

Job Name: 26-1952 - HCWD 2 Fire Station Sanitary Sewer Extension
 Job Location: Glendale, KY
 Contractor: Phillips Bros. Construction, LLC

Plant: 100
 5/27/2026 10:48:43 AM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: A SS-MHD

P1 MH048BA30CDARED

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

- P6) 24" - CASTING HEIGHT - 7" 0 lb
- P5) 24" - GRADE RING w/ConBlock-CDA Red F/F - 4" 270 lb
- P4) 48" - MH FLAT TOP w/24" Hole ECC w/ConBlock-CDA Red F/G - 12" 1580 lb
- P3) 48" - MH RISER w/DROP/ConBlock-CDA Red T/G - 36" 2491 lb
- P2) 48" - MH RISER w/DROP/ConBlock-CDA Red T/G - 48" 3353 lb
- P1) 48" - MH BASE w/DROP/ConBlock-CDA Red T/n - 30" 3354 lb
- 1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212 0 lb
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 0 lb
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1440 lb
- 1) CASTING - HOE MC-315 F/C Sanitary 258 lb
- 3) 48" - Conseal CS-102 1.00" (Double) 0 lb
- 1) PSX - 12-08 NYLO 8 lb
- 1) Drop Elbow - 8" PVC 0 lb
- 1) Drop Tee - 8" PVC 0 lb
- 9) MH Step ML-10-TDS-NCR - 10" 0 lb

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING BY OTHERS (HOE MC-315 F/C SANITARY).
 4. EXTERERIOR DROPE ASSEMBLY AT 190°
 REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB = H20 LOADING.
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 723.5' Rim to Invert: 11.29' Slack: 1.48" Sump: 3" Structure Total: 12754 lb Step Position: 95°

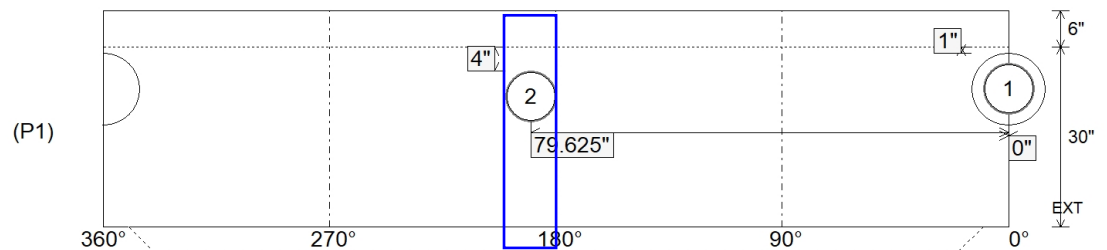
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	Offset
Invert 1	712.21'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1"	0"
Invert 2	712.31'	190°	96.125"	8" PVC SDR26	8.5"	Drop Elbow 8" PVC	8.5"	8.545"	4"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3354 lb Volume (Net): 0.86cu.yd
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Structure ID: A SS-MHD

P1A MH048BA30CDARED

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

- P6) 24" - CASTING HEIGHT - 7" 0 lb
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- P2) 48" - MH RISER w/DROP/ConBlock-CDA Red T/G - 48" 3353 lb
- P1) 48" - MH BASE w/DROP/ConBlock-CDA Red T/n - 30" 3354 lb
- 1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212 0 lb
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 0 lb
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1440 lb
- 1) CASTING - HOE MC-315 F/C Sanitary 258 lb
- 3) 48" - Conseal CS-102 1.00" (Double) 0 lb
- 1) PSX - 12-08 NYLO 8 lb
- 1) Drop Elbow - 8" PVC 0 lb
- 1) Drop Tee - 8" PVC 0 lb
- 9) MH Step ML-10-TDS-NCR - 10" 0 lb

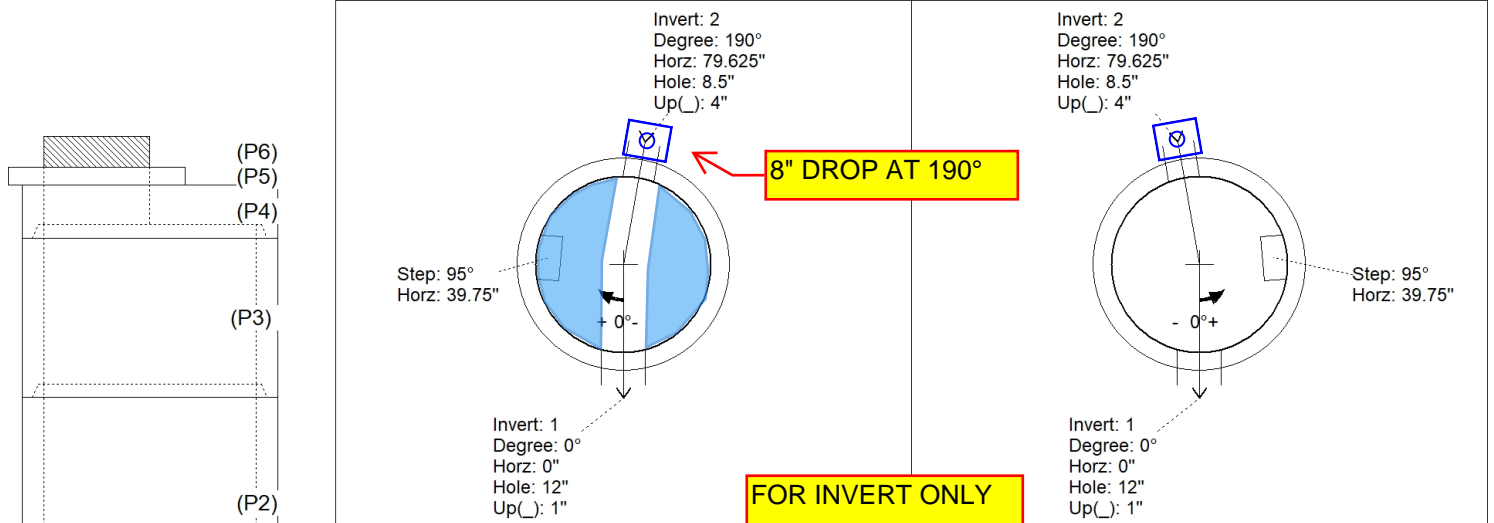
Structure Notes:
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 REINFORCING PER ASTM A615 (GRADE 60).
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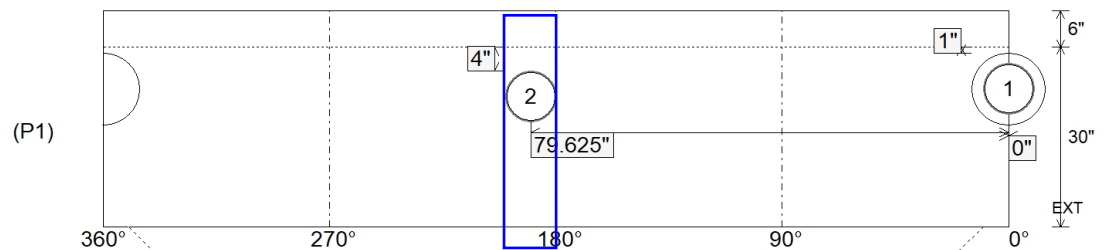
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	Offset
Invert 1	712.21'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1"	0"
Invert 2	712.31'	190°	96.125"	8" PVC SDR26	8.5"	Drop Elbow 8" PVC	8.5"	8.545"	4"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3354 lb Volume (Net): 0.86cu.yd
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Job Name: 26-1952 - HCWD 2 Fire Station Sanitary Sewer Extension
 Job Location: Glendale, KY
 Contractor: Phillips Bros. Construction, LLC

Plant: 100
 5/20/2026 3:38:15 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: B SS-MHD

P1 MH048BA48CDARED

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

- P5) 24" - CASTING HEIGHT - 7" 0 lb
- P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 3" 202 lb
- P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36" 2251 lb
- P2) 48" - MH RISER w/DROP/ConBlock-CDA Red T/G - 60" 4192 lb
- P1) 48" - MH BASE w/DROP/ConBlock-CDA Red T/n - 48" 4604 lb
- 1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212 0 lb
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 0 lb
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1440 lb
- 1) CASTING - HOE MC-315 F/C Sanitary 258 lb
- 2) 48" - Conseal CS-102 1.00" (Double) 0 lb
- 2) 24" - Conseal CS-102 1.00" (Double) 0 lb
- 1) A-Lok - 0285 1 lb
- 1) Drop Elbow - 8" PVC 0 lb
- 1) Drop Tee - 8" PVC 0 lb
- 12) MH Step ML-10-TDS-NCR - 10" 0 lb

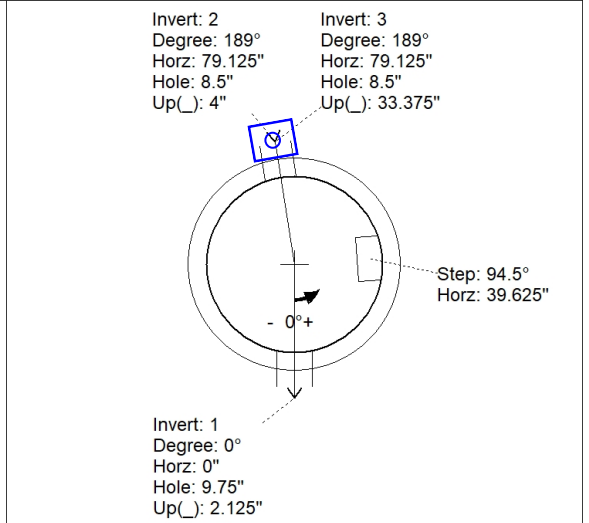
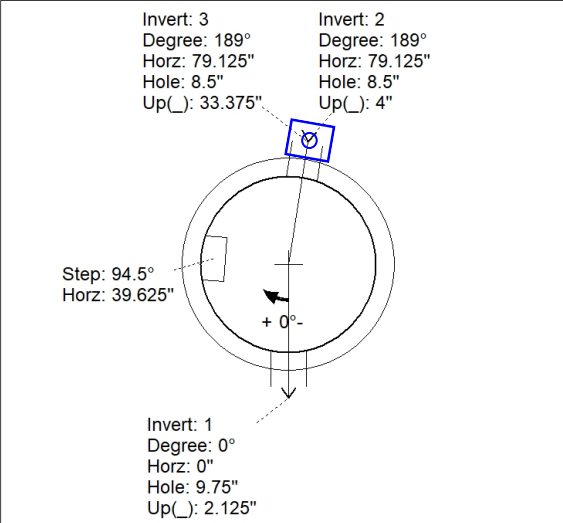
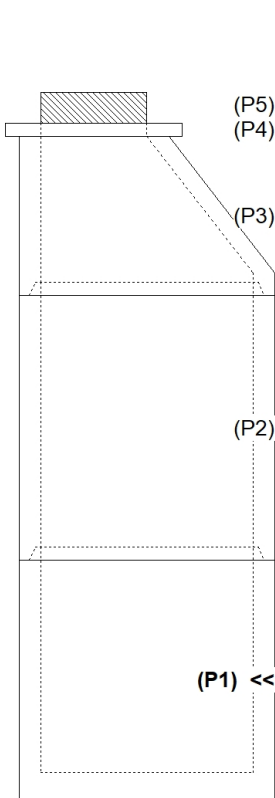
Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING BY OTHERS (HOE MC-315 F/C SANITARY)
 4. EXTERIOR DROP ASSEMBLY AT 189°.
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 737.6' Rim to Invert: 12.6' Slack: 0.2' Sump: 3" Structure Total: 12948 lb Step Position: 94.5"

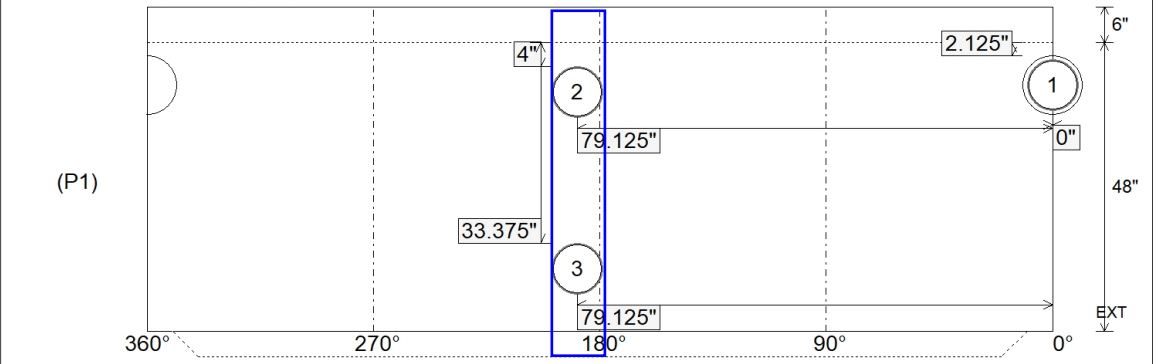
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	725'	0°	0"	8" PVC SDR26	8.5"	A-Lok 0285	9.75"	9.818"	2.125"	0"
Invert 2	725.1'	189°	95.625"	8" PVC SDR26	8.5"	Drop Elbow 8" PVC	8.5"	8.545"	4"	0"
Invert 3	727.55'	189°	95.625"	8" PVC SDR26	8.5"	Drop Tee 8" PVC	8.5"	8.545"	33.375"	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): 48" Height (Ext): 54"	Weight (Net): 4604 lb Volume (Net): 1.18cu.yd
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Structure ID: B SS-MHD

P1A MH048BA48CDARED

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- P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 3" 202 lb
- P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 36" 2251 lb
- P2) 48" - MH RISER w/DROP/ConBlock-CDA Red T/G - 60" 4192 lb
- P1) 48" - MH BASE w/DROP/ConBlock-CDA Red T/n - 48" 4604 lb
- 1) JOINT WRAP - 0.065"x12"x50' CONSEAL CS212 0 lb
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 0 lb
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1440 lb
- 1) CASTING - HOE MC-315 F/C Sanitary 258 lb
- 2) 48" - Conseal CS-102 1.00" (Double) 0 lb
- 2) 24" - Conseal CS-102 1.00" (Double) 0 lb
- 1) A-Lok - 0285 1 lb
- 1) Drop Elbow - 8" PVC 0 lb
- 1) Drop Tee - 8" PVC 0 lb
- 12) MH Step ML-10-TDS-NCR - 10" 0 lb

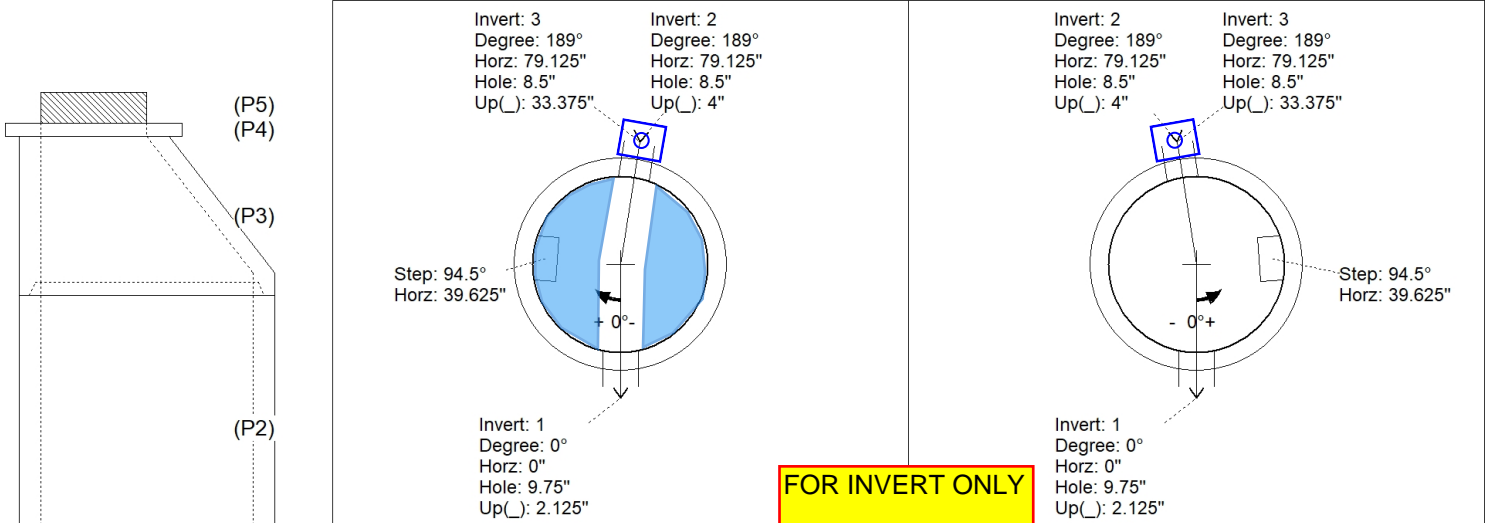
Structure Notes:
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 3. CASTING BY OTHERS (HOE MC-315 F/C SANITARY)
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 - CONE (As .12)
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 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 737.6' Rim to Invert: 12.6' Slack: 0.2' Sump: 3" Structure Total: 12948 lb Step Position: 94.5"

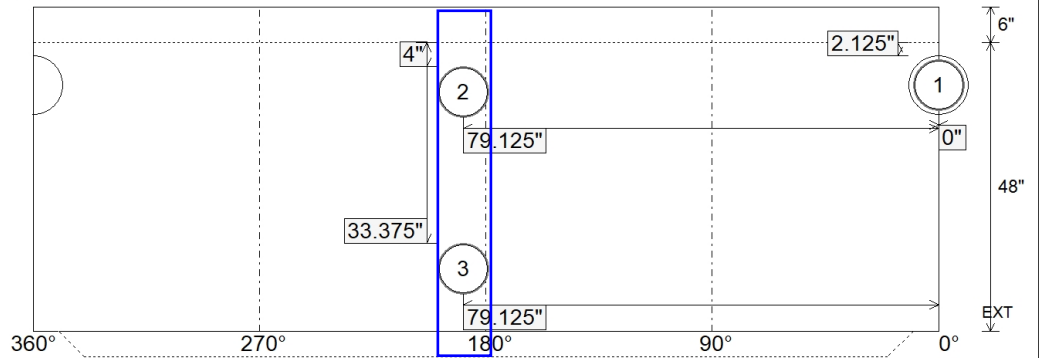
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	725'	0°	0"	8" PVC SDR26	8.5"	A-Lok 0285	9.75"	9.818"	2.125"	0"
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Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

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): 48" Height (Ext): 54"	Weight (Net): 4604 lb Volume (Net): 1.18cu.yd
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Job Name: 25-2397B - Sandy Springs Section 2 Sanitary
 Job Location: Elizabethtown, KY 42701
 Contractor: Gary Clifford

Plant: 100

5/27/2026 12:38:47 PM

Tech: J. Horsley

PC: T. Lewis



Structure ID: MH 3

P1 MH048BA24

MH BASE T/n

P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 24" - GRADE RING F/F - 4"	270 lb
P2) 48" - ECC CONE w/ 24" HOLE F/G - 30"	2050 lb
P1) 48" - MH BASE T/n - 24"	2863 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-315 F/C Sanitary	258 lb
1) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
3) PSX - 12-08 DD (DBL Bands)	24 lb
4) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	6905 lb

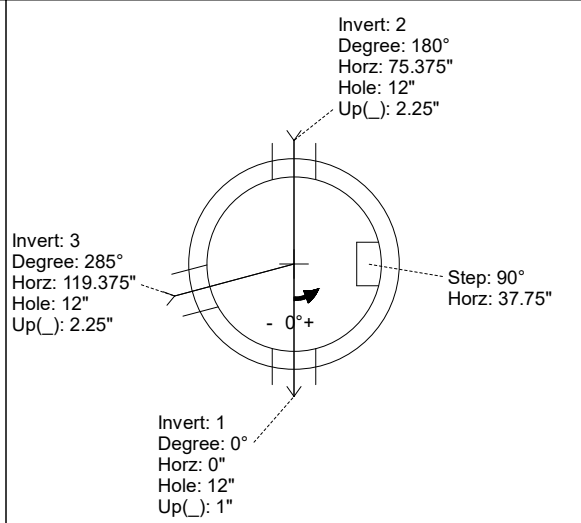
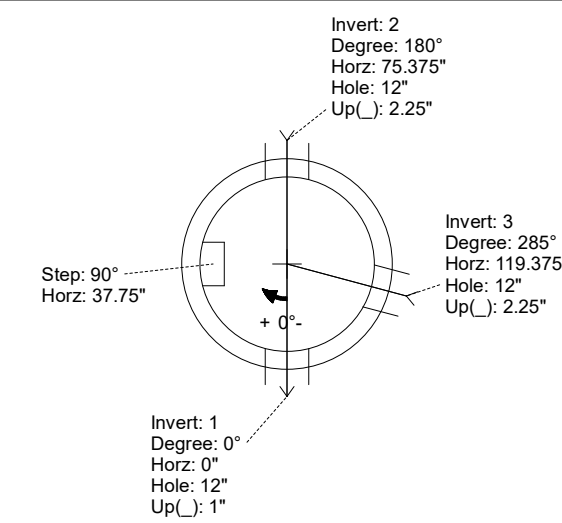
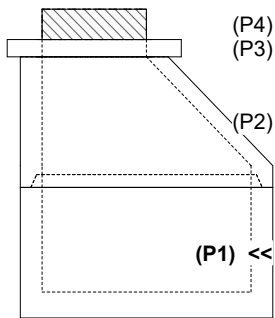
Structure Notes:
 1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. INVERT CHANNEL REQUIRED
 5. STEPS AT 90 DEGREES
 6. HOE MC-315 FRAME & COVER "SANITARY" SUPPLIED BY ICAST
 7. DOUBLE BANDS REQUIRED FOR EACH DIRECT DRIVE BOOT (SUPPLIED BY ICAST)

Rim: 689.5' Rim to Invert: 5.18' Slack: 0.16" Sump: 3" Step Position: 90°

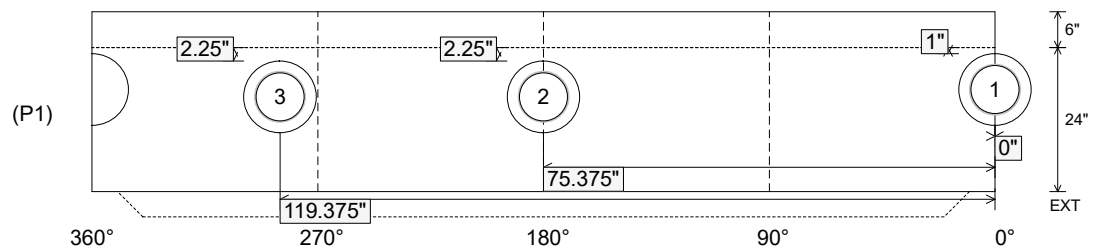
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	684.32'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1"	0"
Invert 2	684.42'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	2.25"	0"
Invert 3	684.42'	285°	144.25"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	2.25"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

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

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

Job Name: 25-2397B - Sandy Springs Section 2 Sanitary
 Job Location: Elizabethtown, KY 42701
 Contractor: Gary Clifford

Plant: 100

Tech: J. Horsley

5/27/2026 12:38:47 PM

PC: T. Lewis



Structure ID: MH 3

P1 MH048BA24

MH BASE T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - GRADE RING F/F - 4"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 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-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 3) PSX - 12-08 DD (DBL Bands)
- 4) MH Step ML-10-TDS-NCR - 10"

0 lb
 270 lb
 2050 lb
 2863 lb
 1440 lb
 0 lb
 0 lb
 258 lb
 0 lb
 0 lb
 24 lb
 0 lb

 Structure Total: 6905 lb

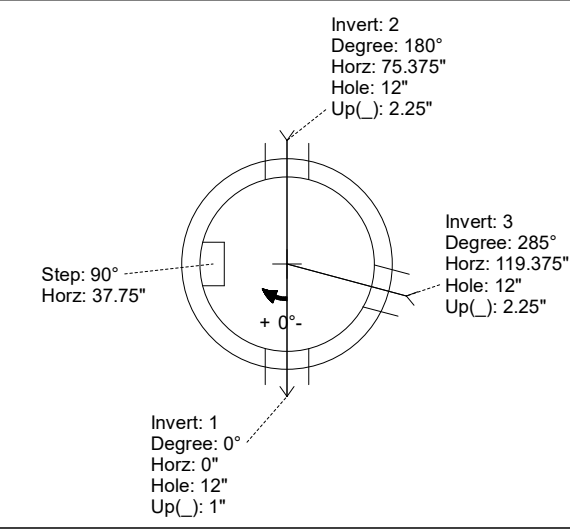
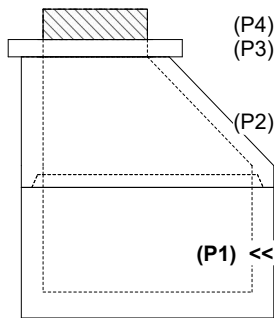
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 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. INVERT CHANNEL REQUIRED
 5. STEPS AT 90 DEGREES
 6. HOE MC-315 FRAME & COVER "SANITARY" SUPPLIED BY ICAST
 7. DOUBLE BANDS REQUIRED FOR EACH DIRECT DRIVE BOOT (SUPPLIED BY ICAST)

Rim: 689.5' Rim to Invert: 5.18' Slack: 0.16" Sump: 3" Step Position: 90°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
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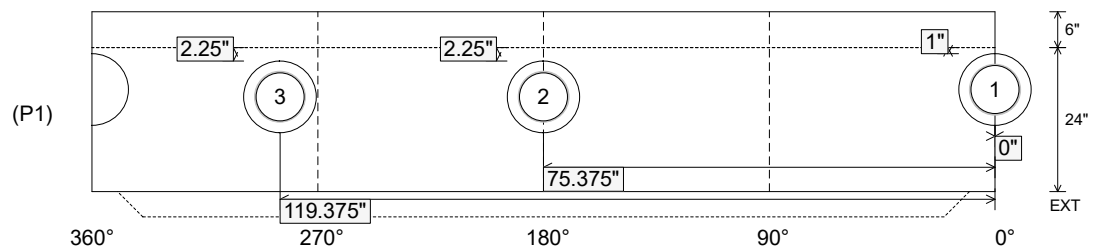
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-2397B - Sandy Springs Section 2 Sanitary
 Job Location: Elizabethtown, KY 42701
 Contractor: Gary Clifford

Plant: 100

5/27/2026 12:38:46 PM

Tech: J. Horsley

PC: T. Lewis



Structure ID: MH 2

P1 MH048BA30

MH BASE T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - GRADE RING F/F - 4"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 42"
- P1) 48" - MH BASE T/n - 30"
- 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-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 3) PSX - 12-08 DD (DBL Bands)
- 6) MH Step ML-10-TDS-NCR - 10"

0 lb
 270 lb
 3200 lb
 3282 lb
 1440 lb
 0 lb
 0 lb
 258 lb
 0 lb
 0 lb
 24 lb
 0 lb

 Structure Total: 8474 lb

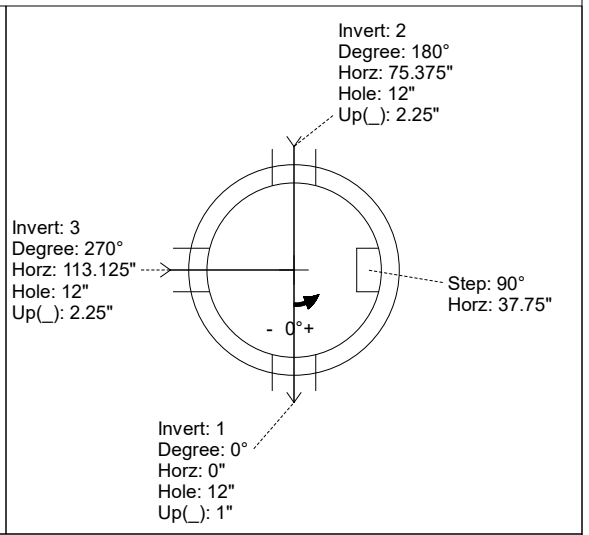
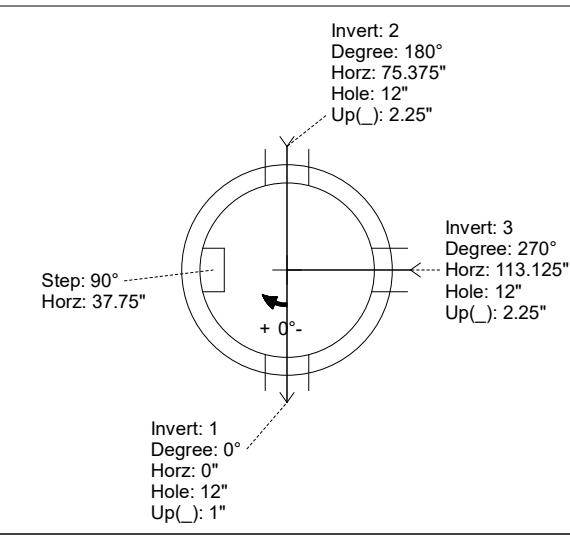
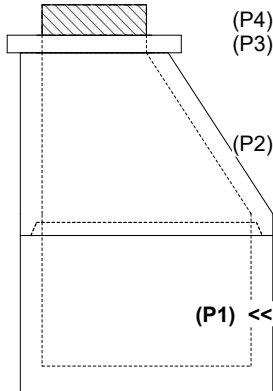
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 3. REINFORCEMENT: PER ASTM A615
 4. INVERT CHANNEL REQUIRED
 5. STEPS AT 90 DEGREES
 6. HOE MC-315 FRAME & COVER "SANITARY" SUPPLIED BY ICAST
 7. DOUBLE BANDS REQUIRED FOR EACH DIRECT DRIVE BOOT (SUPPLIED BY ICAST)

Rim: 690' Rim to Invert: 6.83' Slack: 1.96" Sump: 3" Step Position: 90°

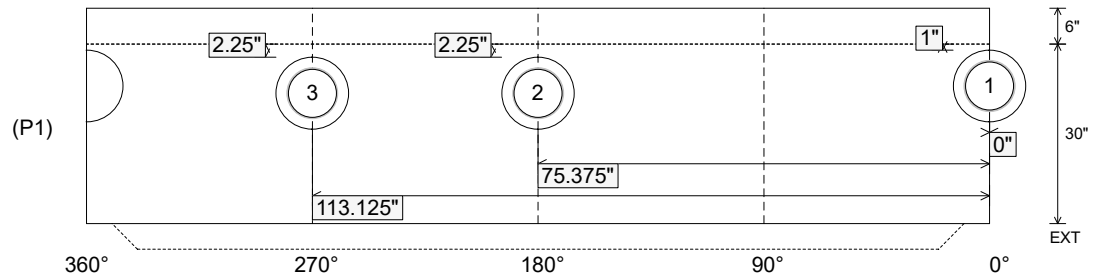
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	683.17'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1"	0"
Invert 2	683.27'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	2.25"	0"
Invert 3	683.27'	270°	136.625"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	2.25"	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: 25-2397B - Sandy Springs Section 2 Sanitary
 Job Location: Elizabethtown, KY 42701
 Contractor: Gary Clifford

Plant: 100

5/27/2026 12:38:46 PM

Tech: J. Horsley

PC: T. Lewis



Structure ID: MH 2

P1 MH048BA30

MH BASE T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - GRADE RING F/F - 4"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 42"
- P1) 48" - MH BASE T/n - 30"
- 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-315 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 3) PSX - 12-08 DD (DBL Bands)
- 6) MH Step ML-10-TDS-NCR - 10"

0 lb
 270 lb
 3200 lb
 3282 lb
 1440 lb
 0 lb
 0 lb
 258 lb
 0 lb
 0 lb
 24 lb
 0 lb

 Structure Total: 8474 lb

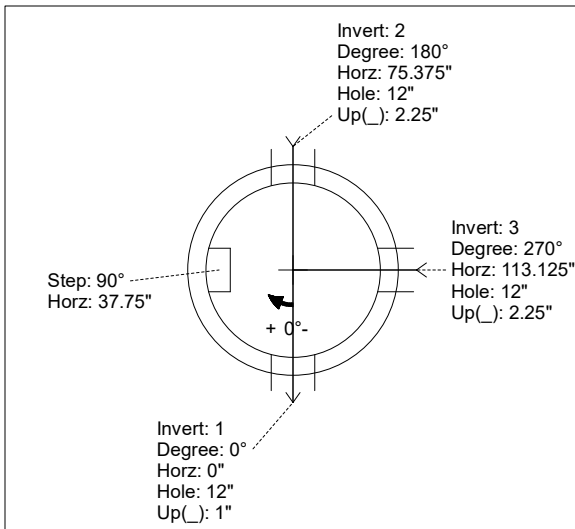
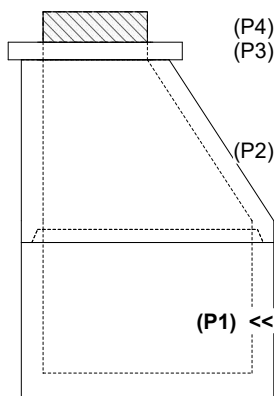
- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. INVERT CHANNEL REQUIRED
 5. STEPS AT 90 DEGREES
 6. HOE MC-315 FRAME & COVER "SANITARY" SUPPLIED BY ICAST
 7. DOUBLE BANDS REQUIRED FOR EACH DIRECT DRIVE BOOT (SUPPLIED BY ICAST)

Rim: 690' Rim to Invert: 6.83' Slack: 1.96" Sump: 3" Step Position: 90°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	683.17'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	1"	0"
Invert 2	683.27'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	2.25"	0"
Invert 3	683.27'	270°	136.625"	8" PVC SDR35	8.5"	PSX 12-08 DD (DBL Bands)	12"	12.129"	2.25"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

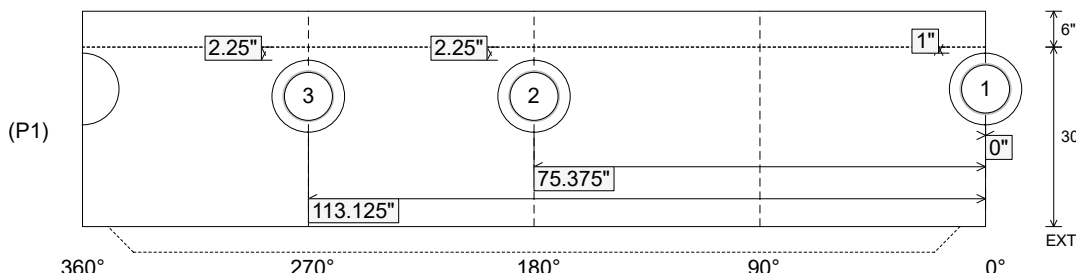
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

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Tech: Jared - A

PC: A. Chambers



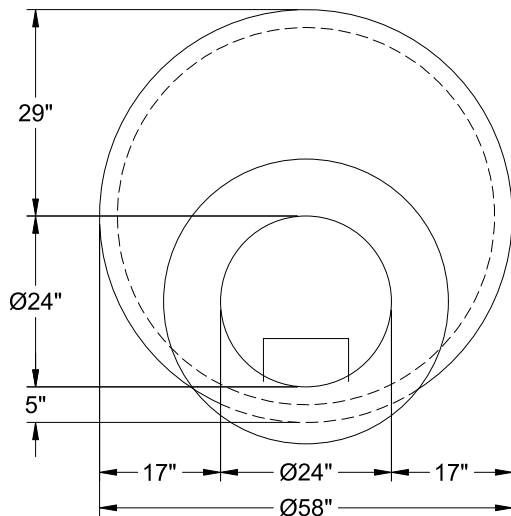
Structure ID: B-1

P3 MH048CN30CDARED

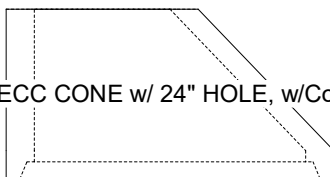
ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G

P5) 24" - CASTING HEIGHT - 6"	0 lb
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 3"	202 lb
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"	1961 lb
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 48"	3353 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"	2911 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - 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) ADMIXTURE CONBLOCK CDA RED	0 lb
1) CASTING - JBS 1155 F/C SANITARY	250 lb
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 12-08 NYLO	16 lb
9) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	10134 lb

Structure Notes:
 1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. CONBLOCK CDA RED ADMIXTURE REQUIRED
 5. STEPS REQUIRED
 6. JBS 1155 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: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

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Tech: Jared - A

PC: A. Chambers



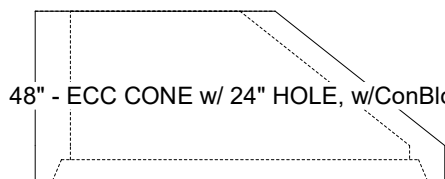
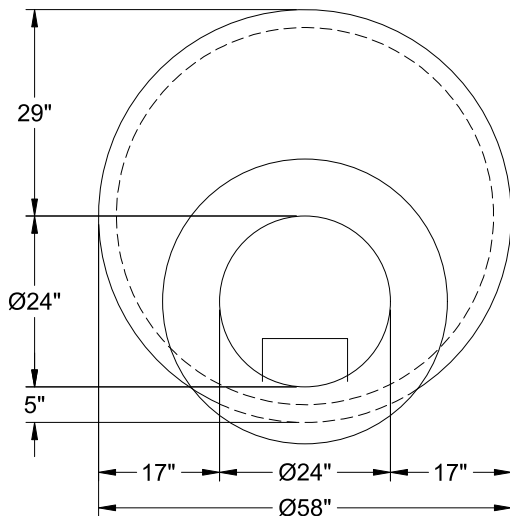
Structure ID: A-8

P3 MH048CN24CDARED

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

P4) 24" - CASTING HEIGHT - 6"	0 lb
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 24"	1738 lb
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"	4192 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"	2911 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - 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) ADMIXTURE CONBLOCK CDA RED	0 lb
1) CASTING - JBS 1155 F/C SANITARY	250 lb
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 12-08 NYLO	16 lb
9) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	10547 lb

Structure Notes:
 1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. CONBLOCK CDA RED ADMIXTURE REQUIRED
 5. STEPS REQUIRED
 6. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST



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

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 24"

Weight (Net): 1738 lb
 Volume (Net): 0.44cu.yd

Structure ID: A-8

P2 MH048RS60CDARED

MH RISER w/ConBlock-CDA Red T/G

P4) 24" - CASTING HEIGHT - 6" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 24" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24" 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) ADMIXTURE CONBLOCK CDA RED 1) CASTING - JBS 1155 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 9) MH Step ML-10-TDS-NCR - 10"	0 lb 1738 lb 4192 lb 2911 lb 1440 lb 0 lb 0 lb 0 lb 250 lb 0 lb 0 lb 16 lb 0 lb ----- Structure Total: 10547 lb
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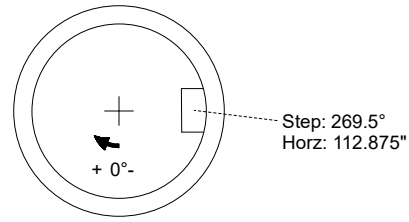
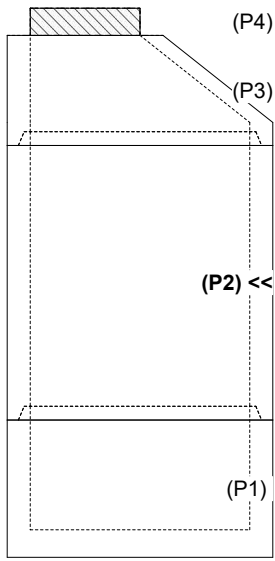
Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615
4. CONBLOCK CDA RED ADMIXTURE REQUIRED
5. STEPS AT 269.5 DEGREES
6. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

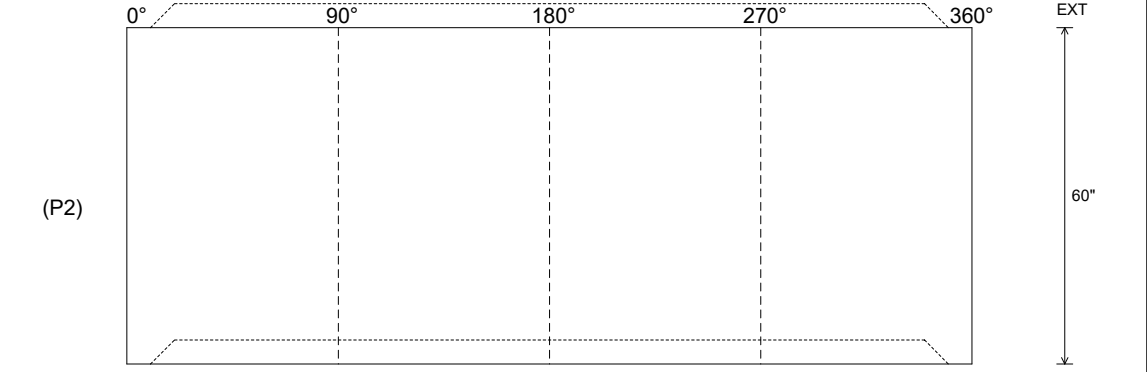
Rim: 447.43' Rim to Invert: 9.57' Slack: 2.84" Sump: 2" Step Position: 269.5°

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

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 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: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

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Tech: Jared - A

PC: A. Chambers



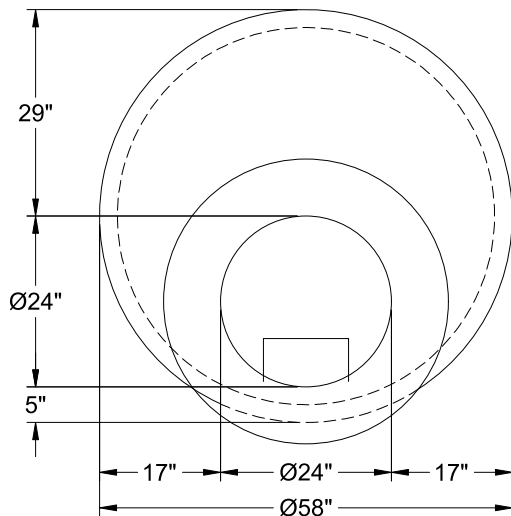
Structure ID: A-7

P3 MH048CN42CDARED

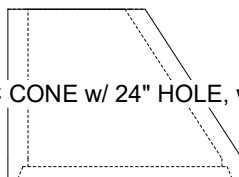
ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G

P4) 24" - CASTING HEIGHT - 6"	0 lb
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42"	3116 lb
P2) 48" - MH RISER SPECIAL w/ConBlock-CDA Red T/G - 60"	4170 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 36"	3749 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - 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) ADMIXTURE CONBLOCK CDA RED	0 lb
1) CASTING - JBS 1155 F/C SANITARY	250 lb
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 12-08 NYLO	16 lb
1) PSX - 8QRS DD	6 lb
12) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	12749 lb

Structure Notes:
 1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. CONBLOCK CDA RED ADMIXTURE REQUIRED
 5. STEPS REQUIRED
 6. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST



48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42" - (P3)



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 42"

Weight (Net): 3116 lb
 Volume (Net): 0.8cu.yd

Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

5/14/2026 2:16:07 PM

Tech: Jared - A

PC: A. Chambers



Structure ID: B-1

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

P5) 24" - CASTING HEIGHT - 6"	0 lb
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 3"	202 lb
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"	1961 lb
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 48"	3353 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"	2911 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - 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) ADMIXTURE CONBLOCK CDA RED	0 lb
1) CASTING - JBS 1155 F/C SANITARY	250 lb
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 12-08 NYLO	16 lb
9) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	10134 lb

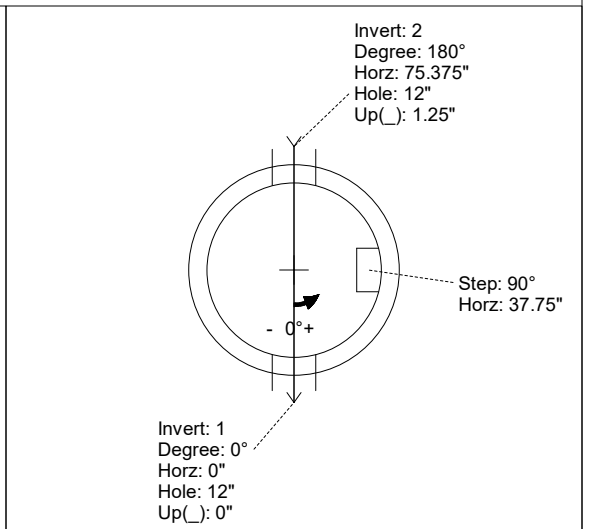
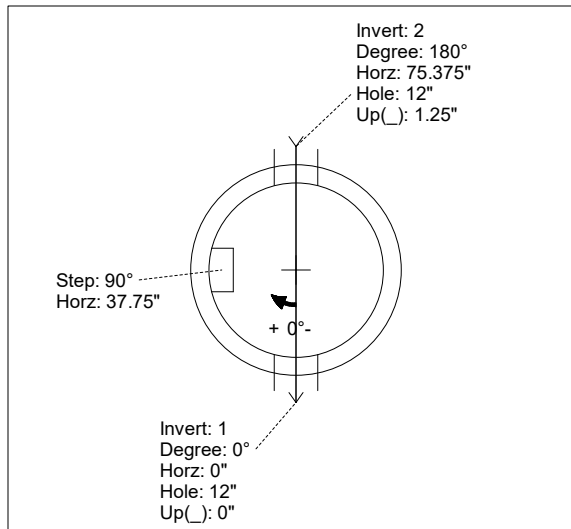
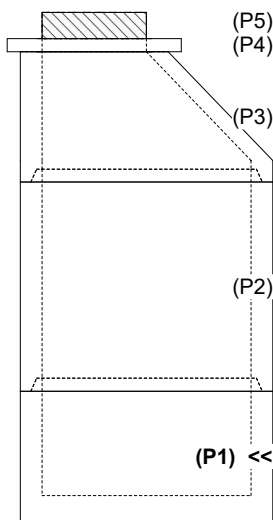
Structure Notes:
 1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. INVERT CHANNEL REQUIRED
 5. CONBLOCK CDA RED ADMIXTURE REQUIRED
 6. STEPS AT 90 DEGREES
 7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

Rim: 427.83' Rim to Invert: 9.13' Slack: 0.56" Sump: 2" Step Position: 90°

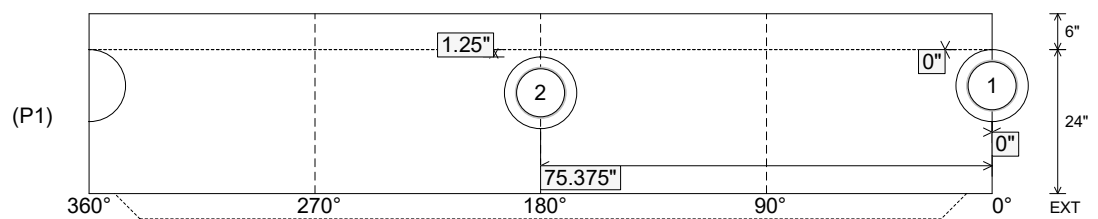
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	418.7'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	418.8'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

Weight (Net): 2911 lb
 Volume (Net): 0.74cu.yd

Structure ID: B-1

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

P5) 24" - CASTING HEIGHT - 6"	0 lb
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 3"	202 lb
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"	1961 lb
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 48"	3353 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"	2911 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - 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) ADMIXTURE CONBLOCK CDA RED	0 lb
1) CASTING - JBS 1155 F/C SANITARY	250 lb
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 12-08 NYLO	16 lb
9) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	10134 lb

Structure Notes:

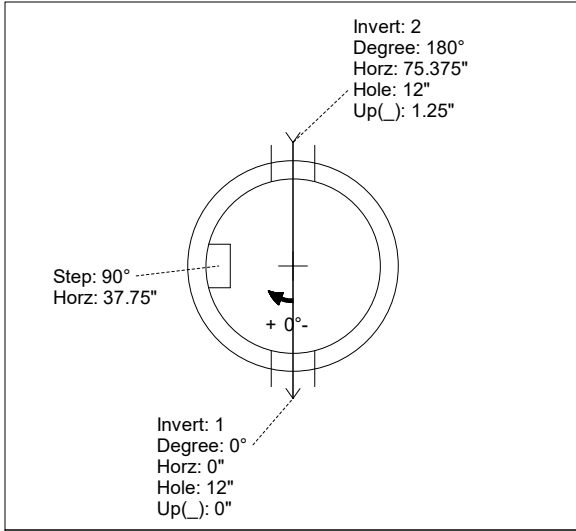
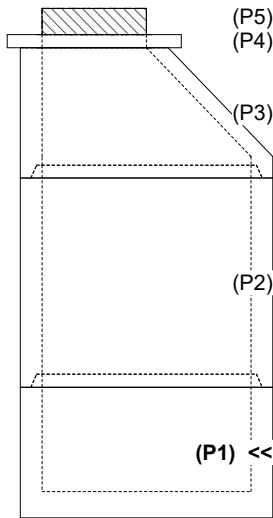
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615
4. INVERT CHANNEL REQUIRED
5. CONBLOCK CDA RED ADMIXTURE REQUIRED
6. STEPS AT 90 DEGREES
7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

Rim: 427.83' Rim to Invert: 9.13' Slack: 0.56" Sump: 2" Step Position: 90°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	418.7'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	418.8'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

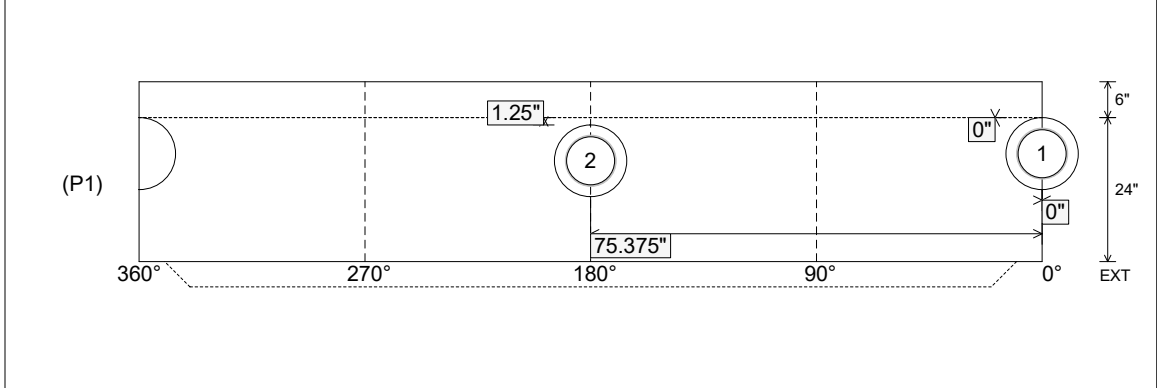
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2911 lb Volume (Net): 0.74cu.yd
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Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

5/14/2026 2:16:59 PM

Tech: Jared - A

PC: A. Chambers



Structure ID: B-1

P2 MH048RS48CDARED

MH RISER w/ConBlock-CDA Red T/G

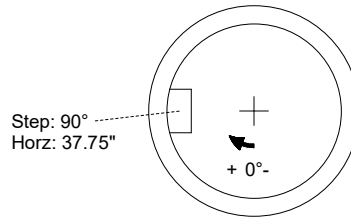
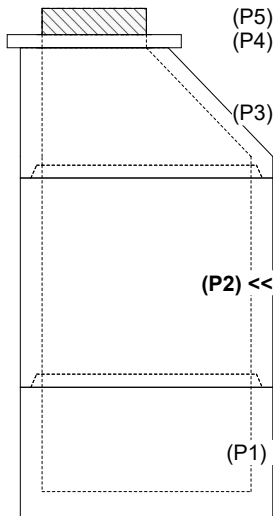
P5) 24" - CASTING HEIGHT - 6"	0 lb
P4) 24" - GRADE RING w/ConBlock-CDA Red F/F - 3"	202 lb
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"	1961 lb
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 48"	3353 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"	2911 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - 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) ADMIXTURE CONBLOCK CDA RED	0 lb
1) CASTING - JBS 1155 F/C SANITARY	250 lb
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) PSX - 12-08 NYLO	16 lb
9) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	10134 lb

Structure Notes:
 1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. CONBLOCK CDA RED ADMIXTURE REQUIRED
 5. STEPS AT 90 DEGREES
 6. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

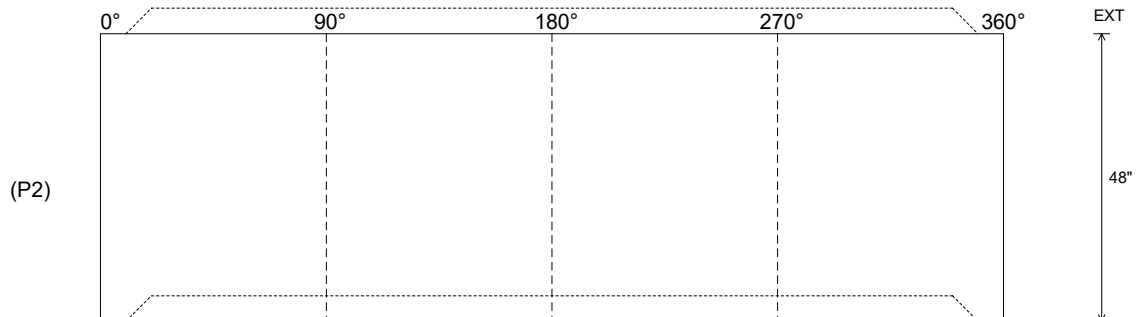
Rim: 427.83' Rim to Invert: 9.13' Slack: 0.56" Sump: 2" Step Position: 90°

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

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: Groove

Wall Thickness: 5"
 Floor Height: 0"

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

Weight (Net): 3353 lb
 Volume (Net): 0.86cu.yd

Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

5/14/2026 2:16:06 PM

Tech: Jared - A

PC: A. Chambers



Structure ID: A-10

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

P4) 24" - CASTING HEIGHT - 6"	0 lb
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"	1961 lb
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 24"	1677 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"	3336 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - 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) ADMIXTURE CONBLOCK CDA RED	0 lb
1) CASTING - JBS 1155 F/C SANITARY	250 lb
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
1) PSX - 12-08 NYLO	8 lb
2) PSX - 8QRS-S NYLO	13 lb
7) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	8685 lb

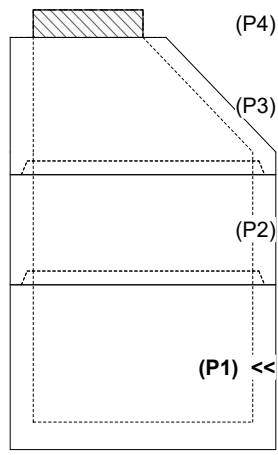
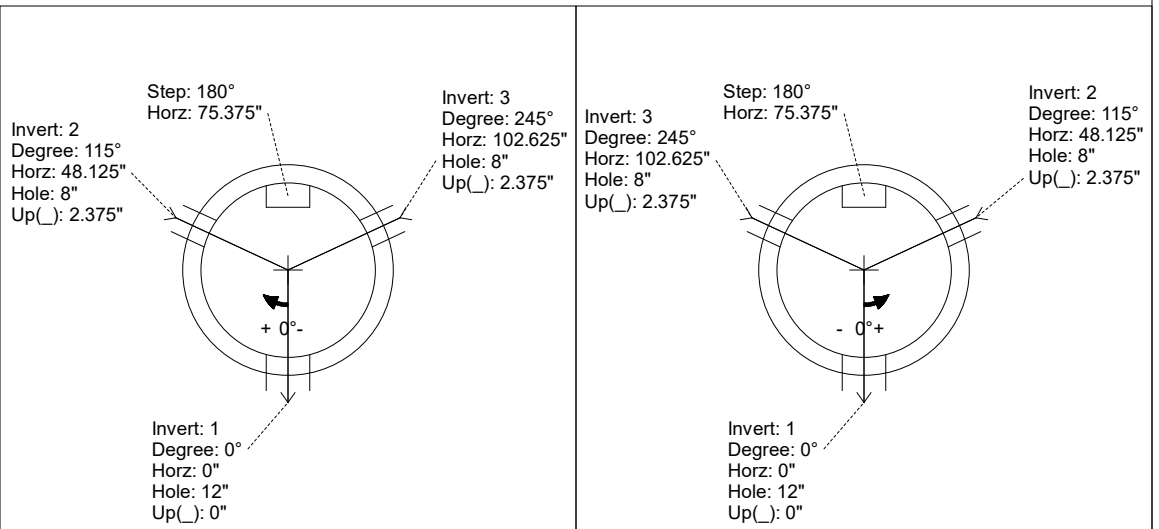
Structure Notes:
 1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. INVERT CHANNEL REQUIRED
 5. CONBLOCK CDA RED ADMIXTURE REQUIRED
 6. STEPS AT 180 DEGREES
 7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

Rim: 469.8' Rim to Invert: 7.35' Slack: 0.2" Sump: 2" Step Position: 180°

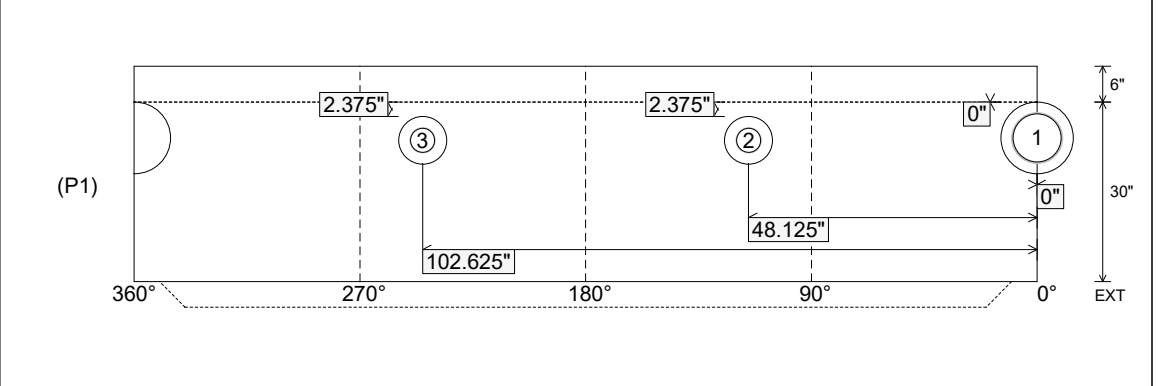
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	462.45'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	462.65'	115°	58.25"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8.038"	2.375"	0"
Invert 3	462.65'	245°	124"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8.038"	2.375"	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): 3336 lb Volume (Net): 0.85cu.yd
----------------------------------	---------------------------------	--	--	--

Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

5/14/2026 2:16:06 PM

Tech: Jared - A

PC: A. Chambers



Structure ID: A-10

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 6"
- P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 30"
- P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 24"
- P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE CONBLOCK CDA RED
- 1) CASTING - JBS 1155 F/C SANITARY
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 1) PSX - 12-08 NYLO
- 2) PSX - 8QRS-S NYLO
- 7) MH Step ML-10-TDS-NCR - 10"

0 lb
 1961 lb
 1677 lb
 3336 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 250 lb
 0 lb
 0 lb
 8 lb
 13 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 REQUIRED
 5. CONBLOCK CDA RED ADMIXTURE REQUIRED
 6. STEPS AT 180 DEGREES
 7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

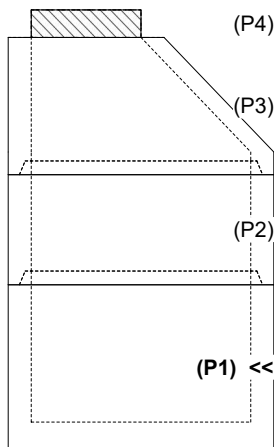
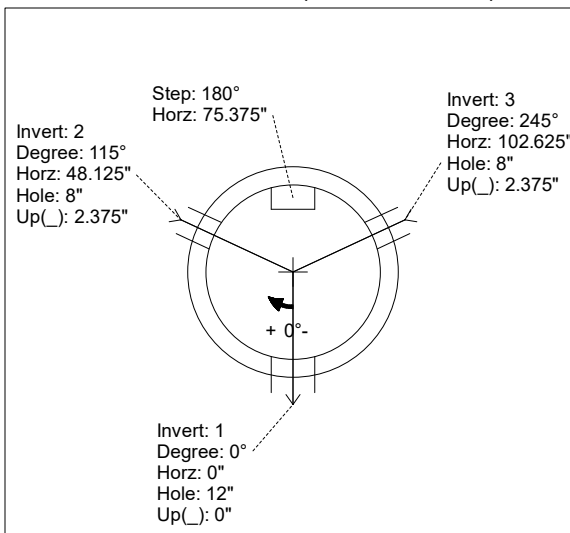
Structure Total: 8685 lb

Rim: 469.8' Rim to Invert: 7.35' Slack: 0.2" Sump: 2" Step Position: 180°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	462.45'	0°	0"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	462.65'	115°	58.25"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8.038"	2.375"	0"
Invert 3	462.65'	245°	124"	4" PVC SDR35	4.25"	PSX 8QRS-S NYLO	8"	8.038"	2.375"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

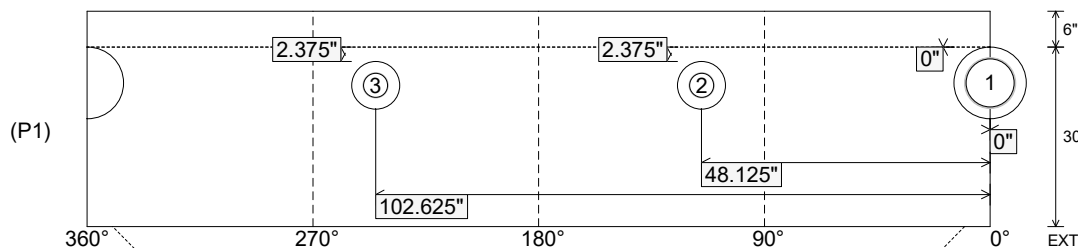
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

Weight (Net): 3336 lb
 Volume (Net): 0.85cu.yd

Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

5/14/2026 2:16:05 PM

Tech: Jared - A

PC: A. Chambers



Structure ID: A-9

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 6"
- P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42"
- P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 36"
- P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE CONBLOCK CDA RED
- 1) CASTING - JBS 1155 F/C SANITARY
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 9) MH Step ML-10-TDS-NCR - 10"

0 lb
 3116 lb
 2515 lb
 3330 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 250 lb
 0 lb
 0 lb
 16 lb
 0 lb

 10667 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. CONBLOCK CDA RED ADMIXTURE REQUIRED
 6. STEPS AT 269 DEGREES
 7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

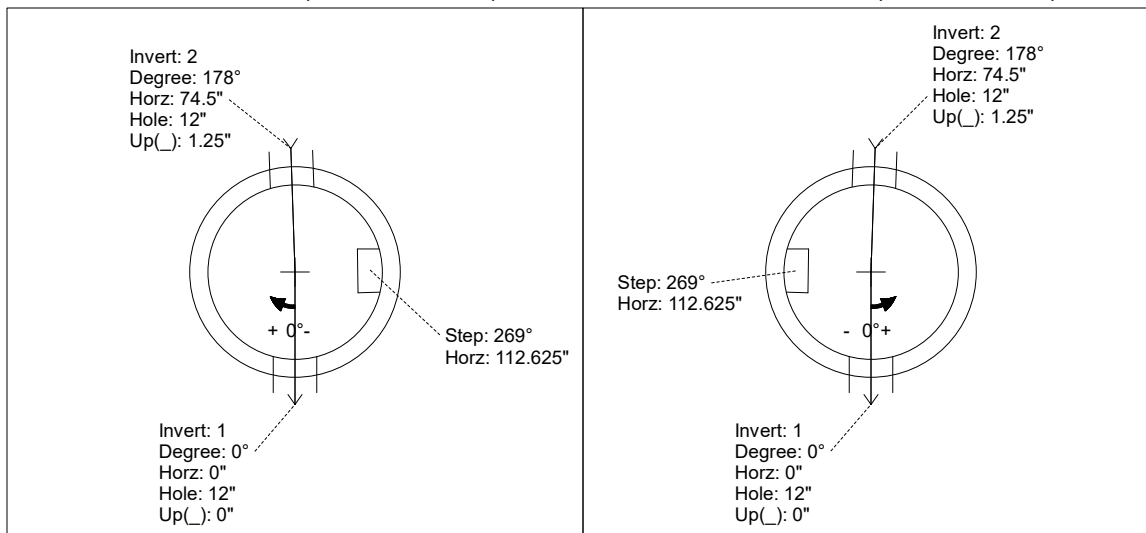
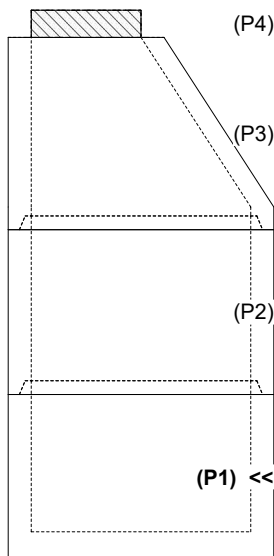
Structure Total: 10667 lb

Rim: 462.12' Rim to Invert: 9.49' Slack: 1.88" Sump: 2" Step Position: 269°

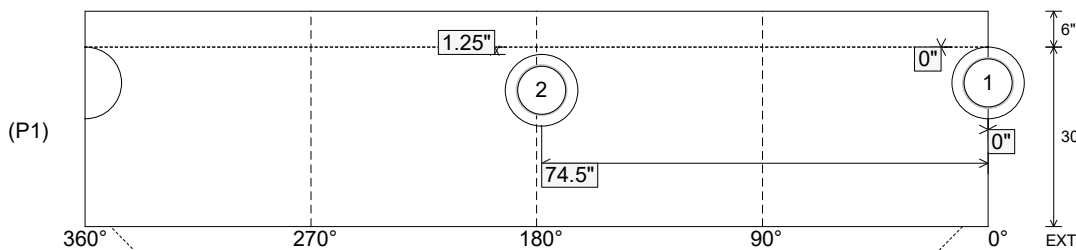
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	452.63'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	452.73'	178°	90.125"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

5/14/2026 2:16:05 PM

Tech: Jared - A

PC: A. Chambers



Structure ID: A-9

P1 MH048BA30CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 6"
- P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42"
- P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 36"
- P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 30"
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE CONBLOCK CDA RED
- 1) CASTING - JBS 1155 F/C SANITARY
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 9) MH Step ML-10-TDS-NCR - 10"

0 lb
 3116 lb
 2515 lb
 3330 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 250 lb
 0 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 10667 lb

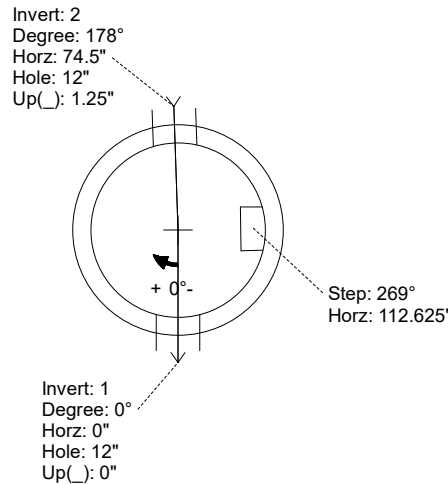
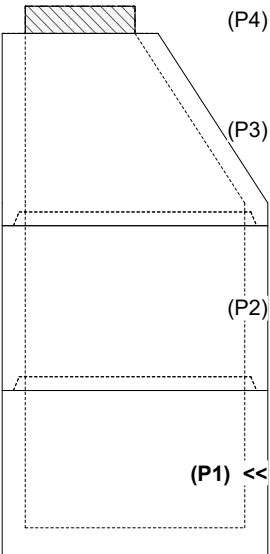
- Structure Notes:
1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. INVERT CHANNEL REQUIRED
 5. CONBLOCK CDA RED ADMIXTURE REQUIRED
 6. STEPS AT 269 DEGREES
 7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

Rim: 462.12' Rim to Invert: 9.49' Slack: 1.88" Sump: 2" Step Position: 269°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	452.63'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	452.73'	178°	90.125"	8" PVC SDR26	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

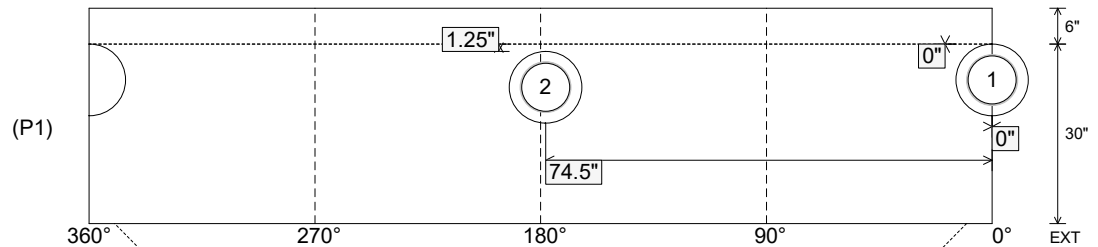
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

5/14/2026 2:16:04 PM

Tech: Jared - A

PC: A. Chambers



Structure ID: A-8

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 6"
- P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 24"
- P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60"
- P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE CONBLOCK CDA RED
- 1) CASTING - JBS 1155 F/C SANITARY
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 9) MH Step ML-10-TDS-NCR - 10"

0 lb
 1738 lb
 4192 lb
 2911 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 250 lb
 0 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 10547 lb

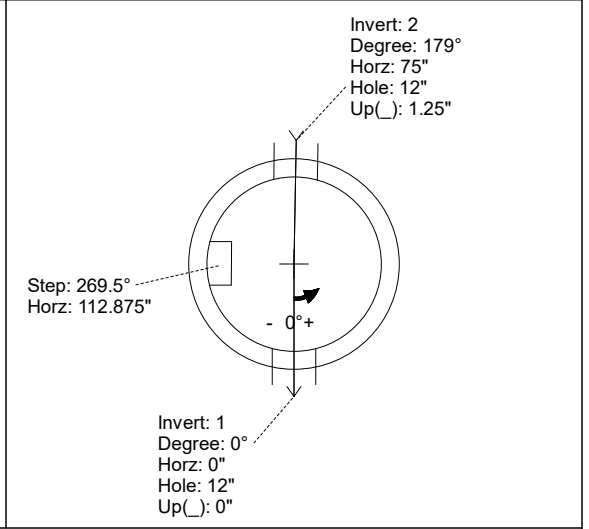
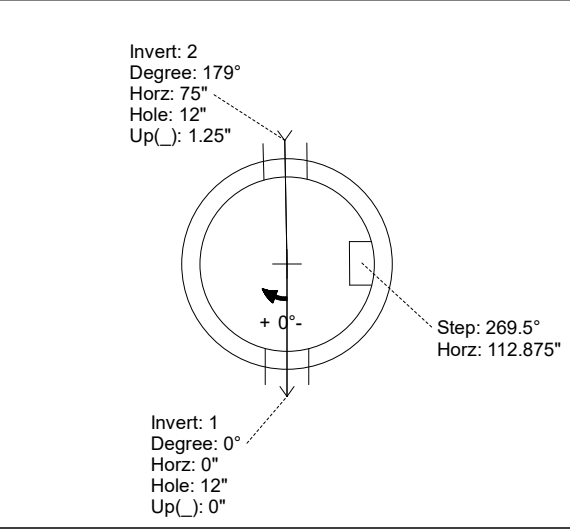
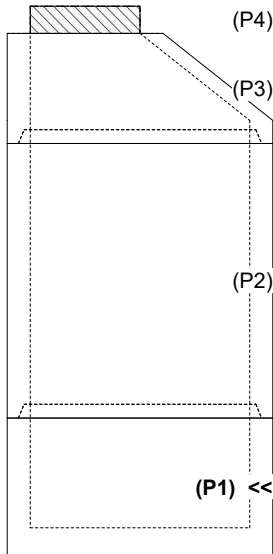
- Structure Notes:
1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. INVERT CHANNEL REQUIRED
 5. CONBLOCK CDA RED ADMIXTURE REQUIRED
 6. STEPS AT 269.5 DEGREES
 7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

Rim: 447.43' Rim to Invert: 9.57' Slack: 2.84" Sump: 2" Step Position: 269.5°

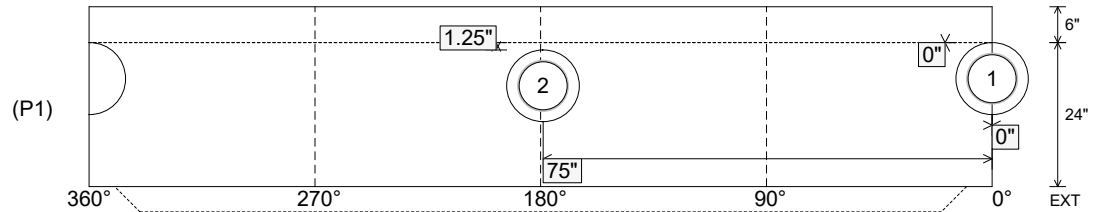
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	437.86'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	437.96'	179°	90.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

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): 2911 lb
 Volume (Net): 0.74cu.yd

Structure ID: A-8

P1 MH048BA24CDARED

MH BASE w/ConBlock-CDA Red T/n

P4) 24" - CASTING HEIGHT - 6" P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 24" P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 60" P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24" 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) ADMIXTURE CONBLOCK CDA RED 1) CASTING - JBS 1155 F/C SANITARY 2) 48" - Conseal CS-102 1.00" (Double) 1) 24" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 9) MH Step ML-10-TDS-NCR - 10"	0 lb 1738 lb 4192 lb 2911 lb 1440 lb 0 lb 0 lb 0 lb 250 lb 0 lb 0 lb 16 lb 0 lb ----- Structure Total: 10547 lb
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Structure Notes:

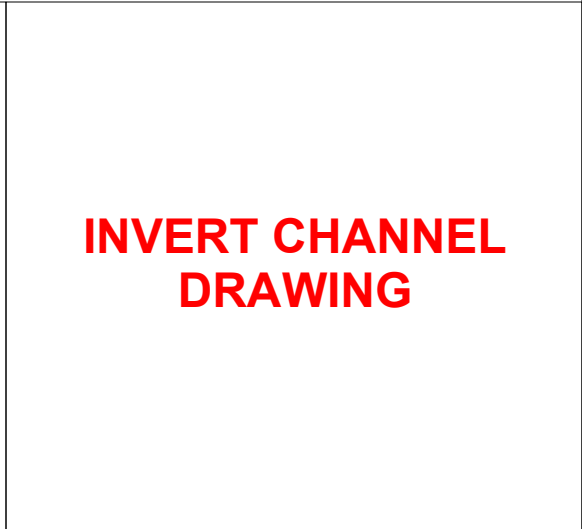
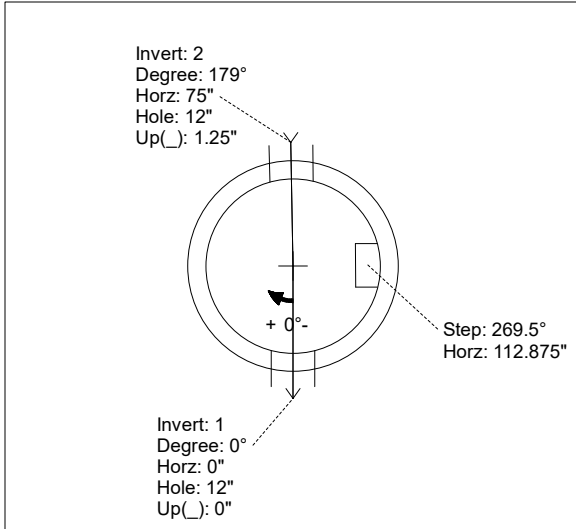
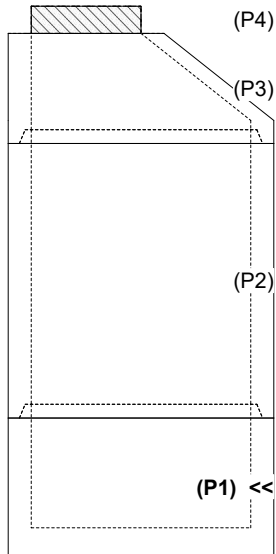
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615
4. INVERT CHANNEL REQUIRED
5. CONBLOCK CDA RED ADMIXTURE REQUIRED
6. STEPS AT 269.5 DEGREES
7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

Rim: 447.43' Rim to Invert: 9.57' Slack: 2.84" Sump: 2" Step Position: 269.5°

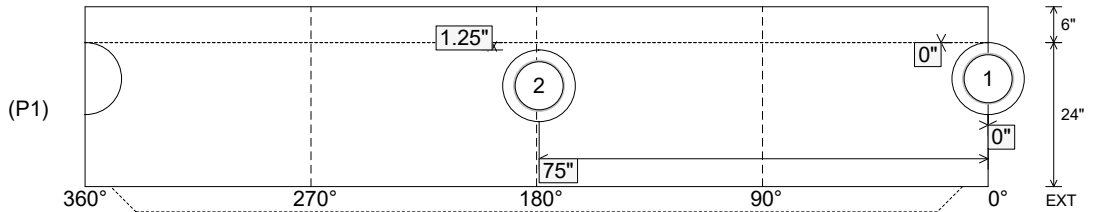
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	437.86'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	437.96'	179°	90.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 24" Height (Ext): 30"	Weight (Net): 2911 lb Volume (Net): 0.74cu.yd
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Job Name: 25-2422 - Woodland Springs Section 3 (Sanitary)
 Job Location: Clarksville, TN
 Contractor: Byard Construction, LLC

Plant: 100

5/14/2026 2:16:03 PM

Tech: Jared - A

PC: A. Chambers



Structure ID: A-7

P1 MH048BA36CDARED

MH BASE w/ConBlock-CDA Red T/n

- P4) 24" - CASTING HEIGHT - 6"
- P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42"
- P2) 48" - MH RISER SPECIAL w/ConBlock-CDA Red T/G - 60"
- P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 36"
- 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE CONBLOCK CDA RED
- 1) CASTING - JBS 1155 F/C SANITARY
- 2) 48" - Conseal CS-102 1.00" (Double)
- 1) 24" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 1) PSX - 8QRS DD
- 12) MH Step ML-10-TDS-NCR - 10"

0 lb
 3116 lb
 4170 lb
 3749 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 250 lb
 0 lb
 0 lb
 16 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 REQUIRED
 5. CONBLOCK CDA RED ADMIXTURE REQUIRED
 6. STEPS AT 286.5 DEGREES
 7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST

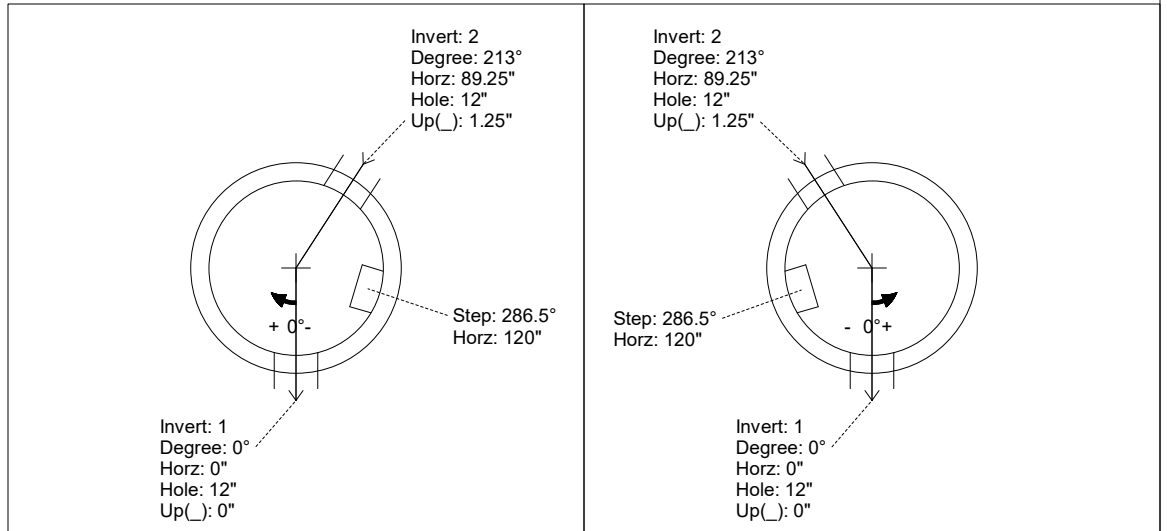
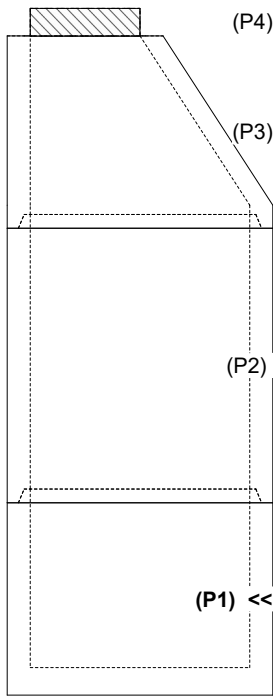
Structure Total: 12749 lb

Rim: 438.1' Rim to Invert: 12.04' Slack: 2.48" Sump: 2" Step Position: 286.5°

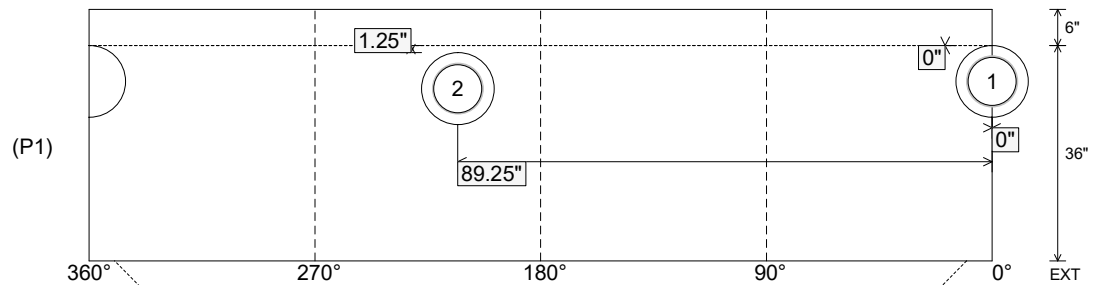
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	426.06'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	426.16'	213°	107.75"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

Weight (Net): 3749 lb
 Volume (Net): 0.96cu.yd

Structure ID: A-7

P1 MH048BA36CDARED

MH BASE w/ConBlock-CDA Red T/n

- | | | |
|--|---|--|
| P4) 24" - CASTING HEIGHT - 6"
P3) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red F/G - 42"
P2) 48" - MH RISER SPECIAL w/ConBlock-CDA Red T/G - 60"
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 36"
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
1) ADMIXTURE CONBLOCK CDA RED
1) CASTING - JBS 1155 F/C SANITARY
2) 48" - Conseal CS-102 1.00" (Double)
1) 24" - Conseal CS-102 1.00" (Double)
2) PSX - 12-08 NYLO
1) PSX - 8QRS DD
12) MH Step ML-10-TDS-NCR - 10" | 0 lb
3116 lb
4170 lb
3749 lb
1440 lb
0 lb
0 lb
0 lb
250 lb
0 lb
0 lb
0 lb
16 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 REQUIRED
5. CONBLOCK CDA RED ADMIXTURE REQUIRED
6. STEPS AT 286.5 DEGREES
7. JBS 1155 FRAME & COVER "SANITARY" SUPPLIED BY ICAST |
|--|---|--|

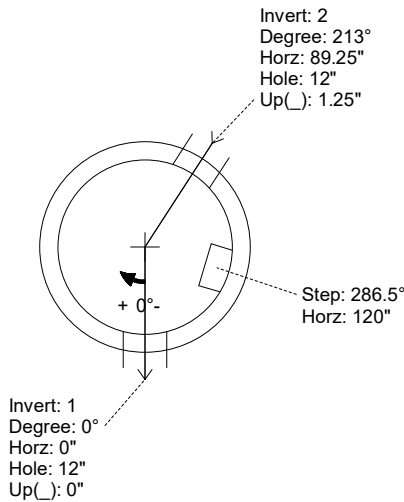
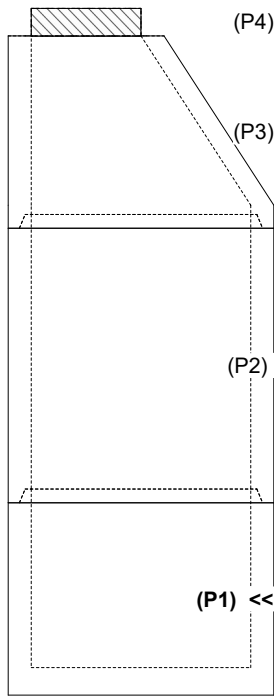
Structure Total: 12749 lb

Rim: 438.1' Rim to Invert: 12.04' Slack: 2.48" Sump: 2" Step Position: 286.5°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	426.06'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	426.16'	213°	107.75"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

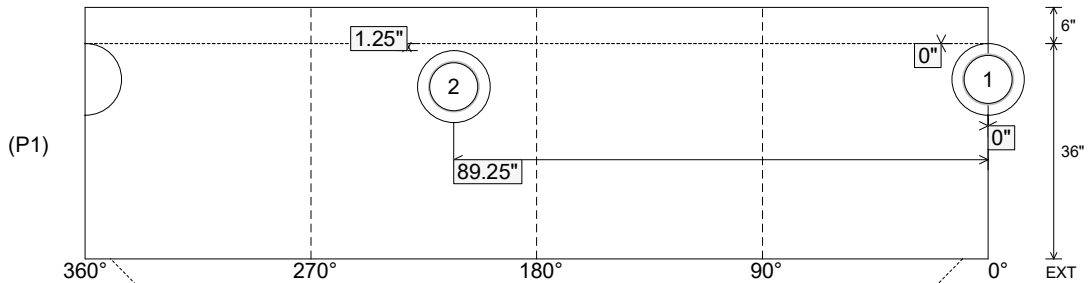
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 36" Height (Ext): 42"	Weight (Net): 3749 lb Volume (Net): 0.96cu.yd
----------------------------------	---------------------------------	--	--	--

Job Name: 26-1694 1212 Baptist World Center Dr	Plant: Beaver Dam	Tech: S. Felletter	
Job Location: Nashville, TN Contractor: Hayes Pipe Supply	5/20/2026 9:22:39 AM	PC: E. Bradley	

Structure ID: MH-A0-2 SS-MH

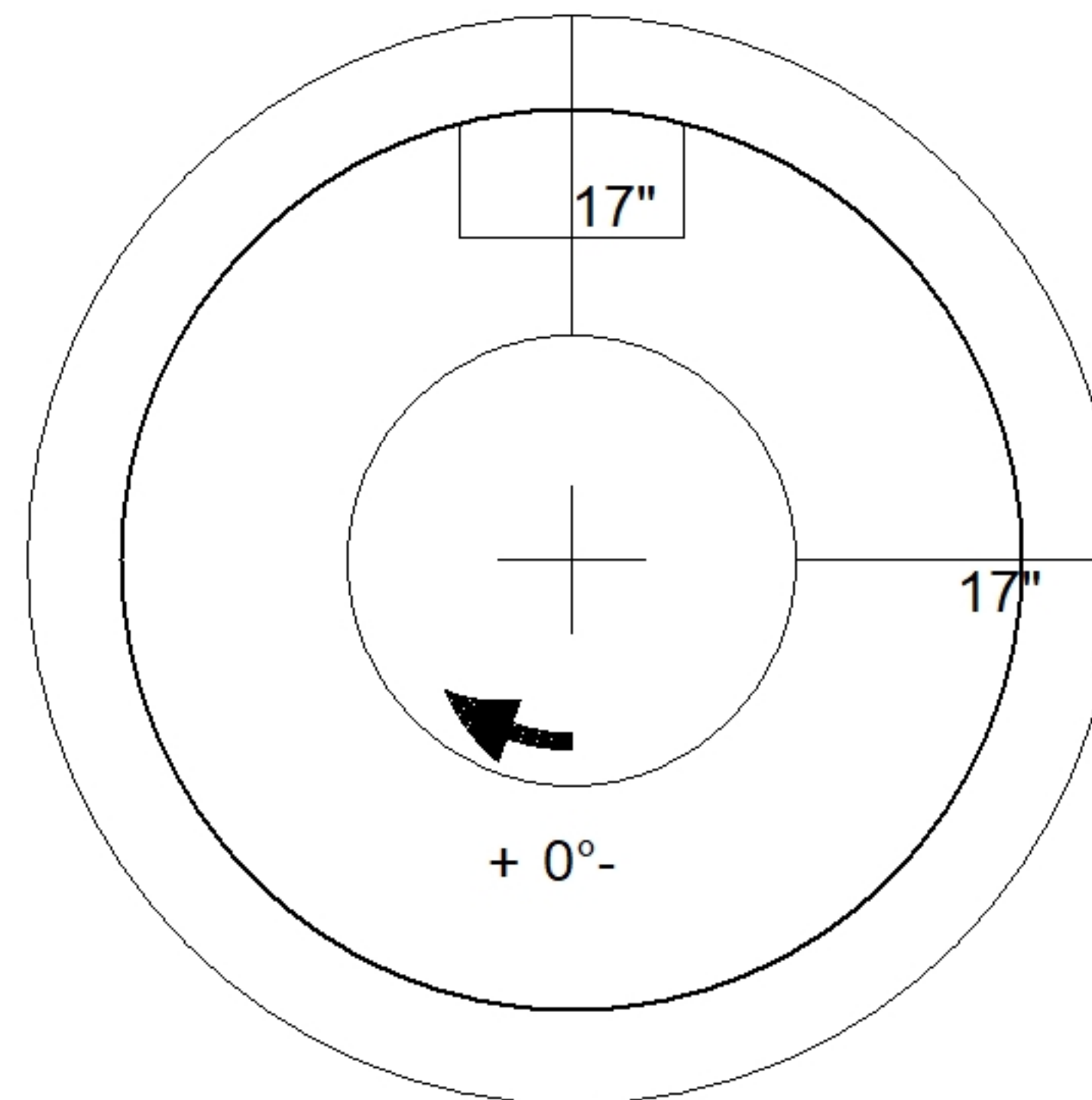
P3 MH048CCN36CDARED

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

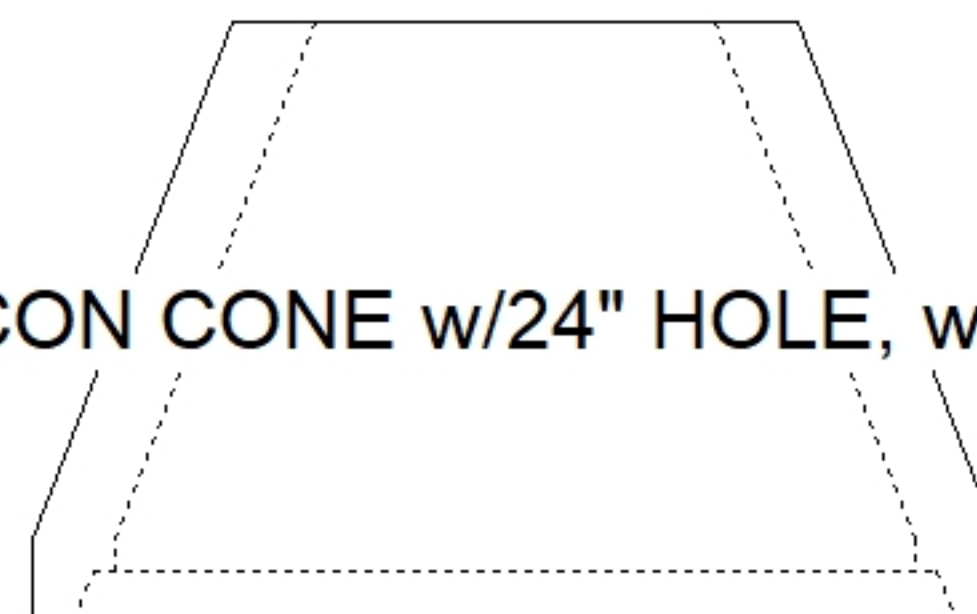
P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 36"	2251 lb
P2) 48" - MH RISER w/ConBlock-CDA Red T/G - 24"	1677 lb
P1) 48" - MH BASE w/ConBlock-CDA Red T/n - 24"	2959 lb
1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT	1440 lb
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) CASTING - JBS 1150 F/C SANITARY	250 lb
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) PSX - 12-08 NYLO	8 lb
7) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	8585 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 (JBS 1150 F/C "SANITARY").

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



48" - CON CONE w/24" HOLE, w/ConBlock-CDA Red F/G - 36" - (P3)



Coating (Int):	Seam Up: Flat	Wall Thickness: 5"	Height (Ext): 36"	Weight (Net): 2251 lb
Coating (Ext):	Seam Dn: Groove			Volume (Net): 0.57cu.yd

Job Name: 23-2792 - Teal Dr. Development
 Job Location: Gallatin, TN
 Contractor: Stewart Richey

Plant: 100
 3/25/2026 1:41:41 PM

Tech: J. Horsley - F
 PC: C. Goff



Structure ID: STM-E3

P1 MH048BA48

MH BASE T/n

- P3) 30" x 30" - CASTING HEIGHT - 6"
- P2) 48" - MH FLAT TOP w/30"x30" Hole F/G - 12"
- P1) 48" - MH BASE T/n - 48"
- 1) CASTING - JBS 3101 Single Set (F/G/H)
- 1) 48" - Conseal CS-102 1.00"
- 1) 30" x 30" - Conseal CS-102 1.00"
- 2) Hole - 22
- 4) MH Step ML-10-TDS-NCR - 10"

0 lb
 1350 lb
 4354 lb
 619 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 6323 lb

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO INVERT CHANNEL.
 4. CASTING BY ICAST (JBS 3101 SINGLE SET (F/G/H))

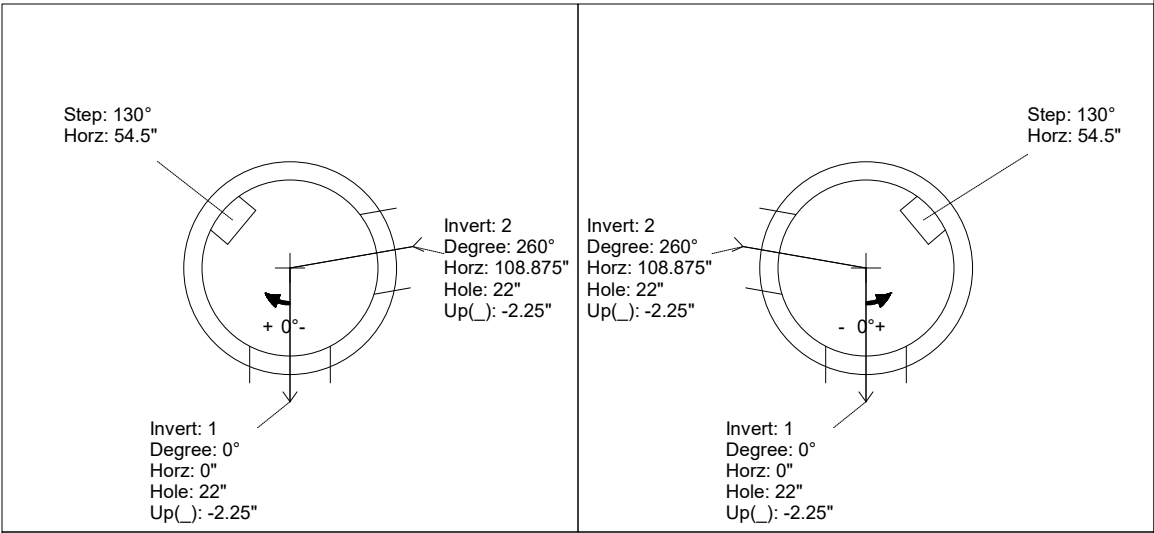
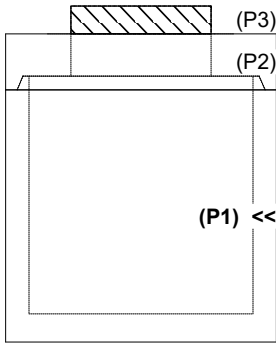
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 473.07' Rim to Invert: 5.55' Slack: 0.6" Sump: 0" Step Position: 130°

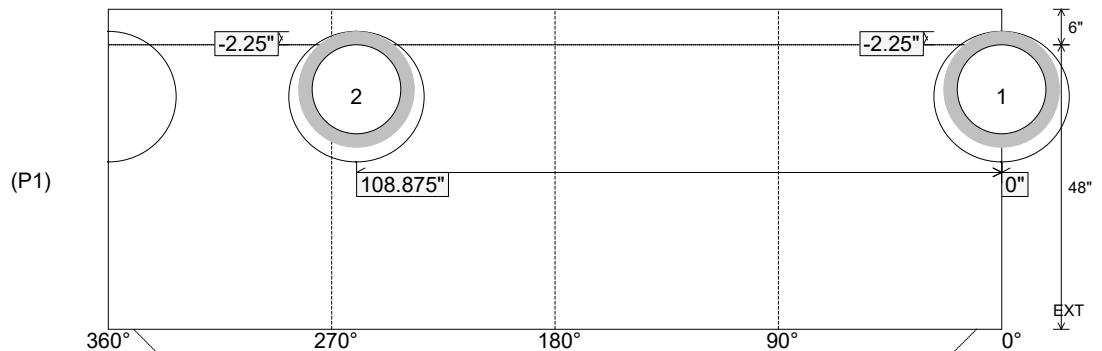
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	467.52'	0°	0"	15" RCP B WALL	19.5"	Hole 22	22"	22.854"	-2.25"	0"
Invert 2	467.52'	260°	131.625"	15" RCP B WALL	19.5"	Hole 22	22"	22.854"	-2.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

Height (Int): 48"
 Height (Ext): 54"

Weight (Net): 4354 lb
 Volume (Net): 1.11cu.yd

Job Name: 23-2792 - Teal Dr. Development
 Job Location: Gallatin, TN
 Contractor: Stewart Richey

Plant: 100
 3/25/2026 1:41:38 PM

Tech: J. Horsley - F
 PC: C. Goff



Structure ID: STM-D3

P1 MH048BAVF

MH BASE Custom Ht F/n

- P3) 30" x 30" - CASTING HEIGHT - 4"
- P2) 48" - MH FLAT TOP w/30"x30" Hole F/F - 7"
- P1) 48" - MH BASE Custom Ht F/n - 37"
- 1) CASTING - JBS 4315 F/G
- 1) 48" - Conseal CS-102 1.00"
- 1) 30" x 30" - Conseal CS-102 1.00"
- 2) Hole - 32
- 3) MH Step ML-10-TDS-NCR - 10"

0 lb
 1264 lb
 3188 lb
 500 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 4952 lb

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO INVERT CHANNEL.
 4. CASTING BY ICAST (JBS 4315 F/G)

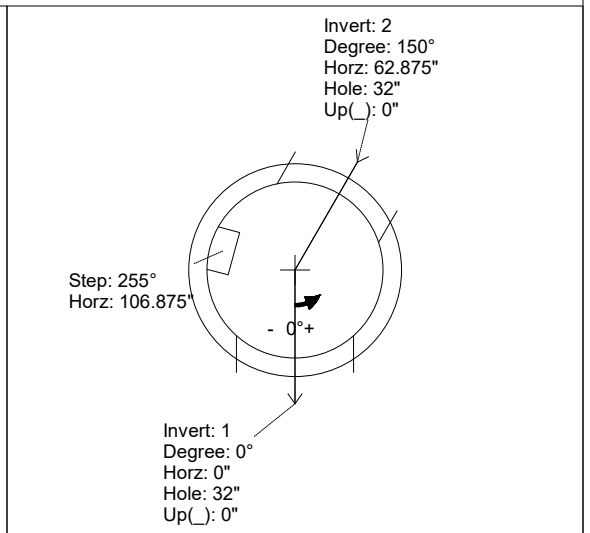
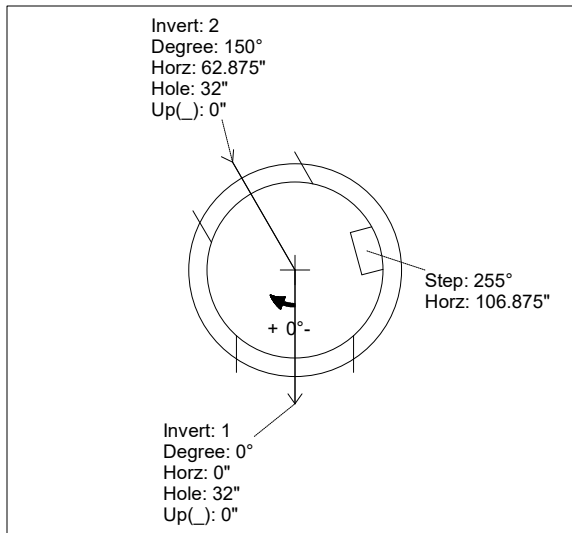
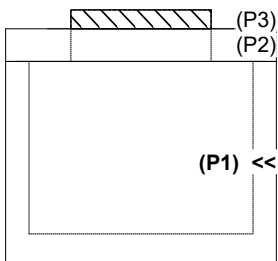
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 470.05' Rim to Invert: 3.77' Slack: 0.24" Sump: 3" Step Position: 255°

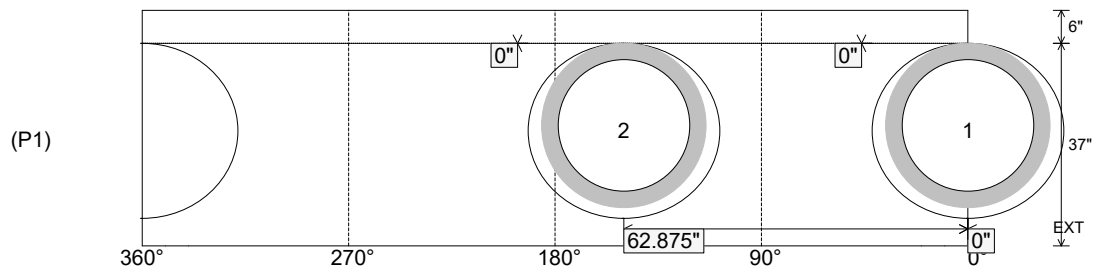
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	466.28'	0°	0"	24" RCP B WALL	30"	Hole 32	32"	35.027"	0"	0"
Invert 2	466.28'	150°	75.875"	24" RCP B WALL	30"	Hole 32	32"	35.027"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

Height (Int): 37"
 Height (Ext): 43"

Weight (Net): 3188 lb
 Volume (Net): 0.81cu.yd

Job Name: 23-2792 - Teal Dr. Development
 Job Location: Gallatin, TN
 Contractor: Stewart Richey

Plant: 100
 3/25/2026 1:42:49 PM

Tech: J. Horsley - F
 PC: C. Goff

Structure ID: STM-D3

P2 MH048LD07S

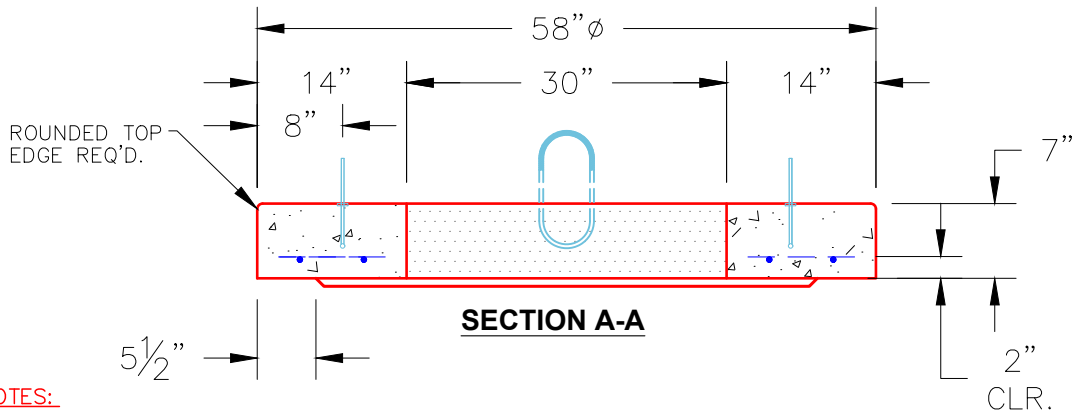
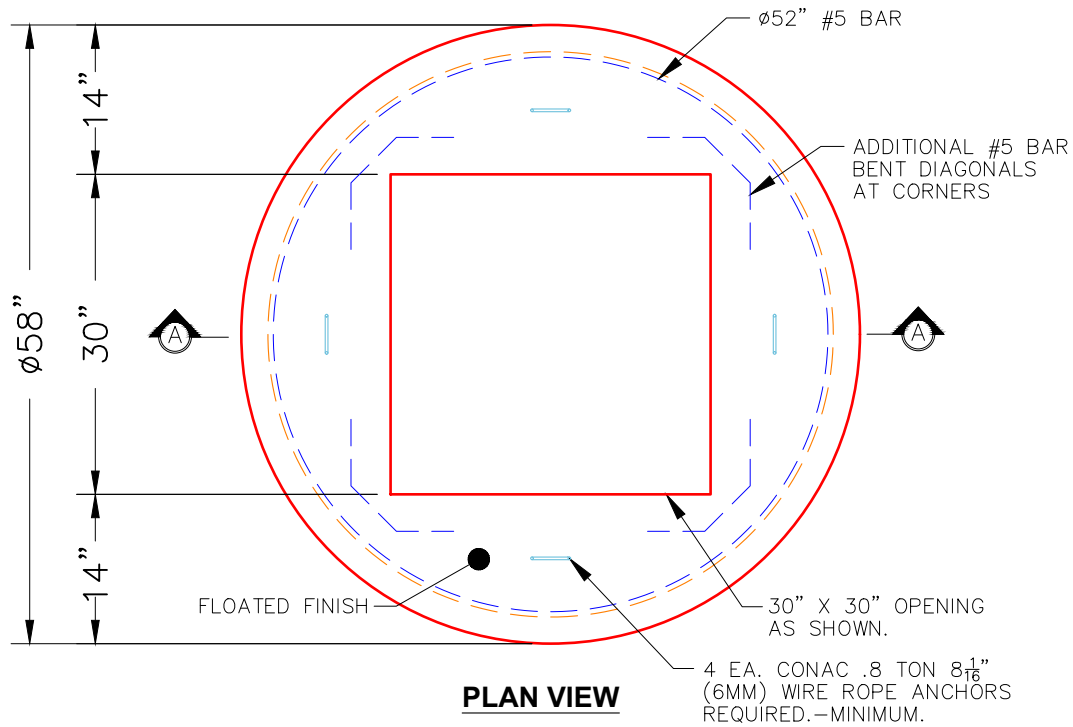
MH FLAT TOP w/30"x30" Hole F/F

- P3) 30" x 30" - CASTING HEIGHT - 4"
- P2) 48" - MH FLAT TOP w/30"x30" Hole F/F - 7"
- P1) 48" - MH BASE Custom Ht F/n - 37"
- 1) CASTING - JBS 4315 F/G
- 1) 48" - Conseal CS-102 1.00"
- 1) 30" x 30" - Conseal CS-102 1.00"
- 2) Hole - 32
- 3) MH Step ML-10-TDS-NCR - 10"

0 lb
 1264 lb
 3188 lb
 500 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 4952 lb

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO INVERT CHANNEL.
 4. CASTING BY ICAST (JBS 4315 F/G)

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



NOTES:

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

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 5"

Height (Ext): 7"

Weight (Net): 1264 lb
 Volume (Net): 0.31cu.yd

Job Name: 23-2792 - Teal Dr. Development
 Job Location: Gallatin, TN
 Contractor: Stewart Richey

Plant: 100
 3/25/2026 1:41:37 PM

Tech: J. Horsley - F
 PC: C. Goff



Structure ID: STM-D2

P1 MH048BAVF

MH BASE Custom Ht F/n

- P3) 24" x 30" - CASTING HEIGHT - 6"
- P2) 48" - MH FLAT TOP SPEC. HT. (6") w/30"x30" Hole F/F - 6"
- P1) 48" - MH BASE Custom Ht F/n - 35"
- 1) CASTING - JBS 3101 Single Set (F/G/H)
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" x 30" - Conseal CS-102 1.00"
- 2) Hole - 32"
- 3) MH Step ML-10-TDS-NCR - 10"

0 lb
 968 lb
 3048 lb
 619 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 4635 lb

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO INVERT CHANNEL.
 4. CASTING BY ICAST (JBS 3101 SINGLE SET (F/G/H))

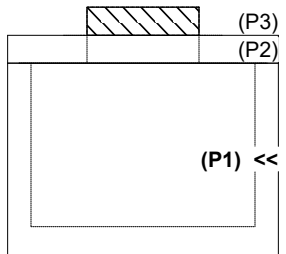
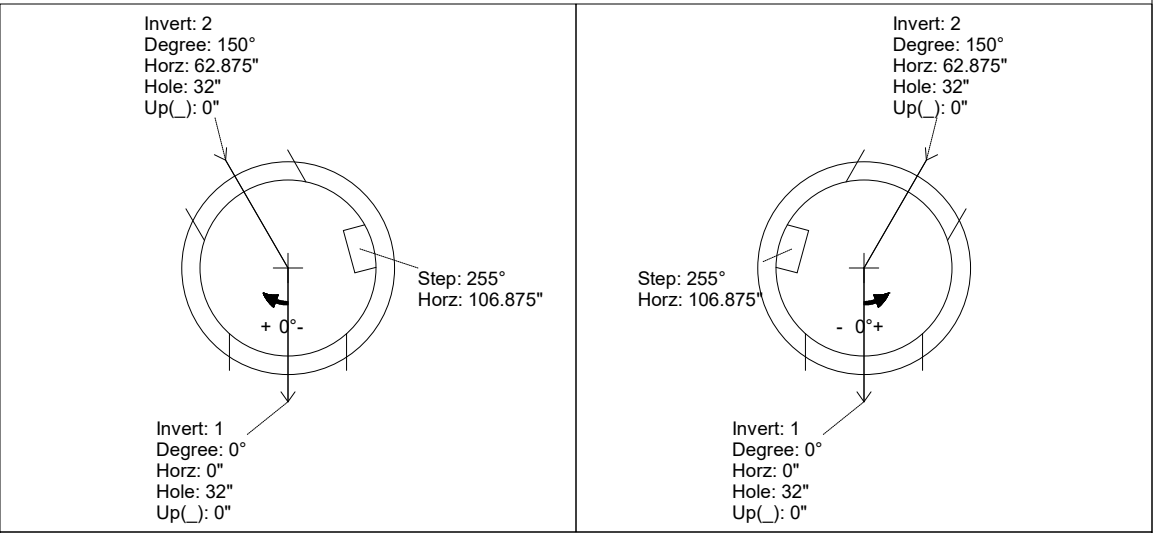
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 469.7' Rim to Invert: 3.74' Slack: 0.88" Sump: 3" Step Position: 255°

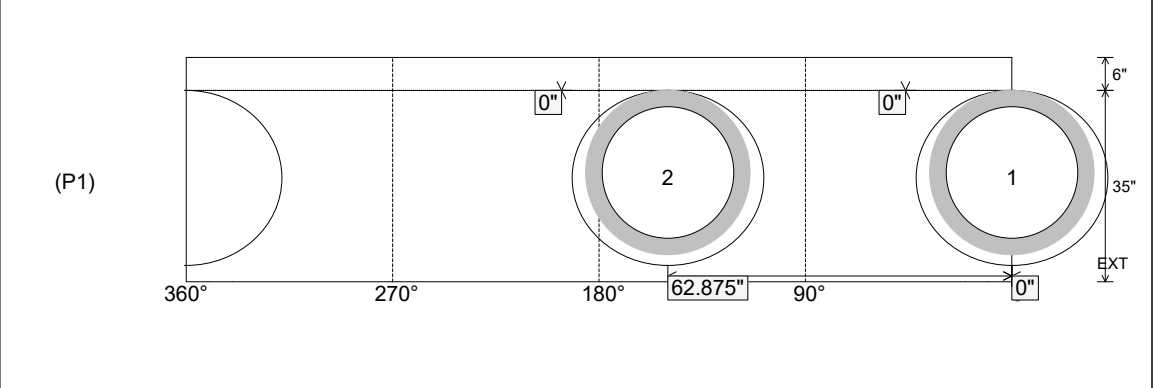
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	465.96'	0°	0"	24" RCP B WALL	30"	Hole 32	32"	35.027"	0"	0"
Invert 2	465.96'	150°	75.875"	24" RCP B WALL	30"	Hole 32	32"	35.027"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 35" Height (Ext): 41"	Weight (Net): 3048 lb Volume (Net): 0.78cu.yd
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Job Name: 23-2792 - Teal Dr. Development
 Job Location: Gallatin, TN
 Contractor: Stewart Richey

Plant: 100
 3/25/2026 1:42:49 PM

Tech: J. Horsley - F
 PC: C. Goff

Structure ID: STM-D2

P2 MH048LD06SP

MH FLAT TOP SPEC. HT. (6") w/30"x30" Hole F/F

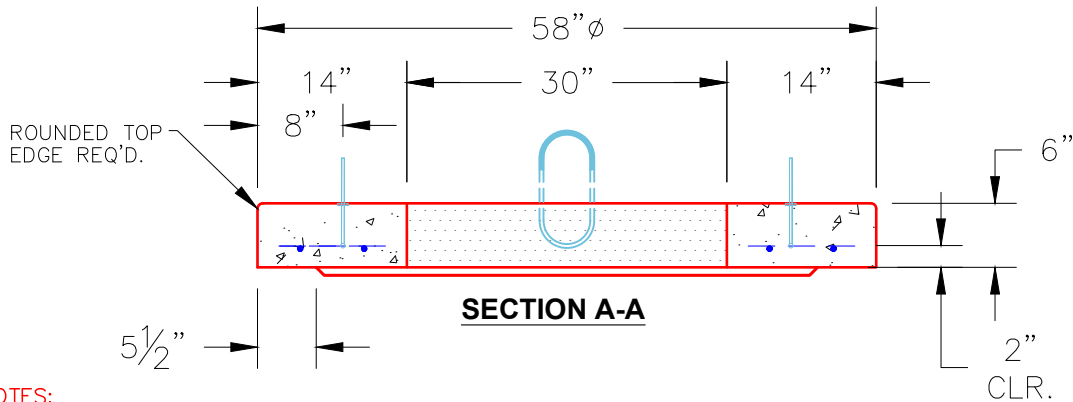
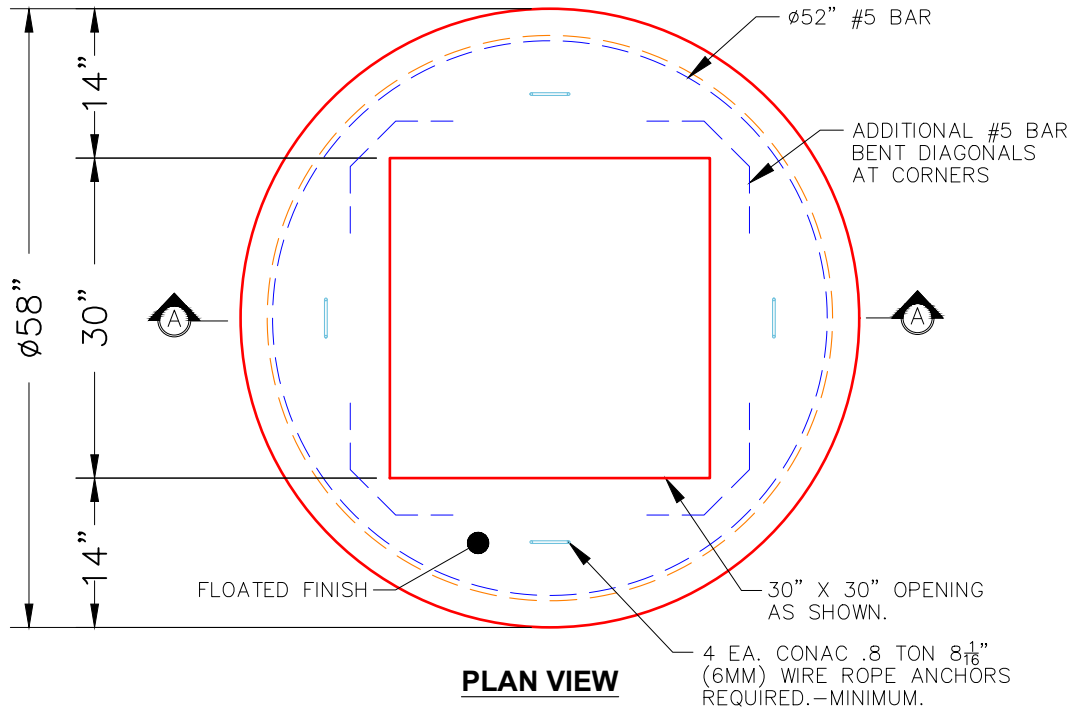
- P3) 24" x 30" - CASTING HEIGHT - 6"
- P2) 48" - MH FLAT TOP SPEC. HT. (6") w/30"x30" Hole F/F - 6"
- P1) 48" - MH BASE Custom Ht F/n - 35"
- 1) CASTING - JBS 3101 Single Set (F/G/H)
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" x 30" - Conseal CS-102 1.00"
- 2) Hole - 32
- 3) MH Step ML-10-TDS-NCR - 10"

0 lb
 968 lb
 3048 lb
 619 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 4635 lb

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO INVERT CHANNEL.
 4. CASTING BY ICAST (JBS 3101 SINGLE SET (F/G/H))

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



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

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 5"	Height (Ext): 6"	Weight (Net): 968 lb Volume (Net): 0.25cu.yd
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Structure ID: MH 6 (0+31)

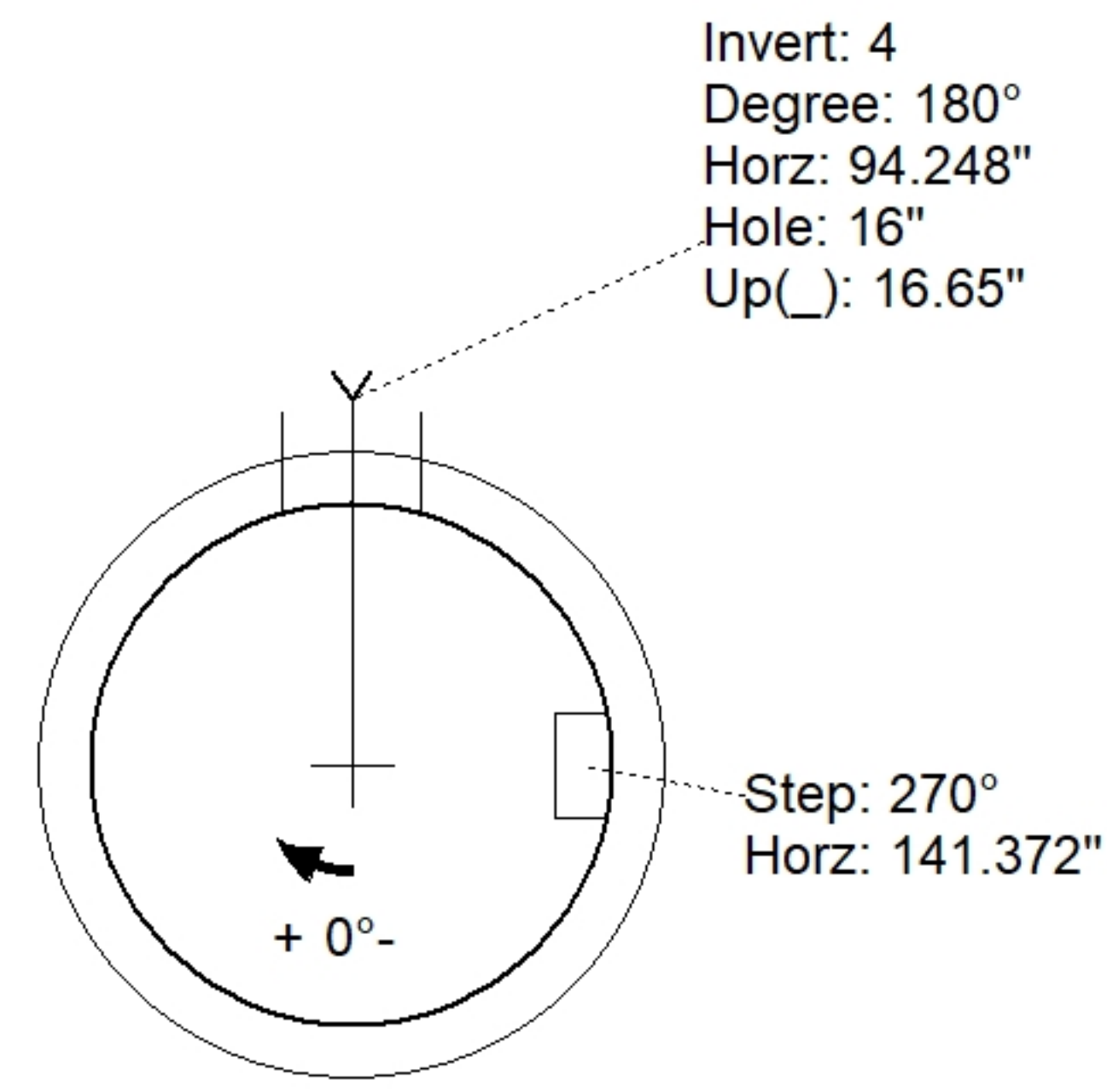
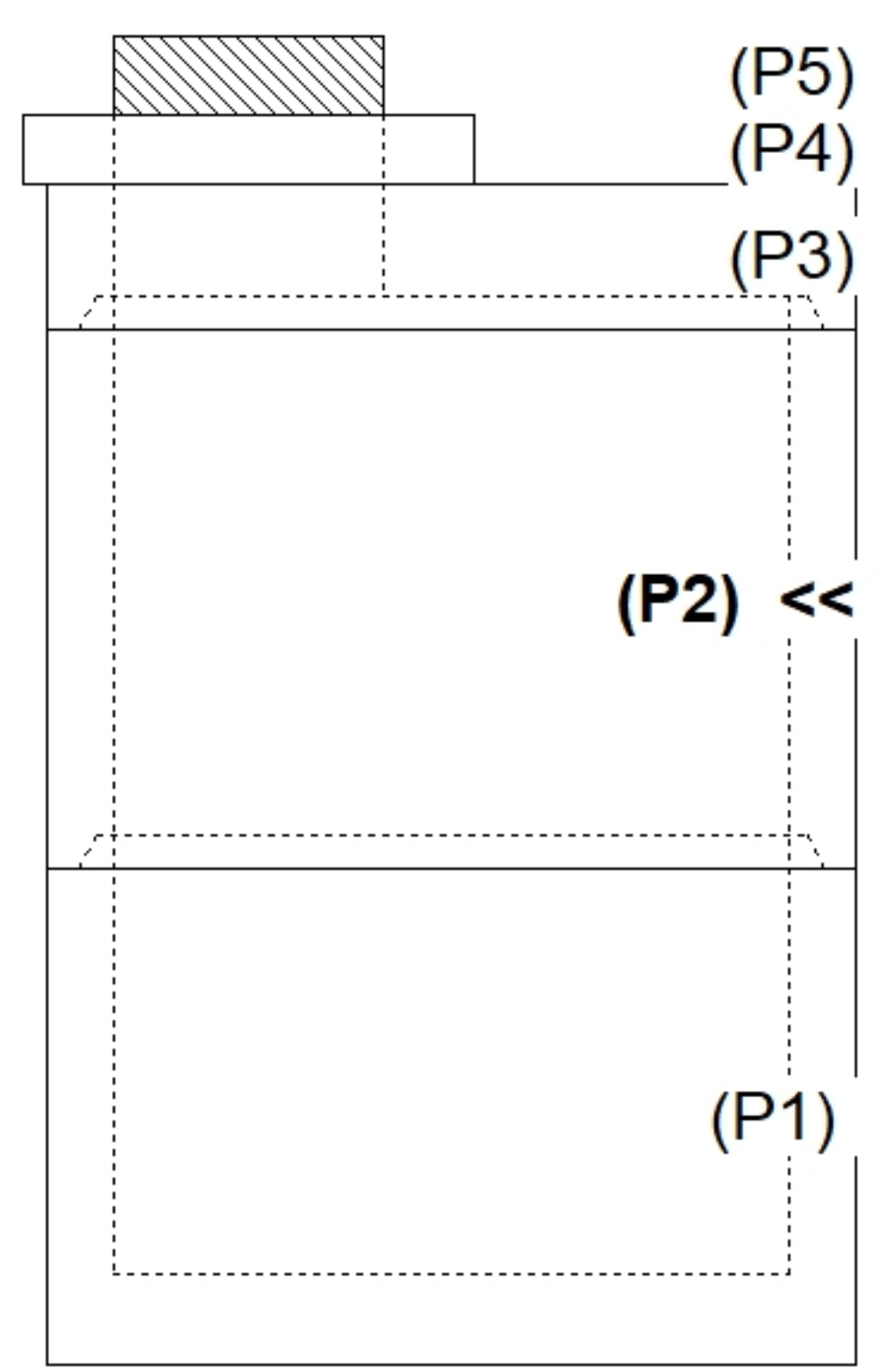
P2 MH060RS48 MH RISER T/G

P5) 24" - CASTING HEIGHT - 7" P4) 24" - GRADE RING F/F - 6" P3) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13" P2) 60" - MH RISER T/G - 48" P1) 60" - MH BASE T/n - 36" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 60" - STORM INVERT CHANNEL - 1/4 HEIGHT 1) Chimney Seal - Trelleborg FlexRib Chimney Seal 1) CASTING - HOE WT-420-MSD F/C Storm 2) 60" - Conseal CS-102 1.00" (Double) 2) PSX - 16L NYLO 3) PSX - 12-06 NYLO	0 lb 405 lb 2869 lb 4909 lb 6217 lb 0 lb 0 lb 1700 lb 10 lb 340 lb 0 lb 16 lb 24 lb ----- Structure Total: 16490 lb	Structure Notes: 1. PER ASTM C478 & MSD SPECIFICATIONS. 2. CONCRETE = 5,000 PSI AT 28 DAYS. 3. CASTING BY ICST (HOE MC-420). REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BAR AT 6" C.C.E.W. - RISER/WALLS (As .12). - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.
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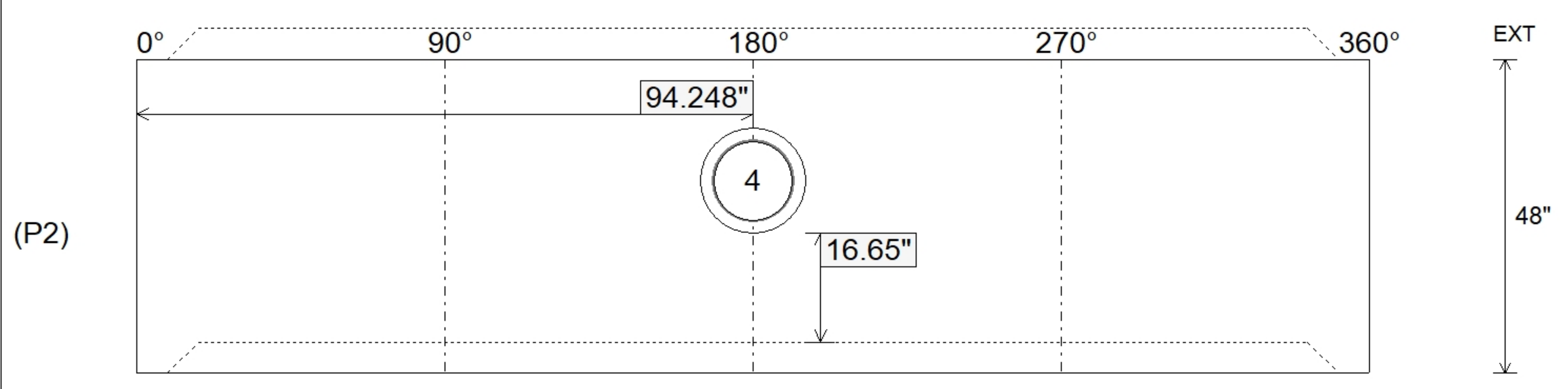
Rim: 414.13' Rim to Invert: 8.92' Slack: 0.04" Sump: 3" Step Position: 270

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4	409.91'	180°	113.097"	12" PVC SDR35	12.5"	PSX 16L NYLO	16"	16.196"	16.65"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 6" Floor Height: 0"	Height (Int): 48" Height (Ext): 48"	Weight (Net): 4909 lb Volume (Net): 1.25cu.yd
----------------	------------------------------------	--	--	--

Job Name: 23-2792 - Teal Dr. Development
 Job Location: Gallatin, TN
 Contractor: Stewart Richey

Plant: 100
 3/25/2026 1:42:48 PM

Tech: J. Horsley - F
 PC: C. Goff

Structure ID: STM-C4

P2 MH060LD13-30SQ

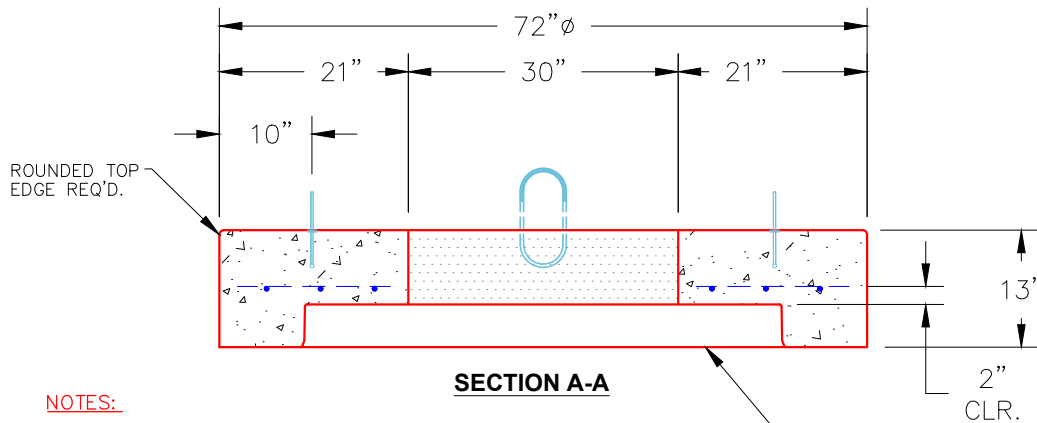
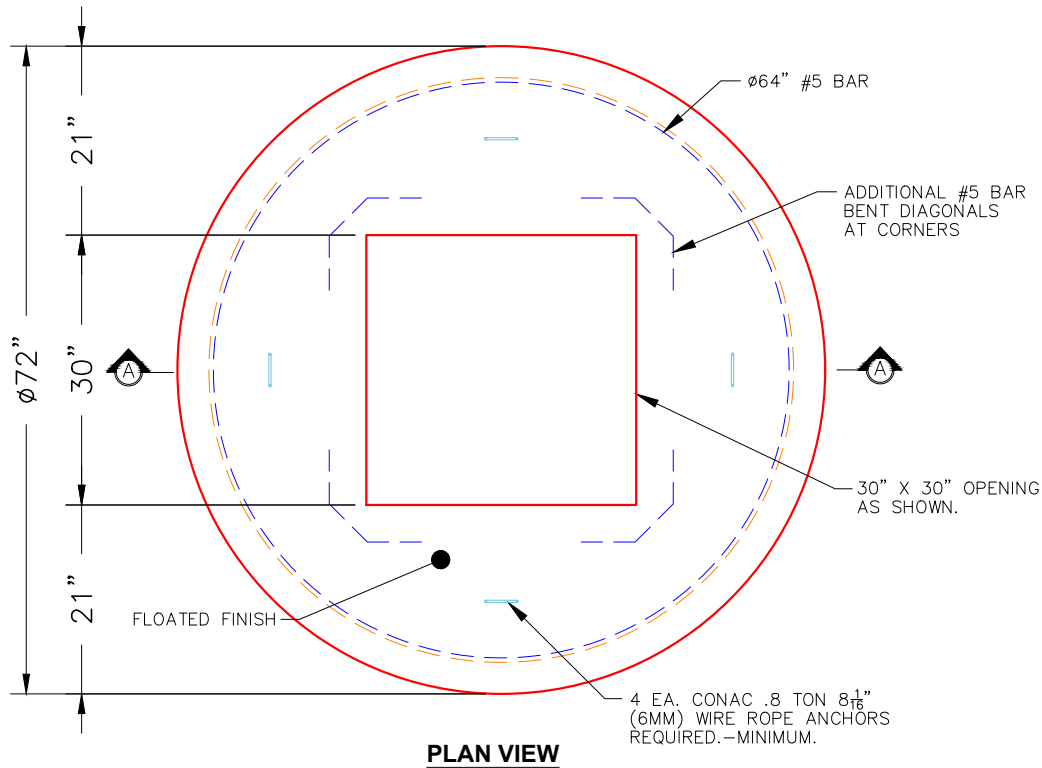
MH FLAT TOP w/30"x30" Hole F/G

- P3) 30" x 30" - CASTING HEIGHT - 6"
- P2) 60" - MH FLAT TOP w/30"x30" Hole F/G - 13"
- P1) 60" - MH BASE T/n - 66"
- 1) CASTING - JBS 3101 Single Set (F/G/H)
- 1) 60" - Conseal CS-102 1.00"
- 1) 30" x 30" - Conseal CS-102 1.00"
- 2) Hole - 40
- 1) Hole - 22
- 5) MH Step ML-10-TDS-NCR - 10"

	0 lb
	2400 lb
	8065 lb
	619 lb
	0 lb
	0 lb
	0 lb
	0 lb
	0 lb
	0 lb
Structure Total:	11083 lb

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO INVERT CHANNEL.
 4. CASTING BY ICAST (JBS 3101 SINGLE SET (F/G/H))

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



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

STANDARD SINGLE OFFSET
 GROOVE JOINT REQUIRED

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 6"	Height (Ext): 13"	Weight (Net): 2400 lb Volume (Net): 0.61cu.yd
----------------------------------	----------------------------------	--------------------	-------------------	--

Job Name: 23-2792 - Teal Dr. Development
 Job Location: Gallatin, TN
 Contractor: Stewart Richey

Plant: 100
 3/25/2026 1:41:34 PM

Tech: J. Horsley - F
 PC: C. Goff



Structure ID: STM-C4

P1 MH060BA66

MH BASE T/n

- P3) 30" x 30" - CASTING HEIGHT - 6"
- P2) 60" - MH FLAT TOP w/30"x30" Hole F/G - 13"
- P1) 60" - MH BASE T/n - 66"
- 1) CASTING - JBS 3101 Single Set (F/G/H)
- 1) 60" - Conseal CS-102 1.00"
- 1) 30" x 30" - Conseal CS-102 1.00"
- 2) Hole - 40
- 1) Hole - 22
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 2400 lb
 8065 lb
 619 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 11083 lb

- Structure Notes:**
1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO INVERT CHANNEL.
 4. CASTING BY ICAST (JBS 3101 SINGLE SET (F/G/H))

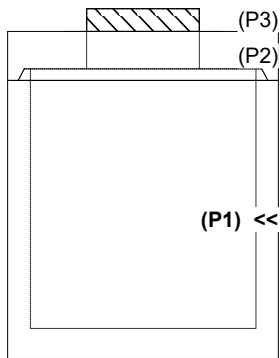
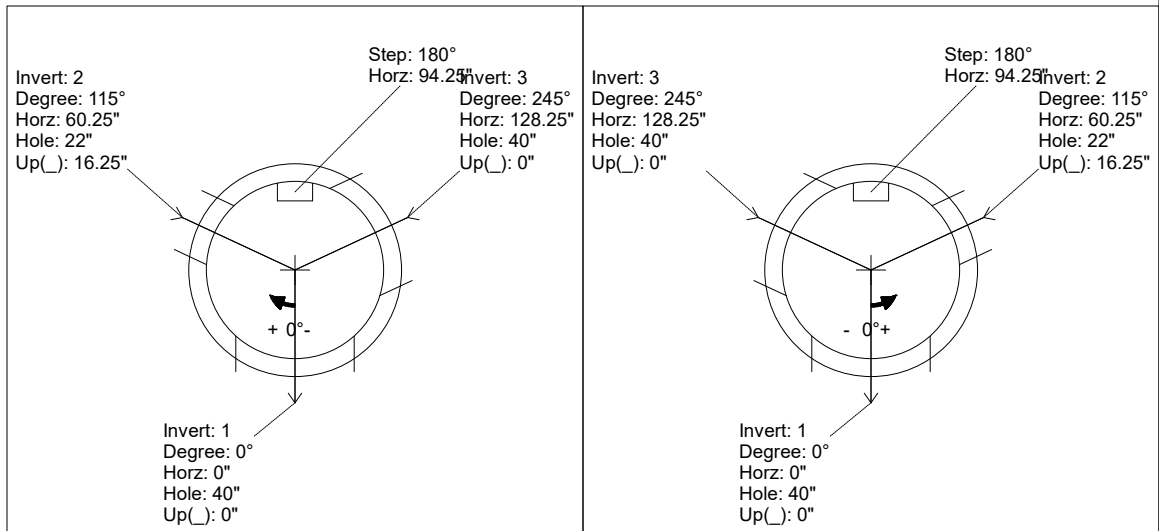
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .18)
 - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

Rim: 471.79' Rim to Invert: 6.84' Slack: 0.58" Sump: 3.5" Step Position: 180°

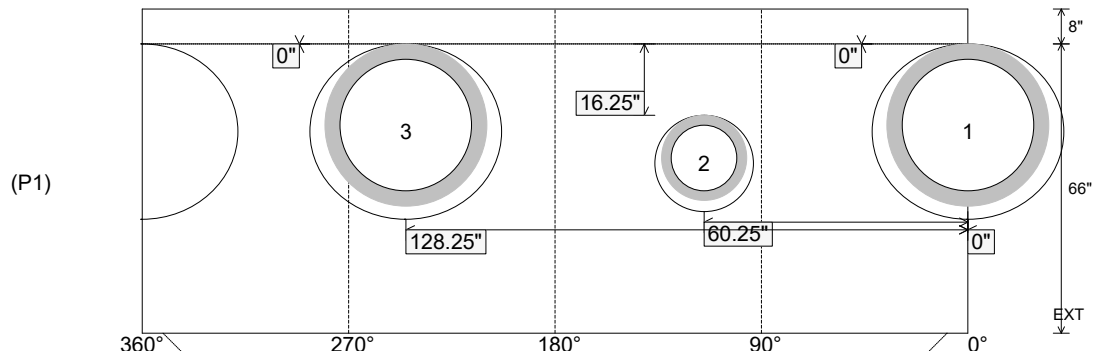
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	464.95'	0°	0"	30" RCP B WALL	37"	Hole 40	40"	43.784"	0"	0"
Invert 2	466.2'	115°	72.25"	15" RCP B WALL	19.5"	Hole 22	22"	22.525"	16.25"	0"
Invert 3	464.95'	245°	154"	30" RCP B WALL	37"	Hole 40	40"	43.784"	0"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 6"
 Floor Height: 8"

Height (Int): 66"
 Height (Ext): 74"

Weight (Net): 8065 lb
 Volume (Net): 2.06cu.yd

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

Plant: 100

Tech: J. Horsley - A

3/26/2026 2:14:43 PM

PC: Celina Goff



Structure ID: 2301544

P2 MH060R60

MH RISER w/DROP T/G

- P6) 24" - CASTING HEIGHT - 7"
- P5) 48" - CON CONE w/24" HOLE F/G - 24"
- P4) 48" - MH RISER T/G - 72"
- P3) 60" - MH Transition Slab 48" Hole T/G - 15"
- P2) 60" - MH RISER w/DROP T/G - 60"
- P1) 60" - MH BASE (12" F) w/DROP Custom Ht T/n - 72"
- 1) 60" - MH INVERT CHANNEL - FULL HEIGHT
- 1) SECONDARY POUR - Add Exterior Drop to Base (P1)
- 1) SECONDARY POUR - Add Exterior Drop to Riser (P2)
- 2) 60" - Conseal CS-102 1.00" (Double)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 1) Drop Tee - 8" PVC
- 1) Drop Elbow - 8" PVC
- 19) MH Step ML-10-TDS-NCR - 10"

0 lb
 2252 lb
 5030 lb
 2204 lb
 6235 lb
 13845 lb
 2692 lb
 3612 lb
 2580 lb
 0 lb
 0 lb
 2 lb
 0 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 38452 lb

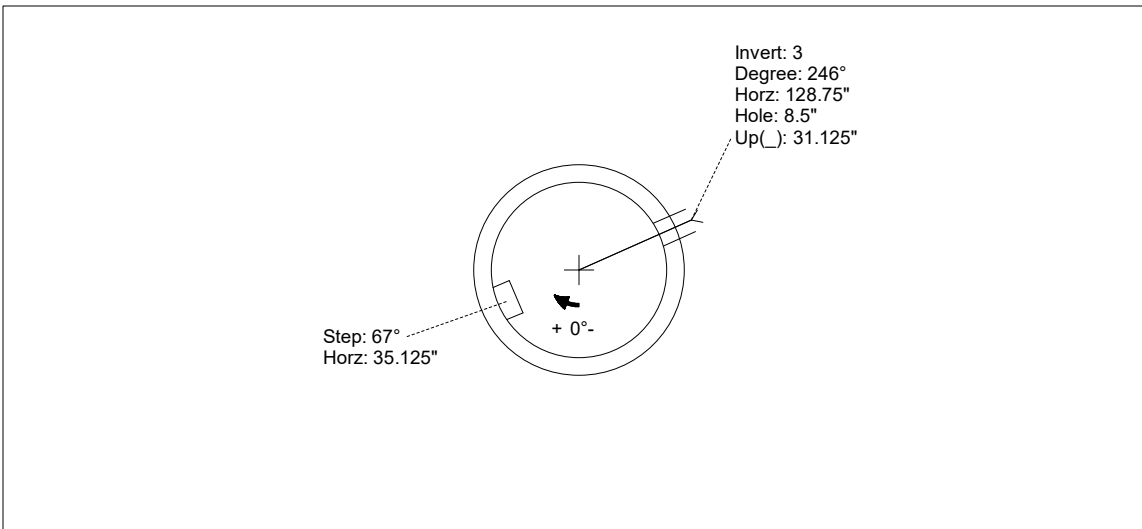
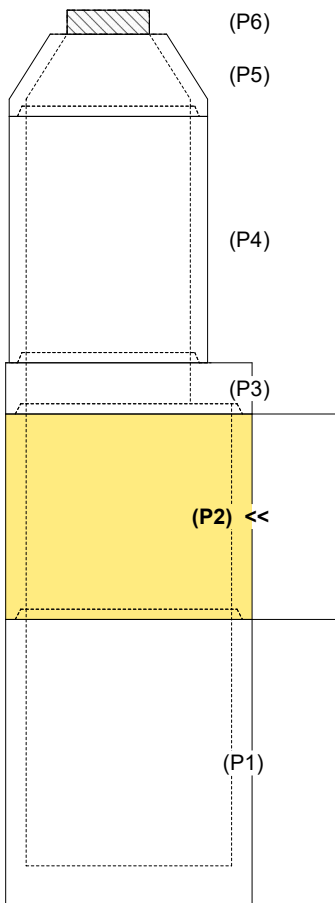
- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. STEPS AT 67 DEGREES
 5. 7" CASTING SUPPLIED BY OTHERS
 6. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST

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

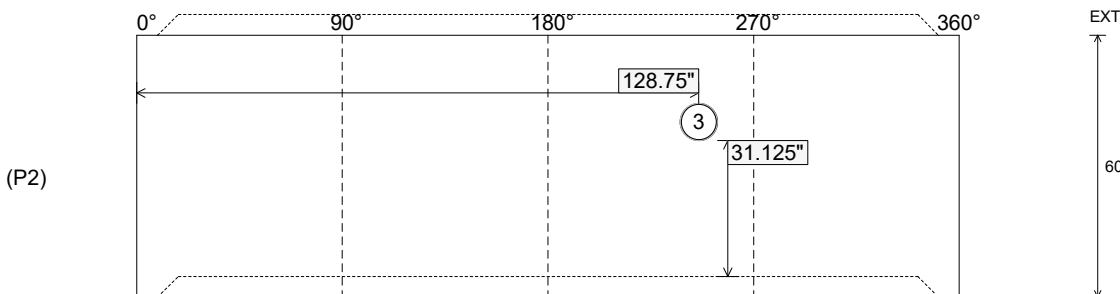
Rim: 755.04' Rim to Invert: 20.75' Slack: 2" Sump: 3" Step Position: 67°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1										
Invert 2										
Invert 3	743.05'	246°	154.625"	8" PVC SDR35	8.5"	Drop Tee 8" PVC	8.5"	8.529"	31.125"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: Groove

Wall Thickness: 6"
 Floor Height: 0"

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

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

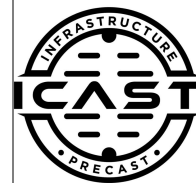
Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements
 Job Location: Fort Mitchell, KY 41017
 Contractor: Lykins Contracting

Plant: 100

Tech: J. Horsley - A

3/26/2026 2:14:43 PM

PC: Celina Goff



Structure ID: 2301544

P2 MH060R60

MH RISER w/DROP T/G

- P6) 24" - CASTING HEIGHT - 7"
- P5) 48" - CON CONE w/24" HOLE F/G - 24"
- P4) 48" - MH RISER T/G - 72"
- P3) 60" - MH Transition Slab 48" Hole T/G - 15"
- P2) 60" - MH RISER w/DROP T/G - 60"
- P1) 60" - MH BASE (12"F) w/DROP Custom Ht T/n - 72"
- 1) 60" - MH INVERT CHANNEL - FULL HEIGHT
- 1) SECONDARY POUR - Add Exterior Drop to Base (P1)
- 1) SECONDARY POUR - Add Exterior Drop to Riser (P2)
- 2) 60" - Conseal CS-102 1.00" (Double)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 1) Drop Tee - 8" PVC
- 1) Drop Elbow - 8" PVC
- 19) MH Step ML-10-TDS-NCR - 10"

0 lb
 2252 lb
 5030 lb
 2204 lb
 6235 lb
 13845 lb
 2692 lb
 3612 lb
 2580 lb
 0 lb
 0 lb
 2 lb
 0 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 38452 lb

Structure Notes:

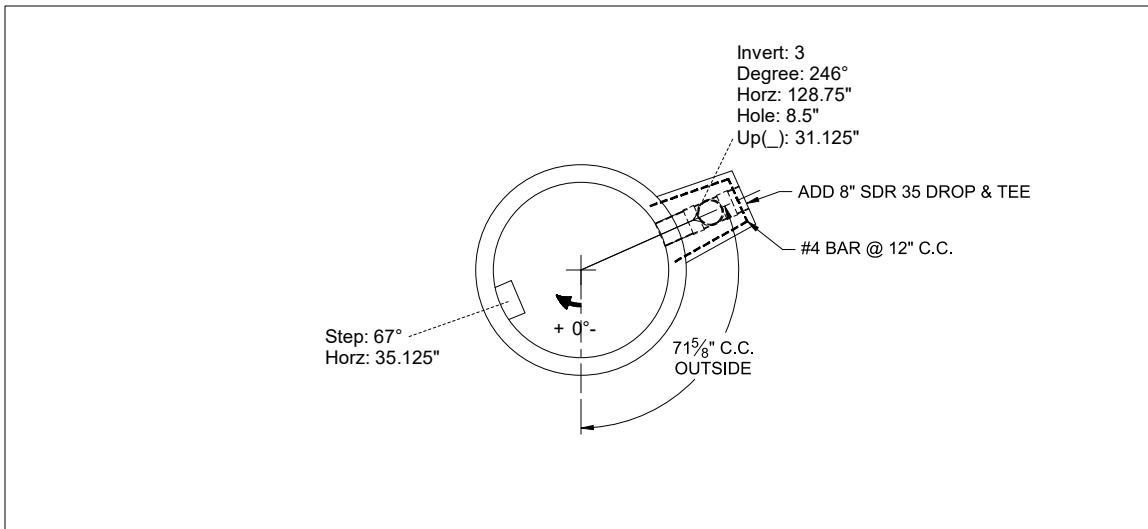
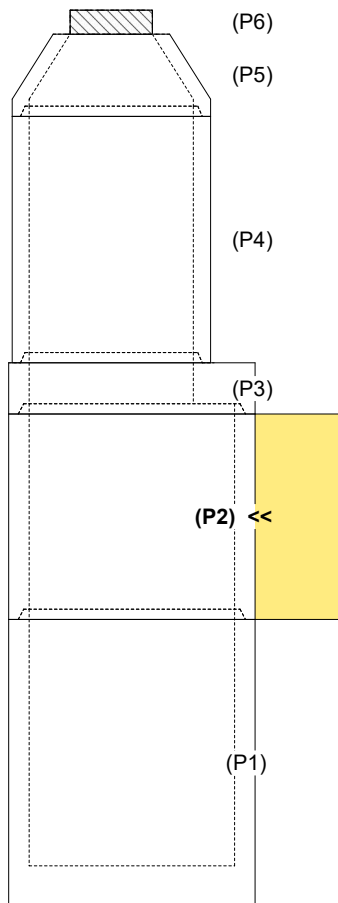
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. EXTERIOR DROP REINFORCEMENT: DRILL & STUB #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. STEPS AT 67 DEGREES
5. 7" CASTING SUPPLIED BY OTHERS
6. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST
7. ADD 8" SDR 35 DROP & TEE AT INVERT 3 (246°)

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

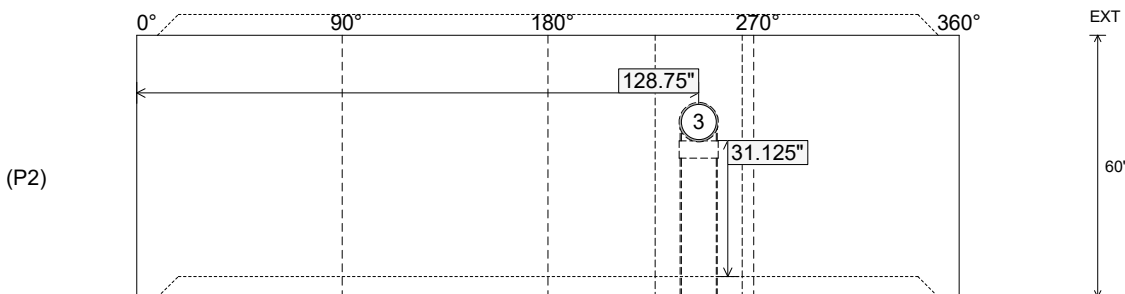
Rim: 755.04' Rim to Invert: 20.75' Slack: 2" Sump: 3" Step Position: 67°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1										
Invert 2										
Invert 3	743.05'	246°	154.625"	8" PVC SDR35	8.5"	Drop Tee 8" PVC	8.5"	8.529"	31.125"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: Groove

Wall Thickness: 6"
 Floor Height: 0"

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

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

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

Plant: 100

Tech: J. Horsley - A

3/27/2026 11:39:46 AM

PC: Celina Goff



Structure ID: 2301540

P3 MH060TS15-48ECC

MH Transition Slab 48" Hole T/G

- P7) 24" - CASTING HEIGHT - 7"
- P6) 24" - GRADE RING F/F - 6"
- P5) 48" - CON CONE w/24" HOLE F/G - 24"
- P4) 48" - MH RISER T/G - 48"
- P3) 60" - MH Transition Slab 48" Hole T/G - 15"
- P2) 60" - MH RISER w/DROP T/G - 60"
- P1) 60" - MH BASE (10°F) w/DROP Custom Ht T/n - 60"
- 1) 60" - MH INVERT CHANNEL - FULL HEIGHT
- 1) SECONDARY POUR - Add Exterior Drop to Base (P1)
- 1) SECONDARY POUR - Add Exterior Drop to Riser (P2)
- 1) CASTING - HOE MC-375-WT F/C Sanitary
- 2) 60" - Conseal CS-102 1.00" (Double)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 1) Drop Tee - 8" PVC
- 1) Drop Elbow - 8" PVC
- 16) MH Step ML-10-TDS-NCR - 10"

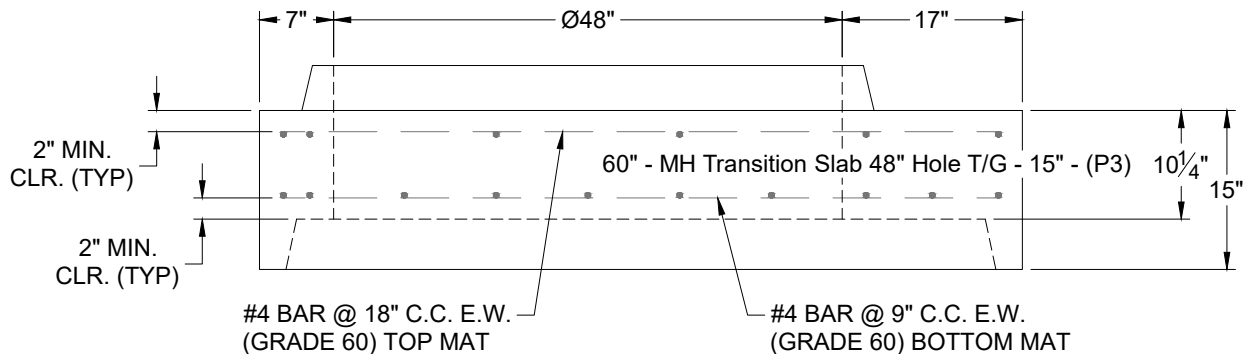
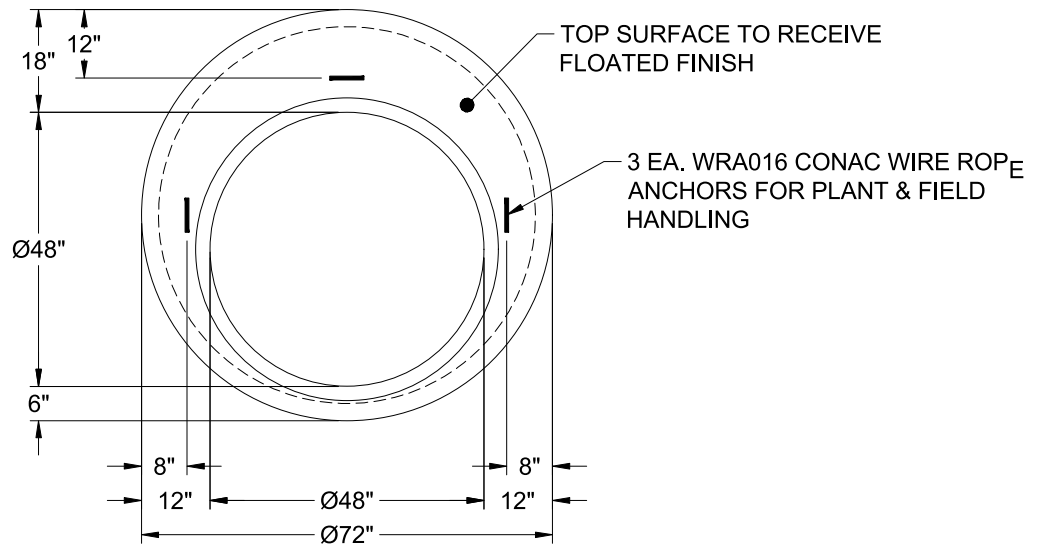
0 lb
405 lb
2252 lb
3353 lb
2204 lb
6235 lb
11306 lb
2692 lb
3010 lb
2580 lb
271 lb
0 lb
0 lb
2 lb
0 lb
0 lb
0 lb
0 lb
0 lb

34310 lb

Structure Total: 34310 lb

Structure Notes:

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



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 15"

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

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

Plant: 100
 5/12/2026 11:30:24 AM

Tech: Jared - F
 PC: A. Chambers



Structure ID: 203-24 MHJ

P1 MH072BAVF

MH BASE Custom Ht F/n

- P3) 36" x 48" - CASTING HEIGHT - 4"
- P2) 72" - MH FLAT TOP w/36"x48" Hole F/F - 10"
- P1) 72" - MH BASE Custom Ht F/n - 68"
- 1) CASTING - HOE 518 DOUBLE F/G
- 1) 72" - Conseal CS-102 1.00"
- 1) 36" x 48" - Conseal CS-102 1.00"
- 2) Hole - 44
- 3) Hole - 8
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 3424 lb
 11576 lb
 331 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 15332 lb

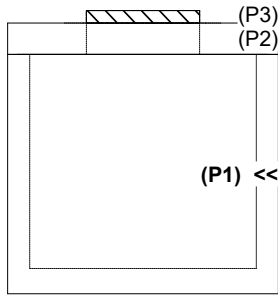
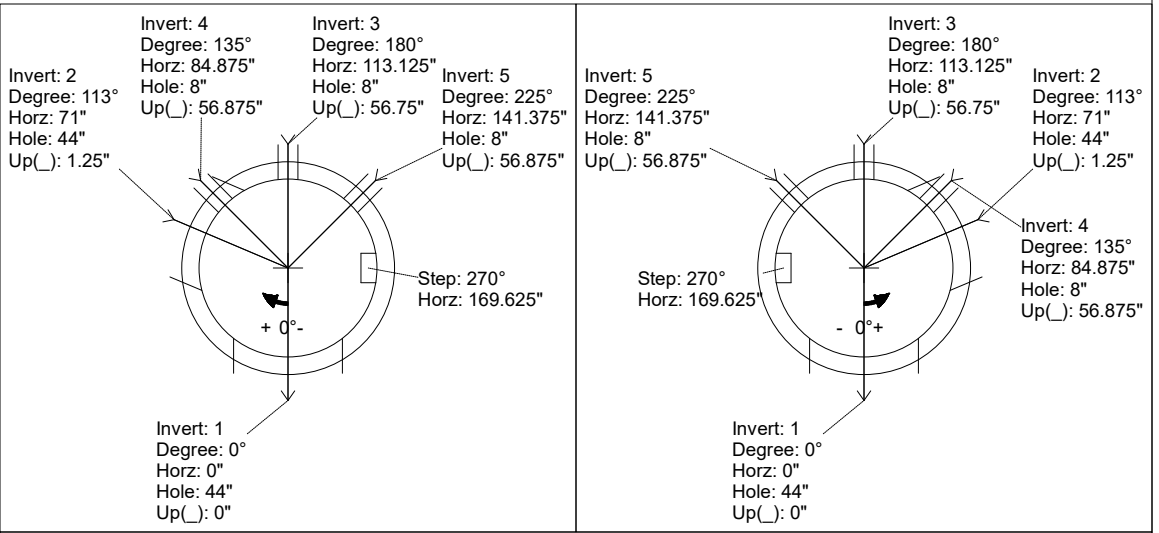
Structure Notes:
 1. INDOT MH TYPE J / ASTM C478 SPEC'S.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO STEPS AND NO INVERT CHANNEL.
 4. CASTING BY ICAST (HOE 518 DOUBLE F/G).
 REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .18)
 - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

Rim: 382.43' Rim to Invert: 6.63' Slack: 0.435" Sump: 2.875" Step Position: 270

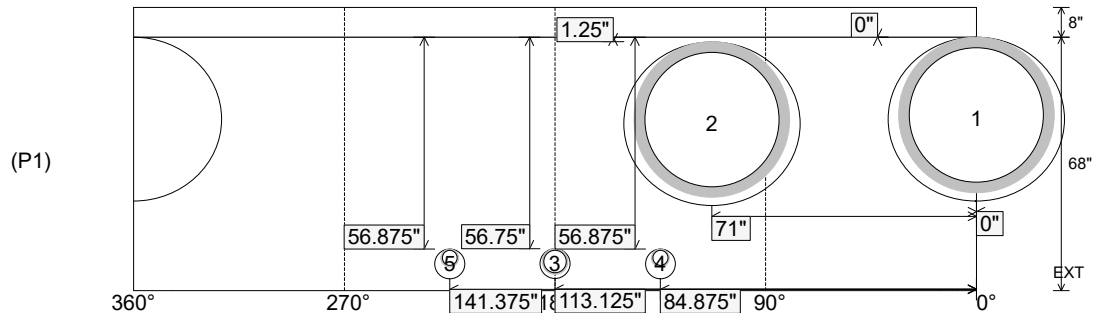
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	375.8'	0°	0"	36" HDPE	41.7"	Hole 44	44"	47.337"	0"	0"
Invert 2	375.9'	113°	84.75"	36" HDPE	41.7"	Hole 44	44"	47.337", 15.629"	1.25"	0"
Invert 3	380.33'	180°	135.125"	6" HDPE (perf pipe)	6.9"	Hole 8	8"	8.017"	56.75"	0"
Invert 4	380.33'	135°	101.375"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8.017", 5.657"	56.875"	0"
Invert 5	380.33'	225°	168.875"	4" HDPE (perf pipe)	4.8"	Hole 8	8"	8.017", 5.657"	56.875"	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: 7"
 Floor Height: 8"

Height (Int): 68"
 Height (Ext): 76"

Weight (Net): 11576 lb
 Volume (Net): 2.96cu.yd

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

Plant: 100
 5/12/2026 11:30:55 AM

Tech: Jared - F
 PC: A. Chambers



Structure ID: 106-16 MHK

P2 MH072LD15-24ECC

MH FLAT LID w/24in ECC Hole F/G

- P3) 24" - CASTING HEIGHT - 1"
- P2) 72" - MH FLAT LID w/24in ECC Hole F/G - 15"
- P1) 72" - MH BASE Custom Ht T/n - 67"
- 1) EJ 6489 GRATE
- 1) 72" - Conseal CS-102 1.00"
- 2) Hole - 50
- 5) MH Step ML-10-TDS-NCR - 10"

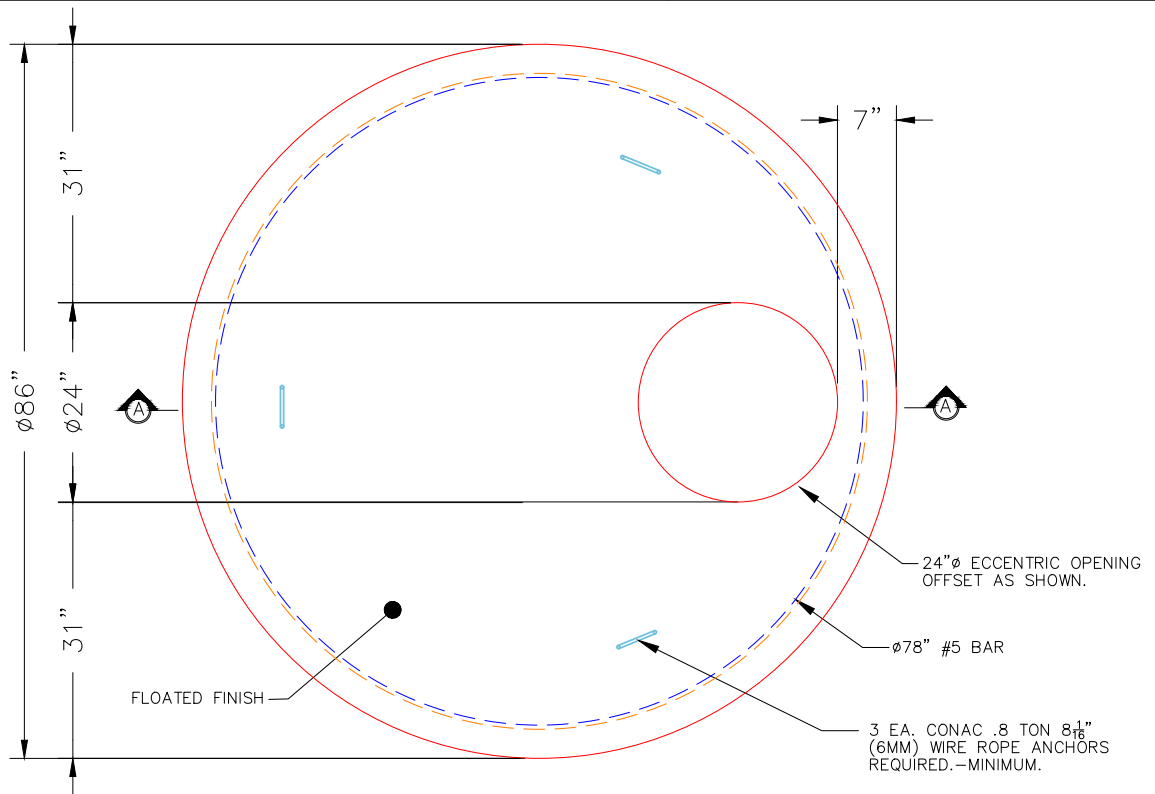
0 lb
 5098 lb
 11161 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb

Structure Total: 16259 lb

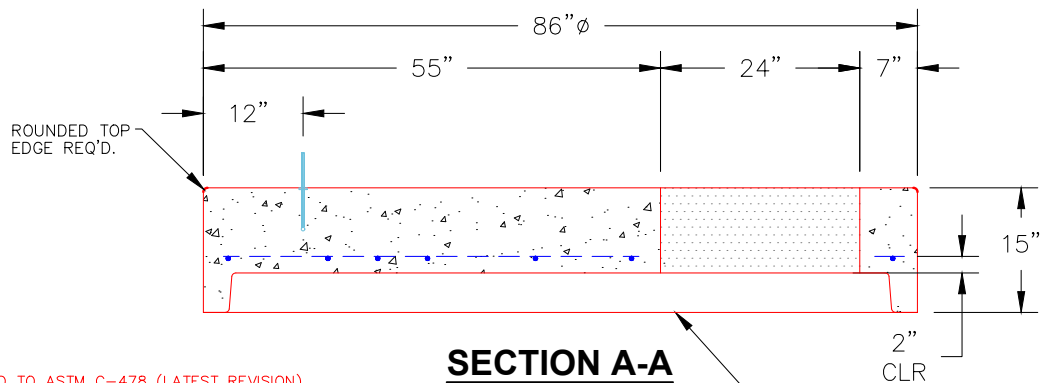
Structure Notes:

1. INDOT MH TYPE K / ASTM C478 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. CASTING BY ICAST (EJ 6489 GRATE).

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: 7"

Height (Ext): 15"

Weight (Net): 5098 lb
 Volume (Net): 1.3cu.yd

Job Name: 25-4299 - Seneca High School	Plant: 100	Tech: J. Horsley	
Job Location: Louisville, KY	2/13/2026 10:05:06 AM	PC: J. Jarvis	
Contractor: Dan Cristiani Excavating Co. Inc.			

Structure ID: A30

P1 BX1818-06BA18

BOX BASE 6inW, 6inF F/n

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

0 lb
1222 lb
0 lb
0 lb

Structure Total: 1222 lb

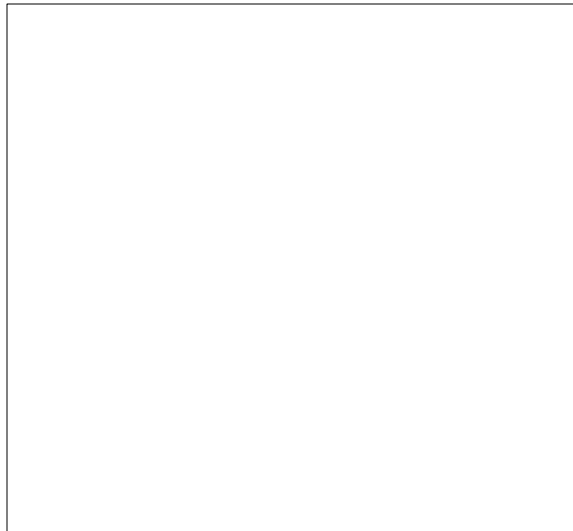
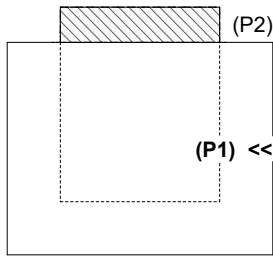
- Structure Notes:
1. PER LOUISVILLE MSD / ASTM C-913 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 4. NO STORM INVERT
 5. NO STEPS
 6. HOE 165-A FRAME & GRATE SUPPLIED BY OTHERS

Rim: 486.9' Rim to Invert: 1.9' Slack: 0.8" Sump: 0" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	485'	0°	15"	12" HDPE	14.5"	Hole 16	16"	16"	-1.25"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

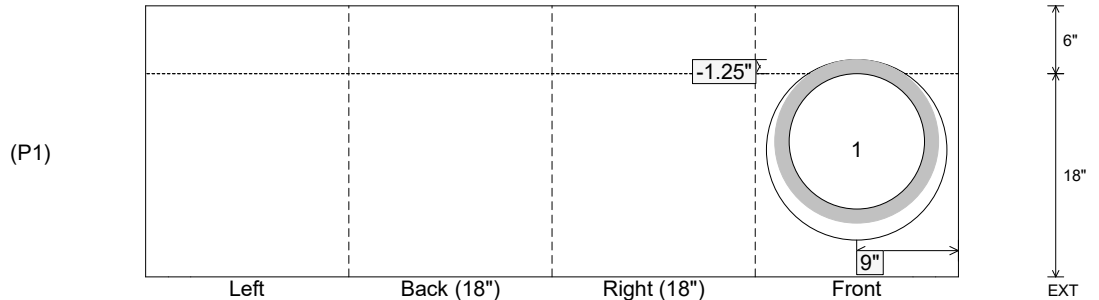
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



Invert: 1
Degree: 0°
Horz: 9"
Hole: 16"
Up(): -1.25"

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 6" Floor Height: 6"	Height (Int): 18" Height (Ext): 24"	Weight (Net): 1222 lb Volume (Net): 0.31cu.yd
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Structure ID: YI #3-10 INE7

P1 BX3030-06W08F-BAVF

BOX BASE 6inW, 8inF, Variable Ht T/n

- P3) 30" x 30" - CASTING HEIGHT - 0"
- P2) 30" x 30" - BOX RISER 6inW F/G - 36"
- P1) 30" x 30" - BOX BASE 6inW, 8inF, Variable Ht T/n - 36"
- 1) HOE R-4215-C INDOT Type 7 Convex Grate
- 2) 30" x 30" - Conseal CS-102 1.00"
- 2) Hole - 24"

	0 lb
	2610 lb
	3339 lb
	250 lb
	0 lb
	0 lb
Structure Total:	6199 lb

Structure Notes:

1. INDOT INLET TYPE E / ASTM C913 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. CASTING BY ICAST (INDOT TYPE 7 R-4215-C).
5. 34 1/2" X 34 1/2" X 1" DEEP RECESS IN THE TOP OF THE WALLS

REINFORCING PER ASTM A615 (GRADE 60).

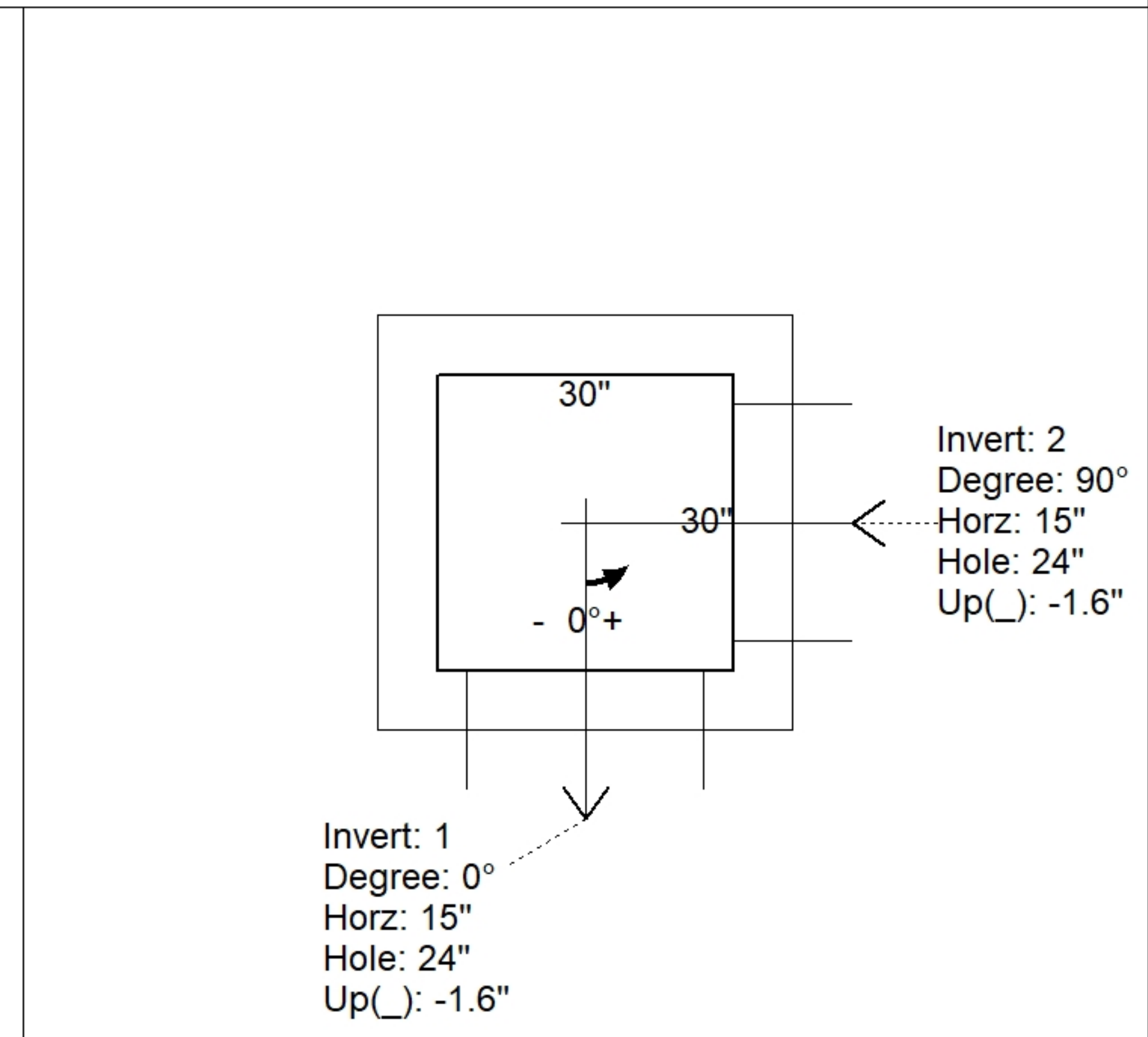
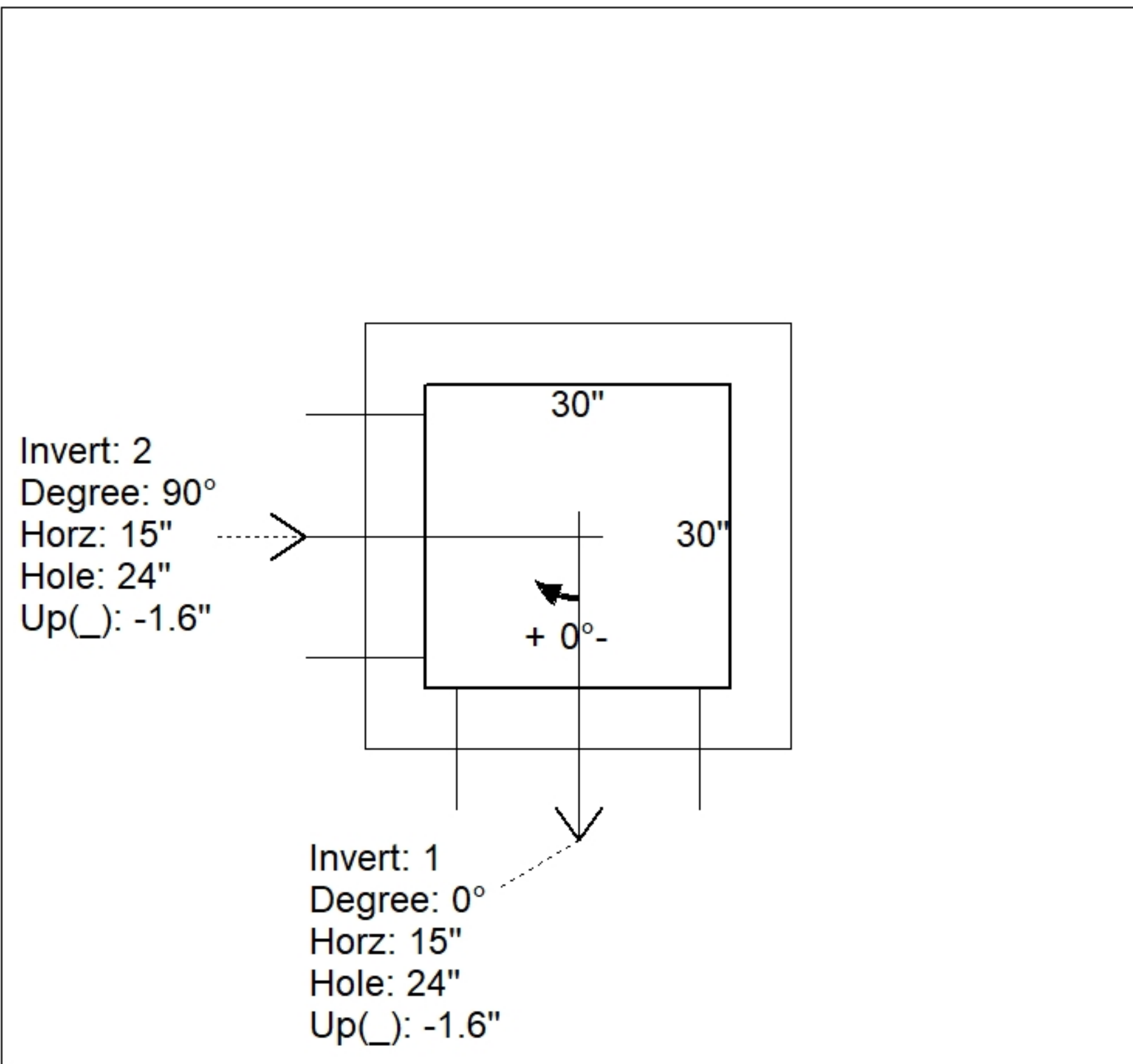
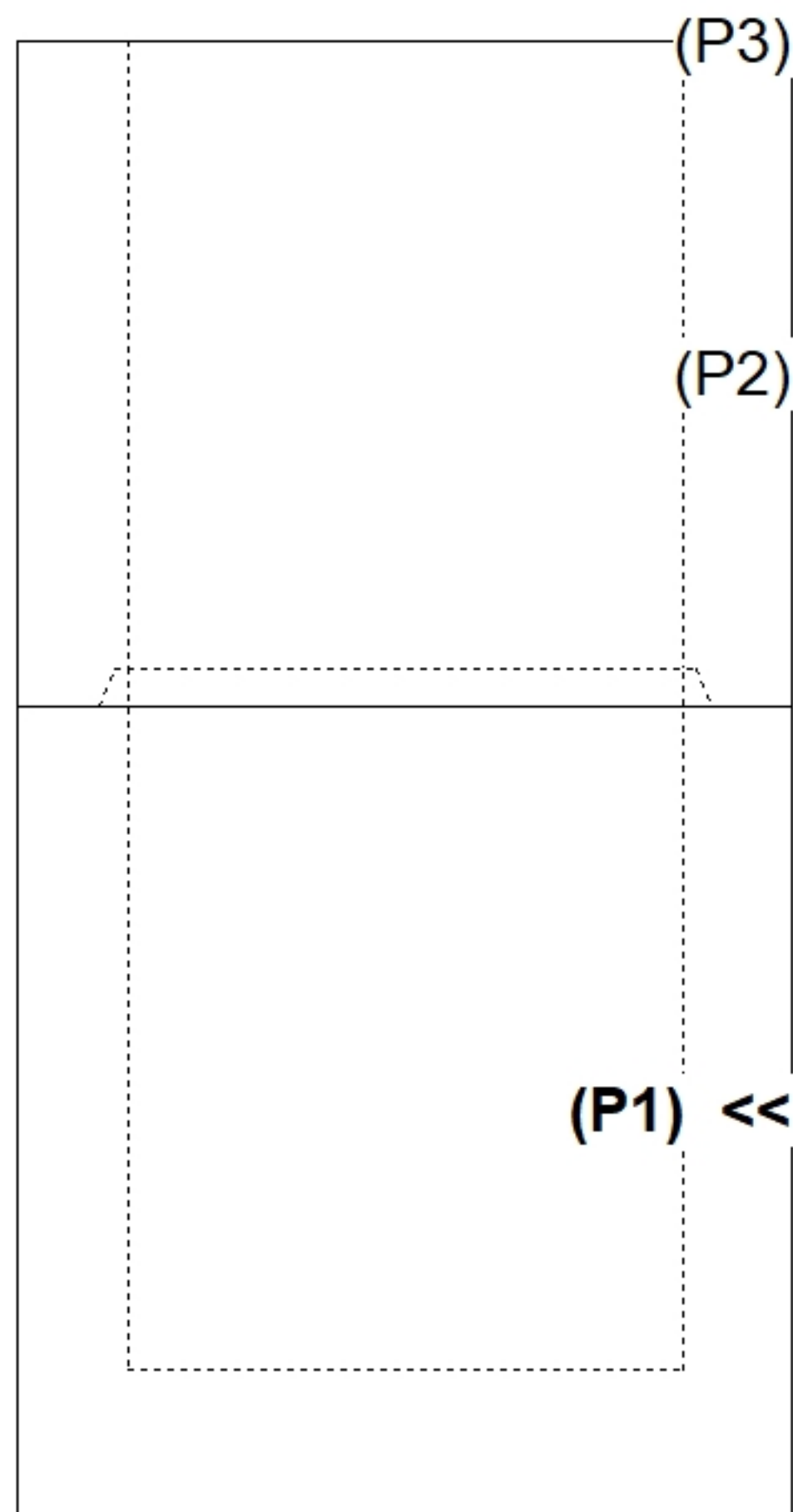
- WALLS (As .31) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 772.25' Rim to Invert: 6' Slack: 0" Sump: 0" Step Position:

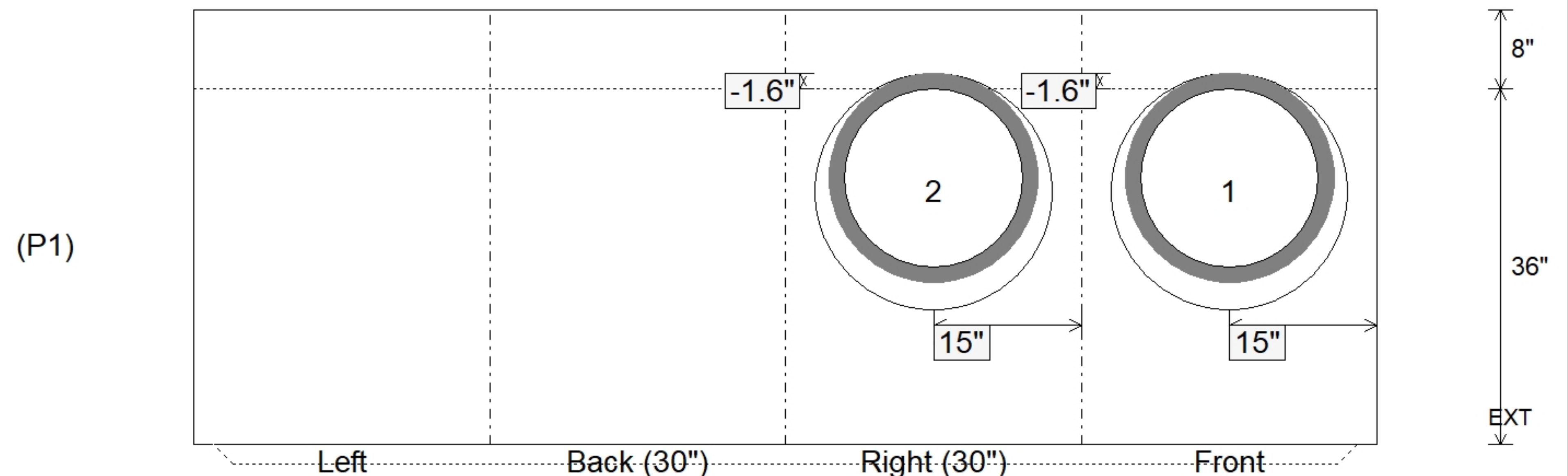
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	766.25'	0°	21"	18" HDPE	21.2"	Hole 24	24"	24"	-1.6"	0"
Invert 2	766.25'	90°	21"	18" HDPE	21.2"	Hole 24	24"	24"	-1.6"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Tongue	Wall Thickness: 6"	Height (Int): 36"	Weight (Net): 3339 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 8"	Height (Ext): 44"	Volume (Net): 0.85cu.yd

Structure ID: JB #1-6 JBB

P1 BX2430-08BA48 BOX BASE 8inW, 8inF T/n

P4) CASTING (cast in) - 0 P3) 24" x 30" - BX FLAT LID 8inW SPEC. (KY JB-B1) F/F - 8" P2) 24" x 30" - BOX RISER 8inW F/G - 24" P1) 24" x 30" - BOX BASE 8inW, 8inF T/n - 48" 1) CASTING - HOE KY-206 F/C (KY TY1) 1) This Structure Includes a Cast-in Item 2) 24" x 30" - Conseal CS-102 1.00" 1) 24" - Conseal CS-102 1.00" 2) Hole - 24	0 lb 931 lb 2256 lb 5139 lb 206 lb 0 lb 0 lb 0 lb 0 lb 0 lb 8532 lb	Structure Notes: 1. KYTC JUNCTION BOX B1 / PER ASTM C913 SPEC'S. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. TOP SLAB w KYTC TYPE 1 F/C CAST FLUSH. 4. CASTING BY ICAST (HOE KY-206 F/C). CAST-IN. REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W. - WALLS (As .31) #5 BARS AT 12" C.C.E.W. - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.
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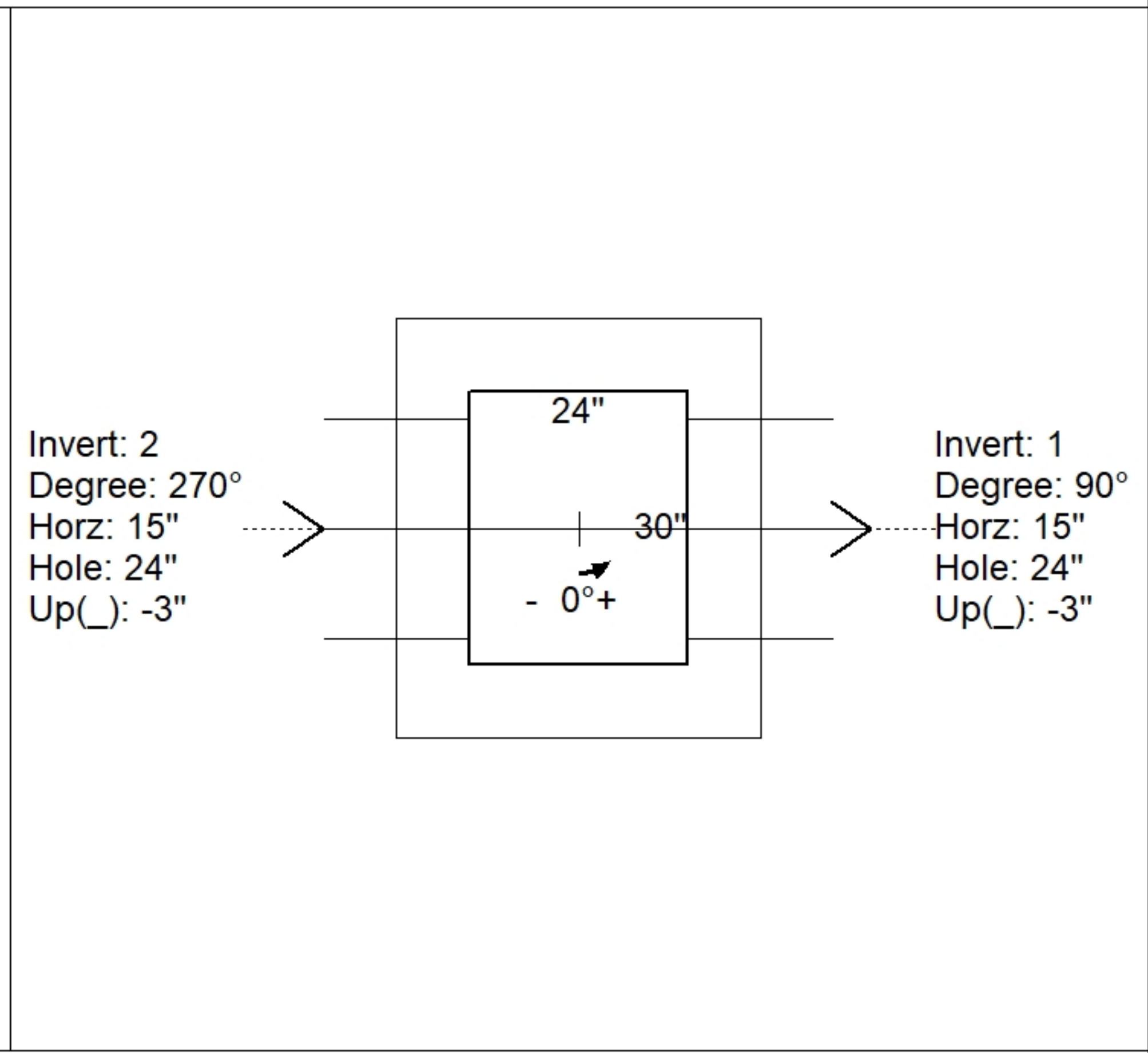
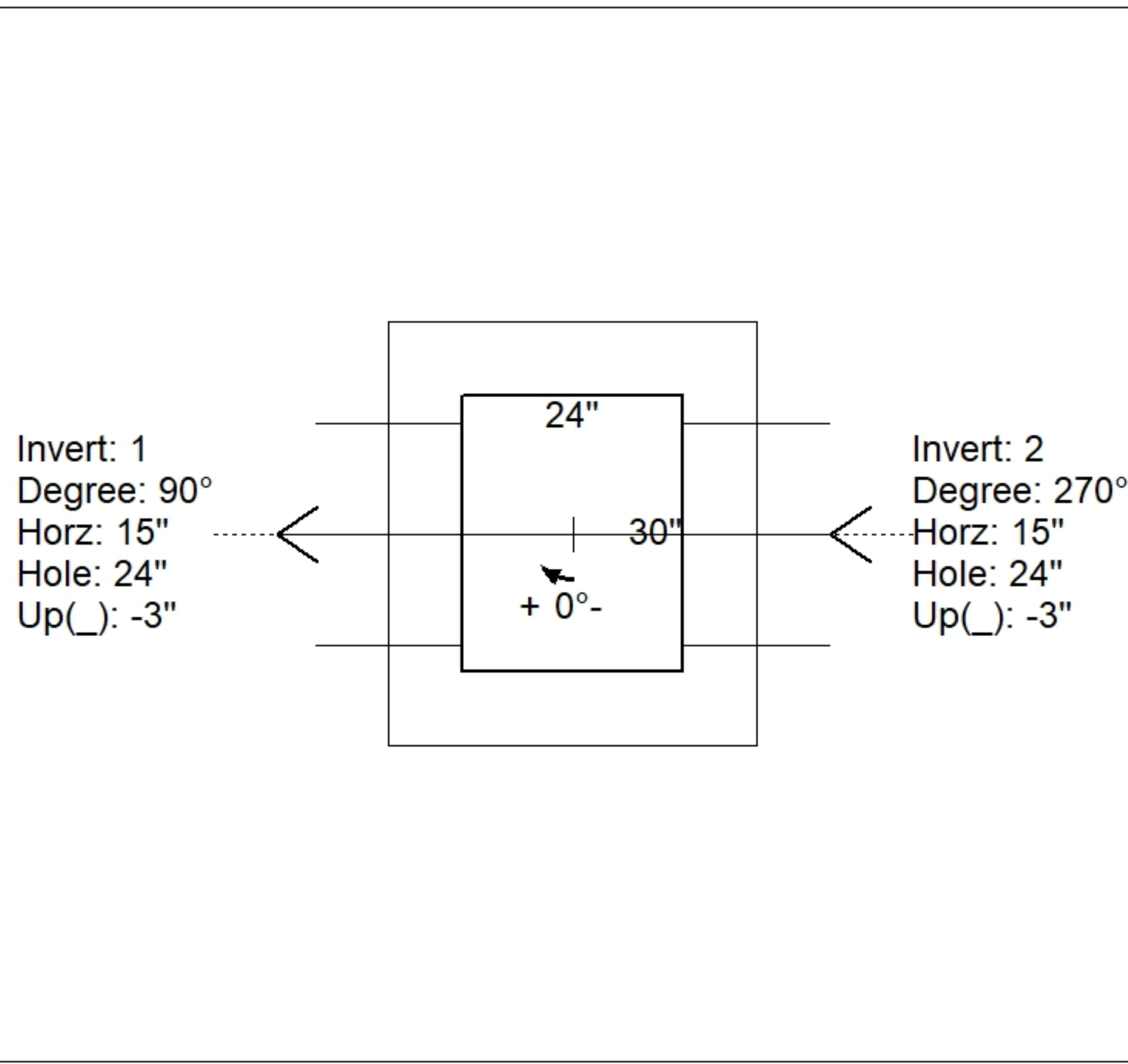
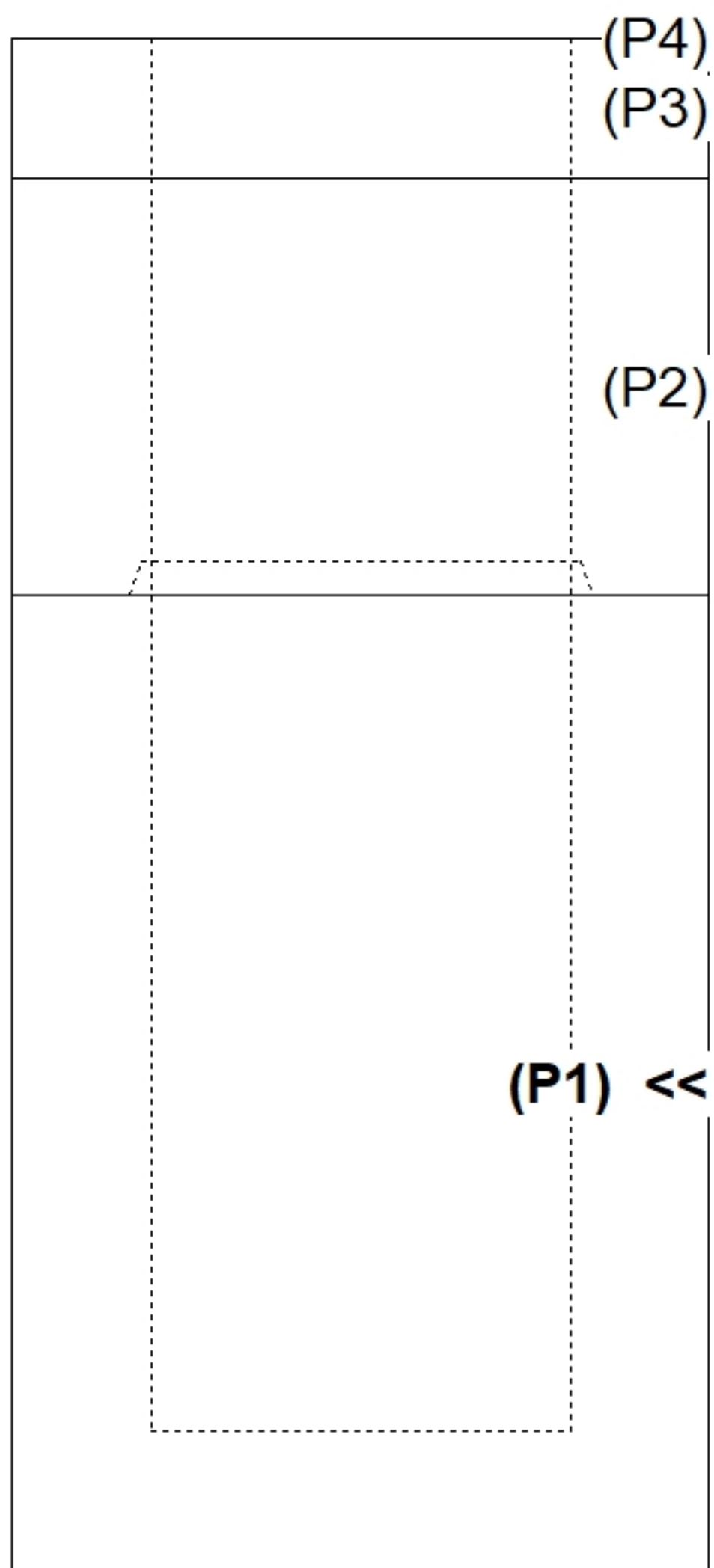
Structure Total: 8532 lb

Rim: 779' Rim to Invert: 7' Slack: 4" Sump: 0" Step Position:

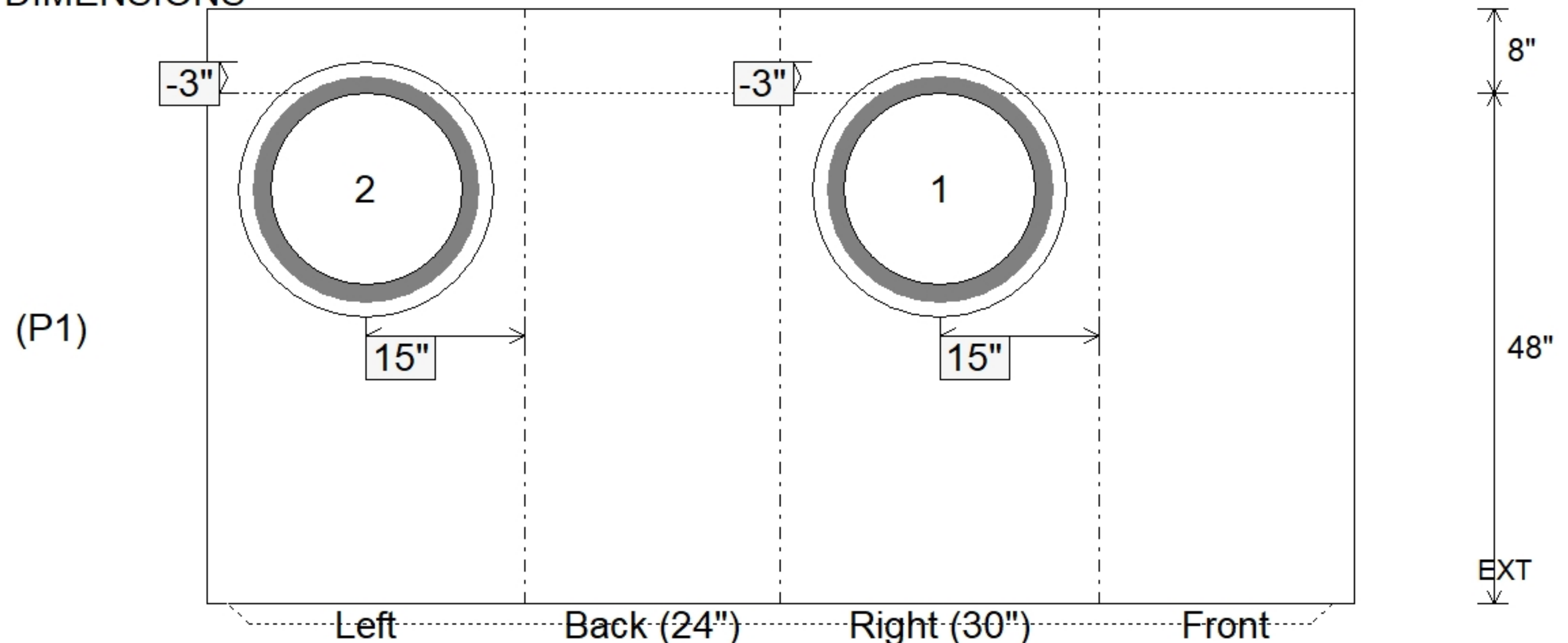
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	772'	90°	23"	18" HDPE	21.2"	Hole 24	24"	24"	-3"	0"
Invert 2	772'	270°	23"	18" HDPE	21.2"	Hole 24	24"	24"	-3"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 48" Height (Ext): 56"	Weight (Net): 5139 lb Volume (Net): 1.31cu.yd
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Structure ID: CI #3-4 CBIF

P1 BX3636-08BAVF

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

P3) 24" x 24" - CASTING HEIGHT - 5" P2) 36" x 36" - BX FLAT LID 8inW w/24"x24" HOLE F/F - 8" P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 59" 1) CASTING - HOE KY-465 SET (CBI TY F) 1) 36" x 36" - Conseal CS-102 1.00" 1) 24" x 24" - Conseal CS-102 1.00" 2) Hole - 24 1) Hole - 20	0 lb 1429 lb 7782 lb 465 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb	Structure Total: 9675 lb
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Structure Notes:
 1. KYTC CBI TYPE F / ASTM C913 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING BY ICAST (HOE KY-465 SET).

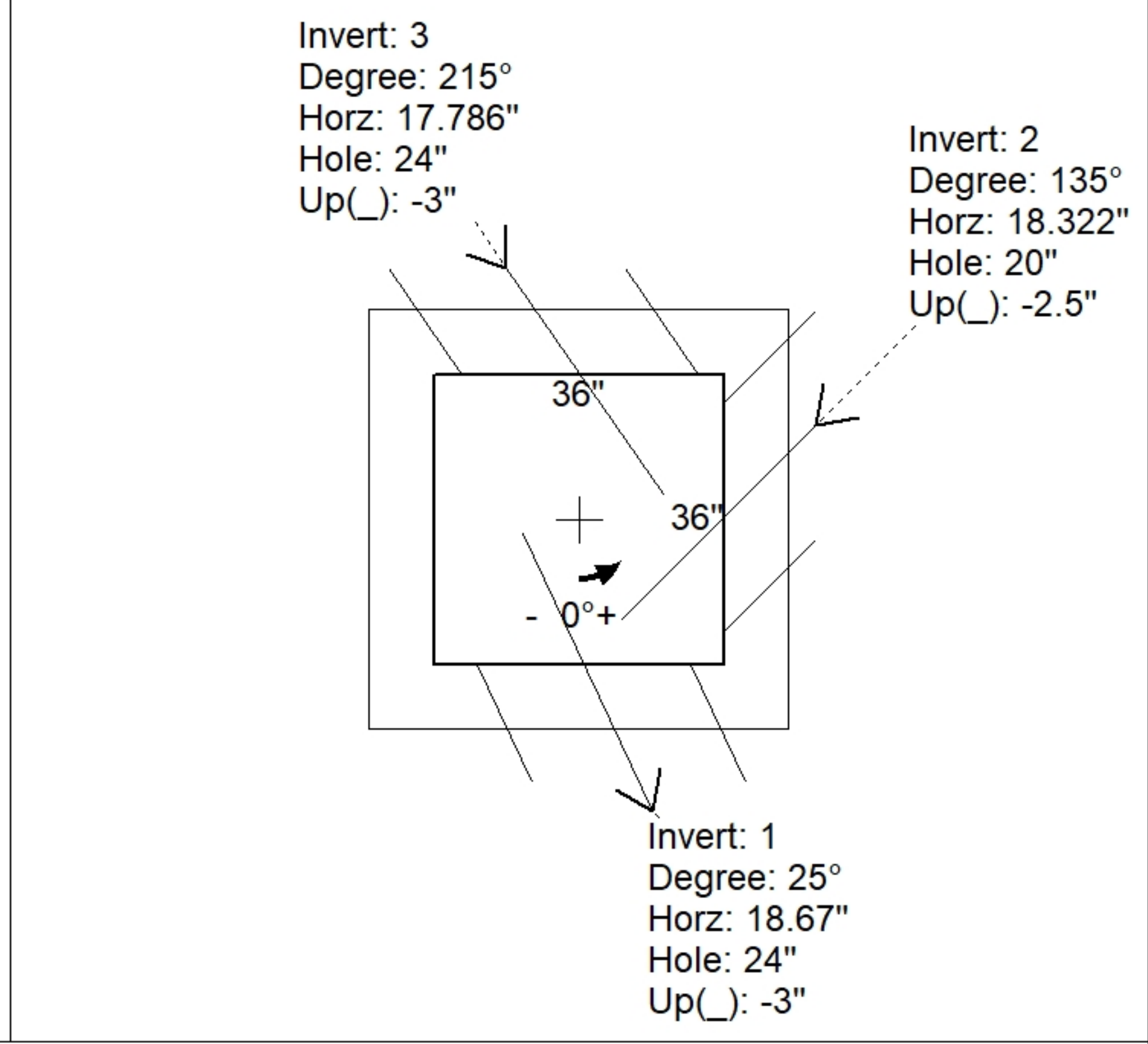
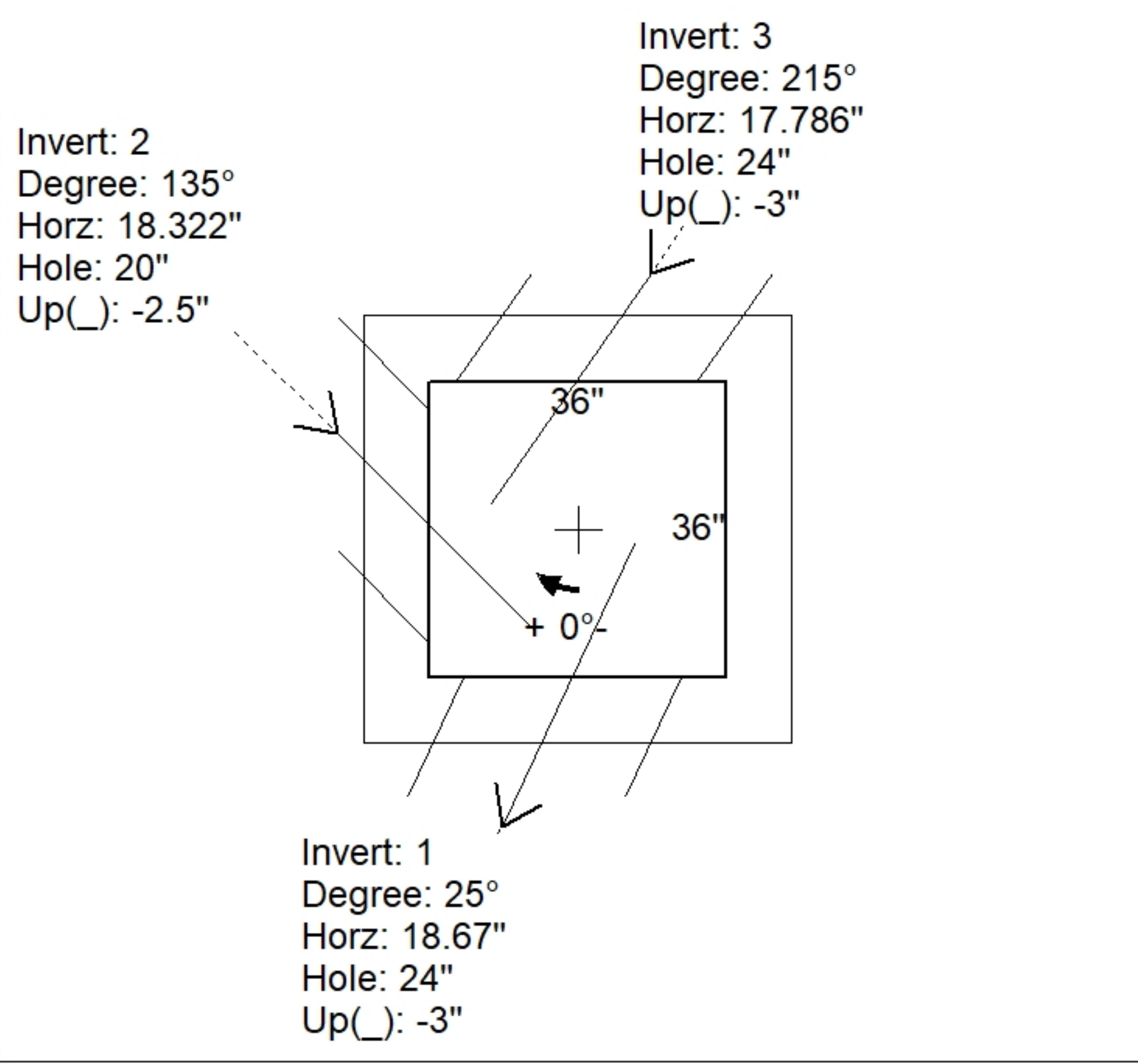
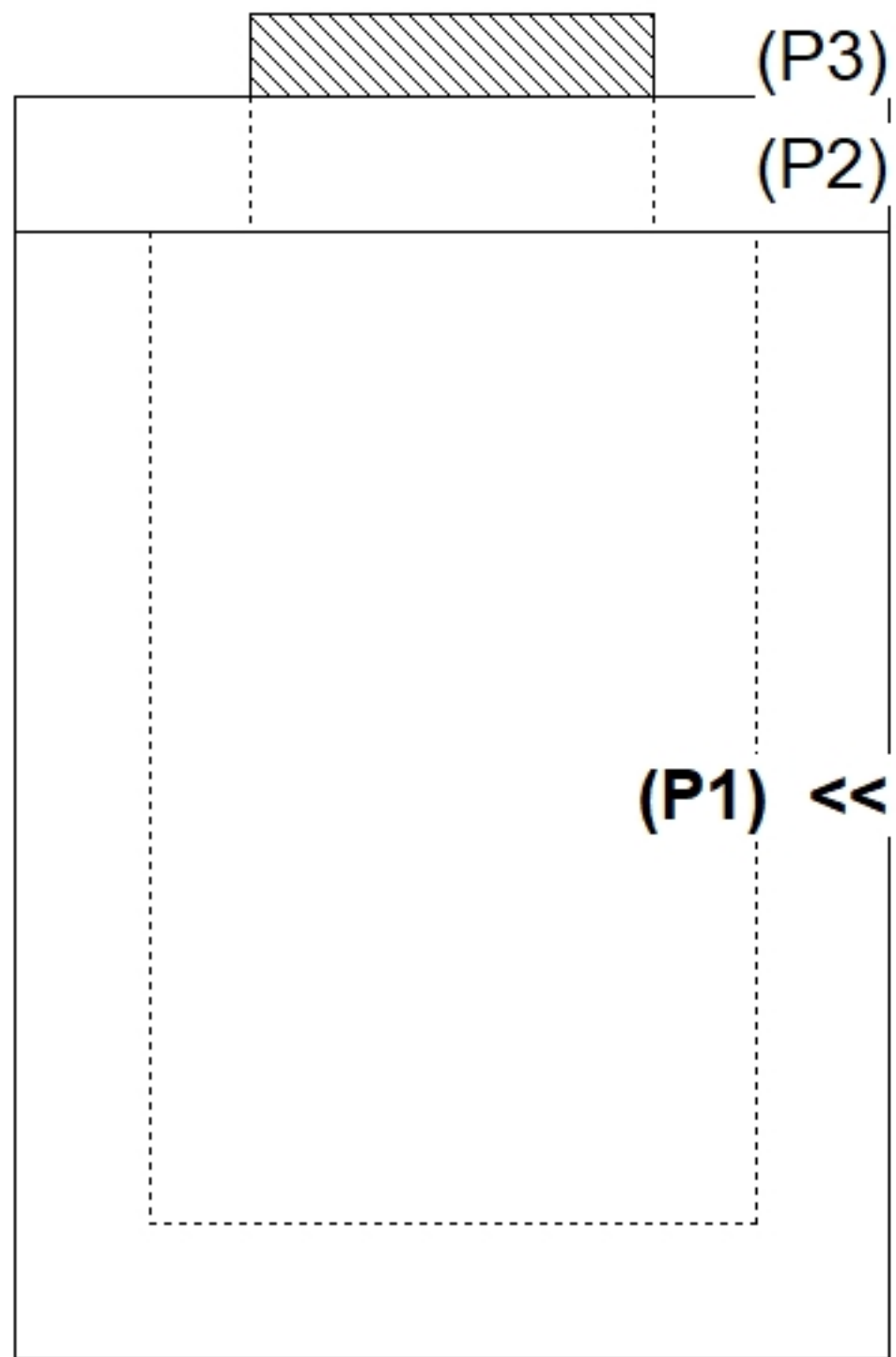
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W (DBL MAT)
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 770.75' Rim to Invert: 6' Slack: 0" Sump: 0" Step Position:

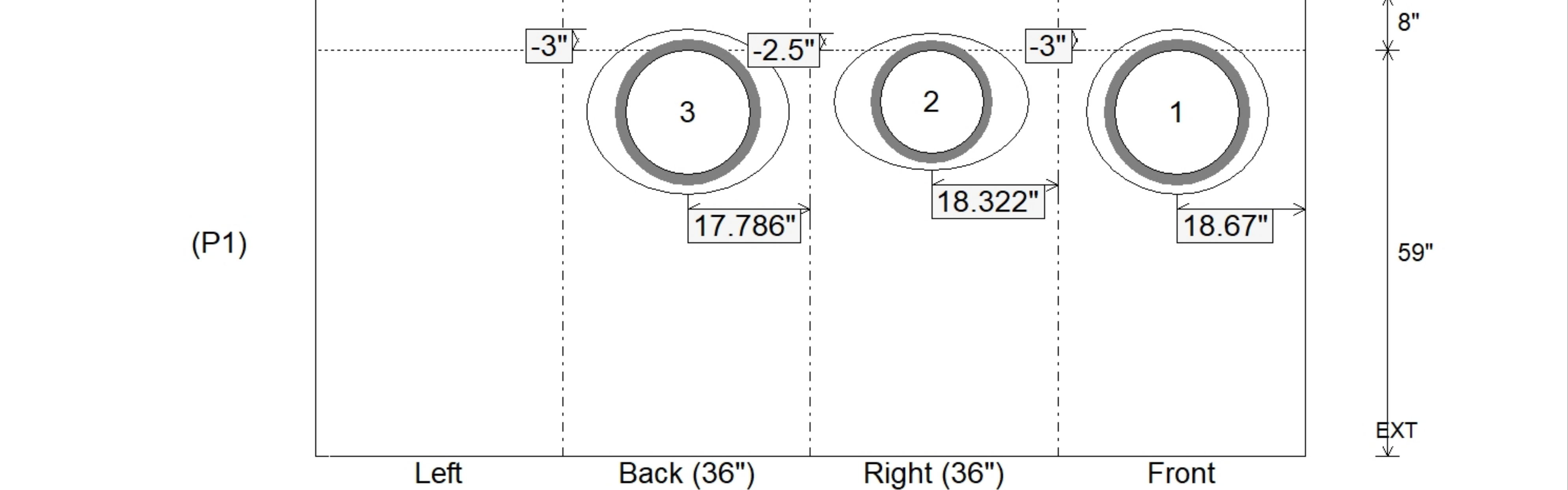
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	764.75'	25°	30.4"	18" HDPE	21.2"	Hole 24	24"	26.481"	-3"	-7"
Invert 2	764.75'	135°	34.322"	15" HDPE	17.6"	Hole 20	20"	28.284"	-2.5"	-12.5"
Invert 3	764.75'	215°	31.387"	18" HDPE	21.2"	Hole 24	24"	29.299"	-3"	-10.5"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 59" Height (Ext): 67"	Weight (Net): 7782 lb Volume (Net): 1.99cu.yd
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Job Name: 23-2792 - Teal Dr. Development
 Job Location: Gallatin, TN
 Contractor: Stewart Richey

Plant: 100
 3/25/2026 1:41:31 PM

Tech: J. Horsley - F
 PC: C. Goff



Structure ID: STM-A6

P1 BX3030-06BA54

BOX BASE 6inW, 6inF F/n

- P2) 30" x 30" - CASTING HEIGHT - 6"
- P1) 30" x 30" - BOX BASE 6inW, 6inF F/n - 54"
- 1) CASTING - JBS 3101 Single Set (F/G/H)
- 1) 30" x 30" - Conseal CS-102 1.00"
- 1) Hole - 18

0 lb
 4647 lb
 619 lb
 0 lb
 0 lb

 0 lb
 Structure Total: 5266 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 (JBS 3101 SINGLE SET (F/G/H)).

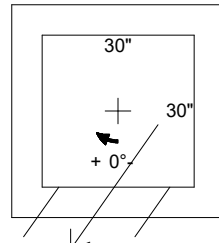
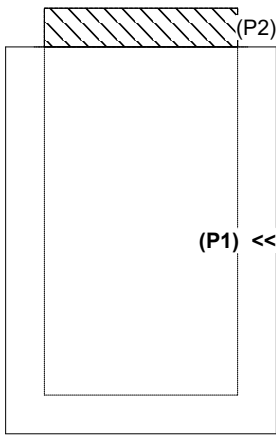
REINFORCING PER ASTM A615 (GRADE 60).
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 471.17' Rim to Invert: 5.08' Slack: 0.96" Sump: 0" Step Position:

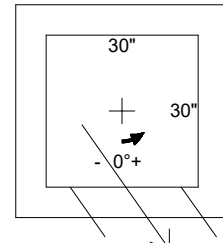
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	466.09'	35°	26"	12" RCP B WALL	16"	Hole 18	18"	21.974"	-2"	-8"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

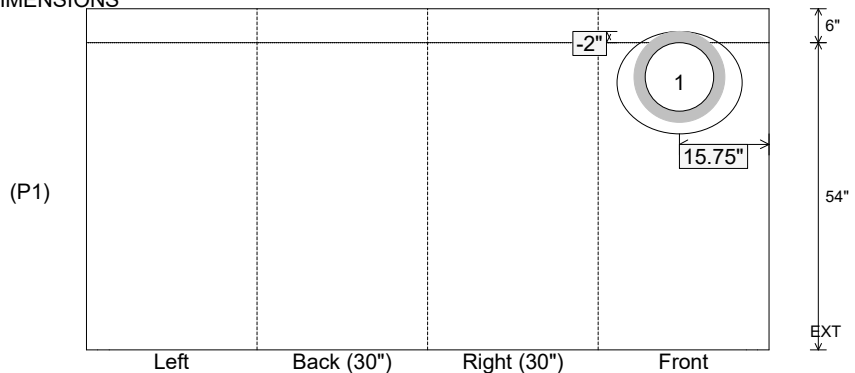


Invert: 1
 Degree: 35°
 Horz: 15.75"
 Hole: 18"
 Up(): -2"



Invert: 1
 Degree: 35°
 Horz: 15.75"
 Hole: 18"
 Up(): -2"

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: n/a

Wall Thickness: 6"
 Floor Height: 6"

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

Weight (Net): 4647 lb
 Volume (Net): 1.19cu.yd

Structure ID: BASIN A - 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
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Structure Notes:
 1. PER ASTM C913 SPECIFICATIONS.
 2. CONCRETE = 4,500 PSI AT 28 DAYS.
 3. CASTING/BAR GRATE SUPPLIED BY OTHERS.

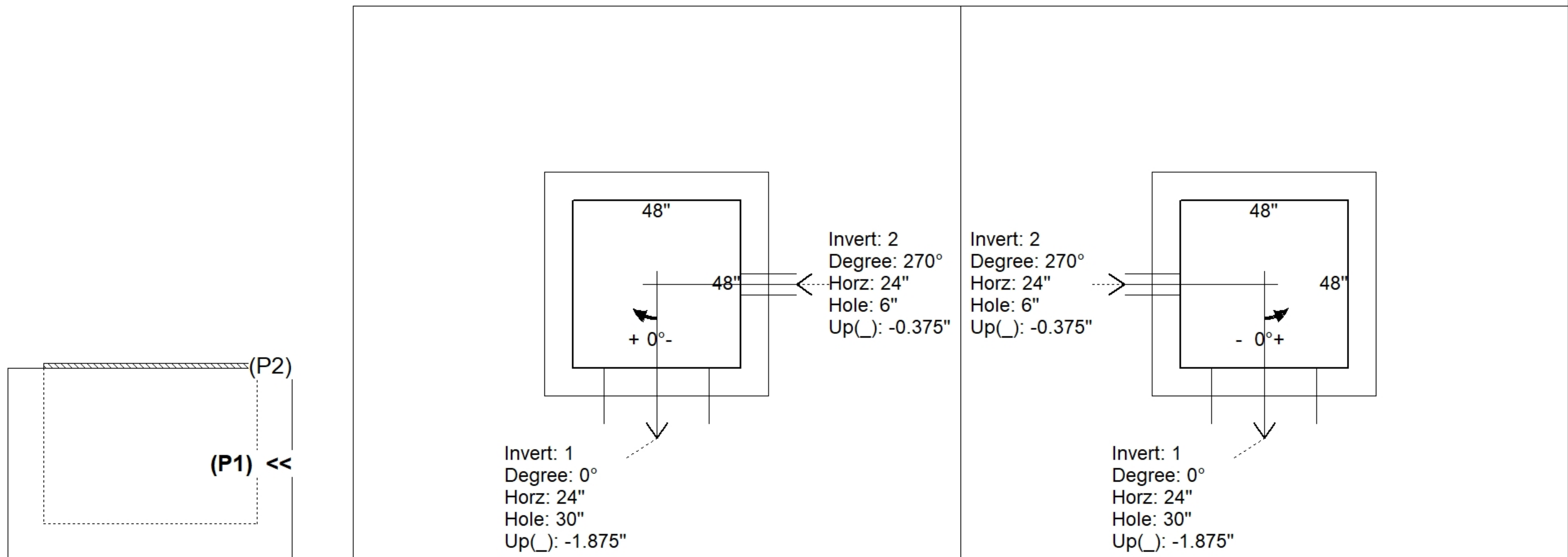
REINFORCING PER ASTM A615 (GRADE 60).
 - BASE WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - BASE FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 854' Rim to Invert: 3' Slack: 0" Sump: 0" Step Position:

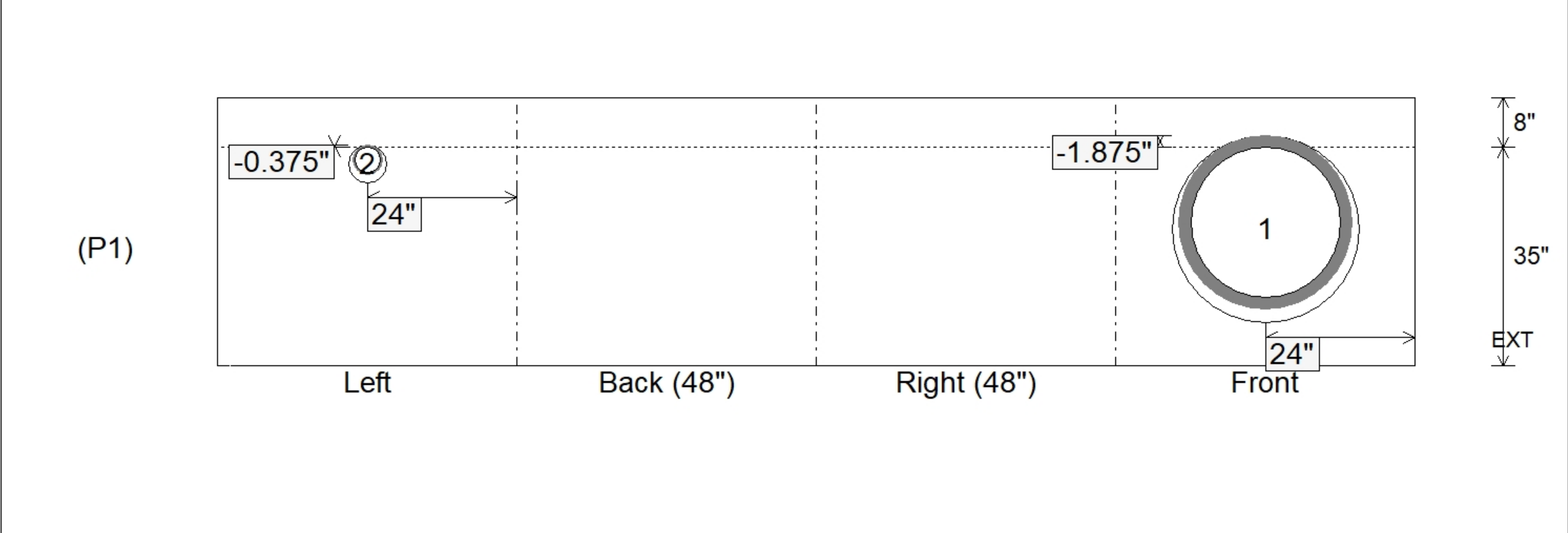
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	851'	0°	32"	24" HDPE	27.8"	Hole 30	30"	30"	-1.875"	0"
Invert 2	851'	270°	32"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6"	-0.375"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



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
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Job Name: 23-2792 - Teal Dr. Development
 Job Location: Gallatin, TN
 Contractor: Stewart Richey

Plant: 100
 3/25/2026 1:41:37 PM

Tech: J. Horsley - F
 PC: C. Goff



Structure ID: STM-D1.1

P1 BX28280606VH

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

- P2) 28" x 28" - CASTING HEIGHT - 6"
- P1) 28" x 28" - BOX BASE 6inW, 6inF, Variable Ht F/n - 31"
- 1) CASTING - JBS 3101 Single Set (F/G/H)
- 1) 28" x 28" - Conseal CS-102 1.00"
- 1) Hole - 18

0 lb
 2800 lb
 619 lb
 0 lb
 0 lb

 Structure Total: 3419 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 (JBS 3101 SINGLE SET (F/G/H)).

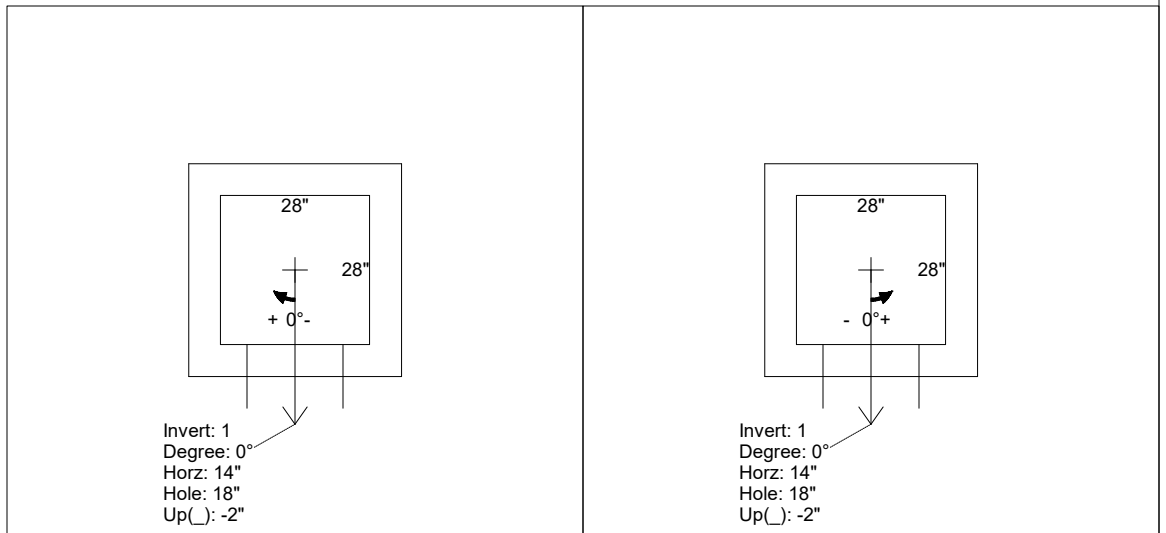
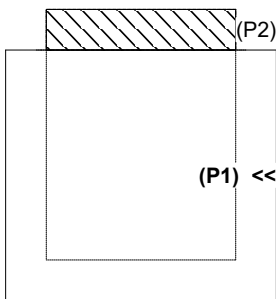
REINFORCING PER ASTM A615 (GRADE 60).
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 468.95' Rim to Invert: 3.15' Slack: 0.8" Sump: 0" Step Position:

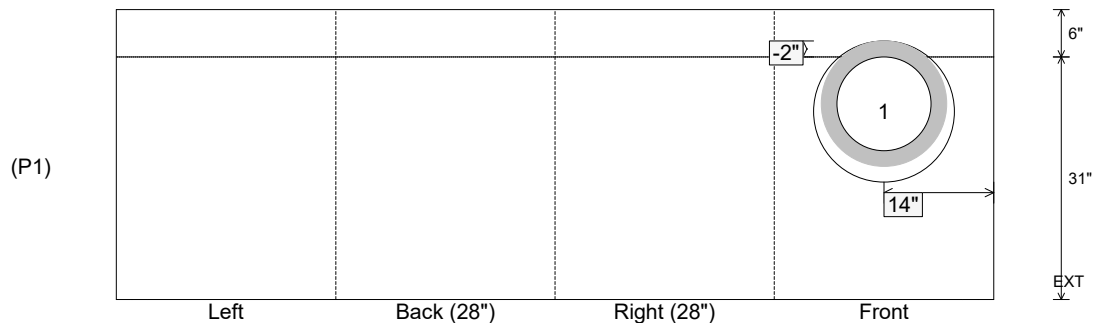
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	465.8'	0°	20"	12" RCP B WALL	16"	Hole 18	18"	18"	-2"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: n/a

Wall Thickness: 6"
 Floor Height: 6"

Height (Int): 31"
 Height (Ext): 37"

Weight (Net): 2800 lb
 Volume (Net): 0.72cu.yd

Job Name: 25-4299 - Seneca High School Job Location: Louisville, KY Contractor: Dan Cristiani Excavating Co. Inc.	Plant: 100 2/13/2026 10:05:04 AM	Tech: J. Horsley PC: J. Jarvis	
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Structure ID: A28

P1 BX2424-08BAVF

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

P2) 24" x 24" - CASTING HEIGHT - 4"
P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 22"
1) 24" x 24" - Conseal CS-102 1.00"
1) Hole - 16

0 lb
2821 lb
0 lb
0 lb

Structure Total: 2821 lb

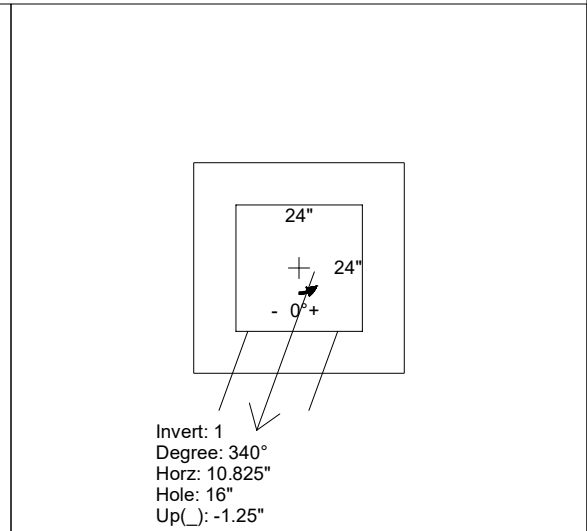
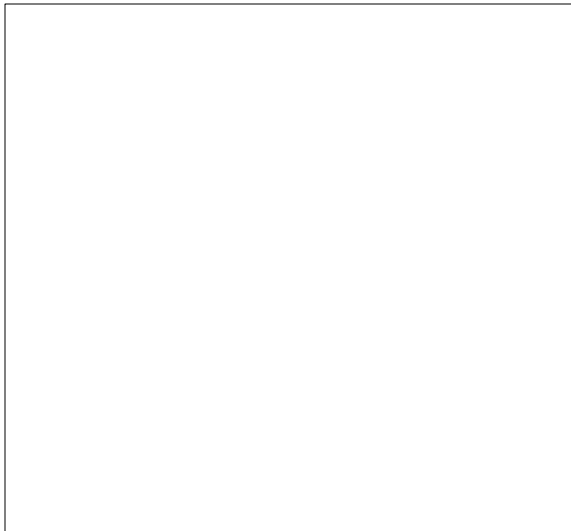
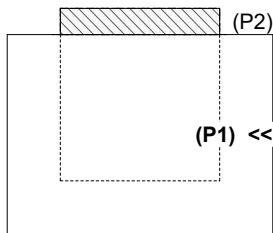
- Structure Notes:**
1. PER LOUISVILLE MSD / ASTM C-913 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 4. NO STORM INVERT
 5. NO STEPS
 6. HOE 280T FRAME & GRATE SUPPLIED BY OTHERS

Rim: 485.1' Rim to Invert: 2.2' Slack: 0.4" Sump: 0" Step Position:

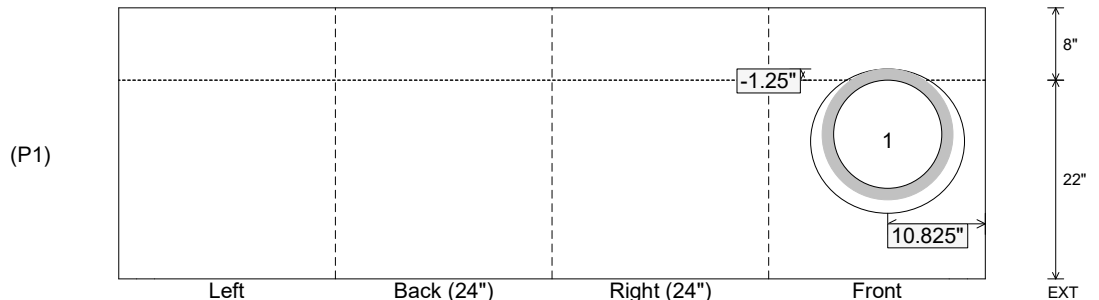
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (⌋)	Offset
Invert 1	482.9'	340°	15.913"	12" HDPE	14.5"	Hole 16	16"	17.027"	-1.25"	3"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

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

Weight (Net): 2821 lb
Volume (Net): 0.72cu.yd

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

Plant: 100
 2/13/2026 10:05:02 AM

Tech: J. Horsley
 PC: J. Jarvis



Structure ID: A27

P1 BX2424-08BAVF

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

P2) 24" x 24" - CASTING HEIGHT - 4"
 P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 26"
 1) 24" x 24" - Conseal CS-102 1.00"
 2) Hole - 16

0 lb
 3021 lb
 0 lb
 0 lb

 Structure Total: 3021 lb

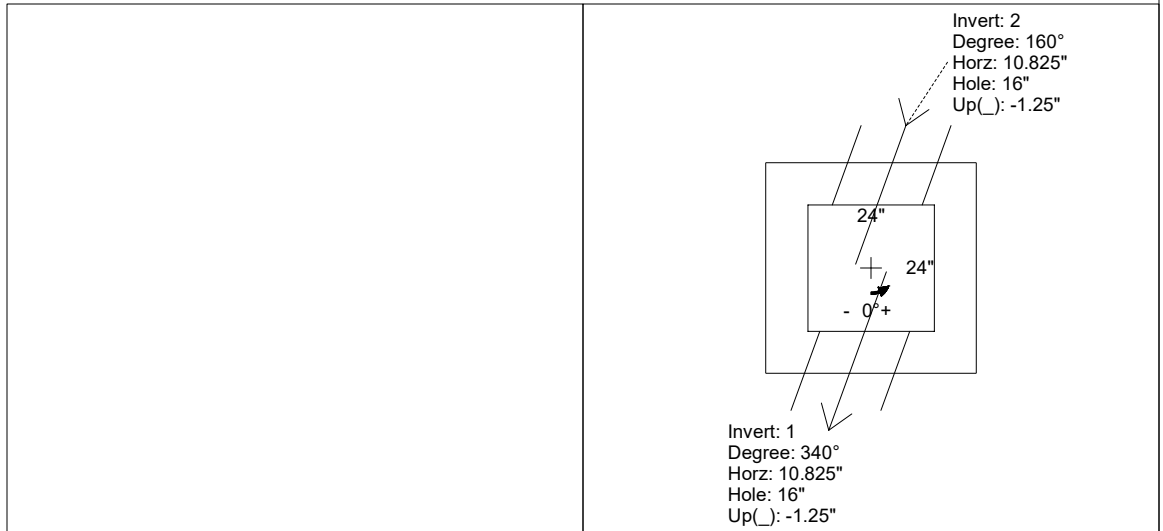
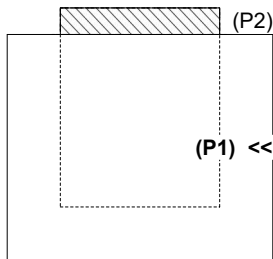
- Structure Notes:**
- PER LOUISVILLE MSD / ASTM C-913 SPECIFICATIONS
 - CONCRETE: 4,000 PSI AT 28 DAYS
 - REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 - NO STORM INVERT
 - NO STEPS
 - HOE 280T FRAME & GRATE SUPPLIED BY OTHERS

Rim: 485.1' Rim to Invert: 2.55' Slack: 0.6" Sump: 0" Step Position:

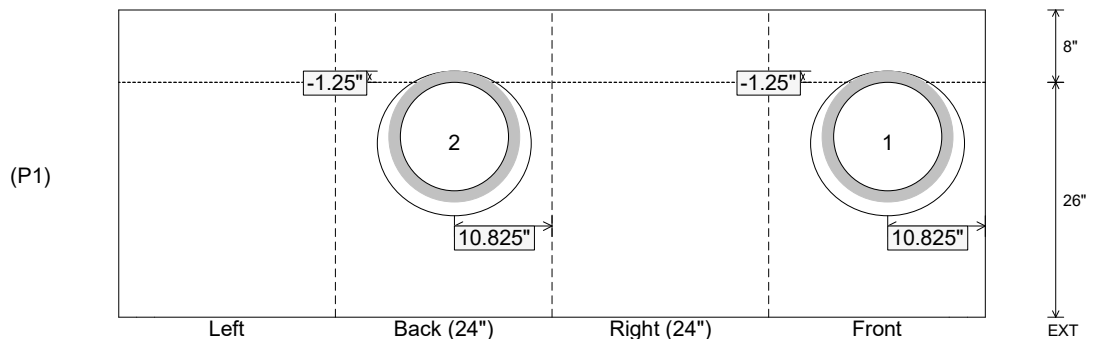
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	482.55'	340°	15.913"	12" HDPE	14.5"	Hole 16	16"	17.027"	-1.25"	3"
Invert 2	482.55'	160°	15.913"	12" HDPE	14.5"	Hole 16	16"	17.027"	-1.25"	3"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: n/a

Wall Thickness: 8"
 Floor Height: 8"

Height (Int): 26"
 Height (Ext): 34"

Weight (Net): 3021 lb
 Volume (Net): 0.77cu.yd

Job Name: 23-2792 - Teal Dr. Development
 Job Location: Gallatin, TN
 Contractor: Stewart Richey

Plant: 100
 3/25/2026 1:41:40 PM

Tech: J. Horsley - F
 PC: C. Goff



Structure ID: STM-D6

P1 BX3232-08BAVF

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

- P2) 32" x 32" - CASTING HEIGHT - 0"
- P1) 32" x 32" - BOX BASE 8inW, 8inF, Variable Ht F/n - 32"
- 1) CASTING - JBS 4200 Grate
- 1) 32" x 32" - Conseal CS-102 1.00"
- 1) Hole - 26

0 lb
 4627 lb
 459 lb
 0 lb
 0 lb

 Structure Total: 5086 lb

Structure Notes:
 1. PER TDOT D-CB-42S / ASTM C913 SPEC'S.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO STEPS AND NO INVERT CHANNEL.
 4. CASTING BY ICAST (TNDOT TY.42 - JBS 4200 GRATE).
 5. 2" WD x 2" DEEP GRATE SEAT/RECESS IN TOP OF WALLS.

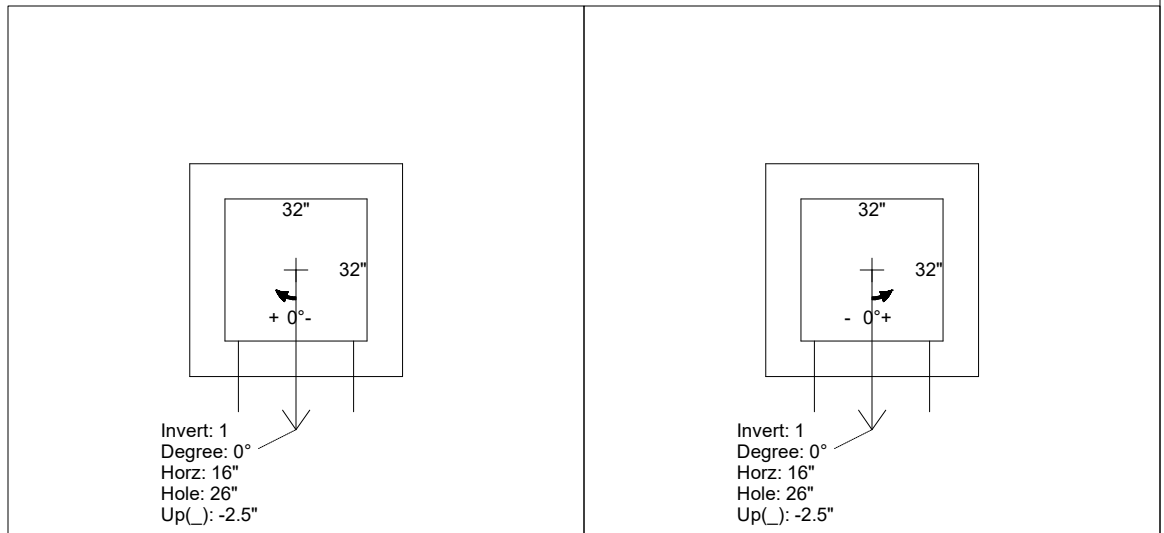
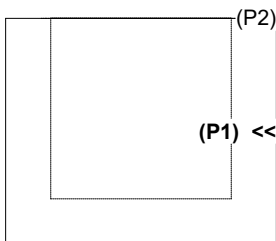
 REINFORCING PER ASTM A615 (GRADE 60).
 ** SEE TDOT STD DRAWING D-CB-42S **
 - WALLS (As .62) #5 BARS AT 6" C.C.E.W.
 - FLOOR (As .62) #5 BARS AT 6" C.C.E.W.

Rim: 470.18' Rim to Invert: 2.69' Slack: 0.28" Sump: 0" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	467.49'	0°	24"	18" RCP B WALL	23"	Hole 26	26"	26"	-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. 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): 4627 lb
 Volume (Net): 1.18cu.yd

Job Name: 25-2600P2 - Quicktrip 7160
 Job Location: Louisville, KY
 Contractor: Cornell Harbison Excavating

Plant: Beaver Dam
 5/29/2026 8:28:21 AM

Tech: J. Coppage
 PC: J. Jarvis



Structure ID: DBI-13G - cust. grade ring

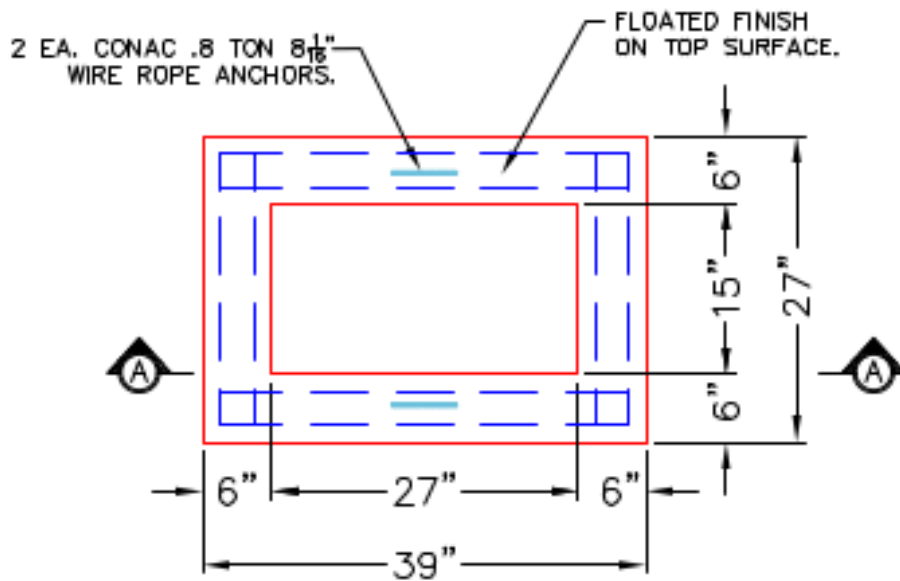
P1 GR15X27X6X6-SP

GRADE RING-SPECIAL F/F

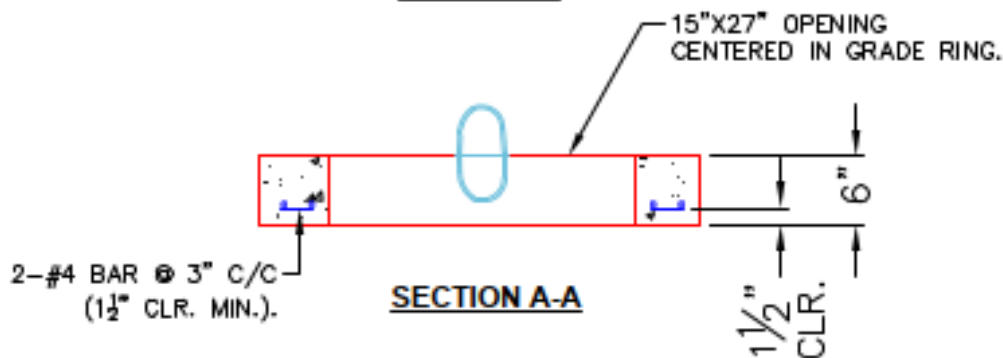
P1) 15" x 27" - GRADE RING-SPECIAL F/F - 6"

Structure Total: 326 lb

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



PLAN VIEW



SECTION A-A

#4 BAR CUT LIST
 4 EA. @ 36" LG.
 4 EA. @ 24" LG.

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

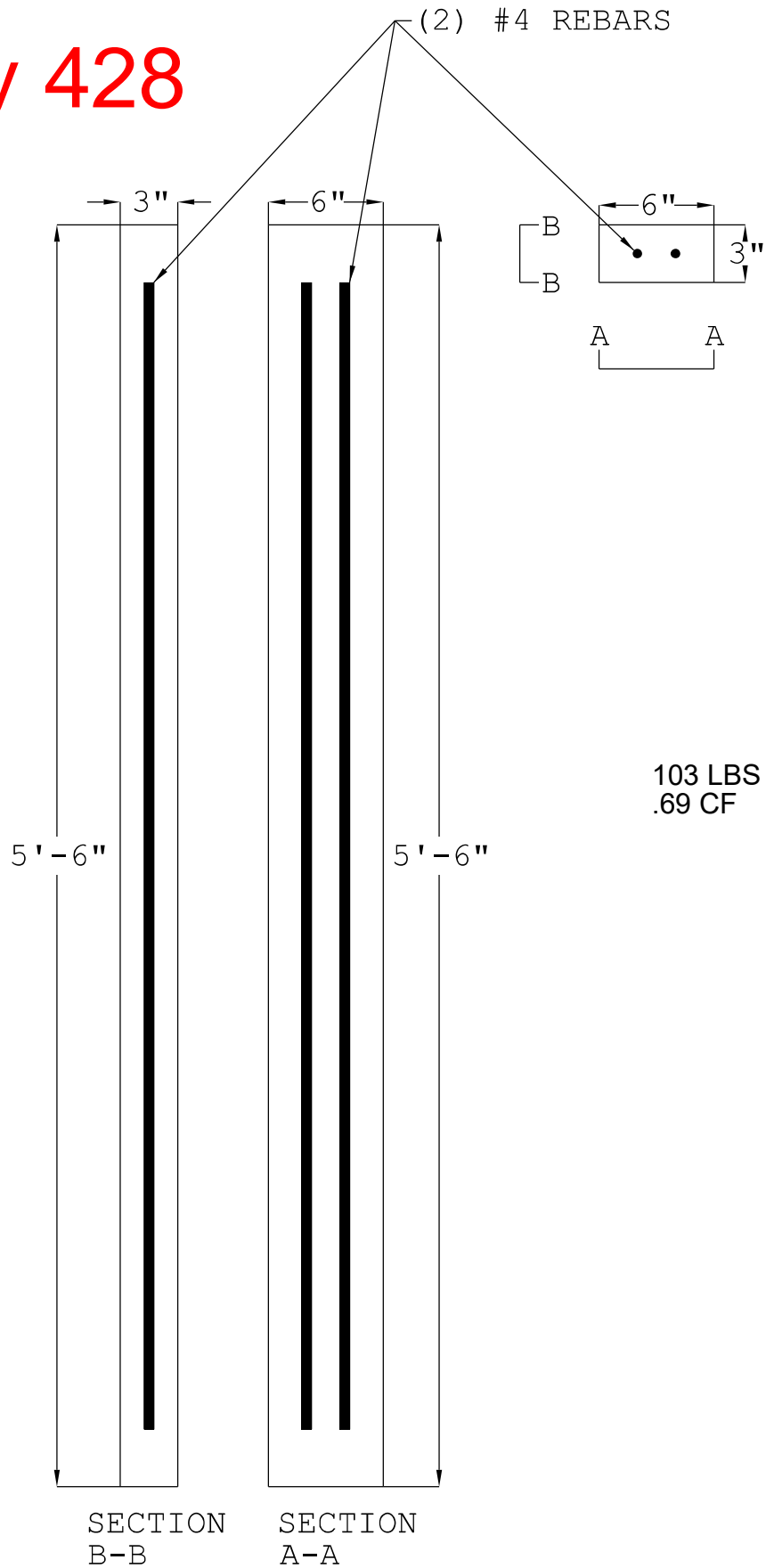
Wall Thickness: 6"

Height (Ext): 6"

Weight (Net): 326 lb
 Volume (Net): 0.08cu.yd

ALCOA CONCRETE LOGS

Quantity 428





Structure ID: STM-H0

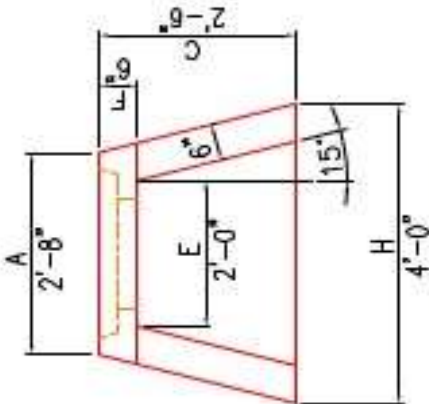
P1 HAW18F

18" - HW AW w/FLAT BOTTOM

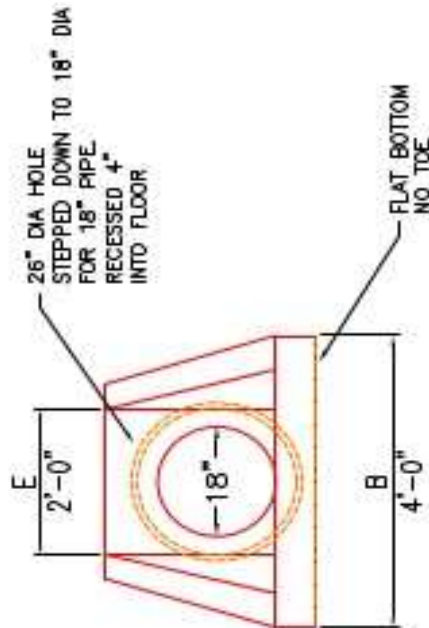
DIMENSIONS & QUANTITIES										
TYPE	PIPE Ø	A	B	C	D	E	F	C	H	WEIGHT
AW	18"	2'-8"	2'-8"	2'-6"	2'-2"	2'-0"	6"	0"	4'-0"	1,380 LBS.
										1,380 LBS.

NOTES:

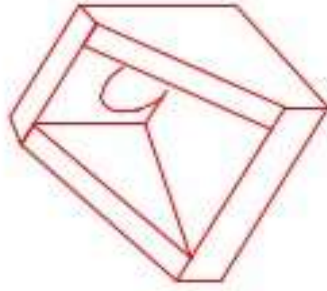
1. CONCRETE: 4500 PSI AT 28 DAYS MINIMUM COMPRESSIVE STRENGTH.
2. REINFORCING: #4 BAR @ 12" C/C E.W. -GRADE 60, (WITH 2" CONCRETE COVER MINIMUM)
3. REINFORCING BARS TO BE TACK WELDED OR TIED.
4. PIPE AND LIFTING ANCHOR POCKETS TO BE GROUTED WITH NON-SHRINK GROUT AFTER SETTING.
5. PREFORMED STEPPED HOLE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



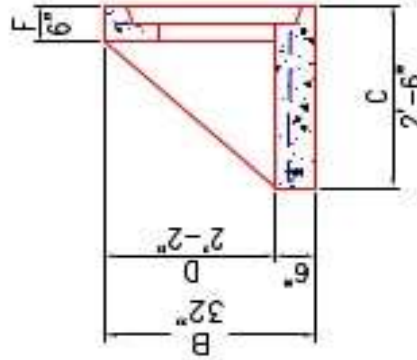
PLAN VIEW



FRONT ELEVATION



ISOMETRIC VIEW



SECTION A-A

PRODUCTION WORK ORDER		PRODUCT I.D.: HAW18F	
QUALITY CONTROL CHECKLIST <input type="checkbox"/> ALL DIMENSIONS CORRECT. <input type="checkbox"/> LIFTERS INSTALLED. <input type="checkbox"/> STEPPED HF CORRECT SIZE. <input type="checkbox"/> REINFORCING CORRECT. <input type="checkbox"/> CLEARANCE ON REINFORCING CORRECT. <input type="checkbox"/> EDGES CHAMFERED. <input type="checkbox"/> ALL PATCHWORK ACCEPTABLE.		DESCRIPTION: 18in AW WINGED HEADWALL, FLAT CUSTOMER: STOCK PROJECT: STOCK STRUCTURE ID.: T.B.D. SALES ORDER NO: T.B.D. PC: B. KELLY DATE: 10/30/23 SCALE: NTS PG. 1 of 1	DRAWING: J. HORSLEY NTS





Structure ID: 2 HW

P1 HWPC4468

68" x 44" - PIPE CULVERT HEADWALL (ELL.RCP) F/F



INFRASTRUCTURE PRECAST, INC. 981 WEST 7TH ST., BEAVER DAM, KY. 42320 PHONE: (270) 363-2238, FAX: (270) 298-7424	
KYTC 30" - 72" PRECAST PIPE CULVERT HEADWALLS - 0' SKEW (FOR NON-CIRCULAR, EQUIVALENT PIPE)	
DRAWING NO.: ET-KYTC-110	DATE: 06-05-25
REVIEWED BY: J.H. ROSS, PE	DRAWN BY: N. RICHARDS
WEB: WWW.ICASTINC.COM	SCALE: NTS

DIMENSIONS	NON-CIRCULAR PIPE; EQUIVALENT ROUND SIZES										DIMENSIONS	
	30" (24"x38")	36" (29"x45")	42" (34"x53")	48" (38"x60")	54" (43"x68")	60" (48"x76")	66" (53"x83")	72" (58"x91")				
A	3'-4"	3'-10"	4'-4"	4'-9"	5'-3"	5'-9"	6'-3"	6'-9"			A	
B	1'-0"	1'-3"	1'-5"	1'-7"	1'-10"	2'-0"	2'-3"	2'-5"			B	
C	3'-0"	3'-6"	3'-11"	4'-4"	4'-9"	5'-3"	5'-8"	6'-2"			C	
E	3'-10"	4'-6"	5'-3"	5'-11"	6'-8"	7'-5"	8'-1"	8'-10"			E	
F	3'-10"	4'-5"	5'-0"	5'-6"	6'-1"	6'-8"	7'-3"	7'-10"			F	
G	3'-10"	4'-5"	5'-0"	5'-6"	6'-1"	6'-8"	7'-3"	7'-10"			G	
H	7'-8"	9'-0"	10'-4"	11'-4"	12'-8"	14'-0"	15'-4"	16'-8"			H	
J	3'-10"	4'-6"	5'-2"	5'-8"	6'-4"	7'-0"	7'-8"	8'-4"			J	
M	0'-5"										M	
N	0'-5"										N	
T	0'-3.75"	0'-4.5"	0'-5"	0'-5.5"	0'-6"	0'-6.5"	0'-7"	0'-7.5"			T	
V	0'-8"										V	
W	0'-8"										W	
Y	2'-0"										Y	
CONCRETE (LBS.)	6,030	7,712	9,514	11,275	13,507	15,975	18,557	21,454			CONCRETE (LBS.)	
REINFORCING STEEL (LBS.)	137	157	197	220	261	305	341	401			REINFORCING STEEL (LBS.)	

DIMENSIONS AND QUANTITIES ARE BASED ON ONE HEADWALL & OPENING FOR ELLIPTICAL CONCRETE PIPE.



Structure ID: QL3 HW (3)

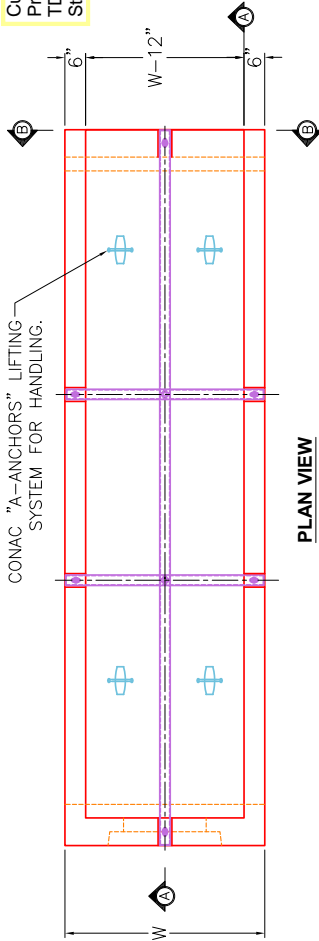
P1 HWTDOT3-1TU36

36" - HW TDOT 3:1 Type U Cross Drain Endwall F/F

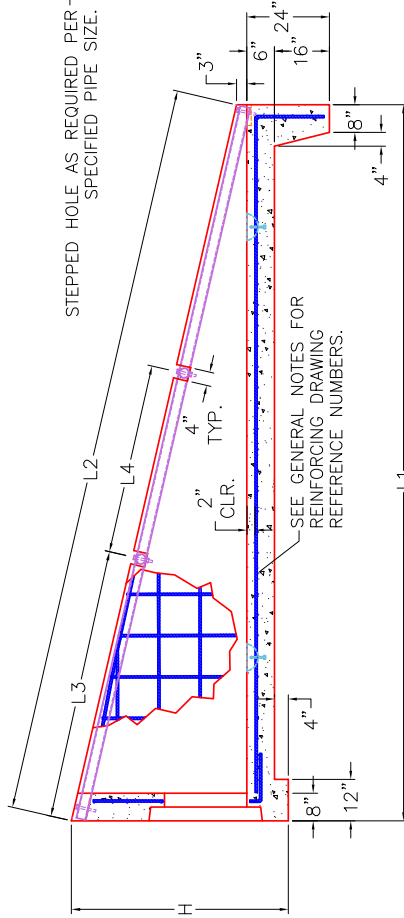
GENERAL NOTES

1. DRAWING TO BE USED FOR ALL 12" THROUGH 48" SIDE DRAIN CONCRETE ENDWALLS. MANUFACTURING FOR CROSS DRAINS ONLY.
2. CONCRETE: $F_c' = 4,500$ PSI @ 28 DAYS.
3. REINFORCING STEEL: ASTM A615, $F_y=60,000$ PSI. SEE STD. DWGS D-PE-15A, D-PE-18, D-PE-24A, D-PE-30A, D-PE-36A, D-PE-42A & D-PE-48A FOR BILL OF STEEL.
4. SPLICING OF REINFORCEMENT IS ACCEPTABLE PROVIDED THAT A MINIMUM 21" SPLICE LENGTH IS USED.
5. APPROPRIATE SIZING AND LOCATIONS OF THE LIFTING INSERTS WILL BE THE RESPONSIBILITY OF INFRASTRUCTURE PRECAST, INC.
6. LIFTING INSERT POCKETS SHALL BE GROUTED ON SITE BY THE CONTRACTOR AFTER THE ENDWALL IS SET TO THE CONTRACTOR'S REQUIREMENTS.
7. DIMENSIONAL AND REINFORCING TOLERANCES WILL BE AS SHOWN IN STANDARD OPERATING PROCEDURE (SOP) 5-3.
8. PIPE OPENINGS FOR HEADWALLS ARE BASED ON REINFORCED CONCRETE PIPE WITH TYPE "B" WALL AS PER AMERICAN CONCRETE PIPE ASSOCIATION (ACPA). OUTSIDE DIAMETER + 3" - 4". TOE WALL BACK SLOPE MAY BE CONSTRUCTED VARIABLE FROM VERTICAL UP TO 15'.

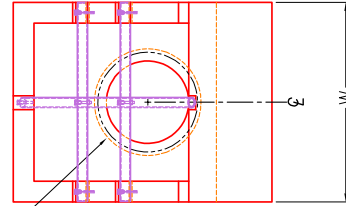
Customer: Rinker Underground
 Project: TDOT EW's
 TDOT PIN#: 207036.00
 State Project#: 79LPLM-F3-034



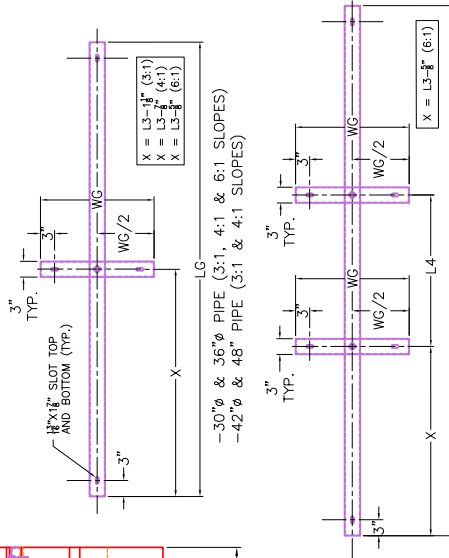
PLAN VIEW



SECTION A-A



ELEVATION B-B



STEEL PIPE GRATE PLAN VIEWS

(SEE D-PE-99 FOR MOUNTING STEEL GRATES)

*Pipe grates supplied by others

PIPE DIA. (D)	CONCRETE ENDWALL DIMENSIONS				GRATE DISPLACEMENT DIMENSIONS				STRUCT. STEEL		WEIGHT	
	H	W	L1	L2	L3	L4	L3	L4	LBS.	LBS.	LBS.	LBS.
15"	2'-11"	2'-8"	8'-0"	8'-3"	N/A	N/A	N/A	N/A	N/A	N/A	3,484	3,484
18"	3'-2"	2'-11"	8'-8"	8'-11"	N/A	N/A	N/A	N/A	N/A	N/A	4,228	4,228
24"	3'-9"	3'-6"	11'-0"	11'-4"	N/A	N/A	N/A	N/A	N/A	N/A	6,303	6,303
30"	4'-5"	4'-1"	13'-8"	14'-1"	6'-1"	N/A	N/A	N/A	N/A	137	9,083	9,083
36"	5'-0"	4'-8"	16'-0"	16'-3"	8'-2"	N/A	N/A	N/A	160	12,058	12,058	12,058
42"	5'-6"	5'-3"	18'-0"	18'-6"	9'-2"	N/A	N/A	N/A	180	15,073	15,073	15,073
48"	6'-1"	5'-10"	20'-4"	20'-11"	10'-3"	N/A	N/A	N/A	203	18,910	18,910	18,910

PIPE DIA. (D)	CONCRETE ENDWALL DIMENSIONS				GRATE DISPLACEMENT DIMENSIONS				STRUCT. STEEL		WEIGHT	
	H	W	L1	L2	L3	L4	L3	L4	LBS.	LBS.	LBS.	LBS.
15"	2'-11"	2'-8"	6'-0"	6'-3"	N/A	N/A	N/A	N/A	N/A	N/A	2,819	2,819
18"	3'-2"	2'-11"	6'-8"	7'-0"	N/A	N/A	N/A	N/A	N/A	N/A	3,406	3,406
24"	3'-9"	3'-6"	8'-5"	8'-10"	N/A	N/A	N/A	N/A	N/A	N/A	5,011	5,011
30"	4'-5"	4'-1"	10'-5"	10'-11"	5'-2"	N/A	N/A	N/A	114	7,204	7,204	7,204
36"	5'-0"	4'-8"	12'-2"	12'-9"	6'-4"	N/A	N/A	N/A	132	9,513	9,513	9,513
42"	5'-6"	5'-3"	13'-8"	14'-4"	7'-4"	N/A	N/A	N/A	148	11,862	11,862	11,862
48"	6'-1"	5'-10"	15'-5"	16'-3"	7'-4"	N/A	N/A	N/A	167	14,838	14,838	14,838

PIPE DIA. (D)	CONCRETE ENDWALL DIMENSIONS				GRATE DISPLACEMENT DIMENSIONS				STRUCT. STEEL		WEIGHT	
	H	W	L1	L2	L3	L4	L3	L4	LBS.	LBS.	LBS.	LBS.
15"	2'-11"	2'-8"	11'-2"	11'-3"	N/A	N/A	N/A	N/A	N/A	N/A	4,737	4,737
18"	3'-2"	2'-11"	12'-8"	12'-10"	N/A	N/A	N/A	N/A	N/A	N/A	5,833	5,833
24"	3'-9"	3'-6"	16'-2"	16'-4"	N/A	N/A	N/A	N/A	N/A	N/A	8,848	8,848
30"	4'-5"	4'-1"	20'-2"	20'-3"	10'-1"	N/A	N/A	N/A	166	12,880	12,880	12,880
36"	5'-0"	4'-8"	23'-8"	23'-11"	12'-0"	N/A	N/A	N/A	217	17,186	17,186	17,186
42"	5'-6"	5'-3"	26'-8"	27'-0"	14'-3"	N/A	N/A	N/A	284	21,532	21,532	21,532
48"	6'-1"	5'-10"	30'-2"	30'-7"	17'-0"	N/A	N/A	N/A	320	27,092	27,092	27,092

PIPE DIA. (D)	CONCRETE ENDWALL DIMENSIONS				GRATE DISPLACEMENT DIMENSIONS				STRUCT. STEEL		WEIGHT	
	H	W	L1	L2	L3	L4	L3	L4	LBS.	LBS.	LBS.	LBS.
15"	2'-11"	2'-8"	8'-0"	8'-3"	N/A	N/A	N/A	N/A	N/A	N/A	3,484	3,484
18"	3'-2"	2'-11"	8'-8"	8'-11"	N/A	N/A	N/A	N/A	N/A	N/A	4,228	4,228
24"	3'-9"	3'-6"	11'-0"	11'-4"	N/A	N/A	N/A	N/A	N/A	N/A	6,303	6,303
30"	4'-5"	4'-1"	13'-8"	14'-1"	6'-1"	N/A	N/A	N/A	137	9,083	9,083	9,083
36"	5'-0"	4'-8"	16'-0"	16'-3"	8'-2"	N/A	N/A	N/A	160	12,058	12,058	12,058
42"	5'-6"	5'-3"	18'-0"	18'-6"	9'-2"	N/A	N/A	N/A	180	15,073	15,073	15,073
48"	6'-1"	5'-10"	20'-4"	20'-11"	10'-3"	N/A	N/A	N/A	203	18,910	18,910	18,910

DIMENSIONS & QUANTITIES FOR ONE ENDWALL 6:1

DIMENSIONS & QUANTITIES FOR ONE ENDWALL 3:1

STEEL PIPE GRATE DIMENSIONS

DIMENSIONS & QUANTITIES FOR ONE ENDWALL 3:1

DIMENSIONS & QUANTITIES FOR ONE ENDWALL 6:1

STEEL PIPE GRATE DIMENSIONS

DIMENSIONS & QUANTITIES FOR ONE ENDWALL 6:1

DIMENSIONS & QUANTITIES FOR ONE ENDWALL 3:1

STEEL PIPE GRATE DIMENSIONS

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DIMENSIONS & QUANTITIES FOR ONE ENDWALL 3:1

STEEL PIPE GRATE DIMENSIONS

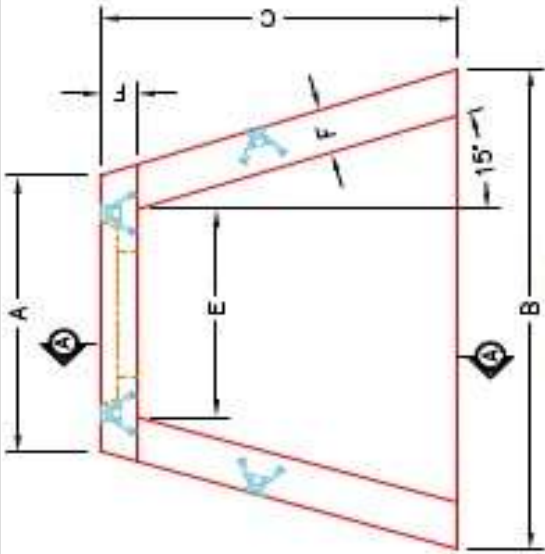


Structure ID: STM-G1

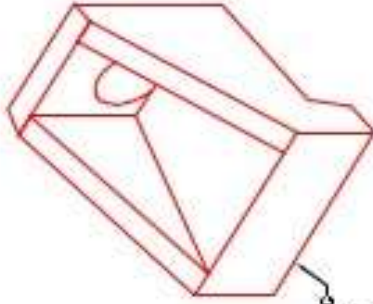
P1 HAWA15F

15" - HW AW w/FLAT BOTTOM

DIMENSIONS & QUANTITIES									
TYPE	PIPE Ø	A	B	C	D	E	F	G	WEIGHT
AW	15"	2'-8"	4'-0"	2'-6"	2'-2"	2'-0"	6"	0"	1,380 LBS.

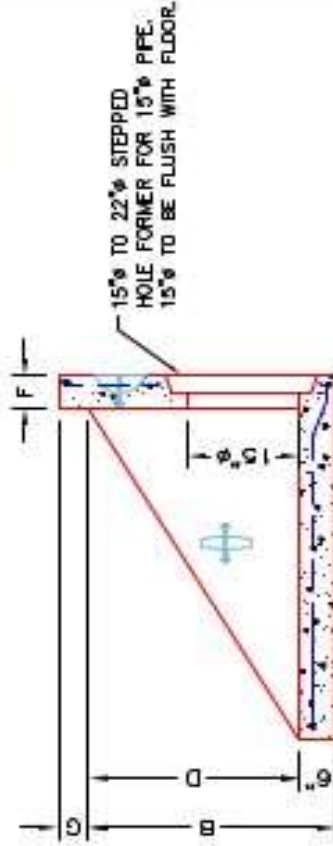


PLANVIEW

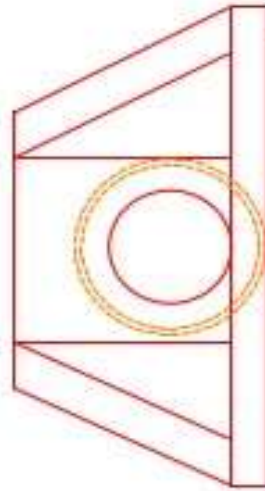


ISOMETRIC VIEW

WITH FOOTING
(SEE DETAIL)



SECTION A-A



FRONT ELEVATION

NOTES:

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

PRODUCTION WORK ORDER

QUALITY CONTROL CHECKLIST

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



DESCRIPTION: AW WINGED HEADWALL FOR 15" PIPE
CUSTOMER: STOCK
PROJECT: STOCK
STRUCTURE ID: STOCK
SALES ORDER NO: T.B.D.
CHECK: A. WELLS
DRAWING: J. HORSLEY
DATE: 09/25/24
SCALE: NTS
PG. 1 of 1

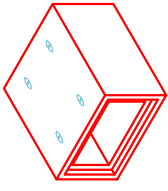
PRODUCT I.D.: HWA15F
PRODUCT VIEW: RIGHT SIDE UP
PLANT: BEAVER DAM, KY.
WEIGHT: 1,630 LBS.
TOP SECTION JOINT: N/A
BASE SECTION JOINT: N/A
QC CHECK INITIALS:



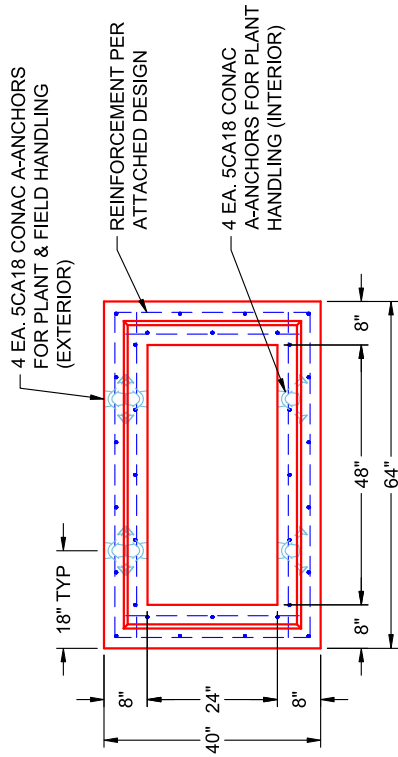
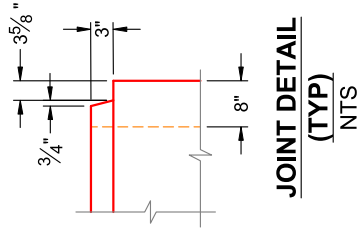
Structure ID: BC 4 x 2 (PC 17)

P1 BC048024-08WLF

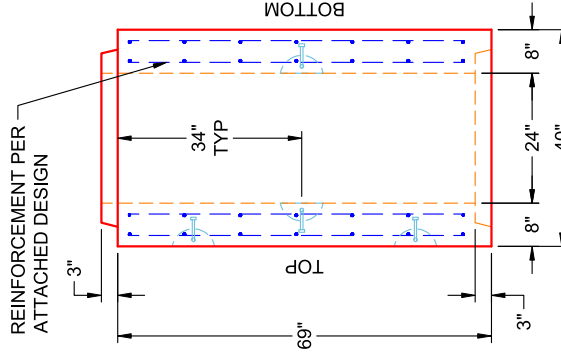
BOX CULVERT (08W/08F/08T) No Haunch G/T



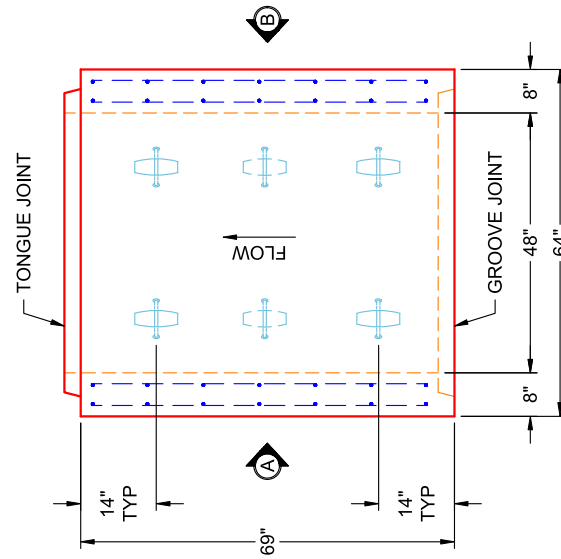
COMPONENT ISOMETRIC VIEW



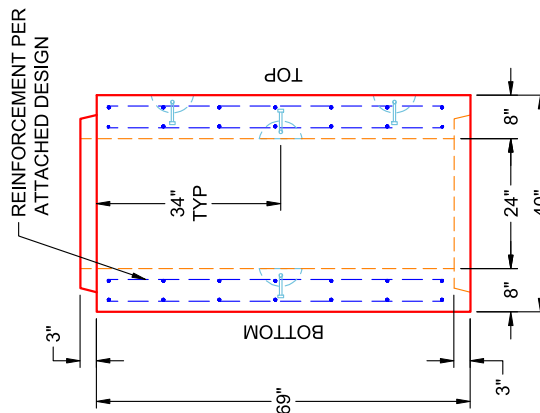
END VIEW TYPICAL



VIEW B PC 17 (UPRIGHT IN MOLD)



PLAN VIEW PC 17 (UPRIGHT IN MOLD)



VIEW A PC 17 (UPRIGHT IN MOLD)

GENERAL NOTES:

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

INFRASTRUCTURE PRECAST (ICAST)

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

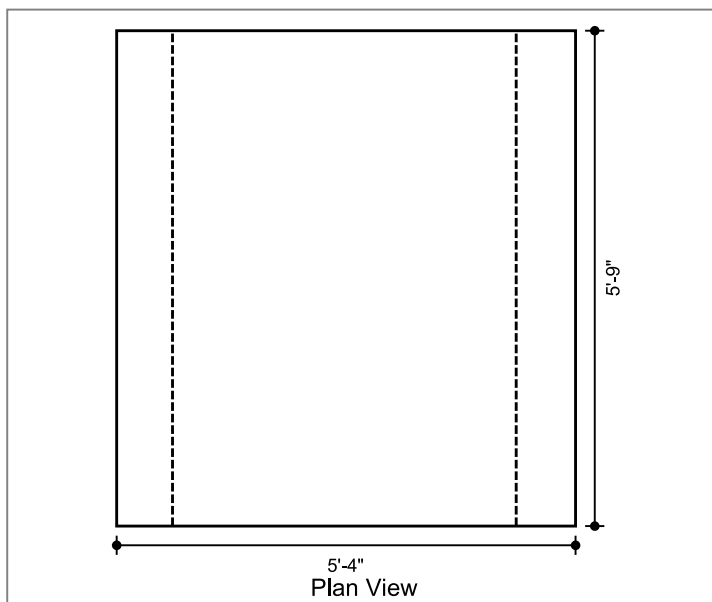
Project : Alcoa Outfall
 Task :
 Job No. : 25-2073

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

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

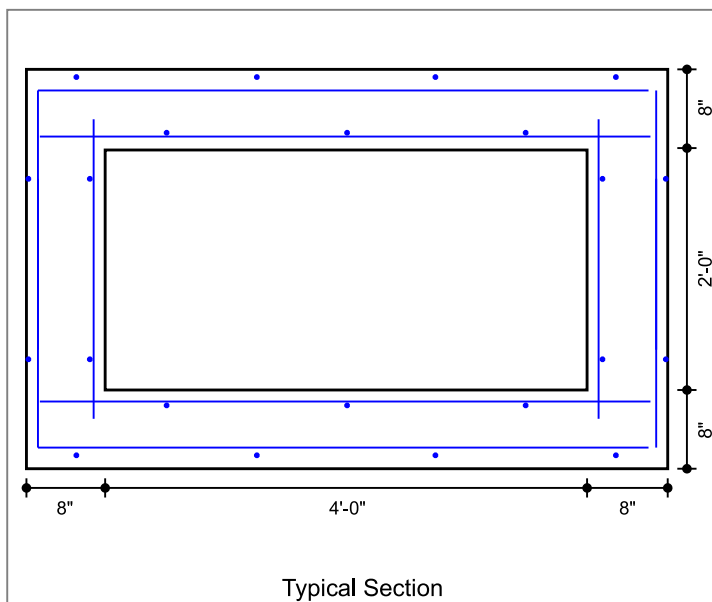
Physical Dimensions

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



Material Properties

Concrete
 Strength, f_c: 5.000 ksi
 Density: 0.150 kcf
 Elasticity, E_c: 3834 ksi
 Type: Normal wt
 Steel
 Yield, f_y: 60 ksi
 Allow Stress: 36 ksi
 Elasticity, E_s: 29000 ksi
 Soil
 Density: 0.120 kcf
 Exposure Factor
 Class 2 Exposure
 Reinforcement Covers
 Ext. Cover Top Slab: 2"
 Ext. Cover Bottom Slab: 1"
 Ext. Cover Walls: 1"
 Int. Cover Walls: 1"
 Int. Cover Top Slab: 1"
 Int. Cover Bottom Slab: 1"



Controlling Ratings

Inventory Rating: NaN
 Operating Rating: NaN

Loads

Live Load
 Vehicle Names: HL-93
 Traffic Direction: Parallel
 Eq. Height of Soil: Calculated
 Dead Load

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

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

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

INFRASTRUCTURE PRECAST (ICAST)

Sht _____ of _____

By: J. Horsley

Ck: _____

5/11/2026 4:10:17 PM

etc of 3

Project : Alcoa Outfall

Task :

Client: Bowen Engineering Co

Job No. : 25-2073

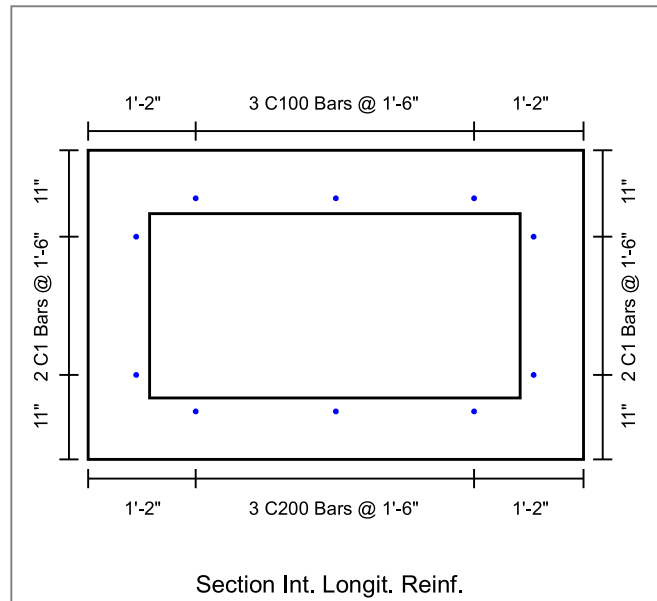
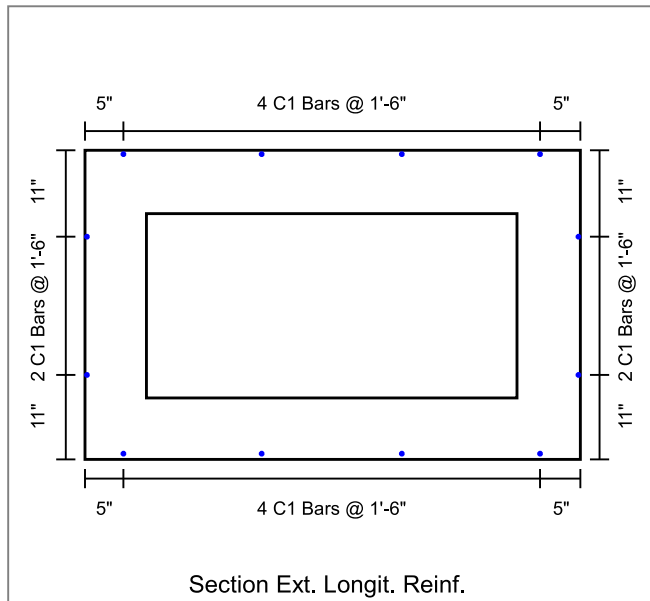
File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

Concrete Summary

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

Reinforcing Steel Bar Schedule (lb)

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



INFRASTRUCTURE PRECAST (ICAST)

Sht _____ of _____

By: J. Horsley

Ck: _____

5/11/2026 4:10:17 PM

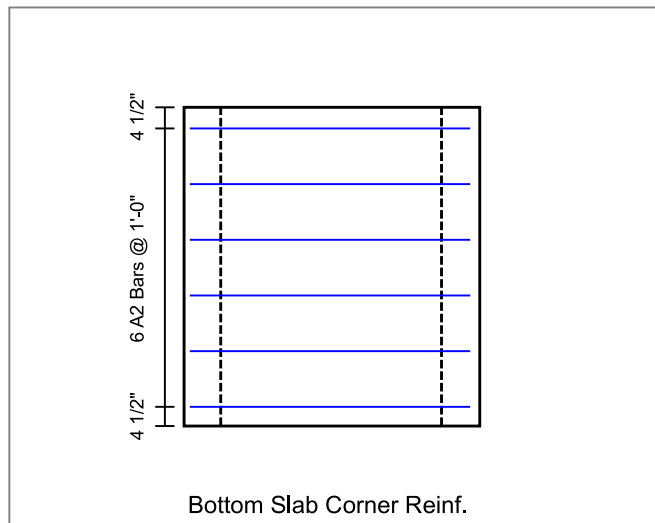
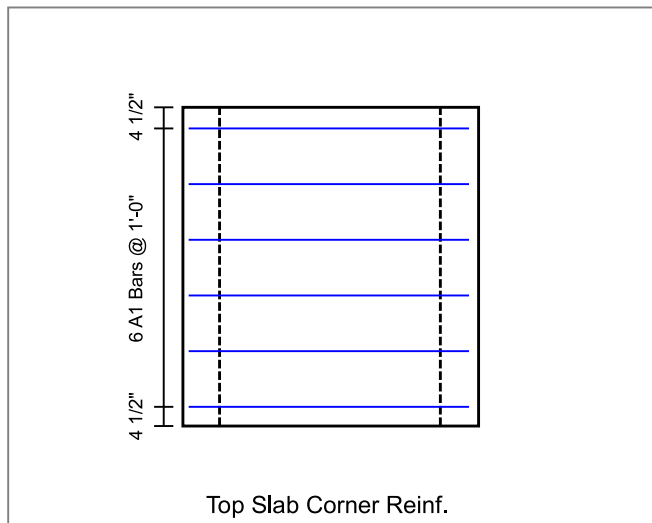
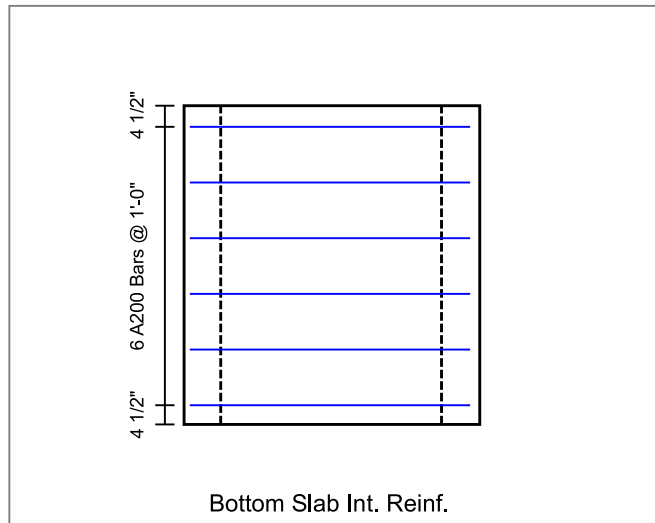
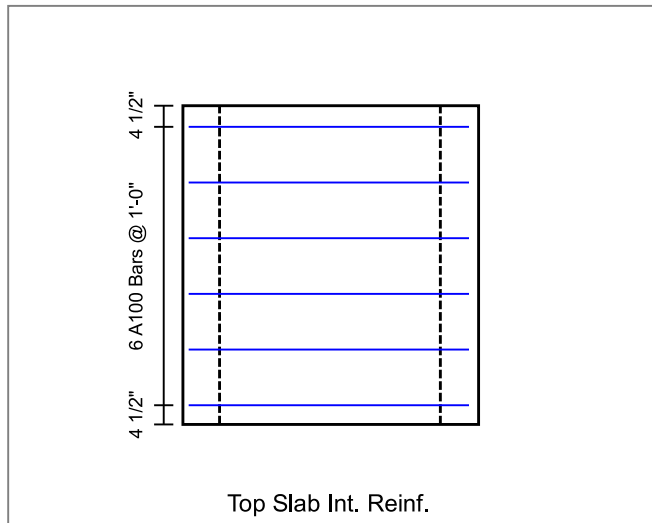
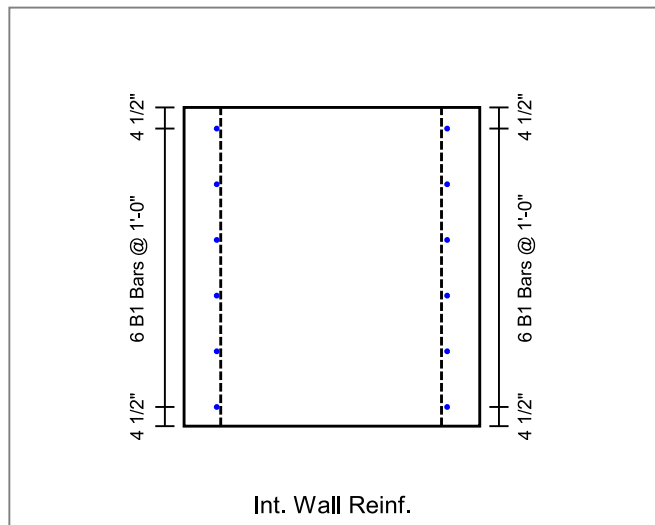
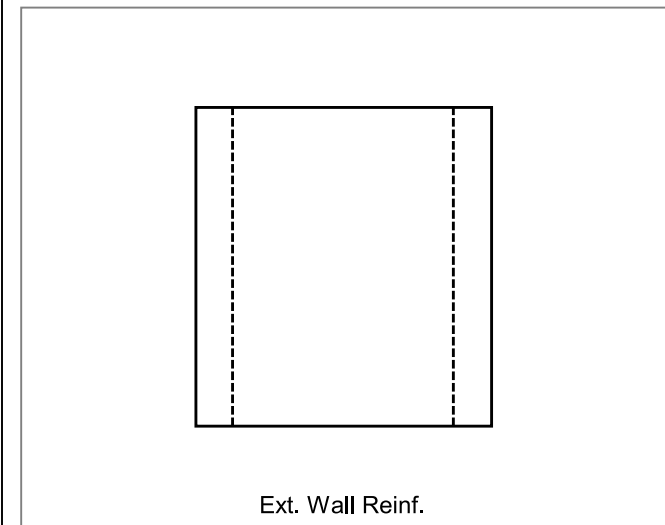
Project : Alcoa Outfall

Client: Bowen Engineering Co

Task :

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

Sheet 3 of 3

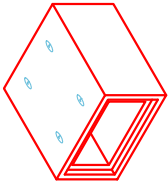




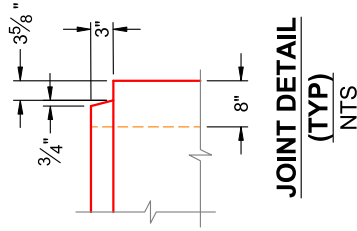
Structure ID: BC 4 x 2 (PC 15)

P1 BC048024-08WLF

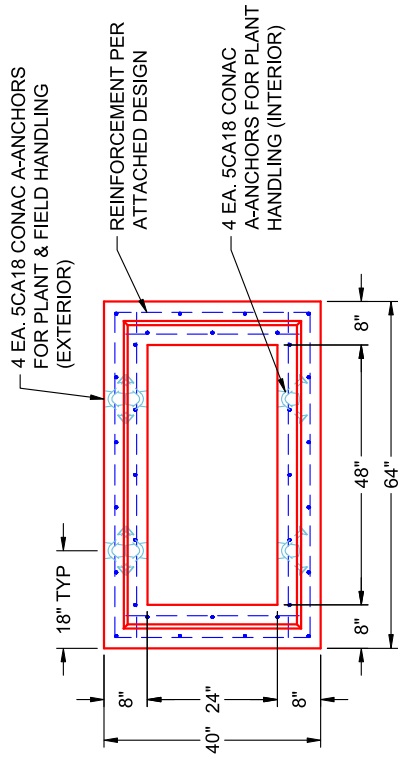
BOX CULVERT (08W/08F/08T) No Haunch G/T



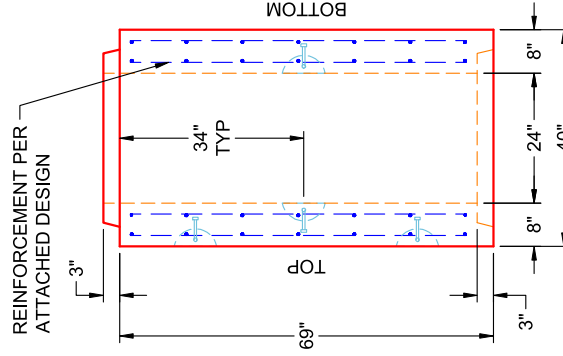
COMPONENT ISOMETRIC VIEW



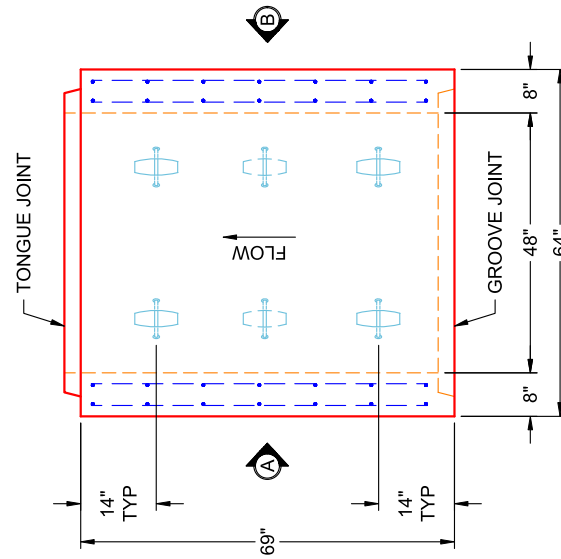
JOINT DETAIL (TYP) NTS



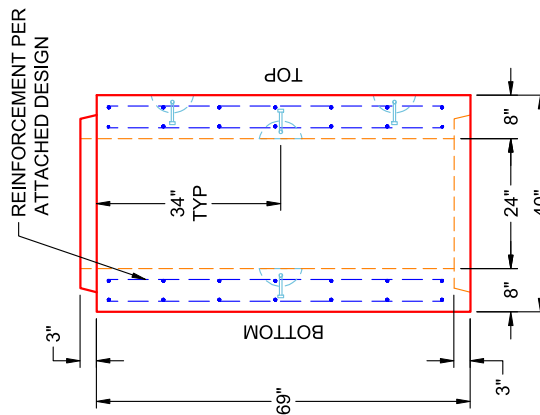
END VIEW TYPICAL



VIEW B PC 15 (UPRIGHT IN MOLD)



PLAN VIEW PC 15 (UPRIGHT IN MOLD)



VIEW A PC 15 (UPRIGHT IN MOLD)

GENERAL NOTES:

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

INFRASTRUCTURE PRECAST (ICAST)

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

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

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

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

Physical Dimensions

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

Material Properties

Concrete
 Strength, f_c: 5.000 ksi
 Density: 0.150 kcf
 Elasticity, E_c: 3834 ksi
 Type: Normal wt
 Steel
 Yield, f_y: 60 ksi
 Allow Stress: 36 ksi
 Elasticity, E_s: 29000 ksi
 Soil
 Density: 0.120 kcf
 Exposure Factor
 Class 2 Exposure
 Reinforcement Covers
 Ext. Cover Top Slab: 2"
 Ext. Cover Bottom Slab: 1"
 Ext. Cover Walls: 1"
 Int. Cover Walls: 1"
 Int. Cover Top Slab: 1"
 Int. Cover Bottom Slab: 1"

Controlling Ratings

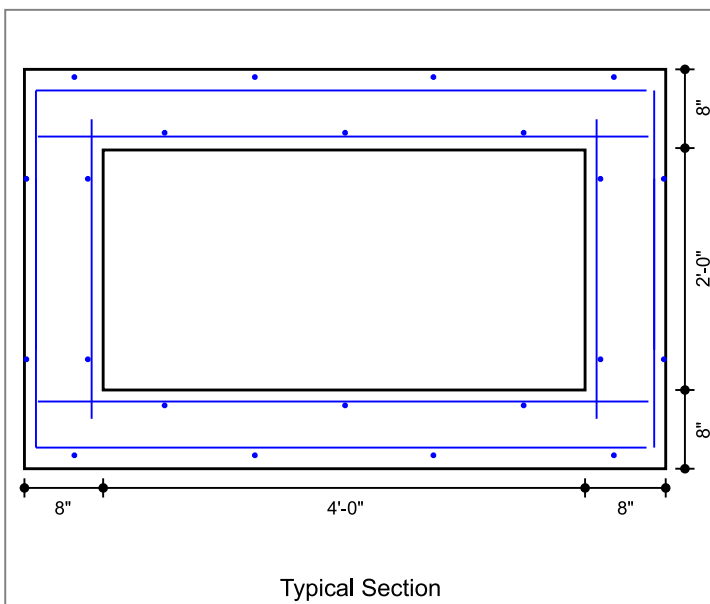
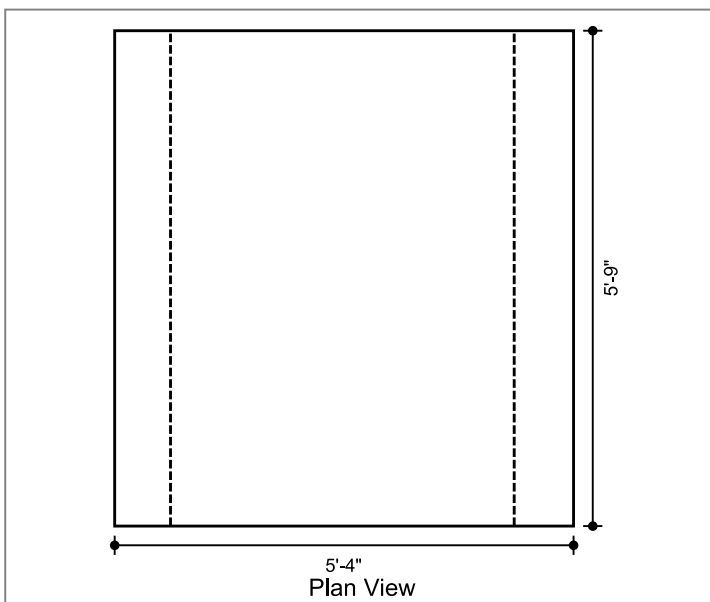
Inventory Rating: NaN
 Operating Rating: NaN

Loads

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

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

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



INFRASTRUCTURE PRECAST (ICAST)

Sht _____ of _____

By: J. Horsley

Ck: _____

5/11/2026 4:10:17 PM

etc of 3

Project : Alcoa Outfall

Task :

Client: Bowen Engineering Co

Job No. : 25-2073

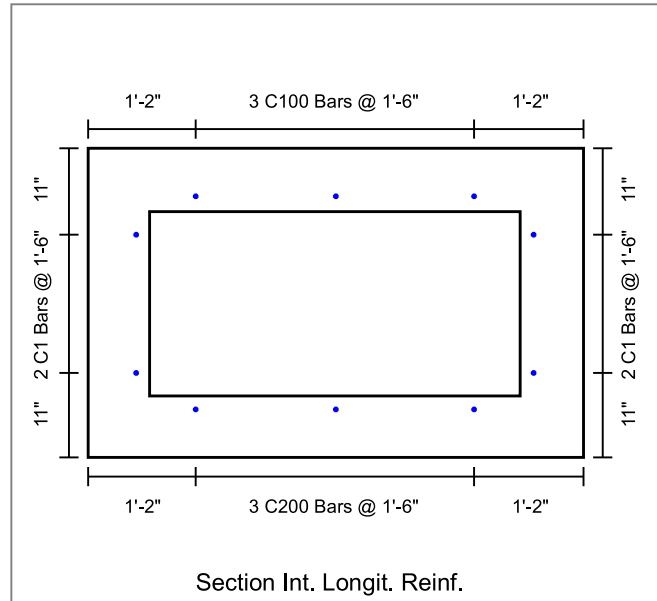
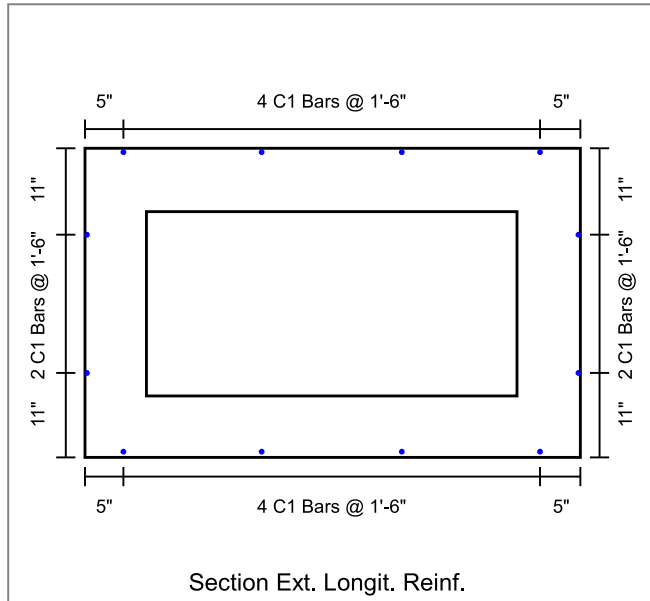
File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

Concrete Summary

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

Reinforcing Steel Bar Schedule (lb)

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



INFRASTRUCTURE PRECAST (ICAST)

Sht _____ of _____

By: J. Horsley

Ck: _____

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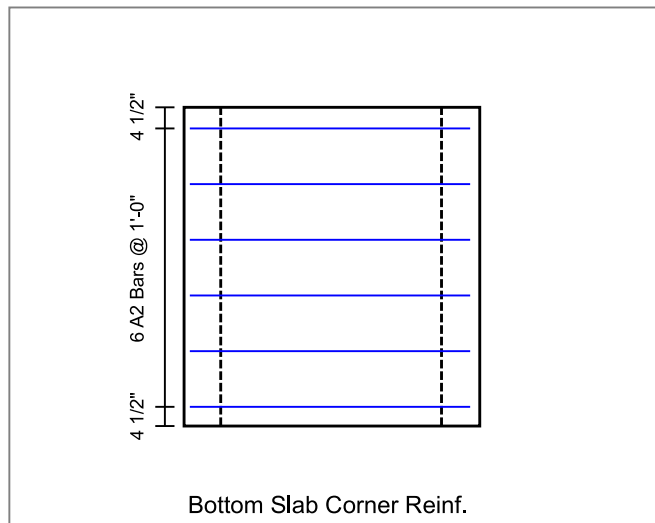
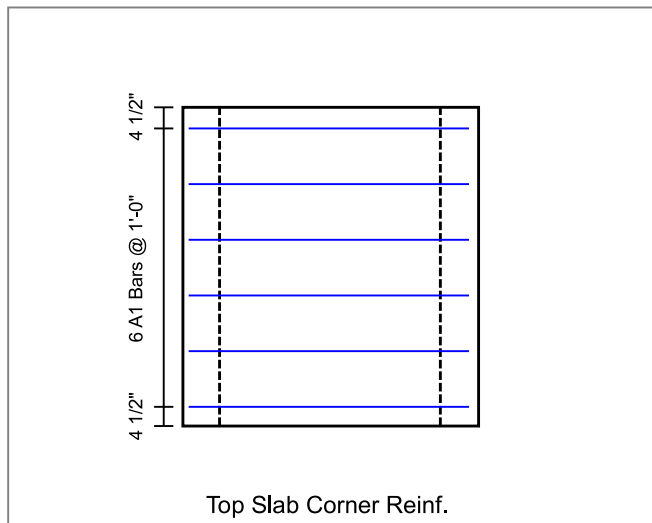
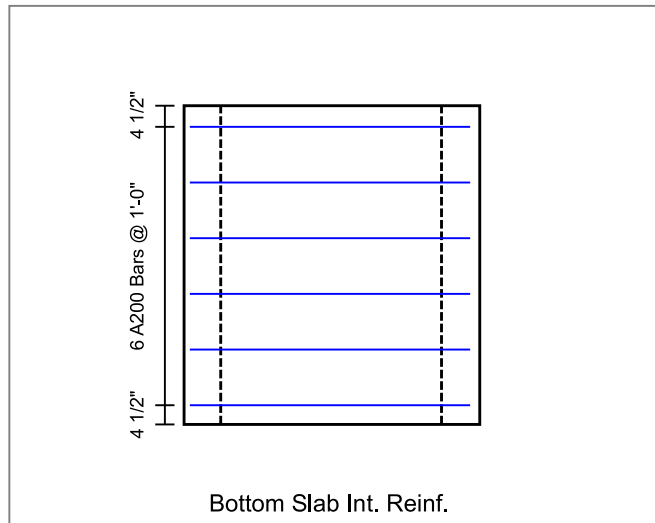
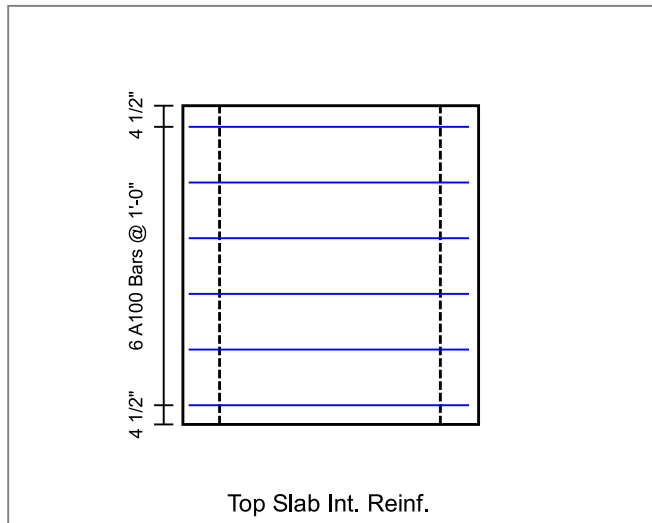
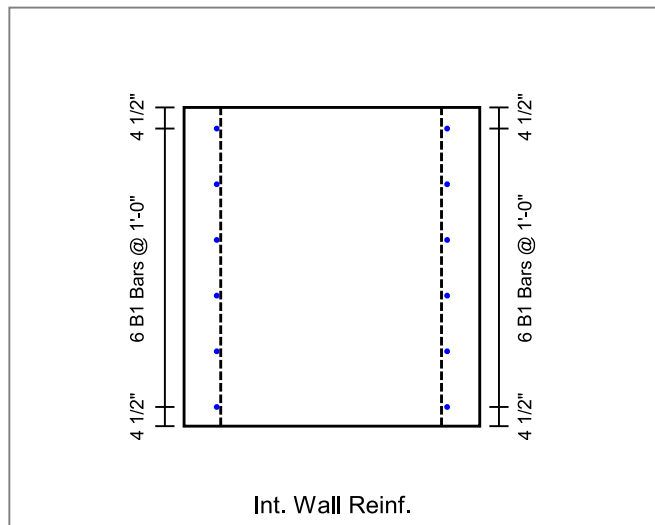
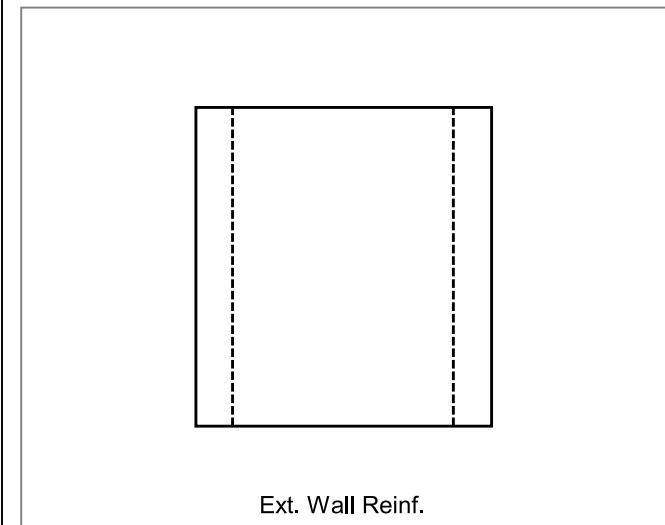
Project : Alcoa Outfall

Client: Bowen Engineering Co

Task :

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

Page 3 of 3



Job Name: 26-1368 Freeman Lake Park Parking Lot Project
 Job Location: Elizabethtown, KY
 Contractor: Kauffeld Brothers Construction

Plant: Beaver Dam
 5/28/2026 9:51:48 AM

Tech: S. Felletter
 PC: T. Ryan



Structure ID: JB #1-6 JBB

P3 BX024030-08LD08S

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

- P4) CASTING (cast in) - 0
- P3) 24" x 30" - BX FLAT LID 8inW SPEC. (KY JB-B1) F/F - 8"
- P2) 24" x 30" - BOX RISER 8inW F/G - 24"
- P1) 24" x 30" - BOX BASE 8inW, 8inF T/n - 48"
- 1) CASTING - HOE KY-206 F/C (KY TY1)
- 1) This Structure Includes a Cast-in Item
- 2) 24" x 30" - Conseal CS-102 1.00"
- 1) 24" - Conseal CS-102 1.00"
- 2) Hole - 24

0 lb
 931 lb
 2256 lb
 5139 lb
 206 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb

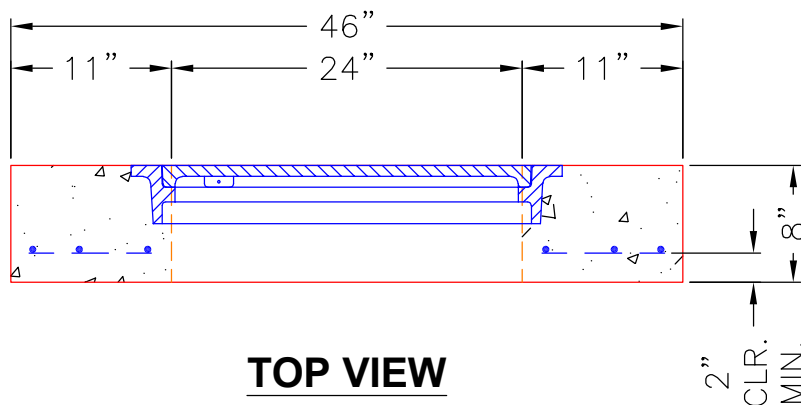
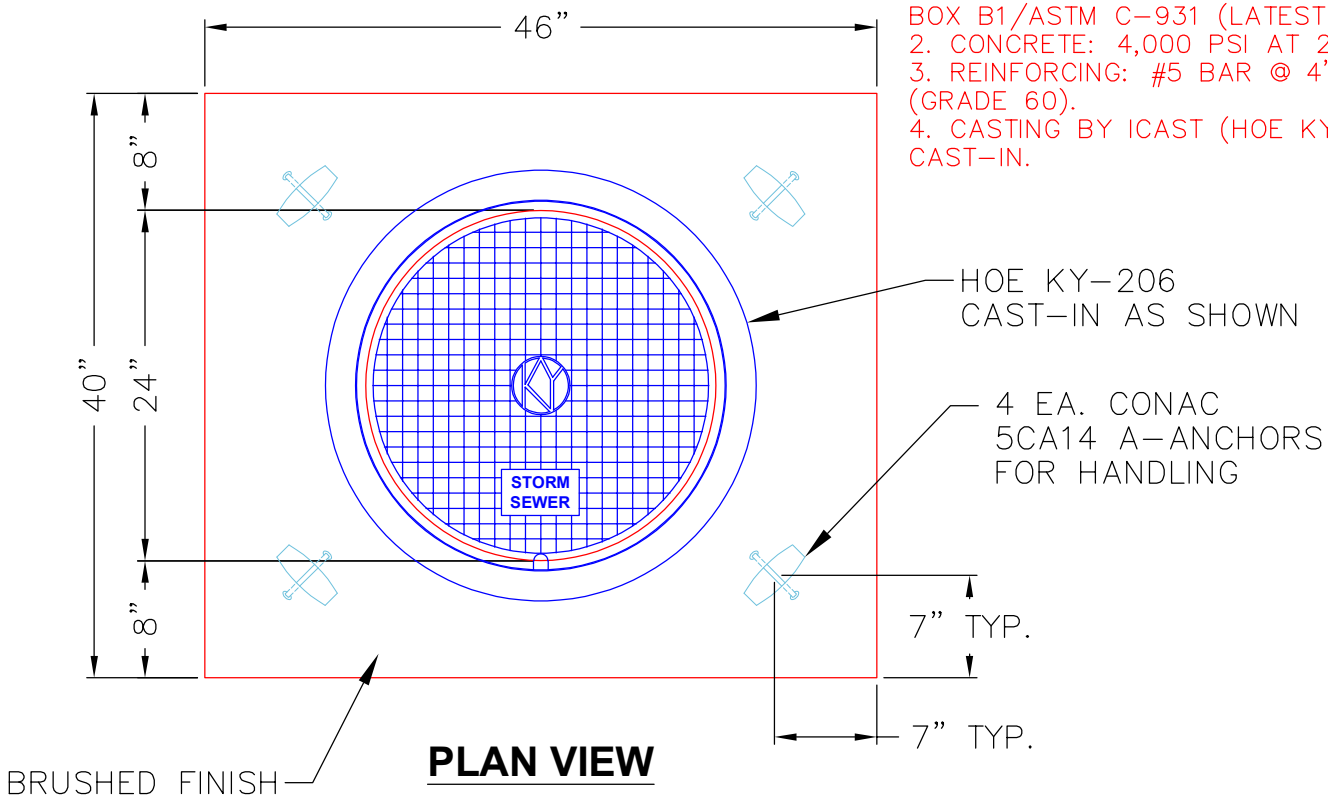
 Structure Total: 8532 lb

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

 REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As. 62) #5 BARS AT 4" C.C.E.W.
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

NOTES:

1. MANUFACTURED TO KYTC JUNCTION BOX B1/ASTM C-931 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 4" C.C. E.W. (GRADE 60).
4. CASTING BY ICAST (HOE KY-206 F/C). CAST-IN.



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 931 lb
 Volume (Net): 0.24cu.yd

Job Name: 26-1368 Freeman Lake Park Parking Lot Project
 Job Location: Elizabethtown, KY
 Contractor: Kauffeld Brothers Construction

Plant: Beaver Dam
 5/28/2026 9:51:47 AM

Tech: S. Felletter
 PC: T. Ryan



Structure ID: CI #3-4 CBIF

P2 BX036036-08LD08-24X24

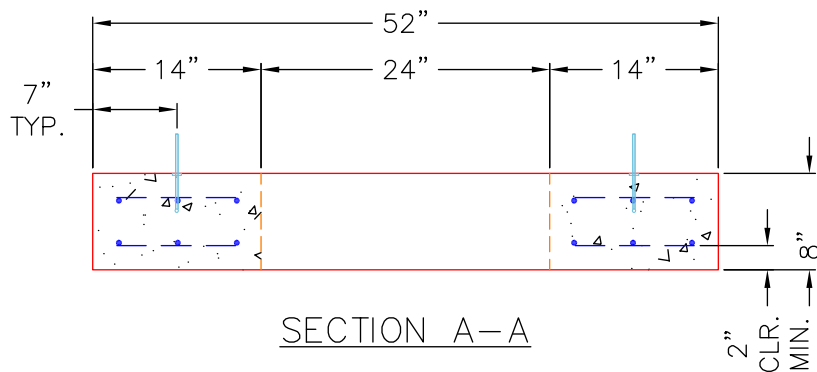
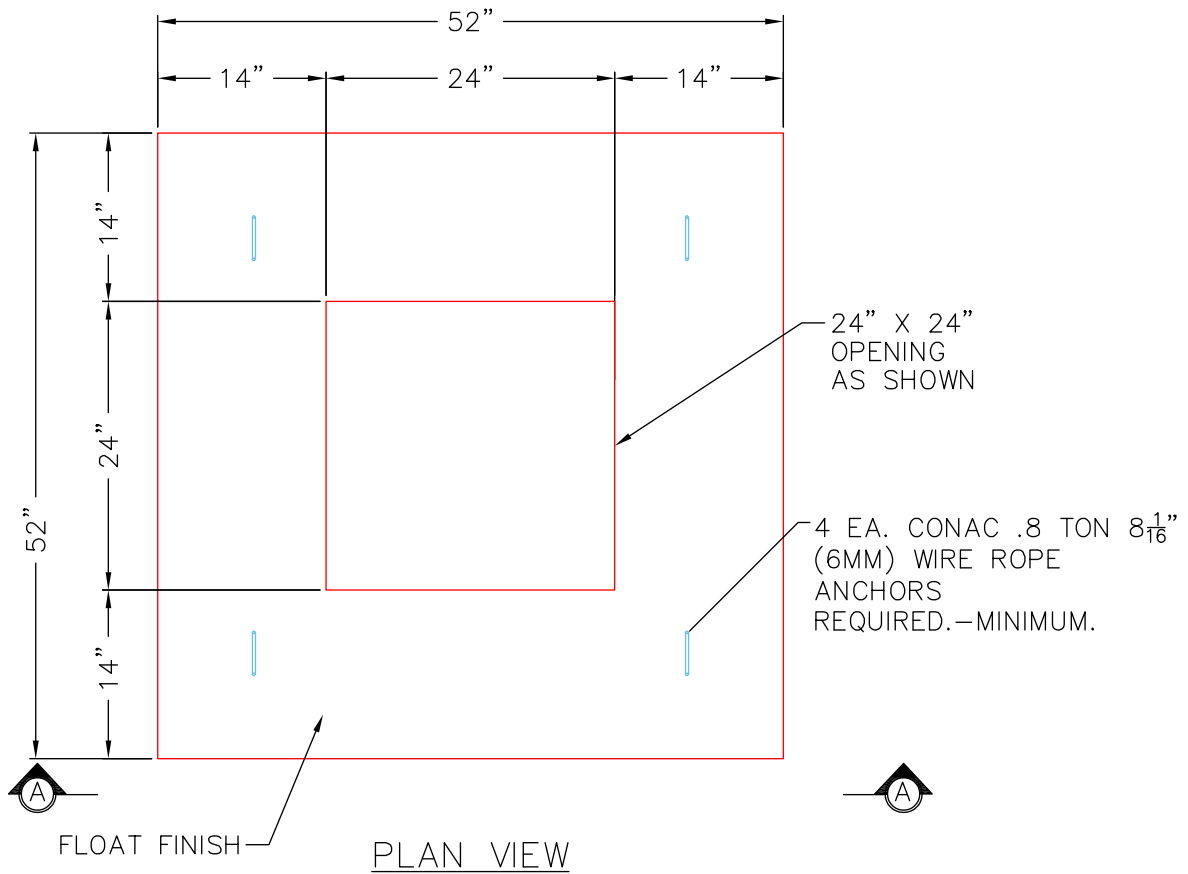
BX FLAT LID 8inW w/24"x24" HOLE F/F

- P3) 24" x 24" - CASTING HEIGHT - 5"
- P2) 36" x 36" - BX FLAT LID 8inW w/24"x24" HOLE F/F - 8"
- P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 59"
- 1) CASTING - HOE KY-465 SET (CBI TY F)
- 1) 36" x 36" - Conseal CS-102 1.00"
- 1) 24" x 24" - Conseal CS-102 1.00"
- 2) Hole - 24
- 1) Hole - 20

	0 lb
	1429 lb
	7782 lb
	465 lb
	0 lb
	0 lb
	0 lb
	0 lb
Structure Total:	9675 lb

Structure Notes:
 1. KYTC CBI TYPE F / ASTM C913 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING BY ICAST (HOE KY-465 SET).

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



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Flat	Wall Thickness: 8"	Height (Ext): 8"	Weight (Net): 1429 lb Volume (Net): 0.36cu.yd
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Job Name: 25-2600P2 - Quicktrip 7160
 Job Location: Louisville, KY
 Contractor: Cornell Harbison Excavating

Plant: Beaver Dam
 5/29/2026 8:27:28 AM

Tech: J. Coppage
 PC: J. Jarvis



Structure ID: DBI-13G - cust. top slab

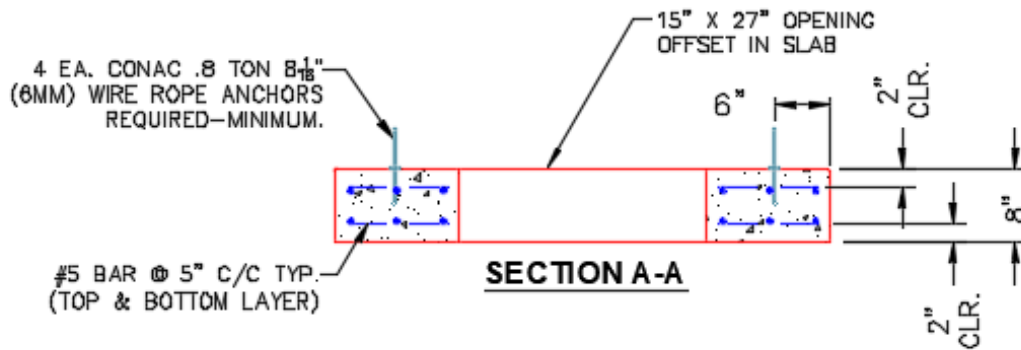
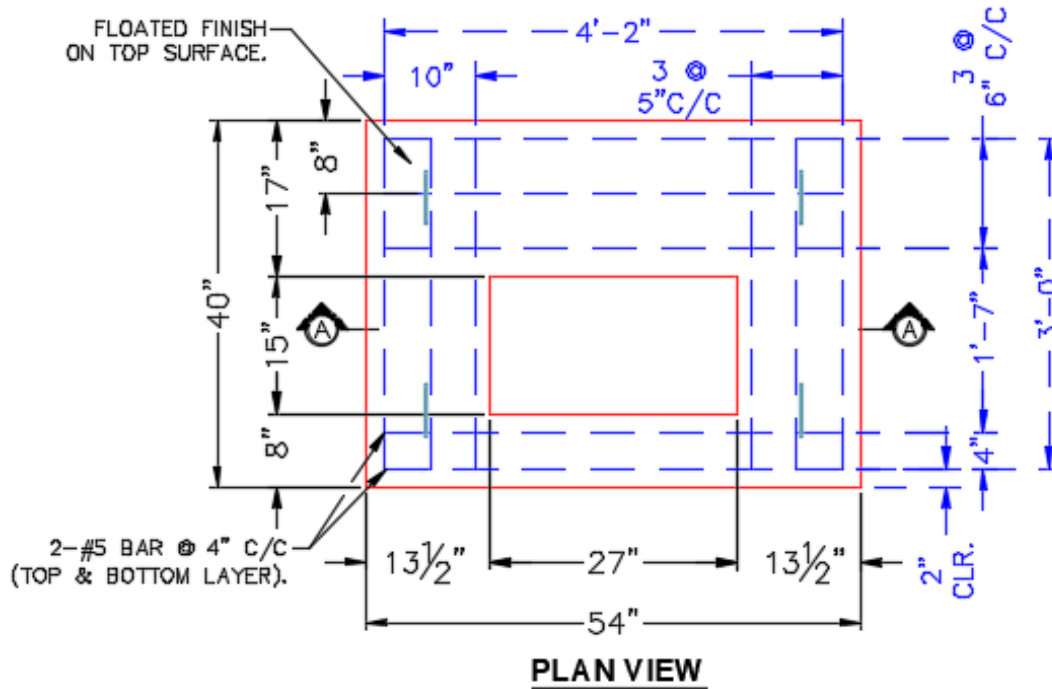
P1 CTS

Custom Top Slab 8"W w/15"x27" Hole F/F

P1) 24" x 38" - Custom Top Slab 8"W w/15"x27" Hole F/F - 8"

Structure Total: 8958 lb

Structure Notes:
 1. PER KYTC DBI-13G /ASTM C913 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING (HOE KY-230G F/G) SUPPLIED BY CONTRACTOR.
 REINFORCING PER ASTM AS615 (GRADE 60).
 - (As .62) #5 BARS AT 6" C.C.E.W. (DBL MAT)



#5 BAR CUT LIST
 10 EA. @ 50" LG.
 12 EA. @ 36" LG.

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 8"

Weight (Net): 8958 lb
 Volume (Net): 2.29cu.yd

Job Name: 25-2397B - Sandy Springs Section 2 Sanitary
 Job Location: Elizabethtown, KY 42701
 Contractor: Gary Clifford

Plant: 100

Tech: J. Horsley

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PC: T. Lewis



Structure ID: MH 1

P2 CFB

18" x 12" x 84" Footer Block F/n

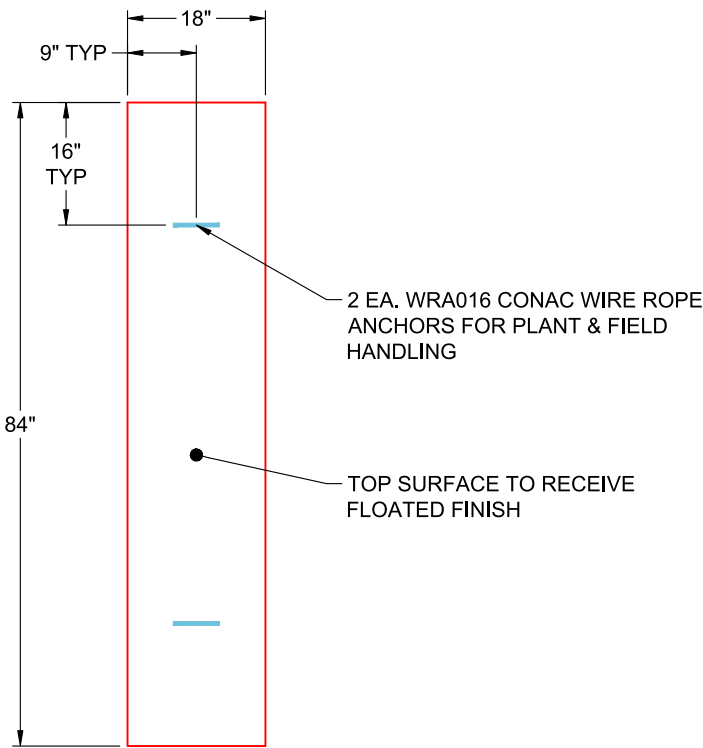
P6) 24" - CASTING HEIGHT - 7"	0 lb
P5) 48" - ECC CONE w/ 24" HOLE F/G - 30"	2050 lb
P4) 72" - MH Transition Slab 48" Hole T/G - 15"	3864 lb
P3) 72" - MH RISER Custom Ht T/F - 64"	8207 lb
P2) 72" - 18" x 12" x 84" Footer Block F/n - 12" (2 Ea.)	3046 lb (1523 lb Ea.)
P1) 72" - P.I.P. By Others - Pipe Backfill F/n - 31"	0 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-315 F/C Sanitary	258 lb
1) 72" - Conseal CS-102 1.00" (Double)	0 lb
1) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) 24" - Conseal CS-102 1.00" (Double)	0 lb
2) DOGHOUSE - 62 x 19	0 lb
1) PSX - 12-08 DD (DBL Bands)	8 lb
9) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	17425 lb

Structure Notes:

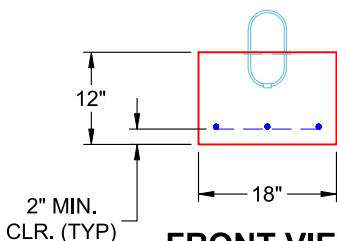
1. PER ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. LIFTERS: 2 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
5. TOP SURFACE TO RECEIVE FLOATED FINISH

Rim: 689.3' Rim to Invert: 12.69' Slack: 0.28" Sump: 7" Step Position: 270°

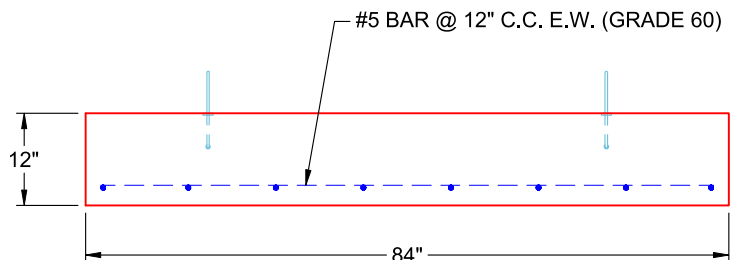
2 FOOTER BLOCKS REQUIRED FOR MH 1



**PLAN VIEW
(RIGHT SIDE UP)**



**FRONT VIEW
(RIGHT SIDE UP)**



**SIDE VIEW
(RIGHT SIDE UP)**

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

Plant: 100

5/5/2026 8:17:54 PM

Tech: Jared - F

PC: E. Bradley



Structure ID: METER VAULT - 11

P2 BX4884-06LD08-SP

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

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

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

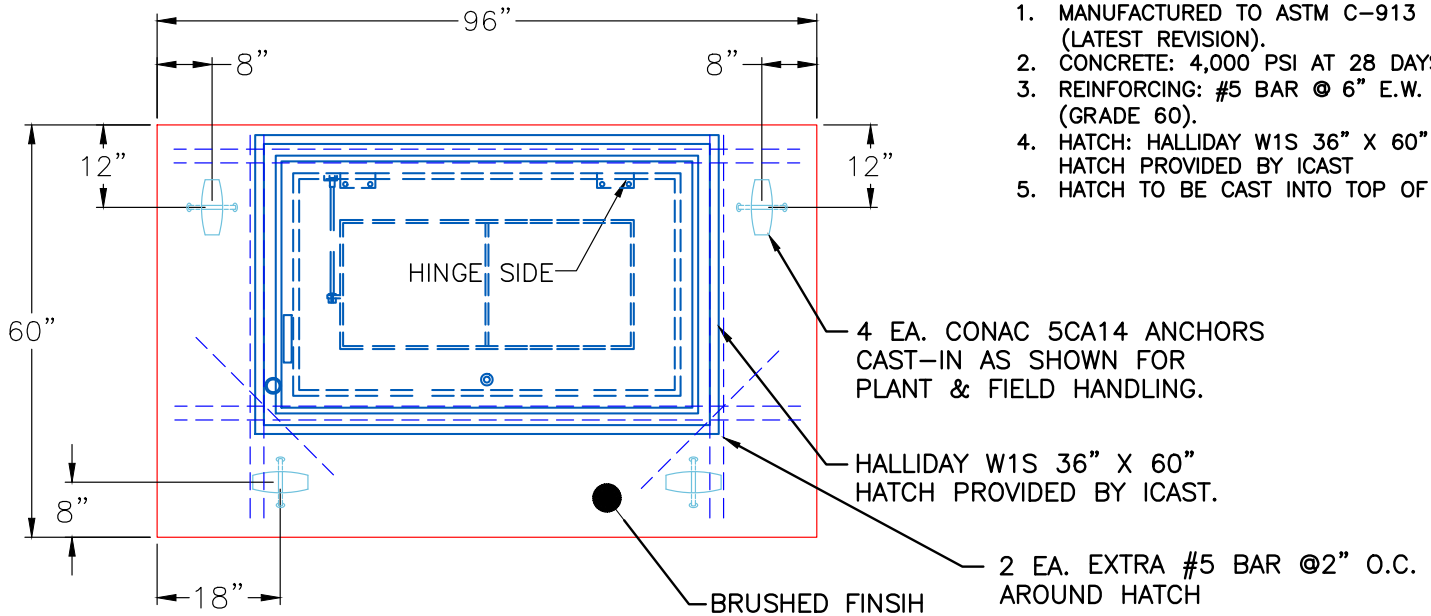
 Structure Total: 13334 lb

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

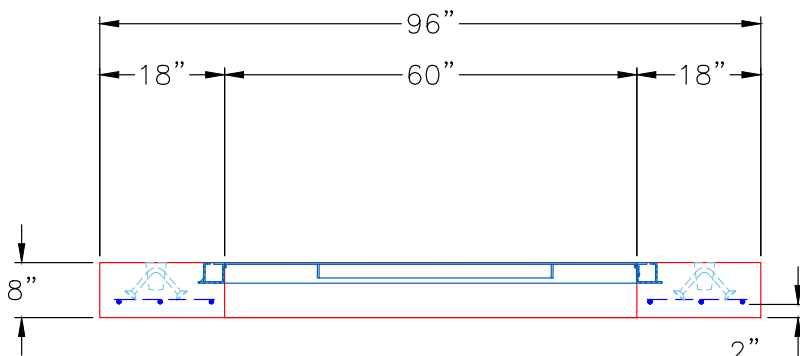
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

GENERAL NOTES:

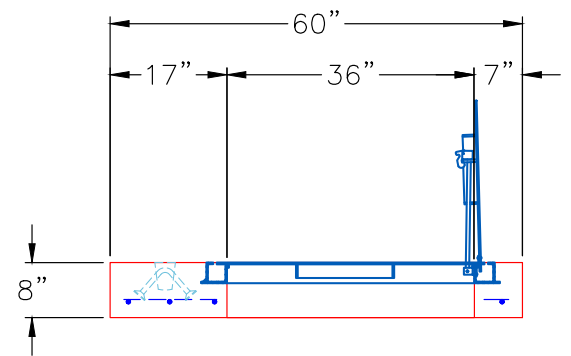
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 6" E.W. O.C. (GRADE 60).
4. HATCH: HALLIDAY W1S 36" X 60" HATCH PROVIDED BY ICAST
5. HATCH TO BE CAST INTO TOP OF LID.



PLAN VIEW



FRONT VIEW



RIGHT VIEW

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 8"

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