

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

Plant: 100
 5/29/2026 8:45:52 AM

Tech: Jared - A
 PC: A. Chambers



Structure ID: AA-4 - AF-1

P2 MH048LD07-24X36RECT

MH FLAT TOP w/24"x36" Hole F/F

- P3) 24" x 36" - CASTING HEIGHT - 6"
- P2) 48" - MH FLAT TOP w/24"x36" Hole F/F - 7"
- P1) 48" - MH BASE F/n - 42"
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 2) Hole - 32
- 1) Hole - 26
- 3) MH Step ML-10-TDS-NCR - 10"

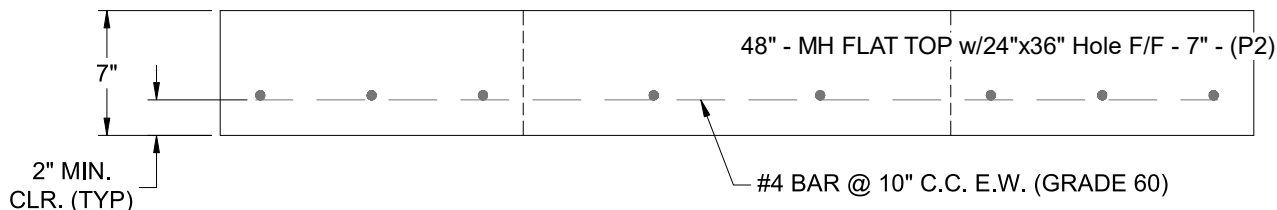
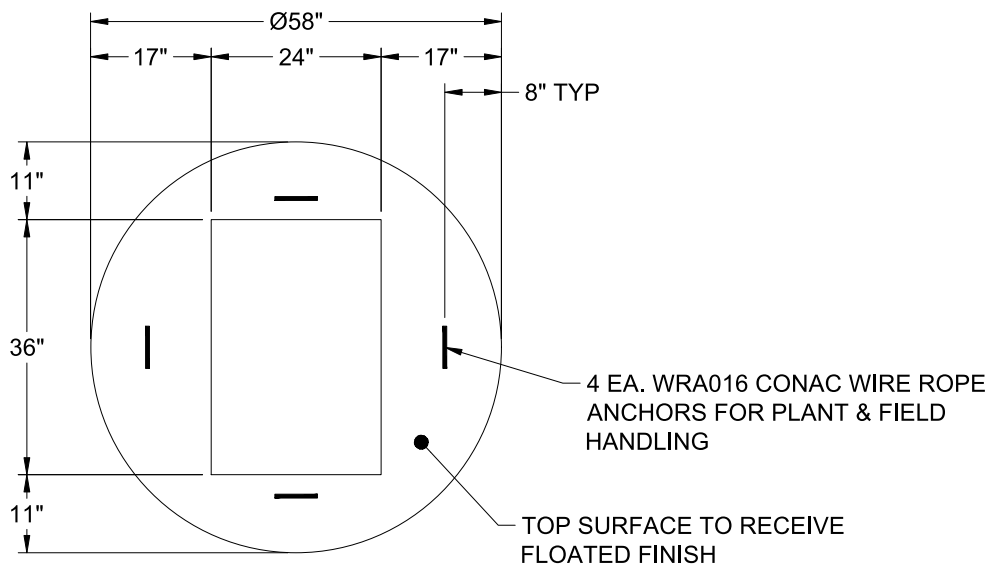
0 lb
 1044 lb
 3304 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb

 4349 lb

Structure Total:

Structures Notes:

1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: #4 BAR @ 10" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. HOE-525 FRAME, GRATE, & CURB HOOD SUPPLIED BY OTHERS
5. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
6. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 5"

Height (Ext): 7"

Weight (Net): 1044 lb
 Volume (Net): 0.27cu.yd

Job Name: 25-4726 Omega Fitness
 Job Location: Newbern, TN
 Contractor: Ainsworth Land Development, LLC

Plant: Beaver Dam
 5/28/2026 1:57:22 PM

Tech: S. Felletter
 PC: T. Lewis



Structure ID: DS-4

P2 MH048LD07

MH FLAT TOP w/ 24" Center Hole F/F

- P3) 24" - CASTING HEIGHT - 4"
- P2) 48" - MH FLAT TOP w/ 24" Center Hole F/F - 7"
- P1) 48" - MH BASE Custom Ht F/n - 26"
- 1) CASTING - JBS 1072 F/C STORM
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" - Conseal CS-102 1.00"
- 2) Hole - 24"

0 lb
 1700 lb
 2752 lb
 250 lb
 0 lb
 0 lb
 0 lb
 0 lb

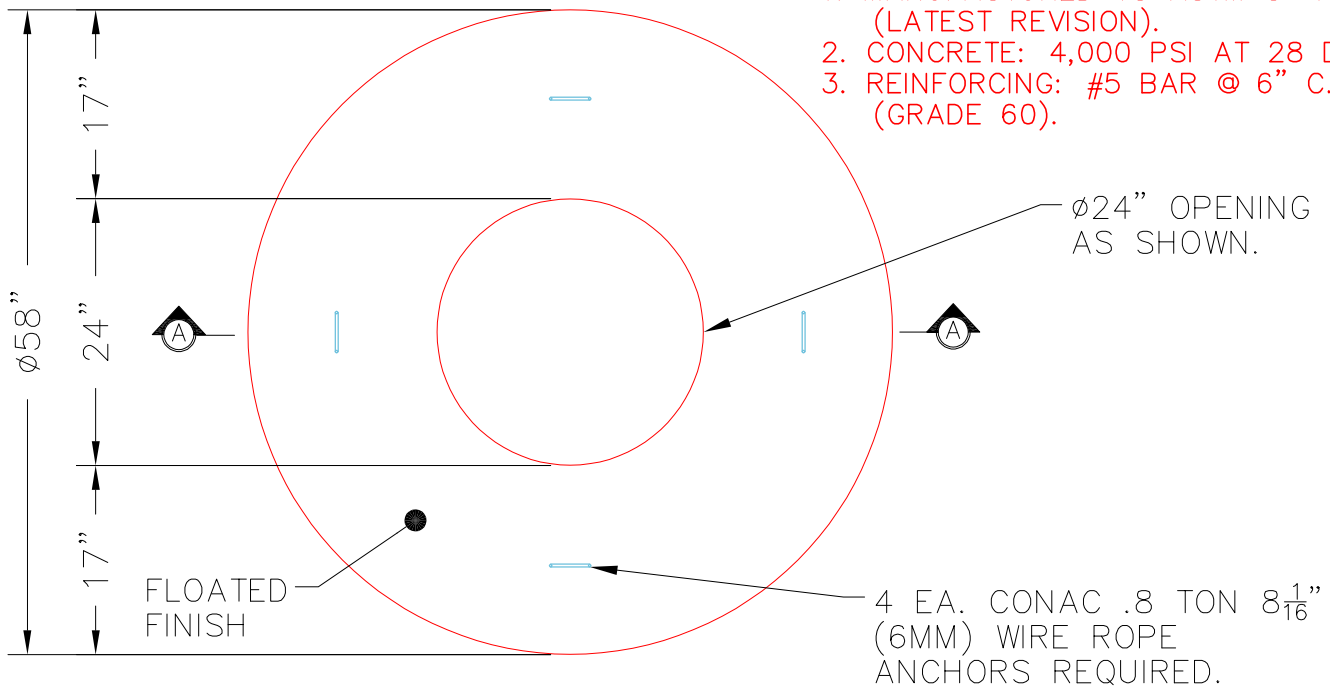
 Structure Total: 4702 lb

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING BY ICAST (JBS 1072 F/C "STORM").

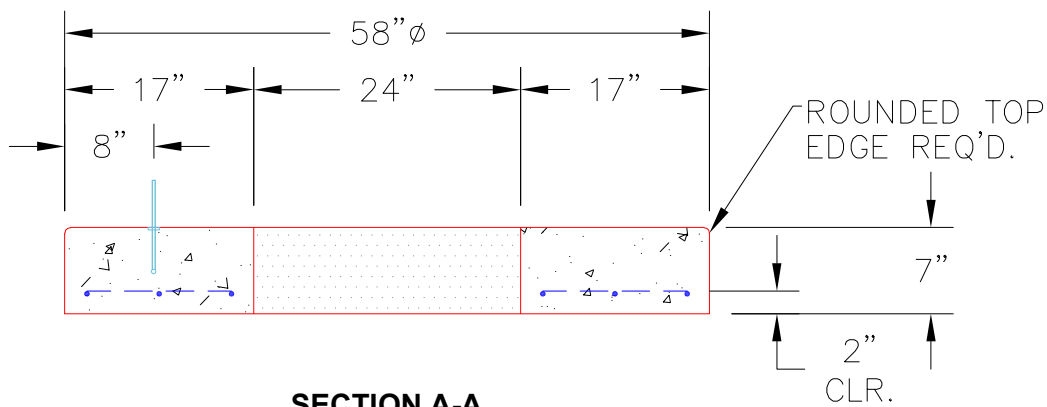
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

NOTES:

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



PLAN VIEW



SECTION A-A

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 5"

Height (Ext): 7"

Weight (Net): 1700 lb
 Volume (Net): 0.42cu.yd

Job Name: 25-4726 Omega Fitness

Plant: Beaver Dam

T. Level



Job Location: Newbern, TN

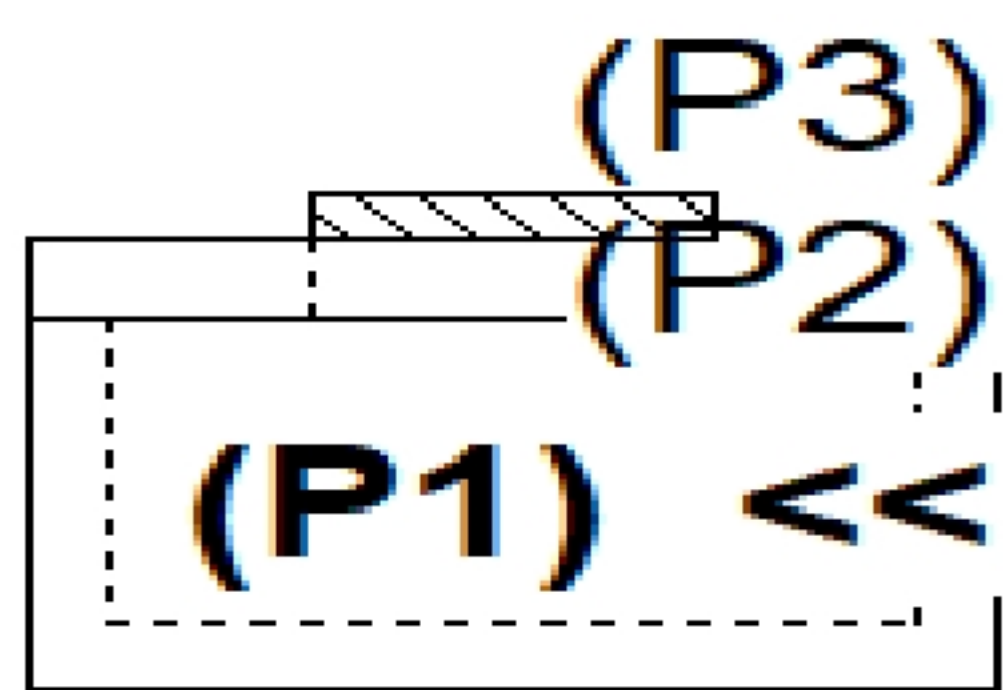
Structure ID: DS-4

Manufacturer: BAVP MH BASE Custom Ht F/n

- P3) 24" CASTING HEIGHT - 470 lb
- P2) 48" - MH FLAT TOP w/ 24" Center Hole - 700 lb
- P1) 48" - MH BASE Custom Ht F/n 252 lb
- 1) CASTING - JBS 1072 F/C STORAGE 150 lb
- 1) 48" - Conseal CS-102 1.00" 0 lb
- 1) 24" - Conseal CS-102 1.00" 0 lb

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28

Position	Elv	Angle	Invert Stack (ft)	Structure Total	Weight (lb)	Connectors	Hole	Horz Size	Up (")	Offset
Invert 1	325.6'	0°	0"	18" ADS N-12	22	Hole 24	24"	25.133"	0"	0"
Invert 2	325.7'	195°	98.698'	18" ADS N-12	22	Hole 24	24"	25.133"	1.2"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



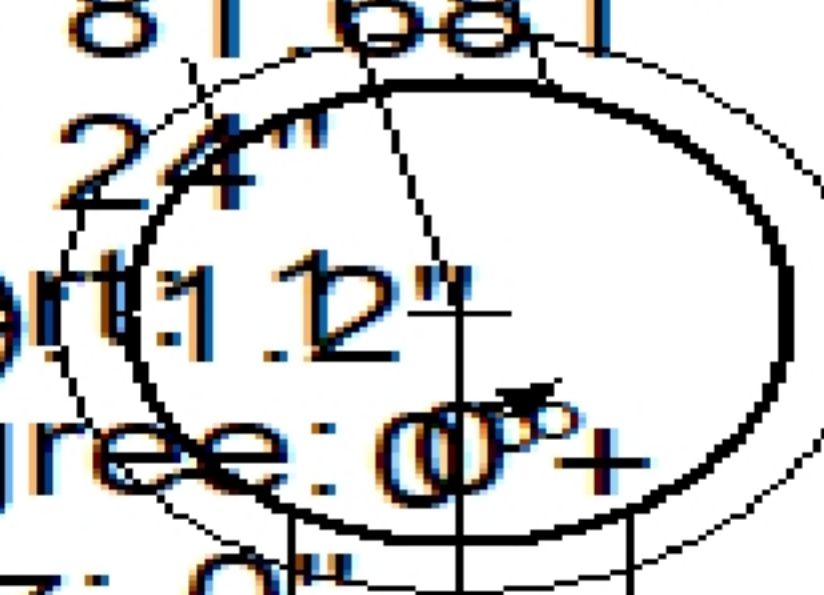
RIGHT-SIDE UP

Invert: 2
 Degree: 195°
 Horz: 81.681"
 Hole: 24"
 Invert Up(_): 1.2"
 Degree: 0°
 Horz: 0"
 Hole: 24"
 Up(_): 0"

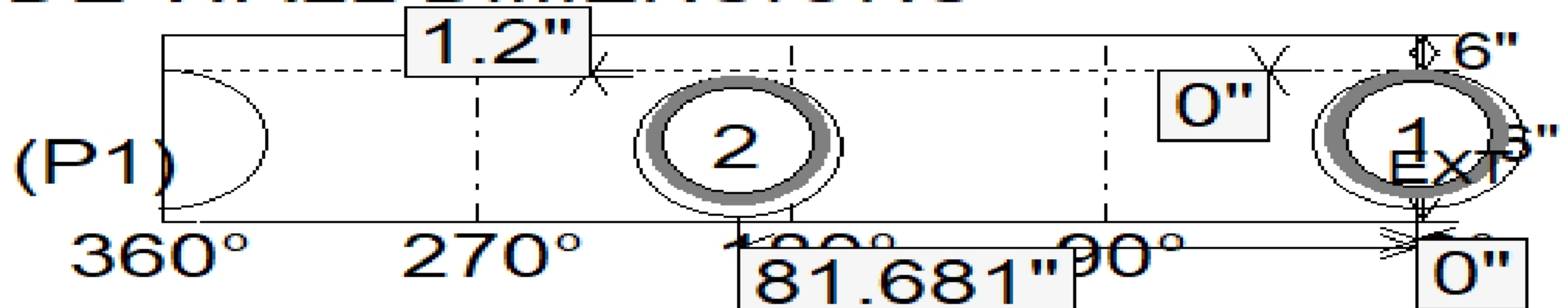


UPSIDE-DOWN

Invert: 2
 Degree: 195°
 Horz: 81.681"
 Hole: 24"
 Invert Up(_): 1.2"
 Degree: 0°
 Horz: 0"
 Hole: 24"
 Up(_): 0"



INSIDE WALL DIMENSIONS



Coating (Int):

Seam Up: Flat Height 5' Weight 6' (Net)

Coating (Ext):

Seam Dn: Floor Height 6' Weight 8' (Net)

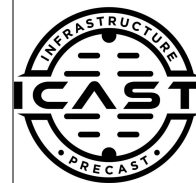
Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2
 Job Location: Danville, KY
 Contractor: Hubert Excavating & Contracting

Plant: 100

6/3/2026 3:01:03 PM

Tech: J. Horsley

PC: C. Goff



Structure ID: MH A7

P3 MH048RS72S

MH RISER w/COATING T/G

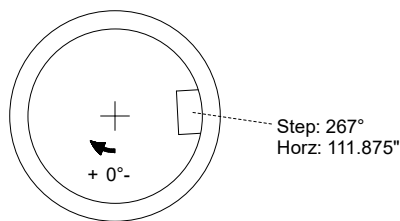
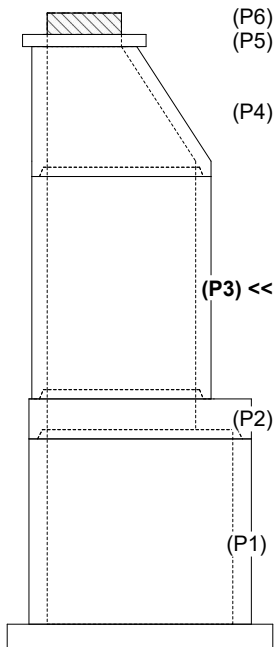
P6)	24" - CASTING HEIGHT - 7"	0 lb
P5)	24" - GRADE RING F/F - 4"	270 lb
P4)	48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42"	3116 lb
P3)	48" - MH RISER w/COATING T/G - 72"	5030 lb
P2)	60" - MH Trans. Slab - 48" Hole ECC, w/Coating T/G - 13"	1928 lb
P1)	60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 60"	9231 lb
1)	60" - MH INVERT CHANNEL - FULL HEIGHT	2692 lb
1)	JOINT WRAP - 12" WD x 060° MAC WRAP	0 lb
1)	SPECIAL EXTERNAL COATING - Carboline 300M	0 lb
1)	SECONDARY POUR - Extended Flange	0 lb
2)	JOINT WRAP - 12" WD x 048° MAC WRAP	0 lb
1)	60" - Conseal CS-102 1.00" (Double)	0 lb
2)	48" - Conseal CS-102 1.00" (Double)	0 lb
2)	24" - Conseal CS-102 1.00" (Double)	0 lb
2)	A-Lok - 1040	2 lb
15)	MH Step ML-10-TDS-NCR - 10"	0 lb
	292.89 SqFt) Carboline Bitumastic 300M [EXT]	0 lb
	Structure Total:	22269 lb

Structure Notes:
 1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. CARBOLINE 300M EXTERIOR COATING REQUIRED
 5. STEPS AT 267 DEGREES
 6. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS

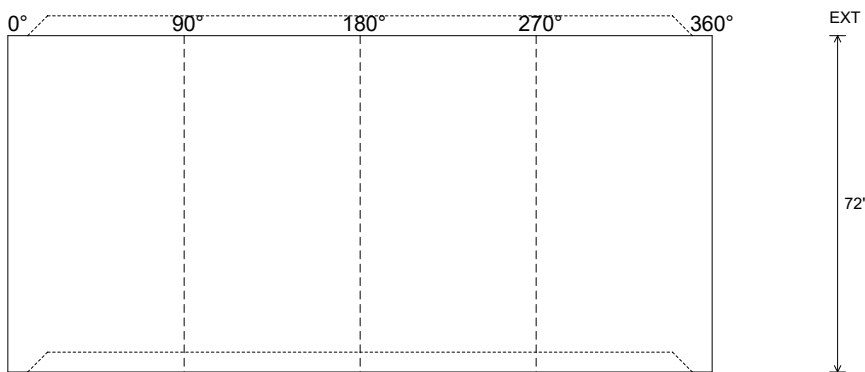
Rim: 904.32' Rim to Invert: 16.445' Slack: 1.555" Sump: 2.215" Step Position: 267°

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): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 5" Floor Height: 0"	Height (Int): 72" Height (Ext): 72"	Weight (Net): 5030 lb Volume (Net): 1.28cu.yd
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Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A7

Note:

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

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2
 Job Location: Danville, KY
 Contractor: Hubert Excavating & Contracting

Plant: 100

6/3/2026 3:01:25 PM

Tech: J. Horsley

PC: C. Goff



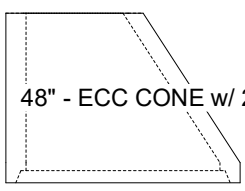
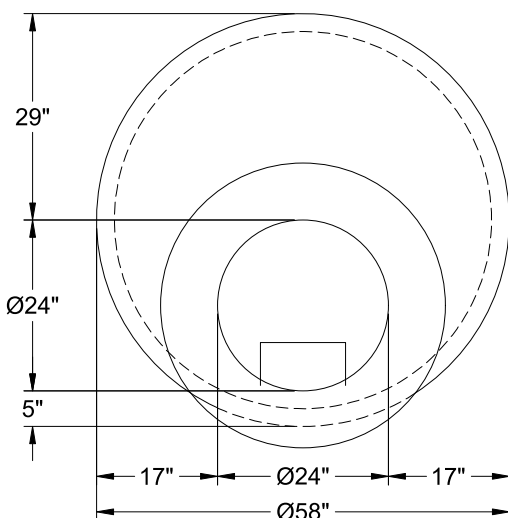
Structure ID: MH A7

P4 MH048CN42SP

ECC CONE w/ 24" HOLE, w/Coating F/G

P6)	24" - CASTING HEIGHT - 7"	0 lb
P5)	24" - GRADE RING F/F - 4"	270 lb
P4)	48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42"	3116 lb
P3)	48" - MH RISER w/COATING T/G - 72"	5030 lb
P2)	60" - MH Trans. Slab - 48" Hole ECC, w/Coating T/G - 13"	1928 lb
P1)	60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 60"	9231 lb
1)	60" - MH INVERT CHANNEL - FULL HEIGHT	2692 lb
1)	JOINT WRAP - 12" WD x 060" MAC WRAP	0 lb
1)	SPECIAL EXTERNAL COATING - Carboline 300M	0 lb
1)	SECONDARY POUR - Extended Flange	0 lb
2)	JOINT WRAP - 12" WD x 048" MAC WRAP	0 lb
1)	60" - Conseal CS-102 1.00" (Double)	0 lb
2)	48" - Conseal CS-102 1.00" (Double)	0 lb
2)	24" - Conseal CS-102 1.00" (Double)	0 lb
2)	A-Lok - 1040	2 lb
15)	MH Step ML-10-TDS-NCR - 10"	0 lb
	292.89 SqFt) Carboline Bitumastic 300M [EXT]	0 lb
	Structure Total:	22269 lb

Structure Notes:
 1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. CARBOLINE 300M EXTERIOR COATING REQUIRED
 5. STEPS REQUIRED
 6. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS



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

Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 42"	Weight (Net): 3116 lb Volume (Net): 0.8cu.yd
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Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A7

Note:

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

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

Plant: 100
 5/29/2026 8:44:12 AM

Tech: Jared - A
 PC: A. Chambers



Structure ID: AA-4 - AF-1

P1 MH048BA42

MH BASE F/n

- P3) 24" x 36" - CASTING HEIGHT - 6"
- P2) 48" - MH FLAT TOP w/24"x36" Hole F/F - 7"
- P1) 48" - MH BASE F/n - 42"
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 2) Hole - 32
- 1) Hole - 26
- 3) MH Step ML-10-TDS-NCR - 10"

0 lb
 1044 lb
 3304 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 4349 lb

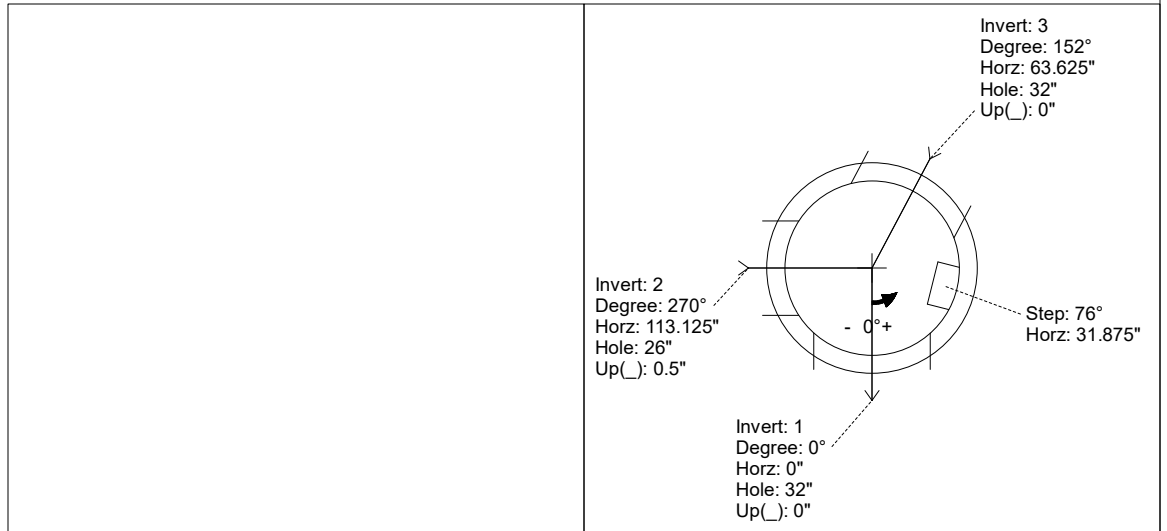
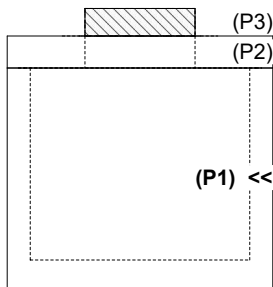
- Structures Notes:**
1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. NO STORM INVERT
 5. STEPS AT 76 DEGREES
 6. HOE-525 FRAME, GRATE, & CURB HOOD SUPPLIED BY OTHERS

Rim: 435.1' Rim to Invert: 4.4' Slack: 0.8" Sump: 3" Step Position: 76°

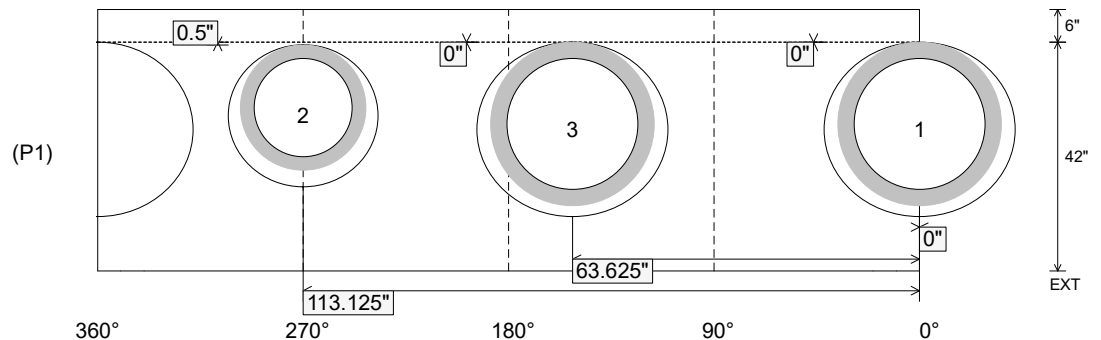
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	430.7'	0°	0"	24" RCP B WALL	30"	Hole 32	32"	35.027"	0"	0"
Invert 2	430.7'	270°	136.625"	18" RCP B WALL	23"	Hole 26	26"	27.476"	0.5"	0"
Invert 3	430.7'	152°	76.875"	24" RCP B WALL	30"	Hole 32	32"	35.027"	0"	0"
Invert 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: Flat
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

Weight (Net): 3304 lb
 Volume (Net): 0.84cu.yd

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

Plant: 100
 5/28/2026 11:25:37 AM

Tech: Jared - F
 PC: A. Chambers



Structure ID: 102 (25)

P1 MH048BAVF

MH BASE Custom Ht T/n

- P3) 24" x 30" - CASTING HEIGHT - 6"
- P2) 48" - MH FLAT TOP w/24"x30" Hole F/G - 12"
- P1) 48" - MH BASE Custom Ht T/n - 51"
- 1) CASTING - HOE 360 Set (F/G/H)
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" x 30" - Conseal CS-102 1.00"
- 2) Hole - 30
- 1) Hole - 16

0 lb
 1935 lb
 4175 lb
 362 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 6473 lb

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO STEPS AND NO INVERT CHANNEL.
 4. CASTING BY ICAST (HOE 360 SET (F/G/H)).

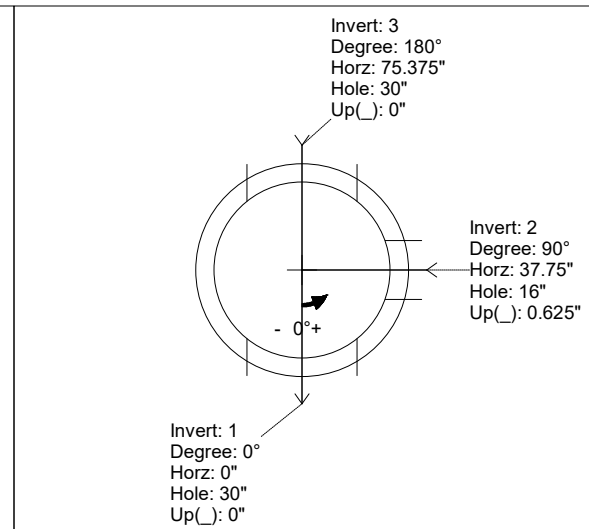
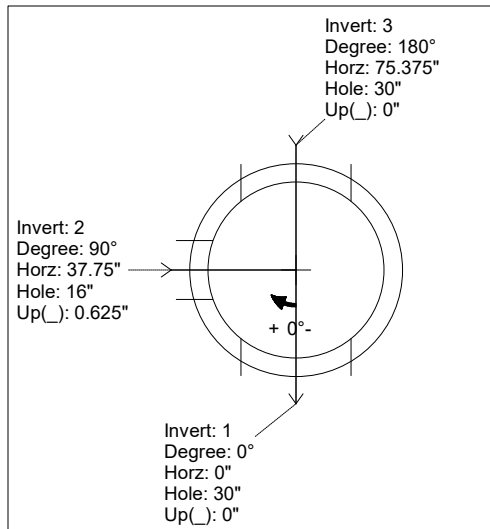
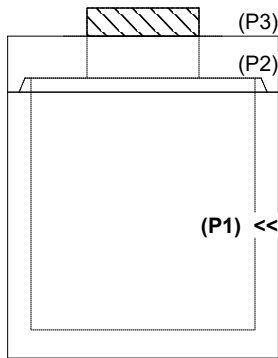
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 874.41' Rim to Invert: 5.66' Slack: 0.82" Sump: 1.9" Step Position:

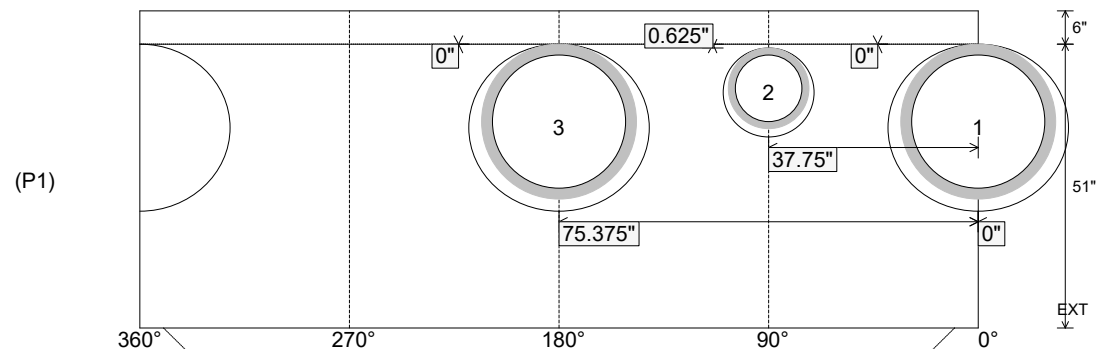
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	868.75'	0°	0"	24" HDPE	27.8"	Hole 30	30"	32.406"	0"	0"
Invert 2	868.75'	90°	45.5"	12" HDPE	14.5"	Hole 16	16"	16.312"	0.625"	0"
Invert 3	868.75'	180°	91.125"	24" HDPE	27.8"	Hole 30	30"	32.406"	0"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 51" Height (Ext): 57"	Weight (Net): 4175 lb Volume (Net): 1.07cu.yd
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Job Name: 25-4508 - Georgetown Commons Target
 Job Location: Georgetown, KY
 Contractor: Winwater Hartford KY Co.

Plant: 100
 5/28/2026 11:25:37 AM

Tech: Jared - F
 PC: A. Chambers



Structure ID: 101 (24)

P1 MH048BA36

MH BASE T/n

- P3) 24" x 30" - CASTING HEIGHT - 6"
- P2) 48" - MH FLAT TOP w/24"x30" Hole F/G - 12"
- P1) 48" - MH BASE T/n - 36"
- 1) CASTING - HOE 360 Set (F/G/H)
- 1) 48" - Conseal CS-102 1.00"
- 1) 24" x 30" - Conseal CS-102 1.00"
- 1) Hole - 30
- 1) Hole - 16
- 1) Hole - 20

0 lb
 1935 lb
 3308 lb
 362 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 5606 lb

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO STEPS AND NO INVERT CHANNEL.
 4. CASTING BY ICAST (HOE 360 SET (F/G/H)).

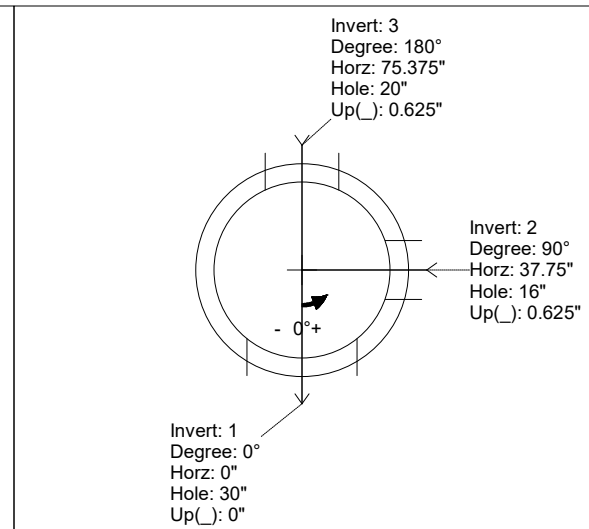
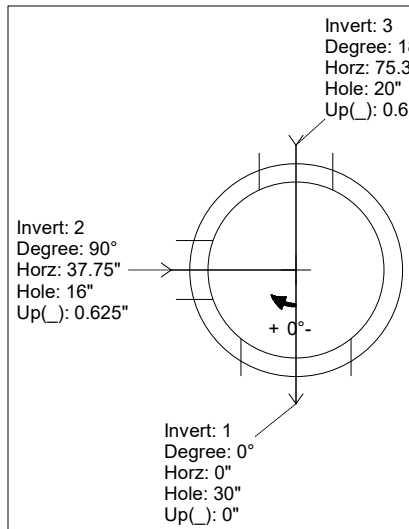
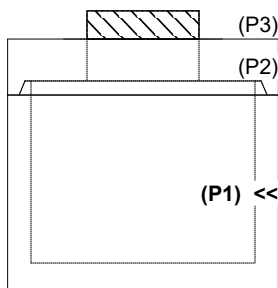
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 873.85' Rim to Invert: 4.35' Slack: 0.1" Sump: 1.9" Step Position:

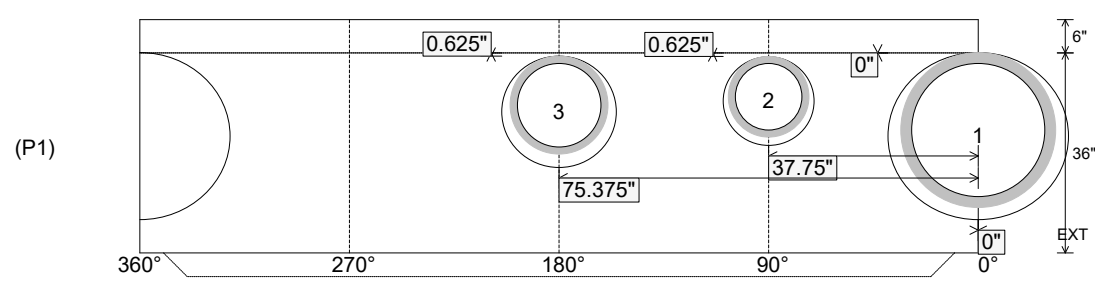
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	869.5'	0°	0"	24" HDPE	27.8"	Hole 30	30"	32.406"	0"	0"
Invert 2	869.5'	90°	45.5"	12" HDPE	14.5"	Hole 16	16"	16.312"	0.625"	0"
Invert 3	869.5'	180°	91.125"	15" HDPE	17.6"	Hole 20	20"	20.629"	0.625"	0"
Invert 4										
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): 36" Height (Ext): 42"	Weight (Net): 3308 lb Volume (Net): 0.84cu.yd
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Job Name: 24-1164 Paddy's Run Flood PS
 Job Location: Louisville, Ky.
 Contractor: Core & Main LP (Lou)

Plant: Beaver Dam, Ky.
 5/18/2026 8:15:55 AM

Tech: S. Felletter
 PC:



Structure ID: Storm MH

P1 MH048LD12S

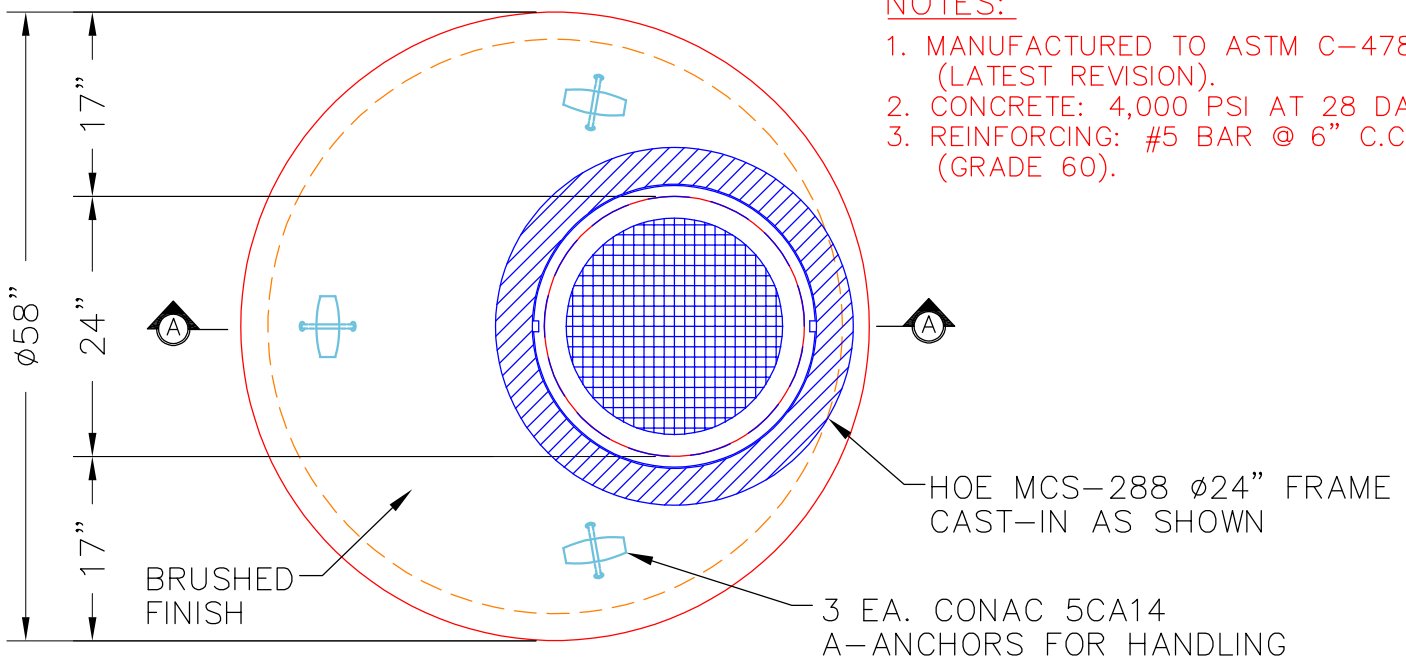
MH FLAT TOP SPECIAL (MCS-288) F/G

- P1) 48" - MH FLAT TOP SPECIAL (MCS-288) F/G - 12"
 1) CASTING - HOE MCS-288 Cover Storm
 1) CASTING - HOE MCS-288 Frame
 1) This Structure Includes a Cast-in Item

1593 lb
 125 lb
 123 lb
 0 lb

 Structure Total: 1841 lb

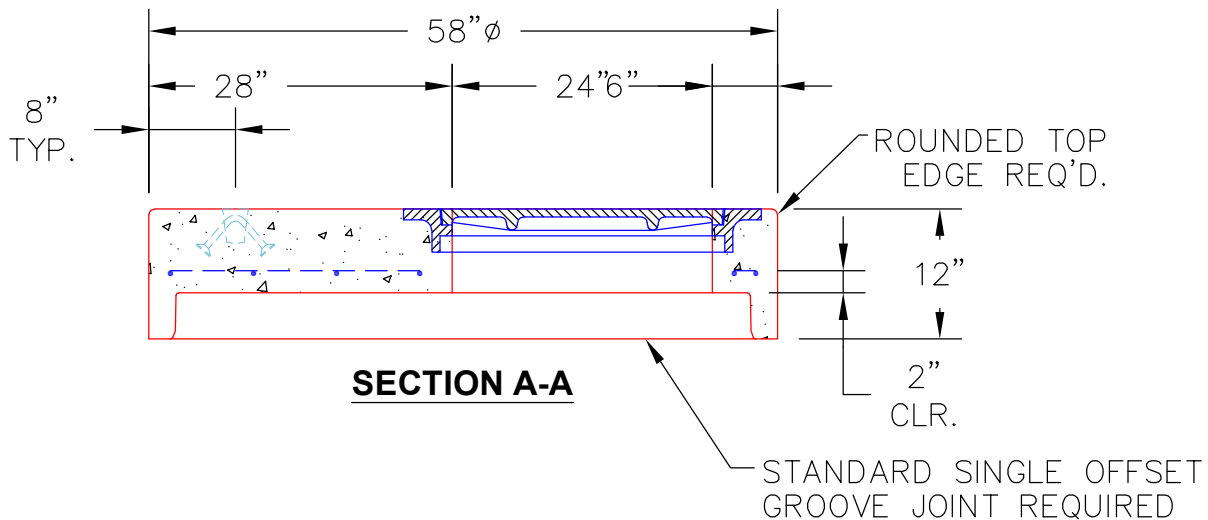
- Structure Notes:** 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO INVERT CHANNEL.
 4. CASTING BY ICAST (HOE MCS-288). CAST-IN.
 REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.



NOTES:

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

PLAN VIEW



SECTION A-A

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 12"

Weight (Net): 1593 lb
 Volume (Net): 0.41cu.yd

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

Plant: 100

5/19/2026 12:59:27 PM

Tech: J. Horsley

PC: C. Golf



Structure ID: SSMH AA-5

P1 MH048BAVF

MH BASE Custom Ht T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE Custom Ht T/n - 26"
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 4) MH Step ML-10-TDS-NCR - 10"

	0 lb
	3000 lb
	3051 lb
	1440 lb
	0 lb
	0 lb
	305 lb
	0 lb
	16 lb
	0 lb
Structure Total:	7812 lb

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

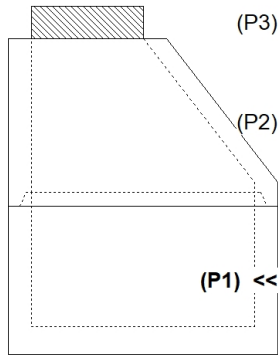
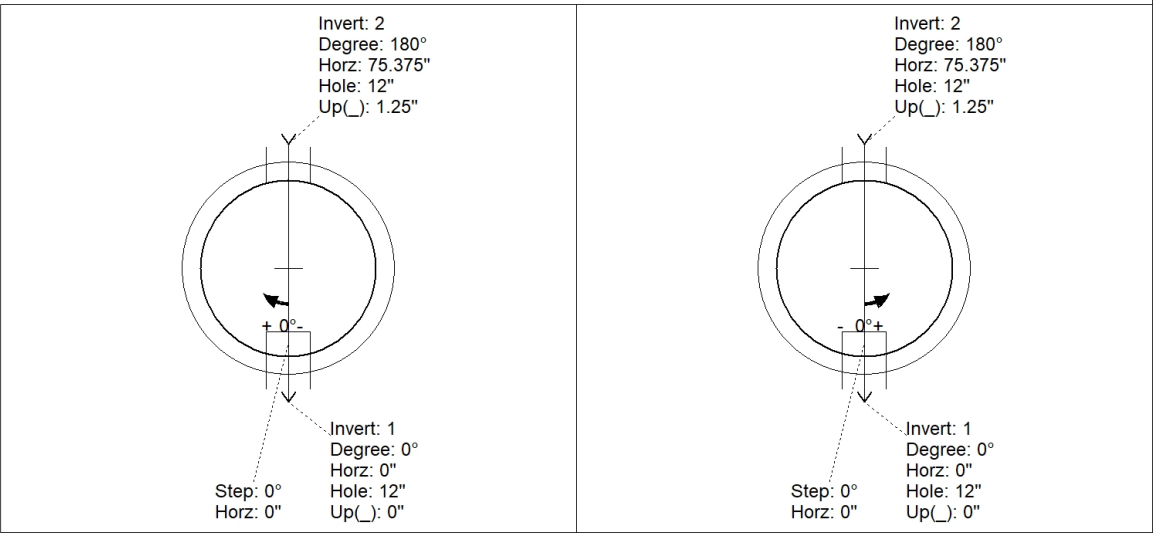
REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 907.03' Rim to Invert: 5.63' Slack: 0.56" Sump: 2" Step Position: 0°

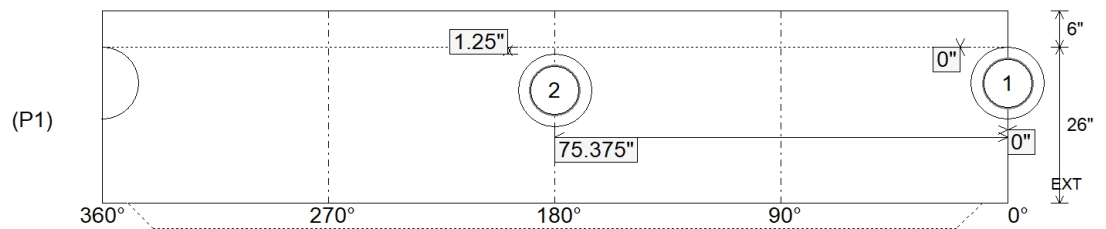
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	901.4'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	901.5'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 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): 26"
 Height (Ext): 32"

Weight (Net): 3051 lb
 Volume (Net): 0.78cu.yd

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

Plant: 100

5/19/2026 12:59:27 PM

Tech: J. Horsley

PC: C. Golf



Structure ID: SSMH AA-5

P1A MH048BAVF

MH BASE Custom Ht T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE Custom Ht T/n - 26"
- 1) 48" - MH INVERT CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - Conseal CS-102 1.00" (Double)
- 2) PSX - 12-08 NYLO
- 4) MH Step ML-10-TDS-NCR - 10"

0 lb
 3000 lb
 3051 lb
 1440 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 7812 lb

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

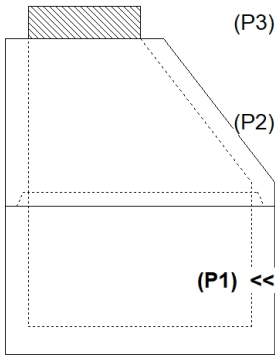
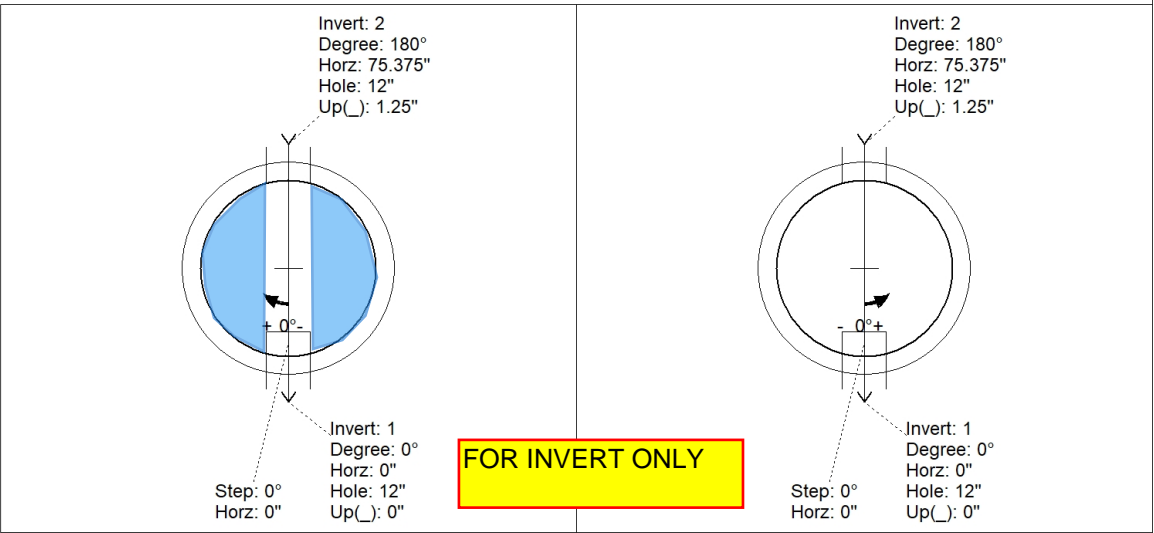
REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 907.03' Rim to Invert: 5.63' Slack: 0.56" Sump: 2" Step Position: 0°

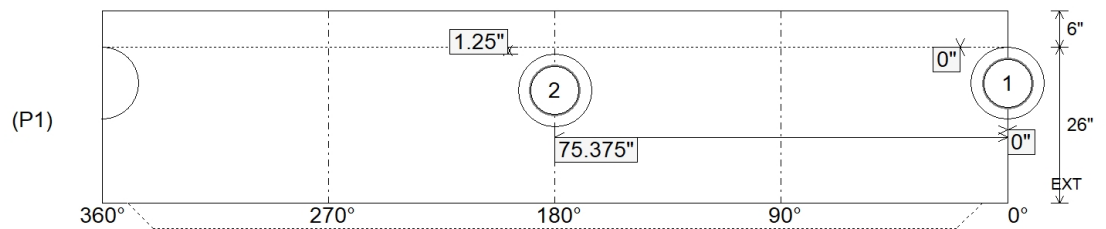
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	901.4'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	901.5'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 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): 26"
 Height (Ext): 32"

Weight (Net): 3051 lb
 Volume (Net): 0.78cu.yd

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

Plant: 100

Tech: J. Horsley

5/19/2026 12:59:26 PM

PC: C. Golf



Structure ID: SSMH AA-3

P1 MH048BAVF

MH BASE Custom Ht T/n

P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 48" - ECC CONE w/ 24" HOLE F/G - 24"	1550 lb
P2) 48" - MH RISER T/G - 36"	2515 lb
P1) 48" - MH BASE Custom Ht T/n - 43"	4248 lb
1) 48" - MH INVERT CHANNEL - FULL HEIGHT	1440 lb
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) CASTING - HOE MC-350 F/C Sanitary	305 lb
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) Quik-Lok - QL-08-C	1 lb
1) PSX - 12-08 NYLO	8 lb
8) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	10067 lb

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

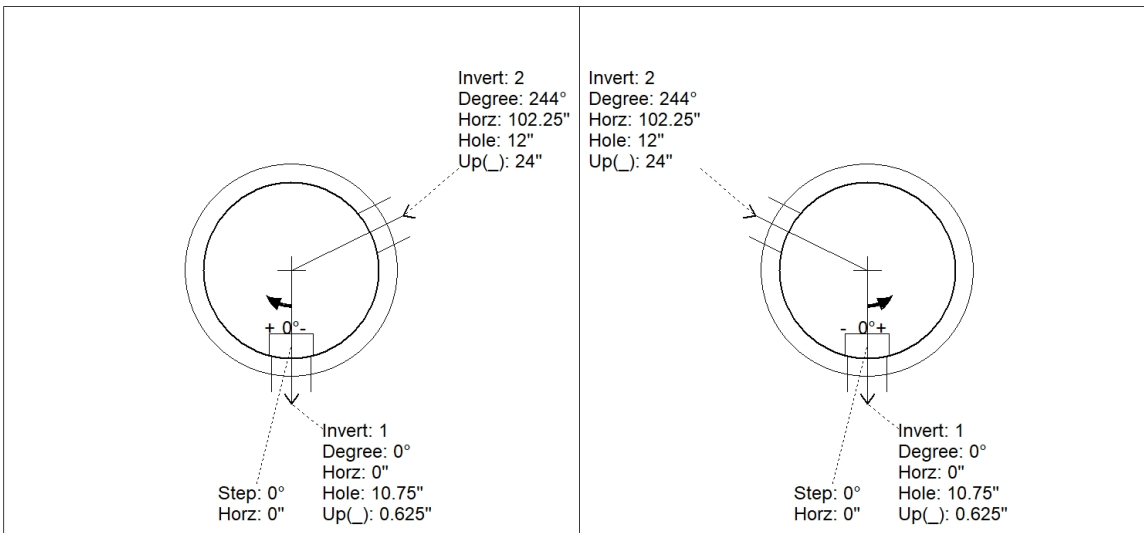
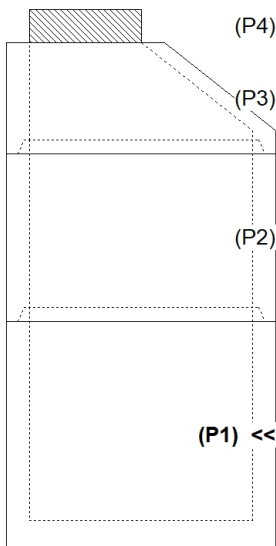
REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 878.45' Rim to Invert: 9' Slack: 0" Sump: 2" Step Position: 0°

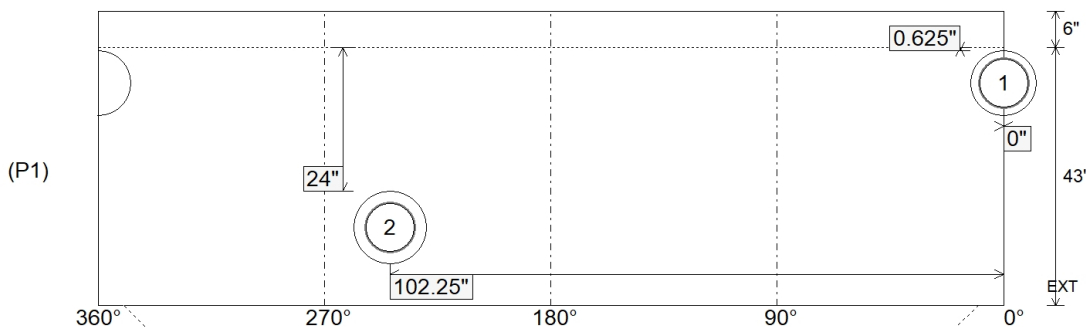
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	869.45'	0°	0"	8" PVC SDR35	8.5"	Quik-Lok QL-08-C	10.75"	10.842"	0.625"	0"
Invert 2	871.45'	244°	123.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	24"	0"
Invert 3										
Invert 4										
Invert 5										
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): 43"
 Height (Ext): 49"

Weight (Net): 4248 lb
 Volume (Net): 1.08cu.yd

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

Plant: 100

5/19/2026 12:59:26 PM

Tech: J. Horsley

PC: C. Golf



Structure ID: SSMH AA-3

P1A MH048BAVF

MH BASE Custom Ht T/n

P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 48" - ECC CONE w/ 24" HOLE F/G - 24"	1550 lb
P2) 48" - MH RISER T/G - 36"	2515 lb
P1) 48" - MH BASE Custom Ht T/n - 43"	4248 lb
1) 48" - MH INVERT CHANNEL - FULL HEIGHT	1440 lb
1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212	0 lb
1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)	0 lb
1) CASTING - HOE MC-350 F/C Sanitary	305 lb
2) 48" - Conseal CS-102 1.00" (Double)	0 lb
1) Quik-Lok - QL-08-C	1 lb
1) PSX - 12-08 NYLO	8 lb
8) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	10067 lb

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

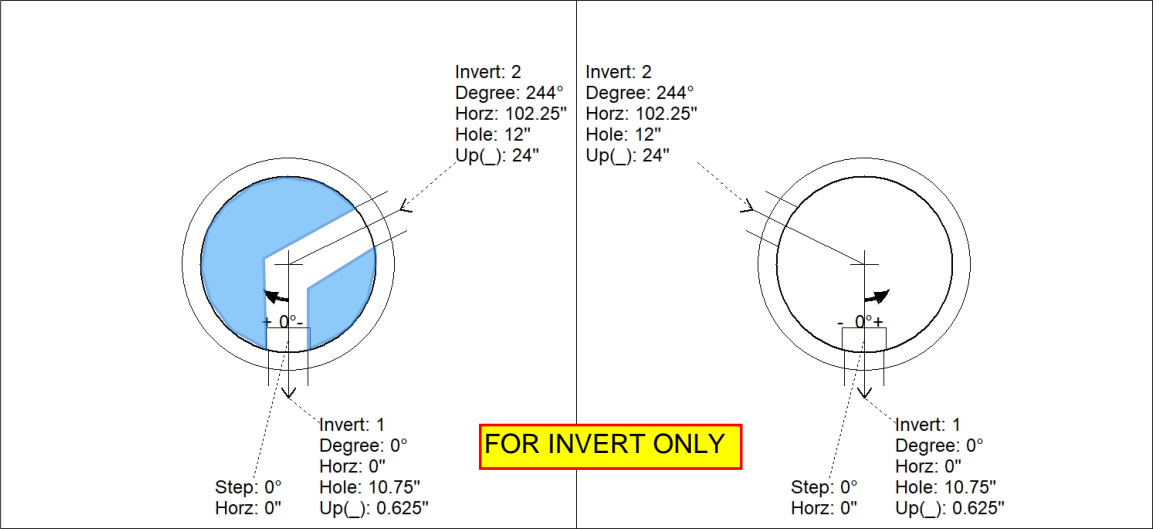
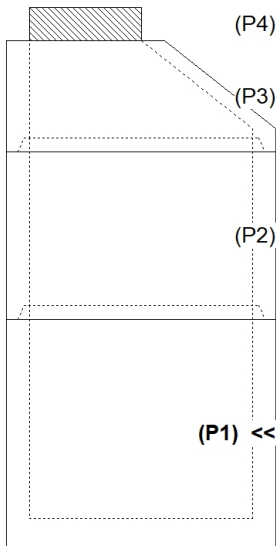
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 878.45' Rim to Invert: 9' Slack: 0" Sump: 2" Step Position: 0°

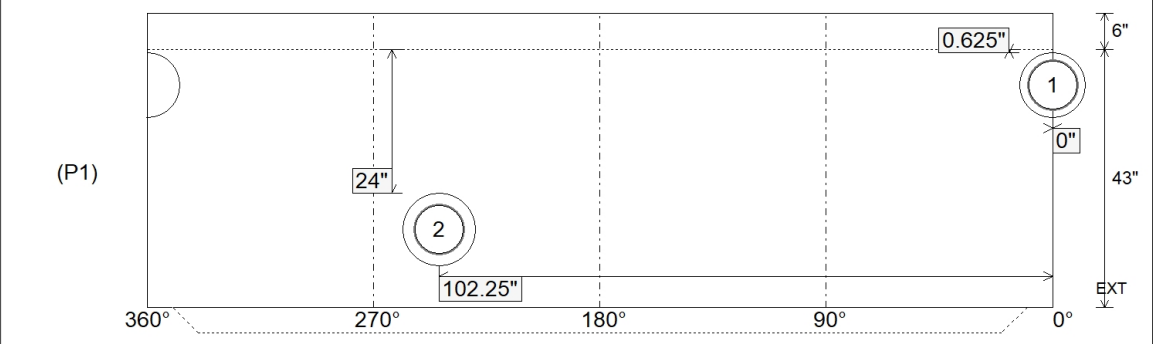
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	869.45'	0°	0"	8" PVC SDR35	8.5"	Quik-Lok QL-08-C	10.75"	10.842"	0.625"	0"
Invert 2	871.45'	244°	123.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	24"	0"
Invert 3										
Invert 4										
Invert 5										
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): 43" Height (Ext): 49"	Weight (Net): 4248 lb Volume (Net): 1.08cu.yd
----------------------------------	---------------------------------	--	--	--

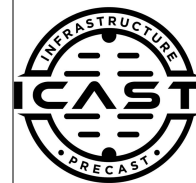
Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2
 Job Location: Danville, KY
 Contractor: Hubert Excavating & Contracting

Plant: 100

Tech: J. Horsley

6/3/2026 1:48:08 PM

PC: C. Goff



Structure ID: MH A7

P1 MH060BAEVF

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

- P6) 24" - CASTING HEIGHT - 7"
- P5) 24" - GRADE RING F/F - 4"
- P4) 48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42"
- P3) 48" - MH RISER w/COATING T/G - 72"
- P2) 60" - MH Trans. Slab - 48" Hole ECC, w/Coating T/G - 13"
- P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 60"
- 1) 60" - MH INVERT CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 12" WD x 060° MAC WRAP
- 1) SPECIAL EXTERNAL COATING - Carboline 300M
- 1) SECONDARY POUR - Extended Flange
- 2) JOINT WRAP - 12" WD x 048" MAC WRAP
- 1) 60" - Conseal CS-102 1.00" (Double)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) 24" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1040
- 15) MH Step ML-10-TDS-NCR - 10"

- 0 lb
- 270 lb
- 3116 lb
- 5030 lb
- 1928 lb
- 9231 lb
- 2692 lb
- 0 lb
- 0 lb
- 0 lb
- 0 lb
- 0 lb
- 0 lb
- 0 lb
- 2 lb
- 0 lb
- 0 lb

- Structure Notes:**
1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. INVERT CHANNEL REQUIRED
 5. CARBOLINE 300M EXTERIOR COATING REQUIRED
 6. STEPS AT 267 DEGREES
 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS

292.89 SqFt) Carboline Bitumastic 300M [EXT]

Structure Total: 22229 lb

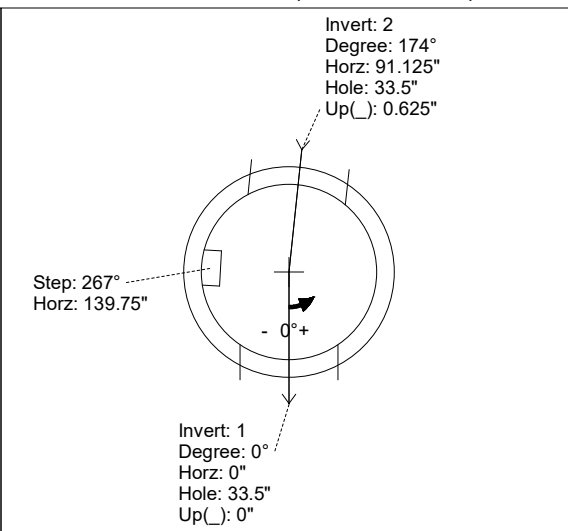
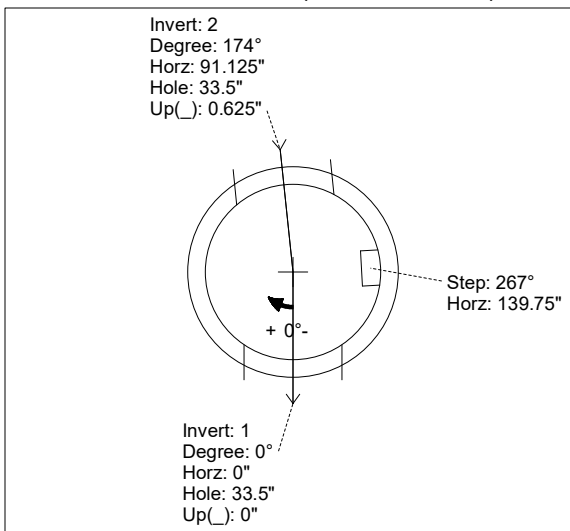
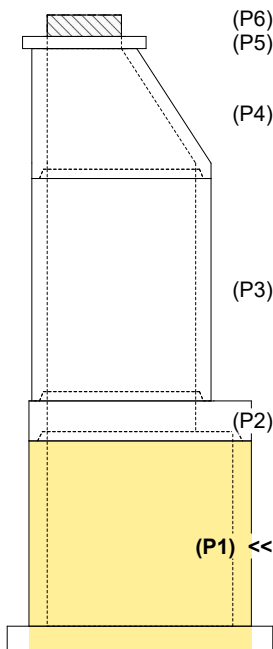
FIRST POUR (BASE): 7,881 LBS
SECOND POUR (FLANGE): 1,350 LBS

Rim: 904.32' Rim to Invert: 16.445' Slack: 1.555" Sump: 2.215" Step Position: 267°

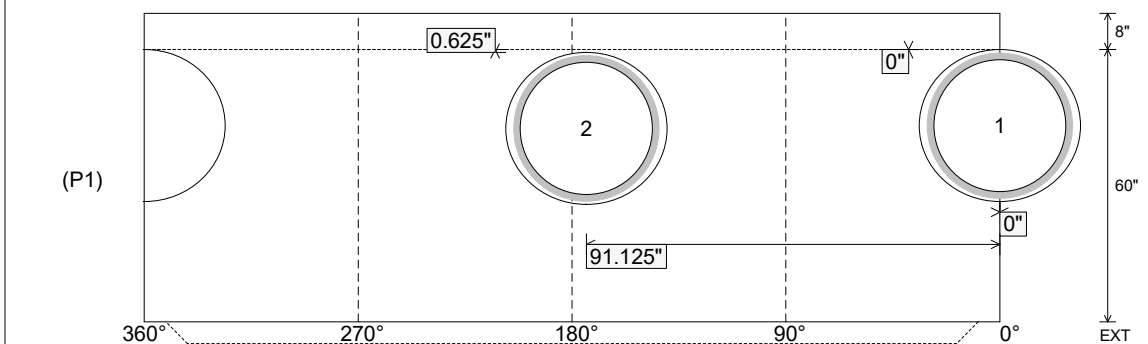
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	887.875'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	887.925'	174°	109.375"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



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

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 6"
 Floor Height: 8"

Height (Int): 60"
 Height (Ext): 68"

Weight (Net): 9231 lb
 Volume (Net): 2.36cu.yd

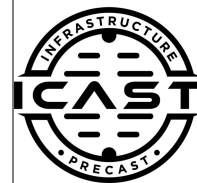
Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2
 Job Location: Danville, KY
 Contractor: Hubert Excavating & Contracting

Plant: 100

6/3/2026 1:48:08 PM

Tech: J. Horsley

PC: C. Goff



Structure ID: MH A7

P1 MH060BAEVF

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

- P6) 24" - CASTING HEIGHT - 7"
- P5) 24" - GRADE RING F/F - 4"
- P4) 48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42"
- P3) 48" - MH RISER w/COATING T/G - 72"
- P2) 60" - MH Trans. Slab - 48" Hole ECC, w/Coating T/G - 13"
- P1) 60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 60"
- 1) 60" - MH INVERT CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 12" WD x 060" MAC WRAP
- 1) SPECIAL EXTERNAL COATING - Carboline 300M
- 1) SECONDARY POUR - Extended Flange
- 2) JOINT WRAP - 12" WD x 048" MAC WRAP
- 1) 60" - Conseal CS-102 1.00" (Double)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) 24" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1040
- 15) MH Step ML-10-TDS-NCR - 10"

292.89 SqFt) Carboline Bitumastic 300M [EXT]

0 lb
270 lb
3116 lb
5030 lb
1928 lb
9231 lb
2692 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb
2 lb
0 lb
0 lb

Structure Total: 22269 lb

Structure Notes:

1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: DRILL & DOWEL #5 BAR @ 8" C.C. E.W. (GRADE 60) FOR FLANGE POUR TIE-IN - 4" MIN. PENETRATION INTO BASE FLOOR & 2" MIN. REBAR CLEARANCE (TYP)
4. INVERT CHANNEL REQUIRED
5. CARBOLINE 300M EXTERIOR COATING REQUIRED
6. STEPS AT 267 DEGREES
7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS

FIRST POUR (BASE): 7,881 LBS

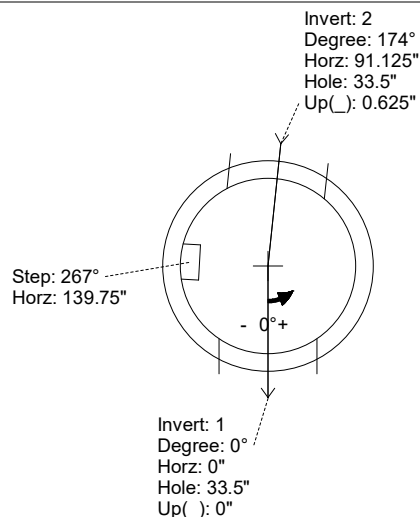
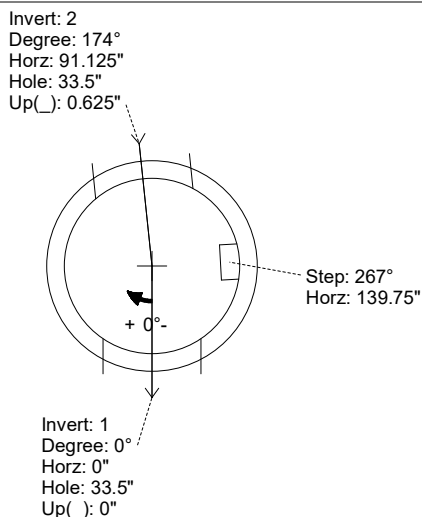
SECOND POUR (FLANGE): 1,350 LBS

Rim: 904.32' Rim to Invert: 16.445' Slack: 1.555" Sump: 2.215" Step Position: 267°

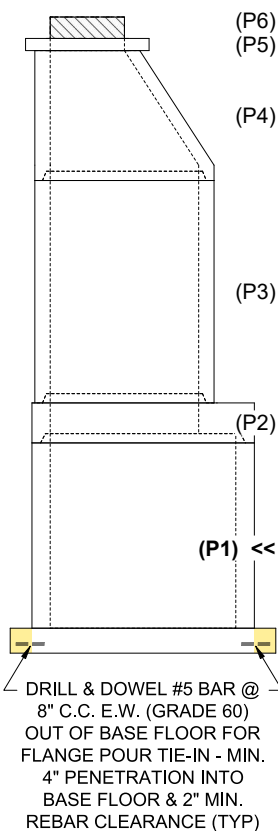
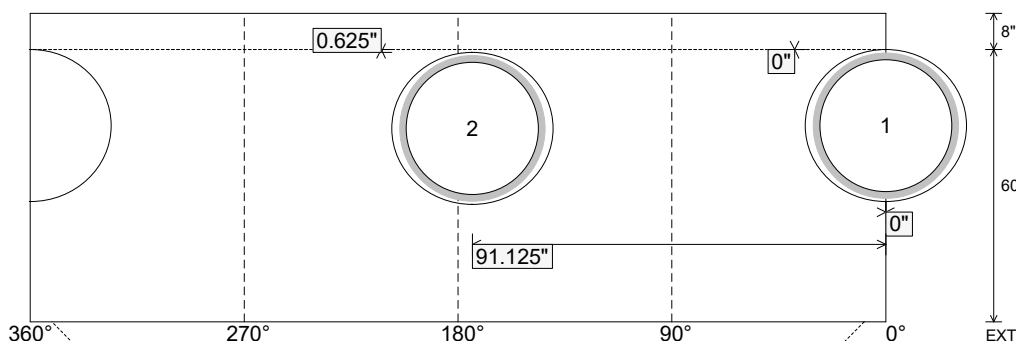
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	887.875'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	887.925'	174°	109.375"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



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

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 6"
Floor Height: 8"

Height (Int): 60"
Height (Ext): 68"

Weight (Net): 9231 lb
Volume (Net): 2.36cu.yd

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2
 Job Location: Danville, KY
 Contractor: Hubert Excavating & Contracting

Plant: 100

Tech: J. Horsley

6/3/2026 1:48:08 PM

PC: C. Goff



Structure ID: MH A7

P1 MH060BAEVF

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

P6)	24" - CASTING HEIGHT - 7"	0 lb
P5)	24" - GRADE RING F/F - 4"	270 lb
P4)	48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42"	3116 lb
P3)	48" - MH RISER w/COATING T/G - 72"	5030 lb
P2)	60" - MH Trans. Slab - 48" Hole ECC, w/Coating T/G - 13"	1928 lb
P1)	60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 60"	9231 lb
1)	60" - MH INVERT CHANNEL - FULL HEIGHT	2692 lb
1)	JOINT WRAP - 12" WD x 060" MAC WRAP	0 lb
1)	SPECIAL EXTERNAL COATING - Carboline 300M	0 lb
1)	SECONDARY POUR - Extended Flange	0 lb
2)	JOINT WRAP - 12" WD x 048" MAC WRAP	0 lb
1)	60" - Conseal CS-102 1.00" (Double)	0 lb
2)	48" - Conseal CS-102 1.00" (Double)	0 lb
2)	24" - Conseal CS-102 1.00" (Double)	0 lb
2)	A-Lok - 1040	2 lb
15)	MH Step ML-10-TDS-NCR - 10"	0 lb
	292.89 SqFt) Carboline Bitumastic 300M [EXT]	0 lb
	Structure Total:	22269 lb

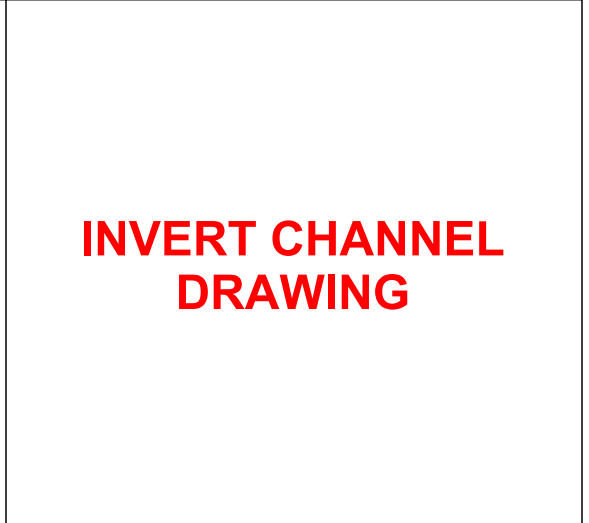
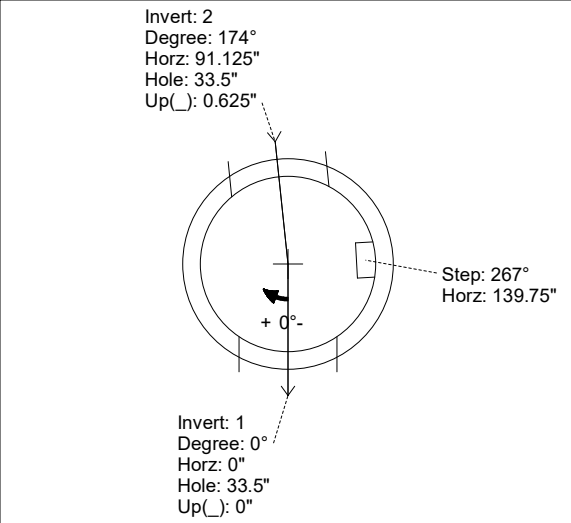
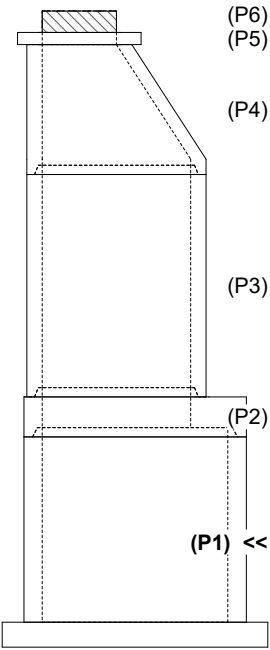
Structure Notes:
 1. PER ASTM C-478 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615
 4. INVERT CHANNEL REQUIRED
 5. CARBOLINE 300M EXTERIOR COATING REQUIRED
 6. STEPS AT 267 DEGREES
 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS

Rim: 904.32' Rim to Invert: 16.445' Slack: 1.555" Sump: 2.215" Step Position: 267°

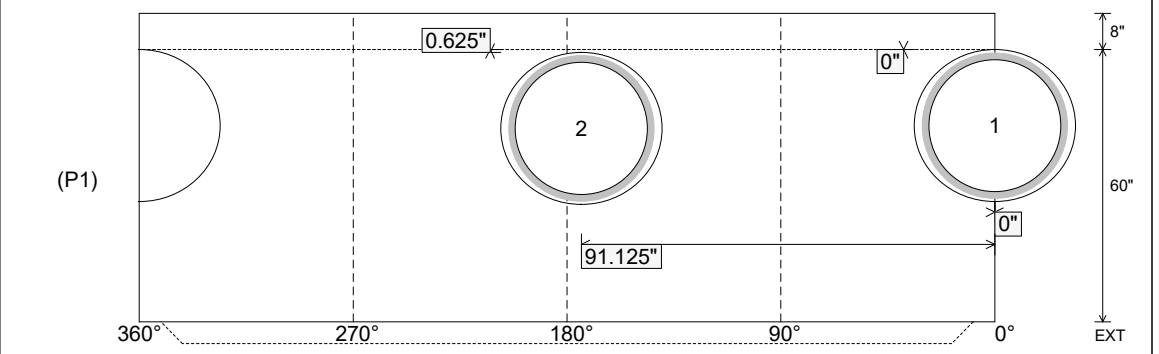
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	887.875'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	887.925'	174°	109.375"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 60" Height (Ext): 68"	Weight (Net): 9231 lb Volume (Net): 2.36cu.yd
--	---------------------------------	--	--	--

Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A7

Note:

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

Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2
 Job Location: Danville, KY
 Contractor: Hubert Excavating & Contracting

Plant: 100

6/3/2026 3:01:25 PM

Tech: J. Horsley

PC: C. Goff



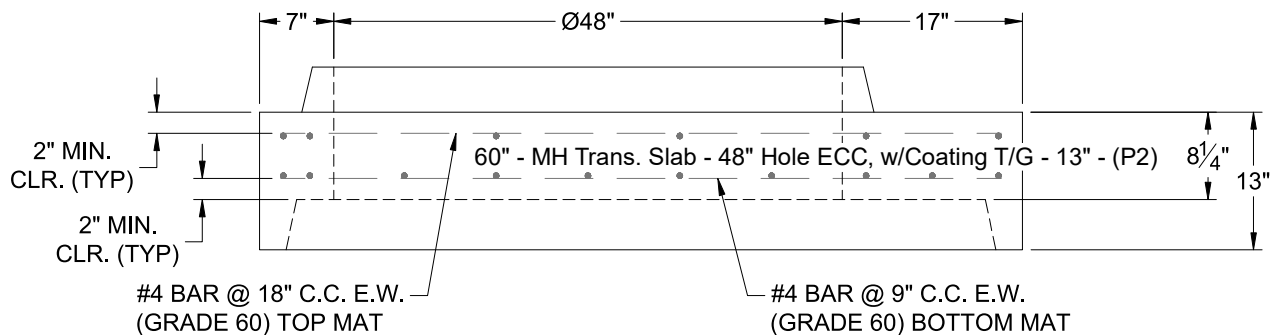
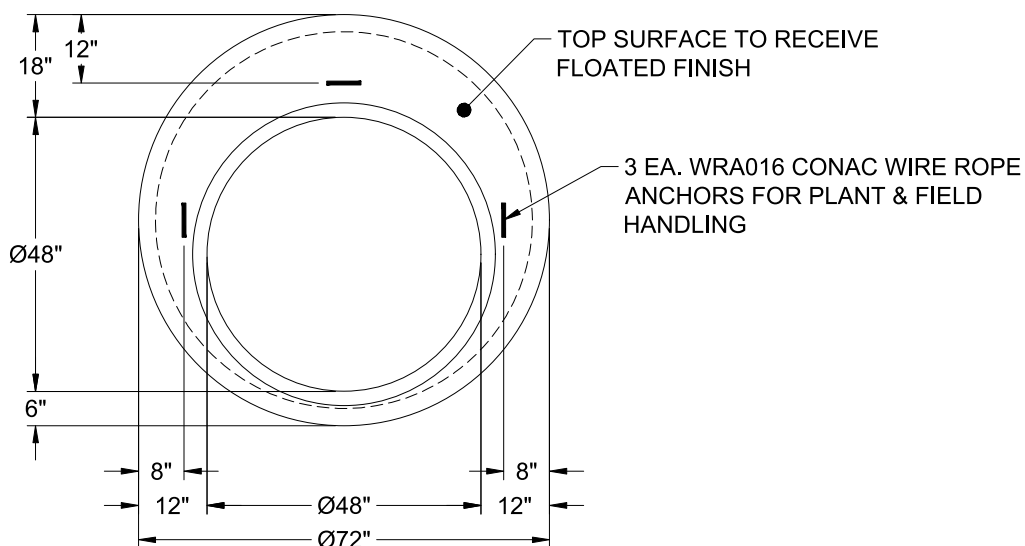
Structure ID: MH A7

P2 MH060TS13-48ECC

MH Trans. Slab - 48" Hole ECC, w/Coating T/G

P6)	24" - CASTING HEIGHT - 7"	0 lb
P5)	24" - GRADE RING F/F - 4"	270 lb
P4)	48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42"	3116 lb
P3)	48" - MH RISER w/COATING T/G - 72"	5030 lb
P2)	60" - MH Trans. Slab - 48" Hole ECC, w/Coating T/G - 13"	1928 lb
P1)	60" - MH BASE w/FLANGE (08F/07EF) w/Coating T/n - 60"	9231 lb
1)	60" - MH INVERT CHANNEL - FULL HEIGHT	2692 lb
1)	JOINT WRAP - 12" WD x 060" MAC WRAP	0 lb
1)	SPECIAL EXTERNAL COATING - Carboline 300M	0 lb
1)	SECONDARY POUR - Extended Flange	0 lb
2)	JOINT WRAP - 12" WD x 048" MAC WRAP	0 lb
1)	60" - Conseal CS-102 1.00" (Double)	0 lb
2)	48" - Conseal CS-102 1.00" (Double)	0 lb
2)	24" - Conseal CS-102 1.00" (Double)	0 lb
2)	A-Lok - 1040	2 lb
15)	MH Step ML-10-TDS-NCR - 10"	0 lb
	292.89 SqFt) Carboline Bitumastic 300M [EXT]	0 lb
	Structure Total:	22269 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. CARBOLINE 300M EXTERIOR COATING REQUIRED
 5. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS
 6. LIFTERS: 3 EA. WRA016 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING
 7. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 6"	Height (Ext): 13"	Weight (Net): 1928 lb Volume (Net): 0.49cu.yd
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Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A7

Note:

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

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

Plant: 100

5/28/2026 11:26:58 AM

Tech: Jared - F

PC: A. Chambers



Structure ID: 107 (29)

P2 MH060LD13

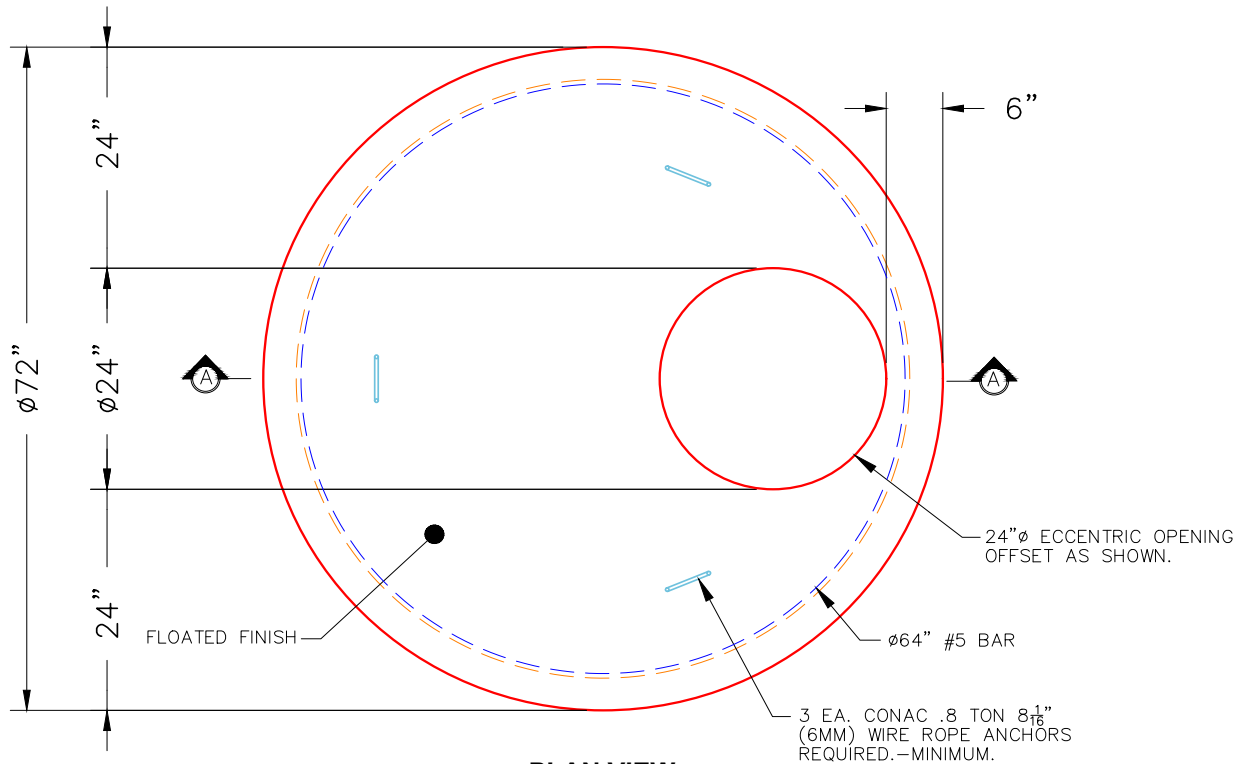
MH FLAT TOP w/ 24" ECC Hole F/G

- P3) 24" - CASTING HEIGHT - 7"
- P2) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13"
- P1) 60" - MH BASE Custom Ht T/n - 71"
- 1) CASTING - HOE MC-375 F/C Storm
- 1) 60" - Conseal CS-102 1.00"
- 2) Hole - 38
- 1) Hole - 30
- 6) MH Step ML-10-TDS-NCR - 10"

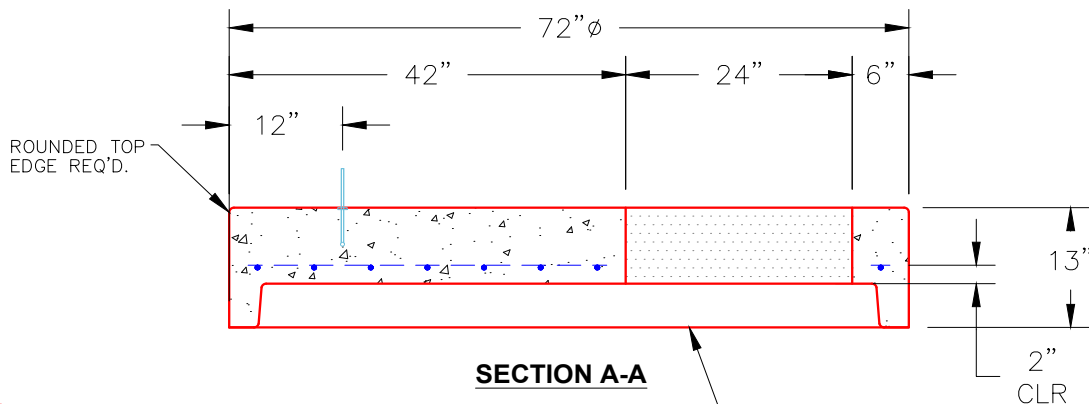
	0 lb
	2869 lb
	8555 lb
	271 lb
	0 lb
	0 lb
	0 lb
	0 lb
Structure Total:	11695 lb

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

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



PLAN VIEW



SECTION A-A

NOTES:

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

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 13"

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

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

Plant: 100
 5/28/2026 11:25:31 AM

Tech: Jared - F
 PC: A. Chambers



Structure ID: 9 (12)

P1 MH060BAVF

MH BASE Custom Ht T/n

- P3) 24" x 36" - CASTING HEIGHT - 6"
- P2) 60" - MH FLAT TOP w/24"x36" Hole F/G - 13"
- P1) 60" - MH BASE Custom Ht T/n - 51"
- 1) CASTING - HOE 470 SET LV (F/G/H)
- 1) 60" - Conseal CS-102 1.00"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 2) Hole - 38"

0 lb
 3499 lb
 6837 lb
 394 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 10730 lb

- Structure Notes:**
1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO STEPS AND NO INVERT CHANNEL.
 4. CASTING BY ICAST (HOE 470 SET LV (F/G/H)).

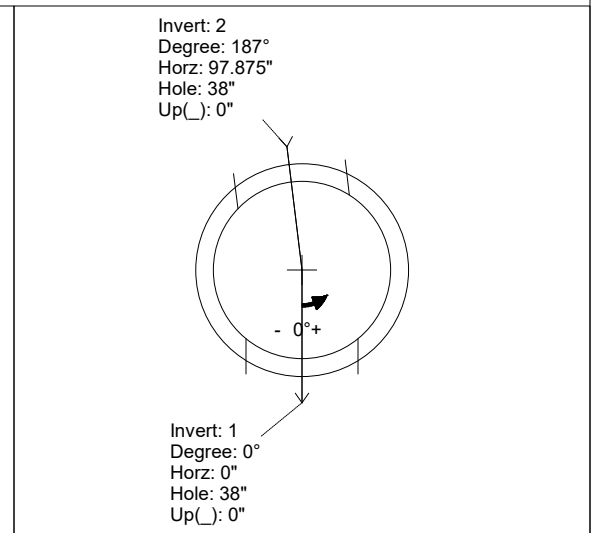
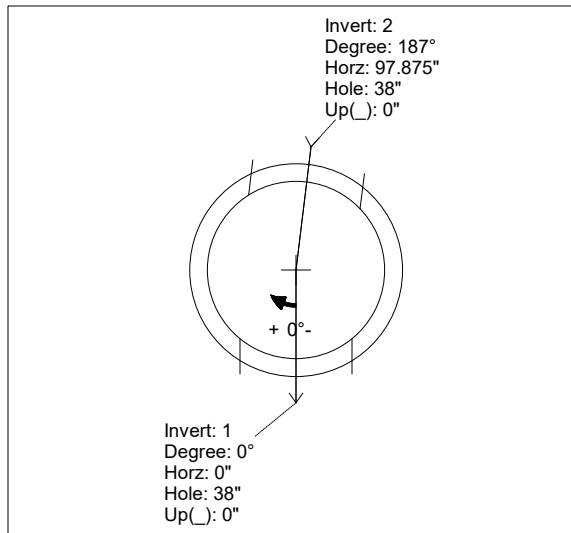
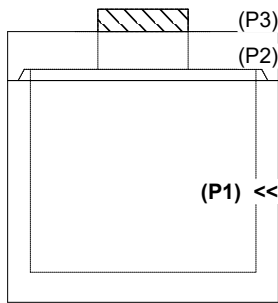
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .18)
 - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

Rim: 871' Rim to Invert: 5.7' Slack: 0.95" Sump: 2.55" Step Position:

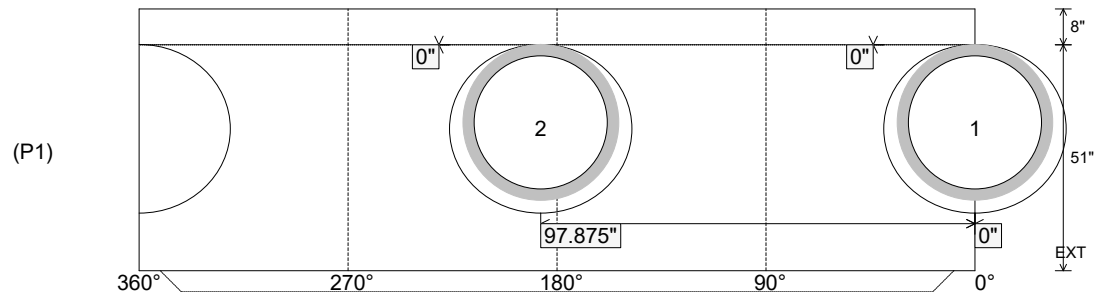
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	865.3'	0°	0"	30" HDPE	35.1"	Hole 38	38"	41.151"	0"	0"
Invert 2	865.3'	187°	117.5"	30" HDPE	35.1"	Hole 38	38"	41.151"	0"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 6"
 Floor Height: 8"

Height (Int): 51"
 Height (Ext): 59"

Weight (Net): 6837 lb
 Volume (Net): 1.75cu.yd

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

Plant: 100
 5/28/2026 11:25:40 AM

Tech: Jared - F
 PC: A. Chambers



Structure ID: 107 (29)

P1 MH060BAVF

MH BASE Custom Ht T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 60" - MH FLAT TOP w/ 24" ECC Hole F/G - 13"
- P1) 60" - MH BASE Custom Ht T/n - 71"
- 1) CASTING - HOE MC-375 F/C Storm
- 1) 60" - Conseal CS-102 1.00"
- 2) Hole - 38
- 1) Hole - 30
- 6) MH Step ML-10-TDS-NCR - 10"

0 lb
 2869 lb
 8555 lb
 271 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 11695 lb

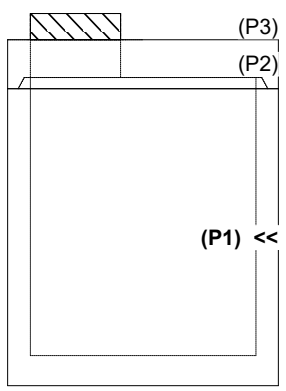
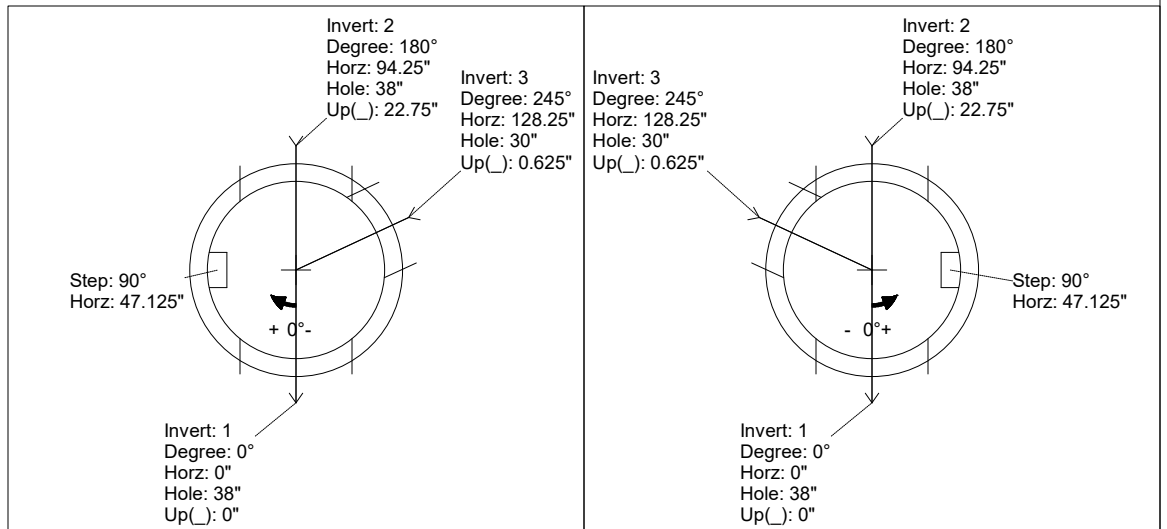
Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. NO INVERT CHANNEL.
 4. CASTING BY ICAST (HOE MC-375 F/C STORM).
 REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
 - RISER/WALLS (As .18)
 - FLOOR (As .37) #5 BARS AT 10" C.C.E.W.

Rim: 872.5' Rim to Invert: 7.4' Slack: 0.35" Sump: 2.55" Step Position: 90°

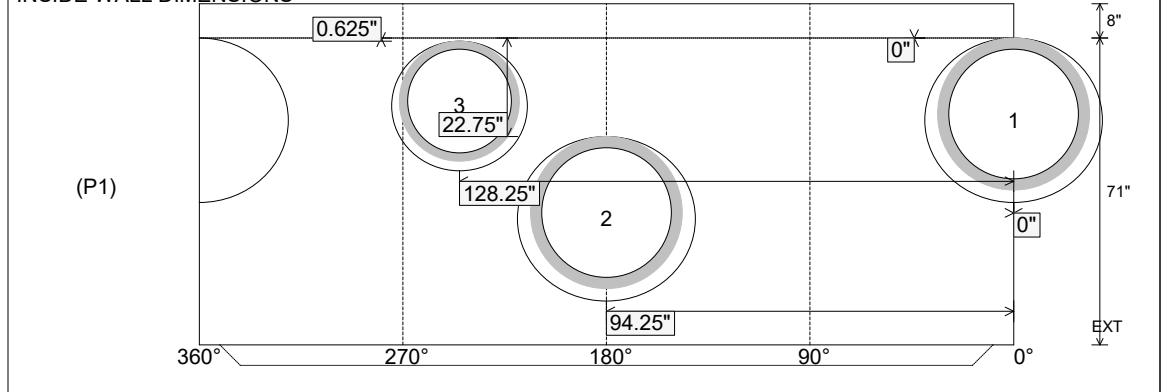
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (↓)	Offset
Invert 1	865.1'	0°	0"	30" HDPE	35.1"	Hole 38	38"	41.151"	0"	0"
Invert 2	867'	180°	113.125"	30" HDPE	35.1"	Hole 38	38"	41.151"	22.75"	0"
Invert 3	865.1'	245°	154"	24" HDPE	27.8"	Hole 30	30"	31.416"	0.625"	0"
Invert 4										
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): 71" Height (Ext): 79"	Weight (Net): 8555 lb Volume (Net): 2.18cu.yd
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Structure ID: AA-3 - AB-1

P1 MH072BAVF

MH BASE Custom Ht F/n

P3) 24" x 70" - CASTING HEIGHT - 6" P2) 72" - MH FLAT TOP w/24"x70" Hole F/F - 10" P1) 72" - MH BASE Custom Ht F/n - 75" 1) 72" - Conseal CS-102 1.00" 1) Hole - 48 1) Hole - 22 1) Hole - 34 6) MH Step ML-10-TDS-NCR - 10"	<table style="width:100%; border-collapse: collapse;"> <tr><td>0 lb</td></tr> <tr><td>3465 lb</td></tr> <tr><td>12909 lb</td></tr> <tr><td>0 lb</td></tr> <tr><td>0 lb</td></tr> <tr><td>0 lb</td></tr> <tr><td>0 lb</td></tr> <tr><td>0 lb</td></tr> <tr><td>0 lb</td></tr> <tr><td>-----</td></tr> <tr><td>Structure Total: 16374 lb</td></tr> </table>	0 lb	3465 lb	12909 lb	0 lb	0 lb	0 lb	0 lb	0 lb	0 lb	-----	Structure Total: 16374 lb
0 lb												
3465 lb												
12909 lb												
0 lb												
0 lb												
0 lb												
0 lb												
0 lb												
0 lb												

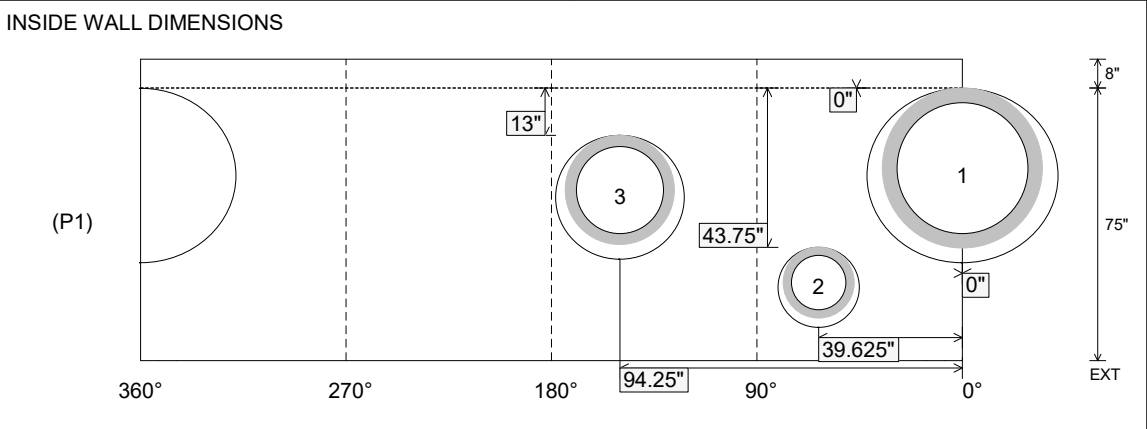
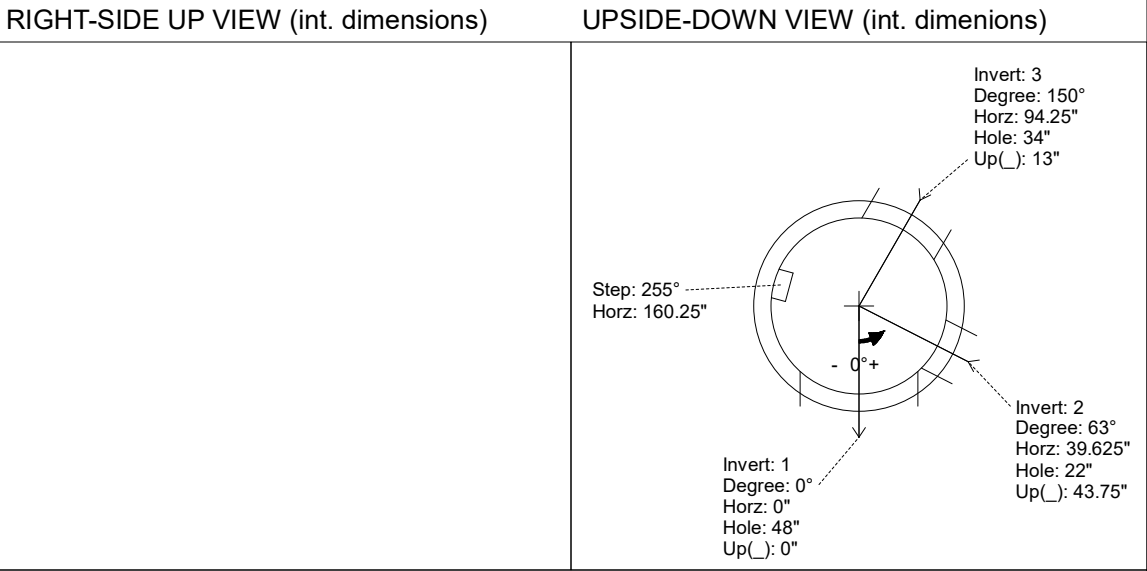
Structure Total: 16374 lb												

Structures Notes:

1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615
4. NO STORM INVERT
5. STEPS AT 255 DEGREES
6. HOE-525 DOUBLE FRAMES, GRATES, & CURB HOODS SUPPLIED BY OTHERS

Rim: 424.8' Rim to Invert: 7.3' Slack: 0.6" Sump: 4" Step Position: 255°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	417.5'	0°	0"	36" RCP B WALL	44"	Hole 48	48"	52.54"	0"	0"
Invert 2	421'	63°	47.25"	15" RCP B WALL	19.5"	Hole 22	22"	22.358"	43.75"	0"
Invert 3	418.5'	150°	112.625"	24" RCP B WALL	30"	Hole 34	34"	35.41"	13"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 7" Floor Height: 8"	Height (Int): 75" Height (Ext): 83"	Weight (Net): 12909 lb Volume (Net): 3.3cu.yd
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Job Name: 26-1227 - Project Colt
 Job Location: Evansville, IN
 Contractor: Russell's Excavating

Plant: 100
 5/12/2026 11:31:00 AM

Tech: Jared - F
 PC: A. Chambers



Structure ID: 203-24 MHJ

P2 MH072LD10S

MH FLAT TOP w/36"x48" Hole F/F

- 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"

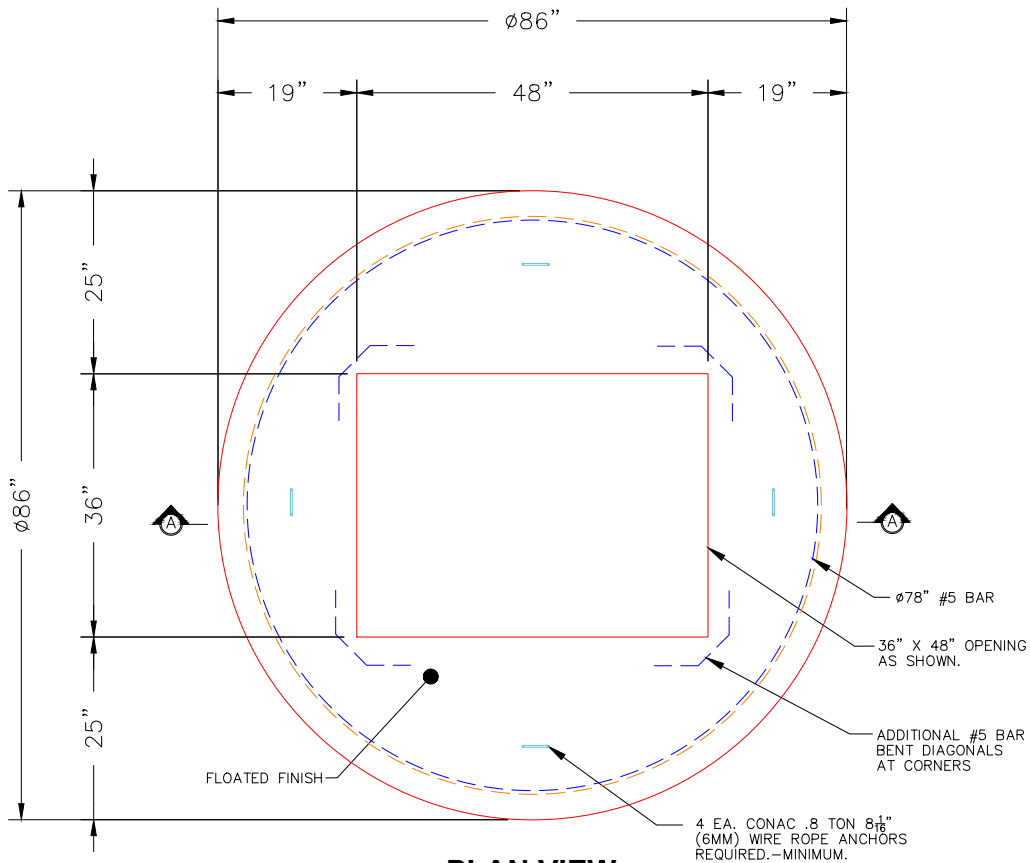
0 lb
 3424 lb
 11576 lb
 331 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb

Structure Total: 15332 lb

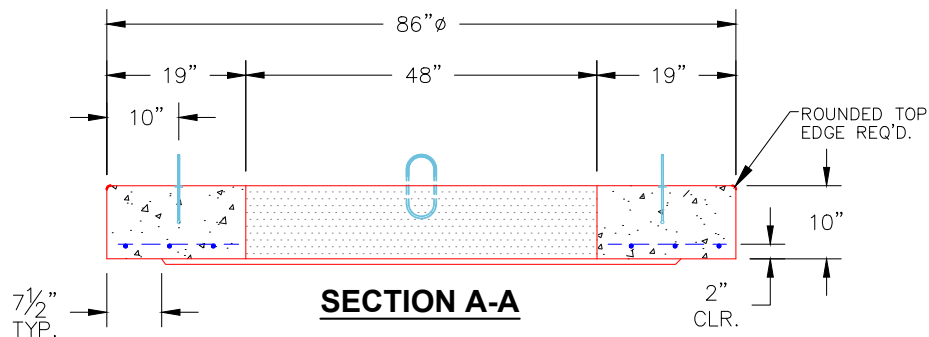
Structure Notes:

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.



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: Flat

Wall Thickness: 7"

Height (Ext): 10"

Weight (Net): 3424 lb
 Volume (Net): 0.88cu.yd

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

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:21:49 PM

PC: Celina Goff



Structure ID: 2301562

P1 MH072BAVF

MH BASE (10" F) Custom Ht T/n

- P5) 24" - CASTING HEIGHT - 7"
- P4) 48" - CON CONE w/24" HOLE F/G - 36"
- P3) 48" - MH RISER T/G - 60"
- P2) 72" - MH Transition Slab 48" Hole T/G - 15"
- P1) 72" - MH BASE (10" F) Custom Ht T/n - 67"
- 1) 72" - MH INVERT CHANNEL - FULL HEIGHT
- 1) 72" - Conseal CS-102 1.00" (Double)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 14) MH Step ML-10-TDS-NCR - 10"

0 lb
 2252 lb
 4192 lb
 3864 lb
 13101 lb
 5422 lb
 0 lb
 0 lb
 2 lb
 0 lb

 Structure Total: 28833 lb

Structure Notes:

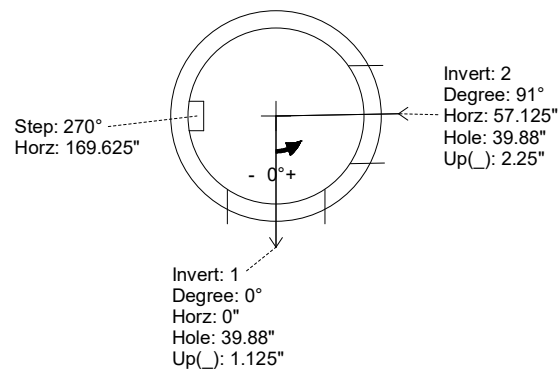
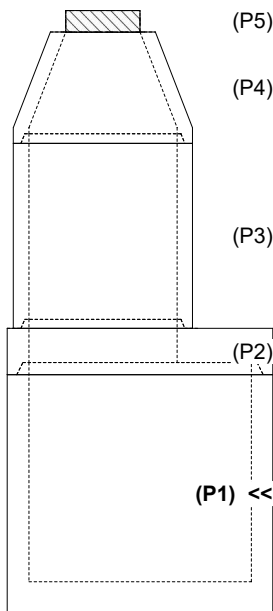
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT:
 - WALLS: PER ASTM A615 - DOUBLE MAT
 - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. INVERT CHANNEL REQUIRED
5. STEPS AT 270 DEGREES
6. 7" CASTING SUPPLIED BY OTHERS

Rim: 758.2' Rim to Invert: 15.42' Slack: 3.04" Sump: 3" Step Position: 270°

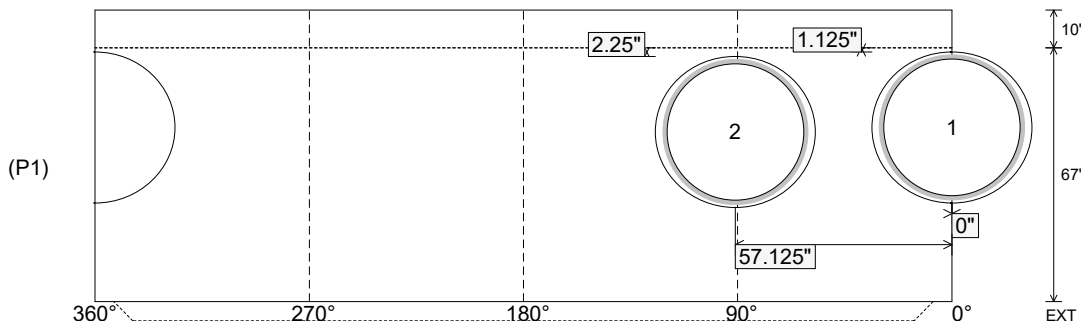
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	742.78'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	1.125"	0"
Invert 2	742.88'	91°	68.25"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	2.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 7"
 Floor Height: 10"

Height (Int): 67"
 Height (Ext): 77"

Weight (Net): 13101 lb
 Volume (Net): 3.35cu.yd

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

Plant: 100

Tech: J. Horsley - A

3/20/2026 1:21:49 PM

PC: Celina Goff



Structure ID: 2301562

P1 MH072BAVF

MH BASE (10" F) Custom Ht T/n

- P5) 24" - CASTING HEIGHT - 7"
- P4) 48" - CON CONE w/24" HOLE F/G - 36"
- P3) 48" - MH RISER T/G - 60"
- P2) 72" - MH Transition Slab 48" Hole T/G - 15"
- P1) 72" - MH BASE (10" F) Custom Ht T/n - 67"
- 1) 72" - MH INVERT CHANNEL - FULL HEIGHT
- 1) 72" - Conseal CS-102 1.00" (Double)
- 2) 48" - Conseal CS-102 1.00" (Double)
- 2) A-Lok - 1235
- 14) MH Step ML-10-TDS-NCR - 10"

0 lb
 2252 lb
 4192 lb
 3864 lb
 13101 lb
 5422 lb
 0 lb
 0 lb
 2 lb
 0 lb

 Structure Total: 28833 lb

Structure Notes:

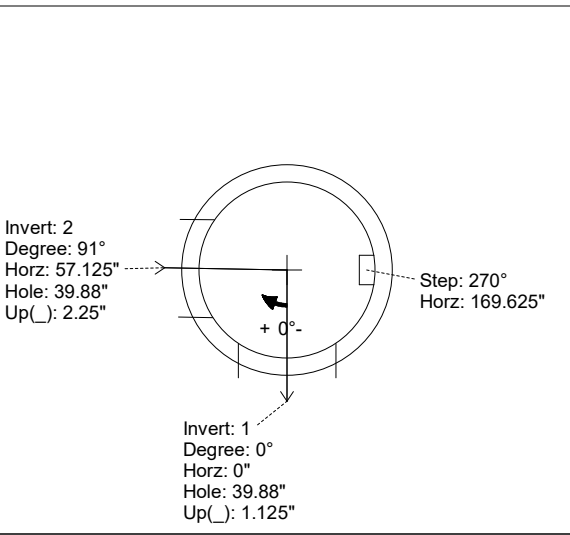
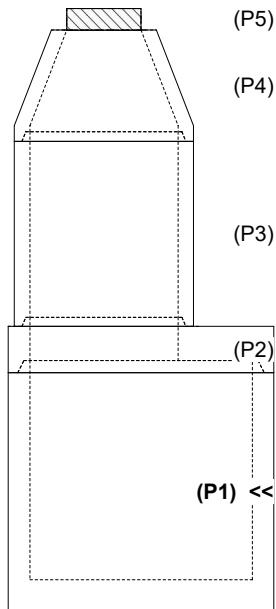
1. PER ASTM C-478 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT:
 - WALLS: PER ASTM A615 - DOUBLE MAT
 - FLOOR: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. INVERT CHANNEL REQUIRED
5. STEPS AT 270 DEGREES
6. 7" CASTING SUPPLIED BY OTHERS

Rim: 758.2' Rim to Invert: 15.42' Slack: 3.04" Sump: 3" Step Position: 270°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	742.78'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	1.125"	0"
Invert 2	742.88'	91°	68.25"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	42.266"	2.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

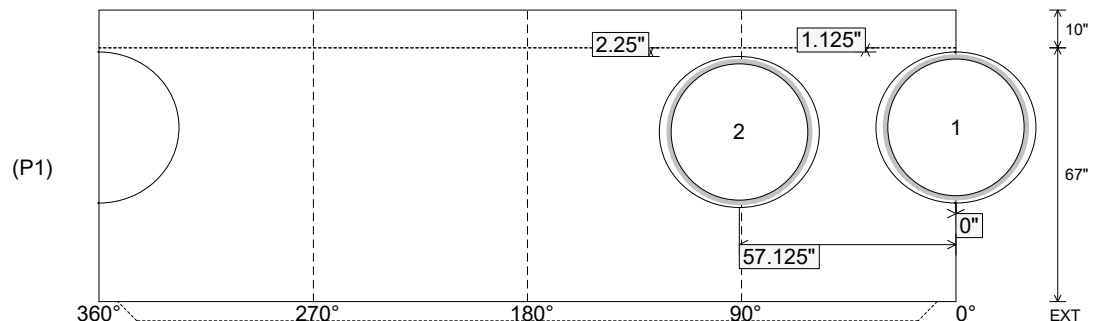
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 7"
 Floor Height: 10"

Height (Int): 67"
 Height (Ext): 77"

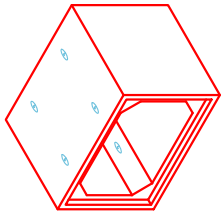
Weight (Net): 13101 lb
 Volume (Net): 3.35cu.yd



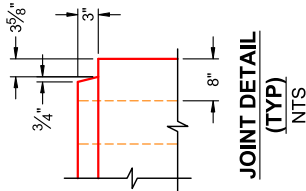
Structure ID: BC 6 x 4 (Sec B)

P1 BC048072-08WLF-9H

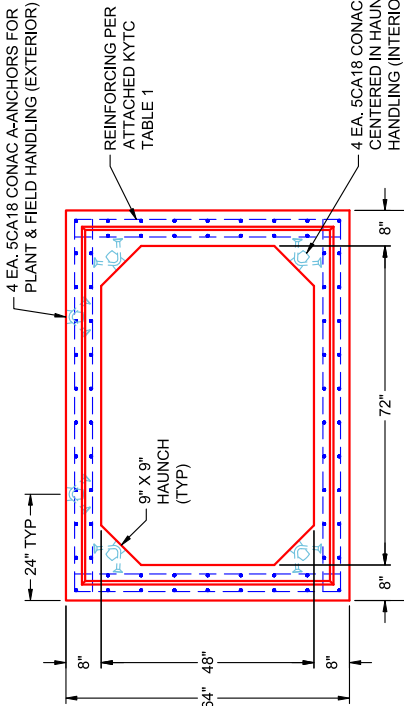
BOX CULVERT (08W/08F/08T) G/T



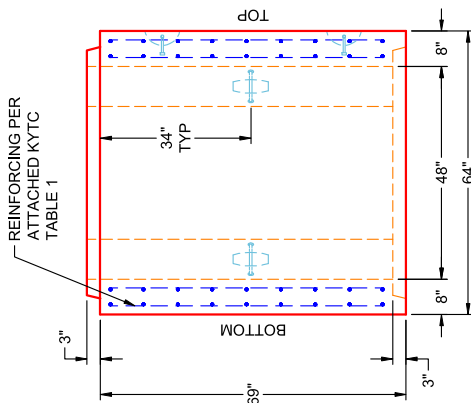
COMPONENT ISOMETRIC VIEW



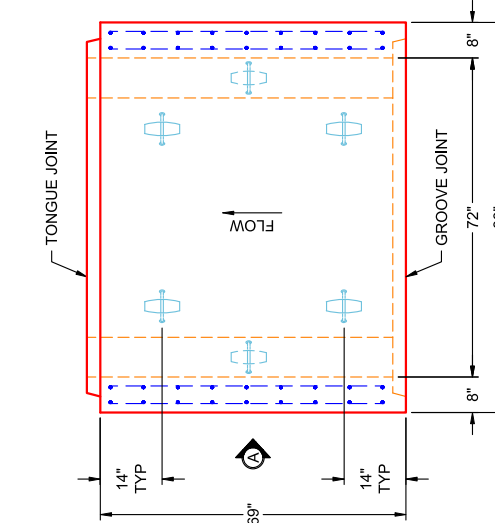
JOINT DETAIL (TYP) NTS



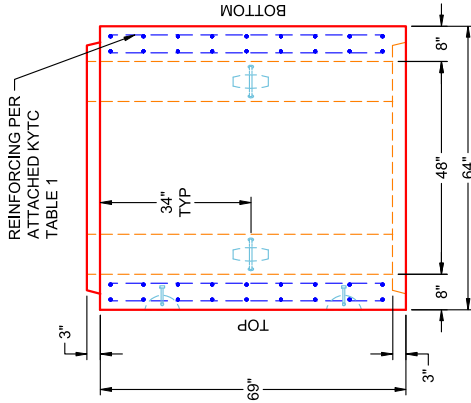
END VIEW TYPICAL



VIEW A SEC B (UPRIGHT IN MOLD)



PLAN VIEW SEC B (UPRIGHT IN MOLD)



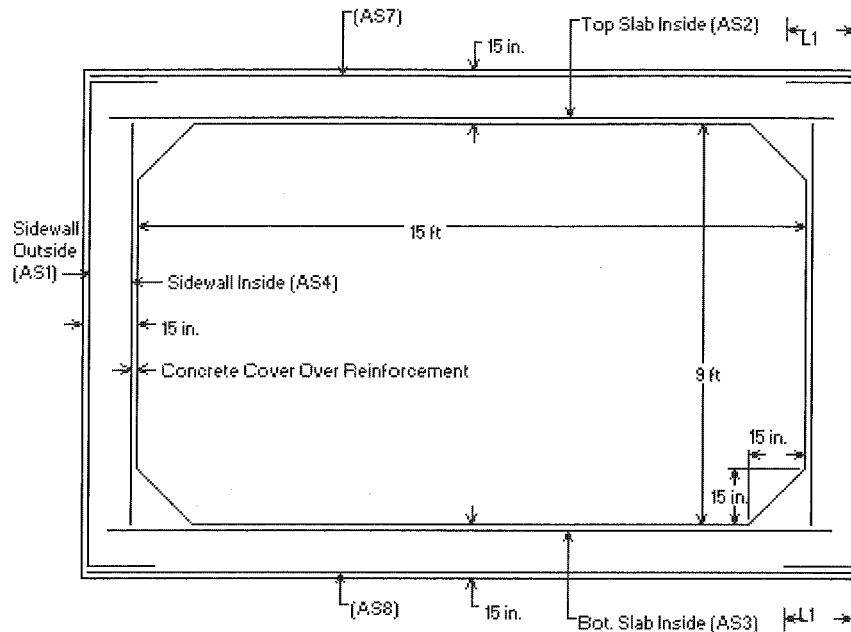
VIEW B SEC B (UPRIGHT IN MOLD)

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

PRODUCTION WORK ORDER		PRODUCT I.D.: BC048072-08WLF-9H	DESCRIPTION: 72" X 48" X 69" BOX CULVERT (8" WALLS & 9" HAUNCH)
QUALITY CONTROL CHECKLIST		PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: ERNIE DAVIS & SONS MECHANICAL, INC.
<input type="checkbox"/> ALL DIMENSIONS CORRECT.		PLANT: BEAVER DAM, KY	PROJECT: HUNTER'S RIDGE PH 1
<input type="checkbox"/> LIFTERS INSTALLED INSIDE.		WEIGHT: 13,537 LBS	STRUCTURE: BC 6 X 4 (SEC B)
<input type="checkbox"/> RECESS WITH HAUNCHES CORRECT.		TOP SECTION JOINT: TONGUE	ORDER NO: 25-2898
<input type="checkbox"/> REINFORCING CORRECT.		BASE SECTION JOINT: GROOVE	PE: J.H. ROSS
<input type="checkbox"/> SURFACE QUALITY ACCEPTABLE.		QC CHECK INITIALS:	DRAWING: K. CARDWELL
<input type="checkbox"/> LIFTERS INSTALLED OUTSIDE.			DATE: 05/29/26
<input type="checkbox"/> PRODUCT SQUARE.			SCALE: NTS
			PG. 1 OF 1



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

Notes:

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

KY Table 1

Precast Culvert KYHL-93 Design Table

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

*top slab 8"

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

*top slab 8"

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

*top slab 8"

Default Parameters

SI Unit File Customary US Unit File

Design Code: **CASHIO-LLFD**

Strength Reduction Factors: Design Code: **1**, Flexure: **0.9**, Shear: **0.25**

Axial Thrust Load Factor: **1**

Crack Width (CHBDC Only): **0.25** mm

Reinforcement Diameter:

* Sidewall Thickness	(AS1)	0.05	in.
* Top Slab Thickness	(AS2)	0.05	in.
* Bottom Slab Thickness	(AS3)	0.05	in.
* Sidewall Thickness	(AS4)	0.05	in.
* Top Slab Thickness	(AS7)	0.05	in.
* Bottom Slab Thickness	(AS8)	0.05	in.

Maximum Spacing:

* Sidewall Thickness	4	in.
* Top Slab Thickness	4	in.
* Bottom Slab Thickness	4	in.
* Sidewall Thickness	4	in.
* Top Slab Thickness	4	in.
* Bottom Slab Thickness	4	in.

Soil Load Data:

Soil Unit Weight	120	pcf
Minimum Lateral Pressure Coefficient	0.25	
Maximum Lateral Pressure Coefficient	0.5	

Vertical Arching Factor: **Embankment/Compacted**

[Return to Main Menu](#)

Default Parameters

Data Directory: **Jeremiah Littleton Documents**

Section Length: **12** ft

Box Geometry:

Top Slab Thickness	1	in.
Bottom Slab Thickness	1	in.
Sidewall Thickness	1	in.
Horizontal Haunch Length	1	in.
Vertical Haunch Length	1	in.

Clear Concrete Loops:

Top Slab Outside Face	2	in.
Top Slab Outside Face	1	in.
Bottom Slab Outside Face	1	in.
Sidewall Outside Face	1	in.
Top Slab Inside Face	1	in.
Bottom Slab Inside Face	1	in.
Sidewall Inside Face	1	in.

Minimum Depth of Fill: **< 2 ft**
 Minimum Depth of Fill: **>= 2 ft**

Reinforcement Type: **Welded Wire**

Material Properties:

Main Reinforcement Yield Strength	65000	psi
Design Concrete Strength	5000	psi
Concrete Unit Weight	150	pcf
Stirrup Reinforcement Developable Yield Stress	60000	psi
Total Service Stress Limit	100	%

[Restore Default Settings](#) [Return to Main Menu](#)

Live Load Data

Live Load Type (Max Z): **Interstate/Tandem** Magnitude (k): **25**

HS-Series Interstate/Tandem Cooper Series CHBDC Truck Tandem/Tandem Other None

Direction of Traffic: **Parallel** To Span

Impact Factor Options: **Design Code** Design Code: **1**

Lane Load: **0** lb/ft

Live Load Distribution Factor (LLDF): **1.15**

Fluid Levels:

Depth of Fluid	1	* Hise
Fluid Unit Weight	62.5	pcf

Surcharge Loads:

Uniform Vertical	0	lb/ft
Lateral - Top of Culvert (LLTC)	90	lb/ft
Lateral - Bottom of Culvert (LLBC)	90	lb/ft

User Specified (Not by Code):

Length	10	in.
Width	20	in.
By Code	0	in.
By Code	10	in.
By Code	10	in.
By Code	20	in.

Interstate/Tandem Truck Wheel Layout:

A=Axle Load

[Return to Main Menu](#)

Live Load Data

Live Load Type (Max Z): **Interstate/Tandem** Magnitude (k): **25**

HS-Series Interstate/Tandem Cooper Series CHBDC Truck Tandem/Tandem Other None

Direction of Traffic: **Parallel** To Span

Impact Factor Options: **Design Code** Design Code: **1**

Lane Load: **0** lb/ft

Live Load Distribution Factor (LLDF): **1.15**

Fluid Levels:

Depth of Fluid	1	* Hise
Fluid Unit Weight	62.5	pcf

Surcharge Loads:

Uniform Vertical	0	lb/ft
Lateral - Top of Culvert (LLTC)	90	lb/ft
Lateral - Bottom of Culvert (LLBC)	90	lb/ft

User Specified (Not by Code):

Length	10	in.
Width	20	in.
By Code	0	in.
By Code	10	in.
By Code	10	in.
By Code	20	in.

Interstate/Tandem Truck Wheel Layout:

A=Axle Load

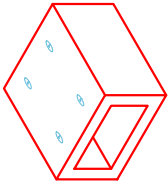
[Return to Main Menu](#)



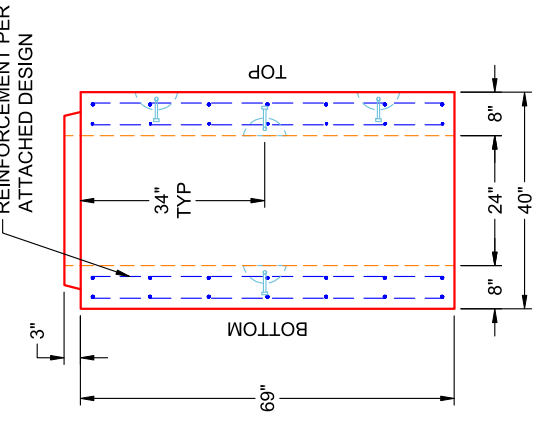
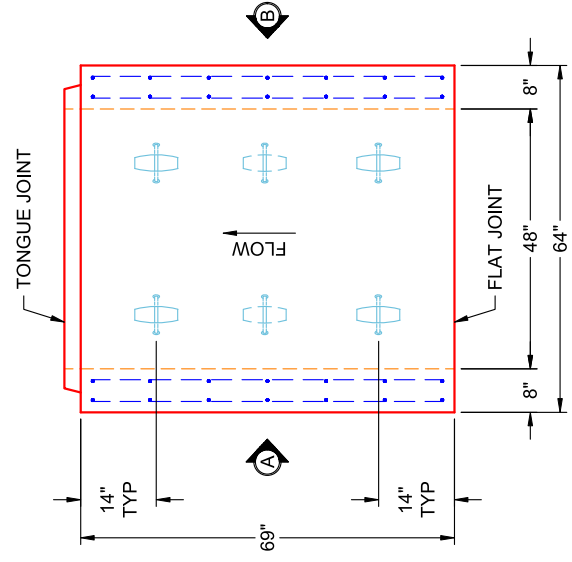
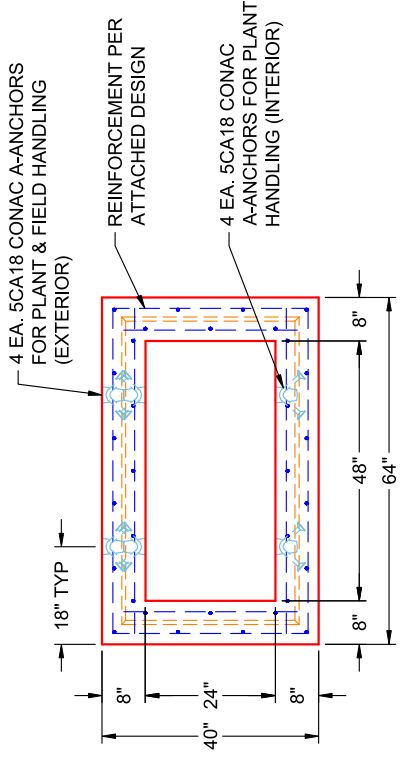
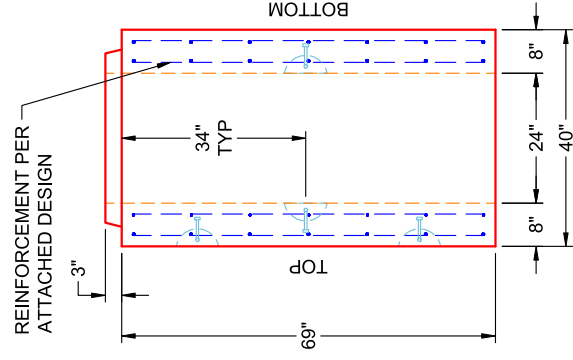
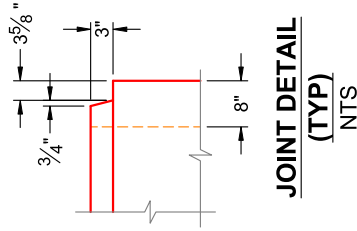
Structure ID: BC 4 x 2 (PC 23)

P1 BC048024-08WLF

BOX CULVERT (08W/08F/08T) No Haunch & Groove



**COMPONENT
ISOMETRIC VIEW**



GENERAL NOTES:

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

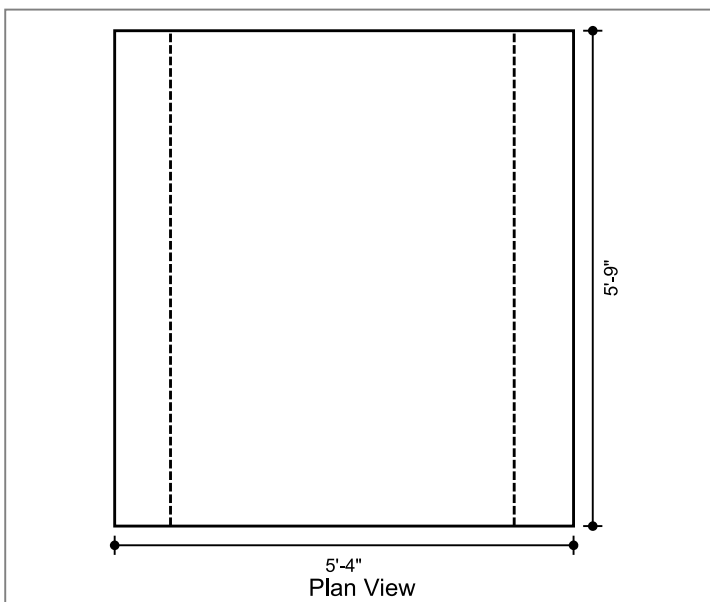
Project : Alcoa Outfall
 Task :
 Job No. : 25-2073

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

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

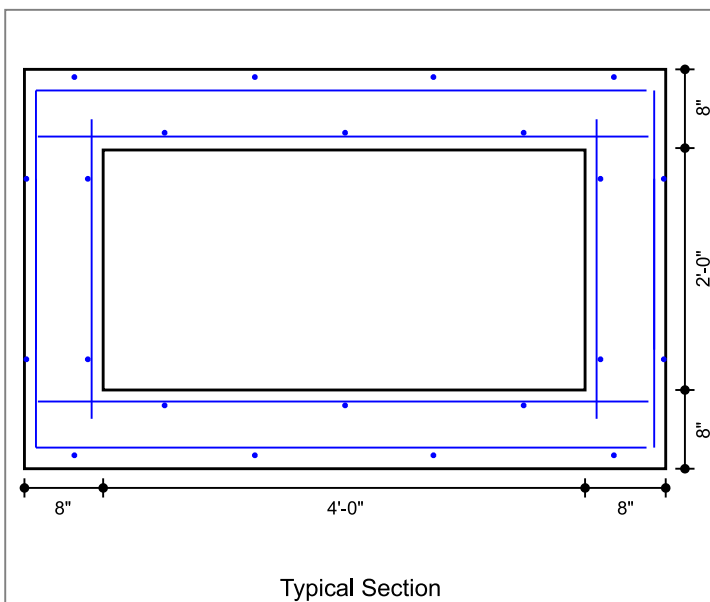
Physical Dimensions

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: _____

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etc of 3

Project : Alcoa Outfall

Task :

Client: Bowen Engineering Co

Job No. : 25-2073

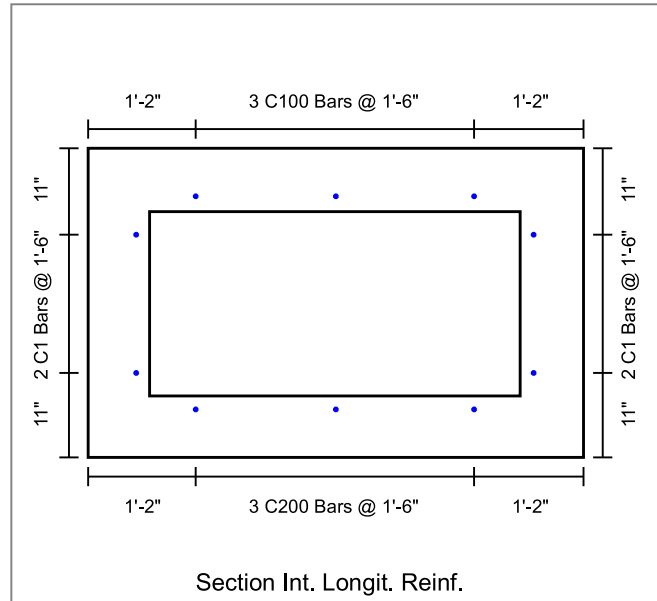
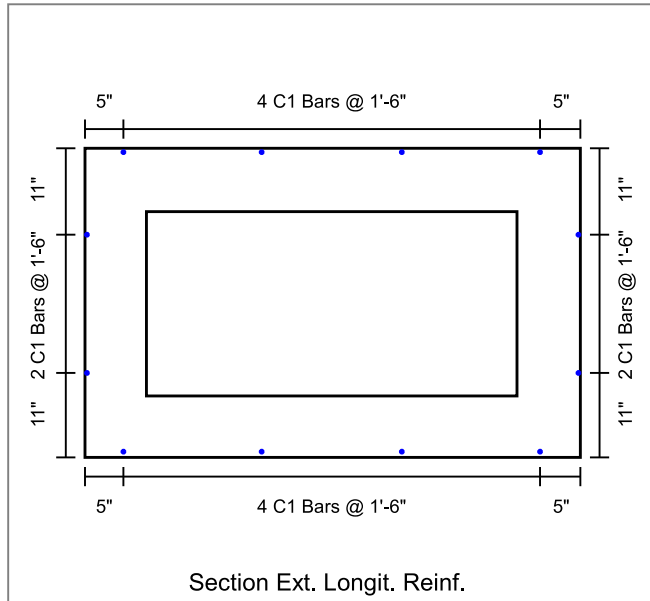
File: 4x2 BC Four Sided (no haunch) - 25-2073 Alcoa Outfall

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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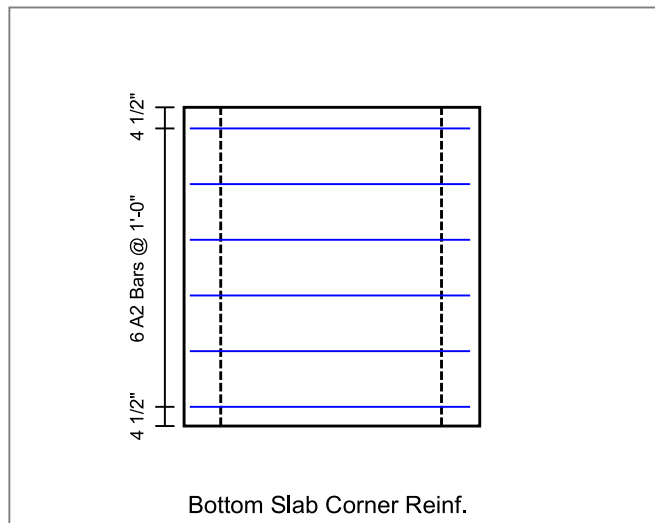
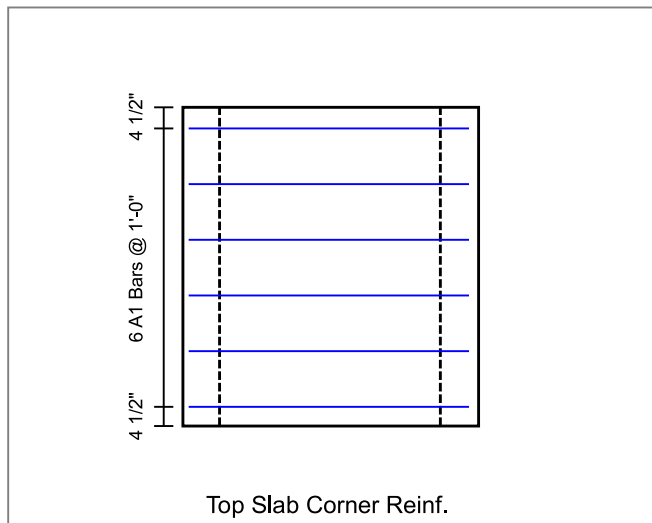
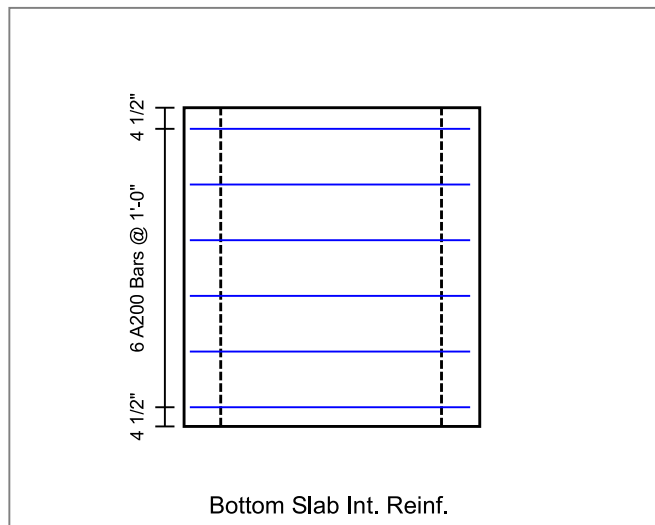
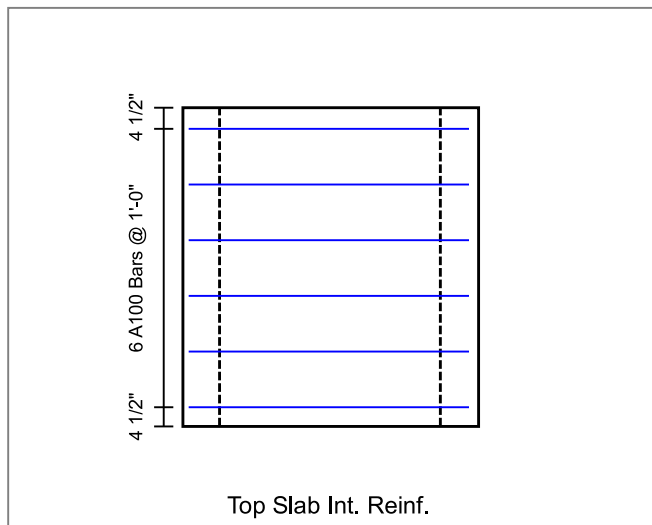
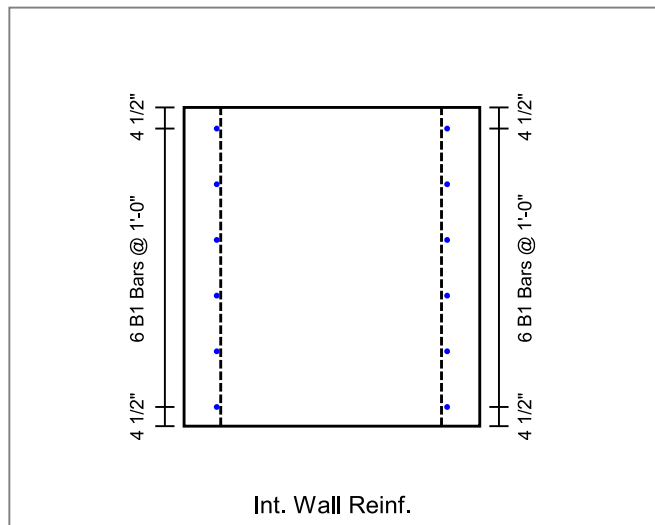
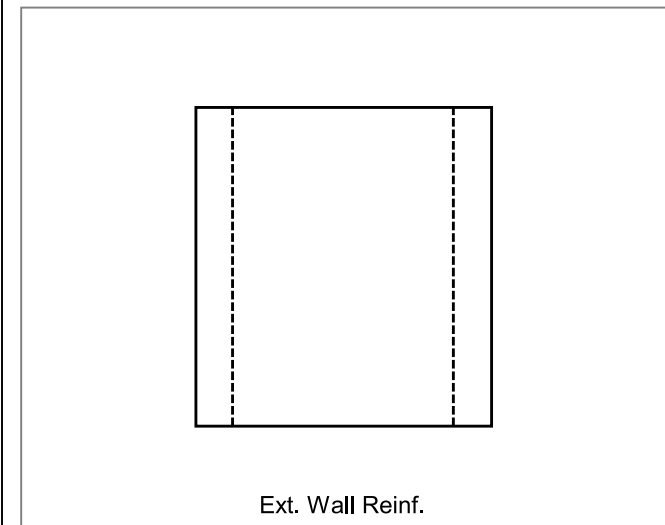
Project : Alcoa Outfall

Client: Bowen Engineering Co

Task :

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

Page 3 of 3



Job Name: 25-4726 Omega Fitness
 Job Location: Newbern, TN
 Contractor: Ainsworth Land Development, LLC

Plant: Beaver Dam
 5/28/2026 12:10:37 PM

Tech: S. Felletter
 PC: T. Lewis



Structure ID: DS-2

P2 BX036036-06LD08W-S

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

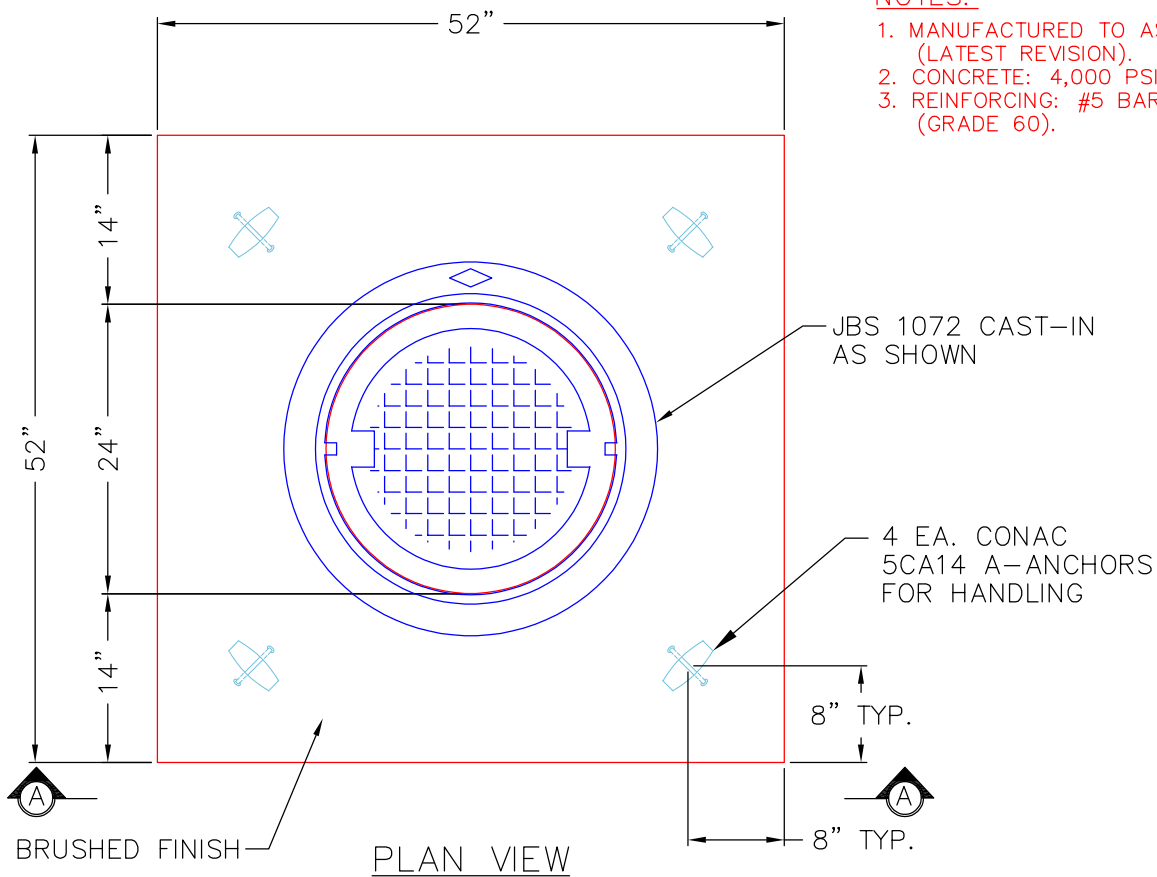
- P3) 24" - CASTING HEIGHT - 0"
- P2) 36" x 36" - CB FLAT TOP 8"W w/24" F/G F/F - 6"
- P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 46"
- 1) CASTING - JBS 1072 F/C STORM
- 1) 36" x 36" - Conseal CS-102 1.00"
- 1) 24" - Conseal CS-102 1.00"
- 1) Hole - 16
- 1) Hole - 8
- 4) Horiz Slot n/n - 36"X6"

0 lb
 1134 lb
 6646 lb
 250 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 8030 lb

Structure Notes:
 1. PER ASTM C913 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING BY ICAST (JBS 1072 F/C "STORM").
 CAST-IN.
 4. PREFORMED INVERT BY OTHERS.

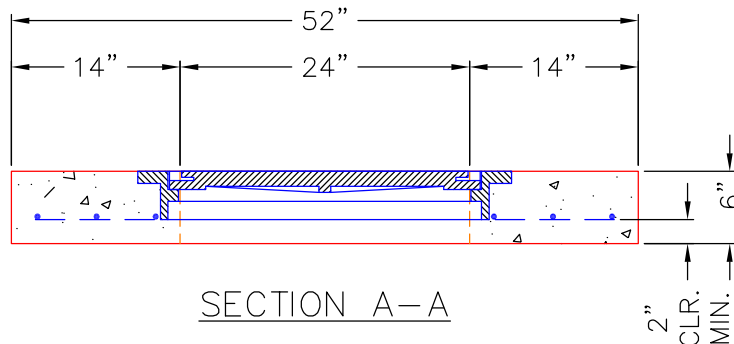
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

RIM AND RECTANGULAR THROAT ELEVATIONS
 ADJUSTED SLIGHTLY TO LOCATE CORRECTLY IN
 BOX



NOTES:

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



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 6"

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

Job Name: 25-4726 Omega Fitness
 Job Location: Newbern, TN
 Contractor: Ainsworth Land Development, LLC

Plant: Beaver Dam
 5/29/2026 8:28:26 AM

Tech: S. Felletter
 PC: T. Lewis



Structure ID: DS-2

P1 BX3636-08BAVF

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

P3) 24" - CASTING HEIGHT - 0"	0 lb
P2) 36" x 36" - CB FLAT TOP 8"W w/24" F/G F/F - 6"	1134 lb
P1) 36" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 46"	6646 lb
1) CASTING - JBS 1072 F/C STORM	250 lb
1) 36" x 36" - Conseal CS-102 1.00"	0 lb
1) 24" - Conseal CS-102 1.00"	0 lb
1) Hole - 16	0 lb
1) Hole - 8	0 lb
4) Horiz Slot n/n - 36"X6"	0 lb
Structure Total:	8030 lb

Structure Notes:
 1. PER ASTM C913 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING BY ICAST (JBS 1072 F/C "STORM").
 CAST-IN.
 4. PREFORMED INVERT BY OTHERS.

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

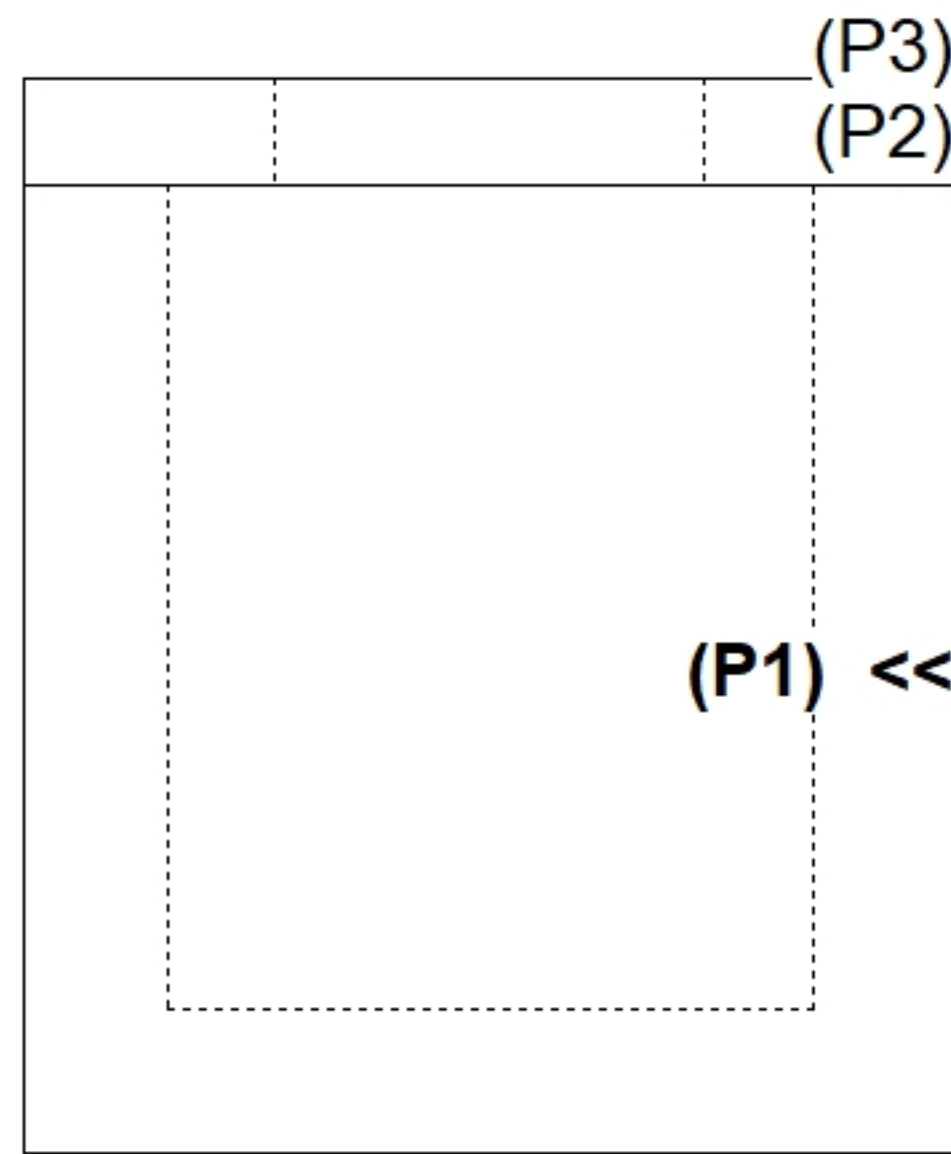
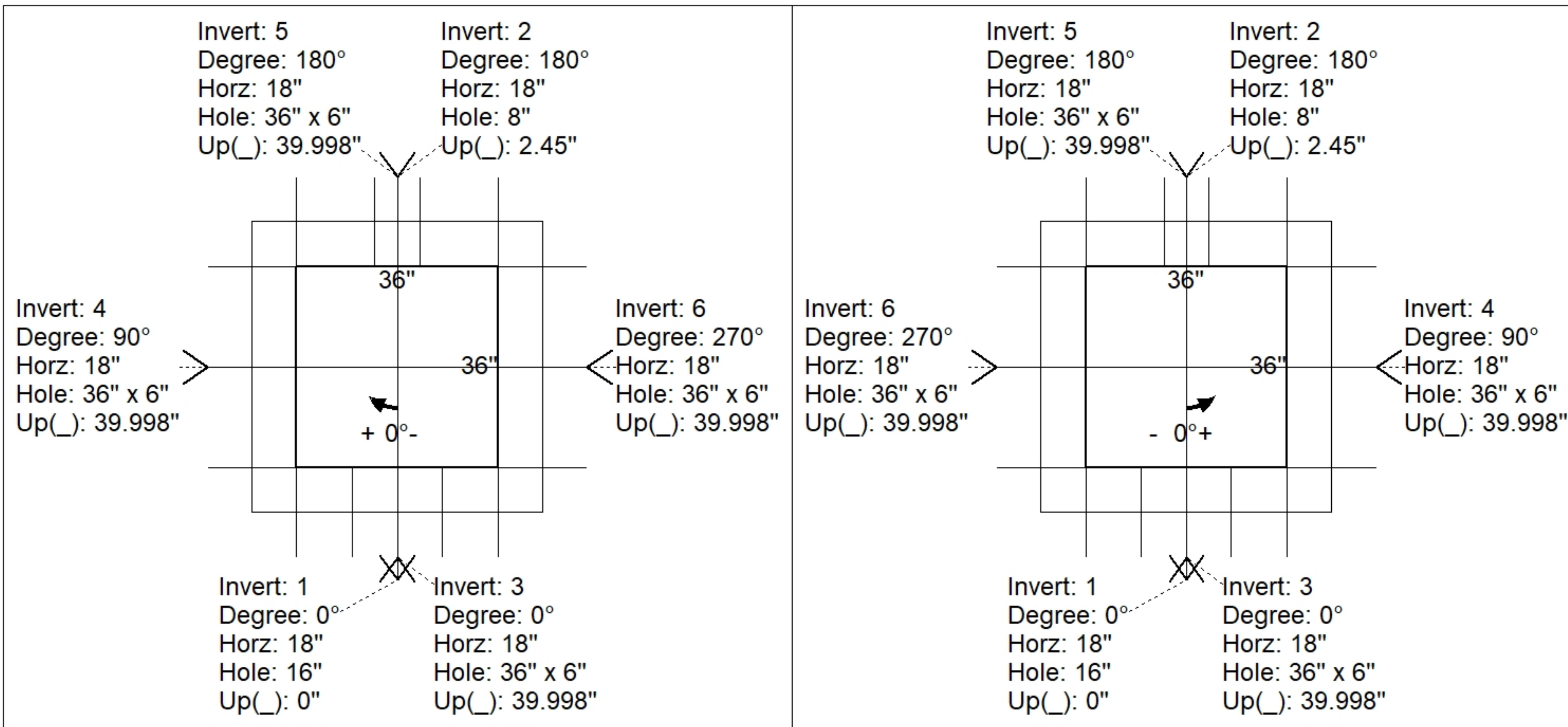
RIM AND RECTANGULAR THROAT ELEVATIONS
 ADJUSTED SLIGHTLY TO LOCATE CORRECTLY IN
 BOX

Rim: 323.64' Rim to Invert: 4.24' Slack: 0.13" Sump: 1.25" Step Position:

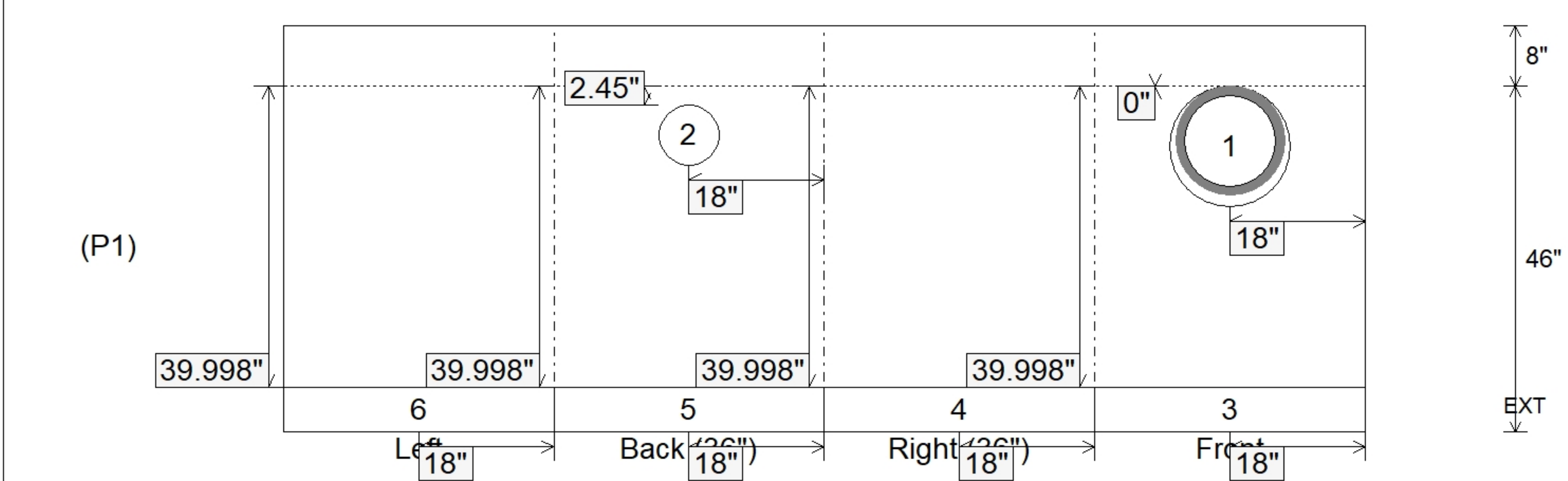
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	319.4'	0°	26"	12" ADS N-12	14.5"	Hole 16	16"	16"	0"	0"
Invert 2	319.5'	180°	26"	8" Orifice	8"	Hole 8	8"	8"	2.45"	0"
Invert 3	322.629'	0°	26"	36" x 6" Horiz Slot	36" x 6"	Horiz Slot 36"X6"	36" x 6"	36"	39.998"	0"
Invert 4	322.629'	90°	26"	36" x 6" Horiz Slot	36" x 6"	Horiz Slot 36"X6"	36" x 6"	36"	39.998"	0"
Invert 5	322.629'	180°	26"	36" x 6" Horiz Slot	36" x 6"	Horiz Slot 36"X6"	36" x 6"	36"	39.998"	0"
Invert 6	322.629'	270°	26"	36" x 6" Horiz Slot	36" x 6"	Horiz Slot 36"X6"	36" x 6"	36"	39.998"	0"
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): 46" Height (Ext): 54"	Weight (Net): 6646 lb Volume (Net): 1.7cu.yd
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Job Name: 25-2898 - Hunter's Ridge Ph.1	Plant: 100	Tech: Jared - A	
Job Location: Owensboro, KY	5/29/2026 8:44:08 AM	PC: A. Chambers	
Contractor: Ernie Davis & Sons Mechanical, Inc.			

Structure ID: AE-2

P1 BX2436-08BVF

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

P2) 24" x 36" - CASTING HEIGHT - 6"
P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 32"
1) 24" x 36" - Conseal CS-102 1.00"
1) Hole - 22

0 lb
4406 lb
0 lb
0 lb

Structure Total: 4406 lb

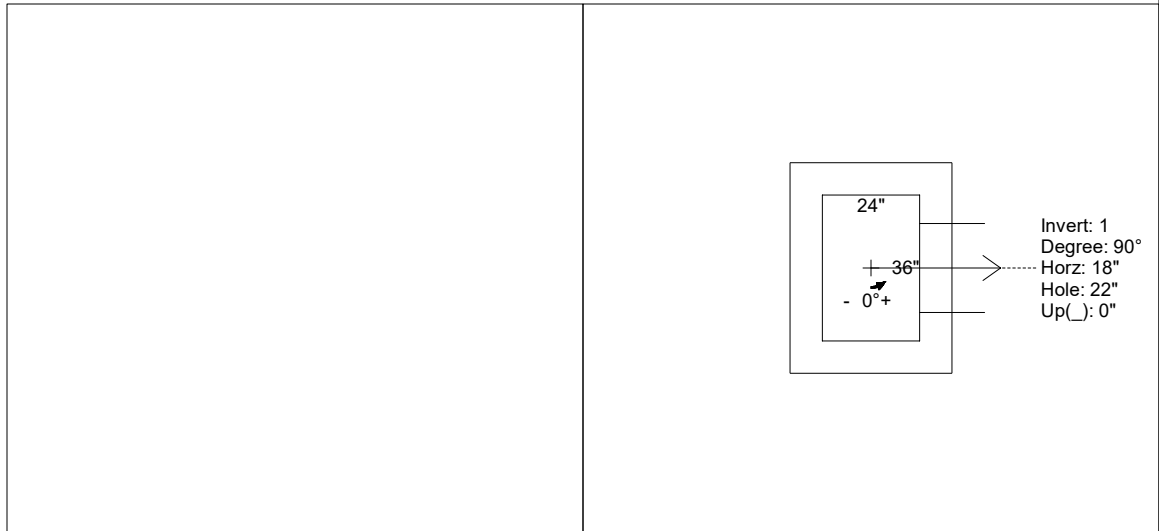
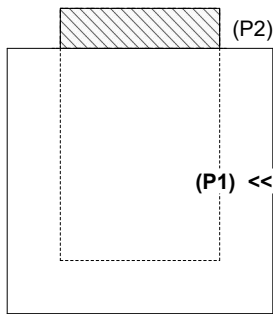
- Structures Notes:
- PER ASTM C-913 SPECIFICATIONS
 - CONCRETE: 4,000 PSI AT 28 DAYS
 - REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 - NO STORM INVERT
 - NO STEPS
 - HOE-525 FRAME, GRATE, & CURB HOOD SUPPLIED BY OTHERS

Rim: 455.47' Rim to Invert: 3' Slack: 0.25" Sump: 2.25" Step Position:

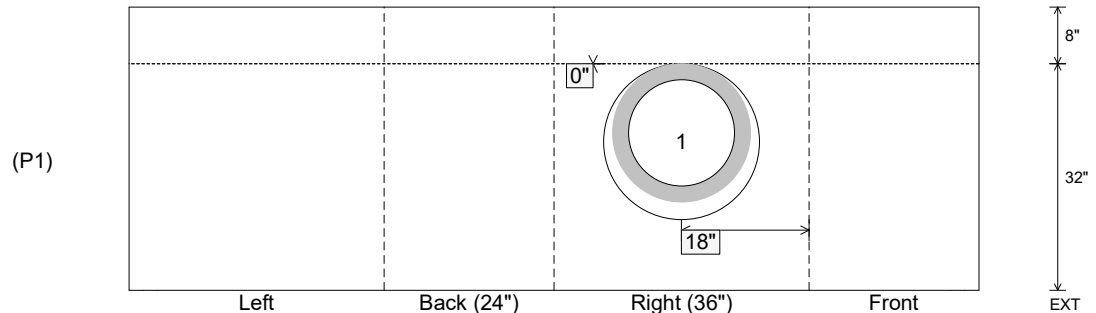
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	452.47'	90°	26"	15" RCP B WALL	19.5"	Hole 22	22"	22"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 32"
Height (Ext): 40"

Weight (Net): 4406 lb
Volume (Net): 1.12cu.yd

Job Name: 25-2898 - Hunter's Ridge Ph.1	Plant: 100	Tech: Jared - A	
Job Location: Owensboro, KY	5/29/2026 8:44:06 AM	PC: A. Chambers	
Contractor: Ernie Davis & Sons Mechanical, Inc.			

Structure ID: AB-2

P1 BX2436-08BVF

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

- P2) 24" x 36" - CASTING HEIGHT - 6"
- P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 32"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 1) Hole - 22

0 lb
4328 lb
0 lb
0 lb

Structure Total: 4328 lb

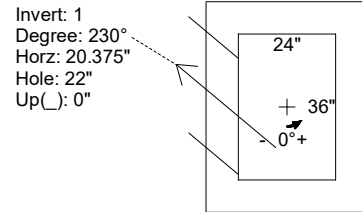
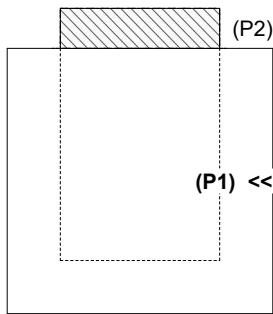
- Structures Notes:
1. PER ASTM C-913 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 4. NO STORM INVERT
 5. NO STEPS
 6. HOE-525 FRAME, GRATE, & CURB HOOD SUPPLIED BY OTHERS

Rim: 424.8' Rim to Invert: 3' Slack: 0.25" Sump: 2.25" Step Position:

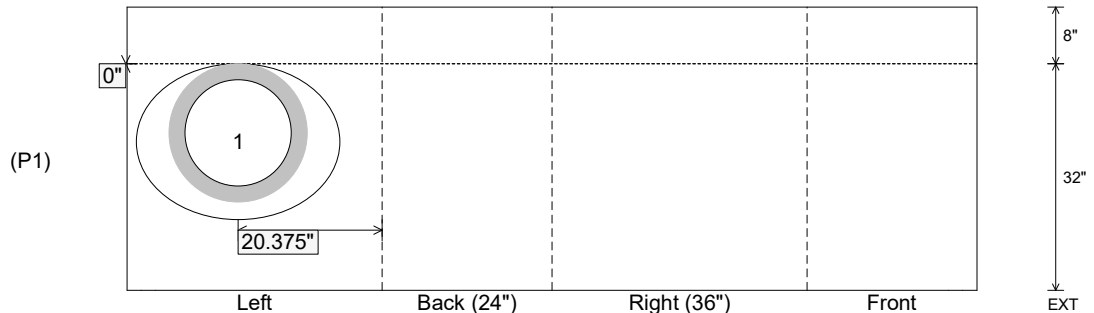
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	421.8'	230°	21.625"	15" RCP B WALL	19.5"	Hole 22	22"	28.719"	0"	9.5"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 32" Height (Ext): 40"	Weight (Net): 4328 lb Volume (Net): 1.11cu.yd
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Job Name: 26-1368 Freeman Lake Park Parking Lot Project
 Job Location: Elizabethtown, KY
 Contractor: Kauffeld Brothers Construction

Plant: Beaver Dam
 5/28/2026 9:51:12 AM

Tech: S. Felletter
 PC: T. Ryan



Structure ID: YI #2-9 INE7

P1 BX3030-06W08F-BAVF

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

- P2) 30" x 30" - CASTING HEIGHT - 0"
- P1) 30" x 30" - BOX BASE 6inW, 8inF, Variable Ht F/n - 54"
- 1) HOE R-4215-C INDOT Type 7 Convex Grate
- 1) 30" x 30" - Conseal CS-102 1.00"
- 1) Hole - 20
- 1) Hole - 10
- 1) Hole - 22

0 lb
 4710 lb
 250 lb
 0 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 4960 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

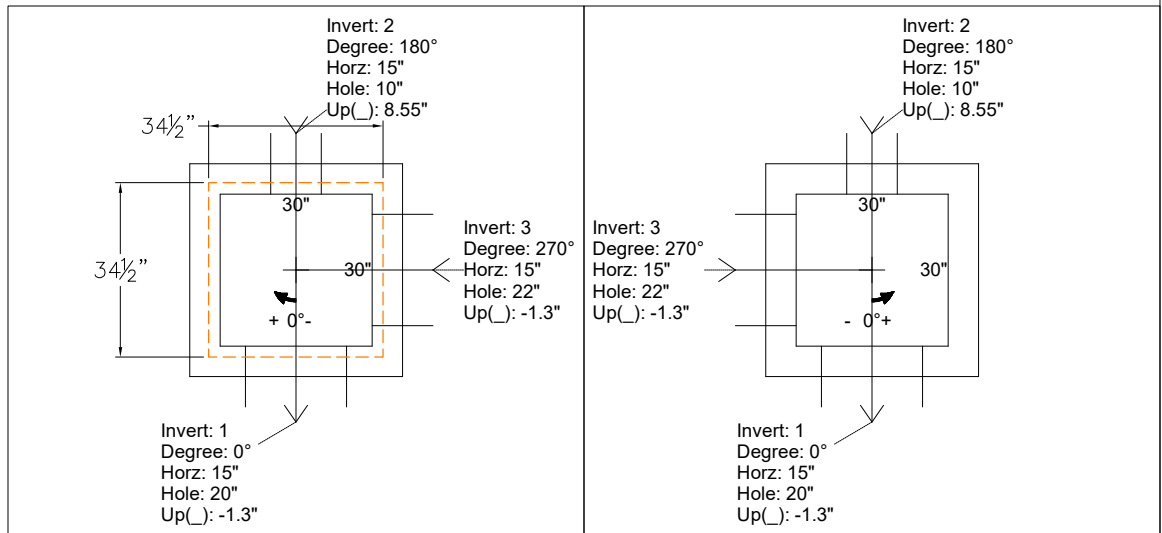
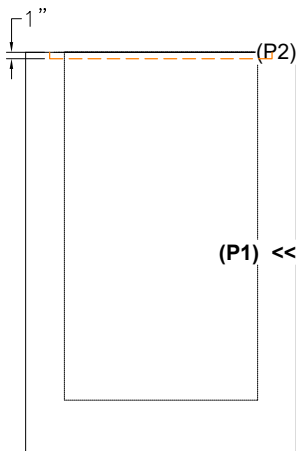
REINFORCING PER ASTM A615 (GRADE 60).
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 759.11' Rim to Invert: 4.5' Slack: 0" Sump: 0" Step Position:

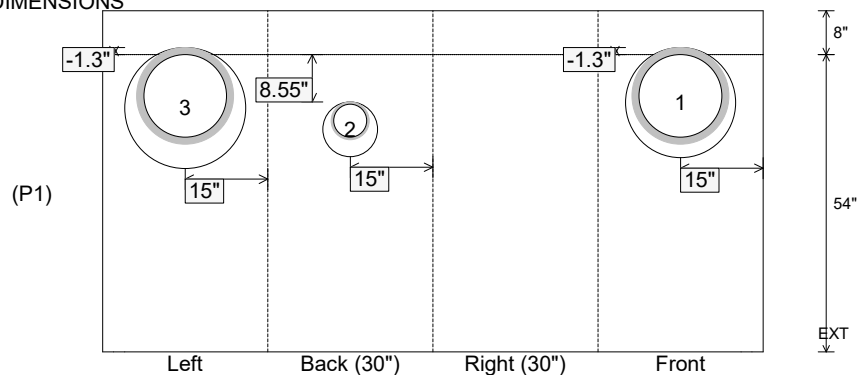
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	754.61'	0°	21"	15" HDPE	17.6"	Hole 20	20"	20"	-1.3"	0"
Invert 2	755.36'	180°	21"	6" HDPE	6.9"	Hole 10	10"	10"	8.55"	0"
Invert 3	754.61'	270°	21"	15" HDPE	17.6"	Hole 22	22"	22"	-1.3"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: n/a

Wall Thickness: 6"
 Floor Height: 8"

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

Weight (Net): 4710 lb
 Volume (Net): 1.2cu.yd

Structure ID: CI #4-5 CBIF

P1 BX2424-08BAVF

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

P3) 24" x 24" - CASTING HEIGHT - 5" P2) 24" x 24" - BOX RISER 8inW F/G - 30" P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht T/n - 37" 1) CASTING - HOE KY-465 SET (CBI TY F) 2) 24" x 24" - Conseal CS-102 1.00" 1) Hole - 20	0 lb 2578 lb 4029 lb 465 lb 0 lb 0 lb ----- Structure Total: 7072 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)

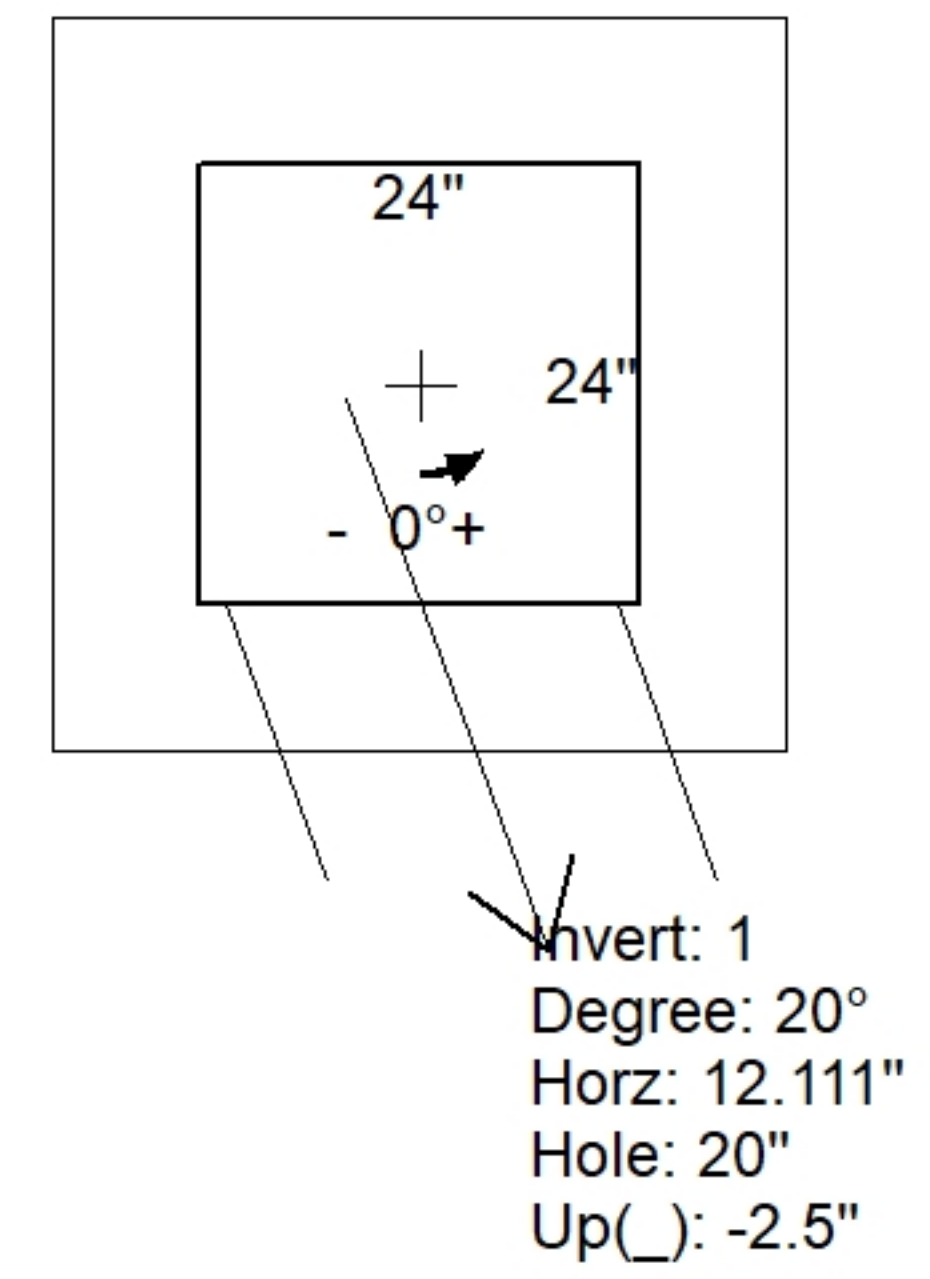
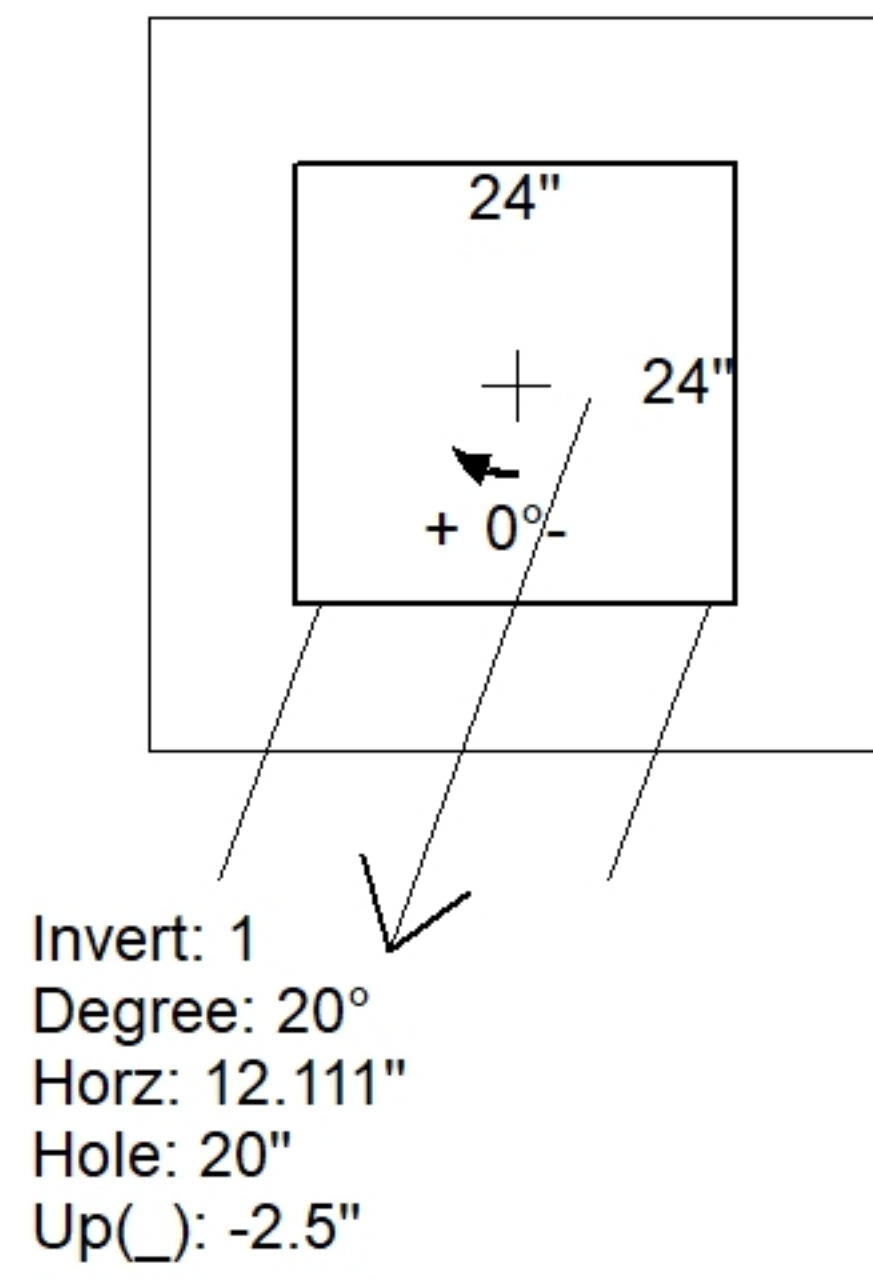
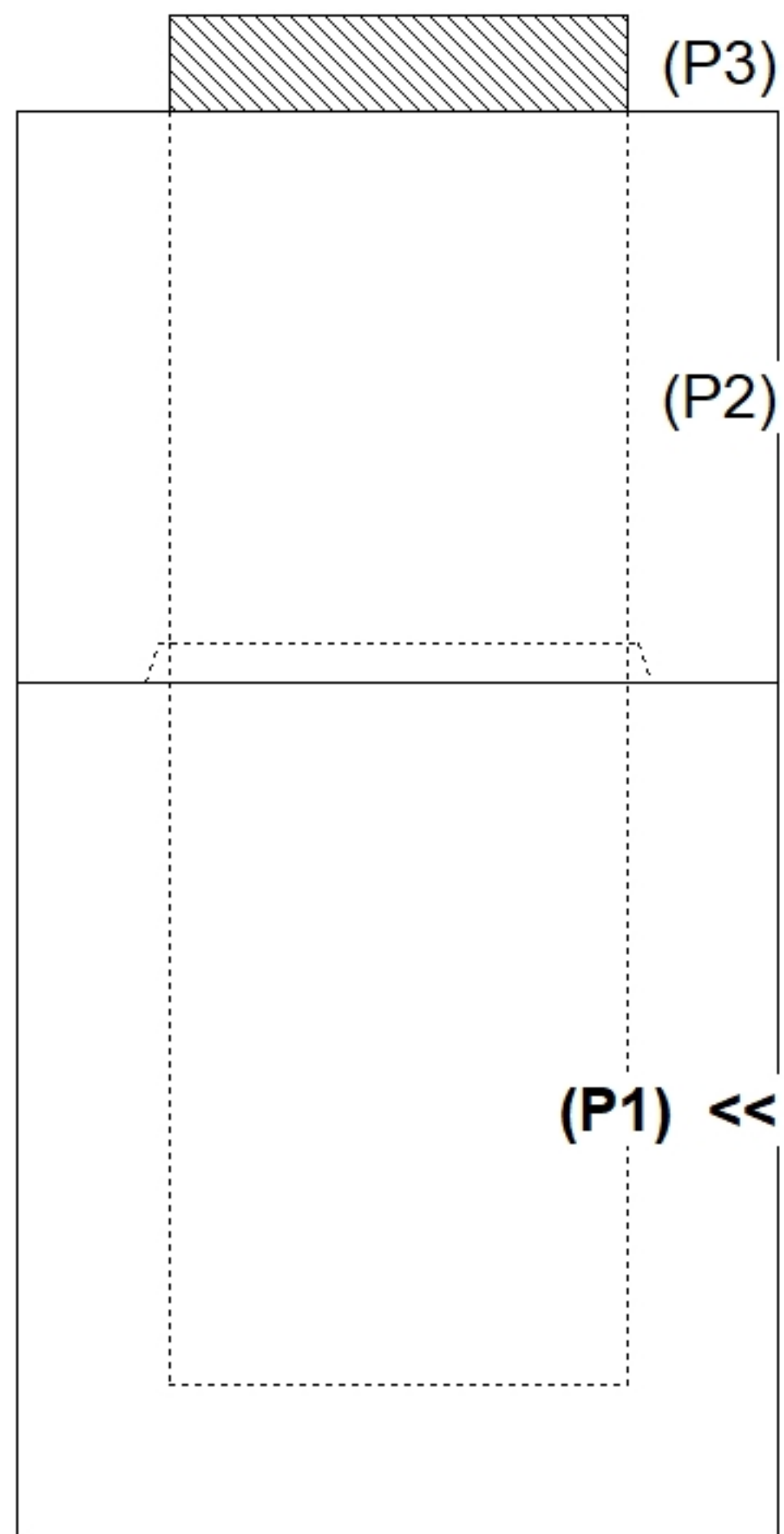
REINFORCING PER ASTM A615 (GRADE 60).
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

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

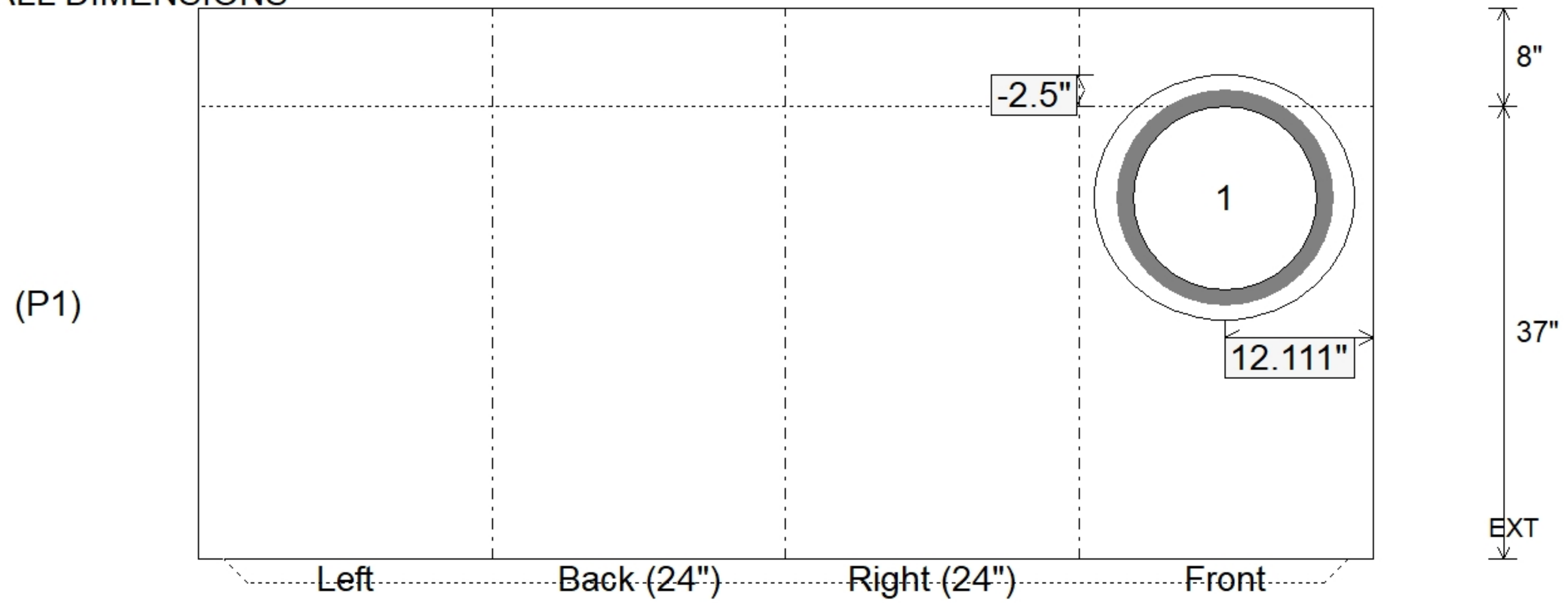
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	766.25'	20°	23.023"	15" HDPE	17.6"	Hole 20	20"	21.284"	-2.5"	-4"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Tongue	Wall Thickness: 8"	Height (Int): 37"
Coating (Ext):	Seam Dn: n/a	Floor Height: 8"	Height (Ext): 45"
		Weight (Net): 4029 lb	
		Volume (Net): 1.03cu.yd	

Job Name: 26-1368 Freeman Lake Park Parking Lot Project	Plant: Beaver Dam	Tech: S. Felletter	
Job Location: Elizabethtown, KY	5/29/2026 8:39:17 AM	PC: T. Ryan	
Contractor: Kauffeld Brothers Construction			

Structure ID: CI #2-3 CBIF

P2 BX2424-08R30

BOX RISER 8inW F/G

P3) 24" x 24" - CASTING HEIGHT - 5"	0 lb
P2) 24" x 24" - BOX RISER 8inW F/G - 30"	2578 lb
P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht T/n - 37"	4029 lb
1) CASTING - HOE KY-465 SET (CBI TY F)	465 lb
2) 24" x 24" - Conseal CS-102 1.00"	0 lb
1) Hole - 20	0 lb
Structure Total:	7072 lb

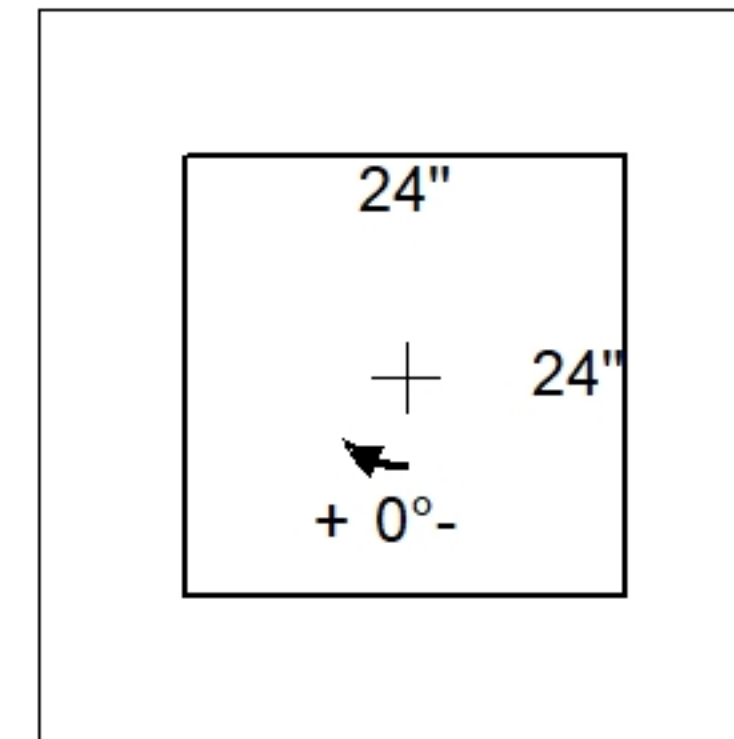
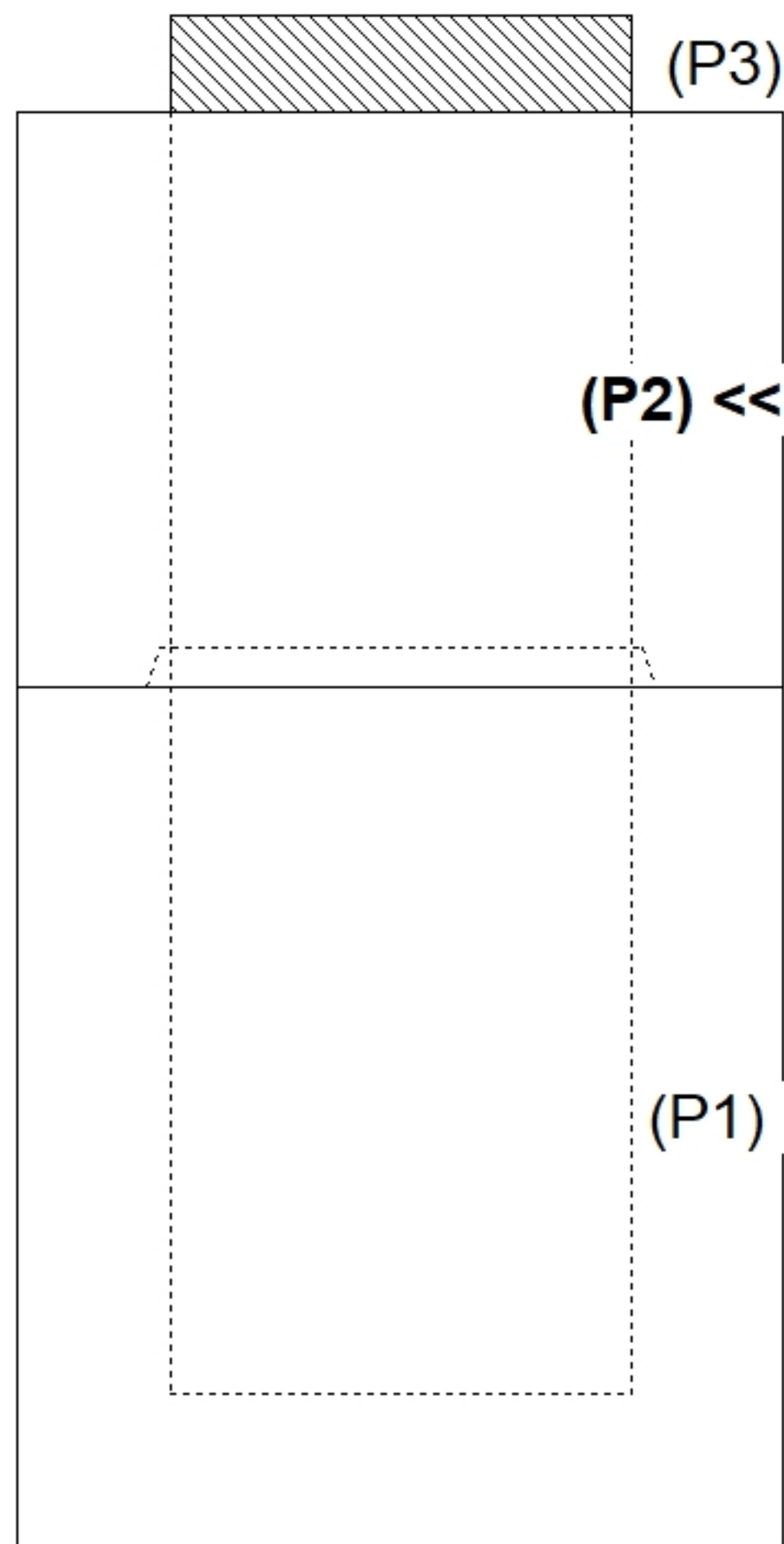
Structure Notes:
 1. KYTC CBI TYPE F / ASTM C913 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING BY ICAST (HOE KY-465 SET)

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

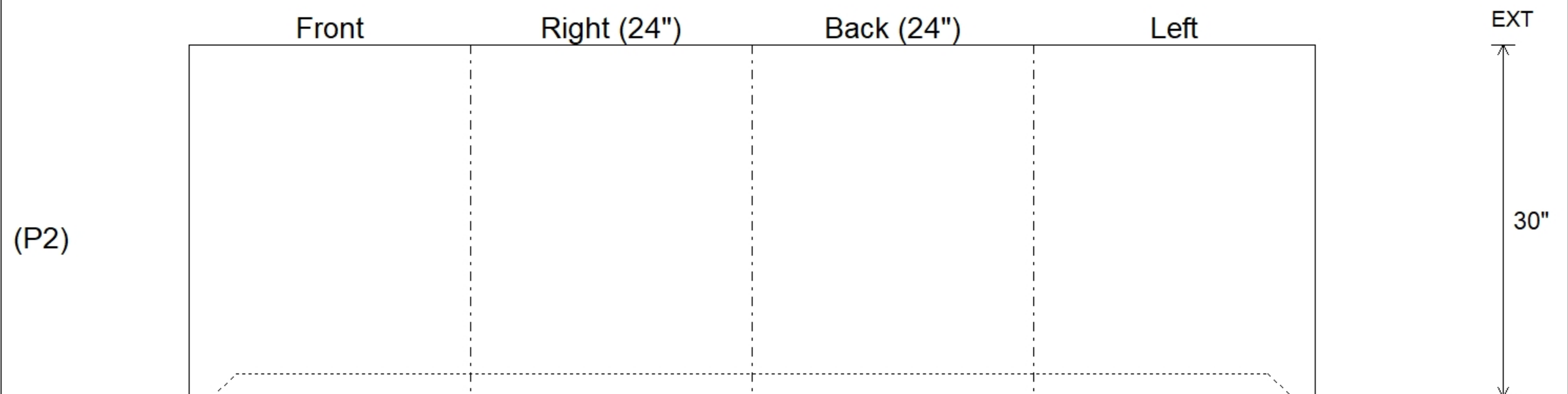
Rim: 766.6' Rim to Invert: 6' Slack: 0" Sump: 0" Step Position:

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

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Flat	Wall Thickness: 8"	Height (Int): 30"	Weight (Net): 2578 lb
Coating (Ext):	Seam Dn: Groove	Floor Height: 0"	Height (Ext): 30"	Volume (Net): 0.66cu.yd

Structure ID: JB #2-7 JBB

P2 BX2430-08R42

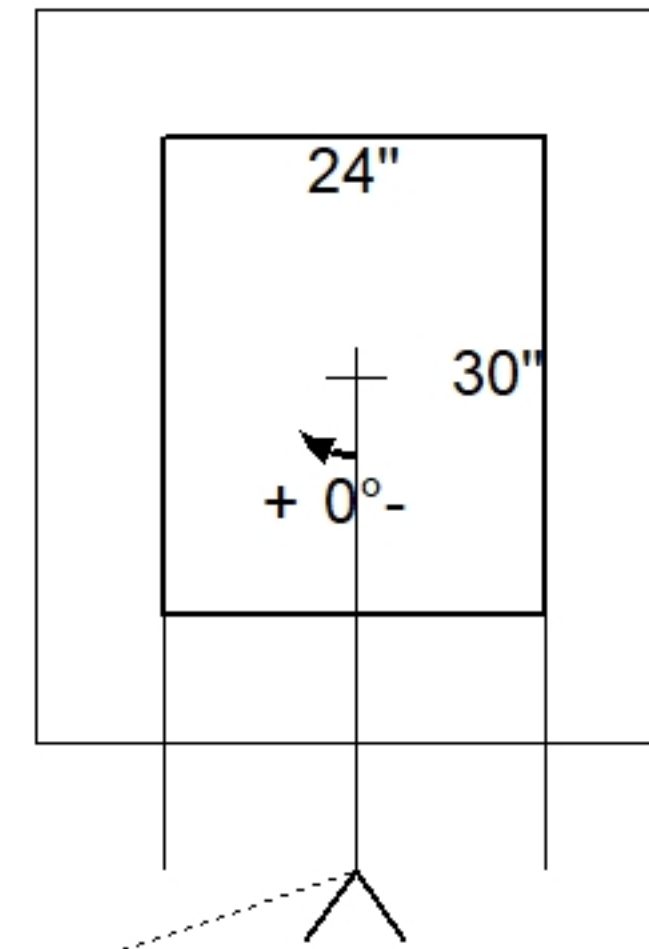
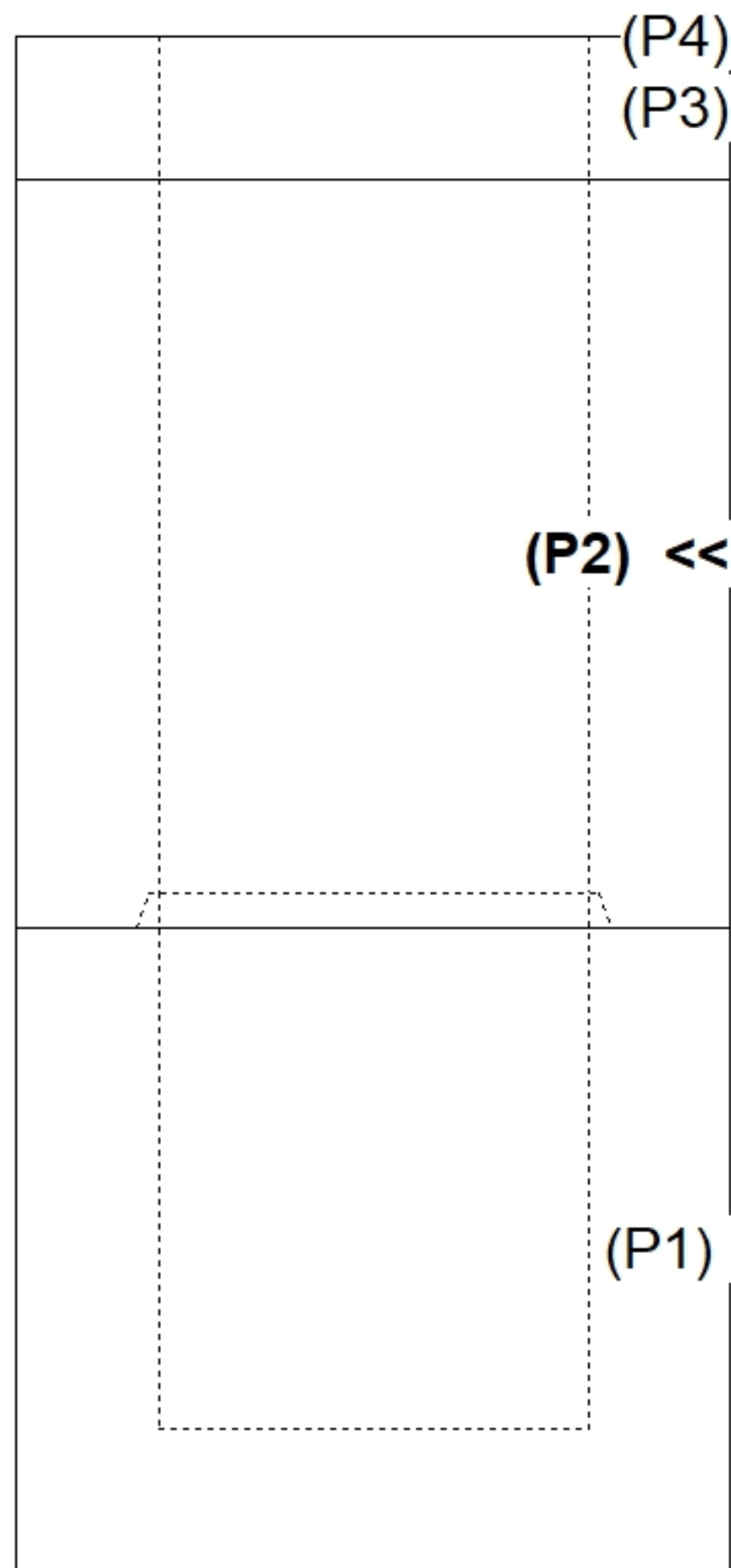
BOX RISER 8inW F/G

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 - 42" P1) 24" x 30" - BOX BASE 8inW, 8inF, Variable Ht T/n - 28" 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" 1) Hole - 26 1) DOGHOUSE INVRTD - 24"x24"	0 lb 931 lb 3676 lb 3510 lb 206 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 8324 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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Rim: 773.5' Rim to Invert: 6.5' Slack: 0" Sump: 0" Step Position:

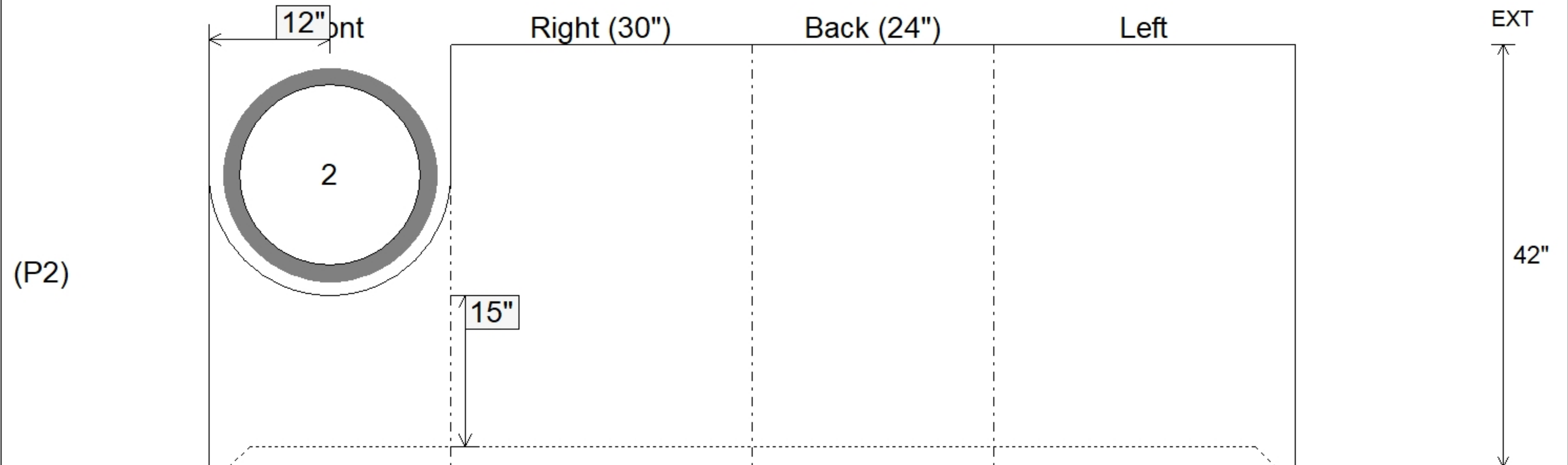
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1										
Invert 2	771'	0°	20"	18" HDPE	21.2"	DOGHOUSE INVRTD 24"x24"	24" x 24"	24"	15"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 2
 Degree: 0°
 Horz: 12"
 Hole: 24" x 24"
 Up(): 15"

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 8" Floor Height: 0"	Height (Int): 42" Height (Ext): 42"	Weight (Net): 3676 lb Volume (Net): 0.94cu.yd
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Job Name: 23-2404 Hampton Hills (Phase 1)	Plant: 100	Tech: J. Horsley	
Job Location: Richmond, KY Contractor: Seven Earthmovers LLC	5/19/2026 12:59:35 PM	PC: C. Golf	

Structure ID: BASIN C2 - OCS

P1 BX4848-08BAVF

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

P2) 48" x 48" - CASTING HEIGHT - 1"	0 lb
P1) 48" x 48" - BOX BASE 8inW, 8inF, Variable Ht F/n - 35"	7519 lb
1) 48" x 48" - Conseal CS-102 1.00"	0 lb
1) Hole - 30	0 lb
1) Hole - 6	0 lb
Structure Total:	7519 lb

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

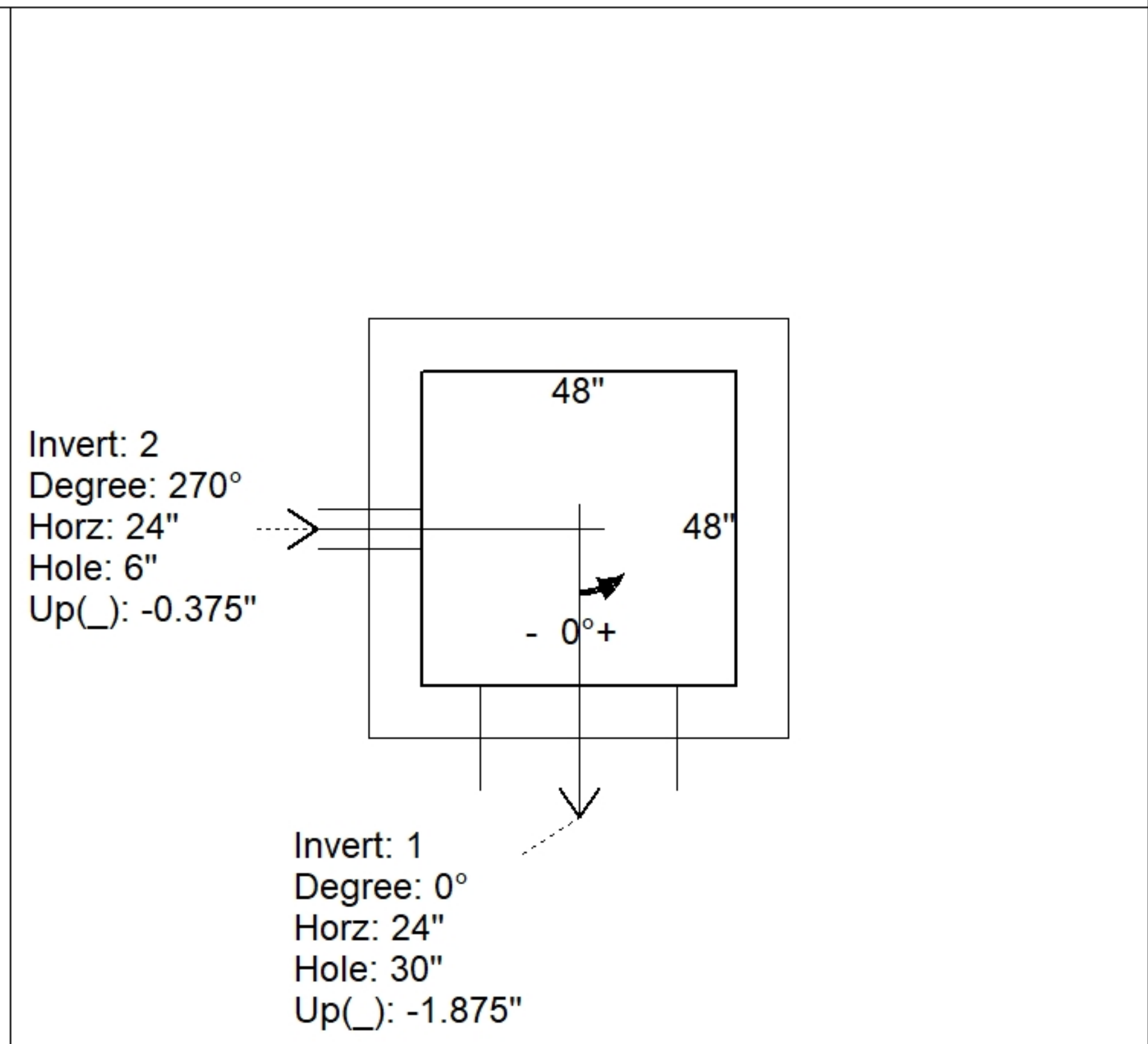
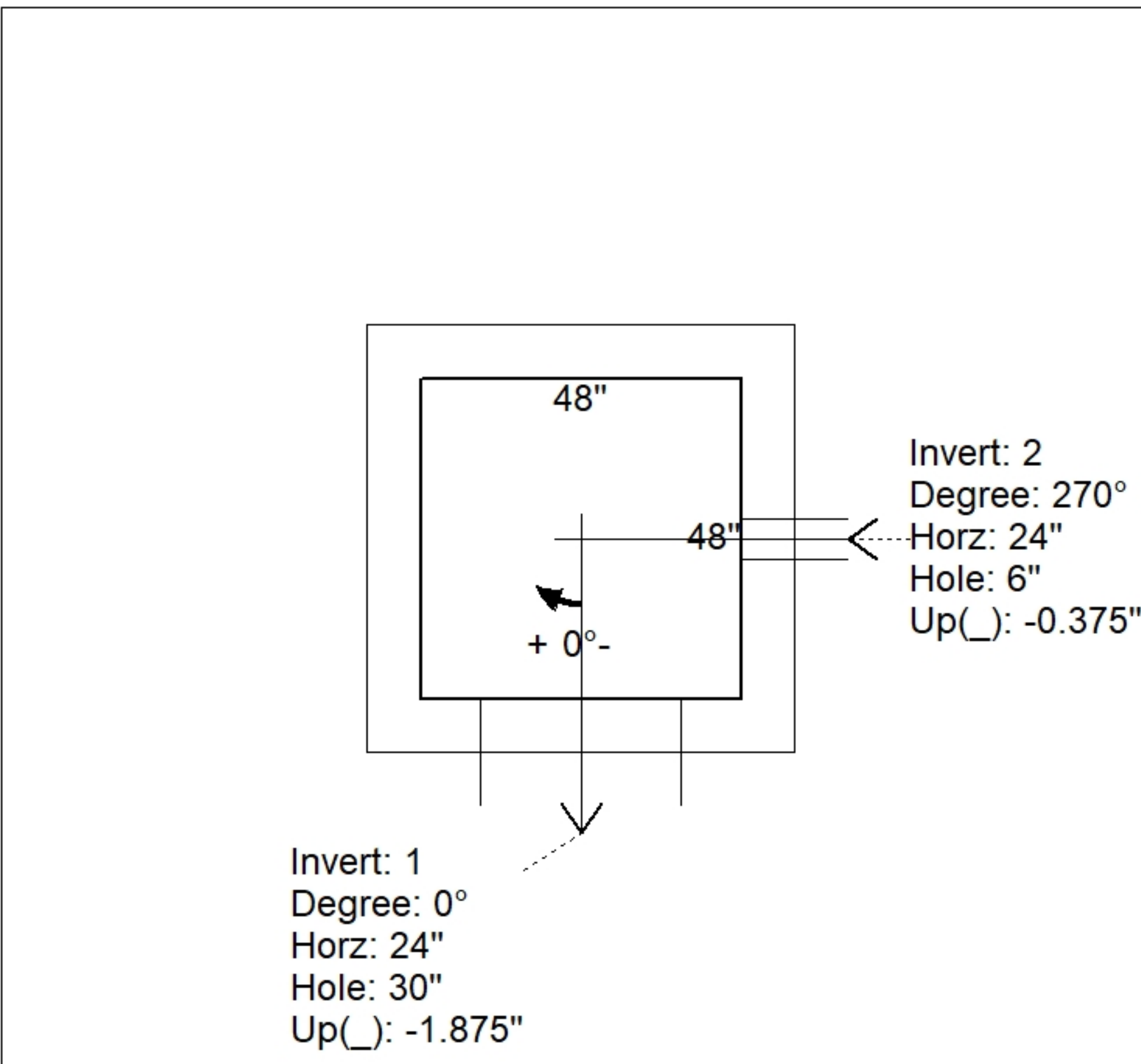
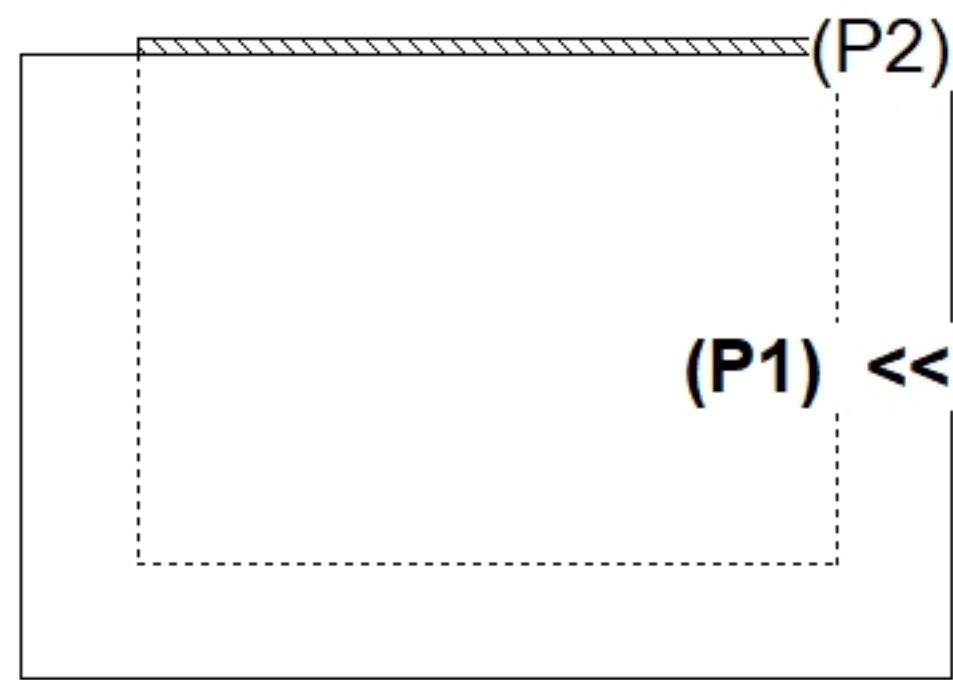
REINFORCING PER ASTM A615 (GRADE 60).
 - BASE WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - BASE FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 871' Rim to Invert: 3' Slack: 0" Sump: 0" Step Position:

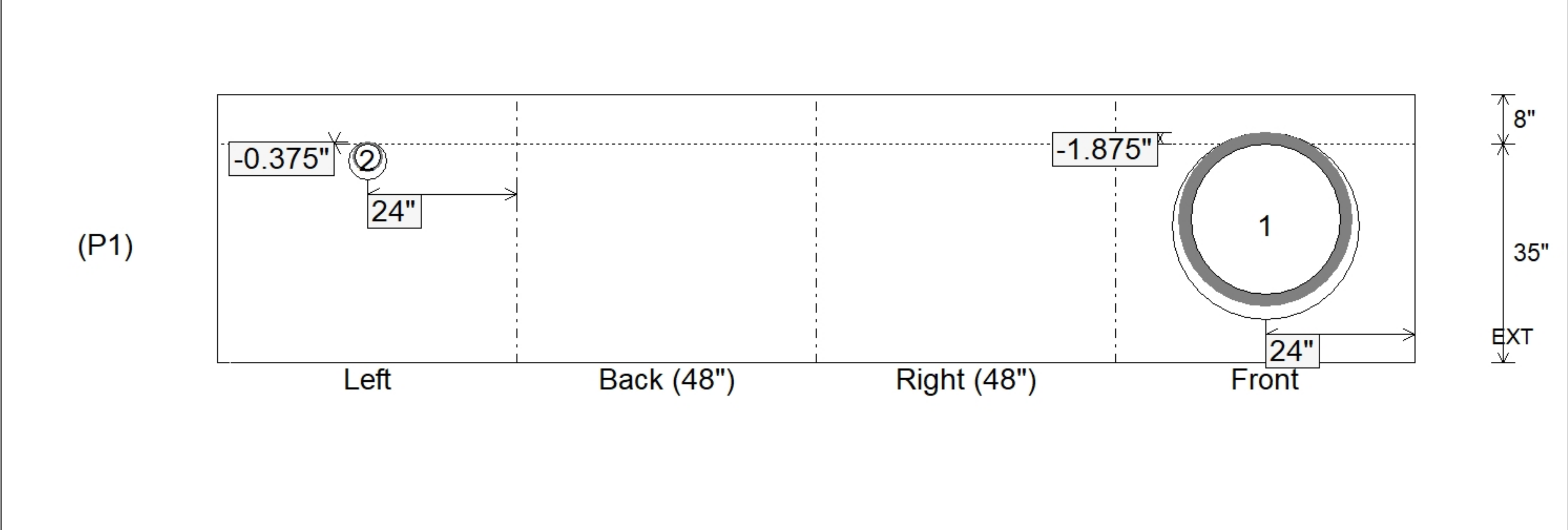
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	868'	0°	32"	24" HDPE	27.8"	Hole 30	30"	30"	-1.875"	0"
Invert 2	868'	270°	32"	4" HDPE (perf pipe)	4.8"	Hole 6	6"	6"	-0.375"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7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

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. 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
----------------------------------	-------------------------------	--	--	--

Structure ID: CBI-C4

P1 BX2436-08BVF

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

P3) 24" x 120" - CB INLET KY A 10' TOP RIGHT F/G - 10" P2) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT T/G - 18" P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 23" 1) CASTING - HOE KY-206 F/C (KY CBI A) 1) 24" x 36" - Conseal CS-102 1.00" 2) Hole - 22	3398 lb 5270 lb 3233 lb 206 lb 0 lb 0 lb <hr style="width: 50px; margin-left: auto; margin-right: 0;"/> Structure Total: 12107 lb
--	---

Structure Notes:
 1. PER KYTC CBI A / ASTM C913 SPEC'S.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING (HOE KY-206) TO BE CAST INTO TOP PHASE.

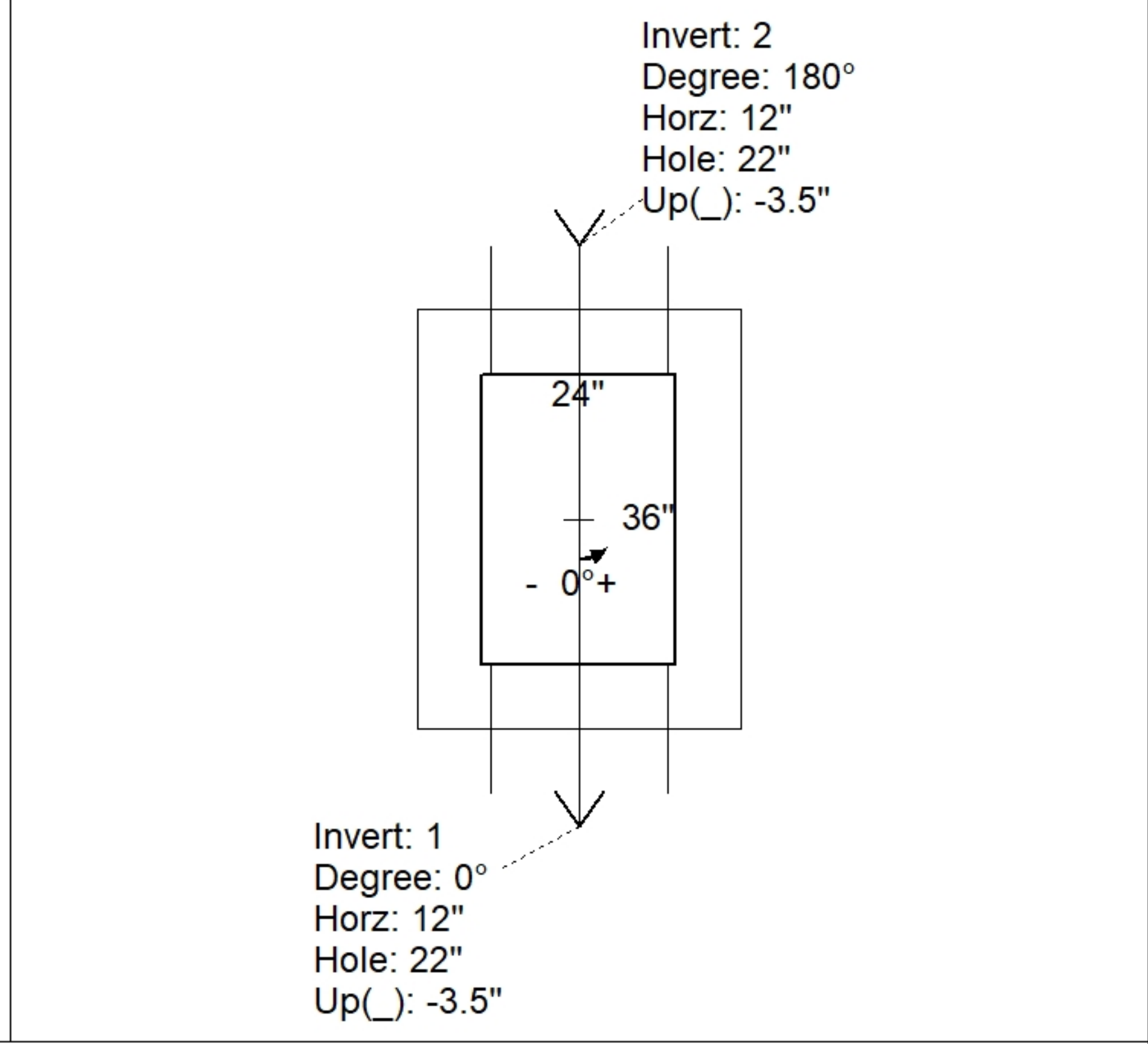
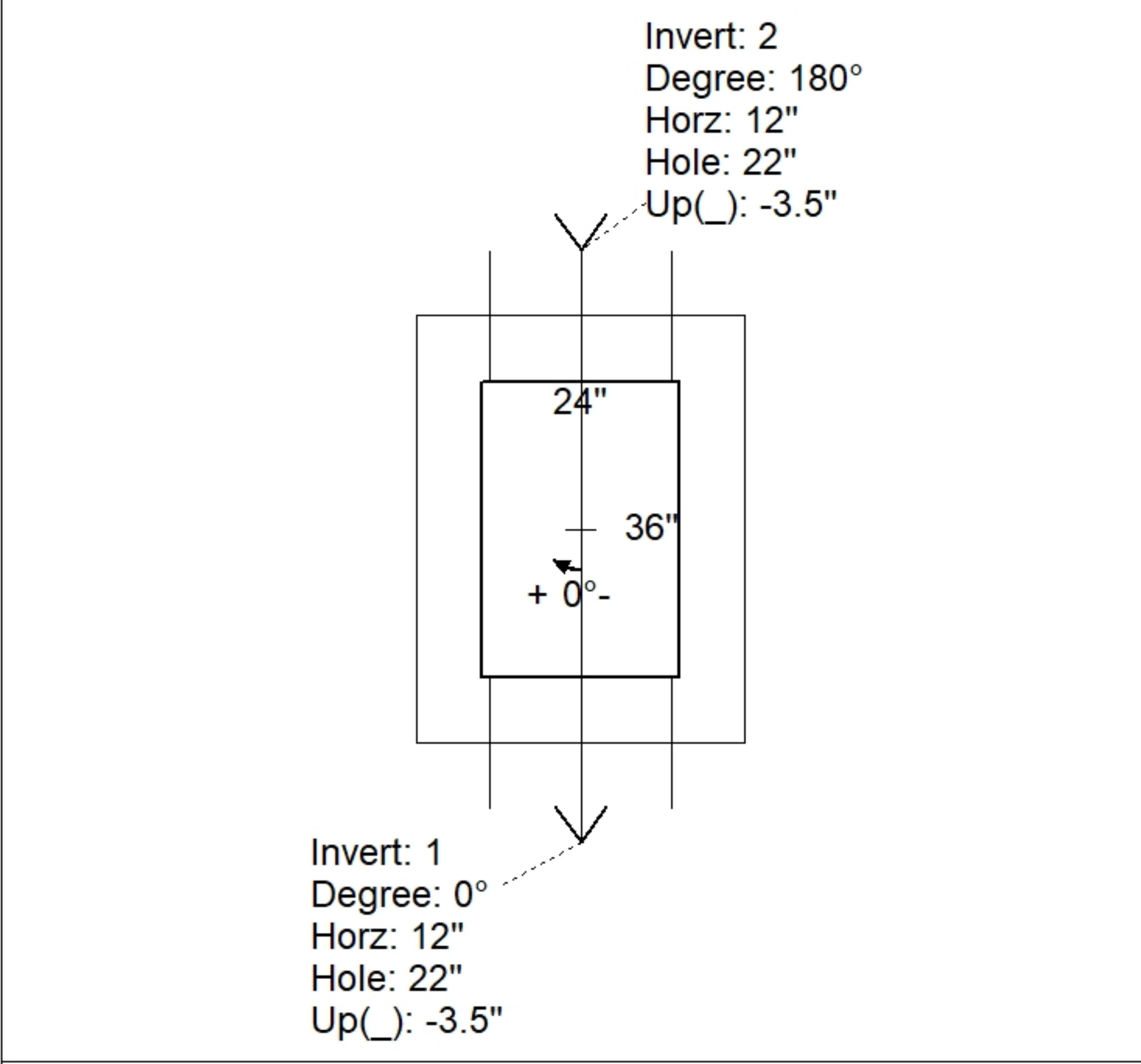
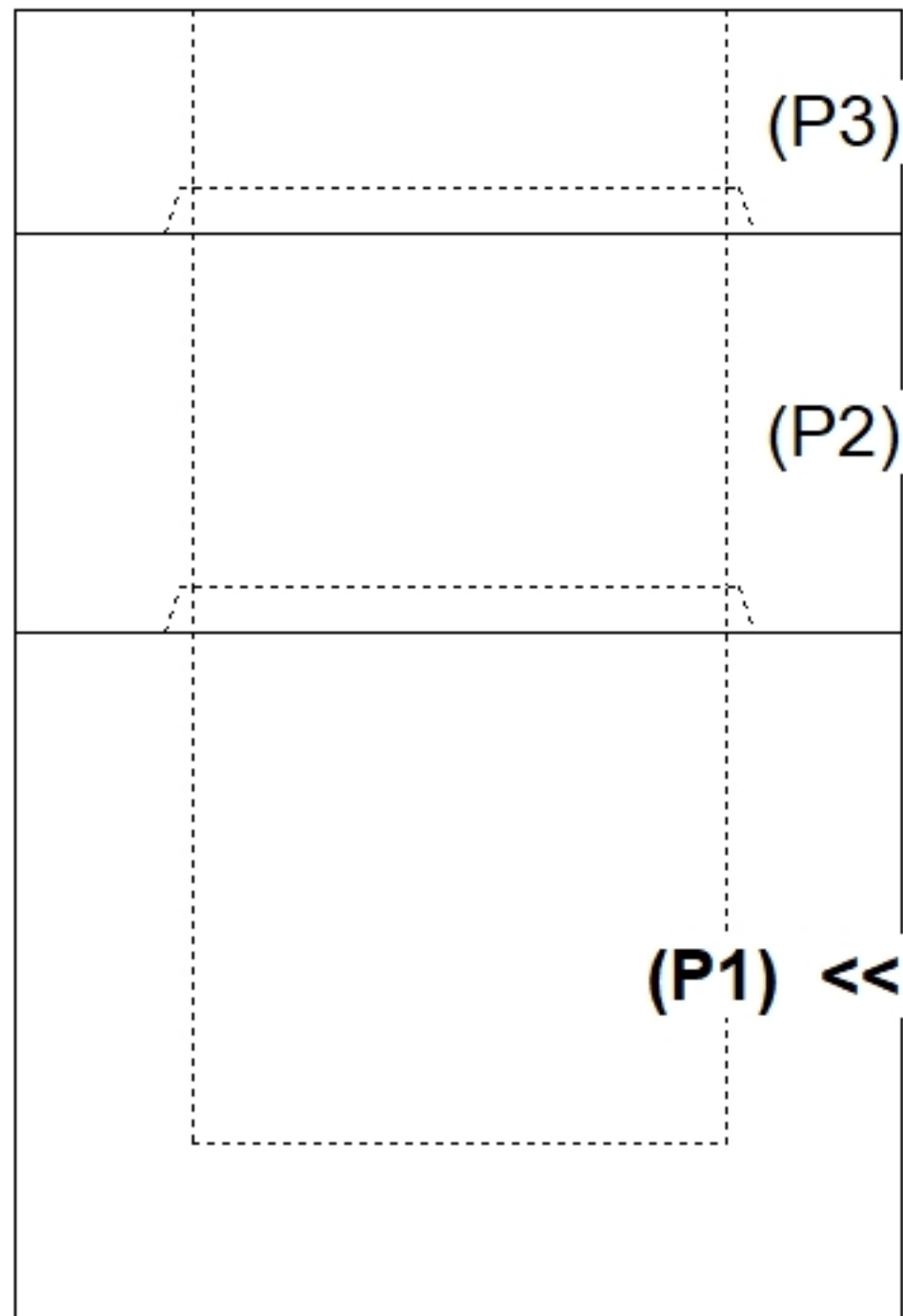
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
 - BASE WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - BASE FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 890.23' Rim to Invert: 4.25' Slack: 0" Sump: 0" Step Position:

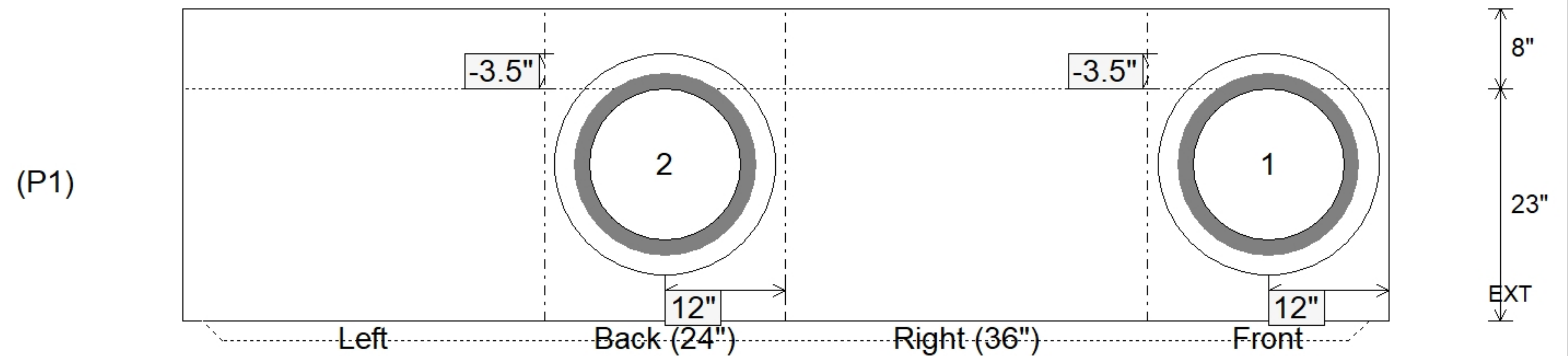
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	885.98'	0°	20"	15" ADS N-12	18"	Hole 22	22"	22"	-3.5"	0"
Invert 2	885.98'	180°	20"	15" ADS N-12	18"	Hole 22	22"	22"	-3.5"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
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): 23" Height (Ext): 31"	Weight (Net): 3233 lb Volume (Net): 0.83cu.yd
----------------------------------	---------------------------------	--	--	--

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

Plant: 100
 3/25/2026 1:41:44 PM

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



Structure ID: STM-G2

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 - 35"
- 1) CASTING - JBS 3101 Single Set (F/G/H)
- 1) 28" x 28" - Conseal CS-102 1.00"
- 2) Hole - 22

0 lb
 2819 lb
 619 lb
 0 lb
 0 lb

 0 lb
 Structure Total: 3438 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)).

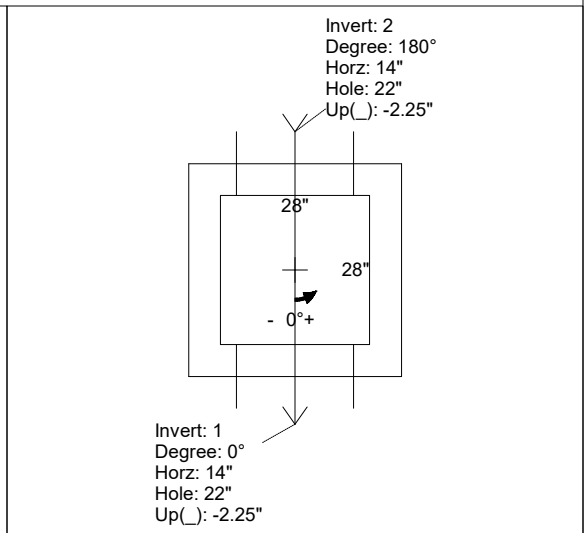
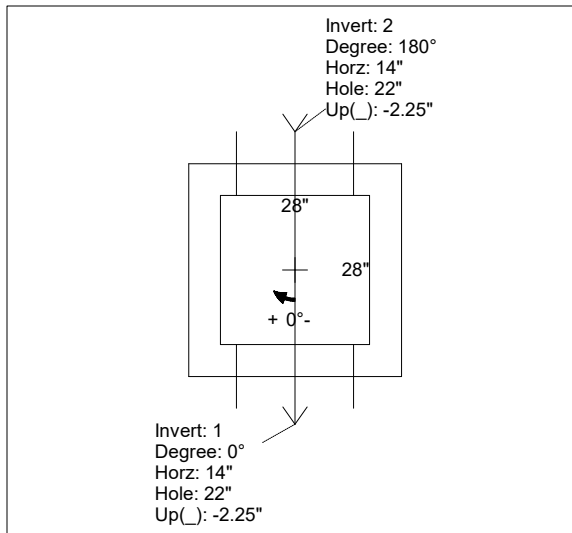
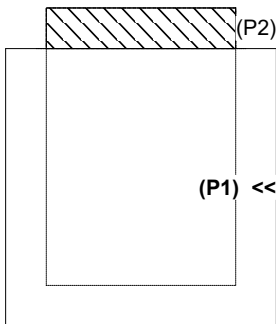
REINFORCING PER ASTM A615 (GRADE 60).
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 469.9' Rim to Invert: 3.47' Slack: 0.64" Sump: 0" Step Position:

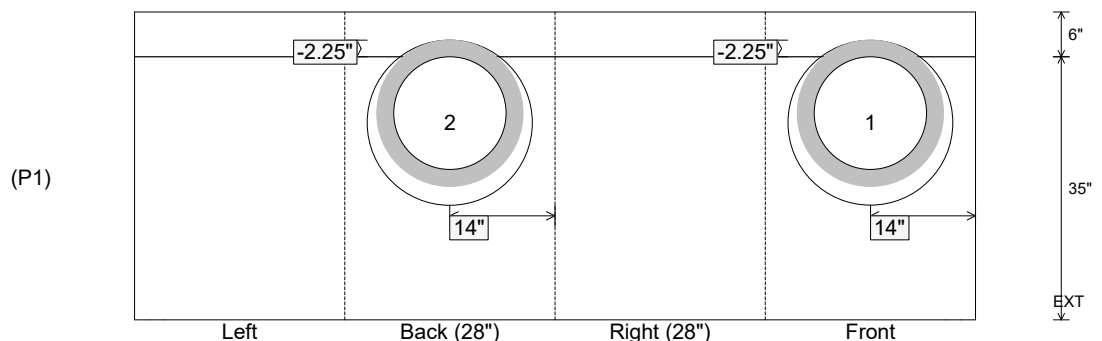
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	466.43'	0°	20"	15" RCP B WALL	19.5"	Hole 22	22"	22"	-2.25"	0"
Invert 2	466.43'	180°	20"	15" RCP B WALL	19.5"	Hole 22	22"	22"	-2.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: n/a

Wall Thickness: 6"
 Floor Height: 6"

Height (Int): 35"
 Height (Ext): 41"

Weight (Net): 2819 lb
 Volume (Net): 0.72cu.yd

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

Plant: 100
 3/26/2026 11:42:47 AM

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



Structure ID: STM-D1

P1 BX3030-06VH

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

- P2) 30" x 30" - CASTING HEIGHT - 6"
- P1) 30" x 30" - BOX BASE 6inW, 6inF, Variable Ht F/n - 34"
- 1) CASTING - JBS 3101 Single Set (F/G/H)
- 1) 30" x 30" - Conseal CS-102 1.00"
- 1) DOGHOUSE INVRTD - 38"x38"
- 1) Hole - 32
- 1) Hole - 18

0 lb
 2267 lb
 619 lb
 0 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 2886 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)).

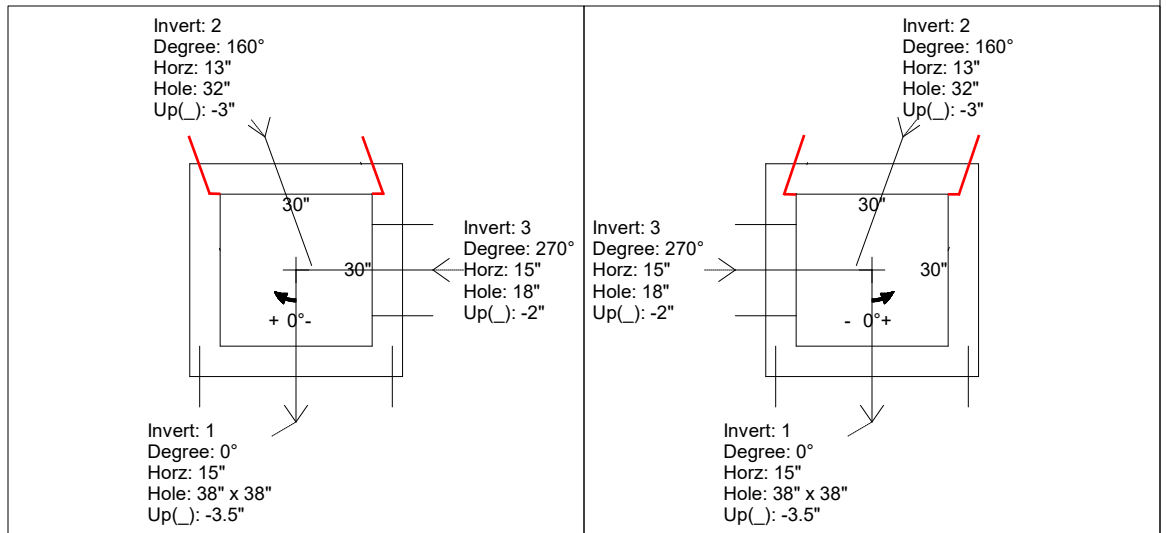
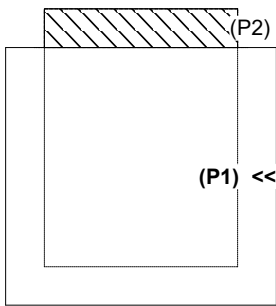
REINFORCING PER ASTM A615 (GRADE 60).
 - WALLS (As .12) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 468.88' Rim to Invert: 3.32' Slack: -0.16" Sump: 0" Step Position:

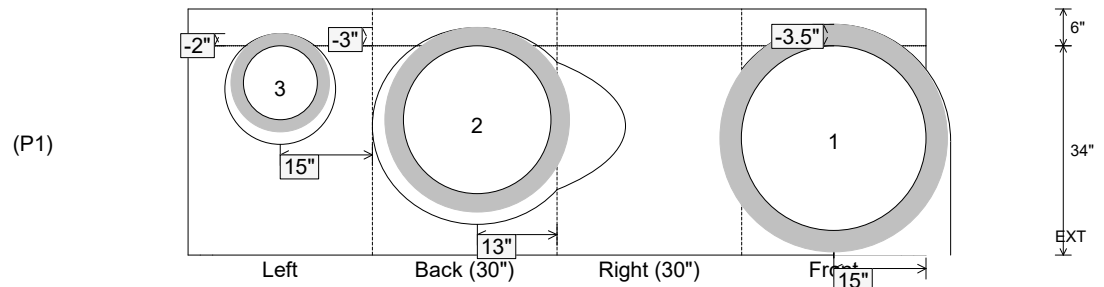
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	465.56'	0°	21"	30" RCP B WALL	37"	DOGHOUSE INVRTD 38"x38"	38" x 38"	34"	-3.5"	0"
Invert 2	465.56'	160°	16.75"	24" RCP B WALL	30"	Hole 32	32"	29.996", 11.148"	-3"	3.222"
Invert 3	465.56'	270°	21"	12" RCP B WALL	16"	Hole 18	18"	18"	-2"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: n/a

Wall Thickness: 6"
 Floor Height: 6"

Height (Int): 34"
 Height (Ext): 40"

Weight (Net): 2267 lb
 Volume (Net): 0.58cu.yd

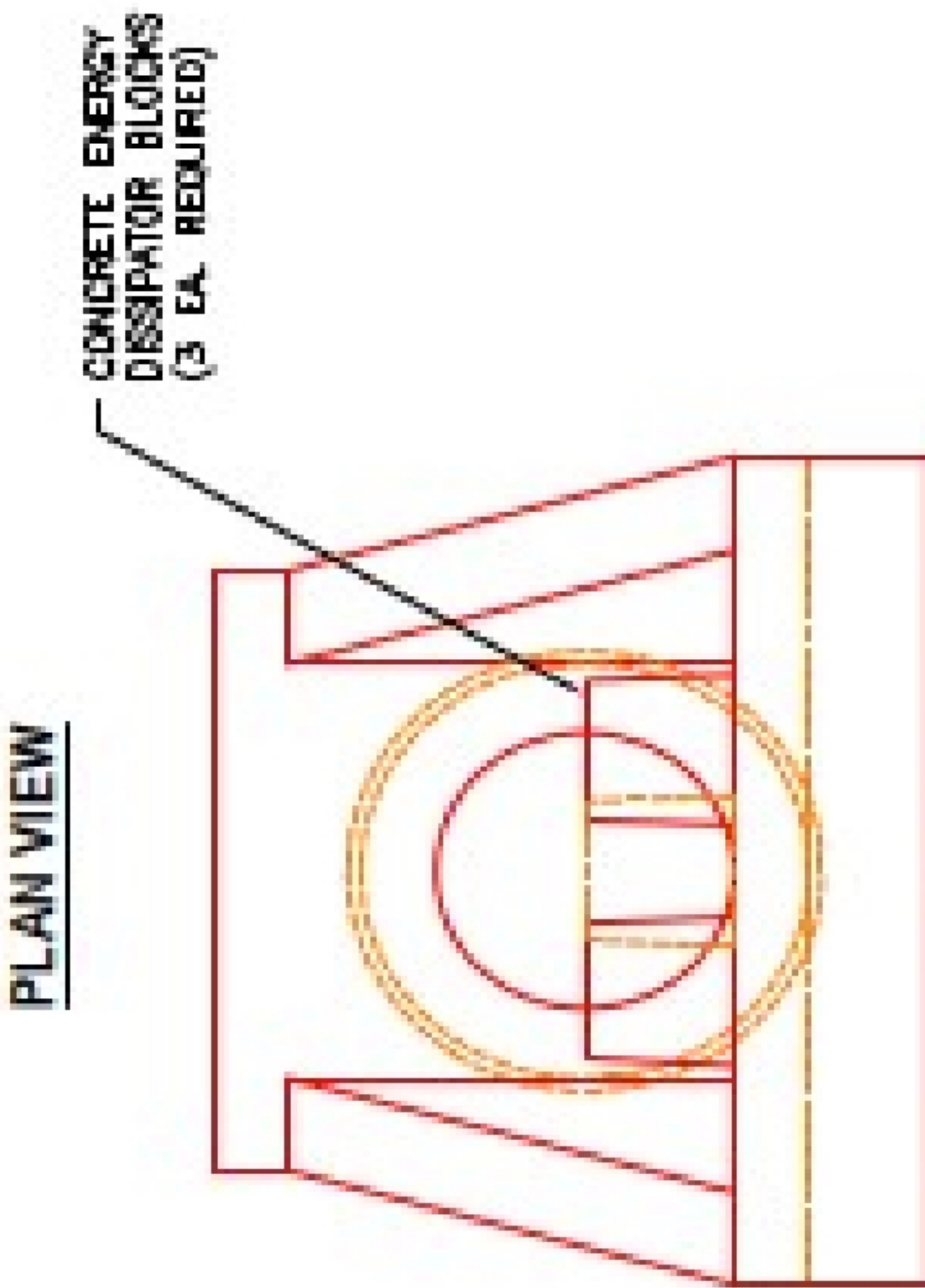
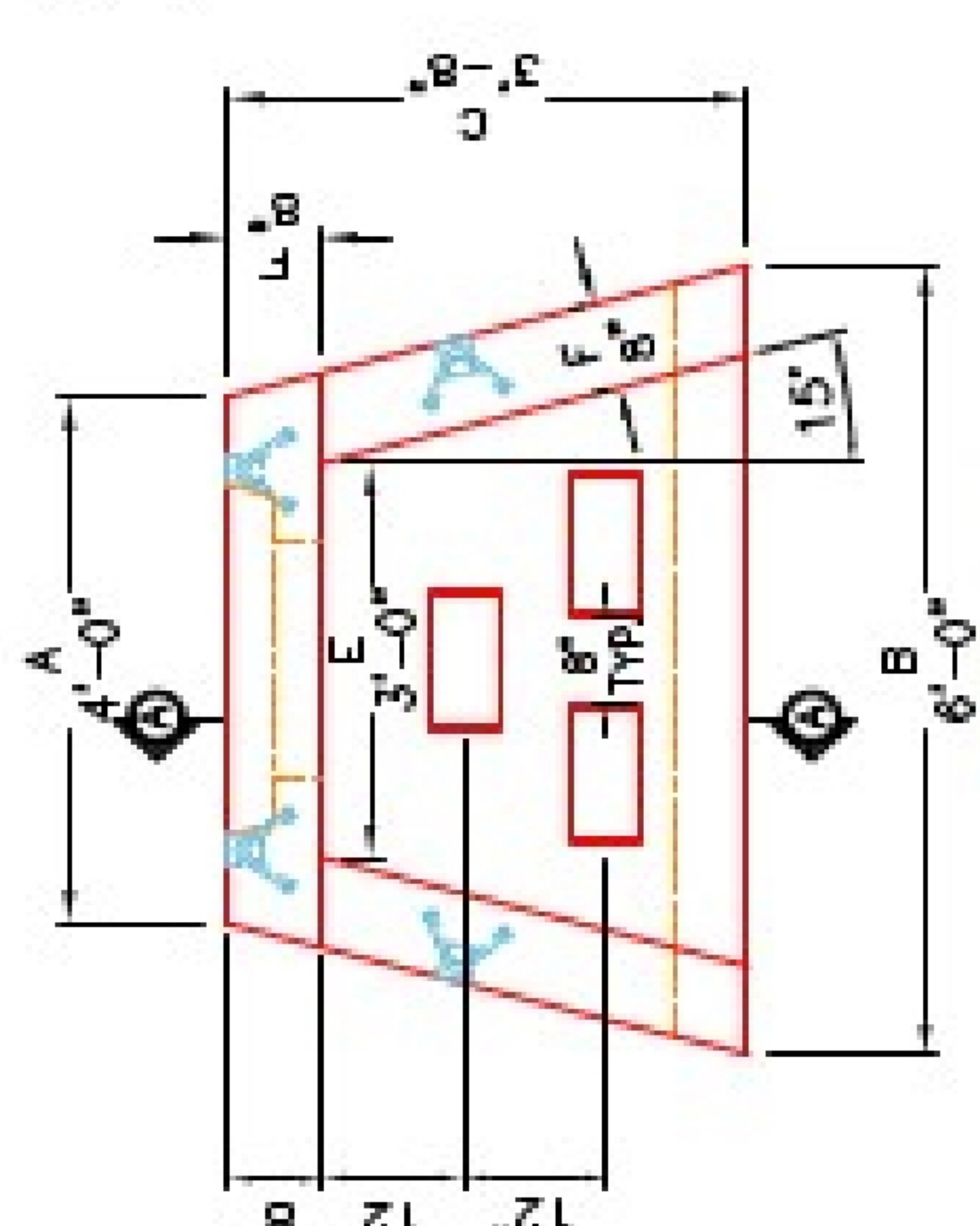
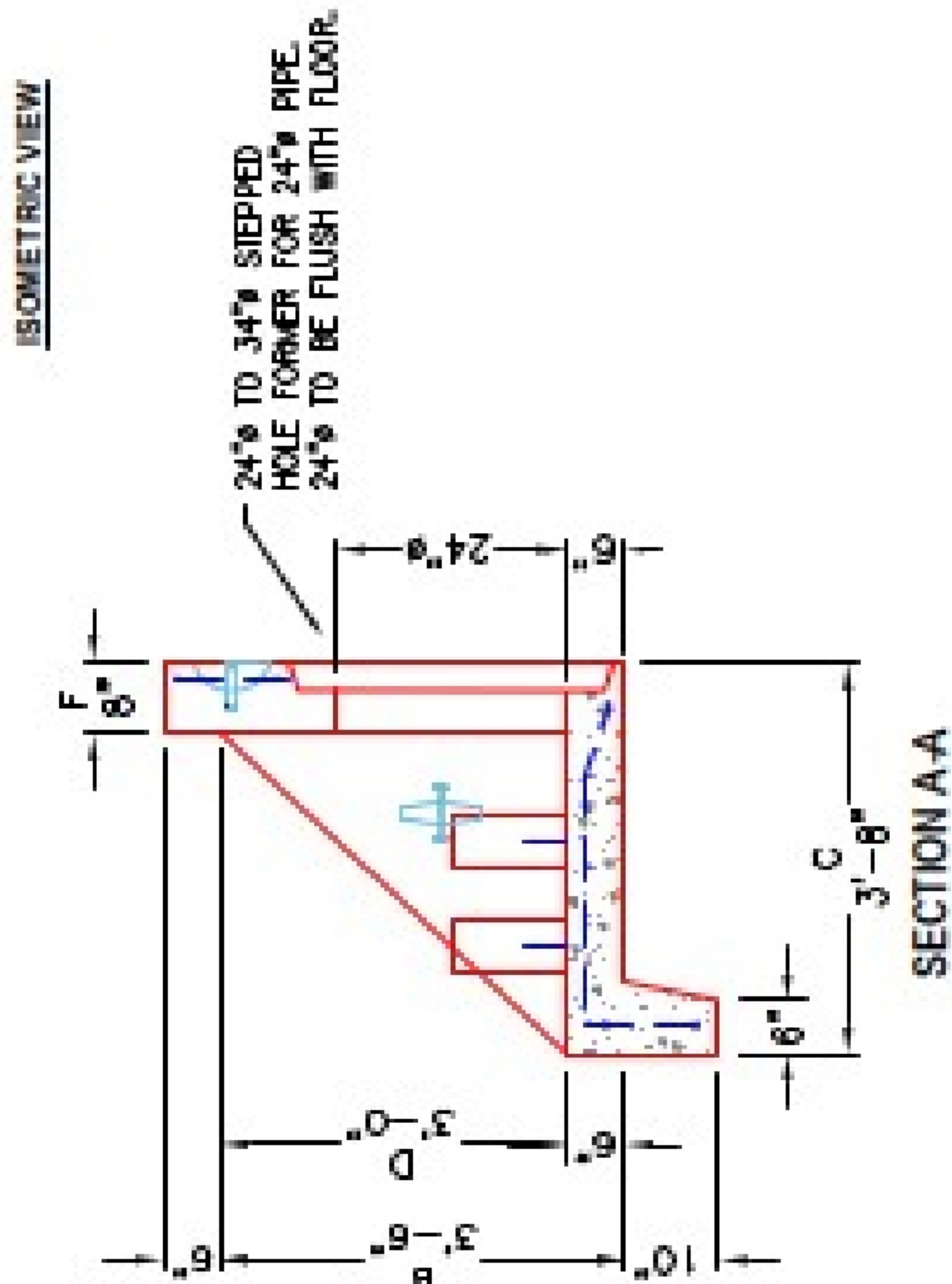
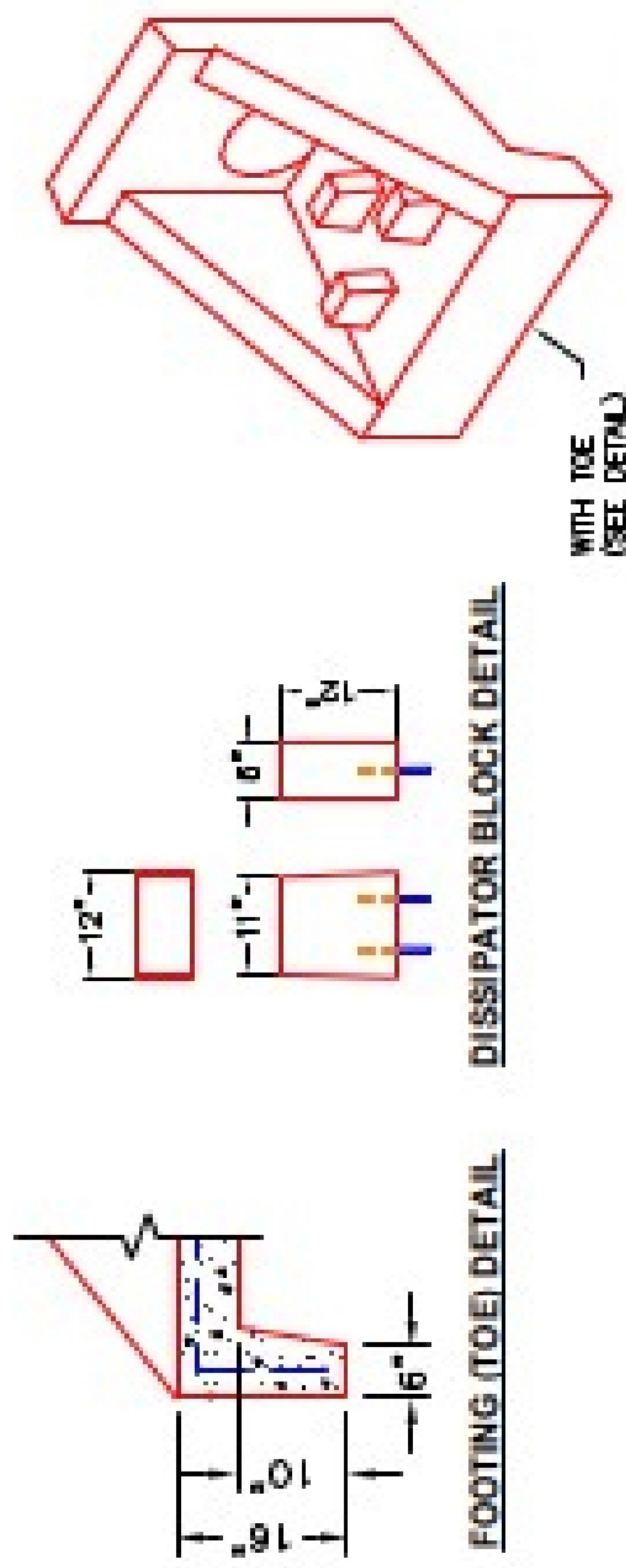


Structure ID: DS-3

P1 HWA18D

18" - HW AW w/TOE/DISSIPATORS F/F

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



- 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.
 4. DISSIPATOR BLOCKS INSTALLED POST POUR OF HEADWALL WITH 2 EA. #5 REBAR DOWELS.

PRODUCTION WORK ORDER		DESCRIPTION: 24in BW HEADWALL w/DISSIPATORS	
PRODUCT I.D.: HMBW24D	CUSTOMER: T.B.D.	STRUCTURE ID: T.B.D.	SALES ORDER NO: T.B.D.
PRODUCT VIEW: RIGHT SIDE UP	PLANT: BEAVER DAM, KY.	CHECK: A. WELLS	DRAWING: J. HORSLEY
QUALITY CONTROL CHECKLIST	WEIGHT: 3,100 LBS.	DATE: 01/24/25	SCALE: NTS
<input type="checkbox"/> ALL DIMENSIONS CORRECT.	TOP SECTION JOINT: N/A	PG. 1 of 1	
<input type="checkbox"/> LIFTERS INSTALLED.	BASE SECTION JOINT: TOE		
<input type="checkbox"/> STEPPED HF CORRECT SIZE.	QC CHECK INITIALS:		
<input type="checkbox"/> REINFORCING CORRECT.			
<input type="checkbox"/> CLEARANCE ON REINFORCING CORRECT.			
<input type="checkbox"/> EDGES CHAMFERED.			
<input type="checkbox"/> ALL PATCHWORK ACCEPTABLE.			



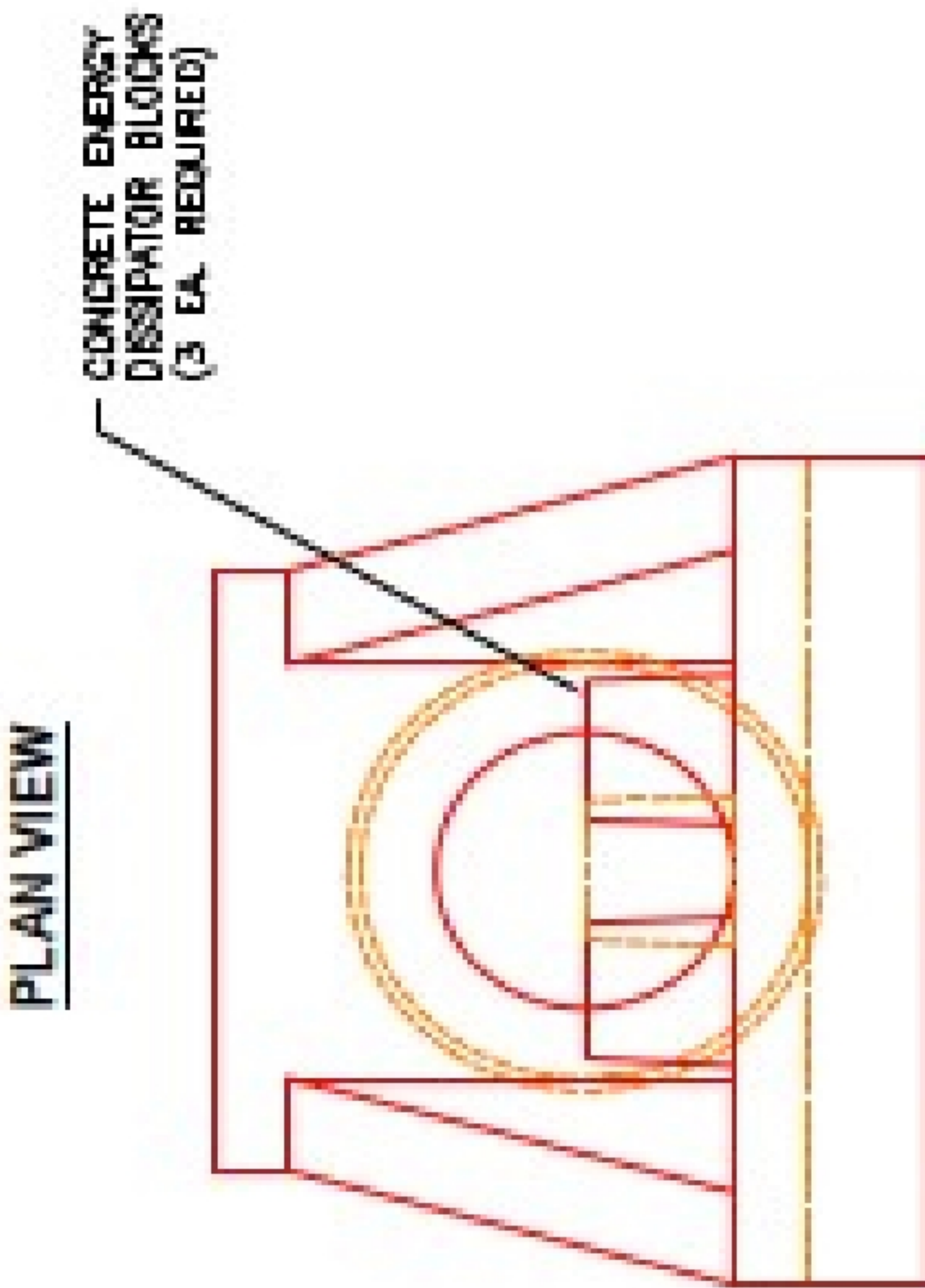
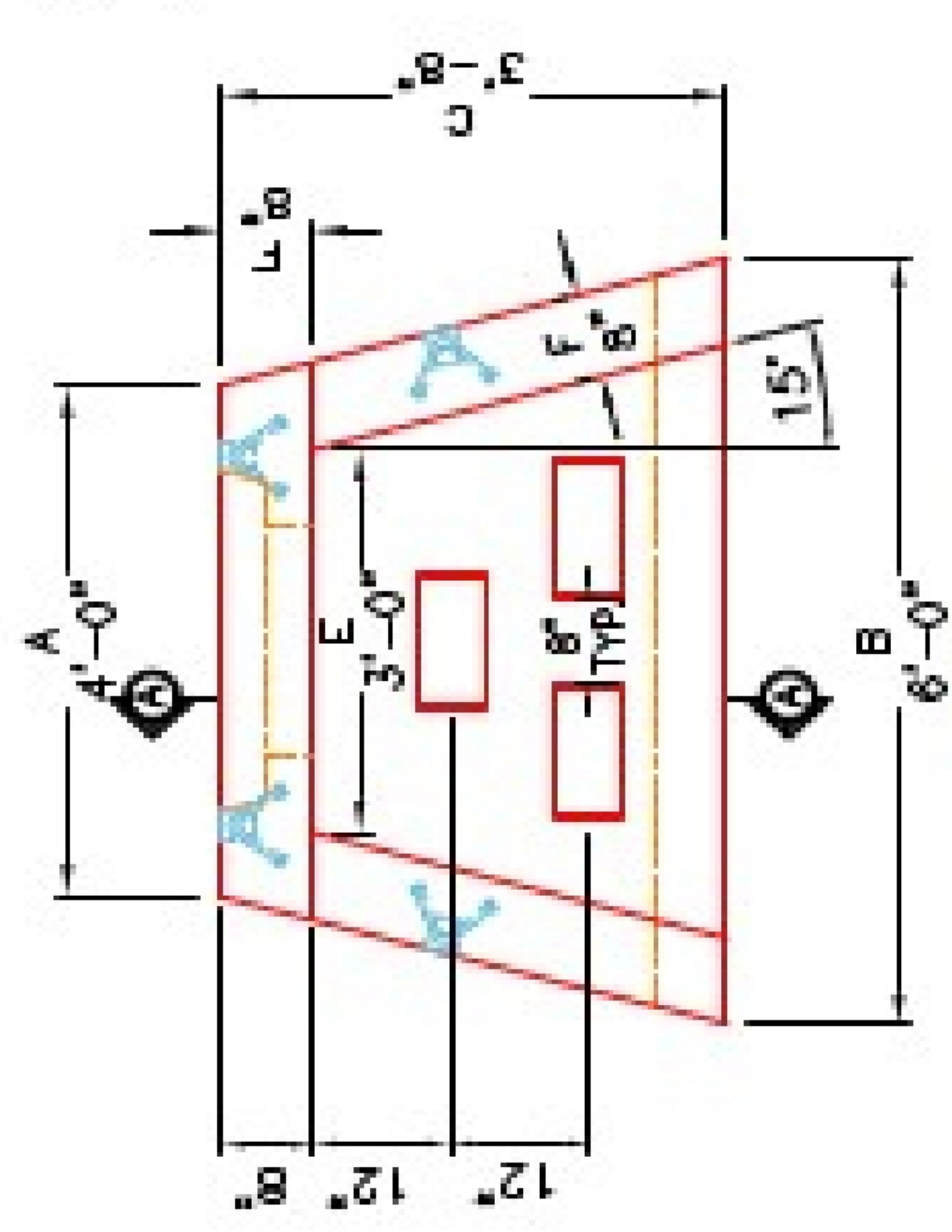
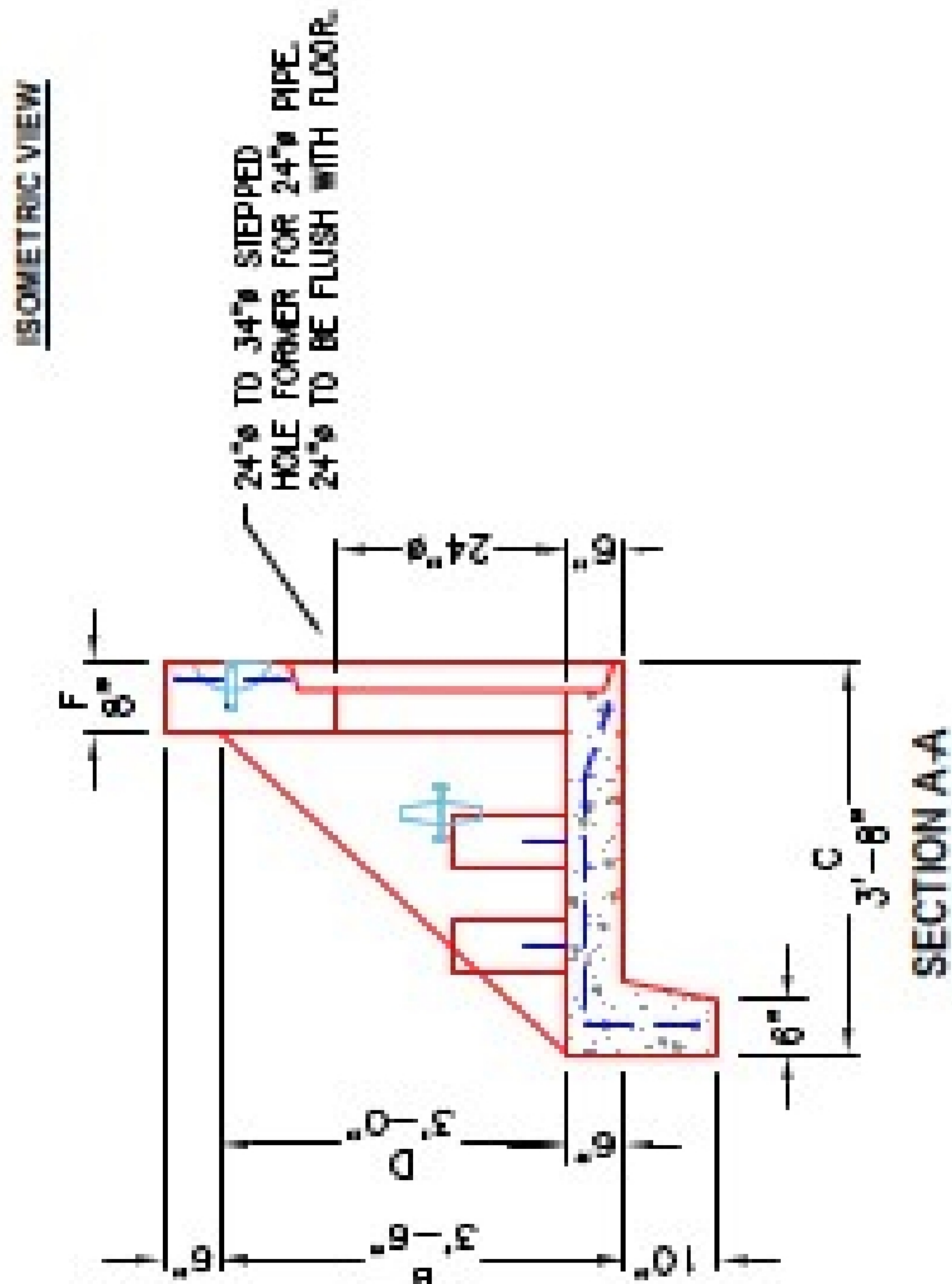
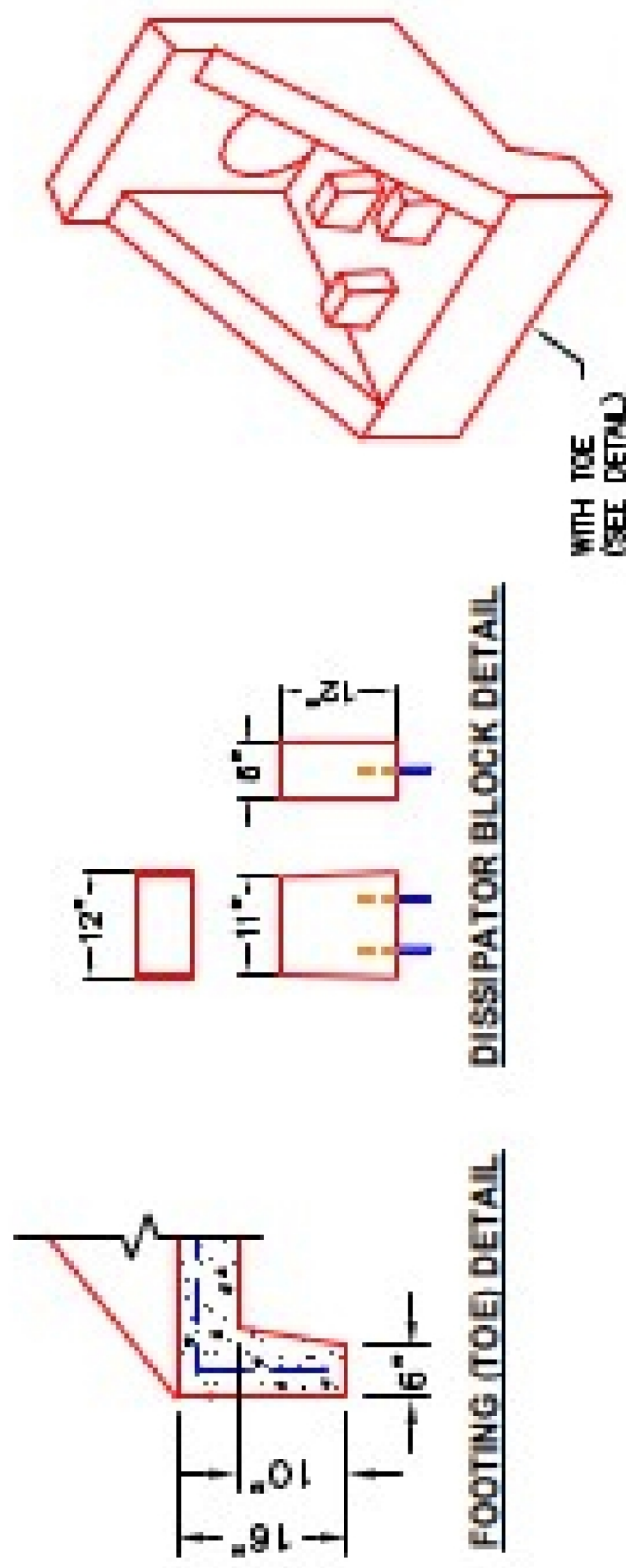


Structure ID: DS-1

P1 HWA12D

12" - HW AW w/TOE/DISSIPATORS F/F

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



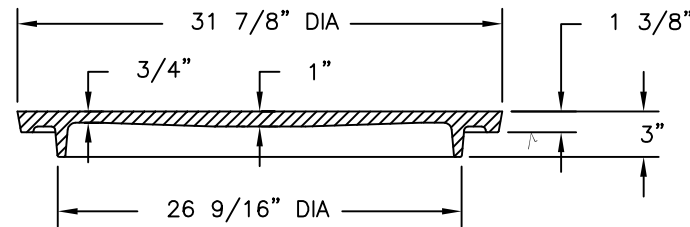
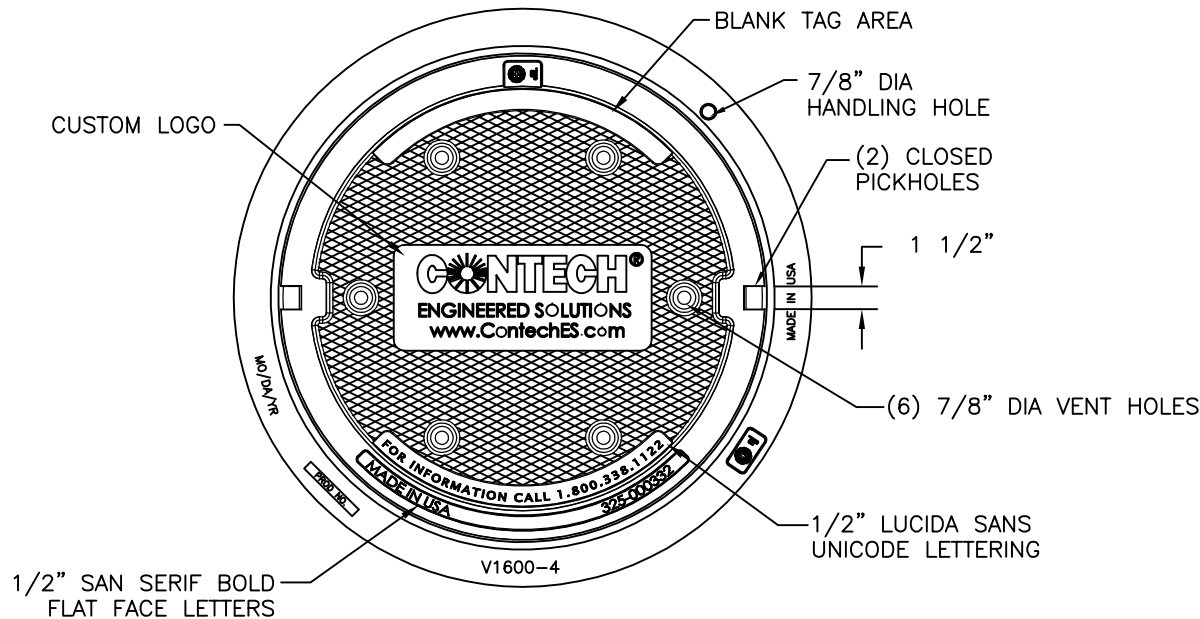
- NOTES:**
1. CONCRETE: 4500 PSI AT 28 DAYS MIN. STRENGTH.
 2. REINFORCING: #4 BAR @ 12" C/C E.W.-GRADE 60, (WITH 2" CONCRETE COVER MINIMUM)
 3. REINFORCING BARS TO BE TACK WELDED OR TIED.
 4. DISSIPATOR BLOCKS INSTALLED POST POUR OF HEADWALL WITH 2 EA. #5 REBAR DOWELS.

PRODUCTION WORK ORDER	
PRODUCT I.D.: HMBW24D	DESCRIPTION: 24in BW HEADWALL w/DISSIPATORS
PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: T.B.D.
PLANT: BEAVER DAM, KY.	PROJECT: T.B.D.
WEIGHT: 3,100 LBS.	STRUCTURE ID.: T.B.D.
TOP SECTION JOINT: N/A	SALES ORDER NO: T.B.D.
BASE SECTION JOINT: TOE	CHECK: A. WELLS
QC CHECK INITIALS:	DRAWING: J. HORSLEY
	DATE: 01/24/25
	SCALE: NTS
	PG. 1 of 1

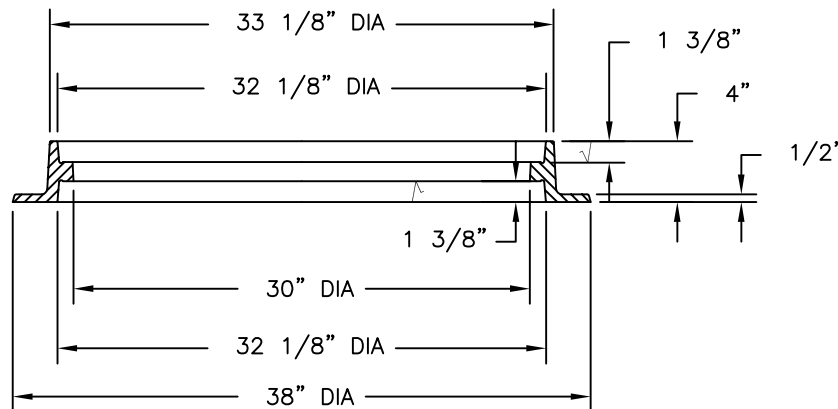


26-2380 902433 Security Bank

1810B4 V1600-4 Assembly



COVER SECTION



FRAME SECTION

Product Number
41600483

Design Features

- Materials
 - Cover
Gray Iron (CL35B)
 - Frame
Gray Iron (CL35B)

- Design Load
Heavy Duty
- Open Area
n/a
- Coating
Undipped
- √ Designates Machined Surface

Certification

- ASTM A48
- Country of Origin: USA

Major Components

00180783
41600410

Drawing Revision

05/09/2007 Designer: SMH
6/26/2017 Revised By: DAE

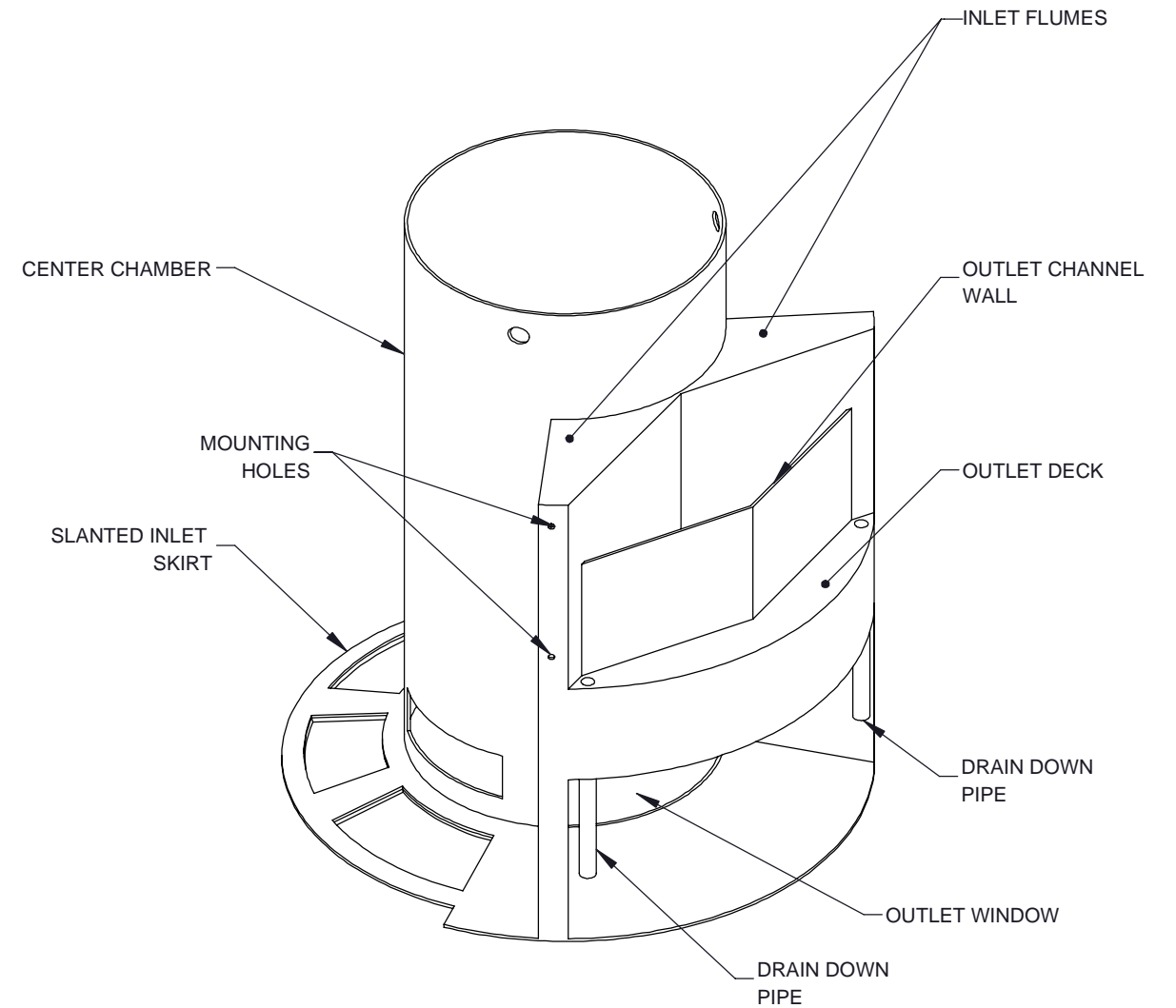
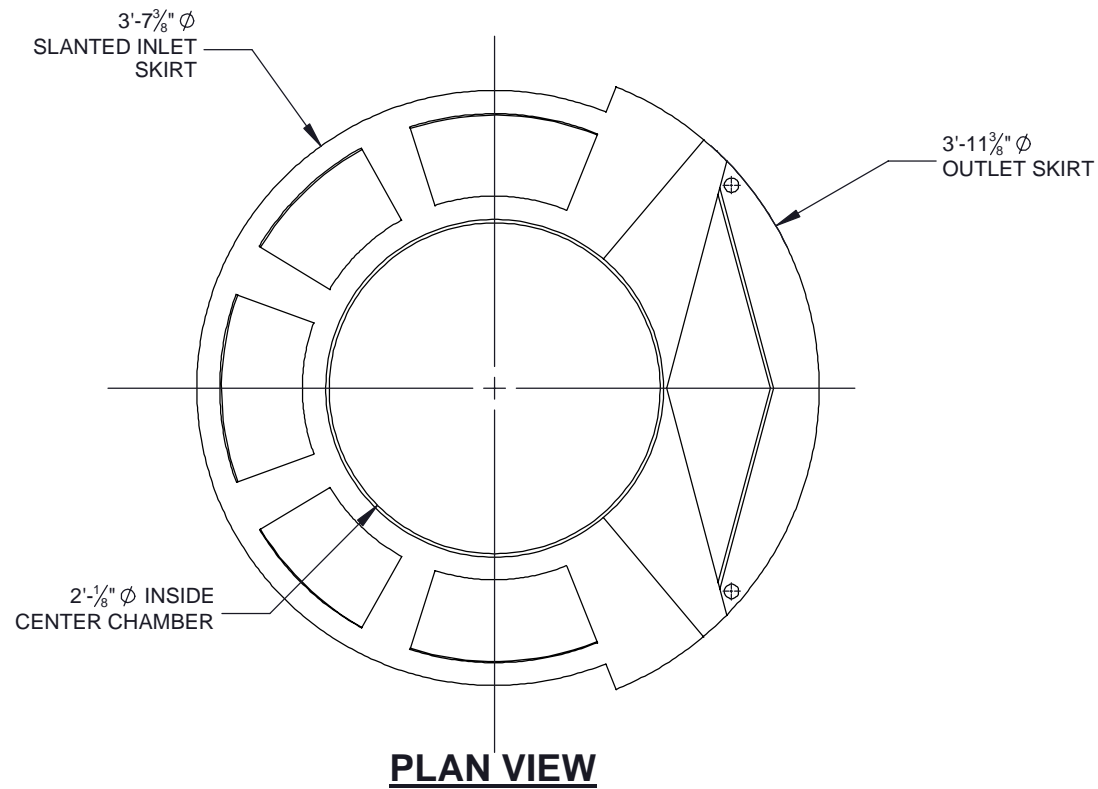
Disclaimer

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

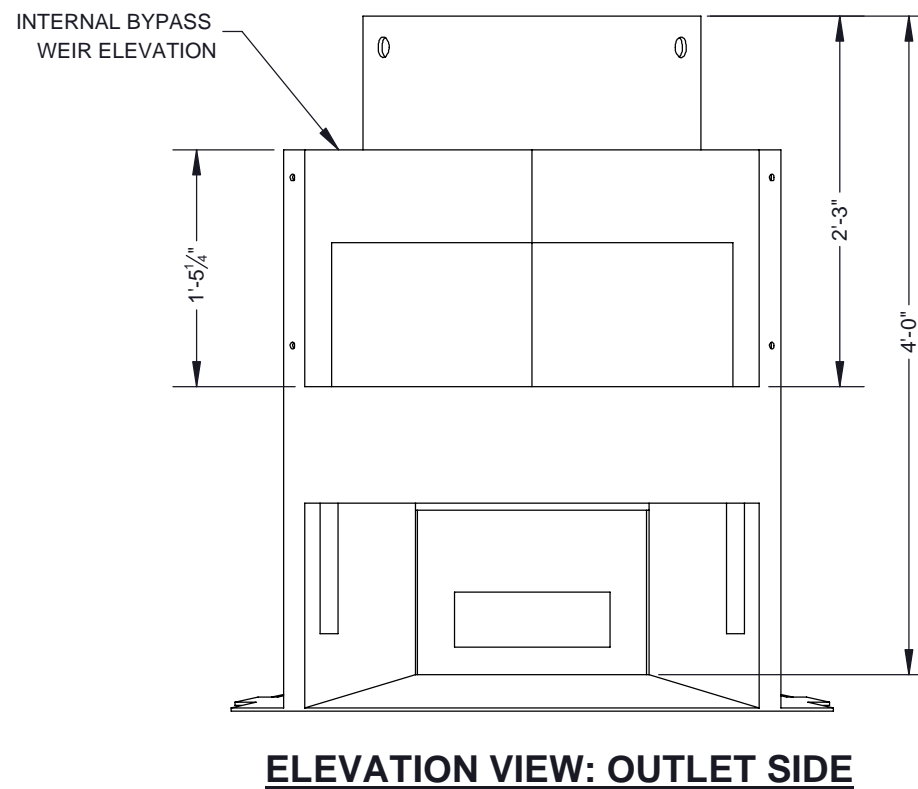
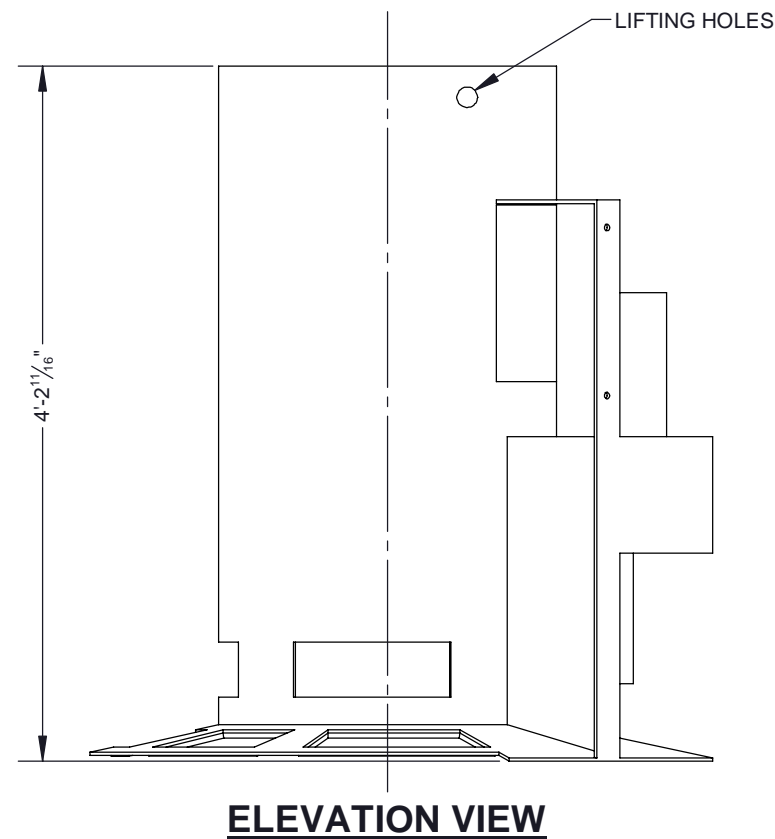
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Contact

800 626 4653
ejco.com



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



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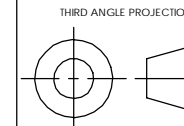
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800-338-1122 513-645-7000 513-645-7993 FAX

REFERENCE DETAIL
INTERNALS CS-4
CASCADE SEPARATOR



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES

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

PART NUMBER: 325-003949		
APPROVED BY: M. BROOKS	DRAWN BY: M. BROOKS	
APPROVED BY DATE: 2021.10.21	DRAWN BY DATE: 2021.09.14	REV: B
SCALE: N/A	SHEET 1 OF 1	

Job Name: 25-2898 - Hunter's Ridge Ph.1	Plant: 100	Tech: Jared - A	
Job Location: Owensboro, KY	6/1/2026 7:20:01 AM	PC: A. Chambers	
Contractor: Ernie Davis & Sons Mechanical, Inc.			

Structure ID: AA-2

P1 BX2472-08BAVF

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

P3) 24" x 72" - CASTING HEIGHT - 6"	0 lb
P2) 24" x 72" - BOX RISER 8inW, Variable Ht F/G - 35"	5263 lb
P1) 24" x 72" - BOX BASE 8inW, 8inF, Variable Ht T/n - 60"	8768 lb
2) 24" x 72" - Conseal CS-102 1.00"	0 lb
2) Hole - 48	0 lb
Structure Total:	14031 lb

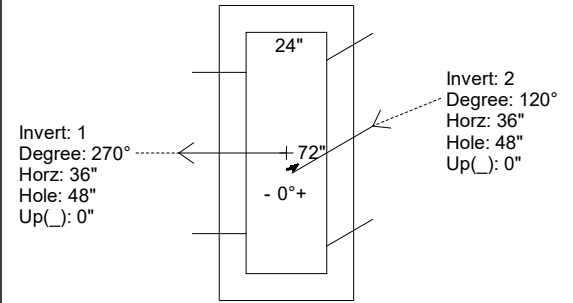
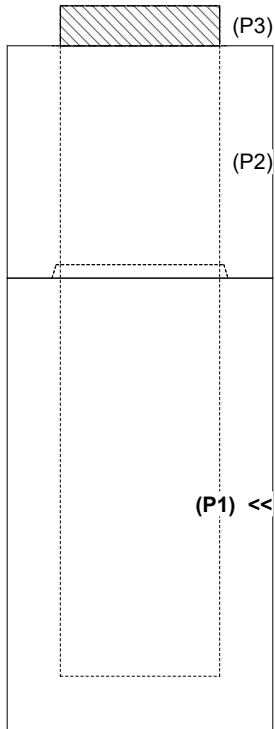
- Structures Notes:**
- PER ASTM C-913 SPECIFICATIONS
 - CONCRETE: 4,000 PSI AT 28 DAYS
 - REINFORCEMENT: #5 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 - NO STORM INVERT
 - NO STEPS
 - HOE-525 DOUBLE FRAMES, GRATES, & CURB HOODS SUPPLIED BY OTHERS

Rim: 425.18' Rim to Invert: 8.14' Slack: 0.68" Sump: 4" Step Position: 0°

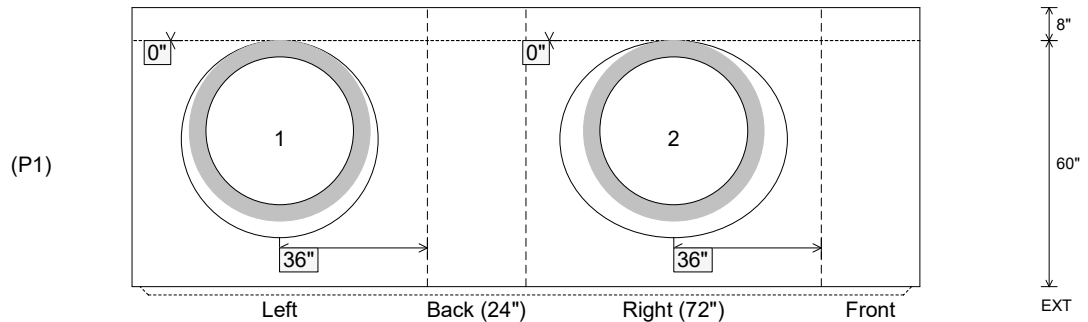
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	417.04'	270°	44"	36" RCP B WALL	44"	Hole 48	48"	48"	0"	0"
Invert 2	417.04'	120°	48.625"	36" RCP B WALL	44"	Hole 48	48"	55.426"	0"	-6"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):	Seam Up: Tongue	Wall Thickness: 8"	Height (Int): 60"	Weight (Net): 8768 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 8"	Height (Ext): 68"	Volume (Net): 2.24cu.yd



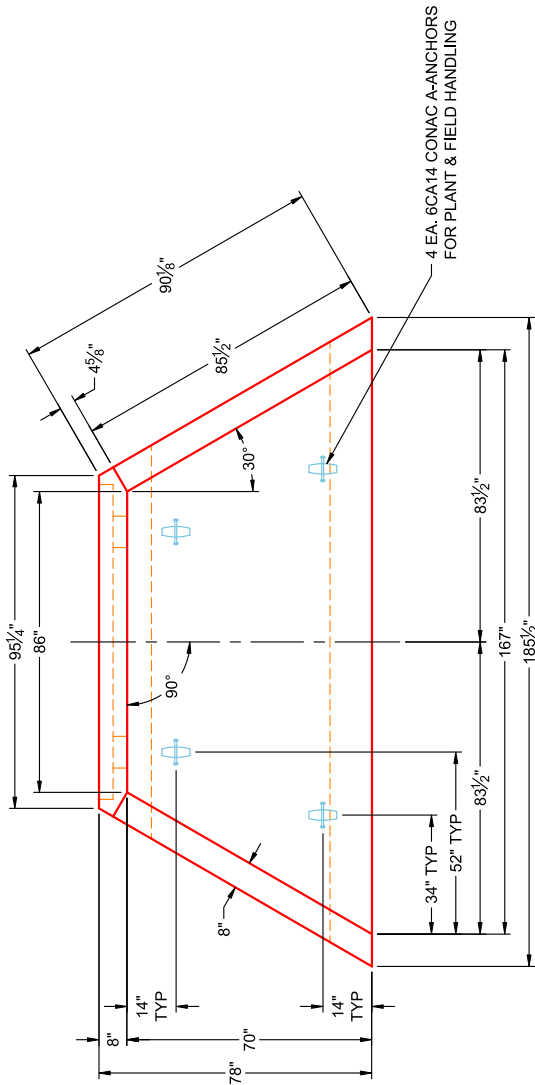
Structure ID: BC 6 x 4 HW (1)

P1 HWCUSTOM

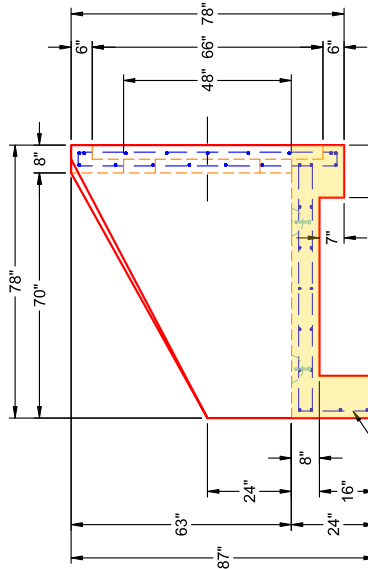
72" x 48" - BOX CULVERT HEADWALL F/F

GENERAL NOTES:

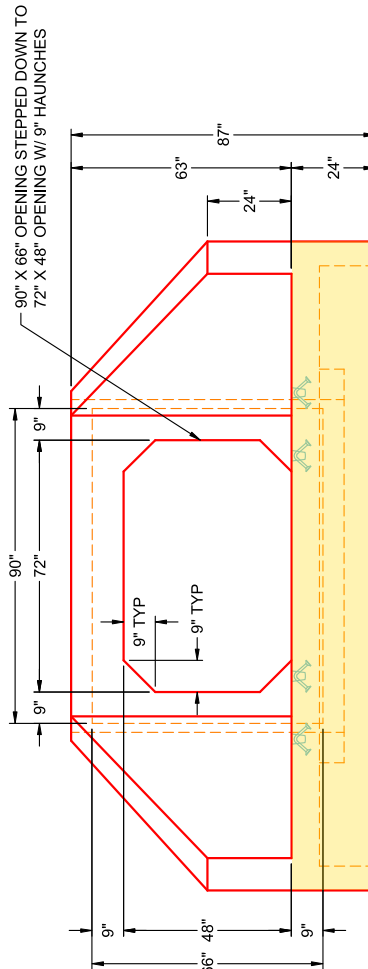
- DRAWING TO BE USED IN CONJUNCTION WITH KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1100-02, RDH-1200-02, & RDH-1300-03
- REINFORCEMENT PER ATTACHED KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1200-02, & RDH-1300-03 - 2" MIN. REBAR CLEARANCE (TYP)
- CONCRETE: 5,000 PSI AT 28 DAYS
- TOTAL WEIGHT: 17,065 LBS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



**PLAN VIEW
(RIGHT SIDE UP)**



**SIDE VIEW
(RIGHT SIDE UP)**



**FRONT VIEW
(RIGHT SIDE UP)**

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





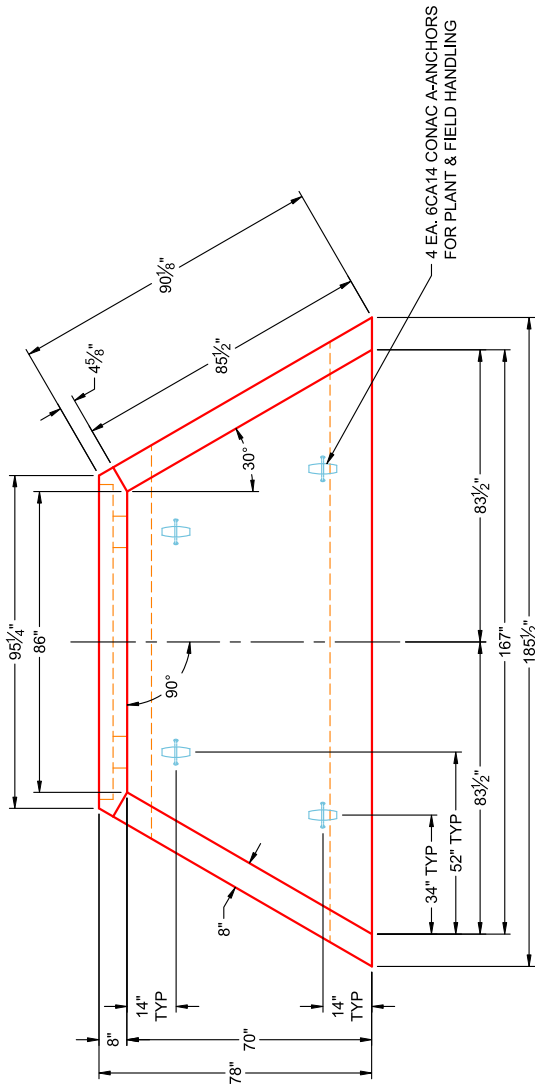
Structure ID: BC 6 x 4 HW (1)

P1 HWCUSTOM

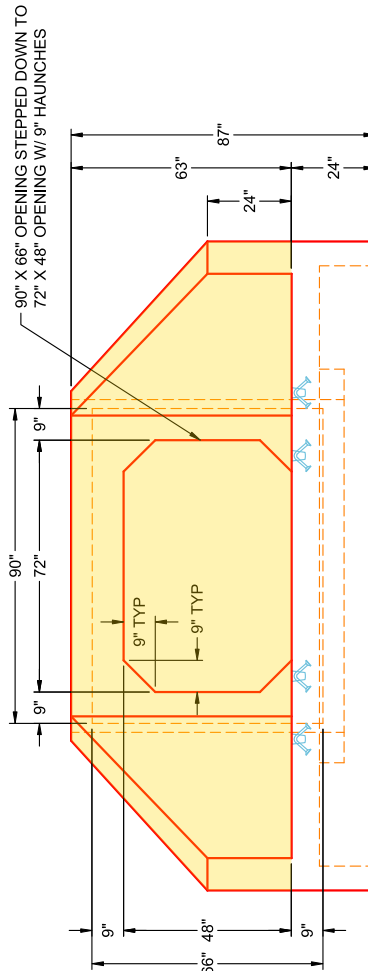
72" x 48" - BOX CULVERT HEADWALL F/F

GENERAL NOTES:

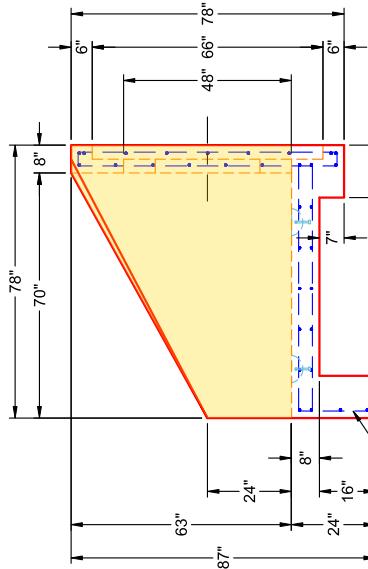
- DRAWING TO BE USED IN CONJUNCTION WITH KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1100-02, RDH-1200-02, & RDH-1300-03
- REINFORCEMENT PER ATTACHED KYTC STANDARD DRAWINGS RDH-1000-02, RDH-1200-02, & RDH-1300-03 - 2" MIN. REBAR CLEARANCE (TYP)
- CONCRETE: 5,000 PSI AT 28 DAYS
- TOTAL WEIGHT: 17,065 LBS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



**PLAN VIEW
(RIGHT SIDE UP)**



**FRONT VIEW
(RIGHT SIDE UP)**



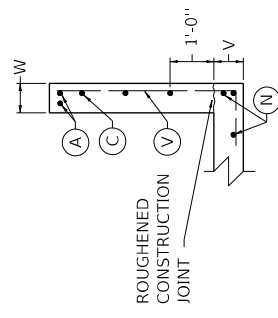
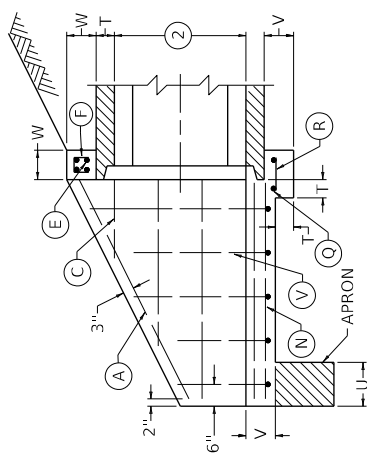
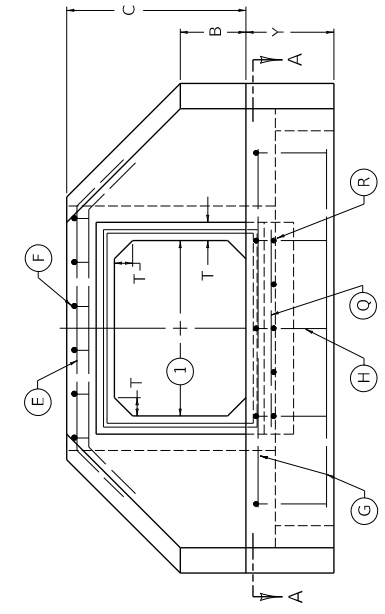
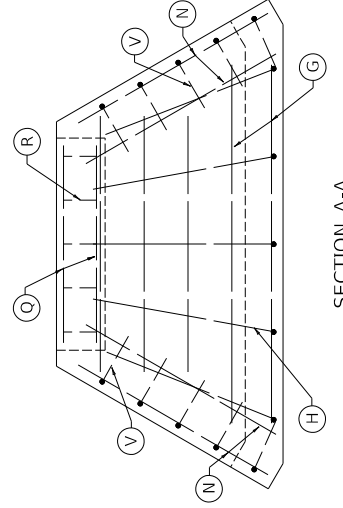
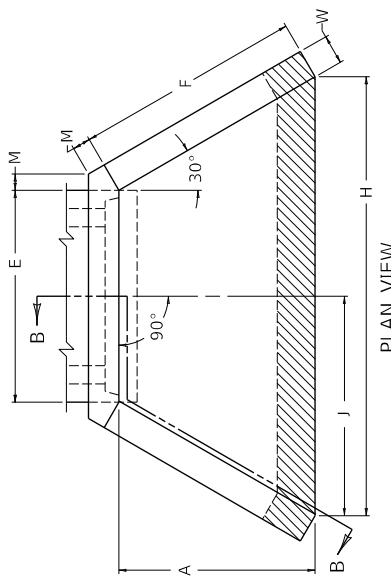
**SIDE VIEW
(RIGHT SIDE UP)**

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



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DRAWING SCALE:
 $\frac{1}{2}'' = 1'$



ROUGHENED CONSTRUCTION JOINT

NOTES

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

(LAYOUT AND STEEL PATTERN)

KENTUCKY
 DEPARTMENT OF HIGHWAYS

PRECAST BOX CULVERT
 HEADWALLS - 0° SKEW
 (BOX RISE LESS THAN 6'-0")

STANDARD DRAWING NO. RDH-1000-02

APPROVED _____ DIRECTOR DIVISION OF DESIGN _____ DATE _____
 STATE HIGHWAY ENGINEER _____ SIZE _____

PRECAST BOX CULVERT

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

KENTUCKY
DEPARTMENT OF HIGHWAYS
DIMENSIONS
3' x 2' - 6' x 6' HEADWALLS
PRECAST BOX CULVERT
0° SKEW
STANDARD DRAWING NO. RDH-1100-02
SUBMITTED: _____ DIRECTOR DIVISION OF DESIGN _____ DATE: _____
APPROVED: _____ STATE HIGHWAY ENGINEER _____ SEAL: _____

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

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

- ① PRECAST CONCRETE BOX CULVERT SECTIONS EQUALS THE INTERIOR SPAN (S) BY THE INTERIOR RISE (R) IN FEET.
- ② CU. YDS. OF CONCRETE IN TWO HEADWALLS WITH PAVING.
- ③ CU. YDS. OF CONCRETE IN TWO APRONS (HEADWALLS WITH PAVING).
- ④ CU. YDS. OF CONCRETE IN TWO PAVED AREAS OF THE HEADWALLS.
- ⑤ CU. YDS. OF CONCRETE IN TWO APRONS (HEADWALLS WITHOUT PAVING).
- ⑥ CU. YDS. OF CONCRETE IN TWO HEADWALLS WITHOUT PAVING.
- ⑦ POUNDS OF REINFORCING STEEL IN TWO HEADWALLS WITH PAVING.
- ⑧ POUNDS OF REINFORCING STEEL TO DEDUCT WHEN PAVING FOR TWO HEADWALLS IS ELIMINATED.

KENTUCKY DEPARTMENT OF HIGHWAYS	
QUANTITIES 3' x 2' - 12' x 12' H-WALLS PRECAST BOX CULVERTS 0° SKEW	
SUBMITTED: _____	DATE: _____
APPROVED: _____	STATE HIGHWAY ENGINEER
STANDARD DRAWING NO. RDH-1200-02	

Job Name: 25-2898 - Hunter's Ridge Ph.1	Plant: 100	Tech: Jared - A	
Job Location: Owensboro, KY Contractor: Ernie Davis & Sons Mechanical, Inc.	5/29/2026 8:45:14 AM	PC: A. Chambers	

Structure ID: AA-2

P2 BX024072-08RSVF

BOX RISER 8inW, Variable Ht F/G

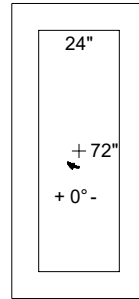
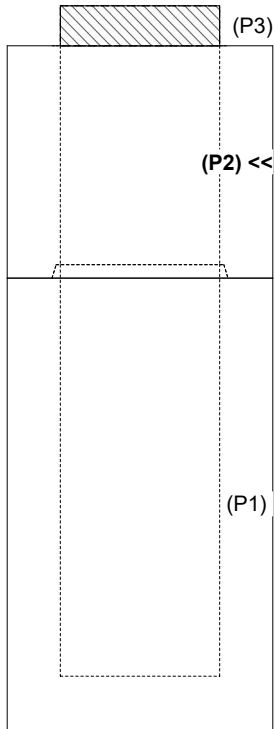
P3) 24" x 72" - CASTING HEIGHT - 6"	0 lb
P2) 24" x 72" - BOX RISER 8inW, Variable Ht F/G - 35"	5263 lb
P1) 24" x 72" - BOX BASE 8inW, 8inF, Variable Ht T/n - 60"	8768 lb
1) SECONDARY POUR	0 lb
2) 24" x 72" - Conseal CS-102 1.00"	0 lb
2) Hole - 48	0 lb
Structure Total:	14031 lb

- Structures Notes:**
- PER 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 STEPS
 - HOE-525 DOUBLE FRAMES, GRATES, & CURB HOODS SUPPLIED BY OTHERS
 - LIFTERS: 4 EA. 5CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED IN 90° & 270° WALLS, 12" FROM TOP OF WALLS

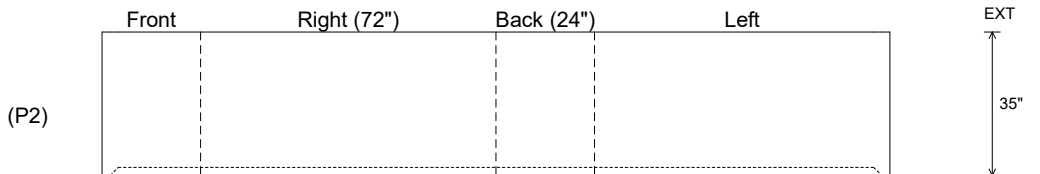
Rim: 425.18' Rim to Invert: 8.14' Slack: 0.68" Sump: 4" Step Position: 0°

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

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 8" Floor Height: 0"	Height (Int): 35" Height (Ext): 35"	Weight (Net): 5263 lb Volume (Net): 1.34cu.yd
----------------------------------	----------------------------------	--	--	--

Job Name: 26-2257 - 233 SE Third St.
 Job Location: Evansville, IN
 Contractor: Empire Contractors, Inc.

Plant: 100

6/1/2026 8:28:10 AM

Tech: Jared - A

PC: E. Bradley



Structure ID: AD 502 ST-AD

P2 BX4848_08LD06

CB FLAT TOP 8"W w/30"x30" HOLE F/F

- P3) 30" x 30" - CASTING HEIGHT - 4"
- P2) 48" x 48" - CB FLAT TOP 8"W w/30"x30" HOLE F/F - 6"
- P1) 48" x 48" - BOX BASE 8inW, 8inF, Variable Ht F/n - 41"
- 1) CASTING - HOE 468 F/G
- 1) 48" x 48" - Conseal CS-102 1.00"
- 1) 30" x 30" - Conseal CS-102 1.00"
- 1) Hole - 12
- 2) Hole - 38

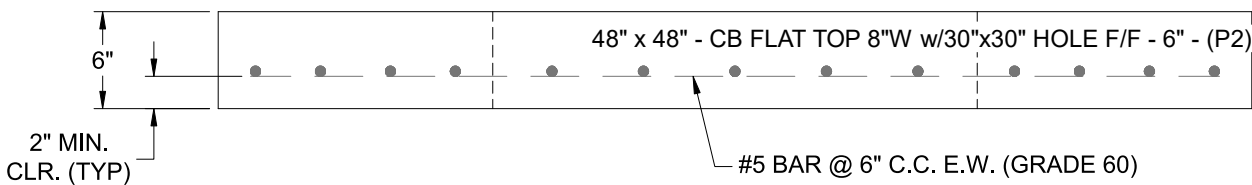
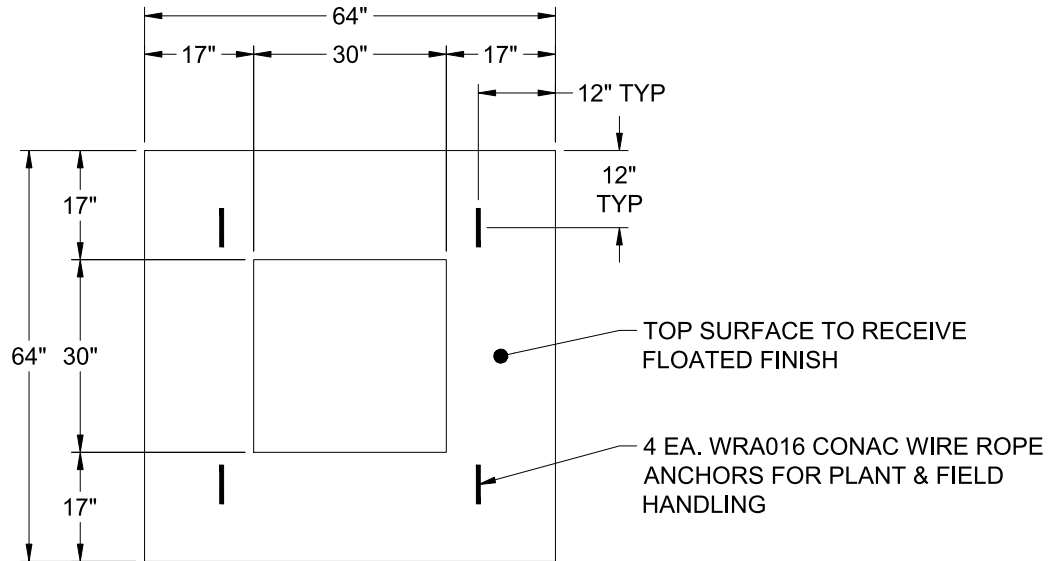
0 lb
 1609 lb
 7316 lb
 489 lb
 0 lb
 0 lb
 0 lb
 0 lb

 9414 lb

Structure Total:

Structure Notes:

1. PER ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,000 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
4. HOE 468 FRAME & GRATE SUPPLIED BY ICAST
5. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
6. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 6"

Weight (Net): 1609 lb
 Volume (Net): 0.41cu.yd

Job Name: 26-2257 - 233 SE Third St.
 Job Location: Evansville, IN
 Contractor: Empire Contractors, Inc.

Plant: 100

6/1/2026 8:28:10 AM

Tech: Jared - A

PC: E. Bradley



Structure ID: AD 500 ST-AD

P2 BX4848_08LD06

CB FLAT TOP 8"W w/30"x30" HOLE F/F

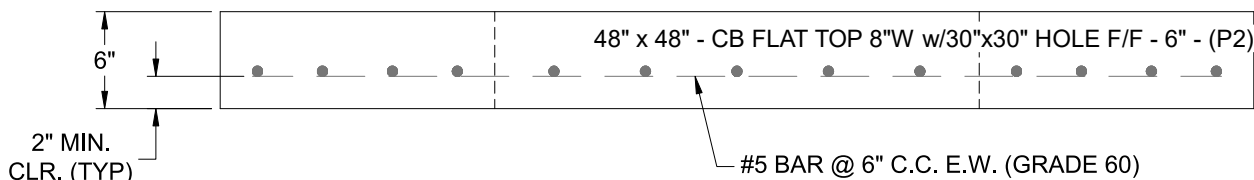
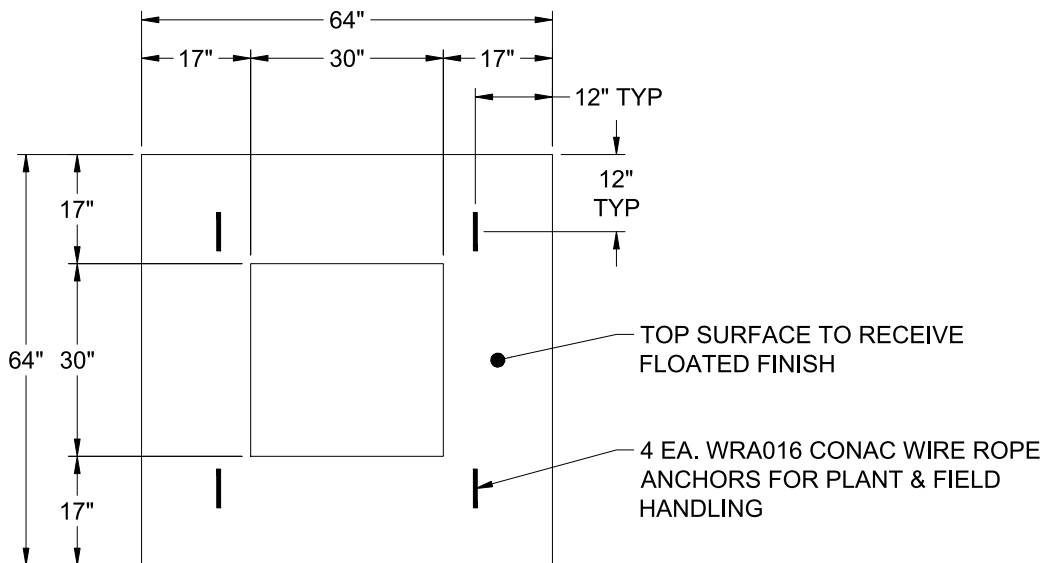
- P3) 30" x 30" - CASTING HEIGHT - 4"
- P2) 48" x 48" - CB FLAT TOP 8"W w/30"x30" HOLE F/F - 6"
- P1) 48" x 48" - BOX BASE 8inW, 8inF, Variable Ht F/n - 41"
- 1) CASTING - HOE 468 F/G
- 1) 48" x 48" - Conseal CS-102 1.00"
- 1) 30" x 30" - Conseal CS-102 1.00"
- 1) Hole - 12
- 2) Hole - 38

0 lb
 1609 lb
 7316 lb
 489 lb
 0 lb
 0 lb
 0 lb
 0 lb

 9414 lb

Structure Total:

- Structure Notes:
1. PER ASTM C-913 SPECIFICATIONS
 2. CONCRETE: 4,000 PSI AT 28 DAYS
 3. REINFORCEMENT: #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
 4. HOE 468 FRAME & GRATE SUPPLIED BY ICAST
 5. LIFTERS: 4 EA. WRA016 CONAC WIRE ROPE ANCHORS FOR PLANT & FIELD HANDLING
 6. TOP SURFACE TO RECEIVE FLOATED FINISH



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 6"

Weight (Net): 1609 lb
 Volume (Net): 0.41cu.yd

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

Plant: 100

Tech: J. Horsley

5/19/2026 12:59:16 PM

PC: C. Golf



Structure ID: CBI-C2

P1 BX3660-08BAVF

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

- P5) 24" x 120" - CB INLET KY A 10' TOP RIGHT F/G - 10"
- P4) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT T/G - 18"
- P3) 36" x 60" - CB FT REDUCER 24"X36" HOLE T/F - 8"
- P2) 36" x 60" - BOX RISER 8inW, Variable Ht F/G - 42"
- P1) 36" x 60" - BOX BASE 8inW, 8inF, Variable Ht T/n - 87"
- 1) CASTING - HOE KY-206 F/C (KY CBI A)
- 1) SNOUT - BMP SNOUT 30F w/ KIT
- 2) 36" x 60" - Conseal CS-102 1.00"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 1) Hole - 32
- 1) DOGHOUSE INVRTD - 32"x29"

3398 lb
 5270 lb
 2073 lb
 5521 lb
 15195 lb
 206 lb
 25 lb
 0 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 31688 lb

Structure Notes:

1. PER KYTC CBI A / ASTM C913 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING (HOE KY-206) TO BE CAST INTO TOP PHASE.
4. BMP SNOUT 18F w/KIT.

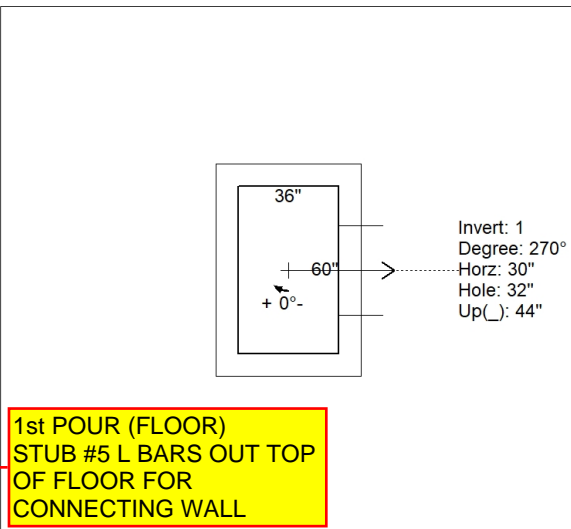
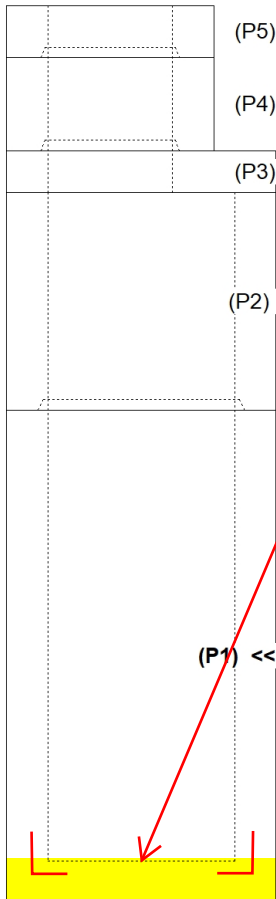
REINFORCING PER ASTM AS615 (GRADE 60).
 - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
 - BASE WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - BASE FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 884.19' Rim to Invert: 9.79' Slack: 0.48" Sump: 48" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	874.4'	270°	38"	24" ADS N-12	28"	Hole 32	32"	32"	44"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

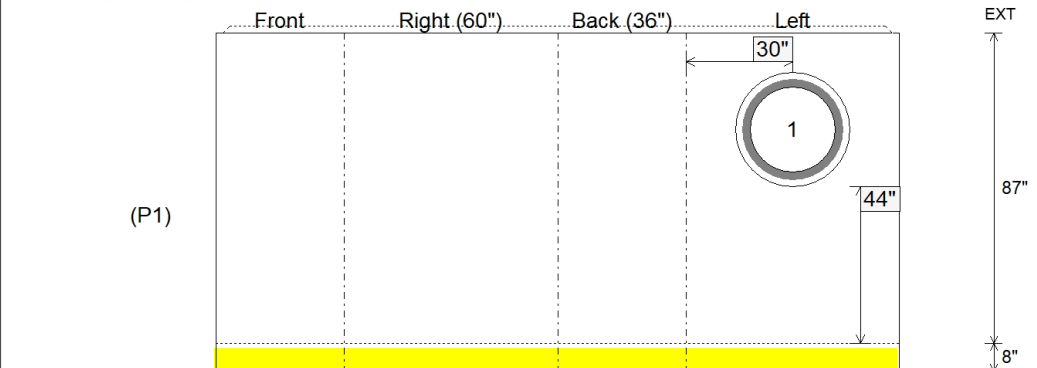
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



**1st POUR (FLOOR) = 2,664 LBS
 2nd POUR (WALLS) = 12,531 LBS**

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 8"
 Floor Height: 8"

Height (Int): 87"
 Height (Ext): 95"

Weight (Net): 15195 lb
 Volume (Net): 3.88cu.yd

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

Plant: 100

Tech: J. Horsley

5/19/2026 12:59:16 PM

PC: C. Golf



Structure ID: CBI-C2

P1A BX3660-08BAVF

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

- P5) 24" x 120" - CB INLET KY A 10' TOP RIGHT F/G - 10"
- P4) 24" x 120" - CB INLET KY A 10' BOTTOM RIGHT T/G - 18"
- P3) 36" x 60" - CB FT REDUCER 24"X36" HOLE T/F - 8"
- P2) 36" x 60" - BOX RISER 8inW, Variable Ht F/G - 42"
- P1) 36" x 60" - BOX BASE 8inW, 8inF, Variable Ht T/n - 87"
- 1) CASTING - HOE KY-206 F/C (KY CBI A)
- 1) SNOUT - BMP SNOUT 30F w/ KIT
- 2) 36" x 60" - Conseal CS-102 1.00"
- 1) 24" x 36" - Conseal CS-102 1.00"
- 1) Hole - 32
- 1) DOGHOUSE INVRTD - 32"x29"

3398 lb
 5270 lb
 2073 lb
 5521 lb
 15195 lb
 206 lb
 25 lb
 0 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 31688 lb

Structure Notes:

1. PER KYTC CBI A / ASTM C913 SPEC'S.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING (HOE KY-206) TO BE CAST INTO TOP PHASE.
4. BMP SNOUT 18F w/KIT.

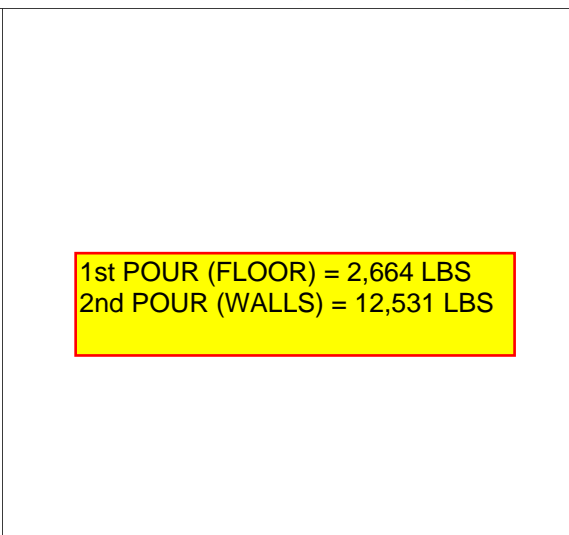
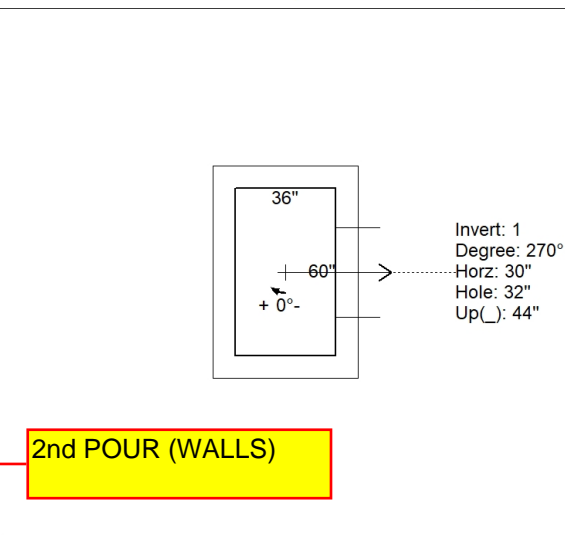
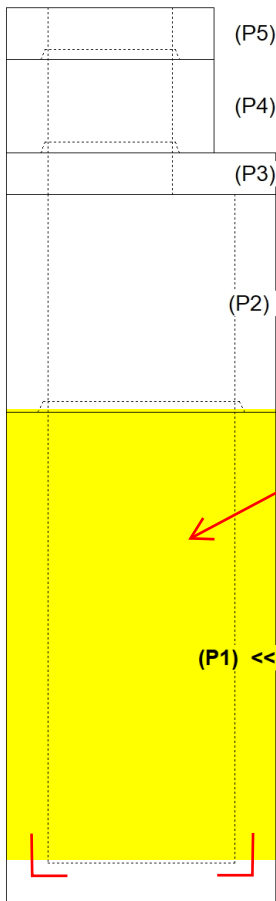
REINFORCING PER ASTM AS615 (GRADE 60).
 - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
 - BASE WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - BASE FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 884.19' Rim to Invert: 9.79' Slack: 0.48" Sump: 48" Step Position:

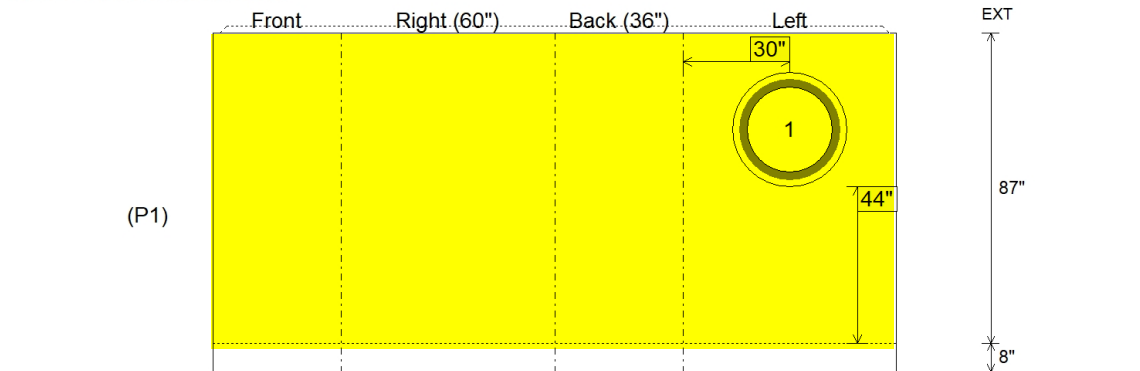
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	874.4'	270°	38"	24" ADS N-12	28"	Hole 32	32"	32"	44"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



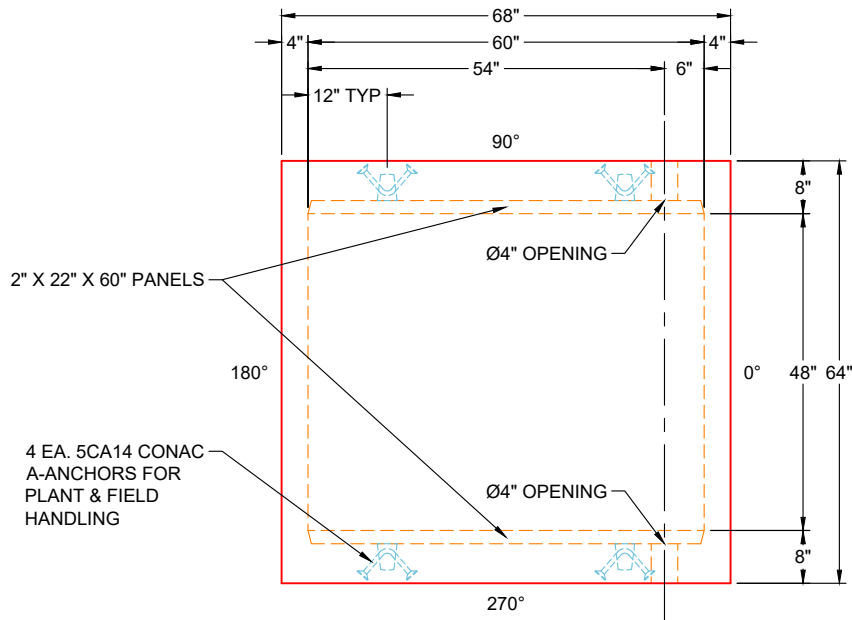
Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

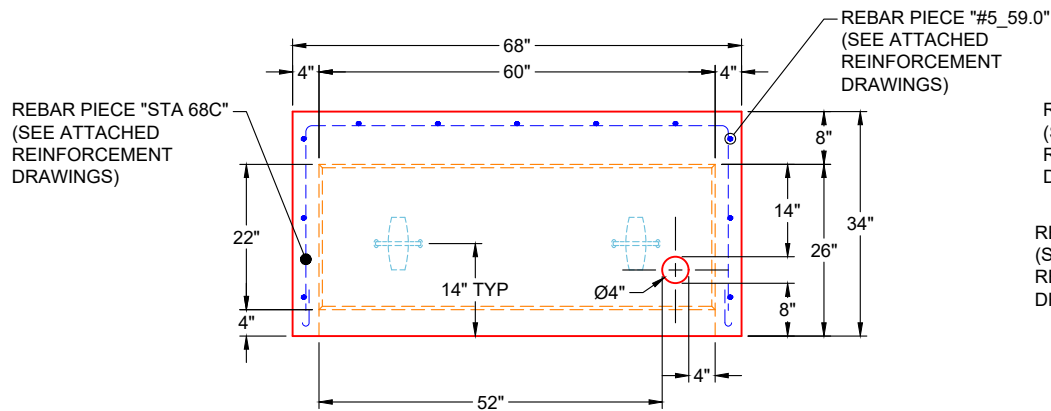
Wall Thickness: 8"
 Floor Height: 8"

Height (Int): 87"
 Height (Ext): 95"

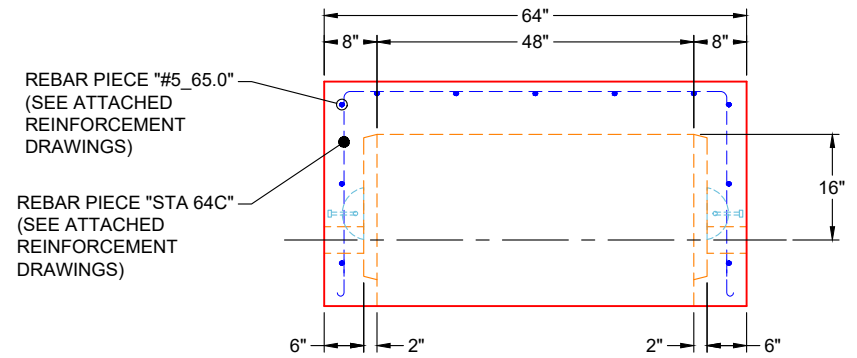
Weight (Net): 15195 lb
 Volume (Net): 3.88cu.yd



**PLAN VIEW
(UPSIDE DOWN)**



**FRONT VIEW
(UPSIDE DOWN)**



**SIDE VIEW
(UPSIDE DOWN)**

GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION)
2. CONCRETE: 5,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ATTACHED REINFORCEMENT DRAWINGS - MIN. 1½" REBAR CLEARANCE
4. WEIGHT: 5,890 LBS

PRODUCTION NOTE
PLEASE USE SPECIFIC VSG 48" X 60"
MOLD FOR THIS STRUCTURE

PRODUCTION WORK ORDER

PRODUCT I.D.: BX4860-04W08F-BAVF

DESCRIPTION: 48" X 60" X 26" VAULT BASE



QUALITY CONTROL CHECKLIST

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

PRODUCT VIEW: UPSIDE DOWN

CUSTOMER: ENDESOL, INC.

PLANT: BEAVER DAM, KY

PROJECT: 1-26 691249488

WEIGHT: 5,890 LBS

STRUCTURE: 4-61615 (EFX-60 STATIONARY VAULT)

TOP SECTION JOINT: N / A

ORDER NO: 26-1615

BASE SECTION JOINT: FLAT

PE: J.H. ROSS

DRAWING: J. HORSLEY

QC CHECK INITIALS:

DATE: 03/25/26

SCALE: NTS

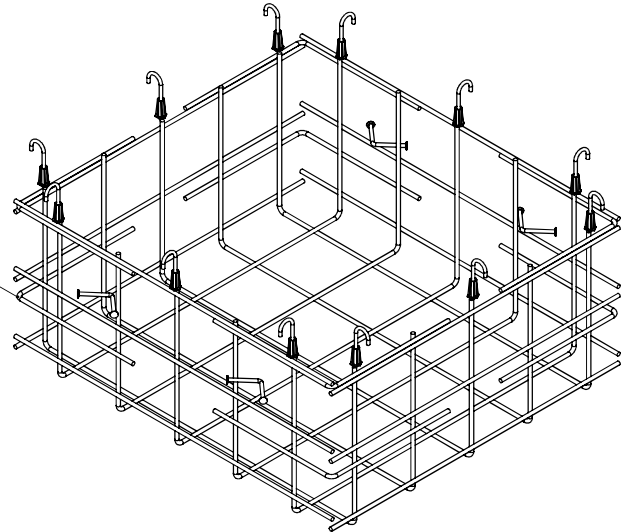
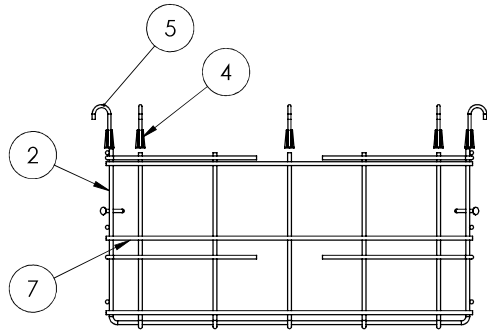
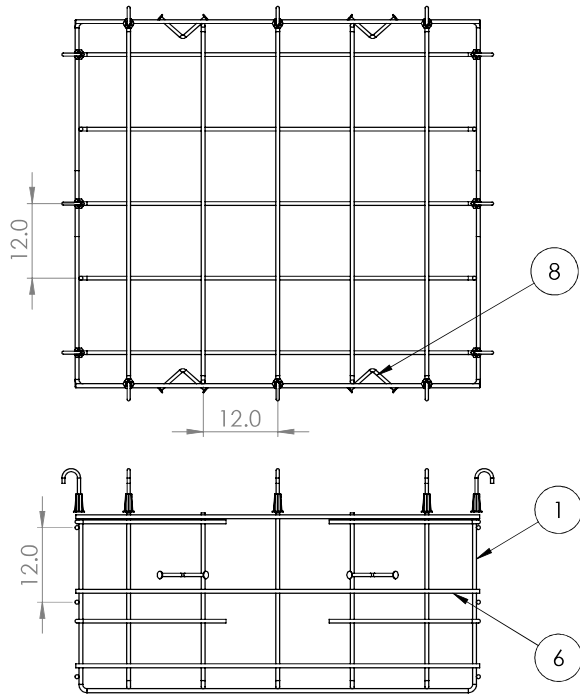
PG. 2 OF 2

4

3

2

1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	STA 68C	#5 Rebar C Shape	5
2	STA 64C	#5 Rebar C Shape	5
3	STA 2424L	#5 Rebar L 24" x 24"	8
4	TSI 50x278	Threaded Anchor	12
5	J Bolt 42117	#4 Rebar J	12
6	#5_65.0	#5 Rebar 65" Long	6
7	#5_59.0	#5 Rebar 59" Long	6
8	LUL514G	Lift Hook	4

- NOTES:
1. Rebar: #5 A614 Grade 60
 2. All Rebar to have 1.5" Cover Minimum

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ENDESOL INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ENDESOL INC. IS PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	CMJ 3-25-16
		TOLERANCES:	CHECKED	JHR 3-25-16
		FRACTIONAL ± 1/8"	ENG APPR.	XXXX XXXX
		TWO PLACE DECIMAL ±.13	MFG APPR.	XXXX XXXX
		THREE PLACE DECIMAL ±.125	Q.A.	XXXX XXXX
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:	
		MATERIAL	#5 REBAR	
		FINISH	MILL	
NEXT ASSY	USED ON	APPLICATION		
		DO NOT SCALE DRAWING		

ENDESOL

TITLE: EFX-60 Stationary Rebar Detail

SIZE	DWG. NO.	REV
B	EFX-60 STA Rebar	X2

SCALE: 1:20 WEIGHT: SHEET 1 OF 1

4

3

2

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A

A



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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL
 ANGULAR: MACH BEND
 TWO PLACE DECIMAL
 THREE PLACE DECIMAL

MATERIAL

FINISH

DO NOT SCALE DRAWING

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

#5 Rebar C
 Shape

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SIZE A	DWG. NO. STA 68C	REV.
SCALE:1:50	WEIGHT:	SHEET 1 OF 1

2

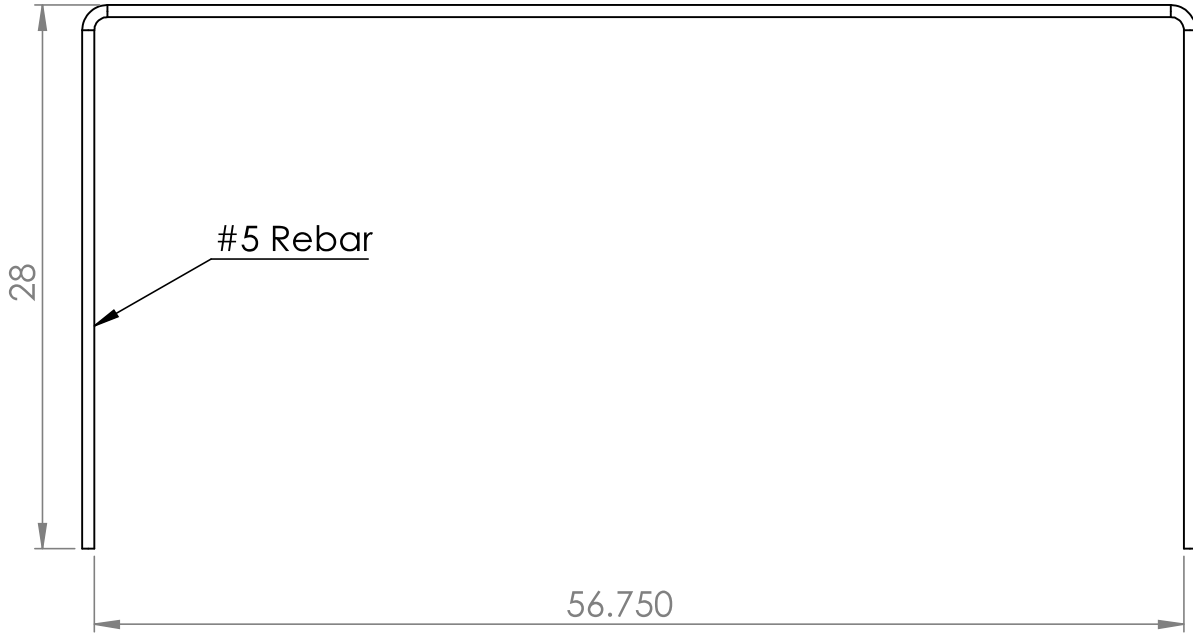
1

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL
 ANGULAR: MACH BEND
 TWO PLACE DECIMAL
 THREE PLACE DECIMAL

MATERIAL

FINISH

DO NOT SCALE DRAWING

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

#5 Rebar C
 Shape

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 AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF iCast IS PROHIBITED.

SIZE A	DWG. NO. STA 64C	REV.
SCALE:1:50	WEIGHT:	SHEET 1 OF 1

2

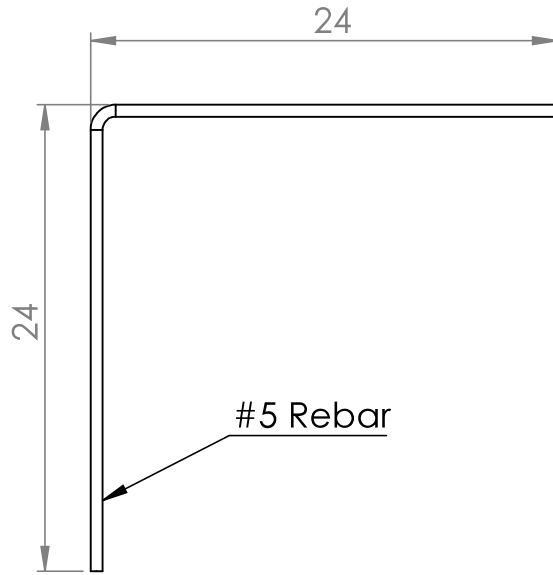
1

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL
 ANGULAR: MACH BEND
 TWO PLACE DECIMAL
 THREE PLACE DECIMAL

MATERIAL

FINISH

DO NOT SCALE DRAWING

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

#5 Rebar L 24" x
 24"

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 AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF iCast IS PROHIBITED.

SIZE A	DWG. NO. STA 2424L	REV.
SCALE:1:50	WEIGHT:	SHEET 1 OF 1

2

1

Job Number:

26-1615

Job Name:

1-26 691249488

Structure:

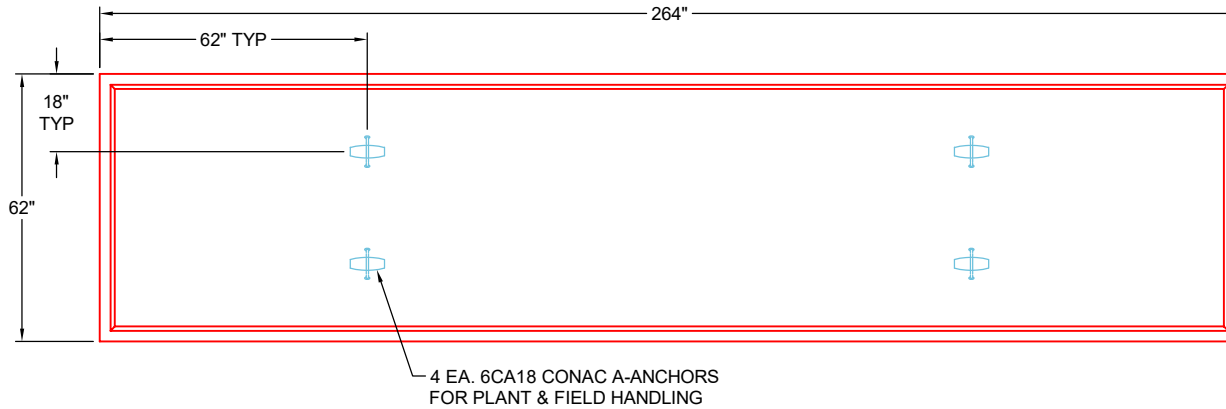
4-61615

Note:

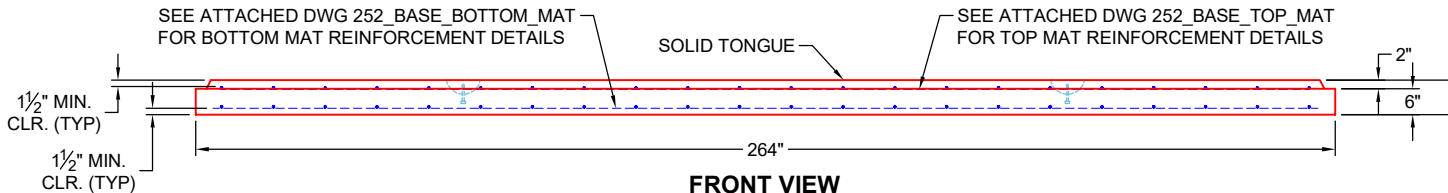
Nosing Kit To Be Shipped. See Chad Jarvis.

GENERAL NOTES:

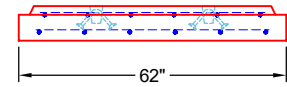
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION)
2. CONCRETE: 5,000 PSI AT 28 DAYS
3. REINFORCEMENT - MIN. 1½" REBAR CLEARANCE:
 - TOP MAT: PER ATTACHED DWG 252_BASE_TOP_MAT
 - BOTTOM MAT: PER ATTACHED DWG 252_BASE_BOTTOM_MAT
4. WEIGHTS: 11,502 LBS




**PLAN VIEW
(RIGHT SIDE UP)**

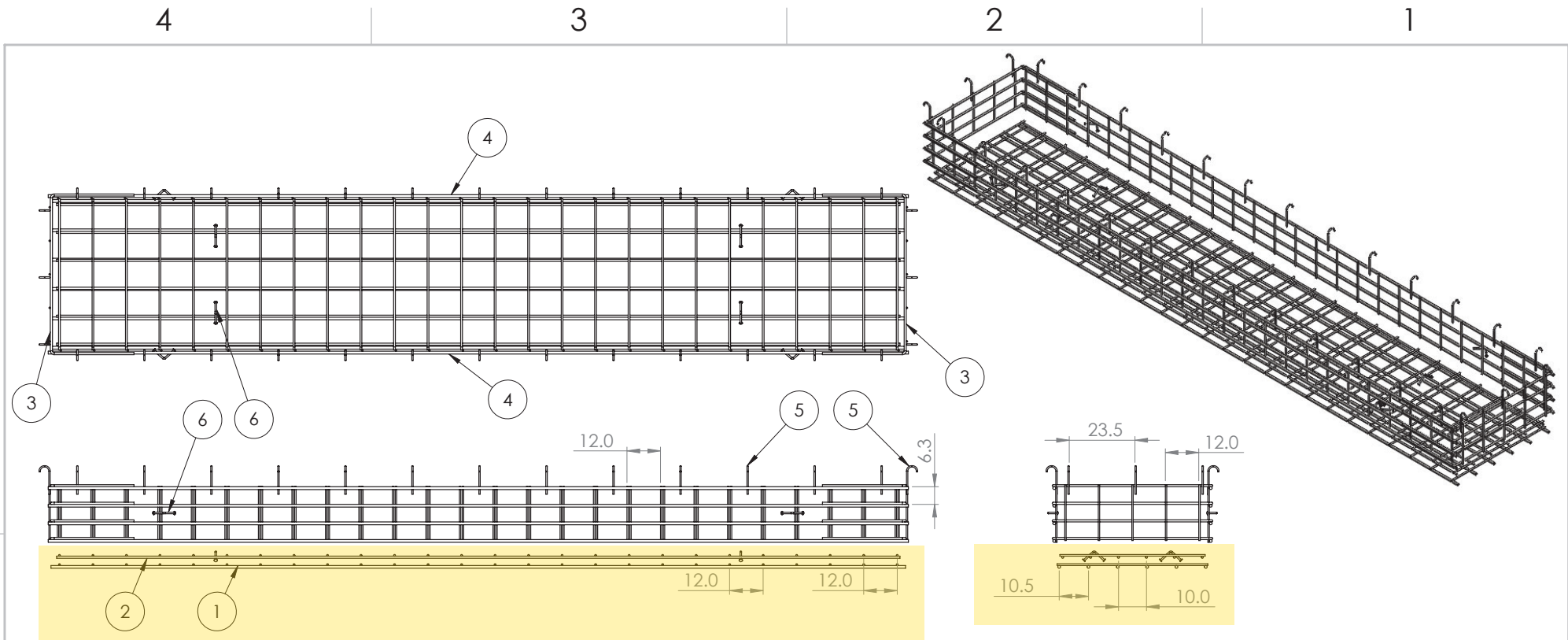


**FRONT VIEW
(RIGHT SIDE UP)**



**SIDE VIEW
(RIGHT SIDE UP)**

PRODUCTION WORK ORDER		PRODUCT I.D.: CVBS	DESCRIPTION: 62" X 264" X 8" SEPARATE BASE SLAB		
	QUALITY CONTROL CHECKLIST <input type="checkbox"/> ALL DIMENSIONS CORRECT. <input type="checkbox"/> LIFTERS INSTALLED. <input type="checkbox"/> CORRECT THICKNESS. <input type="checkbox"/> REINFORCING CORRECT. <input type="checkbox"/> FINISH ON SLAB SURFACE UNIFORM. <input type="checkbox"/> OUTSIDE TOP EDGE TROWELLED. <input type="checkbox"/> SOLID TONGUE JOINT INSTALLED.	PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: ENDESOL, INC.		
		PLANT: BEAVER DAM, KY	PROJECT: 1-26 691249488		
		WEIGHT: 11,502 LBS	STRUCTURE: 2-61615 2 (EFX-60 21 PN VAULT)		
		TOP SECTION JOINT: N / A	ORDER NO: 26-1615		
		BASE SECTION JOINT: SOLID TONGUE	PE: J.H. ROSS	DRAWING: J. HORSLEY	
		QC CHECK INITIALS:	DATE: 04/24/26	SCALE: NTS	PG. 1 OF 1



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

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

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

4

3

2

1

A

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B

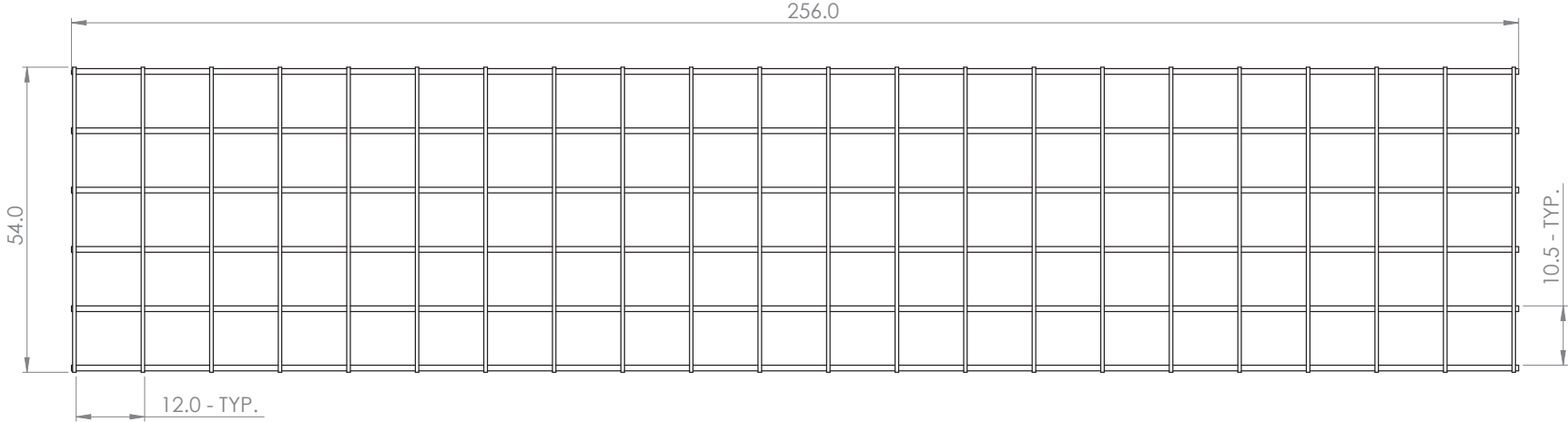
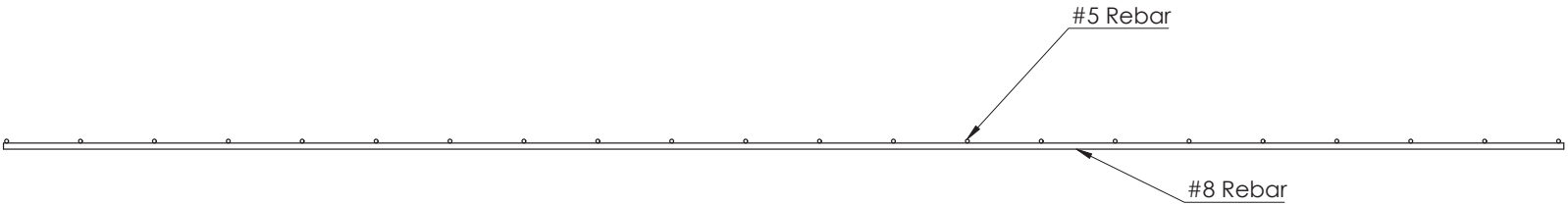
4

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1

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



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

MATERIAL
 FINISH
 DO NOT SCALE DRAWING

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

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

4

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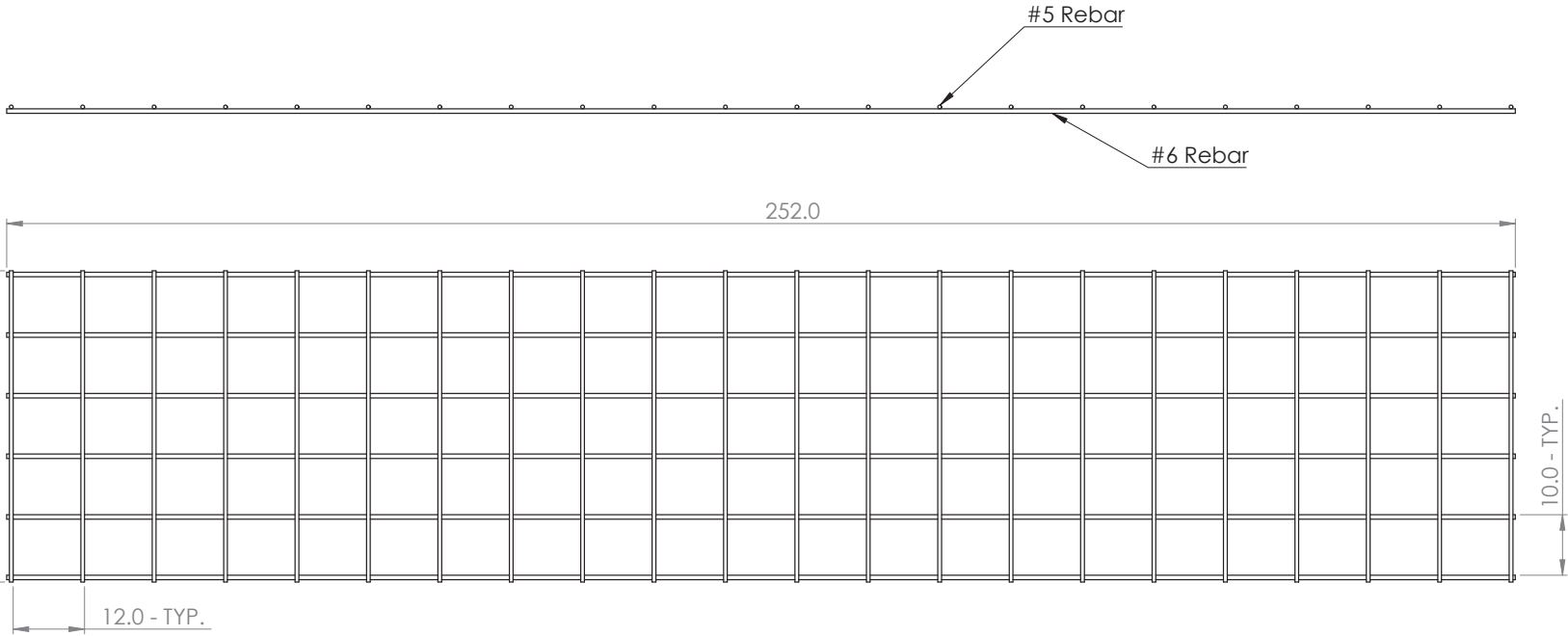
4

3

2

1

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



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

MATERIAL
 FINISH
 DO NOT SCALE DRAWING

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

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

4

3

2

1

B

B

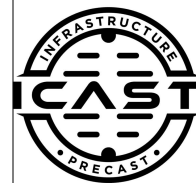
A

A

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

Plant: 100
 2/17/2026 10:39:13 AM

Tech: J. Horsley
 PC: J. Jarvis



Structure ID: H7

P2 BX024024-06LD08S

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

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

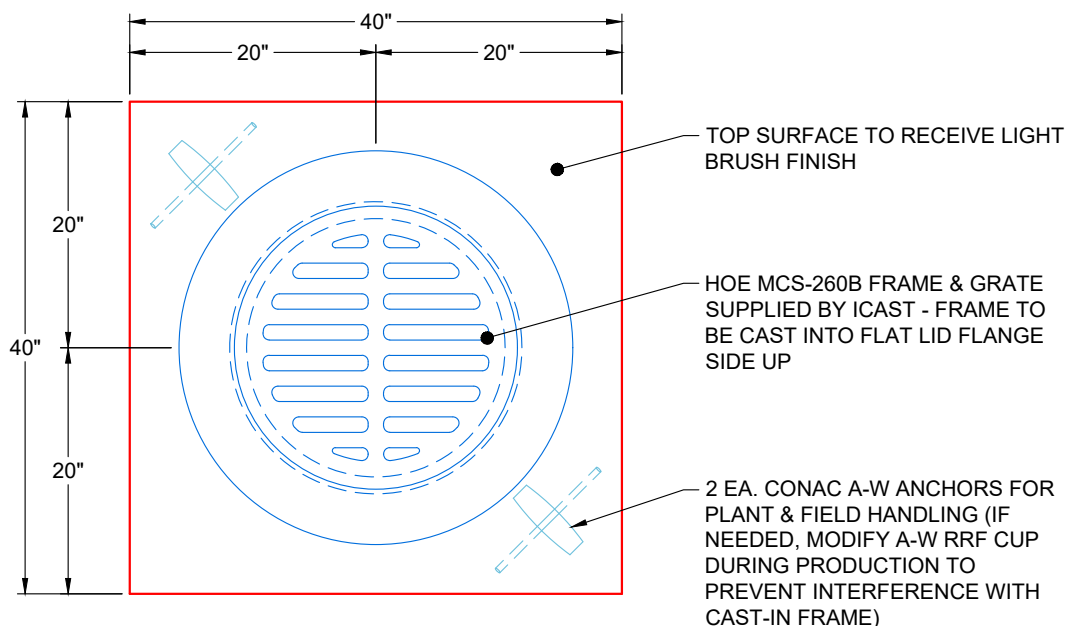
0 lb
 750 lb
 2705 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb

 3455 lb

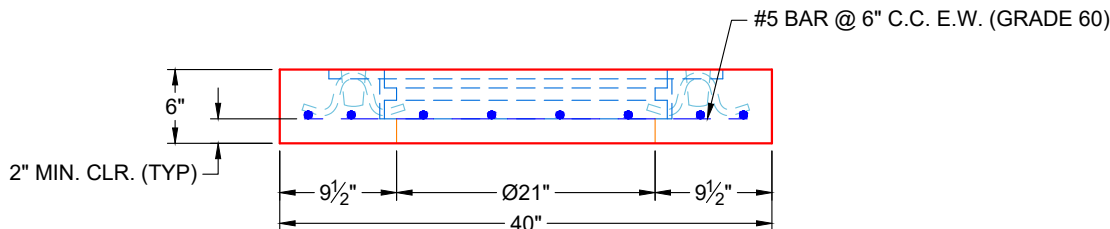
Structure Total:

Structure Notes:

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



PLAN VIEW
(RIGHT SIDE UP)



FRONT VIEW
(RIGHT SIDE UP)

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 6"

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

Job Number:

25-4299

Job Name:

Dan Cristiani Excavating Co. Inc.

Structure:

H7

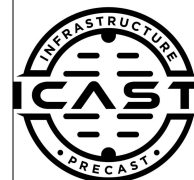
Note:

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

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

Plant: 100
 2/17/2026 10:39:14 AM

Tech: J. Horsley
 PC: J. Jarvis



Structure ID: H9

P2 BX024024-06LD08S

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

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

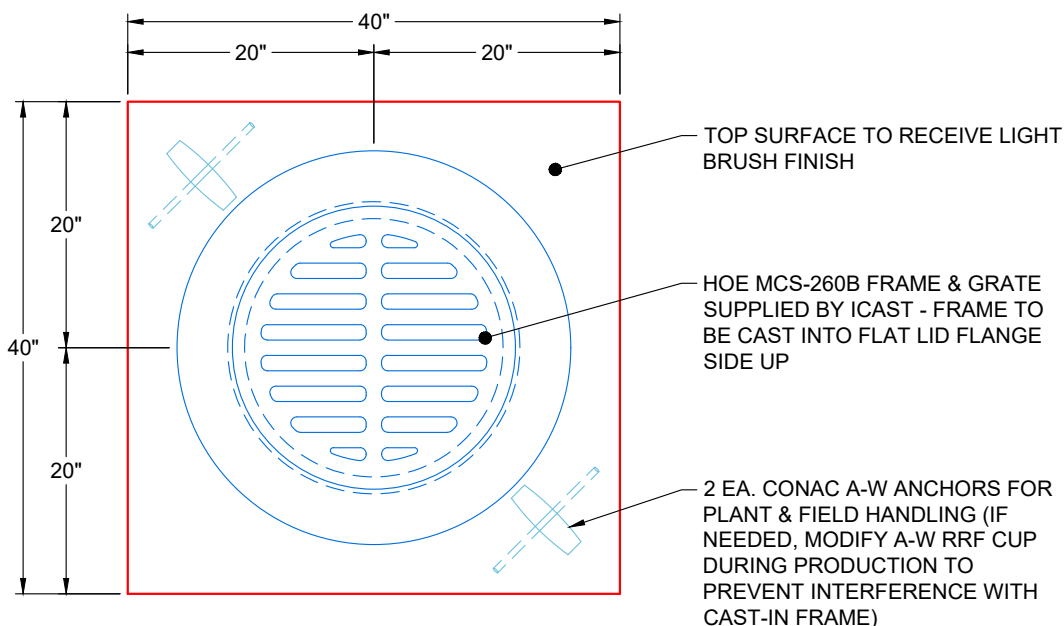
0 lb
 750 lb
 2584 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb

 3334 lb

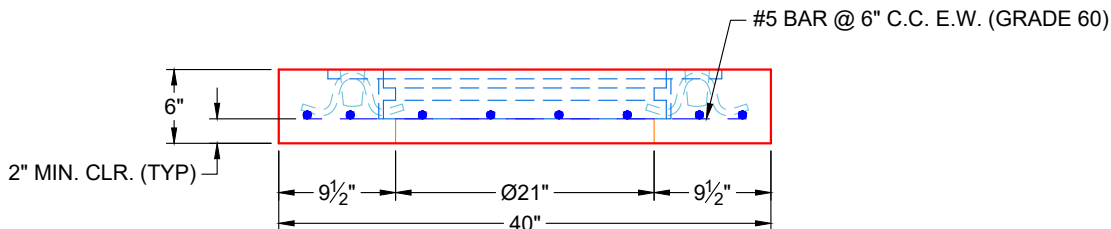
Structure Total:

Structure Notes:

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



PLAN VIEW
(RIGHT SIDE UP)



FRONT VIEW
(RIGHT SIDE UP)

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 8"

Height (Ext): 6"

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

Job Number:

25-4299

Job Name:

Dan Cristiani Excavating Co. Inc.

Structure:

H9

Note:

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