

Job Name: 26-1987 Project Nova
Job Location: 200 South, IN 47882
Contractor: McCreary Concrete Products, Inc

Plant: 100
8/7/2026 10:53:41 AM

Tech: Jared - A
PC: Jay Ross Jarvis



Structure ID: STMH-1209A

P1 MH108BAVF

MH BASE Custom Ht

P6) 24" x 36" - CASTING HEIGHT - 6"
P5) 108" - MH FLAT TOP w/24" X 36" HOLE - 17"
P4) 108" - MH RISER - 54"
P3) 108" - MH RISER - 54"
P2) 108" - MH RISER - 96"
P1) 108" - MH BASE Custom Ht - 96"
4) 108" - Conseal CS-102 1.00"
1) 24" x 36" - Conseal CS-102 1.00"
1) Hole - 75
1) Hole - 62
26) MH Step ML-10-TDS-NCR - 10"

0 lb
12900 lb
16798 lb
16798 lb
29863 lb
36119 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb

Structure Notes: .
INDOT STATE PROJECT
1. INDOT MH TYPE M / ASTM C478 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB = H20 LOADING.
- RISER/WALLS (As .30)
- FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

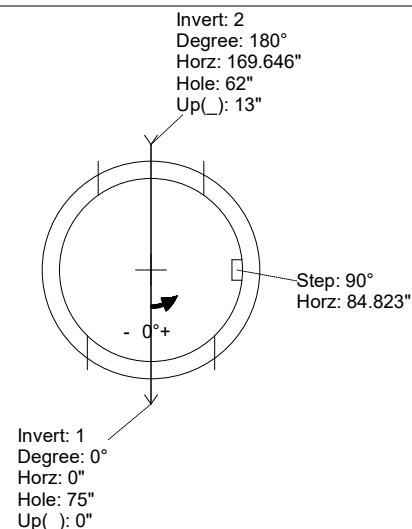
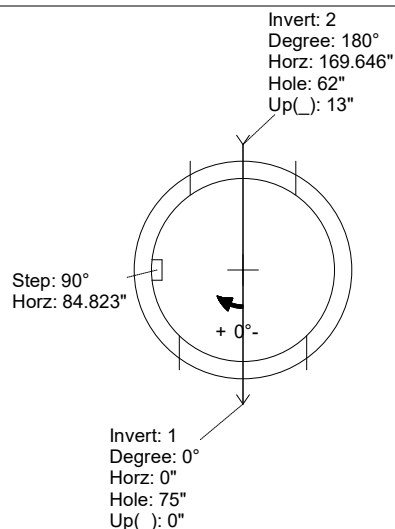
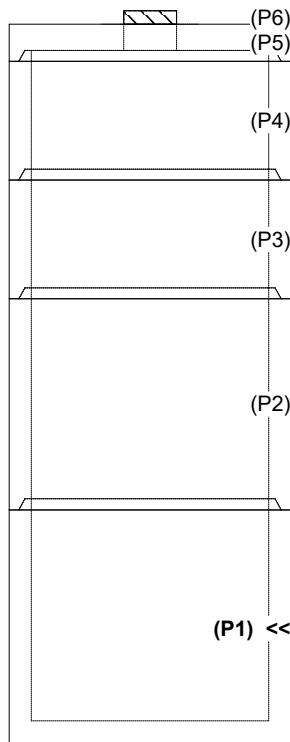
Structure Total: 112477 lb

Rim: 512.46' Rim to Invert: 26.45' Slack: 0.4" Sump: 6" Step Position: 90°

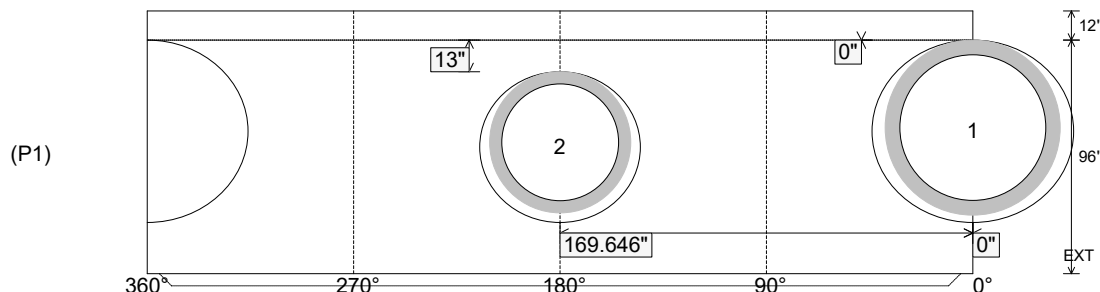
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	486.01'	0°	0"	60" RCP B WALL	72"	Hole 75	75"	82.906"	0"	0"
Invert 2	487.01'	180°	201.062"	48" RCP B WALL	58"	Hole 62	62"	66.039"	13"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
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: 10"
Floor Height: 12"

Height (Int): 96"
Height (Ext): 108"

Weight (Net): 36119 lb
Volume (Net): 9.23cu.yd

Job Name: 26-1987 Project Nova
Job Location: 200 South, IN 47882
Contractor: McCreary Concrete Products, Inc

Plant: 100
8/7/2026 10:53:40 AM

Tech: Jared - A
PC: Jay Ross Jarvis



Structure ID: STMH-1209

P1 MH120BVF MH BASE

- P5) 24" x 24" - CASTING HEIGHT - 7"
P4) 120" - MH FLAT TOP w/24"x24" Hole - 18"
P3) 120" - MH RISER Custom Ht - 35"
P2) 120" - MH RISER - 96"
P1) 120" - MH BASE - 96"
3) 120" - Conseal CS-102 1.00"
1) 24" x 24" - Conseal CS-102 1.00"
1) Hole - 90
2) Hole - 75
18) MH Step ML-10-TDS-NCR - 10"

- 0 lb
16553 lb
13296 lb
36468 lb
37205 lb
0 lb
0 lb
0 lb
0 lb
0 lb
- Structure Notes: .
INDOT STATE PROJECT
1. INDOT MH TYPE M / ASTM C478 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB = H20 LOADING.
- RISER/WALLS (As .30)
- FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

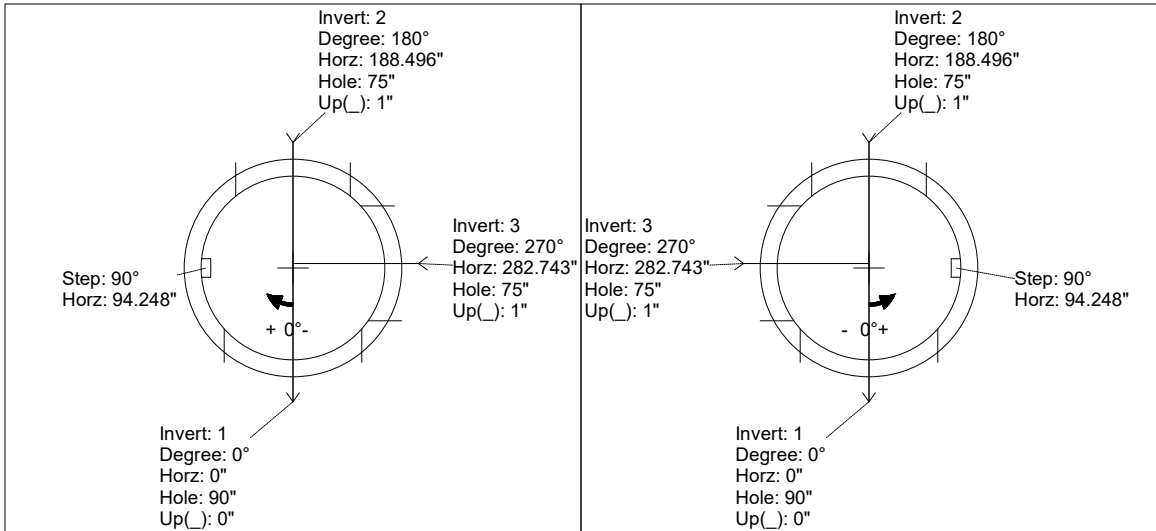
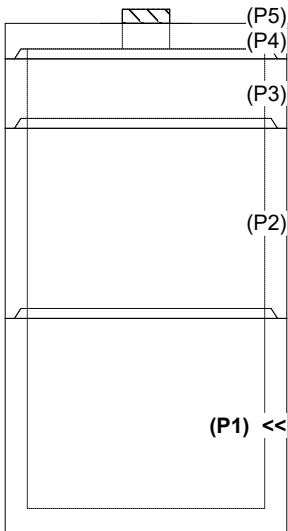
Structure Total: 103521 lb

Rim: 506.24' Rim to Invert: 20.49' Slack: 0.88" Sump: 7" Step Position: 90°

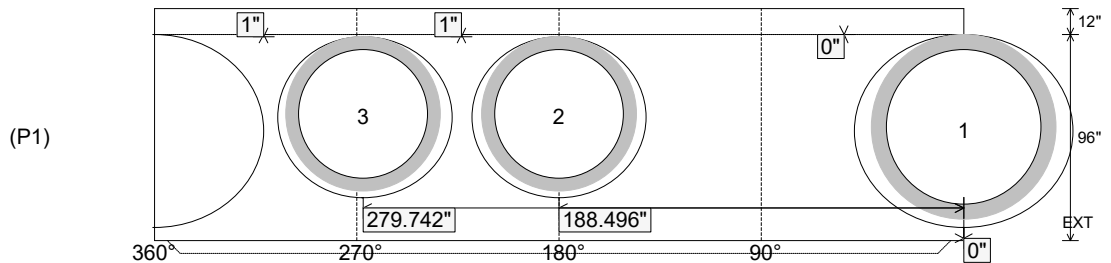
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	485.75'	0°	0"	72" RCP B WALL	86"	Hole 90	90"	101.767"	0"	0"
Invert 2	485.75'	180°	223.053"	60" RCP B WALL	72"	Hole 75	75"	81.016"	1"	0"
Invert 3	485.75'	270°	331.579"	60" RCP B WALL	72"	Hole 75	75"	81.214"	1"	-3"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

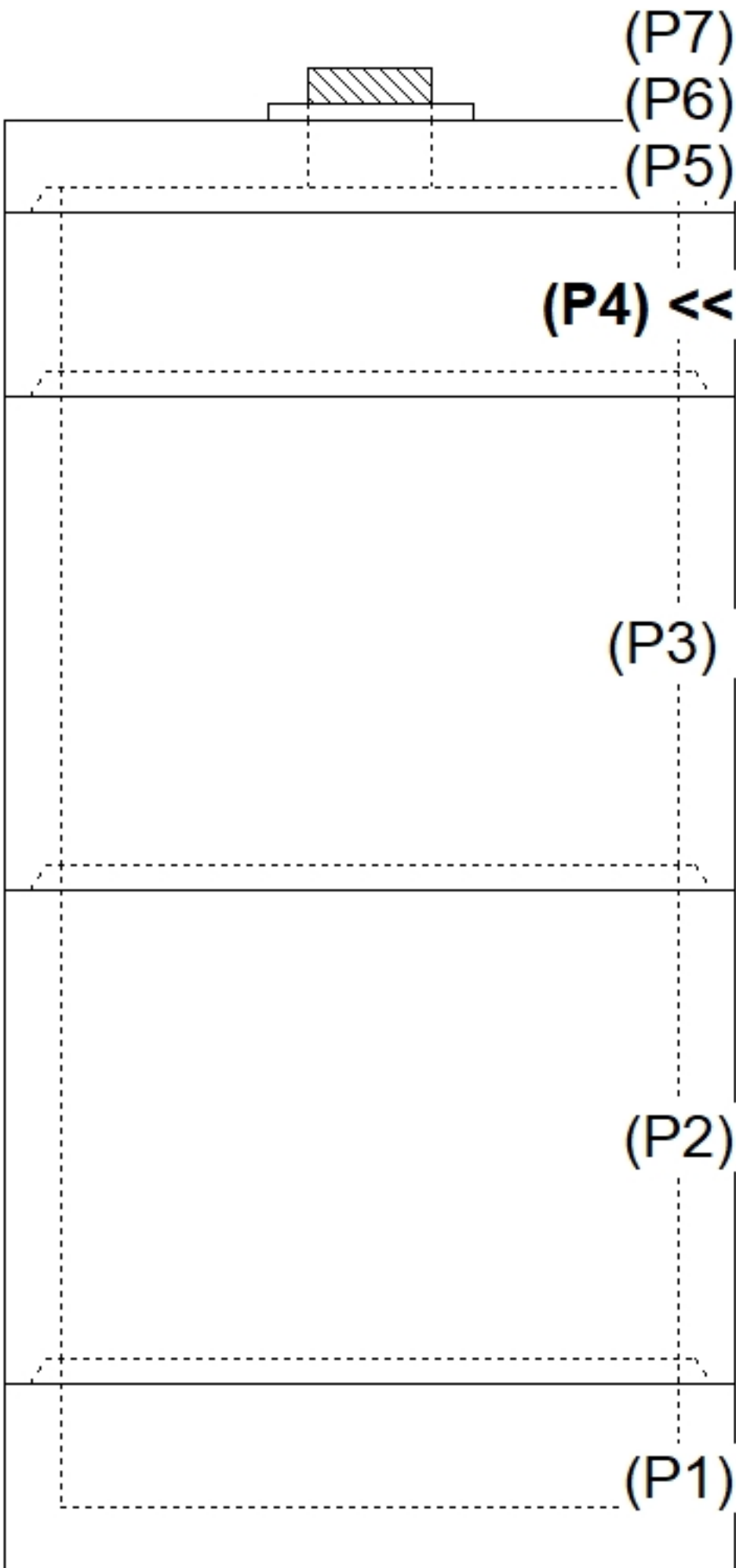
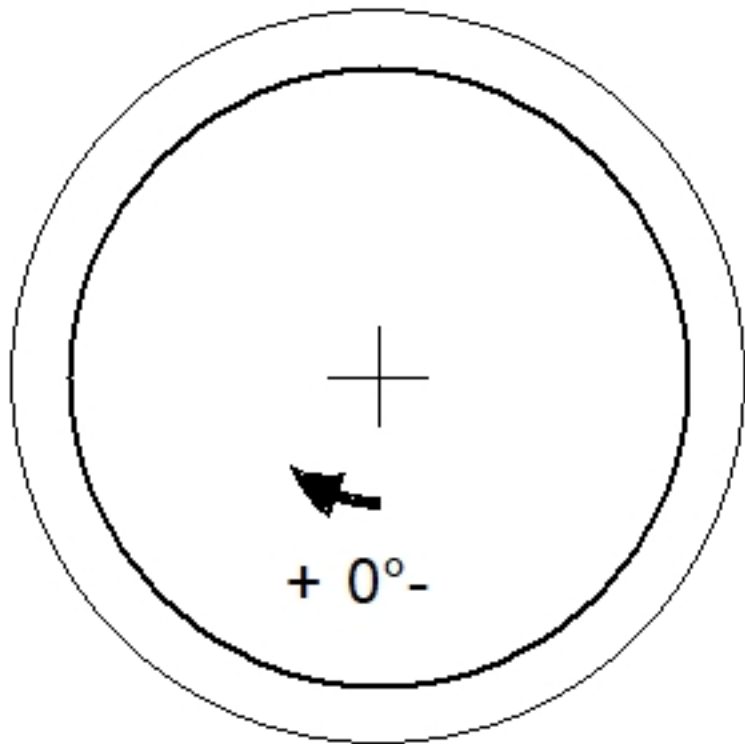
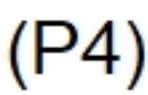
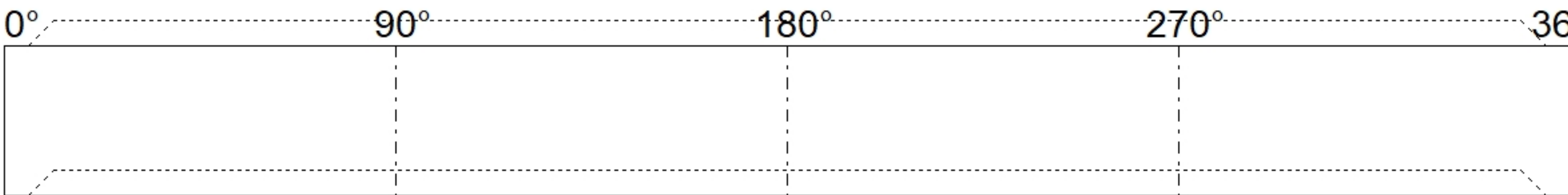
UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 11" Floor Height: 12"	Height (Int): 96" Height (Ext): 108"	Weight (Net): 37205 lb Volume (Net): 9.5cu.yd
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Job Name: 26-3051 ADS Aiken Ridge Ph.2 Job Location: Louisville, KY Contractor: ADS Advanced Drainage Systems, Inc.					Plant: Beaver Dam 7/27/2026 1:51:00 PM		Tech: S. Felletter PC: T. Ryan						
Structure ID: WQU1													
P4		MH120RS36		MH RISER T/G									
P7) 24" - CASTING HEIGHT - 7" P6) 24" - GRADE RING F/F - 3" P5) 120" - MH FLAT LID w/24in CON Hole F/G - 18" P4) 120" - MH RISER T/G - 36" P3) 120" - MH RISER T/G - 96" P2) 120" - MH RISER T/G - 96" P1) 120" - MH BASE T/n - 24" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) ASSEMBLY REQUIRED - BRACKETS ONLY 1) CASTING - HOE MC-420 F/C Storm LOU-MSD 4) 120" - Conseal CS-102 1.00" 2) 24" - Conseal CS-102 1.00" 2) Hole - 24						0 lb 202 lb 16678 lb 13675 lb 35438 lb 36468 lb 25064 lb 0 lb 0 lb 0 lb 340 lb 0 lb 0 lb 0 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-420 F/C LOU-MSD "STORM"). 4. LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE. 5. ASSEMBLY REQUIRED - BRACKETS ONLY. . REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W. - RISER/WALLS (As .36) - FLOOR (As .47) #5 BARS AT 8" C.C.E.W.					
Rim: 642.5' Rim to Invert: 9.85' Slack: 0.2" Sump: 162" Step Position:						Structure Total: 127865 lb							
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: 11" Floor Height: 0"		Height (Int): 36" Height (Ext): 36"		Weight (Net): 13675 lb Volume (Net): 3.49cu.yd			

Job Name: 26-2146 - Fairview Apartments
Job Location: Russell Springs, KY 42642
Contractor: Dirt Design Construction LLC

Plant: 100

8/3/2026 11:47:17 AM

Tech: J. Horsley

PC: M. Sullivan



Structure ID: 17 ST-DCB

P2 MH048LD07-18x36RECT

MH FLAT TOP w/18"x36" Hole

P3) 18" x 36" - CASTING HEIGHT - 5.5"
P2) 48" - MH FLAT TOP w/18"x36" Hole - 7"
P1) 48" - MH BASE - 30"
1) 48" - Con Seal CS-102 1.00"
1) Hole - 24
1) Hole - 20
1) Hole - 16

Structure Total:

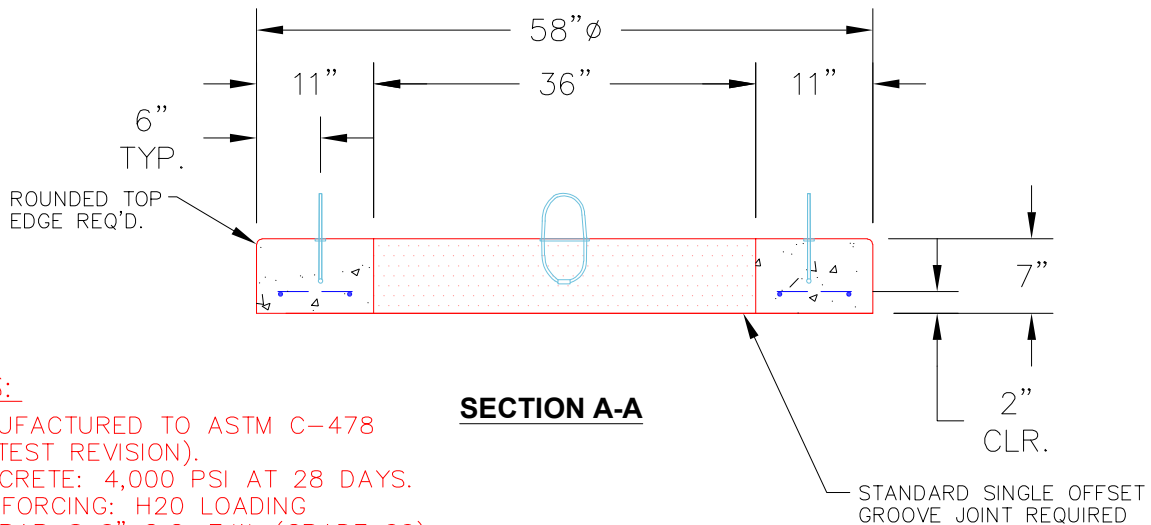
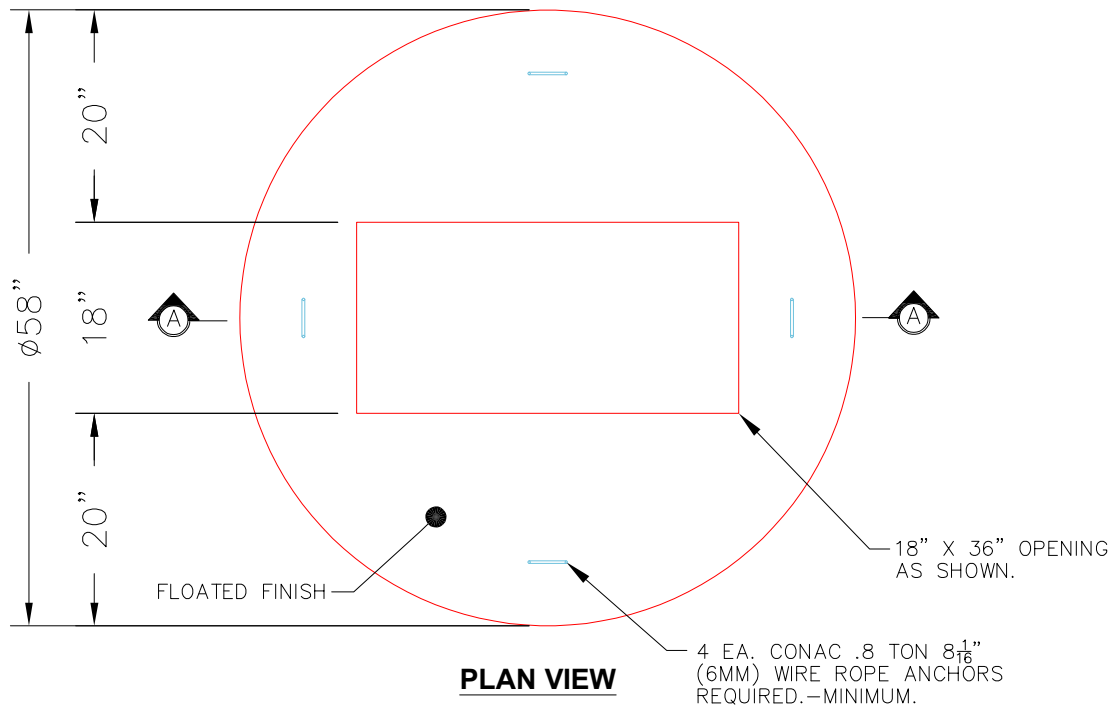
0 lb
1171 lb
3008 lb
0 lb
0 lb
0 lb
0 lb
0 lb
4179 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY OTHERS (HOE 580 F/G)

REINFORCING PER ASTM A615 (GRADE 60).

- TOP SLAB = H20 LOADING.
- RISER (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: H20 LOADING #5 BAR @ 6" O.C. E.W. (GRADE 60).

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 5"

Height (Ext): 7"

Weight (Net): 1171 lb
Volume (Net): 0.3cu.yd

Job Name: 26-2146 - Fairview Apartments
Job Location: Russell Springs, KY 42642
Contractor: Dirt Design Construction LLC

Plant: 100

8/3/2026 11:47:16 AM

Tech: J. Horsley

PC: M. Sullivan



Structure ID: 11 ST-DCB

P2 MH048LD07-18x36RECT

MH FLAT TOP w/18"x36" Hole

P3) 18" x 36" - CASTING HEIGHT - 5.5"
P2) 48" - MH FLAT TOP w/18"x36" Hole - 7"
P1) 48" - MH BASE Custom Ht - 21"
1) 48" - Con Seal CS-102 1.00"
2) Hole - 16

Structure Total:

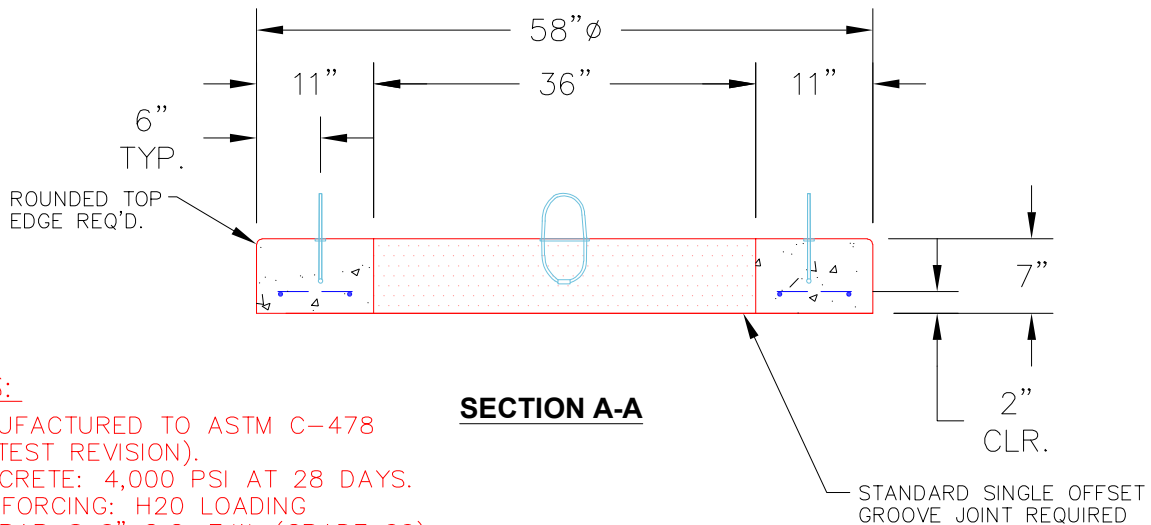
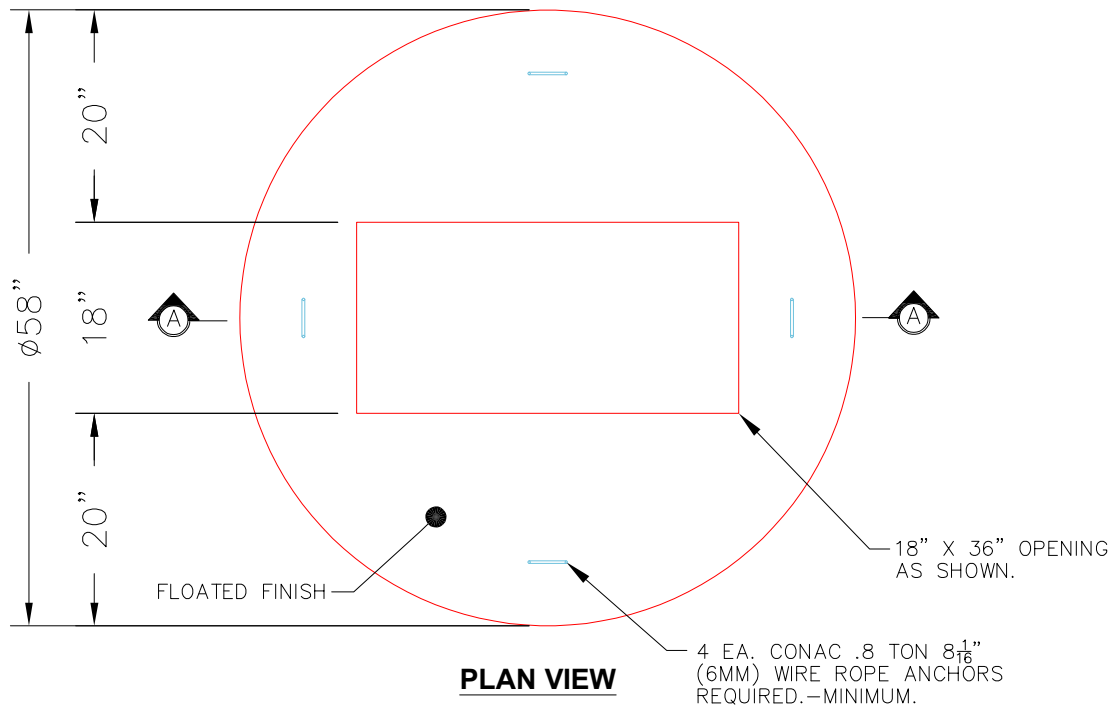
0 lb
1171 lb
2615 lb
0 lb
0 lb
3787 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY OTHERS (HOE 580 F/G)

REINFORCING PER ASTM A615 (GRADE 60).

- TOP SLAB = H20 LOADING.
- RISER (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: H20 LOADING #5 BAR @ 6" O.C. E.W. (GRADE 60).

Coating (Int):
Coating (Ext):

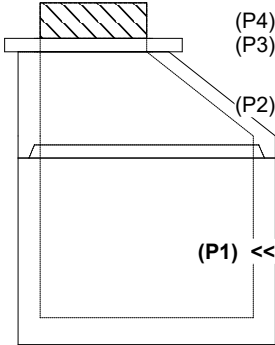
Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 5"

Height (Ext): 7"

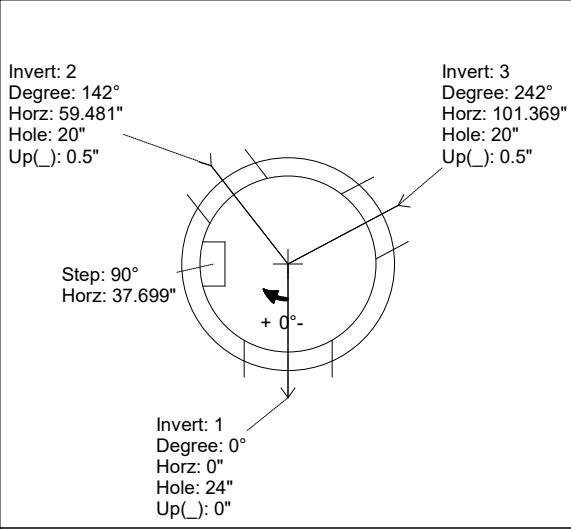
Weight (Net): 1171 lb
Volume (Net): 0.3cu.yd

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320) Job Location: Independence, KY Contractor: Eaton Asphalt					Plant: 100 7/1/2026 12:29:44 PM		Tech: Jared - A PC: J. Jarvis				
Structure ID: 459											
P1 MH048BA36		MH BASE									
P4) 24" - CASTING HEIGHT - 8" P3) 24" - GRADE RING - 3" P2) 48" - ECC CONE w/ 24" HOLE - 24" P1) 48" - MH BASE - 36" 1) CASTING - HOE KY-510 F/C (KY TY.2) 1) 48" - Conseal CS-102 1.00" 1) Hole - 24 2) Hole - 20 5) MH Step ML-10-TDS-NCR - 10"					0 lb 202 lb 1550 lb 3377 lb 510 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 5640 lb		Structure Notes: . **KYTC STATE PROJECT** 1. HOE KY-510 F/C (KY TY2) PROVIDED BY ICAST. 2. PER KYTC MH A / ASTM C478 SPEC'S. 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.				
Rim: 892.12' Rim to Invert: 5.68' Slack: 0.16" Sump: 3" Step Position: 0°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	886.44'	0°	0"	18" ADS N-12	22"	Hole 24	24"	25.133"	0"	0"	
Invert 2	886.44'	142°	71.873"	15" ADS N-12	18"	Hole 20	20"	20.629"	0.5"	0"	
Invert 3	886.44'	242°	122.487"	15" ADS N-12	18"	Hole 20	20"	20.629"	0.5"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



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

RIGHT-SIDE UP VIEW (int. dimensions)



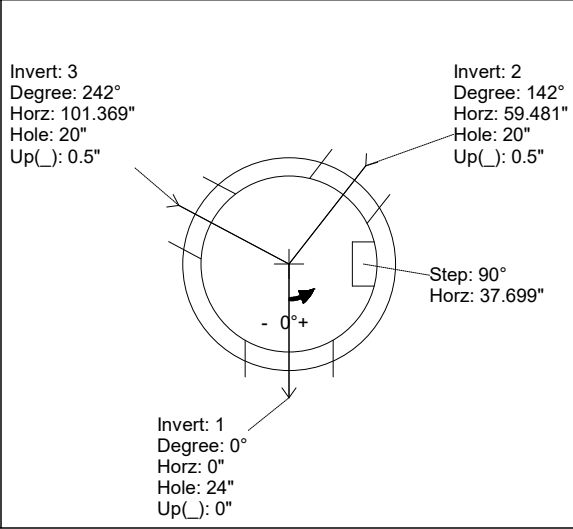
Invert: 2
Degree: 142°
Horz: 59.481"
Hole: 20"
Up(): 0.5"

Invert: 3
Degree: 242°
Horz: 101.369"
Hole: 20"
Up(): 0.5"

Step: 90°
Horz: 37.699"

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

UPSIDE-DOWN VIEW (int. dimensions)



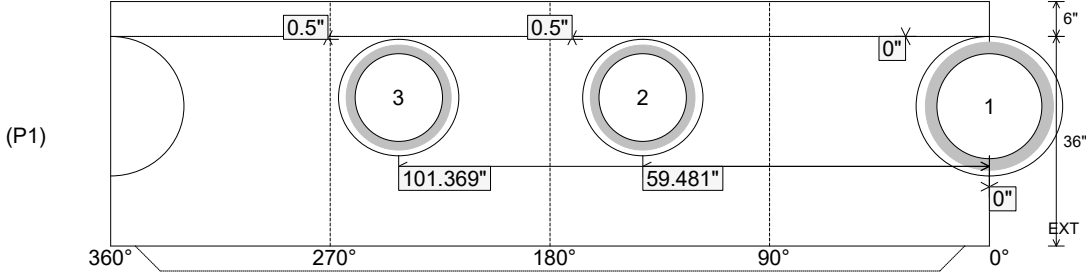
Invert: 3
Degree: 242°
Horz: 101.369"
Hole: 20"
Up(): 0.5"

Invert: 2
Degree: 142°
Horz: 59.481"
Hole: 20"
Up(): 0.5"

Step: 90°
Horz: 37.699"

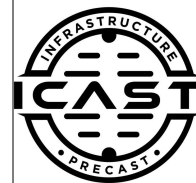
Invert: 1
Degree: 0°
Horz: 0"
Hole: 24"
Up(): 0"

INSIDE WALL DIMENSIONS



(P1)

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 36" Height (Ext): 42"	Weight (Net): 3377 lb Volume (Net): 0.86cu.yd
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Weight (Net): 3604 lb
Volume (Net): 0.92cu.yd

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320) Job Location: Independence, KY Contractor: Eaton Asphalt					Plant: 100		Tech: Jared - A			
					7/1/2026 12:30:45 PM		PC: J. Jarvis			
Structure ID: 193										
P1 MH048BAVF			MH BASE Custom Ht							
P3) 24" - CASTING HEIGHT - 7" P2) 48" - CON CONE w/24" HOLE - 36" P1) 48" - MH BASE Custom Ht - 25" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) CASTING - HOE MC-375 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 16L NYLO 4) MH Step ML-10-TDS-NCR - 10"					0 lb 2252 lb 2905 lb 1440 lb 271 lb 0 lb 16 lb 0 lb ----- Structure Total: 6885 lb		Structure Notes: 1. HOE MC-375-WT F/C SANITARY PROVIDED 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.			
Rim: 782.2' Rim to Invert: 5.5' Slack: 0" Sump: 2" Step Position: 0°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	776.7'	0°	0"	12" PVC SDR35	12.5"	PSX 16L NYLO	16"	16.312"	0"	0"
Invert 2	776.8'	150°	75.922"	12" PVC SDR35	12.5"	PSX 16L NYLO	16"	16.312"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 25" Height (Ext): 31"	Weight (Net): 2905 lb Volume (Net): 0.74cu.yd
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Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320) Job Location: Independence, KY Contractor: Eaton Asphalt					Plant: 100		Tech: Jared - A			
					7/1/2026 12:30:42 PM		PC: J. Jarvis			
Structure ID: 126										
P1 MH048BAVF			MH BASE Custom Ht							
P3) 24" - CASTING HEIGHT - 7" P2) 48" - CON CONE w/24" HOLE - 36" P1) 48" - MH BASE Custom Ht - 58" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) CASTING - HOE MC-375 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 16L NYLO 7) MH Step ML-10-TDS-NCR - 10"					0 lb 2252 lb 5211 lb 1440 lb 271 lb 0 lb 16 lb 0 lb ----- Structure Total: 9190 lb		Structure Notes: 1. HOE MC-375-WT F/C SANITARY PROVIDED BY ICAST. 2. PER ASTM C478 SPECIFICATIONS. 3. CONCRETE = 4,000 PSI AT 28 DAYS. 4. 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: 784.38' Rim to Invert: 8.27' Slack: 0.24" Sump: 2" Step Position: 0°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	776.11'	0°	0"	12" PVC SDR35	12.5"	PSX 16L NYLO	16"	16.312"	0"	0"
Invert 2	776.21'	200°	101.229"	12" PVC SDR35	12.5"	PSX 16L NYLO	16"	16.312"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

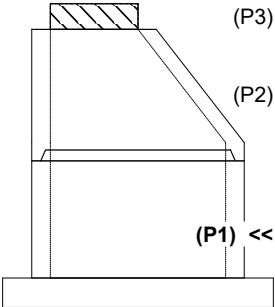
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

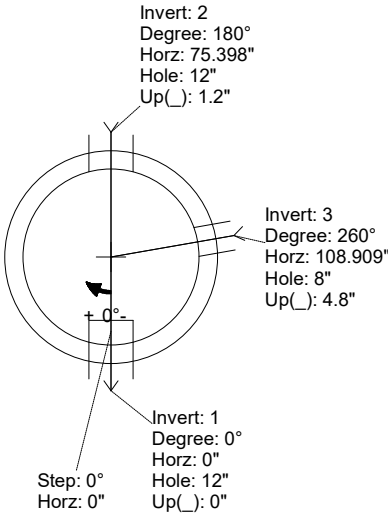
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 58" Height (Ext): 64"	Weight (Net): 5211 lb Volume (Net): 1.33cu.yd
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Job Name: 25-3241P2 - Buck Hills Subdivision Job Location: Lawrenceburg, KY 40342 Contractor: Edmonson Plumbing & Heating Supply					Plant: 100 7/24/2026 12:44:00 PM		Tech: Jared - A PC: C. Goff				
Structure ID: MH C3											
P1 MH048BAEVF		MH BASE w/FLANGE (08F/08EF)									
P3) 24" - CASTING HEIGHT - 7" P2) 48" - ECC CONE w/ 24" HOLE - 36" P1) 48" - MH BASE w/FLANGE (08F/08EF) - 32" 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) CASTING - HOE MC-420 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 1) PSX - 8QRS-S NYLO					0 lb 3000 lb 5006 lb 0 lb 0 lb 1440 lb 340 lb 0 lb 0 lb 16 lb 6 lb Structure Total: 9808 lb		Structure Notes: 1. HOE MC-420 F/C SANITARY PROVIDED 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.				
Rim: 831.15' Rim to Invert: 6.15' Slack: 0.8" Sump: 2" Step Position: 0											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	825'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"	
Invert 2	825.1'	180°	91.106"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"	
Invert 3	825.4'	260°	131.598"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8.038"	4.8"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



(P3)
(P2)
(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)



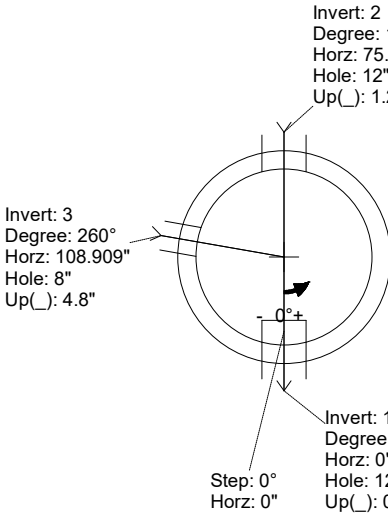
Invert: 2
Degree: 180°
Horz: 75.398"
Hole: 12"
Up(): 1.2"

Invert: 3
Degree: 260°
Horz: 108.909"
Hole: 8"
Up(): 4.8"

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

Step: 0°
Horz: 0"

UPSIDE-DOWN VIEW (int. dimensions)



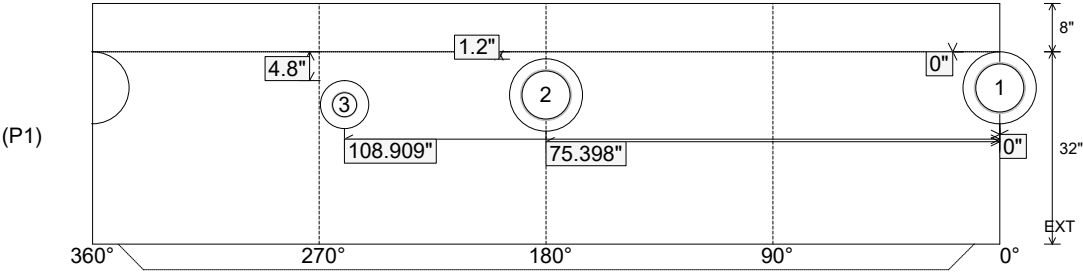
Invert: 2
Degree: 180°
Horz: 75.398"
Hole: 12"
Up(): 1.2"

Invert: 3
Degree: 260°
Horz: 108.909"
Hole: 8"
Up(): 4.8"

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

Step: 0°
Horz: 0"

INSIDE WALL DIMENSIONS



(P1)

Horizontal dimensions: 4.8", 1.2", 108.909", 75.398", 0"

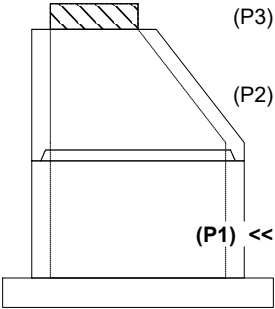
Vertical dimensions: 8", 32"

Angles: 360°, 270°, 180°, 90°, 0°

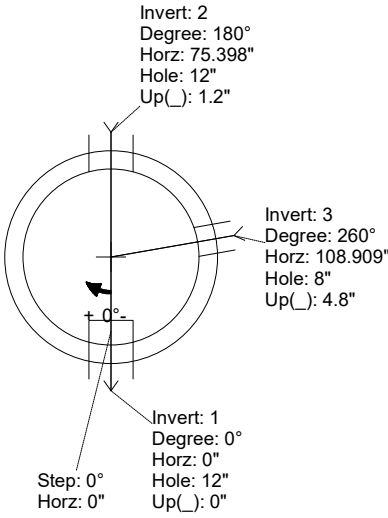
EXT

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 8"	Height (Int): 32" Height (Ext): 40"	Weight (Net): 5006 lb Volume (Net): 1.28cu.yd
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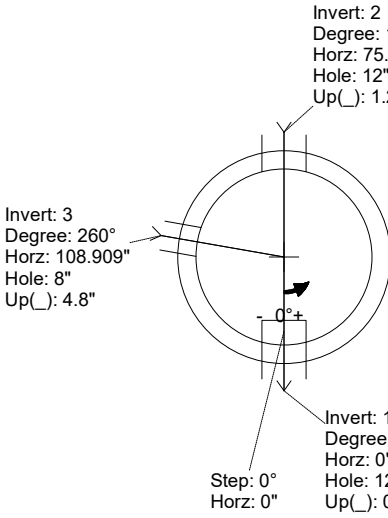
Job Name: 25-3241P2 - Buck Hills Subdivision Job Location: Lawrenceburg, KY 40342 Contractor: Edmonson Plumbing & Heating Supply				Plant: 100 7/24/2026 12:44:00 PM		Tech: Jared - A PC: C. Goff				
Structure ID: MH C3										
P1 MH048BAEVF		MH BASE w/FLANGE (08F/08EF)								
P3) 24" - CASTING HEIGHT - 7" P2) 48" - ECC CONE w/ 24" HOLE - 36" P1) 48" - MH BASE w/FLANGE (08F/08EF) - 32" 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) CASTING - HOE MC-420 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 1) PSX - 8QRS-S NYLO				0 lb 3000 lb 5006 lb 0 lb 0 lb 1440 lb 340 lb 0 lb 0 lb 16 lb 6 lb ----- Structure Total: 9808 lb		Structure Notes: 1. HOE MC-420 F/C SANITARY PROVIDED 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. INVERT CHANNEL DRAWING FULL HEIGHT INVERT				
Rim: 831.15' Rim to Invert: 6.15' Slack: 0.8" Sump: 2" Step Position: 0										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	825'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	825.1'	180°	91.106"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3	825.4'	260°	131.598"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8.038"	4.8"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



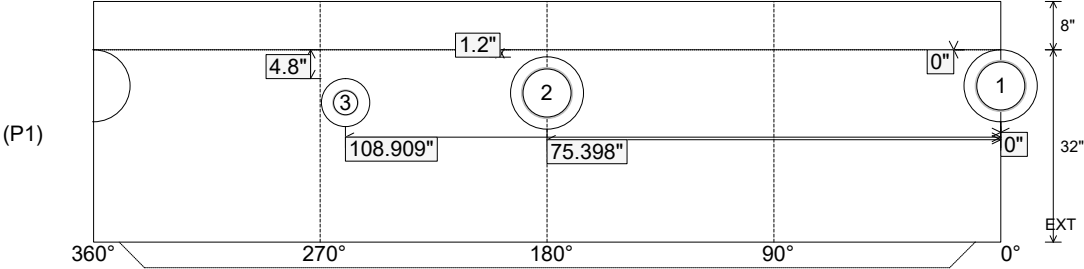
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 8"	Height (Int): 32" Height (Ext): 40"	Weight (Net): 5006 lb Volume (Net): 1.28cu.yd
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Job Name: 25-3241P2 - Buck Hills Subdivision Job Location: Lawrenceburg, KY 40342 Contractor: Edmonson Plumbing & Heating Supply					Plant: 100		Tech: Jared - A			
					7/24/2026 12:43:59 PM		PC: C. Goff			
Structure ID: MH C1										
P1 MH048BAEVF			MH BASE w/FLANGE (08F/08EF)							
P3) 24" - CASTING HEIGHT - 7" P2) 48" - ECC CONE w/ 24" HOLE - 36" P1) 48" - MH BASE w/FLANGE (08F/08EF) - 31" 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) CASTING - HOE MC-420 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO					0 lb 3000 lb 4957 lb 0 lb 0 lb 1440 lb 340 lb 0 lb 0 lb 16 lb ----- Structure Total: 9753 lb		Structure Notes: 1. HOE MC-420 F/C SANITARY PROVIDED 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.			
Rim: 807' Rim to Invert: 6' Slack: 0" Sump: 2" Step Position: 0										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	801'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	801.1'	240°	121.475"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

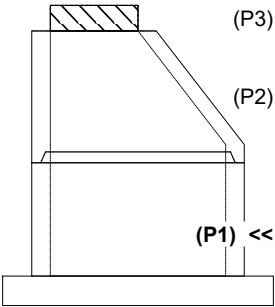
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

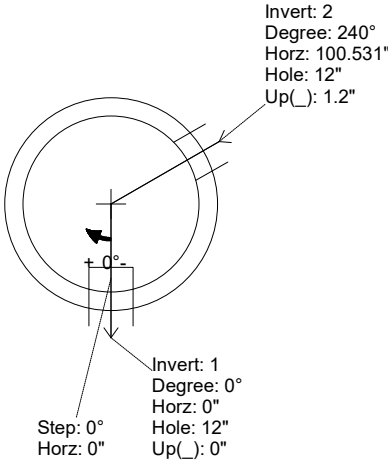
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 8"	Height (Int): 31" Height (Ext): 39"	Weight (Net): 4957 lb Volume (Net): 1.27cu.yd
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Job Name: 25-3241P2 - Buck Hills Subdivision Job Location: Lawrenceburg, KY 40342 Contractor: Edmonson Plumbing & Heating Supply					Plant: 100 7/24/2026 12:43:59 PM		Tech: Jared - A PC: C. Goff			
Structure ID: MH C1										
P1 MH048BAEVF		MH BASE w/FLANGE (08F/08EF)								
P3) 24" - CASTING HEIGHT - 7" P2) 48" - ECC CONE w/ 24" HOLE - 36" P1) 48" - MH BASE w/FLANGE (08F/08EF) - 31" 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) CASTING - HOE MC-420 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO					0 lb 3000 lb 4957 lb 0 lb 0 lb 1440 lb 340 lb 0 lb 0 lb 16 lb ----- Structure Total: 9753 lb		Structure Notes: 1. HOE MC-420 F/C SANITARY PROVIDED 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. INVERT CHANNEL DRAWING FULL HEIGHT INVERT			
Rim: 807' Rim to Invert: 6' Slack: 0" Sump: 2" Step Position: 0										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	801'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	801.1'	240°	121.475"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



(P3)
(P2)
(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

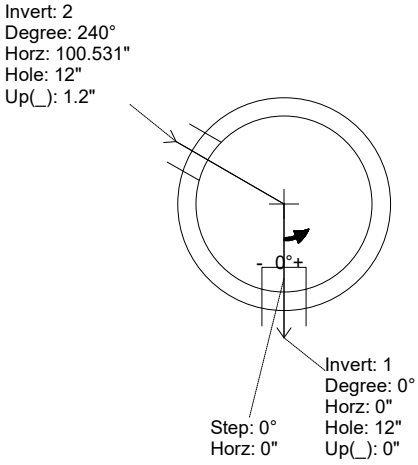


Invert: 2
Degree: 240°
Horz: 100.531"
Hole: 12"
Up(): 1.2"

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

Step: 0°
Horz: 0"

UPSIDE-DOWN VIEW (int. dimensions)

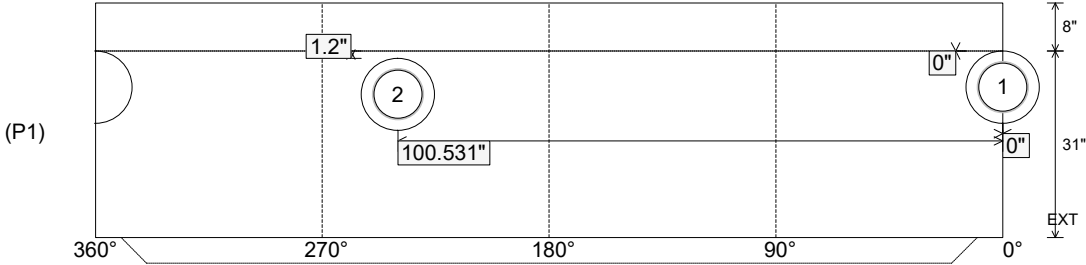


Invert: 2
Degree: 240°
Horz: 100.531"
Hole: 12"
Up(): 1.2"

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

Step: 0°
Horz: 0"

INSIDE WALL DIMENSIONS

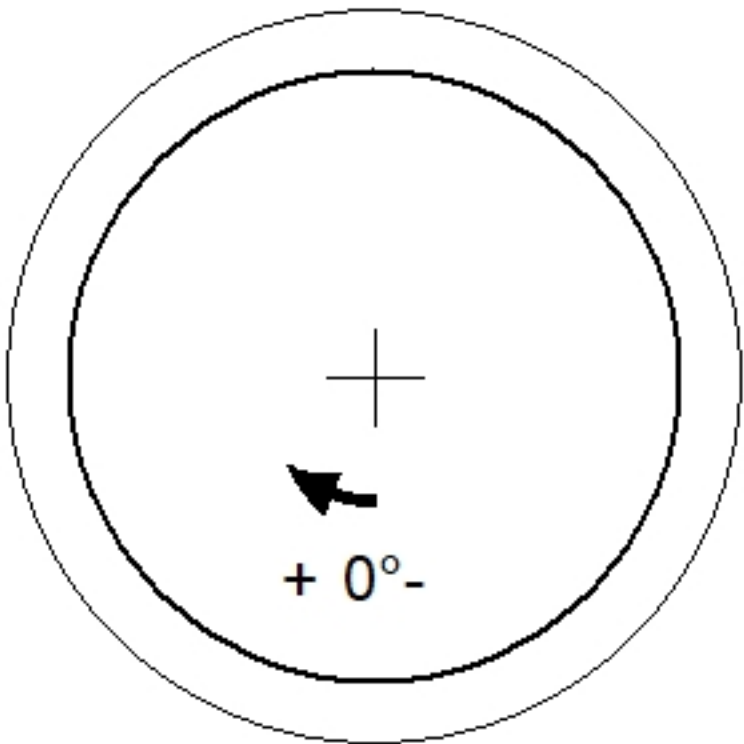
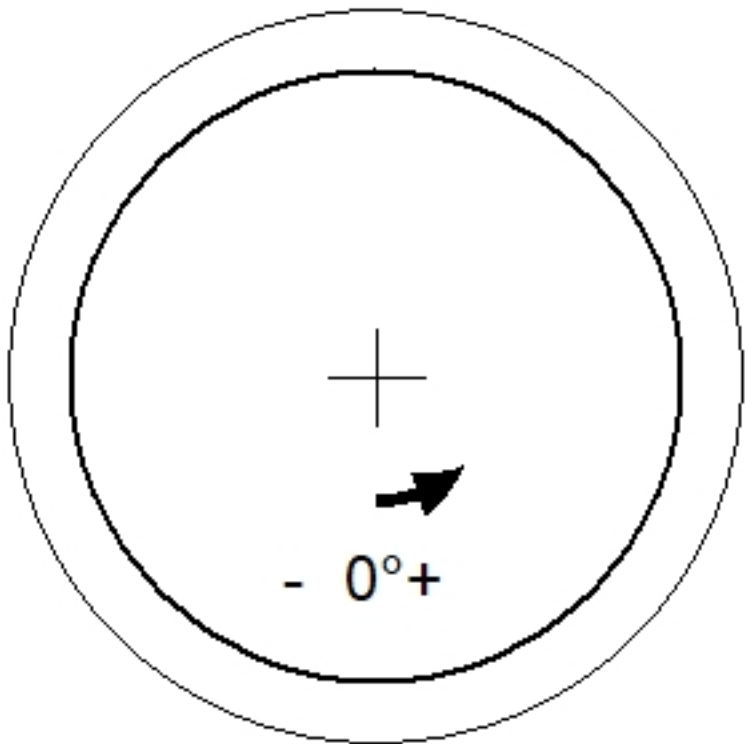
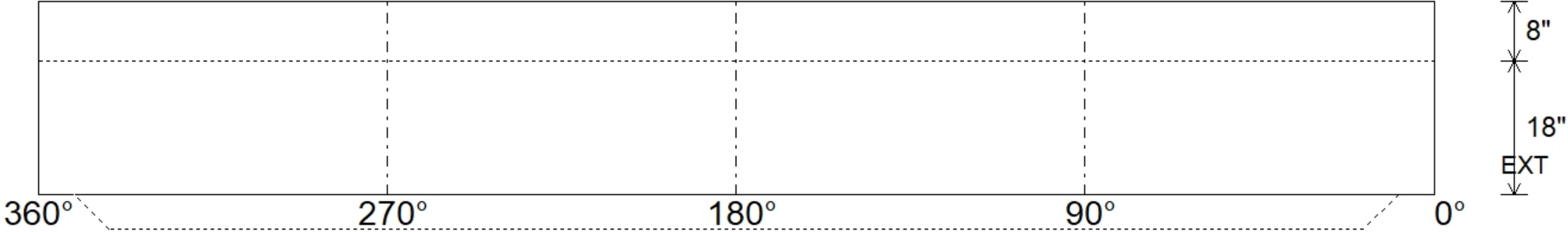


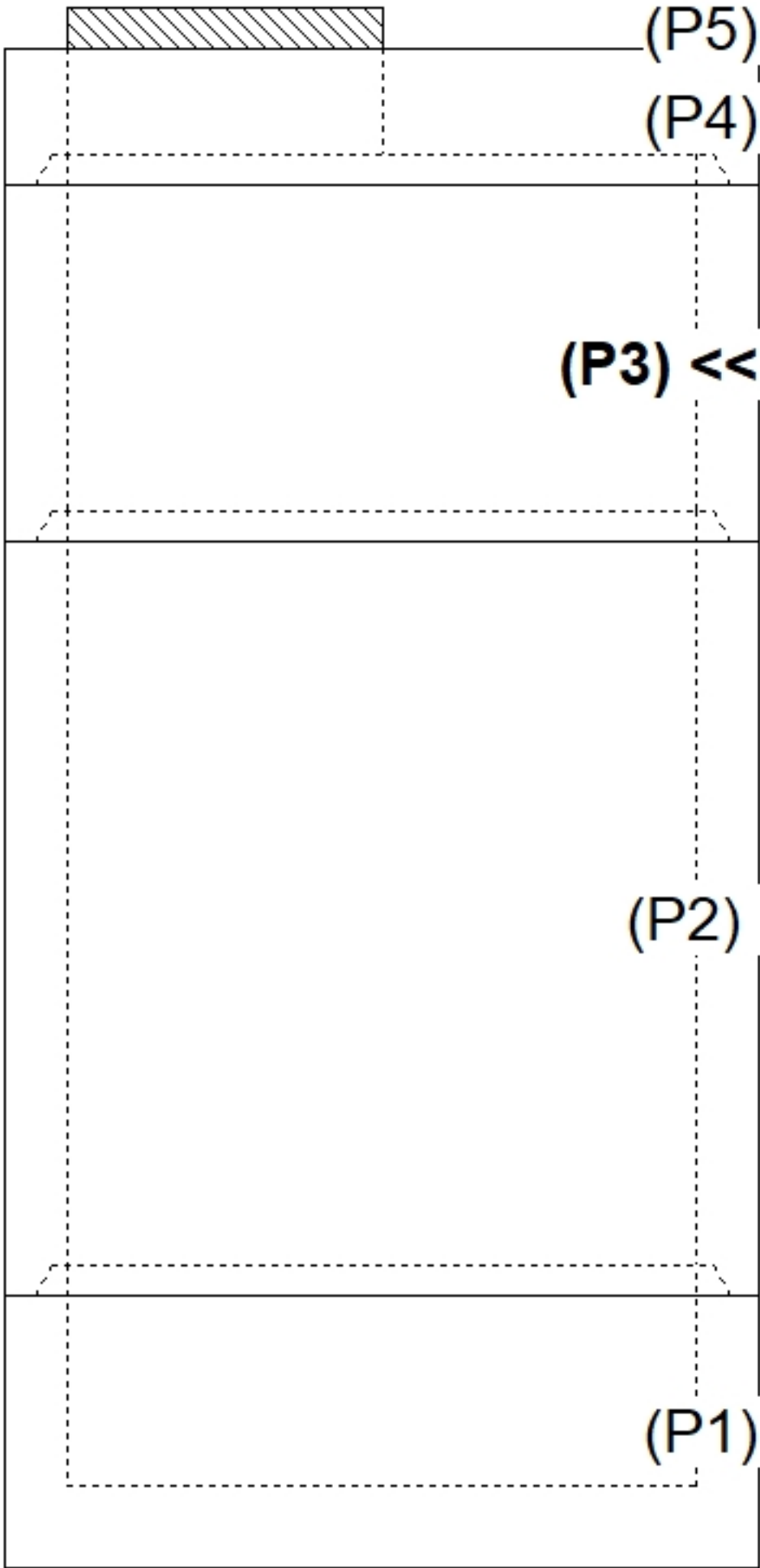
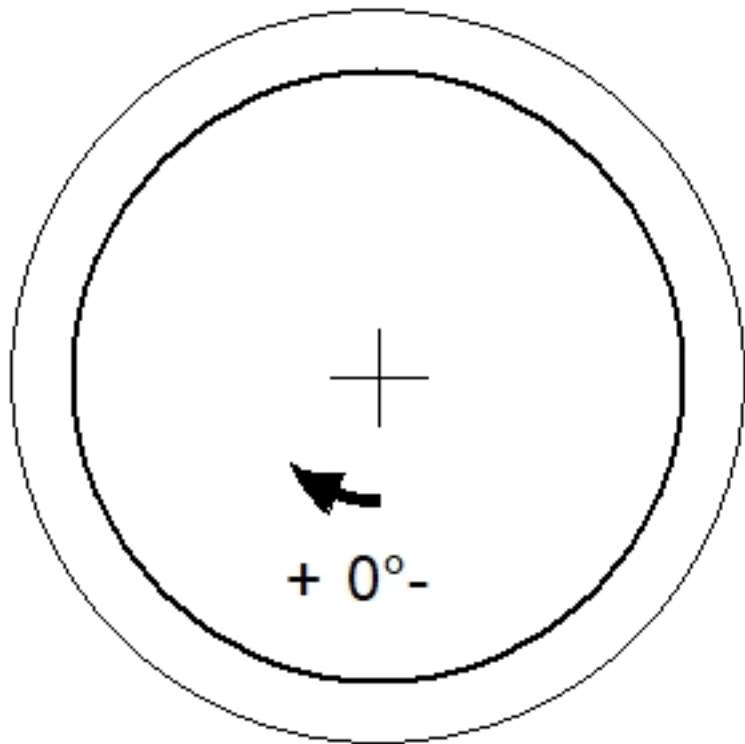
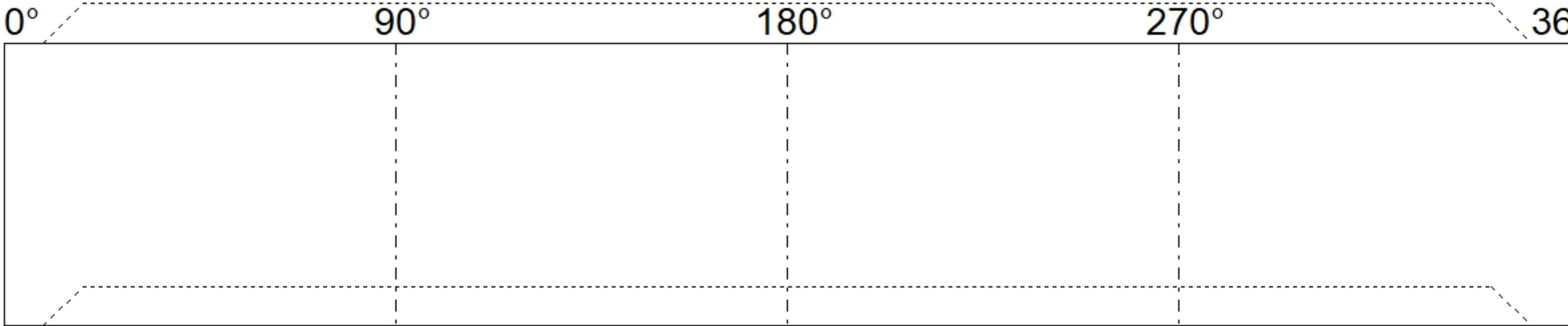
(P1)

1.2"
100.531"
0"
31"
EXT

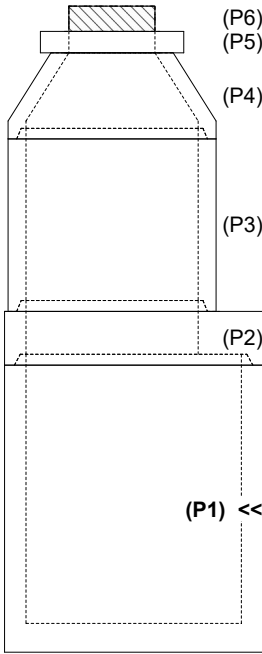
360° 270° 180° 90° 0°

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 8"	Height (Int): 31" Height (Ext): 39"	Weight (Net): 4957 lb Volume (Net): 1.27cu.yd
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Job Name: 26-3200 906957 Austin Tri-Hawk Auto Job Location: Austin, IN Contractor: Contech Engineering Solutions					Plant: Beaver Dam 8/7/2026 1:03:07 PM		Tech: S. Felletter PC: C. Goff				
Structure ID: 10-CS-5											
P1			MH060BA18			MH BASE T/n					
P5) 30" - CASTING HEIGHT - 4" P4) 60" - MH FLAT TOP SPEC. (30" ECC HOLE) F/G - 13" P3) 60" - MH RISER Custom Ht T/G - 34" P2) 60" - MH RISER SPECIAL T/G - 72" P1) 60" - MH BASE T/n - 18" 1) ASSEMBLY REQUIRED 1) CVSTENCILING 3) 60" - Conseal CS-102 1.00" 2) Hole - 20						0 lb 2589 lb 3549 lb 7195 lb 4612 lb 0 lb 0 lb 0 lb 0 lb ----- 17945 lb		Structure Notes: . 4" CASTING BY OTHERS . LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE . ICATS TO INSTALL THE INTERNALS . CONTECH'S LOGO AS WELL AS THE INLET AND OUTLET MUST BE STENCILED ONTO THE STRUCTURE			
Rim: 560.1' Rim to Invert: 7.43' Slack: 6.276" Sump: 58.116" Step Position: 90											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)  UPSIDE-DOWN VIEW (int. dimenions) 											
INSIDE WALL DIMENSIONS 											
Coating (Int): Coating (Ext):				Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 6" Floor Height: 8"		Height (Int): 18" Height (Ext): 26"		Weight (Net): 4612 lb Volume (Net): 1.18cu.yd	

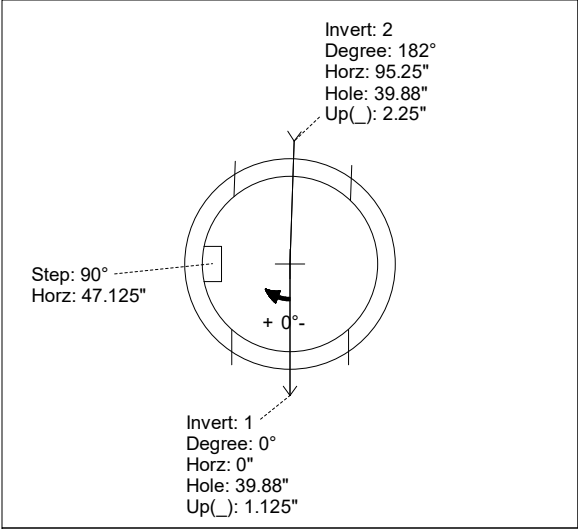
Job Name: 26-3200 906957 Austin Tri-Hawk Auto Job Location: Austin, IN Contractor: Contech Engineering Solutions				Plant: Beaver Dam 8/7/2026 1:03:44 PM		Tech: S. Felletter PC: C. Goff				
Structure ID: 10-CS-5										
P3			MH060RSVF			MH RISER Custom Ht T/G				
P5) 30" - CASTING HEIGHT - 4" P4) 60" - MH FLAT TOP SPEC. (30" ECC HOLE) F/G - 13" P3) 60" - MH RISER Custom Ht T/G - 34" P2) 60" - MH RISER SPECIAL T/G - 72" P1) 60" - MH BASE T/n - 18" 1) ASSEMBLY REQUIRED 1) CVSTENCILING 3) 60" - Conseal CS-102 1.00" 2) Hole - 20						0 lb 2589 lb 3549 lb 7195 lb 4612 lb 0 lb 0 lb 0 lb 0 lb ----- 17945 lb		Structure Notes: 4" CASTING BY OTHERS LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE ICATS TO INSTALL THE INTERNALS CONTECH'S LOGO AS WELL AS THE INLET AND OUTLET MUST BE STENCILED ONTO THE STRUCTURE		
Rim: 560.1' Rim to Invert: 7.43' Slack: 6.276" Sump: 58.116" Step Position: 90										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (┘)	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										
RIGHT-SIDE UP VIEW (int. dimensions)										
										
INSIDE WALL DIMENSIONS										
		EXT 34"								
Coating (Int): Coating (Ext):			Seam Up: Tongue Seam Dn: Groove		Wall Thickness: 6" Floor Height: 0"		Height (Int): 34" Height (Ext): 34"		Weight (Net): 3549 lb Volume (Net): 0.91cu.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 1:21:19 PM		Tech: J. Horsley - A PC: Celina Goff				
Structure ID: 2301583										
P1 MH060BA72		MH BASE T/n								
P6) 24" - CASTING HEIGHT - 7" P5) 24" - GRADE RING F/F - 6" P4) 48" - CON CONE w/24" HOLE F/G - 24" P3) 48" - MH RISER T/G - 48" 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) 2) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 12) MH Step ML-10-TDS-NCR - 10"					0 lb 405 lb 2252 lb 3353 lb 2204 lb 8895 lb 2692 lb 0 lb 0 lb 2 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - DOUBLE MAT - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. STEPS AT 90 DEGREES 6. 7" CASTING SUPPLIED BY OTHERS			
Rim: 747.54' Rim to Invert: 14.21' Slack: 1.52' Sump: 3' Step Position: 90°					Structure Total: 19803 lb					
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	733.33'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	733.43'	182°	114.375"	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										



(P6)
(P5)
(P4)
(P3)
(P2)
(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

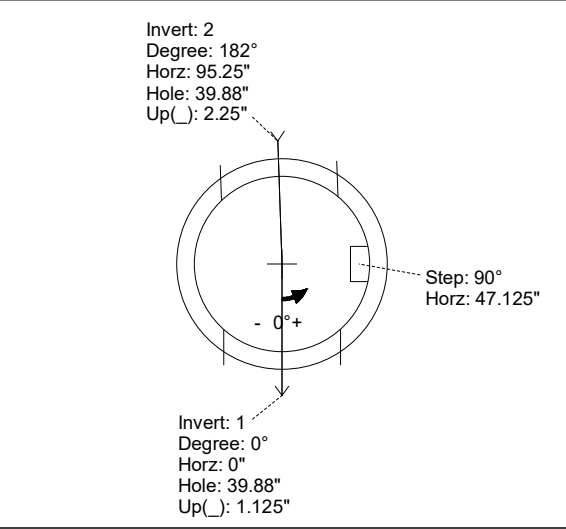


Invert: 2
Degree: 182°
Horz: 95.25"
Hole: 39.88"
Up(): 2.25"

Step: 90°
Horz: 47.125"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 39.88"
Up(): 1.125"

UPSIDE-DOWN VIEW (int. dimensions)

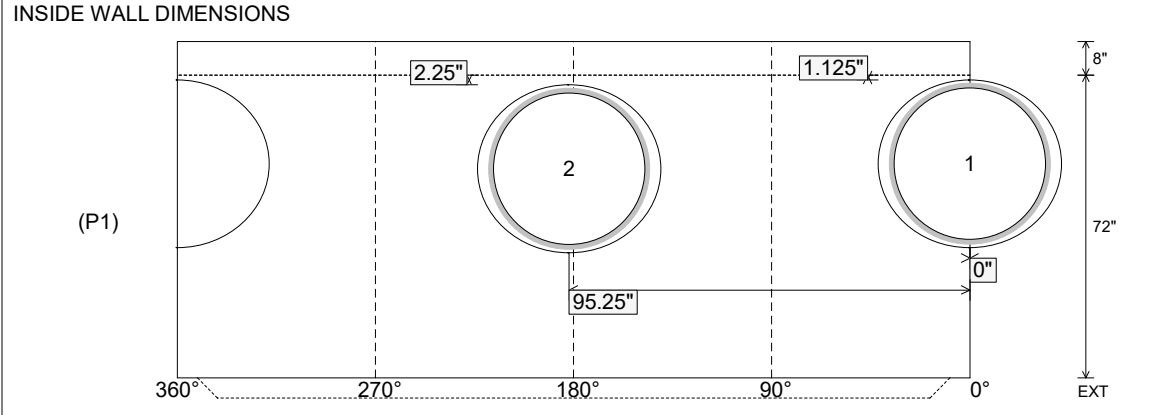


Invert: 2
Degree: 182°
Horz: 95.25"
Hole: 39.88"
Up(): 2.25"

Step: 90°
Horz: 47.125"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 39.88"
Up(): 1.125"

INSIDE WALL DIMENSIONS



2.25" 1.125" 8" 72" 0" 95.25" 360° 270° 180° 90° 0° EXT

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
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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 1:21:19 PM

Tech: J. Horsley - A

PC: Celina Goff



Structure ID: 2301583

P1 MH060BA72

MH BASE T/n

P6) 24" - CASTING HEIGHT - 7"

P5) 24" - GRADE RING F/F - 6"

P4) 48" - CON CONE w/24" HOLE F/G - 24"

P3) 48" - MH RISER T/G - 48"

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)

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

2) A-Lok - 1235

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

0 lb

405 lb

2252 lb

3353 lb

2204 lb

8895 lb

2692 lb

0 lb

0 lb

2 lb

0 lb

Structure Total: 19803 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

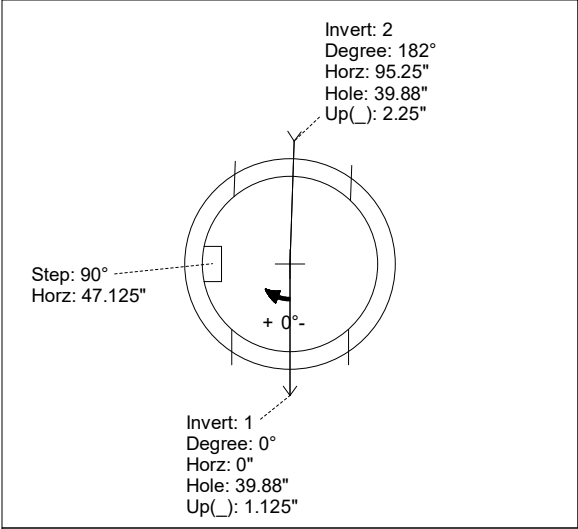
5. STEPS AT 90 DEGREES

6. 7" CASTING SUPPLIED BY OTHERS

Rim: 747.54' Rim to Invert: 14.21' Slack: 1.52" Sump: 3" Step Position: 90°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	733.33'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	733.43'	182°	114.375"	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										

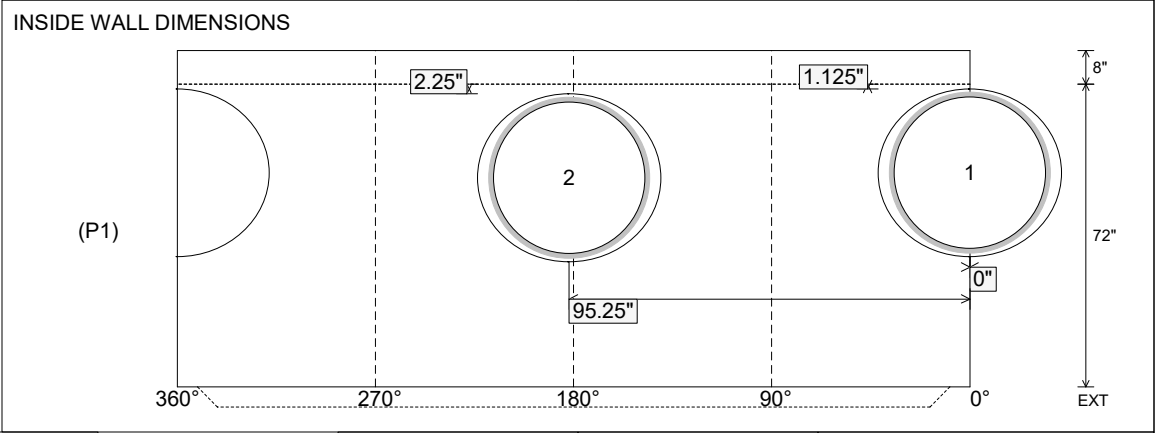
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

INVERT CHANNEL DRAWING

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

3/27/2026 11:39:42 AM

Tech: J. Horsley - A

PC: Celina Goff



Structure ID: 2301583

P2 MH060TS15-48ECC

MH Transition Slab 48" Hole T/G

P6) 24" - CASTING HEIGHT - 7"
P5) 24" - GRADE RING F/F - 6"
P4) 48" - CON CONE w/24" HOLE F/G - 24"
P3) 48" - MH RISER T/G - 48"
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)
2) 48" - Conseal CS-102 1.00" (Double)
2) A-Lok - 1235
12) MH Step ML-10-TDS-NCR - 10"

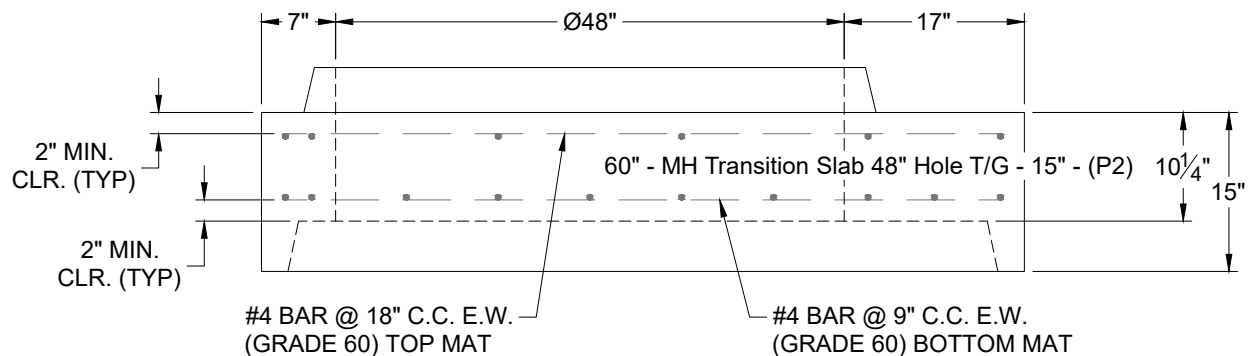
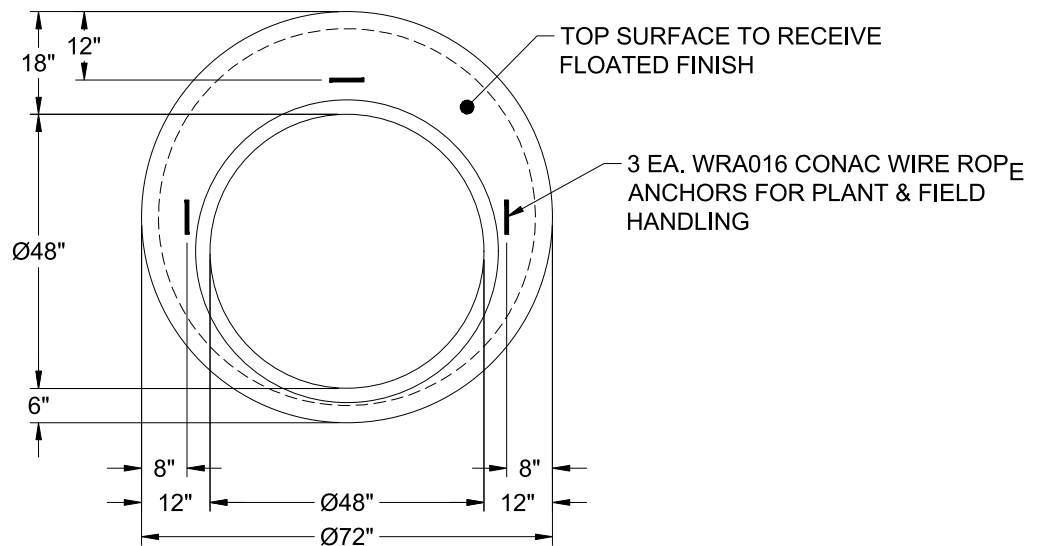
0 lb
405 lb
2252 lb
3353 lb
2204 lb
8895 lb
2692 lb
0 lb
0 lb
2 lb
0 lb

19803 lb

Structure Total:

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT - 2" MIN. REBAR CLEARANCE (TYP):
 - TOP MAT: #4 BAR @ 18" C.C. E.W. (GRADE 60)
 - BOTTOM MAT: #4 BAR @ 9" C.C. E.W. (GRADE 60)
4. 7" CASTING SUPPLIED BY OTHERS
5. LIFTERS: 3 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
6. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 15"

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

Job Name: 24-4271C Lloyd 4U Tekoppel Ave Water Main Relocation
Job Location: Evansville, IN
Contractor: Blankenberger Brothers, Inc.

Plant: Beaver Dam
8/7/2026 11:14:01 AM

Tech: J. Coppage
PC: A. Chambers



Structure ID: STR 30

P2 MH072RS84 MH RISER

- P5) 24" - CASTING HEIGHT - 7"
- P4) 24" - GRADE RING - 3"
- P3) 72" - MH FLAT LID w/24in ECC Hole - 15"
- P2) 72" - MH RISER - 84"
- P1) 72" - MH BASE - 84"
- 2) 72" - Conseal CS-102 1.00"
- 2) 24" - Conseal CS-102 1.00"
- 2) Hole - 44

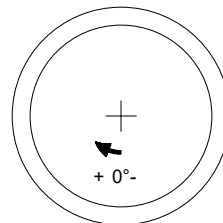
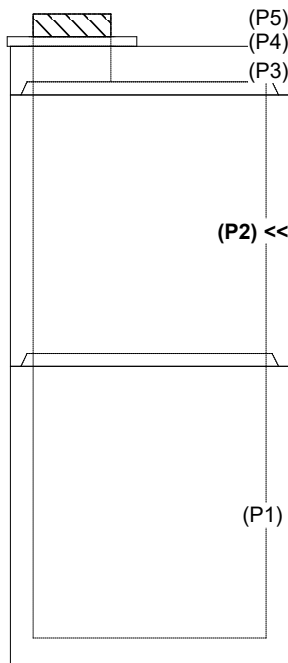
- Structure Notes:
- 1. PER ASTM C478 SPECIFICATIONS.
 - 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 - 3. REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .18)
 - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.
 - 4. CASTING BY OTHERS.
 - 5. THIS IS FOR THE BASE SECTION (P1) AND RISER (P2), AND GRADE RING (P4) ONLY. USE THE FLAT TOP (P3) THAT WAS PREVIOUSLY PROVIDED FOR STRUCTURE 32.

Structure Total: 31793 lb

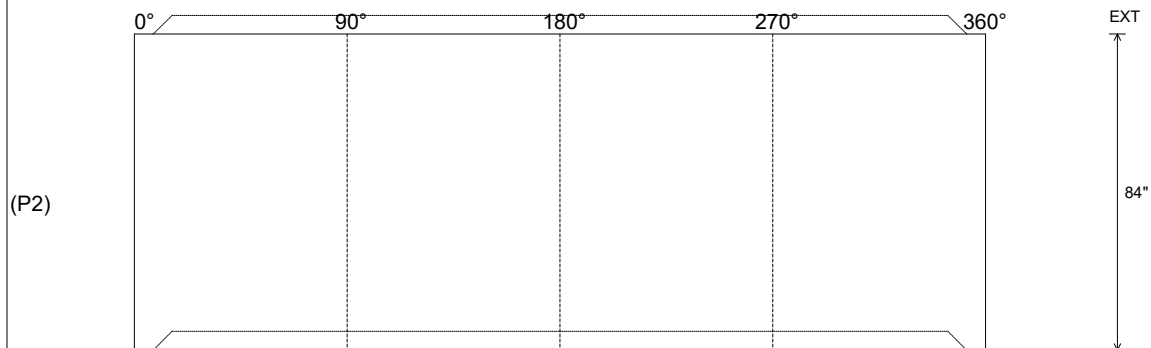
Rim: 377.9' Rim to Invert: 16.11' Slack: 3.17" Sump: 2.85" Step Position:

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

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Seam Up: Tongue Wall Thickness: 7" Height (Int): 84" Weight (Net): 12246 lb
Coating (Ext): Seam Dn: Groove Floor Height: 0" Height (Ext): 84" Volume (Net): 3.13cu.yd

Job Name: 24-4271C Lloyd 4U Tekoppel Ave Water Main Relocation
Job Location: Evansville, IN
Contractor: Blankenberger Brothers, Inc.

Plant: Beaver Dam

8/7/2026 11:12:50 AM

Tech: J. Coppage

PC: A. Chambers



Structure ID: STR 34

P1 MH072BAVF

MH BASE Custom Ht

P3) 24" - CASTING HEIGHT - 7"
P2) 72" - MH FLAT LID w/24in ECC Hole - 15"
P1) 72" - MH BASE Custom Ht - 83"
1) Hole - 44
1) Hole - 38
1) Hole - 24

Structure Total:

0 lb
5098 lb
14084 lb
0 lb
0 lb
0 lb

19182 lb

Structure Notes:

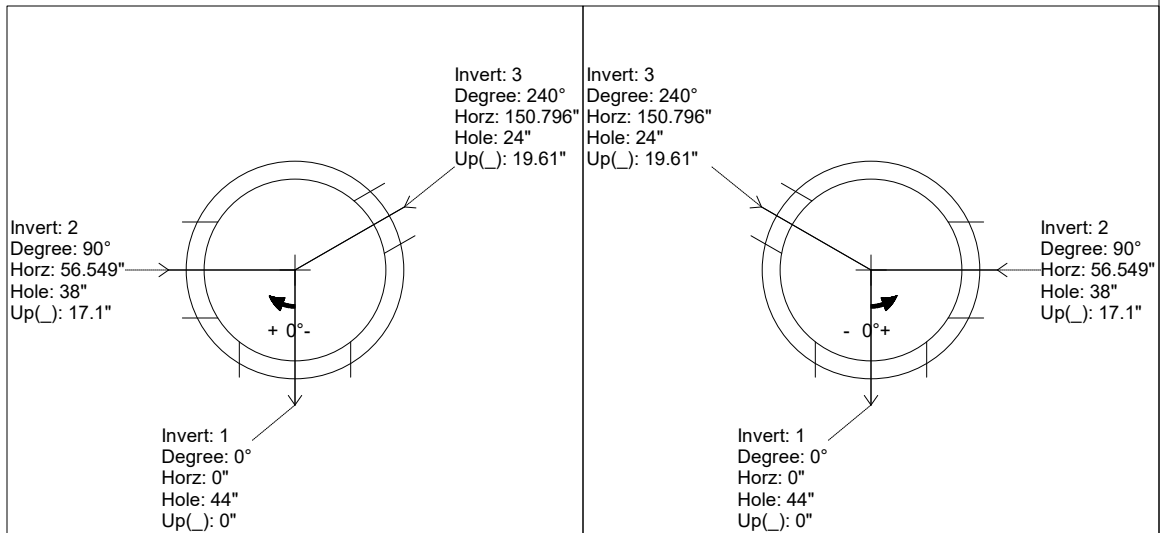
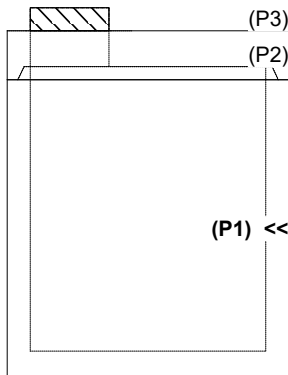
1. PER INDOT/ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .18) WWF OR EQUIV.
 - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.
4. CASTING BY OTHERS.
5. THIS IS FOR THE BASE SECTION (P1) ONLY. THE FLAT TOP (P2) THAT WAS PREVIOUSLY PROVIDED FOR THIS STRUCTURE.

Rim: 379.19' Rim to Invert: 8.72' Slack: 2.49' Sump: 2.85' Step Position:

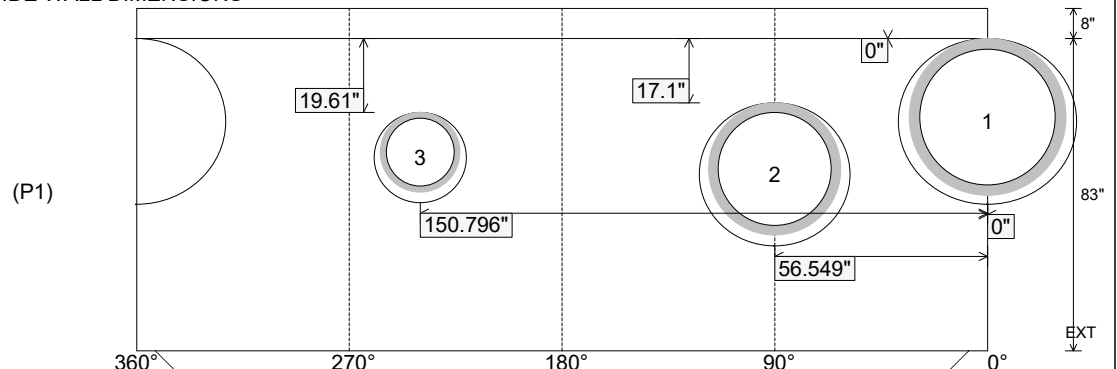
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	370.47'	0°	0"	36" HDPE	41.7"	Hole 44	44"	47.337"	0"	0"
Invert 2	371.87'	90°	67.544"	30" HDPE	35.1"	Hole 38	38"	40.031"	17.1"	0"
Invert 3	372'	240°	180.118"	18" HDPE	21.2"	Hole 24	24"	24.468"	19.61"	0"
Invert 4										
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: 7"
Floor Height: 8"

Height (Int): 83"
Height (Ext): 91"

Weight (Net): 14084 lb
Volume (Net): 3.6cu.yd

Job Name: 26-2254 - Wilder Box Culvert
Job Location: Wilder, KY
Contractor: Eaton Asphalt

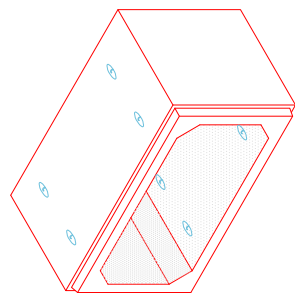
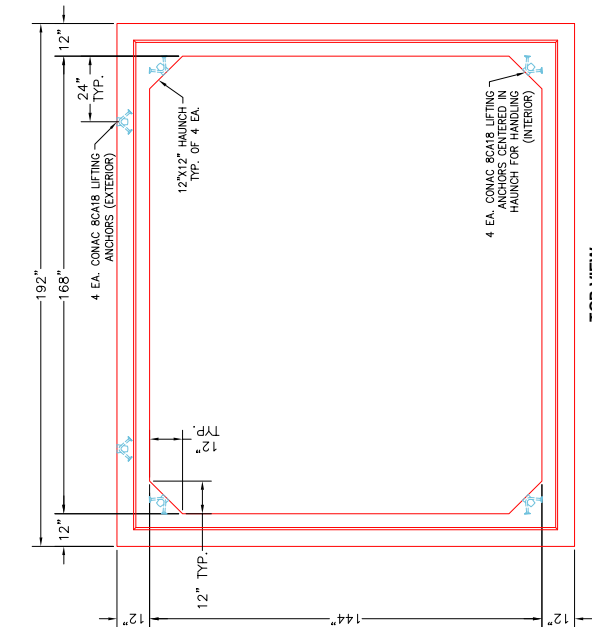
Plant: 100
7/6/2026 1:23:19 PM

Tech: Jared - A
PC: E. Bradley

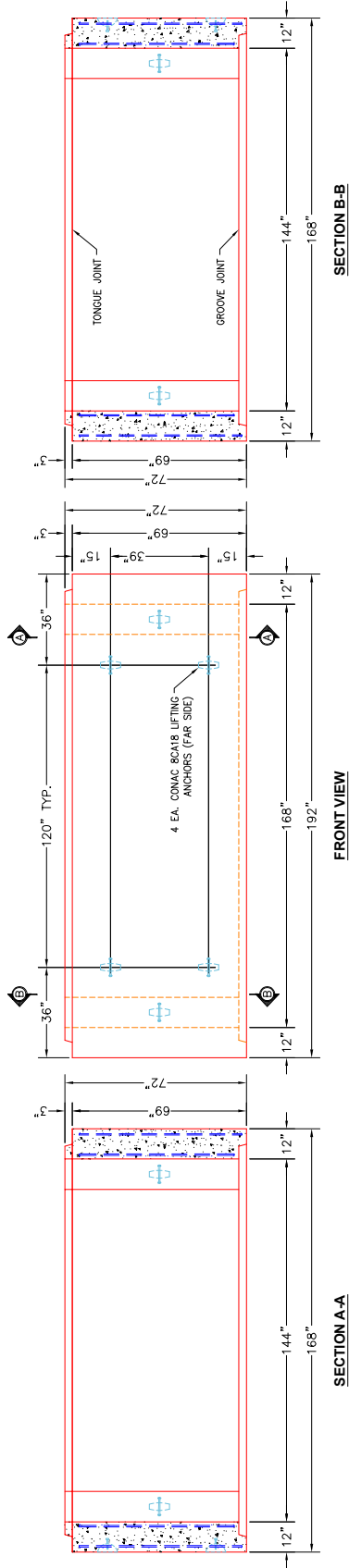
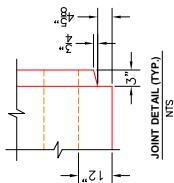


Structure ID: Box Culvert
P16 BC168144-12W12T12F-12H BOX CULVERT (12W/12F/12T) T/G

- NOTES:
- 1. BOX CULVERT IS DESIGNED PER ATTACHED PE STAMPED DRAWINGS & CALCULATIONS.
 - 2. LOAD REQUIREMENTS PER KY-HL93 (KY TABLE 1)
 - 3. COVER DEPTH = 15' - 0"
 - 4. CONCRETE: 5,000 PSI AT 28 DAYS.
 - 5. REINFORCING: AS SHOWN BY MATT CHILDS ENGINEERING.
 - 6. BOX CULVERT TO BE SEALED WITH CS-102 ROLL BUTYL MASTIC & CS-212 12" WRAP. (SUPPLIED BY ICAST).
 - 7. WEIGHT: 48,363 LBS.

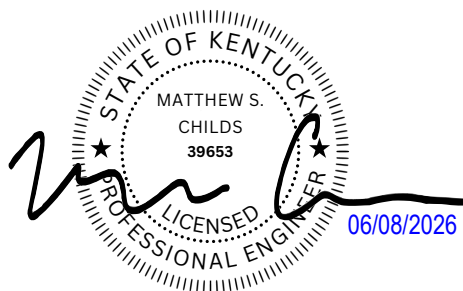


COMPONENT ISOMETRIC VIEW



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 12" Floor Height: 0"	Height (Int): 69" Height (Ext): 69"	Weight (Net): 48363 lb Volume (Net): 12.35cu.yd
----------------------------------	------------------------------------	---	--	--

Project: Mooch Road
Product: 14' x 12' Box Culvert
Job: 26-2254
Design No.:
Location: Wilder, KY
Reference #:



MATT CHILDS ENGINEERING, PLLC

Project : City of Wilder
Task : 14x12 15' Fill
Job No. :

Client: ICast
File: 20260605-ICast-CityofWilder-14x12(15'Fill).etcx

Sht ____ of ____
By:MBJ
Ck:
6/5/2026 4:35:08 PM
p. 1 of 2

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

Physical Dimensions

Clear Span: 14'-0"
Clear Height: 12'-0"
Top Slab: 1'-0"
Bottom Slab: 1'-0"
Ext. Wall: 1'-0"
Fill Depth: 15.00 ft
Length: 4'-0"
Skew Angle: 0.00 deg
Bottom Slab Support: Full Slab
Top Haunch, Width: 1'-0"
Top Haunch, Height: 1'-0"
Bottom Haunch, Width: 1'-0"
Bottom Haunch, Height: 1'-0"

Material Properties

Concrete
Strength, f_c: 5.000 ksi
Density: 0.150 kcf
Elasticity, E_c: 3834 ksi
Type: Normal wt

Steel
Yield, f_y: 65 ksi
Allow Stress: 39 ksi
Elasticity, E_s: 29000 ksi

Soil
Density: 0.120 kcf

Exposure Factor
Class 2 Exposure

Reinforcement Covers

Ext. Cover Top Slab: 1"
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: 5.85
Operating Rating: 7.59

Loads

Live Load

Vehicle Names: HL-93
Traffic Direction: Parallel
Eq. Height of Soil: 2.00 ft (Calc'd)

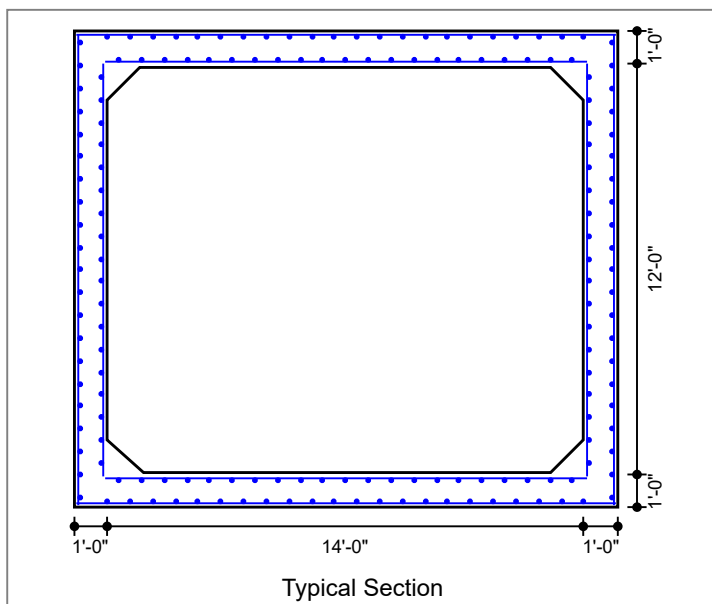
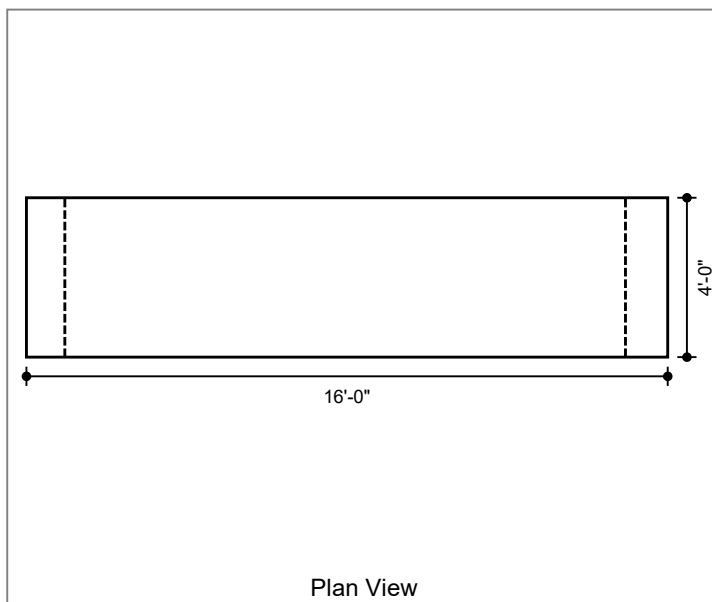
Dead Load

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



MATT CHILDS ENGINEERING, PLLC

Sht ____ of ____

By:MBJ

Ck:_____

6/5/2026 4:35:09 PM

p. 2 of 2

Project : City of Wilder

Task : 14x12 15' Fill

Job No. :

Client: ICast

File: 20260605-ICast-CityofWilder-14x12(15'Fill).etcx

Concrete Summary

Volume of Concrete: 2.148 cy/ft Total Volume of Concrete: 8.593 cy

Reinforcing Steel Bar Schedule (lb)

Location	Mark	Sheets Included	As Provided
Top Slab(Int)	A100 (AS2)	Top	1.200
Bot Slab(Int)	A200 (AS3)	Bot	1.290
Top Slab(Ext)	A300 (AS7)	Top	0.300
Bot Slab(Ext)	A400 (AS8)	Bot	0.300
Corner(Top)	A1 (AS1)	Top	0.780
Corner(Bot)	A2 (AS1)	Bot	0.780
Wall(Int)	B1 (AS4)	L&R	0.300
Wall(Ext)	B2 (AS1)	L&R	0.780
Longit. Top (Int)	C100 (AS5)	Top	0.150
Longit. Bot (Int)	C200	Bot	0.150
Longit. Top (Ext)	C1 (AS6)	Top	0.150
Longit. Bot (Ext)	C1 (AS6)	Bot	0.150
Longit. Wall (Ext)	C1 (AS6)	L&R	0.150
Longit. Wall (Int)	C1 (AS6)	L&R	0.150

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320)
Job Location: Independence, KY
Contractor: Eaton Asphalt

Plant: 100

Tech: Jared - A

7/1/2026 12:30:35 PM

PC: J. Jarvis



Structure ID: 454

P1 BX2436-08BVF

BOX BASE 8inW, 8inF, Variable Ht

P3) 24" x 120" - CB INLET KY A 10' TOP RIGHT - 10"
P2) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT - 18"
P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 33"
1) CASTING - HOE KY-206 F/C (KY TY1)
1) 24" x 36" - Conseal CS-102 1.00"
1) Hole - 24
1) Hole - 20
2) Hole - 8

3398 lb
5270 lb
4257 lb
206 lb
0 lb
0 lb
0 lb
0 lb
0 lb

Structure Total: 13131 lb

Structure Notes:

** KYTC STATE PROJECT **

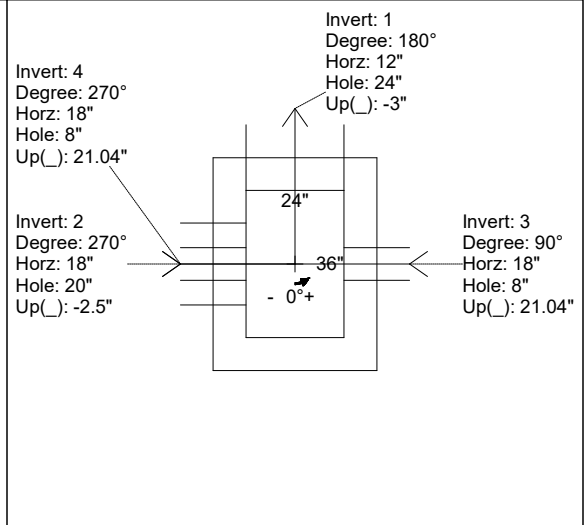
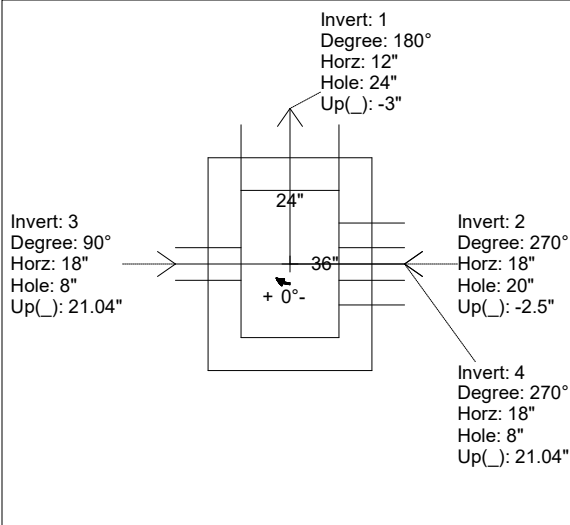
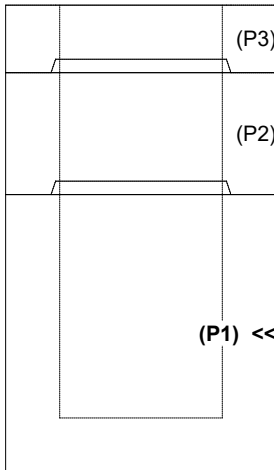
1. HOE KY 206 F/C (KY TY1) PROVIDED BY ICAST.
2. CONCRETE = 4,000 PI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
 - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.
4. KY-206 FRAME & COVER "STORM" SUPPLIED BY ICAST
FRAME TO BE CAST INTO TOP PHASE TOP FLANGE
SIDE UP

Rim: 883' Rim to Invert: 5.09' Slack: 0.08" Sump: 0" Step Position:

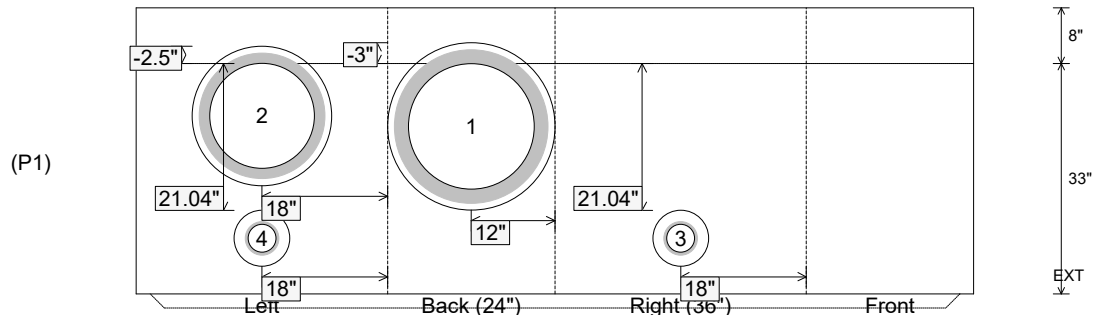
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	877.91'	180°	20"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"
Invert 2	877.91'	270°	26"	15" ADS N-12	18"	Hole 20	20"	20"	-2.5"	0"
Invert 3	879.83'	90°	26"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	21.04"	0"
Invert 4	879.83'	270°	26"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	21.04"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



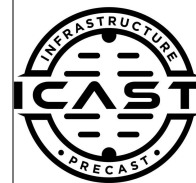
Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 33"
Height (Ext): 41"

Weight (Net): 4257 lb
Volume (Net): 1.09cu.yd



Weight (Net): 4030 lb
Volume (Net): 1.03cu.yd

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320) Job Location: Independence, KY Contractor: Eaton Asphalt					Plant: 100		Tech: Jared - A			
					7/1/2026 12:30:24 PM		PC: J. Jarvis			
Structure ID: 457										
P1 BX2436-08BVF					BOX BASE 8inW, 8inF, Variable Ht					
P3) 24" x 120" - CB INLET KY A 10' TOP RIGHT - 10" P2) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT - 18" P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 29" 1) CASTING - HOE KY-206 F/C (KY TY1) 1) 24" x 36" - Conseal CS-102 1.00" 1) Hole - 20 1) Hole - 8					3398 lb 5270 lb 4111 lb 206 lb 0 lb 0 lb 0 lb ----- Structure Total: 12985 lb		Structure Notes: ** KYTC STATE PROJECT ** 1. HOE KY 206 F/C (KY TY1) PROVIDED BY ICAST. 2. CONCRETE = 4,000 PI AT 28 DAYS. 3. REINFORCING PER ASTM A615 (GRADE 60). - TOP PHASE (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. 4. KY-206 FRAME & COVER "STORM" SUPPLIED BY ICAST FRAME TO BE CAST INTO TOP PHASE TOP FLANGE SIDE UP			
Rim: 891.02' Rim to Invert: 4.75' Slack: 0" Sump: 0" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	886.27'	180°	20"	15" ADS N-12	18"	Hole 20	20"	20"	-2.5"	0"
Invert 2	887.85'	0°	20"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	16.96"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 29" Height (Ext): 37"	Weight (Net): 4111 lb Volume (Net): 1.05cu.yd
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Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320)
Job Location: Independence, KY
Contractor: Eaton Asphalt

Plant: 100

Tech: Jared - A

7/1/2026 12:30:22 PM

PC: J. Jarvis



Structure ID: 456

P1 BX2436-08BVF

BOX BASE 8inW, 8inF, Variable Ht

P3) 24" x 120" - CB INLET KY A 10' TOP RIGHT - 10"
P2) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT - 18"
P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 29"
1) CASTING - HOE KY-206 F/C (KY TY1)
1) 24" x 36" - Conseal CS-102 1.00"
2) Hole - 20
2) Hole - 8

3398 lb
5270 lb
3866 lb
206 lb
0 lb
0 lb
0 lb

Structure Total: 12740 lb

Structure Notes:

** KYTC STATE PROJECT **

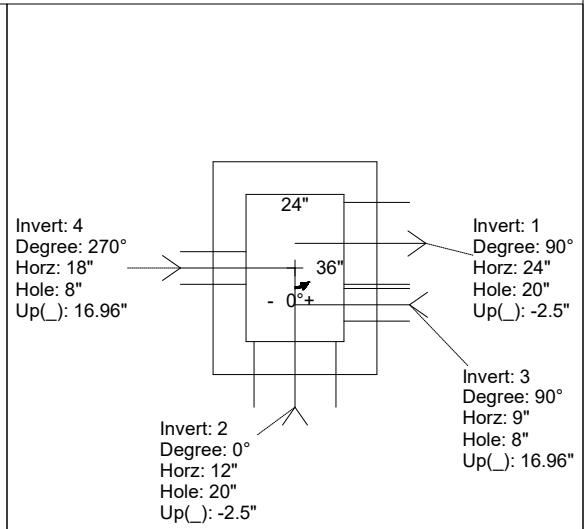
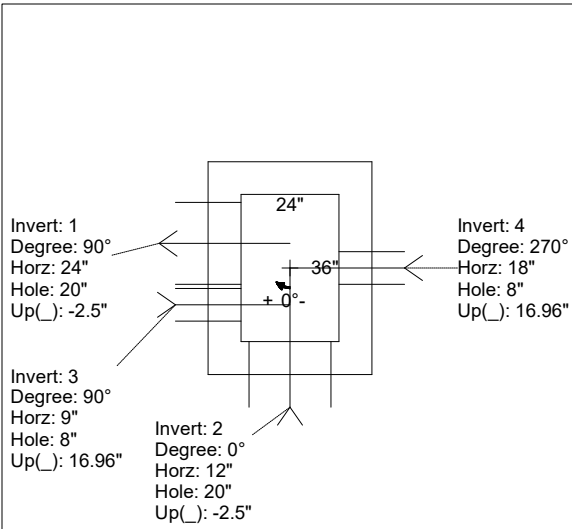
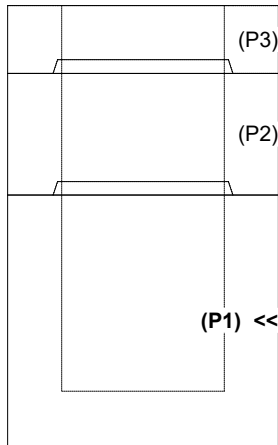
1. HOE KY 206 F/C (KY TY1) PROVIDED BY ICAST.
2. CONCRETE = 4,000 PI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
 - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.
4. KY-206 FRAME & COVER "STORM" SUPPLIED BY ICAST
FRAME TO BE CAST INTO TOP PHASE TOP FLANGE
SIDE UP

Rim: 889.23' Rim to Invert: 4.75' Slack: 0" Sump: 0" Step Position:

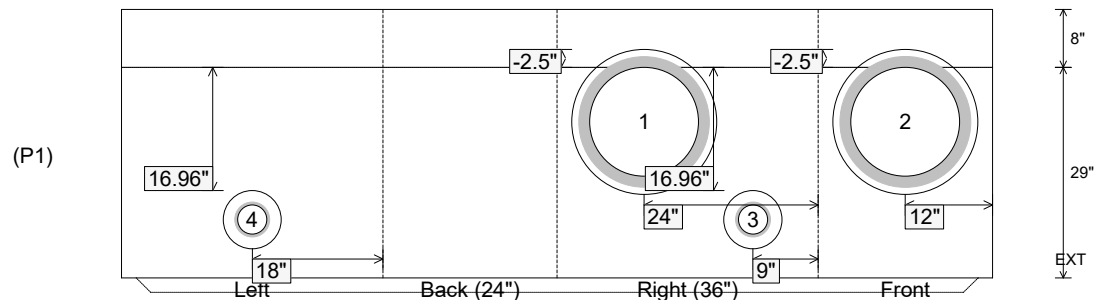
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	884.48'	90°	32"	15" ADS N-12	18"	Hole 20	20"	20"	-2.5"	6"
Invert 2	884.48'	0°	20"	15" ADS N-12	18"	Hole 20	20"	20"	-2.5"	0"
Invert 3	886.06'	90°	17"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	16.96"	-9"
Invert 4	886.06'	270°	26"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	16.96"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

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

Weight (Net): 3866 lb
Volume (Net): 0.99cu.yd

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

Job Location: Independence, KY

Contractor: Eaton Asphalt

Plant: 100

7/1/2026 12:30:28 PM

Tech: Jared - A

PC: J. Jarvis

Structure ID: 452

P1 BX2436-08BVF

BOX BASE 8inW, 8inF, Variable Ht

P3) 24" x 120" - CB INLET KY A 10' TOP RIGHT - 10"

P2) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT - 18"

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

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

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

2) Hole - 24

1) Hole - 20

2) Hole - 8

3398 lb

5270 lb

4030 lb

206 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 12903 lb

Structure Notes:

** KYTC STATE PROJECT **

1. HOE KY 206 F/C (KY TY1) PROVIDED BY ICAST.

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

3. REINFORCING PER ASTM A615 (GRADE 60).

- TOP PHASE (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.

4. KY-206 FRAME & COVER "STORM" SUPPLIED BY ICAST

FRAME TO BE CAST INTO TOP PHASE TOP FLANGE

SIDE UP

Rim: 874.63'

Rim to Invert: 5.09'

Slack: 0.08"

Sump: 0"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	869.54'	180°	20"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"
Invert 2	869.54'	270°	26"	15" ADS N-12	18"	Hole 20	20"	20"	-2.5"	0"
Invert 3	869.54'	0°	20"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"
Invert 4	871.46'	90°	26"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	21.04"	0"
Invert 5	871.46'	270°	26"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	21.04"	0"
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

(P3)

(P2)

(P1) <<

INSIDE WALL DIMENSIONS

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

Height (Int): 33"

Height (Ext): 41"

Weight (Net): 4030 lb

Volume (Net): 1.03cu.yd

Job Name: 26-1635 - KYTC Oldham Co (261505) Job Location: Peewee Valley, KY Contractor: Cleary Construction, Inc.					Plant: 100 7/23/2026 3:01:03 PM		Tech: Jared - F PC: T. Ryan						
Structure ID: 37887-149 MHC													
P2		BX4848-08RVF		BOX RISER 8inW F/G									
P8) 24" - CASTING HEIGHT - 4" P7) 24" - GRADE RING F/F - 4" P6) 48" - ECC CONE w/ 24" HOLE F/G - 42" P5) 48" - MH RISER T/G - 72" P4) 48" - MH RISER T/G - 72" P3) 48" x 48" - CB FT REDUCER 48" HOLE T/F - 12" P2) 48" x 48" - BOX RISER 8inW F/G - 36" P1) 48" x 48" - BX BASE w/FLANGE 08W/12F/08EF T/n - 48" 2) 48" x 48" - Conseal CS-102 1.00" 3) 48" - Conseal CS-102 1.00" 2) 24" - Conseal CS-102 1.00" 2) Hole - 40 1) Hole - 18 24) MH Step ML-10-TDS-NCR - 10"						0 lb 270 lb 3200 lb 5030 lb 5030 lb 2302 lb 5216 lb 11975 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 33023 lb		Structure Notes: ** KYTC STATE PROJECT** 1. PER KYTC MANHOLE TYPE C / ASTM C913 SPEC'S. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING SUPPLIED BY OTHERS (HOE KY-206 F/C (KY TY1)). 4. SECONDARY POUR REQ'D FOR EXTENDED FLANGE(8"WD x 12" THICK). REINFORCING PER ASTM A615 (GRADE 60). - CONE (As.12) - RISER/WALLS (As.12) - TRANS. SLAB #5's AT 6" C.C.E.W (DBL MAT). - WALLS #5's AT 6" C.C.E.W. - FLOOR #5's AT 12" C.C.E.W..					
Rim: 764.77'		Rim to Invert: 24.32'		Slack: 1.84"		Sump: 0"		Step Position: 90°					
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset			
Invert 1													
Invert 2													
Invert 3	745.55'	300°	36.625"	15" CMP	16"	Hole 18	18"	20.785"	9.75"	-12"			
Invert 4													
Invert 5													
Invert 6													
Invert 7													
Invert 8													

(P8)
(P7)

(P6)

(P5)

(P4)

(P3)

(P2) <<

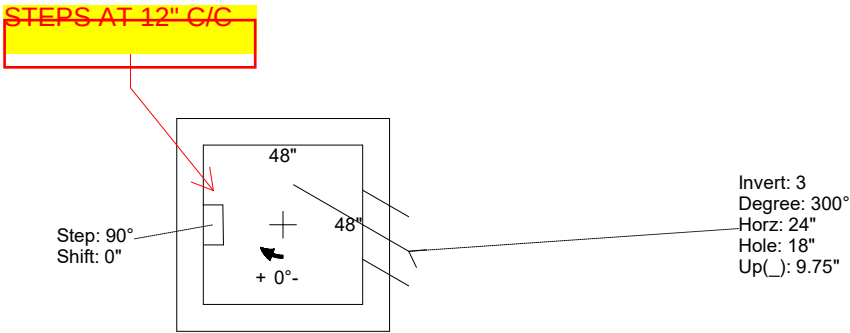
(P1)

8"

8"

80"

RIGHT-SIDE UP VIEW (int. dimensions)



STEPS AT 12" C/C

Step: 90° Shift: 0"

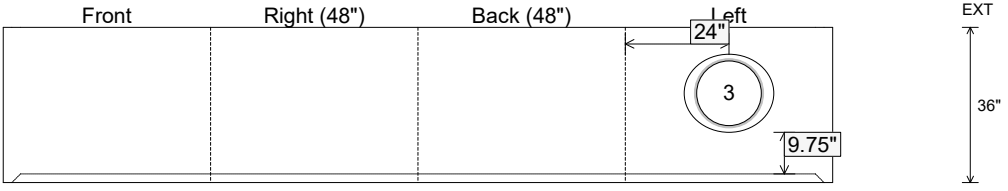
48"

48"

3

Invert: 3
Degree: 300°
Horz: 24"
Hole: 18"
Up(): 9.75"

INSIDE WALL DIMENSIONS



Front

Right (48")

Back (48")

Left

24"

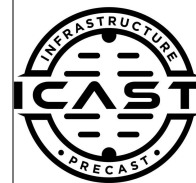
3

9.75"

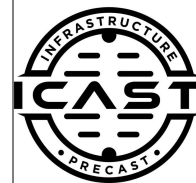
36"

(P2)

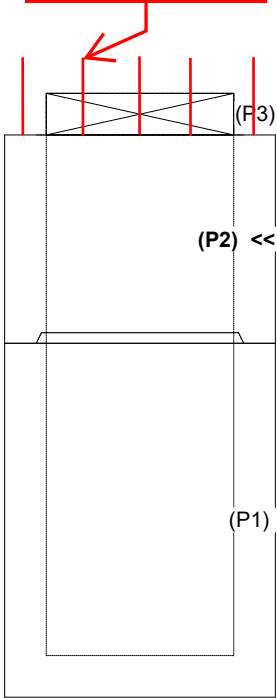
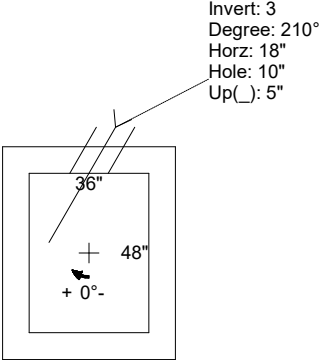
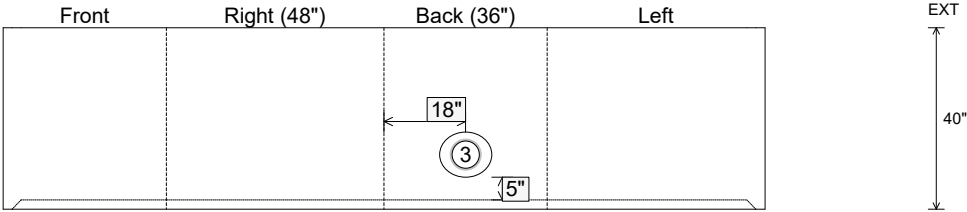
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 8" Floor Height: 0"	Height (Int): 36" Height (Ext): 36"	Weight (Net): 5216 lb Volume (Net): 1.33cu.yd
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Weight (Net): 13069 lb
Volume (Net): 3.34cu.yd

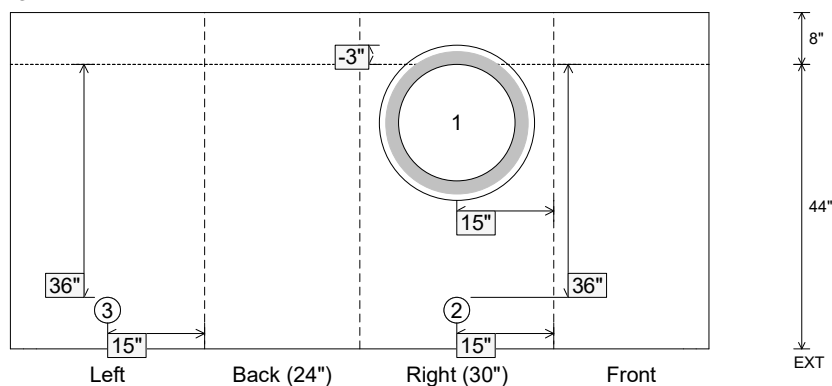
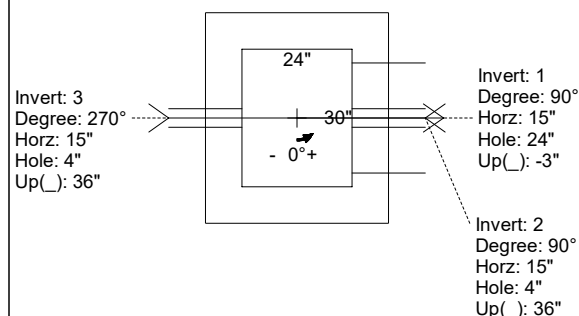
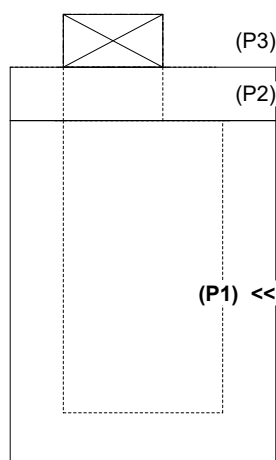


Weight (Net): 13069 lb
Volume (Net): 3.34cu.yd

Job Name: 26-2038 - Sturgis Municipal Airport-Ph2 Job Location: Sturgis, KY Contractor: M. Bowling, Inc.					Plant: 100 7/31/2026 11:12:48 AM		Tech: Jared - F PC: A. Chambers					
Structure ID: C1 DBI2												
P2		BX3648-08R-VH										
P3) 36" x 48" - P.I.P. - BY OTHERS - 8" P2) 36" x 48" - BOX RISER 8inW, Variable Ht F/G - 40" P1) 36" x 48" - BOX BASE 8inW, 8inF, Variable Ht T/n - 60" 1) CASTING - HOE KY-398 SET (DBI 2) 2) 36" x 48" - Conseal CS-102 1.00" 1) Hole - 48 1) Hole - 40 1) Hole - 10					0 lb 5309 lb 8535 lb 398 lb 0 lb 0 lb 0 lb 0 lb 0 lb		Structure Notes: 1. KYTC DBI TYPE 2 / ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. STUB #5 BARS 20" OUT TOP OF WALLS (SPA@12"C/C) 4. CASTING SUPPLIED BY ICAST (HOE KY-398 SET (DBI 2)). 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: 368.18'					Rim to Invert: 8.53'		Slack: 0.36"		Sump: 6"		Step Position:	
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset		
Invert 1												
Invert 2												
Invert 3	364.9'	210°	30.625"	6" HDPE	6.9"	Hole 10	10"	11.547"	5"	-12"		
Invert 4												
Invert 5												
Invert 6												
Invert 7												
Invert 8												
#5 DOWELS @ 12" O.C. STUBBED 20" OUT THE TOP OF THE WALLS 												
RIGHT-SIDE UP VIEW (int. dimensions) 												
INSIDE WALL DIMENSIONS 												
Coating (Int): Coating (Ext):			Seam Up: Flat Seam Dn: Groove		Wall Thickness: 8" Floor Height: 0"		Height (Int): 40" Height (Ext): 40"		Weight (Net): 5309 lb Volume (Net): 1.36cu.yd			



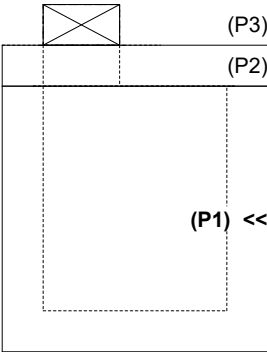
1. PER KYTC DBI TY 13G / ASTM C-913 SPECS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. NO STORM INVERT
5. NO STEPS
6. KY-230G FRAME & GRATE SUPPLIED BY ICAST - POURED IN PLACE BY OTHERS

[illegible]

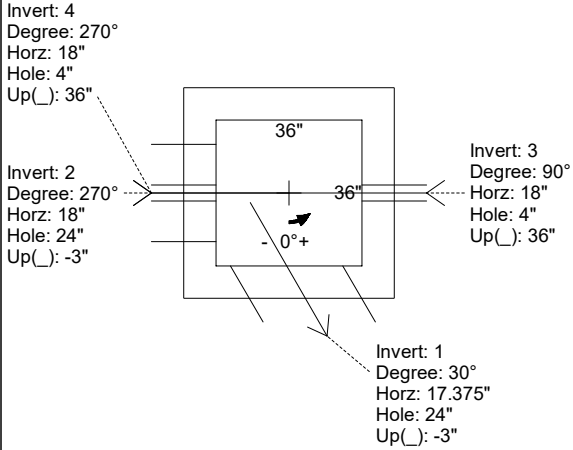
Weight (Net): 5050 lb
Volume (Net): 1.29cu.yd

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320) Job Location: Independence, KY Contractor: Eaton Asphalt				Plant: 100 6/5/2026 9:03:58 AM		Tech: Jared - A PC: J. Jarvis						
Structure ID: 543												
P1 BX3636-08BAVF				BOX BASE 8inW, 8inF, Variable Ht F/n								
P3) 15" x 27" - P.I.P. - BY OTHERS - 8" P2) 36" x 36" - CB FLAT TOP 8"W w/15"x27" HOLE F/F - 8" P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 44" 1) CASTING - HOE KY-230-G F/G (GRADE) 1) 36" x 36" - Conseal CS-102 1.00" 1) 15" x 27" - Conseal CS-102 1.00" 2) Hole - 24 2) Hole - 4						0 lb 1543 lb 6342 lb 237 lb 0 lb 0 lb 0 lb 0 lb ----- 8123 lb		Structure Notes: ** KYTC STATE PROJECT ** 1. PER KYTC DBI TY 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. KY-230G FRAME & GRATE SUPPLIED BY ICAST - POURED IN PLACE BY OTHERS				
Rim: 833.55' Rim to Invert: 5.05' Slack: 0.6" Sump: 0" Step Position:												
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset		
Invert 1	828.5'	30°	30"	18" ADS N-12	22"	Hole 24	24"	27.713"	-3"	-9.5"		
Invert 2	828.5'	270°	26"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"		
Invert 3	831.5'	90°	26"	4" WEEP HOLE	4"	Hole 4	4"	4"	36"	0"		
Invert 4	831.5'	270°	26"	4" WEEP HOLE	4"	Hole 4	4"	4"	36"	0"		
Invert 5												
Invert 6												
Invert 7												
Invert 8												

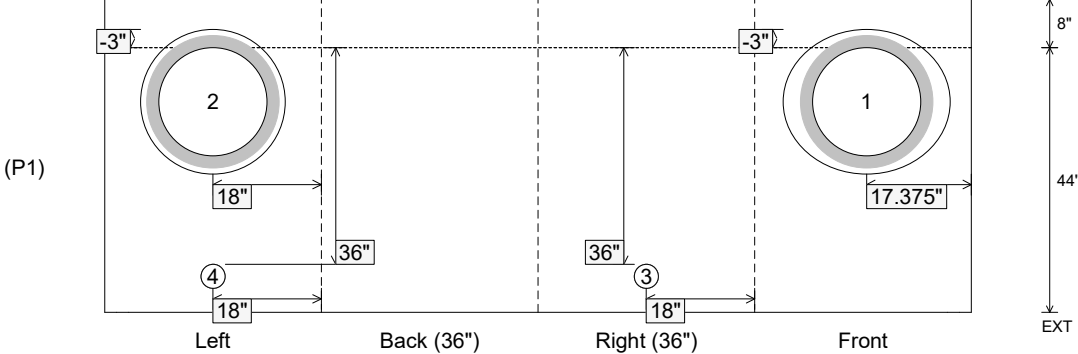
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 44" Height (Ext): 52"	Weight (Net): 6342 lb Volume (Net): 1.62cu.yd
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Job Name: 25-1601C Spring Creek Parkway
Job Location: Clarksville, TN
Contractor: Byard Construction, LLC

Plant: Beaver Dam

8/7/2026 1:08:01 PM

Tech: J. Coppage

PC: A. Chambers



Structure ID: 6in GR

P8 GR28x34x6x6

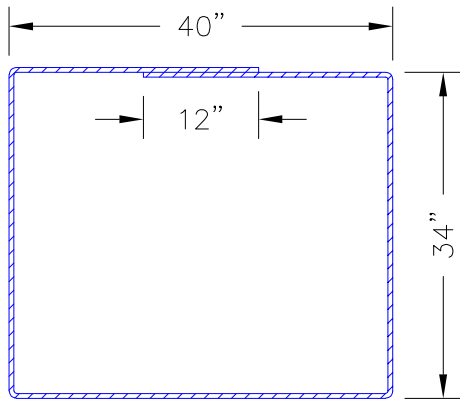
GRADE RING

P13) 28" x 34" - GRADE RING - 6"
P12) 28" x 34" - GRADE RING - 6"
P11) 28" x 34" - GRADE RING - 6"
P10) 28" x 34" - GRADE RING - 6"
P9) 28" x 34" - GRADE RING - 6"
P8) 28" x 34" - GRADE RING - 6"
P7) 28" x 34" - GRADE RING - 6"
P6) 28" x 34" - GRADE RING - 6"
P5) 28" x 34" - GRADE RING - 6"
P4) 28" x 34" - GRADE RING - 6"
P3) 28" x 34" - GRADE RING - 6"
P2) 28" x 34" - GRADE RING - 6"
P1) 28" x 34" - GRADE RING - 6"
13) 28" x 34" - Conseal CS-102 1.00"

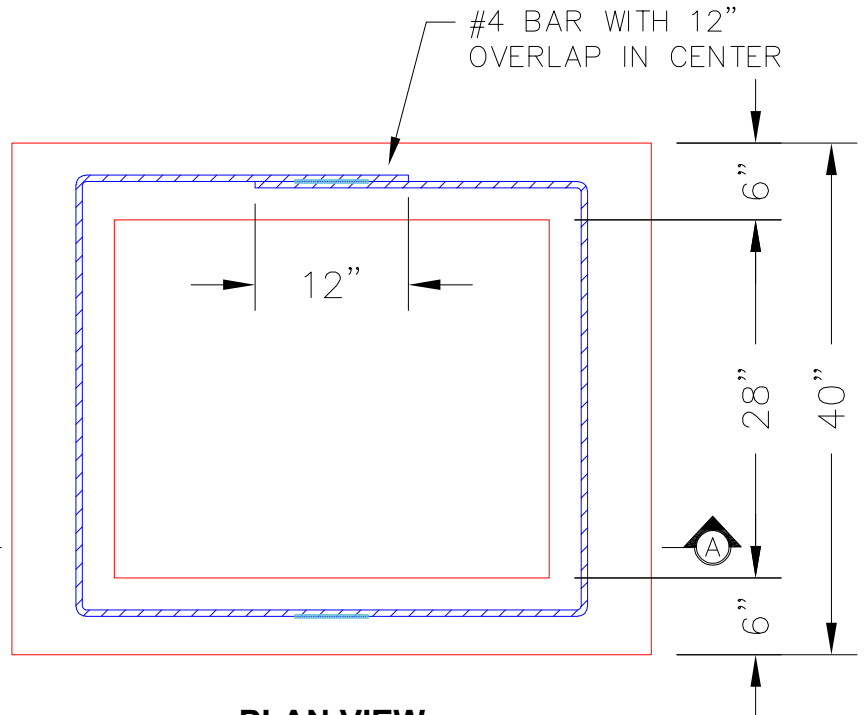
Structure Notes:
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
- AS SHOWN BELOW

447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
0 lb

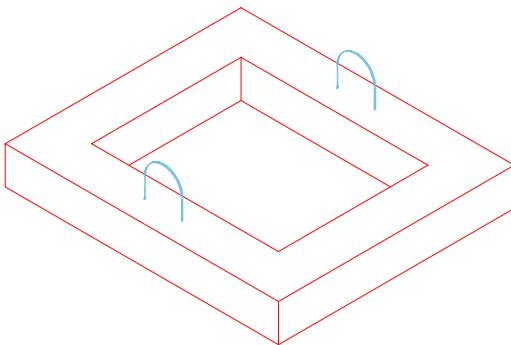
Structure Total: 5812 lb



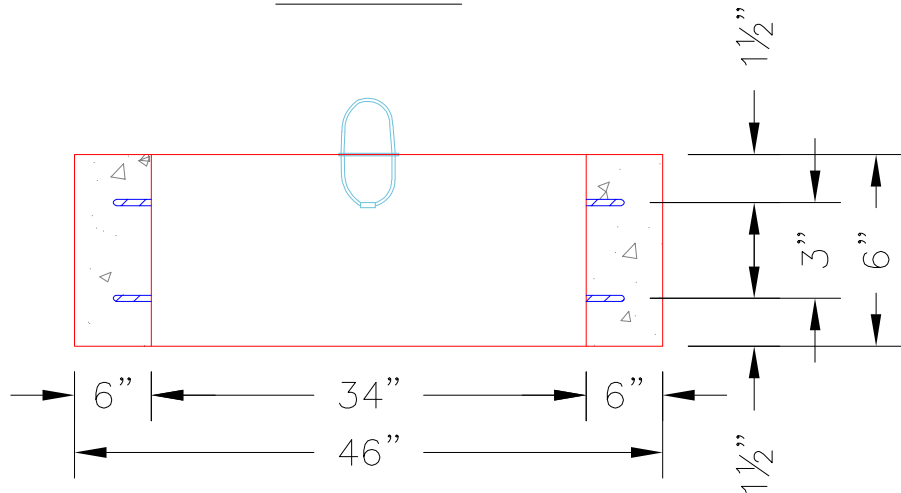
#4 BAR REINFORCING



PLAN VIEW



ISOMETRIC VIEW



SECTION A-A

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 6"

Weight (Net): 447 lb
Volume (Net): 0.11cu.yd

Job Name: 25-1601C Spring Creek Parkway
Job Location: Clarksville, TN
Contractor: Byard Construction, LLC

Plant: Beaver Dam
8/7/2026 1:08:02 PM

Tech: J. Coppage
PC: A. Chambers



Structure ID: 6in GR

P9 GR28x34x6x6

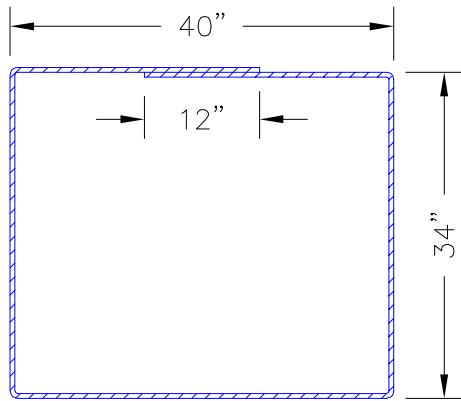
GRADE RING

P13) 28" x 34" - GRADE RING - 6"
P12) 28" x 34" - GRADE RING - 6"
P11) 28" x 34" - GRADE RING - 6"
P10) 28" x 34" - GRADE RING - 6"
P9) 28" x 34" - GRADE RING - 6"
P8) 28" x 34" - GRADE RING - 6"
P7) 28" x 34" - GRADE RING - 6"
P6) 28" x 34" - GRADE RING - 6"
P5) 28" x 34" - GRADE RING - 6"
P4) 28" x 34" - GRADE RING - 6"
P3) 28" x 34" - GRADE RING - 6"
P2) 28" x 34" - GRADE RING - 6"
P1) 28" x 34" - GRADE RING - 6"
13) 28" x 34" - Conseal CS-102 1.00"

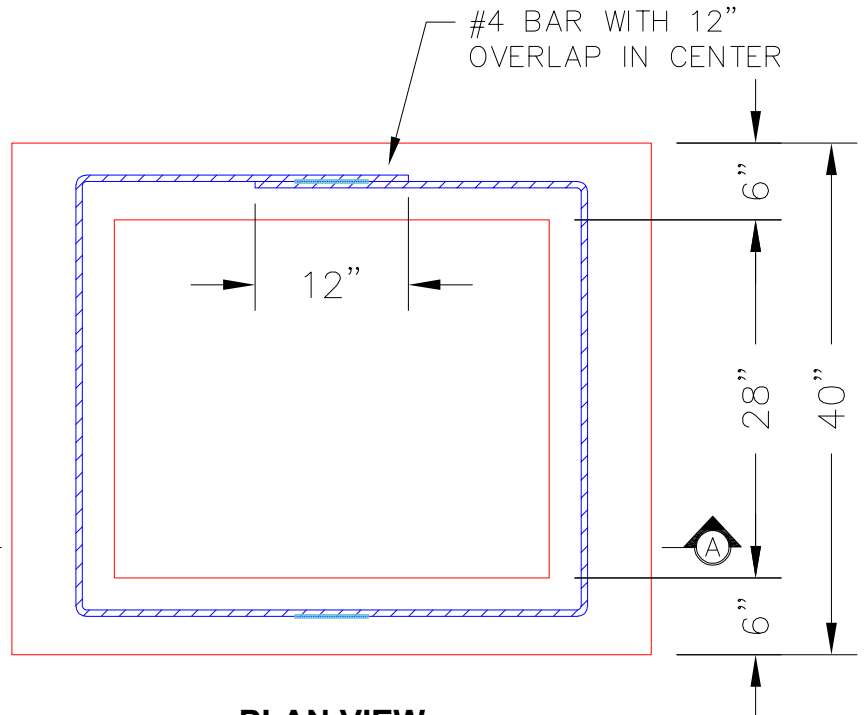
Structure Notes:
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
- AS SHOWN BELOW

447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
0 lb

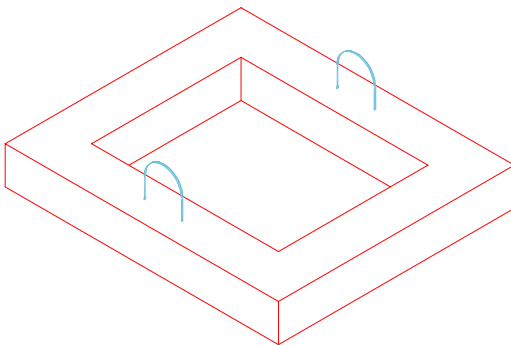
Structure Total: 5812 lb



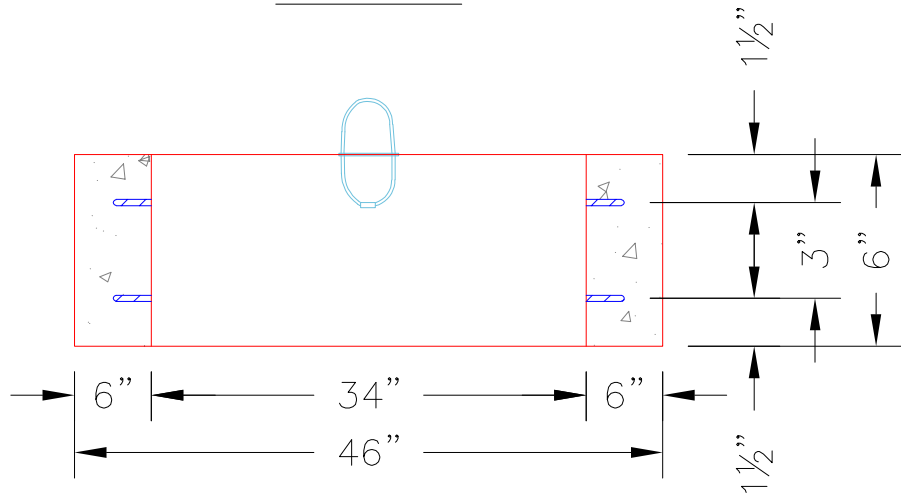
#4 BAR REINFORCING



PLAN VIEW



ISOMETRIC VIEW



SECTION A-A

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 6"

Weight (Net): 447 lb
Volume (Net): 0.11cu.yd



Weight (Net): 447 lb
Volume (Net): 0.11cu.yd

Job Name: 25-1601C Spring Creek Parkway
Job Location: Clarksville, TN
Contractor: Byard Construction, LLC

Plant: Beaver Dam
8/7/2026 1:08:03 PM

Tech: J. Coppage
PC: A. Chambers



Structure ID: 6in GR

P11 GR28x34x6x6

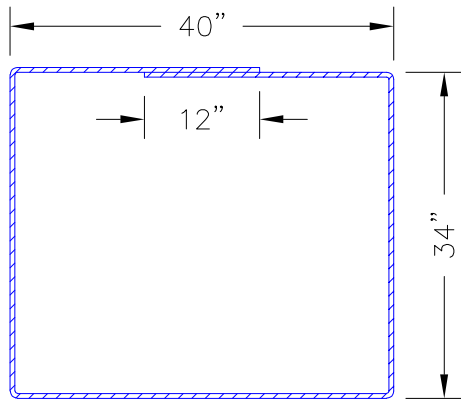
GRADE RING

P13) 28" x 34" - GRADE RING - 6"
P12) 28" x 34" - GRADE RING - 6"
P11) 28" x 34" - GRADE RING - 6"
P10) 28" x 34" - GRADE RING - 6"
P9) 28" x 34" - GRADE RING - 6"
P8) 28" x 34" - GRADE RING - 6"
P7) 28" x 34" - GRADE RING - 6"
P6) 28" x 34" - GRADE RING - 6"
P5) 28" x 34" - GRADE RING - 6"
P4) 28" x 34" - GRADE RING - 6"
P3) 28" x 34" - GRADE RING - 6"
P2) 28" x 34" - GRADE RING - 6"
P1) 28" x 34" - GRADE RING - 6"
13) 28" x 34" - Conseal CS-102 1.00"

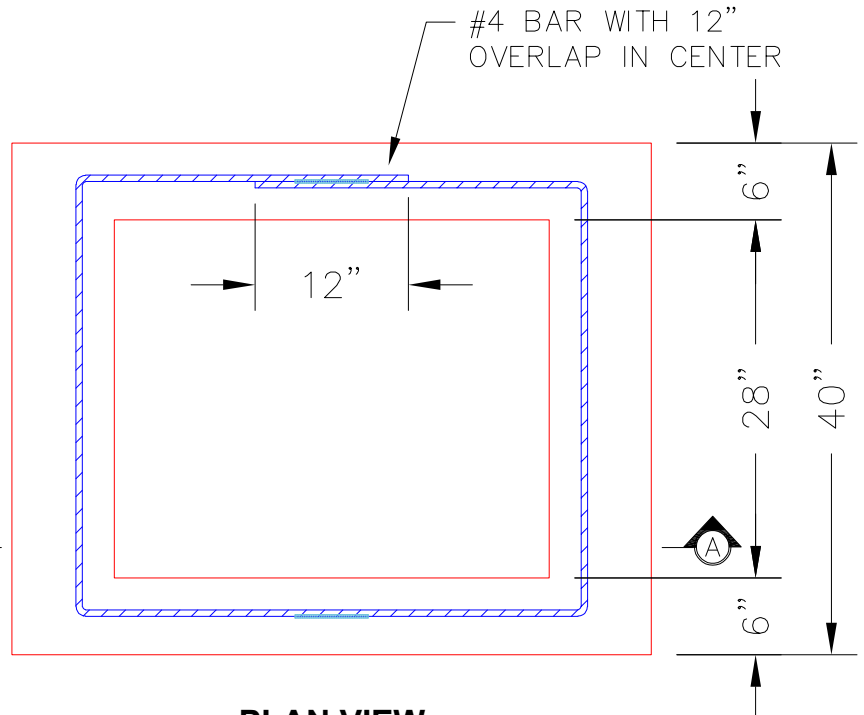
Structure Notes:
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
- AS SHOWN BELOW

447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
447 lb
0 lb

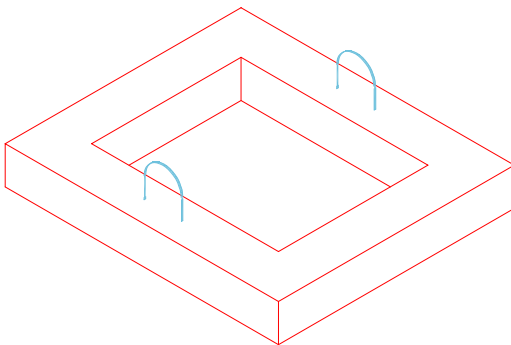
Structure Total: 5812 lb



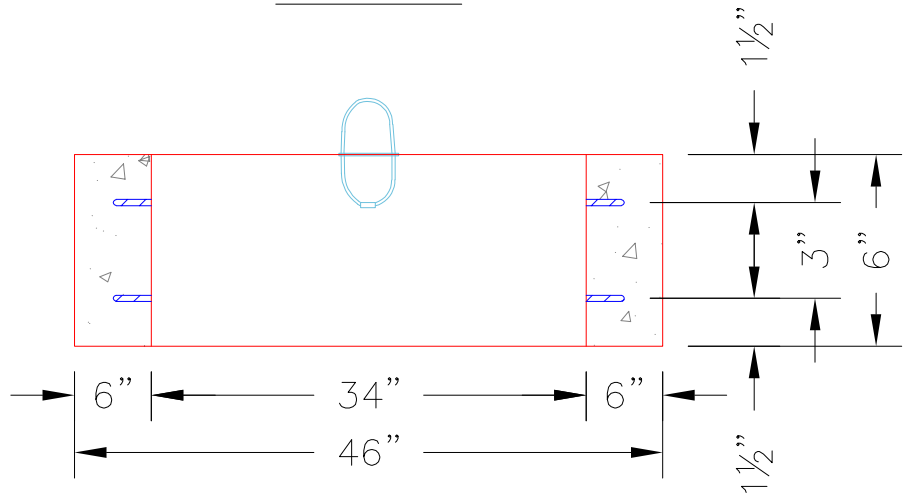
#4 BAR REINFORCING



PLAN VIEW



ISOMETRIC VIEW



SECTION A-A

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 6"

Weight (Net): 447 lb
Volume (Net): 0.11cu.yd

Job Name: 25-1601C Spring Creek Parkway
Job Location: Clarksville, TN
Contractor: Byard Construction, LLC

Plant: Beaver Dam
8/7/2026 1:08:03 PM

Tech: J. Coppage
PC: A. Chambers



Structure ID: 6in GR

P12 GR28x34x6x6

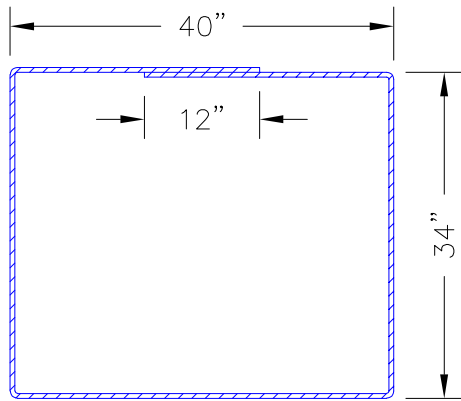
GRADE RING

P13) 28" x 34" - GRADE RING - 6"
P12) 28" x 34" - GRADE RING - 6"
P11) 28" x 34" - GRADE RING - 6"
P10) 28" x 34" - GRADE RING - 6"
P9) 28" x 34" - GRADE RING - 6"
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P7) 28" x 34" - GRADE RING - 6"
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P4) 28" x 34" - GRADE RING - 6"
P3) 28" x 34" - GRADE RING - 6"
P2) 28" x 34" - GRADE RING - 6"
P1) 28" x 34" - GRADE RING - 6"
13) 28" x 34" - Conseal CS-102 1.00"

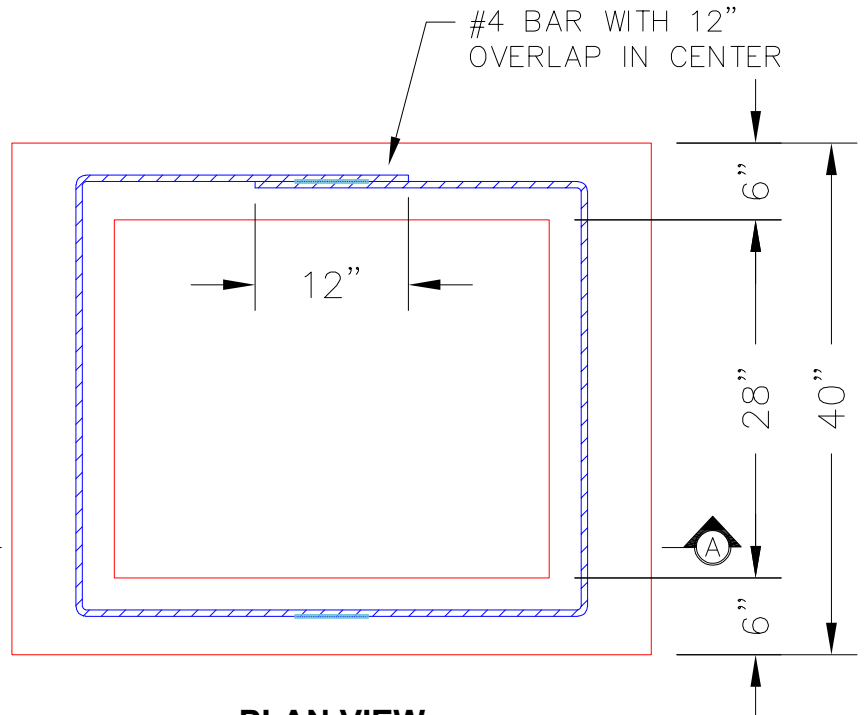
Structure Notes:
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
- AS SHOWN BELOW

447 lb
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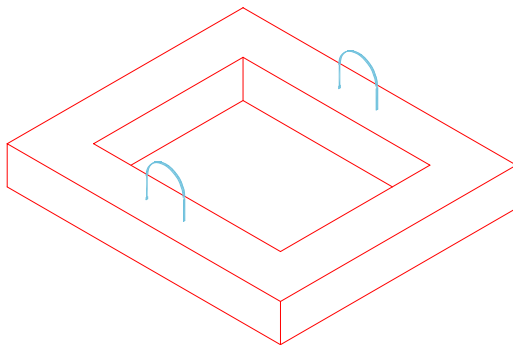
Structure Total: 5812 lb



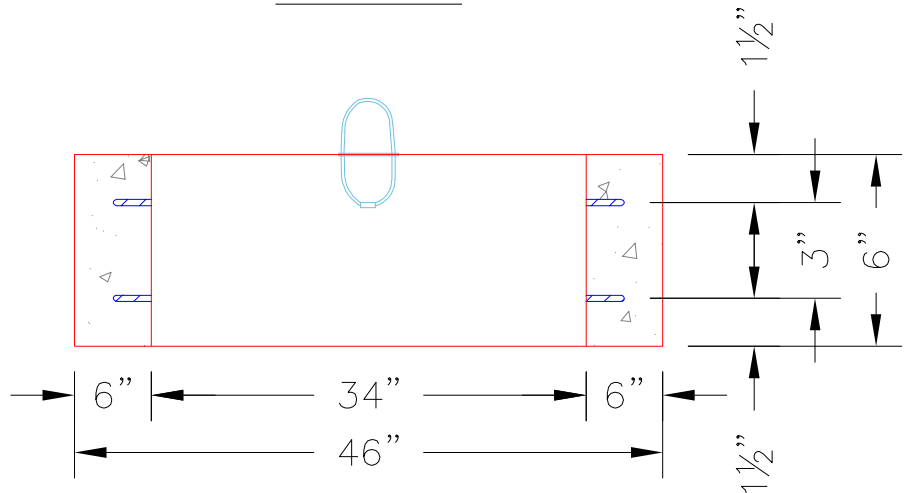
#4 BAR REINFORCING



PLAN VIEW



ISOMETRIC VIEW



SECTION A-A

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 6"

Weight (Net): 447 lb
Volume (Net): 0.11cu.yd

Job Name: 25-1601C Spring Creek Parkway
Job Location: Clarksville, TN
Contractor: Byard Construction, LLC

Plant: Beaver Dam
8/7/2026 1:07:53 PM

Tech: J. Coppage
PC: A. Chambers



Structure ID: 3in GR

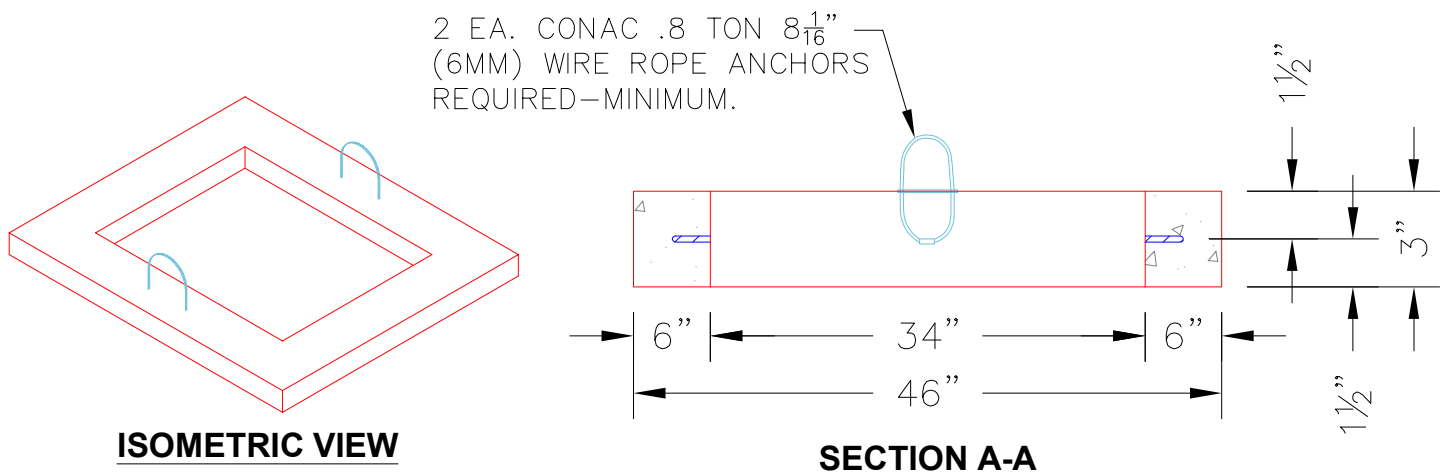
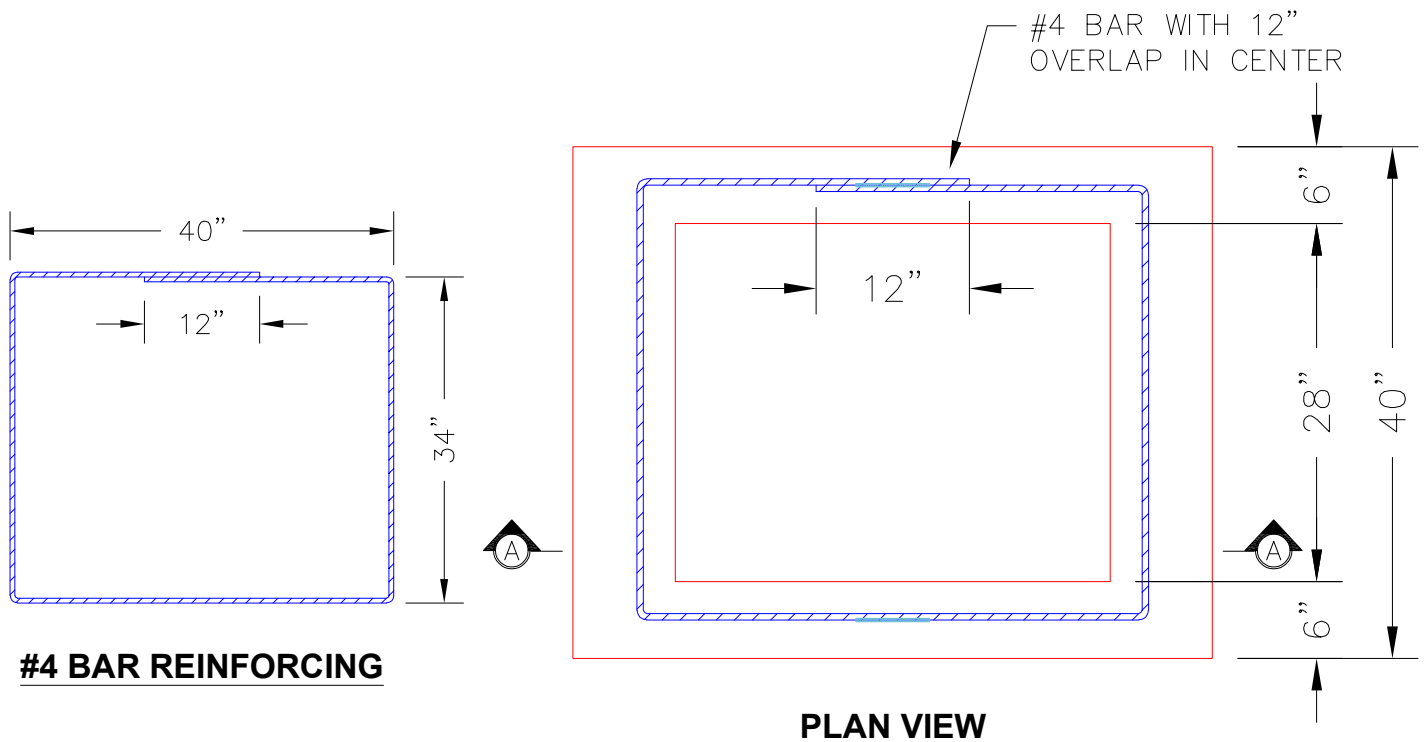
P8 GR28x34x6x3

GRADE RING

P13) 28" x 34" - GRADE RING - 3"
P12) 28" x 34" - GRADE RING - 3"
P11) 28" x 34" - GRADE RING - 3"
P10) 28" x 34" - GRADE RING - 3"
P9) 28" x 34" - GRADE RING - 3"
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P4) 28" x 34" - GRADE RING - 3"
P3) 28" x 34" - GRADE RING - 3"
P2) 28" x 34" - GRADE RING - 3"
P1) 28" x 34" - GRADE RING - 3"
13) 28" x 34" - Conseal CS-102 1.00"

Structure Notes:
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
- AS SHOWN BELOW

224 lb
224 lb
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0 lb
Structure Total: 2906 lb



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 3"

Weight (Net): 224 lb
Volume (Net): 0.06cu.yd

Job Name: 25-1601C Spring Creek Parkway
Job Location: Clarksville, TN
Contractor: Byard Construction, LLC

Plant: Beaver Dam

8/7/2026 1:07:54 PM

Tech: J. Coppage

PC: A. Chambers



Structure ID: 3in GR

P9 GR28x34x6x3

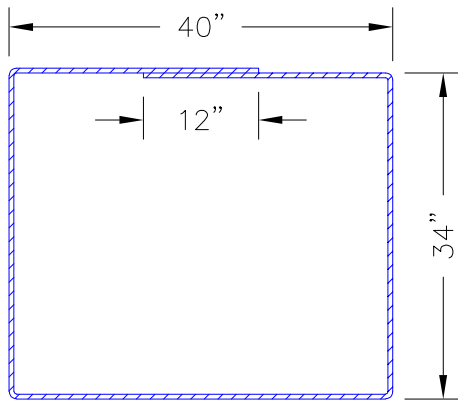
GRADE RING

P13) 28" x 34" - GRADE RING - 3"
P12) 28" x 34" - GRADE RING - 3"
P11) 28" x 34" - GRADE RING - 3"
P10) 28" x 34" - GRADE RING - 3"
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P2) 28" x 34" - GRADE RING - 3"
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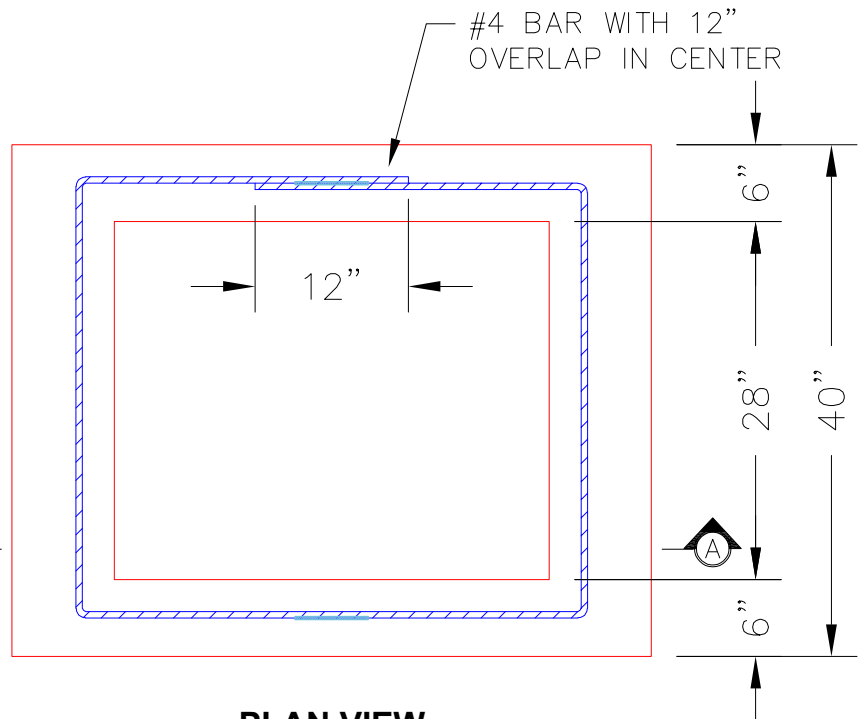
Structure Notes:
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
- AS SHOWN BELOW

224 lb
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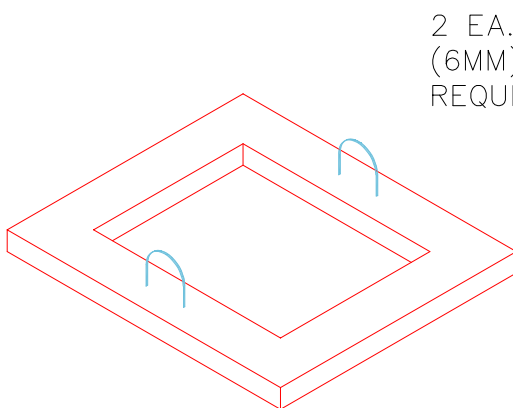
Structure Total: 2906 lb



#4 BAR REINFORCING

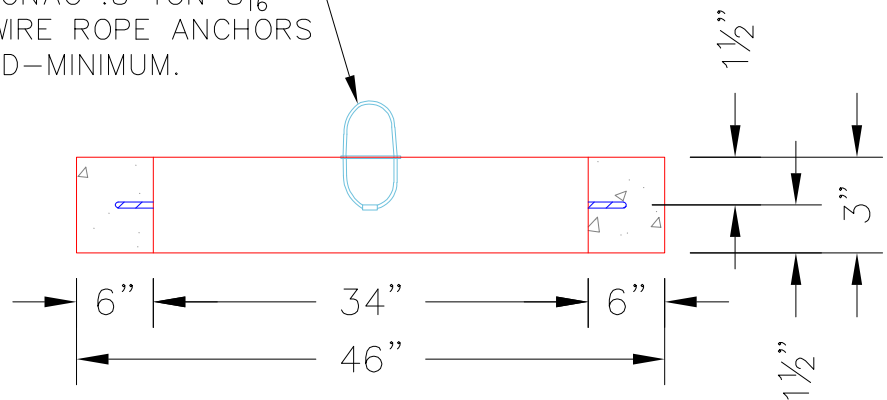


PLAN VIEW



ISOMETRIC VIEW

2 EA. CONAC .8 TON $8\frac{1}{16}$ "
(6MM) WIRE ROPE ANCHORS
REQUIRED—MINIMUM.



SECTION A-A

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 3"

Weight (Net): 224 lb
Volume (Net): 0.06cu.yd

Job Name: 25-1601C Spring Creek Parkway
Job Location: Clarksville, TN
Contractor: Byard Construction, LLC

Plant: Beaver Dam
8/7/2026 1:08:03 PM

Tech: J. Coppage
PC: A. Chambers



Structure ID: 6in GR

P13 GR28x34x6x6

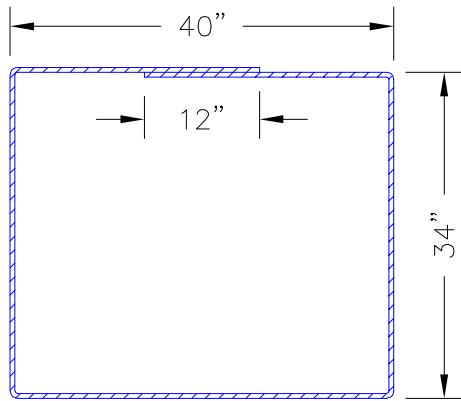
GRADE RING

P13) 28" x 34" - GRADE RING - 6"
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P11) 28" x 34" - GRADE RING - 6"
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P1) 28" x 34" - GRADE RING - 6"
13) 28" x 34" - Conseal CS-102 1.00"

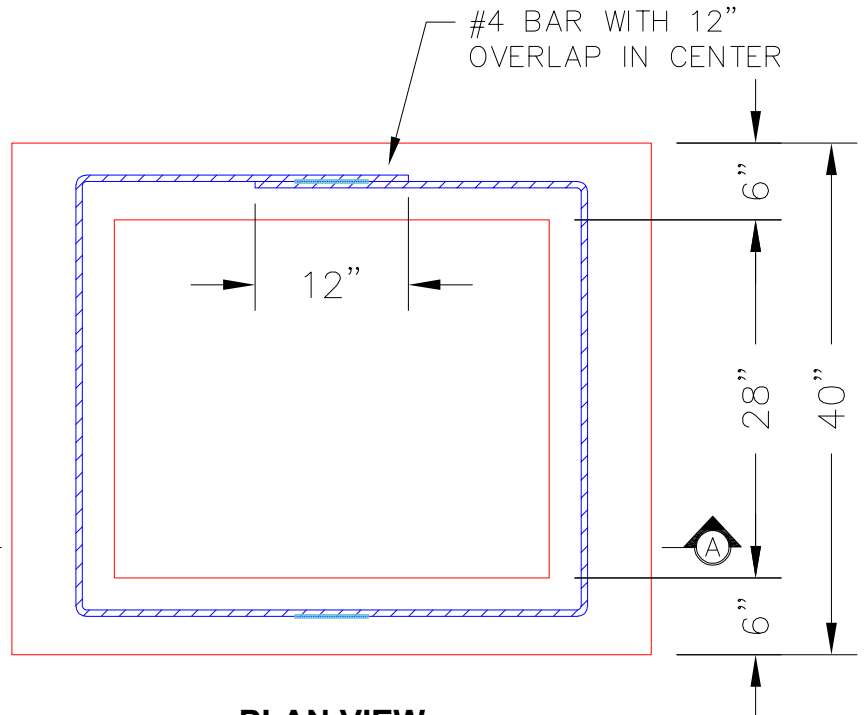
Structure Notes:
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
- AS SHOWN BELOW

447 lb
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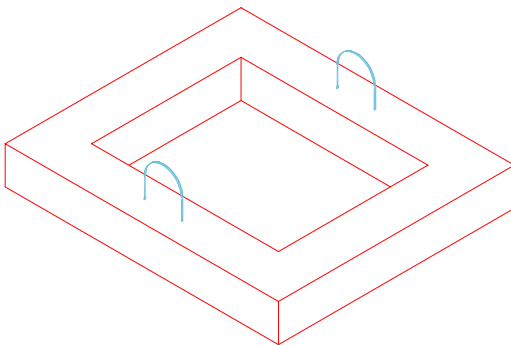
Structure Total: 5812 lb



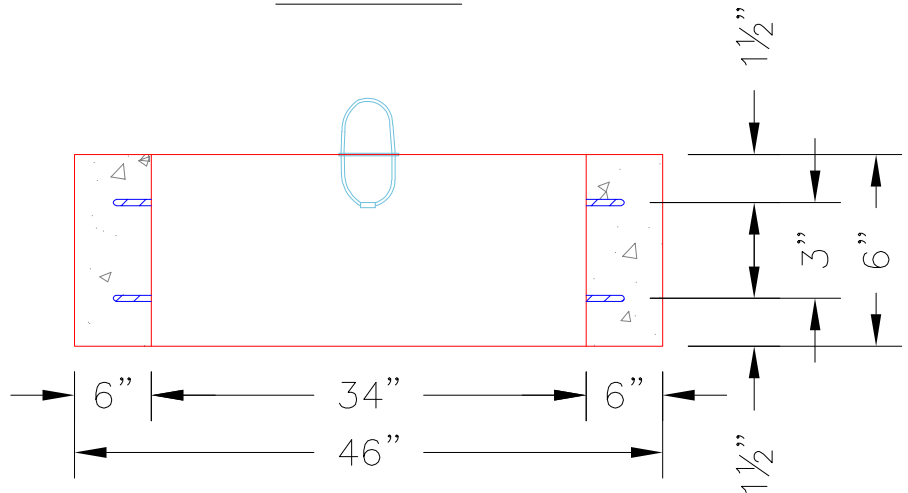
#4 BAR REINFORCING



PLAN VIEW



ISOMETRIC VIEW



SECTION A-A

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 6"

Weight (Net): 447 lb
Volume (Net): 0.11cu.yd

Job Name: 25-1601C Spring Creek Parkway
Job Location: Clarksville, TN
Contractor: Byard Construction, LLC

Plant: Beaver Dam
8/7/2026 1:07:53 PM

Tech: J. Coppage
PC: A. Chambers



Structure ID: 3in GR

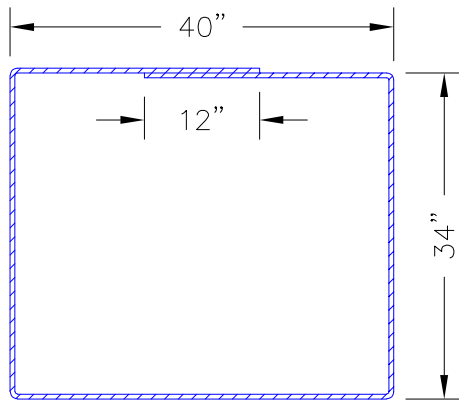
P7 GR28x34x6x3

GRADE RING

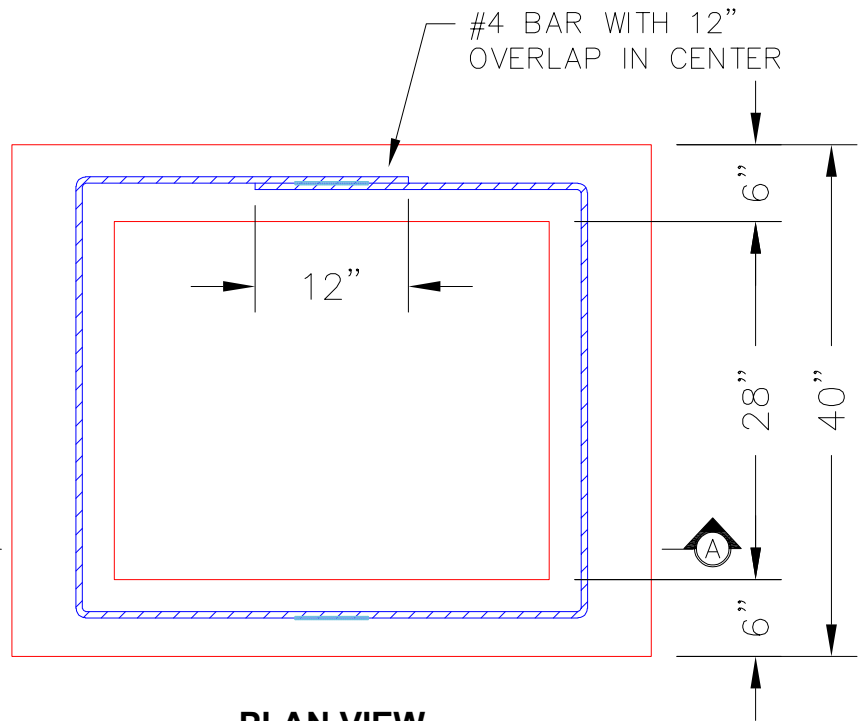
P13) 28" x 34" - GRADE RING - 3"
P12) 28" x 34" - GRADE RING - 3"
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13) 28" x 34" - Conseal CS-102 1.00"

Structure Notes:
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
- AS SHOWN BELOW

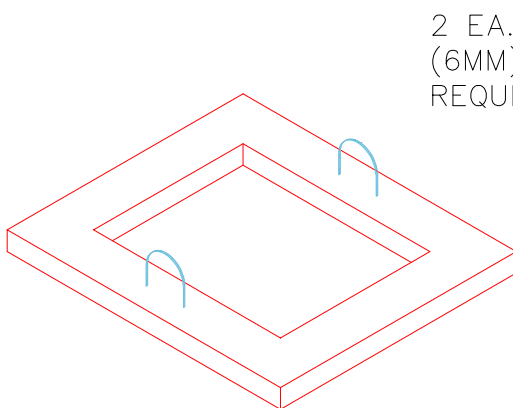
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Structure Total: 2906 lb



#4 BAR REINFORCING

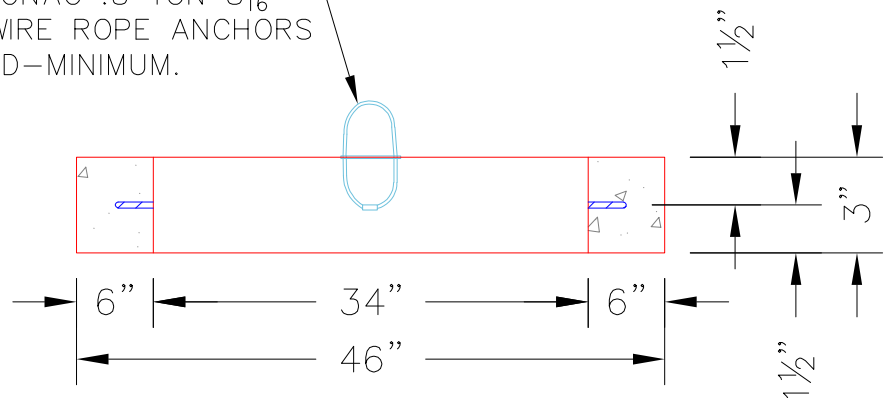


PLAN VIEW



ISOMETRIC VIEW

2 EA. CONAC .8 TON $8\frac{1}{16}$ "
(6MM) WIRE ROPE ANCHORS
REQUIRED—MINIMUM.



SECTION A-A

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 3"

Weight (Net): 224 lb
Volume (Net): 0.06cu.yd

Arcadia™ Hydrodynamic Separator Installation Guide

Concrete Manhole Installation

This installation guide is a reference for installing the Arcadia Water Quality unit into a precast concrete structure. These directions assume the manhole base and riser have been assembled, and that the top slab has not been set.

Note: Do not insert the inlet or outlet pipes until after the Arcadia internals have been installed. All pipes should sit flush inside the manhole. If pipes must be inserted in advance, the pipes should not protrude into the structure as they can interfere with installation of the Arcadia Internals.

Content

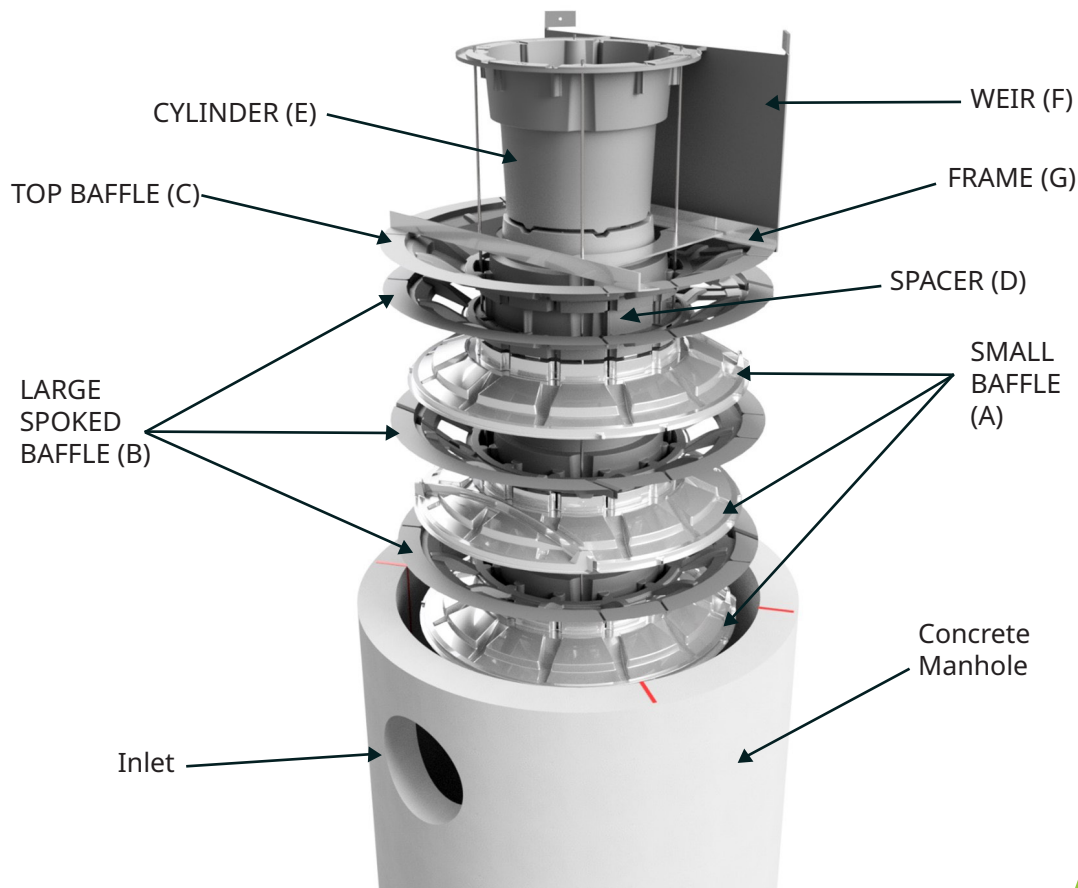
Section 1: Internal Components, Hardware & Tools

Section 2: Assembling Internal Components

Section 3: Mounting Brackets within Concrete Manhole Riser

Section 4: Transporting Assembled Arcadia Internals

Section 5: Installing Arcadia Internals into the Manhole – For Contactor/Jobsite



Section 1: Internal Components, Hardware and Tools



SMALL BAFFLE (A) Qty: 3



**LARGE SPOKED BAFFLE (B)
Qty: 3**



TOP BAFFLE (C) Qty: 1



SPACER (D) Qty: 1



CYLINDER (E) Qty: 1



WEIR (F) Qty: 1



FRAME (G) Qty: 1

Note: To separate baffles in shipping stack, pull from center of each baffle.

Hardware Provided by ADS



**Threaded Rod
(4 long and 4
short) Qty: 8**



**Washers
Qty: 12**



**Nuts
Qty: 12**



**Threaded
Coupling
Qty: 4**



Screws



**Bolts for frame
Assembly**



**Rod Caps
Qty: 4**



**Threadlocker
Capsules
Qty: 2**

Please set aside the following items that will later be delivered to the jobsite along with the assembled Arcadia Unit.

- Small Hardware package marked "Arcadia Installation, For Jobsite Contractor (Not for Precaster)".
- Conesal Roll(s).
- Copy of the Installation Guide

Other Tools Needed

- $\frac{9}{16}$ " (14.28 mm) or $\frac{3}{4}$ " (19.05 mm) Hand Wrench, depending on model size
- Phillips screwdriver or screw gun with Phillips bit
- 4 small hand clamps
- Pair of sawhorses

Section 2: Assembling Internal Components

1. Suggested procedure to facilitate assembly:
 - Utilize a set of sawhorses to support the initial assembly.
 - Set the spacing between the sawhorses (outside distance, see **figure 1**) according to the table below.

Arcadia Model	Spacing in (mm)
AR3	10 (250)
AR4	15 (375)
AR5	17 (425)
AR6	19 (475)
AR8	25 (625)

2. Place one SMALL BAFFLE (A) on the saw horses with the molded word "UP" readable and facing upward."

*Note: Throughout this procedure, as you stack up the baffles, make sure to align the molded word UP for each layer. For each baffle, UP should be readable and aligned with previous layers shown in **figure 2**.*

3. Rotate the baffle as needed to ensure the word UP is aligned with that of the previous baffle, then slide one LARGE SPOKED BAFFLE (B) down the threaded rods until it rests on the previous part, as shown in **figure 3**. Each part mates with the previous part in only one orientation.
4. Place another SMALL BAFFLE (A) on top of the previous part, as shown in **figure 4**. There should now be a total of three (3) baffles in place (two SMALL BAFFLES (A) and one LARGE SPOKED BAFFLE (B)).

Note: The long threaded rods will not reach up to the third baffle yet.

5. One at a time, grasp each of the long threaded rods and feed / pull up through the three baffles until the washer end is tight against the underside of the bottom baffle. Place a hand clamp on each long threaded rod against the top-most baffle to hold it in position, as shown in **figures 5 and 6**.
6. Carefully lower the entire assembly to floor level. If picking up by hand, this is most easily done by grasping two of the long threaded rods in between baffles.
7. Once on the floor, remove all 4 clamps and allow long threaded rods to rest on the floor.

Scan the QR Code
to watch the
Arcadia
installation video



Figure 1

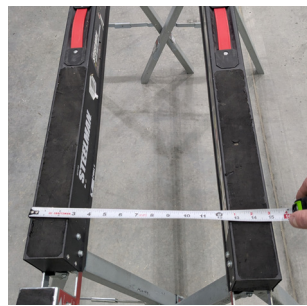


Figure 2



Figure 3



Figure 4



Figure 5

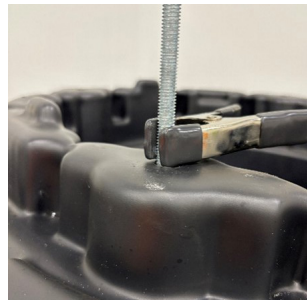


Figure 6



8. Repeat steps 2 & 3 once, then step 2 once more, such that two more LARGE SPOKED BAFFLE (B) and one more SMALL BAFFLE (A) have been added, for a total of six baffles, as shown in **figure 7**.
9. If SPACER (D) is supplied, slide it down the long threaded rods until it rests on the previous part. The SPACER (D) flange should be oriented down, as shown in **figure 8**.

Note: there is no SPACER (D) provided for the 3' (0.9 m) diameter unit (AR3) and the 6' (1.8 m) diameter unit (AR6). For these two sizes, skip this step.

10. Slide TOP BAFFLE (C) down the long threaded rods until it rests on the previous part, as shown in **figure 9**. Each part mates with the previous part in only one orientation. Check that the molded word UP, on the outer edge is readable, facing upward, and aligned with the word UP on the previous part before sliding down the rods into position.
11. Grasping each long threaded rod between baffles, push each rod up until the washer is once again snug at the bottom of the stack, as shown in **figure 10**. Hand snug a washer and nut to each long threaded rod with a wrench.

Note: Recommended to hold the nut with the wrench and turn the threaded rod to snug.

12. **Two people are needed for this step.** Assemble FRAME (G) by bolting the 4 metal pieces with provided short bolts, nuts & washers. As shown in **figure 11 and 12**.
13. Slide FRAME (G) onto the threaded rods until it rests flat on TOP BAFFLE (C). Orient FRAME (G) so that it aligns parallel to the flat portion of TOP BAFFLE (C), as shown in **figure 13**.

Note: Make sure the frame is installed upright, with the angled bends pointing upward, as shown in figure 13.

14. Add another washer and nut to each of the long threaded rods above FRAME (G). Do not screw the nut all the way down. Then, attach a threaded coupling at the top end of each long threaded rod. Screw it down until the top of the coupling is flush with the top of the threaded rod. Leave the nut just below the coupling, as shown in **figure 14**. (This is to facilitate step 17.)

Figure 7



Figure 8

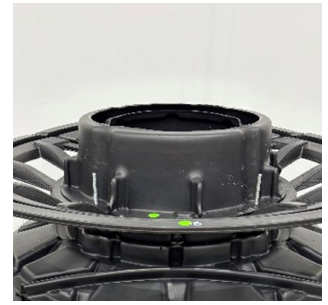


Figure 9



Figure 10



Figure 11



Figure 12

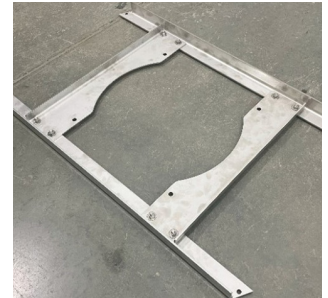


Figure 13

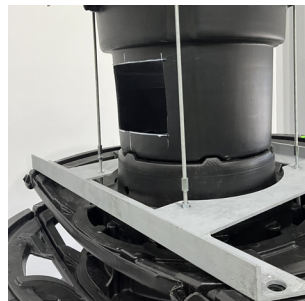


Figure 14



15. Place a washer and nut onto the end of the four short threaded rods, screwing about 3" (75 mm) down. Orient CYLINDER (E) with the flange facing up, feed the rods from the top through the holes in the CYLINDER (E) until the nuts rest on top of the CYLINDER, as shown in **figure 15**.
16. Place CYLINDER (E) assembly on top of TOP BAFFLE (C). Each part mates with the previous part in only one orientation. Check that flat side of the flange of CYLINDER (E) is aligned with the flat side of the TOP BAFFLE (C) as shown in **figure 16**. Attach the bottom end of the 4 short threaded rods to each threaded coupling at the top of the 4 long threaded rods. Hand tighten snug by twisting the long and short threaded rods in opposite directions.
17. Secure CYLINDER (E) onto each of the 4 short threaded rods with a washer and nut at the top. Hand snug with wrench.
18. Slide WEIR (F) into top slot with the curved edge down. Ensure WEIR (F) is centered in the slot. To easily insert WEIR (F), push one end home and secure lower corner of WEIR (F) to TOP BAFFLE (C) with a screw, as shown in **figures 17 and 18**; then push the other end home and secure with screw. For the 8' (2.4 m) diameter unit (AR8), add additional screws into the slot and through the bottom of the weir at approximately the middle, 1/4, and 3/4 positions.
19. Screw down and hand snug the nuts to the steel FRAME (G) with a wrench. Also hand snug the nuts to the top of the CYLINDER (E), and to the top of the TOP BAFFLE (C) if they have loosened. Add a drop of Threadlocker to the rod threads near each nut before final tightening.
20. Secure the top of WEIR (F) with three screws into CYLINDER (E), as shown in **figure 19**.
21. Attach Rod Caps to the top of each threaded rod, on top of the unit.
22. The finished assembly should appear as shown in **figure 20**.

Figure 15



Figure 16



Figure 17



Figure 18



Figure 19



Figure 20



Section 3: Mounting Brackets within Concrete Manhole Riser

Materials provided by ADS

- Mounting Template (Qty: 1)
- Brackets (Qty: 4)
- ¼" (6.35 mm) Diameter 20 thread size,
3 ¼" (82.55 mm) wedge anchors (Qty: 4)

Other Tools Needed

- Drill
 - ¼" (6.35mm) Masonry drill bit
 - Hammer
 - 7/16" (11.11 mm) socket or wrench
 - Masking Tape
 - Rigging
1. Use one of the 3 methods below to locate and mark the elevation and center line for each of the 4 brackets.
 - a. Mounting Template Method:
 1. Position top of template to match the outlet pipe invert elevation.
 2. Align centerline of template with the center of the outlet pipe hole.
 3. Spread template along inner circumference of the manhole wall, maintaining level. Affix with tape as you proceed. Check level as you proceed.
 4. Mark bracket elevations and centerlines at bottom of template.
 5. Remove template.
 - b. Angular Dimensions Method:
 1. From the outlet invert, measure depth A (Table 1) and around B° and C° in each direction to locate the top of each bracket. Mark top of bracket.
 - c. Linear Dimensions Method:
 1. From the outlet invert, measure depth A (Table 2) and around the inside arc B" and C" in each direction to locate the top of each bracket. Mark top of bracket. Crosscheck outlet invert elevations from approved job specific drawings.

Figure 22

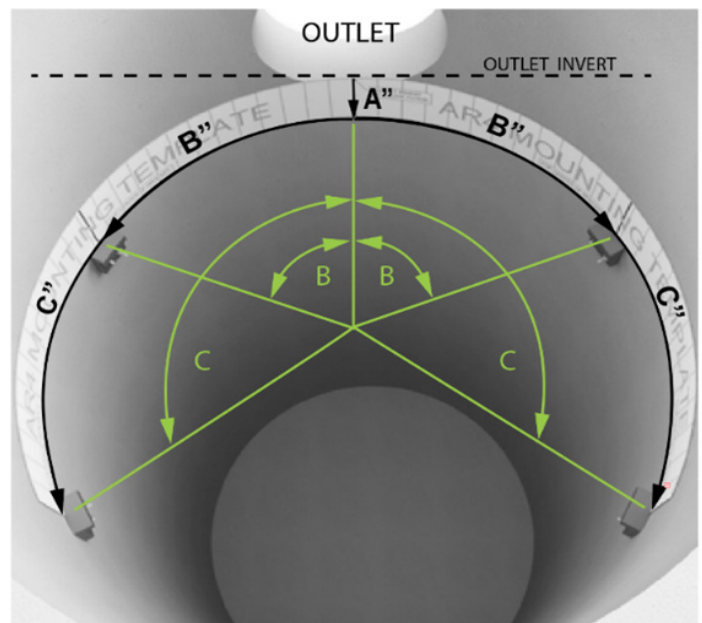


Table 1: Angular Measurements

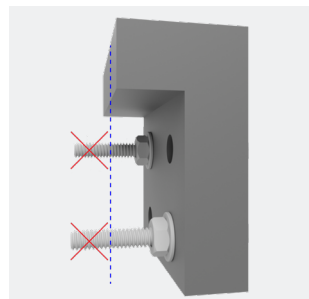
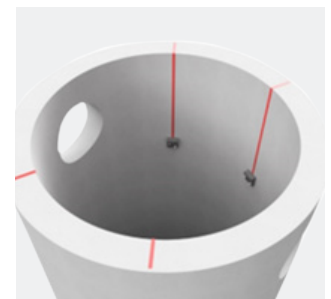
Arcadia Model	A. Depth from Outlet Invert in (mm)	B. Angle from Outlet Center	C. Angle from Outlet Center
AR3	4 1/2 (114.3)	65°	115°
AR4	5 1/2 (139.7)	60°	120°
AR5	6 (150)	65°	115°
AR6	6 1/2 (165.1)	60°	120°
AR8	8 (200)	60°	120°

Table 2: Linear Measurements

Arcadia Model	A. Depth from Outlet Invert in (mm)	B. Measurement from Outlet Center in (mm)	C. Measurement from Outlet Center in (mm)
AR3	4 1/2 (114.3)	20 3/8 (517.5)	36 1/8 (917.6)
AR4	5 1/2 (139.7)	25 1/8 (638.1)	50 1/4 (1276.3)
AR5	6 (150)	34 (850)	60 1/8 (1527.2)
AR6	6 1/2 (165.1)	37 3/4 (958.8)	75 1/2 (1917.7)
AR8	8 (200)	50 1/4 (1276.3)	100 1/2 (2552.7)

- Hold bracket in position in manhole at locations indicated. Mark anchor holes for each bracket as shown in **figure 23**.
- Drill two 1/4" (6.35 mm) holes per bracket, 2 1/2" (63.5 mm) deep. Diagonal holes are recommended. Extra holes provided if needed as shown in **figure 24**.
- Attach 4 brackets to manhole at positions marked, aligned with top of bracket. Lightly hammer the anchors in place. Tighten the locking nuts to firmly secure brackets to the concrete. Trim any excess anchor that extends beyond the bracket edge as shown in **figure 25**.
- Extend center lines up the manhole wall to the top. Also extend lines across top edge. These center lines will be used by installers at the jobsite to align the unit during installation as shown in **figure 26**.

Note: These center lines are part of the bracket installation and should be made with a suitable marking device that can be easily seen, such as a level and marker, or chalk line.

Figure 23**Figure 24****Figure 25****Figure 26**

Section 4: Transporting Assembled Arcadia Internals

Placing assembled Arcadia inside concrete manhole riser section; Most common.

1. Choosing a segment of precast concrete manhole riser or base.
 - For transport, choose a riser section that does not contain the mounting brackets, with the following minimum riser depths. This riser section will serve as shipping containment for the internals.
 - The Arcadia internals will be permanently installed onto the mounting brackets at the jobsite. See Section 5.
2. Rigging Arcadia Internals for lifting.
 - Use the stainless-steel frame arms as pick points for straps, chains or other qualified rigging. It is recommended to attach at diagonally opposite arms.
 - Appropriate rigging examples shown in **figures 27 and 28**.
3. Place Arcadia Internals within the riser segment using hoisting equipment.
4. Secure with strapping.
5. Along with the internals, be sure to also deliver the 3 additional items listed in the note below and seen in **figures 29 and 30**.

Minimum Depth Transport Riser Section ft (m)	Arcadia Model
3 (0.9)	AR3
4 (1.2)	AR4, AR5, AR6
5 (1.5)	AR8
6 (1.8)	AR10

Figure 27



Figure 28



Figure 29



Figure 30



Note: Please deliver the following additional items to the jobsite along with the assembled Arcadia unit.

- Small hardware package marked "Arcadia Installation, For Jobsite Contractor (NOT FOR PRECASTER)"
- Con Seal roll(s)
- Copy of the Installation Guide

Transporting without a concrete riser?
Contact ADS for guidance.

Table 4: Arcadia Separator Internals Weight Once Assembled

Arcadia Model	AR3	AR4	AR5	AR6	AR8	AR10
lbs (kg)	82 (37.1)	165 (74.8)	252 (411.3)	356 (161.4)	882 (400)	1306 (592.3)

Section 5: Installing Arcadia Internals into the Manhole

These directions assume the manhole base and riser have not been assembled, and that the top slab has not been set.

Note: Do not insert the inlet or outlet pipes until after the Arcadia internals have been installed. If pipes must be inserted in advance, the pipes should not protrude into the structure as they can interfere with installation of the Arcadia Internals.

Materials provided by ADS

- Arcadia Internals (Qty: 1)
- ¼" (6.35 mm) Diameter 20 thread count, 3 ¼" (82.55 mm) wedge anchors (Qty: 2)
- ⅝" (7.93 mm) Diameter 1 ½" (38.1 mm) hex head lag screws and washers (Qty: 4)
- ¼" (6.35 mm) high speed drill bit for drilling into steel brackets (only for AR8 model)
- Conseal Roll(s)

Other Tools Needed

- Drill
 - ¼" (6.35 mm) Masonry Drill Bit
 - ⅜" (4.76 mm) Multi-Purpose Drill Bit
 - Hammer
 - ⅞" (11.11 mm) socket or wrench
 - Rigging
1. Before assembling the manhole base and riser(s), remove the assembled Arcadia unit from the precast segment that was used for protection during transport, if applicable. Rig the Arcadia internals for overhead lifting. Use the stainless-steel frame arms as pick points for straps, chains or other qualified rigging. It is recommended to attach diagonally to opposite arms. See **figures 31 and 32**. Set the Arcadia unit on level ground.
 2. Locate the concrete riser section with Arcadia Mounting Brackets installed.
 3. Check for bracket centerline markings inside and on top edge of the manhole. If no markings are present, find and extend the centerlines of each bracket along the inside of the riser all the way to the riser top edge as shown. These centerlines will be used to align the unit during installation. See **figure 33**.
 4. Rig Arcadia internals for overhead lifting. Use the stainless-steel frame arms as pick points for straps, chains or other qualified rigging. It is recommended to attach diagonally to opposite arms. See **figures 31 and 32**.

Figure 31



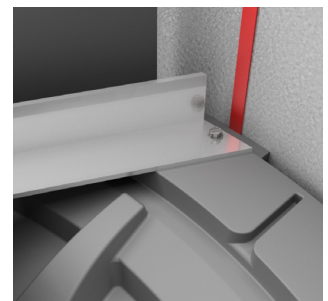
Figure 32



Figure 33



Figure 34



- a. Keep the WEIR (F) centered above the outlet pipe opening. See **figure 35**.
- b. Keep frame arms aligned with bracket centerlines during the entire lowering process. Failure to maintain alignment could result in damage to the unit. See **figure 36**.

5. Lift Arcadia internals at slow speed. Before lowering the unit into the manhole, check for proper alignment with the mounting brackets inside the manhole. Orientation is important throughout the entire installation process.
6. Once aligned, slowly lower Arcadia internals into manhole. Utilize a spotter to guide the alignment of the unit with tagline. Proceed until the stainless-steel frame arms are resting on the pre-installed mounting brackets within the manhole.
7. Affix Arcadia internals with provided lag screws and washers through the holes in the ends of the stainless-steel frame arms, through the top plastic of the unit and into the plastic brackets beneath. First pre-drill each with a 3/16" (4.76 mm) drill bit, or for AR8 use the provided 1/4" (6.35 mm) drill bit into steel brackets below. Use 7/16" (11.11 mm) socket to drive in lag screws until snug.
8. Affix WEIR (F) edges to manhole walls using concrete anchors. See **figures 37 and 38**.
 - a. Bend WEIR (F) installation tabs to the manhole wall as shown in **figure 37**.
 - b. Mark holes for anchors, one hole per tab.
 - c. Drill a 1/4" (6.35 mm) hole 2 1/2" (63.5 mm) deep at each marked hole.
 - d. Bend WEIR (F) installation tabs to manhole wall.
 - e. Insert anchors and lightly hammer in place to secure WEIR (F) to manhole wall.
 - f. Tighten the locking nuts to firmly secure brackets to the manhole wall as shown in **figure 38**.
9. Finally, seal WEIR (F) & TOP BAFFLE (C) edges to manhole wall using conseal to fill any gaps. See **figure 35**.

Figure 35

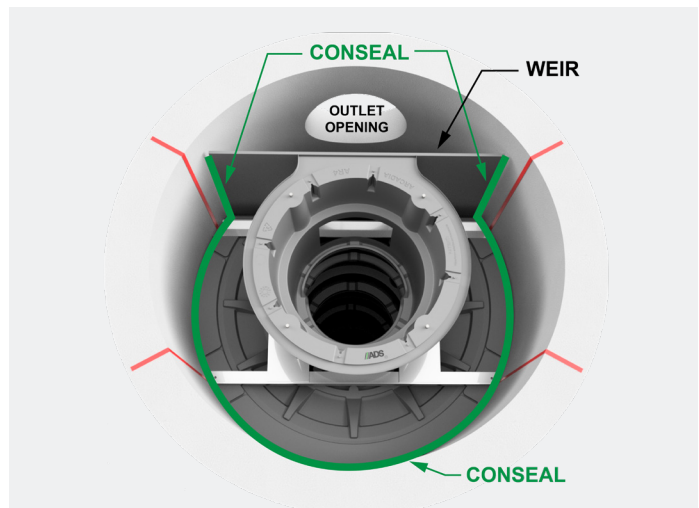


Figure 36

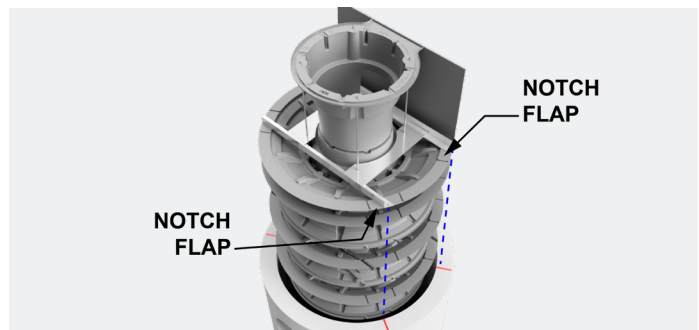


Figure 37

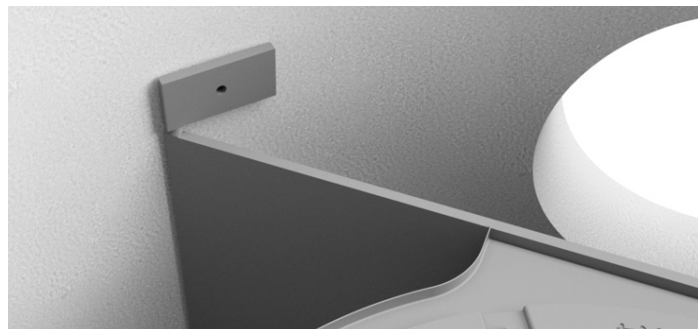
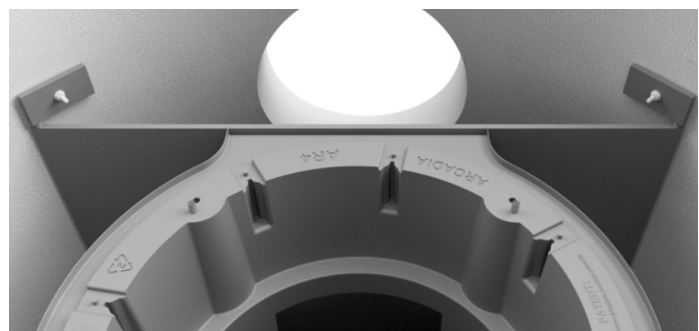
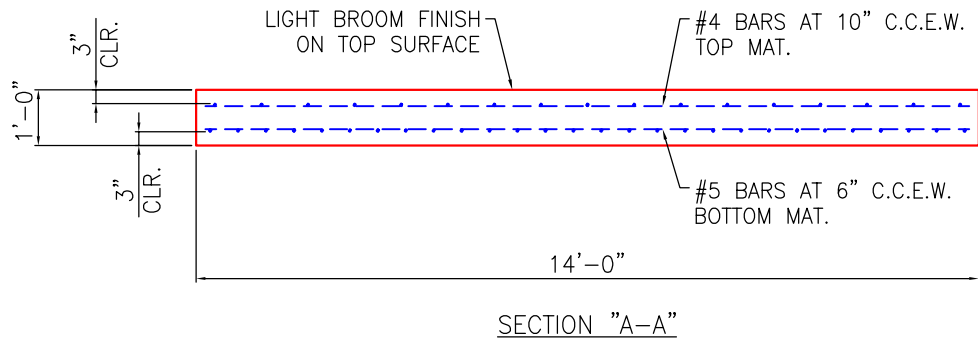
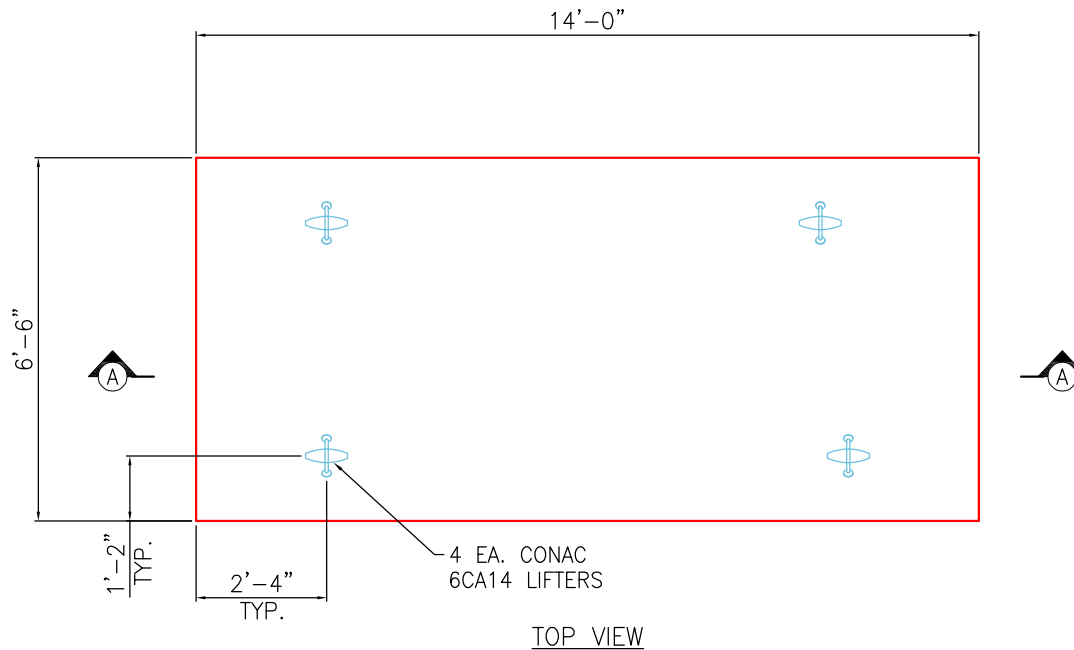


Figure 38





NOTES:

1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
5. WEIGHT = 13,195 LBS.

#4 BAR CUT LIST
 17 EA. @ 164"
 8 EA. @ 64"

#5 BAR CUT LIST
 13 EA. @ 164"
 28 EA. @ 64"

PRODUCTION WORK ORDER

PRODUCT I.D.: CTS

DESCRIPTION: CUSTOM TOP SLAB 14'L x 6.5'W



QUALITY CONTROL CHECKLIST

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

PRODUCT VIEW: RIGHT SIDE UP

CUSTOMER: JOHNNY HUNTER CONSTRUCTION

PLANT: BEAVER DAM, KY.

PROJECT: MOUNTAIN GOAT TRAIL

WEIGHT: 13,195 LBS

STRUCTURE: TUNNEL COVER TOP SLAB

TOP SECTION JOINT: FLAT

ORDER NO: 26-1771P2

BASE SECTION JOINT: FLAT

CHECK: B. SMITH

DRAWING: J. HORSLEY

QC CHECK INITIALS:

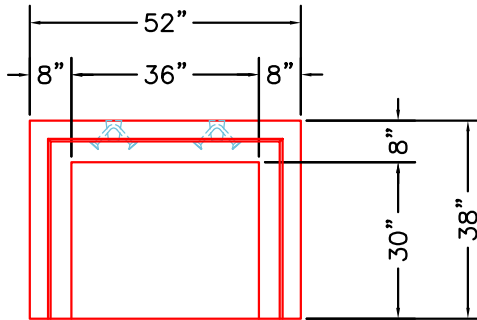
DATE: 08/05/26

SCALE: NTS

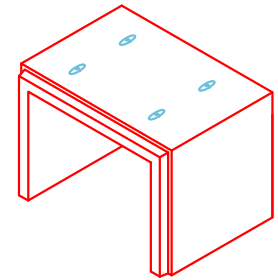
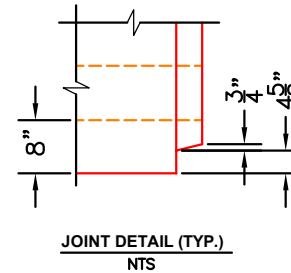
PG. 1 of 1

GENERAL NOTES

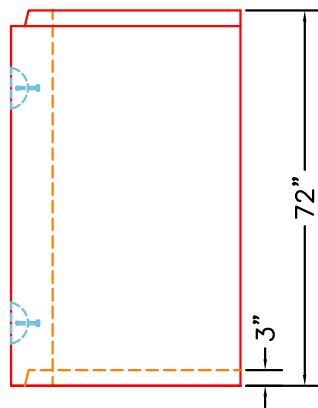
1. MANUFACTURED TO ASTM C1577 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS.
3. LOAD REQUIREMENTS = KY-HL93 (KY TABLE1).
4. COVER DEPTH = 4' TO 6'.
5. REINFORCING: PER ASTM C1577 (GRADE 60). SEE ATTACHED STAMPED DESIGN CALCULATIONS.
6. BOX CULVERT TO BE SEALED WITH CONCRETE SEALANTS, INC. CS-102 ROLL BUTYL MASTIC. (SUPPLIED BY ICAST).
7. EXTERIOR JOINT WRAP TO BE 12" WIDE CS212.
8. WEIGHT: 36" X 30" X 69" LONG SECTION = 5,188 LBS.



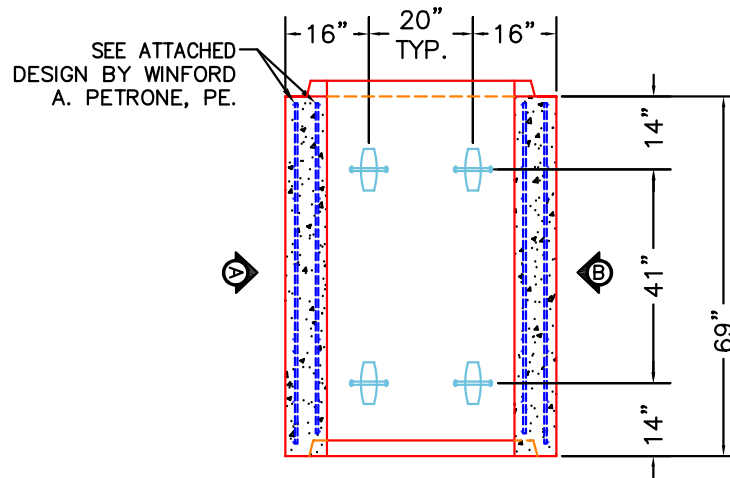
END VIEW



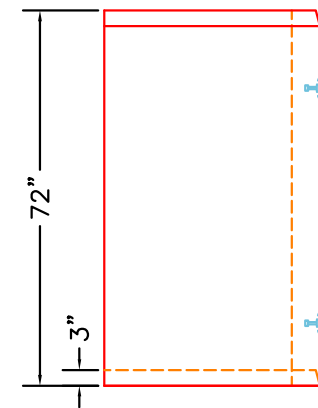
**COMPONENT
ISOMETRIC VIEW**



VIEW A
UPRIGHT IN MOLD



PLAN VIEW
UPRIGHT IN MOLD



VIEW B
UPRIGHT IN MOLD

PRODUCTION WORK ORDER



QUALITY CONTROL CHECKLIST

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

PRODUCT I.D.: CBS

PRODUCT VIEW: RIGHT SIDE UP

PLANT: BEAVER DAM, KY.

WEIGHT: 5,188 LBS.

TOP JOINT: TONGUE

BOTTOM JOINT: GROOVE

QC CHECK INITIALS:

DESCRIPTION: 36" X 30" X 69" LONG 3-SIDED BOX CULVERT

CUSTOMER: CLEARY CONSTRUCTION INC

PROJECT: UK BP9 SITE THERMAL AND ELECTRIC UTILITIES

STRUCTURE: 36" X 30" X 69" BOX CULVERT (P2)

SALES ORDER/QUOTE NO: 25-2504

PC: C. GOFF

DRAWING: S. FELLETER

DATE: 07/31/26

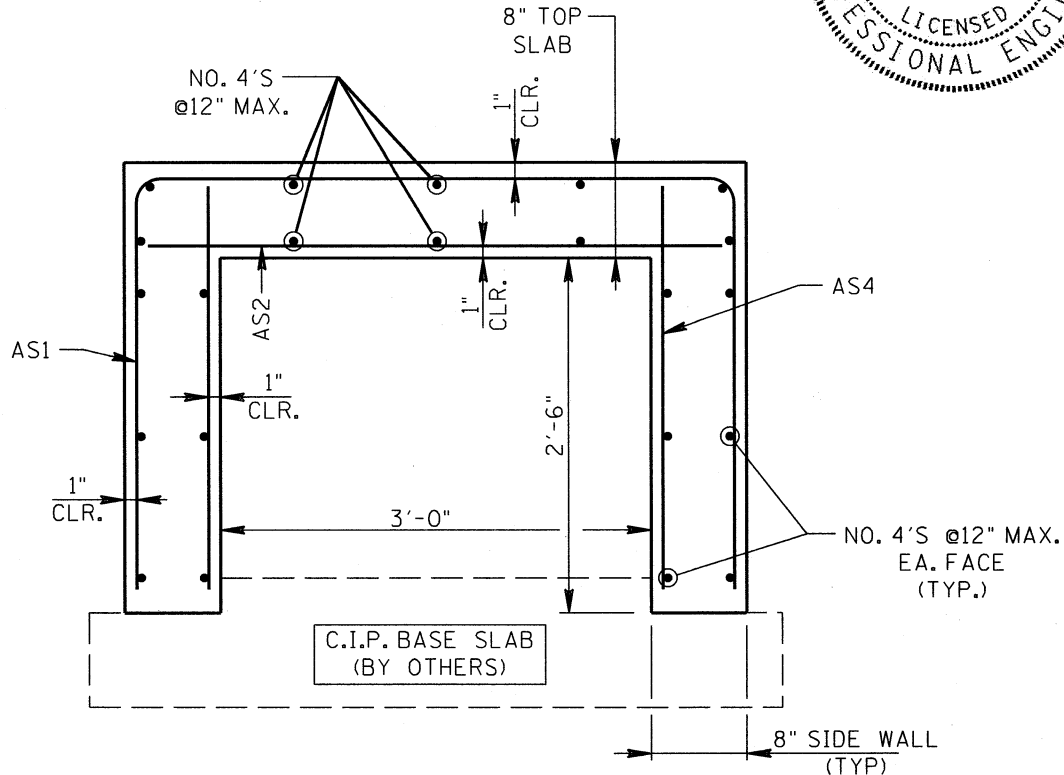
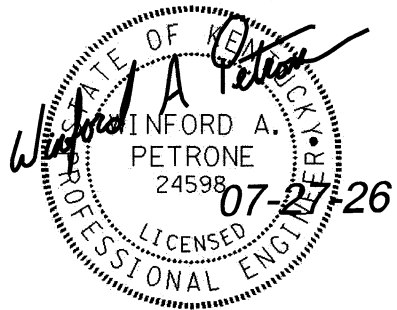
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PG. 1 of 1

58/60

NOTE: SEE "PRECAST DESIGN SUBMITTALS, CONCRETE COMPONENTS" SHEET FOR SUMMARY OF BUILDING AND DESIGN CODES, MATERIALS REQUIREMENTS, AND DESIGN LOADS.

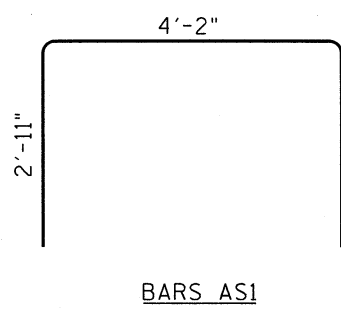
NOTE: SEE ICAST WORKING DRAWINGS FOR ADDITIONAL INFORMATION AND LOCATION OF EACH COMPONENT.



PRECAST TUNNEL SECTION
3'-0"X2'-6" STEAM TUNNEL RUN #2
NON-BEND UNITS

NOTE: CLEARANCE BETWEEN CUT-OFF ENDS OF BARS AND OUTSIDE FACES OF CONCRETE=2".

REINFORCING STEEL		
LOCATION	REQUIRED	COMMENTS
AS1	NO. 4'S@10"	BEND AS SHOWN
AS2	NO. 4'S@10"	EXTEND TO EXTER. FACES
AS3	NOT USED	NOT USED
AS4	NO. 4'S@12"	



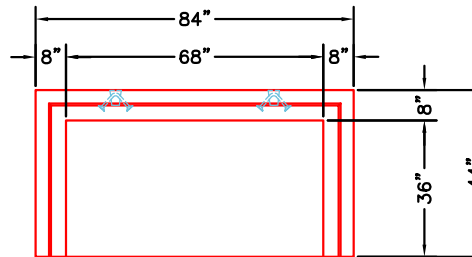
AS1, AS2, AND AS4 REINFORCING BARS
Fy-min=60 K.S.I.

THIS SECTION TO BE USED FOR ALL
RUN #2: NON-ANGLED UNITS,
RECTANGULAR IN PLAN VIEW.

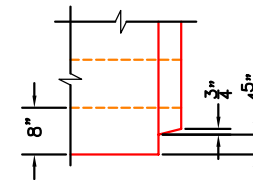
SK-4

GENERAL NOTES

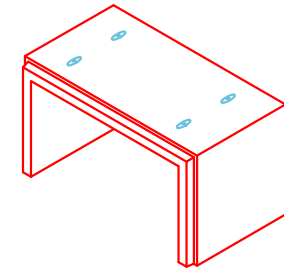
1. MANUFACTURED TO ASTM C1577 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS
3. .LOAD REQUIREMENTS = KY-HL93 (KY TABLE1).
4. COVER DEPTH = 4' TO 6'.
5. REINFORCEMENT PER ATTACHED DESIGN BY WINFORD A. PETRONE, PE
6. BOX CULVERT TO BE SEALED WITH CONCRETE SEALANTS, INC. CS-102 ROLL BUTYL MASTIC. (SUPPLIED BY ICAST).
7. EXTERIOR JOINT WRAP TO BE 12" WIDE CS212.
8. WEIGHT: 68" X 36" X 69" LONG SECTION = 7,226 LBS.



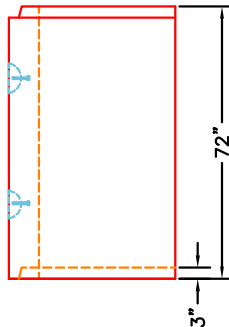
END VIEW



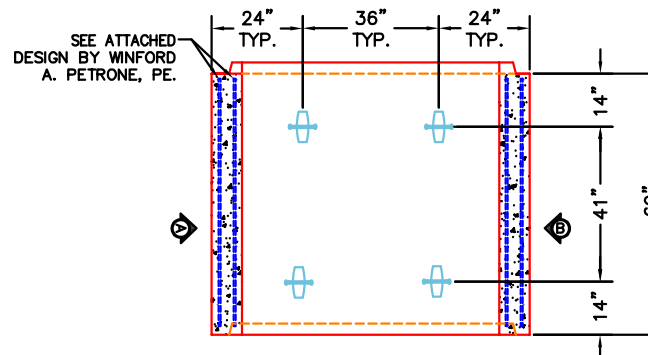
JOINT DETAIL (TYP.)
NTS



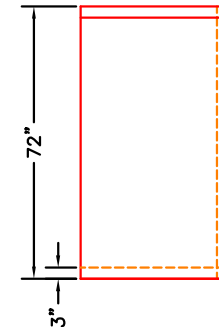
COMPONENT
ISOMETRIC VIEW



VIEW A
UPRIGHT IN MOLD



PLAN VIEW
UPRIGHT IN MOLD



VIEW B
UPRIGHT IN MOLD

4 EA. CONAC 5CA14
LIFTING ANCHORS

PRODUCTION WORK ORDER

PRODUCT I.D.: CBS

DESCRIPTION: 68" X 36" X 69" LONG 3-SIDED BOX CULVERT



QUALITY CONTROL CHECKLIST

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

PRODUCT VIEW: RIGHT SIDE UP

CUSTOMER: CLEARY CONSTRUCTION INC

PLANT: BEAVER DAM, KY.

PROJECT: UK BP9 SITE THERMAL AND ELECTRIC UTILITIES

WEIGHT: 7,226 LBS.

STRUCTURE: 68" X 36" X 69" BOX CULVERT (P2)

TOP JOINT: TONGUE

SALES ORDER/QUOTE NO: 25-2504

BOTTOM JOINT: GROOVE

PC: C. GOFF

DRAWING: S. FELLETER

QC CHECK INITIALS:

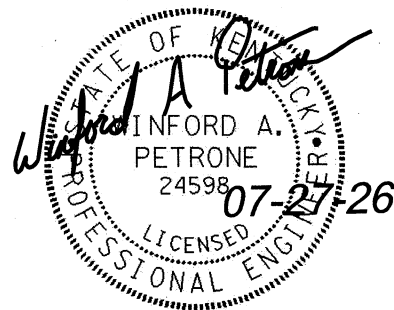
DATE: 07/31/26

SCALE: NTS

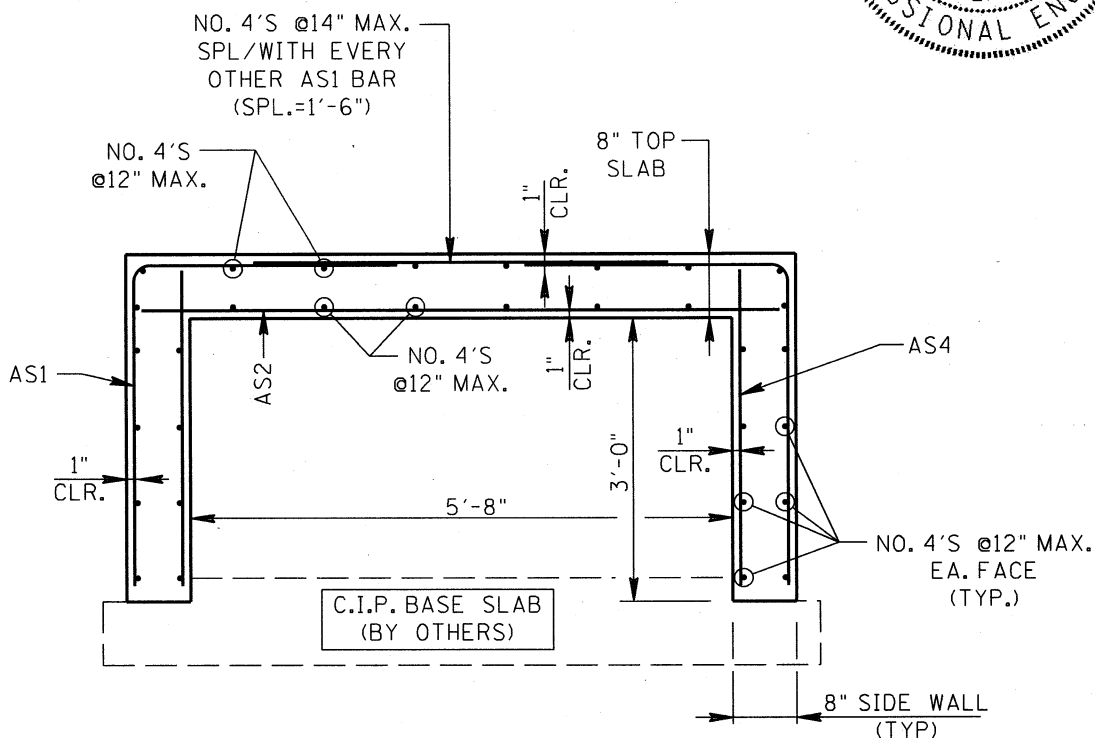
PG. 1 of 1

NOTE: SEE "PRECAST DESIGN SUBMITTALS, CONCRETE COMPONENTS" SHEET FOR SUMMARY OF BUILDING AND DESIGN CODES, MATERIALS REQUIREMENTS, AND DESIGN LOADS.

NOTE: SEE ICAST WORKING DRAWINGS FOR ADDITIONAL INFORMATION AND LOCATION OF EACH COMPONENT.



55/60

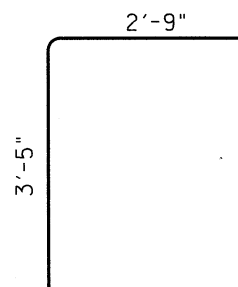


PRECAST TUNNEL SECTION

5'-8"X3'-0" STEAM TUNNEL RUN #1
NON-WEDGED UNITS

NOTE: CLEARANCE BETWEEN CUT-OFF
ENDS OF BARS AND OUTSIDE
FACES OF CONCRETE=2".

REINFORCING STEEL		
LOCATION	REQUIRED	COMMENTS
AS1	NO. 4'S@7"	BEND AS SHOWN
AS2	NO. 4'S@7"	EXTEND TO EXTER. FACES
AS3	NOT USED	NOT USED
AS4	NO. 4'S@12"	



BARS AS1

AS1, AS2, AND AS4 REINFORCING BARS

Fy-min=60 K.S.I.

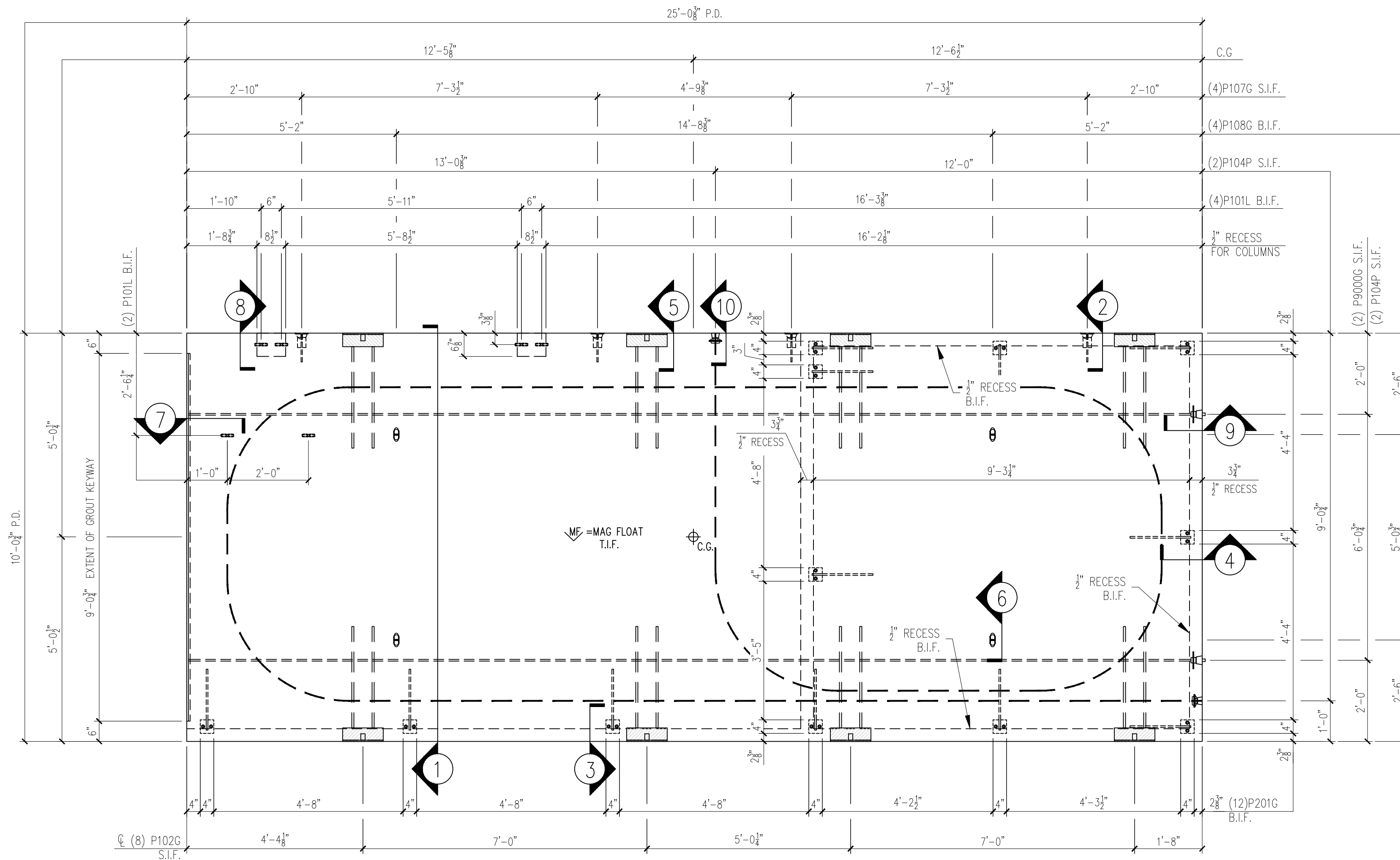
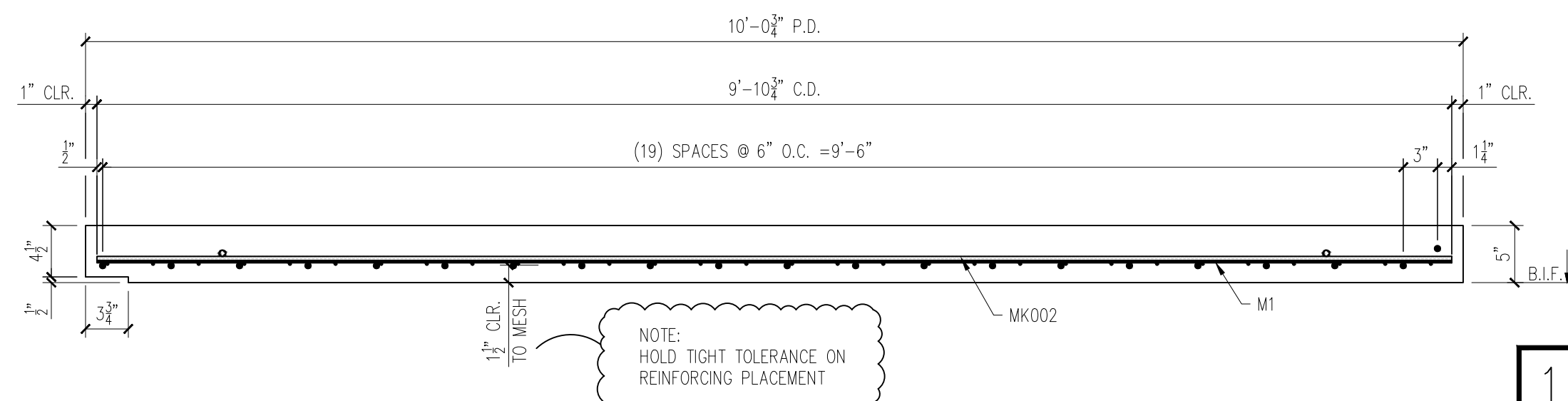
THIS SECTION TO BE USED FOR ALL
RUN #1: NON-WEDGED UNITS,
RECTANGULAR IN PLAN VIEW.

SK-1

PRECAST STEAM TUNNELS: RUN NO.1, TYPICAL UNIT SECTION

UK BP9 SITE THERMAL AND ELECTRIC: 5'-8"X3'-0" STEAM TUNNEL RUN #1

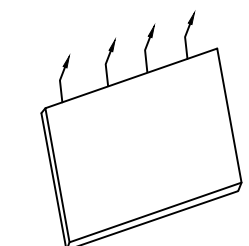
25-3470
CCHS Precast Buildings
Right Hand Dugout
ID - CVBS
Floor - FP-02
Weight - 15,635
1 Required



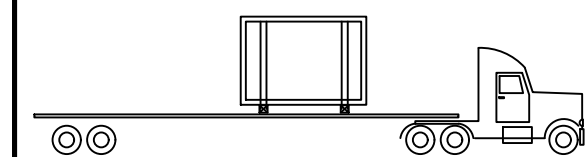
FLOOR FORM VIEW
SCALE: $\frac{1}{2}" = 1'-0"$

BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY.
P201G	4" x 4" x $\frac{3}{8}$ " W/ (2) $\frac{3}{8}$ " ϕ x $1\frac{1}{2}$ " H.A.S. W/1"-4" BENT REBAR (GALVANIZED)	12
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	4
P107G	4 TON RL-4 TECH ERECTION ANCHOR (79548SP) (GALVANIZED)	4
P102G	ESW P-4 LIFTING ANGLE (GALV.)	8
P9000G	1" ϕ E.M.T. TUBE 24'-10 $\frac{1}{2}$ " LONG (GALV.)	2
P108G	4 TON RL-24 PLATE ANCHOR (79128) (GALVANIZED)	4
P101L	$\frac{3}{2}$ " ϕ X $1\frac{1}{2}$ " F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	6

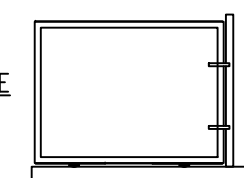
HANDLING INSTRUCTIONS



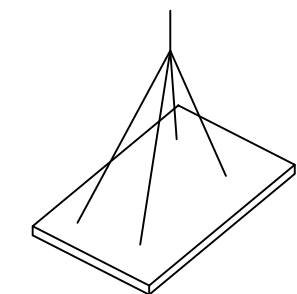
STRIPPING-TILT TABLE



SHIPPING



YARD STORAGE



ERECTION

CONCRETE INSTRUCTIONS	
CONCRETE @ RELEASE:	2,500 P.S.I.
CONCRETE @ 28 DAYS:	5,000 P.S.I.
POST-TENSION @	3,500 P.S.I.

CONCRETE MIXES	
CONCRETE - GRAY	VOLUME = 3.85 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 3.85 C.Y.

FINISHING INSTRUCTIONS

MF = MAG FLOAT FINISH
FF = FORM FINISH

L = 25'-0 3/8"	SQ.FT.(T.I.F.) = 250.11
W = 10'-0 3/4"	SQ.FT.(T.I.F.) = -
D = 5"	SQ.FT.(T.I.F.) = -

CONTROL NUMBERS:

<u>PRODUCT</u>	<u>SALES ORDER NUMBER</u>
BUILDING	-
<u>SHEET NUMBER</u>	<u>NUMBER REQUIRED</u>
1 OF 2	1

MESSAGE CENTER

1. REFER TO DETAILS FOR
REINFORCEMENT/CABLE PLACEMENT

2. SHOP TICKET SHOWS INSIDE
SURFACE OF FLOOR CAST FACE DOWN

CHECKED BY:

DATE:

APPROVED BY:

DATE:

EASI-SET® WORLDWIDE
5119 Cattlett Rd. • Midland, VA 22728 • info@EasiSet.com
www.EasiSet.com • 800-547-4045 • Fax 540-439-2541

DATE	DESCRIPTION	INI.	REV
-		-	Δ
-		-	Δ
-		-	Δ
-		-	Δ
-		-	Δ

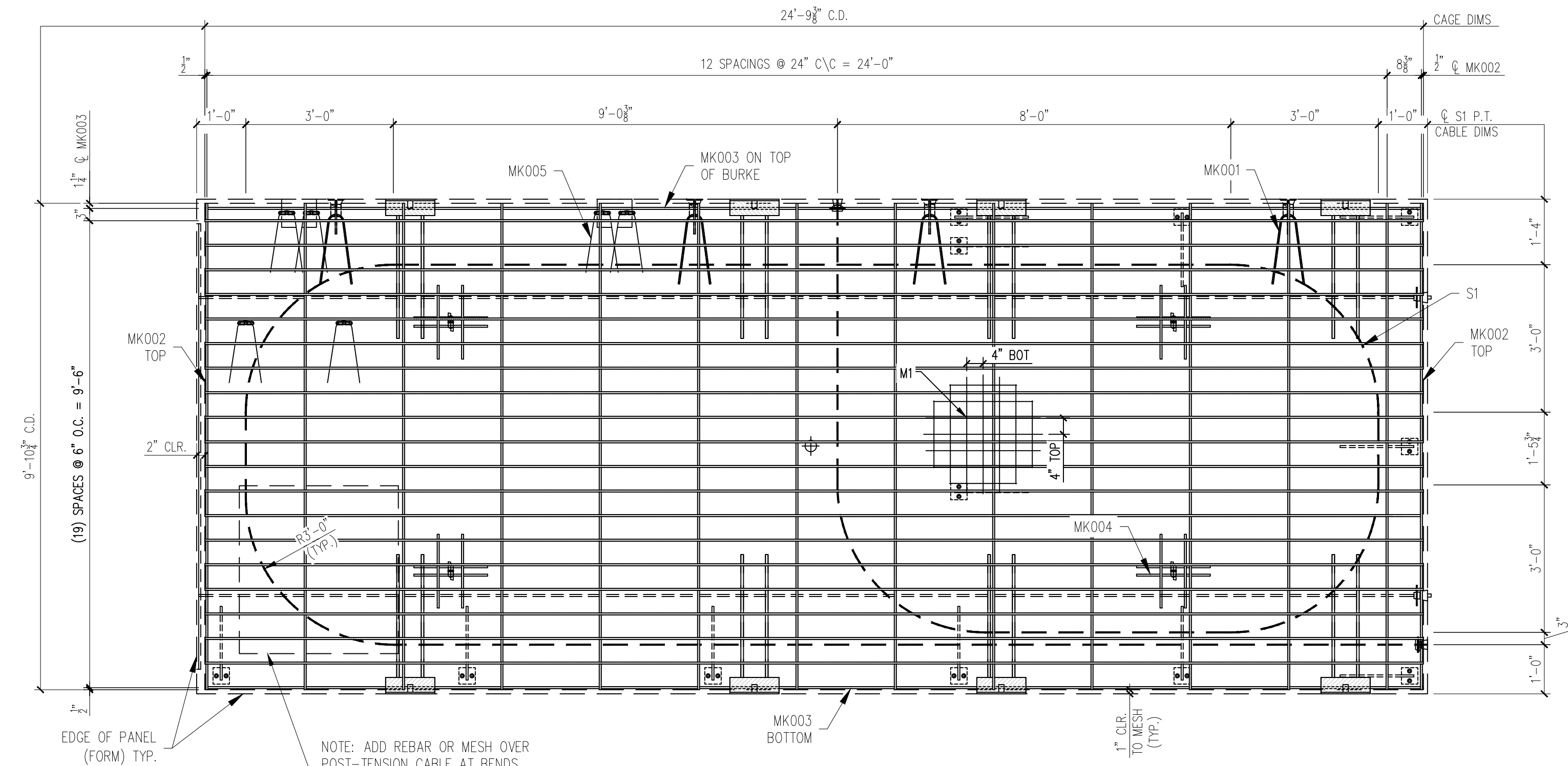
PROJECT: 50'x10'x9'-10" SOFTBALL DUGOUT
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE
NTS

DRAWN BY
FTI

CHECK BY
WCR

SSUE DATE
07.22.26PIECE MARK
ED 03



FLOOR REINFORCING VIEW
SCALE: 1/2" = 1'-0"

SHOP NOTE:
DIMENSIONS PROVIDED ARE PULLED FROM EDGE OF
CAGE TO CENTERLINE OF REBAR AND TO CENTER
OF REBAR TO CENTER OF REBAR (EXCEPT PT
CABLE LOCATION)

REINFORCING SCHEDULE		
MARK #	DESCRIPTION	QTY
MK001	#4 X 4'-0"	4
MK002	#3 X 9'-10 3/4"	14
MK003	#3 X 24'-9 1/4"	21
MK004	#4 X 1'-6"	16
MK005	#3 X 3'-0"	6
S1	1/2" Ø X 78'-8" LONG P.T. CABLE	1
MESH SCHEDULE		
MARK #	DESCRIPTION	QTY
M1	W4XW4 4"x4" WWF 24'-9 3/8" X 9'-10 3/4"	1

25-3470
CCHS Precast Buildings
Right Hand Dugout
ID - CVBS
Floor - FP-02
Weight - 15,635
1 Required

- NOTES:
1. TRIM PLASTIC SHEATH AT BOTH ENDS OF THE PT CABLE TO FIT BETWEEN U-5 ANCHOR PLATES
 2. CONSTRUCT REBAR-MESH CAGE ACCORDING TO THE DRAWINGS. SECURE LIFTING APPARATUS TO FORM AND ADD PROPER REINFORCEMENT. PLACE REBAR-MESH CAGE AND HAIRPINS AT INSERTS WITH PROPER CLEARANCES (PER DRAWINGS).
 3. PLACE AND SECURE PT CABLE AS INDICATED ON THE DRAWINGS (REINFORCING VIEW)

PRODUCT	SALES ORDER NUMBER
BUILDING	-
SHEET NUMBER	NUMBER REQUIRED
2 OF 2	1

REV	INI.	DESCRIPTION	DATE
1	-		-
2	-		-
3	-		-
4	-		-
5	-		-

PROJECT: 50'x10'x9'-10" SOFTBALL DUGOUT
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE	NTS
DRAWN BY	FTL
CHECK BY	WCR
ISSUE DATE	07.22.26
PIECE MARK	FP-02

2

3

4

5

6

MESSAGE CENTER

1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT

2. SUPPLEMENTAL STEEL FOR STRIPPING AND HANDLING MAY BE ADDED AS REQUIRED.

7

8

9

10

PT Check for Floor Panels FP-01 & 02 (PCI MNL - 1)

Material Data

(7) Wire lo-lax Strand - ASTM A416

Φ_{ps} 0.500 in,

A= 0.153 in²

E= 28500000 psi

fpu= 270 ksi

Strand Length **912 in**

Assume (Info supplied by strand manufacturer)

k= 0.0007 Wobble Friction Coeff.

μ = 0.05 Curvature friction coeff. (Initial tension of 3,000 lbs)

Strand is to be stressed 70% of ultimate

= 28917 lbs

Adjustments to tensioning

1) Dead end anchor wedge seating loss

~ Expected to be 1/8 in

2) Live end anchor wedge seating loss

~ Expected to be 1/8 in, recommend over pull 1/8"

3) Elastic Shortening

Neglect for this pnl

4) Friction Loss

Additional force to overcome frictional forces between strand and sheathing

Tensioning Computations

Basic Elongation =
$$\frac{(\text{Force required beyond initial tension}) (\text{Length of strand between anchorages})}{(\text{Area of strand}) (\text{Modulus of Elasticity})}$$

= 5.42 in

Adjustments

a) Dead end anchor wedge seating: Add 1/8" to elong. No force adjustment req'd

Add 1/8 in

b) Live end seating: over pull by 1/8"

1/8 in

Force adjustment t = 598 lbs lbs α = curvature = $\pi(2.5)$ 7.85 radians

c) Friction losses
$$\frac{PD}{PS} = e^{-(kL + \mu\alpha)}$$

= 0.640

Avg. strand force = 0.820 17.99% Loss

Recommend sequential jacking at both ends of the tendon be used to reduce the overstressing the strand at the live end

Friction loss at mid-point of tendon

$$\frac{PD}{PS} = e^{\frac{-(kL + \mu\alpha)}{2}}$$

= 0.800

Avg. strand force over

half of tendon = 0.900 9.99% Loss

Total force and elongation at live end must be increased to compensate for friction losses

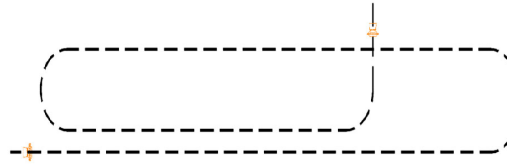
Elong. Adjustment = 0.542 in

Force Adjustment = 2889 lbs

Total Force Required = 32404 lbs **OK**

Elongation Summary:

Gross Theoretical Elongation			
Basic Elongation	5.42 in		
Dead End Seating Loss	0.125 in		
Live End Seating Loss	0.125 in		
Friction Losses	0.542 in		
Total Elongation	6.21 in		
Rounded	6 3/16 in		
Tolerance limits	-7.0%	5.78 in	5 12/16 in
	+7.0%	6.65 in	6 10/16 in



Cable Configuration

25-3470
CCHS Precast Buildings
Right Hand Dugout
ID - CVBS
Floor - FP-02
Weight - 15,635
1 Required

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320)
Job Location: Independence, KY
Contractor: Eaton Asphalt

Plant: 100

6/5/2026 9:04:28 AM

Tech: Jared - A

PC: J. Jarvis



Structure ID: 543

P2 BX036036-08LD08-15X27

CB FLAT TOP 8"W w/15"x27" HOLE F/F

P3) 15" x 27" - P.I.P. - BY OTHERS - 8"
P2) 36" x 36" - CB FLAT TOP 8"W w/15"x27" HOLE F/F - 8"
P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 44"
1) CASTING - HOE KY-230-G F/G (GRADE)
1) 36" x 36" - Conseal CS-102 1.00"
1) 15" x 27" - Conseal CS-102 1.00"
2) Hole - 24
2) Hole - 4

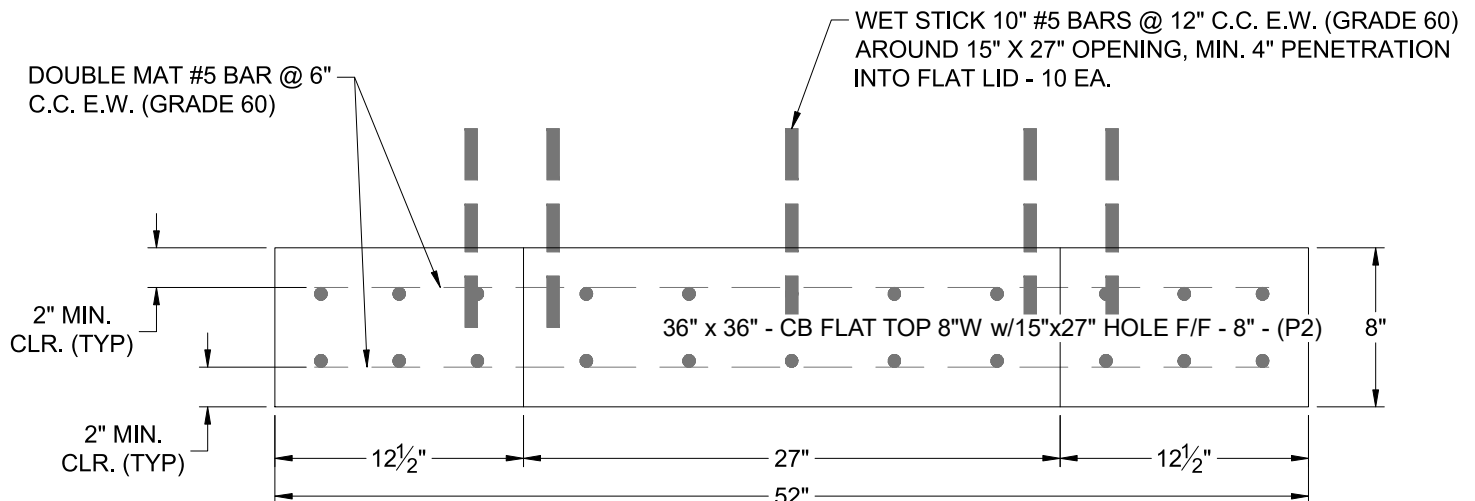
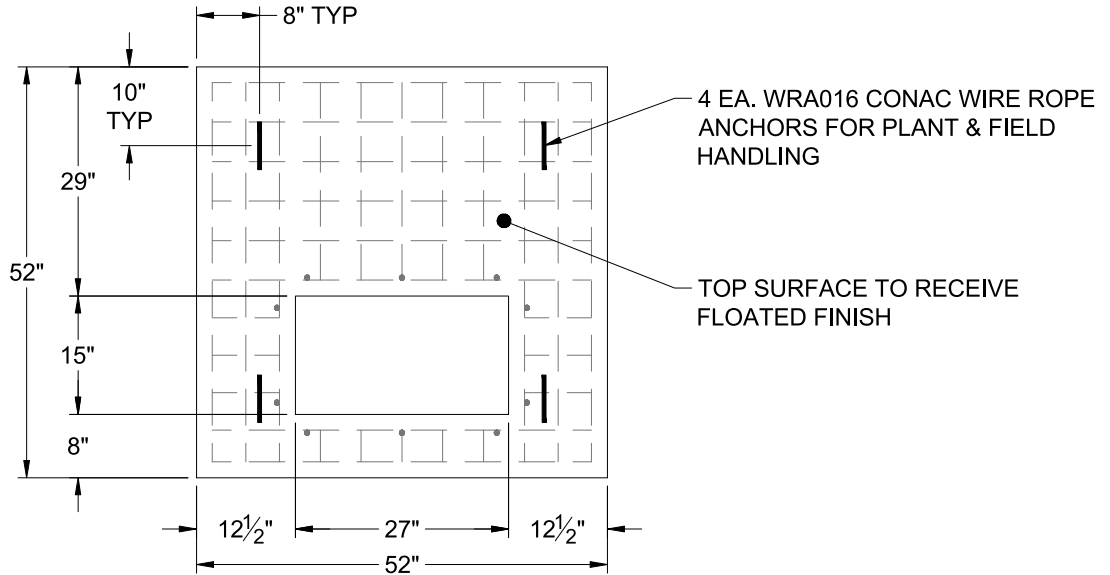
Structure Total:

0 lb
1543 lb
6342 lb
237 lb
0 lb
0 lb
0 lb
0 lb
8123 lb

Structure Notes:

** KYTC STATE PROJECT **

1. PER KYTC DBI 13G / ASTM C-913 SPECS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: DOUBLE MAT #5 BAR @ 6" C.C. (GRADE 60) E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. KY-230G FRAME & GRATE SUPPLIED BY ICAST - POURED IN PLACE BY OTHERS
5. WET STICK #5 BAR @ 12" C.C. (GRADE 60) OUT TOP OF FLAT LID AROUND 15" X 27" OPENING FOR FIELD POUR TIE-IN - MIN. 4" PENETRATION INTO FLAT LID
6. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
7. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 1543 lb
Volume (Net): 0.39cu.yd