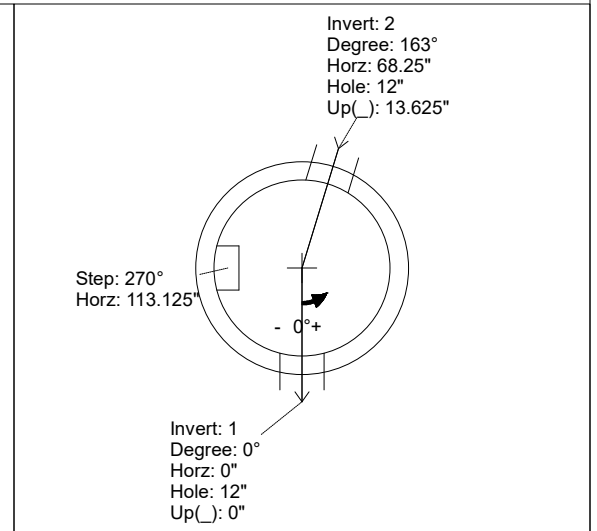
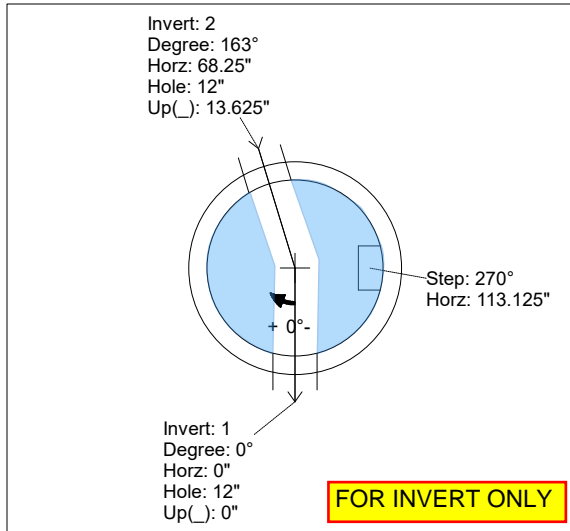
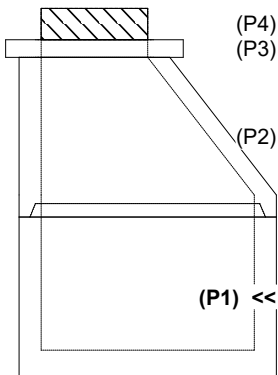
Structure Total: 8314 lb

Rim: 884.55' Rim to Invert: 6.38' Slack: 1.56" Sump: 2" Step Position: 270°

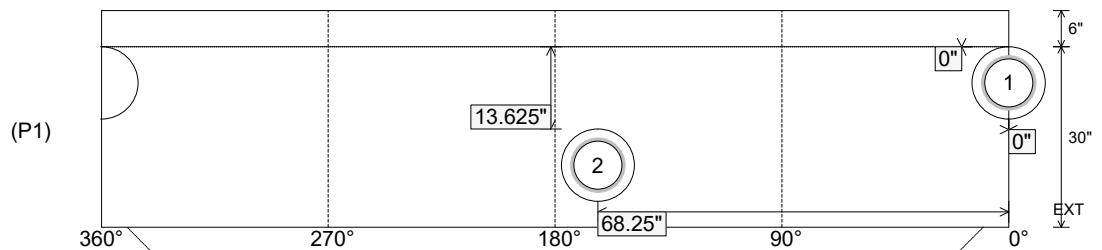
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	878.17'	0°	0"	8" PVC C900	9.05"	PSX 12M NYLO	12"	12.129"	0"	0"
Invert 2	879.31'	163°	82.5"	8" PVC C900	9.05"	PSX 12M NYLO	12"	12.129"	13.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

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

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

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

Plant: 100

Tech: Jared - F

5/14/2026 11:30:47 AM

PC: T. Lewis



**Structure ID: SSWR-1**

**P1 MH048BA18**

**MH BASE T/n**

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 24"
- P1) 48" - MH BASE T/n - 18"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 1) CASTING - HOE MC-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) Quik-Lok - QL-08-C
- 1) PSX - 12M NYLO
- 3) MH Step ML-10-TDS-NCR - 10"

- 0 lb
- 1550 lb
- 2501 lb
- 0 lb
- 0 lb
- 1440 lb
- 258 lb
- 0 lb
- 1 lb
- 8 lb
- 0 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).

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

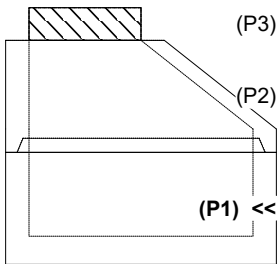
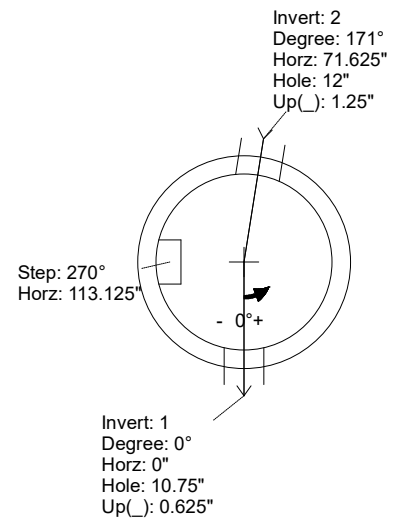
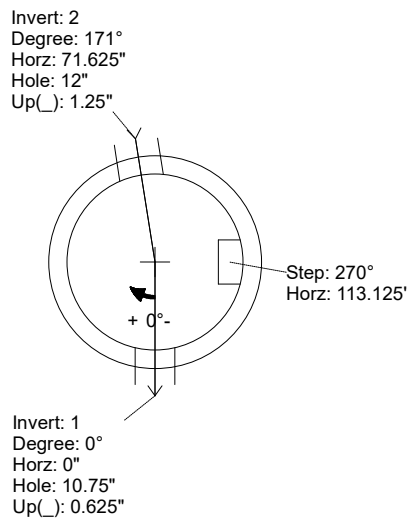
Structure Total: 5758 lb

Rim: 872.49' Rim to Invert: 4.1' Slack: 2.2" Sump: 2" Step Position: 270°

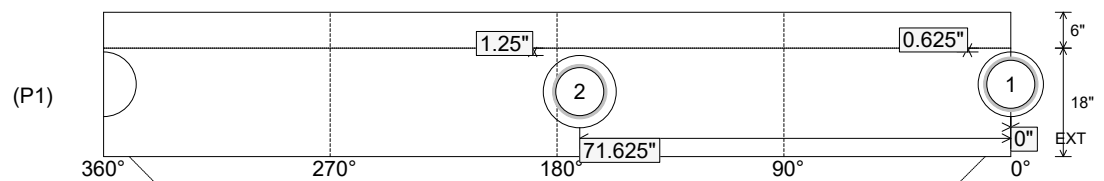
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	868.39'	0°	0"	8" PVC C900	9.05"	Quik-Lok QL-08-C	10.75"	10.842"	0.625"	0"
Invert 2	868.49'	171°	86.5"	8" PVC C900	9.05"	PSX 12M NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

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

Weight (Net): 2501 lb  
 Volume (Net): 0.64cu.yd

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

Plant: 100

Tech: Jared - F

5/14/2026 11:30:47 AM

PC: T. Lewis



**Structure ID: SSWR-1**

**P1 MH048BA18**

**MH BASE T/n**

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 24"
- P1) 48" - MH BASE T/n - 18"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 1) CASTING - HOE MC-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) Quik-Lok - QL-08-C
- 1) PSX - 12M NYLO
- 3) MH Step ML-10-TDS-NCR - 10"

0 lb  
 1550 lb  
 2501 lb  
 0 lb  
 0 lb  
 1440 lb  
 258 lb  
 0 lb  
 1 lb  
 8 lb  
 0 lb  
 -----  
 Structure Total: 5758 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).

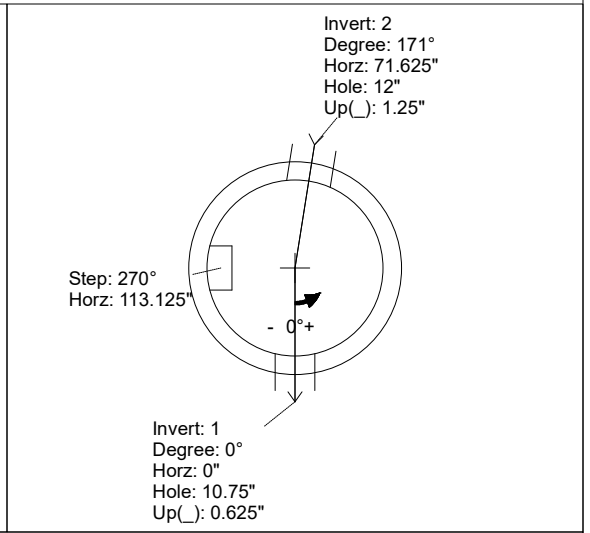
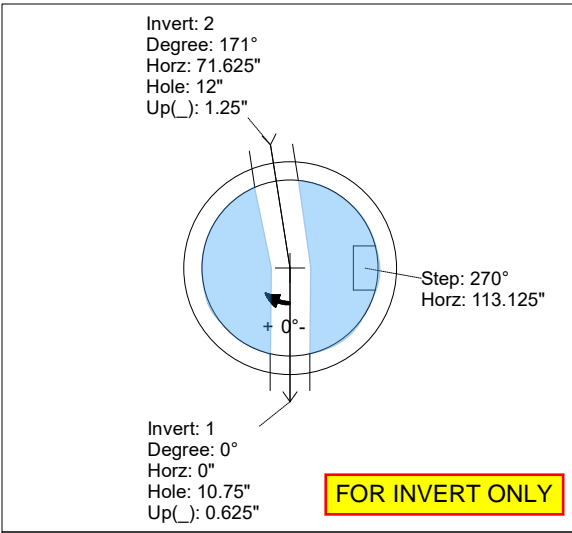
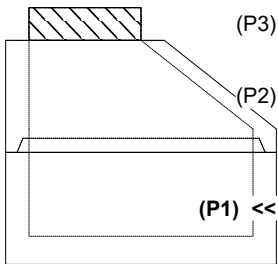
REINFORCING PER ASTM A615 (GRADE 60).  
 - CONE (As .12)  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 872.49' Rim to Invert: 4.1' Slack: 2.2" Sump: 2" Step Position: 270°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	868.39'	0°	0"	8" PVC C900	9.05"	Quik-Lok QL-08-C	10.75"	10.842"	0.625"	0"
Invert 2	868.49'	171°	86.5"	8" PVC C900	9.05"	PSX 12M NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

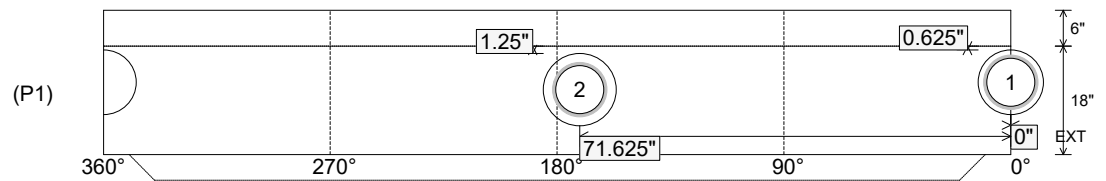
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



**FOR INVERT ONLY**

INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

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

Weight (Net): 2501 lb  
 Volume (Net): 0.64cu.yd

Job Name: 25-2511B - Blue Sky Sec 1 (Storm)	Plant: 100	Tech: J. Horsley - F
Job Location: Clarksville, TN	11/17/2025 5:01:55 PM	PC: A. Chambers
Contractor: Byard Construction, LLC		

**Structure ID: R**

**P1 MH048BAVF**

**MH BASE Custom Ht F/n**

P3) 24" x 36" - CASTING HEIGHT - 6"	0 lb
P2) 48" - MH FLAT TOP w/24"x36" Hole F/F - 7"	1044 lb
P1) 48" - MH BASE Custom Ht F/n - 47"	3546 lb
1) Conseal CS-102 1.00" (Single)	0 lb
1) CASTING - JBS 3080-V SET (F/G/H)	500 lb
2) Hole - 38	0 lb
4) MH Step ML-10-TDS-NCR - 10"	0 lb
<b>Structure Total:</b>	<b>5090 lb</b>

**Structure Notes:**  
 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO INVERT CHANNEL.  
 4. CASTING BY I-CAST (JBS 3080-V SET F/G/H).

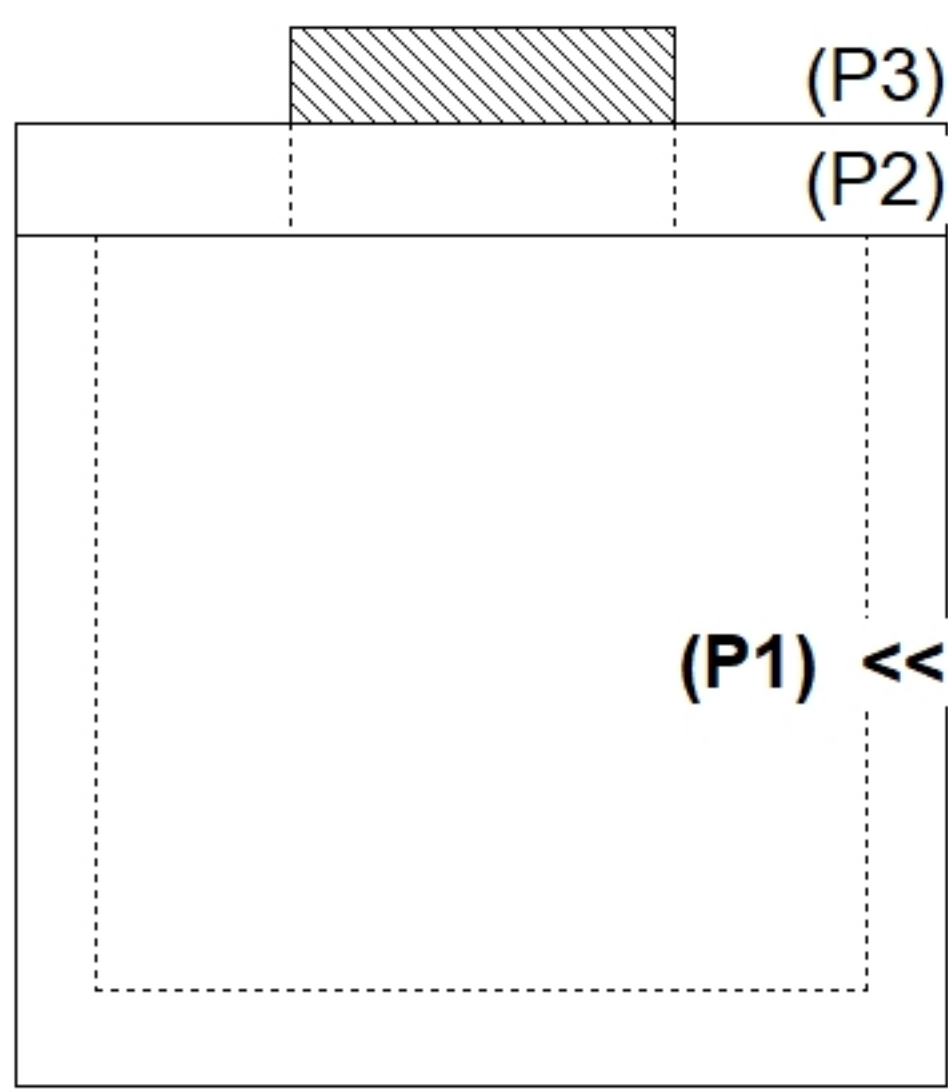
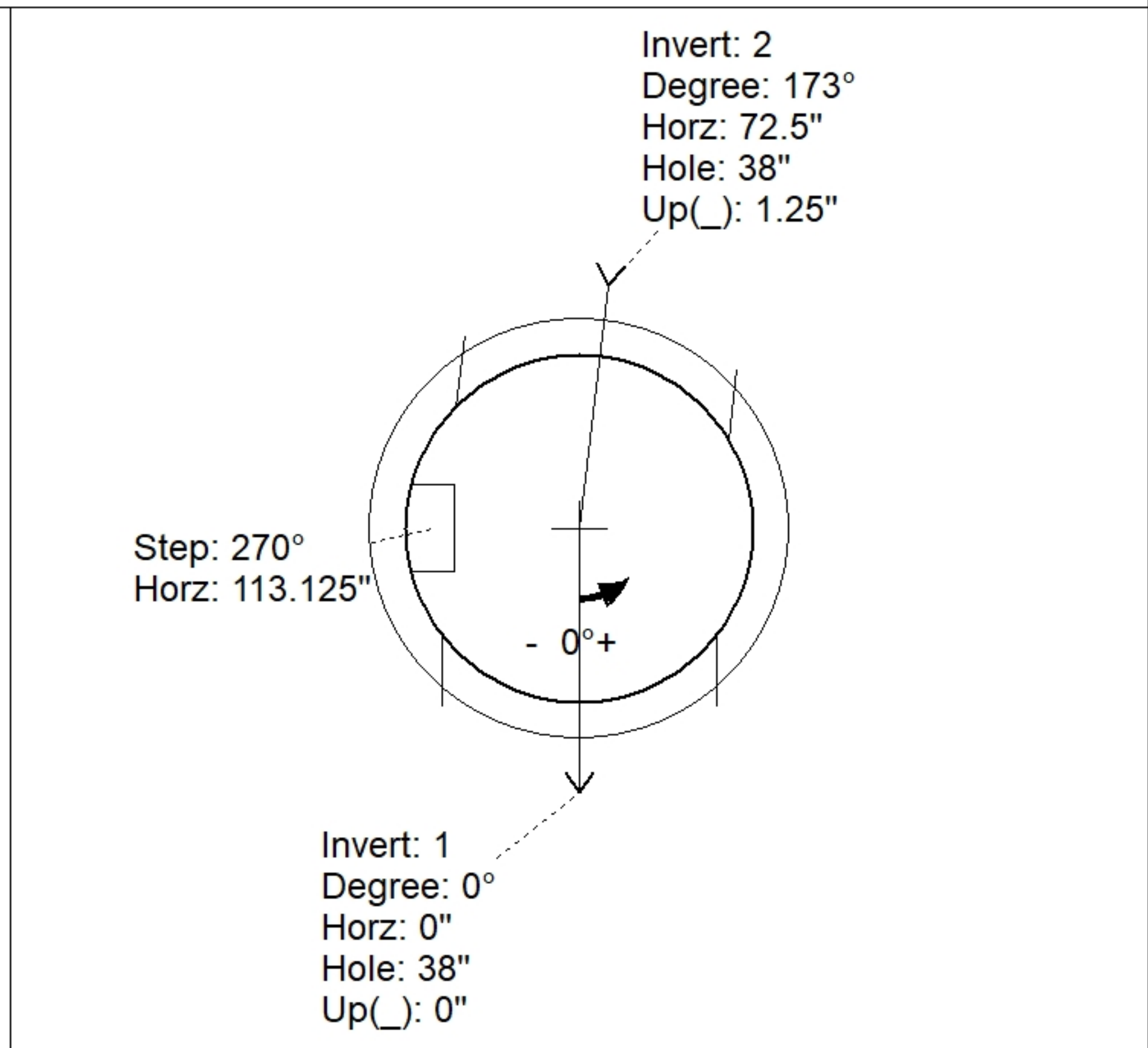
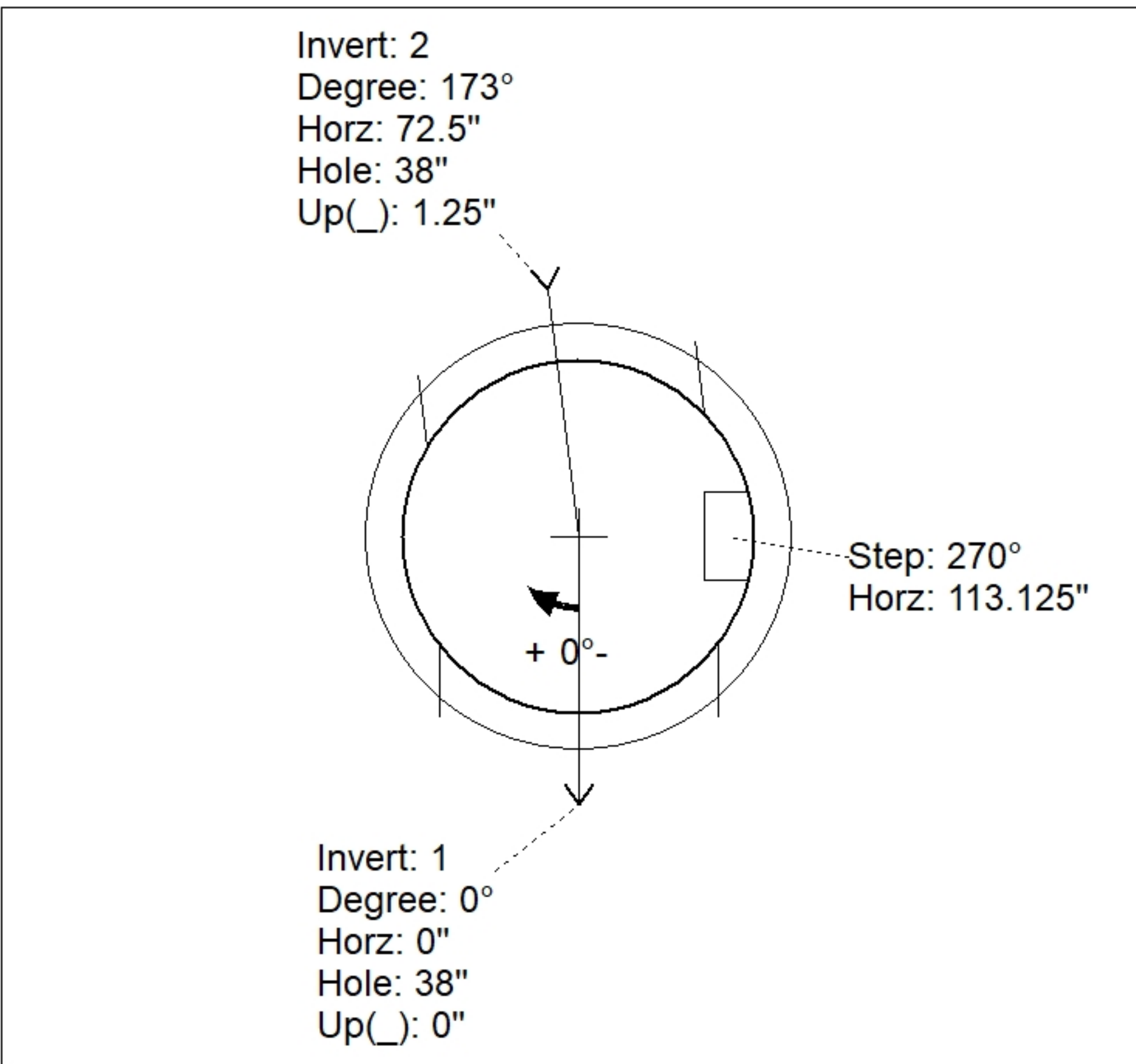
REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 503.32' Rim to Invert: 4.84' Slack: 0.63" Sump: 2.55" Step Position: 270

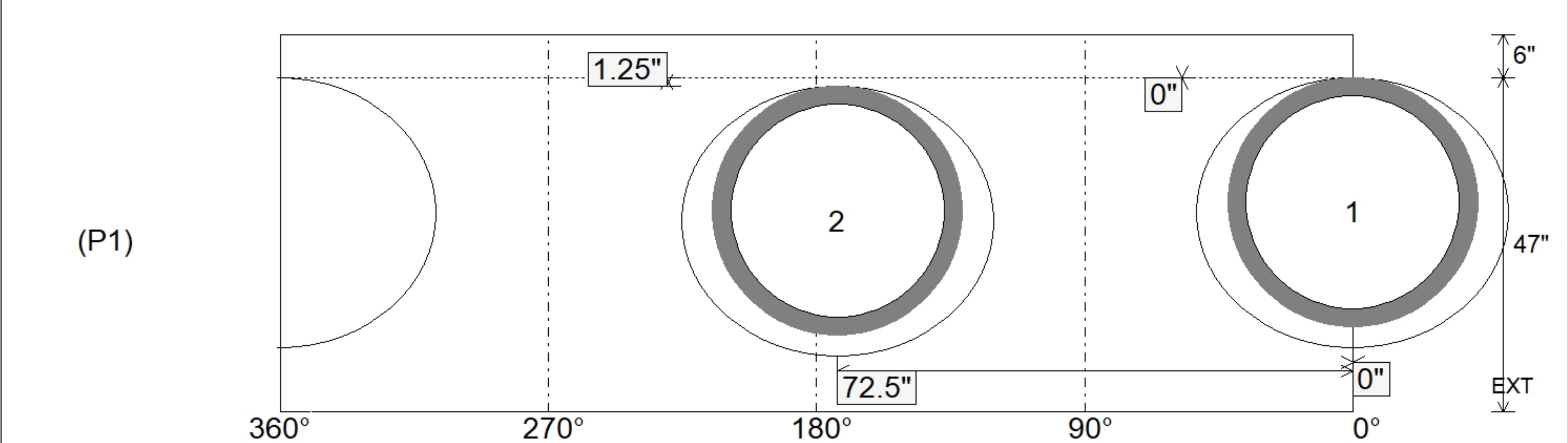
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	498.48'	0°	0"	30" HDPE	35.1"	Hole 38	38"	43.85"	0"	0"
Invert 2	498.58'	173°	87.625"	30" HDPE	35.1"	Hole 38	38"	43.85"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Flat	Wall Thickness: 5"	Height (Int): 47"	Weight (Net): 3546 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 6"	Height (Ext): 53"	Volume (Net): 0.91cu.yd

Job Name: 25-4731 - Mantra Journey Dispensary  
 Job Location: Bardstown, KY 40004  
 Contractor: Hale Contracting

Plant: 100

5/15/2026 12:11:24 PM

Tech: Jared - A

PC: T. Ryan



**Structure ID: ST-3 (4)**

**P1 MH048BAVF**

**MH BASE Custom Ht F/n**

- P3) 18" x 36" - CASTING HEIGHT - 5.5"
- P2) 48" - MH FLAT TOP w/18"x36" Hole F/F - 7"
- P1) 48" - MH BASE Custom Ht F/n - 27"
- 1) CASTING - HOE 580-LV F/G
- 1) 48" - Conseal CS-102 1.00"
- 1) 18" x 36" - Conseal CS-102 1.00"
- 1) Hole - 16

0 lb  
 1171 lb  
 3131 lb  
 514 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 4816 lb

Structure Total: 4816 lb

Structure Notes:

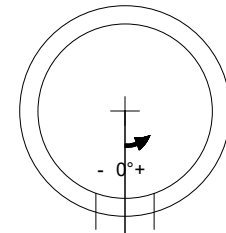
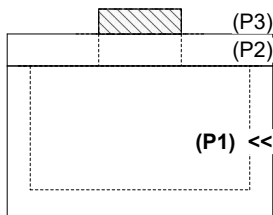
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615
4. NO STORM INVERT
5. NO STEPS
6. HOE 580-LV FRAME & L-VANE GRATES SUPPLIED BY ICAST

Rim: 696.5' Rim to Invert: 3.36' Slack: 0.82' Sump: 0' Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	693.14'	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										

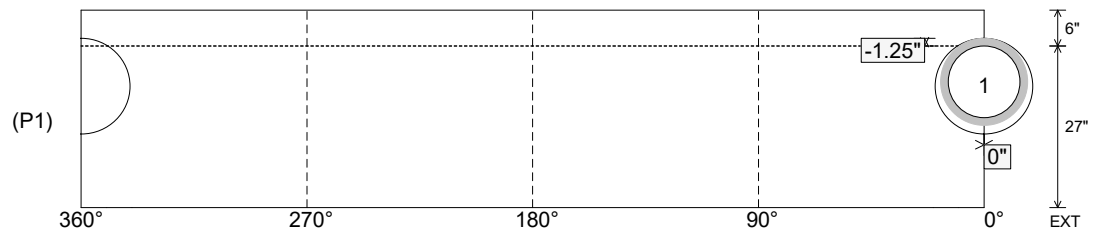
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



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

INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

Height (Int): 27"  
 Height (Ext): 33"

Weight (Net): 3131 lb  
 Volume (Net): 0.8cu.yd

**Structure ID: ST-2 (3)**

**P1 MH048BAVF**

**MH BASE Custom Ht F/n**

P3) 18" x 36" - CASTING HEIGHT - 5.5" P2) 48" - MH FLAT TOP w/18"x36" Hole F/F - 6" P1) 48" - MH BASE Custom Ht F/n - 22" 1) CASTING - HOE 580-LV F/G 1) 48" - Conseal CS-102 1.00" 1) 18" x 36" - Conseal CS-102 1.00" 1) DOGHOUSE INVRTD - 24"x23" 1) Hole - 16	0 lb 1004 lb 2613 lb 514 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 4131 lb
--	--

Structure Notes:

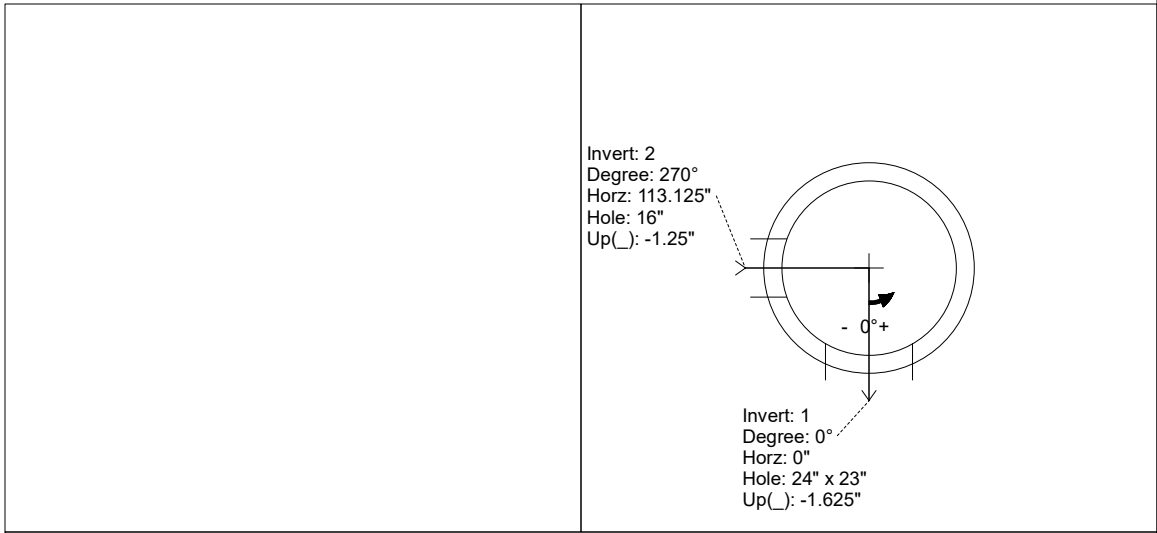
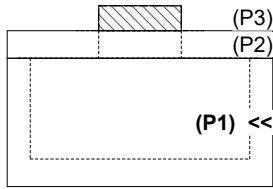
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615
4. NO STORM INVERT
5. NO STEPS
6. HOE 580-LV FRAME & L-VANE GRATES SUPPLIED BY ICAST

Rim: 695.8'    Rim to Invert: 2.8'    Slack: 0.1"    Sump: 0"    Step Position:

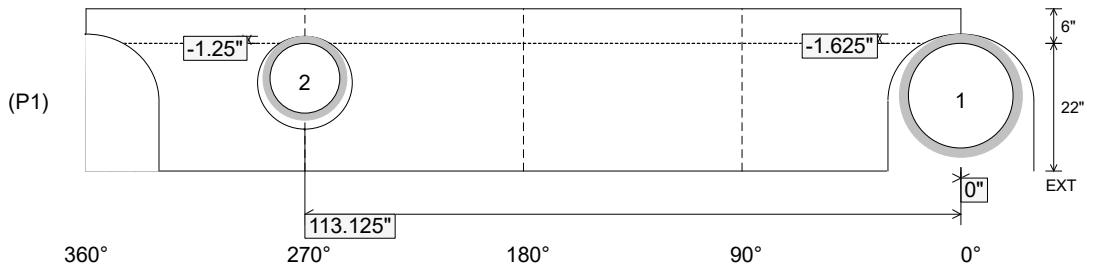
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	693'	0°	0"	18" HDPE	21.2"	DOGHOUSE INVRTD 24"x23"	24" x 23"	25.133"	-1.625"	0"
Invert 2	693'	270°	136.625"	12" HDPE	14.5"	Hole 16	16"	16.312"	-1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 22" Height (Ext): 28"	Weight (Net): 2613 lb Volume (Net): 0.67cu.yd
----------------------------------	-------------------------------	--	--	--

Job Name: 25-4731 - Mantra Journey Dispensary  
 Job Location: Bardstown, KY 40004  
 Contractor: Hale Contracting

Plant: 100

Tech: Jared - A

5/15/2026 12:11:23 PM

PC: T. Ryan



**Structure ID: ST-1 (2)**

**P1 MH048BAVF**

**MH BASE Custom Ht F/n**

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - MH FLAT TOP w/ 24" Center Hole F/F - 7"
- P1) 48" - MH BASE Custom Ht F/n - 28"
- 1) SECONDARY POUR - Weir Wall (48" X 8.4" X 4")
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" - Conseal CS-102 1.00"
- 2) Hole - 24
- 2) Hole - 12

- Structure Notes:**
1. PER 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 MC-420 FRAME & COVER "STORM" SUPPLIED BY ICAST
  7. THIS STRUCTURE CONTAINS A WEIR WALL - SEE SECOND POUR DRAWING FOR WEIR WALL DETAILS

Structure Total: 4629 lb

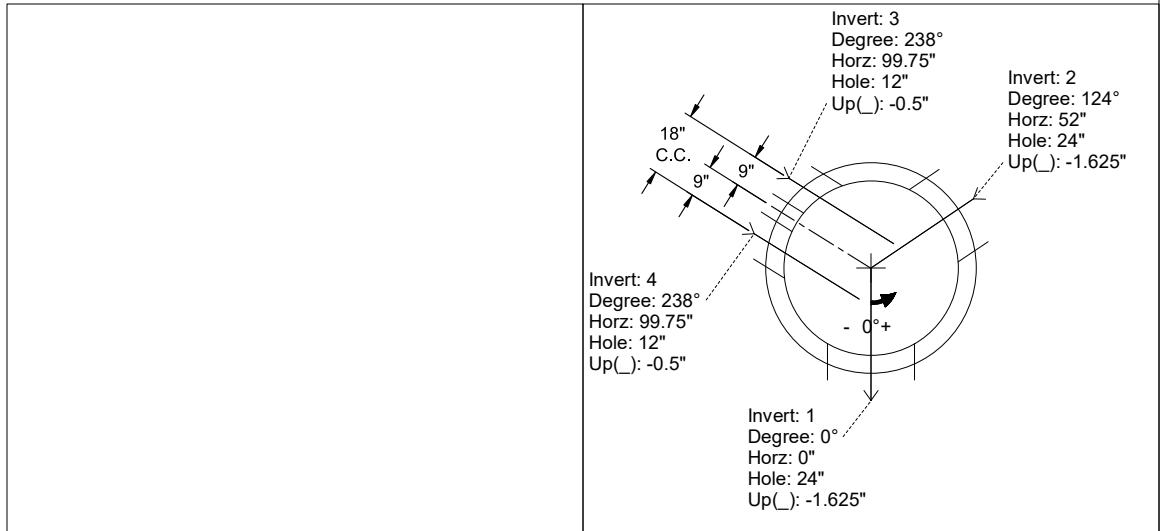
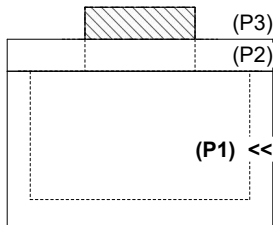
**FIRST POUR (BASE): 2,789 LBS**  
**SECOND POUR (WEIR WALL): 140 LBS**

Rim: 696.43' Rim to Invert: 3.53' Slack: 0.36" Sump: 0" Step Position:

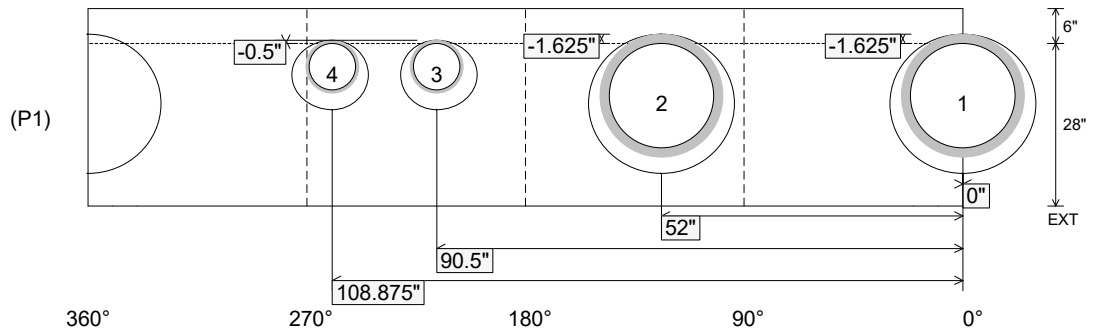
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	692.9'	0°	0"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"
Invert 2	692.9'	124°	62.75"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"
Invert 3	692.9'	238°	111.25"	8" HDPE	9.1"	Hole 12	12"	13.195"	-0.5"	-9"
Invert 4	692.9'	238°	129.625"	8" HDPE	9.1"	Hole 12	12"	13.195"	-0.5"	9"
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): 28"  
 Height (Ext): 34"

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

Job Name: 25-4731 - Mantra Journey Dispensary  
 Job Location: Bardstown, KY 40004  
 Contractor: Hale Contracting

Plant: 100

5/15/2026 12:11:23 PM

Tech: Jared - A

PC: T. Ryan



**Structure ID: ST-1 (2)**

**P1 MH048BAVF**

**MH BASE Custom Ht F/n**

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - MH FLAT TOP w/ 24" Center Hole F/F - 7"
- P1) 48" - MH BASE Custom Ht F/n - 28"
- 1) SECONDARY POUR - Weir Wall (48" X 8.4" X 4")
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" - Conseal CS-102 1.00"
- 2) Hole - 24
- 2) Hole - 12

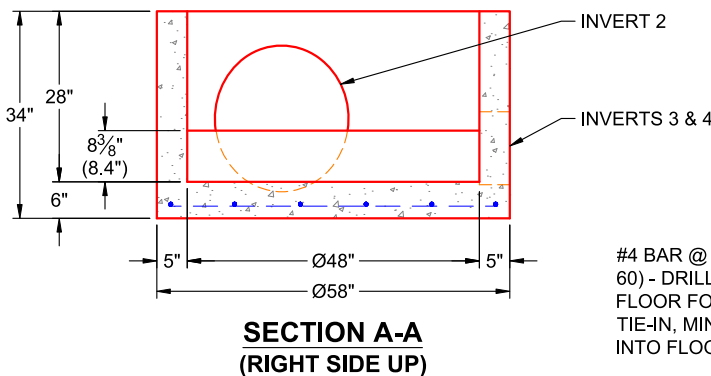
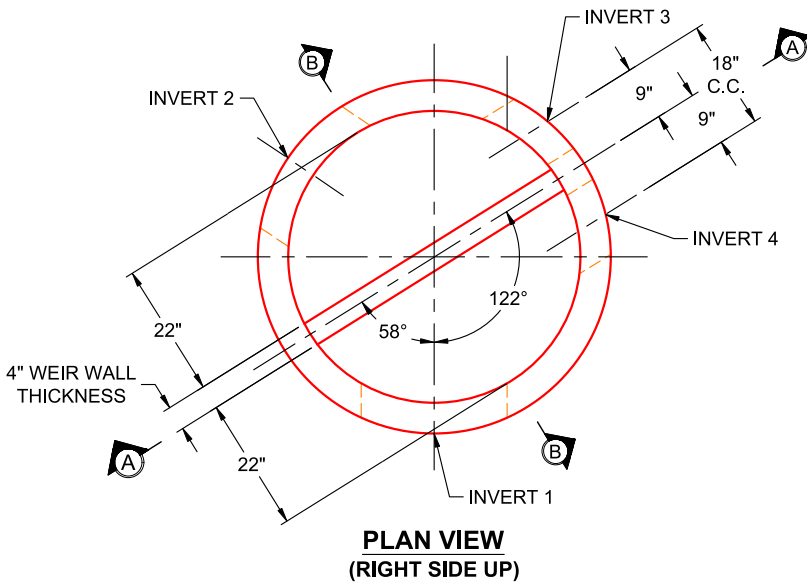
0 lb  
 1700 lb  
 2789 lb  
 140 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 Structure Total: 4629 lb

- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT: #4 BAR @ 12" C.C. E.W. (GRADE 60) - 1.5" MIN. REBAR CLEARANCE (TYP) - DRILL & DOWEL #4 BAR @ 12" C.C. E.W. (GRADE 60) INTO BASE FLOOR FOR WEIR WALL POUR TIE-IN, MIN. 4" PENETRATION INTO FLOOR
  4. SEE FIRST POUR DRAWING FOR BASE DETAILS

**FIRST POUR (BASE): 2,789 LBS**  
**SECOND POUR (WEIR WALL): 140 LBS**

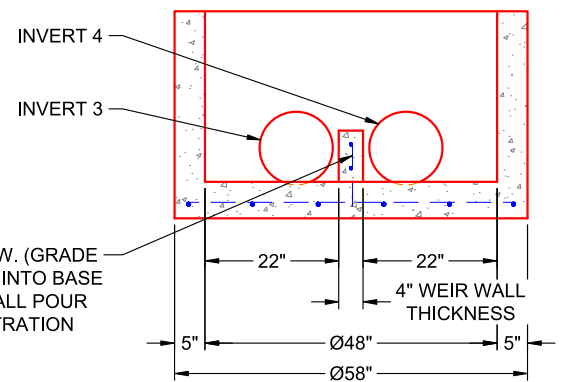
Rim: 696.43' Rim to Invert: 3.53' Slack: 0.36" Sump: 0" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	Offset
Invert 1	692.9'	0°	0"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"
Invert 2	692.9'	124°	62.75"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"
Invert 3	692.9'	238°	111.25"	8" HDPE	9.1"	Hole 12	12"	13.195"	-0.5"	-9"
Invert 4	692.9'	238°	129.625"	8" HDPE	9.1"	Hole 12	12"	13.195"	-0.5"	9"
Invert 5										



**SECTION A-A  
(RIGHT SIDE UP)**

#4 BAR @ 12" C.C. E.W. (GRADE 60) - DRILL & DOWEL INTO BASE FLOOR FOR WEIR WALL POUR TIE-IN, MIN. 4" PENETRATION INTO FLOOR



**SECTION B-B  
(RIGHT SIDE UP)**

Job Name: 25-1675 - Campbellsville Middle School Ph 2  
 Job Location: Campbellsville, KY 72718  
 Contractor: Rising Sun Development Company

Plant: Beaver Dam, KY  
 4/23/2026 3:19:45 PM

Tech: J. Coppage  
 PC: J. Jarvis



**Structure ID: 16**

**P1 MH048BAVF**

**MH BASE Custom Ht T/n**

- P3) 24" x 36" - CASTING HEIGHT - 6"
- P2) 48" - MH FLAT TOP w/24"x36" Hole F/G - 12"
- P1) 48" - MH BASE Custom Ht T/n - 26"
- 1) CASTING - HOE 525 LV SET (F/G/H)
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 1) Hole - 20
- 2) MH Step ML-10-TDS-NCR - 10"

0 lb  
 1300 lb  
 3011 lb  
 442 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 Structure Total: 4753 lb

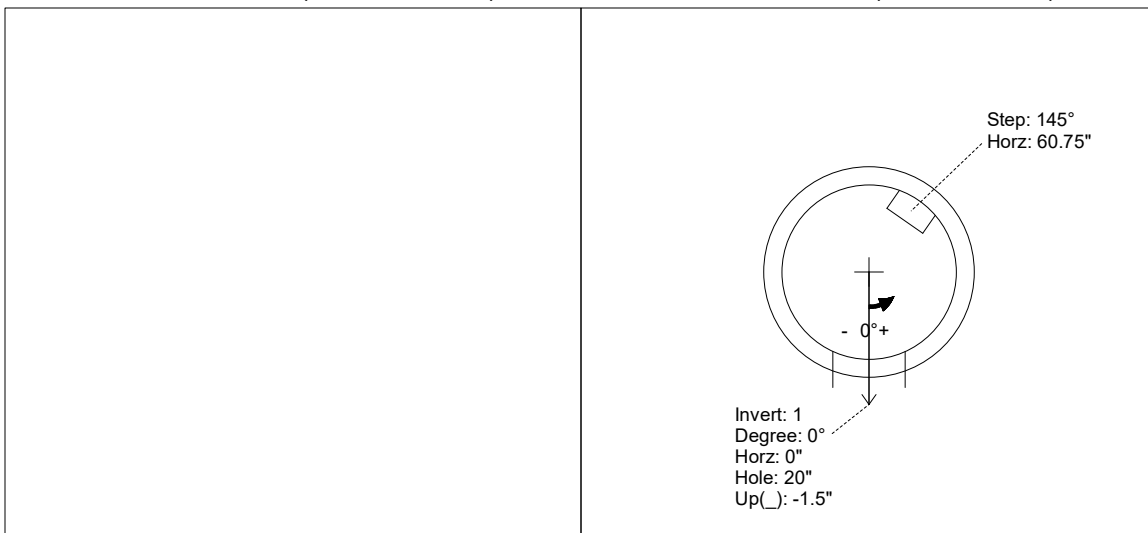
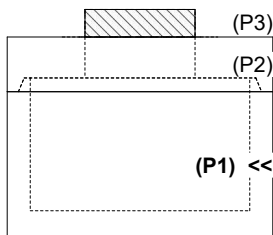
- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,500 PSI AT 28 DAYS
  3. REINFORCEMENT: PER ASTM A615
  4. NO STORM INVERT
  5. STEPS AT 145 DEGREES
  6. HOE-525-LV FRAME, L-VANE GRATE, & CURB HOOD SUPPLIED BY ICAST

Rim: 799.1' Rim to Invert: 3.74' Slack: 0.88" Sump: 0" Step Position: 145°

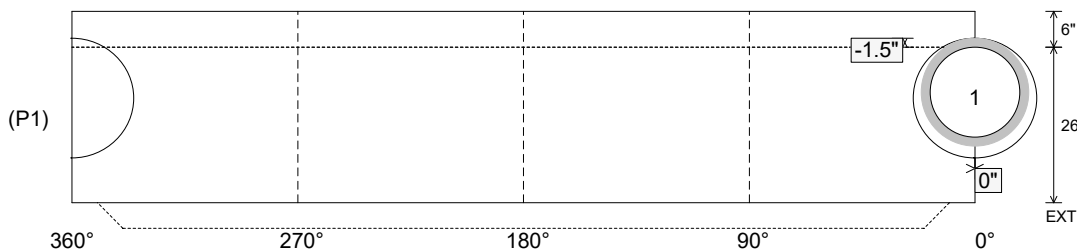
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	795.36'	0°	0"	15" ADS N-12	18"	Hole 20	20"	20.629"	-1.5"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

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

Weight (Net): 3011 lb  
 Volume (Net): 0.77cu.yd

Job Name: 25-1675 - Campbellsville Middle School Ph 2  
 Job Location: Campbellsville, KY 72718  
 Contractor: Rising Sun Development Company

Plant: Beaver Dam, KY  
 4/23/2026 3:19:45 PM

Tech: J. Coppage  
 PC: J. Jarvis



**Structure ID: 15**

**P1 MH048BA42**

**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 - 42"
- 1) CASTING - HOE MCB-315-B Fr./Bar Grate
- 1) 48" - Conseal CS-102 1.00"
- 1) Hole - 30
- 1) Hole - 12
- 3) MH Step ML-10-TDS-NCR - 10"

0 lb  
 1561 lb  
 3900 lb  
 255 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 Structure Total: 5716 lb

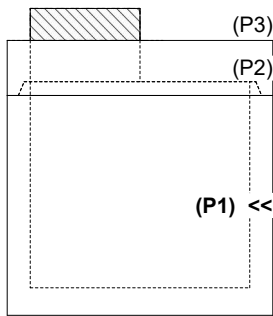
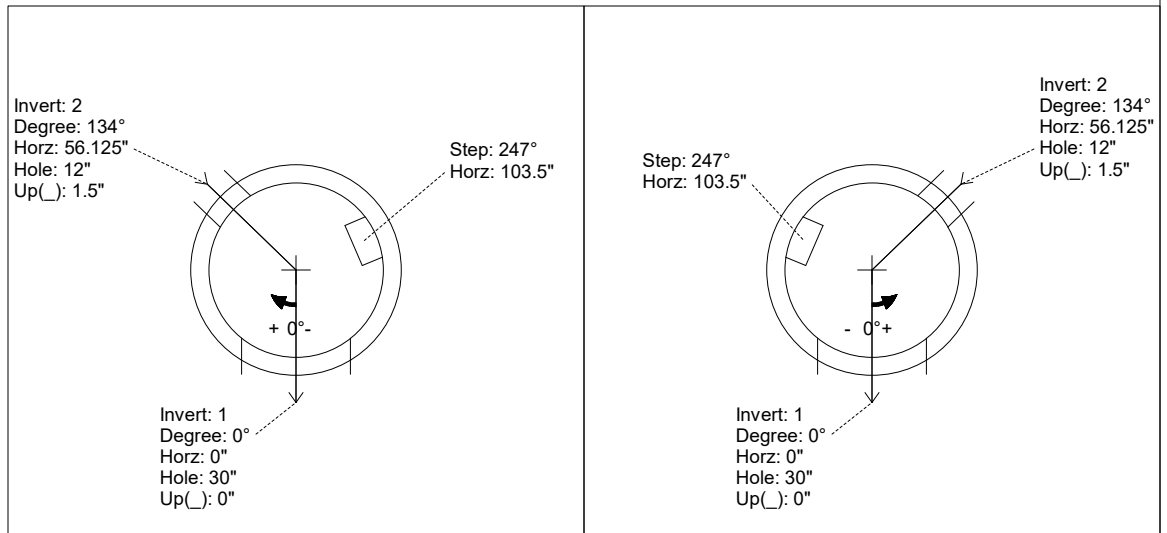
- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,500 PSI AT 28 DAYS
  3. REINFORCEMENT: PER ASTM A615
  4. NO STORM INVERT
  5. STEPS AT 247 DEGREES
  6. HOE MCB-315-B FRAME & BAR GRATE SUPPLIED BY ICAST

Rim: 803.5' Rim to Invert: 5' Slack: 1" Sump: 2" Step Position: 247°

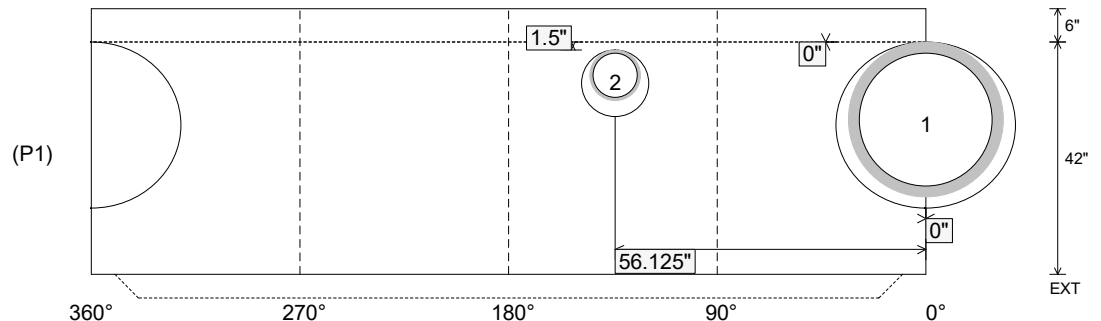
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	798.5'	0°	0"	24" ADS N-12	28"	Hole 30	30"	32.406"	0"	0"
Invert 2	798.5'	134°	67.875"	8" ADS N-12	9.1"	Hole 12	12"	12.129"	1.5"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

Height (Int): 42"  
 Height (Ext): 48"

Weight (Net): 3900 lb  
 Volume (Net): 1cu.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 11:41:26 AM

Tech: J. Horsley - A

PC: Celina Goff



**Structure ID: 2280821**

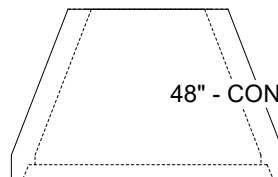
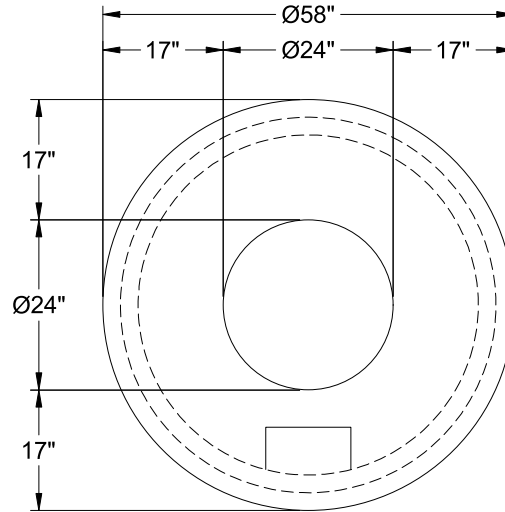
**P3 MH048CCN36**

**CON CONE w/24" HOLE F/G**

- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - CON CONE w/24" HOLE F/G - 36"
- P2) 48" - MH RISER T/G - 48"
- P1) 48" - MH BASE (08"F) T/n - 50"
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) Kor-N-Seal2 - S206-28
- 9) MH Step ML-10-TDS-NCR - 10"

0 lb
2252 lb
3353 lb
4721 lb
1440 lb
0 lb
13 lb
0 lb
-----
Structure Total: 11780 lb

- Structure Notes:
1. PER ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT: PER ASTM A615
  4. STEPS REQUIRED
  5. 7" CASTING SUPPLIED BY OTHERS



48" - CON CONE w/24" HOLE F/G - 36" - (P3)

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 36"

Weight (Net): 2252 lb  
 Volume (Net): 0.57cu.yd

**Structure ID: 123**

**P1 MH048BAVF**

**MH BASE Custom Ht T/n**

P3) 24" - CASTING HEIGHT - 4" P2) 48" - MH FLAT LID w/24in ECC Hole F/G - 12" P1) 48" - MH BASE Custom Ht T/n - 44" 1) 48" - Conseal CS-102 1.00" 2) Hole - 20 1) Hole - 18 3) MH Step ML-10-TDS-NCR - 10"	0 lb 1561 lb 4024 lb 0 lb 0 lb 0 lb 0 lb ----- 5585 lb	<b>Structure Notes:</b> <b>**KYTC STATE PROJECT**</b> 1. PER KYTC MANHOLE TYPE A / ASTM C-478 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. NO STORM INVERT 5. STEPS AT 90 DEGREES 6. HOE KY-206 FRAME & COVER "STORM" SUPPLIED BY OTHERS
--	--	---

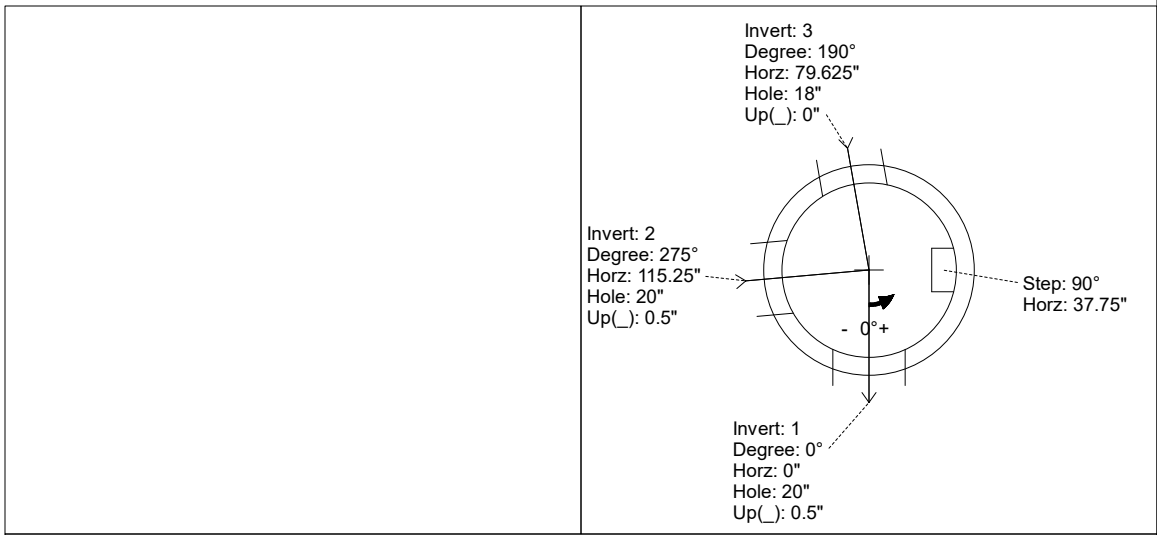
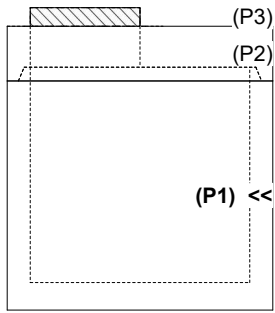
Structure Total: 5585 lb

Rim: 566.52'    Rim to Invert: 4.75'    Slack: 0"    Sump: 3"    Step Position: 0°

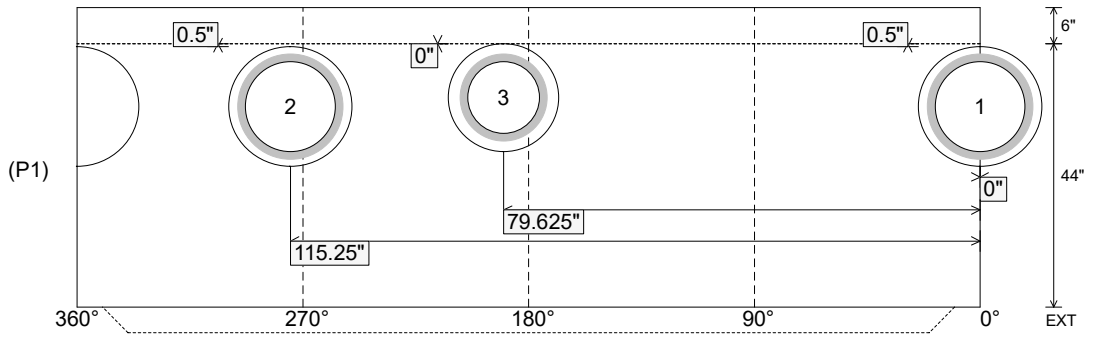
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	561.77'	0°	0"	15" HDPE	17.6"	Hole 20	20"	20.629"	0.5"	0"
Invert 2	561.77'	275°	139.25"	15" HDPE	17.6"	Hole 20	20"	20.629"	0.5"	0"
Invert 3	561.77'	190°	96.125"	12" HDPE	14.5"	Hole 18	18"	18.451"	0"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 44" Height (Ext): 50"	Weight (Net): 4024 lb Volume (Net): 1.03cu.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 1:23:00 PM

Tech: Jared - F  
 PC: J. Jarvis



**Structure ID: S204**

**P2 MH048LD12S**

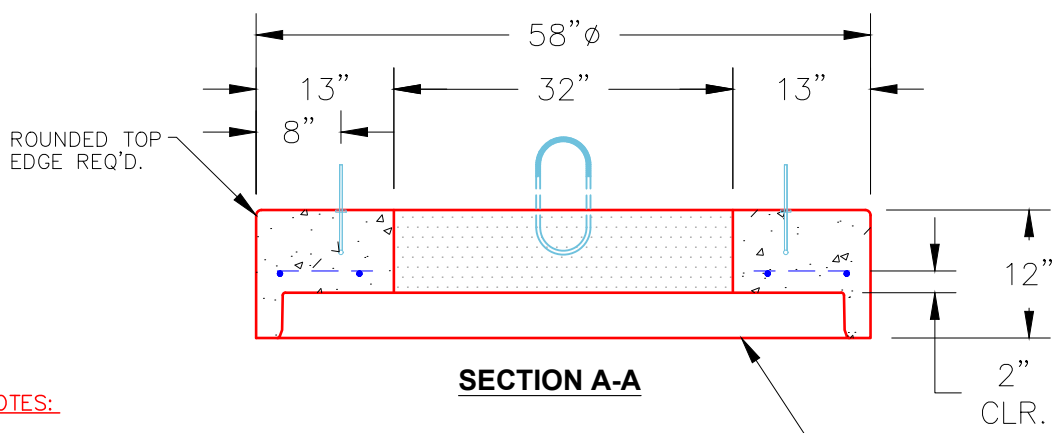
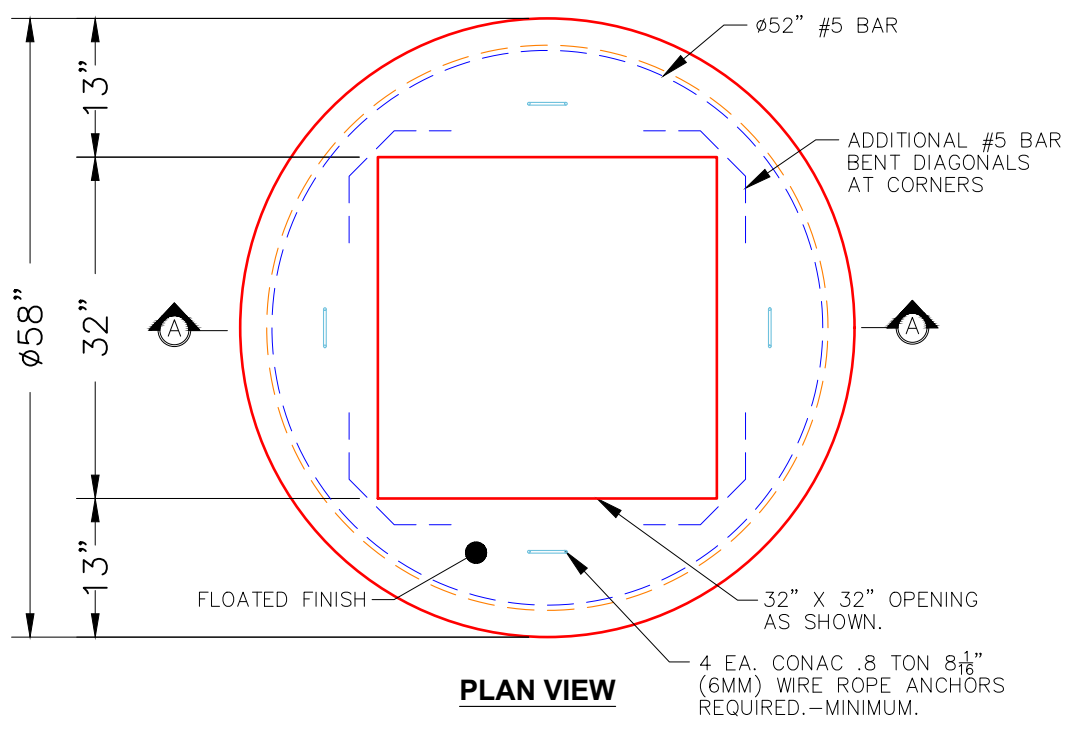
**MH FLAT TOP w/32"x32" Hole F/G**

- 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.



- 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): 1629 lb Volume (Net): 0.42cu.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 1:21:57 PM

Tech: Jared - F  
 PC: J. Jarvis



**Structure ID: S214**

**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)

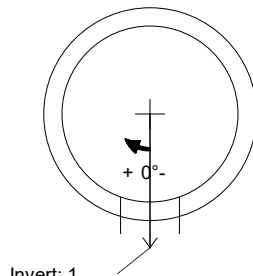
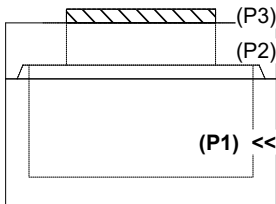
REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 454.5' Rim to Invert: 3' Slack: 0" Sump: 0" Step Position:

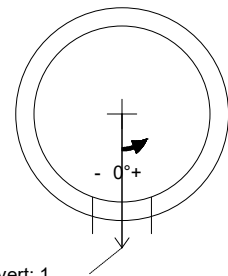
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (⌋)	Offset
Invert 1	451.5'	0°	0"	12" HDPE	14.5"	Hole 16	16"	16.312"	-1.25"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

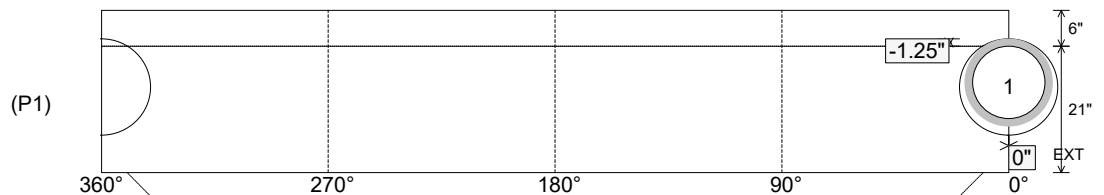


Invert: 1  
 Degree: 0°  
 Horz: 0"  
 Hole: 16"  
 Up(⌋): -1.25"



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 8:55:52 AM

Tech: J. Coppage

PC: A. Chambers



**Structure ID: SSMH-269**

**P1 MH048BA18**

**MH BASE**

- P5) 24" - CASTING HEIGHT - 7"
- P4) 24" - GRADE RING - 4"
- P3) 48" - ECC CONE w/ 24" HOLE NO STEP - 30"
- P2) 48" - MH RISER NO STEPS - 36"
- P1) 48" - MH BASE - 18"
- 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
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) 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\*\*

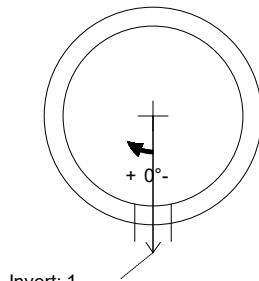
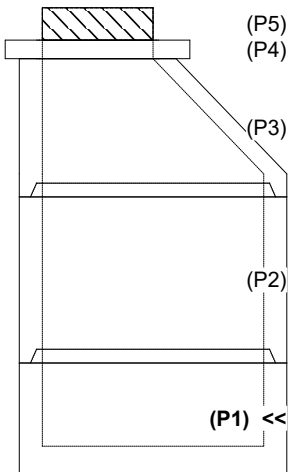
Structure Total: 8832 lb

Rim: 877.44' Rim to Invert: 7.84' Slack: 1.08" Sump: 2" Step Position:

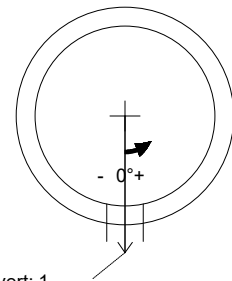
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	869.6'	0°	0"	8" PVC SDR35	8.5"	A-Lok 0285	9.75"	9.818"	1.125"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

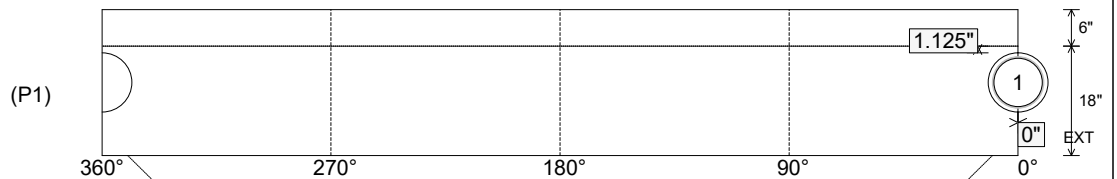


Invert: 1  
 Degree: 0°  
 Horz: 0"  
 Hole: 9.75"  
 Up( ): 1.125"



Invert: 1  
 Degree: 0°  
 Horz: 0"  
 Hole: 9.75"  
 Up( ): 1.125"

INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

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

Weight (Net): 2556 lb  
 Volume (Net): 0.65cu.yd

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

Plant: Beaver Dam

4/28/2026 8:55:52 AM

Tech: J. Coppage

PC: A. Chambers



**Structure ID: SSMH-269**

**P1 MH048BA18**

**MH BASE**

- P5) 24" - CASTING HEIGHT - 7"
- P4) 24" - GRADE RING - 4"
- P3) 48" - ECC CONE w/ 24" HOLE NO STEP - 30"
- P2) 48" - MH RISER NO STEPS - 36"
- P1) 48" - MH BASE - 18"
- 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
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) 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: 8832 lb

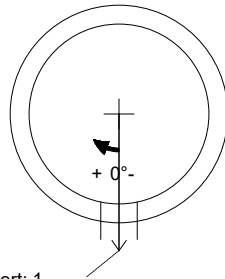
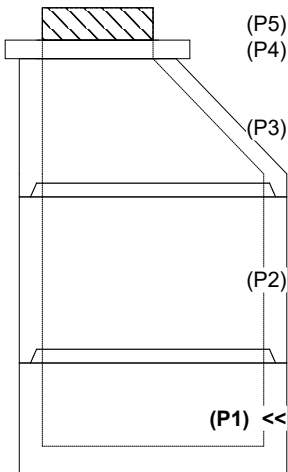
**INVERT CHANNEL DRAWING  
 FULL HEIGHT INVERT**

Rim: 877.44' Rim to Invert: 7.84' Slack: 1.08" Sump: 2" Step Position:

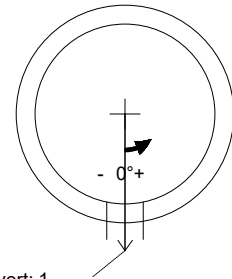
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	869.6'	0°	0"	8" PVC SDR35	8.5"	A-Lok 0285	9.75"	9.818"	1.125"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

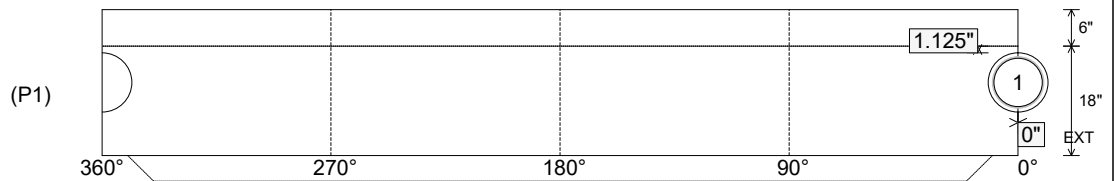


Invert: 1  
 Degree: 0°  
 Horz: 0"  
 Hole: 9.75"  
 Up( ): 1.125"



Invert: 1  
 Degree: 0°  
 Horz: 0"  
 Hole: 9.75"  
 Up( ): 1.125"

INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

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

Weight (Net): 2556 lb  
 Volume (Net): 0.65cu.yd

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

Plant: Beaver Dam

4/28/2026 8:57:07 AM

Tech: J. Copping

PC: A. Chambers



**Structure ID: SSMH-237**

**P2 MH048RS36S**

**MH RISER NO STEPS**

- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - ECC CONE w/ 24" HOLE NO STEP - 24"
- P2) 48" - MH RISER NO STEPS - 36"
- P1) 48" - MH BASE Custom Ht - 25"
- 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
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) A-Lok - 0285
- 1) A-Lok - 0200

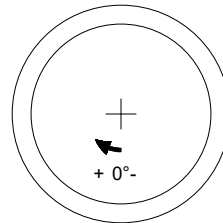
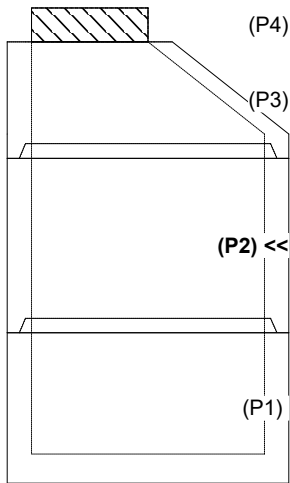
- Structure Notes:**
1. JR HOE MC-375 SELF SEALING SAN BY ICAST
  2. PER ASTM C478 SPECIFICATIONS.
  3. CONCRETE = 4,000 PSI AT 28 DAYS.
  4. REINFORCING PER ASTM A615 (GRADE 60).  
 - CONE (As .12)  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.
  5. \*\*NO STEPS\*\*

Structure Total: 8536 lb

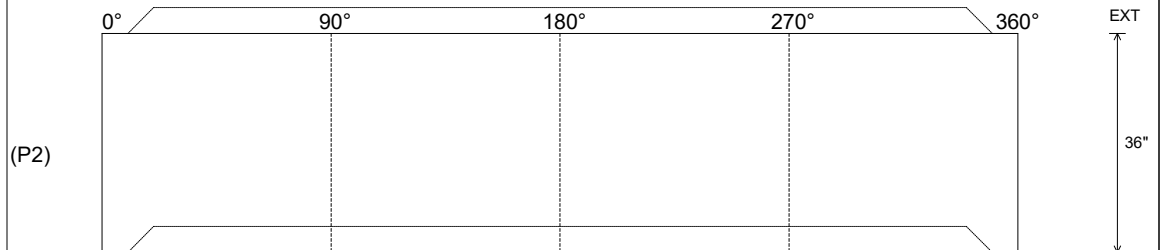
Rim: 868.7' Rim to Invert: 7.5' Slack: 0" Sump: 2" Step Position:

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): 36"  
 Height (Ext): 36"

Weight (Net): 2515 lb  
 Volume (Net): 0.64cu.yd

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

Plant: Beaver Dam  
 4/28/2026 8:56:27 AM

Tech: J. Coppage  
 PC: A. Chambers



**Structure ID: SSMH-197**

**P3 MH048CN42-S**

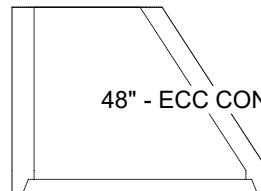
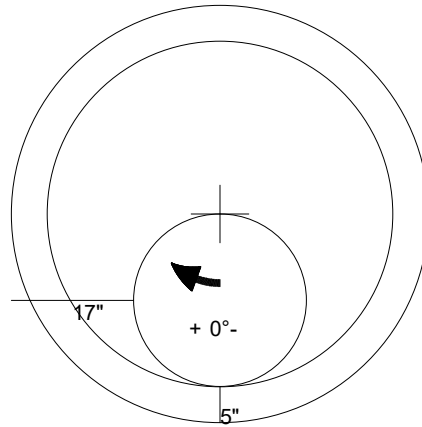
**ECC CONE w/ 24" HOLE NO STEP**

- P5) 24" - CASTING HEIGHT - 7"
- P4) 24" - GRADE RING - 4"
- P3) 48" - ECC CONE w/ 24" HOLE NO STEP - 42"
- P2) 48" - MH RISER NO STEPS - 72"
- P1) 48" - MH BASE w/FLANGE (08F/08EF) - 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
- 2) 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  
 270 lb  
 3000 lb  
 5030 lb  
 4501 lb  
 0 lb  
 0 lb  
 1440 lb  
 0 lb  
 2 lb

Structure Total: 14242 lb



48" - ECC CONE w/ 24" HOLE NO STEP - 42" - (P3)

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 42"

Weight (Net): 3000 lb  
 Volume (Net): 0.5cu.yd

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

Plant: Beaver Dam  
 4/28/2026 8:56:26 AM

Tech: J. Coppage  
 PC: A. Chambers



**Structure ID: SSMH-195**

**P3 MH048CN30-S**

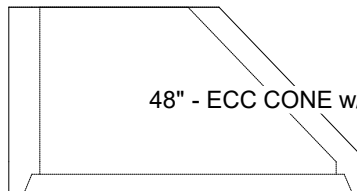
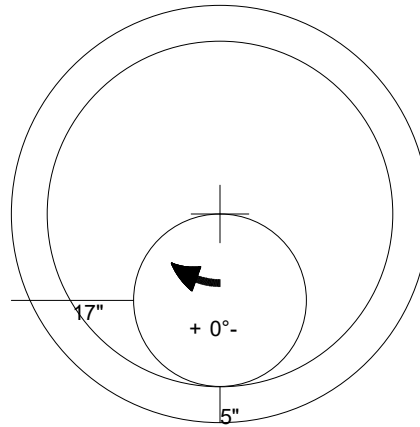
**ECC CONE w/ 24" HOLE NO STEP**

- P5) 24" - CASTING HEIGHT - 7"
- P4) 24" - GRADE RING - 3"
- P3) 48" - ECC CONE w/ 24" HOLE NO STEP - 30"
- P2) 48" - MH RISER NO STEPS - 48"
- P1) 48" - MH BASE - 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
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 0285
- 1) A-Lok - 0200

- 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  
 202 lb  
 2050 lb  
 3353 lb  
 2928 lb  
 0 lb  
 0 lb  
 1440 lb  
 0 lb  
 2 lb  
 1 lb

Structure Total: 9976 lb



48" - ECC CONE w/ 24" HOLE NO STEP - 30" - (P3)

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 30"

Weight (Net): 2050 lb  
 Volume (Net): 0.41cu.yd

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

Plant: 100  
 5/8/2026 11:22:11 AM

Tech: Jared-F  
 PC: C. Goff



**Structure ID: VV**

**P1 MH060BA54CDARED**

**MH BASE w/ConBlock-CDA Red T/n**

- P2) 60" - MH FLAT TOP w/36"x42" Hatch w/ConBlock-CDA Red F/G - 13"
- P1) 60" - MH BASE w/ConBlock-CDA Red T/n - 54"
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE CONBLOCK CDA RED
- 1) 60" - Conseal CS-102 1.00" (Double)
- 4) Hole - 8
- 1) Hole - 4

1993 lb  
 8259 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 Structure Total: 10251 lb

**Structure Notes:**  
 1. PER ASCTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,500 PSI AT 28 DAYS.  
 3. NO STEPS.  
 4. ADMIXTURE = CONBLOCK CDA RED.  
 5. ALUMINUM HATCH SUPPLIED BY OTHERS & CAST IN TOP SLAB BY ICAST. CENTERED LOCATION TO BE VERIFIED.

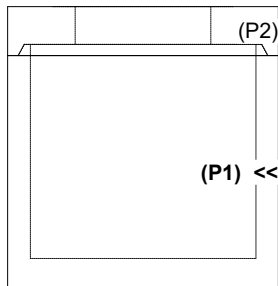
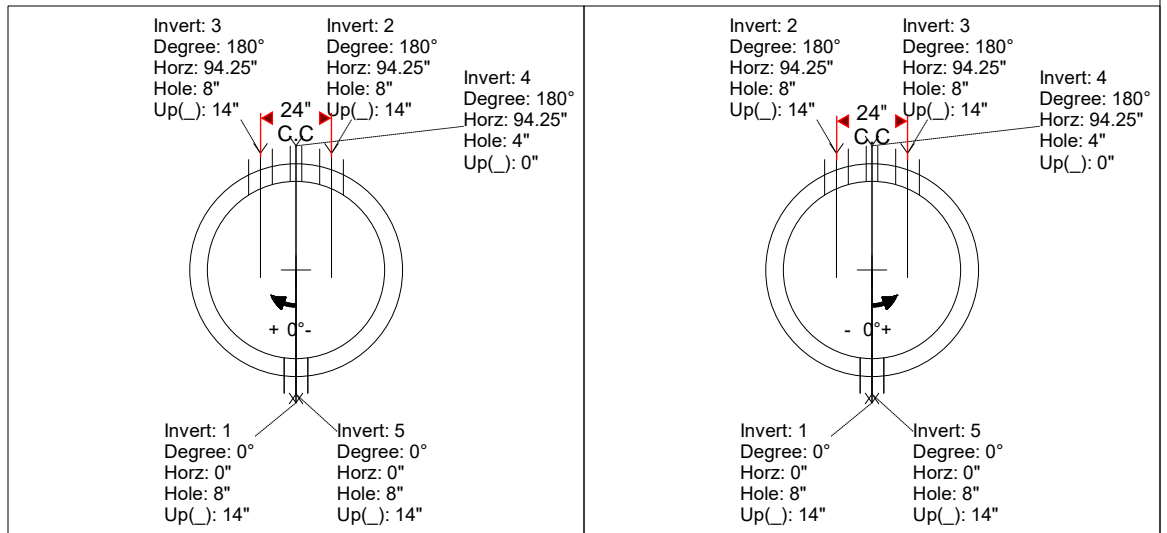
REINFORCING PER ASTM A615 (GRADE 60)  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - RISER/WALLS (As .18)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 565' Rim to Invert: 5.917' Slack: 5.004" Sump: 1" Step Position:

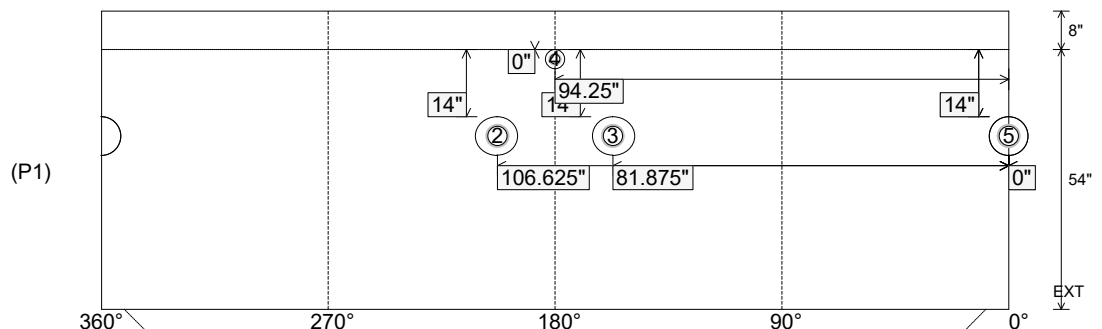
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	560.33'	0°	0"	4" DI	4.75"	Hole 8	8"	8.024"	14"	0"
Invert 2	560.33'	180°	125.375"	4" DI	4.75"	Hole 8	8"	8.778"	14"	12"
Invert 3	560.33'	180°	100.875"	4" DI	4.75"	Hole 8	8"	8.778"	14"	-12"
Invert 4	559.083'	180°	113.125"	2" DI	2.5"	Hole 4	4"	4.003"	0"	0"
Invert 5	560.33'	0°	0"	4" DI	4.75"	Hole 8	8"	8.024"	14"	0"
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 6"  
 Floor Height: 8"

Height (Int): 54"  
 Height (Ext): 62"

Weight (Net): 8259 lb  
 Volume (Net): 2.11cu.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 1:23:03 PM

Tech: Jared - F

PC: J. Jarvis



**Structure ID: S211**

**P3 MH060LD13-32SQ**

**MH FLAT TOP w/32"x32" Hole F/G**

- P4) 32" x 32" - CASTING HEIGHT - 3"
- P3) 60" - MH FLAT TOP w/32"x32" Hole F/G - 13"
- P2) 60" - MH RISER T/G - 18"
- P1) 60" - MH BASE Custom Ht T/n - 64"
- 1) CASTING - HOE 595 F/G
- 2) 60" - Conseal CS-102 1.00"
- 1) 32" x 32" - Conseal CS-102 1.00"
- 2) Hole - 30
- 1) Hole - 20
- 1) Hole - 8

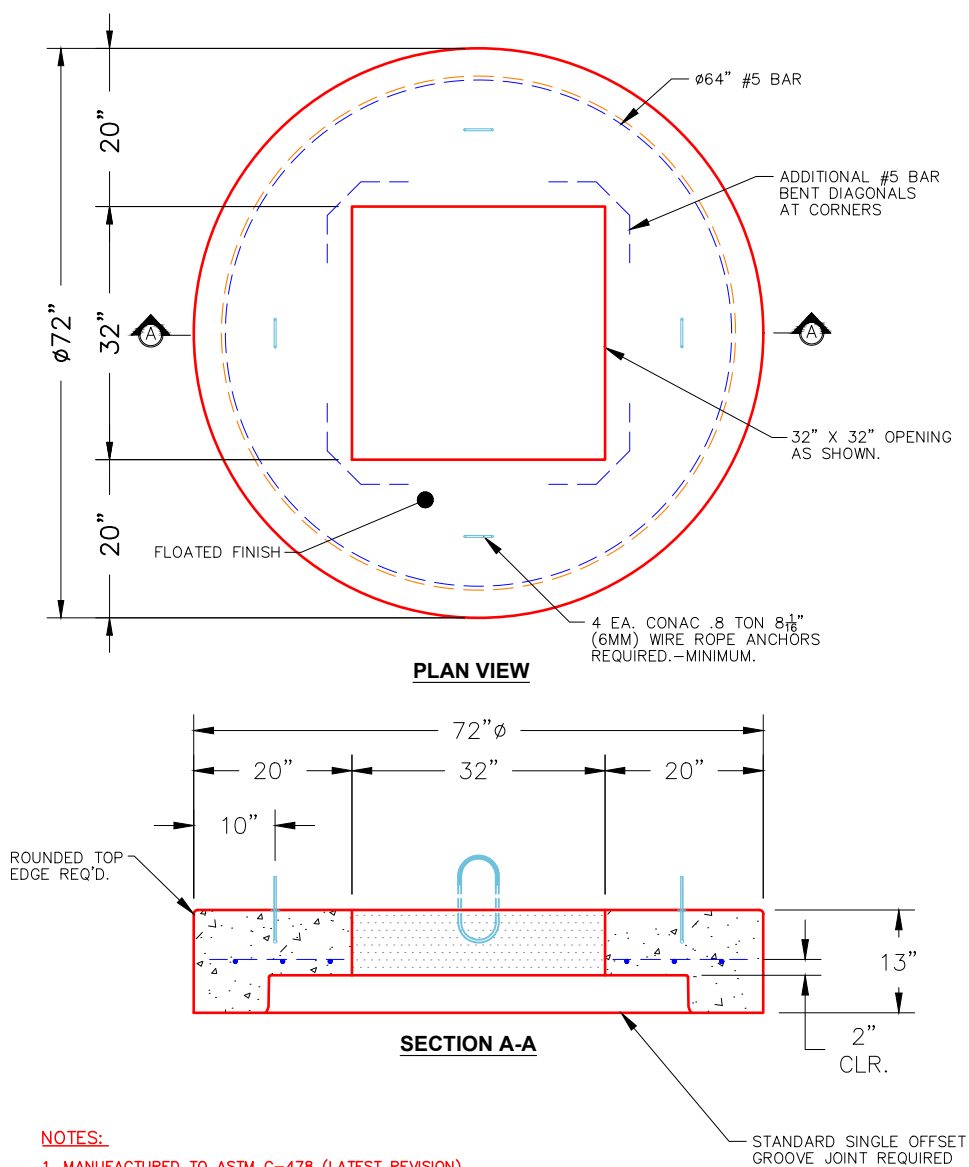
0 lb  
 2369 lb  
 1854 lb  
 8514 lb  
 376 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 13112 lb

Structure Total:

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 .18)  
 - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.



Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 13"

Weight (Net): 2369 lb  
 Volume (Net): 0.6cu.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 1:21:09 PM

PC: Celina Goff



**Structure ID: 2301531**

**P1 MH060BA72**

**MH BASE T/n**

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

0 lb  
 2252 lb  
 2204 lb  
 8895 lb  
 2692 lb  
 0 lb  
 0 lb  
 2 lb  
 0 lb  
 -----  
 Structure Total: 16045 lb

Structure Notes:

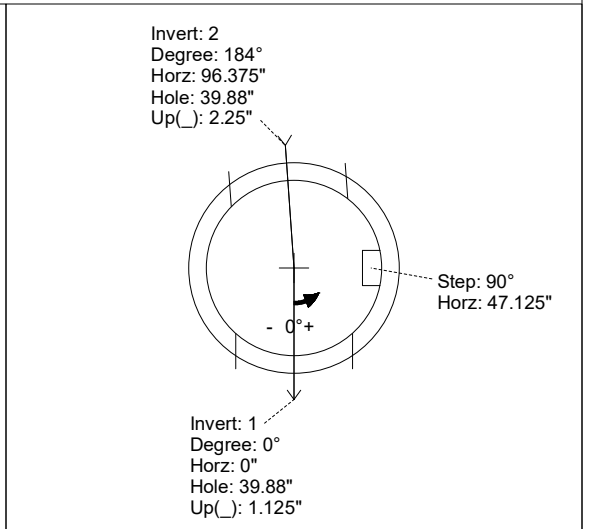
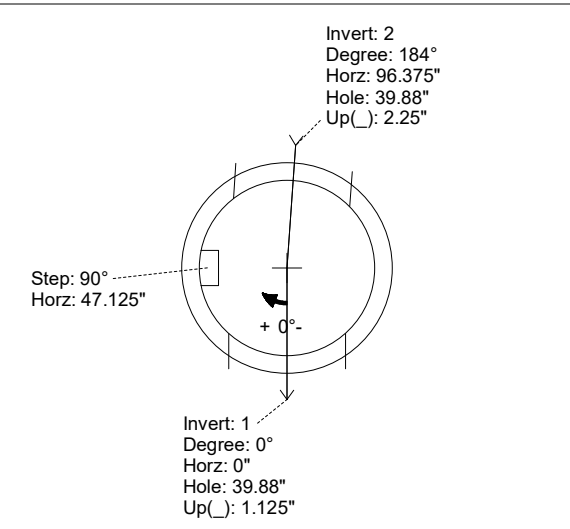
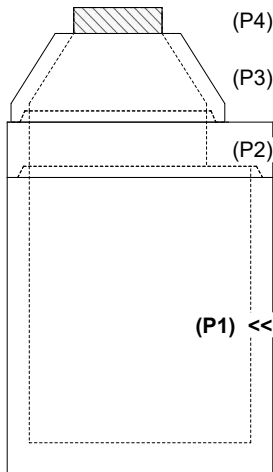
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT:
  - WALLS: PER ASTM A615 - DOUBLE MAT
  - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. INVERT CHANNEL REQUIRED
5. STEPS AT 90 DEGREES
6. 7" CASTING SUPPLIED BY OTHERS

Rim: 739.2' Rim to Invert: 9.73' Slack: 1.76" Sump: 3" Step Position: 90°

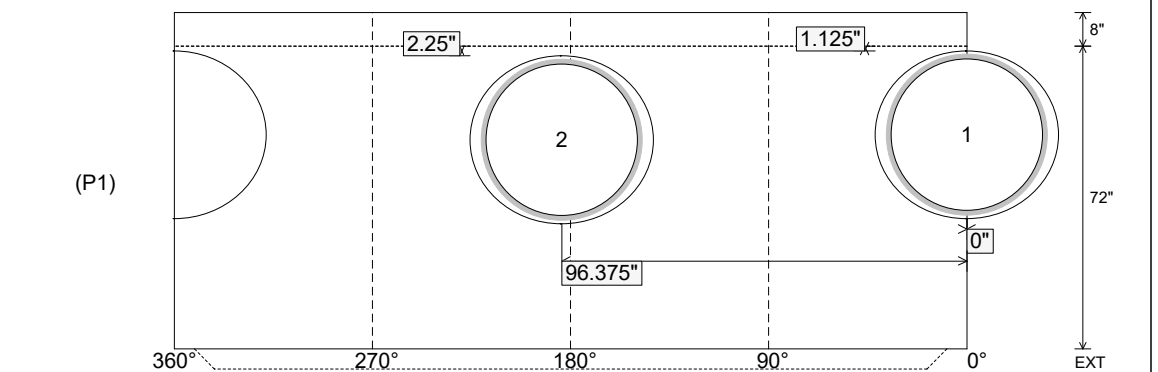
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	729.47'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	729.57'	184°	115.625"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"
Invert 3										
Invert 4										
Invert 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: 6"  
 Floor Height: 8"

Height (Int): 72"  
 Height (Ext): 80"

Weight (Net): 8895 lb  
 Volume (Net): 2.27cu.yd

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

Plant: 100

3/20/2026 1:21:09 PM

Tech: J. Horsley - A

PC: Celina Goff



**Structure ID: 2301531**

**P1 MH060BA72**

**MH BASE T/n**

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

0 lb  
 2252 lb  
 2204 lb  
 8895 lb  
 2692 lb  
 0 lb  
 0 lb  
 2 lb  
 0 lb  
 -----  
 Structure Total: 16045 lb

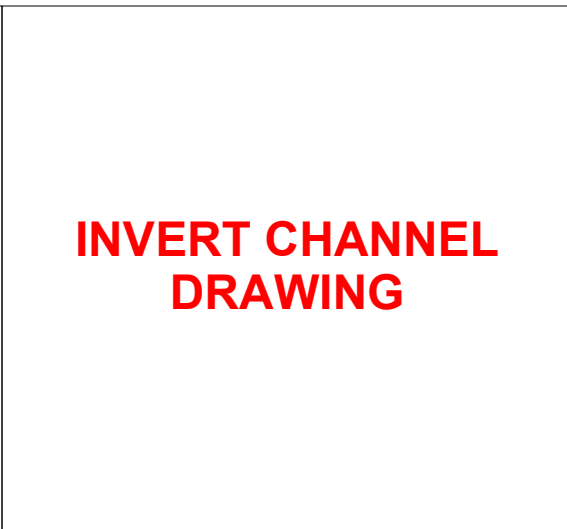
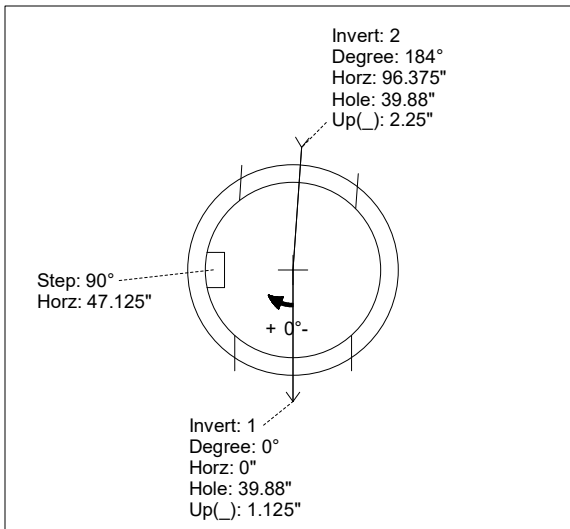
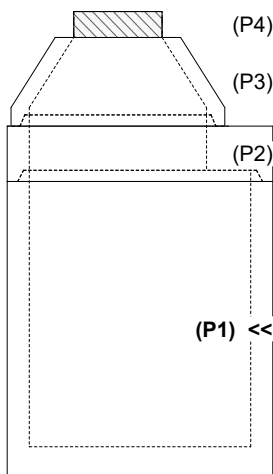
- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT:
    - WALLS: PER ASTM A615 - DOUBLE MAT
    - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  4. INVERT CHANNEL REQUIRED
  5. STEPS AT 90 DEGREES
  6. 7" CASTING SUPPLIED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

Rim: 739.2' Rim to Invert: 9.73' Slack: 1.76" Sump: 3" Step Position: 90°

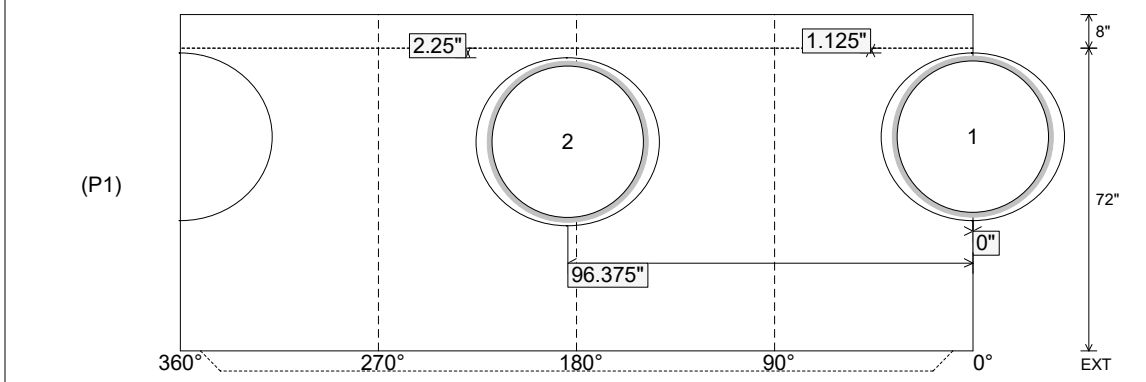
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	729.47'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	729.57'	184°	115.625"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"
Invert 3										
Invert 4										
Invert 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: 6"  
 Floor Height: 8"

Height (Int): 72"  
 Height (Ext): 80"

Weight (Net): 8895 lb  
 Volume (Net): 2.27cu.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 2:14:23 PM

PC: Celina Goff



**Structure ID: 2301538**

**P2 MH060RSVF-D**

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

- 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

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615
4. STEPS AT 200 DEGREES
5. 7" CASTING SUPPLIED BY OTHERS
6. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST

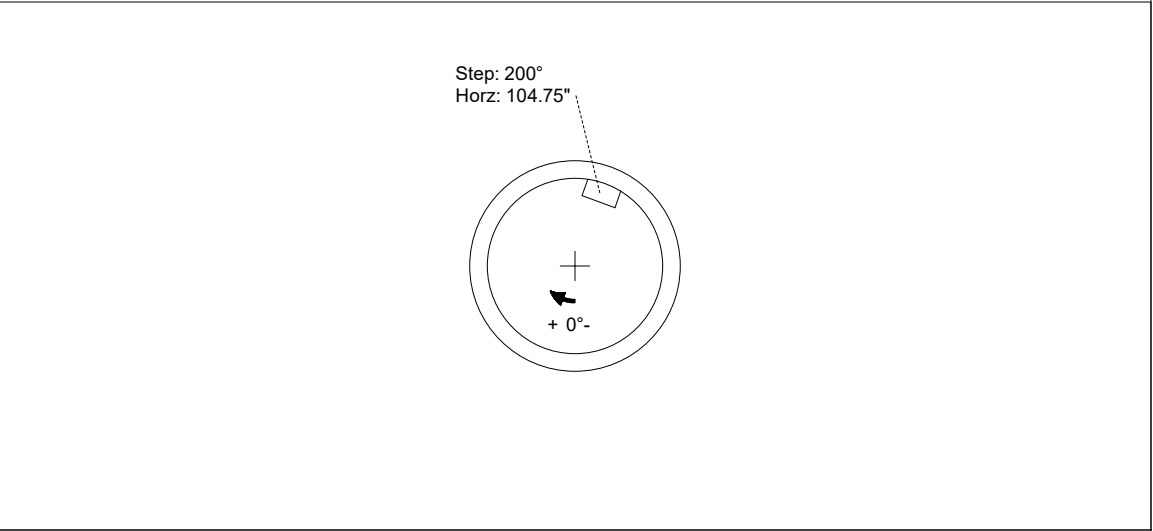
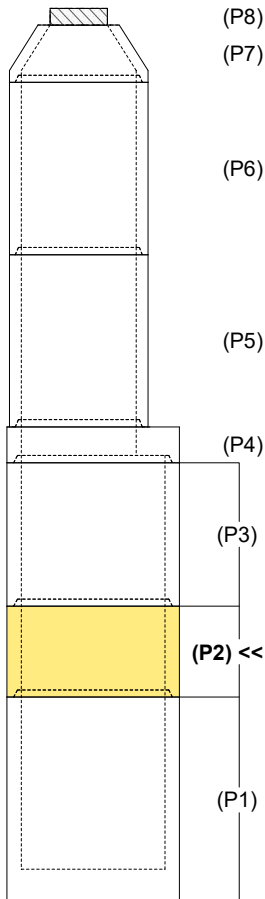
Structure Total: 49939 lb

**FIRST POUR (RISER): 3,967 LBS**  
**SECOND POUR (DROP): 1,634 LBS**

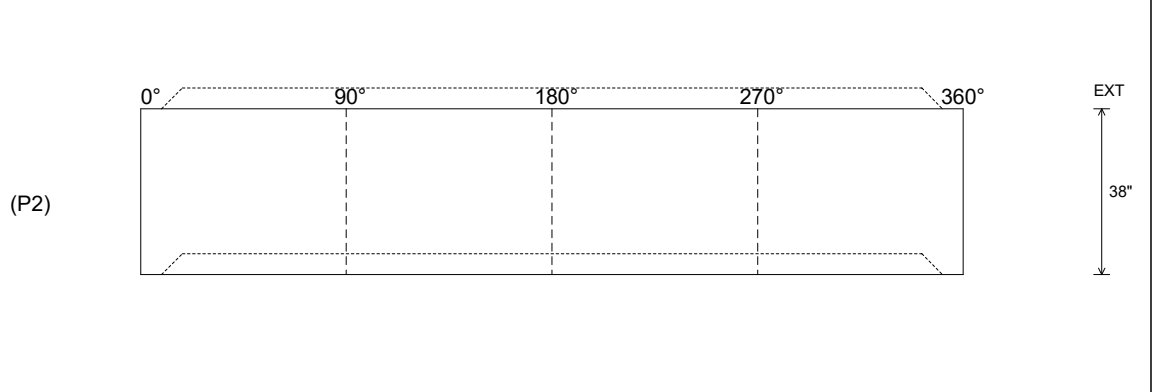
Rim: 762.81' Rim to Invert: 29.97' Slack: 2.64" Sump: 3" Step Position: 200°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1										
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: 6"  
Floor Height: 0"

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

Weight (Net): 3967 lb  
Volume (Net): 1.01cu.yd

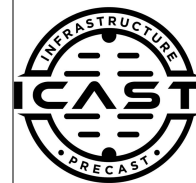
Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements  
 Job Location: Fort Mitchell, KY 41017  
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/26/2026 2:14:23 PM

PC: Celina Goff



**Structure ID: 2301538**

**P2 MH060RSVF-D**

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

- 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. STEPS AT 200 DEGREES
5. 7" CASTING SUPPLIED BY OTHERS
6. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST
7. ADD 8" SDR 35 DROP AT 259°

Structure Total: 49939 lb

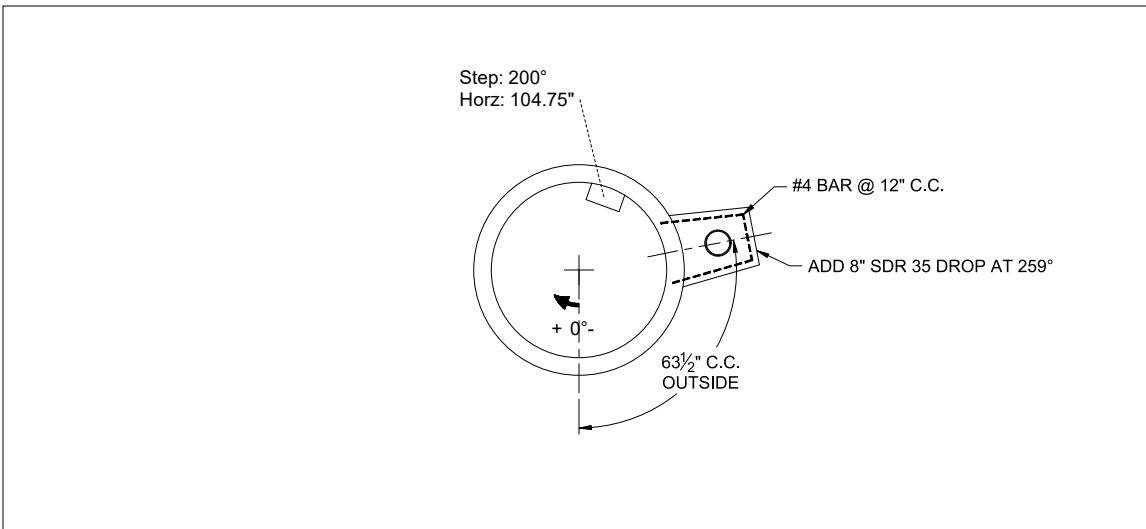
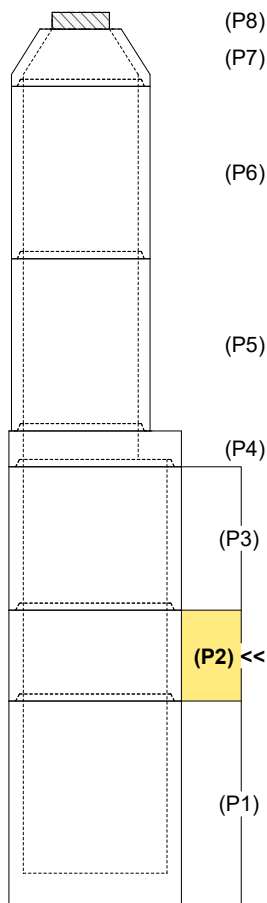
**FIRST POUR (RISER): 3,967 LBS**

**SECOND POUR (DROP): 1,634 LBS**

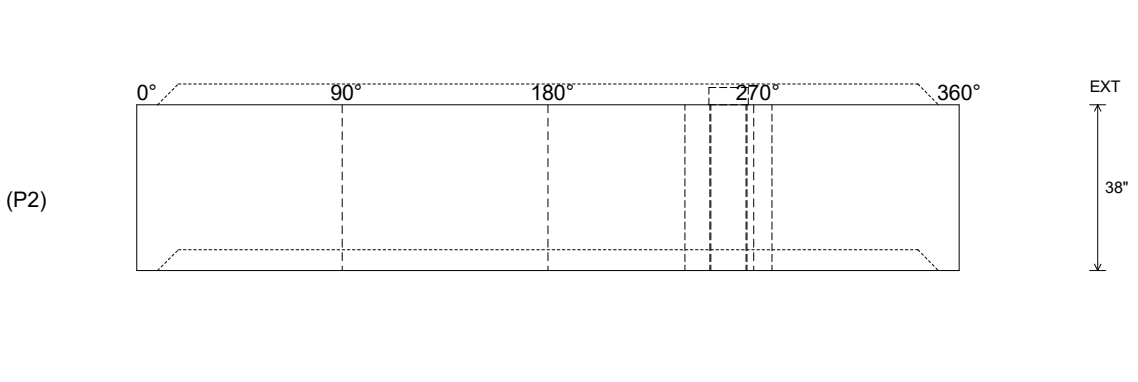
Rim: 762.81' Rim to Invert: 29.97' Slack: 2.64" Sump: 3" Step Position: 200°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (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: 6" Floor Height: 0"	Height (Int): 38" Height (Ext): 38"	Weight (Net): 3967 lb Volume (Net): 1.01cu.yd
----------------------------------	------------------------------------	--	--	--

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

Plant: Beaver Dam  
 4/23/2026 11:53:52 AM

Tech: S. Felletter  
 PC: S. Goff



**Structure ID: 20-CS-8**

**P2 MH096RSVF**

**MH RISER Custom Ht T/G**

- P5) 24" - CASTING HEIGHT - 0"
- P4) 96" - MH FLAT TOP SPEC. (2 - 24"Ø F&G) F/G - 17"
- P3) 96" - MH RISER T/G - 36"
- P2) 96" - MH RISER Custom Ht T/G - 82"
- P1) 96" - MH MONOBASE 13F, Custom Ht T/n - 24"
- 1) CVSTENCILING
- 1) ASSEMBLY REQUIRED
- 3) 96" - Conseal CS-102 1.00"
- 2) Hole - 24

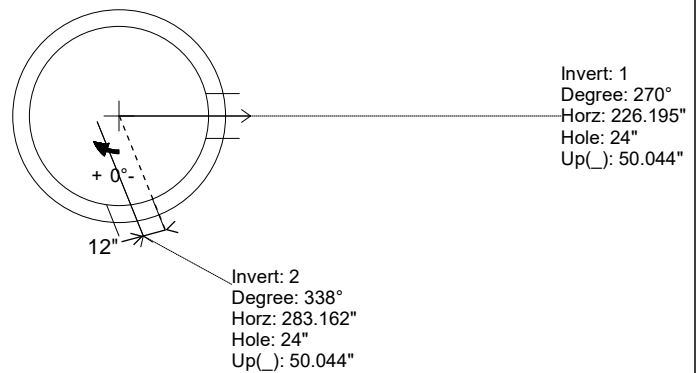
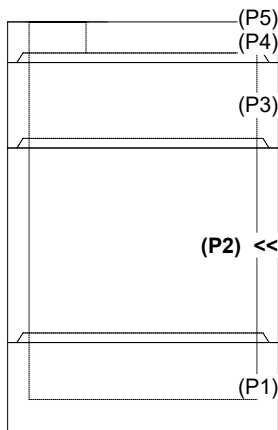
0 lb  
 10017 lb  
 8968 lb  
 19728 lb  
 17113 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 Structure Total: 55826 lb

**Structure Notes:**  
 4" CASTING BY OTHERS  
 CASTING FRAMES TO BE CAST INTO TOP SLAB  
 LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE  
 ICAST TO INSTALL THE INTERNALS  
 CONTECH'S LOGO AS WELL AS THE INLET AND OUTLET MUST BE STENCILED ONTO THE STRUCTURE

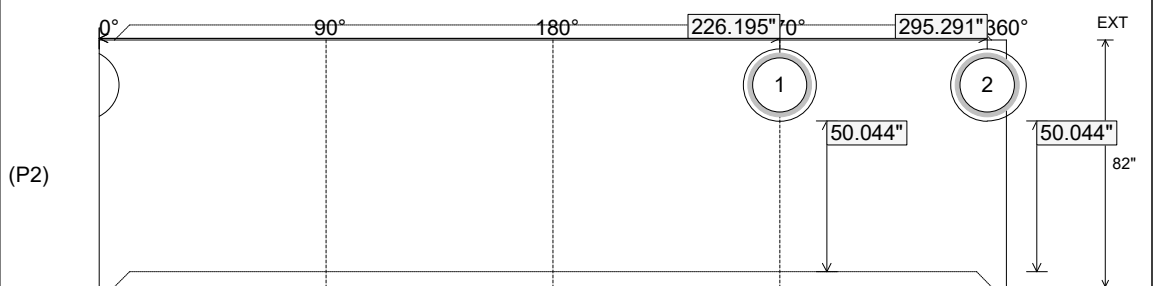
Rim: 802.25' Rim to Invert: 6.4' Slack: -0.156" Sump: 82.044" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	795.85'	270°	268.606"	18" HDPE	21.2"	Hole 24	24"	24.257"	50.044"	0"
Invert 2	795.85'	338°	348.346"	18" HDPE	21.2"	Hole 24	24"	25.133"	50.044"	12"
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: 9" Floor Height: 0"	Height (Int): 82" Height (Ext): 82"	Weight (Net): 19728 lb Volume (Net): 5.04cu.yd
----------------------------------	------------------------------------	--	--	---



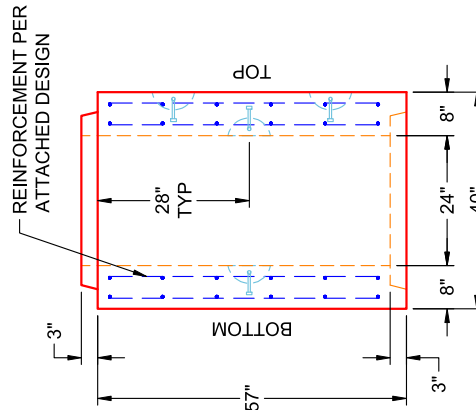
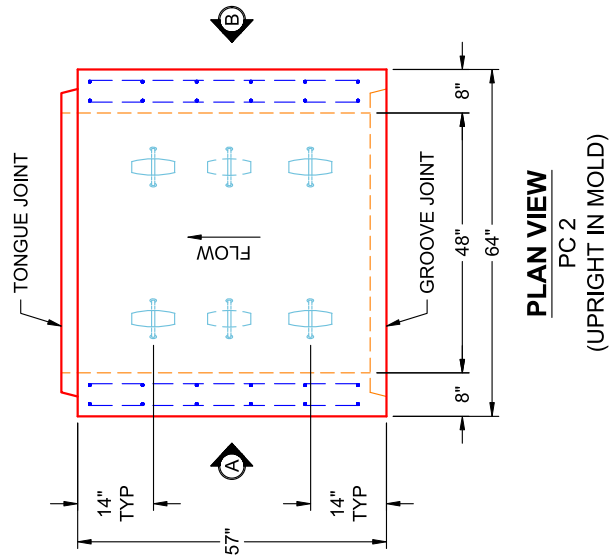
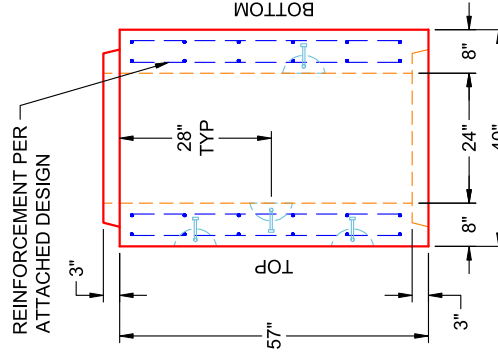
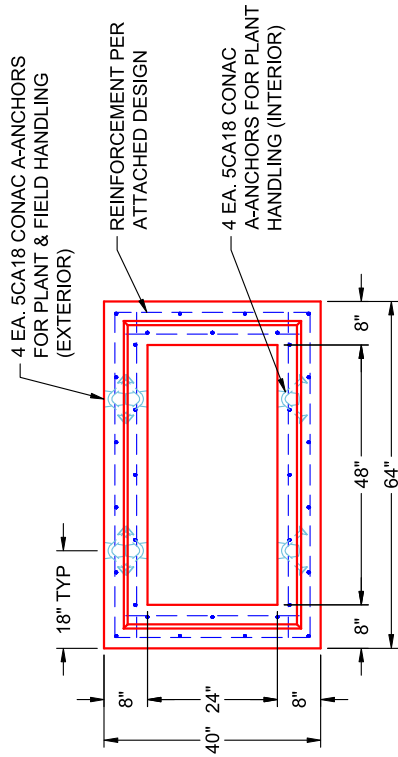
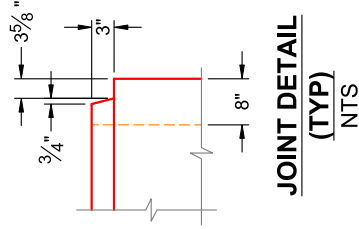
**Structure ID: BC 4 x 2 (PC 2)**

**P1 BC048024-08WLF**

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



**COMPONENT ISOMETRIC VIEW**



- 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 (57" LONG SECTION = 6,734 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

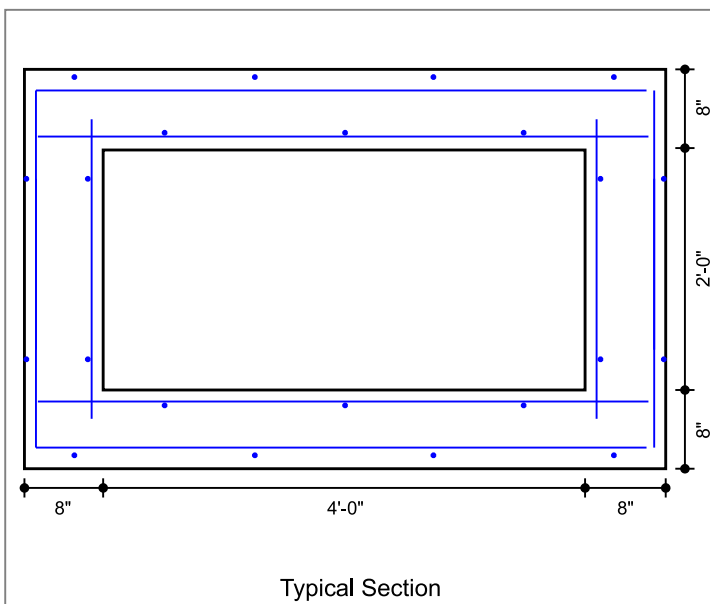
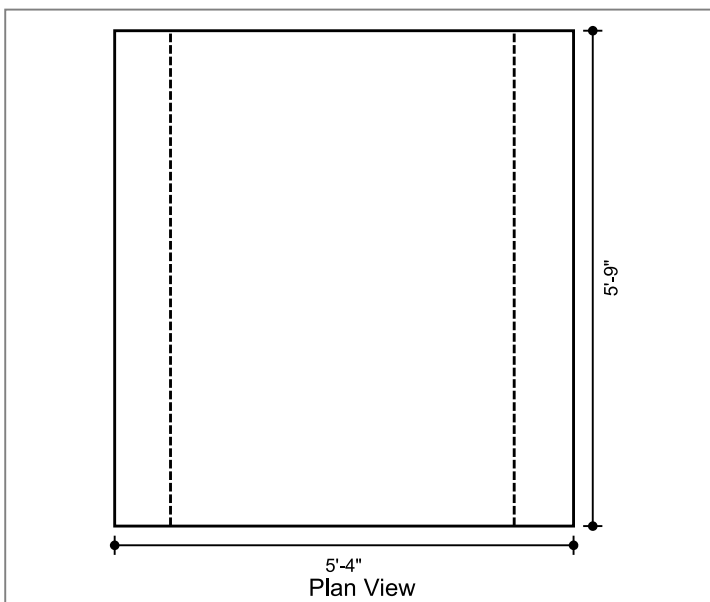
Inventory Rating: NaN  
 Operating Rating: NaN

## 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

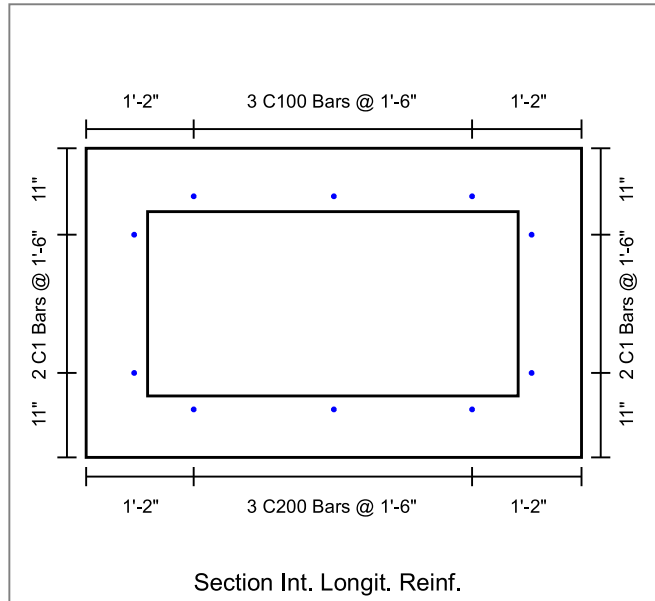
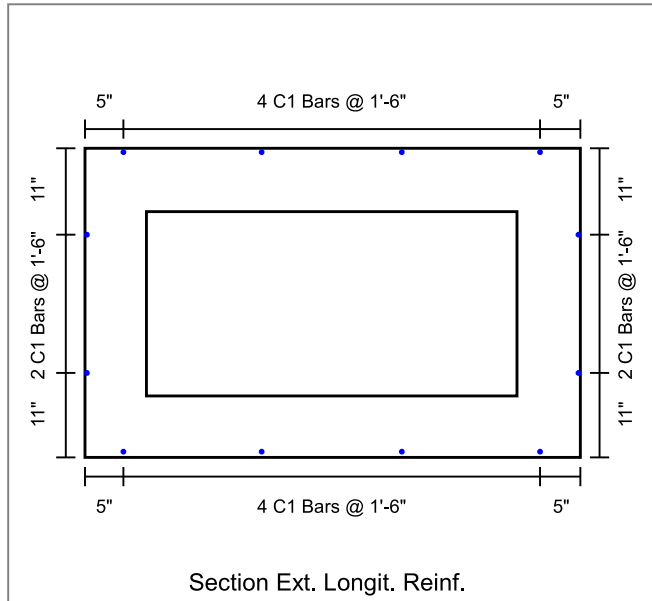
File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

## 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

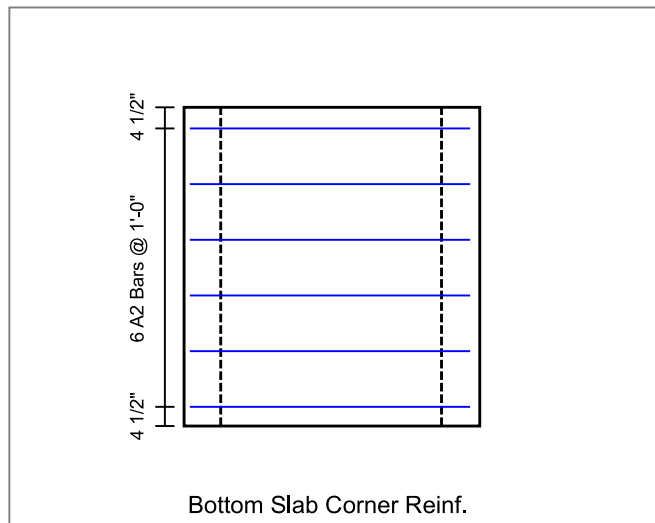
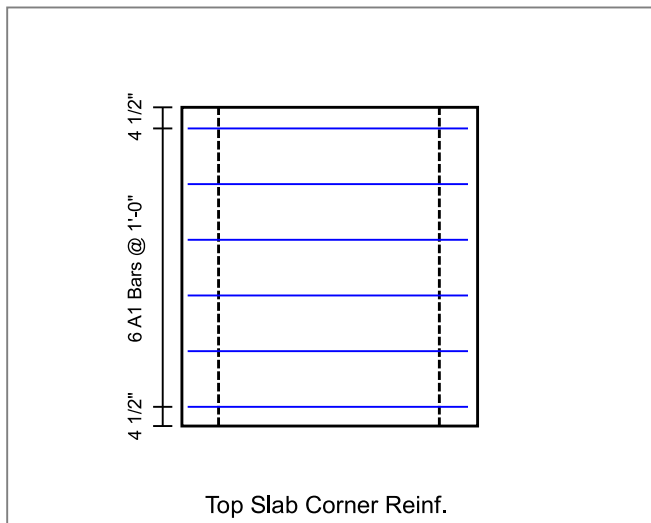
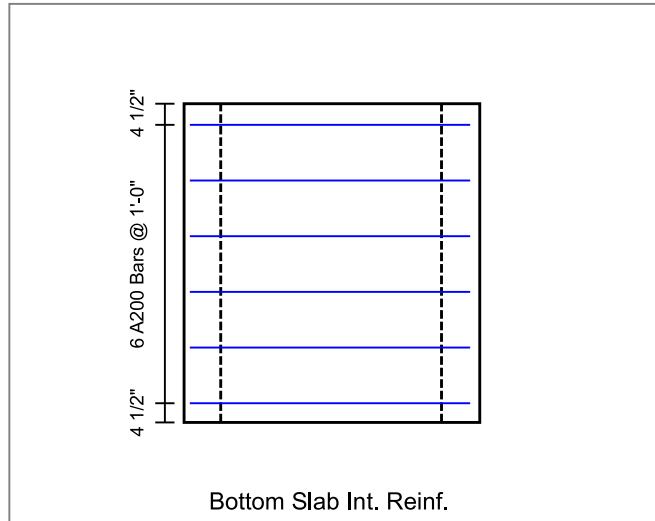
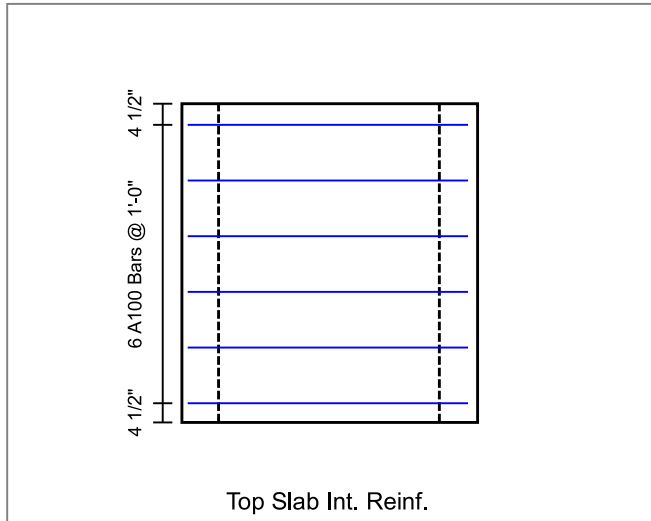
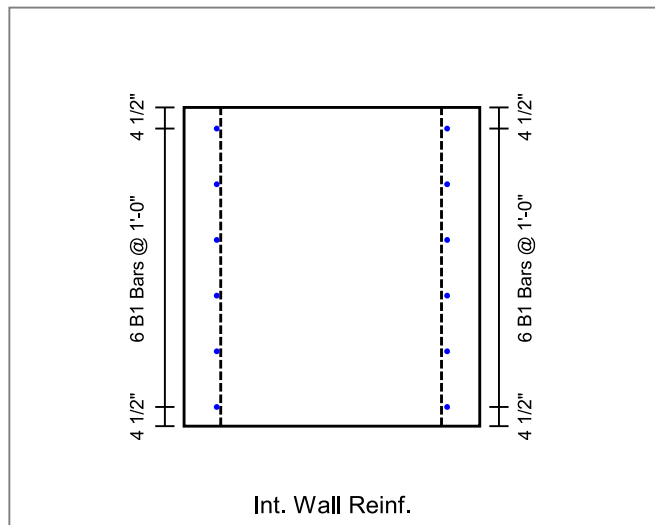
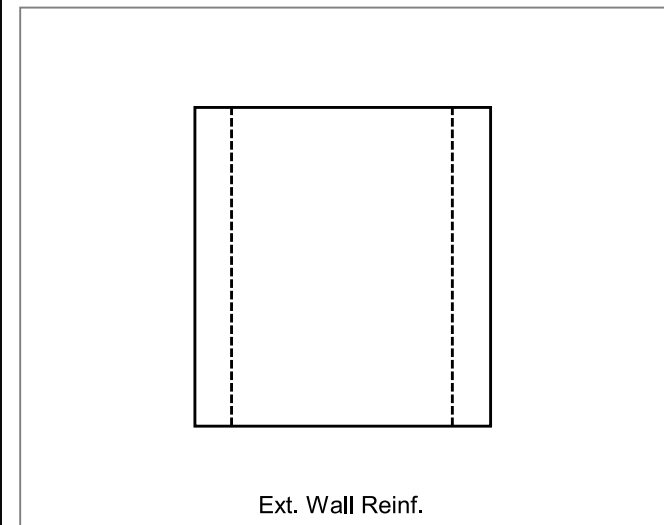
Project : Alcoa Outfall

Client: Bowen Engineering Co

Task :

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

Page 3 of 3



Job Name: 25-2511B - Blue Sky Sec 1 (Storm)	Plant: 100	Tech: J. Horsley - F
Job Location: Clarksville, TN	11/17/2025 5:01:54 PM	PC: A. Chambers
Contractor: Byard Construction, LLC		

**Structure ID: Q**

**P1 BX3648-08BAVF**

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

P3) 24" x 36" - CASTING HEIGHT - 6"	0 lb
P2) 36" x 48" - BX FLAT LID 8inW w/24"x36" HOLE F/F - 8"	1654 lb
P1) 36" x 48" - BOX BASE 8inW, 8inF, Variable Ht F/n - 41"	6028 lb
1) Conseal CS-102 1.00" (Single)	0 lb
1) CASTING - JBS 3080-V SET (F/G/H)	500 lb
1) 36" x 48" - SGL 1"x14.5' Butyl	0 lb
1) Hole - 38	0 lb
2) Hole - 30	0 lb
<b>Structure Total:</b>	<b>8182 lb</b>

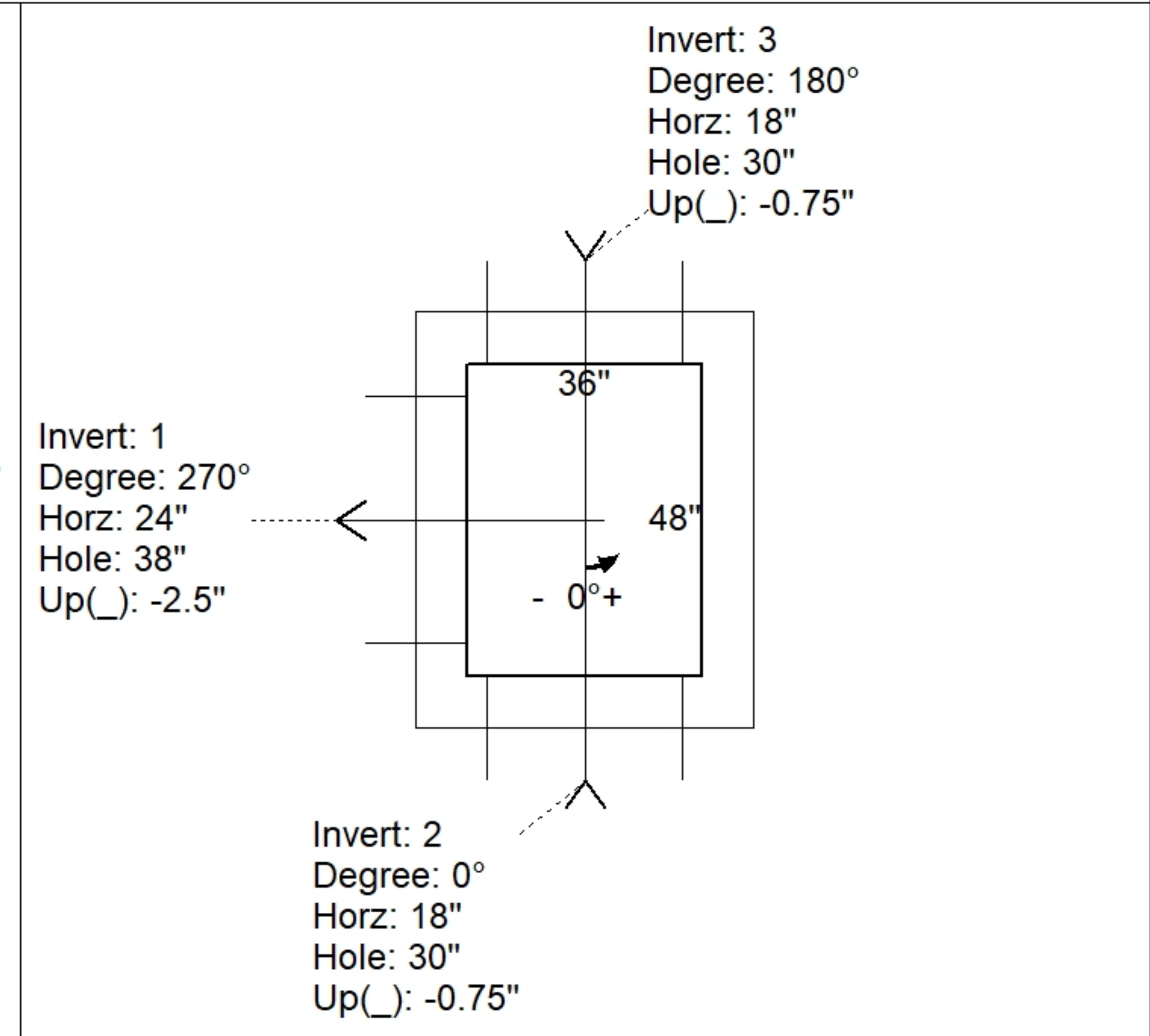
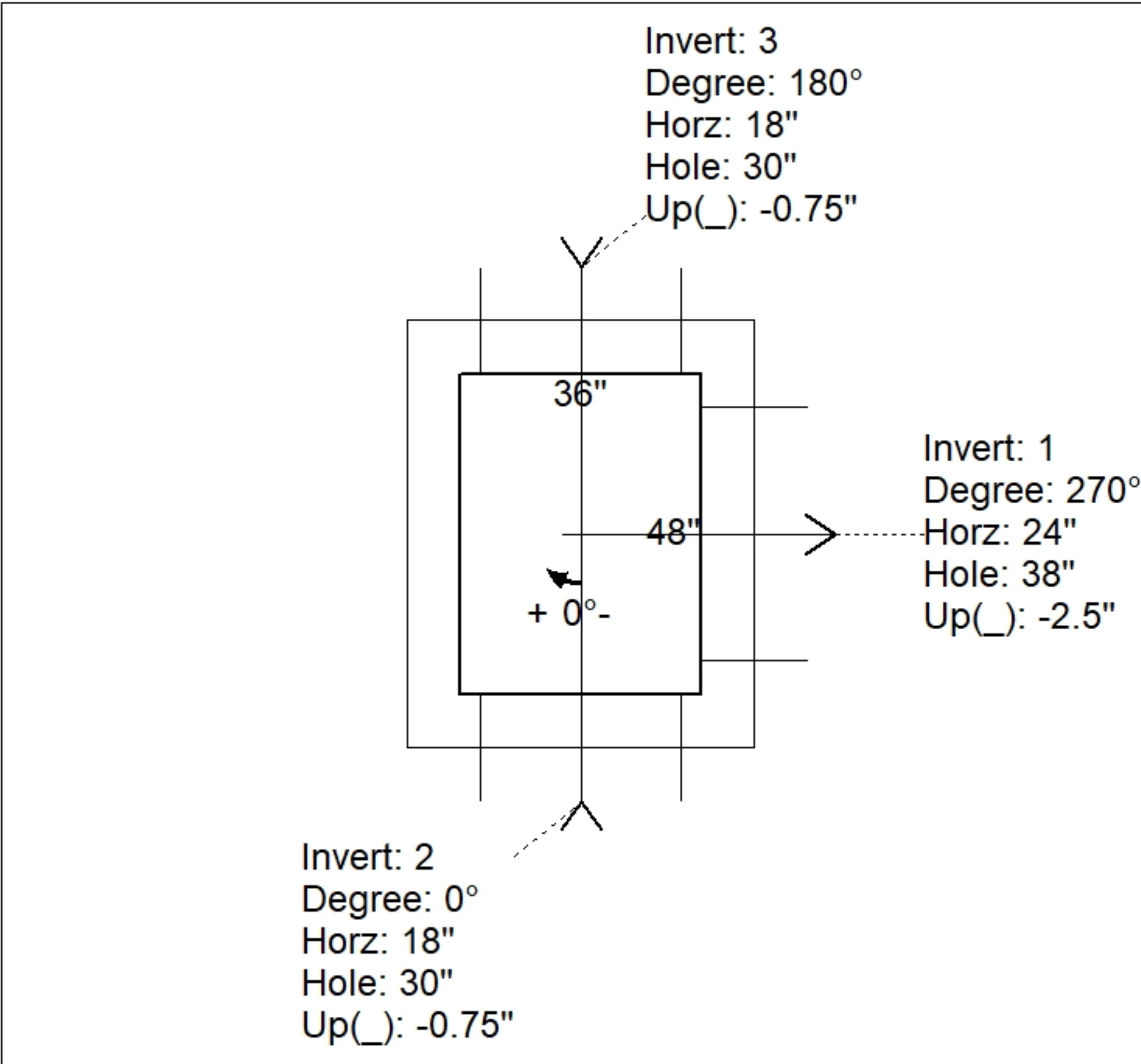
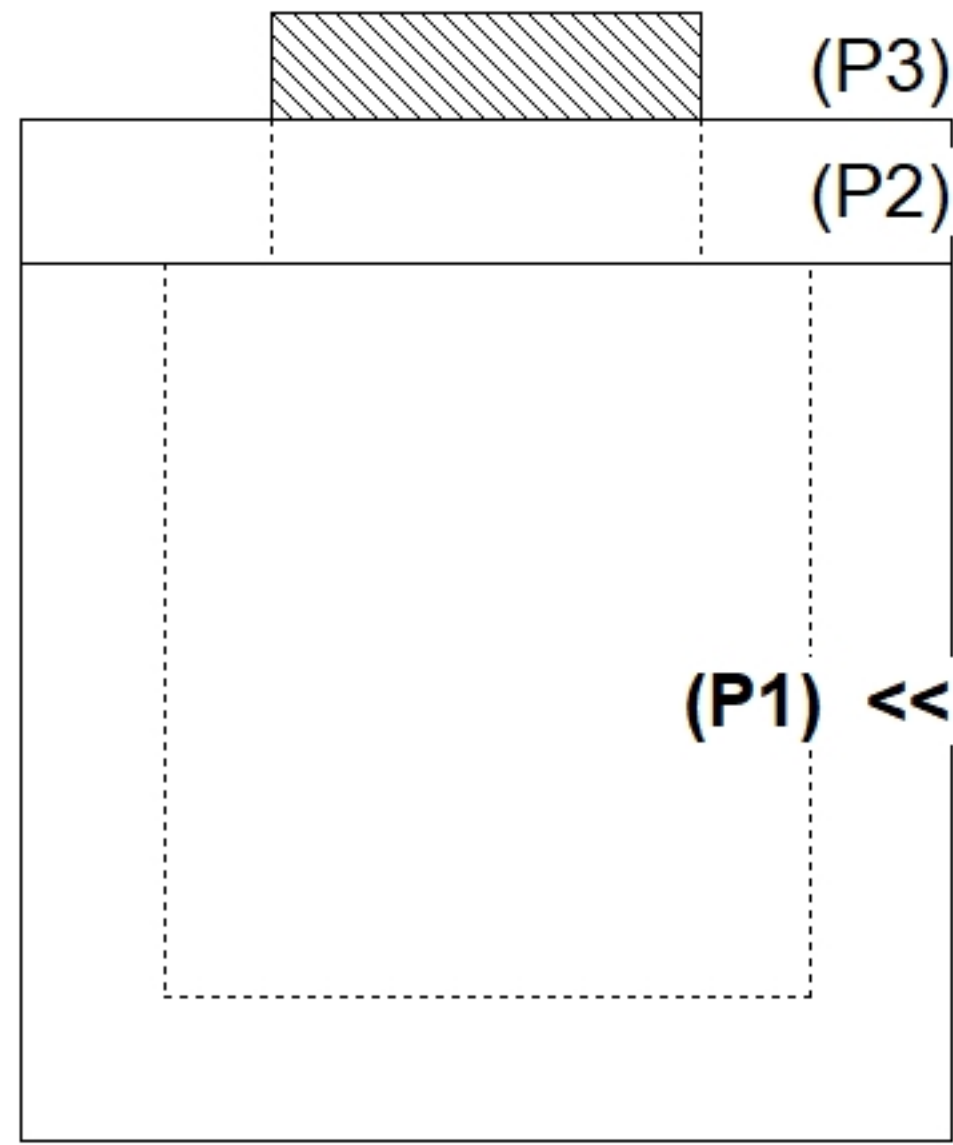
**Structure Notes:**  
 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO STEPS AND NO INVERT CHANNEL.  
 4. CASTING BY I-CAST (JBS 3080-V F/G/H).  
  
 REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 503.32' Rim to Invert: 4.6' Slack: 0.2" Sump: 0" Step Position:

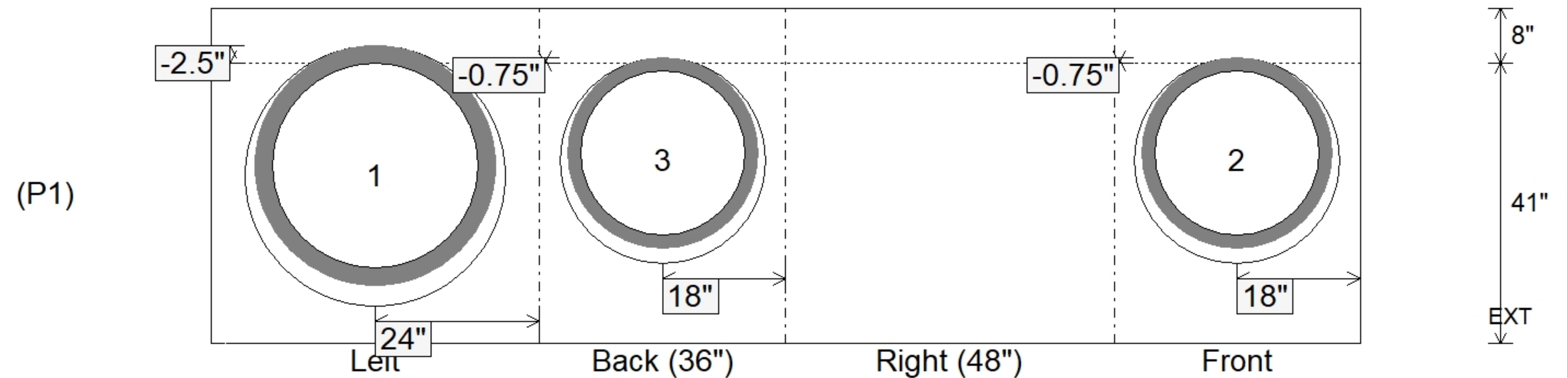
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	498.72'	270°	32"	30" HDPE	35.1"	Hole 38	38"	38"	-2.5"	0"
Invert 2	498.82'	0°	26"	24" HDPE	27.8"	Hole 30	30"	30"	-0.75"	0"
Invert 3	498.82'	180°	26"	24" HDPE	27.8"	Hole 30	30"	30"	-0.75"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Flat	Wall Thickness: 8"	Height (Int): 41"	Weight (Net): 6028 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 8"	Height (Ext): 49"	Volume (Net): 1.54cu.yd

Job Name: 25-2511B - Blue Sky Sec 1 (Storm)	Plant: 100	Tech: J. Horsley - F
Job Location: Clarksville, TN	11/19/2025 3:08:09 PM	PC: A. Chambers
Contractor: Byard Construction, LLC		

**Structure ID: B**

**P1 BX28108-06W06F-BAVF**

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

- P2) 28" x 108" - CASTING HEIGHT (CI TRPL) - 6"
- P1) 28" x 108" - BOX BASE 6inW, 6inF, Variable Ht F/n - 38"
- 1) Conseal CS-102 1.00" (Single)
- 3) CASTING - JBS 3080-V SET (F/G/H)
- 2) Hole - 24

0 lb  
7624 lb  
0 lb  
1500 lb  
0 lb  
-----  
Structure Total: 9124 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 I-CAST (3 ea. - 3080-V SET 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.

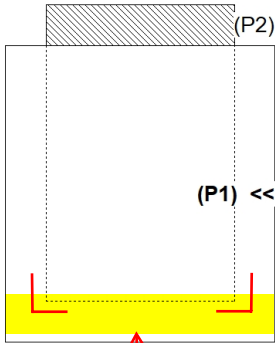
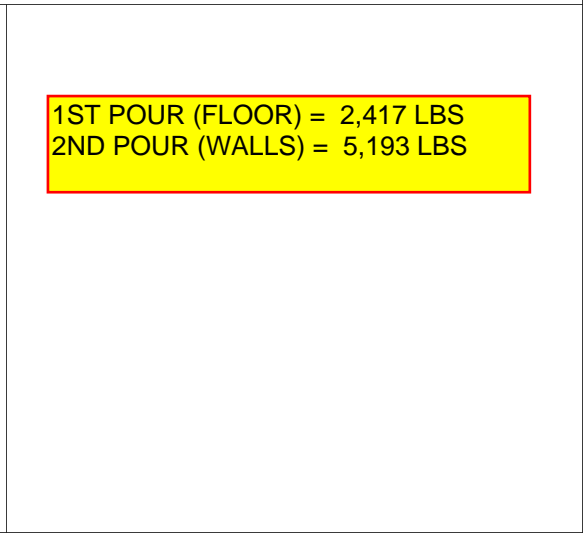
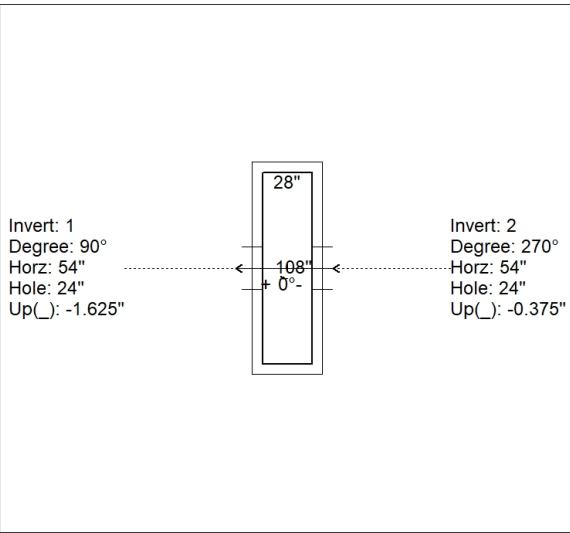
Rim: 519.01' Rim to Invert: 3.74' Slack: 0.88" Sump: 0" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	515.27'	90°	60"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"
Invert 2	515.37'	270°	60"	18" HDPE	21.2"	Hole 24	24"	24"	-0.375"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

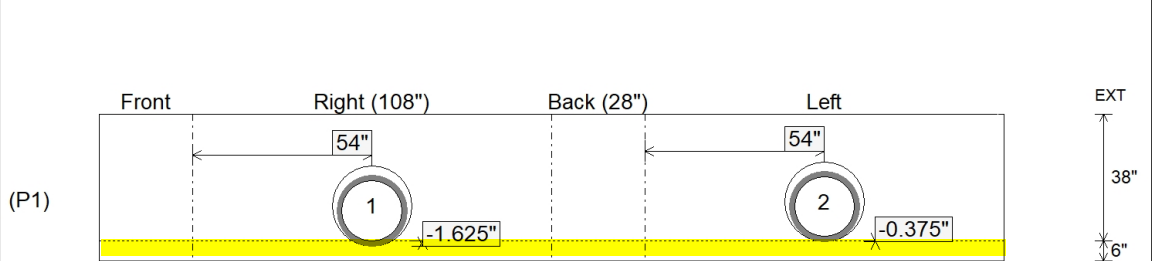
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

1ST POUR (FLOOR) = 2,417 LBS  
2ND POUR (WALLS) = 5,193 LBS



INSIDE WALL DIMENSIONS



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

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 6" Floor Height: 6"	Height (Int): 38" Height (Ext): 44"	Weight (Net): 7624 lb Volume (Net): 1.95cu.yd
----------------------------------	-------------------------------	--	--	--

Job Name: 25-2511B - Blue Sky Sec 1 (Storm)	Plant: 100	Tech: J. Horsley - F
Job Location: Clarksville, TN	11/19/2025 3:08:09 PM	PC: A. Chambers
Contractor: Byard Construction, LLC		

**Structure ID: B**

**P1A BX28108-06W06F-BAVF**

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

- P2) 28" x 108" - CASTING HEIGHT (CI TRPL) - 6"
- P1) 28" x 108" - BOX BASE 6inW, 6inF, Variable Ht F/n - 38"
- 1) Conseal CS-102 1.00" (Single)
- 3) CASTING - JBS 3080-V SET (F/G/H)
- 2) Hole - 24

0 lb  
7624 lb  
0 lb  
1500 lb  
0 lb  
-----  
Structure Total: 9124 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 I-CAST (3 ea. - 3080-V SET F/G/H).

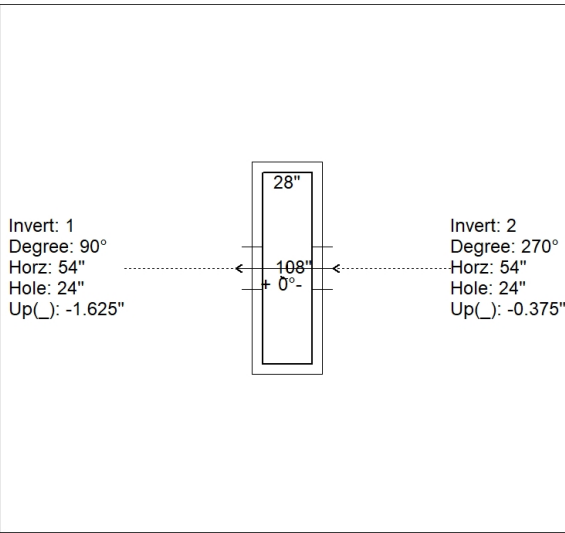
REINFORCING PER ASTM A615 (GRADE 60).  
- WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 519.01' Rim to Invert: 3.74' Slack: 0.88" Sump: 0" Step Position:

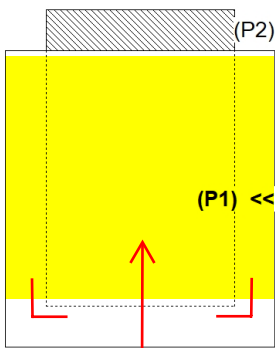
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	515.27'	90°	60"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"
Invert 2	515.37'	270°	60"	18" HDPE	21.2"	Hole 24	24"	24"	-0.375"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

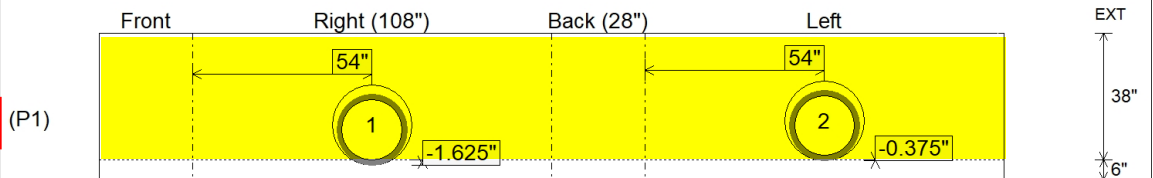


1ST POUR (FLOOR) = 2,417 LBS  
2ND POUR (WALLS) = 5,193 LBS



2ND POUR (WALLS)

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 6" Floor Height: 6"	Height (Int): 38" Height (Ext): 44"	Weight (Net): 7624 lb Volume (Net): 1.95cu.yd
----------------------------------	-------------------------------	--	--	--

Job Name: 25-2511B - Blue Sky Sec 1 (Storm)	Plant: 100	Tech: J. Horsley - F
Job Location: Clarksville, TN	11/17/2025 5:01:29 PM	PC: A. Chambers
Contractor: Byard Construction, LLC		

**Structure ID: A**

**P1 BX2828-06BA36**

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

- P2) 28" x 28" - CASTING HEIGHT - 6"
- P1) 28" x 28" - BOX BASE 6inW, 6inF F/n - 36"
- 1) Conseal CS-102 1.00" (Single)
- 1) CASTING - JBS 3080-V SET (F/G/H)
- 1) Hole - 24

	0 lb
	3043 lb
	0 lb
	500 lb
	0 lb
Structure Total:	3543 lb

**Structure Notes:**

- PER ASTM C913 SPECIFICATIONS.
- CONCRETE = 4,000 PSI AT 28 DAYS.
- NO STEPS AND NO INVERT CHANNEL.
- CASTING BY I-CAST (JBS 3080-V SET (F/G/H)).

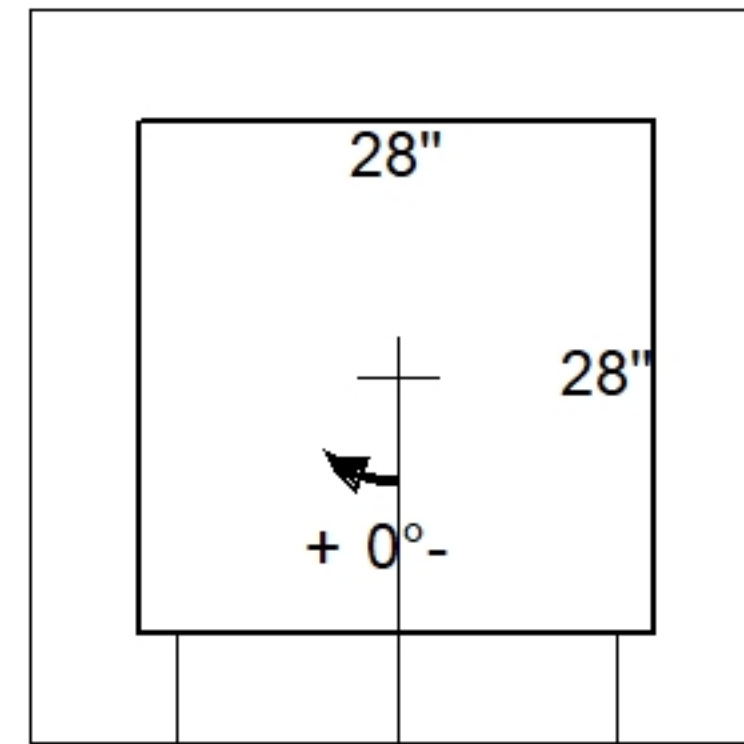
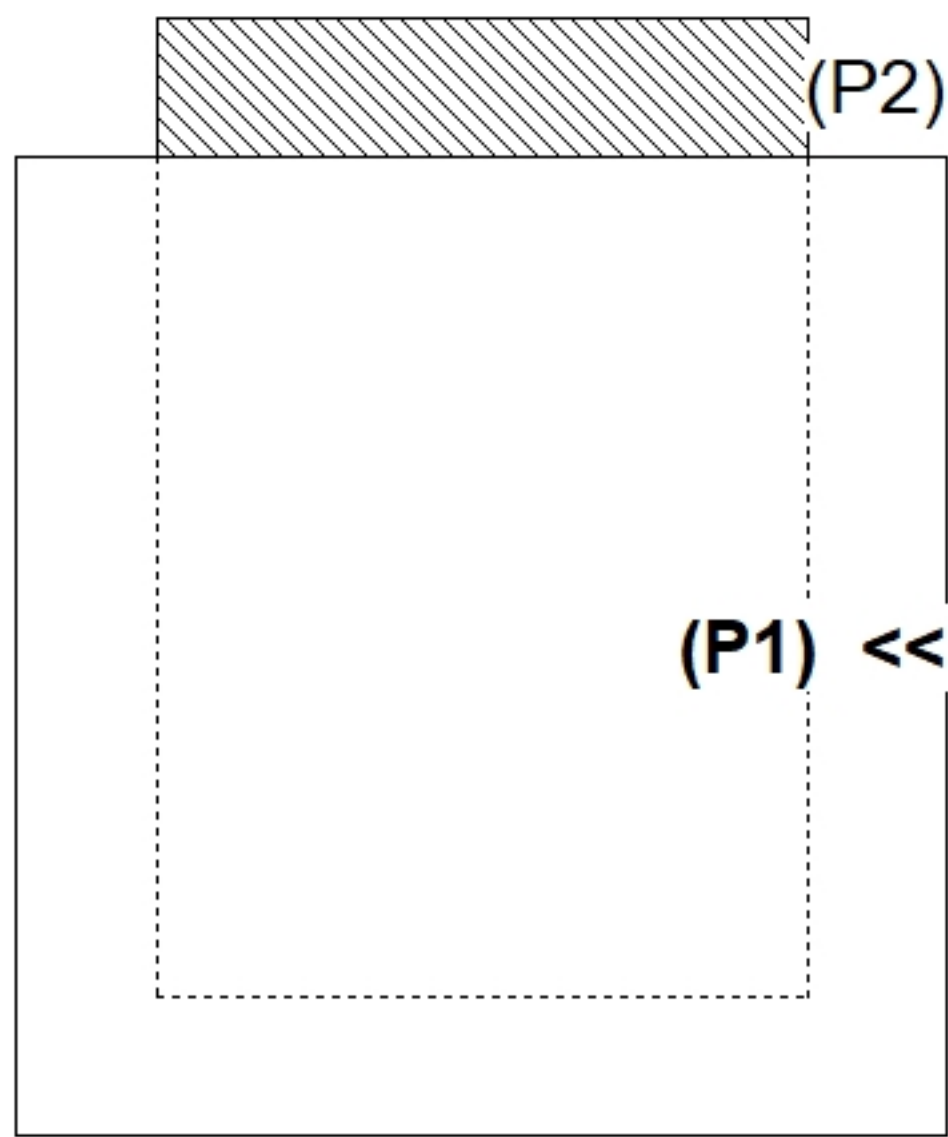
REINFORCING PER ASTM A615 (GRADE 60).  
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 519.01' Rim to Invert: 3.5' Slack: 0" Sump: 0" Step Position:

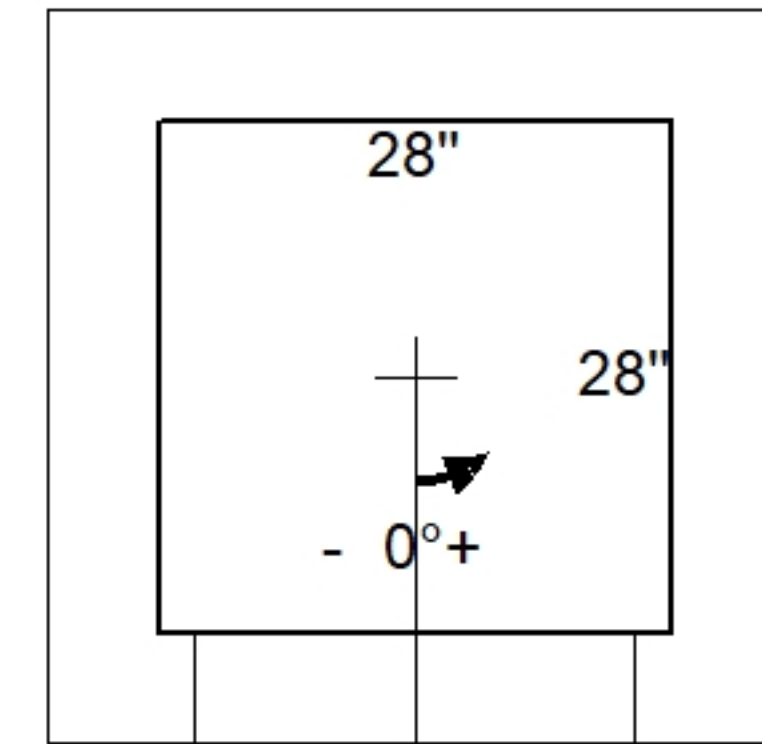
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	515.51'	0°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

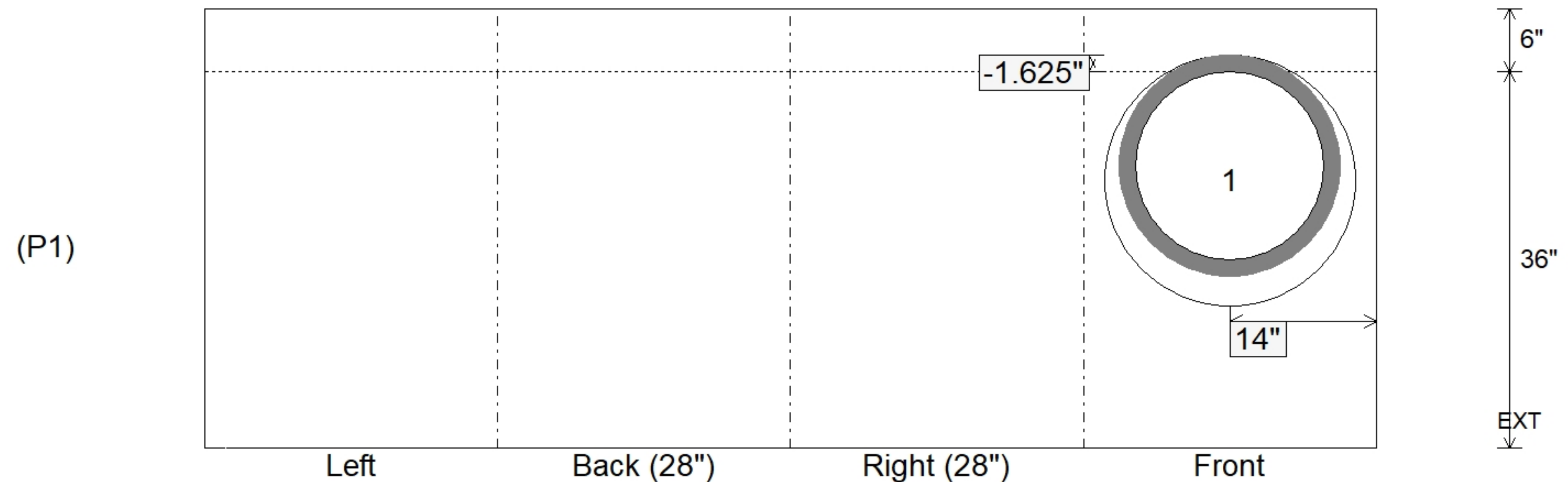


Invert: 1  
 Degree: 0°  
 Horz: 14"  
 Hole: 24"  
 Up( ): -1.625"



Invert: 1  
 Degree: 0°  
 Horz: 14"  
 Hole: 24"  
 Up( ): -1.625"

INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Flat	Wall Thickness: 6"	Height (Int): 36"	Weight (Net): 3043 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 6"	Height (Ext): 42"	Volume (Net): 0.78cu.yd

**Structure ID: CB11 - add 48in HT Riser**

**P2 BX2864-06R48**

**BOX RISER 6inW F/F**

P3) 28" x 64" - CASTING HEIGHT - 6" P2) 28" x 64" - BOX RISER 6inW F/F - 48" P1) 28" x 64" - BOX BASE 6inW, 6inF, Variable Ht, No tongue F/n - 25" 1) CASTING - JBS 3101 Double Set (F/G/H) 2) 28" x 64" - Conseal CS-102 1.00" 1) Hole - 22 2) LINTEL BAR SLOT n/n - 7"x1"	0 lb 5020 lb 3957 lb 1238 lb 0 lb 0 lb 0 lb ----- Structure Total: 10215 lb
---	---

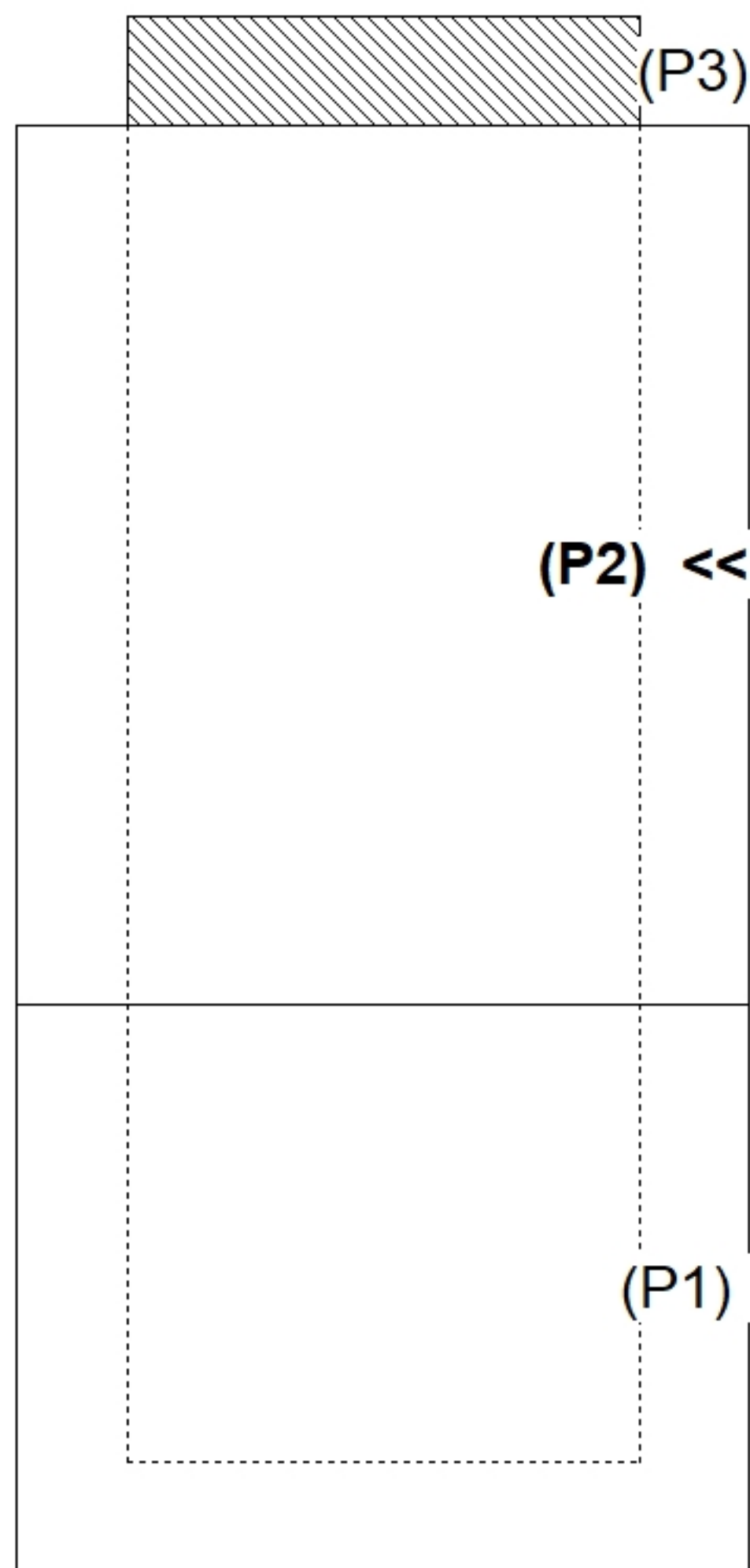
**Structure Notes:**  
 1. PER ASTM C913 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO INVERT CHANNEL.  
 4. CASTING BY ICAST (2ea. JBS 3101 F/G/H)

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.

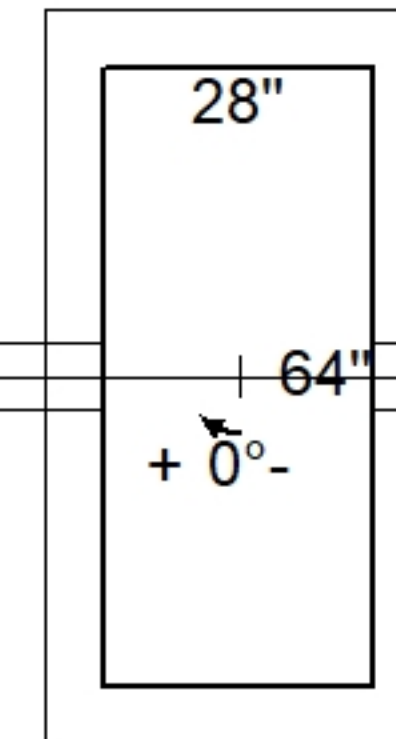
Rim: 571.83' Rim to Invert: 6.43' Slack: 0.416" Sump: 2.256" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1										
Invert 2										
Invert 3	571.21'	90°	38"	7" x 1" LINTEL BAR SLOT	7" x 1"	LINTEL BAR SLOT 7"x1"	7" x 1"	7"	47"	0"
Invert 4	571.21'	270°	38"	7" x 1" LINTEL BAR SLOT	7" x 1"	LINTEL BAR SLOT 7"x1"	7" x 1"	7"	47"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

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

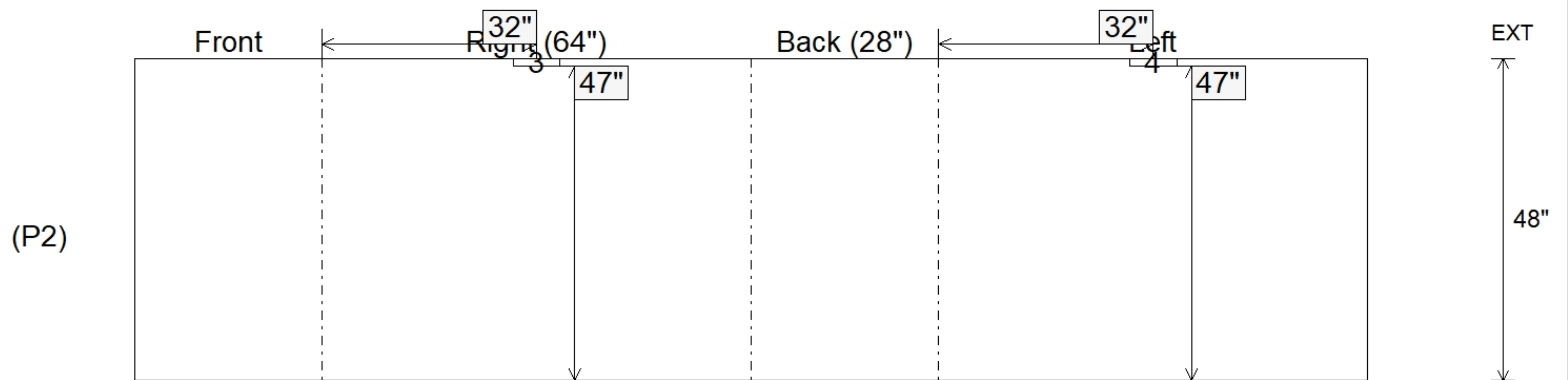


Invert: 3  
 Degree: 90°  
 Horz: 32"  
 Hole: 7" x 1"  
 Up( ): 47"



Invert: 4  
 Degree: 270°  
 Horz: 32"  
 Hole: 7" x 1"  
 Up( ): 47"

**INSIDE WALL DIMENSIONS**



Coating (Int):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 6" Floor Height: 0"	Height (Int): 48" Height (Ext): 48"
Coating (Ext):			Weight (Net): 5020 lb Volume (Net): 1.28cu.yd

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

Plant: 100

5/12/2026 12:59:22 PM

Tech: J. Horsley - A

PC: J. Jarvis



**Structure ID: 119**

**P1 BX1818-06BA24**

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

- P2) 18" x 18" - CASTING HEIGHT - 4"
- P1) 18" x 18" - BOX BASE 6inW, 6inF F/n - 24"
- 1) 18" x 18" - Conseal CS-102 1.00"
- 1) Hole - 16

0 lb  
 1512 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 1512 lb

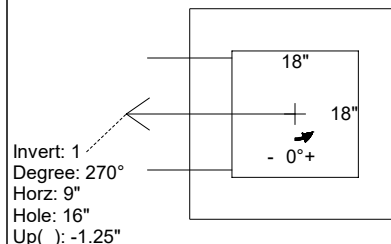
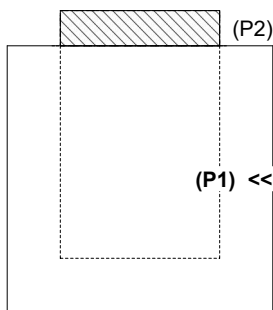
- Structure Notes:
1. PER MSD YARD DRAIN / ASTM C-913 SPECS
  2. CONCRETE: 4,000 PSI AT 28 DAYS
  3. REINFORCEMENT: #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
  4. NO STORM INVERT
  5. NO STEPS
  6. HOE 165-A FRAME & GRATE SUPPLIED BY OTHERS

Rim: 566.95' Rim to Invert: 2.5' Slack: 2" Sump: 0" Step Position:

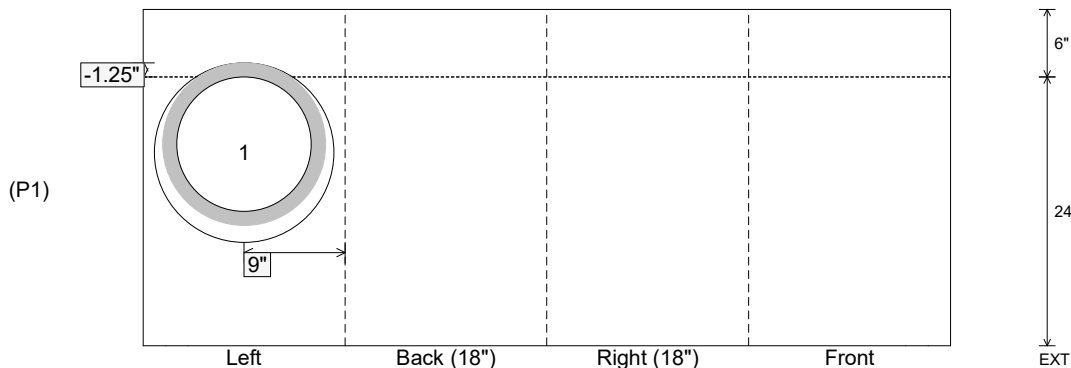
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	564.45'	270°	15"	12" HDPE	14.5"	Hole 16	16"	16"	-1.25"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 6"  
 Floor Height: 6"

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

Weight (Net): 1512 lb  
 Volume (Net): 0.39cu.yd

**Structure ID: 80**

**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 2) Hole - 4	<table style="width:100%; border-collapse: collapse;"> <tr><td style="text-align: right;">0 lb</td><td></td></tr> <tr><td style="text-align: right;">963 lb</td><td></td></tr> <tr><td style="text-align: right;">4579 lb</td><td></td></tr> <tr><td style="text-align: right;">0 lb</td><td></td></tr> <tr><td style="text-align: right;">0 lb</td><td></td></tr> <tr><td style="text-align: right;">0 lb</td><td></td></tr> <tr><td style="text-align: right;">0 lb</td><td></td></tr> <tr><td style="text-align: right;">-----0 lb</td><td></td></tr> <tr><td style="text-align: right;">Structure Total:</td><td style="text-align: right;">5542 lb</td></tr> </table>	0 lb		963 lb		4579 lb		0 lb		0 lb		0 lb		0 lb		-----0 lb		Structure Total:	5542 lb
0 lb																			
963 lb																			
4579 lb																			
0 lb																			
0 lb																			
0 lb																			
0 lb																			
-----0 lb																			
Structure Total:	5542 lb																		

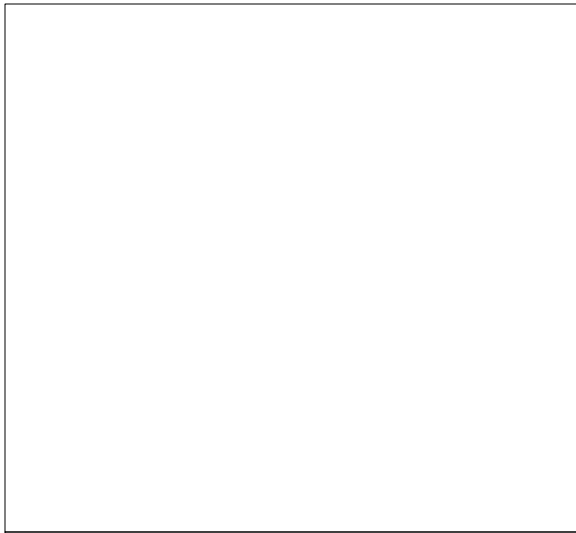
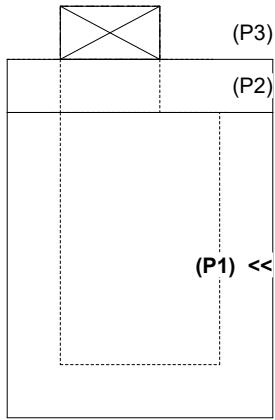
Structure Notes:  
**\*\*KYTC STATE PROJECT\*\***  
 1. PER KYTC DBI TYPE 13G / ASTM C-913 SPECS  
 2. CONCRETE: 4,000 PSI AT 28 DAYS  
 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)  
 4. NO STORM INVERT  
 5. NO STEPS  
 6. HOE KY-230G FRAME & GRATE SUPPLIED BY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

Rim: 551.03'    Rim to Invert: 4.5'    Slack: 0"    Sump: 0"    Step Position:

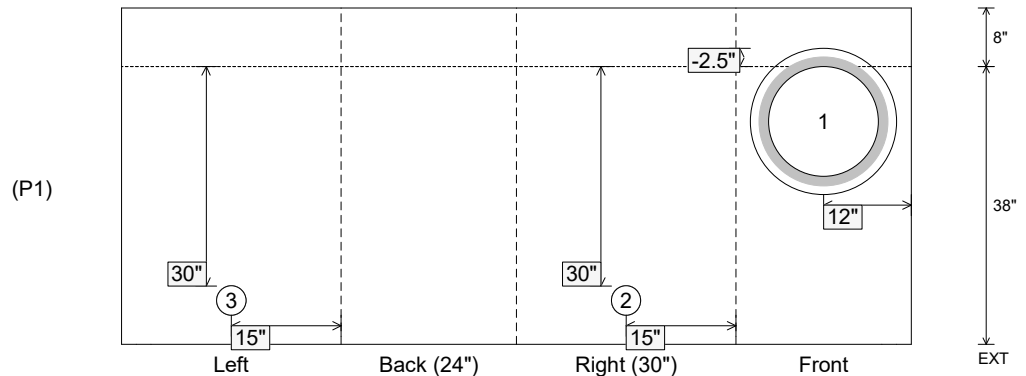
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	546.53'	0°	20"	15" HDPE	17.6"	Hole 20	20"	20"	-2.5"	0"
Invert 2	549.03'	90°	23"	4" WEEP HOLE	4"	Hole 4	4"	4"	30"	0"
Invert 3	549.03'	270°	23"	4" WEEP HOLE	4"	Hole 4	4"	4"	30"	0"
Invert 4										
Invert 5										
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): 38" Height (Ext): 46"	Weight (Net): 4579 lb Volume (Net): 1.17cu.yd
----------------------------------	-------------------------------	--	--	--

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

Plant: Beaver Dam  
 5/8/2026 8:06:19 AM

Tech: S. Felletter  
 PC: T. Lewis



**Structure ID: DB2**

**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 - 28"

- 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"
- 1) Hole - 20
- 1) Hole - 16

770 lb  
 3120 lb  
 0 lb  
 317 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 4208 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).

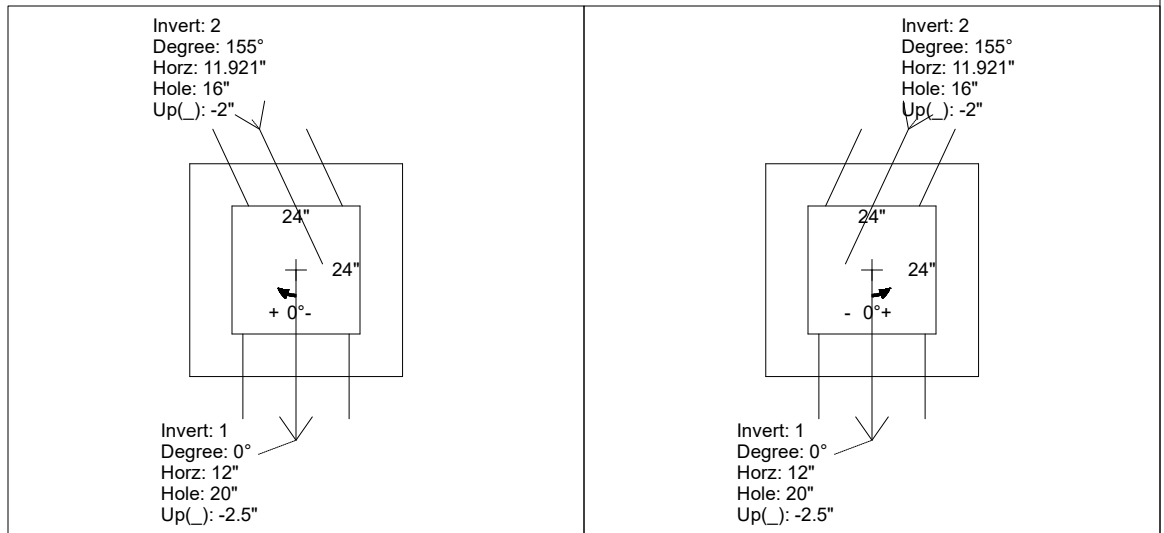
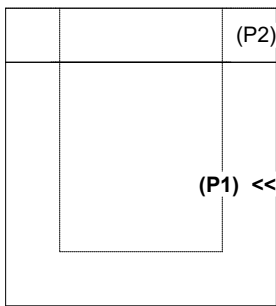
REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 337.8' Rim to Invert: 3' Slack: 0" Sump: 0" Step Position:

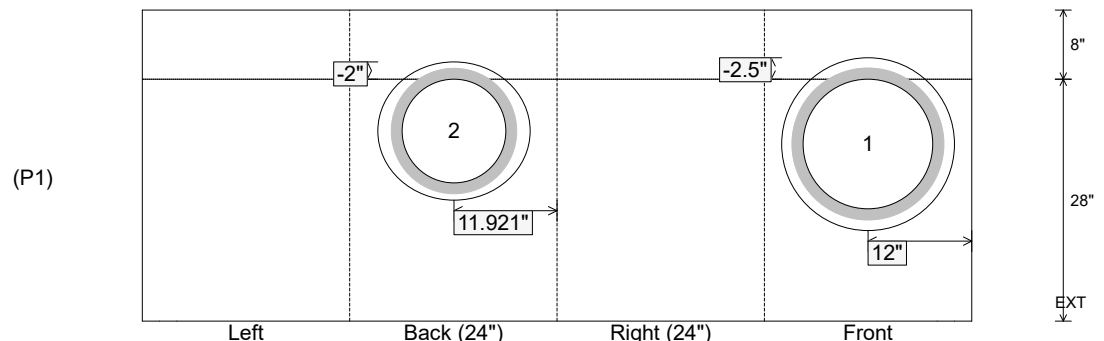
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	334.8'	0°	20"	15" HDPE	17.6"	Hole 20	20"	20"	-2.5"	0"
Invert 2	334.8'	155°	16.191"	12" HDPE	14.5"	Hole 16	16"	17.654"	-2"	5"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
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): 28"  
 Height (Ext): 36"

Weight (Net): 3120 lb  
 Volume (Net): 0.8cu.yd

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

Plant: Beaver Dam  
 5/8/2026 8:06:18 AM

Tech: S. Felletter  
 PC: T. Lewis



**Structure ID: DB1**

**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 - 22"
- 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"
- 1) Hole - 16
- 1) Hole - 8

770 lb  
 2782 lb  
 0 lb  
 317 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 3869 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).

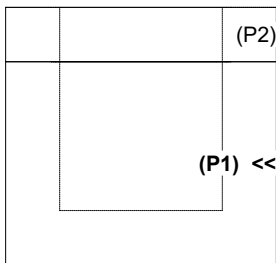
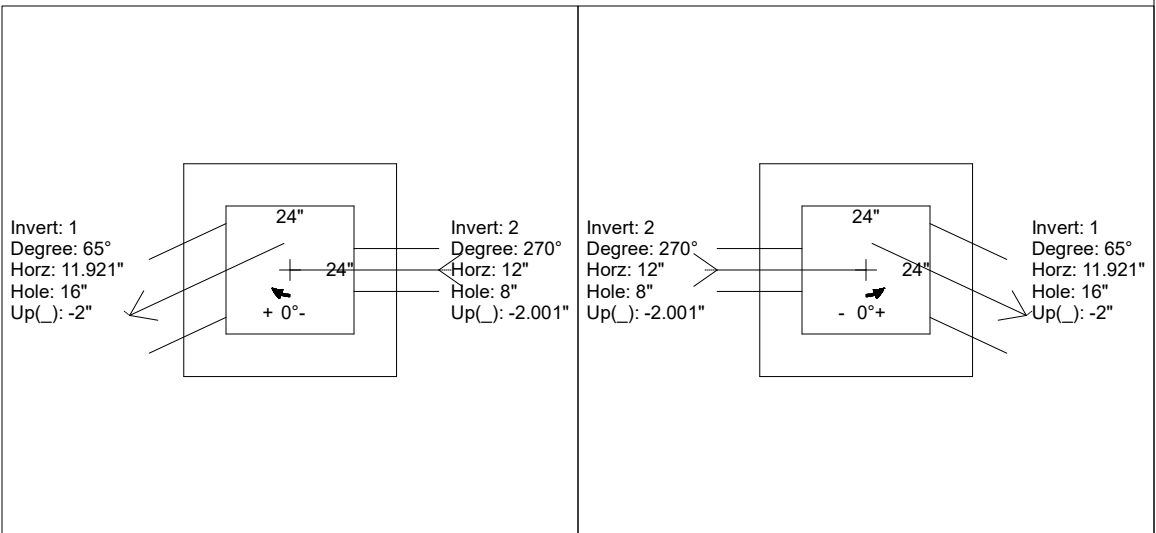
REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 337.5' Rim to Invert: 2.5' Slack: 0" Sump: 0" Step Position:

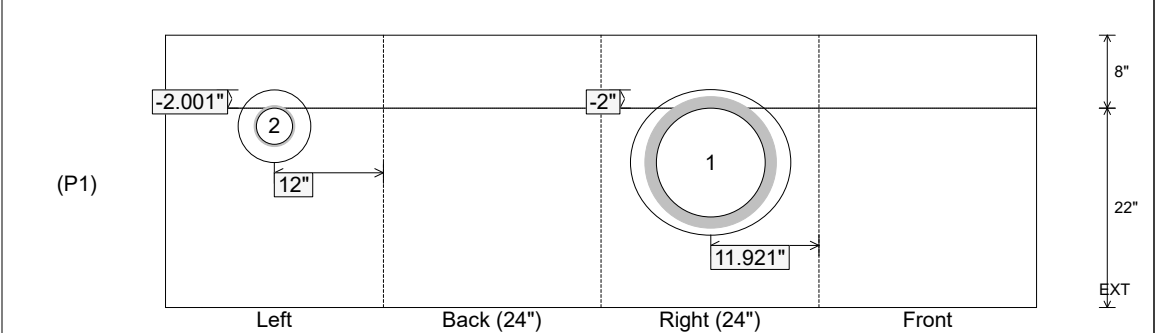
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	335'	65°	16.191"	12" HDPE	14.5"	Hole 16	16"	17.654"	-2"	5"
Invert 2	335'	270°	20"	4" PVC SCH40	4.5"	Hole 8	8"	8"	-2.001"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



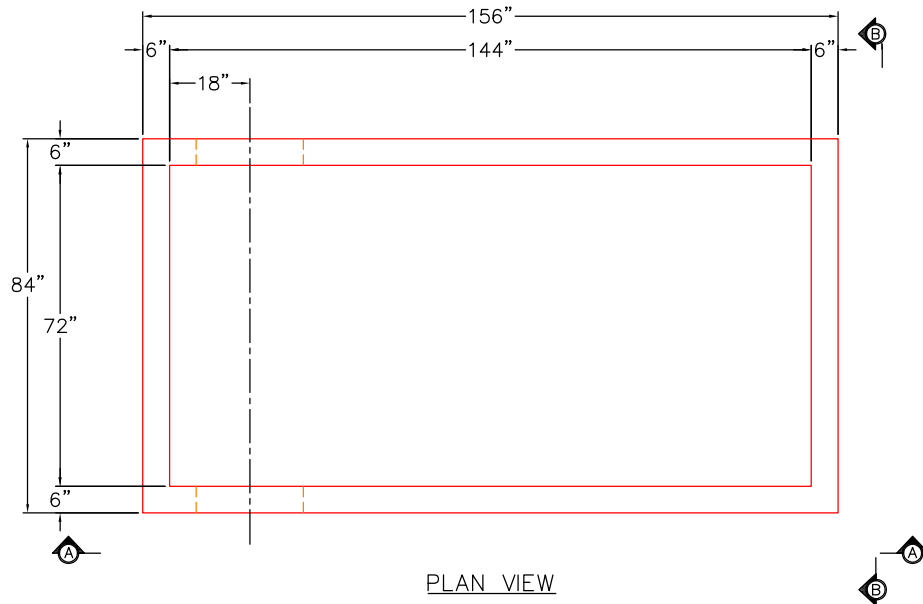
Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: n/a

Wall Thickness: 8"  
 Floor Height: 8"

Height (Int): 22"  
 Height (Ext): 30"

Weight (Net): 2782 lb  
 Volume (Net): 0.71cu.yd

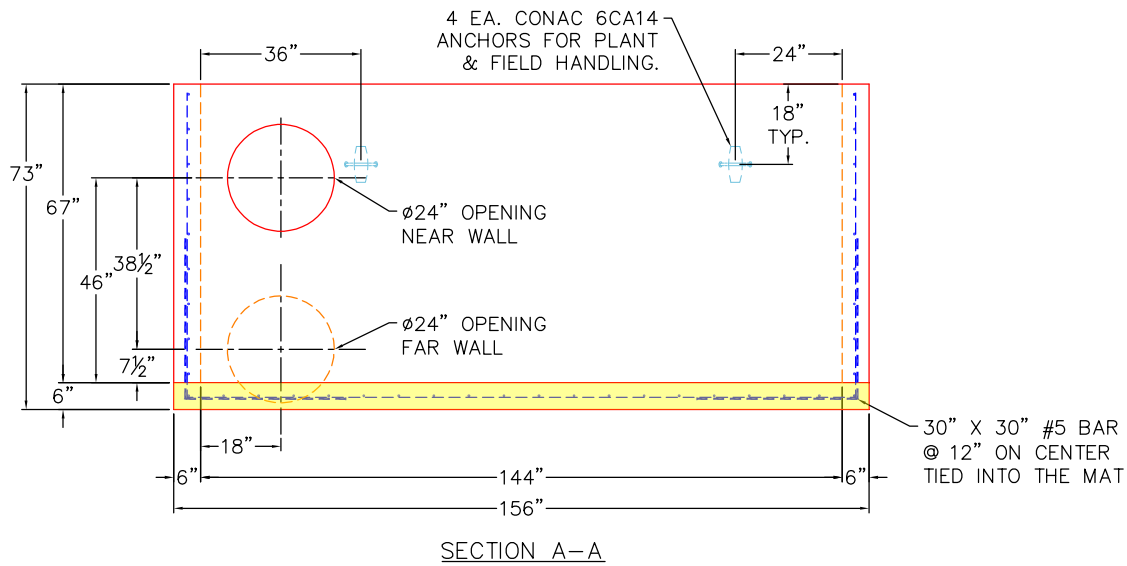


PLAN VIEW

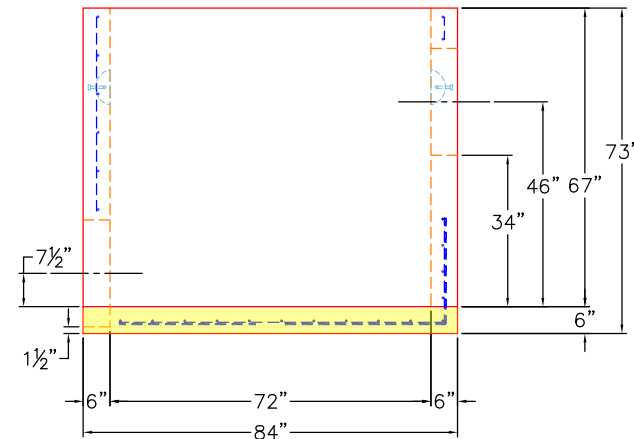
**GENERAL NOTES:**

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS. CONCRETE.
3. REINFORCING: PER ASTM A615 (GRADE 60). AS PER CONTECH STORMFILTER DRAWINGS
4. WEIGHTS: TOTAL = 21,524 LBS  
**FIRST POUR = 6,820 LBS**  
 SECOND POUR = 14,704 LBS
5. VAULT JOINT TO BE SEALED WITH CONCRETE SEALANTS, INC. CS-102 ROLL BUTYL MASTIC. (SUPPLIED BY ICAST)
8. STRUCTURE TO HAVE INTERNALS INSTALLED BY ICAST.
9. INLET & OUTLET PIPE OPENINGS TO BE STENCILED ONTO THE OUTSIDE OF THE PRODUCT.
10. LIFT ANCHORS TO BE PLACED ON THE OUTSIDE OF THE STRUCTURE.


**FIRST POUR DRAWING**

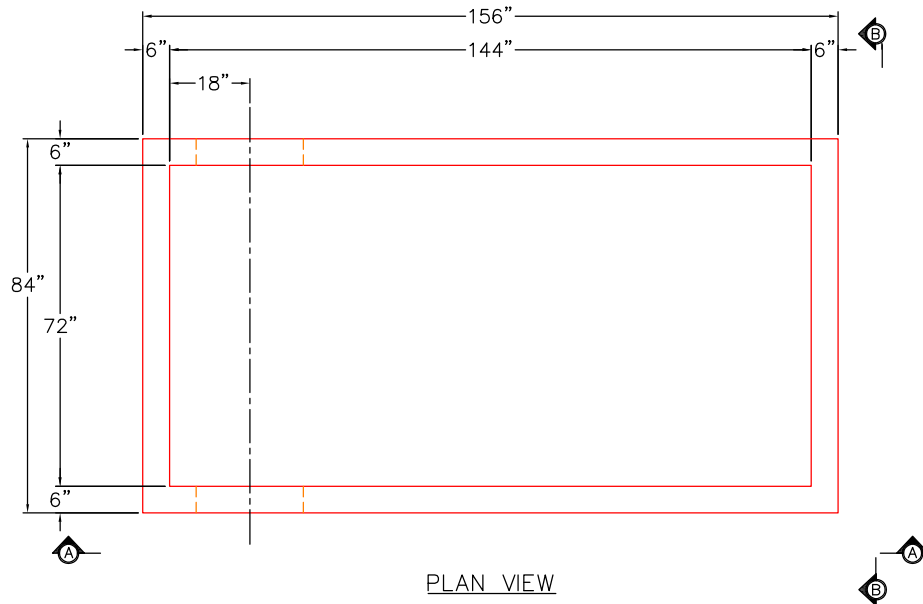


SECTION A-A



SECTION B-B

<p>PRODUCTION WORK ORDER</p>		<p>PRODUCT I.D.: BX072144-06W06F-VFFT</p>	<p>DESCRIPTION: 72" X 144" X 67" TALL VAULT</p>	
	<p>QUALITY CONTROL CHECKLIST</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ALL DIMENSIONS CORRECT.</li> <li><input type="checkbox"/> LIFTERS INSTALLED.</li> <li><input type="checkbox"/> OPENING CORRECT LOCATION.</li> <li><input type="checkbox"/> REINFORCING CORRECT.</li> <li><input type="checkbox"/> SURFACE QUALITY ACCEPTABLE.</li> <li><input type="checkbox"/> EDGES CHAMFERED.</li> <li><input type="checkbox"/> ALL PATCHWORK ACCEPTABLE.</li> </ul>	<p>PRODUCT VIEW: RIGHT SIDE UP</p>	<p>CUSTOMER: CONTECH ENGINEERING SOLUTIONS</p>	
		<p>PLANT: BEAVER DAM, KY.</p>	<p>PROJECT: 830197 TSSAA HEADQUARTERS</p>	
		<p>WEIGHT: 21,524 LBS.</p>	<p>STRUCTURE: 20-KFPD0612</p>	
		<p>TOP SECTION JOINT: N/A</p>	<p>ORDER NO: 26-2210</p>	
		<p>BASE SECTION JOINT: N/A</p>	<p>PC: C. GOFF</p>	<p>DRAWING: S. FELLETTA</p>
		<p>QC CHECK INITIALS:</p>	<p>DATE: 05/06/26</p>	<p>SCALE: NTS</p>

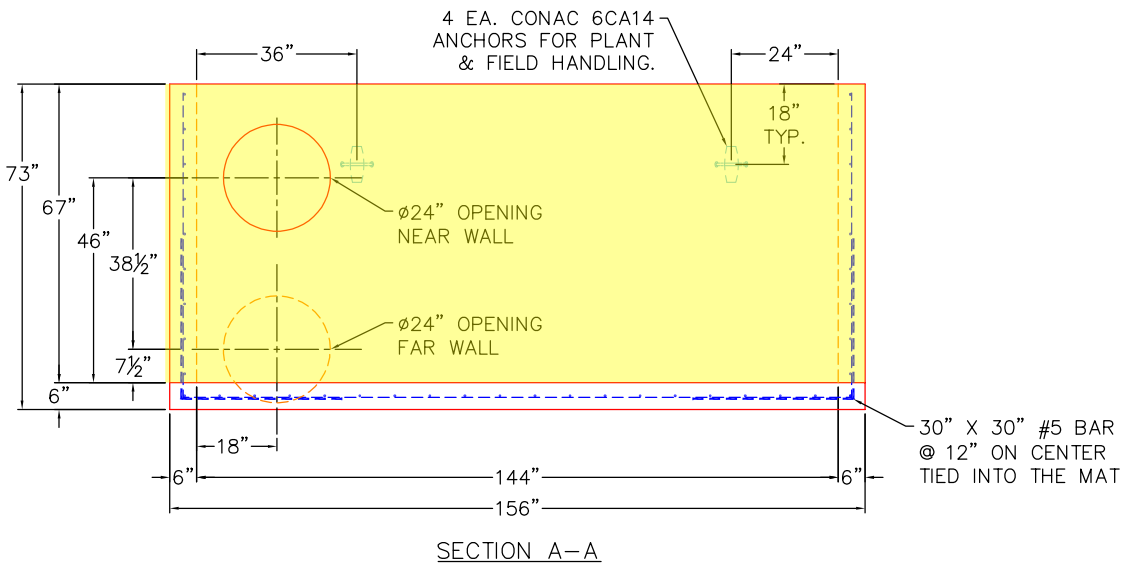


PLAN VIEW

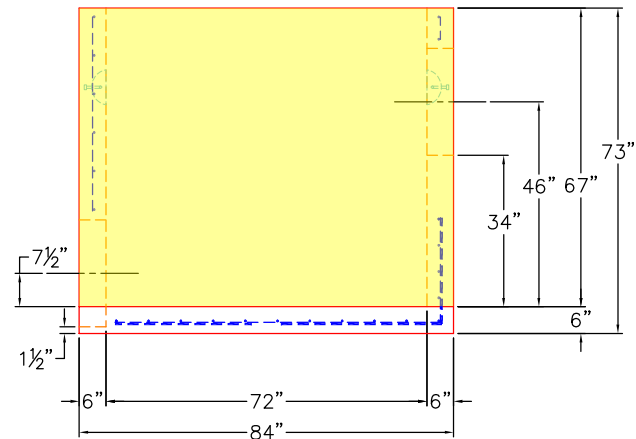
**GENERAL NOTES:**

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS. CONCRETE.
3. REINFORCING: PER ASTM A615 (GRADE 60). AS PER CONTECH STORMFILTER DRAWINGS
4. WEIGHTS: TOTAL = 21,524 LBS  
FIRST POUR = 6,820 LBS  
**SECOND POUR = 14,704 LBS**
5. VAULT JOINT TO BE SEALED WITH CONCRETE SEALANTS, INC. CS-102 ROLL BUTYL MASTIC. (SUPPLIED BY ICAST)
8. STRUCTURE TO HAVE INTERNALS INSTALLED BY ICAST.
9. INLET & OUTLET PIPE OPENINGS TO BE STENCILED ONTO THE OUTSIDE OF THE PRODUCT.
10. LIFT ANCHORS TO BE PLACED ON THE OUTSIDE OF THE STRUCTURE.


**SECOND POUR DRAWING**



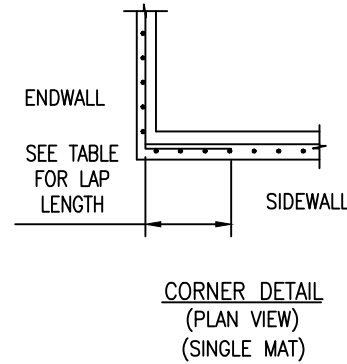
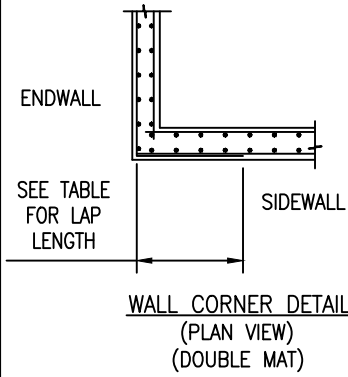
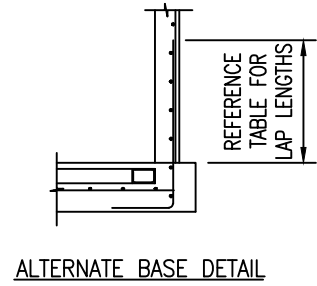
SECTION A-A



SECTION B-B

		<b>PRODUCTION WORK ORDER</b> QUALITY CONTROL CHECKLIST <input type="checkbox"/> ALL DIMENSIONS CORRECT. <input type="checkbox"/> LIFTERS INSTALLED. <input type="checkbox"/> OPENING CORRECT LOCATION. <input type="checkbox"/> REINFORCING CORRECT. <input type="checkbox"/> SURFACE QUALITY ACCEPTABLE. <input type="checkbox"/> EDGES CHAMFERED. <input type="checkbox"/> ALL PATCHWORK ACCEPTABLE.	PRODUCT I.D.: BX072144-06W06F-VFFT PRODUCT VIEW: RIGHT SIDE UP PLANT: BEAVER DAM, KY. WEIGHT: 21,524 LBS. TOP SECTION JOINT: N/A BASE SECTION JOINT: N/A QC CHECK INITIALS:	DESCRIPTION: 72" X 144" X 67" TALL VAULT CUSTOMER: CONTECH ENGINEERING SOLUTIONS PROJECT: 830197 TSSAA HEADQUARTERS STRUCTURE: 20-KFPD0612 ORDER NO: 26-2210 PC: C. GOFF DATE: 05/06/26	DRAWING: S. FELLETTA SCALE: NTS PG. 1 of 1
---	--	--	---	---	--

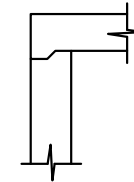
MINIMUM LAP	
BAR SIZE	LAP
#4(10M)	21"[535]
#5(15M)	26"[660]
#6(20M)	31"[790]
#7(25M)	36"[915]
#8(32M)	46"[1170]



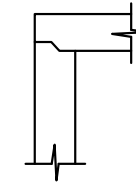
- NOTES:
- DESIGN LOAD = AASHTO HS20-44 (ONE LANE OF TRAFFIC; ONE AXLE)
  - CONCRETE STRENGTH = 5000psi
  - REINFORCING STEEL - GRADE 60
  - CHART BELOW SHOWS MAXIMUM DEPTH OF FILL FOR UNIT CLASS AT VARIOUS WATER TABLE DEPTHS. DRY INDICATED W/T BELOW UNIT. FILL DEPTHS GREATER THAN 10' SHALL REQUIRE SPECIAL DESIGN.
  - PIPE OPENINGS, SIZE AND LOCATION, AS REQUIRED. PROVIDE ADDITIONAL REINFORCING EQUAL TO THE BARS INTERRUPTED, 1/2 EACH SIDE. ADD #4 DIAGONAL TRIM BARS AROUND OPENINGS.
  - FULL HEIGHT MONO BASE UNIT, MUST HAVE TOP SLAB IN PLACE PRIOR TO BACK FILLING.
  - BAR WEIGHTS AND DETAILS BASED ON VISUAL SHOWN.
  - SECONDARY CAST FLOW KIT SHALL BE IN PLACE PRIOR TO BACK FILLING.
  - THE OPENING SIZES AND LOCATIONS MAY VARY. FOR EXACT SIZES AND LOCATIONS SEE CONTECH PROJECT SPECIFIC DRAWINGS.

SECTION	0	3	6	9	DRY
FULL BASE	2.75	4.25	5.75	8.25	10.00

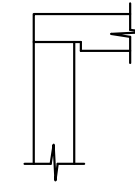
ALT. TOP SLAB  
DETAIL A  
\*SEE BELOW



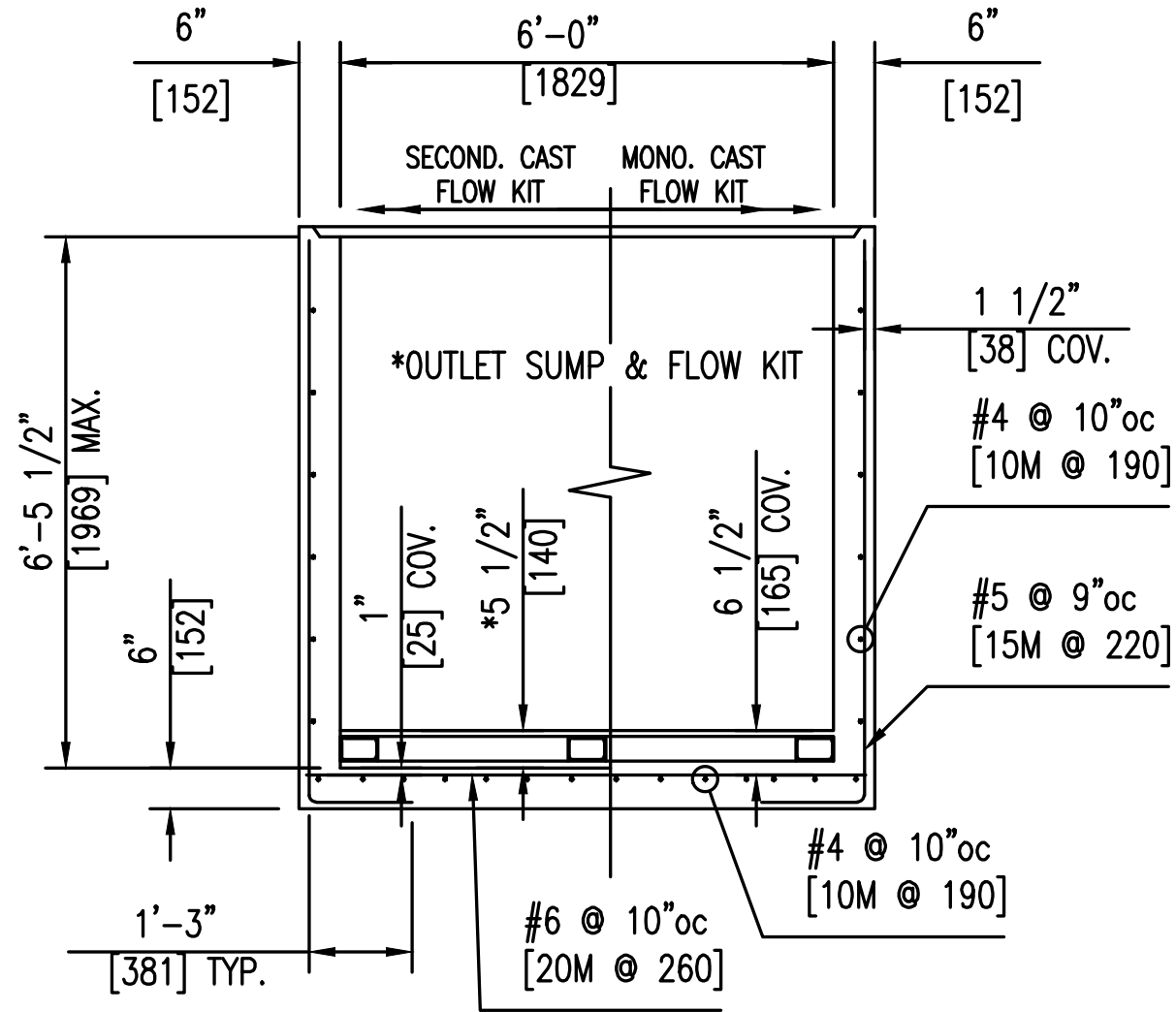
ALT. TOP SLAB  
DETAIL B



ALT. TOP SLAB  
DETAIL C



\* ALTERNATE SLAB DETAIL "A" CANNOT BE USED WITH FULL HEIGHT MONO BASE. SEE NOTE 6 ABOVE.



FULL HEIGHT MONOLITHIC BASE UNIT  
(BAR WEIGHT = 900 LBS.)  
SEE NOTE 6

ALTERNATE WALL DESIGN (HORIZONTAL BARS TO OUTSIDE)			
WALLS	VERT.	HORIZ.	COV. TO HORIZ.
6"	#5 @ 10"	#4 @ 12"	1 1/2"



TITLE: STORMFILTER 6 X 12 - 600 CLASS  
 PREPARED BY: PROJECT: STORMFILTER  
 DRAWN BY: KMK DATE: 6/2010  
 CHECKED BY: SLV JOB No: 2008.025.064  
 SCALE: NONE NUMBER: SFCX12



26-2210  
 830197 TSSAA Headquarters  
 20-KFPD0612

STORMFILTER 6' X 12': 600 CLASS 12'-0" L x 6'-0" W x 6'-0" I.D.

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

Plant: 100  
 5/14/2026 11:30:48 AM

Tech: Jared - F  
 PC: T. Lewis



**Structure ID: SSWR-3**

**P1 MH048BA24**

**MH BASE T/n**

P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 48" - ECC CONE w/ 24" HOLE F/G - 30"	2050 lb
P2) 48" - MH RISER T/G - 36"	2515 lb
P1) 48" - MH BASE T/n - 24"	2863 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
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 12M NYLO	16 lb
1) PSX - 12-06 NYLO	8 lb
7) MH Step ML-10-TDS-NCR - 10"	0 lb
<b>Structure Total:</b>	<b>9150 lb</b>

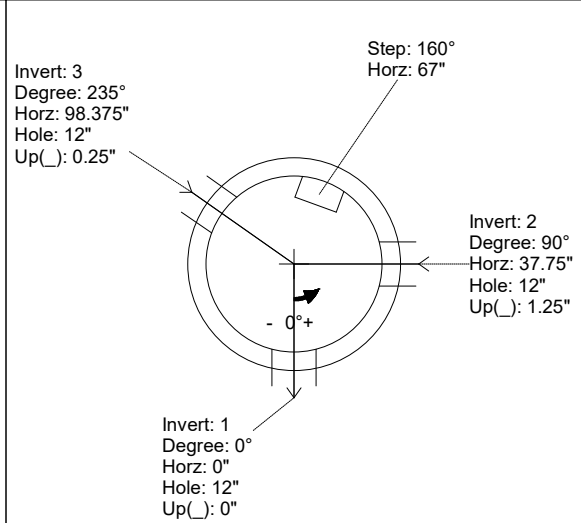
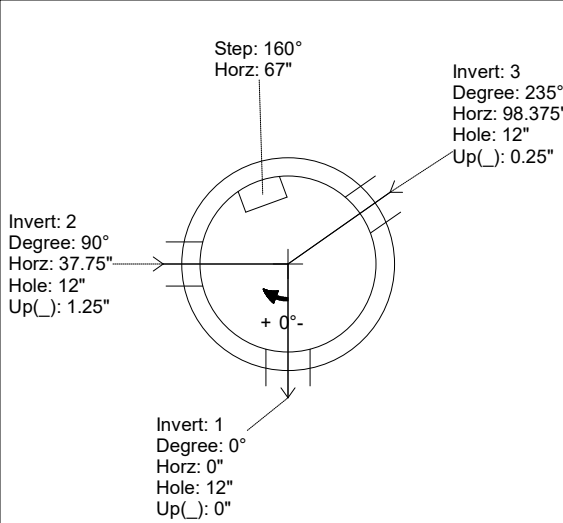
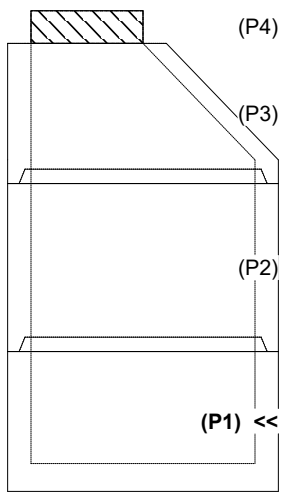
**Structure Notes:**  
 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. CASTING BY ICAST (HOE MC-315 F/C SANITARY).  
  
 REINFORCING PER ASTM A615 (GRADE 60).  
 - CONE (As .12)  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 888.08' Rim to Invert: 7.96' Slack: 0.52" Sump: 2" Step Position: 160°

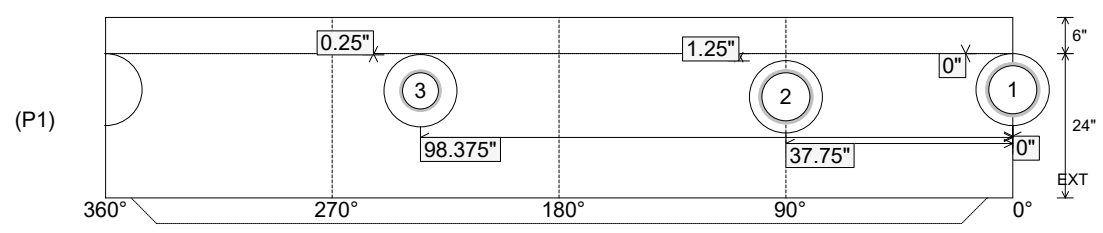
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	880.12'	0°	0"	8" PVC C900	9.05"	PSX 12M NYLO	12"	12.129"	0"	0"
Invert 2	880.22'	90°	45.5"	8" PVC C900	9.05"	PSX 12M NYLO	12"	12.129"	1.25"	0"
Invert 3	880.22'	235°	119"	6" PVC C900	6.9"	PSX 12-06 NYLO	12"	12.129"	0.25"	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: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2863 lb Volume (Net): 0.73cu.yd
----------------------------------	---------------------------------	--	--	--

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

Plant: 100

5/14/2026 11:30:48 AM

Tech: Jared - F

PC: T. Lewis



**Structure ID: SSWR-3**

**P1 MH048BA24**

**MH BASE T/n**

- P4) 24" - CASTING HEIGHT - 7"
- P3) 48" - ECC CONE w/ 24" HOLE F/G - 30"
- P2) 48" - MH RISER T/G - 36"
- 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
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12M NYLO
- 1) PSX - 12-06 NYLO
- 7) MH Step ML-10-TDS-NCR - 10"

0 lb  
 2050 lb  
 2515 lb  
 2863 lb  
 0 lb  
 0 lb  
 1440 lb  
 258 lb  
 0 lb  
 16 lb  
 8 lb  
 0 lb  
 -----  
 Structure Total: 9150 lb

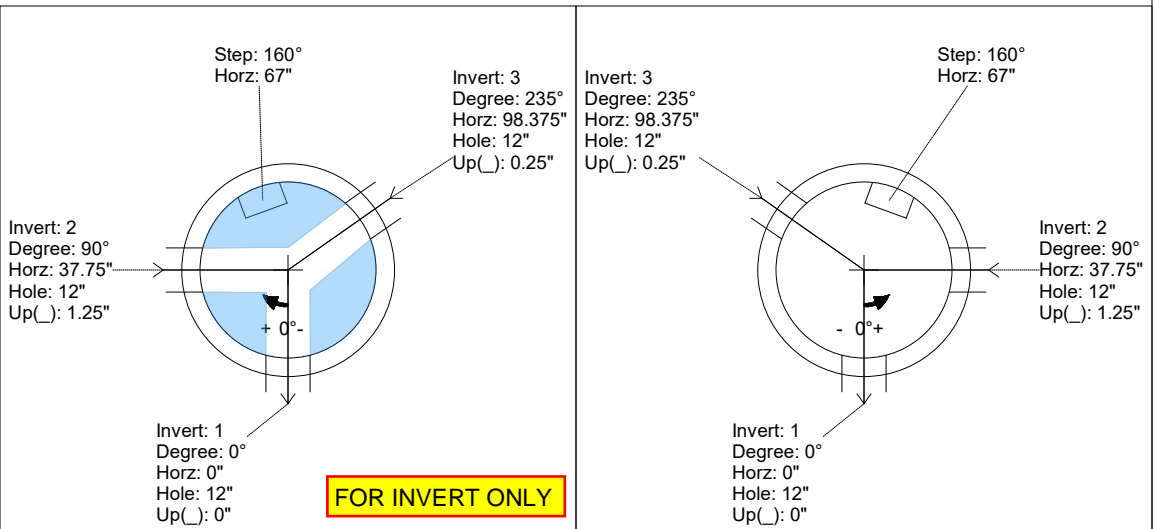
**Structure Notes:**  
 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. CASTING BY ICAST (HOE MC-315 F/C SANITARY).  
  
 REINFORCING PER ASTM A615 (GRADE 60).  
 - CONE (As .12)  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 888.08' Rim to Invert: 7.96' Slack: 0.52" Sump: 2" Step Position: 160°

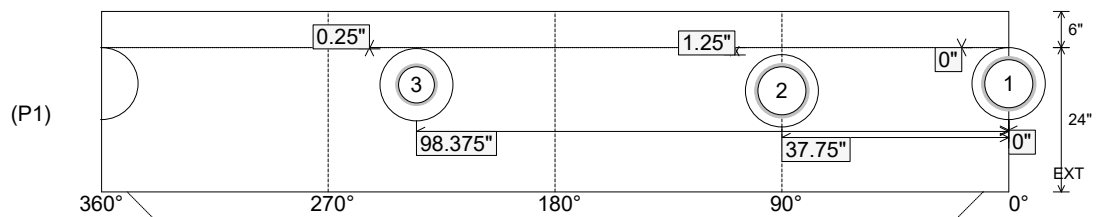
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	880.12'	0°	0"	8" PVC C900	9.05"	PSX 12M NYLO	12"	12.129"	0"	0"
Invert 2	880.22'	90°	45.5"	8" PVC C900	9.05"	PSX 12M NYLO	12"	12.129"	1.25"	0"
Invert 3	880.22'	235°	119"	6" PVC C900	6.9"	PSX 12-06 NYLO	12"	12.129"	0.25"	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: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

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

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

Job Name: 26-1210 Sacramento Gravity Sewer  
 Job Location: Sacramento, KY  
 Contractor: Scott & Ritter, Inc.

Plant: Beaver Dam  
 5/15/2026 1:59:31 PM

Tech: S. Felletter  
 PC: T. Lewis



**Structure ID: BMH1-12 SS-MHDH**

**P1 MH048BA30**

**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 - 30"	3282 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) 48" - Conseal CS-231 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
3) PSX - 12-08 DD (DBL Bands)	24 lb
2) MH Step ML-10-TDS-NCR - 10"	0 lb
<b>Structure Total:</b>	<b>6307 lb</b>

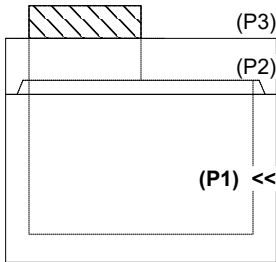
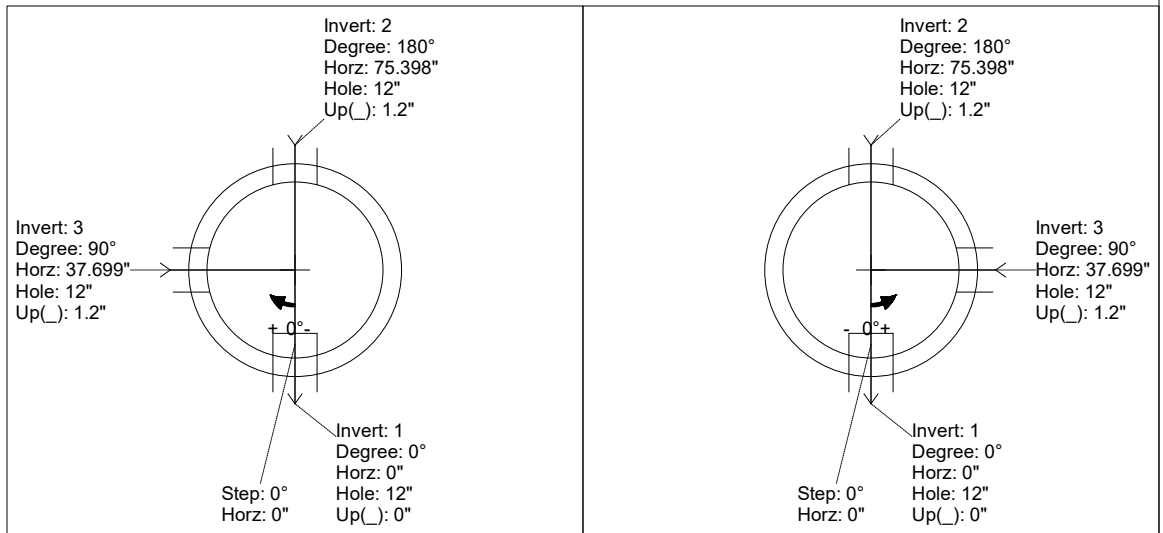
**Structure Notes:** 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. CASTING BY OTHERS.  
 REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.  
 BASE REMAKE

Rim: 480.49' Rim to Invert: 3.99' Slack: 0.88" Sump: 2" Step Position: 0°

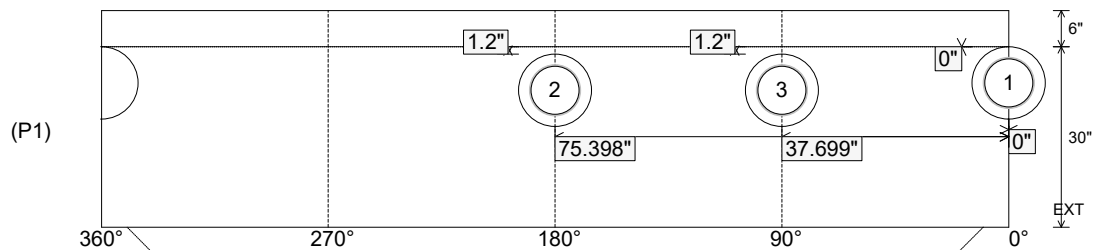
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	476.5'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	0"	0"
Invert 2	476.6'	180°	91.106"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1.2"	0"
Invert 3	476.6'	90°	45.553"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1.2"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3282 lb Volume (Net): 0.84cu.yd
----------------------------------	---------------------------------	--	--	--

Job Name: 26-1210 Sacramento Gravity Sewer  
 Job Location: Sacramento, KY  
 Contractor: Scott & Ritter, Inc.

Plant: Beaver Dam  
 5/15/2026 1:59:31 PM

Tech: S. Felletter  
 PC: T. Lewis



**Structure ID: BMH1-12 SS-MHDH**

**P1 MH048BA30**

**MH BASE T/n**

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P1) 48" - MH BASE T/n - 30"
- 1) 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) 48" - Conseal CS-231 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 3) PSX - 12-08 DD (DBL Bands)
- 2) MH Step ML-10-TDS-NCR - 10"

0 lb  
 1561 lb  
 3282 lb  
 0 lb  
 0 lb  
 1440 lb  
 0 lb  
 0 lb  
 0 lb  
 24 lb  
 0 lb  
 -----  
 Structure Total: 6307 lb

**Structure Notes:** 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. CASTING BY OTHERS.  
 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.  
 BASE REMAKE

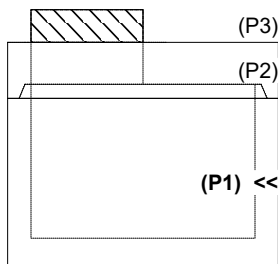
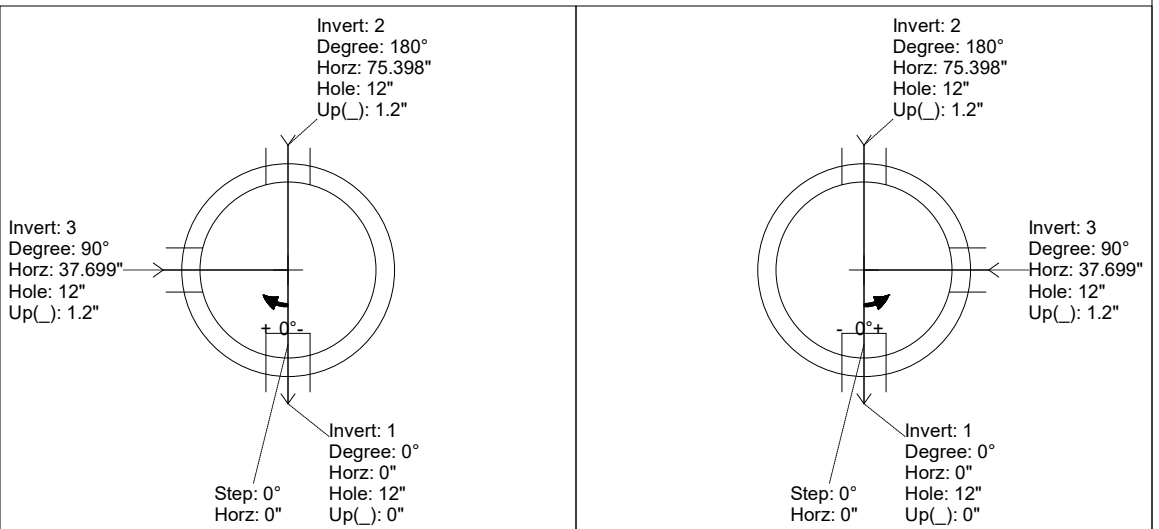
Invert channel drawing  
 Full height invert

Rim: 480.49' Rim to Invert: 3.99' Slack: 0.88" Sump: 2" Step Position: 0°

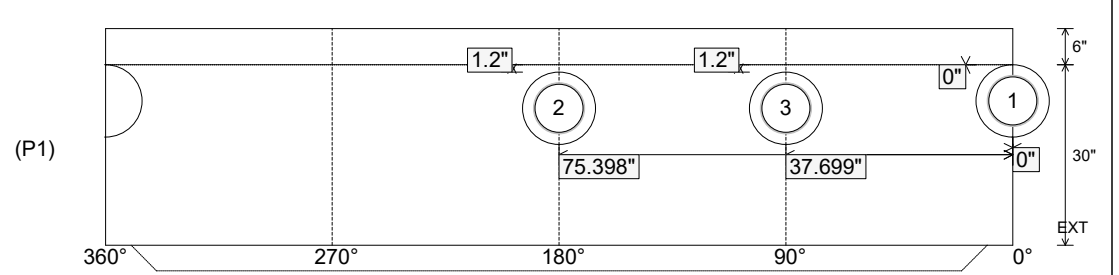
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	476.5'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	0"	0"
Invert 2	476.6'	180°	91.106"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1.2"	0"
Invert 3	476.6'	90°	45.553"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1.2"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3282 lb Volume (Net): 0.84cu.yd
----------------------------------	---------------------------------	--	--	--

Job Name: 26-1210 Sacramento Gravity Sewer  
 Job Location: Sacramento, KY  
 Contractor: Scott & Ritter, Inc.

Plant: Beaver Dam  
 5/15/2026 1:59:32 PM

Tech: S. Felletter  
 PC: T. Lewis



**Structure ID: DMH1-28 SS-MHDH**

**P1 MH048BA24**

**MH BASE T/n**

P5) 24" - CASTING HEIGHT - 7"	0 lb
P4) 24" - GRADE RING F/F - 4"	270 lb
P3) 48" - ECC CONE w/ 24" HOLE F/G - 36"	3000 lb
P2) 48" - MH RISER T/G - 24"	1677 lb
P1) 48" - MH BASE T/n - 24"	2863 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
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
2) 24" - Conseal CS-102 1.00" (Double)	0 lb
3) PSX - 12-08 DD (DBL Bands)	24 lb
6) MH Step ML-10-TDS-NCR - 10"	0 lb
<b>Structure Total:</b>	<b>9274 lb</b>

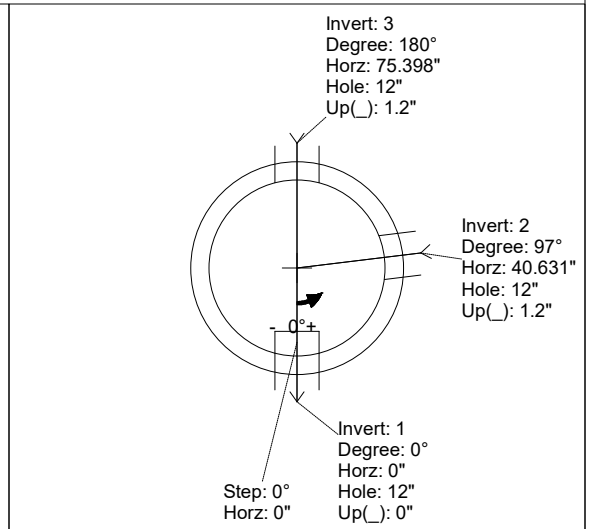
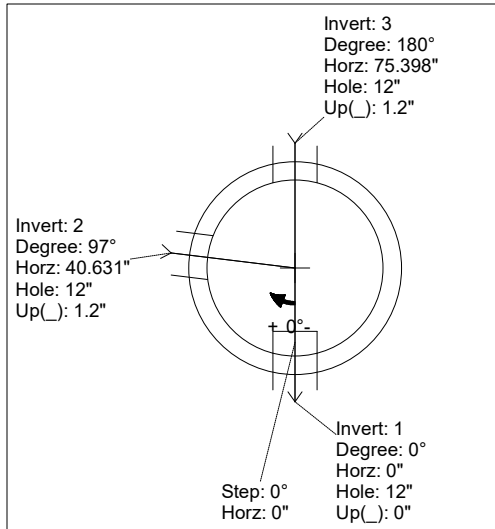
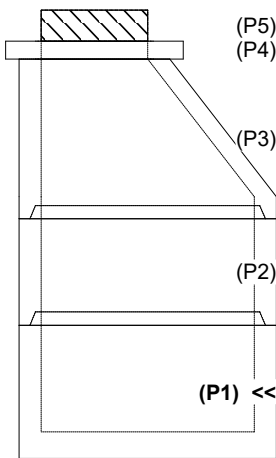
**Structure Notes:** 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. CASTING BY OTHERS.  
 REINFORCING PER ASTM A615 (GRADE 60).  
 - CONE (As .12)  
 - RISER/WALLS (As .12)  
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.  
 BASE REMAKE

Rim: 477.56' Rim to Invert: 7.91' Slack: 1.92" Sump: 2" Step Position: 0°

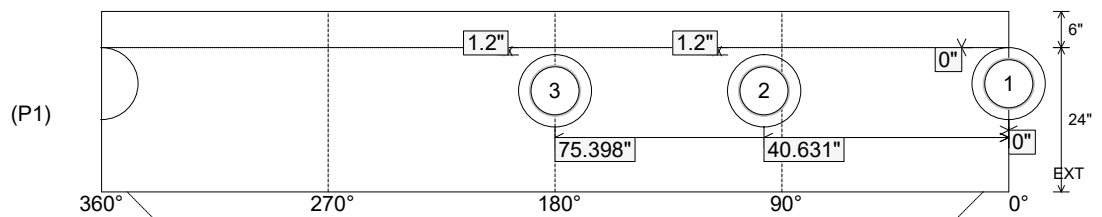
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	469.65'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	0"	0"
Invert 2	469.75'	97°	49.096"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1.2"	0"
Invert 3	469.75'	180°	91.106"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1.2"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

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

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

Job Name: 26-1210 Sacramento Gravity Sewer  
 Job Location: Sacramento, KY  
 Contractor: Scott & Ritter, Inc.

Plant: Beaver Dam  
 5/15/2026 1:59:32 PM

Tech: S. Felletter  
 PC: T. Lewis



**Structure ID: DMH1-28 SS-MHDH**

**P1 MH048BA24**

**MH BASE T/n**

- P5) 24" - CASTING HEIGHT - 7"
- P4) 24" - GRADE RING F/F - 4"
- P3) 48" - ECC CONE w/ 24" HOLE F/G - 36"
- P2) 48" - MH RISER T/G - 24"
- 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
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) 24" - Conseal CS-102 1.00" (Double)
- 3) PSX - 12-08 DD (DBL Bands)
- 6) MH Step ML-10-TDS-NCR - 10"

0 lb  
 270 lb  
 3000 lb  
 1677 lb  
 2863 lb  
 0 lb  
 0 lb  
 1440 lb  
 0 lb  
 0 lb  
 24 lb  
 0 lb  
 -----  
 Structure Total: 9274 lb

**Structure Notes:** 1. PER ASTM C478 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. CASTING 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.  
 BASE REMAKE

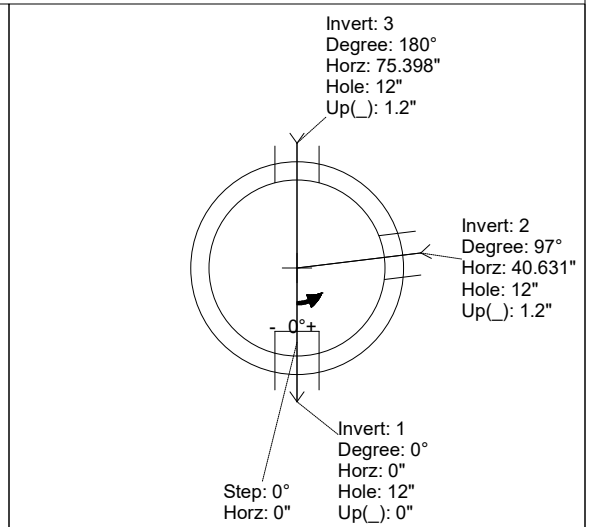
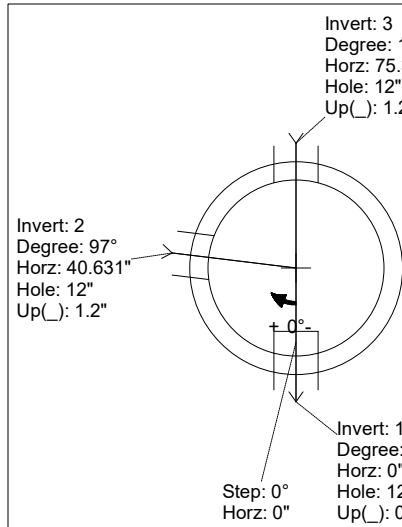
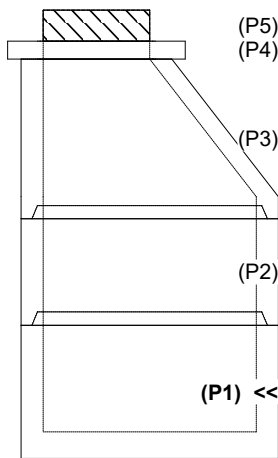
**Invert channel drawing  
 Full height invert**

Rim: 477.56' Rim to Invert: 7.91' Slack: 1.92" Sump: 2" Step Position: 0°

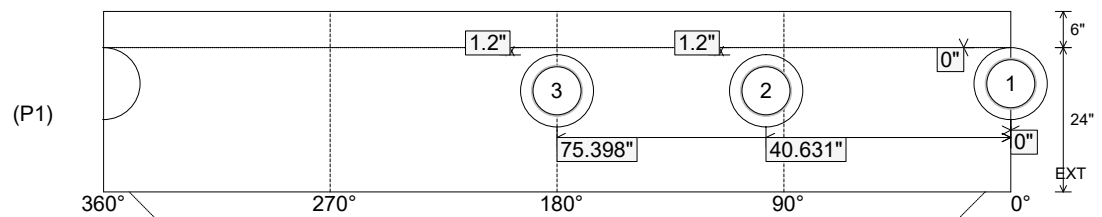
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	469.65'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	0"	0"
Invert 2	469.75'	97°	49.096"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1.2"	0"
Invert 3	469.75'	180°	91.106"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1.2"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):  
 Coating (Ext):

Seam Up: Tongue  
 Seam Dn: n/a

Wall Thickness: 5"  
 Floor Height: 6"

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

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

**Structure ID: C**

**P1 HWA18F**

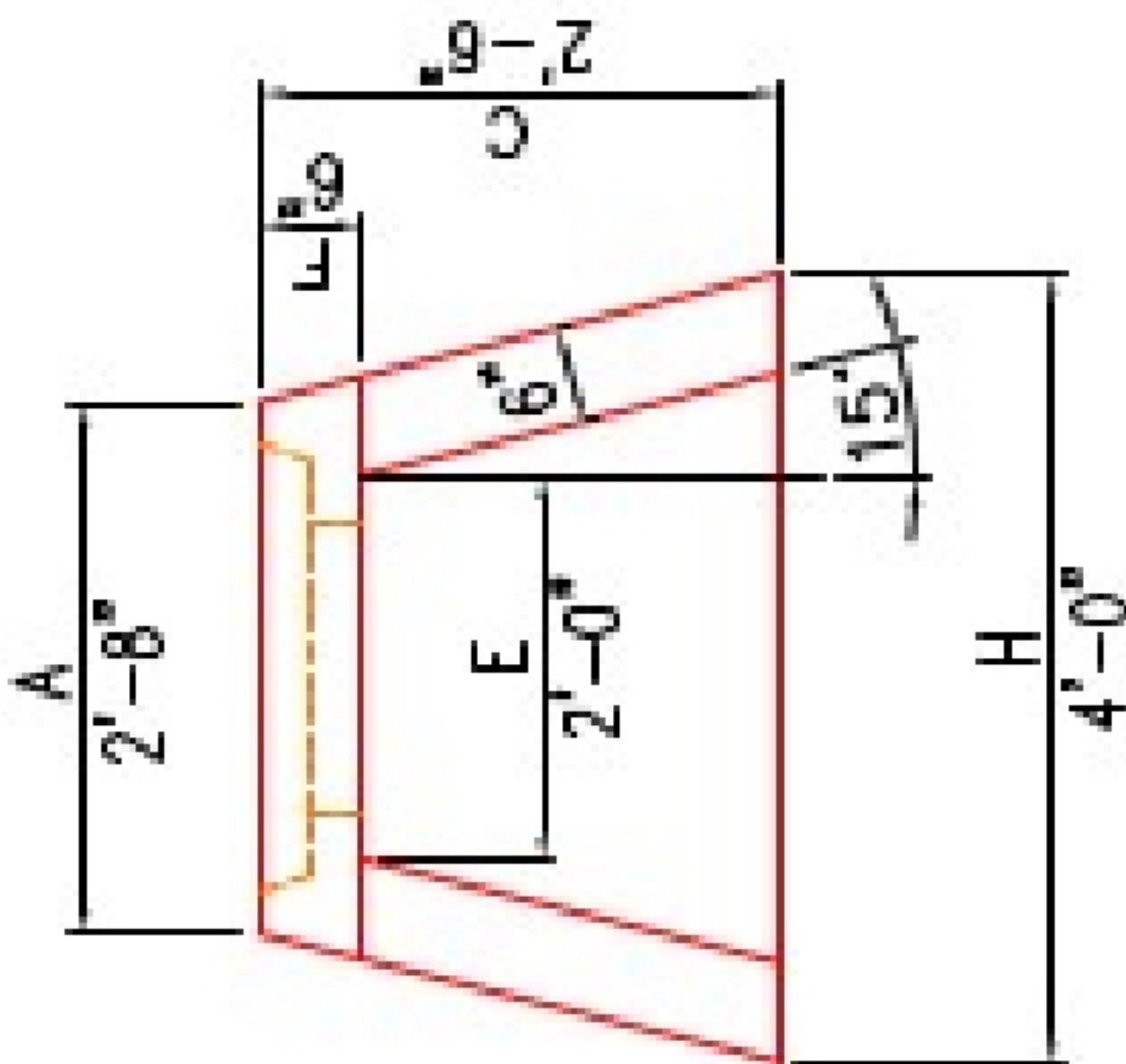
**18" - HW AW w/FLAT BOTTOM F/F**

**DIMENSIONS & QUANTITIES**

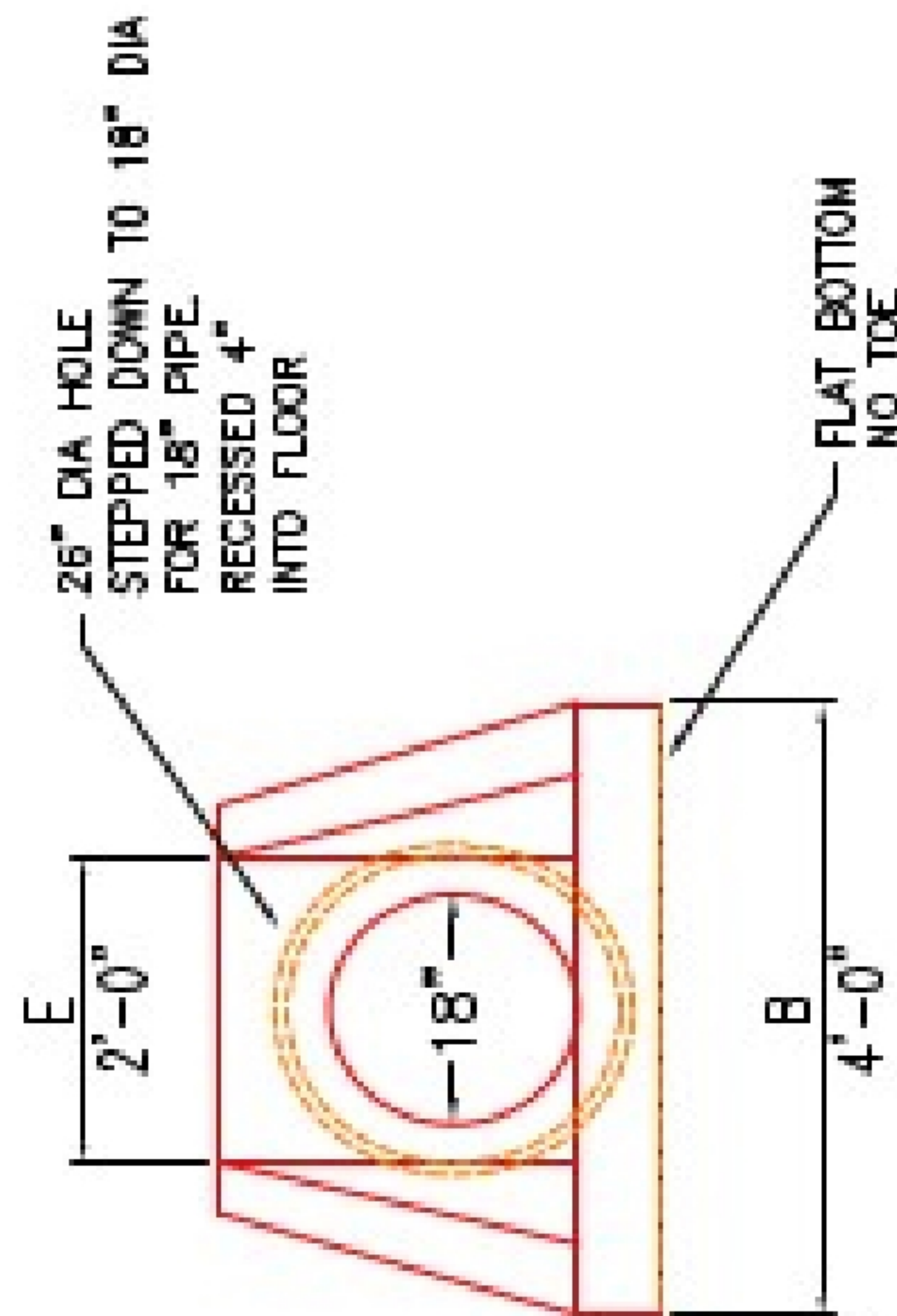
TYPE	PIPE Ø	A	B	C	D	E	F	G	H	WEIGHT W/TOE	WEIGHT
AW	18"	2'-8"	2'-8"	2'-6"	2'-2"	2'-0"	6"	0"	4'-0"	1,830 LBS.	1,380 LBS.

**NOTES:**

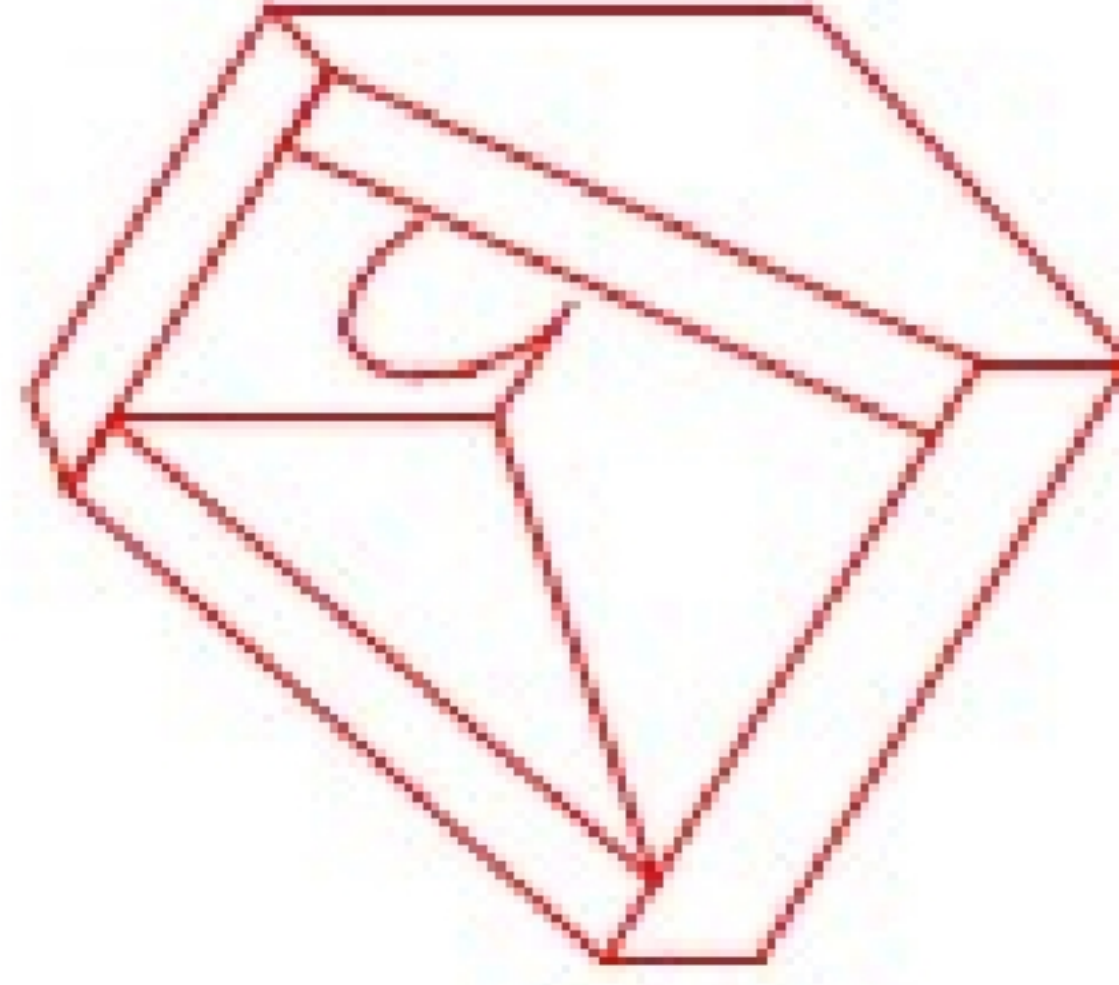
1. CONCRETE: 4500 PSI AT 28 DAYS MINIMUM COMPRESSIVE STRENGTH.
2. REINFORCING: #4 BAR @ 12" C/C E.W.-GRADE 60, (WITH 2" CONCRETE COVER MINIMUM)
3. REINFORCING BARS TO BE TACK WELDED OR TIED.
4. PIPE AND LIFTING ANCHOR POCKETS TO BE GROUTED WITH NON-SHRINK GROUT AFTER SETTING.
5. PREFORMED STEPPED HOLE SIZED AS PER O.D. OF PIPE + 3" - 4".
6. OPTIONAL FOOTING (TOE) AVAILABLE FOR ALL SIZES.



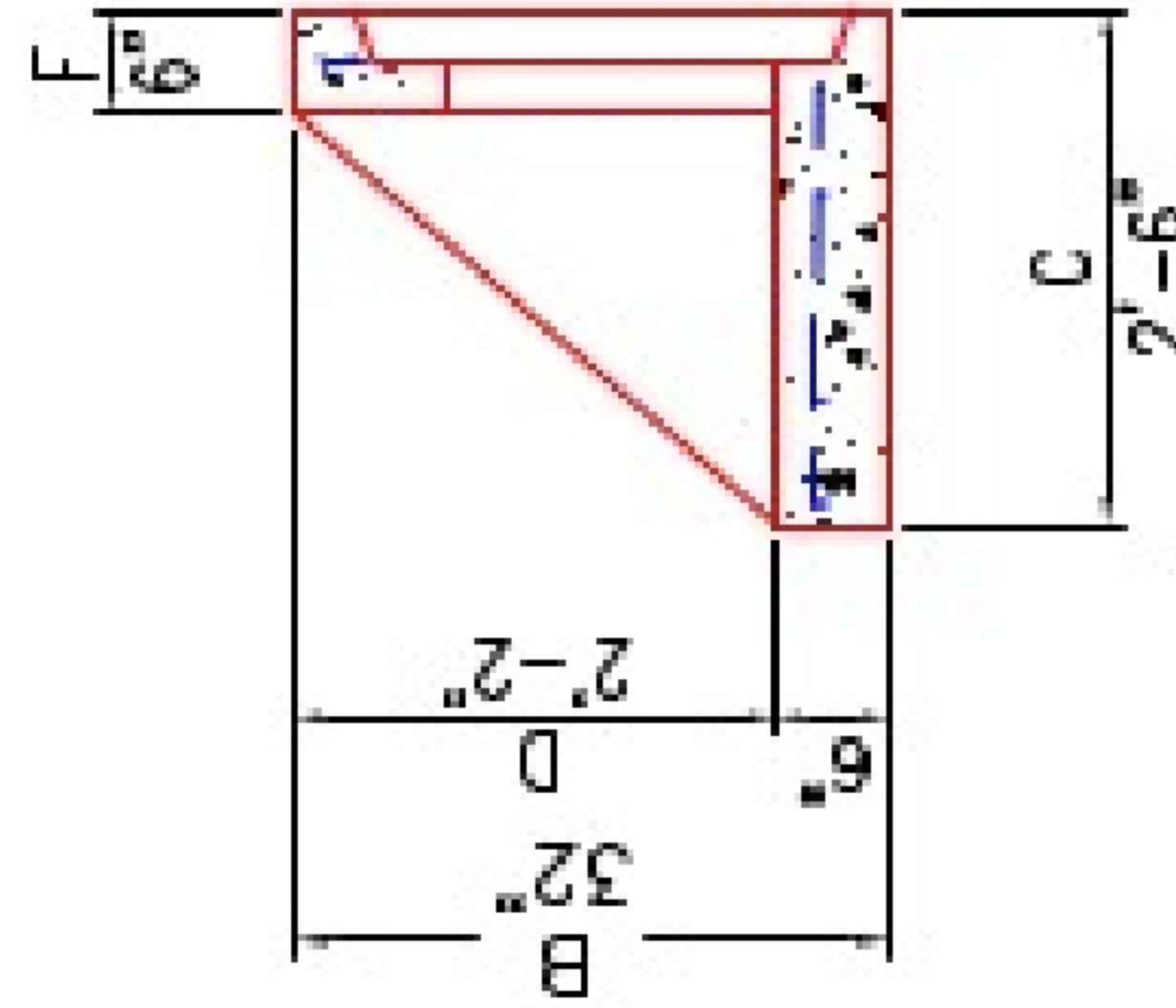
**PLAN VIEW**



**FRONT ELEVATION**



**ISOMETRIC VIEW**



**SECTION A-A**

**PRODUCTION WORK ORDER**

**QUALITY CONTROL CHECKLIST**

- ALL DIMENSIONS CORRECT.
- LIFTERS INSTALLED.
- STEPPED HF CORRECT SIZE.
- REINFORCING CORRECT.
- CLEARANCE ON REINFORCING CORRECT.
- EDGES CHAMFERED.
- ALL PATCHWORK ACCEPTABLE.



DESCRIPTION: 18in AW WINGED HEADWALL, FLAT

CUSTOMER: STOOK  
 PROJECT: STOOK  
 STRUCTURE ID.: T.B.D.  
 SALES ORDER NO: T.B.D.  
 PC: B. KELLY  
 DRAWING: J. HORSLEY  
 DATE: 10/30/23  
 SCALE: NTS  
 PG. 1 of 1

**Structure ID: CB13 - add 48in HT Riser**

**P2 BX2896-06RVF**

**BOX RISER 6inW, Variable Ht F/F**

- |  |   |
|--|---|
| P3) 28" x 96" - CASTING HEIGHT - 6"<br>P2) 28" x 96" - BOX RISER 6inW, Variable Ht F/F - 48"<br>P1) 28" x 96" - BOX BASE 6inW, 6inF, Variable Ht F/n - 24"<br>1) CASTING - JBS 3101 Triple Set (F/G/H)<br>1) Hole - 22<br>4) LINTEL BAR SLOT n/n - 7"x1" | 0 lb<br>6559 lb<br>5270 lb<br>1857 lb<br>0 lb<br>0 lb<br>-----<br>Structure Total: 13687 lb |
|--|---|

Structure Notes:

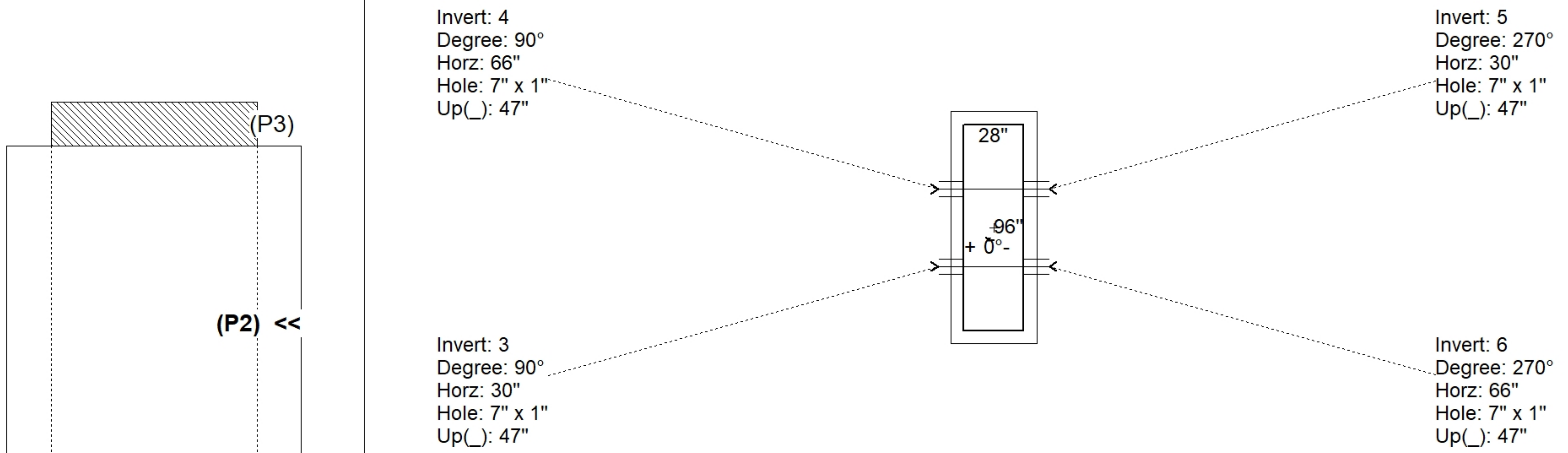
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. CASTING BY ICAST (3ea. JBS 3101 F/G/H)

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.

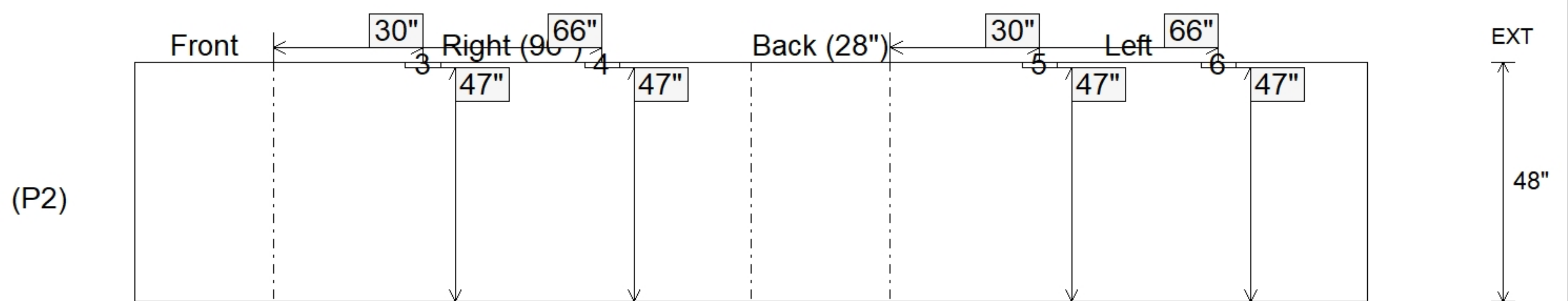
Rim: 570.34' Rim to Invert: 6.39' Slack: 0.936" Sump: 2.256" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1										
Invert 2										
Invert 3	569.68'	90°	36"	7" x 1" LINTEL BAR SLOT	7" x 1"	LINTEL BAR SLOT 7"x1"	7" x 1"	7"	47"	-18"
Invert 4	569.68'	90°	72"	7" x 1" LINTEL BAR SLOT	7" x 1"	LINTEL BAR SLOT 7"x1"	7" x 1"	7"	47"	18"
Invert 5	569.68'	270°	36"	7" x 1" LINTEL BAR SLOT	7" x 1"	LINTEL BAR SLOT 7"x1"	7" x 1"	7"	47"	-18"
Invert 6	569.68'	270°	72"	7" x 1" LINTEL BAR SLOT	7" x 1"	LINTEL BAR SLOT 7"x1"	7" x 1"	7"	47"	18"
Invert 7										
Invert 8										

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



**INSIDE WALL DIMENSIONS**



Coating (Int):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 6" Floor Height: 0"	Height (Int): 48" Height (Ext): 48"
Coating (Ext):			Weight (Net): 6559 lb Volume (Net): 1.68cu.yd

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

Plant: Beaver Dam  
 5/8/2026 8:06:41 AM

Tech: S. Felletter  
 PC: T. Lewis



**Structure ID: JB1**

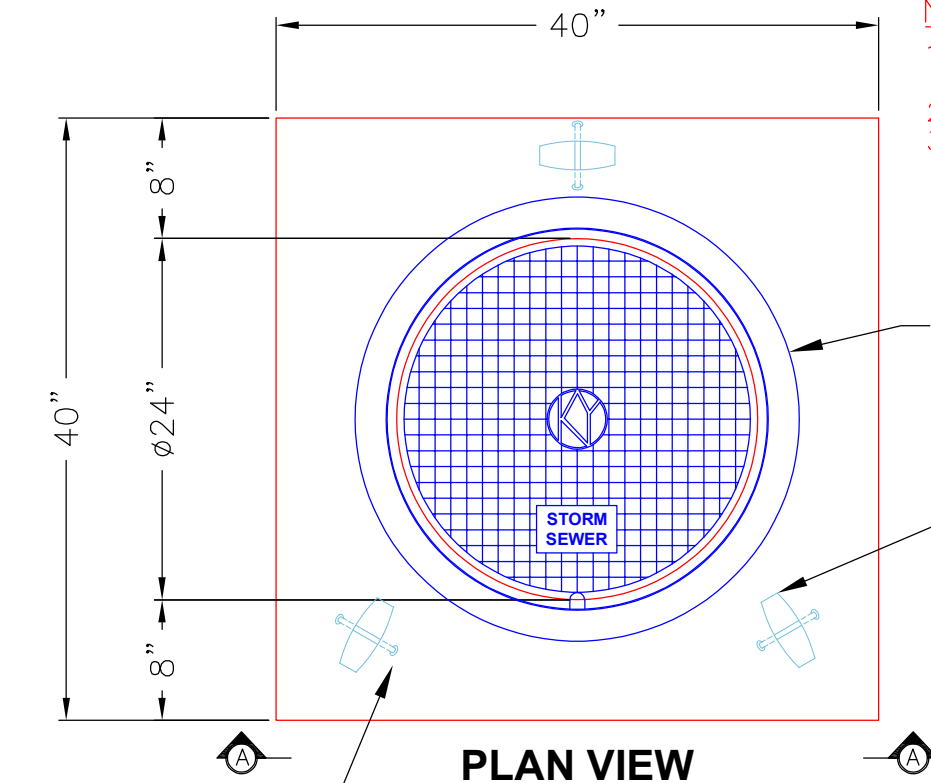
**P2 BXLD2424FL-24**

**BX FLAT LID 8inW SPEC. (KY JB-B1) F/F**

- P3) CASTING (cast in) - 0
- P2) 24" x 24" - BX FLAT LID 8inW SPEC. (KY JB-B1) F/F - 8"
- P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 41"
- 1) CASTING - HOE KY-206 F/C (KY TY1)
- 1) This Structure Includes a Cast-in Item
- 1) 24" x 24" - SGL 1"x14.5' Butyl
- 2) Hole - 18
- 1) Hole - 20

0 lb  
 770 lb  
 3997 lb  
 206 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 4973 lb

Structure Notes:  
 1. KYTC JUNCTION BOX B1 / PER ASTM C913 SPEC'S.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. TOP SLAB w KYTC TYPE 1 F/C CAST FLUSH (HOE KY-206 F/C).  
 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.



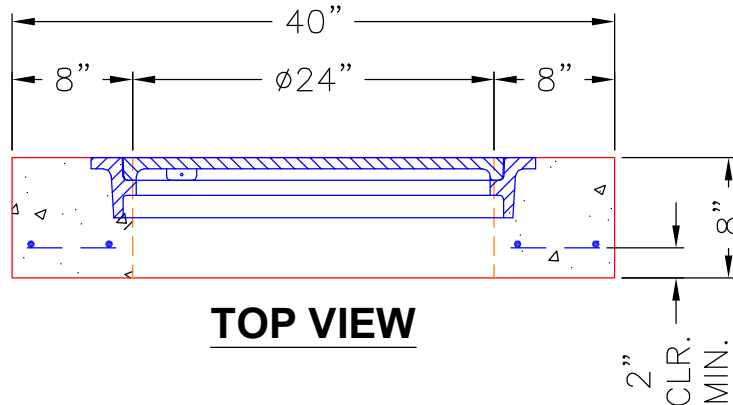
NOTES:

- 1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
- 2. CONCRETE: 4,000 PSI AT 28 DAYS.
- 3. REINFORCING: #5 BAR @ 6" C.C. E.W. (GRADE 60).

HOE KY-206 Ø24" FRAME  
 CAST-IN AS SHOWN

3 EA. CONAC 5CA14  
 A-ANCHORS FOR HANDLING.

BRUSHED FINISH



**TOP VIEW**

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 770 lb  
 Volume (Net): 0.2cu.yd

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

Plant: Beaver Dam  
 5/8/2026 12:16:34 PM

Tech: S. Felletter  
 PC: T. Lewis



**Structure ID: DB4**

**P2 BX024024-08LD08-14**

**CB FLAT TOP 8"W (HOE KY-215 F&G) F/F**

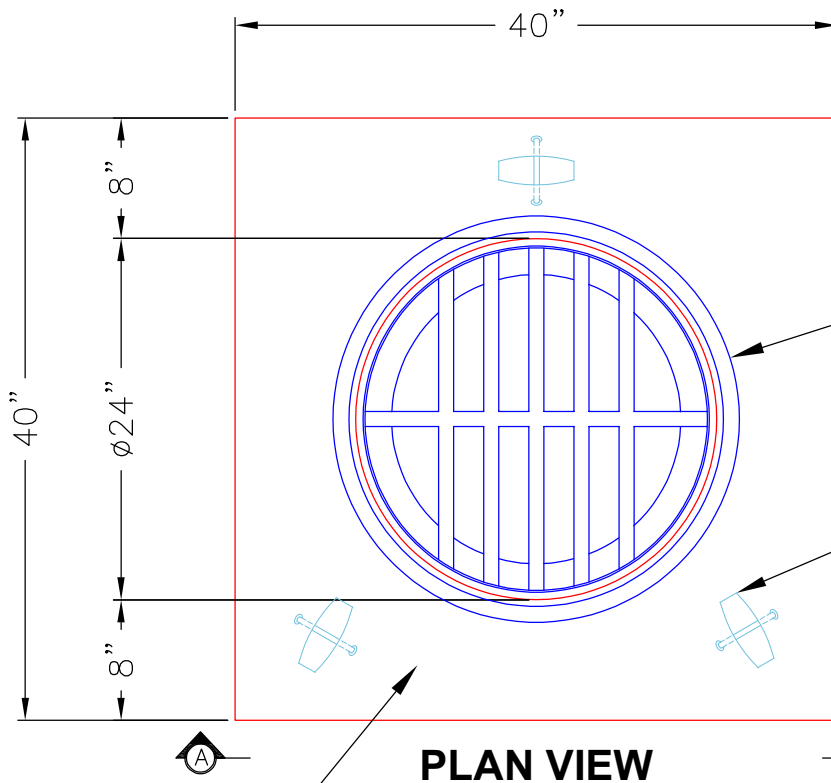
- P2) 24" x 24" - CB FLAT TOP 8"W (HOE KY-215 F&G) F/F - 8"  
 P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 29"
- 1) This Structure Includes a Cast-in Item
  - 1) CASTING - HOE KY-215 F/BEEHIVE (DBI 15)
  - 1) 24" x 24" - Conseal CS-102 1.00"
  - 2) Hole - 20
  - 1) Hole - 8

770 lb  
 3137 lb  
 0 lb  
 317 lb  
 0 lb  
 0 lb  
 0 lb  
 0 lb

Structure Total: 4224 lb

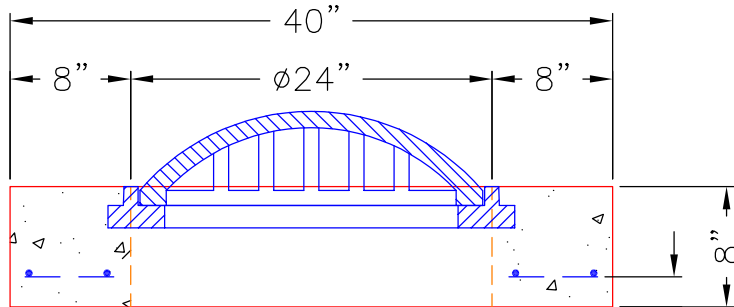
- Structure Notes:**
1. KYTC DBI TYPE 15 / ASTM C913 SPECIFICATIONS
  2. CONCRETE = 4,000 PSI AT 28 DAYS.
  3. NO INVERT CHANNEL.
  4. DBI-15 F/G CAST INTO TOP SLAB (HOE KY-215 F/G BEEHIVE).

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.



**PLAN VIEW**

BRUSHED FINISH



**TOP VIEW**

2" CLR. MIN.

**NOTES:**

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 6" C.C. E.W. (GRADE 60).

HOE KY-215 BH  $\phi$ 24" FRAME CAST-IN AS SHOWN

3 EA. CONAC 5CA14 A-ANCHORS FOR HANDLING.

Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 770 lb  
 Volume (Net): 0.2cu.yd

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

Plant: Beaver Dam  
 5/8/2026 8:06:41 AM

Tech: S. Felletter  
 PC: T. Lewis



**Structure ID: DB3**

**P2 BX024024-08LD08-14**

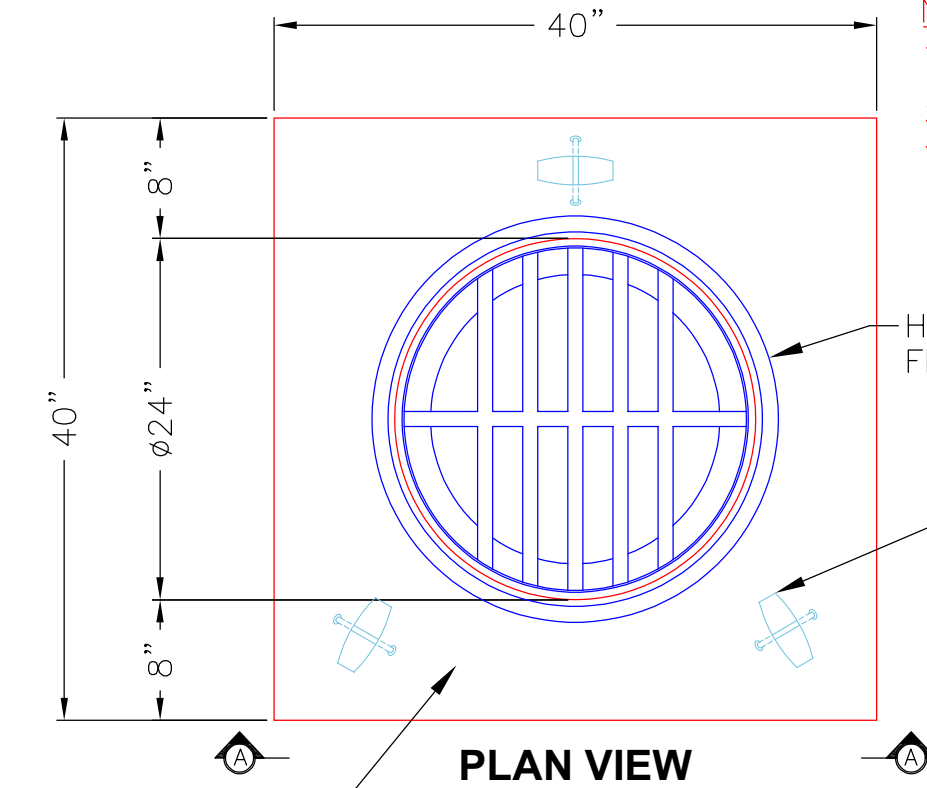
**CB FLAT TOP 8"W (HOE KY-215 F&G) F/F**

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.



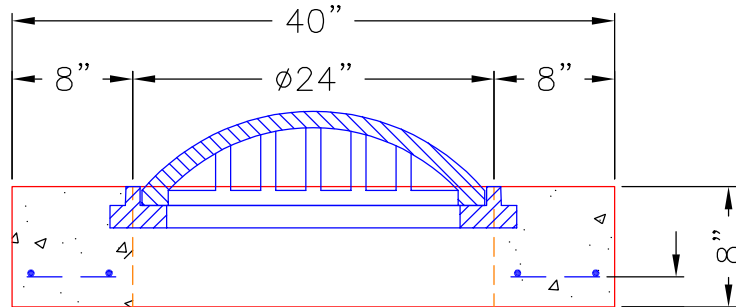
**NOTES:**

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 6" C.C. E.W. (GRADE 60).

HOE KY-215 BH Ø24"  
 FRAME CAST-IN AS SHOWN

3 EA. CONAC 5CA14  
 A-ANCHORS FOR HANDLING.

BRUSHED FINISH



**TOP VIEW**

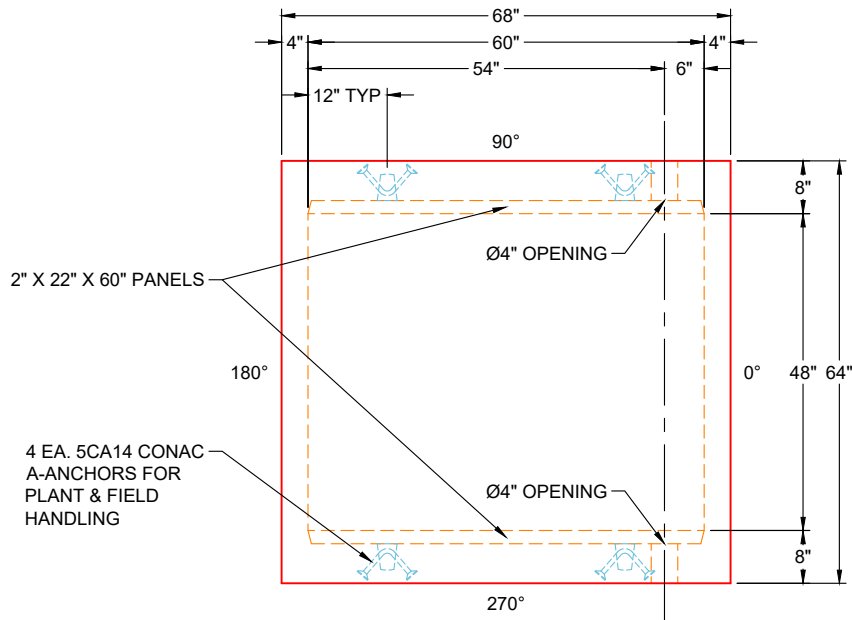
Coating (Int):  
 Coating (Ext):

Seam Up: Flat  
 Seam Dn: Flat

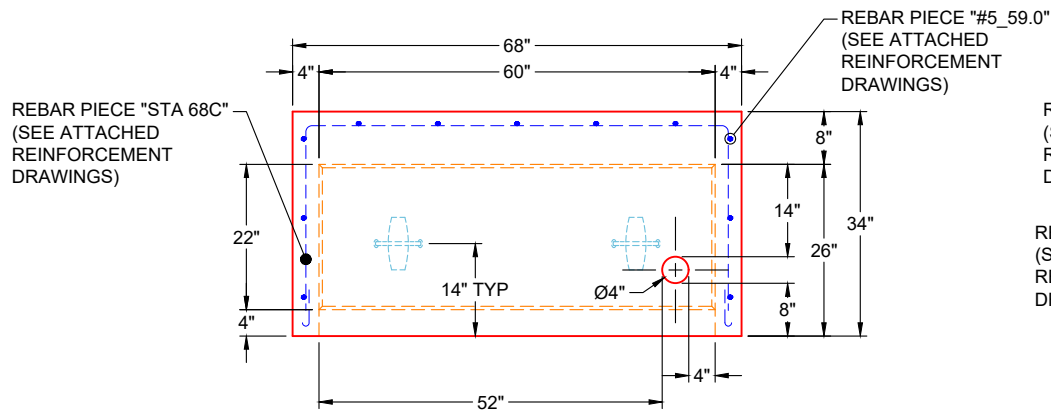
Wall Thickness: 8"

Height (Ext): 8"

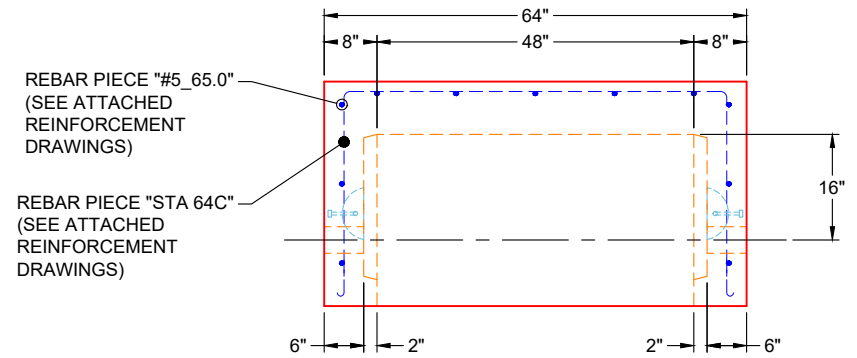
Weight (Net): 770 lb  
 Volume (Net): 0.2cu.yd



**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 1 (EFX-60 STATIONARY VAULT)

TOP SECTION JOINT: N / A

ORDER NO: 26-1618

BASE SECTION JOINT: FLAT

PE: J.H. ROSS

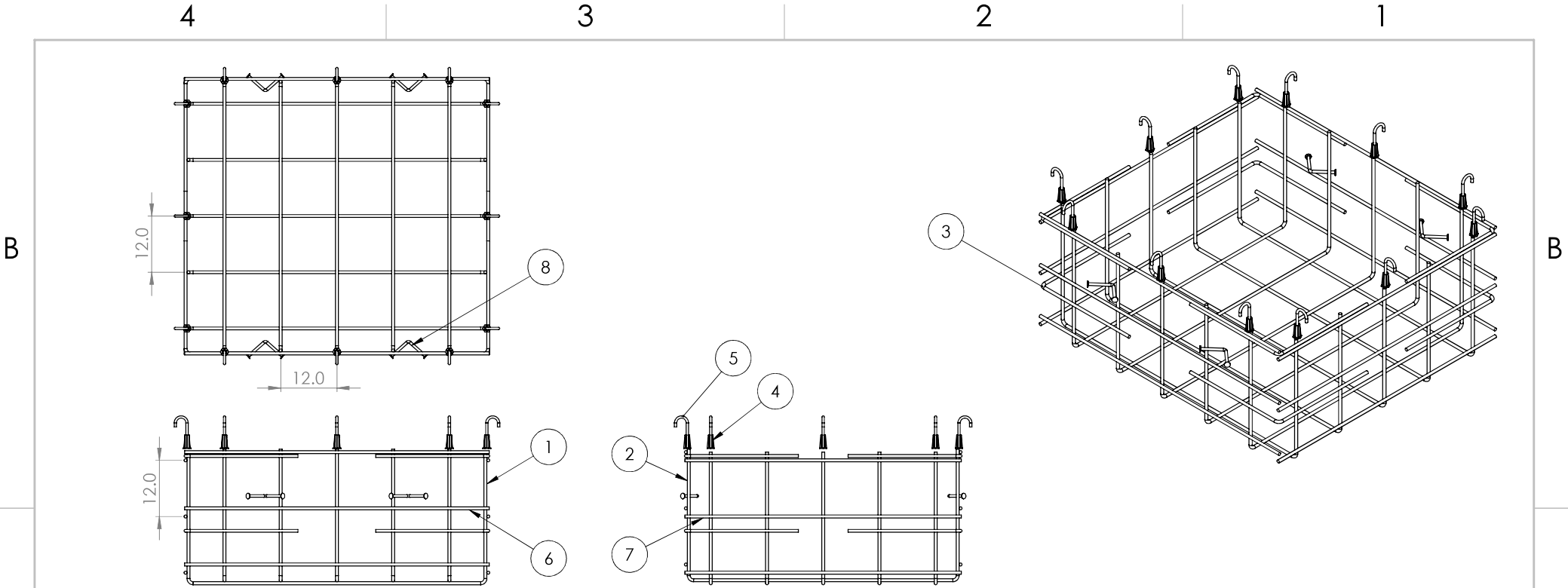
DRAWING: J. HORSLEY

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	<h1>ENDESOL</h1> <p>TITLE: EFX-60 Stationary Rebar Detail</p> <p>SIZE DWG. NO. REV  <b>B</b> EFX-60 STA Rebar <b>X2</b></p> <p>SCALE: 1:20 WEIGHT: SHEET 1 OF 1</p>	
		DIMENSIONS ARE IN INCHES	DRAWN	CMJ		3-25-16
		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			

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

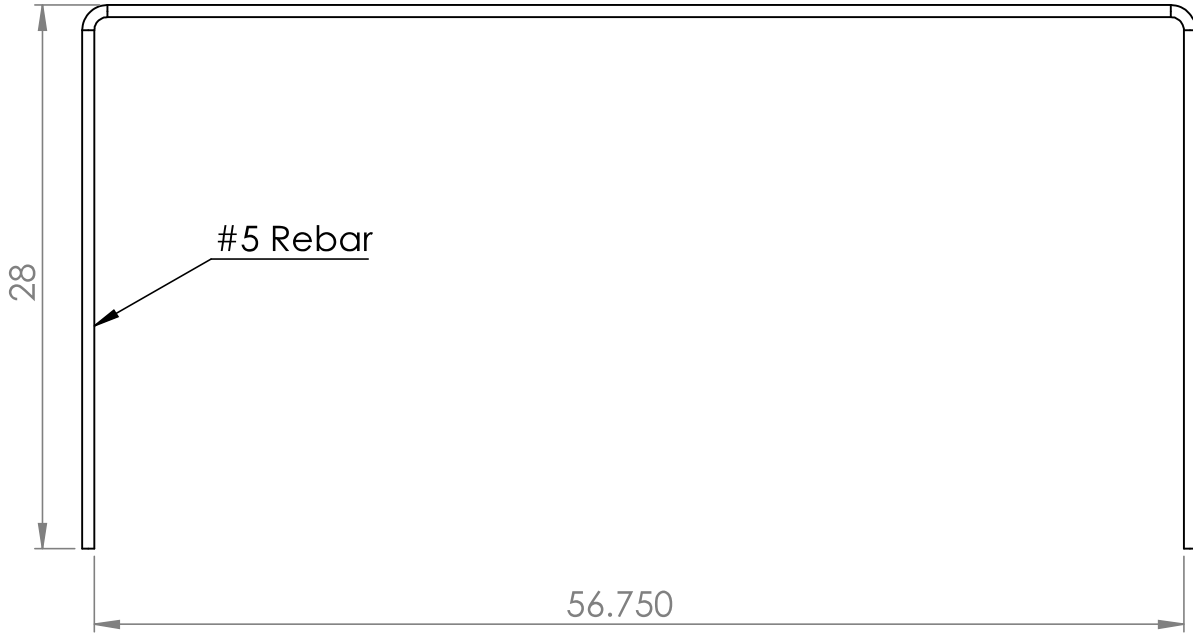
1

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

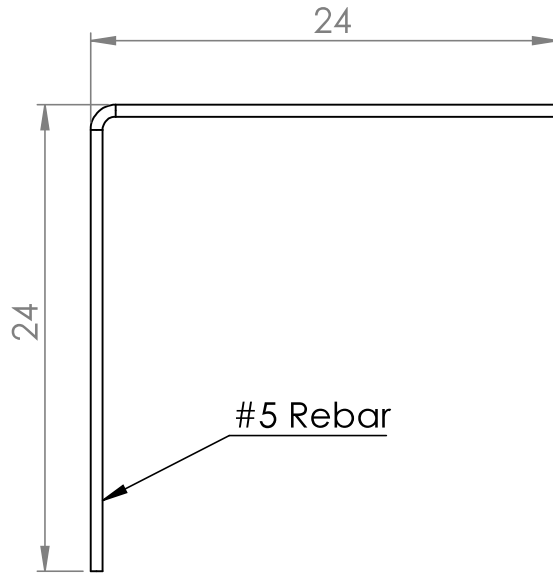
1

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:**

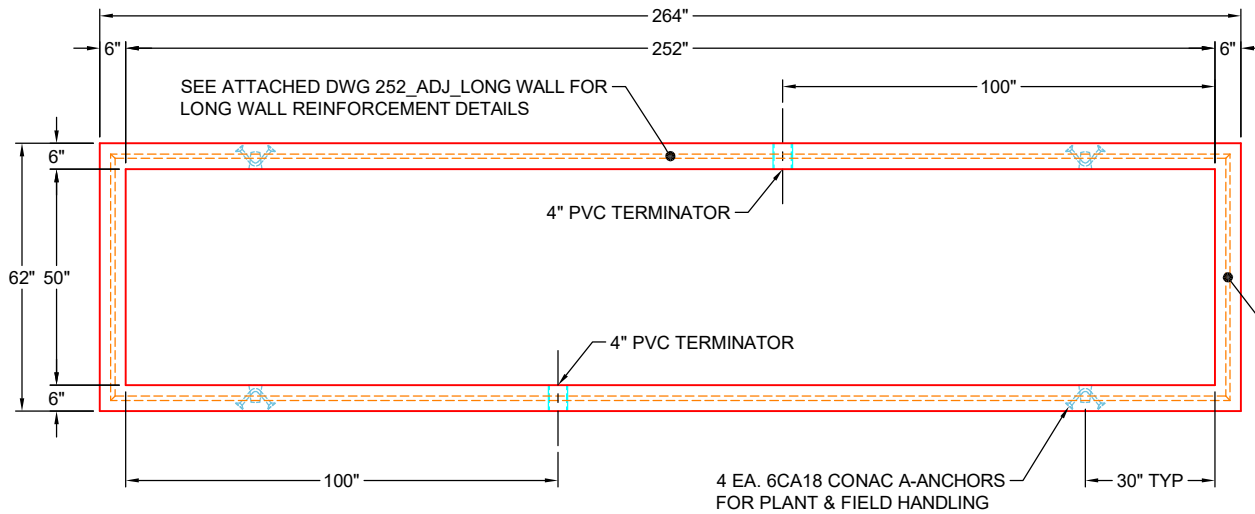
4-23 691254775

**Structure:**

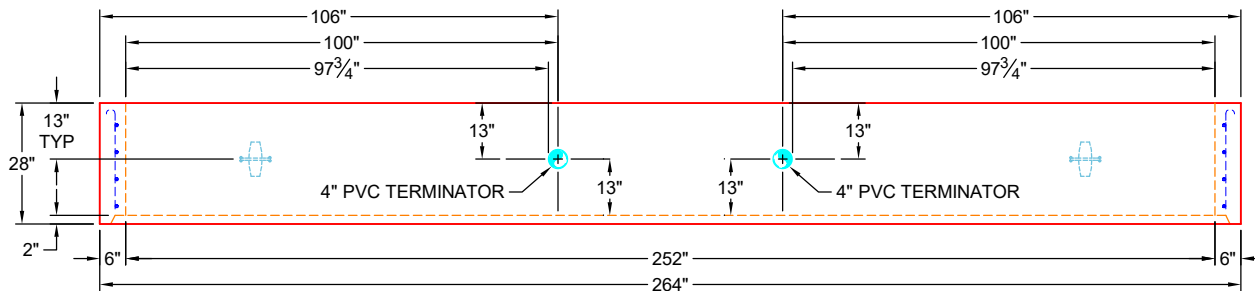
4-61618 1

**Note:**

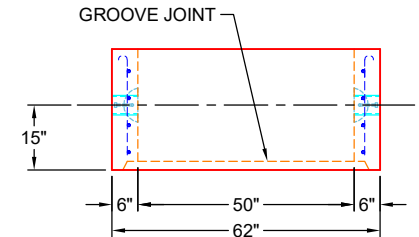
Nosing Kit To Be Shipped. See Chad Jarvis.



**PLAN VIEW  
(RIGHT SIDE UP)**



**FRONT VIEW  
(RIGHT SIDE UP)**



**SIDE VIEW  
(RIGHT SIDE UP)**

**GENERAL NOTES:**

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION)
2. CONCRETE: 5,000 PSI AT 28 DAYS
3. REINFORCEMENT - MIN. 1½" REBAR  
CLEARANCE:  
- LONG WALLS: PER ATTACHED DWG 252\_ADJ\_LONG WALL  
- SHORT WALLS: PER ATTACHED DWG SHORT WALL
4. WEIGHTS: 9,178 LBS

**PRODUCTION WORK ORDER**

PRODUCT I.D.: CVR

DESCRIPTION: 50" X 252" X 28" RISER



**QUALITY CONTROL CHECKLIST**

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

PRODUCT VIEW: UPSIDE DOWN

CUSTOMER: ENDESOL, INC.

PLANT: BEAVER DAM, KY

PROJECT: 4-23 691254775

WEIGHT: 9,178 LBS

STRUCTURE: 2-61618 1 (EFX-60 21 PN VAULT)

TOP SECTION JOINT: GROOVE

ORDER NO: 26-1618

BASE SECTION JOINT: N / A

PE: J.H. ROSS

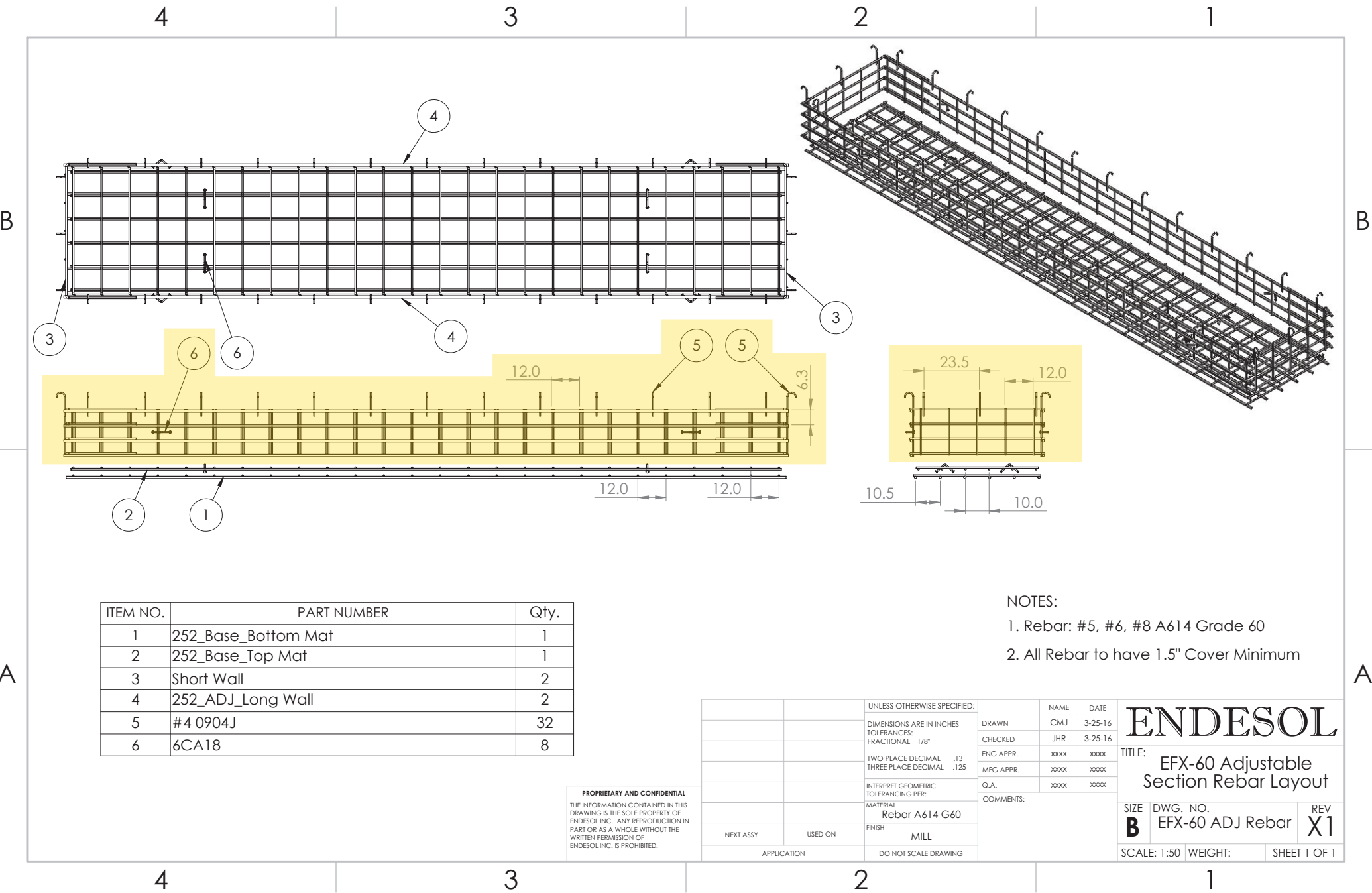
DRAWING: J.HORSLEY

QC CHECK INITIALS:

DATE: 04/24/26

SCALE: NTS

PG. 1 OF 1



ITEM NO.	PART NUMBER	Qty.
1	252_Base_Bottom Mat	1
2	252_Base_Top Mat	1
3	Short Wall	2
4	252_ADJ_Long Wall	2
5	#4 0904J	32
6	6CA18	8

- NOTES:
1. Rebar: #5, #6, #8 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		Rebar A614 G60		
FINISH		MILL		
NEXT ASSY	USED ON	APPLICATION		
DO NOT SCALE DRAWING		TITLE: EFX-60 Adjustable Section Rebar Layout		
SIZE <b>B</b>	DWG. NO. EFX-60 ADJ Rebar	REV <b>X1</b>	SCALE: 1:50 WEIGHT: SHEET 1 OF 1	

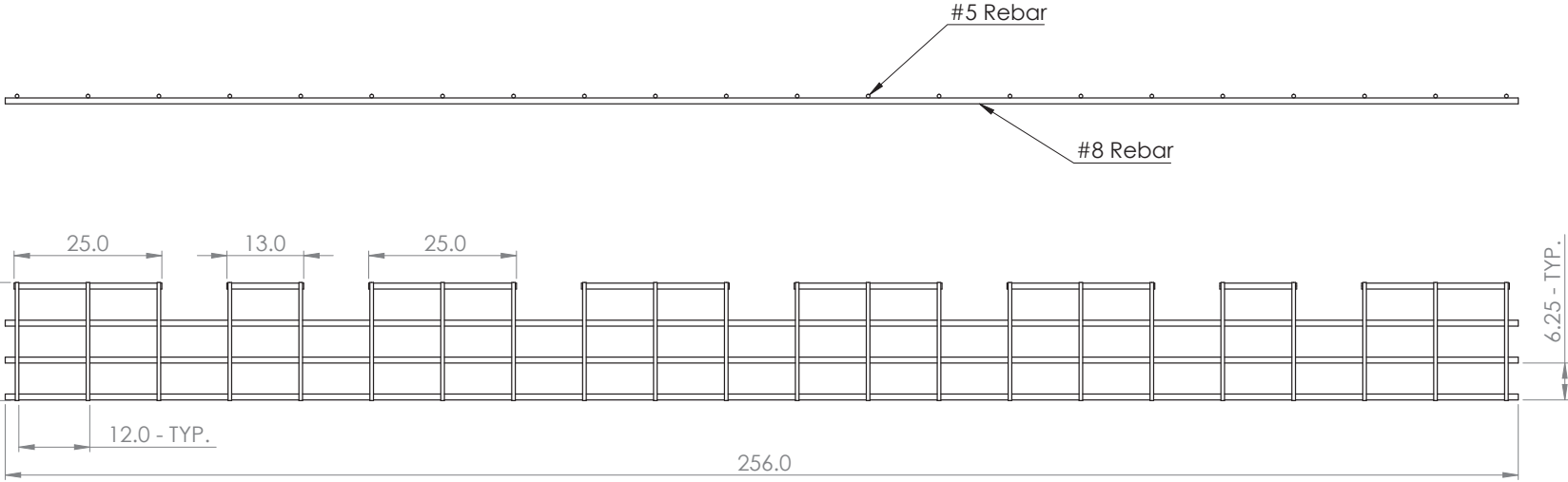
4

3

2

1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	#8_256.0	#8 Rebar	3
2	#5_20.0	#5 Rebar	22
3	#8_25.0	#8 Rebar	6
4	#8_13.0	#8 Rebar	2



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 ±  
 DECIMAL ± 0.5"

MATERIAL

FINISH  
 DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	CMJ	8/3/20
CHECKED	JHR	8/3/20
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

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 DWG. NO. REV.  
**B** 252\_ADJ\_Long Wall  
 SCALE: 1:50 WEIGHT: SHEET 1 OF 1

4

3

2

1

B

B

A

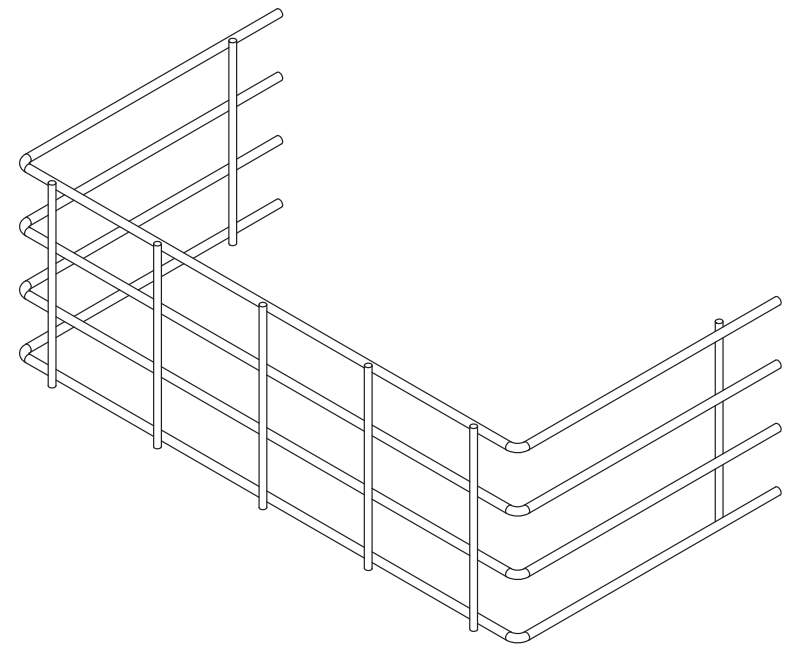
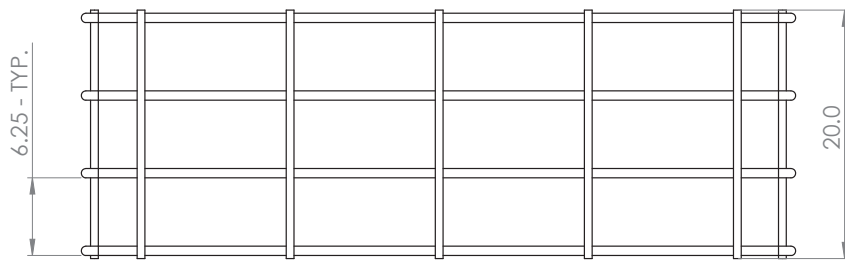
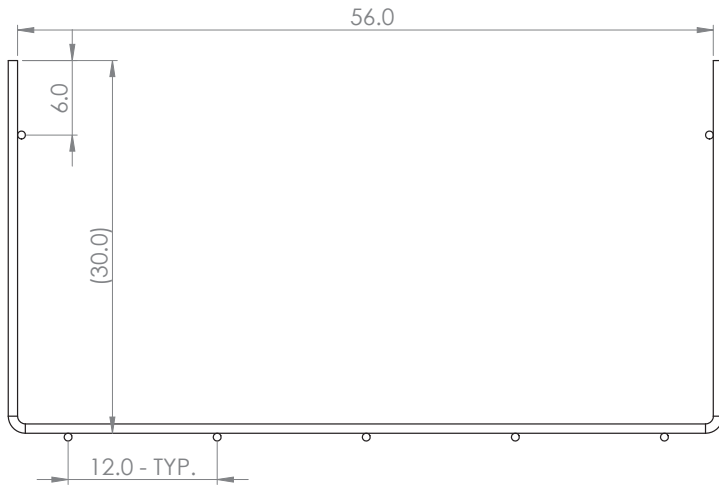
A

4


3

2

1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	6SH	#6 Formed Rebar	4
2	#5_20.0	#5 Rebar	7



**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 ±

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

**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.

SCALE: 1:10    DWG. NO. **B**    Short Wall    REV.    SHEET 1 OF 1

4

3

2

1

B

B

A

A

**Job Number:**

26-1618

**Job Name:**

4-23 691254775

**Structure:**

2-61618 1

**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 8:17:54 PM

Tech: Jared - F

PC: E. Bradley



**Structure ID: METER VAULT - 6**

**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

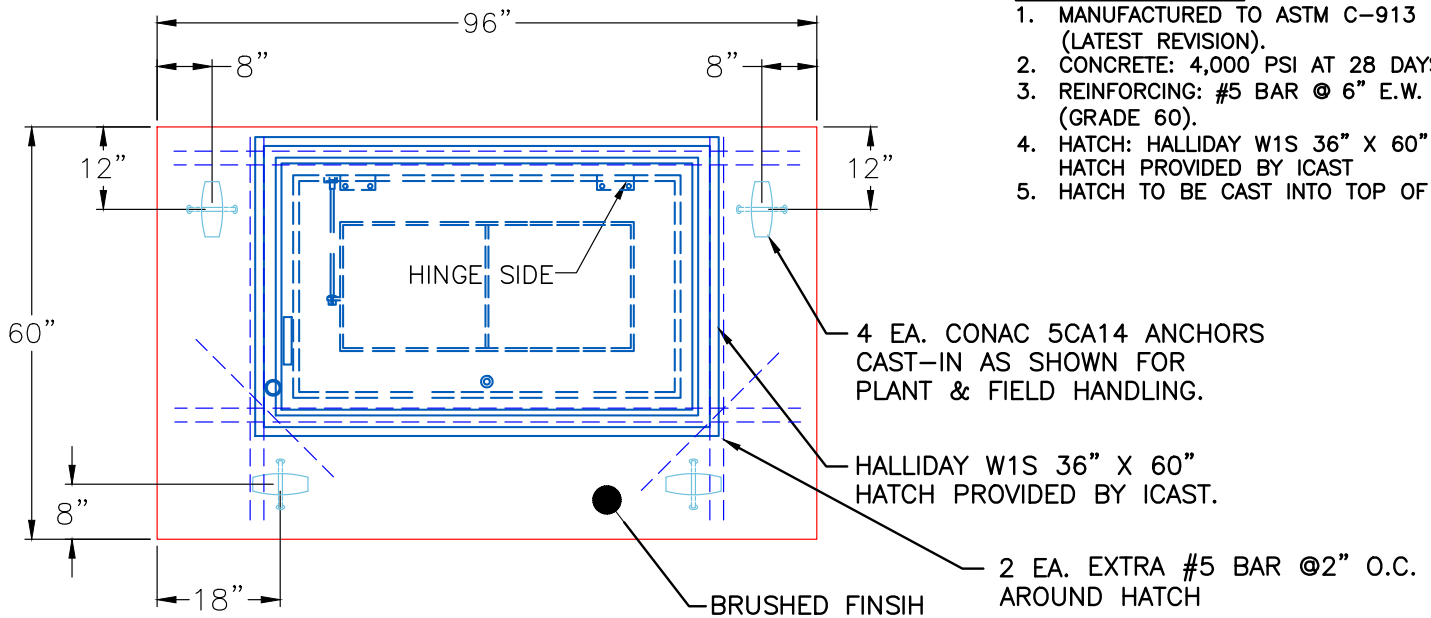
100 lb  
 2417 lb  
 10702 lb  
 116 lb  
 0 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 13334 lb

**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").

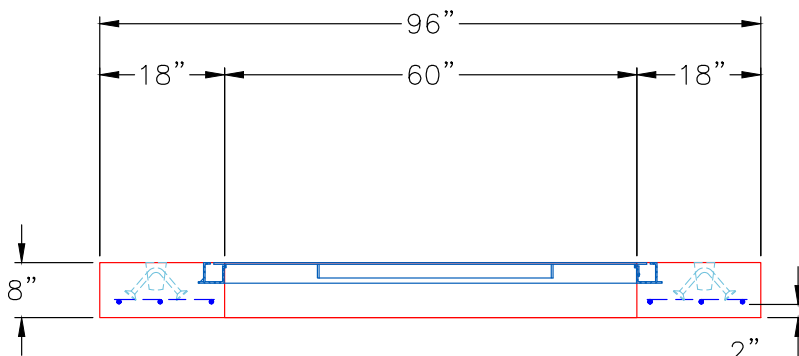
REINFORCING PER ASTM A615 (GRADE 60).  
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.  
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.  
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

**GENERAL NOTES:**

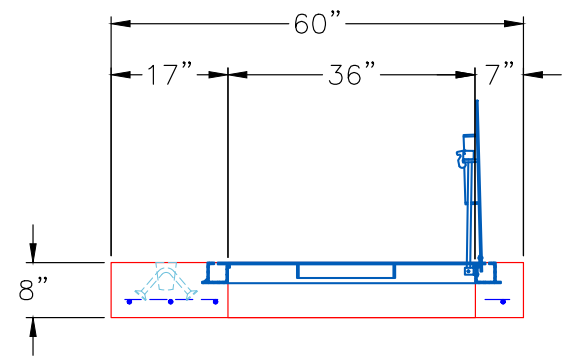
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 6" E.W. O.C. (GRADE 60).
4. HATCH: HALLIDAY W1S 36" X 60" HATCH PROVIDED BY ICAST
5. HATCH TO BE CAST INTO TOP OF LID.



**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 8:17:54 PM

Tech: Jared - F

PC: E. Bradley



**Structure ID: METER VAULT - 7**

**P2 BX4884-06LD08-SP**

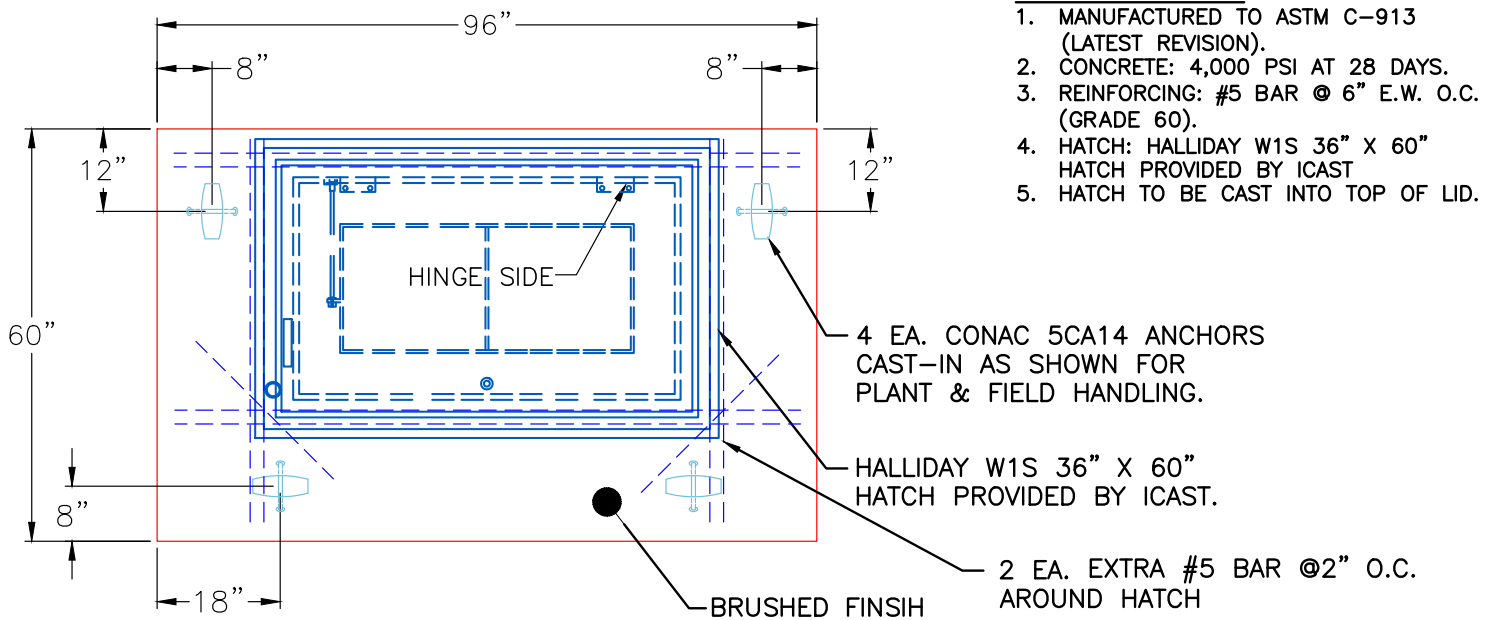
**CB FLAT TOP 6"W w/36"x60" HATCH F/F**

- 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

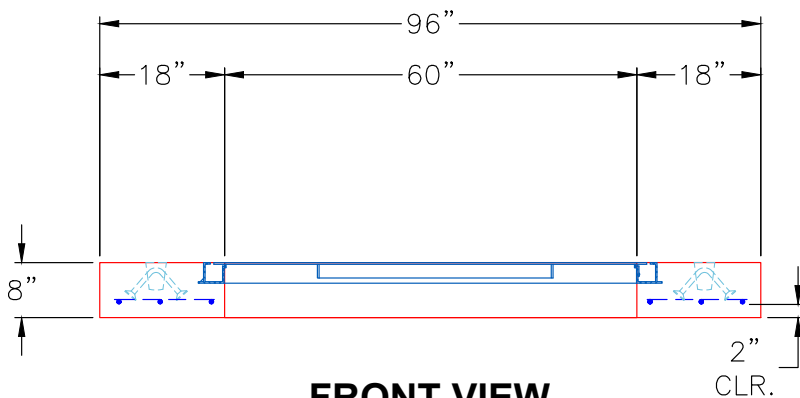
**Structure Notes:**  
 1. PER ASTM C913 SPECIFICATIONS.  
 2. CONCRETE = 4,000 PSI AT 28 DAYS.  
 3. NO STEPS AND NO INVERT CHANNEL.  
 4. HATCH SUPPLIED BY ICAST (HALLIDAY W1S 36"x60").

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.

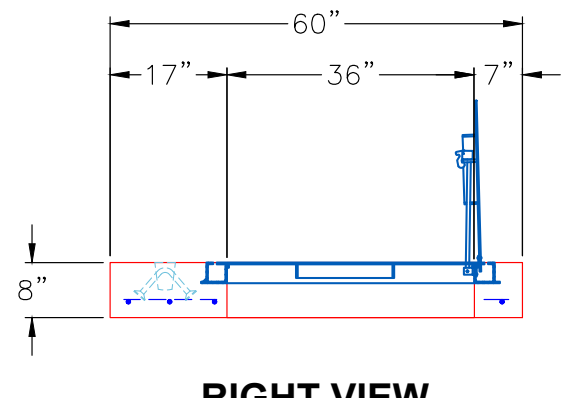


- GENERAL NOTES:**
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
  2. CONCRETE: 4,000 PSI AT 28 DAYS.
  3. REINFORCING: #5 BAR @ 6" E.W. O.C. (GRADE 60).
  4. HATCH: HALLIDAY W1S 36" X 60" HATCH PROVIDED BY ICAST
  5. HATCH TO BE CAST INTO TOP OF LID.

**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