

Job Name: 26-2457 884687 Mantra Journey
Job Location: Bardstown, KY
Contractor: Contech Engineering Solutions

Plant: Beaver Dam
6/3/2026 1:43:53 PM

Tech: S. Felletter
PC: C. Goff



Structure ID: 10-CS-3

P2 MH036LD10-30ECC

MH FLAT LID w/30in ECC Hole F/G

P3) 30" - CASTING HEIGHT - 4"
P2) 36" - MH FLAT LID w/30in ECC Hole F/G - 10"
P1) 36" - MH BASE T/n - 60"
1) CVSTENCILING
1) ASSEMBLY REQUIRED
1) 36" - Conseal CS-102 1.00"
2) Hole - 12

0 lb
683 lb
3207 lb
0 lb
0 lb
0 lb
0 lb

Structure Total: 3890 lb

Structure Notes:
4" CASTING BY OTHERS

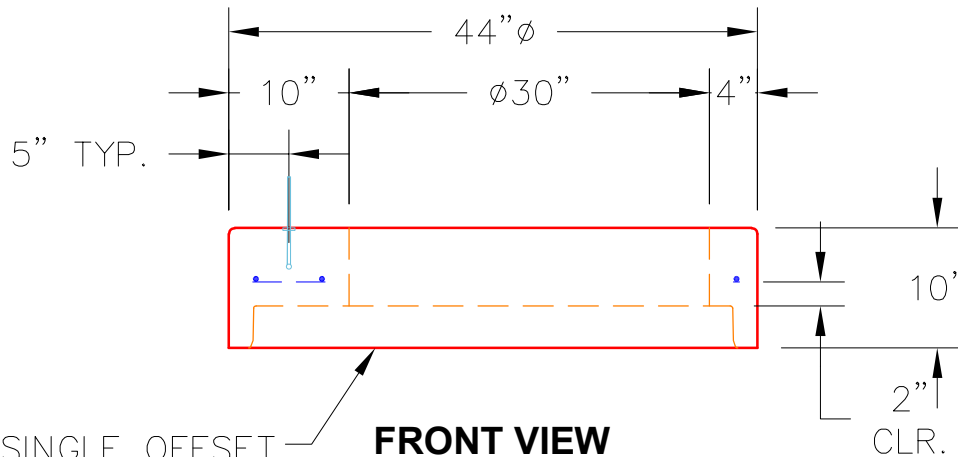
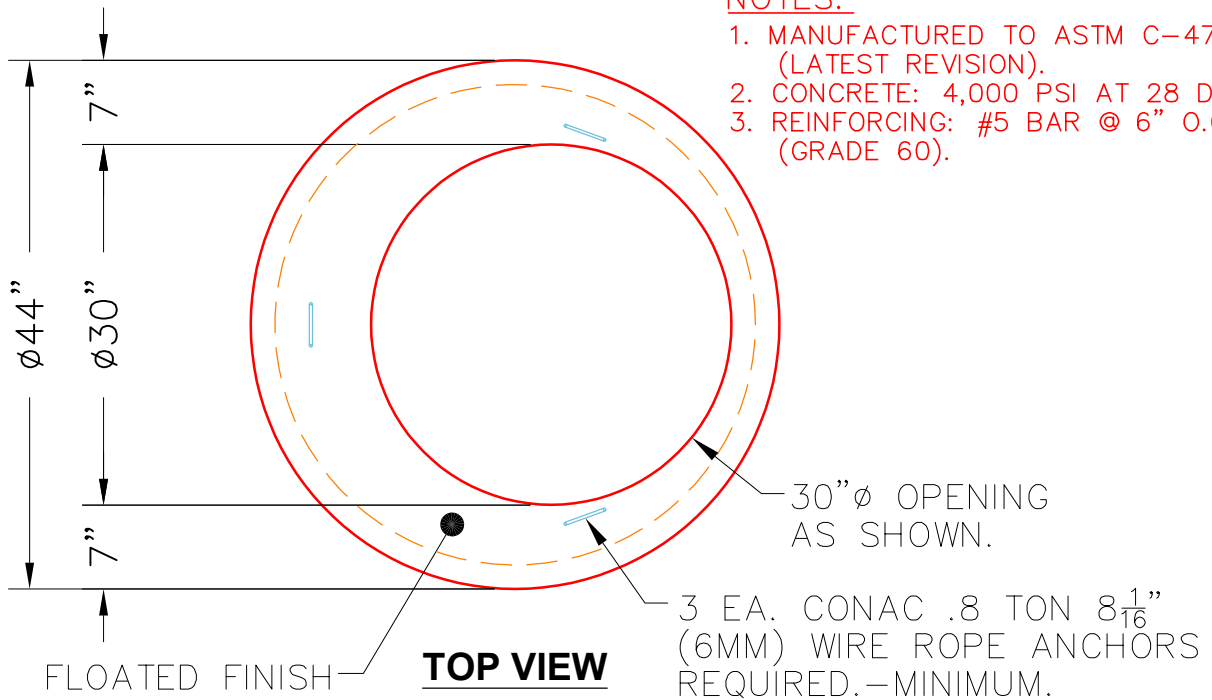
LIFT ANCHORS TO BE INSTALLED
ON THE OUTSIDE OF THE STRUCTURE

ICAST TO INSTALL THE INTERNALS

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

NOTES:

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



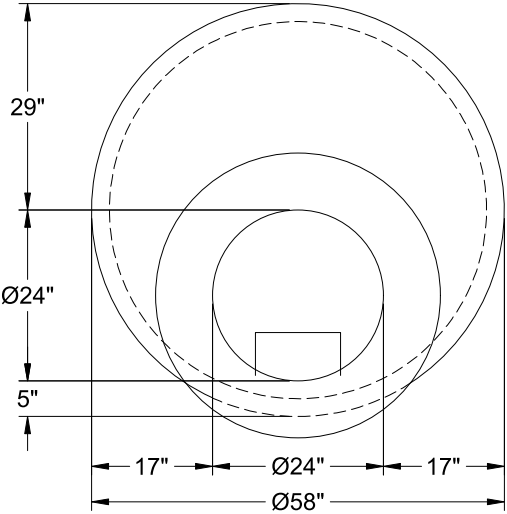
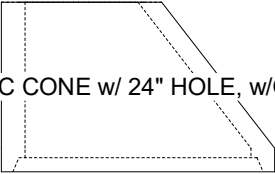
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Coating (Ext):

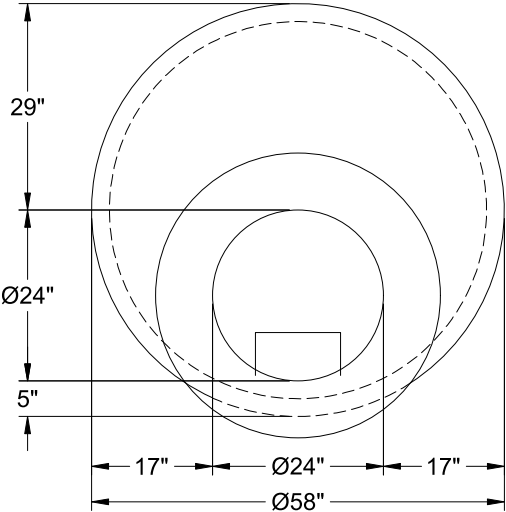
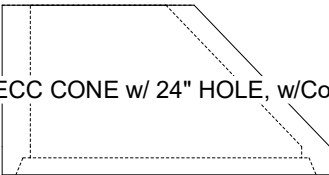
Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 4"

Height (Ext): 10"

Weight (Net): 683 lb
Volume (Net): 0.17cu.yd

Job Name: 26-1715 - Christian Co HS Sewer Job Location: Hopkinsville, KY Contractor: West Kentucky Industrial & Plumbing		Plant: 100 6/8/2026 4:06:11 PM	Tech: Jared - A PC: T. Lewis	
Structure ID: 2 SS-MH				
P3 MH048CN36CDARED		ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G		
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24" 1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) ADMIXTURE CONBLOCK CDA RED 1) CASTING - JBS 1140 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 DD (DBL Bands) 10) MH Step ML-10-TDS-NCR - 10"		0 lb 2251 lb 4192 lb 2911 lb 0 lb 0 lb 1440 lb 0 lb 250 lb 0 lb 0 lb 16 lb 0 lb ----- 11060 lb	<u>Structure Notes:</u> 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. STEPS REQUIRED 5. CONBLOCK CDA RED ADMIXTURE REQUIRED 6. JBS 1140 FRAME & COVER "SANITARY" SUPPLIED BY ICAST	
				
48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36" - (P3) 				
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 36"	Weight (Net): 2251 lb Volume (Net): 0.57cu.yd

Job Name: 26-1715 - Christian Co HS Sewer Job Location: Hopkinsville, KY Contractor: West Kentucky Industrial & Plumbing		Plant: 100 6/8/2026 4:06:11 PM	Tech: Jared - A PC: T. Lewis	
Structure ID: 3 SS-MH				
P3 MH048CN30CDARED		ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G		
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 36" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 18" 1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) ADMIXTURE CONBLOCK CDA RED 1) CASTING - JBS 1140 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 1) PSX - 12-08 DD (DBL Bands) 1) PSX - 8QRS DD (DBL Bands) 7) MH Step ML-10-TDS-NCR - 10"		0 lb 1961 lb 2515 lb 2519 lb 0 lb 0 lb 1440 lb 0 lb 250 lb 0 lb 0 lb 8 lb 6 lb 0 lb Structure Total: 8699 lb	<u>Structure Notes:</u> 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. STEPS REQUIRED 5. CONBLOCK CDA RED ADMIXTURE REQUIRED 6. JBS 1140 FRAME & COVER "SANITARY" SUPPLIED BY ICAST	
				
 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30" - (P3)				
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 30"	Weight (Net): 1961 lb Volume (Net): 0.5cu.yd

Job Name: 26-1715 - Christian Co HS Sewer

Job Location: Hopkinsville, KY

Contractor: West Kentucky Industrial & Plumbing

Plant: 100

6/8/2026 4:05:07 PM

Tech: Jared - A

PC: T. Lewis



Structure ID: 3 SS-MH

P2 MH048RS36CDARED

MH RISER w/ConBlock-CDA Red T/G

P4) 24" - CASTING HEIGHT - 7"

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

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

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

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

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

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

1) ADMIXTURE CONBLOCK CDA RED

1) CASTING - JBS 1140 F/C SANITARY

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

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

1) PSX - 12-08 DD (DBL Bands)

1) PSX - 8QRS DD (DBL Bands)

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

0 lb

1961 lb

2515 lb

2519 lb

0 lb

0 lb

1440 lb

0 lb

250 lb

0 lb

0 lb

8 lb

6 lb

0 lb

Structure Total: 8699 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT: PER ASTM A615

4. STEPS AT 0 DEGREES

5. CONBLOCK CDA RED ADMIXTURE REQUIRED

6. JBS 1140 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

Rim: 541'

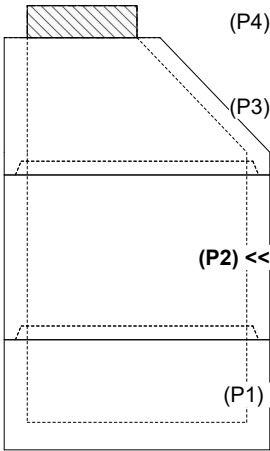
Rim to Invert: 7.64'

Slack: 2.68"

Sump: 2"

Step Position: 0°

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



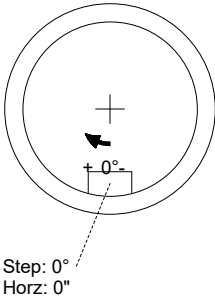
(P4)

(P3)

(P2) <<

(P1)

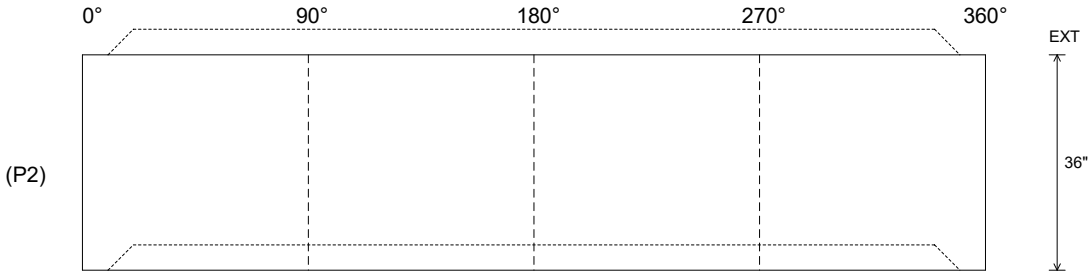
RIGHT-SIDE UP VIEW (int. dimensions)



Step: 0°

Horz: 0°

INSIDE WALL DIMENSIONS



0°

90°

180°

270°

360°

(P2)

EXT

36"

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: Groove

Wall Thickness: 5"

Floor Height: 0"

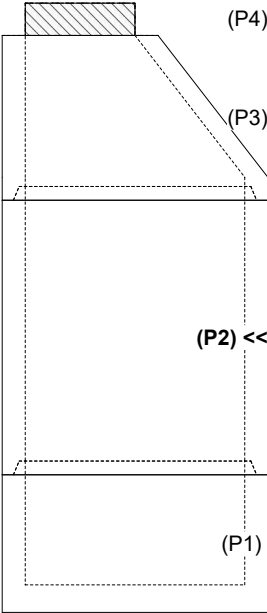
Height (Int): 36"

Height (Ext): 36"

Weight (Net): 2515 lb

Volume (Net): 0.64cu.yd

Job Name: 26-1715 - Christian Co HS Sewer Job Location: Hopkinsville, KY Contractor: West Kentucky Industrial & Plumbing					Plant: 100 6/8/2026 4:05:06 PM		Tech: Jared - A PC: T. Lewis						
Structure ID: 2 SS-MH													
P2 MH048RS60CDARED				MH RISER w/ConBlock-CDA Red T/G									
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24" 1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) ADMIXTURE CONBLOCK CDA RED 1) CASTING - JBS 1140 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 DD (DBL Bands) 10) MH Step ML-10-TDS-NCR - 10"						0 lb 2251 lb 4192 lb 2911 lb 0 lb 0 lb 1440 lb 0 lb 250 lb 0 lb 0 lb 16 lb 0 lb ----- 11060 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. STEPS AT 0 DEGREES 5. CONBLOCK CDA RED ADMIXTURE REQUIRED 6. JBS 1140 FRAME & COVER "SANITARY" SUPPLIED BY ICAST					
Rim: 541.75' Rim to Invert: 10.61' Slack: 2.32" Sump: 2" Step Position: 0°													
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset			
Invert 1													
Invert 2													
Invert 3													
Invert 4													
Invert 5													
Invert 6													
Invert 7													
Invert 8													



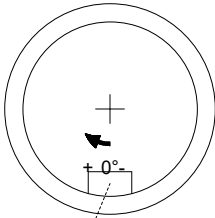
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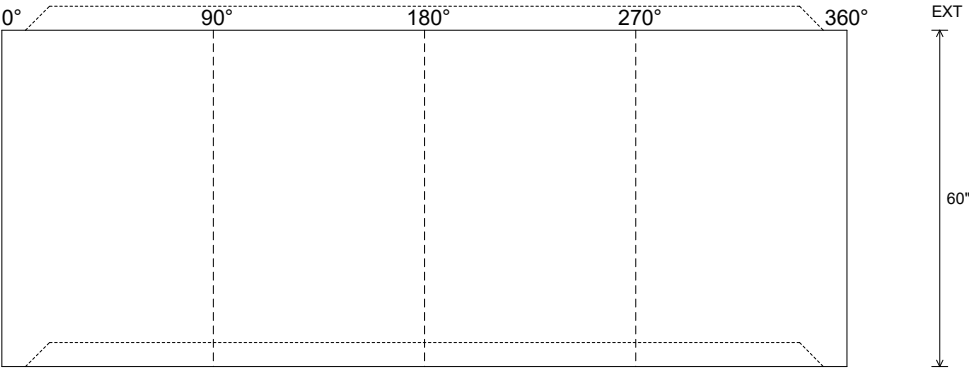
(P1)

RIGHT-SIDE UP VIEW (int. dimensions)



Step: 0°
Horz: 0"

INSIDE WALL DIMENSIONS

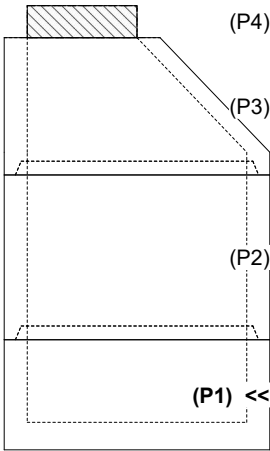


(P2)

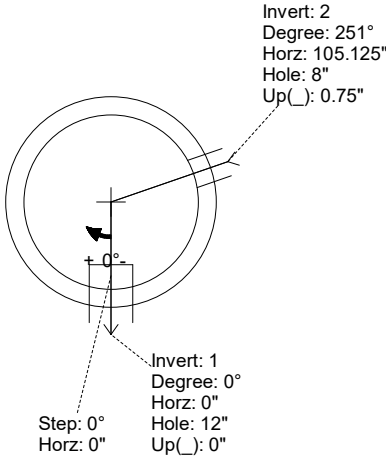
EXT 60"

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 5" Floor Height: 0"	Height (Int): 60" Height (Ext): 60"	Weight (Net): 4192 lb Volume (Net): 1.07cu.yd
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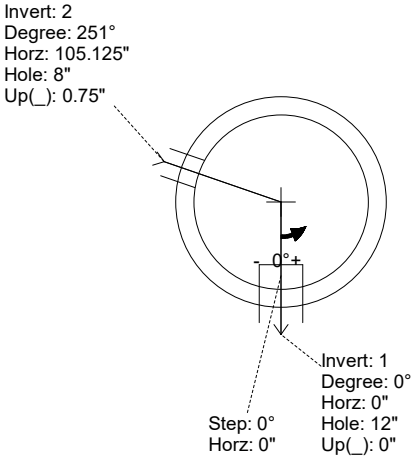
Job Name: 26-1715 - Christian Co HS Sewer Job Location: Hopkinsville, KY Contractor: West Kentucky Industrial & Plumbing					Plant: 100 6/8/2026 4:04:42 PM		Tech: Jared - A PC: T. Lewis				
Structure ID: 3 SS-MH											
P1 MH048BA18CDARED					MH BASE w/ConBlock-CDA Red T/n						
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 36" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 18" 1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) ADMIXTURE CONBLOCK CDA RED 1) CASTING - JBS 1140 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 1) PSX - 12-08 DD (DBL Bands) 1) PSX - 8QRS DD (DBL Bands) 7) MH Step ML-10-TDS-NCR - 10"					0 lb 1961 lb 2515 lb 2519 lb 0 lb 0 lb 1440 lb 0 lb 250 lb 0 lb 0 lb 8 lb 0 lb 6 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL WITH SMOOTH FINISH REQUIRED 5. STEPS AT 0 DEGREES 6. CONBLOCK CDA RED ADMIXTURE REQUIRED 7. JBS 1140 FRAME & COVER "SANITARY" SUPPLIED BY ICAST 8. DOUBLE EXTERNAL BANDS REQUIRED FOR EACH DIRECT DRIVE BOOT - SUPPLIED BY ICAST				
Rim: 541' Rim to Invert: 7.64' Slack: 2.68" Sump: 2" Step Position: 0°					Structure Total: 8699 lb						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	533.36'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	0"	0"	
Invert 2	533.46'	251°	127"	3" PVC SDR35	3.25"	PSX 8QRS DD (DBL Bands)	8"	8.038"	0.75"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



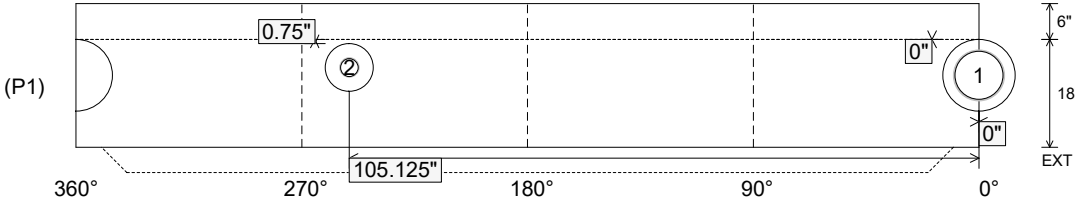
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

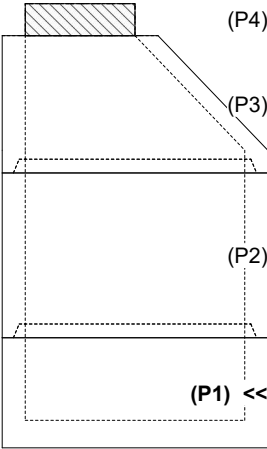


INSIDE WALL DIMENSIONS



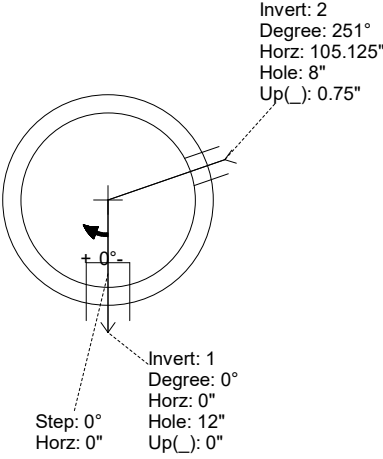
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 18" Height (Ext): 24"	Weight (Net): 2519 lb Volume (Net): 0.64cu.yd
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Job Name: 26-1715 - Christian Co HS Sewer Job Location: Hopkinsville, KY Contractor: West Kentucky Industrial & Plumbing					Plant: 100 6/8/2026 4:04:42 PM		Tech: Jared - A PC: T. Lewis				
Structure ID: 3 SS-MH											
P1 MH048BA18CDARED					MH BASE w/ConBlock-CDA Red T/n						
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 36" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 18" 1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) ADMIXTURE CONBLOCK CDA RED 1) CASTING - JBS 1140 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 1) PSX - 12-08 DD (DBL Bands) 1) PSX - 8QRS DD (DBL Bands) 7) MH Step ML-10-TDS-NCR - 10"					0 lb 1961 lb 2515 lb 2519 lb 0 lb 0 lb 1440 lb 0 lb 250 lb 0 lb 0 lb 8 lb 8 lb 6 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL WITH SMOOTH FINISH REQUIRED 5. STEPS AT 0 DEGREES 6. CONBLOCK CDA RED ADMIXTURE REQUIRED 7. JBS 1140 FRAME & COVER "SANITARY" SUPPLIED BY ICAST 8. DOUBLE EXTERNAL BANDS REQUIRED FOR EACH DIRECT DRIVE BOOT - SUPPLIED BY ICAST				
Rim: 541' Rim to Invert: 7.64' Slack: 2.68" Sump: 2" Step Position: 0°					Structure Total: 8699 lb						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	533.36'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	0"	0"	
Invert 2	533.46'	251°	127"	3" PVC SDR35	3.25"	PSX 8QRS DD (DBL Bands)	8"	8.038"	0.75"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



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

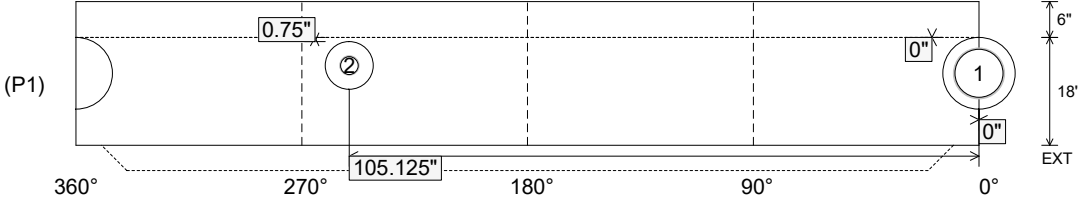
RIGHT-SIDE UP VIEW (int. dimensions)



INVERT CHANNEL DRAWING

SMOOTH FINISH REQUIRED

INSIDE WALL DIMENSIONS



(P1) ② ①

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 18" Height (Ext): 24"	Weight (Net): 2519 lb Volume (Net): 0.64cu.yd
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Coating (Int):	Seam Up: Tongue	Wall Thickness: 5"	Height (Int): 24"	Weight (Net): 2911 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 6"	Height (Ext): 30"	Volume (Net): 0.74cu.yd

Job Name: 26-1715 - Christian Co HS Sewer Job Location: Hopkinsville, KY Contractor: West Kentucky Industrial & Plumbing					Plant: 100 6/8/2026 4:04:41 PM		Tech: Jared - A PC: T. Lewis				
Structure ID: 2 SS-MH											
P1 MH048BA24CDARED					MH BASE w/ConBlock-CDA Red T/n						
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24" 1) JOINT WRAP - 0.065"x6"x50" CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) ADMIXTURE CONBLOCK CDA RED 1) CASTING - JBS 1140 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 DD (DBL Bands) 10) MH Step ML-10-TDS-NCR - 10"					0 lb 2251 lb 4192 lb 2911 lb 0 lb 0 lb 1440 lb 0 lb 250 lb 0 lb 0 lb 16 lb 0 lb ----- 11060 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL WITH SMOOTH FINISH REQUIRED 5. STEPS AT 0 DEGREES 6. CONBLOCK CDA RED ADMIXTURE REQUIRED 7. JBS 1140 FRAME & COVER "SANITARY" SUPPLIED BY ICAST 8. DOUBLE EXTERNAL BANDS REQUIRED FOR EACH DIRECT DRIVE BOOT - SUPPLIED BY ICAST				
Rim: 541.75' Rim to Invert: 10.61' Slack: 2.32" Sump: 2" Step Position: 0°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	531.14'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	0"	0"	
Invert 2	531.24'	93°	47.125"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1.25"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2911 lb Volume (Net): 0.74cu.yd
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Job Name: 26-2402 ADS UK Johnson Center
Job Location: Lexington, KY
Contractor: ADS Advanced Drainage Systems, Inc.

Plant: Beaver Dam
6/3/2026 2:11:47 PM

Tech:
PC: T. Ryan



Structure ID: DS31

P4 MH048LD06SP

MH FLAT TOP SPEC. HT. (6") w/24" Hole CC F/F

- P5) 24" - CASTING HEIGHT - 7"
P4) 48" - MH FLAT TOP SPEC. HT. (6") w/24" Hole CC F/F - 6"
P3) 48" - MH RISER Custom Ht F/G - 44"
P2) 48" - MH RISER T/G - 54"
P1) 48" - MH BASE T/h - 18"
1) ASSEMBLY REQUIRED
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) CASTING - HOE MCB-375-B F/Bar Grt
3) 48" - Con seal CS-102 1.00" (Double)
1) 24" - Con seal CS-102 1.00" (Double)
1) Hole - 28
1) DOGHOUSE INVRTD - 22"x22"

Structure Total:

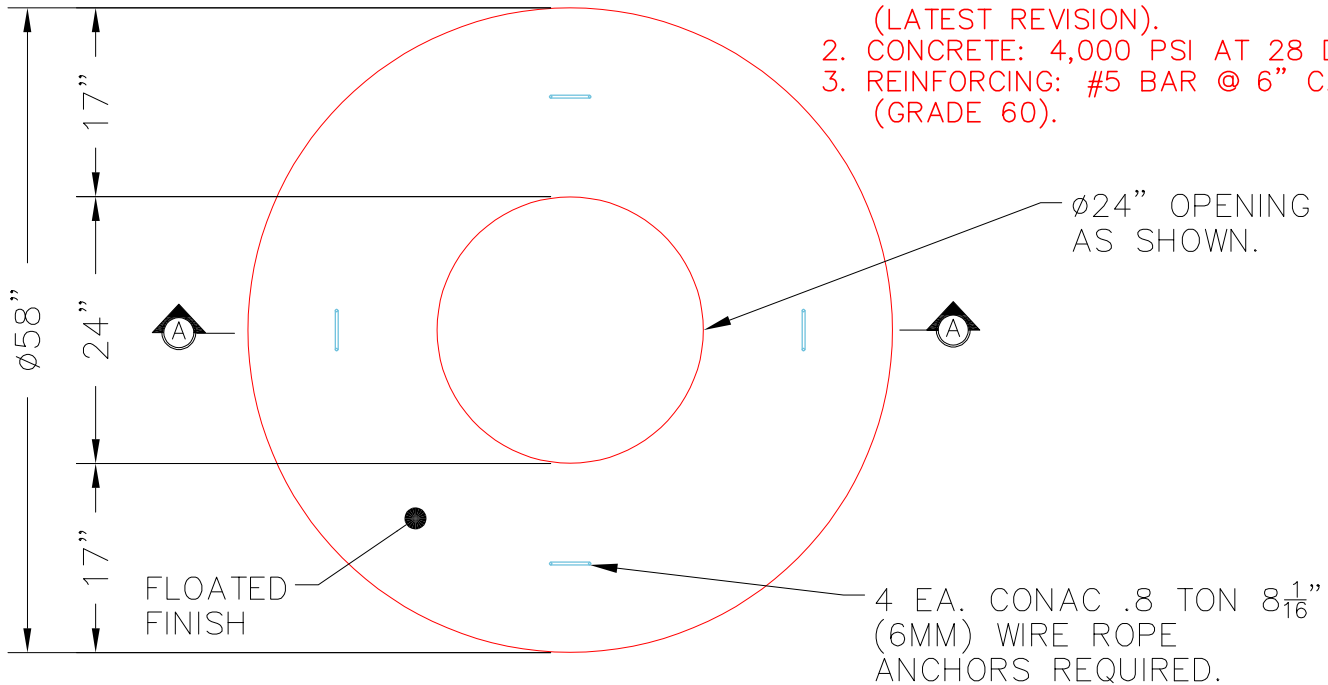
0 lb
1102 lb
2600 lb
3772 lb
2588 lb
0 lb
0 lb
0 lb
250 lb
0 lb
0 lb
0 lb
0 lb
0 lb
10313 lb

Structure Notes:

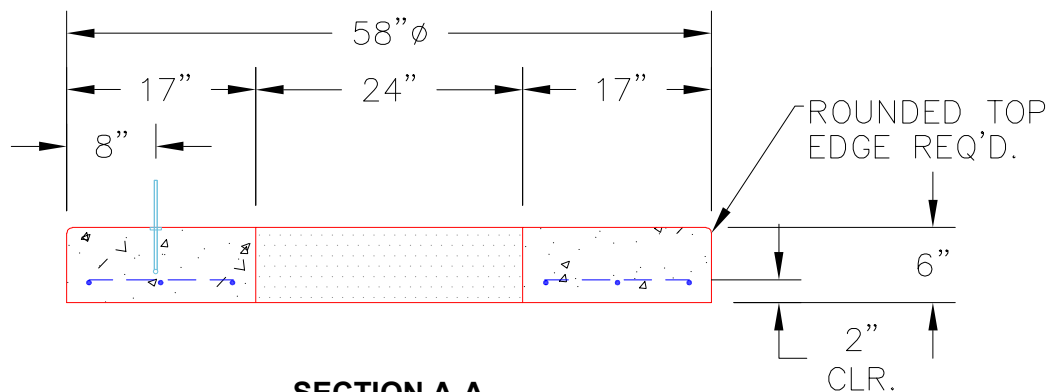
1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING BY ICAST (HOE MCB-375-B F/BAR GRT).
 4. LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE.
 5. P2 & P3 RISERS TO BE MECHANICALLY ATTACHED BEFORE INTERNAL INSTALLATION/DELIVERY.
- REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .18)
- FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

NOTES:

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



PLAN VIEW



SECTION A-A

Coating (Int):
Coating (Ext):

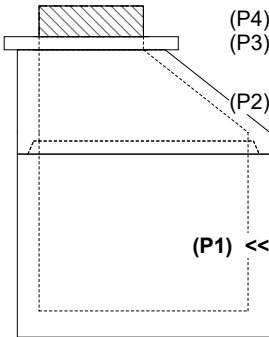
Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 5"

Height (Ext): 6"

Weight (Net): 1102 lb
Volume (Net): 0.28cu.yd

Job Name: 25-4403 - Old Heritage Subdivision Section 6 Job Location: Shelbyville, KY 40065 Contractor: Filcon Construction					Plant: 100 1/3/2026 12:51:57 PM		Tech: J. Horlsey - F PC: C. Goff			
Structure ID: 16+68.81 LN 9										
P1 MH048BA36					MH BASE T/n					
P4) 24" - CASTING HEIGHT - 7" P3) 24" - GRADE RING F/F - 3" P2) 48" - ECC CONE w/ 24" HOLE F/G - 24" P1) 48" - MH BASE T/n - 36" 1) 48" - Conseal CS-102 1.00" 1) Hole - 30 1) Hole - 40 x 28 5) MH Step ML-10-TDS-NCR - 10"					0 lb 202 lb 1550 lb 3107 lb 0 lb 0 lb 0 lb 0 lb ----- 0 lb Structure Total: 4860 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. NO INVERT CHANNEL 5. STEPS AT 247.5 DEGREES 6. CASTING SUPPLIED BY OTHERS			
Rim: 784.94' Rim to Invert: 5.6' Slack: 0.919" Sump: 3.718" Step Position: 247.5°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	779.34'	0°	0"	24" HDPE	27.8"	Hole 30	30"	32.406"	1.819"	0"
Invert 2	779.34'	135°	68.33"	30" x 19" ELL RCP	37.375" x 26.437"	Hole 40 x 28	40" x 28"	47.285"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



RIGHT-SIDE UP VIEW (int. dimensions)

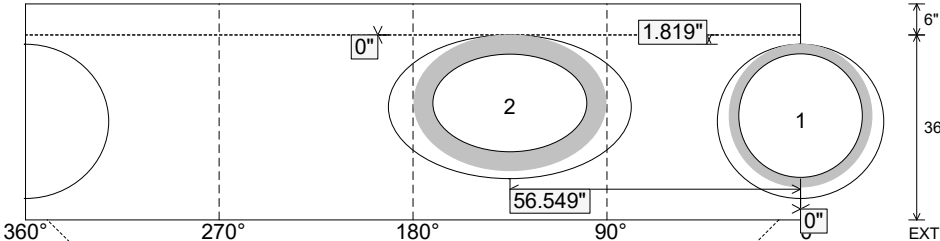
UPSIDE-DOWN VIEW (int. dimenions)

INVERT: 2
Degree: 135°
Horz: 56.549"
Hole: 40" x 28"
Up(): 0"

Step: 247.5°
Horz: 103.673"

INVERT: 1
Degree: 0°
Horz: 0"
Hole: 30"
Up(): 1.819"

INSIDE WALL DIMENSIONS



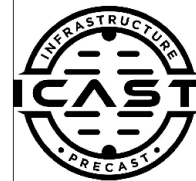
Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

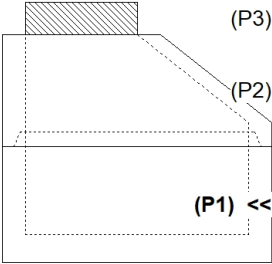
Height (Int): 36"
Height (Ext): 42"

Weight (Net): 3107 lb
Volume (Net): 0.79cu.yd



Weight (Net): 2562 lb
Volume (Net): 0.65cu.yd

Job Name: 23-2404 Hampton Hills (Phase 1) Job Location: Richmond, KY Contractor: Seven Earthmovers LLC					Plant: 100 5/19/2026 12:59:30 PM		Tech: J. Horsley PC: C. Golf				
Structure ID: SSMH DD-2											
P1A MH048BAVF		MH BASE Custom Ht T/n									
P3) 24" - CASTING HEIGHT - 7" P2) 48" - ECC CONE w/ 24" HOLE F/G - 24" P1) 48" - MH BASE Custom Ht T/n - 19" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) CASTING - HOE MC-350 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 3) MH Step ML-10-TDS-NCR - 10"					0 lb 1550 lb 2562 lb 1440 lb 0 lb 0 lb 305 lb 0 lb 16 lb 0 lb Structure Total: 5873 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-350 F/C) SHIPPED LOOSE. 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: 890.9' Rim to Invert: 4' Slack: 0" Sump: 2" Step Position: 0°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	886.9'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"	
Invert 2	887'	193°	97.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

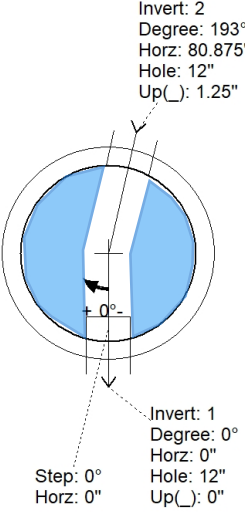


(P3)

(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)

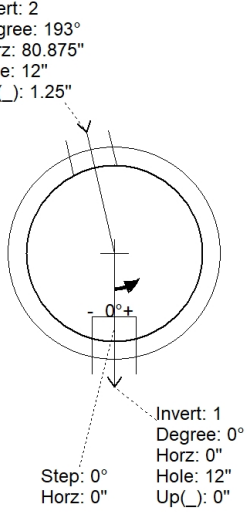


Invert: 2
Degree: 193°
Horz: 80.875"
Hole: 12"
Up(): 1.25"

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

Step: 0°
Horz: 0"

UPSIDE-DOWN VIEW (int. dimensions)



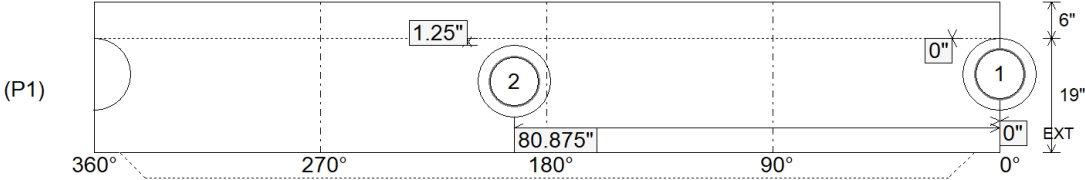
Invert: 2
Degree: 193°
Horz: 80.875"
Hole: 12"
Up(): 1.25"

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

Step: 0°
Horz: 0"

FOR INVERT ONLY

INSIDE WALL DIMENSIONS



(P1)

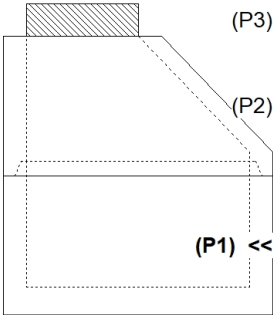
360° 270° 180° 90° 0°

1.25" 80.875" 0" 0"

6" 19" EXT

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 19" Height (Ext): 25"	Weight (Net): 2562 lb Volume (Net): 0.65cu.yd
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Job Name: 23-2404 Hampton Hills (Phase 1) Job Location: Richmond, KY Contractor: Seven Earthmovers LLC					Plant: 100 5/19/2026 12:59:30 PM		Tech: J. Horsley PC: C. Golf				
Structure ID: SSMH CC-3											
P1 MH048BA24		MH BASE T/n									
P3) 24" - CASTING HEIGHT - 7" P2) 48" - ECC CONE w/ 24" HOLE F/G - 30" P1) 48" - MH BASE T/n - 24" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) CASTING - HOE MC-350 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 1) Quik-Lok - QL-08-C 2) PSX - 12-08 NYLO 4) MH Step ML-10-TDS-NCR - 10"					0 lb 2050 lb 2873 lb 1440 lb 0 lb 0 lb 305 lb 0 lb 1 lb 16 lb 0 lb Structure Total: 6685 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-350 F/C) SHIPPED LOOSE. 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: 889' Rim to Invert: 4.93' Slack: 0.16" Sump: 2" Step Position: 0°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	884.07'	0°	0"	8" PVC SDR35	8.5"	Quik-Lok QL-08-C	10.75"	10.842"	0.625"	0"	
Invert 2	884.17'	90°	45.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"	
Invert 3	884.17'	270°	136.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

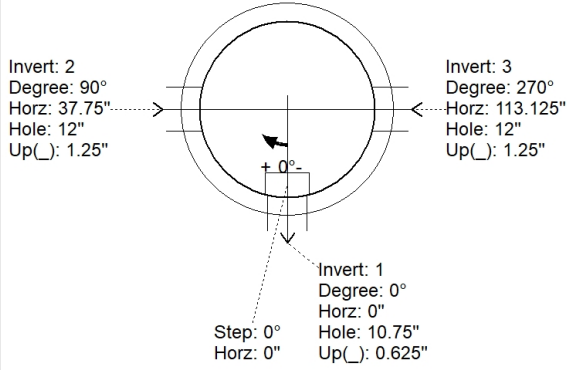


(P3)

(P2)

(P1) <<

RIGHT-SIDE UP VIEW (int. dimensions)



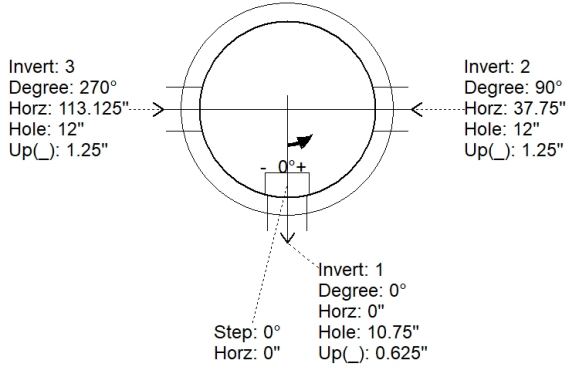
Invert: 2
Degree: 90°
Horz: 37.75"
Hole: 12"
Up(): 1.25"

Invert: 3
Degree: 270°
Horz: 113.125"
Hole: 12"
Up(): 1.25"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 10.75"
Up(): 0.625"

Step: 0°
Horz: 0"

UPSIDE-DOWN VIEW (int. dimensions)



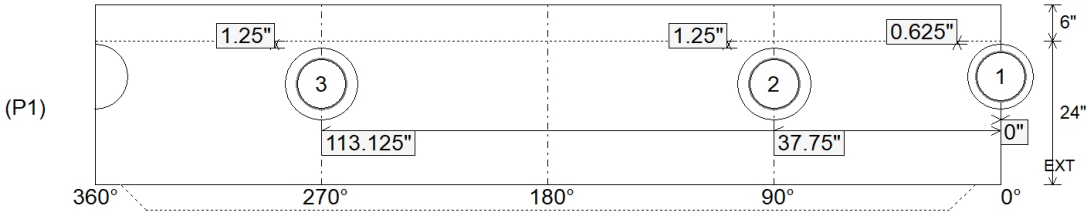
Invert: 3
Degree: 270°
Horz: 113.125"
Hole: 12"
Up(): 1.25"

Invert: 2
Degree: 90°
Horz: 37.75"
Hole: 12"
Up(): 1.25"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 10.75"
Up(): 0.625"

Step: 0°
Horz: 0"

INSIDE WALL DIMENSIONS



(P1)

1.25"

1.25"

0.625"

113.125"

37.75"

0"

360°

270°

180°

90°

0°

6"

24"

EXT

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2873 lb Volume (Net): 0.73cu.yd
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Job Name: 23-2404 Hampton Hills (Phase 1) Job Location: Richmond, KY Contractor: Seven Earthmovers LLC					Plant: 100		Tech: J. Horsley						
					5/19/2026 12:59:30 PM		PC: C. Golf						
Structure ID: SSMH CC-3													
P1A MH048BA24			MH BASE T/n										
P3) 24" - CASTING HEIGHT - 7" P2) 48" - ECC CONE w/ 24" HOLE F/G - 30" P1) 48" - MH BASE T/n - 24" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) CASTING - HOE MC-350 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 1) Quik-Lok - QL-08-C 2) PSX - 12-08 NYLO 4) MH Step ML-10-TDS-NCR - 10"						0 lb 2050 lb 2873 lb 1440 lb 0 lb 0 lb 305 lb 0 lb 1 lb 16 lb 0 lb ----- Structure Total: 6685 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-350 F/C) SHIPPED LOOSE. 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: 889' Rim to Invert: 4.93' Slack: 0.16" Sump: 2" Step Position: 0°													
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset			
Invert 1	884.07'	0°	0"	8" PVC SDR35	8.5"	Quik-Lok QL-08-C	10.75"	10.842"	0.625"	0"			
Invert 2	884.17'	90°	45.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"			
Invert 3	884.17'	270°	136.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"			
Invert 4													
Invert 5													
Invert 6													
Invert 7													
Invert 8													

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

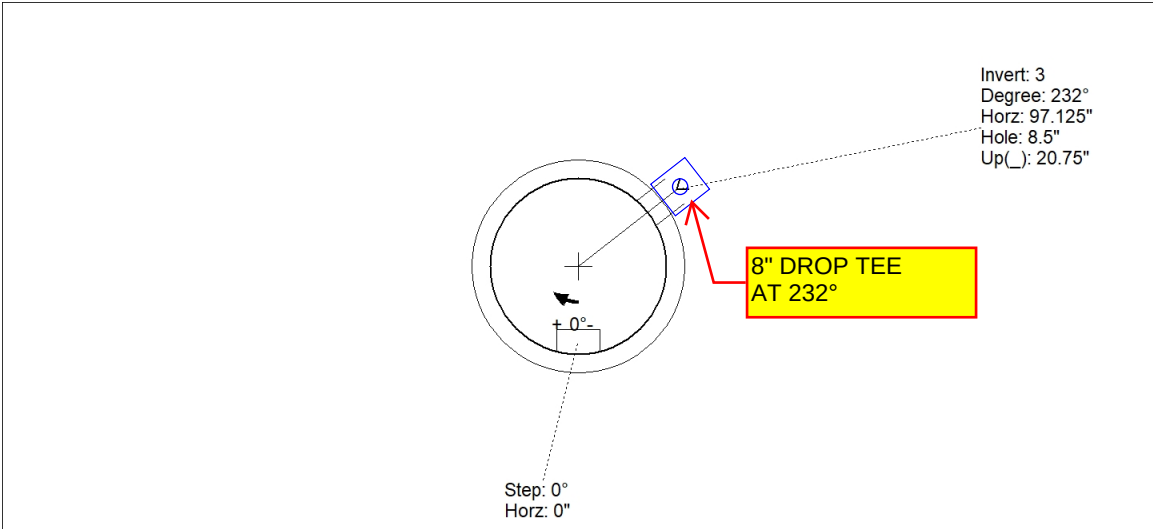
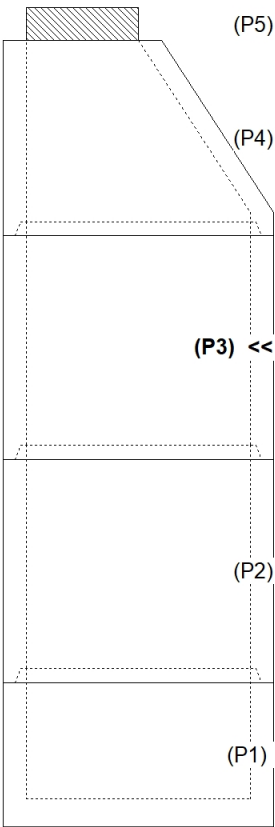
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2873 lb Volume (Net): 0.73cu.yd
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Job Name: 23-2404 Hampton Hills (Phase 1) Job Location: Richmond, KY Contractor: Seven Earthmovers LLC	Plant: 100 5/19/2026 1:01:06 PM	Tech: J. Horsley PC: C. Golf	
Structure ID: SSMH BB-1-DROP			
P3 MH048RS48S-D		MH RISER w/DROP T/G	

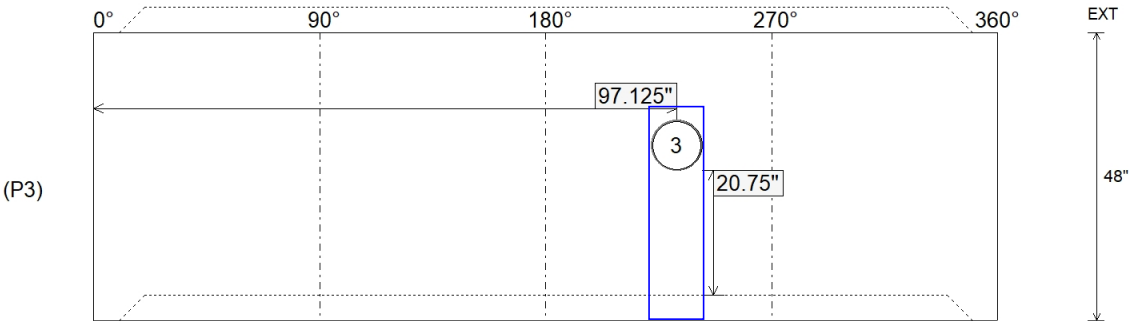
P5) 24" - CASTING HEIGHT - 7"	0 lb	Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-350 F/C) SHIPPED LOOSE. REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12) - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.
P4) 48" - ECC CONE w/ 24" HOLE F/G - 42"	3200 lb	
P3) 48" - MH RISER w/DROP T/G - 48"	3329 lb	
P2) 48" - MH RISER w/DROP T/G - 48"	3353 lb	
P1) 48" - MH BASE w/DROP Custom Ht T/n - 25"	4291 lb	
1) 48" - MH INVERT CHANNEL - FULL HEIGHT	1440 lb	
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212	0 lb	
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb	
1) CASTING - HOE MC-350 F/C Sanitary	305 lb	
3) 48" - Conseal CS-102 1.00" (Double)	0 lb	
2) PSX - 12-08 NYLO	16 lb	
1) Drop Tee - 8" PVC	0 lb	
1) Drop Elbow - 8" PVC	0 lb	
14) MH Step ML-10-TDS-NCR - 10"	0 lb	
Structure Total:		15935 lb

Rim: 858'		Rim to Invert: 14.02'		Slack: 0.24"	Sump: 2"	Step Position: 0°				
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (⌵)	Offset
Invert 1										
Invert 2										
Invert 3	852'	232°	117.375"	8" PVC SDR35	8.5"	Drop Tee 8" PVC	8.5"	8.545"	20.75"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Tongue	Wall Thickness: 5"	Height (Int): 48"	Weight (Net): 3329 lb
Coating (Ext):	Seam Dn: Groove	Floor Height: 0"	Height (Ext): 48"	Volume (Net): 0.85cu.yd

Job Name: 23-2404 Hampton Hills (Phase 1)
 Job Location: Richmond, KY
 Contractor: Seven Earthmovers LLC

Plant: 100

5/19/2026 12:59:31 PM

Tech: J. Horsley

PC: C. Golf



Structure ID: SSMH CC-2-DROP

P1 MH048BAVF-D

MH BASE w/DROP Custom Ht T/n

- P4) 24" - CASTING HEIGHT - 7"
 P3) 48" - ECC CONE w/ 24" HOLE F/G - 30"
 P2) 48" - MH RISER w/DROP T/G - 60"
 P1) 48" - MH BASE w/DROP Custom Ht T/n - 20"
 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
 1) CASTING - HOE MC-350 F/C Sanitary
 2) 48" - Conseal CS-102 1.00" (Double)
 1) PSX - 12-08 NYLO
 1) Drop Tee - 8" PVC
 1) Drop Elbow - 8" PVC
 10) MH Step ML-10-TDS-NCR - 10"

0 lb
 2050 lb
 4168 lb
 3774 lb
 1440 lb
 0 lb
 0 lb
 305 lb
 0 lb
 8 lb
 0 lb
 0 lb
 0 lb
 0 lb

Structure Total: 11745 lb

Structure Notes:

- PER ASTM C478 SPECIFICATIONS.
- CONCRETE = 4,000 PSI AT 28 DAYS.
- CASTING BY ICAST (HOE MC-350 F/C) SHIPPED LOOSE.

REINFORCING PER ASTM A615 (GRADE 60).

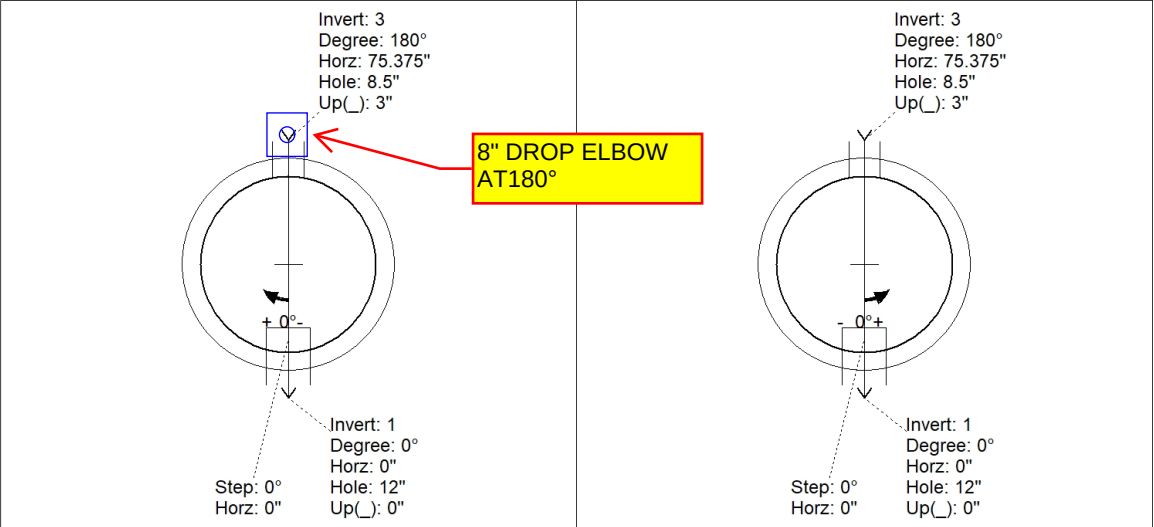
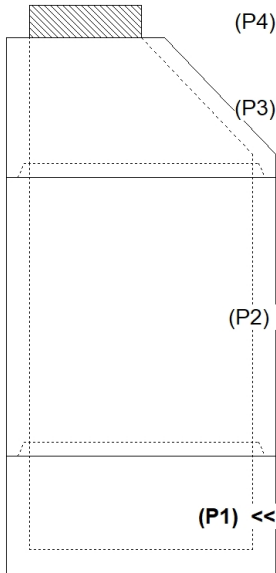
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 859.5' Rim to Invert: 9.65' Slack: 0.8" Sump: 2" Step Position: 0°

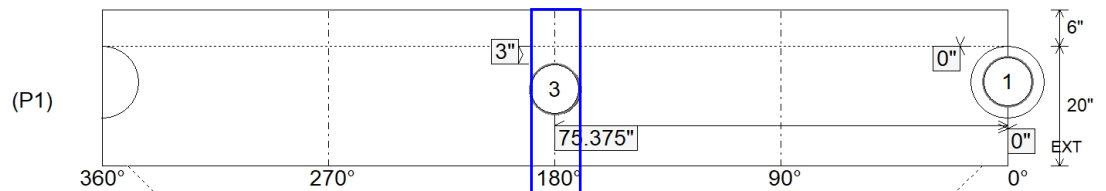
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	849.85'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3	849.95'	180°	91.125"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.545"	3"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

Height (Int): 20"
 Height (Ext): 26"

Weight (Net): 3774 lb
 Volume (Net): 0.96cu.yd

Job Name: 23-2404 Hampton Hills (Phase 1)
 Job Location: Richmond, KY
 Contractor: Seven Earthmovers LLC

Plant: 100

5/19/2026 12:59:31 PM

Tech: J. Horsley

PC: C. Golf



Structure ID: SSMH CC-2-DROP

P1A MH048BAVF-D

MH BASE w/DROP Custom Ht T/n

- P4) 24" - CASTING HEIGHT - 7"
 P3) 48" - ECC CONE w/ 24" HOLE F/G - 30"
 P2) 48" - MH RISER w/DROP T/G - 60"
 P1) 48" - MH BASE w/DROP Custom Ht T/n - 20"
 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
 1) CASTING - HOE MC-350 F/C Sanitary
 2) 48" - Conseal CS-102 1.00" (Double)
 1) PSX - 12-08 NYLO
 1) Drop Tee - 8" PVC
 1) Drop Elbow - 8" PVC
 10) MH Step ML-10-TDS-NCR - 10"

0 lb
 2050 lb
 4168 lb
 3774 lb
 1440 lb
 0 lb
 0 lb
 305 lb
 0 lb
 8 lb
 0 lb
 0 lb
 0 lb
 0 lb

Structure Total: 11745 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (HOE MC-350 F/C) SHIPPED LOOSE.

REINFORCING PER ASTM A615 (GRADE 60).

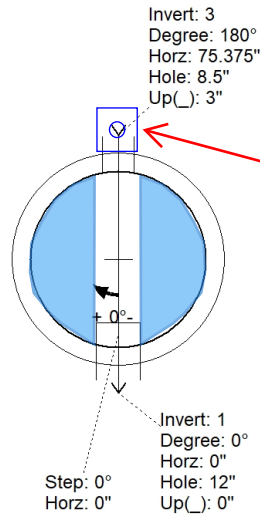
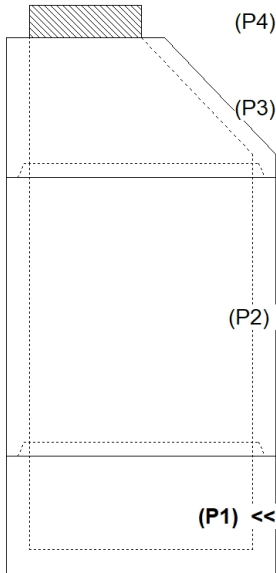
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 859.5' Rim to Invert: 9.65' Slack: 0.8" Sump: 2" Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	849.85'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3	849.95'	180°	91.125"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.545"	3"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

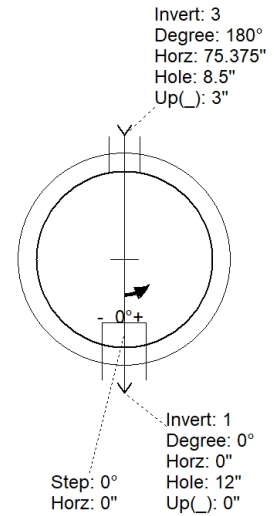
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

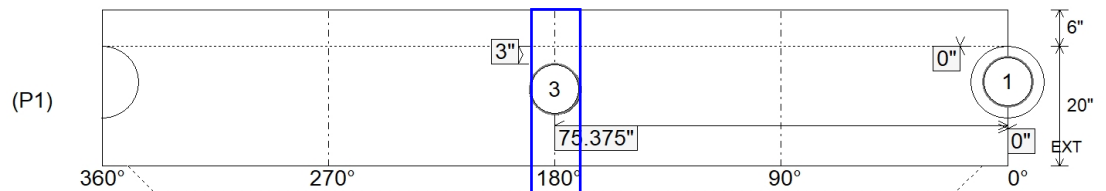


8" DROP ELBOW
AT 180°

FOR INVERT ONLY



INSIDE WALL DIMENSIONS



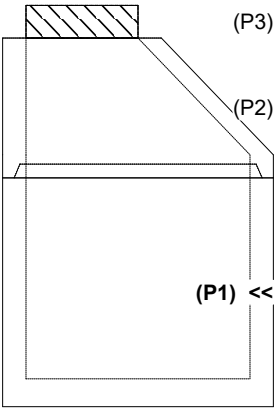
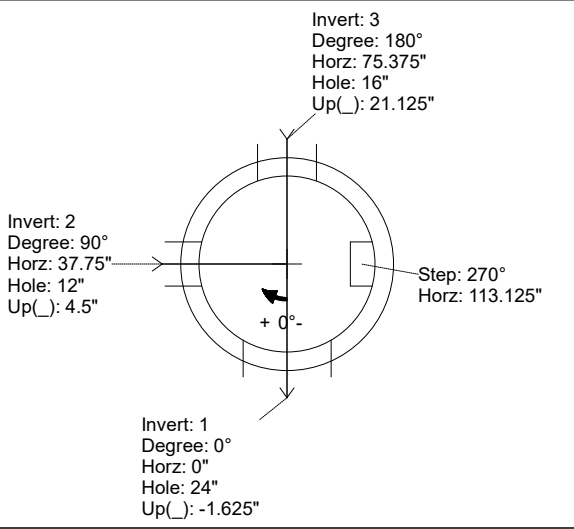
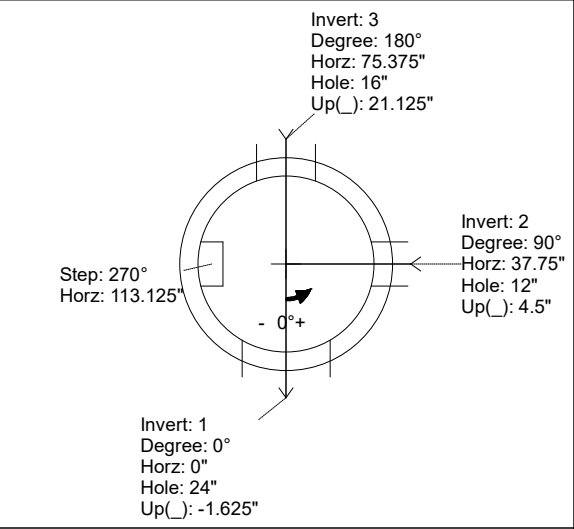
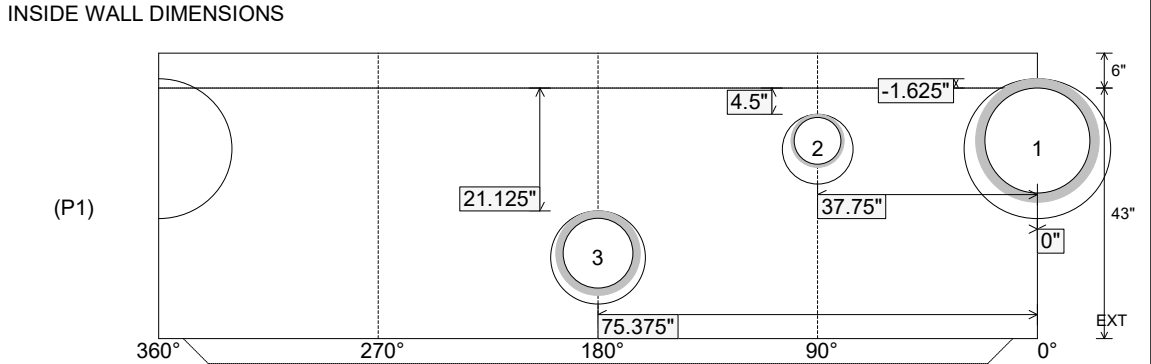
Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

Height (Int): 20"
 Height (Ext): 26"

Weight (Net): 3774 lb
 Volume (Net): 0.96cu.yd

Job Name: 25-3452 - Churchill Downs Skye Terrace Improvements Job Location: Louisville, KY 40208 Contractor: Louisville Paving and Construction					Plant: 100 4/30/2026 1:21:39 PM		Tech: Jared - F PC: J. Jarvis				
Structure ID: S104											
P1 MH048BAVF		MH BASE Custom Ht T/n									
P3) 24" - CASTING HEIGHT - 7" P2) 48" - ECC CONE w/ 24" HOLE F/G - 30" P1) 48" - MH BASE Custom Ht T/n - 43" 1) CASTING - HOE MC-420 F/C Storm 1) 48" - Conseal CS-102 1.00" 1) Hole - 24 1) Hole - 12 1) Hole - 16 7) MH Step ML-10-TDS-NCR - 10"					0 lb 2050 lb 4003 lb 340 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 6393 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 4. CASTING BY ICAST (HOE MC-420 F/C STORM) 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: 454.85' Rim to Invert: 6.73' Slack: 0.76" Sump: 0" Step Position: 270°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	448.12'	0°	0"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"	
Invert 2	448.54'	90°	45.5"	8" HDPE	9.1"	Hole 12	12"	12.129"	4.5"	0"	
Invert 3	449.98'	180°	91.125"	12" HDPE	14.5"	Hole 16	16"	16.312"	21.125"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions) UPSIDE-DOWN VIEW (int. dimensions) INSIDE WALL DIMENSIONS											
   											
Coating (Int): Coating (Ext):			Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 5" Floor Height: 6"		Height (Int): 43" Height (Ext): 49"		Weight (Net): 4003 lb Volume (Net): 1.02cu.yd		

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2

Job Location: Danville, KY

Contractor: Hubert Excavating & Contracting

Plant: 100

6/3/2026 1:48:09 PM

Tech: J. Horsley

PC: C. Goff



Structure ID: MH A8

P1 MH060BAEVF

MH BASE w/FLANGE (08F/07EF) w/Coating T/n

P5) 24" - CASTING HEIGHT - 7"

P4) 48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42"

P3) 48" - MH RISER w/COATING T/G - 72"

P2) 60" - MH Trans. Slab - 48" Hole ECC, w/Coating T/G - 13"

P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 70"

1) JOINT WRAP - 12" WD x 060" MAC WRAP

1) 60" - MH INVERT CHANNEL - FULL HEIGHT

1) SPECIAL EXTERNAL COATING - Carboline 300M

1) SECONDARY POUR - Extended Flange

2) JOINT WRAP - 12" WD x 048" MAC WRAP

1) 60" - Conseal CS-102 1.00" (Double)

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

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

2) A-Lok - 1040

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

308.6 SqFt) Carboline Bitumastic 300M [EXT]

0 lb

3116 lb

5030 lb

1928 lb

10274 lb

0 lb

2692 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

2 lb

0 lb

0 lb

Structure Total: 23043 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT: PER ASTM A615

4. INVERT CHANNEL REQUIRED

5. CARBOLINE 300M EXTERIOR COATING REQUIRED

6. STEPS AT 260 DEGREES

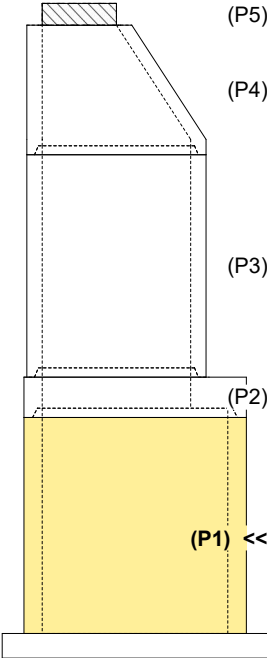
7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS

FIRST POUR (BASE): 8,924 LBS

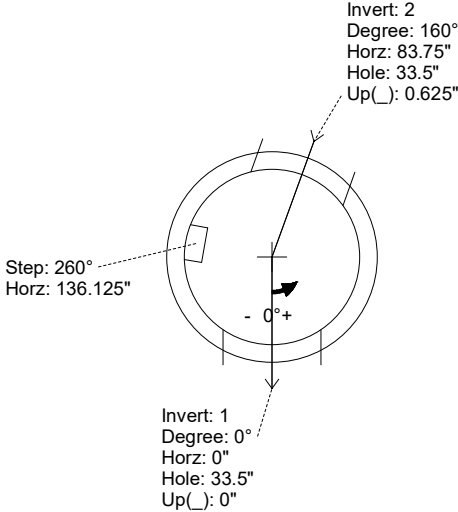
SECOND POUR (FLANGE): 1,350 LBS

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	888.015'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	888.065'	160°	100.5"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

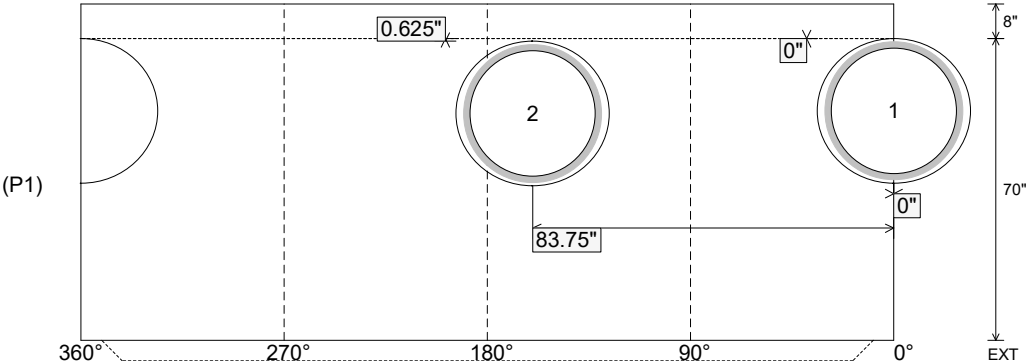
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



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

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 8"

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

Weight (Net): 10274 lb
Volume (Net): 2.62cu.yd

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2 Job Location: Danville, KY Contractor: Hubert Excavating & Contracting				Plant: 100 6/3/2026 1:48:09 PM		Tech: J. Horsley PC: C. Goff				
Structure ID: MH A8										
P1 MH060BAEVF				MH BASE w/FLANGE (08F/07EF) w/Coating T/n						
P5) 24" - CASTING HEIGHT - 7" P4) 48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42" P3) 48" - MH RISER w/COATING T/G - 72" P2) 60" - MH Trans. Slab - 48" Hole ECC, w/Coating T/G - 13" P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 70" 1) JOINT WRAP - 12" WD x 060" MAC WRAP 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) SECONDARY POUR - Extended Flange 2) JOINT WRAP - 12" WD x 048" MAC WRAP 1) 60" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 16) MH Step ML-10-TDS-NCR - 10" 308.6 SqFt) Carboline Bitumastic 300M [EXT]				0 lb 3116 lb 5030 lb 1928 lb 10274 lb 0 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 0 lb 2 lb 0 lb 0 lb Structure Total: 23043 lb		Structure Notes: - PER ASTM C-478 SPECIFICATIONS - CONCRETE: 4,000 PSI AT 28 DAYS - REINFORCEMENT: DRILL & DOWEL #5 BAR @ 8" C.C. E.W. (GRADE 60) FOR FLANGE POUR TIE-IN - 4" MIN. PENETRATION INTO BASE FLOOR & 2" MIN. REBAR CLEARANCE (TYP) - INVERT CHANNEL REQUIRED - CARBOLINE 300M EXTERIOR COATING REQUIRED - STEPS AT 260 DEGREES - HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS FIRST POUR (BASE): 8,924 LBS SECOND POUR (FLANGE): 1,350 LBS				
Rim: 905' Rim to Invert: 16.985' Slack: 2.035" Sump: 2.215" Step Position: 260°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	888.015'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	888.065'	160°	100.5"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 70" Height (Ext): 78"	Weight (Net): 10274 lb Volume (Net): 2.62cu.yd
--	---------------------------------	--	--	---

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2

Job Location: Danville, KY

Contractor: Hubert Excavating & Contracting

Plant: 100

6/3/2026 1:48:09 PM

Tech: J. Horsley

PC: C. Goff



Structure ID: MH A8

P1 MH060BAEVF

MH BASE w/FLANGE (08F/07EF) w/Coating T/n

P5) 24" - CASTING HEIGHT - 7"

P4) 48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42"

P3) 48" - MH RISER w/COATING T/G - 72"

P2) 60" - MH Trans. Slab - 48" Hole ECC, w/Coating T/G - 13"

P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 70"

1) JOINT WRAP - 12" WD x 060" MAC WRAP

1) 60" - MH INVERT CHANNEL - FULL HEIGHT

1) SPECIAL EXTERNAL COATING - Carboline 300M

1) SECONDARY POUR - Extended Flange

2) JOINT WRAP - 12" WD x 048" MAC WRAP

1) 60" - Conseal CS-102 1.00" (Double)

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

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

2) A-Lok - 1040

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

308.6 SqFt) Carboline Bitumastic 300M [EXT]

0 lb

3116 lb

5030 lb

1928 lb

10274 lb

0 lb

2692 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

2 lb

0 lb

0 lb

Structure Total: 23043 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT: PER ASTM A615

4. INVERT CHANNEL REQUIRED

5. CARBOLINE 300M EXTERIOR COATING REQUIRED

6. STEPS AT 260 DEGREES

7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS

Rim: 905'

Rim to Invert: 16.985'

Slack: 2.035"

Sump: 2.215"

Step Position: 260°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	888.015'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	888.065'	160°	100.5"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

(P5)

(P4)

(P3)

(P2)

(P1) <<

Invert: 2

Degree: 160°

Horz: 83.75"

Hole: 33.5"

Up(): 0.625"

Step: 260°

Horz: 136.125"

Invert: 1

Degree: 0°

Horz: 0"

Hole: 33.5"

Up(): 0"

+ 0°-

INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS

0.625"

0"

83.75"

0"

0"

8"

70"

EXT

360°

270°

180°

90°

0°

Coating (Int):

Coating (Ext): Carboline Bitumastic 300M

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 6"

Floor Height: 8"

Height (Int): 70"

Height (Ext): 78"

Weight (Net): 10274 lb

Volume (Net): 2.62cu.yd

Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A8

Note:

This Structure Is To Receive An
External Coating of Carboline 300M
(Supplied By iCast)

Job Name: 25-4508 - Georgetown Commons Target
Job Location: Georgetown, KY
Contractor: Winwater Hartford KY Co.

Plant: 100

5/28/2026 11:26:55 AM

Tech: Jared - F
PC: A. Chambers



Structure ID: 14 (17)

P2 MH060LD13

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

- P4) 24" - CASTING HEIGHT - 7"
P3) 24" - GRADE RING F/F - 4"
P2) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13"
P1) 60" - MH BASE T/n - 72"
1) CASTING - HOE MC-375 F/C Storm
1) 60" - Conseal CS-102 1.00"
2) Hole - 38
1) Hole - 30
6) MH Step ML-10-TDS-NCR - 10"

0 lb
270 lb
2869 lb
8660 lb
271 lb
0 lb
0 lb
0 lb
0 lb

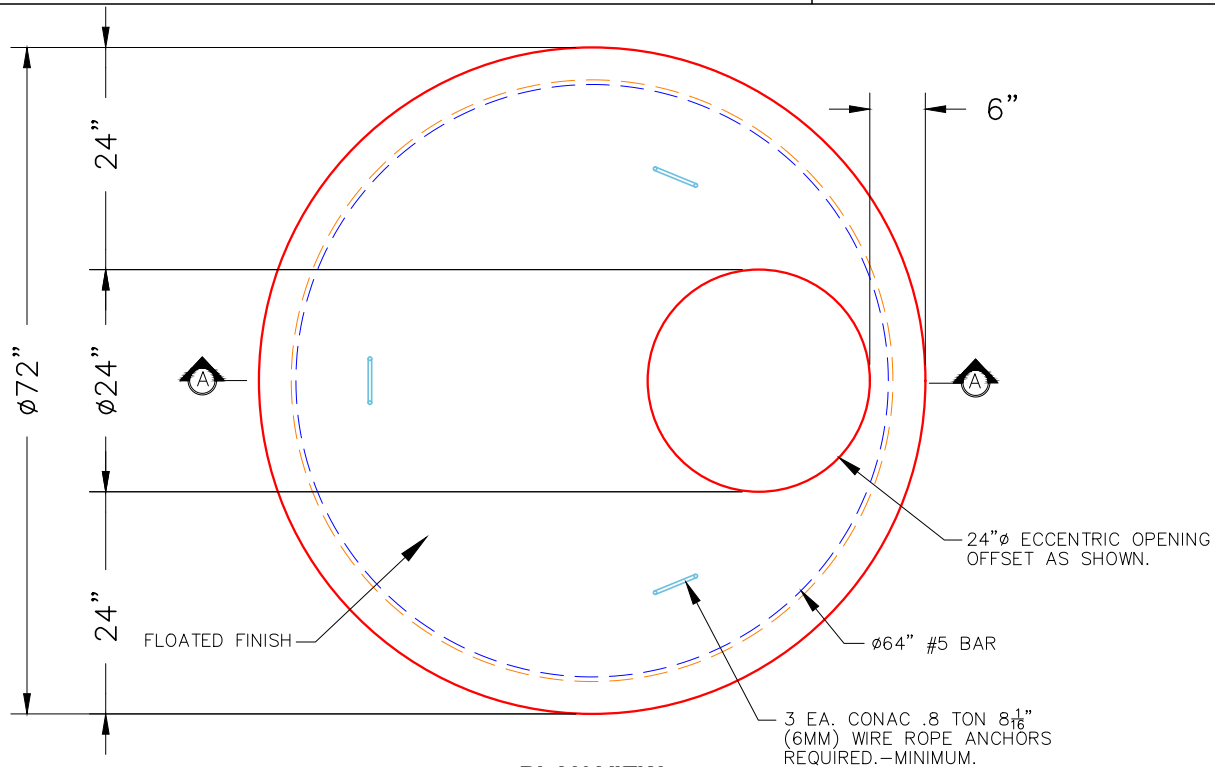
12070 lb

Structure Total:

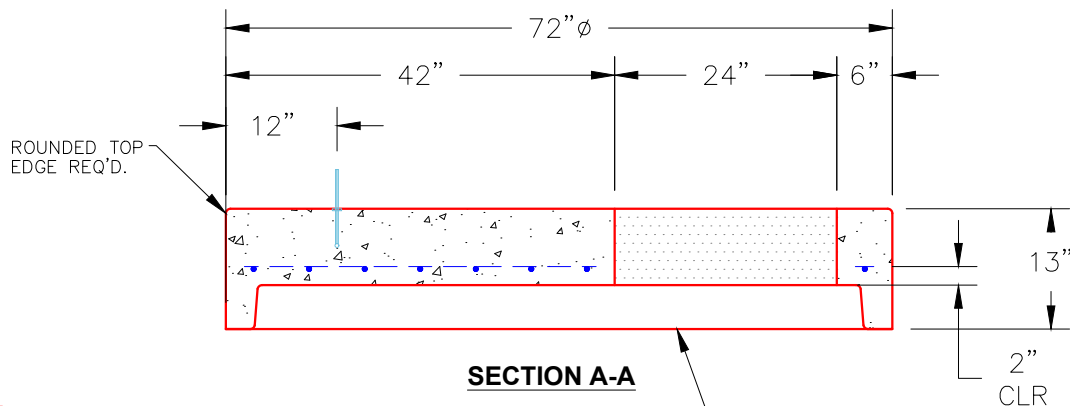
Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. CASTING BY ICAST (HOE MC-375 F/C STORM).

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.



PLAN VIEW



SECTION A-A

NOTES:

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

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 13"

Weight (Net): 2869 lb
Volume (Net): 0.73cu.yd

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2 Job Location: Danville, KY Contractor: Hubert Excavating & Contracting				Plant: 100 6/7/2026 1:24:48 PM		Tech: J. Horsley PC: C. Goff				
Structure ID: MH A11										
P1		MH060BAEVF		MH BASE w/FLANGE (08F/07EF) w/Coating T/n						
P4) 24" - CASTING HEIGHT - 7" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P2) 60" - MH RISER SPECIAL w/COATING T/G - 60" P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 56" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 2) JOINT WRAP - 12" WD x 060" MAC WRAP 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) SECONDARY POUR - Extended Flange 2) 60" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 1) PSX - 8QRS-S NYLO 9) MH Step ML-10-TDS-NCR - 10" 245.92 SqFt) Carboline Bitumastic 300M [EXT] 0 lb 2869 lb 6238 lb 8813 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 2 lb 6 lb 0 lb 0 lb Structure Total: 20621 lb Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - FLOOR: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. CARBOLINE 300M EXTERIOR COATING REQUIRED 6. STEPS AT 278.5 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS				Rim: 900.6' Rim to Invert: 11.165' Slack: 0.195' Sump: 2.215' Step Position: 278.5°						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	889.435'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	889.485'	197°	123.75"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

(P4)

(P3)

(P2)

(P1) <<

FIRST POUR (BASE):
7,646 LBS

SECOND POUR (EXT. FLANGE):
1,167 LBS

Invert: 2
Degree: 197°
Horz: 103.125"
Hole: 33.5"
Up(): 0.625"

Step: 278.5°
Horz: 145.875"

Invert: 1
Degree: 0°
Horz: 0"
Hole: 33.5"
Up(): 0"

INSIDE WALL DIMENSIONS

0.625"

103.125"

0"

0"

8"

56"

360°

270°

180°

90°

0°

EXT

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

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 8"

Height (Int): 56"
Height (Ext): 64"

Weight (Net): 8813 lb
Volume (Net): 2.25cu.yd

Job Number:

25-3579

Job Name:

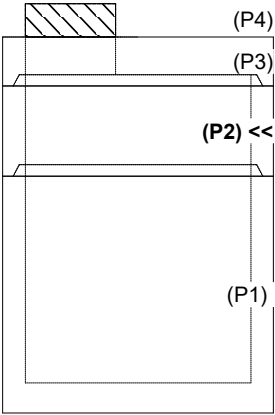
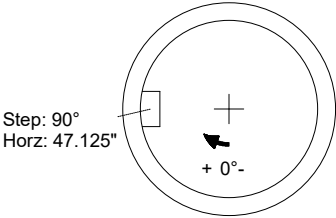
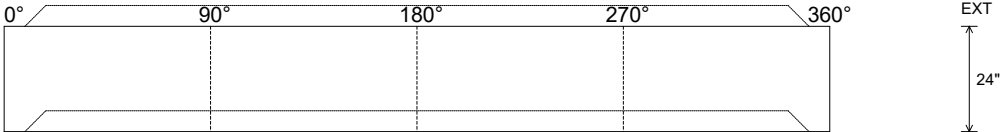
Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

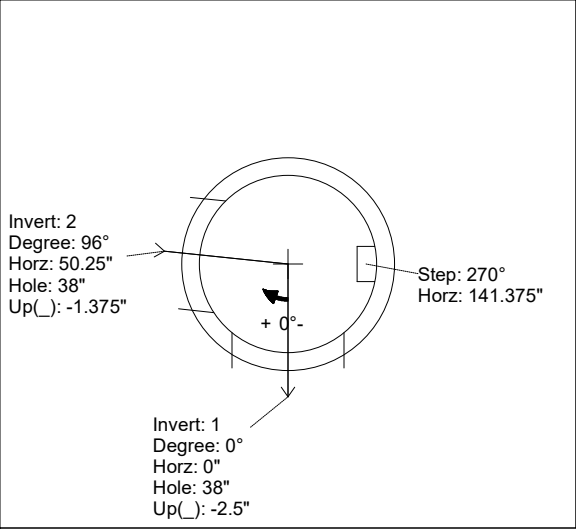
MH A11

Note:

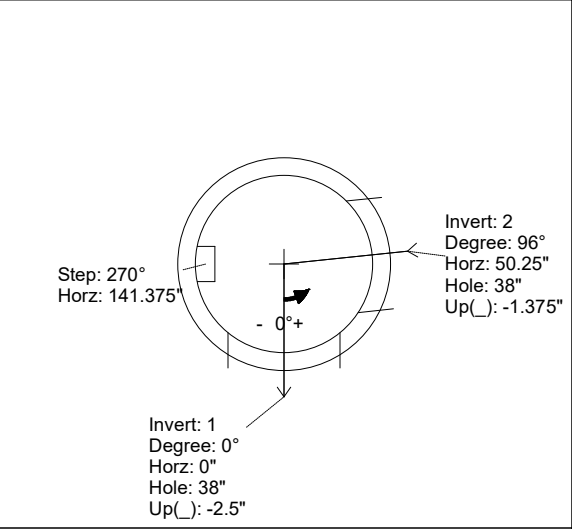
This Structure Is To Receive An
External Coating of Carboline 300M
(Supplied By iCast)

Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100 3/26/2026 1:42:33 PM		Tech: Jared - F PC: E. Bradley				
Structure ID: MH-05											
P2		MH060RS24		MH RISER T/G							
P4) 24" - CASTING HEIGHT - 8.85" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P2) 60" - MH RISER T/G - 24" P1) 60" - MH BASE Custom Ht T/n - 55" 1) CASTING - NEENAH R-1785 (F/C) 2) 60" - Conseal CS-102 1.00" 1) Hole - 38 1) Hole - 40 7) MH Step ML-10-TDS-NCR - 10"					0 lb 2869 lb 2505 lb 7183 lb 294 lb 0 lb 0 lb 0 lb 0 lb 0 lb		Structure Notes: **WVDOT STATE PROJECT** 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. INVERT CHANNEL (BY OTHERS). 4. CASTING BY I-CAST (NEENAH R-1785 (F/C)). REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.. - RISER/WALLS (As .18) - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.				
Rim: 603.25' Rim to Invert: 8.45' Slack: 0.55" Sump: 0" Step Position: 90					Structure Total: 12852 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											
(P2)											
Coating (Int): Coating (Ext):				Seam Up: Tongue Seam Dn: Groove		Wall Thickness: 6" Floor Height: 0"		Height (Int): 24" Height (Ext): 24"		Weight (Net): 2505 lb Volume (Net): 0.64cu.yd	

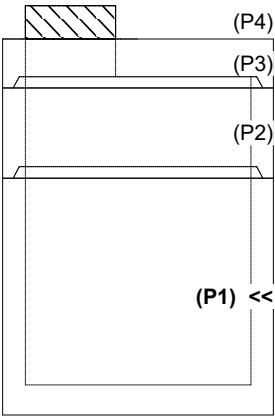
Job Name: 25-4488 - WVDOT Wood Co NHPP-0068(192) Job Location: Parkersburg, WV Contractor: Triton Construction					Plant: 100 3/26/2026 1:41:43 PM		Tech: Jared - F PC: E. Bradley			
Structure ID: MH-06										
P1 MH060BAVF		MH BASE Custom Ht T/n								
P4) 24" - CASTING HEIGHT - 8.85" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P2) 60" - MH RISER T/G - 24" P1) 60" - MH BASE Custom Ht T/n - 55" 1) CASTING - NEENAH R-1785 (F/C) 2) 60" - Conseal CS-102 1.00" 2) Hole - 38 7) MH Step ML-10-TDS-NCR - 10"					0 lb 2869 lb 2505 lb 7255 lb 294 lb 0 lb 0 lb 0 lb ----- Structure Total: 12923 lb		Structure Notes: **WVDOT STATE PROJECT** 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. INVERT CHANNEL (BY OTHERS). 4. CASTING BY I-CAST (NEENAH R-1785 (F/C)). REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.. - RISER/WALLS (As .18) - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.			
Rim: 602.48' Rim to Invert: 8.42' Slack: 0.19' Sump: 0' Step Position: 270										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	594.06'	0°	0"	30" HDPE	35.1"	Hole 38	38"	41.151"	-2.5"	0"
Invert 2	594.16'	96°	60.375"	30" HDPE	35.1"	Hole 38	38"	41.151"	-1.375"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



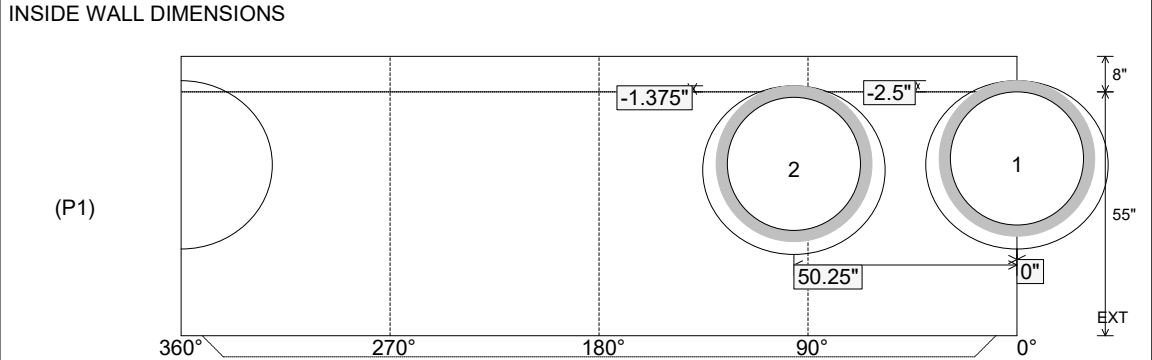
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



(P1) <<



INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 55" Height (Ext): 63"	Weight (Net): 7255 lb Volume (Net): 1.85cu.yd
----------------------------------	---------------------------------	--	--	--

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2 Job Location: Danville, KY Contractor: Hubert Excavating & Contracting				Plant: 100 6/7/2026 1:25:20 PM		Tech: J. Horsley PC: C. Goff				
Structure ID: MH A9										
P3		MH072RS72S		MH RISER SPECIAL w/COATING T/G						
P5) 24" - CASTING HEIGHT - 7" P4) 72" - MH FLAT TOP SPECIAL F/G - 15" P3) 72" - MH RISER SPECIAL w/COATING T/G - 72" P2) 72" - MH RISER w/COATING T/G - 72" P1) 72" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 43" 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) 72" - MH INVERT CHANNEL - FULL HEIGHT 3) JOINT WRAP - 12" WD x 072" MAC WRAP 1) SECONDARY POUR - Extended Flange 3) 72" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 2) Kor-N-Seal2 - S206-28 15) MH Step ML-10-TDS-NCR - 10" 436.79 SqFt) Carboline Bitumastic 300M [EXT] 0 lb 5254 lb 10126 lb 10496 lb 10101 lb 0 lb 5422 lb 0 lb 0 lb 0 lb 0 lb 2 lb 13 lb 0 lb 0 lb ----- 41414 lb Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. CARBOLINE 300M EXTERIOR COATING REQUIRED 5. STEPS AT 90 DEGREES 6. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS 7. EXTERIOR DROP ASSEMBLY AT INVERTS 3 & 4 BY OTHERS - ICAST TO SUPPLY OPENINGS & BOOTS				Rim: 906' Rim to Invert: 17.315' Slack: 0.995" Sump: 2.215" 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	900.95'	245°	183.875"	24" PVC F679 (PS46)	24.803"	Kor-N-Seal2 S206-28	28"	28.759"	27.125"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 7" Floor Height: 0"	Height (Int): 72" Height (Ext): 72"	Weight (Net): 10126 lb Volume (Net): 2.59cu.yd
--	------------------------------------	--	--	---

Job Number:

25-3579

Job Name:

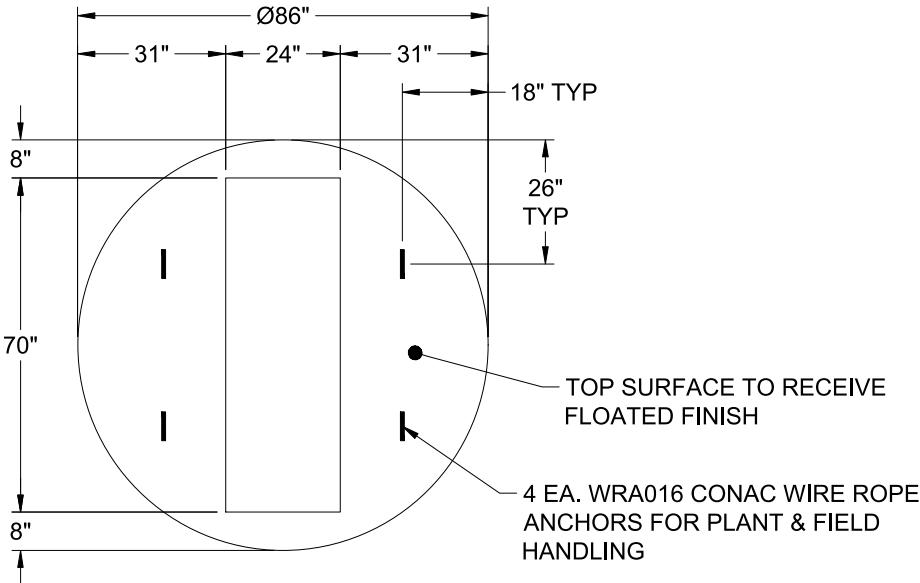
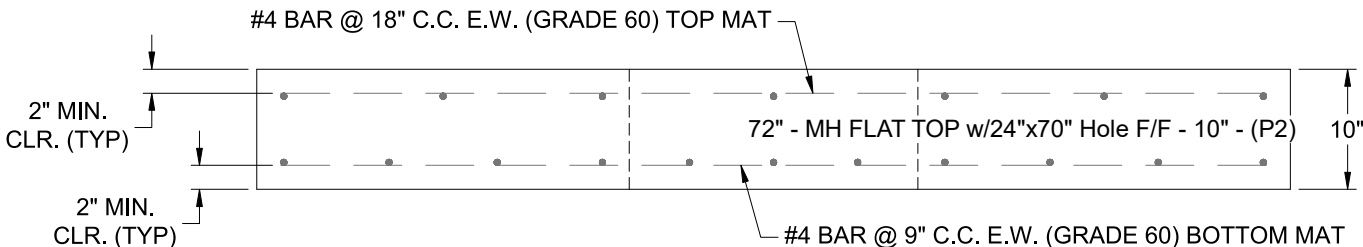
Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

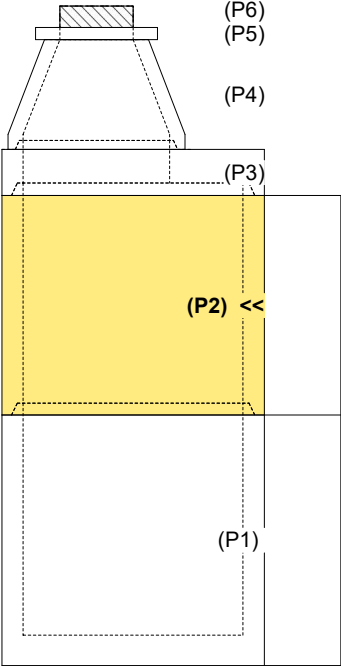
MH A9

Note:

This Structure Is To Receive An
External Coating of Carboline 300M
(Supplied By iCast)

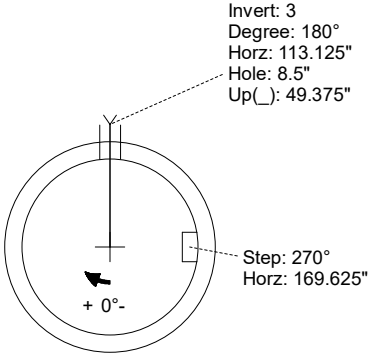
Job Name: 25-2898 - Hunter's Ridge Ph.1 Job Location: Owensboro, KY Contractor: Ernie Davis & Sons Mechanical, Inc.		Plant: 100 5/29/2026 8:45:52 AM	Tech: Jared - A PC: A. Chambers	
Structure ID: AA-3 - AB-1				
P2	MH072LD10S	MH FLAT TOP w/24"x70" Hole F/F		
P3) 24" x 70" - CASTING HEIGHT - 6" P2) 72" - MH FLAT TOP w/24"x70" Hole F/F - 10" P1) 72" - MH BASE Custom Ht F/n - 75" 1) 72" - Conseal CS-102 1.00" 1) Hole - 48 1) Hole - 22 1) Hole - 34 6) MH Step ML-10-TDS-NCR - 10"		0 lb 3465 lb 12909 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 16374 lb	<u>Structures Notes:</u> 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. HOE-525 DOUBLE FRAMES, GRATES, & CURB HOODS SUPPLIED BY OTHERS 5. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING 6. TOP SURFACE TO RECEIVE FLOATED FINISH	
				
				
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 7"	Height (Ext): 10"	Weight (Net): 3465 lb Volume (Net): 0.88cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements Job Location: Fort Mitchell, KY 41017 Contractor: Lykins Contracting					Plant: 100 3/26/2026 2:14:49 PM		Tech: J. Horsley - A PC: Celina Goff				
Structure ID: 2301547											
P2 MH072RSVF-D		MH RISER w/DROP Custom Ht T/G									
P6) 24" - CASTING HEIGHT - 7" P5) 24" - GRADE RING F/F - 4" P4) 48" - CON CONE w/24" HOLE F/G - 36" P3) 72" - MH Transition Slab 48" Hole T/G - 15" P2) 72" - MH RISER w/DROP Custom Ht T/G - 72" P1) 72" - MH BASE (10"F) w/DROP Custom Ht T/n - 72" 1) 72" - MH INVERT CHANNEL - FULL HEIGHT 1) SECONDARY POUR - Add Exterior Drop to Base (P1) 1) SECONDARY POUR - Add Exterior Drop to Riser (P2) 2) 72" - Conseal CS-102 1.00" (Double) 1) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 1) Drop Tee - 8" PVC 1) Drop Elbow - 8" PVC 16) MH Step ML-10-TDS-NCR - 10"					0 lb 270 lb 2252 lb 3864 lb 10463 lb 17336 lb 5422 lb 3526 lb 3096 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 46231 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. STEPS AT 270 DEGREES 5. 7" CASTING SUPPLIED BY OTHERS 6. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST				
Rim: 752.09' Rim to Invert: 17' Slack: 1" Sump: 3" Step Position: 270°					FIRST POUR (RISER): 10,463 LBS SECOND POUR (DROP): 3,096 LBS						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1											
Invert 2											
Invert 3	745.39'	180°	135.125"	8" PVC SDR35	8.5"	Drop Tee 8" PVC	8.5"	8.52"	49.375"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



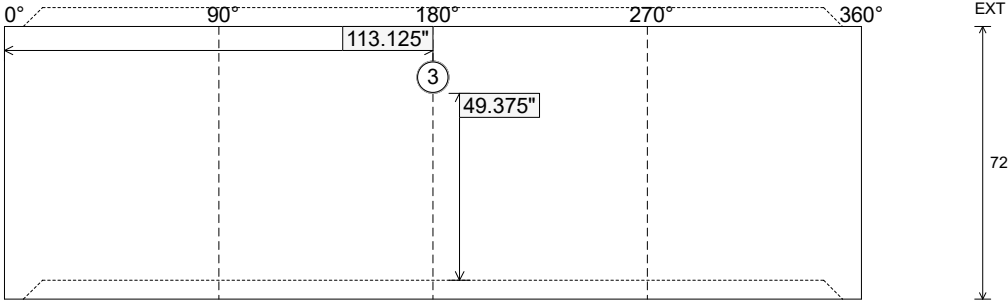
(P6)
(P5)
(P4)
(P3)
(P2) <<
(P1)

RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 3
Degree: 180°
Horz: 113.125"
Hole: 8.5"
Up(_): 49.375"
Step: 270°
Horz: 169.625"

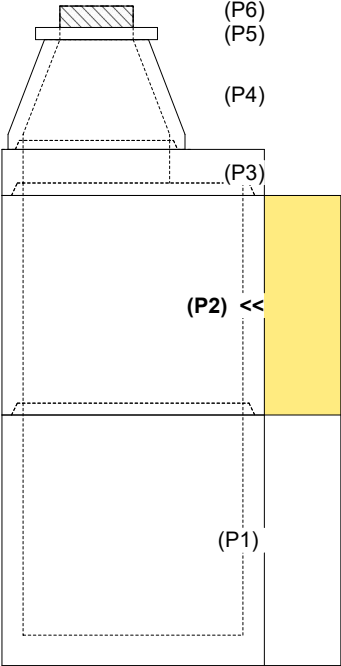
INSIDE WALL DIMENSIONS



0° 90° 180° 270° 360°
113.125"
49.375"
72"

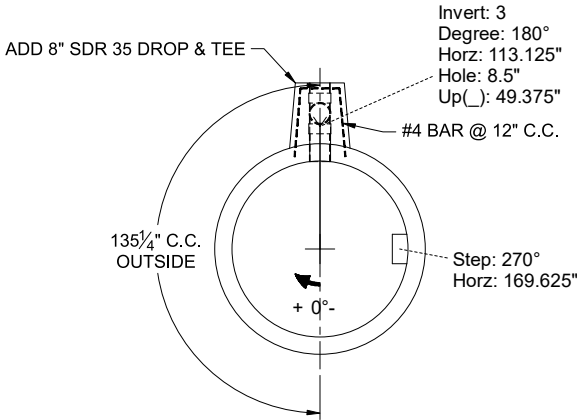
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 7" Floor Height: 0"	Height (Int): 72" Height (Ext): 72"	Weight (Net): 10463 lb Volume (Net): 2.67cu.yd
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Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements Job Location: Fort Mitchell, KY 41017 Contractor: Lykins Contracting				Plant: 100 3/26/2026 2:14:49 PM		Tech: J. Horsley - A PC: Celina Goff				
Structure ID: 2301547										
P2 MH072RSVF-D		MH RISER w/DROP Custom Ht T/G								
P6) 24" - CASTING HEIGHT - 7" P5) 24" - GRADE RING F/F - 4" P4) 48" - CON CONE w/24" HOLE F/G - 36" P3) 72" - MH Transition Slab 48" Hole T/G - 15" P2) 72" - MH RISER w/DROP Custom Ht T/G - 72" P1) 72" - MH BASE (10"F) w/DROP Custom Ht T/n - 72" 1) 72" - MH INVERT CHANNEL - FULL HEIGHT 1) SECONDARY POUR - Add Exterior Drop to Base (P1) 1) SECONDARY POUR - Add Exterior Drop to Riser (P2) 2) 72" - Conseal CS-102 1.00" (Double) 1) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 1) Drop Tee - 8" PVC 1) Drop Elbow - 8" PVC 16) MH Step ML-10-TDS-NCR - 10"					0 lb 270 lb 2252 lb 3864 lb 10463 lb 17336 lb 5422 lb 3526 lb 3096 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. EXTERIOR DROP REINFORCEMENT: DRILL & STUB #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. STEPS AT 270 DEGREES 5. 7" CASTING SUPPLIED BY OTHERS 6. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST 7. ADD 8" SDR 35 DROP & TEE AT INVERT 3 (180°)			
Rim: 752.09' Rim to Invert: 17' Slack: 1" Sump: 3" Step Position: 270°					Structure Total: 46231 lb					
FIRST POUR (RISER): 10,463 LBS					SECOND POUR (DROP): 3,096 LBS					
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1										
Invert 2										
Invert 3	745.39'	180°	135.125"	8" PVC SDR35	8.5"	Drop Tee 8" PVC	8.5"	8.52"	49.375"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



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

RIGHT-SIDE UP VIEW (int. dimensions)



ADD 8" SDR 35 DROP & TEE

Invert: 3
Degree: 180°
Horz: 113.125"
Hole: 8.5"
Up(): 49.375"

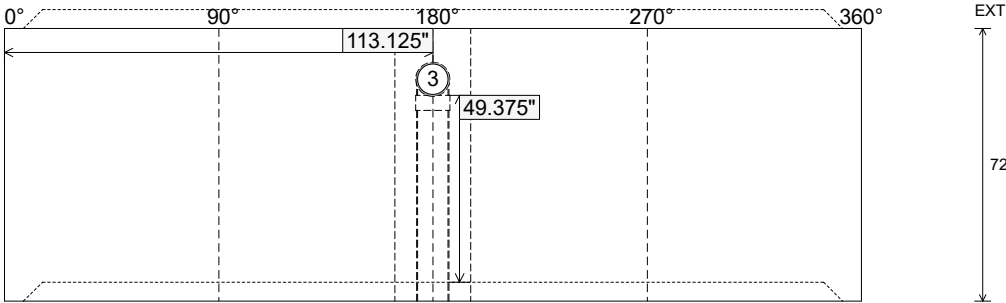
#4 BAR @ 12" C.C.

135 1/4" C.C. OUTSIDE

Step: 270°
Horz: 169.625"

+ 0°-

INSIDE WALL DIMENSIONS



0° 90° 180° 270° 360°

113.125"

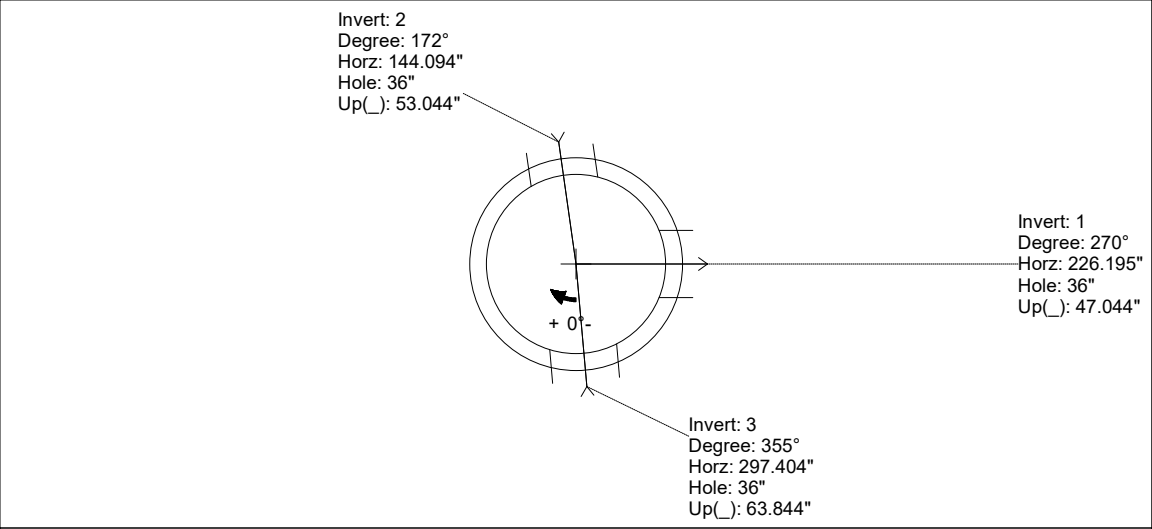
49.375"

EXT 72"

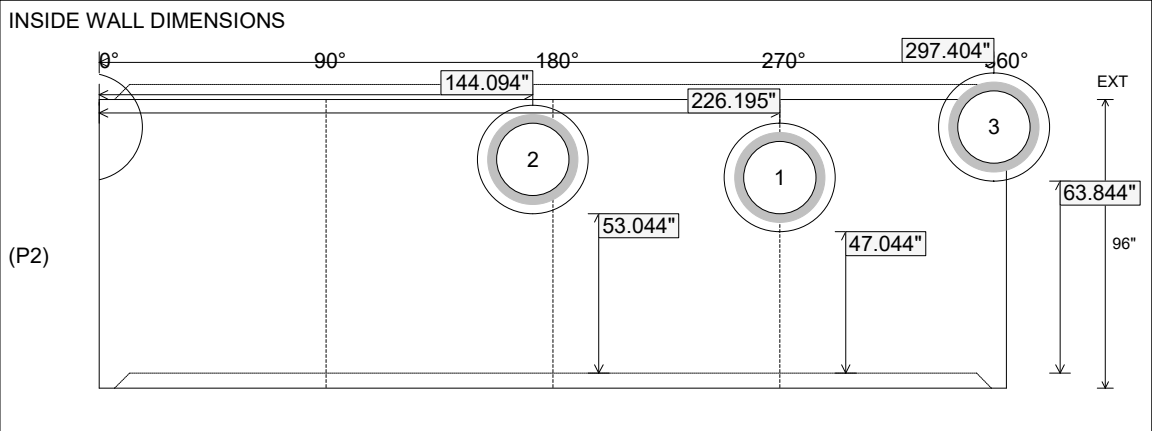
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 7" Floor Height: 0"	Height (Int): 72" Height (Ext): 72"	Weight (Net): 10463 lb Volume (Net): 2.67cu.yd
----------------------------------	------------------------------------	--	--	---

Job Name: 26-2435 838635 Bridge Park Block J Job Location: Dublin, OH Contractor: Contech Engineering Solutions					Plant: Beaver Dam 6/4/2026 8:07:04 AM		Tech: S. Felletter PC: C. Goff				
Structure ID: 20-CS-8											
P2 MH096RS96		MH RISER T/G									
P5) 24" - CASTING HEIGHT - 4" P4) 96" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 17" P3) 96" - MH RISER T/G - 36" P2) 96" - MH RISER T/G - 96" P1) 96" - MH MONOBASE 13F, Custom Ht T/n - 24" 1) CVSTENCILING 1) ASSEMBLY REQUIRED 3) 96" - Conseal CS-102 1.00" 1) 24" - Conseal CS-102 1.00" 3) Hole - 36"						0 lb 10015 lb 8819 lb 21710 lb 17113 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- 57657 lb		Structure Notes: 4" CASTING BY OTHERS LIFT ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE ICAST TO INSTALL THE INTERNALS CONTECH'S LOGO AS WELL AS THE INLET AND OUTLET MUST BE STENCILED ONTO THE STRUCTURE			
Rim: 841.96' Rim to Invert: 8' Slack: 1.044" Sump: 82.044" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	833.96'	270°	268.606"	24" RCP B WALL	30"	Hole 36	36"	36.902"	47.044"	0"	
Invert 2	834.46'	172°	171.112"	24" RCP B WALL	30"	Hole 36	36"	36.902"	53.044"	0"	
Invert 3	835.36'	355°	353.167"	24" RCP B WALL	30"	Hole 36	36"	36.902"	63.844"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 9" Floor Height: 0"	Height (Int): 96" Height (Ext): 96"	Weight (Net): 21710 lb Volume (Net): 5.54cu.yd
----------------------------------	------------------------------------	--	--	---

Job Name: 26-2435 838635 Bridge Park Block J
Job Location: Dublin, OH
Contractor: Contech Engineering Solutions

Plant: Beaver Dam
6/4/2026 8:06:50 AM

Tech: S. Felletter
PC: C. Goff



Structure ID: 20-CS-8

P4 MH096LD17SP

MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G

P5) 24" - CASTING HEIGHT - 4"
P4) 96" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 17"
P3) 96" - MH RISER T/G - 36"
P2) 96" - MH RISER T/G - 96"
P1) 96" - MH MONOBASE 13F, Custom Ht T/n - 24"
1) CVSTENCILING
1) ASSEMBLY REQUIRED
3) 96" - Conseal CS-102 1.00"
1) 24" - Conseal CS-102 1.00"
3) Hole - 36

0 lb
10015 lb
8819 lb
21710 lb
17113 lb
0 lb
0 lb
0 lb
0 lb
0 lb

57657 lb

Structure Total:

Structure Notes:
4" CASTING BY OTHERS

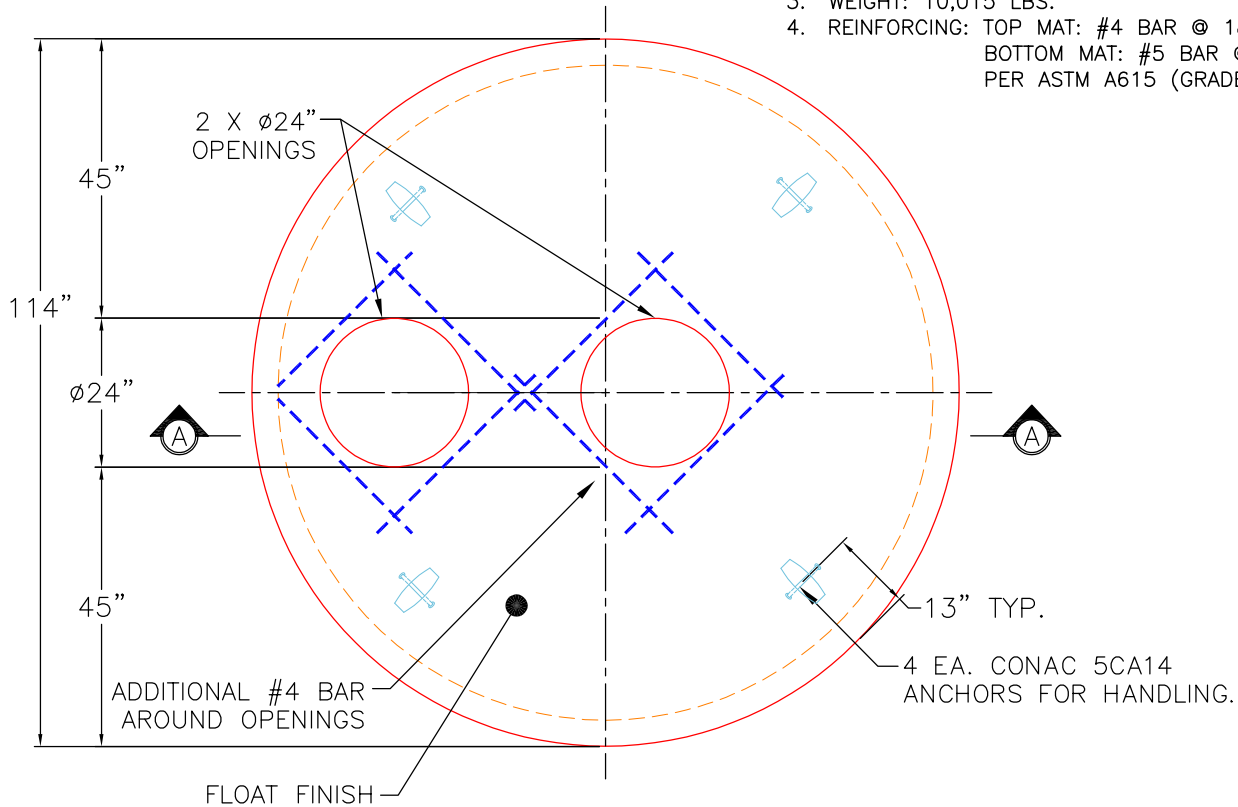
LIFT ANCHORS TO BE INSTALLED
ON THE OUTSIDE OF THE STRUCTURE

ICAST TO INSTALL THE INTERNALS

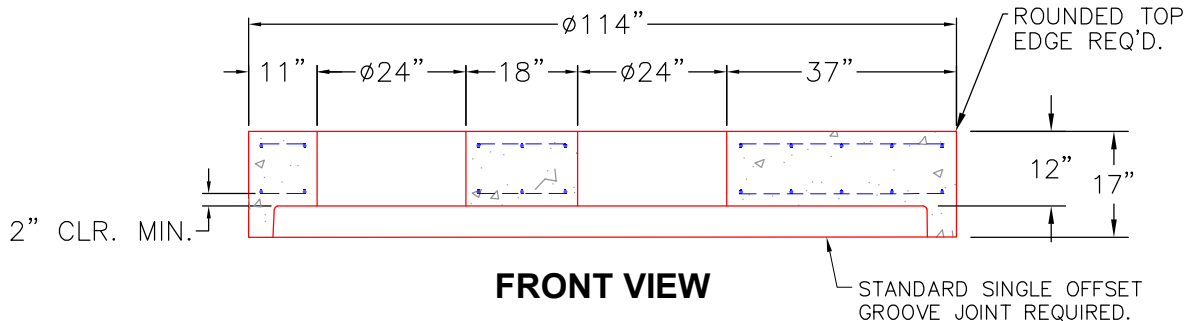
CONTECH'S LOGO AS WELL AS THE
INLET AND OUTLET MUST BE
STENCILED ONTO THE STRUCTURE

GENERAL NOTES:

1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE 5,000 PSI AT 28 DAYS.
3. WEIGHT: 10,015 LBS.
4. REINFORCING: TOP MAT: #4 BAR @ 18" C/C E.W.
BOTTOM MAT: #5 BAR @ 12" C/C E.W.
PER ASTM A615 (GRADE 60)



PLAN VIEW



FRONT VIEW

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 9"

Height (Ext): 17"

Weight (Net): 10015 lb
Volume (Net): 2.56cu.yd

Job Name: 25-2898 - Hunter's Ridge Ph.1
Job Location: Owensboro, KY
Contractor: Ernie Davis & Sons Mechanical, Inc.

Plant: 100
5/29/2026 8:41:16 AM

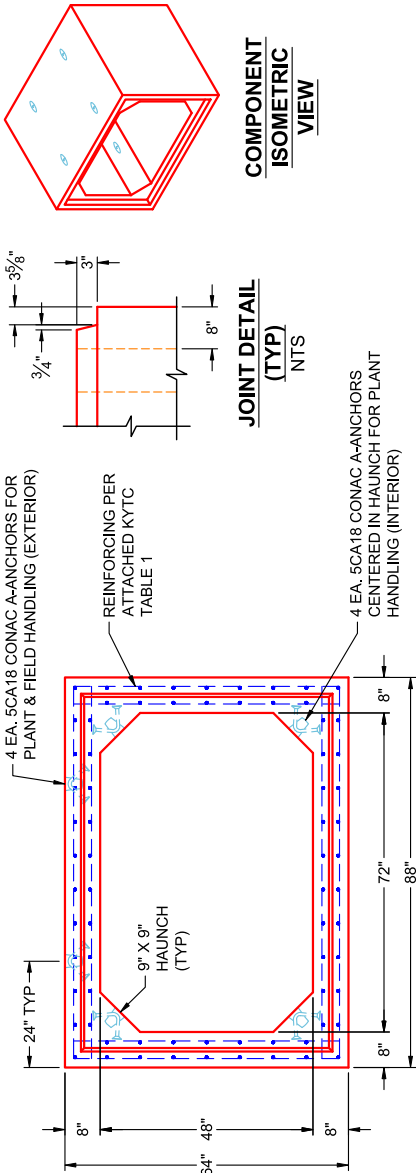
Tech: Jared - A
PC: A. Chambers



Structure ID: BC 6 x 4 (Sec F)

P1 BC048072-08WLF-9H

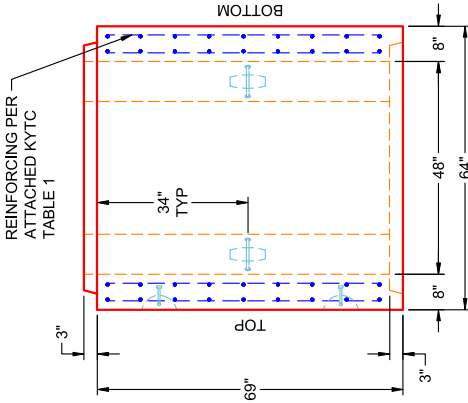
BOX CULVERT (08W/08F/08T) G/T



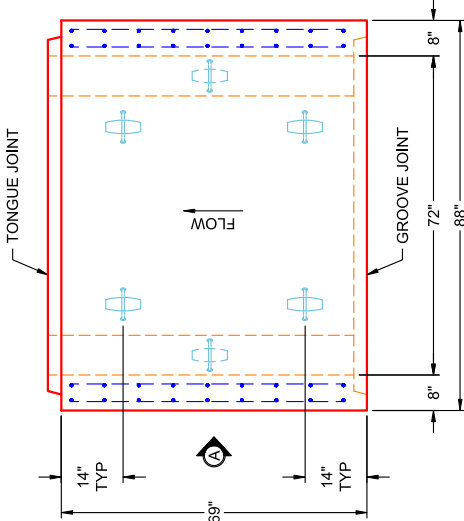
COMPONENT
ISOMETRIC
VIEW

JOINT DETAIL
(TYP)
NTS

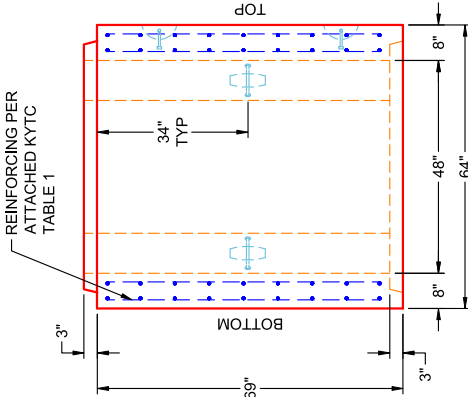
END VIEW
TYPICAL



VIEW B
SEC F
(UPRIGHT IN MOLD)



PLAN VIEW
SEC F
(UPRIGHT IN MOLD)



VIEW A
SEC F
(UPRIGHT IN MOLD)

- GENERAL NOTES:**
- PER SECTION 605 OF KYTC STANDARD SPECS FOR ROAD & BRIDGE CONSTRUCTION
 - LOAD REQUIREMENTS: KY-HL93 (KY TABLE 1)
 - REINFORCEMENT PER ATTACHED KYTC TABLE 1
 - COVER DEPTH: 0' - 4"
 - CONCRETE: 5,000 PSI AT 28 DAYS
 - JOINT SEALANT: 1" BUTYL MASTIC (CS-102) EXTERIOR JOINT WRAP: 12" WIDE (CS-212)
 - WEIGHT: 6' X 4' RCBC = 2,354 LBS / LF (5'-9" LONG SECTION = 13,537 LBS)

PRODUCTION WORK ORDER

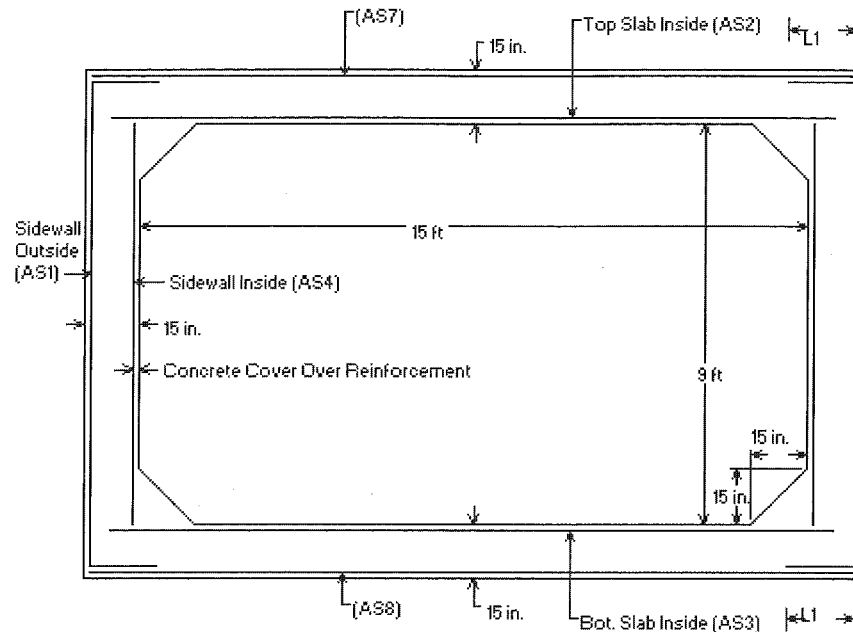


- QUALITY CONTROL CHECKLIST
- ☐ ALL DIMENSIONS CORRECT.
 - ☐ LIFTERS INSTALLED INSIDE.
 - ☐ RECESS WITH HAUNCHES CORRECT.
 - ☐ REINFORCING CORRECT.
 - ☐ SURFACE QUALITY ACCEPTABLE.
 - ☐ LIFTERS INSTALLED OUTSIDE.
 - ☐ PRODUCT SQUARE.

PRODUCT I.D.: BC048072-08WLF-9H
PRODUCT VIEW: RIGHT SIDE UP
PLANT: BEAVER DAM, KY
WEIGHT: 13,537 LBS
TOP SECTION JOINT: TONGUE
BASE SECTION JOINT: GROOVE
QC CHECK INITIALS:

DESCRIPTION: 72" X 48" X 69" BOX CULVERT (8" WALLS & 9" HAUNCH)
CUSTOMER: ERNIE DAVIS & SONS MECHANICAL, INC.
PROJECT: HUNTER'S RIDGE PH 1
STRUCTURE: BC 6 X 4 (SEC F)
ORDER NO: 25-2898
PE: J.H. ROSS
DRAWING: K. CARDWELL
DATE: 05/29/26
SCALE: NTS
PG. 1 OF 1

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

Notes:

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

KY Table 1

Precast Culvert KYHL-93 Design Table

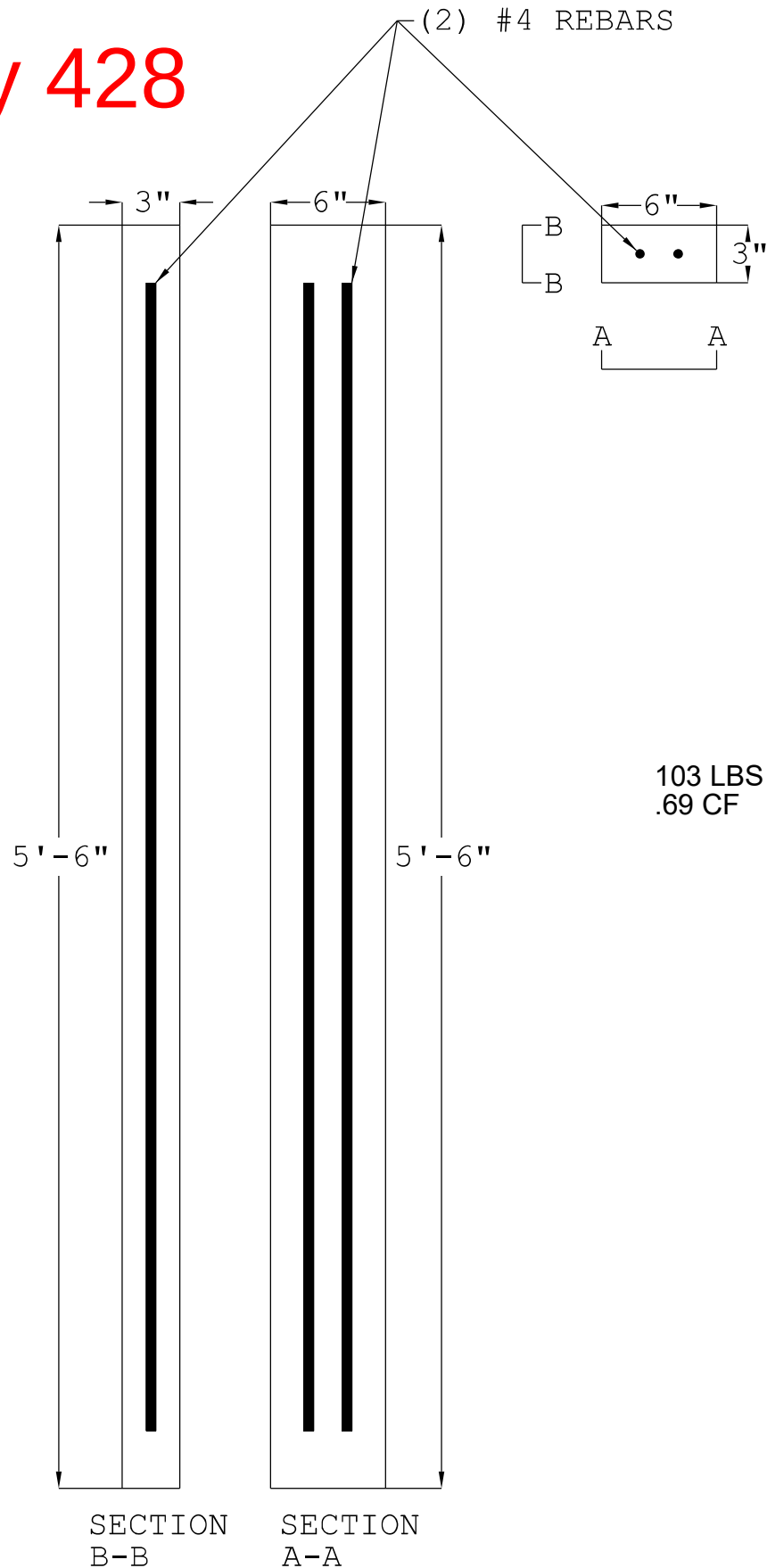
Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
6x4x7	0<2*	0.202	0.421	0.266	0.168	0.192	0.168	0.192	0.192
	2<3	0.251	0.368	0.288	0.168	0.168	0.168		
	3-5	0.19	0.271	0.24	0.168	0.168	0.168		
	10	0.168	0.228	0.234	0.168	0.168	0.168		
	15	0.216	0.306	0.313	0.168	0.168	0.168		
	20	0.275	0.391	0.398	0.168	0.168	0.168		
	25	0.338	0.479	0.487	0.168	0.168	0.168		
	30	0.404	0.571	0.579	0.168	0.168	0.168		
	35	0.473	0.667	0.675	0.168	0.168	0.168		
*top slab 8"									

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
6x5x7	0<2*	0.192	0.449	0.291	0.168	0.192	0.168	0.192	0.192
	2<3	0.22	0.398	0.316	0.168	0.168	0.168		
	3-5	0.168	0.294	0.262	0.168	0.168	0.168		
	10	0.168	0.243	0.252	0.168	0.168	0.168		
	15	0.188	0.326	0.336	0.168	0.168	0.168		
	20	0.238	0.417	0.427	0.168	0.168	0.168		
	25	0.291	0.512	0.522	0.168	0.168	0.168		
	30	0.347	0.611	0.622	0.168	0.168	0.168		
	35	0.406	0.714	0.725	0.168	0.168	0.168		
*top slab 8"									

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
6x6x7	0<2*	0.192	0.47	0.311	0.168	0.192	0.168	0.192	0.192
	2<3	0.195	0.421	0.337	0.168	0.168	0.168		
	3-5	0.168	0.311	0.277	0.168	0.168	0.168		
	10	0.168	0.252	0.263	0.168	0.168	0.168		
	15	0.168	0.338	0.349	0.168	0.168	0.168		
	20	0.212	0.432	0.444	0.168	0.168	0.168		
	25	0.259	0.531	0.543	0.168	0.168	0.168		
	30	0.308	0.634	0.647	0.168	0.168	0.168		
	35	0.359	0.741	0.755	0.168	0.168	0.168		
*top slab 8"									

ALCOA CONCRETE LOGS

Quantity 428



Job Name: 25-2023 - Guthrie KY. Convenience Store Job Location: Guthrie, KY Contractor: Core & Main LP					Plant: 100 6/1/2026 5:37:22 PM		Tech: Jared - F PC: T. Lewis				
Structure ID: OCS											
P1		BX3636-08BAVF		BOX BASE 8inW, 8inF, Variable Ht F/n							
P3) 24" - CASTING HEIGHT - 0" P2) 36" x 36" - CB FLAT TOP 8"W w/24"Hole F/F - 6" P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 32" 1) CASTING - JBS 2072 F/G 1) 36" x 36" - Conseal CS-102 1.00" 1) 24" - Conseal CS-102 1.00" 1) Hole - 24 1) Hole - 7 1) Weir n/n - 24"x8"					0 lb 1134 lb 5138 lb 250 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 6521 lb		Structure Notes: 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,500 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING BY ICAST (JBS 2072 F/G CAST-IN, FLANGE UP). REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W. - WALLS (As .12) #5 BARS AT 12" C.C.E.W. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.				
Rim: 549.67'		Rim to Invert: 3.17'		Slack: 0.04"		Sump: 0"		Step Position:			
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	546.5'	0°	26"	18" HDPE	21.2"	Hole 24	24"	24"	-1.625"	0"	
Invert 2	546.5'	180°	26"	7" Orifice	7"	Hole 7	7"	7"	0"	0"	
Invert 3	548.5'	180°	26"	24" x 8" Weir	24" x 8"	Weir 24"x8"	24" x 8"	24"	24"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

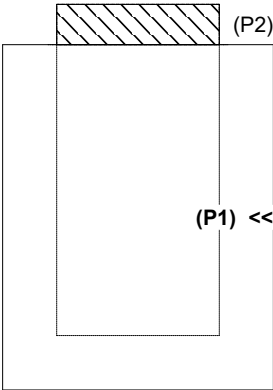
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 32" Height (Ext): 40"	Weight (Net): 5138 lb Volume (Net): 1.31cu.yd
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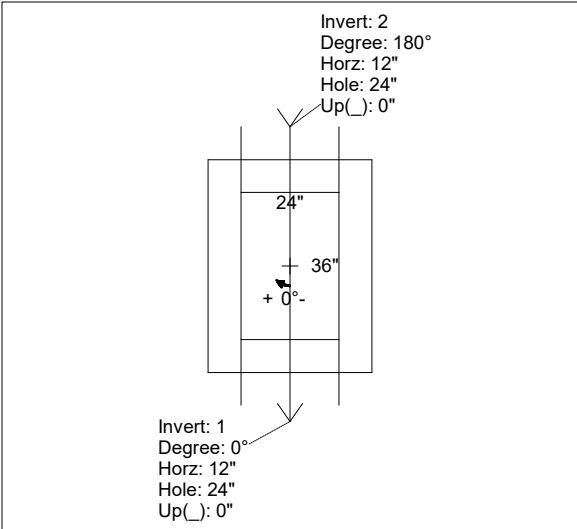
Job Name: 25-4508 - Georgetown Commons Target Job Location: Georgetown, KY Contractor: Winwater Hartford KY Co.					Plant: 100 5/28/2026 11:25:29 AM		Tech: Jared - F PC: A. Chambers			
Structure ID: 4 (7)										
P1 BX2436-08BVF		BOX BASE 8inW, 8inF, Variable Ht F/n								
P2) 24" x 36" - CASTING HEIGHT - 6" P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 43" 1) CASTING - HOE 470 SET LV (F/G/H) 1) 24" x 36" - Conseal CS-102 1.00" 2) Hole - 24"					0 lb 5328 lb 394 lb 0 lb 0 lb ----- 0 lb Structure Total: 5722 lb		Structure Notes: 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS AND NO INVERT CHANNEL. 4. CASTING BY ICAST (HOE 470 SET LV (F/G/H)). REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .12) #5 BARS AT 12" C.C.E.W. - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.			
Rim: 871' Rim to Invert: 4' Slack: 0.625" Sump: 1.625" Step Position:										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	867'	0°	20"	18" HDPE	21.2"	Hole 24	24"	24"	0"	0"
Invert 2	867'	180°	20"	18" HDPE	21.2"	Hole 24	24"	24"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



(P2)

(P1) <<

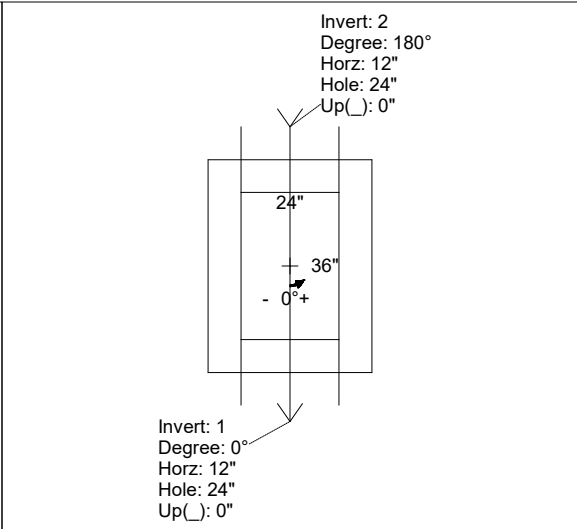
RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 2
Degree: 180°
Horz: 12"
Hole: 24"
Up(): 0"

Invert: 1
Degree: 0°
Horz: 12"
Hole: 24"
Up(): 0"

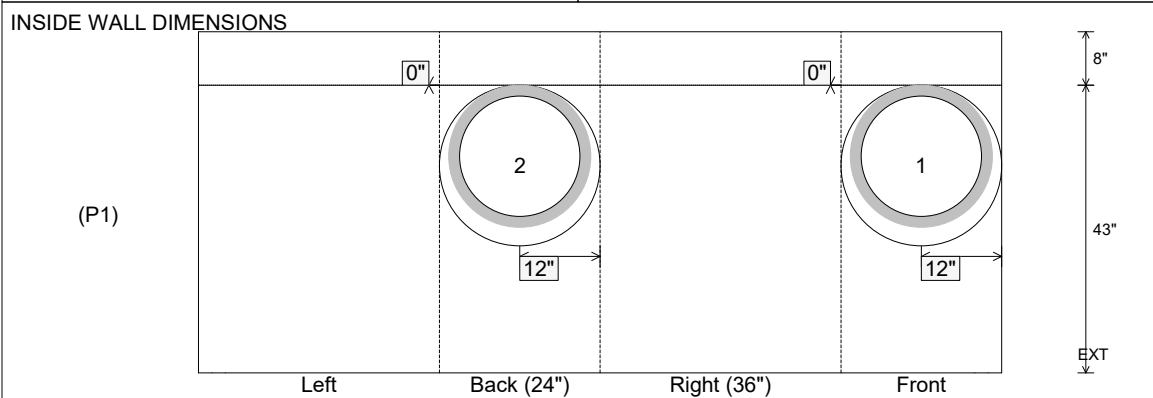
UPSIDE-DOWN VIEW (int. dimensions)



Invert: 2
Degree: 180°
Horz: 12"
Hole: 24"
Up(): 0"

Invert: 1
Degree: 0°
Horz: 12"
Hole: 24"
Up(): 0"

INSIDE WALL DIMENSIONS



(P1)

Left Back (24") Right (36") Front

8" 43" EXT

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 43" Height (Ext): 51"	Weight (Net): 5328 lb Volume (Net): 1.36cu.yd
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Job Name: 23-2404 Hampton Hills (Phase 1)

Job Location: Richmond, KY

Contractor: Seven Earthmovers LLC

Plant: 100

5/19/2026 12:59:34 PM

Tech: J. Horsley

PC: C. Golf

INFRASTRUCTURE

ICAST

PRECAST

Structure ID: BASIN C1 - OCS

P1 BX4848-08BAVF

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

P2) 48" x 48" - CASTING HEIGHT - 1"

P1) 48" x 48" - BOX BASE 8inW, 8inF, Variable Ht F/n - 35"

1) 48" x 48" - Conseal CS-102 1.00"

1) Hole - 30

1) Hole - 6

0 lb

7519 lb

0 lb

0 lb

0 lb

Structure Total: 7519 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.

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

3. CASTING/BAR GRATE SUPPLIED BY OTHERS.

REINFORCING PER ASTM A615 (GRADE 60).

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

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

Rim: 871'

Rim to Invert: 3'

Slack: 0"

Sump: 0"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	868'	0°	32"	24" HDPE	27.8"	Hole 30	30"	30"	-1.875"	0"
Invert 2	868'	270°	32"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6"	-0.375"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

(P2)

(P1) <<

48"

48"

+ 0°-

Invert: 1

Degree: 0°

Horz: 24"

Hole: 30"

Up(): -1.875"

48"

48"

Invert: 2

Degree: 270°

Horz: 24"

Hole: 6"

Up(): -0.375"

Invert: 2

Degree: 270°

Horz: 24"

Hole: 6"

Up(): -0.375"

INSIDE WALL DIMENSIONS

(P1)

-0.375"

24"

Left

Back (48")

-1.875"

24"

Right (48")

1

Front

8"

35"

EXT

Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 8"

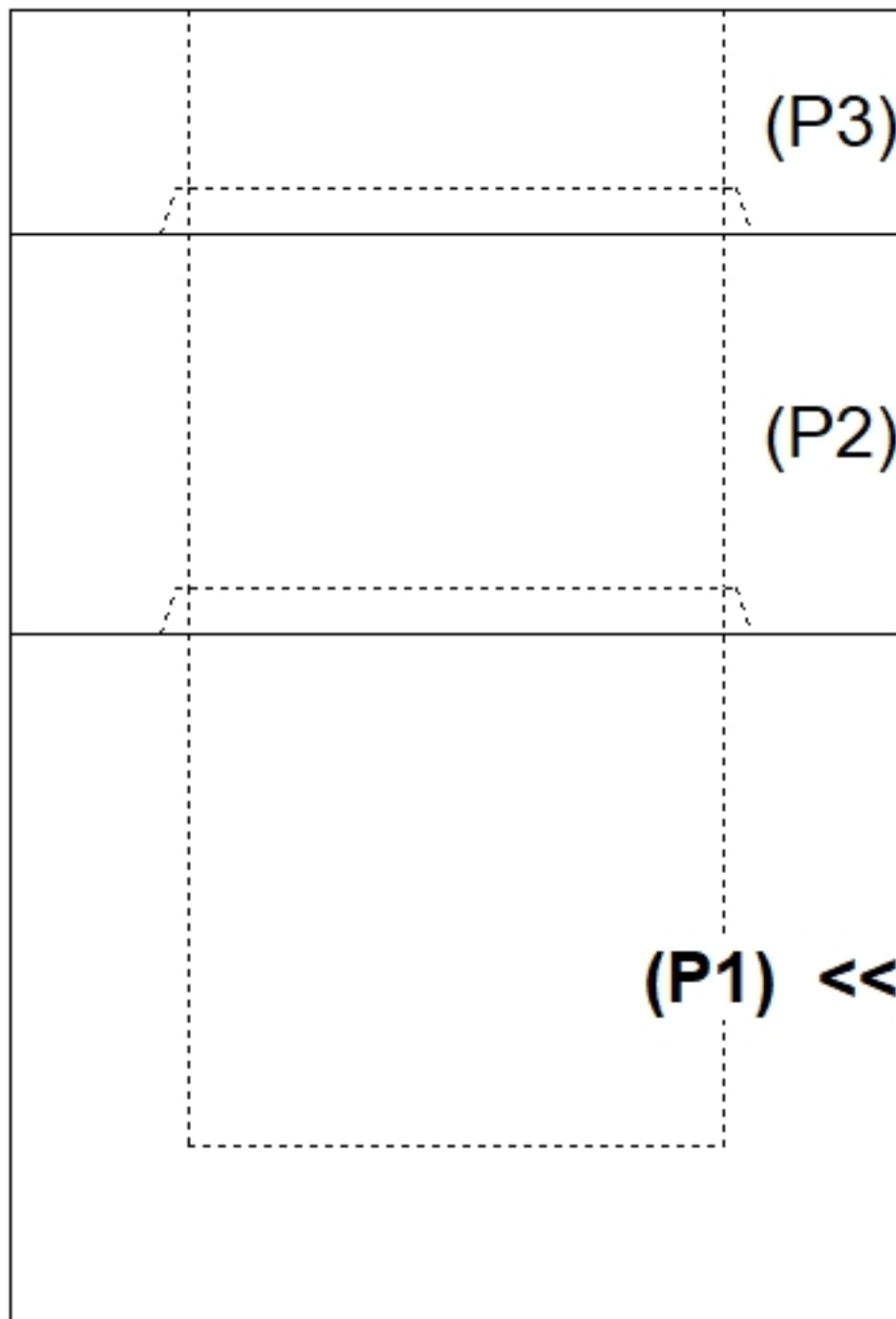
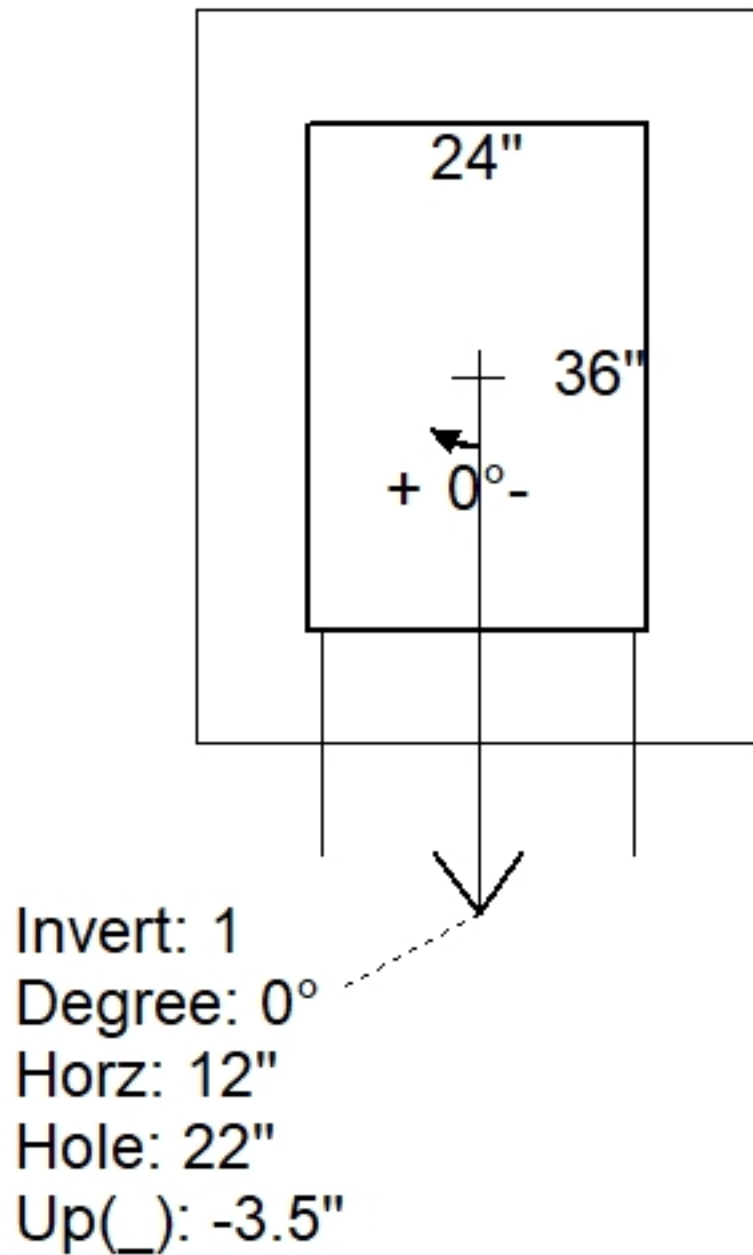
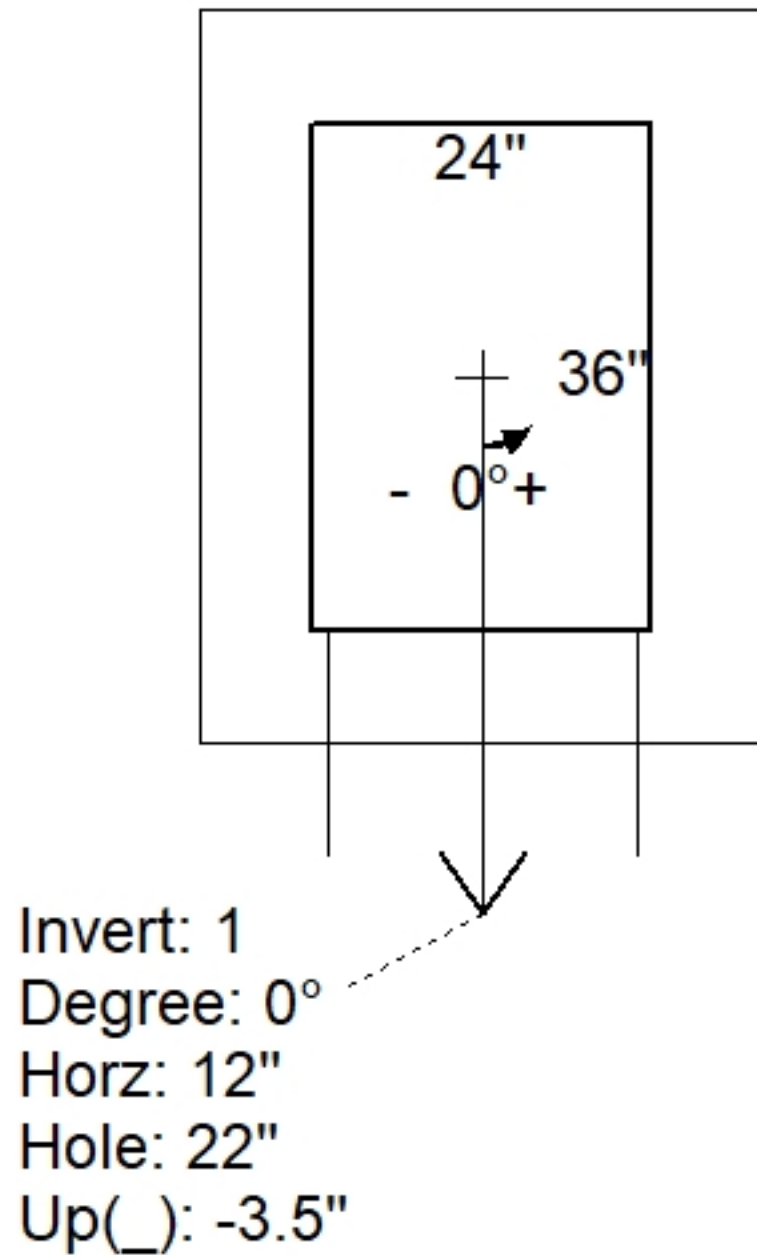
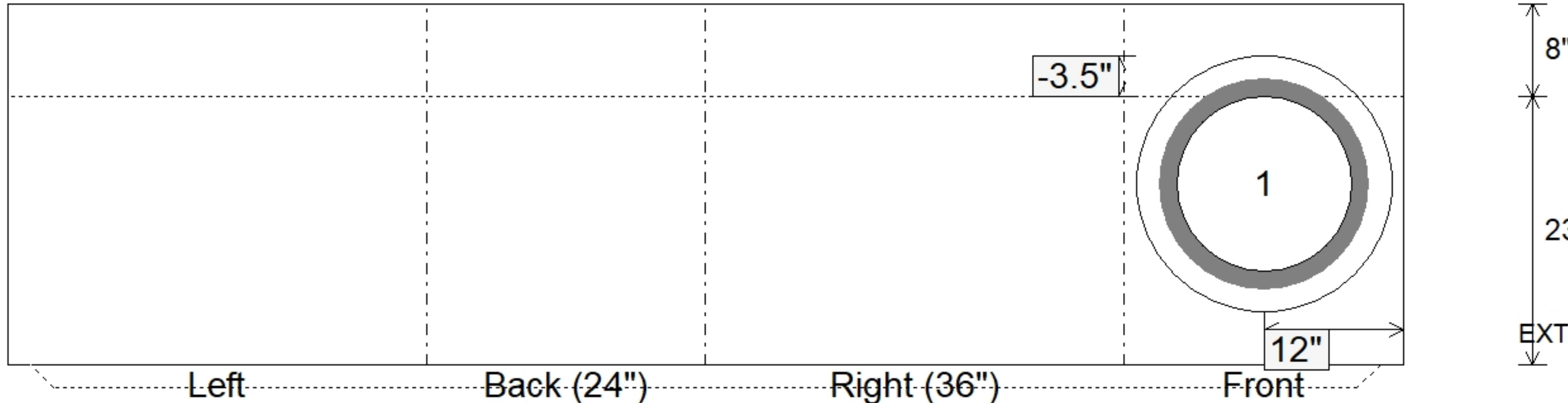
Floor Height: 8"

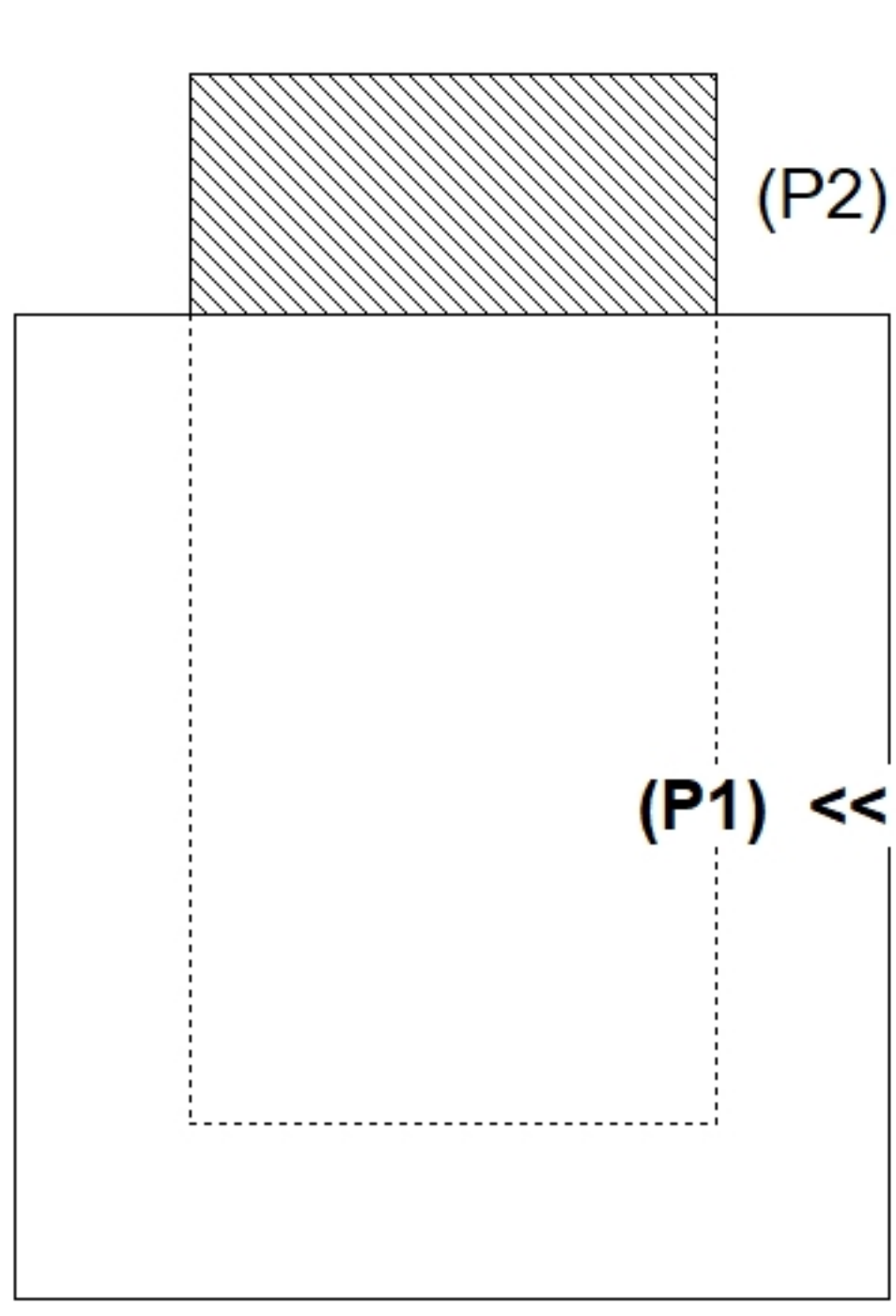
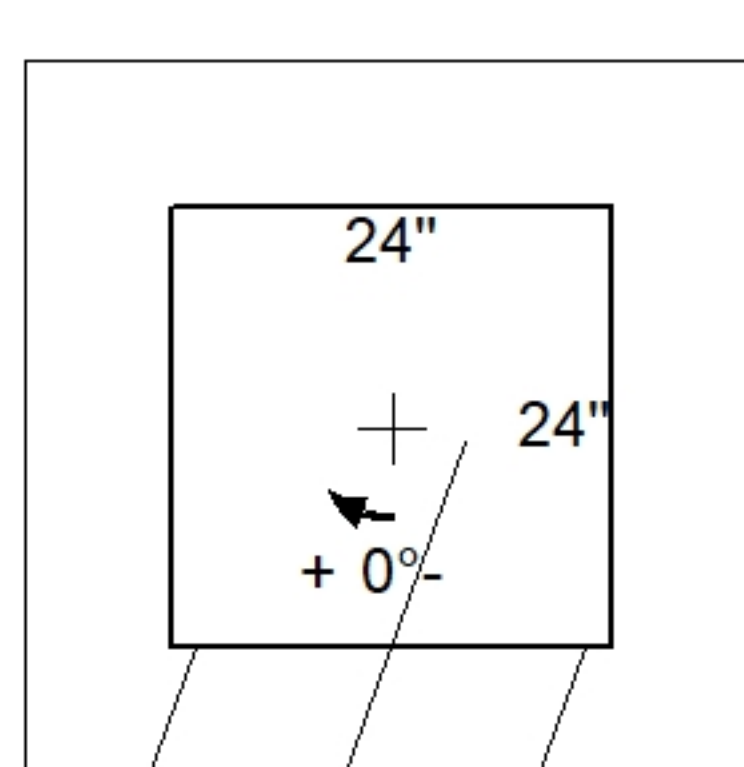
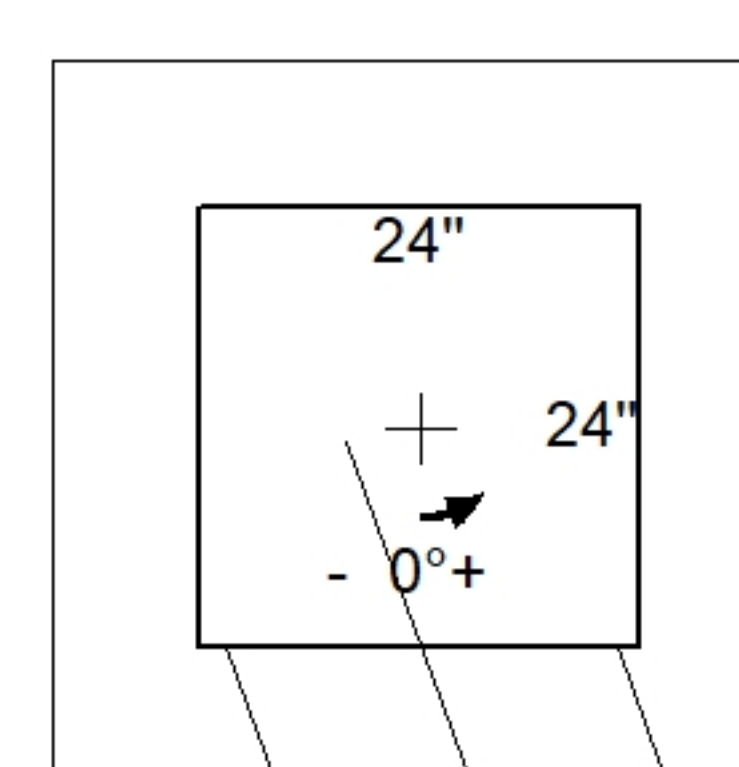
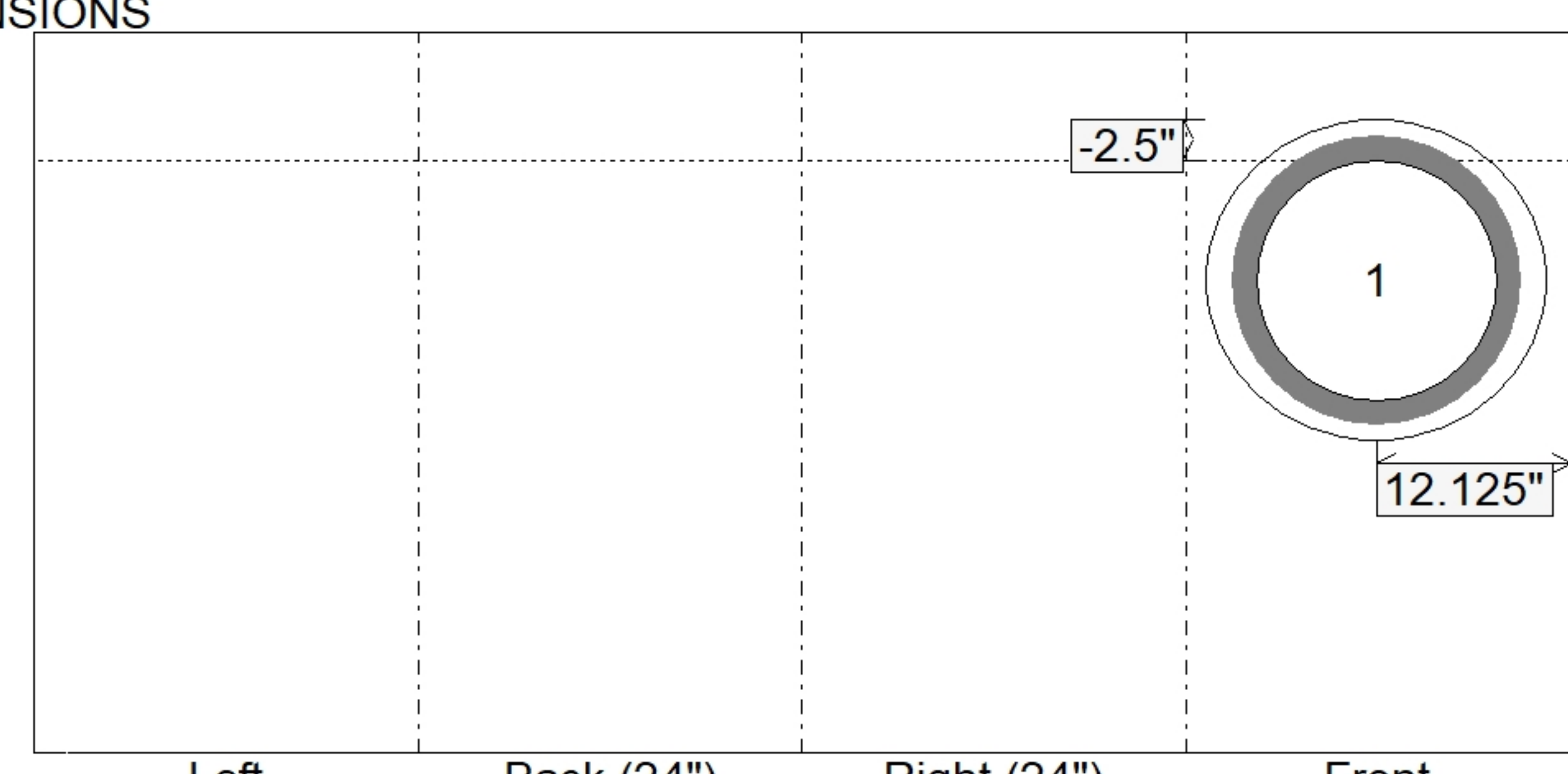
Height (Int): 35"

Height (Ext): 43"

Weight (Net): 7519 lb

Volume (Net): 1.92cu.yd

Job Name: 23-2404 Hampton Hills (Phase 1) Job Location: Richmond, KY Contractor: Seven Earthmovers LLC					Plant: 100 5/19/2026 12:59:23 PM		Tech: J. Horsley PC: C. Golf				
Structure ID: CBI-F1											
P1		BX2436-08BVF			BOX BASE 8inW, 8inF, Variable Ht T/n						
P3) 24" x 120" - CB INLET KY A 10' TOP LEFT F/G - 10" P2) 24" x 120" - CB INLET KY A 10' BOTTOM LEFT T/G - 18" P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 23" 1) CASTING - HOE KY-206 F/C (KY CBI A) 1) 24" x 36" - Conseal CS-102 1.00" 1) Hole - 22					3400 lb 5270 lb 3488 lb 206 lb 0 lb 0 lb ----- Structure Total: 12364 lb		Structure Notes: 1. PER KYTC CBI A / ASTM C913 SPEC'S. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING (HOE KY-206) TO BE CAST INTO TOP PHASE. REINFORCING PER ASTM AS615 (GRADE 60). - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W. - BASE WALLS (As .31) #5 BARS AT 12" C.C.E.W. - BASE FLOOR (As .31) #5 BARS AT 12" C.C.E.W.				
Rim: 907.39'		Rim to Invert: 4.25'		Slack: 0"		Sump: 0"		Step Position:			
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	903.14'	0°	20"	15" ADS N-12	18"	Hole 22	22"	22"	-3.5"	0"	
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
					RIGHT-SIDE UP VIEW (int. dimensions)  UPSIDE-DOWN VIEW (int. dimenions) 						
(P1) 											
Coating (Int): Coating (Ext):			Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 8" Floor Height: 8"		Height (Int): 23" Height (Ext): 31"		Weight (Net): 3488 lb Volume (Net): 0.89cu.yd		

Job Name: 23-2404 Hampton Hills (Phase 1) Job Location: Richmond, KY Contractor: Seven Earthmovers LLC					Plant: 100 5/19/2026 12:59:21 PM		Tech: J. Horsley PC: C. Golf				
Structure ID: CBI-D1											
P1		BX2424-08BAVF			BOX BASE 8inW, 8inF, Variable Ht F/n						
P2) 24" x 24" - CASTING HEIGHT - 11" P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 37" 1) CASTING - HOE KY-465 SET (CBI TY F) 1) 24" x 24" - Conseal CS-102 1.00" 1) Hole - 20					0 lb 4029 lb 465 lb 0 lb 0 lb ----- Structure Total: 4494 lb		Structure Notes: 1. PER KYTC CBI F / ASTM C913 SPEC'S. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE KY-465 F/G/H) SHIPPED LOOSE. REINFORCING PER ASTM AS615 (GRADE 60). - BASE WALLS (As .31) #5 BARS AT 12" C.C.E.W. - BASE FLOOR (As .31) #5 BARS AT 12" C.C.E.W.				
Rim: 885.73'		Rim to Invert: 4'		Slack: 0"		Sump: 0"		Step Position:			
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	881.73'	20°	23"	15" ADS N-12	18"	Hole 20	20"	21.284"	-2.5"	-4"	
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
					RIGHT-SIDE UP VIEW (int. dimensions)  Invert: 1 Degree: 20° Horz: 12.125" Hole: 20" Up(): -2.5" UPSIDE-DOWN VIEW (int. dimenions)  Invert: 1 Degree: 20° Horz: 12.125" Hole: 20" Up(): -2.5"						
INSIDE WALL DIMENSIONS  LeftBack (24")Right (24")Front 8"37"EXT											
Coating (Int): Coating (Ext):			Seam Up: Flat Seam Dn: n/a		Wall Thickness: 8" Floor Height: 8"		Height (Int): 37" Height (Ext): 45"		Weight (Net): 4029 lb Volume (Net): 1.03cu.yd		

Job Name: 23-2404 Hampton Hills (Phase 1) Job Location: Richmond, KY Contractor: Seven Earthmovers LLC				Plant: 100 5/19/2026 12:59:24 PM		Tech: J. Horsley PC: C. Golf		INFRASTRUCTURE ICAST PRECAST		
Structure ID: CBI-H2 P1BX2436-08BVFBOX BASE 8inW, 8inF, Variable Ht T/n										
P4) 24" x 120" - CB INLET KY A 10' TOP LEFT F/G - 10" P3) 24" x 120" - CB INLET KY A 10' BOTTOM LEFT T/G - 18" P2) 24" x 36" - BOX RISER 8inW T/G - 48" P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 26" 1) CASTING - HOE KY-206 F/C (KY CBI A) 1) SNOUT - BMP SNOUT 18F w/ KIT 2) 24" x 36" - Conseal CS-102 1.00" 2) Hole - 22						3400 lb 5270 lb 4387 lb 4049 lb 206 lb 25 lb 0 lb 0 lb Structure Total: 17337 lb		Structure Notes: 1. PER KYTC CBI A / ASTM C913 SPEC'S. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING (HOE KY-206) TO BE CAST INTO TOP PHASE. 4. BMP SNOUT 18F w/KIT. REINFORCING PER ASTM AS615 (GRADE 60). - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W. - BASE WALLS (As .31) #5 BARS AT 12" C.C.E.W. - BASE FLOOR (As .31) #5 BARS AT 12" C.C.E.W.		
Rim: 910.68' Rim to Invert: 5' Slack: 0" Sump: 42" 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) UPSIDE-DOWN VIEW (int. dimenions) INSIDE WALL DIMENSIONS										
(P4) (P3) (P2) (P1) <<		24" + 36" + 0°- 24" + 36" - 0°+ (P1) LeftBack (24")Right (36")Front 8" 26" EXT								
Coating (Int): Coating (Ext):			Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 8" Floor Height: 8"		Height (Int): 26" Height (Ext): 34"		Weight (Net): 4049 lb Volume (Net): 1.03cu.yd	

Job Name: 23-2404 Hampton Hills (Phase 1)

Job Location: Richmond, KY

Contractor: Seven Earthmovers LLC

Plant: 100

5/19/2026 12:59:24 PM

Tech: J. Horsley

PC: C. Golf



Structure ID: CBI-G1

P1 BX2436-08BVF

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

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

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

P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 23"

1) CASTING - HOE KY-206 F/C (KY CBI A)

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

1) Hole - 22

3400 lb

5270 lb

3488 lb

206 lb

0 lb

0 lb

Structure Total: 12364 lb

Structure Notes:

1. PER KYTC CBI A / ASTM C913 SPEC'S.

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

3. CASTING (HOE KY-206) TO BE CAST INTO TOP PHASE.

REINFORCING PER ASTM AS615 (GRADE 60).

- TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.

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

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

Rim: 907.35'

Rim to Invert: 4.25'

Slack: 0"

Sump: 0"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	903.1'	180°	20"	15" ADS N-12	18"	Hole 22	22"	22"	-3.5"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

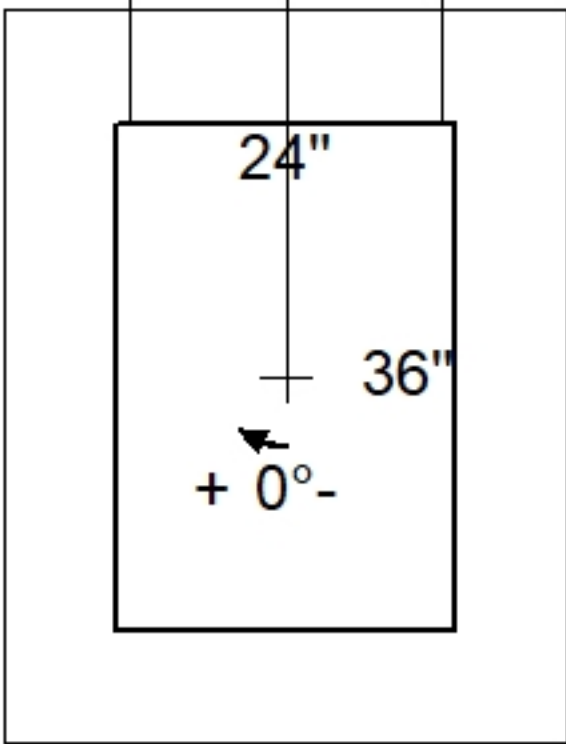
Invert: 1

Degree: 180°

Horz: 12"

Hole: 22"

Up(): -3.5"



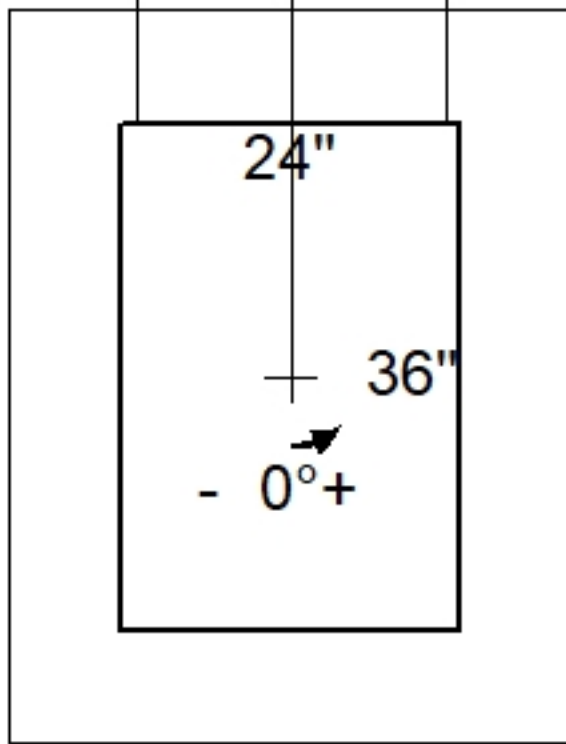
Invert: 1

Degree: 180°

Horz: 12"

Hole: 22"

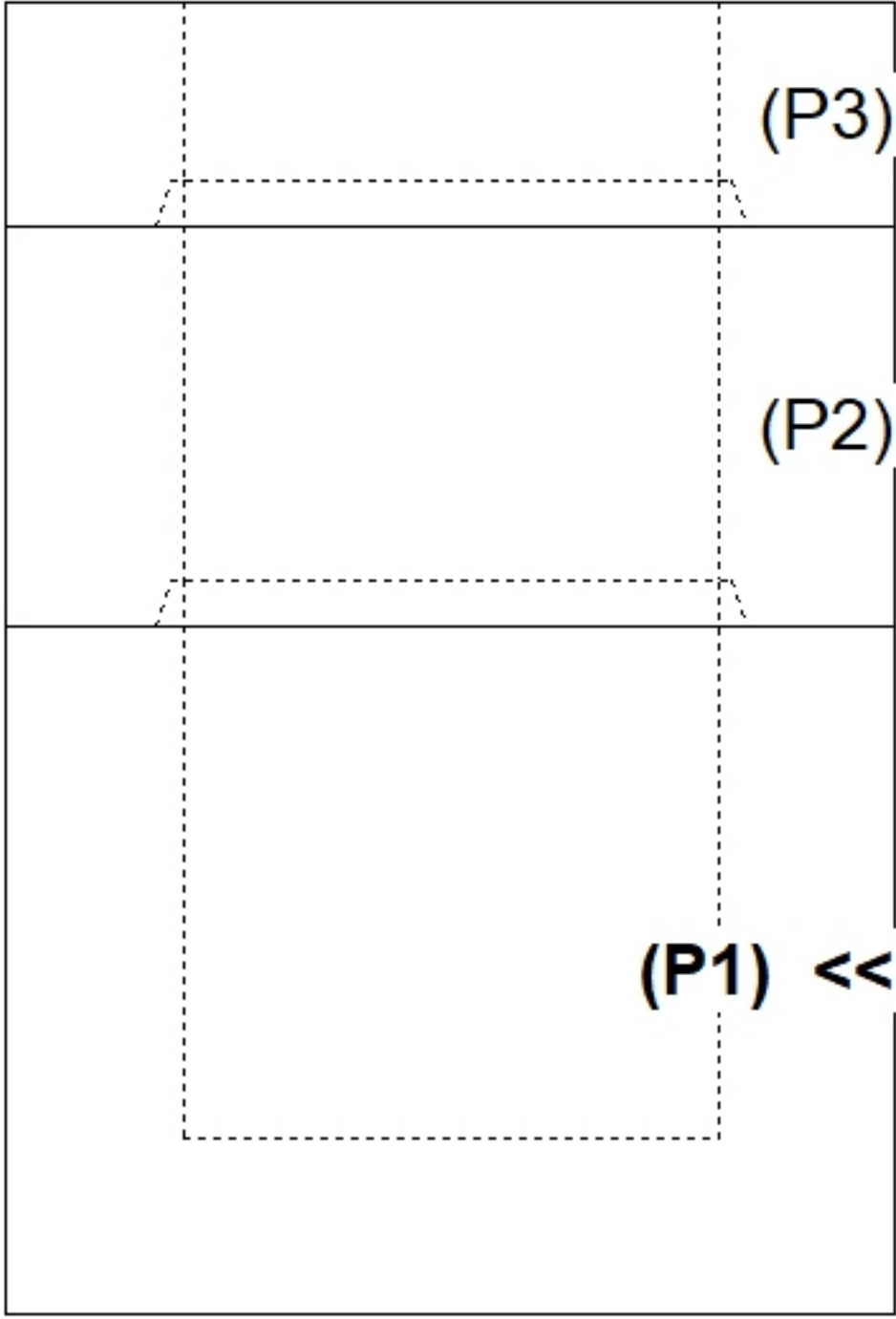
Up(): -3.5"



(P3)

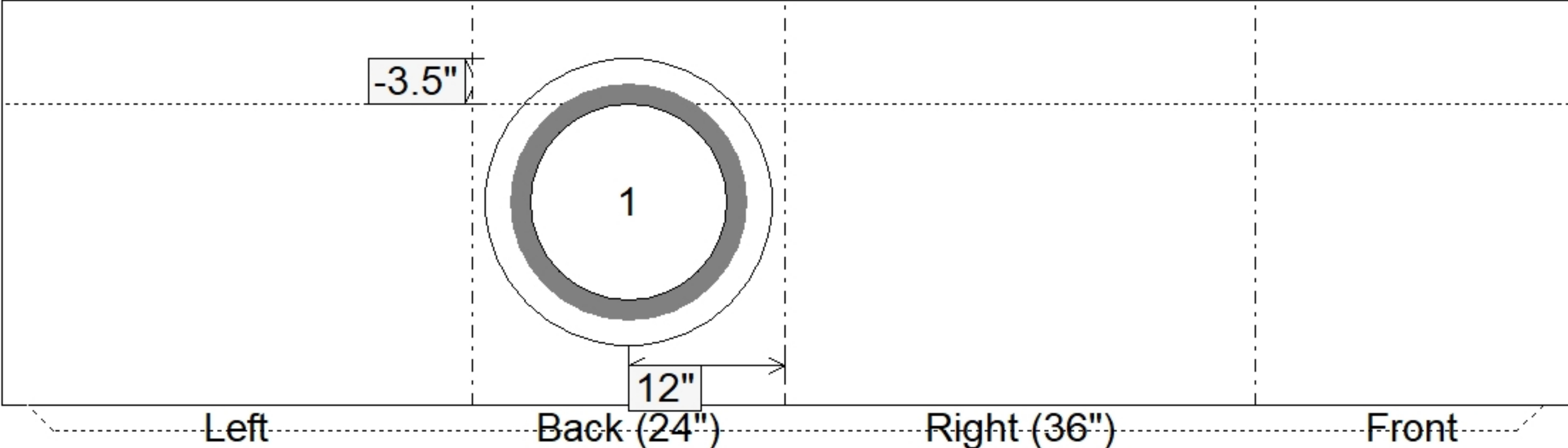
(P2)

(P1) <<



INSIDE WALL DIMENSIONS

(P1)



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

Height (Int): 23"

Height (Ext): 31"

Weight (Net): 3488 lb

Volume (Net): 0.89cu.yd

Job Name: 26-1100 - TVA Shawnee

Job Location: Paducah, KY

Contractor: TVA

Plant: 100

4/27/2026 12:21:03 PM

Tech: Jared - A

PC: A. Chambers



Structure ID: 61100 (3)

P1 BX4848-08BA60

BOX BASE 8inW, 8inF F/n

P3) 32" x 32" - CASTING HEIGHT - 4"

P2) 48" x 48" - BX FLAT LID 8inW w/32"x32" HOLE F/F - 8"

P1) 48" x 48" - BOX BASE 8inW, 8inF F/n - 60"

1) CASTING - JBS 4315 F/G

1) 48" x 48" - Conseal CS-102 1.00"

1) 32" x 32" - Conseal CS-102 1.00"

2) Hole - 2

2) Hole - 8

0 lb

2062 lb

11700 lb

500 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 14262 lb

Structure Notes:

1. PER ASTM C-913 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

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

4. NO STORM INVERT

5. NO STEPS

6. JBS 4315 FRAME & GRATE SUPPLIED BY ICAST

7. INVERTS 1 & 2 OFFSET 3" FROM CENTER (6" CENTER-TO-CENTER)

8. INVERTS 3 & 4 OFFSET 12" FROM CENTER (24" CENTER-TO-CENTER)

Rim: 344.25'

Rim to Invert: 1.67'

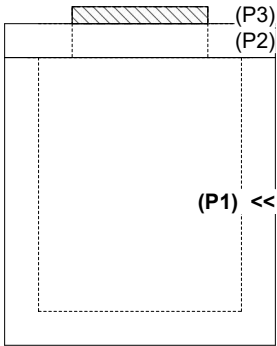
Slack: 0"

Sump: 51.96"

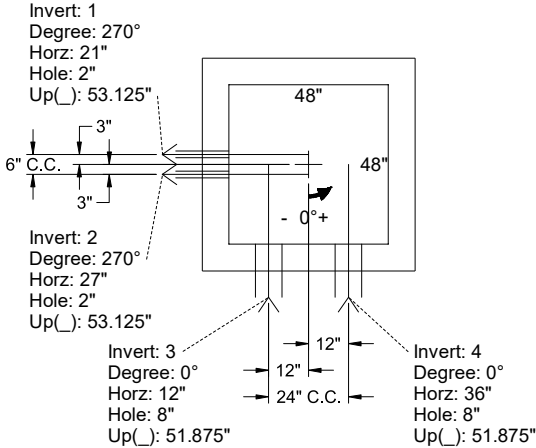
Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	342.68'	270°	29"	2" Orifice	2"	Hole 2	2"	2"	53.125"	-3"
Invert 2	342.68'	270°	35"	2" Orifice	2"	Hole 2	2"	2"	53.125"	3"
Invert 3	342.58'	0°	20"	4" PVC SDR35	4.25"	Hole 8	8"	8"	51.875"	-12"
Invert 4	342.58'	0°	44"	4" PVC SDR35	4.25"	Hole 8	8"	8"	51.875"	12"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

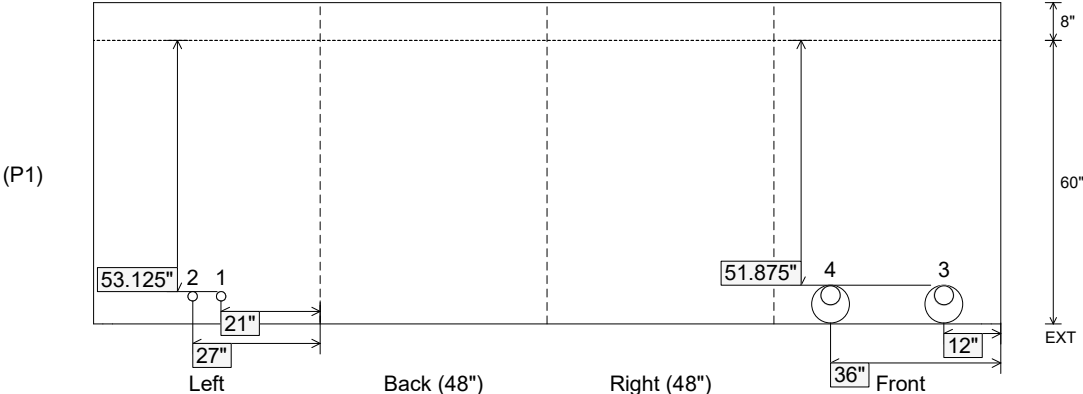
RIGHT-SIDE UP VIEW (int. dimensions)



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): 60"

Height (Ext): 68"

Weight (Net): 11700 lb

Volume (Net): 2.99cu.yd

P1

HWBW24F

24" - HW BW w/FLAT BOTTOM F/F

DIMENSIONS & QUANTITIES									
TYPE	PIPE Ø	A	B	C	D	E	F	G	WEIGHT
BW	24"	4'-0"	6'-0"	3'-8"	3'-0"	3'-0"	8"	8"	3,100 LBS.

ISOMETRIC VIEW

PLAN VIEW

FRONT ELEVATION

24" TO 32" STEPPED HOLE FORMER FOR 24" PIPE
24" TO BE FLUSH WITH FLOOR.

SECTION A-A

FLAT BOTTOM NOT TOE

NOTES:

- CONCRETE: 4500 PSI AT 28 DAYS MIN. STRENGTH.
- REINFORCING: #4 BAR @ 12" C/C E.W.-GRADE 60, (WITH 2" CONCRETE COVER MINIMUM)
- REINFORCING BARS TO BE TACK WELDED OR TIED.

PRODUCTION WORK ORDER	
PRODUCT I.D.: HWBW24F	DESCRIPTION: 24in BW HEADWALL FLAT BOTTOM
PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: STOCK
PLANT: BEAVER DAM, KY.	PROJECT: T.B.D.
WEIGHT: 3,475 LBS.	STRUCTURE ID.: T.B.D.
TOP SECTION JOINT: N/A	SALES ORDER NO: STOCK
BASE SECTION JOINT: N/A	CHECK: B. SMITH
QC CHECK INITIALS:	DRAWING: J. HORSLEY
	DATE: 06/04/24
	SCALE: NTS
	PG. 1 of 1

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



Weight (Net): 1134 lb
Volume (Net): 0.29cu.yd

Job Name: 25-2898 - Hunter's Ridge Ph.1
Job Location: Owensboro, KY
Contractor: Ernie Davis & Sons Mechanical, Inc.

Plant: 100
5/29/2026 8:42:13 AM

Tech: Jared - A
PC: A. Chambers



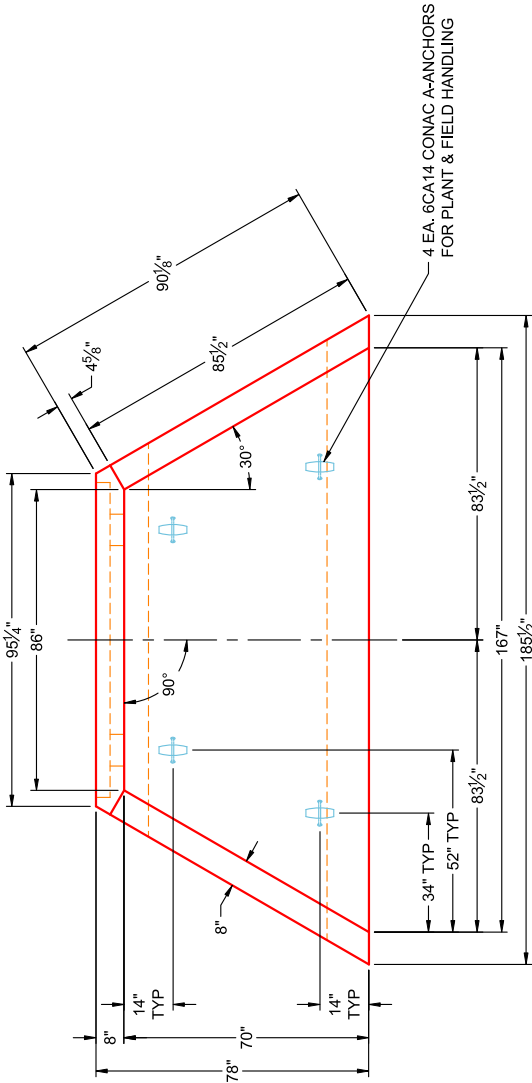
Structure ID: BC 6 x 4 HW (2)

P1 HWCUSTOM

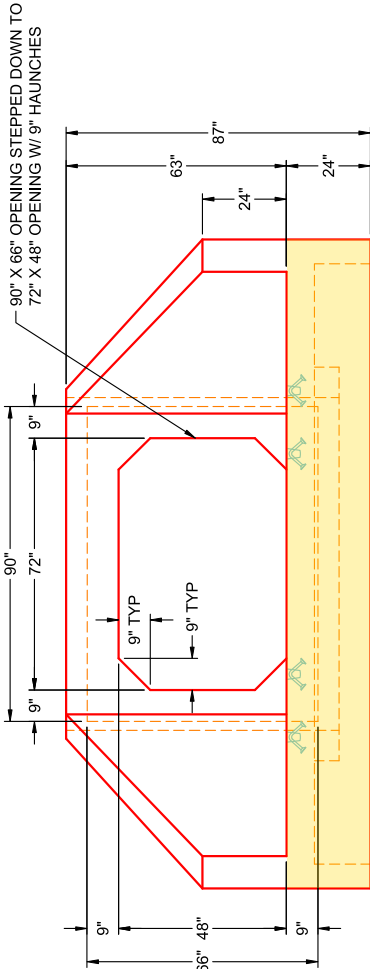
72" x 48" - BOX CULVERT HEADWALL F/F

GENERAL NOTES:

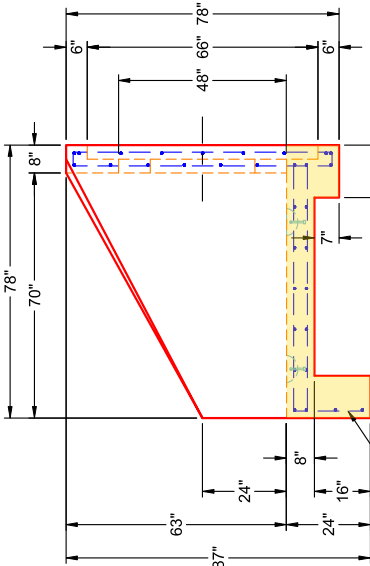
- DRAWING TO BE USED IN CONJUNCTION WITH KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1100-02, RDH-1200-02, & RDH-1300-03
- REINFORCEMENT PER ATTACHED KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1200-02, & RDH-1300-03 - 2" MIN. REBAR CLEARANCE (TYP)
- CONCRETE: 5,000 PSI AT 28 DAYS
- TOTAL WEIGHT: 17,065 LBS
- FIRST POUR: 10,870 LBS
- SECOND POUR: 6,195 LBS



PLAN VIEW
(RIGHT SIDE UP)



FRONT VIEW
(RIGHT SIDE UP)



SIDE VIEW
(RIGHT SIDE UP)

SEE ATTACHED KYTC STANDARD
DRAWINGS FOR REINFORCEMENT
DETAILS

PRODUCTION WORK ORDER



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

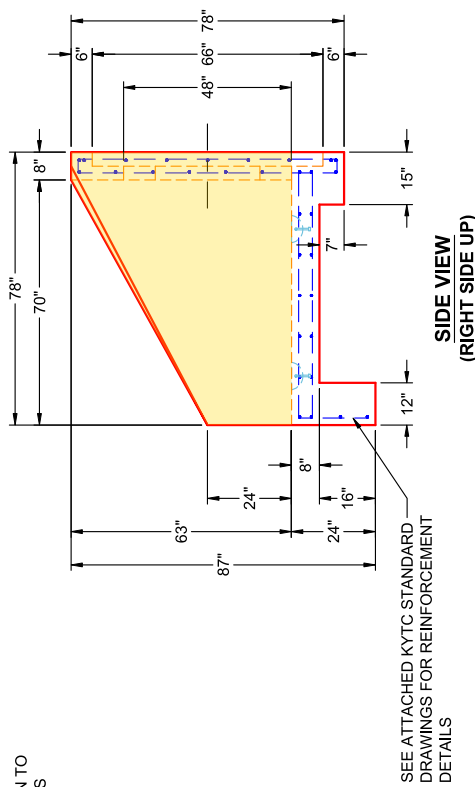
PRODUCT I.D.: HWCUSTOM
PRODUCT VIEW: RIGHT SIDE UP
PLANT: BEAVER DAM, KY
WEIGHT: 17,065 LBS
TOP SECTION JOINT: N / A
BASE SECTION JOINT: N / A
QC CHECK INITIALS:

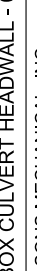
DESCRIPTION: 72" X 48" BOX CULVERT HEADWALL - 0° SKEW
CUSTOMER: ERNIE DAVIS & SONS MECHANICAL, INC
PROJECT: HUNTER'S RIDGE PH 1
STRUCTURE: BC 6 X 4 HW (2)
ORDER NO: 25-2898
PE: J.H. ROSS
DRAWING: K. CARDWELL
DATE: 05/29/26
SCALE: NTS
PG. 1 OF 1

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

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

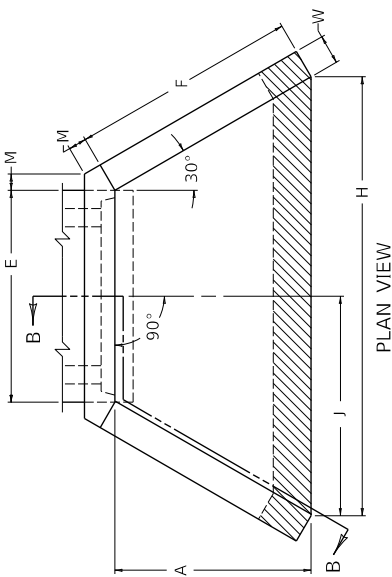
4. TOTAL WEIGHT: 17,065 LBS
- FIRST POUR: 10,870 LBS
- SECOND POUR: 6,195 LBS



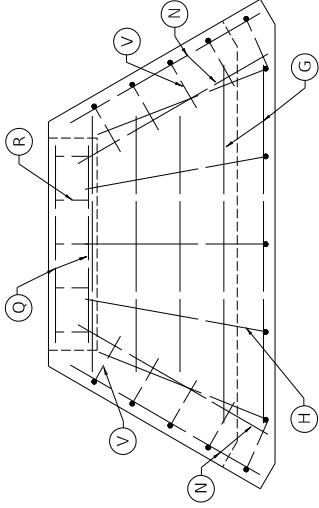
PRODUCTION WORK ORDER		PRODUCT ID.: HWCUSTOM	DESCRIPTION: 72" X 48" BOX CULVERT HEADWALL - 0° SKEW
	QUALITY CONTROL CHECKLIST	PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: ERNIE DAVIS & SONS MECHANICAL, INC
	☐ ALL DIMENSIONS CORRECT. ☐ LIFTERS INSTALLED ☐ OPENING CENTERED. ☐ REINFORCING CORRECT. ☐ SURFACE QUALITY ACCEPTABLE. ☐ EDGES CHAMFERED.	PLANT: BEAVER DAM, KY	PROJECT: HUNTER'S RIDGE PH 1
		WEIGHT: 17,065 LBS	STRUCTURE: BC 6 X 4 HW (2)
		TOP SECTION JOINT: N / A	ORDER NO: 25-2898
		BASE SECTION JOINT: N / A	PE: J.H. ROSS
		QC CHECK INITIALS:	DRAWING: K. CARDWELL
		DATE: 05/29/26	SCALE: NTS PG. 1 OF 1

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

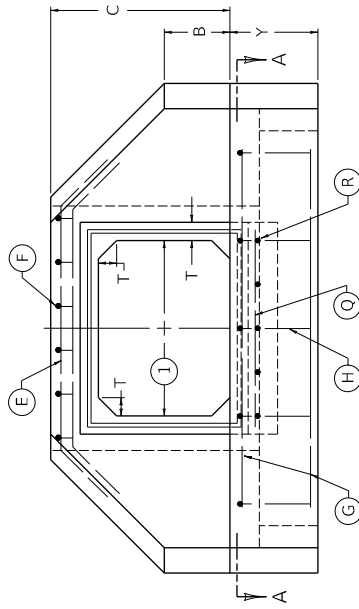
DRAWING SCALE:
1/2" = 1'



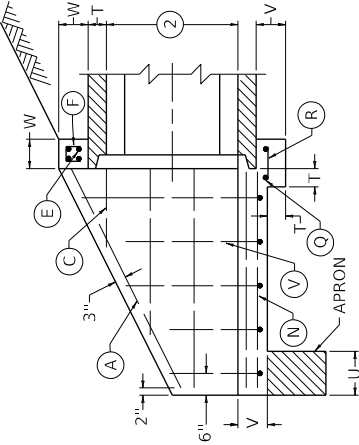
PLAN VIEW



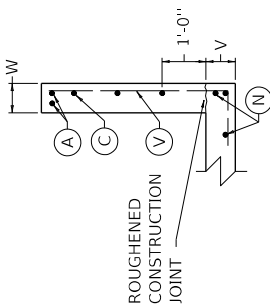
SECTION A-A



FRONT ELEVATION



SECTION B-B



WING SECTION

NOTES

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

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

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

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

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

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

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

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

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

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

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

⑦ POUNDS OF REINFORCING STEEL IN TWO HEADWALLS WITH PAVING.

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

KENTUCKY
DEPARTMENT OF HIGHWAYS

QUANTITIES
3' x 2' - 12' x 12' H-WALLS
PRECAST BOX CULVERTS
0° SKEW

STANDARD DRAWING NO. RDH-1200-02

SUBMITTED: _____ DATE: _____
APPROVED: _____ STATE HIGHWAY ENGINEER _____

Job Name: 26-2231 - Pace Vault
Job Location: Louisville, KY
Contractor: Pace Contracting, LLC

Plant: 100

5/20/2026 12:33:26 PM

Tech: Jared - F

PC: J. Jarvis



Structure ID: QL1

P3 BX048072-06WLD08-SP

CB FLAT TOP 6"W w/30"x30" HATCH F/F

- P4) 30" x 30" - HATCH (CAST FLUSH) - 3"
P3) 48" x 72" - CB FLAT TOP 6"W w/30"x30" HATCH F/F - 8"
P2) 48" x 72" - BOX RISER 6inW F/F - 48"
P1) 48" x 72" - P.I.P. BY OTHERS - BTM SLAB F/n - 0"
1) HATCH (Alum.) - HALLIDAY W1S 30"x30"
2) 48" x 72" - Conseal CS-102 1.00" (Double)
1) 30" x 30" - Conseal CS-102 1.00" (Double)
1) Hole - 0

Structure Total: 9321 lb

100 lb
2779 lb
6380 lb
0 lb
62 lb
0 lb
0 lb
0 lb
0 lb

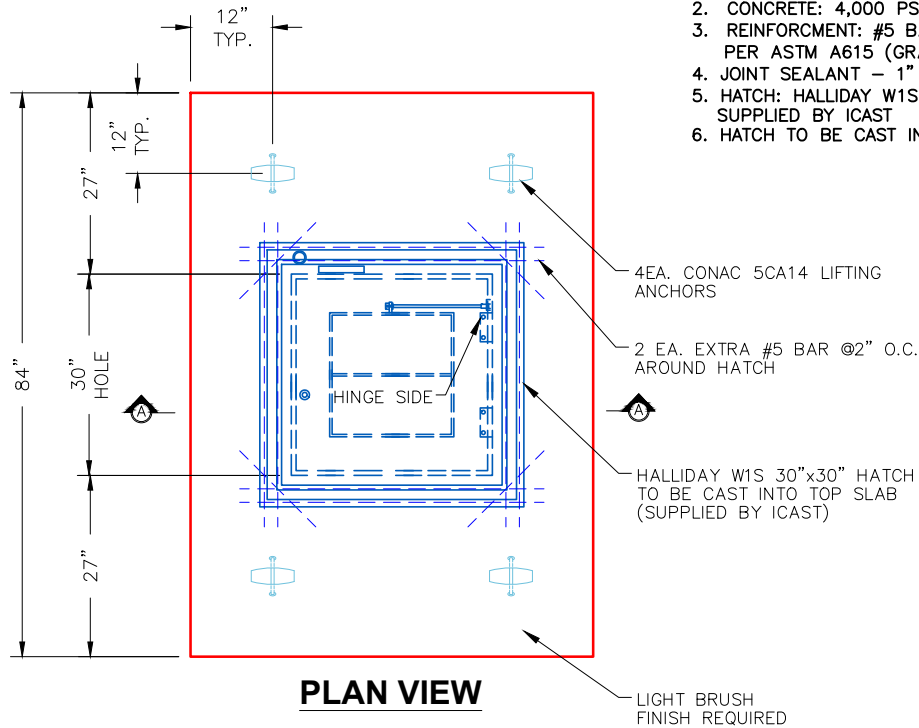
Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO STEPS AND NO INVERT CHANNEL.
4. HATCH SUPPLIED BY ICAST (HALLIDAY W1S 30"x30") - TO BE CAST INTO TOP SLAB.

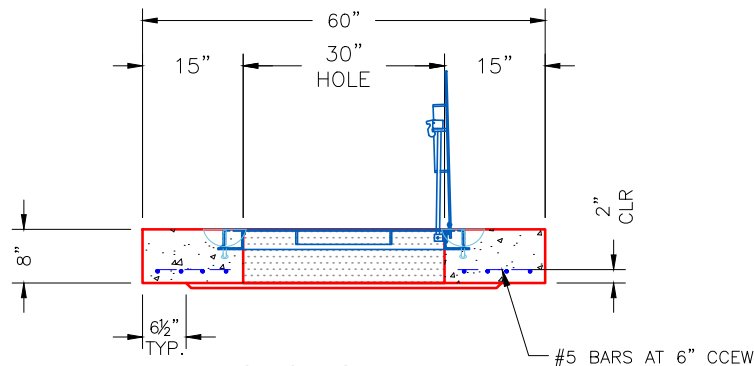
REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- WALLS (As .12) #5 BARS AT 12" C.C.E.W.

GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCEMENT: #5 BAR @ 6" C.C.E.W. PER ASTM A615 (GRADE 60).
4. JOINT SEALANT - 1" CS-102- DOUBLE
5. HATCH: HALLIDAY W1S 30" X 30" HATCH SUPPLIED BY ICAST
6. HATCH TO BE CAST INTO TOP OF SLAB.



PLAN VIEW



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

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 8"

Weight (Net): 2779 lb
Volume (Net): 0.71cu.yd

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

Plant: 100

5/5/2026 8:17:54 PM

Tech: Jared - F
PC: E. Bradley



Structure ID: METER VAULT - 11

P2 BX4884-06LD08-SP

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

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

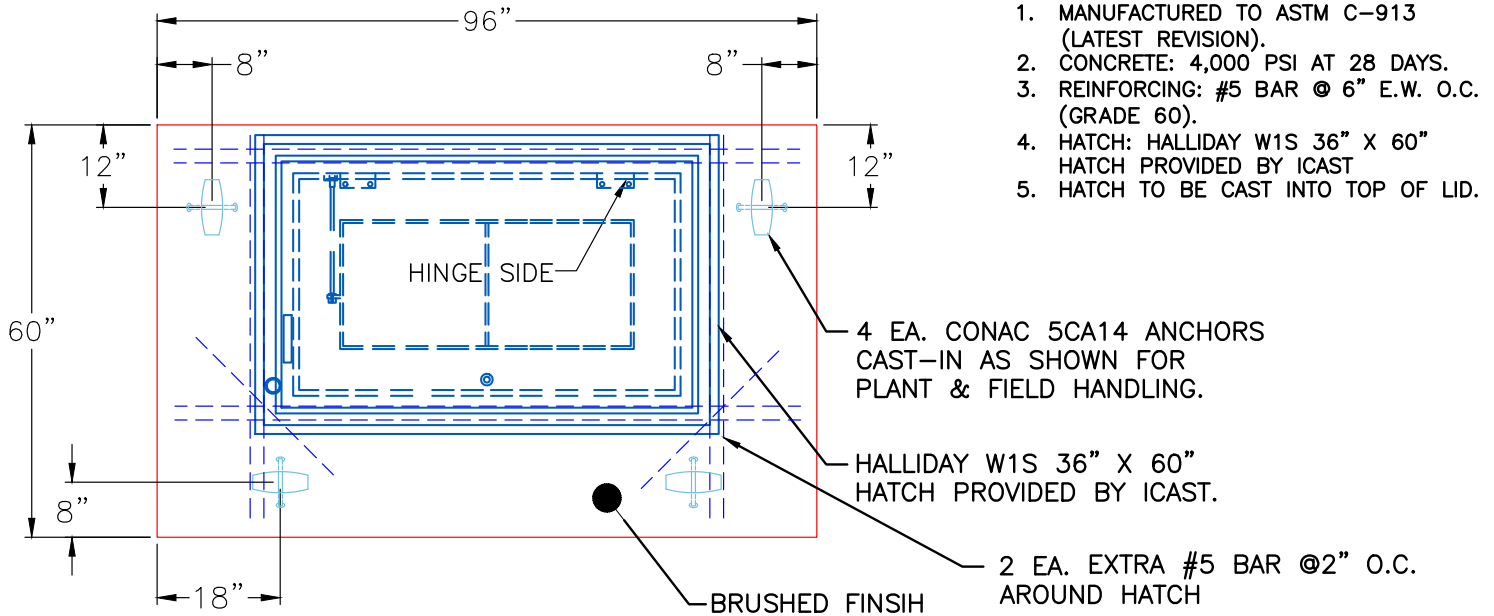
100 lb
2417 lb
10702 lb
116 lb
0 lb
0 lb
0 lb

Structure Total: 13334 lb

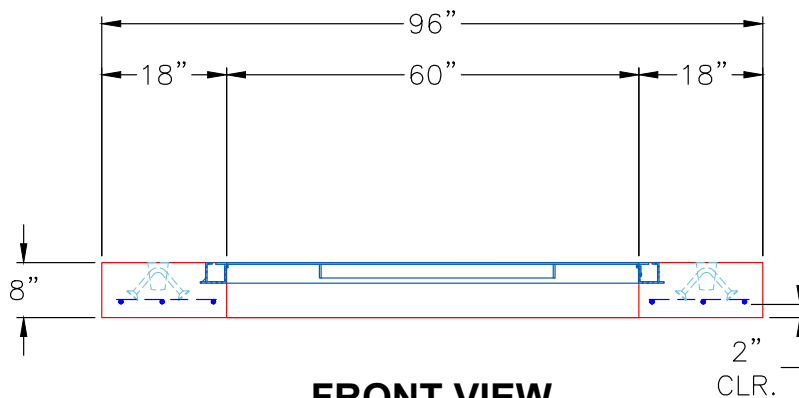
Structure Notes:

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

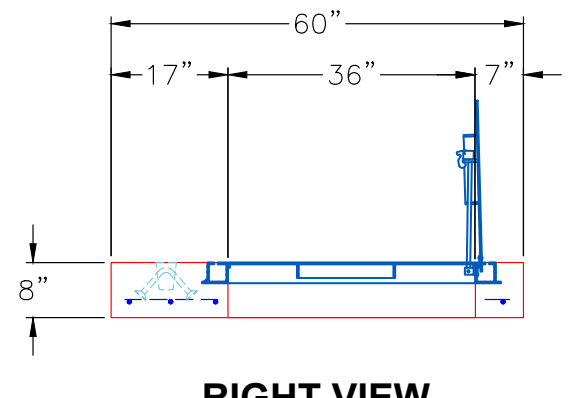
REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- WALLS (As .12) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.



PLAN VIEW



FRONT VIEW



RIGHT VIEW

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 8"

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

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

Plant: 100

5/5/2026 8:17:54 PM

Tech: Jared - F
PC: E. Bradley



Structure ID: METER VAULT - 10

P2 BX4884-06LD08-SP

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

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

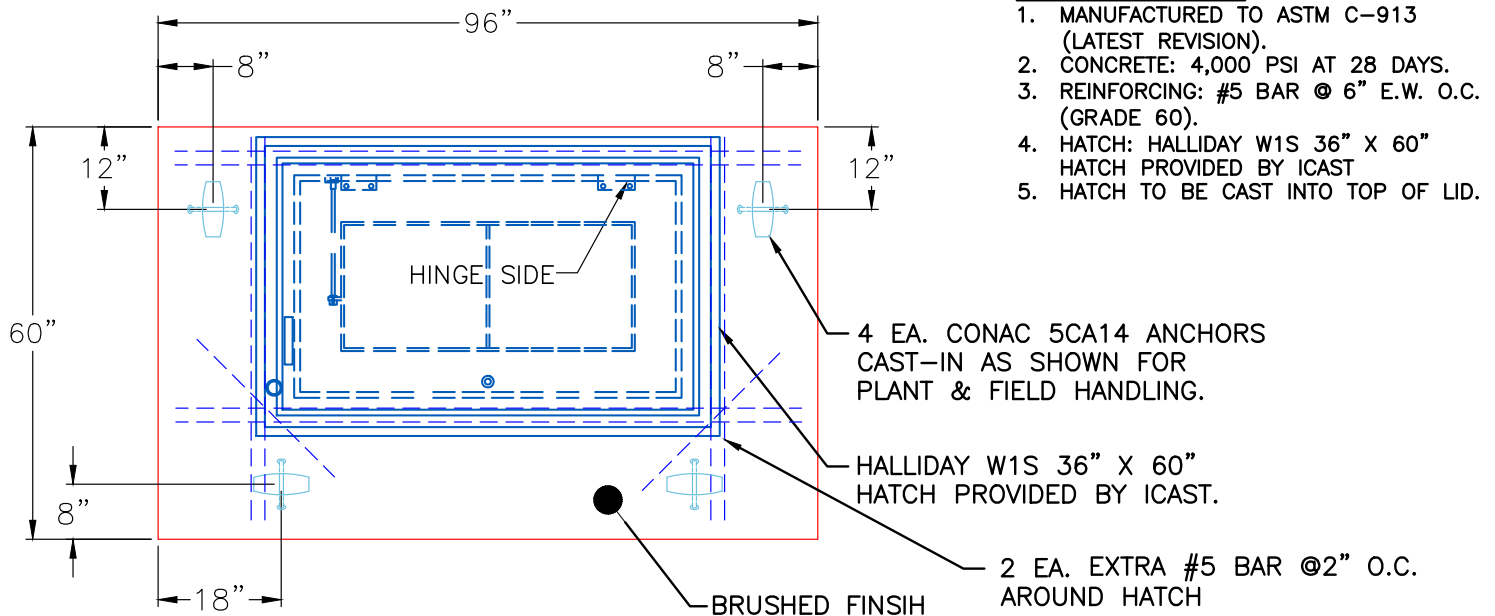
100 lb
2417 lb
10702 lb
116 lb
0 lb
0 lb
0 lb

Structure Total: 13334 lb

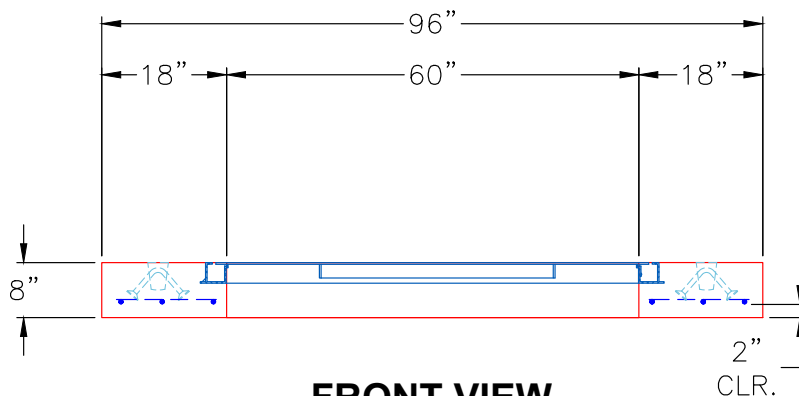
Structure Notes:

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

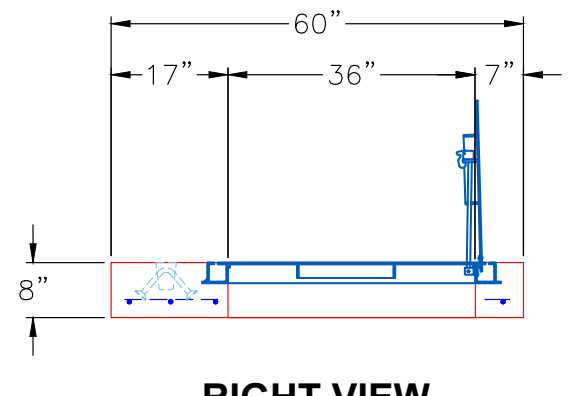
REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- WALLS (As .12) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.



PLAN VIEW



FRONT VIEW



RIGHT VIEW

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 8"

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

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

Plant: 100

5/5/2026 8:17:54 PM

Tech: Jared - F
PC: E. Bradley



Structure ID: METER VAULT - 9

P2 BX4884-06LD08-SP

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

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

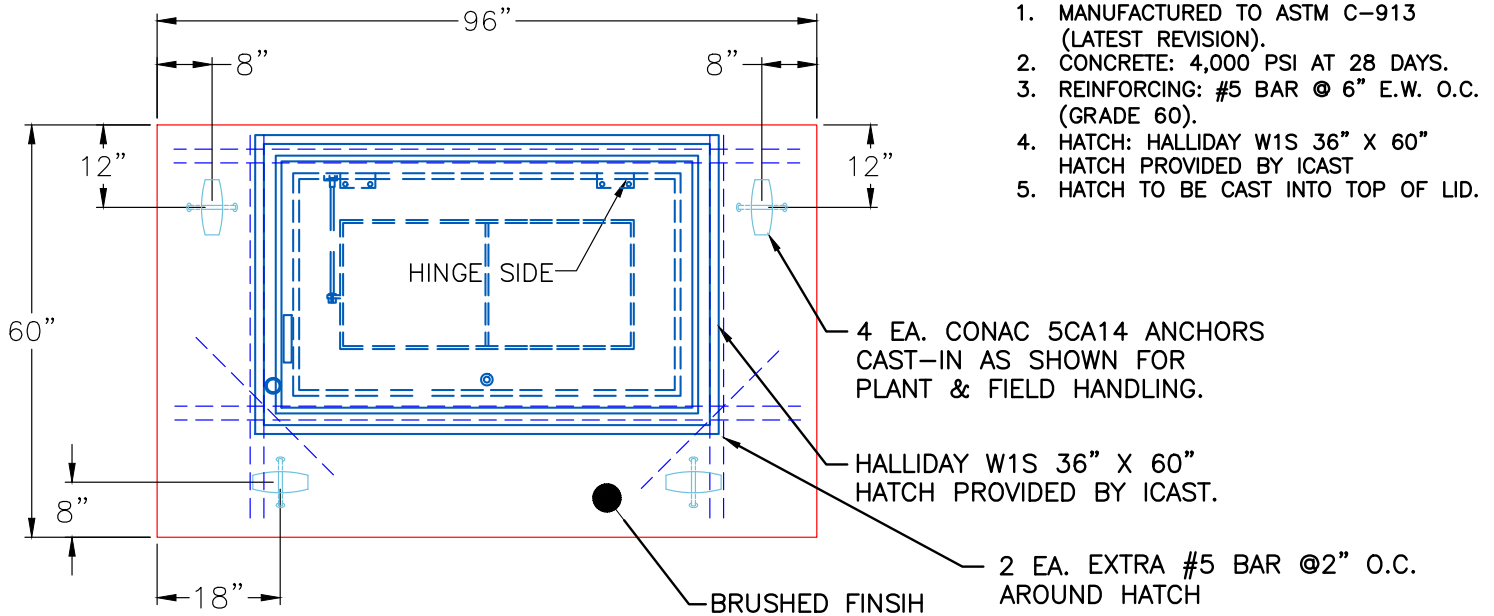
100 lb
2417 lb
10702 lb
116 lb
0 lb
0 lb
0 lb

Structure Total: 13334 lb

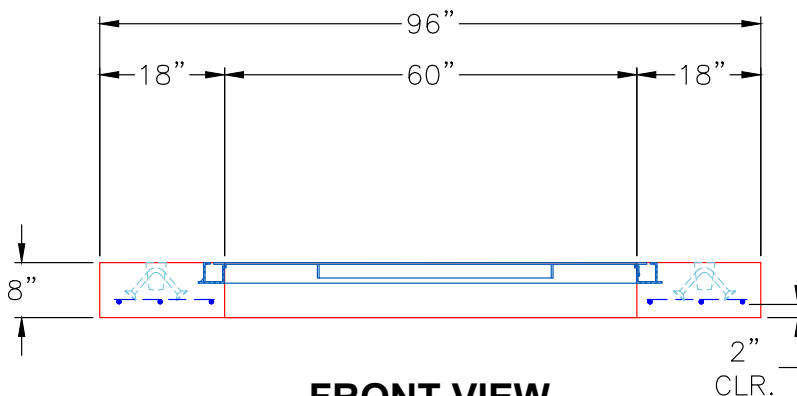
Structure Notes:

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

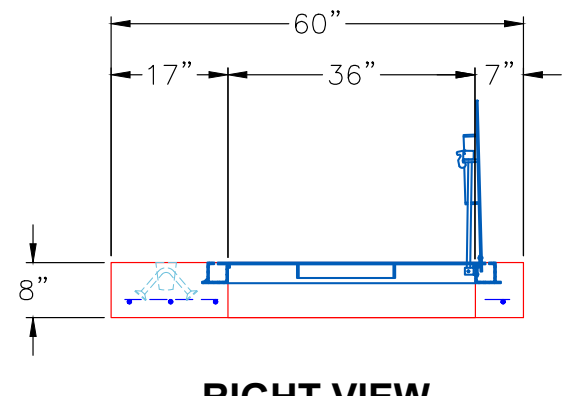
REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- WALLS (As .12) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.



PLAN VIEW



FRONT VIEW



RIGHT VIEW

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

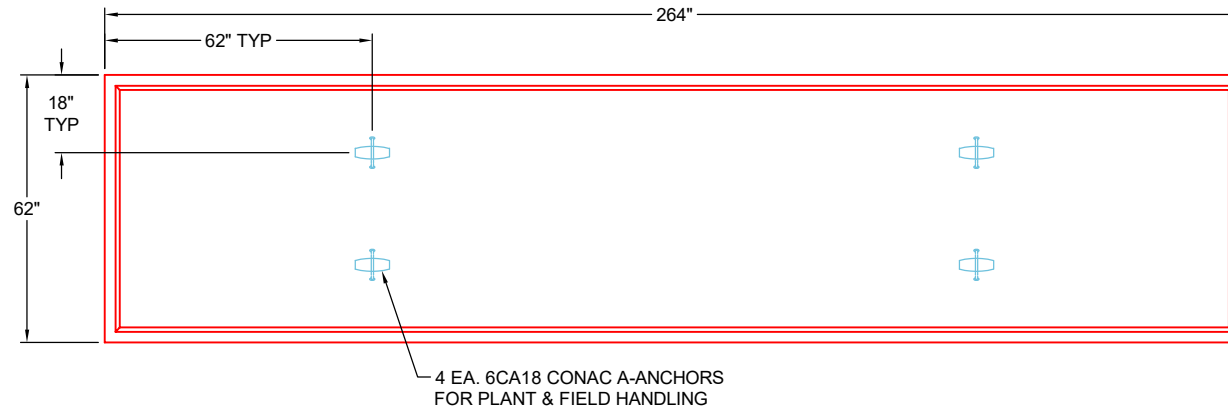
Wall Thickness: 6"

Height (Ext): 8"

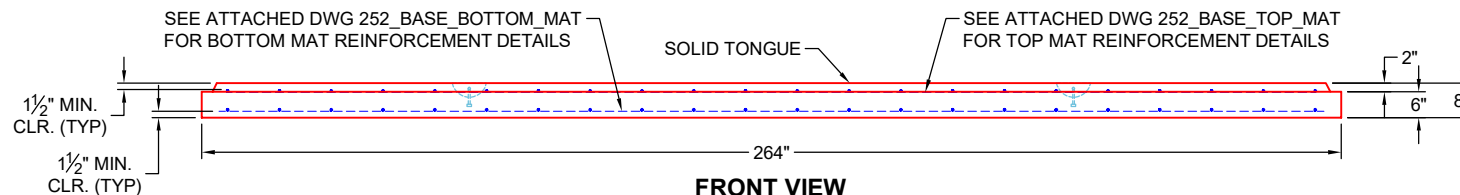
Weight (Net): 2417 lb
Volume (Net): 0.62cu.yd

GENERAL NOTES:

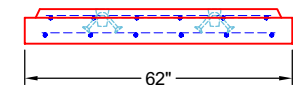
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION)
2. CONCRETE: 5,000 PSI AT 28 DAYS
3. REINFORCEMENT - MIN. 1½" REBAR CLEARANCE:
 - TOP MAT: PER ATTACHED DWG 252_BASE_TOP_MAT
 - BOTTOM MAT: PER ATTACHED DWG 252_BASE_BOTTOM_MAT
4. WEIGHTS: 11,502 LBS



**PLAN VIEW
(RIGHT SIDE UP)**



**FRONT VIEW
(RIGHT SIDE UP)**



**SIDE VIEW
(RIGHT SIDE UP)**

PRODUCTION WORK ORDER

PRODUCT I.D.: CVBS

DESCRIPTION: 62" X 264" X 8" SEPARATE BASE SLAB

**QUALITY CONTROL CHECKLIST**

- ☐ ALL DIMENSIONS CORRECT.
- ☐ LIFTERS INSTALLED.
- ☐ CORRECT THICKNESS.
- ☐ REINFORCING CORRECT.
- ☐ FINISH ON SLAB SURFACE UNIFORM.
- ☐ OUTSIDE TOP EDGE TROWELLED.
- ☐ SOLID TONGUE JOINT INSTALLED.

PRODUCT VIEW: RIGHT SIDE UP

CUSTOMER: ENDESOL, INC.

PLANT: BEAVER DAM, KY

PROJECT: 6-25 691254033

WEIGHT: 11,502 LBS

STRUCTURE: 2-61620 1 (EFX-60 21 PN VAULT)

TOP SECTION JOINT: N / A

ORDER NO: 26-1620

BASE SECTION JOINT: SOLID TONGUE

PE: J.H. ROSS

DRAWING: J. HORSLEY

QC CHECK INITIALS:

DATE: 04/24/26

SCALE: NTS

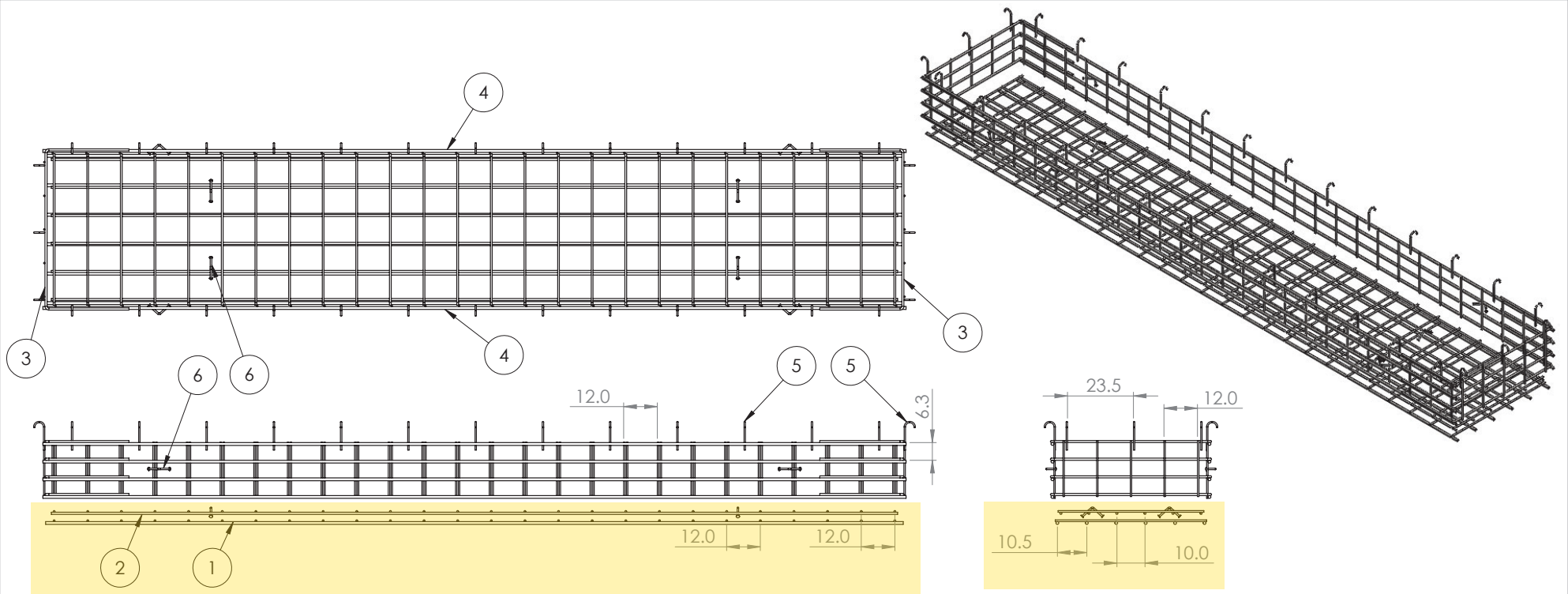
PG. 1 OF 1

4

3

2

1



ITEM NO.	PART NUMBER	Qty.
1	252_Base_Bottom Mat	1
2	252_Base_Top Mat	1
3	Short Wall	2
4	252_ADJ_Long Wall	2
5	#4 O904J	32
6	6CA18	8

NOTES:

1. Rebar: #5, #6, #8 A614 Grade 60
2. All Rebar to have 1.5" Cover Minimum

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DRAWING IS THE SOLE PROPERTY OF
ENDESOL INC. ANY REPRODUCTION IN
PART OR AS A WHOLE WITHOUT THE
WRITTEN PERMISSION OF
ENDESOL INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	ENDESOL TITLE: EFX-60 Adjustable Section Rebar Layout	
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL 1/8"	DRAWN	CMJ		
		TWO PLACE DECIMAL .13 THREE PLACE DECIMAL .125	CHECKED	JHR	3-25-16	SIZE B DWG. NO. EFX-60 ADJ Rebar REV X1
		INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.	XXXX	XXXX	
		MATERIAL Rebar A614 G60	MFG APPR.	XXXX	XXXX	
		FINISH MILL	Q.A.	XXXX	XXXX	
		DO NOT SCALE DRAWING	COMMENTS:			
NEXT ASSY	USED ON	APPLICATION	SCALE: 1:50			WEIGHT:
						SHEET 1 OF 1

4

3

2

1

4

3

2

1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	#8_256.0	#8 Rebar	6
2	#5_54.0	#5 Rebar	22

#5 Rebar

#8 Rebar

256.0

54.0

10.5 - TYP.

12.0 - TYP.



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

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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
DECIMAL ± 0.5"

MATERIAL

FINISH

DO NOT SCALE DRAWING

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

SIZE DWG. NO. REV.
B 252_Base_Bottom Mat
SCALE: 1:50 WEIGHT: SHEET 1 OF 1

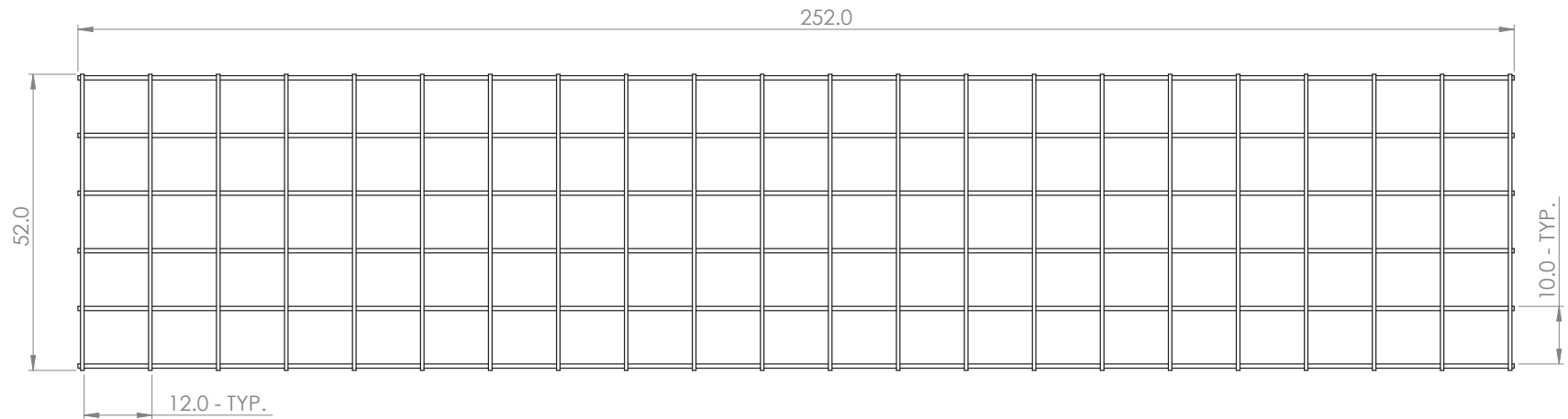
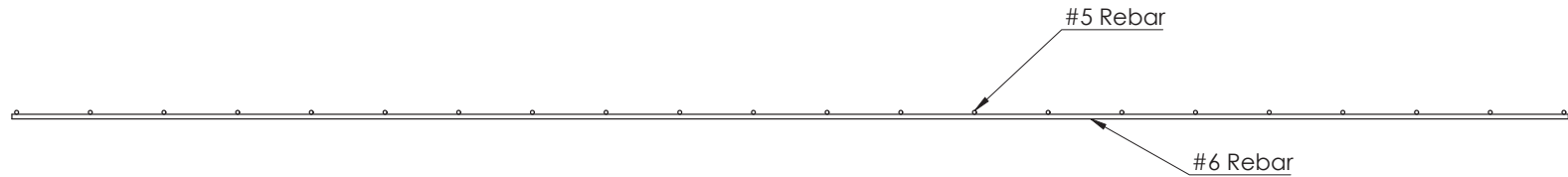
4

3

2

1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	#6_252.0	#6 Rebar	6
2	#5_52.0	#5 Rebar	22



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

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL: $\pm$
ANGULAR: MACH: $\pm$ BEND: $\pm$
DECIMAL: $\pm$ 0.5"

MATERIAL

FINISH

DO NOT SCALE DRAWING

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

SIZE	DWG. NO.	REV.
B	252_Base_Top Mat	
SCALE: 1:50	WEIGHT:	SHEET 1 OF 1

4

3

2

1

Job Name: 26-1100 - TVA Shawnee
Job Location: Paducah, KY
Contractor: TVA

Plant: 100

Tech: Jared - A

4/27/2026 12:21:49 PM

PC: A. Chambers



Structure ID: 61100 (3)

P2 BX048048-08LD08-32x32

BX FLAT LID 8inW w/32"x32" HOLE F/F

- P3) 32" x 32" - CASTING HEIGHT - 4"
P2) 48" x 48" - BX FLAT LID 8inW w/32"x32" HOLE F/F - 8"
P1) 48" x 48" - BOX BASE 8inW, 8inF F/n - 60"
1) CASTING - JBS 4315 F/G
1) 48" x 48" - Conseal CS-102 1.00"
1) 32" x 32" - Conseal CS-102 1.00"
2) Hole - 2
2) Hole - 8

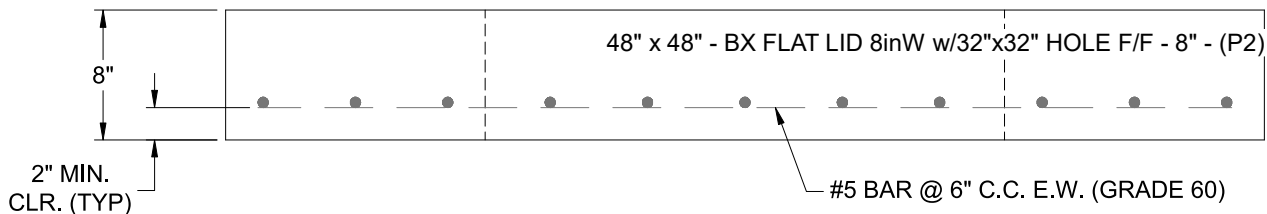
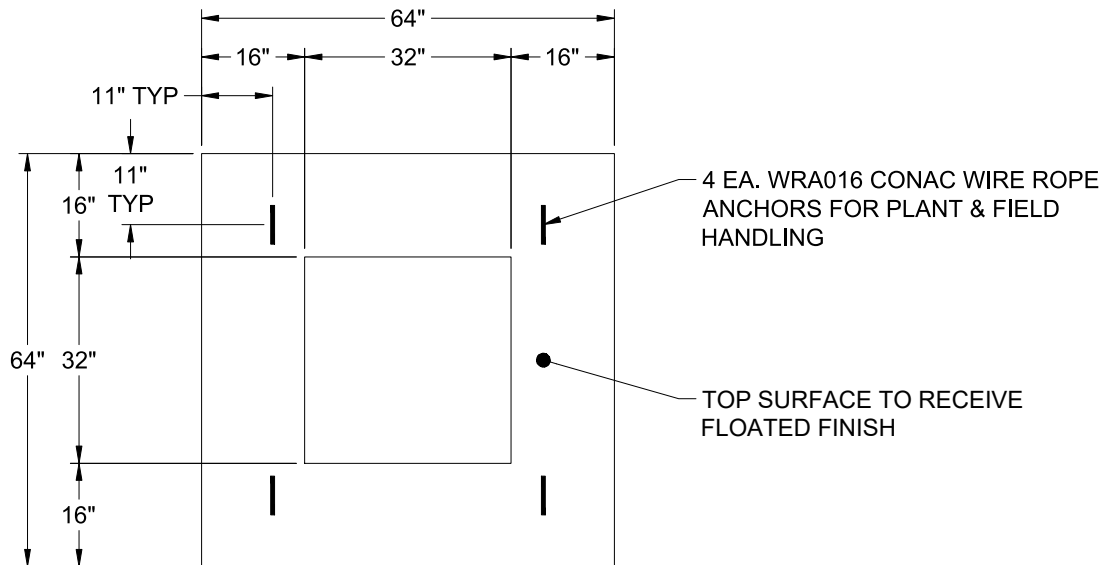
Structure Total:

0 lb
2062 lb
11700 lb
500 lb
0 lb
0 lb
0 lb
0 lb

14262 lb

Structure Notes:

1. PER ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. JBS 4315 FRAME & GRATE SUPPLIED BY ICAST
5. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
6. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 2062 lb
Volume (Net): 0.53cu.yd

Job Name: 26-1100 - TVA Shawnee
Job Location: Paducah, KY
Contractor: TVA

Plant: 100

Tech: Jared - A

4/27/2026 12:21:48 PM

PC: A. Chambers



Structure ID: 61100 (2)

P2 BX048048-08LD08-32x32

BX FLAT LID 8inW w/32"x32" HOLE F/F

- P3) 32" x 32" - CASTING HEIGHT - 4"
P2) 48" x 48" - BX FLAT LID 8inW w/32"x32" HOLE F/F - 8"
P1) 48" x 48" - BOX BASE 8inW, 8inF F/n - 60"
1) CASTING - JBS 4315 F/G
1) 48" x 48" - Conseal CS-102 1.00"
1) 32" x 32" - Conseal CS-102 1.00"
2) Hole - 2
2) Hole - 8

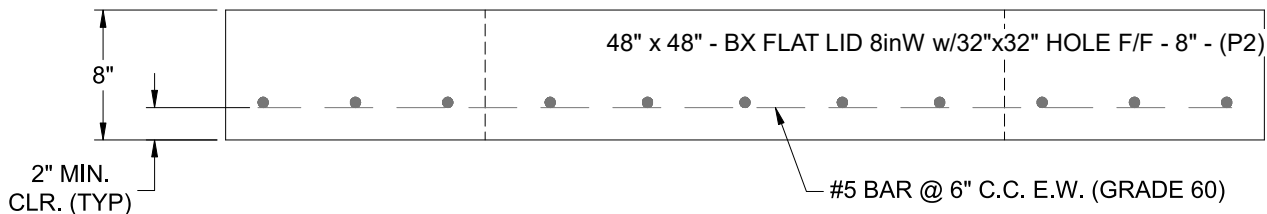
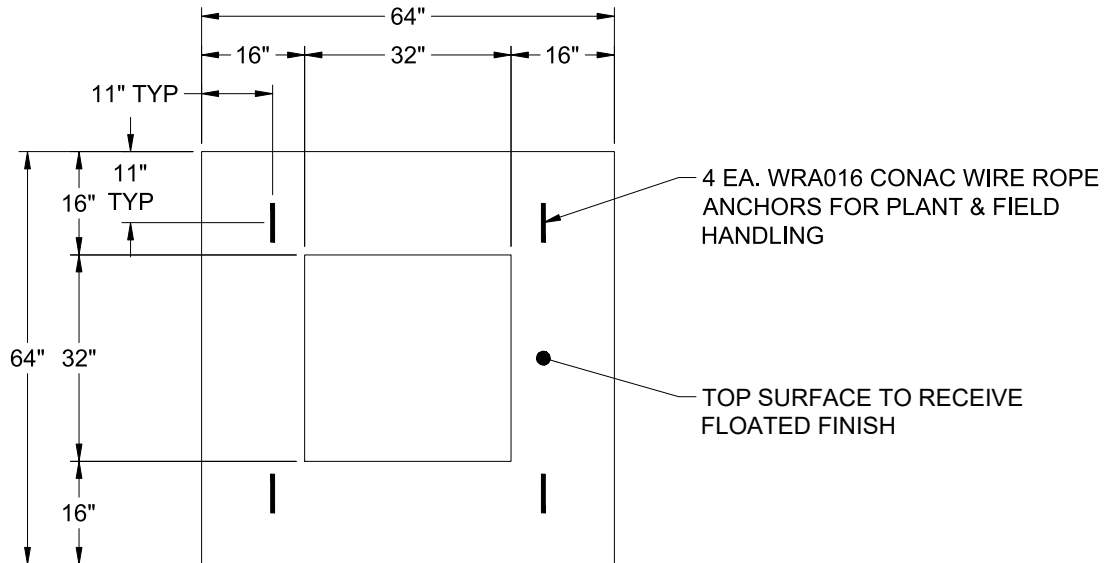
Structure Total:

0 lb
2062 lb
11700 lb
500 lb
0 lb
0 lb
0 lb
0 lb

14262 lb

Structure Notes:

1. PER ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. JBS 4315 FRAME & GRATE SUPPLIED BY ICAST
5. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
6. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 2062 lb
Volume (Net): 0.53cu.yd

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

Plant: 100

2/17/2026 10:39:13 AM

Tech: J. Horsley

PC: J. Jarvis



Structure ID: H7

P2 BX024024-06LD08S

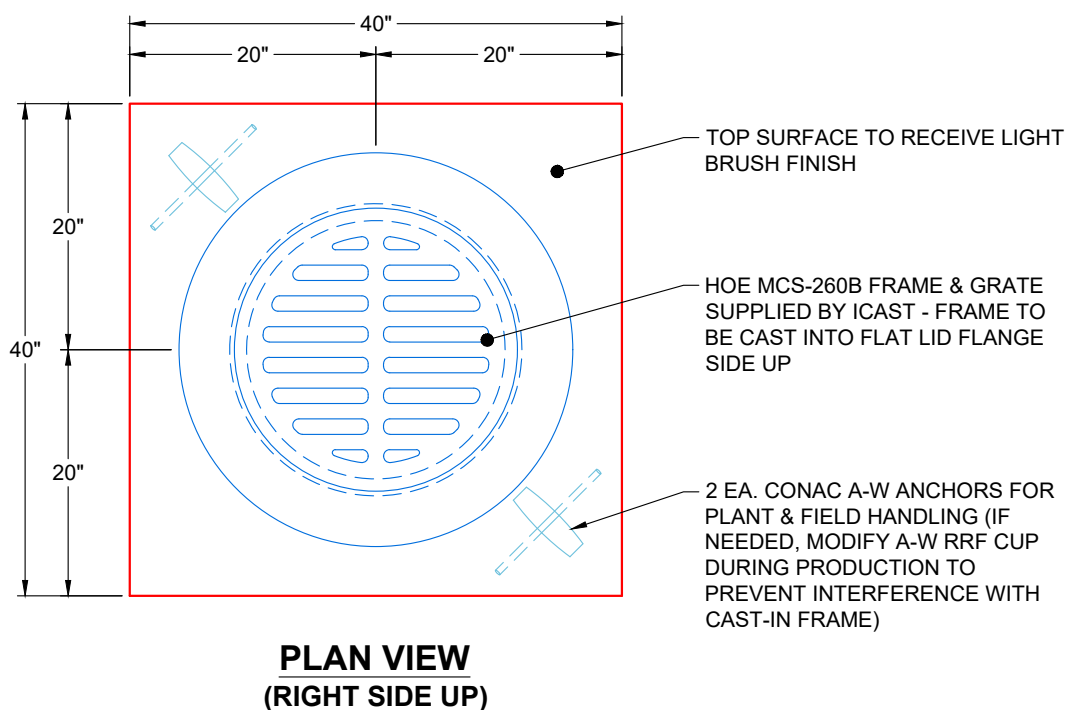
CB FLAT TOP 8"W w/24" F/G F/F

- P3) 24" - CASTING HEIGHT - 0"
P2) 24" x 24" - CB FLAT TOP 8"W w/24" F/G F/F - 6"
P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 23"
1) CASTING - HOE MCS-260B F/G
1) This Structure Includes a Cast-in Item - HOE MCS-260B Frame Flange Side Up
1) 24" x 24" - Conseal CS-102 1.00"
1) Hole - 20
1) Hole - 16

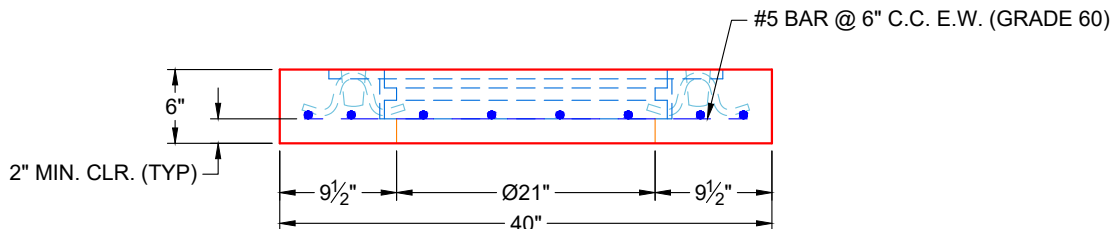
0 lb
750 lb
2705 lb
0 lb
0 lb
0 lb
0 lb
0 lb
Structure Total: 3455 lb

Structure Notes:

1. PER LOUISVILLE MSD / ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. HOE MCS-260B FRAME & GRATE SUPPLIED BY ICAST - FRAME TO BE CAST INTO FLAT LID FLANGE SIDE UP
5. LIFTERS: 2 EA. CONAC A-W ANCHORS FOR PLANT & FIELD HANDLING
6. TOP SURFACE TO RECEIVE LIGHT BRUSH FINISH



**PLAN VIEW
(RIGHT SIDE UP)**



**FRONT VIEW
(RIGHT SIDE UP)**

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 6"

Weight (Net): 578 lb
Volume (Net): 0.15cu.yd

Job Number:

25-4299

Job Name:

Dan Cristiani Excavating Co. Inc.

Structure:

H7

Note:

HOE MCS-260B Frame Supplied By
iCast To Be Cast Into Flat Lid
Flange Side Up

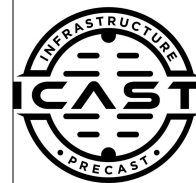
Job Name: 25-4299 - Seneca High School
Job Location: Louisville, KY
Contractor: Dan Cristiani Excavating Co. Inc.

Plant: 100

2/17/2026 10:39:14 AM

Tech: J. Horsley

PC: J. Jarvis



Structure ID: H9

P2 BX024024-06LD08S

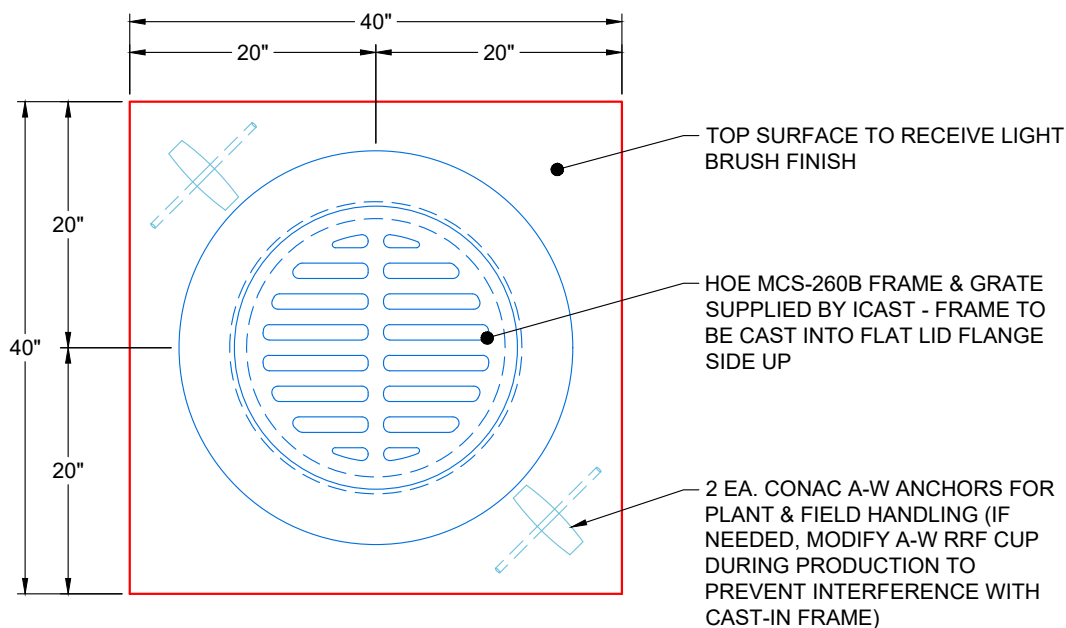
CB FLAT TOP 8"W w/24" F/G F/F

P3) 24" - CASTING HEIGHT - 0"
P2) 24" x 24" - CB FLAT TOP 8"W w/24" F/G F/F - 6"
P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 19"
1) CASTING - HOE MCS-260B F/G
1) This Structure Includes a Cast-in Item - HOE MCS-260B Flange Side Up
1) 24" x 24" - Conseal CS-102 1.00"
1) Hole - 14
1) Hole - 6

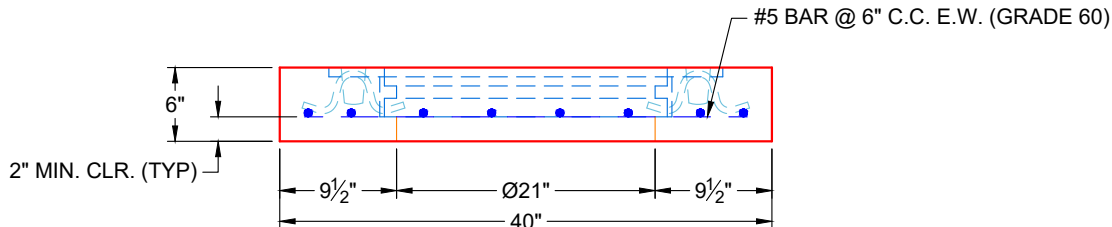
0 lb
750 lb
2584 lb
0 lb
0 lb
0 lb
0 lb
0 lb
Structure Total: 3334 lb

Structure Notes:

1. PER LOUISVILLE MSD / ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. HOE MCS-260B FRAME & GRATE SUPPLIED BY ICAST - FRAME TO BE CAST INTO FLAT LID FLANGE SIDE UP
5. LIFTERS: 2 EA. CONAC A-W ANCHORS FOR PLANT & FIELD HANDLING
6. TOP SURFACE TO RECEIVE LIGHT BRUSH FINISH



PLAN VIEW
(RIGHT SIDE UP)



FRONT VIEW
(RIGHT SIDE UP)

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 6"

Weight (Net): 578 lb
Volume (Net): 0.15cu.yd

Job Number:

25-4299

Job Name:

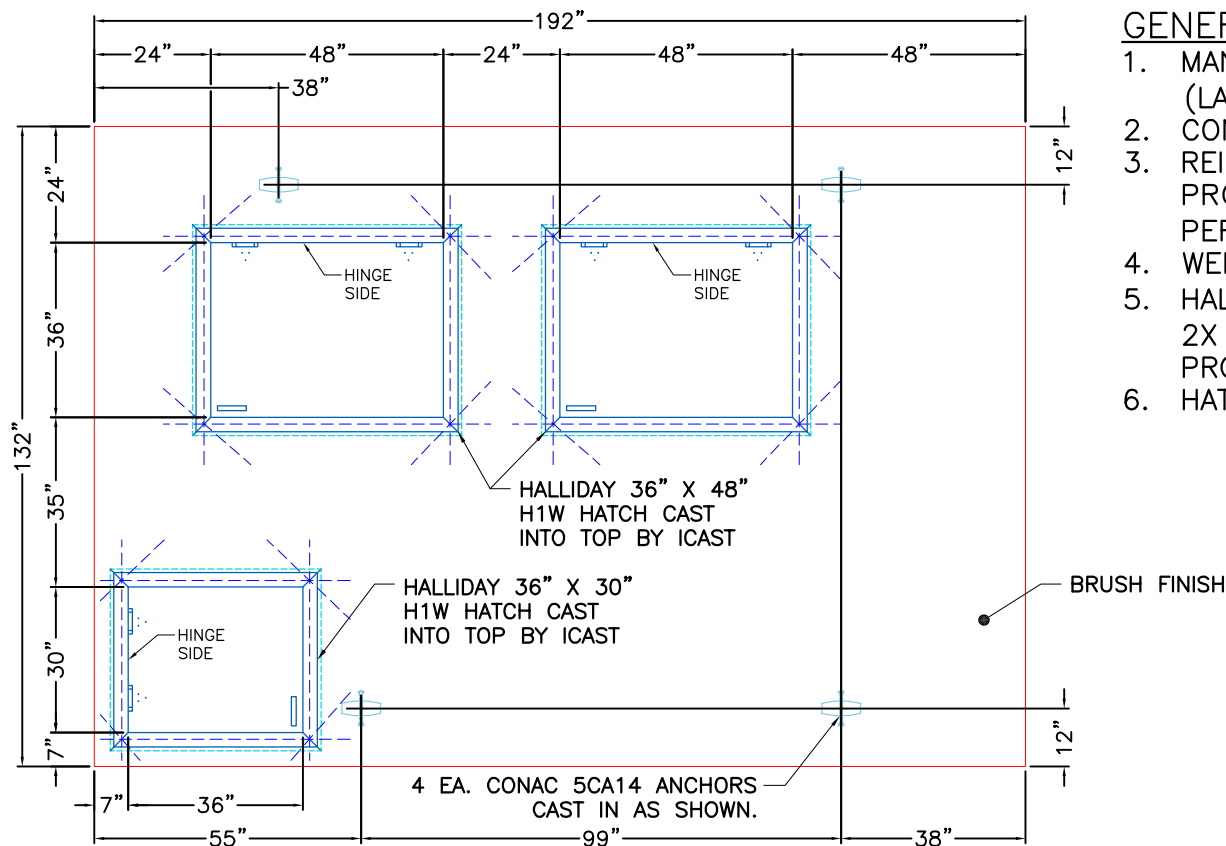
Dan Cristiani Excavating Co. Inc.

Structure:

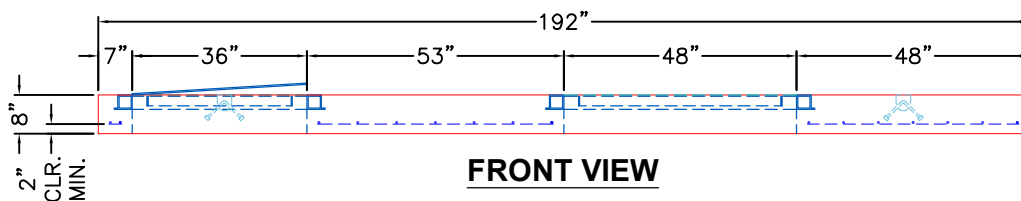
H9

Note:

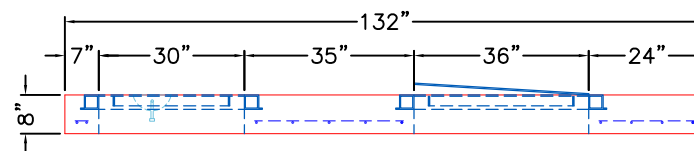
HOE MCS-260B Frame Supplied By
iCast To Be Cast Into Flat Lid
Flange Side Up



PLAN VIEW



FRONT VIEW



RIGHT VIEW

GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS.
3. REINFORCING: SEE REINFORCEMENT DESIGN PROVIDED BY MATT CHILDS ENGINEERING PER ASTM A615 (GRADE 60).
4. WEIGHT: 13,968 LBS
5. HALLIDAY 36" X 30" H1W HATCH AND 2X HALLIDAY 36" X 48" H1W HATCHES PROVIDED BY ICAST.
6. HATCHES TO BE CAST IN TOP SLAB.

PRODUCTION WORK ORDER

PRODUCT I.D.: CTS

DESCRIPTION: 132" X 192" TOP SLAB FOR 120" X 180" VAULT



QUALITY CONTROL CHECKLIST

- ☐ ALL DIMENSIONS CORRECT.
- ☐ LIFTERS INSTALLED.
- ☐ HATCHES CORRECT LOCATION.
- ☐ REINFORCING CORRECT.
- ☐ SURFACE QUALITY ACCEPTABLE.
- ☐ EDGES CHAMFERED.
- ☐ ALL PATCHWORK ACCEPTABLE.

PRODUCT VIEW: RIGHT SIDE UP

CUSTOMER: CLEARY CONSTRUCTION

PLANT: BEAVER DAM, KY.

PROJECT: WCWD FLOW FOR OUR FUTURE METER VAULTS

WEIGHT: 13,968 LBS.

STRUCTURE: WATER MAIN MASTER METER VAULT

TOP SECTION JOINT: N/A

ORDER NO: 25-1706

BASE SECTION JOINT: N/A

PE: C. GOFF

DRAWING: J. COPPAGE

QC CHECK INITIALS:

DATE: 10/2/25

SCALE: NTS

PG. 1 of 1

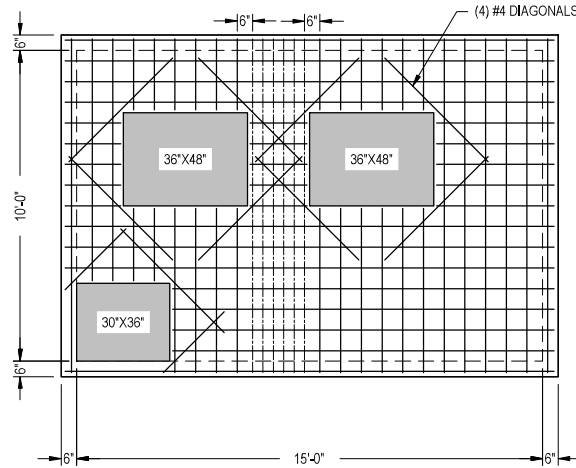
DESIGN NOTE:

HS20 LOADING (OFF-STREET) - ASTM C857
 CONCRETE 28 DAY COMPRESSIVE STRENGTH - 5000 PSI
 REINFORCEMENT STEEL - 60,000 PSI
 REBAR MIN SPLICE LENGTHS: #4-22" #5-28" #6-33"
 PLACE 4-#4 BAR DIAGONAL AROUND OPENING(S)

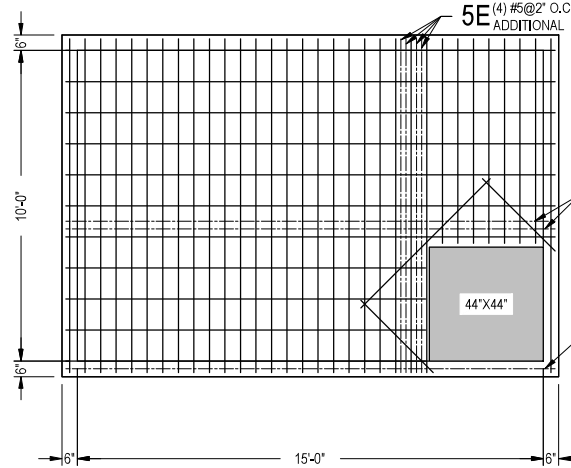
25-1706 WATER MAIN MASTER METER VAULT

REINFORCING STEEL SCHEDULE

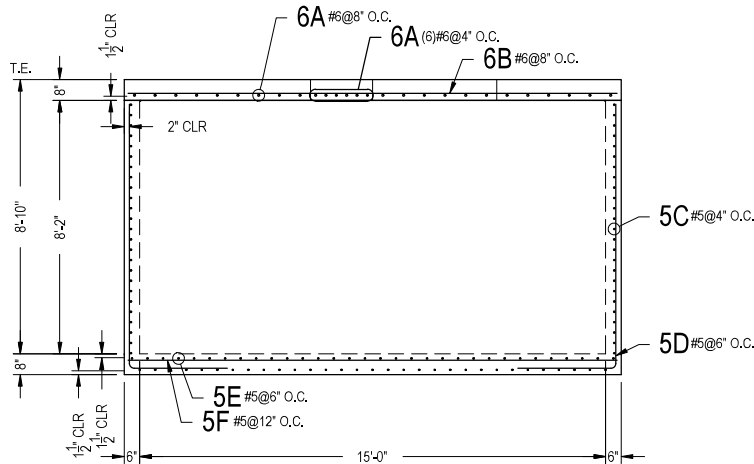
MARK	NO.	LENGTH	TYPE	Lb/Ea.	TOTAL LB	BENDING DIAGRAM
6A	27	10'-9"	STR.	16,1465	435,9555	
6B	17	15'-9"	STR.	23,6565	402,1605	
5C	25	28'-7" (2)	BENT	29,8124	1490,6200	
5D	104	11'-7"	BENT	12,0814	1258,4656	
5E	36	10'-10"	STR.	11,2992	406,7712	
5F	14	15'-10"	STR.	16,5142	231,1988	



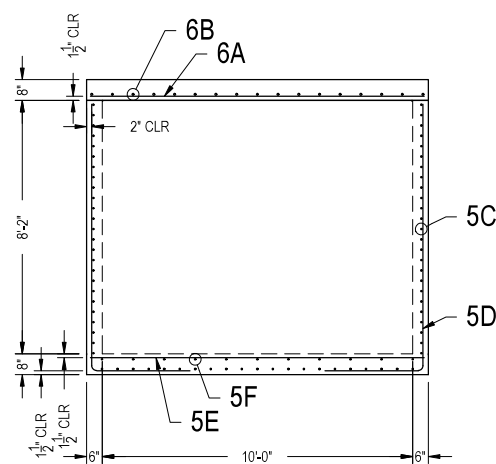
PLAN VIEW
(TOP SLAB)



PLAN VIEW
(BASE SECTION - TOP MAT)



FRONT VIEW



RIGHT VIEW

WATER MAIN MASTER
METER VAULT



MATT CHILDS ENGINEERING, P.C.
 519 E. INTERSTATE 30, #1017
 ROCKWALL, TX 75087

REVISIONS		DRAWN BY: MBJ	SCALE: 1/4" = 1'
A			
B			
C			
D			

METER VAULTS
 10'-0" x 15'-0"
 CLEARLY CONSTRUCTION
 WCWD FLOW FOR OUR FUTURE