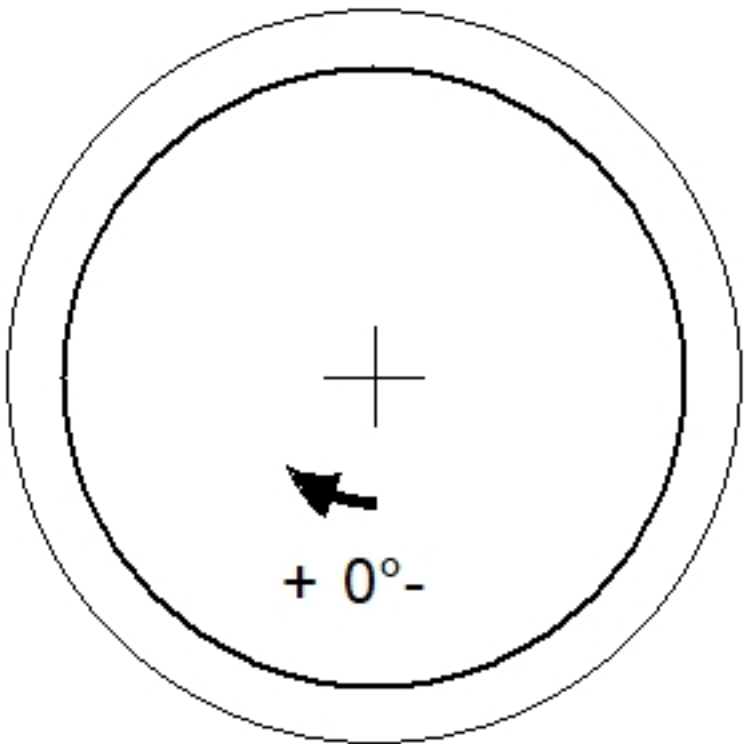
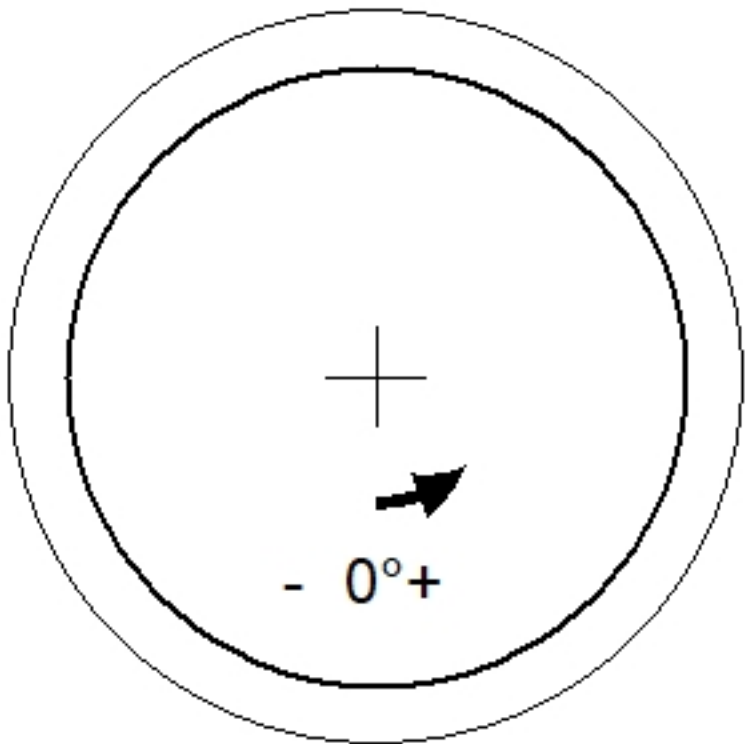
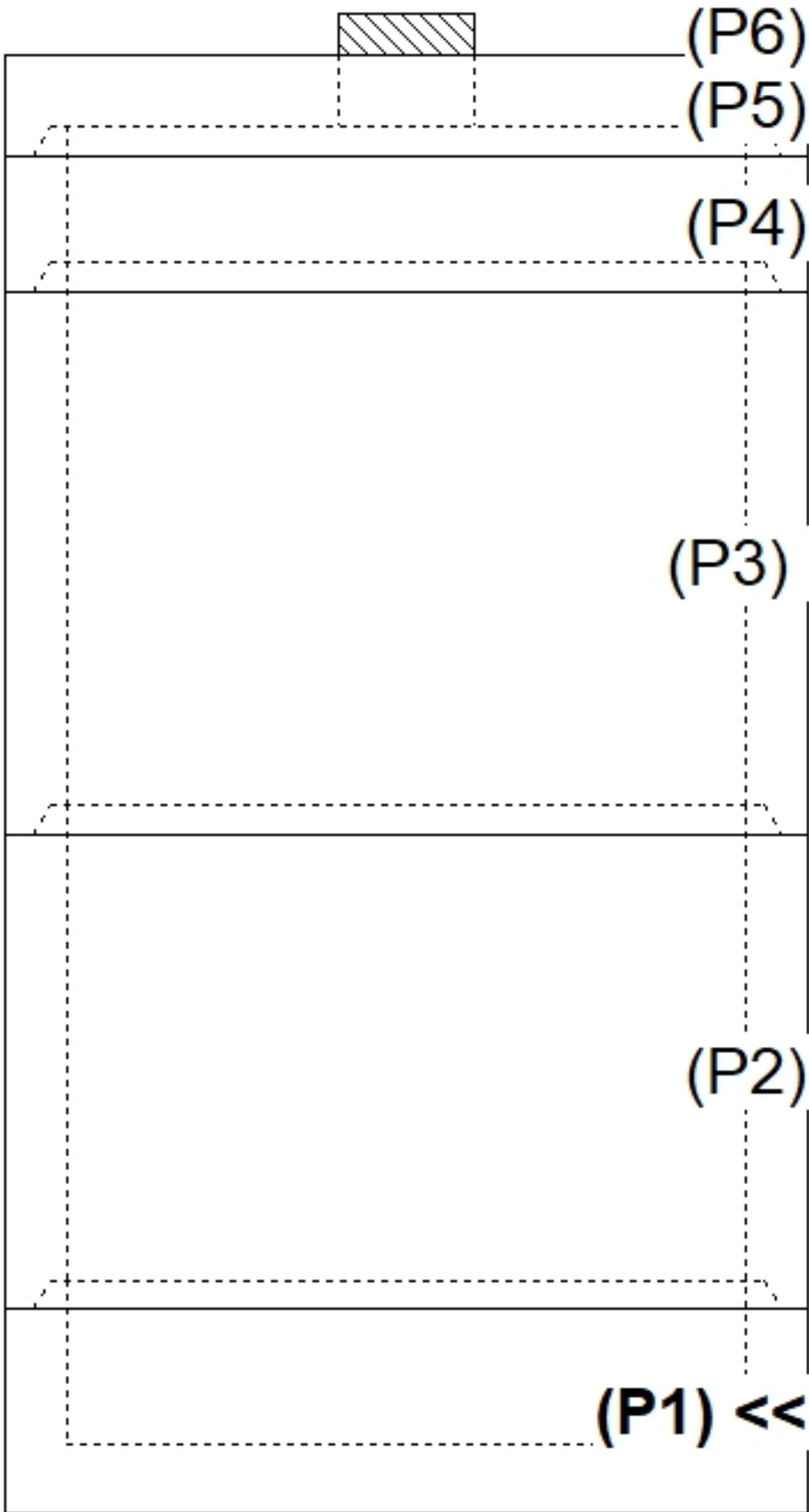
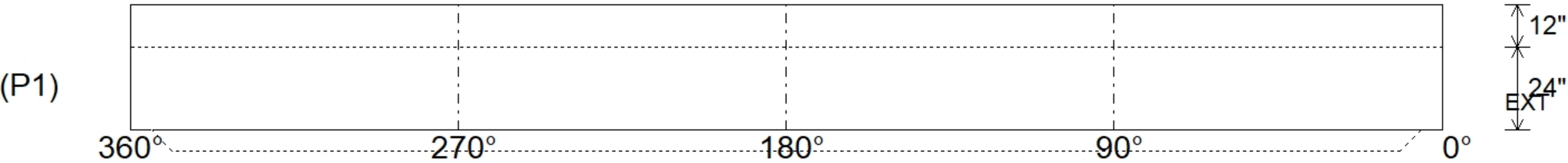


Job Name: 26-3054 ADS Couchville Online Job Location: Nashville, TN Contractor: ADS Advanced Drainage Systems, Inc.					Plant: Beaver Dam 7/23/2026 12:29:27 PM		Tech: S. Felletter PC: T. Ryan									
Structure ID: WQU1																
P1 MH120BVF			MH BASE T/n													
P6) 24" - CASTING HEIGHT - 7" P5) 120" - MH FLAT LID w/24in CON Hole F/G - 18" P4) 120" - MH RISER T/G - 24" P3) 120" - MH RISER T/G - 96" P2) 120" - MH RISER T/G - 84" P1) 120" - MH BASE T/n - 24" 1) ASSEMBLY REQUIRED - BRACKETS ONLY 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) CASTING - HOE MC-375 F/C Storm 4) 120" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) Hole - 34						0 lb 16678 lb 9117 lb 34772 lb 31909 lb 25064 lb 0 lb 0 lb 0 lb 271 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 117811 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-375 F/C "STORM"). 4. LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE. 5. ASSEMBLY REQUIRED - BRACKETS ONLY. . REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W. - RISER/WALLS (As .36) - FLOOR (As .47) #5 BARS AT 8" C.C.E.W.								
Rim: 545.95' Rim to Invert: 7.64' Slack: 0.68" Sump: 162" Step Position: 0°																
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset						
Invert 1																
Invert 2																
Invert 3																
Invert 4																
Invert 5																
Invert 6																
Invert 7																
Invert 8																
RIGHT-SIDE UP VIEW (int. dimensions) UPSIDE-DOWN VIEW (int. dimenions)    INSIDE WALL DIMENSIONS  <table><tr><td>Coating (Int): Coating (Ext):</td><td>Seam Up: Tongue Seam Dn: n/a</td><td>Wall Thickness: 11" Floor Height: 12"</td><td>Height (Int): 24" Height (Ext): 36"</td><td>Weight (Net): 25064 lb Volume (Net): 6.4cu.yd</td></tr></table>												Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 11" Floor Height: 12"	Height (Int): 24" Height (Ext): 36"	Weight (Net): 25064 lb Volume (Net): 6.4cu.yd
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 11" Floor Height: 12"	Height (Int): 24" Height (Ext): 36"	Weight (Net): 25064 lb Volume (Net): 6.4cu.yd												

Job Name: 25-1401 Irwin Landing Ph. 1
Job Location: Murfreesboro, TN
Contractor: Bear Construction LLC

Plant: Beaver Dam
6/9/2026 10:40:23 AM

Tech: S. Felletter
PC: Erica Bradley



Structure ID: R18

P2 MH048LD12-28SQ

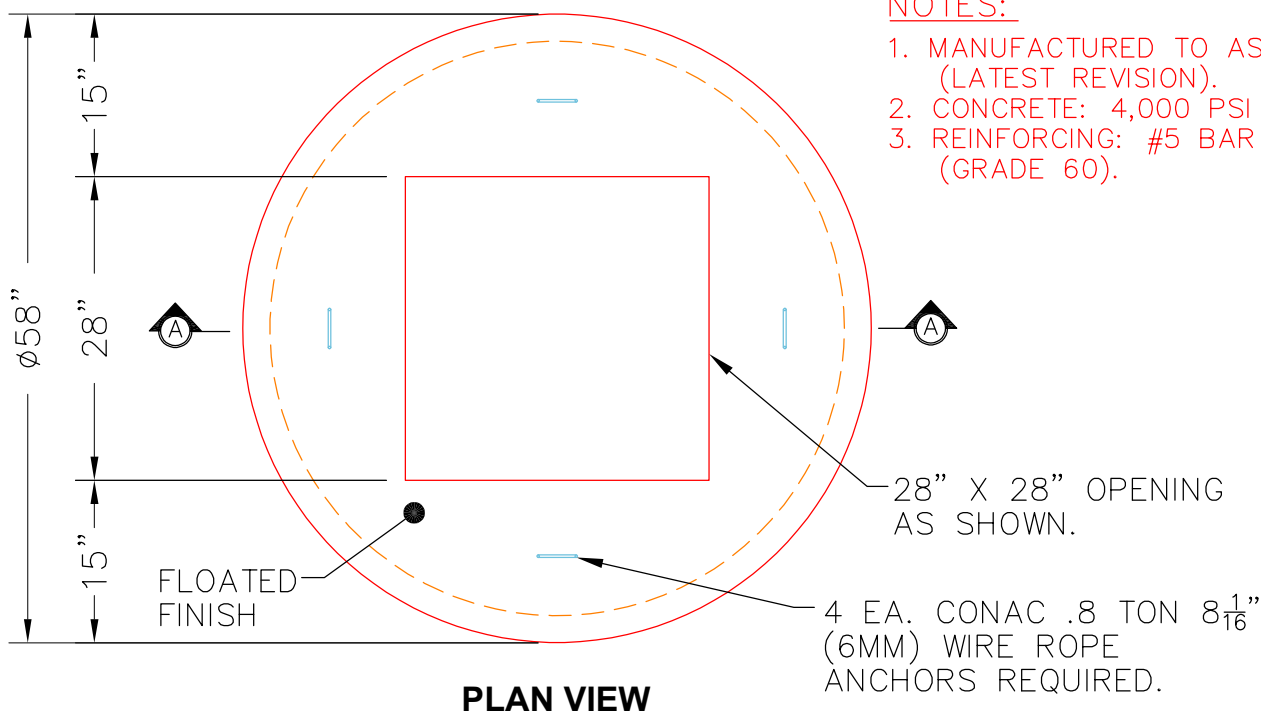
MH FLAT TOP w/28"x28" Hole F/G

- P4) 28" x 28" - CASTING HEIGHT - 5"
P3) 28" x 28" - GRADE RING F/F - 3"
P2) 48" - MH FLAT TOP w/28"x28" Hole F/G - 12"
P1) 48" - MH BASE T/n - 60"
1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT
1) CASTING - JBS 3104-V SINGLE SET
1) 48" - Conseal CS-102 1.00"
2) 28" x 28" - Conseal CS-102 1.00"
3) Hole - 26
5) MH Step ML-10-TDS-NCR - 10"

0 lb
290 lb
1368 lb
4822 lb
1075 lb
250 lb
0 lb
0 lb
0 lb
0 lb

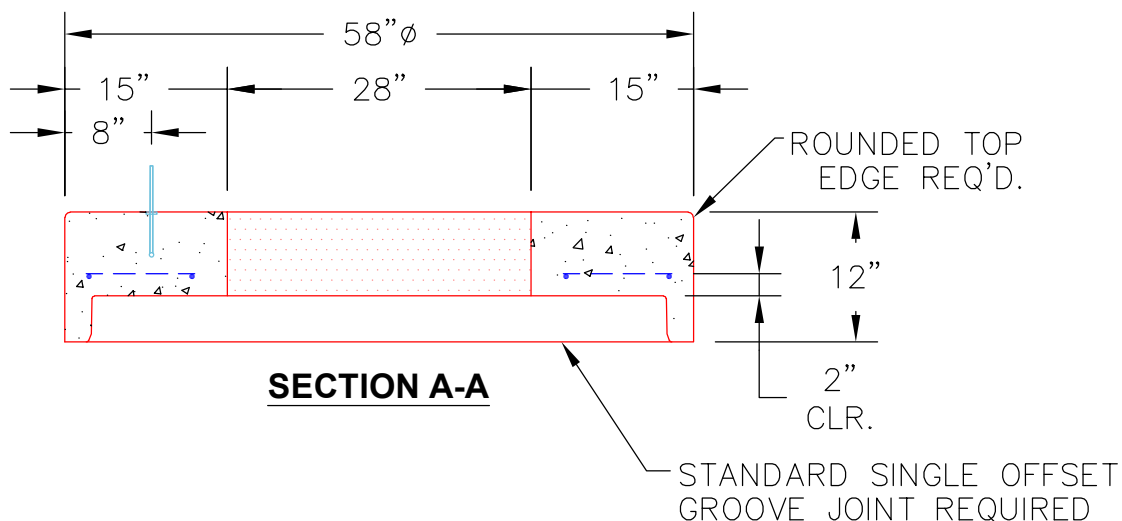
Structure Total: 7805 lb

Structure Notes:
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (JBS-3104 SINGLE SET).
REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.



NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 12"

Weight (Net): 1368 lb
Volume (Net): 0.35cu.yd

Job Name: 25-1401 Irwin Landing Ph. 1
Job Location: Murfreesboro, TN
Contractor: Bear Construction LLC

Plant: Beaver Dam
6/9/2026 10:40:23 AM

Tech: S. Felletter
PC: Erica Bradley



Structure ID: R17A

P2 MH048LD12-28SQ

MH FLAT TOP w/28"x28" Hole F/G

- P3) 28" x 28" - CASTING HEIGHT - 5"
P2) 48" - MH FLAT TOP w/28"x28" Hole F/G - 12"
P1) 48" - MH BASE T/n - 60"
1) 48" - STORM INVERT CHANNEL - 1/4 HEIGHT
1) CASTING - JBS 3104-V SINGLE SET
1) 48" - Conseal CS-102 1.00"
1) 28" x 28" - Conseal CS-102 1.00"
3) Hole - 26
5) MH Step ML-10-TDS-NCR - 10"

Structure Total:

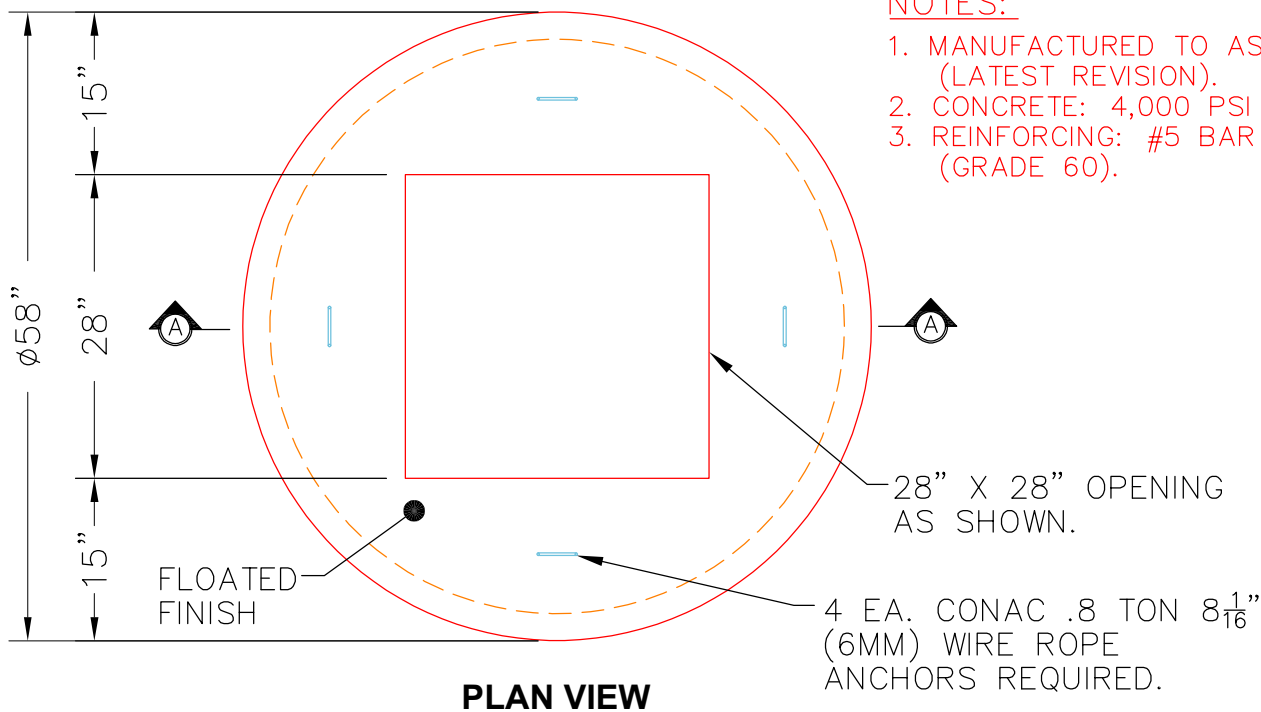
0 lb
1368 lb
4822 lb
1075 lb
250 lb
0 lb
0 lb
0 lb
0 lb

7515 lb

Structure Notes:

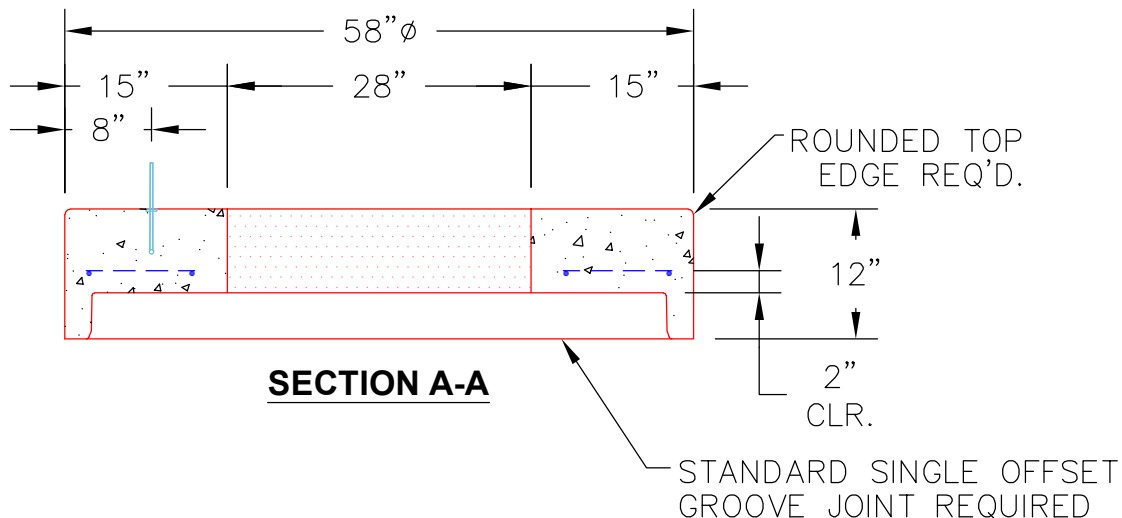
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (JBS-3104 SINGLE SET).

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



NOTES:

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



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 12"

Weight (Net): 1368 lb
Volume (Net): 0.35cu.yd

Job Name: 26-1787 - Kroger Expansion
 Job Location: Murray, KY
 Contractor: Parker Excavating, LLC.

Plant: 100
 7/22/2026 3:25:04 PM

Tech: J. Horsley
 PC: J. Jarvis



Structure ID: C8 ST-CI

P1 MH048BAVF

MH BASE Custom Ht F/n

- P3) 30" x 30" - CASTING HEIGHT - 6"
 P2) 48" - MH FLAT TOP w/30"x30" Hole F/F - 7"
 P1) 48" - MH BASE Custom Ht F/n - 40"
 1) CASTING - JBS 4310 F/G
 1) 48" - Con Seal CS-102 1.00"
 2) Hole - 30
 3) Hole - 6
 3) MH Step ML-10-TDS-NCR - 10"

0 lb
 1264 lb
 3457 lb
 500 lb
 0 lb
 0 lb
 0 lb
 0 lb

Structure Total: 5221 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (JBS 4310 F/G).

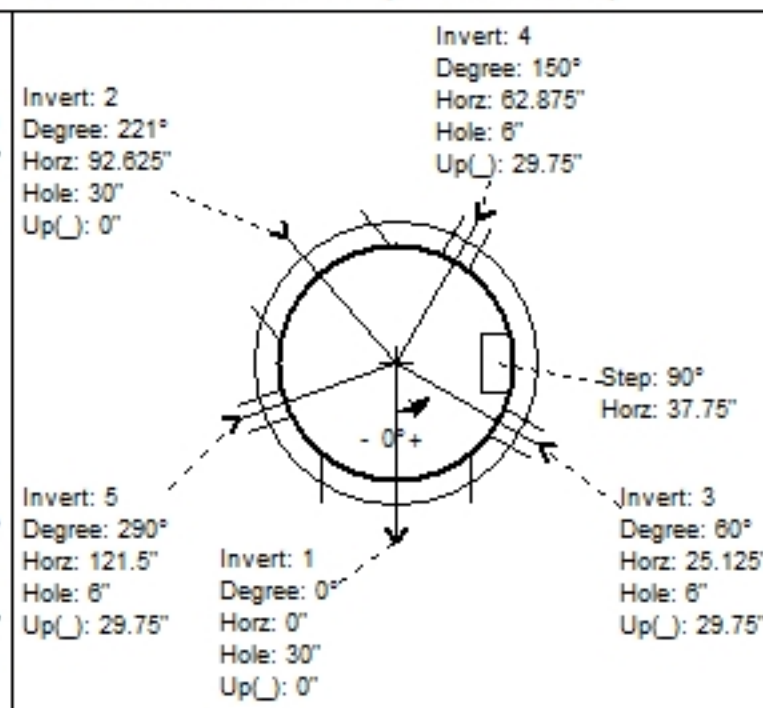
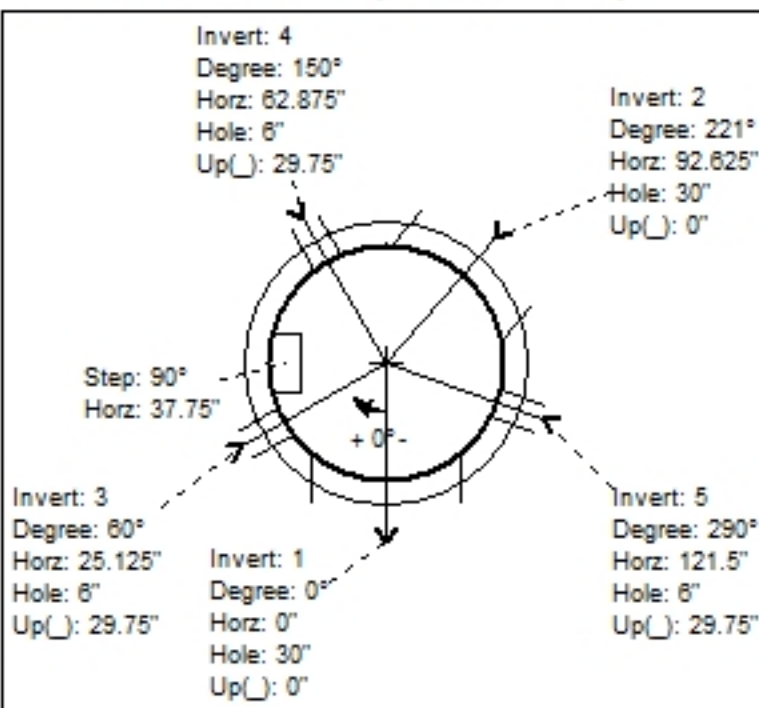
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 491.02' Rim to Invert: 4.27' Slack: 0.19' Sump: 1.95' Step Position: 180°

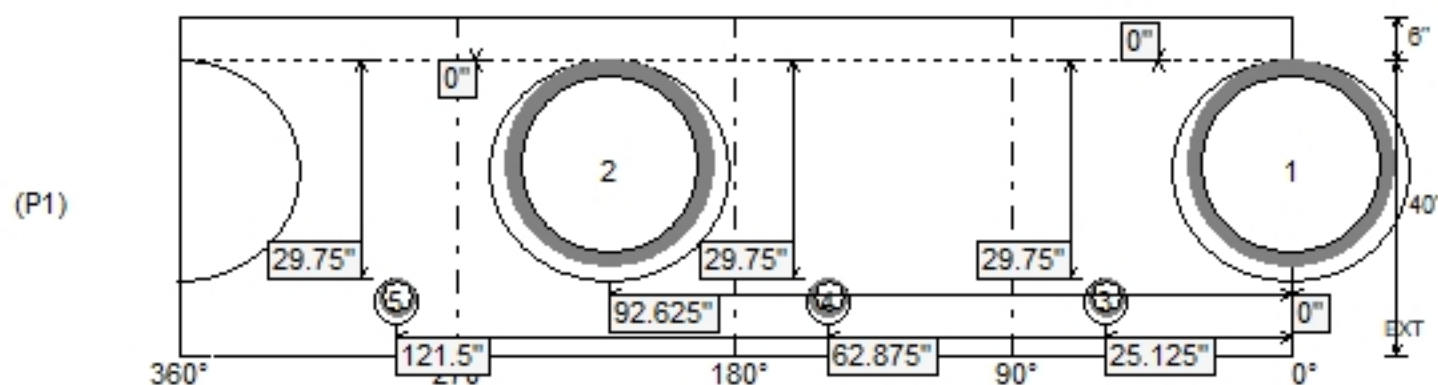
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	486.75'	0°	0"	24" HDPE	27.8"	Hole 30	30"	32.406"	0"	0"
Invert 2	486.75'	221°	111.875"	24" HP STORM	28"	Hole 30	30"	32.406"	0"	0"
Invert 3	489.1'	60°	30.375"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.016"	29.75"	0"
Invert 4	489.1'	150°	75.875"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.016"	29.75"	0"
Invert 5	489.1'	290°	146.75"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.016"	29.75"	0"
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

Height (Int): 40"
 Height (Ext): 46"

Weight (Net): 3457 lb
 Volume (Net): 0.88cu.yd

Job Name: 26-1787 - Kroger Expansion

Job Location: Murray, KY

Contractor: Parker Excavating, LLC.

Plant: 100

7/22/2026 3:24:59 PM

Tech: J. Horsley

PC: J. Jarvis

INFRASTRUCTURE

ICAST

PRECAST

Structure ID: C4 ST-MH

P1MH048BA72

MH BASE T/n

P4) 24" - CASTING HEIGHT - 6.50"

P3) 48" - ECC CONE w/ 24" HOLE F/G - 30"

P2) 48" - MH RISER SPECIAL T/G - 48"

P1) 48" - MH BASE T/n - 72"

1) CASTING - JBS 1020 F/C DRAIN

2) 48" - Conseal CS-102 1.00"

1) Hole - 24

1) Hole - 18

1) Hole - 20

1) Hole - 10

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

0 lb

2050 lb

3320 lb

5919 lb

361 lb

0 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 11650 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. CASTING BY ICAST (JBS 1020 F/C).

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: 505.16'

Rim to Invert: 13'

Slack: 1.1"

Sump: 1.6"

Step Position: 170°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	492.16'	0°	0"	18" HP STORM	21.4"	Hole 24	24"	25.133"	0"	0"
Invert 2	494.5'	100°	50.625"	12" HP STORM	14.5"	Hole 18	18"	18.451"	28.5"	0"
Invert 3	495.87'	240°	121.5"	15" HP STORM	17.7"	Hole 20	20"	20.629"	44.875"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

(P4)

(P3)

(P2)

(P1) <<

Step: 170°
Horz: 71.25"

Invert: 3
Degree: 240°
Horz: 100.5"
Hole: 20"
Up(): 44.875"

Invert: 2
Degree: 100°
Horz: 41.875"
Hole: 18"
Up(): 28.5"

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

+ 0°-

Step: 170°
Horz: 71.25"

Invert: 3
Degree: 240°
Horz: 100.5"
Hole: 20"
Up(): 44.875"

Invert: 2
Degree: 100°
Horz: 41.875"
Hole: 18"
Up(): 28.5"

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

- 0°+

INSIDE WALL DIMENSIONS

360°

270°

180°

90°

0°

44.875"

28.5"

41.875"

100.5"

72"

6"

0"

0"

EXT

1

2

3

Coating (Int):

Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 72"
Height (Ext): 78"

Weight (Net): 5919 lb
Volume (Net): 1.51cu.yd

Job Name: 26-1787 - Kroger Expansion Job Location: Murray, KY Contractor: Parker Excavating, LLC.				Plant: 100 7/22/2026 3:26:21 PM		Tech: J. Horsley PC: J. Jarvis						
Structure ID: C4 ST-MH												
P2		MH048RS48S		MH RISER SPECIAL T/G								
P4) 24" - CASTING HEIGHT - 6.50" P3) 48" - ECC CONE w/ 24" HOLE F/G - 30" P2) 48" - MH RISER SPECIAL T/G - 48" P1) 48" - MH BASE T/n - 72" 1) CASTING - JBS 1020 F/C DRAIN 2) 48" - Conseal CS-102 1.00" 1) Hole - 24 1) Hole - 18 1) Hole - 20 1) Hole - 10 13) MH Step ML-10-TDS-NCR - 10"						0 lb 2050 lb 3320 lb 5919 lb 361 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 11650 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (JBS 1020 F/C). . 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: 505.16' Rim to Invert: 13' Slack: 1.1" Sump: 1.6" Step Position: 170°												
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset		
Invert 1												
Invert 2												
Invert 3												
Invert 4	500.16'	300°	151.875"	6" PVC SDR35	6.25"	Hole 10	10"	10.074"	21.25"	0"		
Invert 5												
Invert 6												
Invert 7												
Invert 8												

(P4)

(P3)

(P2) <<

(P1)

RIGHT-SIDE UP VIEW (int. dimensions)

Step: 170°
Horz: 71.25"

+ 0°-

Invert: 4
Degree: 300°
Horz: 125.625"
Hole: 10"
Up(): 21.25"

INSIDE WALL DIMENSIONS

0°90°180°270°360°

125.625"

21.25"

48"

EXT

(P2)

Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: Groove

Wall Thickness: 5"
Floor Height: 0"

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

Weight (Net): 3320 lb
Volume (Net): 0.85cu.yd

Job Name: 26-2018 - Hancock County Middle School Addition
 Job Location: Lewisport, KY
 Contractor: Mechanical Consultants Inc

Plant: 100

7/23/2026 5:01:31 PM

Tech: Jared - F

PC: T. Lewis



Structure ID: MH 5 SS-MH

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 7"
 P3) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
 P2) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42"
 P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
 1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212
 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
 1) ADMIXTURE CONBLOCK CDA RED
 1) CASTING - HOE MC-375-SS F/C Self-Sealing Sanitary
 1) 48" - Conseal CS-102 1.00" (Double)
 2) 24" - Conseal CS-102 1.00" (Double)
 2) PSX - 12-08 NYLO
 1) PSX - 8QRS-S NYLO
 6) MH Step ML-10-TDS-NCR - 10"

0 lb
 270 lb
 3116 lb
 3309 lb
 0 lb
 0 lb
 1440 lb
 0 lb
 271 lb
 0 lb
 0 lb
 16 lb
 6 lb
 0 lb

Structure Total: 8429 lb

Structure Notes:

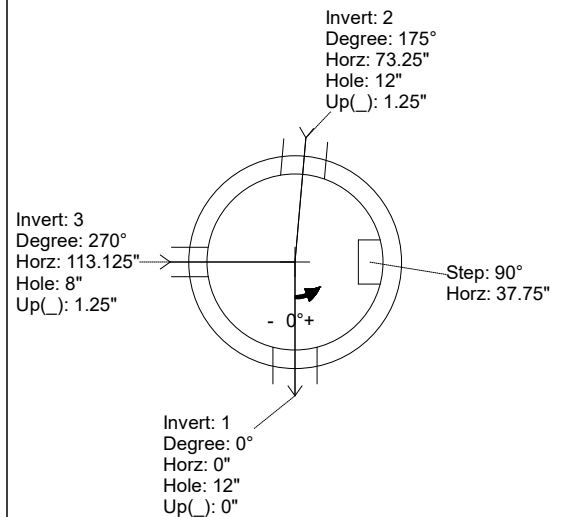
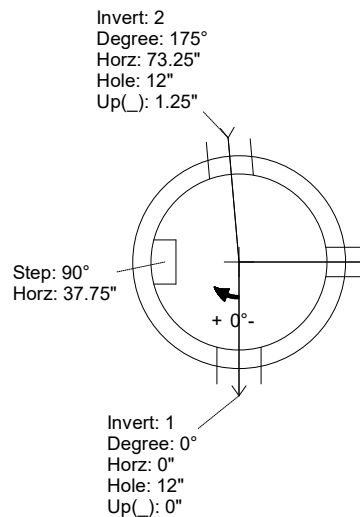
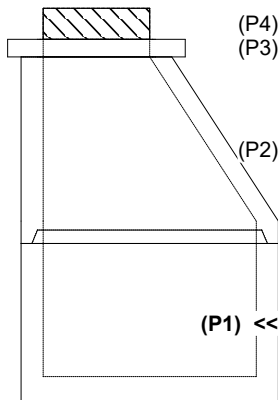
- PER ASTM C478 SPECIFICATIONS.
 - CONCRETE = 4,000 PSI AT 28 DAYS.
 - ADMIXTURE = CONBLOCK CDA RED.
 - CASTING BY ICAST (HOE MC-375-SS F/C SELF-SEALING SANITARY).
- REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 412' Rim to Invert: 6.79' Slack: 0.48" Sump: 2" Step Position: 90°

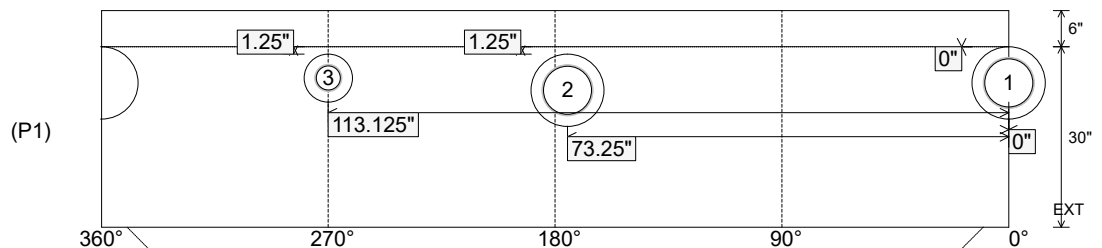
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	405.21'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	405.31'	175°	88.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3	405.31'	270°	136.625"	4" PVC SCH40	4.5"	PSX 8QRS-S NYLO	8"	8.038"	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): 30"
 Height (Ext): 36"

Weight (Net): 3309 lb
 Volume (Net): 0.84cu.yd

Job Name: 26-2018 - Hancock County Middle School Addition
 Job Location: Lewisport, KY
 Contractor: Mechanical Consultants Inc

Plant: 100

7/23/2026 5:01:31 PM

Tech: Jared - F

PC: T. Lewis



Structure ID: MH 5 SS-MH

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 7"
 P3) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
 P2) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42"
 P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
 1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212
 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
 1) ADMIXTURE CONBLOCK CDA RED
 1) CASTING - HOE MC-375-SS F/C Self-Sealing Sanitary
 1) 48" - Conseal CS-102 1.00" (Double)
 2) 24" - Conseal CS-102 1.00" (Double)
 2) PSX - 12-08 NYLO
 1) PSX - 8QRS-S NYLO
 6) MH Step ML-10-TDS-NCR - 10"

0 lb
 270 lb
 3116 lb
 3309 lb
 0 lb
 0 lb
 1440 lb
 0 lb
 271 lb
 0 lb
 0 lb
 16 lb
 6 lb
 0 lb

Structure Notes:

- PER ASTM C478 SPECIFICATIONS.
 - CONCRETE = 4,000 PSI AT 28 DAYS.
 - ADMIXTURE = CONBLOCK CDA RED.
 - CASTING BY ICAST (HOE MC-375-SS F/C SELF-SEALING SANITARY).
- REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

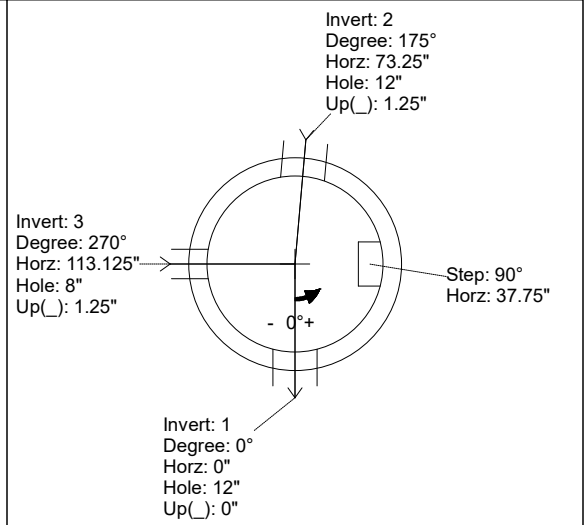
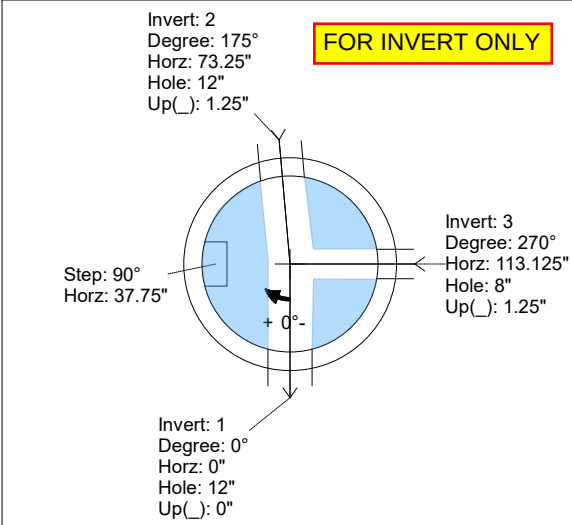
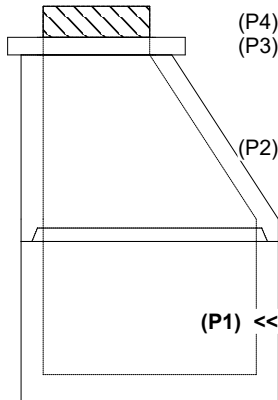
Structure Total: 8429 lb

Rim: 412' Rim to Invert: 6.79' Slack: 0.48" Sump: 2" Step Position: 90°

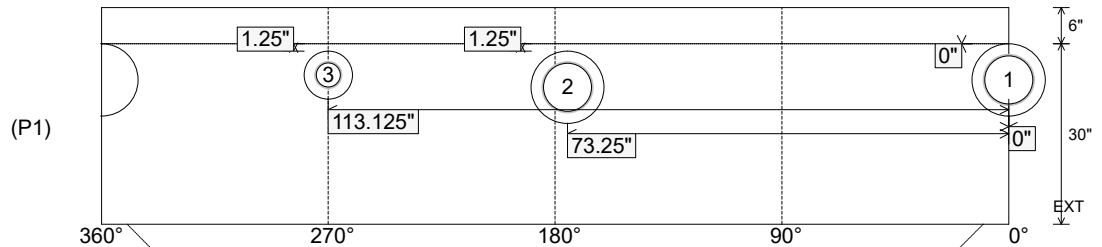
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	405.21'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	405.31'	175°	88.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3	405.31'	270°	136.625"	4" PVC SCH40	4.5"	PSX 8QRS-S NYLO	8"	8.038"	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): 30"
 Height (Ext): 36"

Weight (Net): 3309 lb
 Volume (Net): 0.84cu.yd

Job Name: 26-2018 - Hancock County Middle School Addition
 Job Location: Lewisport, KY
 Contractor: Mechanical Consultants Inc

Plant: 100

7/23/2026 5:01:30 PM

Tech: Jared - F

PC: T. Lewis



Structure ID: MH 4 SS-MH

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 7"
 P3) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
 P2) 48" - MH FLAT TOP w/24" Hole ECC w/ConBlock-CDA Red F/G - 12"
 P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
 1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212
 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
 1) ADMIXTURE CONBLOCK CDA RED
 1) CASTING - HOE MC-375-SS F/C Self-Sealing Sanitary
 1) 48" - Conseal CS-102 1.00" (Double)
 2) 24" - Conseal CS-102 1.00" (Double)
 3) PSX - 12-08 NYLO
 2) MH Step ML-10-TDS-NCR - 10"

0 lb
 270 lb
 1580 lb
 3282 lb
 0 lb
 0 lb
 1440 lb
 0 lb
 271 lb
 0 lb
 0 lb
 24 lb
 0 lb

 Structure Total: 6867 lb

Structure Notes:

- PER ASTM C478 SPECIFICATIONS.
 - CONCRETE = 4,000 PSI AT 28 DAYS.
 - ADMIXTURE = CONBLOCK CDA RED.
 - CASTING BY ICAST (HOE MC-375-SS F/C SELF-SEALING SANITARY).
- REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Structure Total:

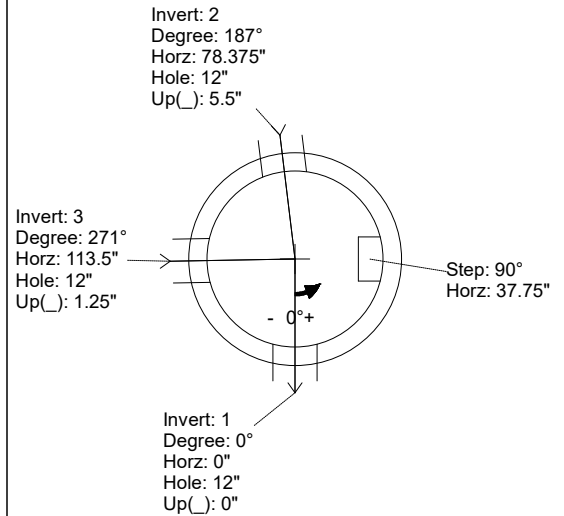
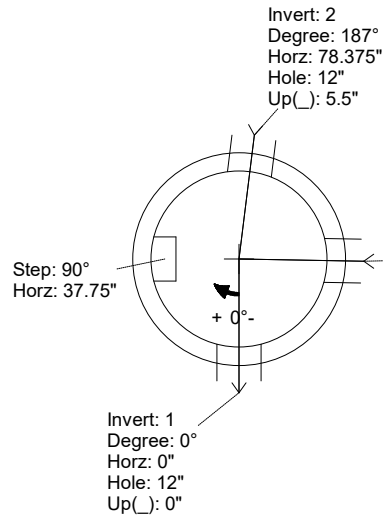
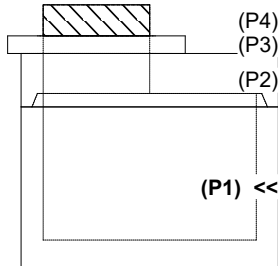
6867 lb

Rim: 410.25' Rim to Invert: 4.35' Slack: 1.2" Sump: 2" Step Position: 90°

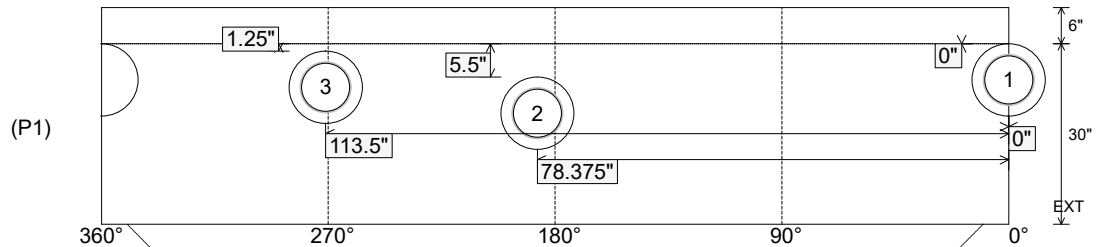
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	405.9'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	406.36'	187°	94.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	5.5"	0"
Invert 3	406'	271°	137.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	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): 30"
 Height (Ext): 36"

Weight (Net): 3282 lb
 Volume (Net): 0.84cu.yd

Job Name: 26-2018 - Hancock County Middle School Addition
 Job Location: Lewisport, KY
 Contractor: Mechanical Consultants Inc

Plant: 100

7/23/2026 5:01:30 PM

Tech: Jared - F

PC: T. Lewis



Structure ID: MH 4 SS-MH

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 7"
 P3) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
 P2) 48" - MH FLAT TOP w/24" Hole ECC w/ConBlock-CDA Red F/G - 12"
 P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
 1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212
 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
 1) ADMIXTURE CONBLOCK CDA RED
 1) CASTING - HOE MC-375-SS F/C Self-Sealing Sanitary
 1) 48" - Conseal CS-102 1.00" (Double)
 2) 24" - Conseal CS-102 1.00" (Double)
 3) PSX - 12-08 NYLO
 2) MH Step ML-10-TDS-NCR - 10"

0 lb
 270 lb
 1580 lb
 3282 lb
 0 lb
 0 lb
 1440 lb
 0 lb
 271 lb
 0 lb
 0 lb
 24 lb
 0 lb

 Structure Total: 6867 lb

Structure Notes:

- PER ASTM C478 SPECIFICATIONS.
 - CONCRETE = 4,000 PSI AT 28 DAYS.
 - ADMIXTURE = CONBLOCK CDA RED.
 - CASTING BY ICAST (HOE MC-375-SS F/C SELF-SEALING SANITARY).
- REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Structure Total:

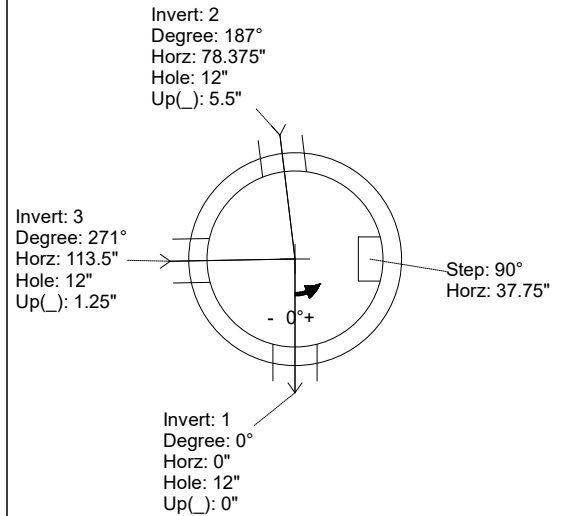
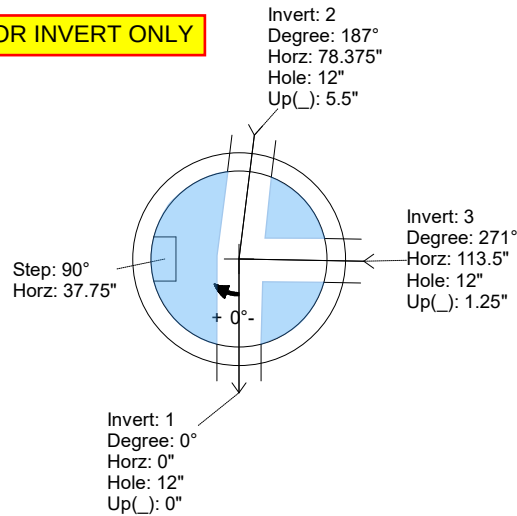
Rim: 410.25' Rim to Invert: 4.35' Slack: 1.2" Sump: 2" Step Position: 90°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	405.9'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	406.36'	187°	94.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	5.5"	0"
Invert 3	406'	271°	137.125"	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										

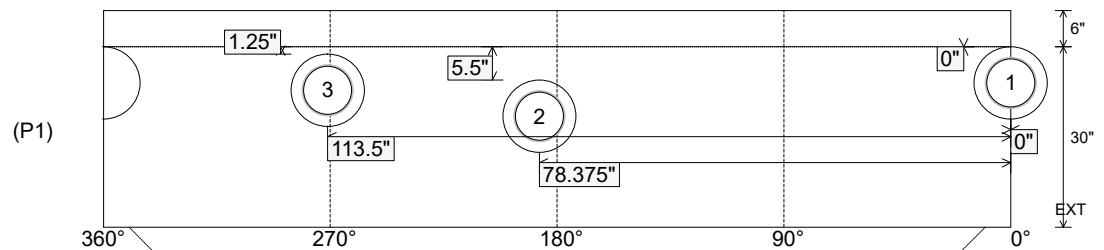
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

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): 30"
 Height (Ext): 36"

Weight (Net): 3282 lb
 Volume (Net): 0.84cu.yd

Job Name: 26-2018 - Hancock County Middle School Addition
Job Location: Lewisport, KY
Contractor: Mechanical Consultants Inc

Plant: 100

7/23/2026 5:02:44 PM

Tech: Jared - F

PC: T. Lewis



Structure ID: MH 4 SS-MH

P2 MH048LD12CDARED

MH FLAT TOP w/24" Hole ECC w/ConBlock-CDA Red F/G

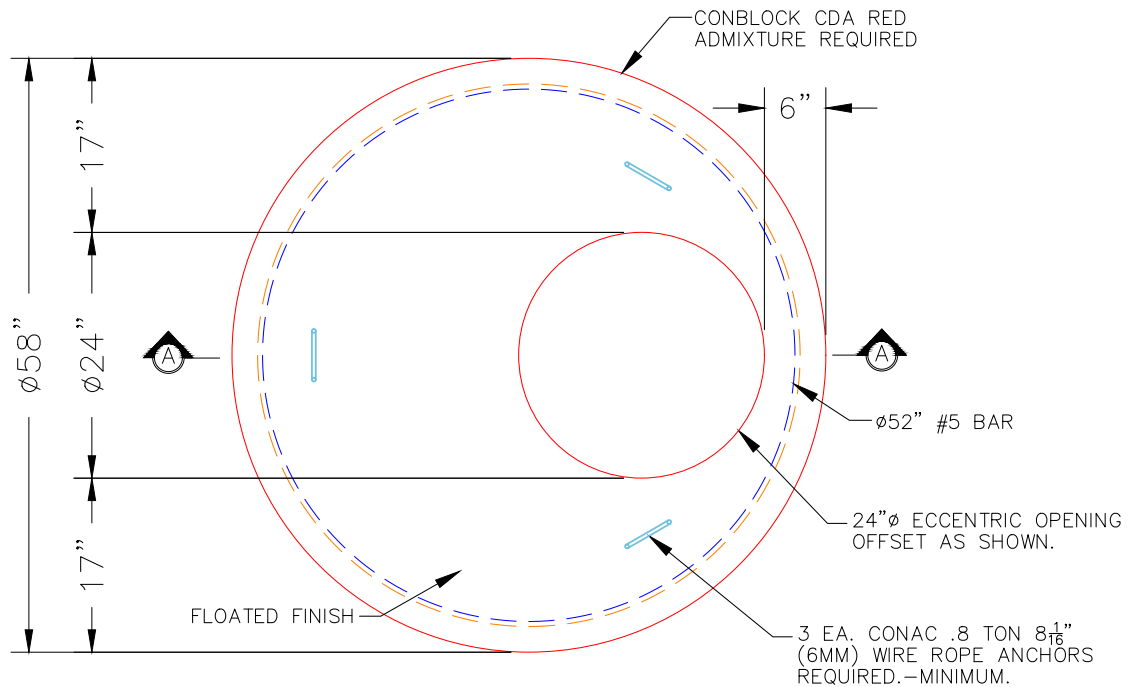
- P4) 24" - CASTING HEIGHT - 7"
P3) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4"
P2) 48" - MH FLAT TOP w/24" Hole ECC w/ConBlock-CDA Red F/G - 12"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) ADMIXTURE CONBLOCK CDA RED
1) CASTING - HOE MC-375-SS F/C Self-Sealing Sanitary
1) 48" - Conseal CS-102 1.00" (Double)
2) 24" - Conseal CS-102 1.00" (Double)
3) PSX - 12-08 NYLO
2) MH Step ML-10-TDS-NCR - 10"

0 lb
270 lb
1580 lb
3282 lb
0 lb
0 lb
1440 lb
0 lb
271 lb
0 lb
0 lb
24 lb
0 lb

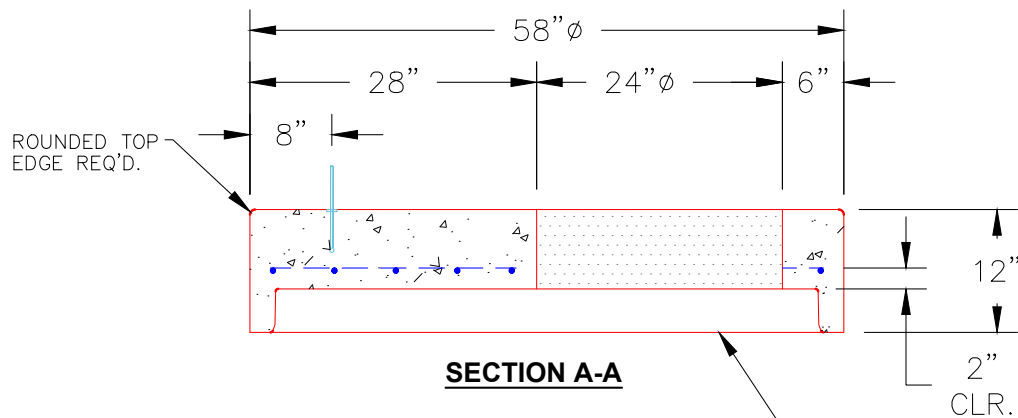
Structure Total: 6867 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. ADMIXTURE = CONBLOCK CDA RED.
 4. CASTING BY ICAST (HOE MC-375-SS F/C SELF-SEALING SANITARY).
- REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.



PLAN VIEW



SECTION A-A

NOTES:

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

Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 12"

Weight (Net): 1580 lb
Volume (Net): 0.39cu.yd

Job Name: 26-2018 - Hancock County Middle School Addition
 Job Location: Lewisport, KY
 Contractor: Mechanical Consultants Inc

Plant: 100

7/23/2026 5:01:30 PM

Tech: Jared - F

PC: T. Lewis



Structure ID: MH 3 SS-MH

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

P3) 24" - CASTING HEIGHT - 7"
 P2) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36"

- P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"
 1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212
 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
 1) ADMIXTURE CONBLOCK CDA RED
 1) CASTING - HOE MC-375-SS F/C Self-Sealing Sanitary
 1) 48" - Conseal CS-102 1.00" (Double)
 1) 24" - Conseal CS-102 1.00" (Double)
 2) PSX - 12-08 NYLO
 1) PSX - 8QRS-S NYLO
 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 2251 lb
 2890 lb
 0 lb
 0 lb
 1440 lb
 0 lb
 271 lb
 0 lb
 0 lb
 0 lb
 16 lb
 6 lb
 0 lb

 Structure Total: 6875 lb

Structure Notes:

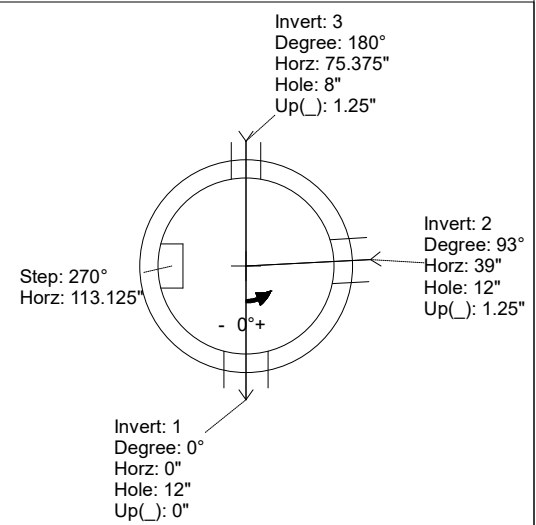
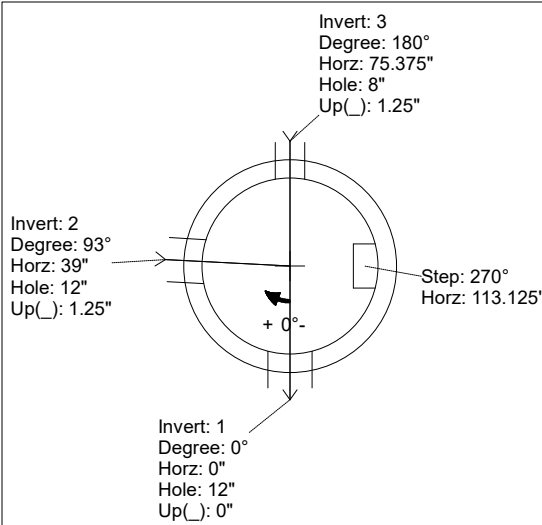
1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. ADMIXTURE = CONBLOCK CDA RED.
 4. CASTING BY ICAST (HOE MC-375-SS F/C SELF-SEALING SANITARY).
- REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 412' Rim to Invert: 5.66' Slack: 2.92" Sump: 2" Step Position: 270°

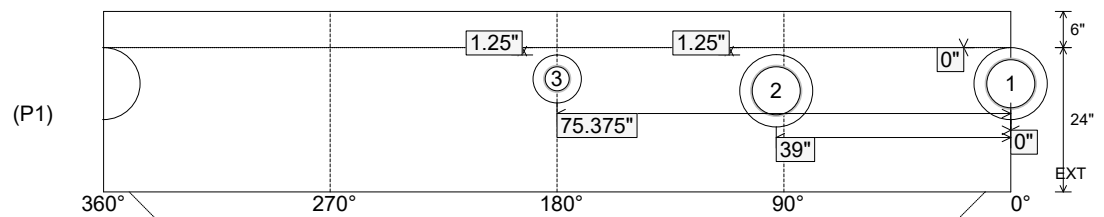
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	406.34'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	406.44'	93°	47.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3	406.44'	180°	91.125"	4" PVC SCH40	4.5"	PSX 8QRS-S NYLO	8"	8.038"	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): 2890 lb
 Volume (Net): 0.74cu.yd

Job Name: 26-2018 - Hancock County Middle School Addition
 Job Location: Lewisport, KY
 Contractor: Mechanical Consultants Inc

Plant: 100

7/23/2026 5:01:30 PM

Tech: Jared - F

PC: T. Lewis



Structure ID: MH 3 SS-MH

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

P3) 24" - CASTING HEIGHT - 7"
 P2) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36"

P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"
 1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212
 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)

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

1) ADMIXTURE CONBLOCK CDA RED
 1) CASTING - HOE MC-375-SS F/C Self-Sealing Sanitary
 1) 48" - Conseal CS-102 1.00" (Double)
 1) 24" - Conseal CS-102 1.00" (Double)
 2) PSX - 12-08 NYLO
 1) PSX - 8QRS-S NYLO
 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 2251 lb
 2890 lb
 0 lb
 0 lb
 1440 lb
 0 lb
 271 lb
 0 lb
 0 lb
 0 lb
 16 lb
 6 lb
 0 lb

 Structure Total: 6875 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. ADMIXTURE = CONBLOCK CDA RED.
 4. CASTING BY ICAST (HOE MC-375-SS F/C SELF-SEALING SANITARY).
- REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

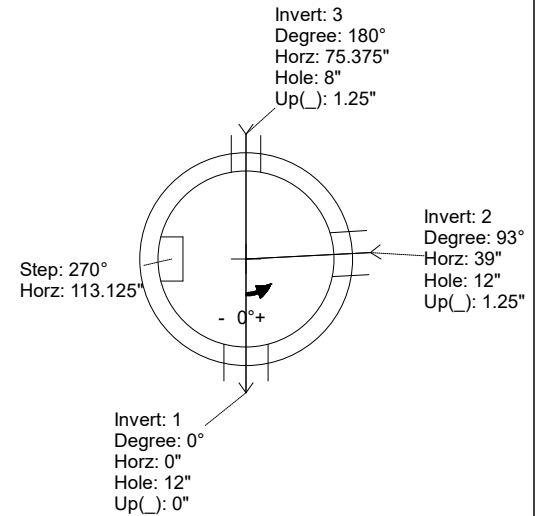
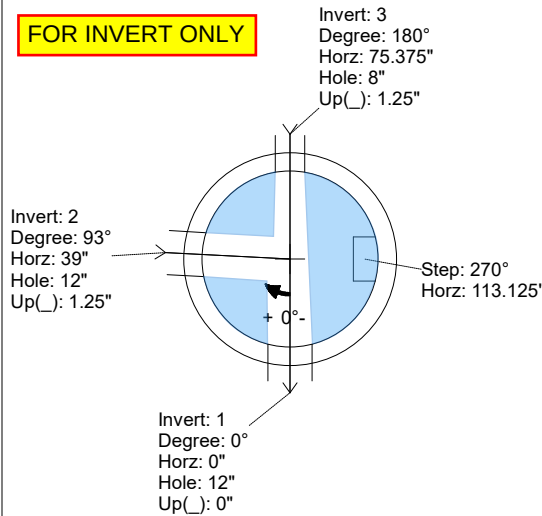
Rim: 412' Rim to Invert: 5.66' Slack: 2.92" Sump: 2" Step Position: 270°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	406.34'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	406.44'	93°	47.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3	406.44'	180°	91.125"	4" PVC SCH40	4.5"	PSX 8QRS-S NYLO	8"	8.038"	1.25"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

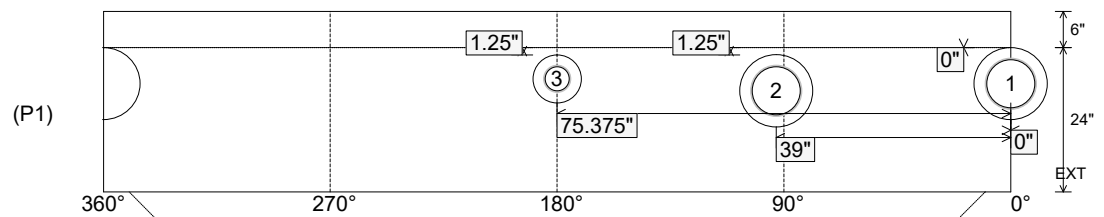
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

FOR INVERT ONLY



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

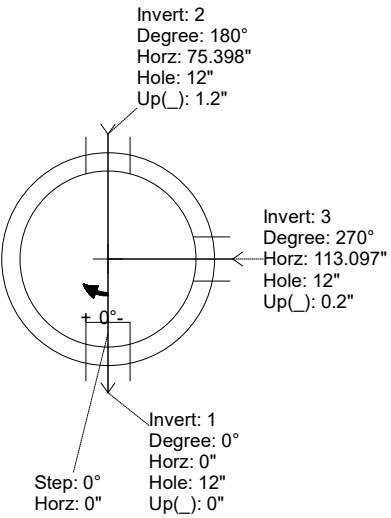
Wall Thickness: 5"
 Floor Height: 6"

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

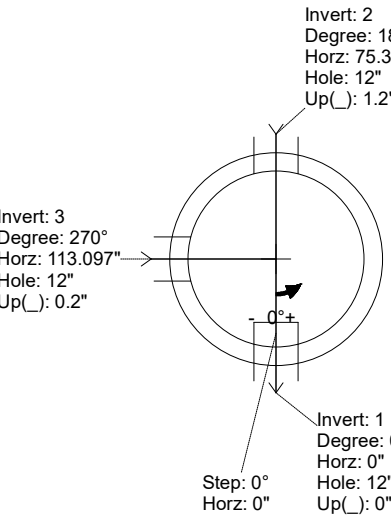
Weight (Net): 2890 lb
 Volume (Net): 0.74cu.yd

Job Name: 25-4288 - Project Wave Job Location: Franklin, KY 42134 Contractor: Cumberland Pipeline LLC					Plant: 100 7/10/2026 8:13:04 AM		Tech: Jared - A PC: Erica Bradley			
Structure ID: A14										
P1 MH048BA24X		MH BASE w/XYPEX								
P5) 24" - CASTING HEIGHT - 7" P4) 48" - ECC XYPEX CONE w/ 24" HOLE - 30" P3) 48" - MH RISER w/XYPEX - 60" P2) 48" - MH RISER w/XYPEX - 60" P1) 48" - MH BASE w/XYPEX - 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/XYPEX - FULL HEIGHT 1) CASTING - JBS 1150 F/C SANITARY 3) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 1) PSX - 12-06 NYLO 15) MH Step ML-10-TDS-NCR - 10"					0 lb 1981 lb 4192 lb 4192 lb 2863 lb 0 lb 0 lb 1440 lb 250 lb 0 lb 0 lb 16 lb 8 lb 0 lb Structure Total: 14941 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. STEPS AT 0 DEGREES 6. JBS 1150 FRAME & COVER "SANITARY" SUPPLIED BY ICAST			
Rim: 730.91' Rim to Invert: 14.98' Slack: 0.76" Sump: 2" Step Position: 0°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	715.93'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	716.03'	180°	91.106"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.2"	0"
Invert 3	716.03'	270°	136.659"	6" PVC SDR35	6.25"	PSX 12-06 NYLO	12"	12.129"	0.2"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

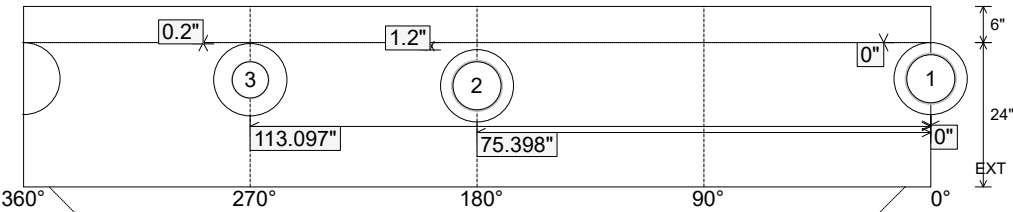
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2863 lb Volume (Net): 0.73cu.yd
----------------------------------	---------------------------------	--	--	--



Coating (Int):	Seam Up: Tongue	Wall Thickness: 5"	Height (Int): 24"	Weight (Net): 2863 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 6"	Height (Ext): 30"	Volume (Net): 0.73cu.yd

Job Name: 26-1787 - Kroger Expansion

Job Location: Murray, KY

Contractor: Parker Excavating, LLC.

Plant: 100

7/22/2026 3:26:23 PM

Tech: J. Horsley

PC: J. Jarvis

INFRASTRUCTURE

ICAST

PRECAST

Structure ID: C5 ST-CI

P3 MH060RSVF

MH RISER Custom Ht F/G

P6) 6" x 36" - CASTING - Curb Back/Hood - 3.50"

P5) 30" x 36" - CASTING - Frame&Grate F/F - 6.50"

P4) 60" - MH FLAT TOP w/30"x36" Hole F/F - 8"

P3) 60" - MH RISER Custom Ht F/G - 60"

P2) 60" - MH RISER T/G - 48"

P1) 60" - MH BASE T/n - 48"

1) CASTING - JBS 2064-V SET (F/G/H)

3) 60" - Conseal CS-102 1.00"

1) Hole - 30

1) Hole - 24

4) Hole - 6

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

0 lb

0 lb

2008 lb

6207 lb

5011 lb

7141 lb

500 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 20867 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. CASTING BY ICAST (JBS 2064 F/G/H).

REINFORCING PER ASTM A615 (GRADE 60).

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

- RISER/WALLS (As .18)

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

Rim: 503.99'

Rim to Invert: 14.36'

Slack: 0.27"

Sump: 1.95"

Step Position: 111°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (⌋)	Offset
Invert 1										
Invert 2										
Invert 3	501.4'	45°	28.25"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.01"	42"	0"
Invert 4	501.4'	135°	84.875"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.01"	42"	0"
Invert 5	501.4'	225°	141.375"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.01"	42"	0"
Invert 6	501.4'	315°	197.875"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.01"	42"	0"
Invert 7										
Invert 8										

(P6)

(P5)

(P4)

(P3) <<

(P2)

(P1)

RIGHT-SIDE UP VIEW (int. dimensions)

Invert: 4

Degree: 135°

Horz: 70.625"

Hole: 6"

Up(⌋): 42"

Step: 111°

Horz: 58.125"

Invert: 5

Degree: 225°

Horz: 117.75"

Hole: 6"

Up(⌋): 42"

Invert: 6

Degree: 315°

Horz: 164.875"

Hole: 6"

Up(⌋): 42"

Invert: 3

Degree: 45°

Horz: 23.5"

Hole: 6"

Up(⌋): 42"

+ 0°-

INSIDE WALL DIMENSIONS

0°

23.5"

90°

70.625"

180°

117.75"

270°

164.875"

360°

ⓐ

42"

ⓑ

42"

ⓒ

42"

ⓓ

42"

EXT

60"

Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: Groove

Wall Thickness: 6"

Floor Height: 0"

Height (Int): 60"

Height (Ext): 60"

Weight (Net): 6207 lb

Volume (Net): 1.58cu.yd

Coating (Int):	Seam Up: Flat	Wall Thickness: 6"	Height (Ext): 8"	Weight (Net): 2008 lb
Coating (Ext):	Seam Dn: Flat			Volume (Net): 0.51cu.yd

Job Name: 26-1787 - Kroger Expansion

Job Location: Murray, KY

Contractor: Parker Excavating, LLC.

Plant: 100

7/22/2026 3:26:21 PM

Tech: J. Horsley

PC: J. Jarvis



Structure ID: C3 ST-CI

P2 MH060RSVF

MH RISER Custom Ht F/G

P5) 6" x 36" - CASTING - Curb Back/Hood - 3.50"

P4) 30" x 36" - CASTING - Frame&Grate F/F - 6.50"

P3) 60" - MH FLAT TOP w/30"x36" Hole F/F - 8"

P2) 60" - MH RISER Custom Ht F/G - 43"

P1) 60" - MH BASE Custom Ht T/n - 36"

1) CASTING - JBS 2064-V SET (F/G/H)

1) 60" - Conseal CS-102 1.00"

1) 60" - Conseal CS-231 1.00"

1) Hole - 18

4) Hole - 6

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

0 lb

0 lb

2008 lb

4432 lb

6362 lb

500 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 13302 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. CASTING BY ICAST (JBS 2064 F/G/H).

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: 503.2'

Rim to Invert: 8.02'

Slack: 0.39"

Sump: 1.15"

Step Position: 180°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (⌋)	Offset
Invert 1										
Invert 2	500.675'	45°	28.25"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.01"	26"	0"
Invert 3	500.675'	135°	84.875"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.01"	26"	0"
Invert 4	500.675'	225°	141.375"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.01"	26"	0"
Invert 5	500.675'	315°	197.875"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6.01"	26"	0"
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

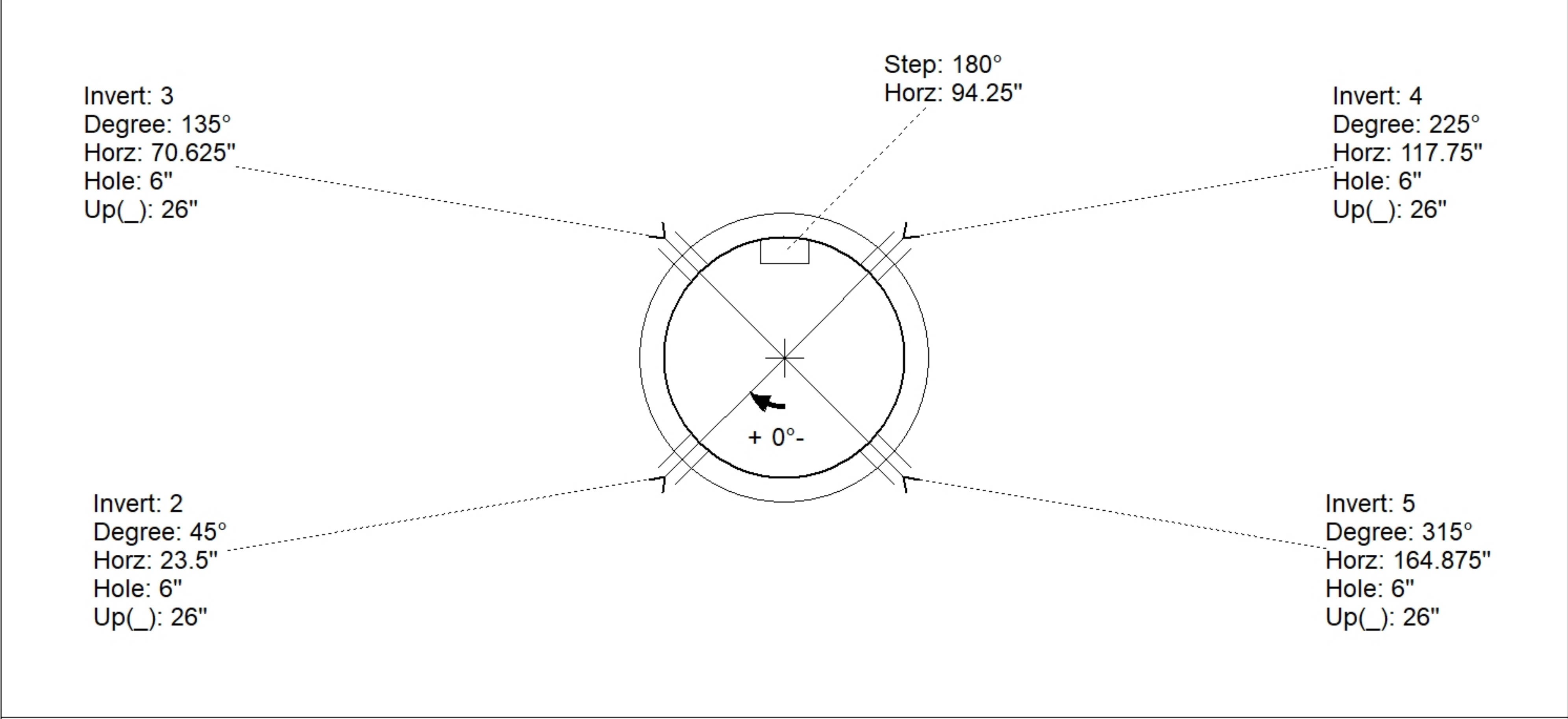
(P5)

(P4)

(P3)

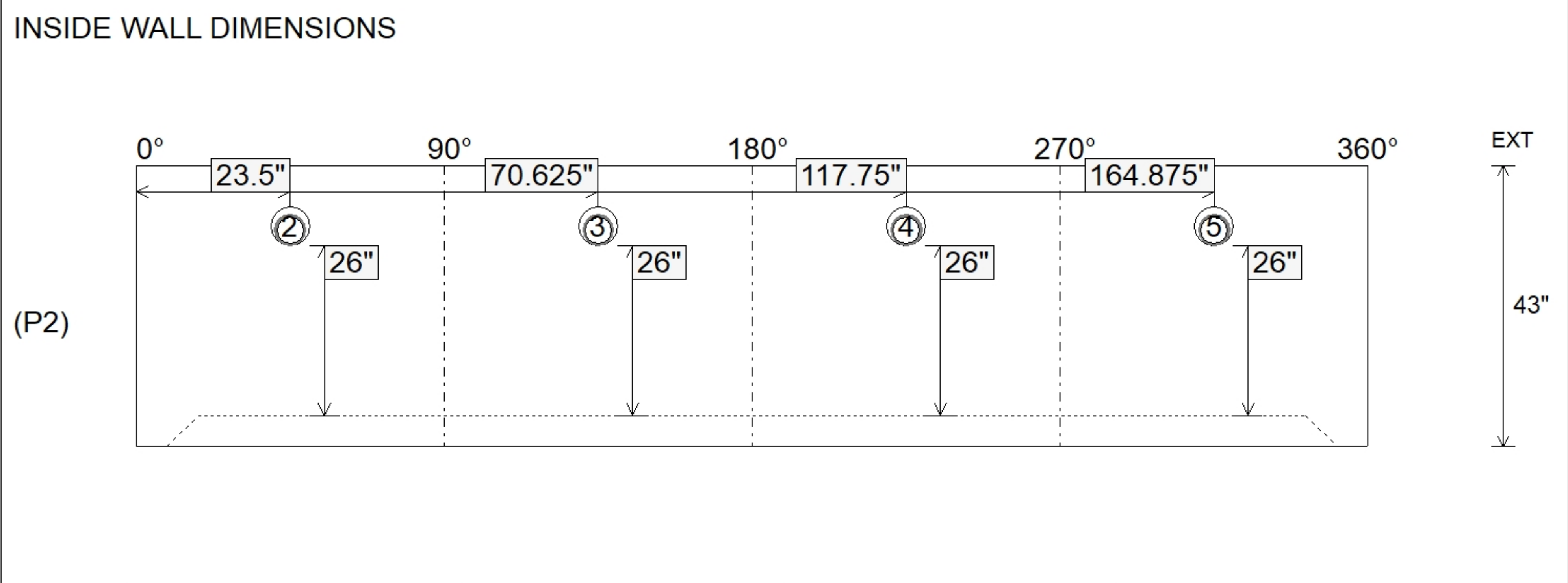
(P2) <<

(P1)



INSIDE WALL DIMENSIONS

(P2)



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: Groove

Wall Thickness: 6"

Floor Height: 0"

Height (Int): 43"

Height (Ext): 43"

Weight (Net): 4432 lb

Volume (Net): 1.13cu.yd

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

Plant: 100

3/27/2026 11:40:26 AM

Tech: J. Horsley - A

PC: Celina Goff



Structure ID: 2301555

P2 MH060TS15-48ECC

MH Transition Slab 48" Hole T/G

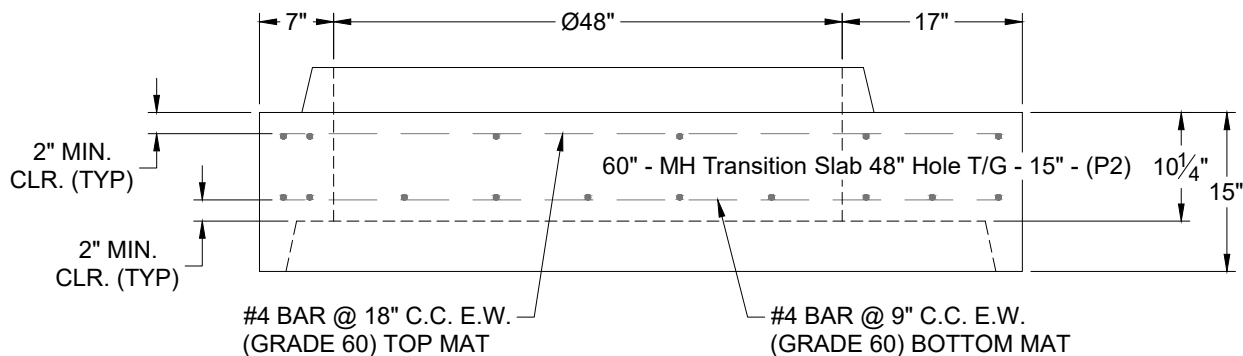
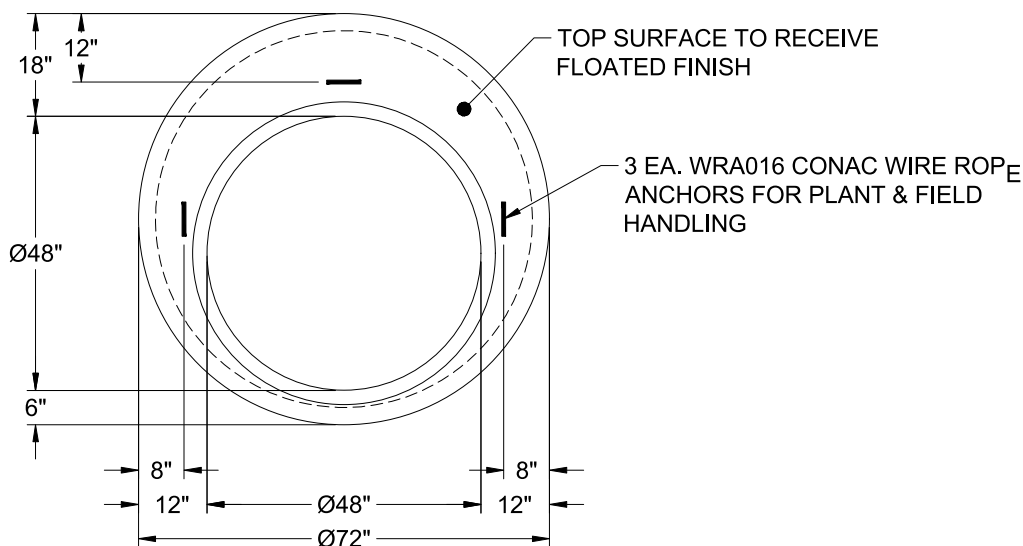
P5) 24" - CASTING HEIGHT - 7"
P4) 48" - CON CONE w/24" HOLE F/G - 24"
P3) 48" - MH RISER T/G - 48"
P2) 60" - MH Transition Slab 48" Hole T/G - 15"
P1) 60" - MH BASE T/n - 72"
1) 60" - MH INVERT CHANNEL - FULL HEIGHT
1) 60" - Conseal CS-102 1.00" (Double)
2) 48" - Conseal CS-102 1.00" (Double)
2) A-Lok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

Structure Total:

0 lb
2252 lb
3353 lb
2204 lb
8895 lb
2692 lb
0 lb
0 lb
2 lb
0 lb
19398 lb

Structure Notes:

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



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 15"

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

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements

Job Location: Fort Mitchell, KY 41017

Contractor: Lykins Contracting

Plant: 100

3/20/2026 1:21:53 PM

Tech: J. Horsley - A

PC: Celina Goff

Structure ID: 2301565

P1 MH060DPVF

MH BASE w/DROP Custom Ht T/n

P6) 24" - CASTING HEIGHT - 7"

P5) 24" - GRADE RING F/F - 3"

P4) 48" - CON CONE w/24" HOLE F/G - 36"

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

P2) 60" - MH Transition Slab 48" Hole T/G - 15"

P1) 60" - MH BASE w/DROP Custom Ht T/n - 72"

1) 60" - MH INVERT CHANNEL - FULL HEIGHT

1) SECONDARY POUR - Add Exterior Drop to Base (P1)

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

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

2) A-Lok - 1235

1) Drop Tee - 8" PVC

1) Drop Elbow - 8" PVC

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

0 lb

202 lb

2252 lb

3353 lb

2204 lb

8838 lb

2692 lb

3440 lb

0 lb

0 lb

2 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 22984 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT:

- WALLS: PER ASTM A615 - DOUBLE MAT

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

4. INVERT CHANNEL REQUIRED

5. STEPS AT 75 DEGREES

6. 7" CASTING SUPPLIED BY OTHERS

7. EXTERIOR DROP AT INVERTS 2 & 4 SUPPLIED BY ICAST

First Pour (Base): 8,838 LBS

Second Pour (Drop): 3,440 LBS

Rim: 760.2'

Rim to Invert: 14.96'

Slack: 1.52"

Sump: 3"

Step Position: 75°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	745.24'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	749.69'	128°	80.375"	8" PVC SDR35	8.5"	Drop Tee 8" PVC	8.5"	8.529"	56.125"	0"
Invert 3	745.34'	216°	135.75"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"
Invert 4	747.04'	128°	80.375"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.529"	24.375"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 6"

Floor Height: 8"

Height (Int): 72"

Height (Ext): 80"

Weight (Net): 8838 lb

Volume (Net): 2.26cu.yd



Weight (Net): 8838 lb
Volume (Net): 2.26cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements

Job Location: Fort Mitchell, KY 41017

Contractor: Lykins Contracting

Plant: 100

3/20/2026 1:21:53 PM

Tech: J. Horsley - A

PC: Celina Goff

Structure ID: 2301565

P1 MH060DPVF

MH BASE w/DROP Custom Ht T/n

P6) 24" - CASTING HEIGHT - 7"

P5) 24" - GRADE RING F/F - 3"

P4) 48" - CON CONE w/24" HOLE F/G - 36"

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

P2) 60" - MH Transition Slab 48" Hole T/G - 15"

P1) 60" - MH BASE w/DROP Custom Ht T/n - 72"

1) 60" - MH INVERT CHANNEL - FULL HEIGHT

1) SECONDARY POUR - Add Exterior Drop to Base (P1)

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

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

2) A-Lok - 1235

1) Drop Tee - 8" PVC

1) Drop Elbow - 8" PVC

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

0 lb

202 lb

2252 lb

3353 lb

2204 lb

8838 lb

2692 lb

3440 lb

0 lb

0 lb

2 lb

0 lb

0 lb

0 lb

0 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS

2. CONCRETE: 4,000 PSI AT 28 DAYS

3. REINFORCEMENT:

- WALLS: PER ASTM A615 - DOUBLE MAT

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

4. INVERT CHANNEL REQUIRED

5. STEPS AT 75 DEGREES

6. 7" CASTING SUPPLIED BY OTHERS

7. EXTERIOR DROP AT INVERTS 2 & 4 SUPPLIED BY ICAST

Structure Total: 22984 lb

Rim: 760.2'

Rim to Invert: 14.96'

Slack: 1.52"

Sump: 3"

Step Position: 75°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	745.24'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	749.69'	128°	80.375"	8" PVC SDR35	8.5"	Drop Tee 8" PVC	8.5"	8.529"	56.125"	0"
Invert 3	745.34'	216°	135.75"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"
Invert 4	747.04'	128°	80.375"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.529"	24.375"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 6"

Floor Height: 8"

Height (Int): 72"

Height (Ext): 80"

Weight (Net): 8838 lb

Volume (Net): 2.26cu.yd

Job Name: 26-3009 ADS FedEx Mt. Juliet

Job Location: Mt. Juliet, TN

Contractor: ADS Advanced Drainage Systems, Inc.

Plant: Beaver Dam

7/23/2026 8:35:30 AM

Tech: S. Felletter

PC: T. Ryan



Structure ID: S07

P3MH096RSVF

MH RISER Custom Ht F/G

P5) 24" - CASTING HEIGHT - 7"

P4) 96" - MH FLAT TOP w/ 24" Conc. Hole F/F - 10"

P3) 96" - MH RISER Custom Ht F/G - 57"

P2) 96" - MH RISER T/G - 66"

P1) 96" - MH BASE Custom Ht T/n - 40"

1) ASSEMBLY REQUIRED - BRACKETS ONLY

1) CASTING - HOE MC-375 F/C Storm

3) 96" - Conseal CS-102 1.00"

1) 24" - Conseal CS-102 1.00"

2) Hole - 30

0 lb

8185 lb

13117 lb

16442 lb

16817 lb

0 lb

271 lb

0 lb

0 lb

0 lb

Structure Total: 54831 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

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

3. CASTING BY ICAST (HOE MC-375 F/C "STORM").

4. LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE.

5. ASSEMBLY REQUIRED - BRACKETS ONLY.

6. P2 & P3 RISERS TO BE MECHANICALLY ATTACHED PRIOR TO INTERNAL INSTALLATION/DELIVERY

REINFORCING PER ASTM A615 (GRADE 60).

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

- RISER/WALLS (As .24)

- FLOOR (As .47) #5 BARS AT 8" C.C.E.W.

Rim: 556'

Rim to Invert: 4'

Slack: 0"

Sump: 132"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	552'	0°	0"	24" HDPE	27.8"	Hole 30	30"	30.511"	18"	0"
Invert 2	552'	120°	119.381"	24" HDPE	27.8"	Hole 30	30"	30.511"	18"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

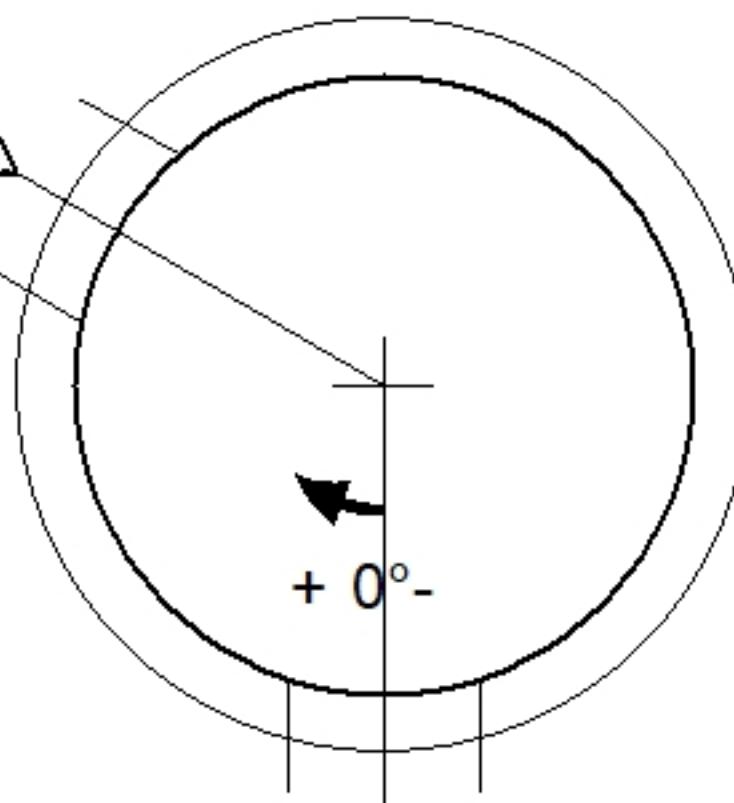
Invert: 2

Degree: 120°

Horz: 100.531"

Hole: 30"

Up(): 18"



Invert: 1

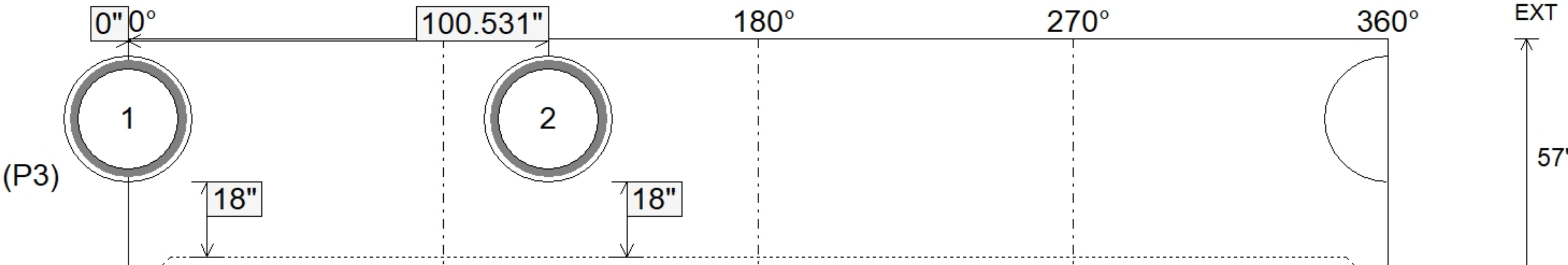
Degree: 0°

Horz: 0"

Hole: 30"

Up(): 18"

INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: Groove

Wall Thickness: 9"

Floor Height: 0"

Height (Int): 57"

Height (Ext): 57"

Weight (Net): 13117 lb

Volume (Net): 3.35cu.yd

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

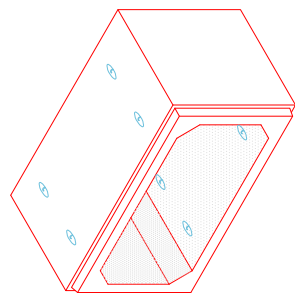
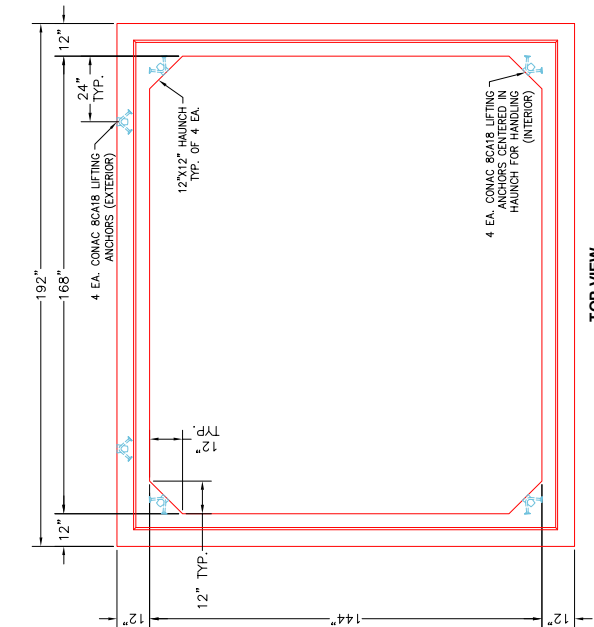
Plant: 100
7/6/2026 1:23:11 PM

Tech: Jared - A
PC: E. Bradley

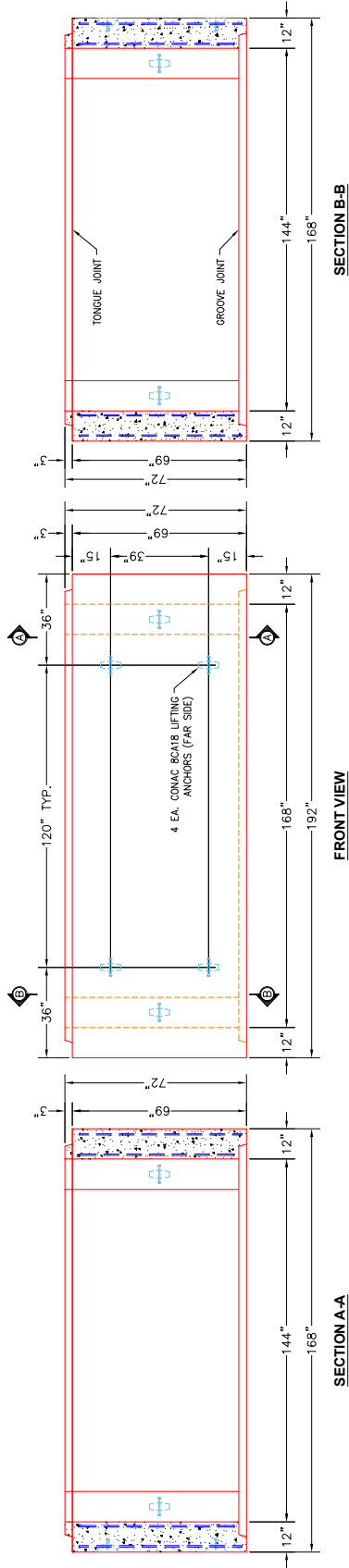
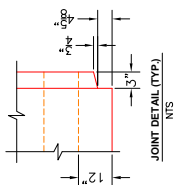


Structure ID: Box Culvert
P4 BC168144-12W12T12F-12H BOX CULVERT (12W/12F/12T) T/G

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

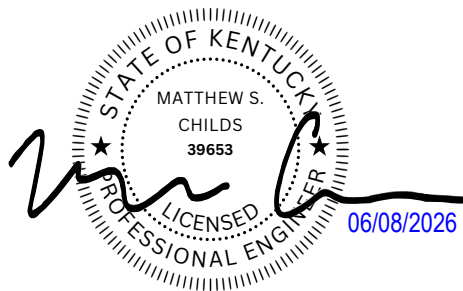


COMPONENT ISOMETRIC VIEW



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

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



MATT CHILDS ENGINEERING, PLLC

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

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

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

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

Physical Dimensions

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

Material Properties

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

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

Soil
Density: 0.120 kcf

Exposure Factor
Class 2 Exposure

Reinforcement Covers

Ext. Cover Top Slab:	1"
Ext. Cover Bottom Slab	1"
Ext. Cover Walls	1"
Int. Cover Walls	1"
Int. Cover Top Slab	1"
Int. Cover Bottom Slab	1"

Controlling Ratings

Inventory Rating: 5.85
Operating Rating: 7.59

Loads

Live Load

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

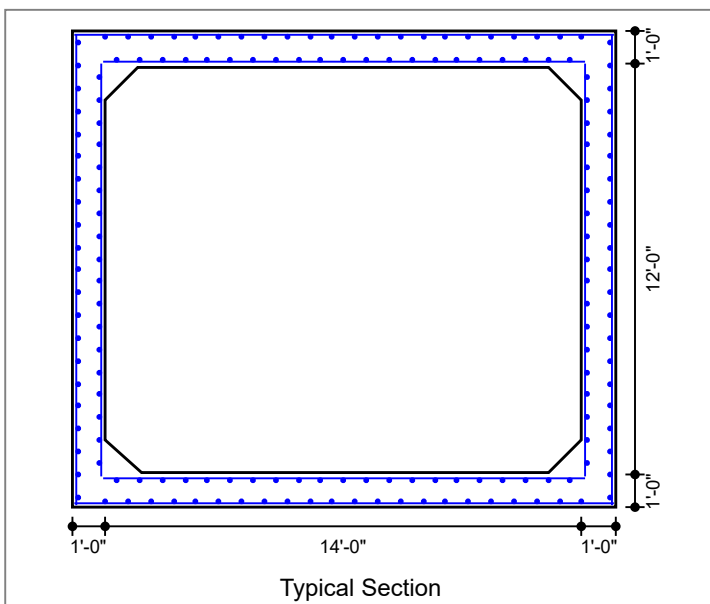
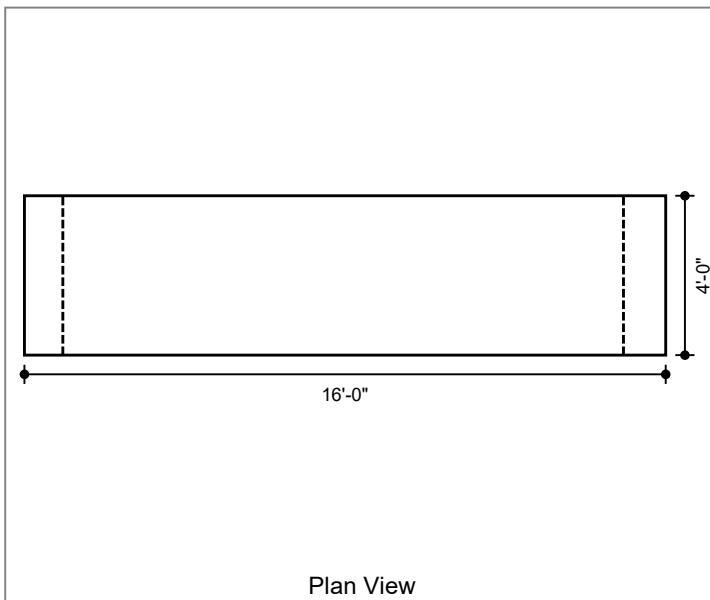
Dead Load

Future Wearing Surface:	0.000 klf
Additional Dead Load:	0.000 klf
Concentrated Loads:	none

Lateral Soil Loads

Eq. Fluid Press. Max:	60.00 pcf
Eq. Fluid Press. Min:	30.00 pcf

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



MATT CHILDS ENGINEERING, PLLC

Sht ____ of ____

By:MBJ

Ck:_____

6/5/2026 4:35:09 PM

p. 2 of 2

Project : City of Wilder

Task : 14x12 15' Fill

Job No. :

Client: ICast

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

Concrete Summary

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

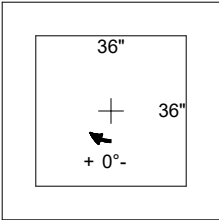
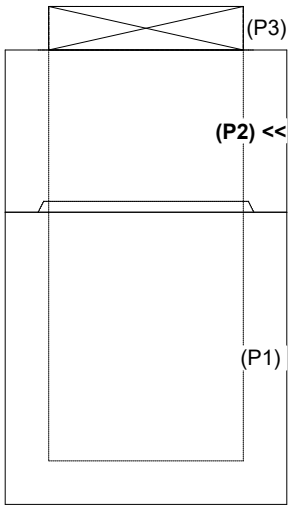
Reinforcing Steel Bar Schedule (lb)

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

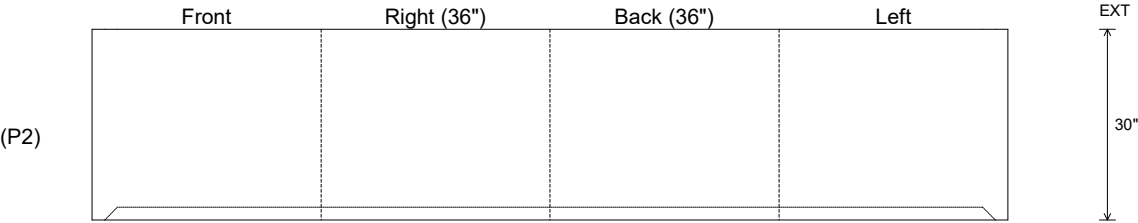
P3) 36" x 36" - P.I.P. - BY OTHERS - 8"					0 lb	Structure Notes: -KYTC STATE PROJECT 251007 -REINFORCING: #5 BAR @ 12" C/C E.W. (TYP.) -TOP SLAB WITH FRAME & GRATES BY OTHERS (NO APRON). -CS-102 BUTYL REQUIRED (SUPPLIED BY ICAST). -KYTC CERTIFICATIONS REQUIRED. -#5 BAR EXTENDED OUT OF TOP OF RISER 20" AT 12" C/C.
P2) 36" x 36" - BOX RISER 8inW - 30"					3544 lb	
P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 46"					7079 lb	
1) 36" x 36" - Conseal CS-102 1.00"					0 lb	
1) Hole - 18					0 lb	
Structure Total:					10624 lb	
Rim: 562.8' Rim to Invert: 7' Slack: 0" Sump: 0" Step Position:						

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

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 8" Floor Height: 0"	Height (Int): 30" Height (Ext): 30"	Weight (Net): 3544 lb Volume (Net): 0.9cu.yd
----------------------------------	----------------------------------	--	--	---

Job Name: 25-1684P13 KYTC Jefferson Co. Call 200 (251007)
Job Location: I-264 Louisville, Ky.
Contractor: Cleary Construction, Inc.

Plant: Beaver Dam, Ky.

7/21/2026 12:34:09 PM

Tech: N. Richards

PC: J. Jarvis



Structure ID: 5132+72 RT DBI TYPE 1-NA

P1 BX3636-08BAVF

BOX BASE 8inW, 8inF, Variable Ht

- P3) 36" x 36" - P.I.P. - BY OTHERS - 8"
P2) 36" x 36" - BOX RISER 8inW - 30"
P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht - 46"
1) 36" x 36" - Conseal CS-102 1.00"
1) Hole - 18"

Structure Total:

0 lb
3544 lb
7079 lb
0 lb
0 lb

10624 lb

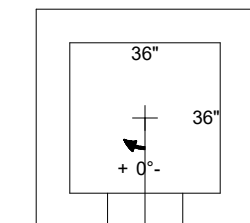
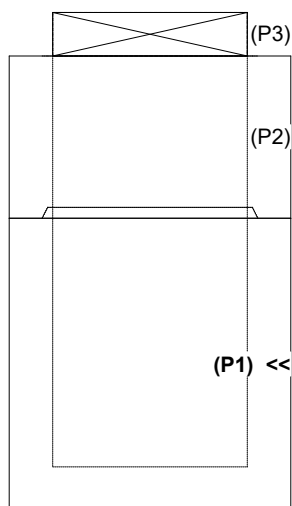
Structure Notes:
-KYTC STATE PROJECT 251007
-REINFORCING: #5 BAR @ 12" C/C E.W. (TYP.)
-TOP SLAB WITH FRAME & GRATES BY OTHERS (NO APRON).
-CS-102 BUTYL REQUIRED (SUPPLIED BY ICAST).
-KYTC CERTIFICATIONS REQUIRED.
-#5 BAR EXTENDED OUT OF TOP OF RISER 20" AT 12" C/C.

Rim: 562.8' Rim to Invert: 7' Slack: 0" Sump: 0" Step Position:

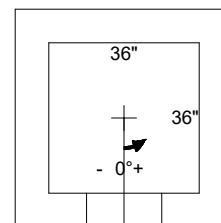
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	555.8'	0°	26"	15" CMP	16"	Hole 18	18"	18"	-1.5"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



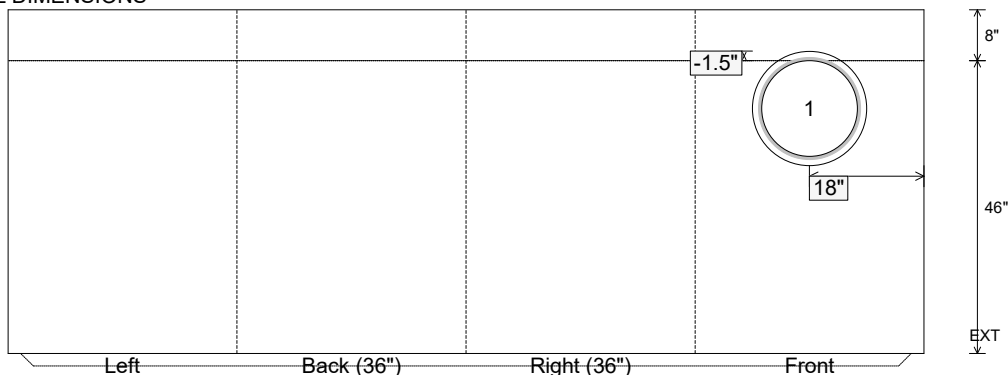
Invert: 1
Degree: 0°
Horz: 18"
Hole: 18"
Up(): -1.5"



Invert: 1
Degree: 0°
Horz: 18"
Hole: 18"
Up(): -1.5"

INSIDE WALL DIMENSIONS

(P1)



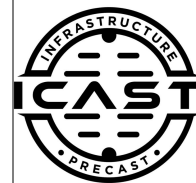
Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 46"
Height (Ext): 54"

Weight (Net): 7079 lb
Volume (Net): 1.81cu.yd



Weight (Net): 4385 lb
Volume (Net): 1.12cu.yd

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

Job Location: Independence, KY

Contractor: Eaton Asphalt

Plant: 100

6/4/2026 4:51:05 PM

Tech: Jared - A

PC: J. Jarvis

Structure ID: 566

P1 BX2436-08BVF

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

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

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

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

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

1) This Structure Includes a Cast-in Item - KY-206 Frame (Supplied by iCast)

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

1) Hole - 24

2) Hole - 8

3400 lb

5270 lb

4536 lb

206 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 13411 lb

Structure Notes:

** KYTC STATE PROJECT **

1. PER KYTC CBI TY A / ASTM C-913 SPECS

2. CONCRETE: 4,000 PSI AT 28 DAYS

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

4. NO STORM INVERT

5. NO STEPS

6. KY-206 FRAME & COVER "STORM" SUPPLIED BY iCAST - FRAME TO BE CAST INTO TOP PHASE TOP FLANGE SIDE UP

7. INVERT 2 OFFSET 14" FROM CENTER OF WALL

Rim: 855.54'

Rim to Invert: 5.09'

Slack: 0.08"

Sump: 0"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	850.45'	0°	20"	18" ADS N-12	22"	Hole 24	24"	24"	-3"	0"
Invert 2	852.37'	90°	12"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	21"	-14"
Invert 3	852.37'	180°	20"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	21"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

INSIDE WALL DIMENSIONS

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 8"

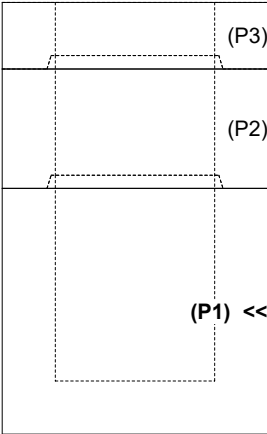
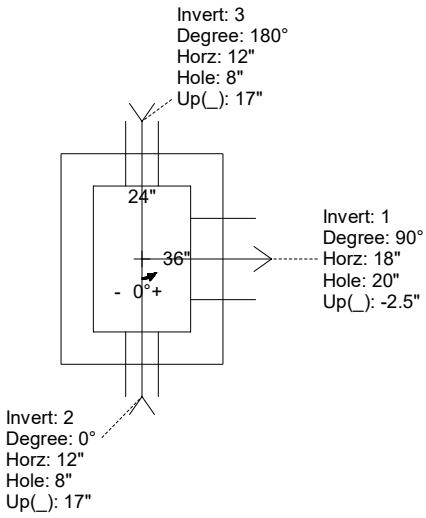
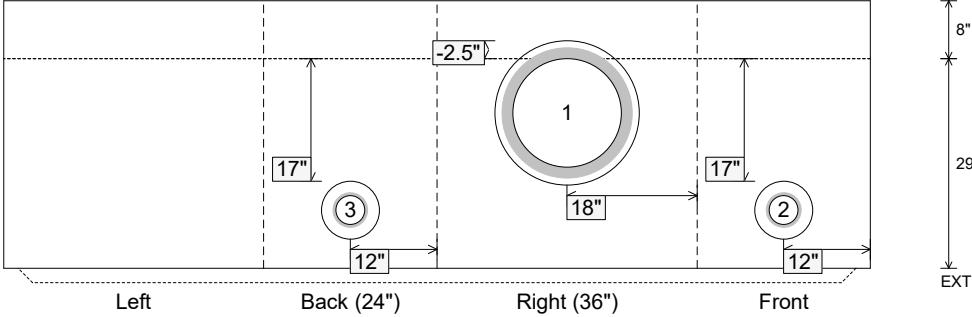
Floor Height: 8"

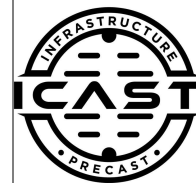
Height (Int): 33"

Height (Ext): 41"

Weight (Net): 4536 lb

Volume (Net): 1.16cu.yd

Job Name: 25-3193 - KYTC Kenton Co Call 328 (251320) Job Location: Independence, KY Contractor: Eaton Asphalt					Plant: 100 6/4/2026 4:52:27 PM		Tech: Jared - A PC: J. Jarvis																
Structure ID: 573																							
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 - 29" 1) CASTING - HOE KY-206 F/C (KY TY1) 1) This Structure Includes a Cast-in Item - KY-206 Frame (Supplied by iCast) 1) 24" x 36" - Conseal CS-102 1.00" 1) Hole - 20 2) Hole - 8						3400 lb 5270 lb 4077 lb 206 lb 0 lb 0 lb 0 lb 0 lb		Structure Notes: ** KYTC STATE PROJECT ** 1. PER KYTC CBI TY A / ASTM C-913 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. NO STORM INVERT 5. NO STEPS 6. KY-206 FRAME & COVER "STORM" SUPPLIED BY ICAST - FRAME TO BE CAST INTO TOP PHASE TOP FLANGE SIDE UP															
Rim: 860.26'						Rim to Invert: 4.75'		Slack: 0"		Sump: 0"		Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset													
Invert 1	855.51'	90°	26"	15" ADS N-12	18"	Hole 20	20"	20"	-2.5"	0"													
Invert 2	857.09'	0°	20"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	17"	0"													
Invert 3	857.09'	180°	20"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8"	17"	0"													
Invert 4																							
Invert 5																							
Invert 6																							
Invert 7																							
Invert 8																							
RIGHT-SIDE UP VIEW (int. dimensions)												UPSIDE-DOWN VIEW (int. dimensions)											
																							
INSIDE WALL DIMENSIONS																							
																							
Coating (Int): Coating (Ext):				Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 8" Floor Height: 8"		Height (Int): 29" Height (Ext): 37"		Weight (Net): 4077 lb Volume (Net): 1.04cu.yd													



Weight (Net): 9184 lb
Volume (Net): 2.35cu.yd

Job Name: 25-1401 Irwin Landing Ph. 1

Job Location: Murfreesboro, TN

Contractor: Bear Construction LLC

Plant: Beaver Dam

6/9/2026 10:37:24 AM

Tech: S. Felletter

PC: Erica Bradley



Structure ID: R43

P1 BX4848-08BA60

BOX BASE 8inW, 8inF T/n

- P4) 20" x 34" - CASTING HEIGHT - 7"

P3) 48" x 48" - BX FLAT LID 8"W - TDOT 10SB (20"x34" Hole) F/F - 10"

P2) 48" x 48" - BOX RISER 8inW F/G - 24"

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

1) 48" x 48" - STORM INVERT CHANNEL (FLAT) - 4" THK

1) CASTING - JBS 3123 MODIFIED SET

2) 48" x 48" - SGL 1"x14.5' Butyl (2x)

2) Hole - 46

1) Hole - 26
- 0 lb

2866 lb

3609 lb

9184 lb

450 lb

250 lb

0 lb

0 lb

0 lb

Structure Total: 16359 lb

Structure Notes:

1. PER TDOT D-CB-10SB / ASTM C913 SPEC'S.

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

3. CASTING BY ICAST (JBS-3123 MOD SET).

REINFORCING PER ASTM A615 (GRADE 60).

** SEE TDOT STD DRAWING D-CB-10SB **

- TOP SLAB - DBL MAT #5 BARS.

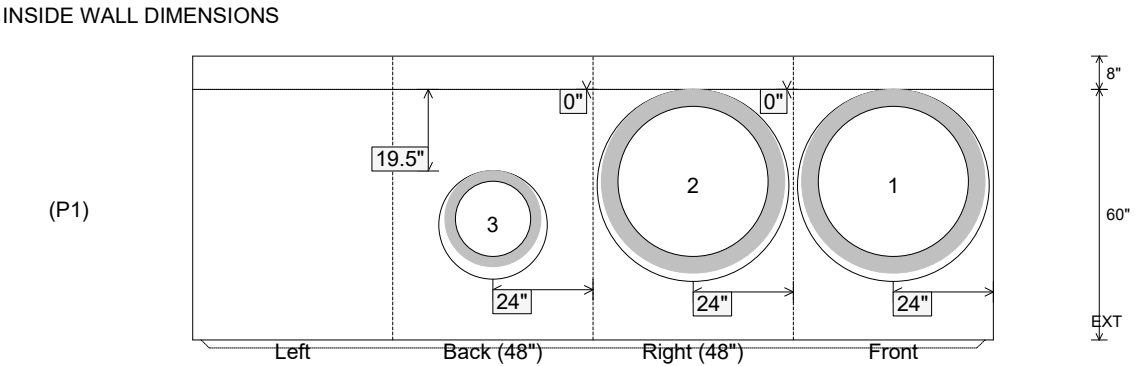
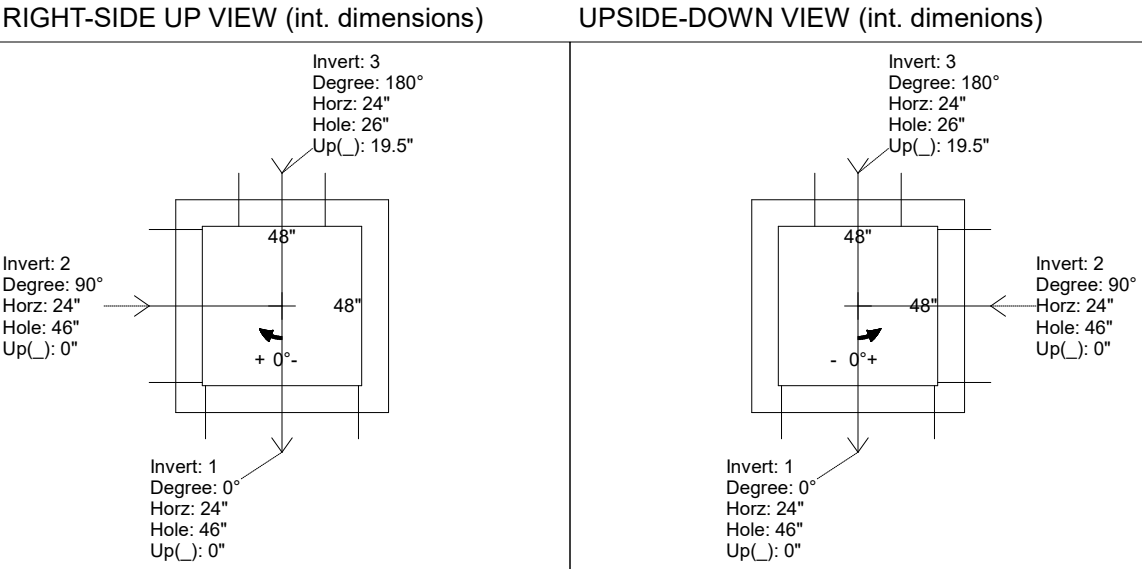
- WALLS (As .47) #5 BARS AT 8" C.C.E.W.

- FLOOR (As .47) #5 BARS AT 8" C.C.E.W.

Invert channel drawing

4" Thick flat storm invert

Rim: 569.45'		Rim to Invert: 8.15'		Slack: 0.8"	Sump: 4"	Step Position:				
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	561.3'	0°	32"	36" RCP B WALL	44"	Hole 46	46"	46"	0"	0"
Invert 2	561.3'	90°	32"	36" RCP B WALL	44"	Hole 46	46"	46"	0"	0"
Invert 3	562.8'	180°	32"	18" RCP B WALL	23"	Hole 26	26"	26"	19.5"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

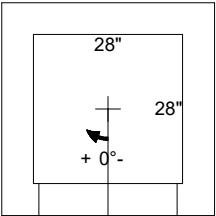
Height (Int): 60"

Height (Ext): 68"

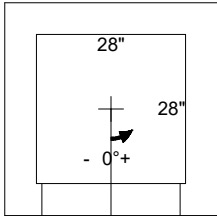
Weight (Net): 9184 lb

Volume (Net): 2.35cu.yd

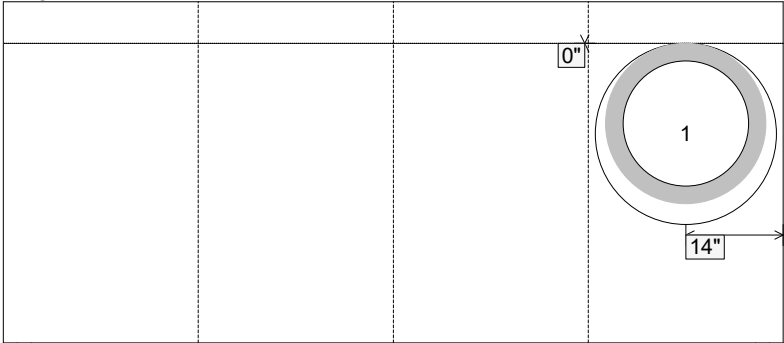
Job Name: 25-1401 Irwin Landing Ph. 1 Job Location: Murfreesboro, TN Contractor: Bear Construction LLC					Plant: Beaver Dam 6/9/2026 10:37:13 AM		Tech: S. Felletter PC: Erica Bradley				
Structure ID: R27											
P1		BX28280606VH		BOX BASE 6inW, 6inF, Variable Ht F/n							
P2) 28" x 28" - CASTING HEIGHT - 5" P1) 28" x 28" - BOX BASE 6inW, 6inF, Variable Ht F/n - 43" 1) 28" x 28" - STORM INVERT CHANNEL (FLAT) - 4" THK 1) CASTING - JBS 3104-V SINGLE SET 1) 28" x 28" - Conseal CS-102 1.00" 1) Hole - 26"					0 lb 3483 lb 450 lb 250 lb 0 lb 0 lb ----- 4183 lb Structure Total:		Structure Notes: 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (JBS-3104 SINGLE SET). REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .31) #5 BARS AT 12" C.C.E.W. - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.				
Rim: 576.81' Rim to Invert: 3.83' Slack: 0.46" Sump: 2.5" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1	572.98'	0°	20"	18" RCP B WALL	23"	Hole 26	26"	26"	0"	0"	
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



Invert: 1
Degree: 0°
Horz: 14"
Hole: 26"
Up(_): 0"

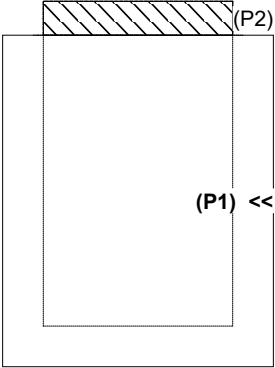


Invert: 1
Degree: 0°
Horz: 14"
Hole: 26"
Up(_): 0"



Left Back (28") Right (28") Front

6"
43"
EXT



(P1) << (P2)

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 6" Floor Height: 6"	Height (Int): 43" Height (Ext): 49"	Weight (Net): 3483 lb Volume (Net): 0.89cu.yd
----------------------------------	-------------------------------	--	--	--

Job Name: 25-1401 Irwin Landing Ph. 1

Job Location: Murfreesboro, TN

Contractor: Bear Construction LLC

Plant: Beaver Dam

6/9/2026 10:37:13 AM

Tech: S. Felletter

PC: Erica Bradley



Structure ID: R27

P1BX28280606VH

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

P2) 28" x 28" - CASTING HEIGHT - 5"

P1) 28" x 28" - BOX BASE 6inW, 6inF, Variable Ht F/n - 43"

1) 28" x 28" - STORM INVERT CHANNEL (FLAT) - 4" THK

1) CASTING - JBS 3104-V SINGLE SET

1) 28" x 28" - Conseal CS-102 1.00"

1) Hole - 26

0 lb

3483 lb

450 lb

250 lb

0 lb

0 lb

Structure Total: 4183 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.

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

3. CASTING BY ICAST (JBS-3104 SINGLE SET).

REINFORCING PER ASTM A615 (GRADE 60).

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

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

Invert channel drawing

4" Thick flat storm invert

Rim: 576.81'

Rim to Invert: 3.83'

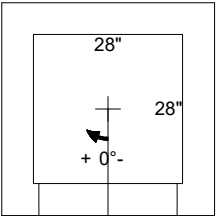
Slack: 0.46"

Sump: 2.5"

Step Position:

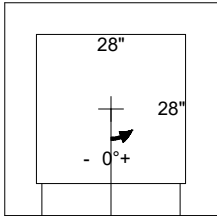
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	572.98'	0°	20"	18" RCP B WALL	23"	Hole 26	26"	26"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 1
Degree: 0°
Horz: 14"
Hole: 26"
Up(): 0"

UPSIDE-DOWN VIEW (int. dimensions)



Invert: 1
Degree: 0°
Horz: 14"
Hole: 26"
Up(): 0"

INSIDE WALL DIMENSIONS

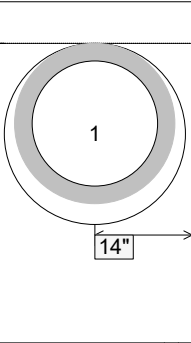
(P1)

Left

Back (28")

Right (28")

Front



6"
43"
EXT
14"

Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 6"

Floor Height: 6"

Height (Int): 43"

Height (Ext): 49"

Weight (Net): 3483 lb

Volume (Net): 0.89cu.yd

Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315)

Job Location: Indiana, KY

Contractor: Louisville Paving and Construction

Plant: 100

6/12/2026 3:10:11 PM

Tech: J. Horsley - A

PC: J. Jarvis



Structure ID: 148

P1 BX2424-08BAVF

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

P2) 24" x 24" - CASTING HEIGHT - 5"

P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 28"

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

1) Hole - 20

0 lb

3256 lb

0 lb

0 lb

0 lb

Structure Total: 3256 lb

Structure Notes:

** KYTC STATE PROJECT **

1. PER KYTC CBI TYPE F / ASTM C-913 SPECS

2. CONCRETE: 4,000 PSI AT 28 DAYS

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

4. HOE KY-465 FRAME, GRATE, & CURB HOOD SUPPLIED BY OTHERS

Rim: 552.51'

Rim to Invert: 2.75'

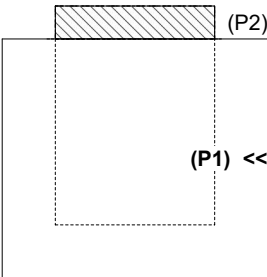
Slack: 0"

Sump: 0"

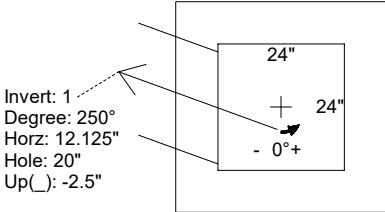
Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	549.76'	250°	17.25"	15" HDPE	17.6"	Hole 20	20"	21.284"	-2.5"	4.25"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

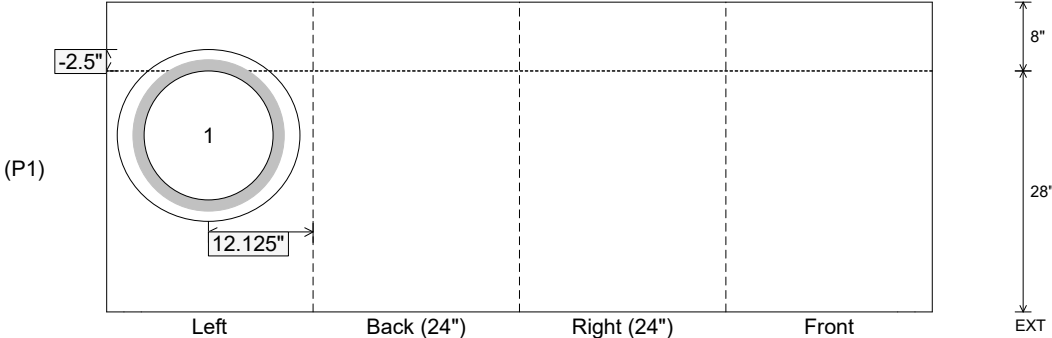
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

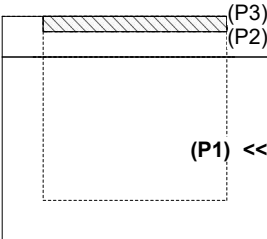
Height (Int): 28"

Height (Ext): 36"

Weight (Net): 3256 lb

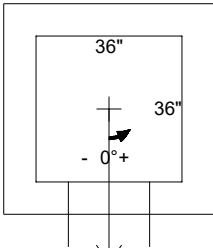
Volume (Net): 0.83cu.yd

Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315) Job Location: Indiana, KY Contractor: Louisville Paving and Construction				Plant: 100 6/12/2026 3:09:35 PM		Tech: J. Horsley - A PC: J. Jarvis				
Structure ID: 14A										
P1 BX3636-08BAVF				BOX BASE 8inW, 8inF, Variable Ht F/n						
P3) 36" x 36" - CASTING (cast in) - 3" P2) 36" x 36" - CB FLAT TOP 8"W SPEC. (KY-328 CAST IN) F/F - 8" P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 28" 1) This Structure Includes a Cast-in Item - HOE KY-328 Frame (Supplied by Others) 2) 36" x 36" - Conseal CS-102 1.00" 1) Hole - 20						0 lb 996 lb 4912 lb 0 lb 0 lb 0 lb Structure Total: 5908 lb		Structure Notes: ** KYTC STATE PROJECT ** 1. PER KYTC DBI TYPE 3 / ASTM C-913 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. HOE KY-328 FRAME & GRATES SUPPLIED BY OTHERS - FRAME TO BE CAST INTO FLAT LID		
Rim: 560.85' 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	557.85'	0°	26"	15" HDPE	17.6"	Hole 20	20"	20"	-2.5"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



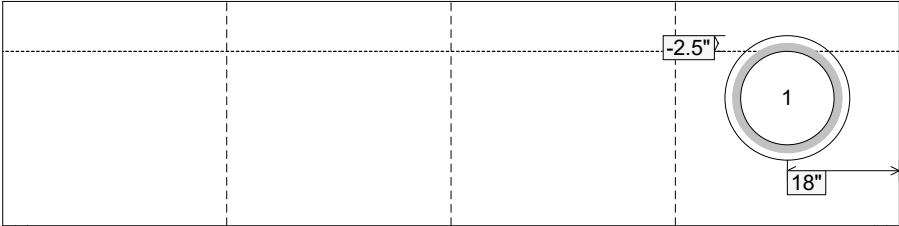
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



Invert: 1
Degree: 0°
Horz: 18"
Hole: 20"
Up(): -2.5"

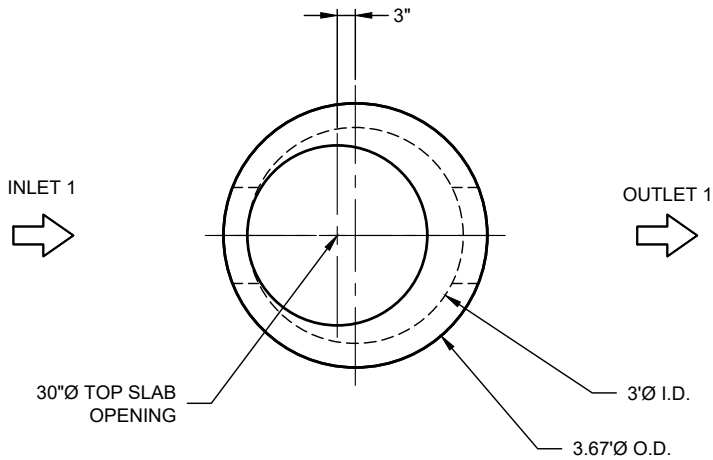
INSIDE WALL DIMENSIONS



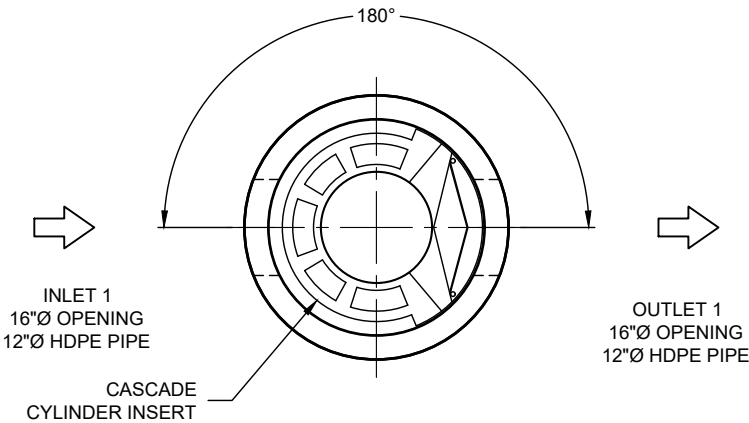
18" 28" 2.5" 36"

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 28" Height (Ext): 36"	Weight (Net): 4912 lb Volume (Net): 1.25cu.yd
----------------------------------	-------------------------------	--	--	--

26-3091 907597 Ives Field Rec Enhance

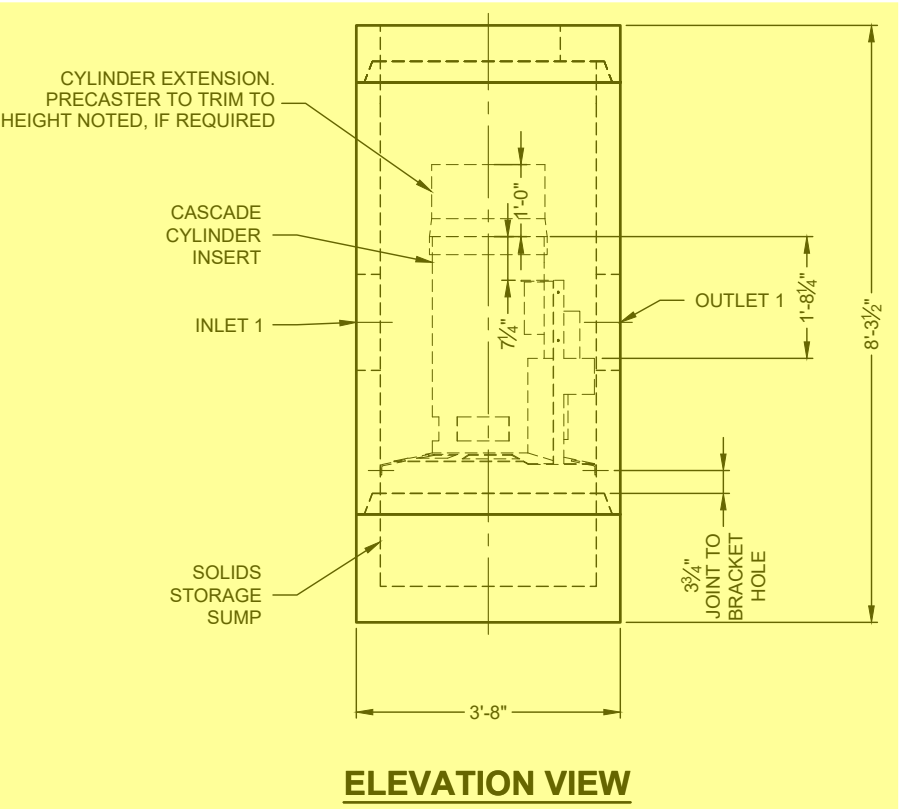


PLAN VIEW
INTERNALS NOT SHOWN

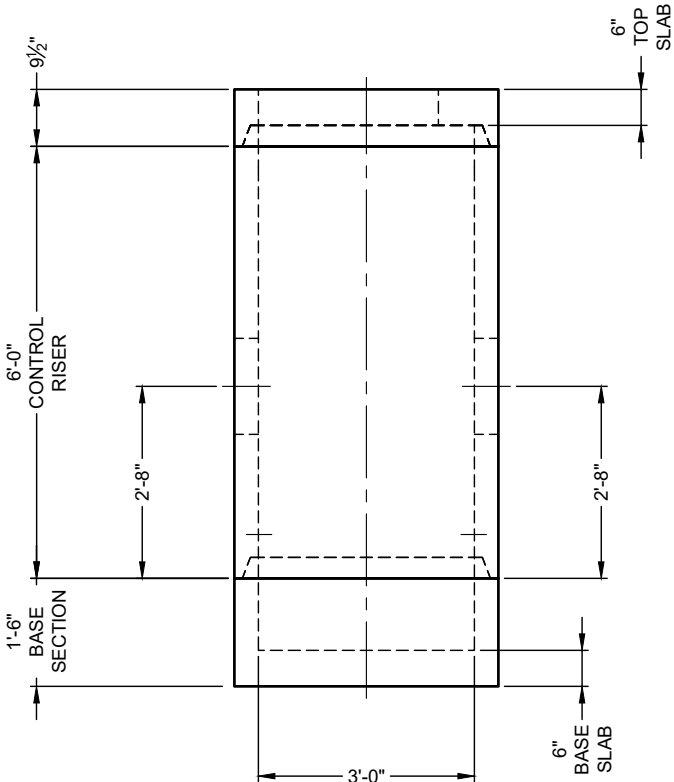


PLAN VIEW FOR PIPE ORIENTATION
TOP SLAB NOT SHOWN

SEE INSTALLATION NOTE A



ELEVATION VIEW



PRECAST COMPONENTS
INTERNALS NOT SHOWN

ICAST
5888 / 757440
LAYOUT 1A
2.45TS

CONTECH
FABRICATION
DRAWING

MATERIAL LIST

COUNT	DESCRIPTION	PART NUMBER	PROVIDED BY	INSTALLED BY
1	CS-3 CYLINDER INSERT, STD.	325-004190	CONTECH	PRECASTER
3	CS-3 ALUMINUM INSTALLATION BRACKETS	325-003956	CONTECH	PRECASTER
1	CS-3 HARDWARE KIT	325-003955	CONTECH	PRECASTER
1	CS-3 FIBERGLASS CYLINDER EXTENSION, 1 FT.	325-004134	CONTECH	CONTRACTOR
1	SEALANT FOR JOINTS		PRECASTER	CONTRACTOR
1	30"Ø X 4" FRAME AND COVER, EJ #41600483, OR EQUIV.	325-000332	CONTECH	CONTRACTOR

GENERAL NOTES

- DESIGN LOADING - AASHTO HS-20
- ALL PRECAST CONCRETE MANUFACTURED PARTS SHALL CONFORM TO ASTM C-478, WITH MINIMUM CONCRETE STRENGTH OF 4000 PSI AT 28 DAYS
- JOINT SEALANT SHALL CONFORM TO ASTM C-990 OR ASTM C-443
- GROUND WATER ELEVATION ASSUMED AT OUTLET INVERT
- MANUFACTURING TOLERANCE = +/- 1/2-INCH
- SOME HIDDEN LINES MAY BE OMITTED FOR CLARITY

INSTALLATION NOTES

- PRECASTER TO SHIP ACCESS CASTINGS WITH STRUCTURE
- REFER TO CONTECH ASSEMBLY INSTRUCTIONS FOR ADDITIONAL INFORMATION.
- PRECASTER TO INSTALL INTERNAL COMPONENTS PRIOR TO SHIPPING UNLESS INSTRUCTED OTHERWISE BY CONTECH
- PIPE OPENINGS SHALL BE STENCILED "INLET" OR "OUTLET" AS APPROPRIATE
- APPLYING ALIGNMENT MARKS ON ALL PIECES OF MULTIPLE PIECE ASSEMBLIES IS ENCOURAGED
- IF STRUCTURE IS DELIVERED IN MULTIPLE SECTIONS, EACH PIECE SHALL BE LABELED WITH THE CONTECH PROJECT NUMBER, SEQUENCE NUMBER AND SITE DESIGNATION

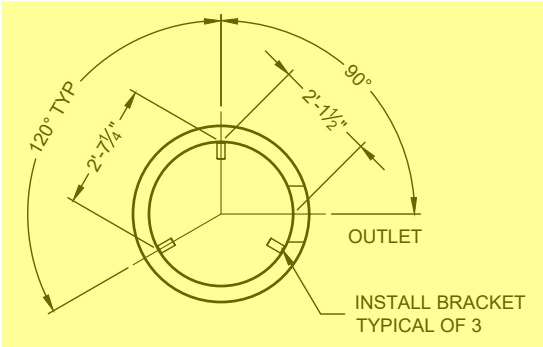
SITE INFORMATION

RIM ELEV. = 639.8+/-
TOP OF STRUCTURE = 638.45
INLET PIPE 1 INVERT ELEV. = 633.82
INLET PIPE 1 DIAMETER AND MATERIAL = 12"Ø HDPE
OUTLET PIPE INVERT ELEV. = 633.82
OUTLET PIPE DIAMETER AND MATERIAL = 12"Ø HDPE
OUTSIDE BOTTOM OF STRUCTURE ELEV. = 630.15

STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 3500 LBS.
STRUCTURE IS DELIVERED IN 3 PIECES

TOP SLAB = 1000 LBS.
CONTROL RISER = 3500 LBS.
BASE SECTION = 1500 LBS.



SUPPORT BRACKET LAYOUT PLAN VIEW

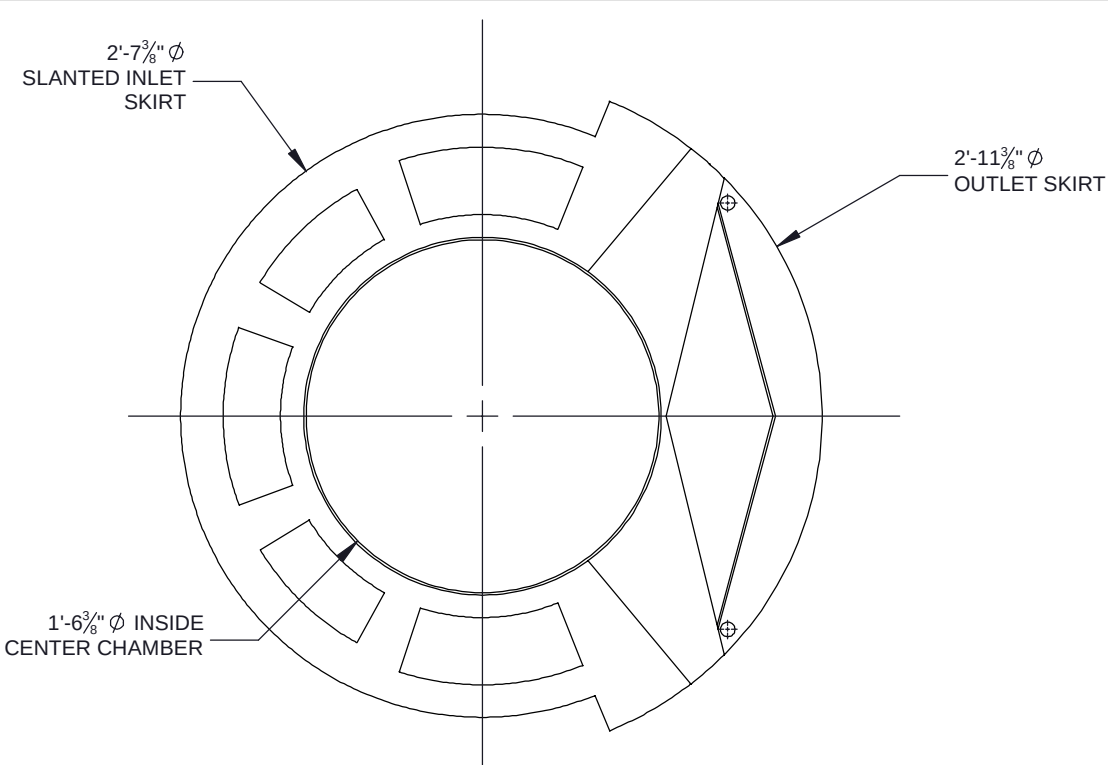
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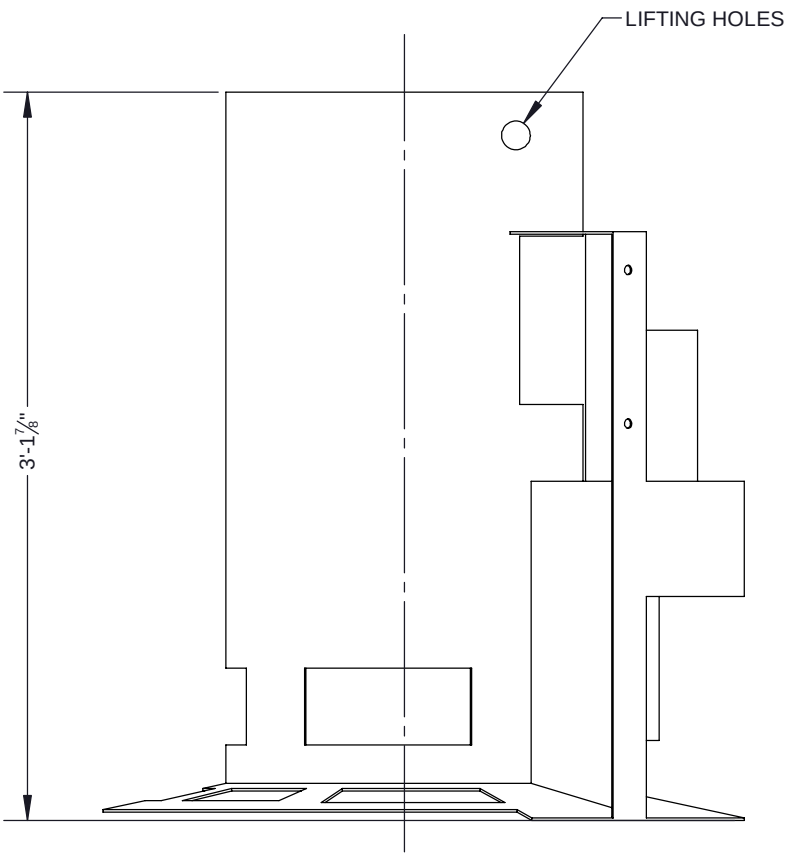
CONTECH
ENGINEERED SOLUTIONS LLC
A CONTECH COMPANY
910 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-445-7000 513-945-7893 FAX
FOR PATENT INFORMATION, GO TO www.conteches.com/FP

CASCADE
separator®

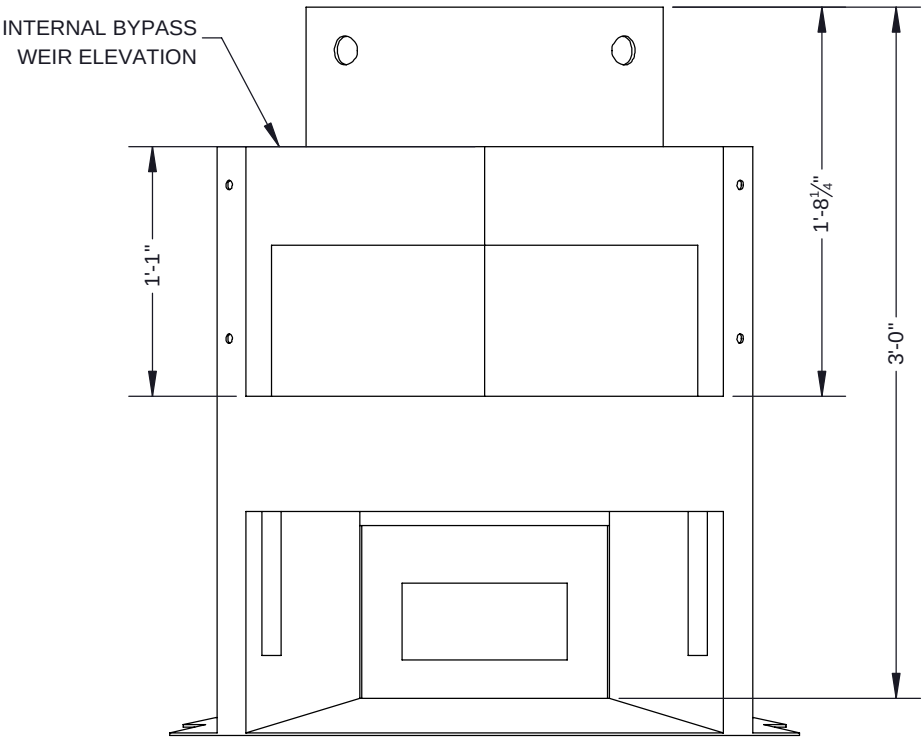
DATE:	6/25/26
DESIGNED:	MSB
DRAWN:	MSB
CHECKED:	LJK
APPROVED:	MSB
PROJECT No.:	907597
SEQUENCE No.:	10
SHEET:	1 OF 1



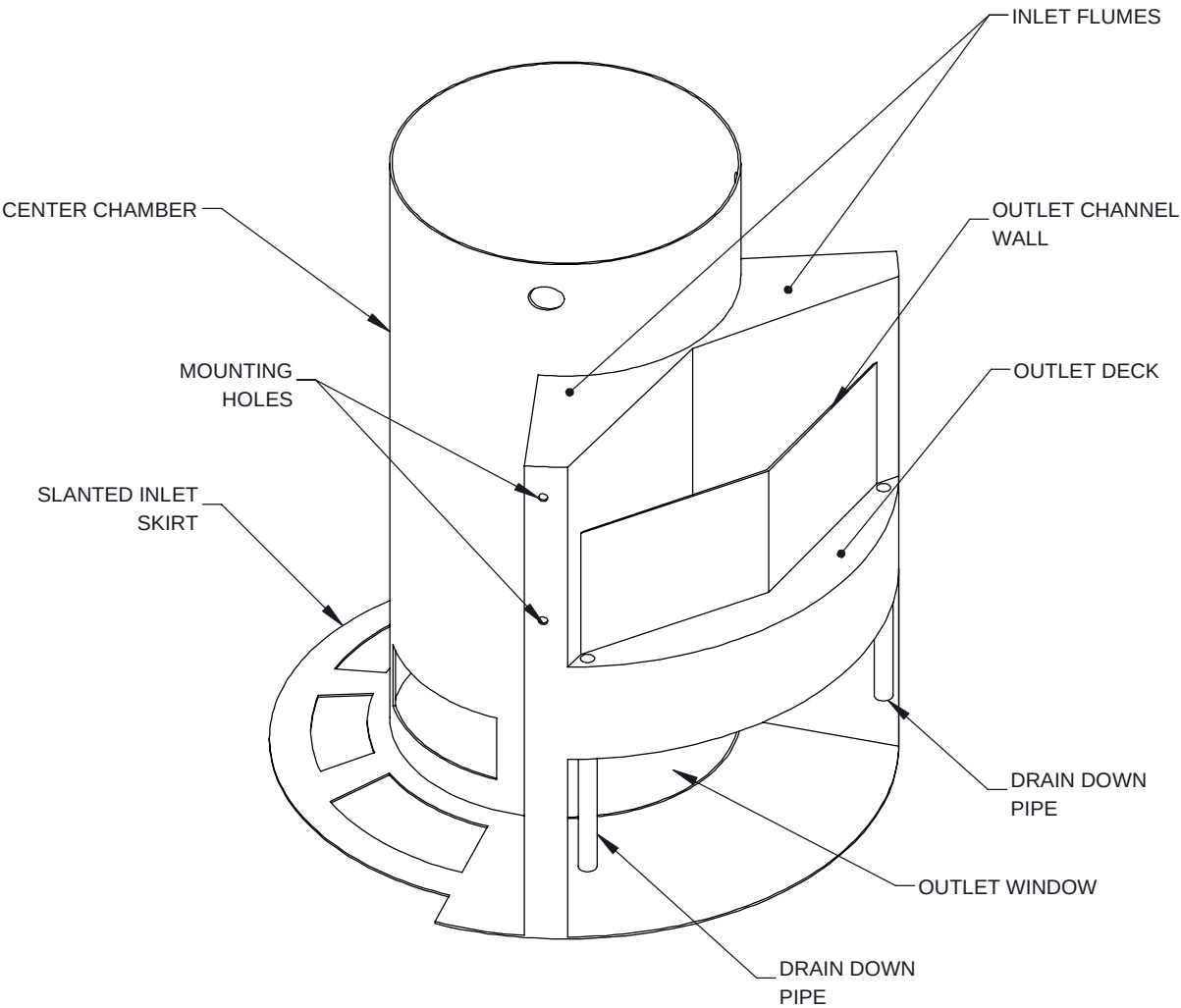
PLAN VIEW



ELEVATION VIEW



ELEVATION VIEW: OUTLET SIDE



ISOMETRIC VIEW

NOTES:
1. SEE CASCADE SEPARATOR INSTALLATION GUIDE FOR ADDITIONAL INFORMATION

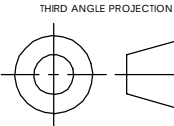
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800-338-1122 513-645-7000 513-645-7993 FAX

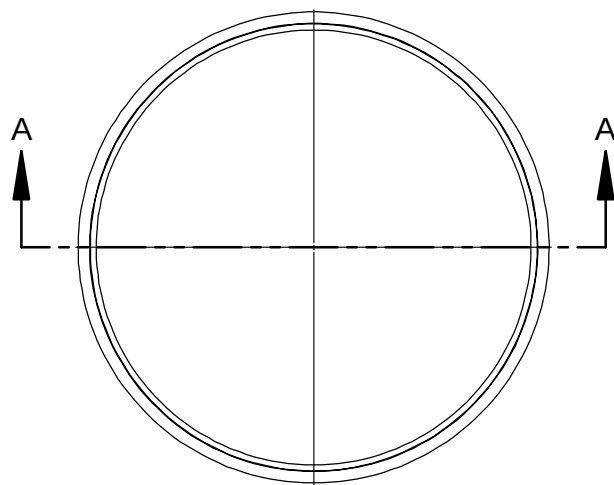
REFERENCE DETAIL
INTERNALS ALUMINUM CS-3
CASCADE SEPARATOR



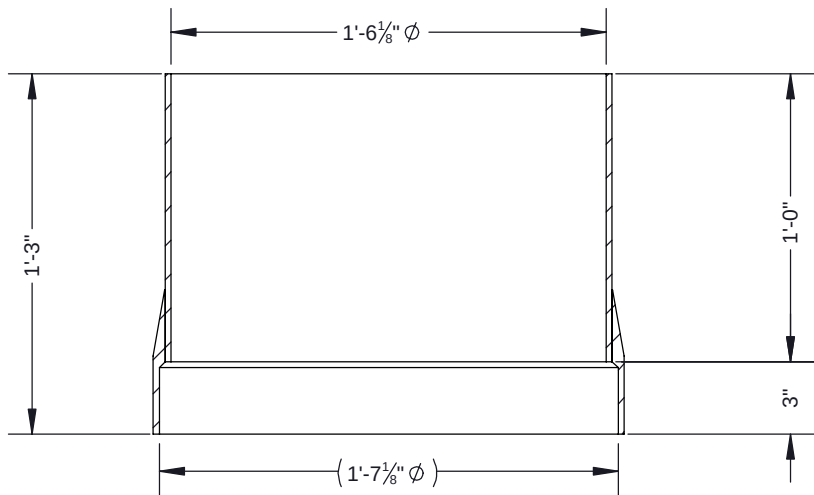
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES:
FRACTIONAL $\pm 1/16$
ANGLES ± 1 DEGREE
TWO PLACE DECIMAL ± 0.06
THREE PLACE DECIMAL ± 0.030

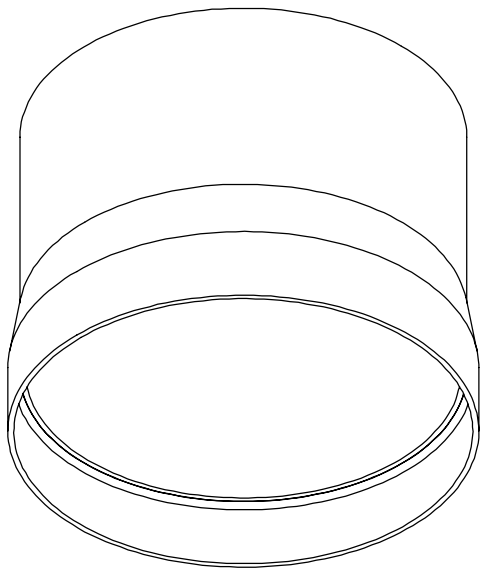
PART NUMBER: 325-004190		
APPROVED BY: M. BROOKS	DRAWN BY: J. BELL	
APPROVED BY DATE: 2021.10.21	DRAWN BY DATE: 2021.09.16	REV: A
SCALE: N/A	SHEET 1 OF 1	



PLAN VIEW



SECTION A-A



ISOMETRIC VIEW

- NOTES:
- 1. SEE SITE SPECIFIC DRAWINGS FOR REQUIRED CYLINDER EXTENSION HEIGHT
 - 2. SEE CYLINDER EXTENSION INSTALLATION GUIDE FOR ADDITIONAL INFORMATION

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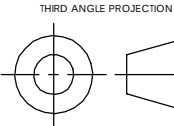
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REFERENCE DETAIL
1 FT CYLINDER EXTENSION CS-3
CASCADE SEPARATOR



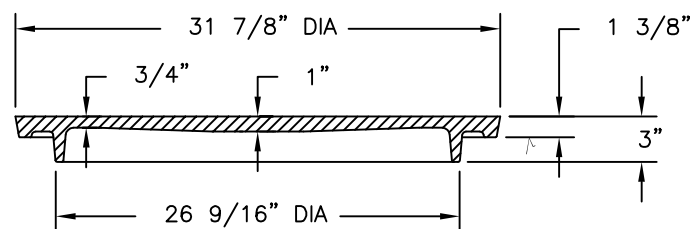
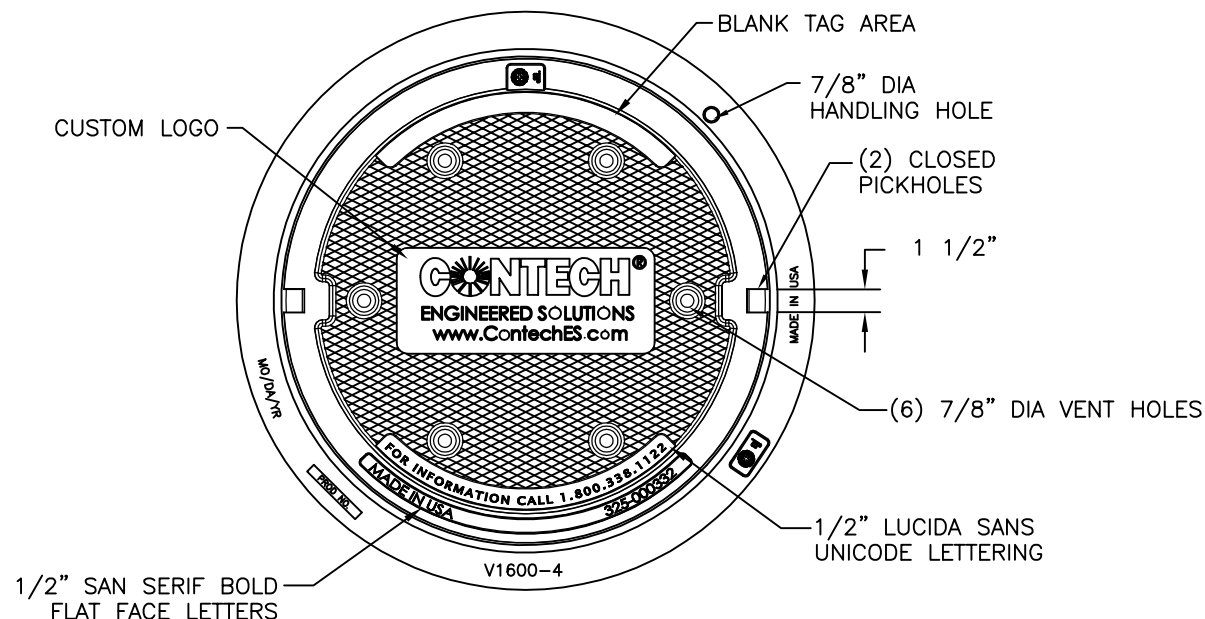
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

TOLERANCES:
FRACTIONAL ± 1/16
ANGLES ± 1 DEGREE
TWO PLACE DECIMAL ± 0.06
THREE PLACE DECIMAL ± 0.030

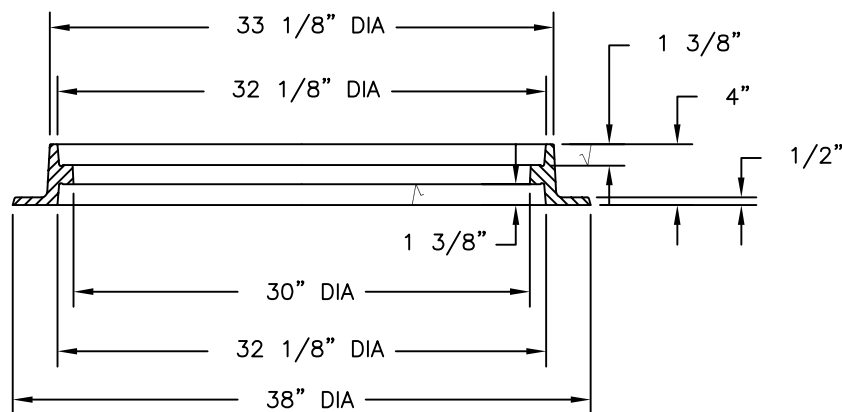
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APPROVED BY: M. BROOKS	DRAWN BY: J. BELL	
APPROVED BY DATE: 2022.02.14	DRAWN BY DATE: 2022.02.10	REV: A
SCALE: N/A	SHEET 1 OF 1	

26-3091 907597 Ives Field Rec Enhance

1810B4 V1600-4 Assembly



COVER SECTION



FRAME SECTION

Product Number

41600483

Design Features

-Materials

Cover

Gray Iron (CL35B)

Frame

Gray Iron (CL35B)

-Design Load

Heavy Duty

-Open Area

n/a

-Coating

Undipped

-✓ Designates Machined Surface

Certification

- ASTM A48

-Country of Origin: USA

Major Components

00180783

41600410

Drawing Revision

05/09/2007 Designer: SMH

6/26/2017 Revised By: DAE

Disclaimer

Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

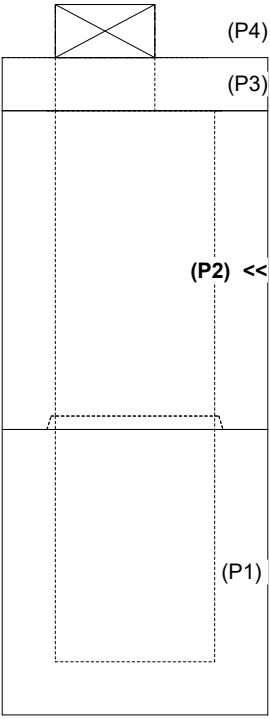
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Contact

800 626 4653

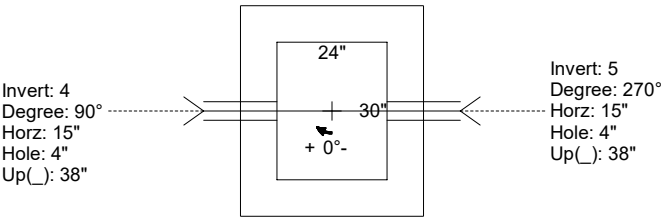
ejco.com

Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315) Job Location: Indiana, KY Contractor: Louisville Paving and Construction					Plant: 100 6/12/2026 3:11:14 PM		Tech: J. Horsley - A PC: J. Jarvis				
Structure ID: 66											
P2 BX2430-08R48			BOX RISER 8inW F/G								
P4) 15" x 27" - P.I.P. - BY OTHERS - 8" P3) 24" x 30" - CB FLAT TOP 8"W w/15"x27" HOLE F/F - 8" P2) 24" x 30" - BOX RISER 8inW F/G - 48" P1) 24" x 30" - BOX BASE 8inW, 8inF, Variable Ht T/n - 35" 2) 24" x 30" - Conseal CS-102 1.00" 1) 15" x 27" - Conseal CS-102 1.00" 2) Hole - 24 1) Hole - 18 2) Hole - 4						0 lb 963 lb 4494 lb 3887 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 9345 lb		Structure Notes: ** KYTC STATE PROJECT ** 1. PER KYTC DBI TYPE 13G / ASTM C-913 SPECS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. HOE KY-230G FRAME & GRATE SUPPLIED BY OTHERS - POURED IN PLACE BY OTHERS			
Rim: 552.49' Rim to Invert: 8.25' Slack: 0" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4	550.49'	90°	23"	4" WEEP HOLE	4"	Hole 4	4"	4"	38"	0"	
Invert 5	550.49'	270°	23"	4" WEEP HOLE	4"	Hole 4	4"	4"	38"	0"	
Invert 6											
Invert 7											
Invert 8											



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

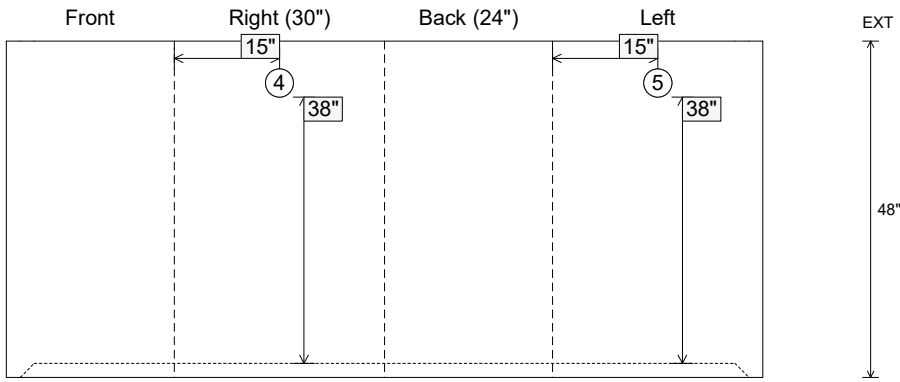
RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 4
Degree: 90°
Horz: 15"
Hole: 4"
Up(): 38"

Invert: 5
Degree: 270°
Horz: 15"
Hole: 4"
Up(): 38"

INSIDE WALL DIMENSIONS



Front Right (30") Back (24") Left EXT

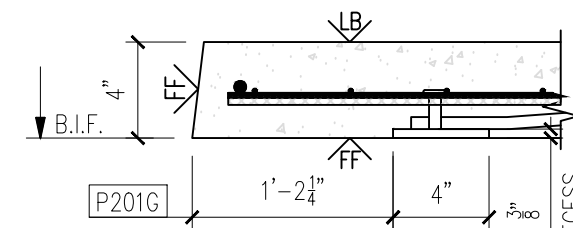
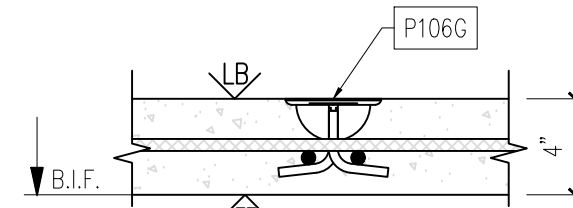
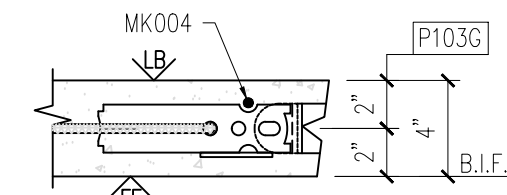
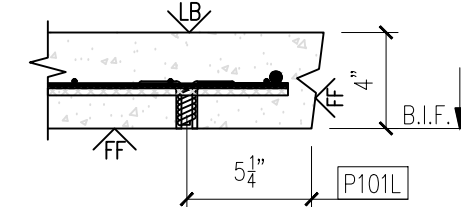
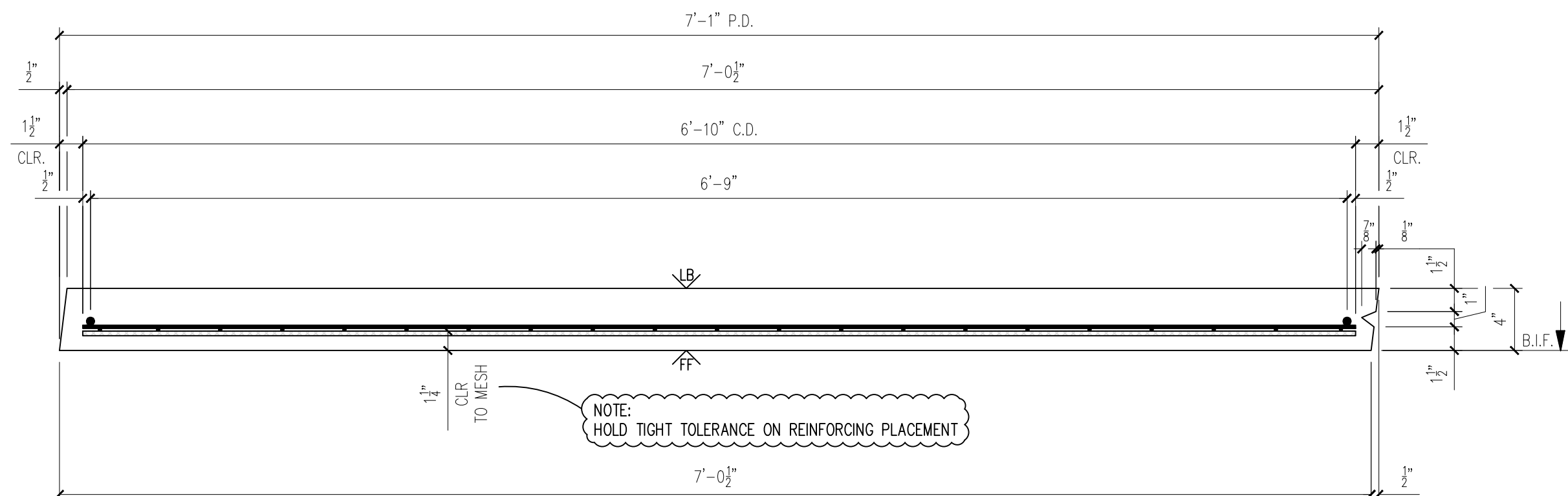
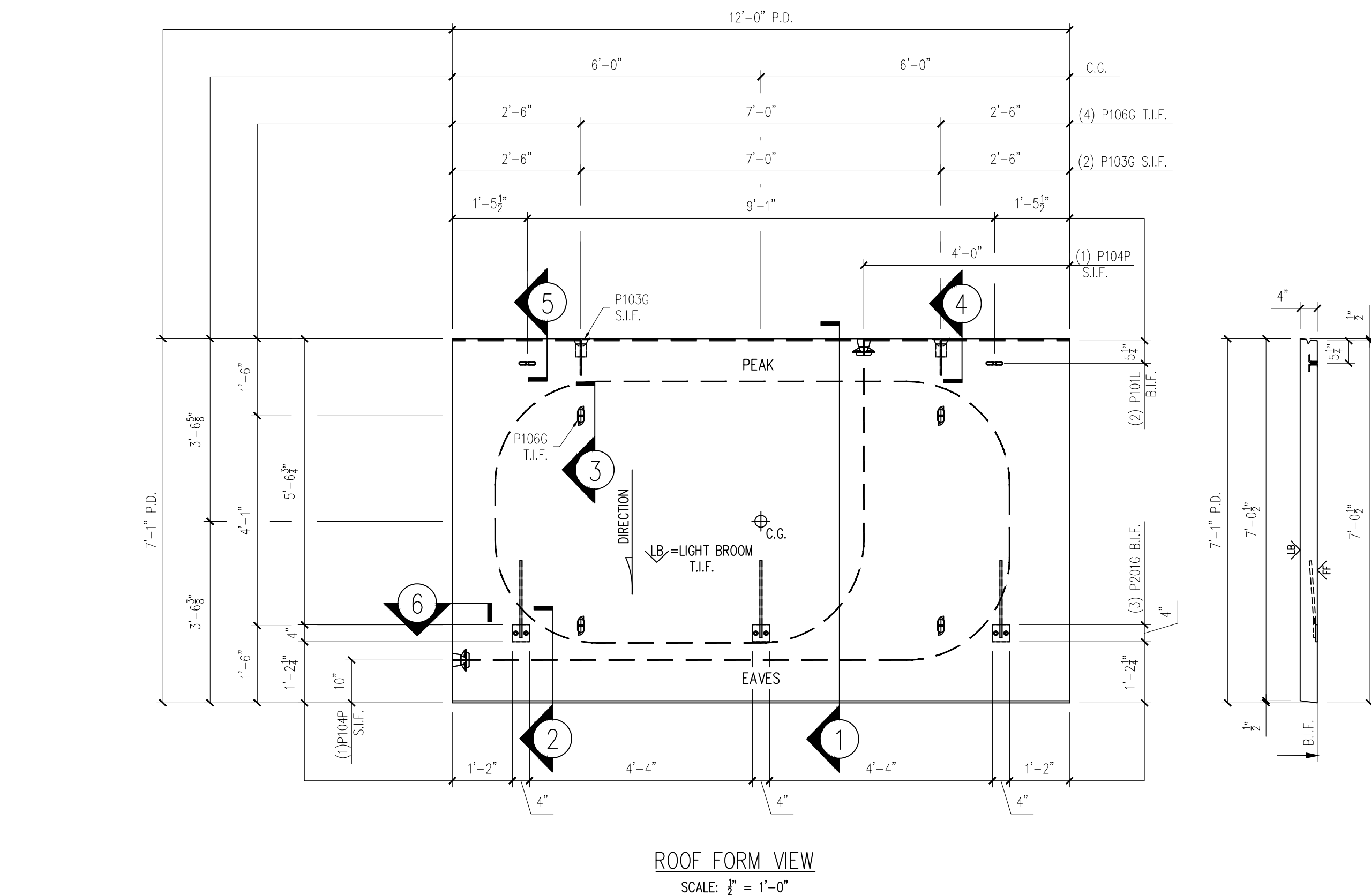
15" 15" 48"

38" 38"

(P2)

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 8" Floor Height: 0"	Height (Int): 48" Height (Ext): 48"	Weight (Net): 4494 lb Volume (Net): 1.15cu.yd
----------------------------------	----------------------------------	--	--	--

25-3470
CCHS Precast Buildings
ID - CTS
Roof - RP-01A
Weight - 4,220
1 Required



MESSAGE CENTER

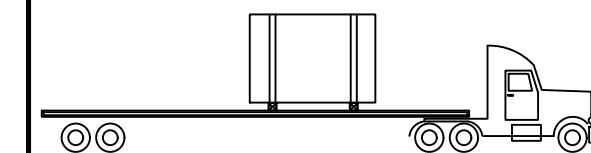
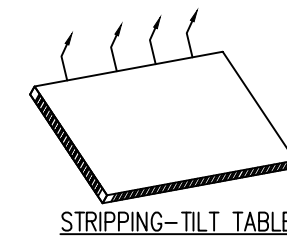
1. REFER TO DETAILS FOR
REINFORCEMENT/CABLE PLACEMENT

2. SHOP TICKET SHOWS EXTERIOR
FINISH CAST FACE UP

CHECKED BY: _____ DATE: _____
APPROVED BY: _____ DATE: _____

BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY
P201G	℞ 4"X4"X8"W/(2) 8"Ø X 1 1/2" H.A.S. W/ 1'-4" BENT REBAR (GALV.)	3
P103G	2 TON TECH ERECTION ANCHOR (GALV.)	2
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	2
P106G	2 TON PLATE ANCHOR (GALV.)	4
P101L	1 1/2" Ø X 1 1/2" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	2

HANDLING INSTRUCTIONS



CONCRETE INSTRUCTIONS

CONCRETE RELEASE @ 2,500 P.S.I.	
CONCRETE @ 28 DAYS: 5,000 P.S.I.	
POST-TENSION @ 3,500 P.S.I.	
CONCRETE MIXES	
CONCRETE - GRAY	VOLUME = 1.04 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 1.04 C.Y.

FINISHING INSTRUCTIONS

LB = LIGHT BROOM FINISH
FF = FORM FINISH

L = 12'-0"	SQ.FT.(T.I.F.) = 84.37
W = 7'-1"	SQ.FT.(T.I.F.) = -
D = 4"	SQ.FT.(T.I.F.) = -

CONTROL NUMBERS:

<u>PRODUCT</u>	<u>SALES ORDER NUMBER</u>
BUILDING	101208C
<u>SHEET NUMBER</u>	<u>NUMBER REQUIRED</u>
1 OF 2	2

DATE	DESCRIPTION	INI.	REV
-		-	Δ_1
-		-	Δ_2
-		-	Δ_3
-		-	Δ_4
-		-	Δ_5

PROJECT: 10'X12'X8' GATE HOUSE BUILDING
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE
NTS

DRAWN BY
FTI

CHECK BY
WCR

ISSUE DATE
07.01.26

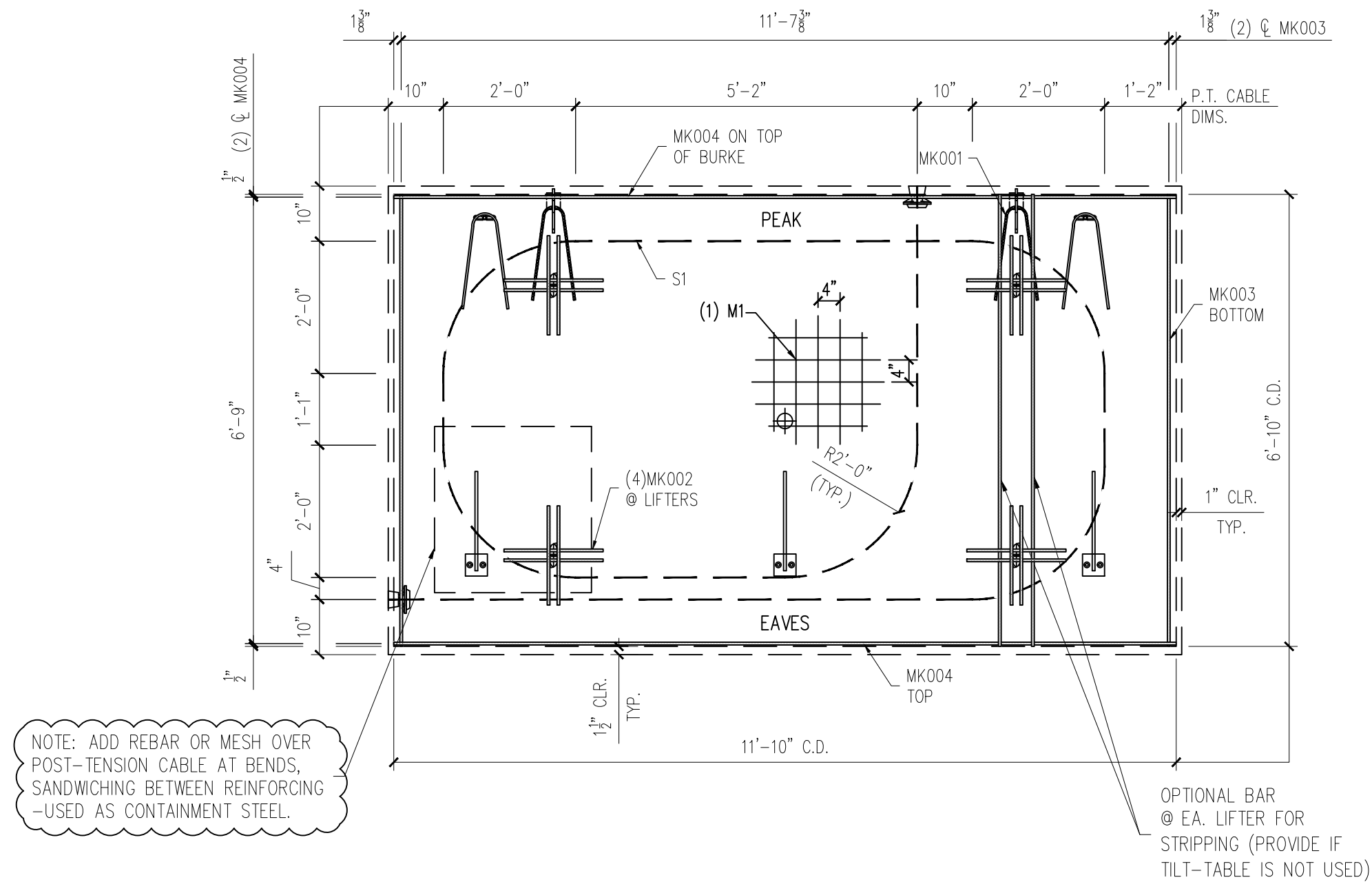
PIECE MAR
RP-01

EASI	EASI-SET®	WORLDWIDE	2	2	3
------	-----------	-----------	---	---	---

5119 Catlett Rd. • Midland, VA 22728 • info@EasiSet.com
www.EasiSet.com • 800-547-4045 • Fax 540-439-2541

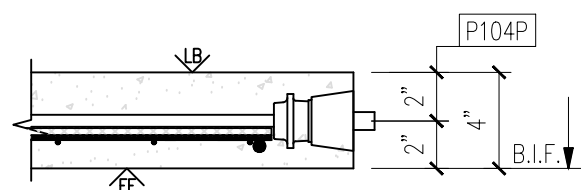
25-3470
CCHS Precast Buildings
ID - CTS
Roof - RP-01A
Weight - 4,220
1 Required

NOTE:
DIMENSIONS PROVIDED ARE PULLED FROM EDGE OF
CAGE TO CENTERLINE OF REBAR AND TO CENTER
OF REBAR TO CENTER OF REBAR



ROOF REINFORCING VIEW

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



6

MESSAGE CENTER

1. REFER TO DETAILS FOR
REINFORCEMENT/CABLE PLACEMENT

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

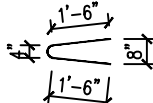
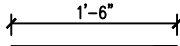
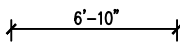
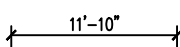
CHECKED BY: _____ DATE: _____

APPROVED BY: _____ DATE: _____

NOTES:

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

<u>PRODUCT</u>	<u>SALES ORDER NUMBER</u>
BUILDING	101208C
<u>SHEET NUMBER</u>	<u>NUMBER REQUIRED</u>
2 OF 2	2

REINFORCING SCHEDULE		
MARK #	DESCRIPTION	QTY.
MK001	#3 X 3'-0" 	4
MK002	#4 X 1'-6" 	16
MK003	#3 X 6'-10" 	2
MK004	#3 X 11'-10" 	2
S1	1/2" Ø X 43'-2" LONG P.T. CABLE	1
MESH SCHEDULE		
MARK #	DESCRIPTION	QTY.
M1	W4XW4 4"x4" WWF 11'-10" X 6'-10"	1

DATE	DESCRIPTION	INIT.	REV.
—	—	△	△
—	—	—	△
—	—	—	△
—	—	—	△
—	—	—	△
—	—	—	△

PROJECT: 10'X12'X8' GATE HOUSE BUILDING
5185 FORT CAMPBELL BOULEVARD
HOPKINSVILLE, KY 42240
CONTRACTOR: CHRISTIAN COUNTY SCHOOLS

SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 07.01.26
PIECE MARK RP-01

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

PT Check for Gate House Roof RP-01 (PCI MNL - 1)

Material Data

(7) Wire lo-lax Strand - ASTM A416

Φ_{ps} 0.500 in,

A_s 0.153 in²

E_s 28500000 psi

f_{pu} 270 ksi

Strand Length **480 in**

Assume (Info supplied by strand manufacturer)

k = 0.0007 Wobble Friction Coeff.

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

Strand is to be stressed 70% of ultimate

= 28917 lbs

Adjustments to tensioning

1) Dead end anchor wedge seating loss

~ Expected to be 1/8 in

2) Live end anchor wedge seating loss

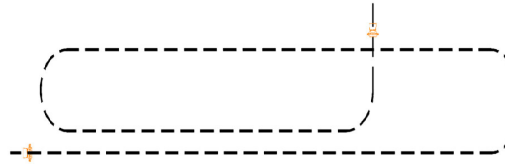
~ Expected to be 1/8 in, recommend over pull 1/8"

3) Elastic Shortening

Neglect for this pnl

4) Friction Loss

Additional force to overcome frictional forces between strand and sheathing



Cable Configuration

25-3470

CCHS Precast Buildings

ID - CTS

Roof - RP-01A

Weight - 4,220

1 Required

Tensioning Computations

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

= 2.85 in

Adjustments

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

Add 1/8 in

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

1/8 in

Force adjustment $t = \frac{1136 \text{ lbs}}{1136 \text{ lbs}} \alpha = \text{curvature} = \pi(2.5) = 7.85 \text{ radians}$

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

= 0.657

Avg. strand force = 0.828 17.17% Loss

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

Friction loss at mid-point of tendon

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

= 0.810

Avg. strand force over

half of tendon = 0.905 9.48% Loss

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

Elong. Adjustment = 0.271 in

Force Adjustment = 2743 lbs

Total Force Required = 32795 lbs **OK**

Elongation Summary:

Gross Theoretical Elongation			
Basic Elongation		2.85 in	
Dead End Seating Loss		0.125 in	
Live End Seating Loss		0.125 in	
Friction Losses		0.271 in	
Total Elongation		3.37 in	
Rounded		3 6/16 in	
Tolerance limits	-7.0%	3.14 in	3 2/16 in
	+7.0%	3.61 in	3 10/16 in



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

Weight (Net): 963 lb
Volume (Net): 0.25cu.yd

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

Plant: 100

6/16/2026 8:42:10 AM

Tech: J. Horsley - A

PC: J. Jarvis



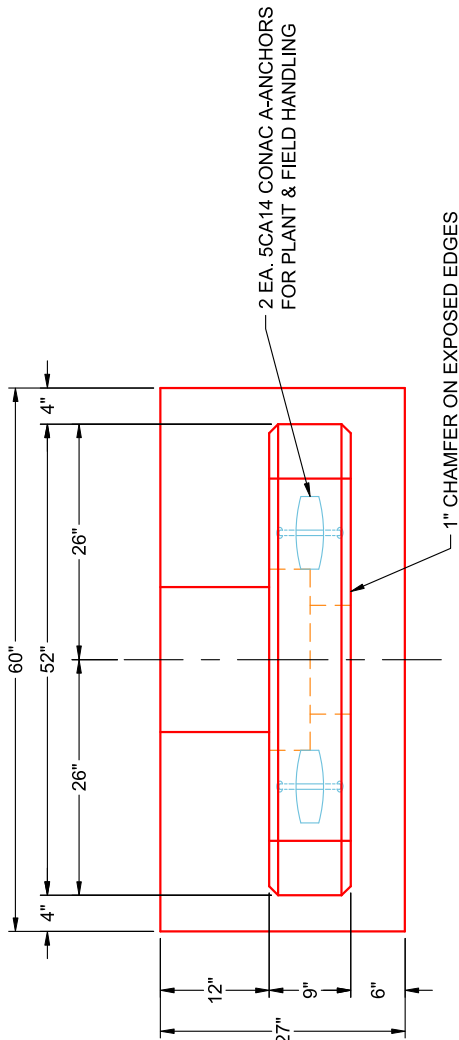
Structure ID: HW

P1 HWMSD12

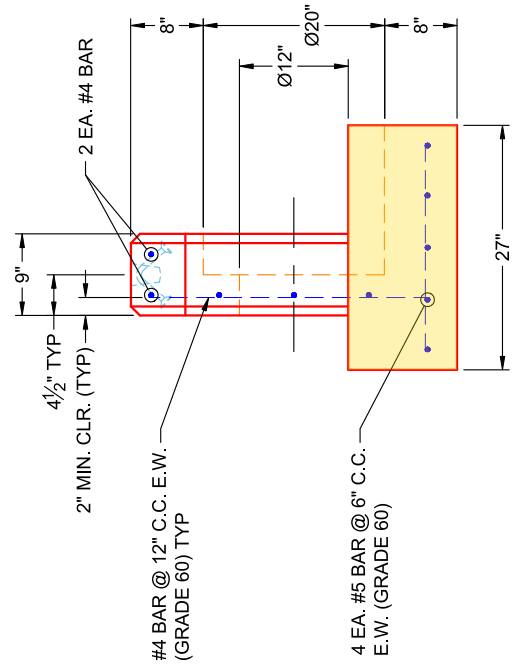
12" - STANDARD HEADWALL MSD F/F

GENERAL NOTES:

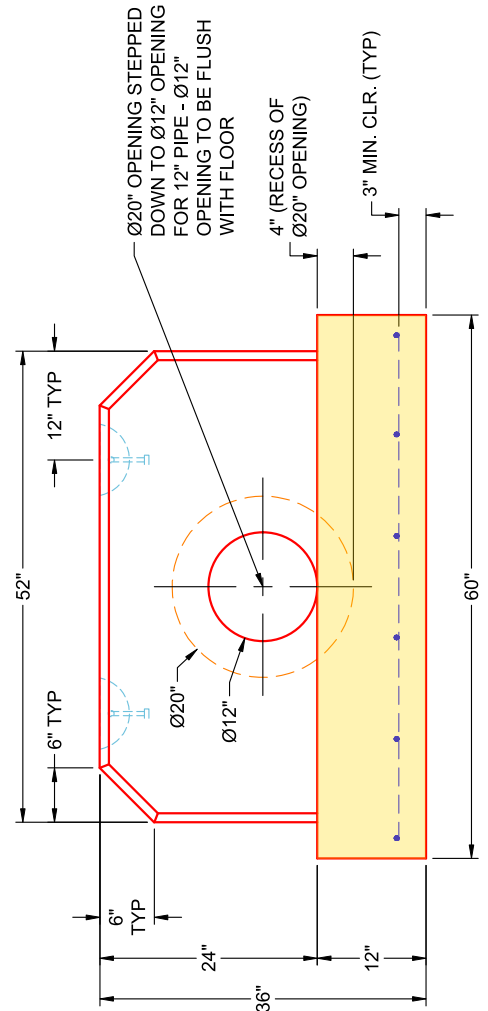
1. CONCRETE: 4,500 PSI AT 28 DAYS
2. REINFORCEMENT: #4 BAR & #5 BAR AS SHOWN (GRADE 60) - MIN. 2" REBAR CLEARANCE (TYP)
3. THIS DRAWING TO BE USED IN CONJUNCTION WITH MSD STANDARD DRAWING DH-01-01
4. REINFORCING BARS TO BE TACK WELDED OR TIED
5. 1" CHAMFER ON ALL EXPOSED EDGES
6. TOTAL WEIGHT: 2,340 LBS
- FIRST POUR: 1,570 LBS
- SECOND POUR: 770 LBS



PLAN VIEW
(RIGHT SIDE UP)



SIDE VIEW
(RIGHT SIDE UP)



FRONT VIEW
(RIGHT SIDE UP)

Job Name: 25-2952 - KYTC Jefferson Co Call 106 (251315)
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6/16/2026 8:42:10 AM

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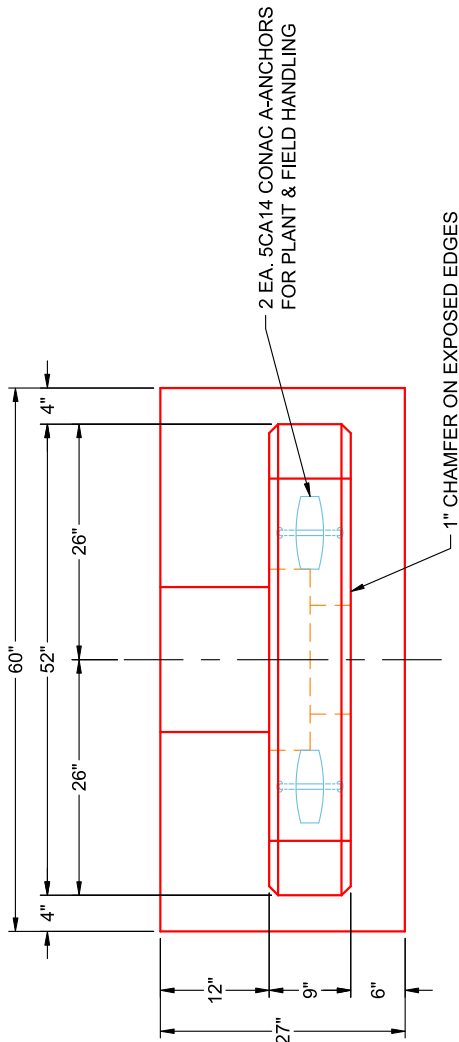
Structure ID: HW

P1 HWMSD12

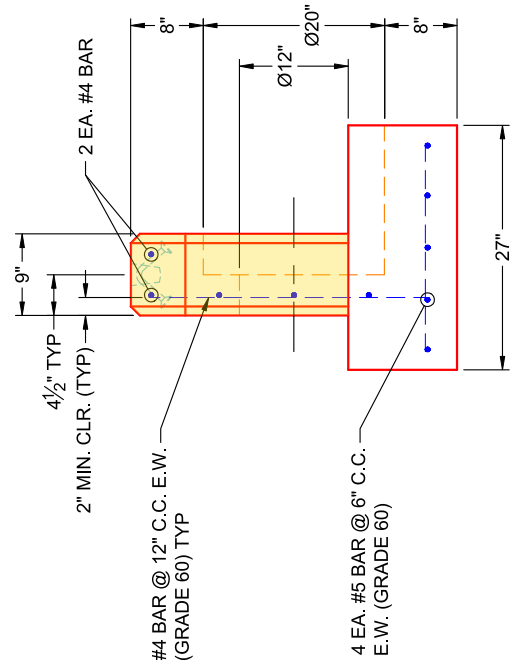
12" - STANDARD HEADWALL MSD F/F

GENERAL NOTES:

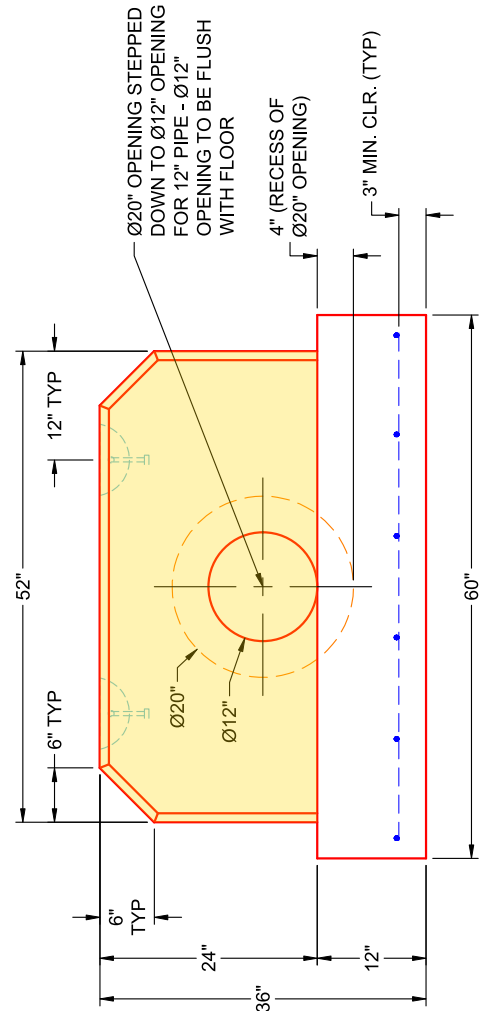
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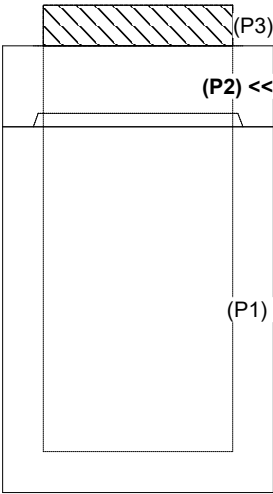
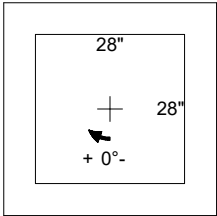
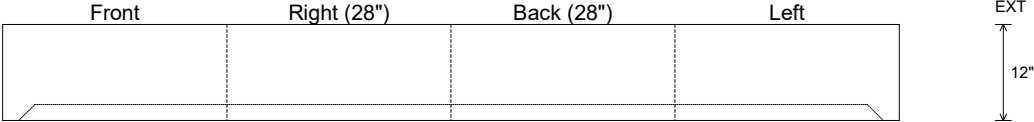
PLAN VIEW
(RIGHT SIDE UP)



SIDE VIEW
(RIGHT SIDE UP)



FRONT VIEW
(RIGHT SIDE UP)

Job Name: 26-2310 - 3rd & Madison Townhomes - Ph. 1 Job Location: Nashville, TN 37208 Contractor: Hayes Pipe Supply				Plant: 100 6/15/2026 10:59:49 AM		Tech: Jared - F PC: E. Bradley					
Structure ID: B1 ST-CB											
P2 BX2828-06R12				BOX RISER 6inW F/G							
P3) 28" x 28" - CASTING HEIGHT - 6" P2) 28" x 28" - BOX RISER 6inW F/G - 12" P1) 28" x 28" - BOX BASE 6inW, 6inF T/n - 48" 2) 28" x 28" - Conseal CS-102 1.00" 1) Hole - 16 1) Hole - 14						0 lb 822 lb 3913 lb 0 lb 0 lb 0 lb ----- Structure Total: 4735 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 SUPPLIED BY OTHERS (JBS 4300 F/G). . REINFORCING PER ASTM A615 (GRADE 60). - WALLS (As .31) #5 BARS AT 12" C.C.E.W. - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.			
Rim: 427.47' Rim to Invert: 5.56' Slack: 1.97" Sump: 1.25" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)											
											
INSIDE WALL DIMENSIONS											
											
Coating (Int): Coating (Ext):				Seam Up: Flat Seam Dn: Groove		Wall Thickness: 6" Floor Height: 0"		Height (Int): 12" Height (Ext): 12"		Weight (Net): 822 lb Volume (Net): 0.21cu.yd	