

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:02 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: CBI-402

P1 BX24120-08BVF

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

- P2) 24" x 120" - CB INLET KY A 10' TOP SAG F/G - 10"
- P1) 24" x 120" - BOX BASE 8inW, 8inF, Variable Ht T/n - 46"
- 1) CASTING - HOE KY-206 F/C (KY TY1)
- 1) 24" x 120" - Conseal CS-102 1.00"
- 2) Hole - 30
- 1) Horiz Slot n/n - 120"x7"

3398 lb
 12057 lb
 206 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 15661 lb

- Structure Notes:**
1. PER KYTC CBI TYPE A / ASTM C913 SPEC'S.
 2. CONCRETE = 4,000 PI AT 28 DAYS.
 3. NO INVERT CHANNEL
 4. CASTING BY ICAST (HOE KY-206 F/C)CAST INTO TOP SLAB.
 5. KYTC CBI TYPE A STYLE NOTCH (120"x8") AT 90°. STUB #5 BARS 20" OUT TOP OF NOTCH. SPA. AT 12" C/C.

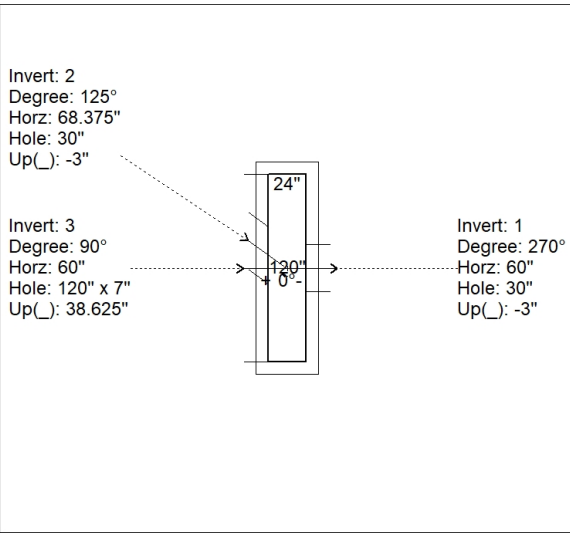
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
 WALLS (HORIZ.)= #5 BARS AT 12" C/C.
 WALLS (VERT.)= #5 BARS AT 6" C/C.
 FLOOR = #5 BARS AT 6" C/C EA. WAY

Rim: 882.93' Rim to Invert: 4.72' Slack: 0.64" Sump: 0" Step Position:

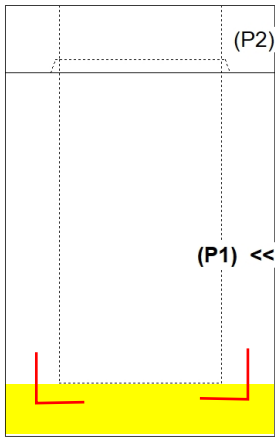
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	878.21'	270°	68"	24" HDPE	27.8"	Hole 30	30"	30"	-3"	0"
Invert 2	878.21'	125°	82"	24" HDPE	27.8"	Hole 30	30"	36.623"	-3"	0"
Invert 3	881.43'	90°	68"	120" x 7" Horiz Slot	120" x 7"	Horiz Slot 120"x7"	120" x 7"	120"	38.625"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

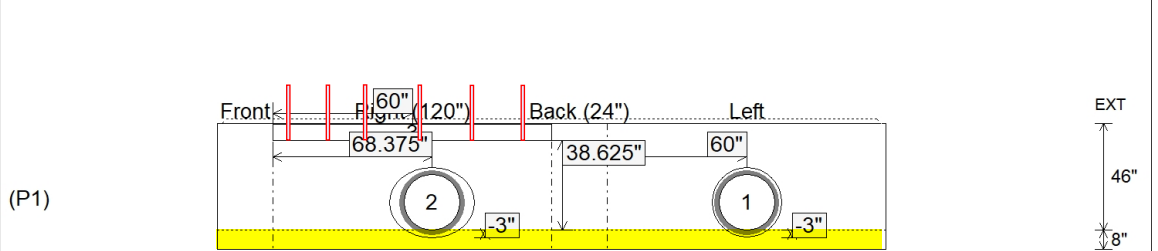
UPSIDE-DOWN VIEW (int. dimenions)



1st POUR (FLOOR) = 3,650 LBS
 2nd POUR (WALLS) = 8,407 LBS



INSIDE WALL DIMENSIONS



1st POUR (FLOOR)
 STUB #5 L BARS OUT TOP
 OF FLOOR FOR
 CONNECTING WALLS

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 46" Height (Ext): 54"	Weight (Net): 12057 lb Volume (Net): 3.08cu.yd
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 11/11/2025 4:05:02 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: CBI-402

P1A BX24120-08BVF

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

- P2) 24" x 120" - CB INLET KY A 10' TOP SAG F/G - 10"
- P1) 24" x 120" - BOX BASE 8inW, 8inF, Variable Ht T/n - 46"
- 1) CASTING - HOE KY-206 F/C (KY TY1)
- 1) 24" x 120" - Conseal CS-102 1.00"
- 2) Hole - 30
- 1) Horiz Slot n/n - 120"x7"

3398 lb
 12057 lb
 206 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 15661 lb

- Structure Notes:**
1. PER KYTC CBI TYPE A / ASTM C913 SPEC'S.
 2. CONCRETE = 4,000 PI AT 28 DAYS.
 3. NO INVERT CHANNEL
 4. CASTING BY ICAST (HOE KY-206 F/C)CAST INTO TOP SLAB.
 5. KYTC CBI TYPE A STYLE NOTCH (120"x8") AT 90°. STUB #5 BARS 20" OUT TOP OF NOTCH. SPA. AT 12" C/C.

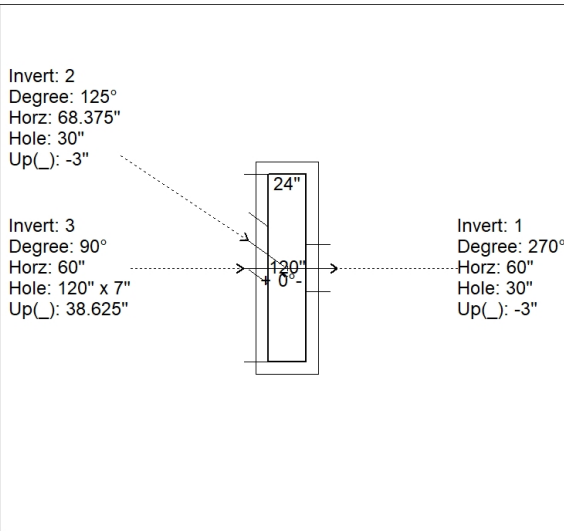
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
 WALLS (HORIZ.)= #5 BARS AT 12" C/C.
 WALLS (VERT.) = #5 BARS AT 6" C/C.
 FLOOR = #5 BARS AT 6" C/C EA. WAY

Rim: 882.93' Rim to Invert: 4.72' Slack: 0.64" Sump: 0" Step Position:

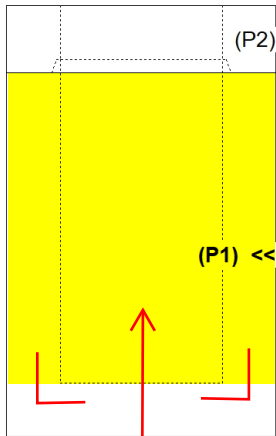
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	878.21'	270°	68"	24" HDPE	27.8"	Hole 30	30"	30"	-3"	0"
Invert 2	878.21'	125°	82"	24" HDPE	27.8"	Hole 30	30"	36.623"	-3"	0"
Invert 3	881.43'	90°	68"	120" x 7" Horiz Slot	120" x 7"	Horiz Slot 120"x7"	120" x 7"	120"	38.625"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)

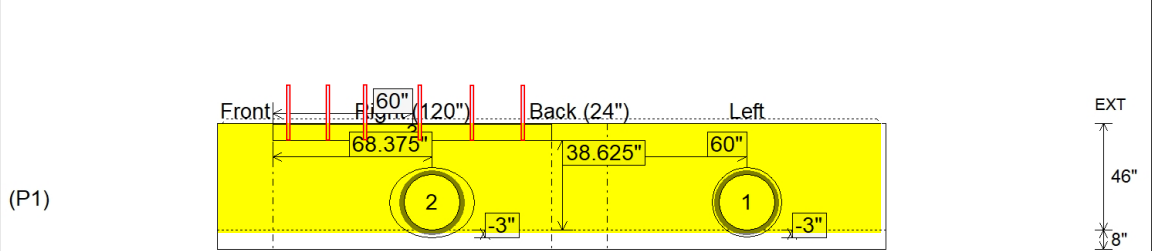


1st POUR (FLOOR) = 3,650 LBS
 2nd POUR (WALLS) = 8,407 LBS



2nd POUR (WALLS)

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 8"
 Floor Height: 8"

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

Weight (Net): 12057 lb
 Volume (Net): 3.08cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 6:24:05 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: CBI-403

P1 BX24120-08BVF

BOX BASE 8inW, 8inF T/n

- P2) 24" x 120" - CB INLET KY A 10' TOP RIGHT F/G - 10"
- P1) 24" x 120" - BOX BASE 8inW, 8inF T/n - 48"
- 1) CASTING - HOE KY-206 F/C (KY TY1)
- 1) 24" x 120" - Conseal CS-102 1.00"
- 1) Hole - 30
- 1) Hole - 24
- 1) Horiz Slot n/n - 120"x8"

3398 lb
 12402 lb
 206 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 16006 lb

- Structure Notes:**
1. PER KYTC CBI TYPE A / ASTM C913 SPEC'S.
 2. CONCRETE = 4,000 PI AT 28 DAYS.
 3. NO INVERT CHANNEL
 4. CASTING BY ICAST (HOE KY-206 F/C)CAST INTO TOP SLAB.
 5. KYTC CBI TYPE A STYLE NOTCH (120"x8") AT 270°. STUB #5 BARS 20" OUT TOP OF NOTCH. SPA. AT 12" C/C.

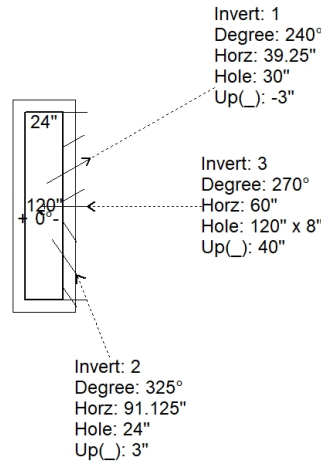
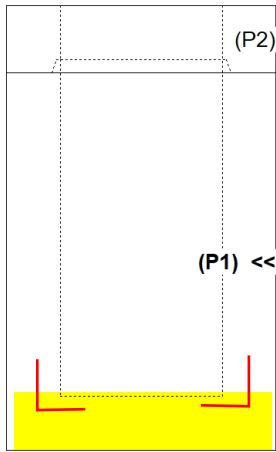
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
 WALLS (HORIZ.)= #5 BARS AT 12" C/C.
 WALLS (VERT.)= #5 BARS AT 6" C/C.
 FLOOR = #5 BARS AT 6" C/C EA. WAY

Rim: 883.93' Rim to Invert: 4.84' Slack: 0.08" Sump: 0" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	879.09'	240°	42.625"	24" HDPE	27.8"	Hole 30	30"	34.641"	-3"	-12"
Invert 2	879.59'	325°	110.5"	18" HDPE	21.2"	Hole 24	24"	41.843"	3"	8"
Invert 3	882.42'	270°	68"	120" x 8" Horiz Slot	120" x 8"	Horiz Slot 120"x8"	120" x 8"	120"	40"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

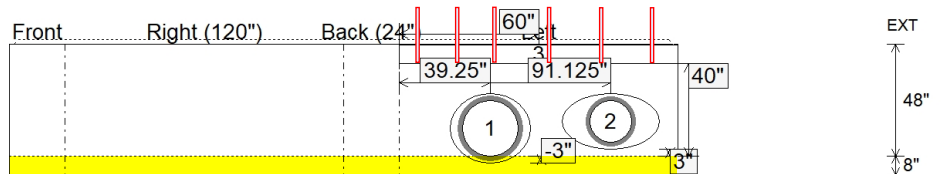
UPSIDE-DOWN VIEW (int. dimenions)



1st POUR (FLOOR) = 3,650 LBS
2nd POUR (WALLS) = 8,754 LBS

1st POUR (FLOOR)
STUB #5 L BARS OUT TOP
OF FLOOR FOR
CONNECTING WALLS

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 8"
 Floor Height: 8"

Height (Int): 48"
 Height (Ext): 56"

Weight (Net): 12402 lb
 Volume (Net): 3.17cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
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Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 6:24:05 PM

PC: T. Ryan



Structure ID: CBI-403

P1A BX24120-08BVF

BOX BASE 8inW, 8inF T/n

- P2) 24" x 120" - CB INLET KY A 10' TOP RIGHT F/G - 10"
- P1) 24" x 120" - BOX BASE 8inW, 8inF T/n - 48"
- 1) CASTING - HOE KY-206 F/C (KY TY1)
- 1) 24" x 120" - Conseal CS-102 1.00"
- 1) Hole - 30
- 1) Hole - 24
- 1) Horiz Slot n/n - 120"x8"

3398 lb
 12402 lb
 206 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 16006 lb

- Structure Notes:**
1. PER KYTC CBI TYPE A / ASTM C913 SPEC'S.
 2. CONCRETE = 4,000 PI AT 28 DAYS.
 3. NO INVERT CHANNEL
 4. CASTING BY ICAST (HOE KY-206 F/C)CAST INTO TOP SLAB.
 5. KYTC CBI TYPE A STYLE NOTCH (120"x8") AT 270°. STUB #5 BARS 20" OUT TOP OF NOTCH. SPA. AT 12" C/C.

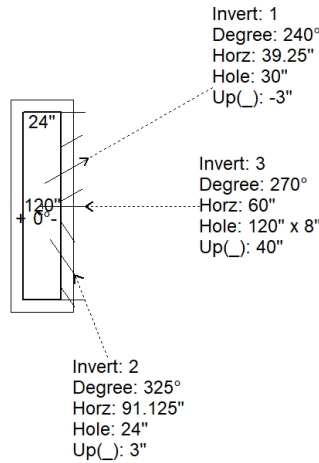
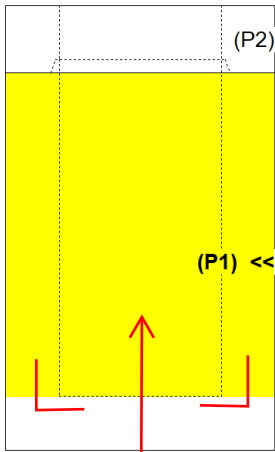
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
 WALLS (HORIZ.)= #5 BARS AT 12" C/C.
 WALLS (VERT.)= #5 BARS AT 6" C/C.
 FLOOR = #5 BARS AT 6" C/C EA. WAY

Rim: 883.93' Rim to Invert: 4.84' Slack: 0.08" Sump: 0" Step Position:

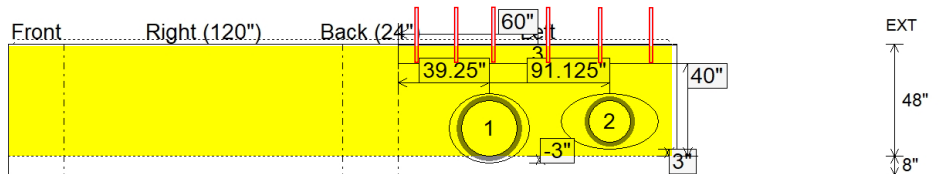
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	879.09'	240°	42.625"	24" HDPE	27.8"	Hole 30	30"	34.641"	-3"	-12"
Invert 2	879.59'	325°	110.5"	18" HDPE	21.2"	Hole 24	24"	41.843"	3"	8"
Invert 3	882.42'	270°	68"	120" x 8" Horiz Slot	120" x 8"	Horiz Slot 120"x8"	120" x 8"	120"	40"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



2nd POUR (WALLS)

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 48" Height (Ext): 56"	Weight (Net): 12402 lb Volume (Net): 3.17cu.yd
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Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:03 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: CBI-404

P1 BX2436-08BVF

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

- P4) 24" x 120" - CB INLET KY A 10' TOP LEFT F/G - 10"
- P3) 24" x 120" - CB INLET KY A 10' BOTTOM LEFT T/G - 18"
- P2) 24" x 36" - FIELD ADJUSTMENT - 1"
- P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 25"
- 1) CASTING - HOE KY-206 F/C (KY TY1)
- 2) 24" x 36" - Conseal CS-102 1.00"
- 2) Hole - 24"

3400 lb
 5270 lb
 0 lb
 3492 lb
 206 lb
 0 lb
 0 lb

 Structure Total: 12367 lb

Structure Notes:
 ** KYTC STATE PROJECT **
 1. PER KYTC CBI TYPE A / ASTM C913 SPEC'S.
 2. CONCRETE = 4,000 PI AT 28 DAYS.
 3. NO INVERT CHANNEL.

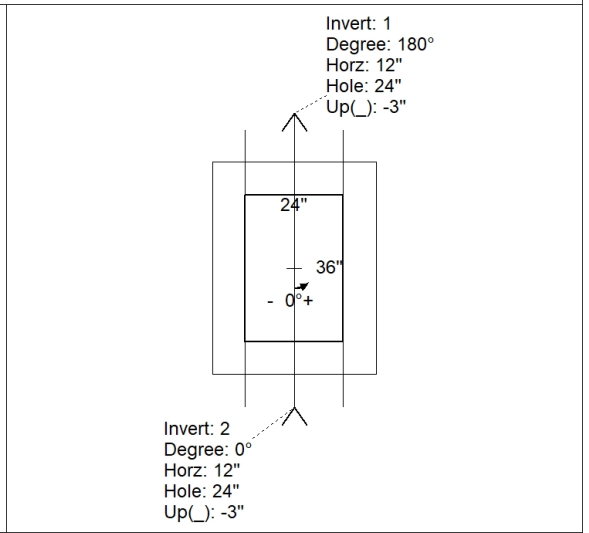
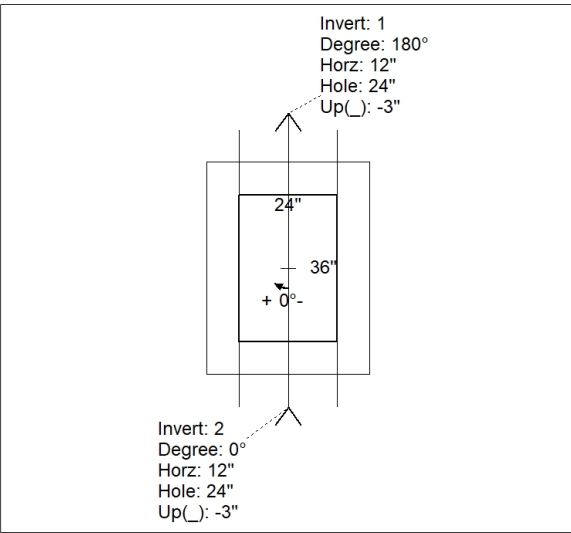
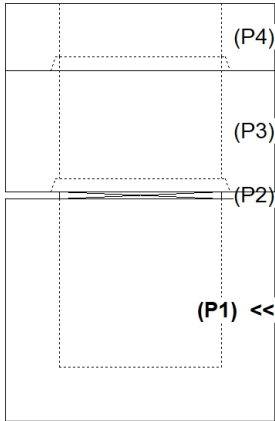
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 885.21' Rim to Invert: 4.54' Slack: 0.48" Sump: 0" Step Position:

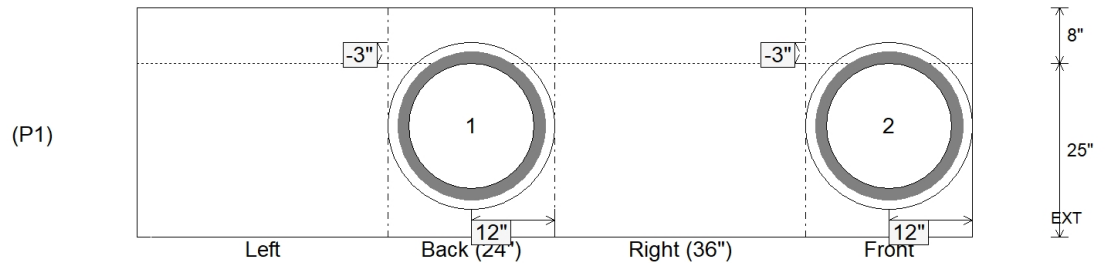
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	880.67'	180°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-3"	0"
Invert 2	880.67'	0°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-3"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: n/a

Wall Thickness: 8"
 Floor Height: 8"

Height (Int): 25"
 Height (Ext): 33"

Weight (Net): 3492 lb
 Volume (Net): 0.89cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 4:05:04 PM

PC: T. Ryan



Structure ID: CBI-405

P1 BX2436-08BVF

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

- P3) 24" x 120" - CB INLET KY A 10' TOP LEFT F/G - 10"
- P2) 24" x 120" - CB INLET KY A 10' BOTTOM LEFT T/G - 18"
- P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht T/n - 34"
- 1) CASTING - HOE KY-206 F/C (KY TY1)
- 1) 24" x 36" - Conseal CS-102 1.00"
- 1) Hole - 24
- 1) Hole - 20
- 1) DOGHOUSE INVRTD - 20"x20"

3400 lb
 5270 lb
 4112 lb
 206 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb

Structure Total: 12988 lb

Structure Notes:

- ** KYTC STATE PROJECT **
- 1. PER KYTC CBI TYPE A / ASTM C913 SPEC'S.
- 2. CONCRETE = 4,000 PI AT 28 DAYS.
- 3. NO INVERT CHANNEL.

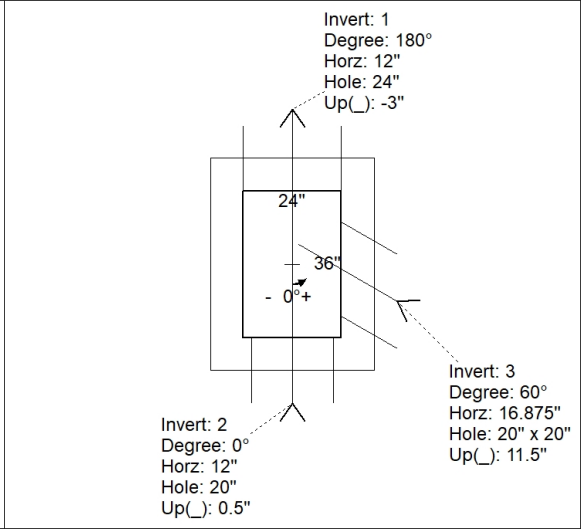
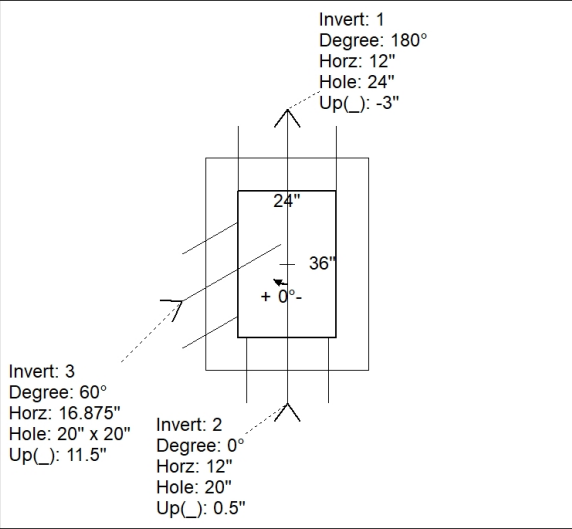
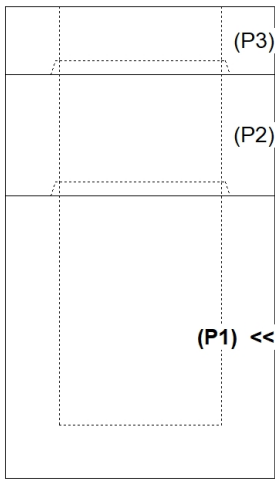
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 890.99' Rim to Invert: 5.2' Slack: 0.4" Sump: 0" Step Position:

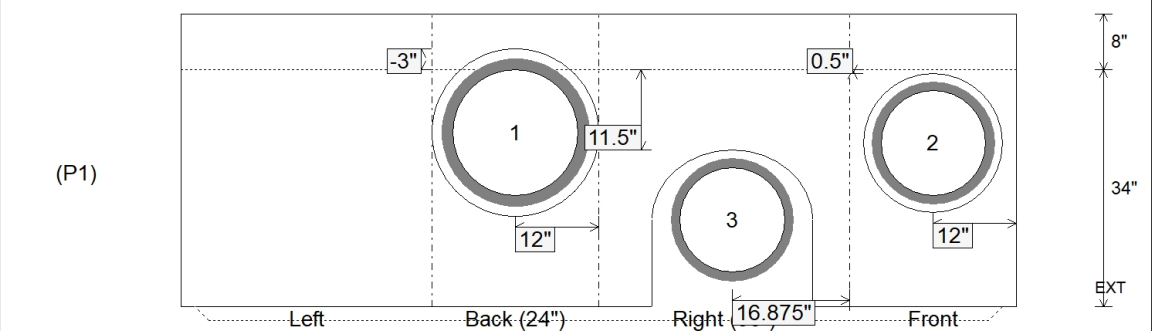
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	885.79'	180°	20"	18" HDPE	21.2"	Hole 24	24"	24"	-3"	0"
Invert 2	886.04'	0°	20"	15" HDPE	17.6"	Hole 20	20"	20"	0.5"	0"
Invert 3	886.96'	60°	20.25"	15" HDPE	17.6"	DOGHOUSE INVRTD 20"x20"	20" x 20"	23.094"	11.5"	5"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 8" Floor Height: 8"	Height (Int): 34" Height (Ext): 42"	Weight (Net): 4112 lb Volume (Net): 1.05cu.yd
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Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 4:05:04 PM

PC: T. Ryan



Structure ID: CBI-406

P1 BX2436-08BVF

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

- P4) 24" x 120" - CB INLET KY A 10' TOP LEFT F/G - 10"
- P3) 24" x 120" - CB INLET KY A 10' BOTTOM LEFT T/G - 18"
- P2) 24" x 36" - FIELD ADJUSTMENT - 3"
- P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 23"
- 1) CASTING - HOE KY-206 F/C (KY TY1)
- 2) 24" x 36" - Conseal CS-102 1.00"
- 1) Hole - 20

3400 lb
 5270 lb
 0 lb
 3532 lb
 206 lb
 0 lb
 0 lb

 Structure Total: 12408 lb

Structure Notes:
 ** KYTC STATE PROJECT **
 1. PER KYTC CBI TYPE A / ASTM C913 SPEC'S.
 2. CONCRETE = 4,000 PI AT 28 DAYS.
 3. NO INVERT CHANNEL.

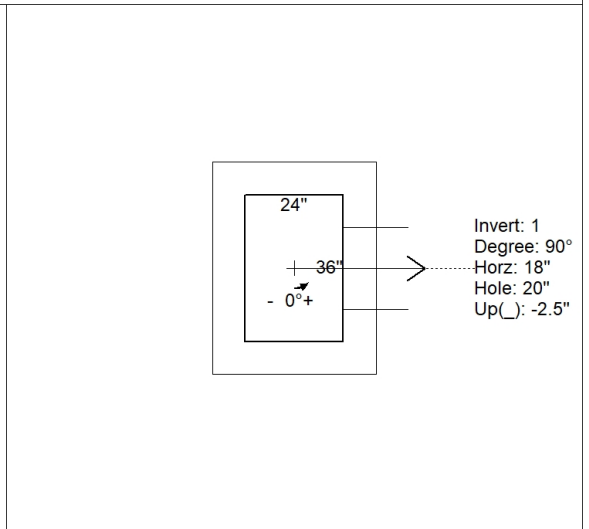
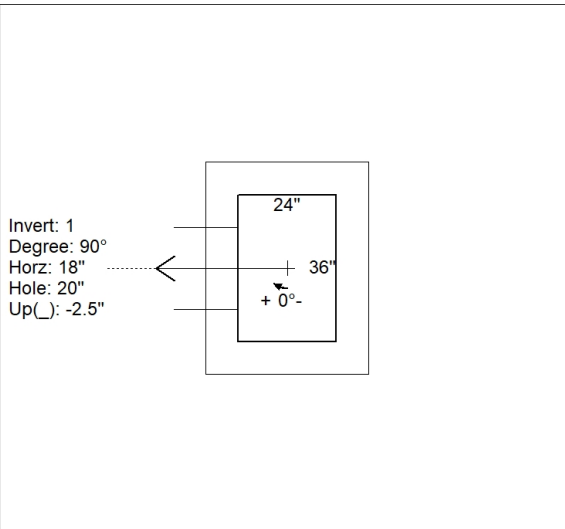
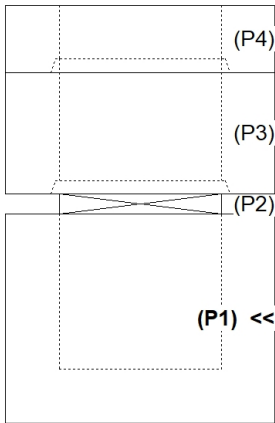
REINFORCING PER ASTM A615 (GRADE 60).
 - TOP PHASE (As .62) #5 BARS AT 6" C.C.E.W.
 - WALLS (As .31) #5 BARS AT 12" C.C.E.W.
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 892.14' Rim to Invert: 4.51' Slack: 0.12" Sump: 0" Step Position:

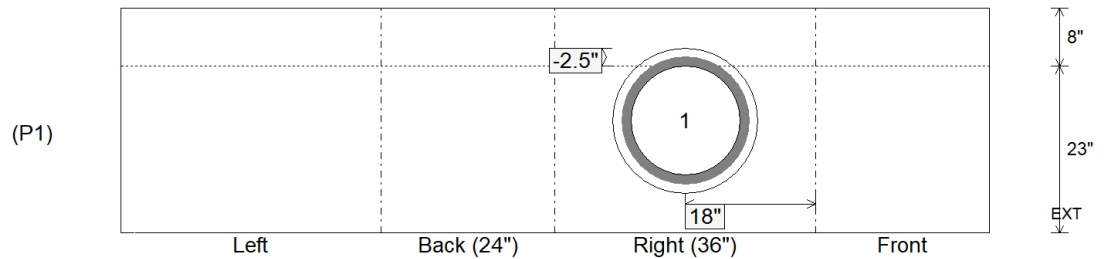
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	887.63'	90°	26"	15" HDPE	17.6"	Hole 20	20"	20"	-2.5"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: n/a

Wall Thickness: 8"
 Floor Height: 8"

Height (Int): 23"
 Height (Ext): 31"

Weight (Net): 3532 lb
 Volume (Net): 0.9cu.yd

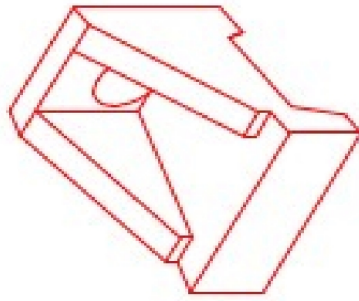


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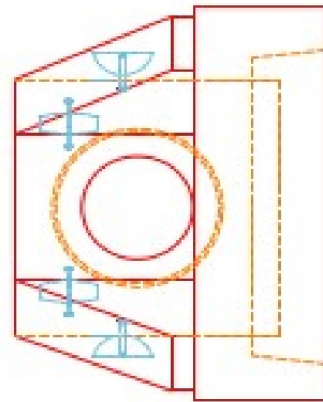
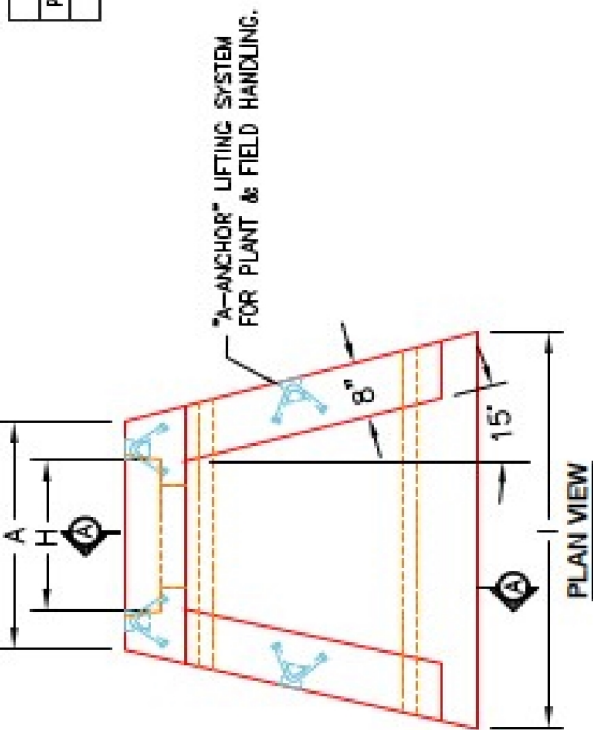
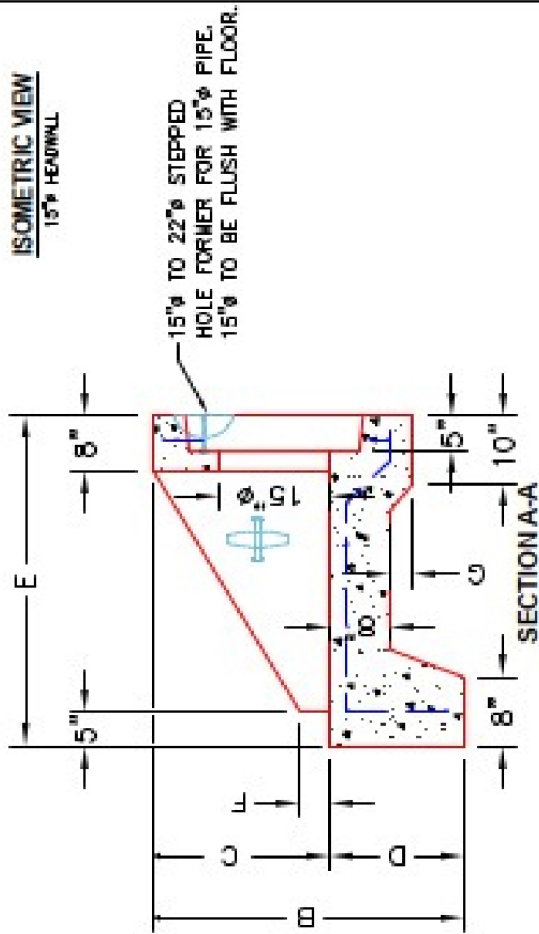
P1 HWSF15

15" - SLOPED & FLARED HEADWALL F/F

DIMENSIONS										
PPE Ø	A	B	C	D	E	F	G	H	I	WEIGHT
15"	2'-0"	3'-0"	2'-0"	1'-0"	4'-0"	3"	2"	2'-0"	4'-0"	3,161 LBS.



ISOMETRIC VIEW
15" HEADWALL



FRONT ELEVATION

- NOTES:**
1. CONCRETE: 4500 PSI @ 28 DAYS.
 2. REINFORCING: #4 BAR @ 12" C/C E.W.-GRADE @0, (WITH 2" CONCRETE COVER MINIMUM)
 3. REINFORCING BARS TO BE TACK WELDED OR TIED.
 4. DRAWING TO BE USED IN CONJUNCTION WITH KYTC STD. DRAWING FH01-020-03 AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 5. CHAMFER ON ALL EXPOSED EDGES.

PRODUCTION WORK ORDER		PRODUCT I.D.: HWSF15		DESCRIPTION: KYTC 15" SLOPED & FLARED HEADWALL	
QUALITY CONTROL CHECKLIST		PRODUCT VIEW: RIGHT SIDE UP		CUSTOMER: STOCK	
<input type="checkbox"/> ALL DIMENSIONS CORRECT.		PLANT: BEAVER DAM, KY.		PROJECT: STOCK INVENTORY	
<input type="checkbox"/> LIFTS INSTALLED.		WEIGHT: 3,161 LBS.		STRUCTURE ID: N/A	
<input type="checkbox"/> STEPPED HF CORRECT SIZE.		TOP SECTION JOINT: N/A		QUOTE/SALES ORDER NO: N/A	
<input type="checkbox"/> REINFORCING CORRECT.		BASE SECTION JOINT: N/A		CHECK: J.H. ROSS, PE	
<input type="checkbox"/> DISSIPATOR BLOCK INSTALLED		QC CHECK INITIALS:		DRAWING: N. RICHARDS	
<input type="checkbox"/> EDGES CHAMFERED.				DATE: 09/15/22	
<input type="checkbox"/> ALL PATCHWORK ACCEPTABLE.				SCALE: NTS	
				PG. 1 of 1	



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Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 4:05:05 PM

PC: T. Ryan



Structure ID: MH A-9

P1 MH048BA42X

MH BASE w/XYPEX T/n

P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"	2251 lb
P2) 48" - MH RISER w/XYPEX T/G - 24"	1677 lb
P1) 48" - MH BASE w/XYPEX T/n - 42"	4121 lb
1) 48" - SAN. INV. 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) ADMIXTURE XYPEX C-500 NF RED	0 lb
1) CASTING - HOE MC-350 F/C Sanitary	305 lb
2) 48" - DBL 1"x14.5' Butyl (2x)	0 lb
3) PSX - 12-08 NYLO	24 lb
8) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	9817 lb

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

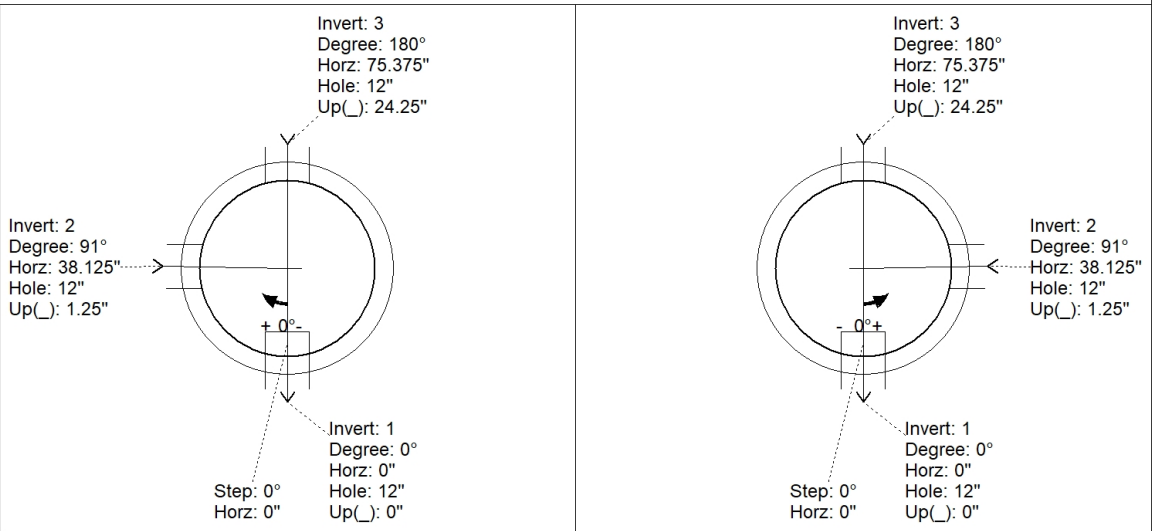
REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 885.19' Rim to Invert: 9.09' Slack: 2.08" Sump: 2" Step Position: 0°

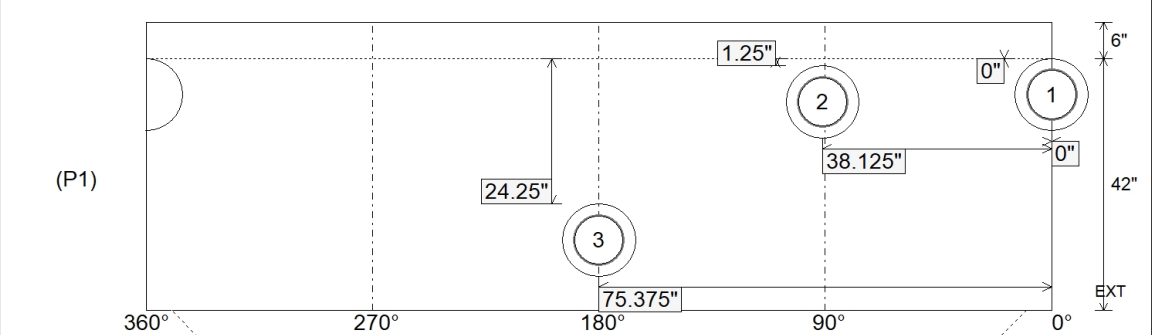
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	876.1'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	876.2'	91°	46"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3	878.12'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	24.25"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 42" Height (Ext): 48"	Weight (Net): 4121 lb Volume (Net): 1.05cu.yd
----------------------------------	---------------------------------	--	--	--

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:05 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH A-9

P1A MH048BA42X

MH BASE w/XYPEX T/n

P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"	2251 lb
P2) 48" - MH RISER w/XYPEX T/G - 24"	1677 lb
P1) 48" - MH BASE w/XYPEX T/n - 42"	4121 lb
1) 48" - SAN. INV. 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) ADMIXTURE XYPEX C-500 NF RED	0 lb
1) CASTING - HOE MC-350 F/C Sanitary	305 lb
2) 48" - DBL 1"x14.5' Butyl (2x)	0 lb
3) PSX - 12-08 NYLO	24 lb
8) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	9817 lb

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

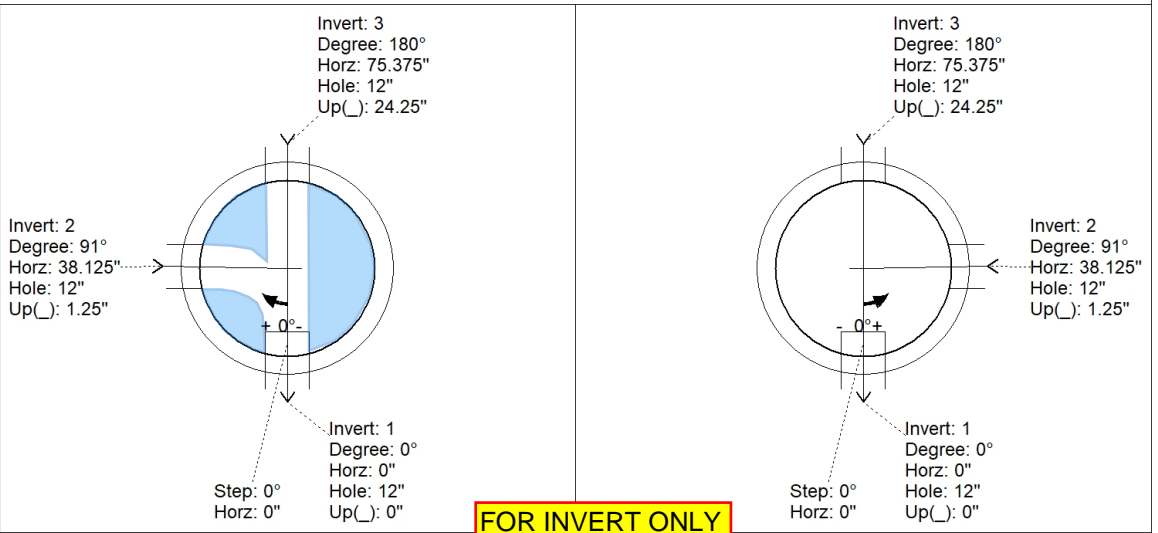
REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 885.19' Rim to Invert: 9.09' Slack: 2.08" Sump: 2" Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	876.1'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	876.2'	91°	46"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3	878.12'	180°	91.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	24.25"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

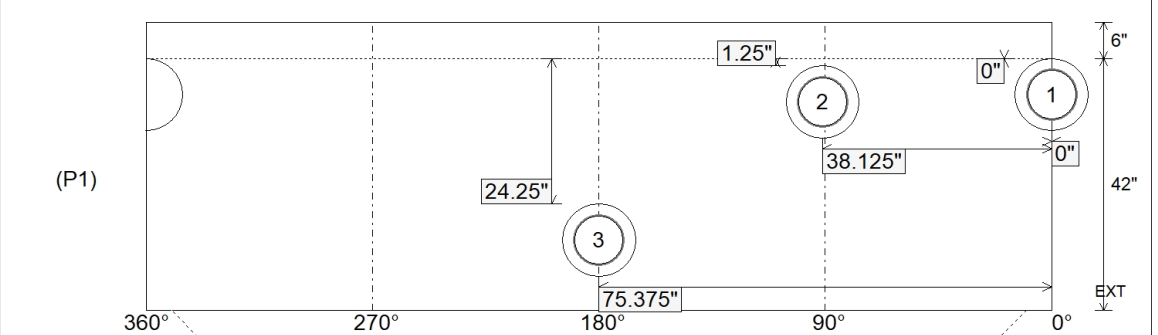
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



FOR INVERT ONLY

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 42" Height (Ext): 48"	Weight (Net): 4121 lb Volume (Net): 1.05cu.yd
----------------------------------	---------------------------------	--	--	--

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:24 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH A-9

P2 MH048RS24X

MH RISER w/XYPEX T/G

P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"	2251 lb
P2) 48" - MH RISER w/XYPEX T/G - 24"	1677 lb
P1) 48" - MH BASE w/XYPEX T/n - 42"	4121 lb
1) 48" - SAN. INV. 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) ADMIXTURE XYPEX C-500 NF RED	0 lb
1) CASTING - HOE MC-350 F/C Sanitary	305 lb
2) 48" - DBL 1"x14.5' Butyl (2x)	0 lb
3) PSX - 12-08 NYLO	24 lb
8) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	9817 lb

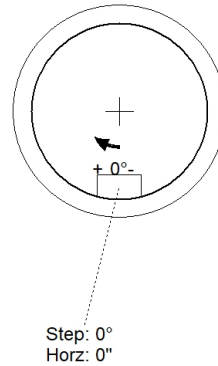
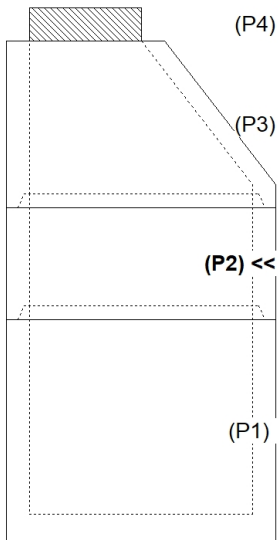
Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. CASTING SHIPPED LOOSE (HOE MC-350 F/C).
 4. SWEEP INVERT

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

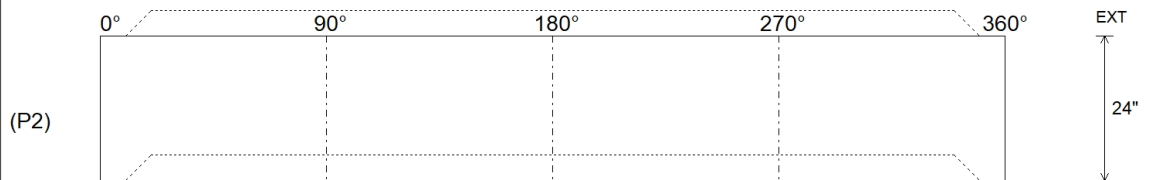
Rim: 885.19' Rim to Invert: 9.09' Slack: 2.08" Sump: 2" Step Position: 0°

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

RIGHT-SIDE UP VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 5" Floor Height: 0"	Height (Int): 24" Height (Ext): 24"	Weight (Net): 1677 lb Volume (Net): 0.43cu.yd
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Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:06:33 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH A-9

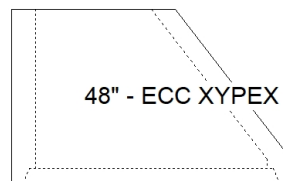
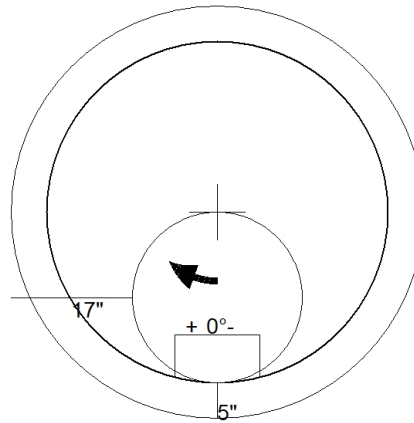
P3 MH048CN36X

ECC XYPEX CONE w/ 24" HOLE F/G

P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"	2251 lb
P2) 48" - MH RISER w/XYPEX T/G - 24"	1677 lb
P1) 48" - MH BASE w/XYPEX T/n - 42"	4121 lb
1) 48" - SAN. INV. 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) ADMIXTURE XYPEX C-500 NF RED	0 lb
1) CASTING - HOE MC-350 F/C Sanitary	305 lb
2) 48" - DBL 1"x14.5' Butyl (2x)	0 lb
3) PSX - 12-08 NYLO	24 lb
8) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	9817 lb

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

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



48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36" - (P3)

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 36"	Weight (Net): 2251 lb Volume (Net): 0.57cu.yd
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Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:06 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH A-10

P1 MH048BA30X

MH BASE w/XYPEX T/n

P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 24" - XYPEX GRADE RING F/F - 3"	202 lb
P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"	2251 lb
P1) 48" - MH BASE w/XYPEX T/n - 30"	3330 lb
1) 48" - SAN. INV. 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) ADMIXTURE XYPEX C-500 NF RED	0 lb
1) CASTING - HOE MC-350 F/C Sanitary	305 lb
1) 48" - DBL 1"x14.5' Butyl (2x)	0 lb
2) PSX - 12-08 NYLO	16 lb
5) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	7545 lb

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

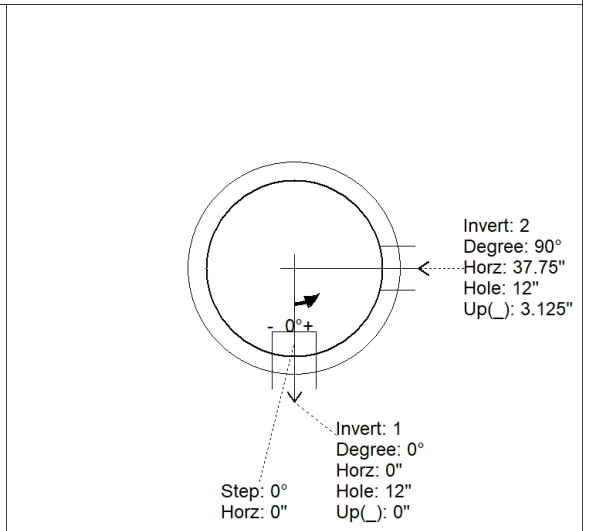
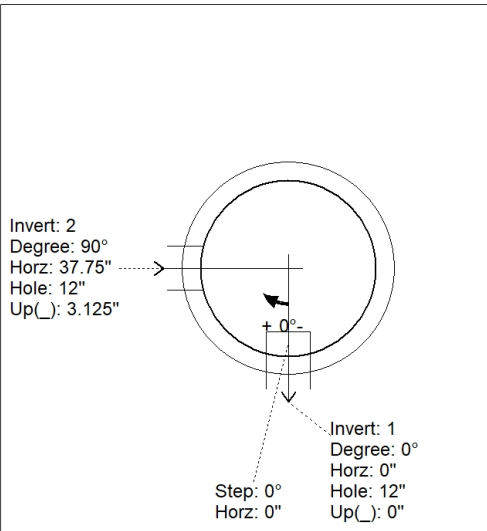
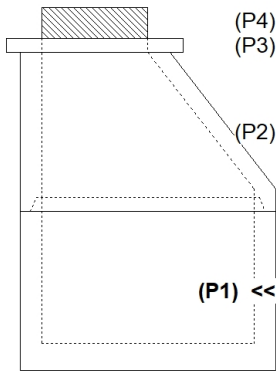
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 888.45' Rim to Invert: 6.19' Slack: 0.28" Sump: 2" Step Position: 0°

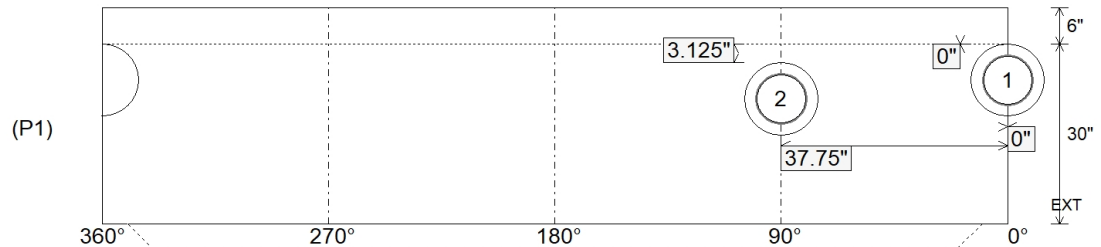
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	882.26'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	882.52'	90°	45.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	3.125"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:06 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH A-10

P1A MH048BA30X

MH BASE w/XYPEX T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 3"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE w/XYPEX T/n - 30"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 202 lb
 2251 lb
 3330 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 7545 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

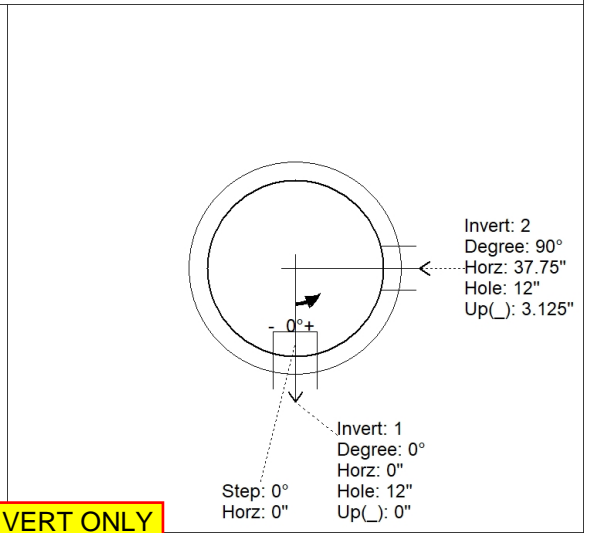
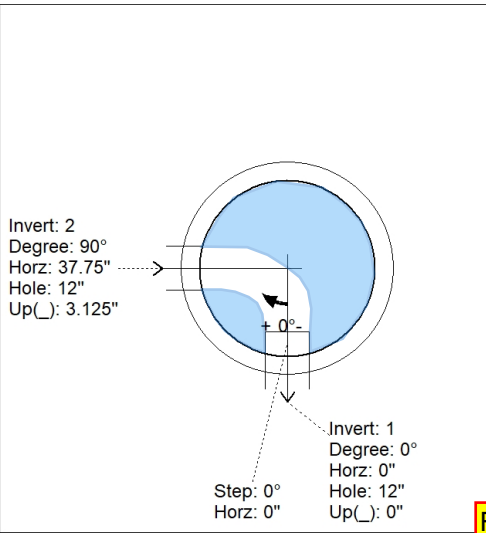
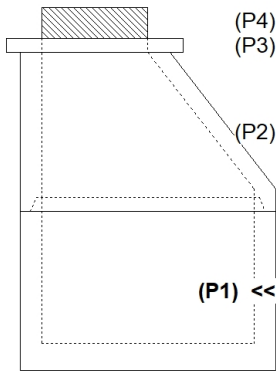
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 888.45' Rim to Invert: 6.19' Slack: 0.28" Sump: 2" Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	882.26'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	882.52'	90°	45.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	3.125"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

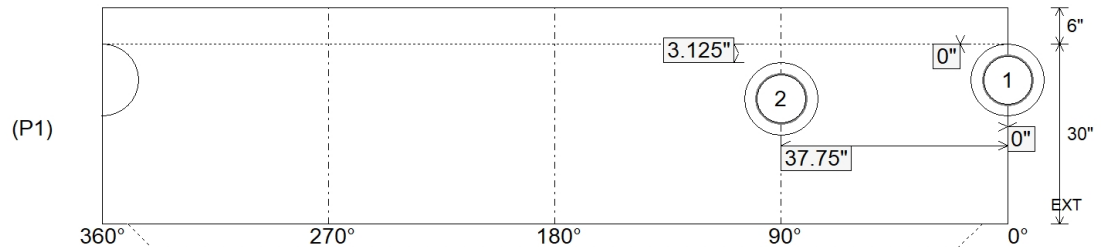
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



FOR INVERT ONLY

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:06:33 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH A-10

P2 MH048CN36X

ECC XYPEX CONE w/ 24" HOLE F/G

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 3"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE w/XYPEX T/n - 30"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 202 lb
 2251 lb
 3330 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

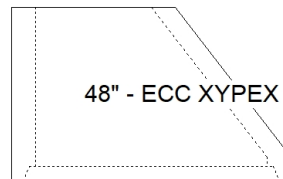
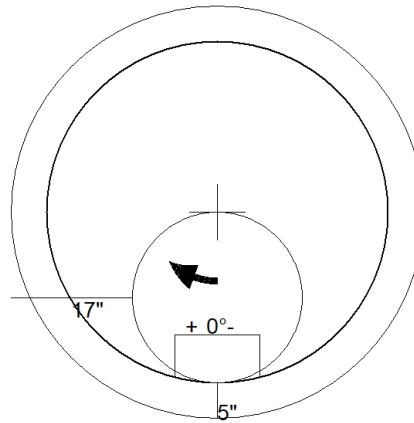
Structure Total: 7545 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

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



48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36" - (P2)

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 36"

Weight (Net): 2251 lb
 Volume (Net): 0.57cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 4:05:06 PM

PC: T. Ryan



Structure ID: MH A-11

P1 MH048BA24X

MH BASE w/XYPEX T/n

P3) 24" - CASTING HEIGHT - 7"	0 lb
P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 30"	1981 lb
P1) 48" - MH BASE w/XYPEX T/n - 24"	2959 lb
1) 48" - SAN. INV. 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) ADMIXTURE XYPEX C-500 NF RED	0 lb
1) CASTING - HOE MC-350 F/C Sanitary	305 lb
1) 48" - DBL 1"x14.5' Butyl (2x)	0 lb
1) PSX - 12-08 NYLO	8 lb
5) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	6693 lb

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

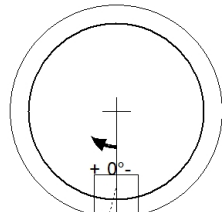
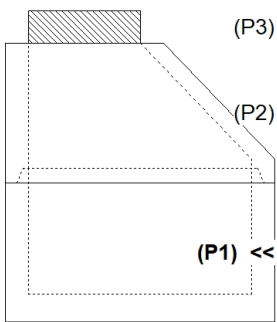
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 891.89' Rim to Invert: 4.97' Slack: 0.64" Sump: 2" Step Position: 0°

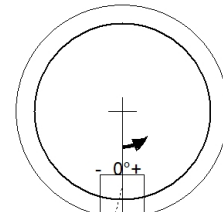
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	886.92'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

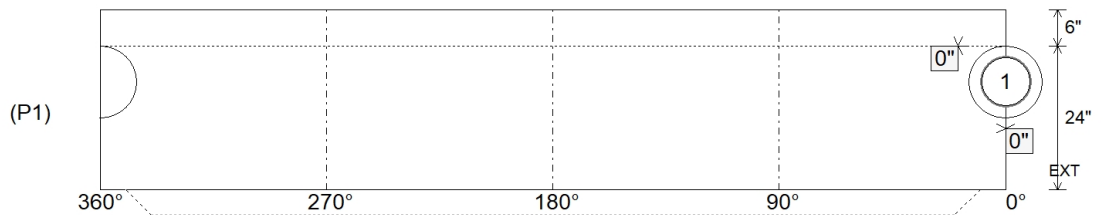


Invert: 1
 Degree: 0°
 Horz: 0"
 Hole: 12"
 Up(): 0"
 Step: 0°
 Horz: 0"



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

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

Weight (Net): 2959 lb
 Volume (Net): 0.76cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:06 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH A-11

P1A MH048BA24X

MH BASE w/XYPEX T/n

P3) 24" - CASTING HEIGHT - 7"	0 lb
P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 30"	1981 lb
P1) 48" - MH BASE w/XYPEX T/n - 24"	2959 lb
1) 48" - SAN. INV. 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) ADMIXTURE XYPEX C-500 NF RED	0 lb
1) CASTING - HOE MC-350 F/C Sanitary	305 lb
1) 48" - DBL 1"x14.5' Butyl (2x)	0 lb
1) PSX - 12-08 NYLO	8 lb
5) MH Step ML-10-TDS-NCR - 10"	0 lb
Structure Total:	6693 lb

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

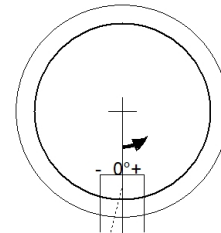
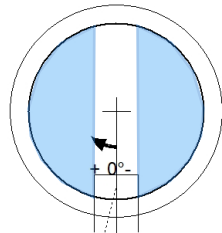
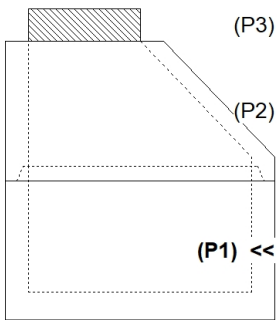
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 891.89' Rim to Invert: 4.97' Slack: 0.64" Sump: 2" Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	886.92'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

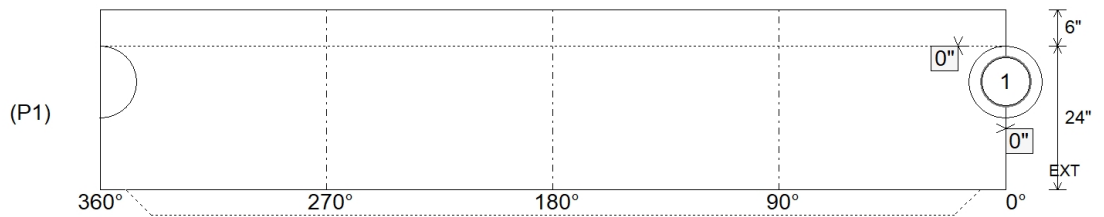
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



FOR INVERT ONLY

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

Weight (Net): 2959 lb
 Volume (Net): 0.76cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:06:34 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH A-11

P2 MH048CN30X

ECC XYPEX CONE w/ 24" HOLE F/G

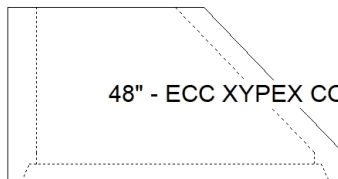
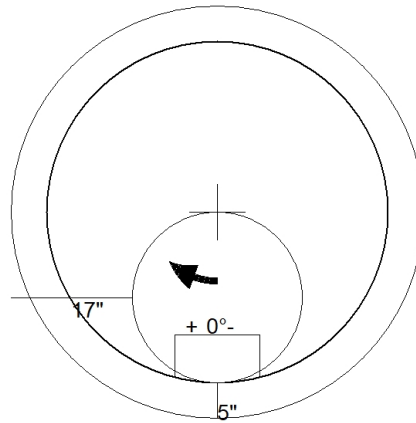
- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 30"
- P1) 48" - MH BASE w/XYPEX T/n - 24"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 1) PSX - 12-08 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 1981 lb
 2959 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 8 lb
 0 lb

 Structure Total: 6693 lb

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

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



48" - ECC XYPEX CONE w/ 24" HOLE F/G - 30" - (P2)

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 30"

Weight (Net): 1981 lb
 Volume (Net): 0.51cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:06 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH E-1

P1 MH048BA36X

MH BASE w/XYPEX T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 6"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 42"
- P1) 48" - MH BASE w/XYPEX T/n - 36"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 7) MH Step ML-10-TDS-NCR - 10"

0 lb
 405 lb
 3116 lb
 3749 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 9032 lb

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

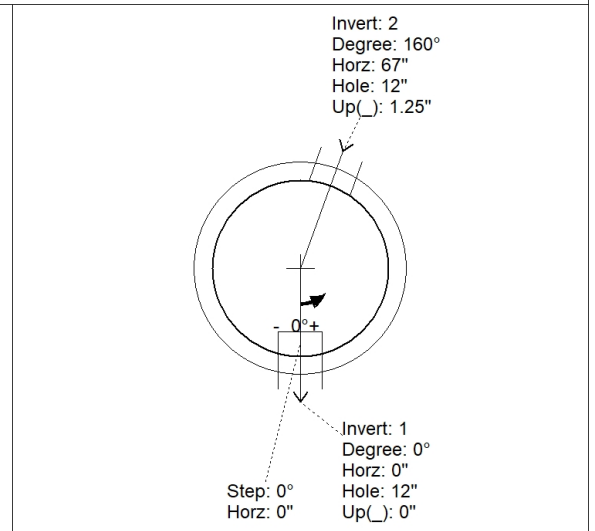
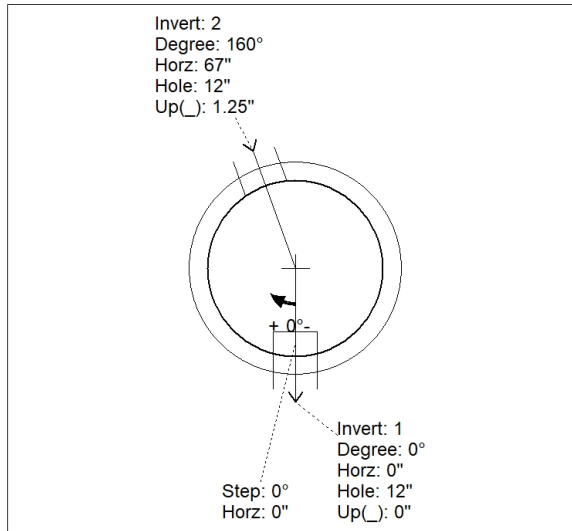
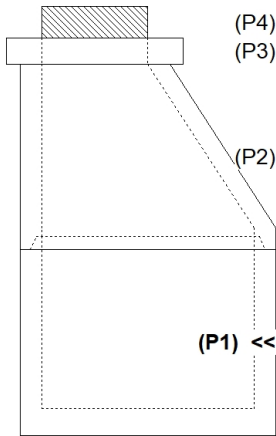
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE (As .12)
 - RISER/WALLS (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 884.3' Rim to Invert: 7.52' Slack: 1.24" Sump: 2" Step Position: 0°

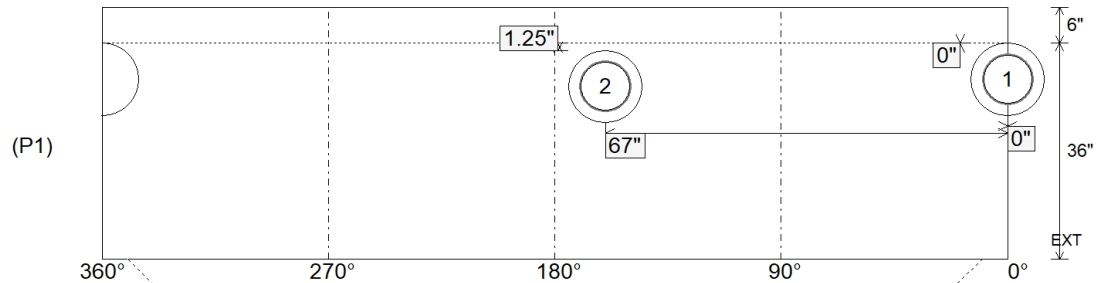
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	876.78'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	876.88'	160°	81"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 4:05:06 PM

PC: T. Ryan



Structure ID: MH E-1

P1A MH048BA36X

MH BASE w/XYPEX T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 6"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 42"
- P1) 48" - MH BASE w/XYPEX T/n - 36"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 7) MH Step ML-10-TDS-NCR - 10"

0 lb
 405 lb
 3116 lb
 3749 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 9032 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

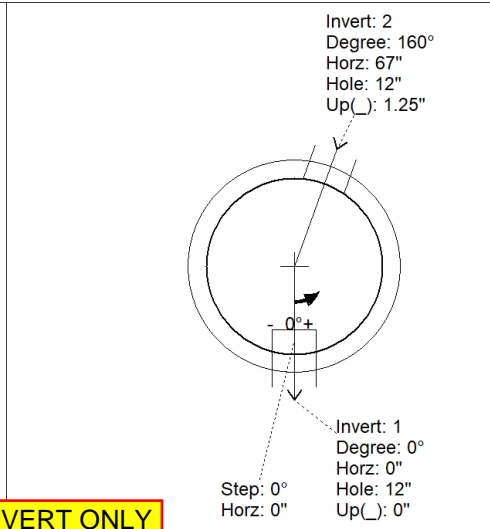
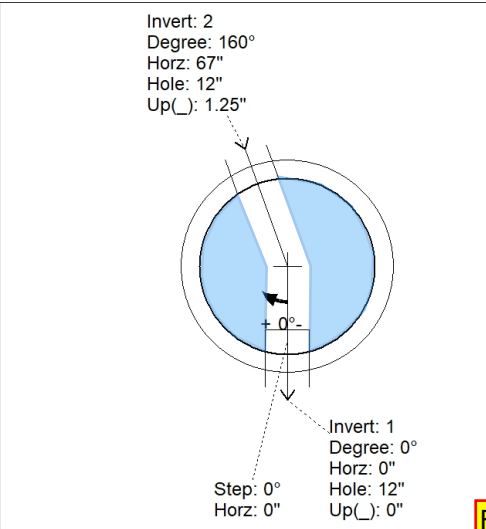
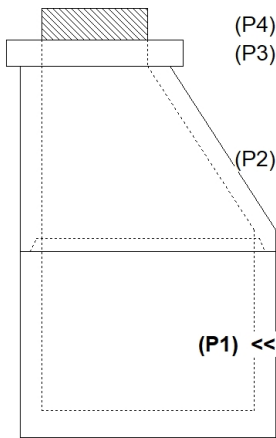
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 884.3' Rim to Invert: 7.52' Slack: 1.24" Sump: 2" Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	876.78'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	876.88'	160°	81"	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										

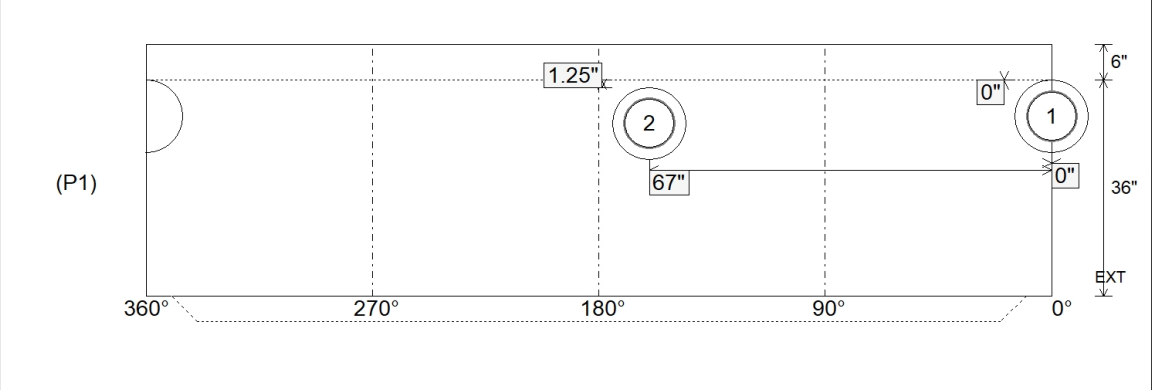
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



FOR INVERT ONLY

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:06:34 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH E-1

P2 MH048CN42X

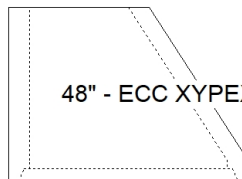
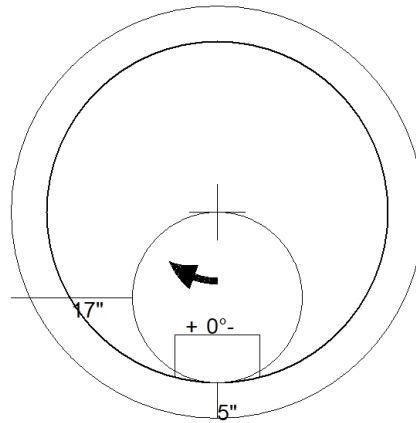
ECC XYPEX CONE w/ 24" HOLE F/G

P4) 24" - CASTING HEIGHT - 7"	0 lb
P3) 24" - XYPEX GRADE RING F/F - 6"	405 lb
P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 42"	3116 lb
P1) 48" - MH BASE w/XYPEX T/n - 36"	3749 lb
1) 48" - SAN. INV. 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) ADMIXTURE XYPEX C-500 NF RED	0 lb
1) CASTING - HOE MC-350 F/C Sanitary	305 lb
1) 48" - DBL 1"x14.5' Butyl (2x)	0 lb
2) PSX - 12-08 NYLO	16 lb
7) MH Step ML-10-TDS-NCR - 10"	0 lb

Structure Total:	9032 lb

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

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



48" - ECC XYPEX CONE w/ 24" HOLE F/G - 42" - (P2)

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 42"	Weight (Net): 3116 lb Volume (Net): 0.8cu.yd
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Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 4:05:06 PM

PC: T. Ryan



Structure ID: MH E-2

P1 MH048BA36X

MH BASE w/XYPEX T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 4"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 42"
- P1) 48" - MH BASE w/XYPEX T/n - 36"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 7) MH Step ML-10-TDS-NCR - 10"

- 0 lb
- 270 lb
- 3116 lb
- 3749 lb
- 1440 lb
- 0 lb
- 0 lb
- 0 lb
- 305 lb
- 0 lb
- 16 lb
- 0 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

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

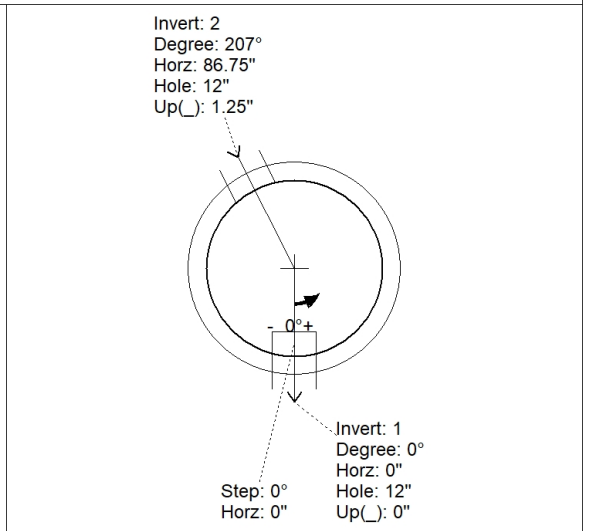
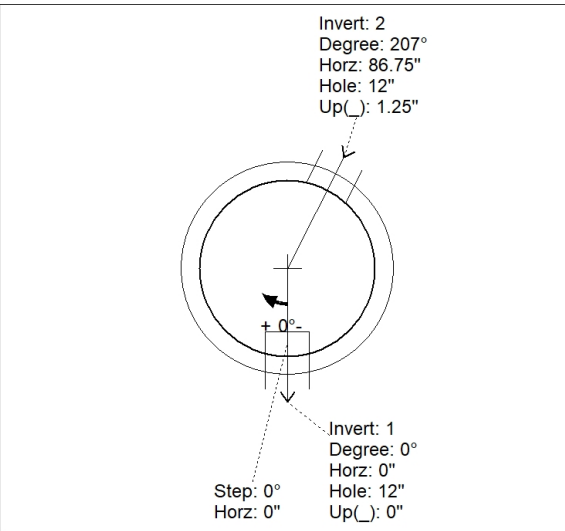
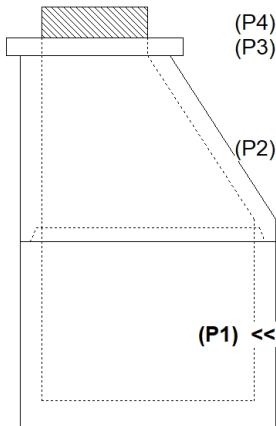
Structure Total: 8897 lb

Rim: 884.72' Rim to Invert: 7.26' Slack: 0.12" Sump: 2" Step Position: 0°

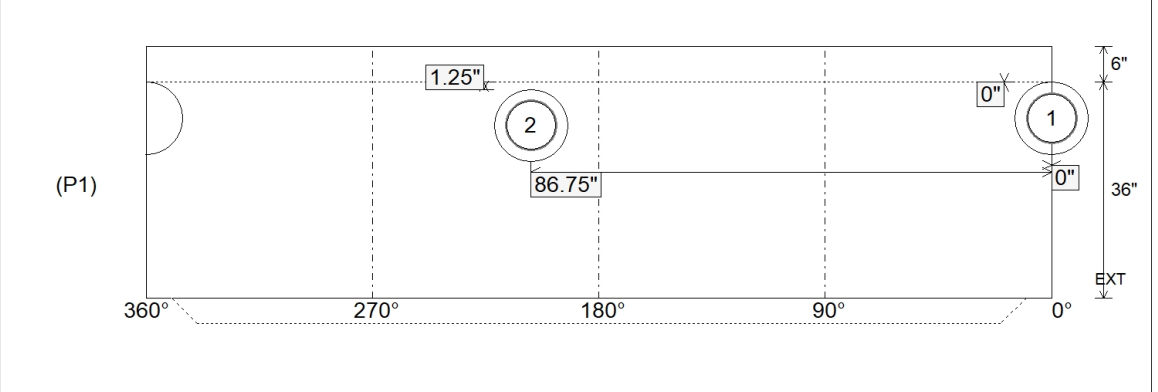
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	877.46'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	877.56'	207°	104.75"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 36" Height (Ext): 42"	Weight (Net): 3749 lb Volume (Net): 0.96cu.yd
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Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:06 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH E-2

P1A MH048BA36X

MH BASE w/XYPEX T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 4"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 42"
- P1) 48" - MH BASE w/XYPEX T/n - 36"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 7) MH Step ML-10-TDS-NCR - 10"

0 lb
 270 lb
 3116 lb
 3749 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 8897 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

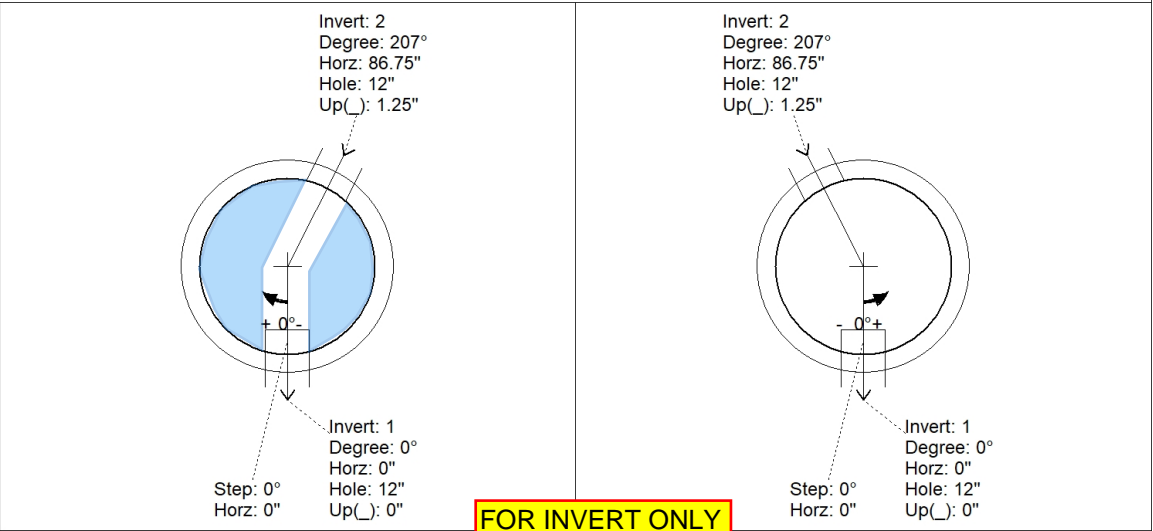
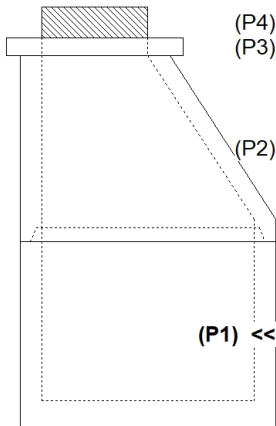
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 884.72' Rim to Invert: 7.26' Slack: 0.12" Sump: 2" Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	877.46'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	877.56'	207°	104.75"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

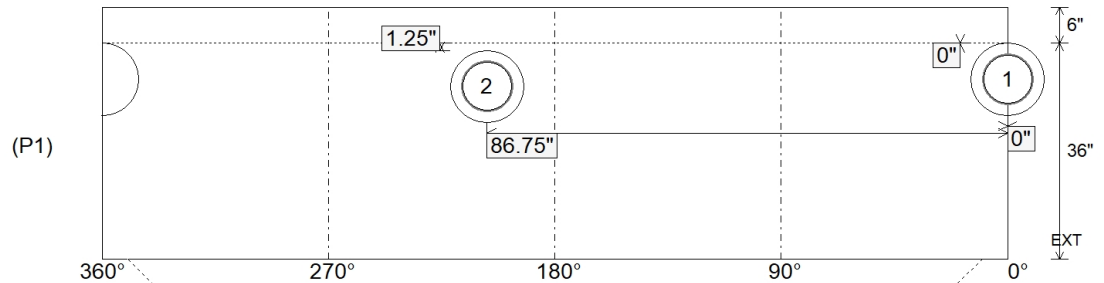
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



FOR INVERT ONLY

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:06:34 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH E-2

P2 MH048CN42X

ECC XYPEX CONE w/ 24" HOLE F/G

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 4"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 42"
- P1) 48" - MH BASE w/XYPEX T/n - 36"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 7) MH Step ML-10-TDS-NCR - 10"

0 lb
 270 lb
 3116 lb
 3749 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

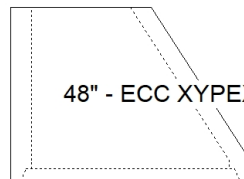
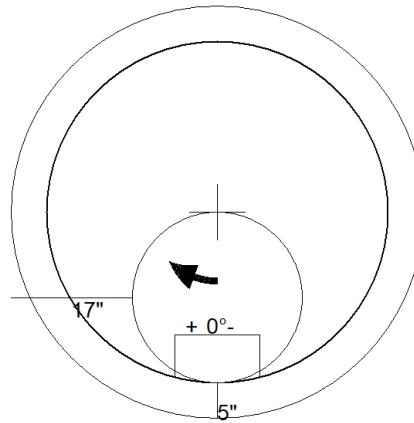
Structure Total: 8897 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

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



48" - ECC XYPEX CONE w/ 24" HOLE F/G - 42" - (P2)

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 42"

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

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:07 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH E-3

P1 MH048BA36X

MH BASE w/XYPEX T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 42"
- P1) 48" - MH BASE w/XYPEX T/n - 36"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 1) PSX - 12-08 NYLO
- 7) MH Step ML-10-TDS-NCR - 10"

0 lb
 3116 lb
 3797 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 8 lb
 0 lb

 Structure Total: 8667 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

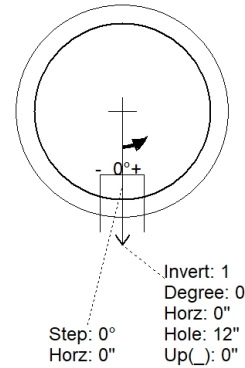
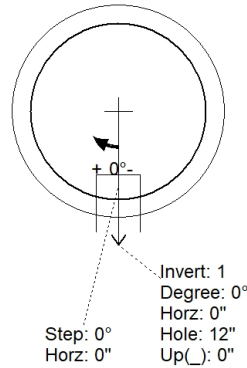
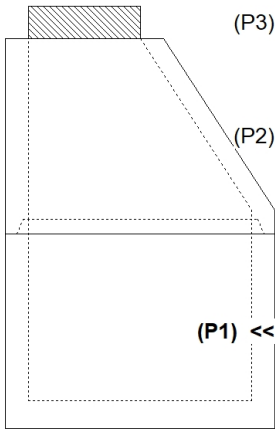
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 890.05' Rim to Invert: 7.15' Slack: 2.8" Sump: 2" Step Position: 0°

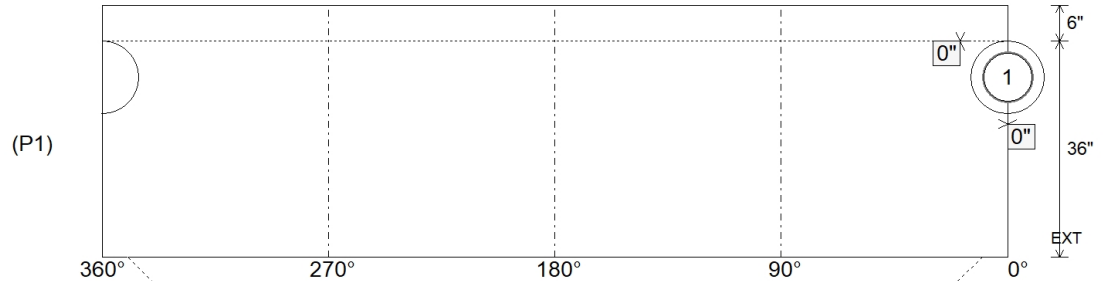
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	882.9'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. 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): 3797 lb
 Volume (Net): 0.97cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:07 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH E-3

P1A MH048BA36X

MH BASE w/XYPEX T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 42"
- P1) 48" - MH BASE w/XYPEX T/n - 36"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 1) PSX - 12-08 NYLO
- 7) MH Step ML-10-TDS-NCR - 10"

0 lb
 3116 lb
 3797 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 8 lb
 0 lb

 Structure Total: 8667 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

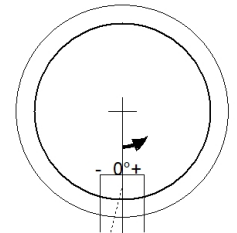
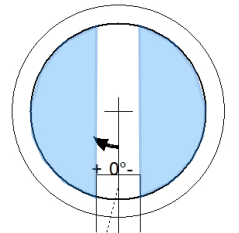
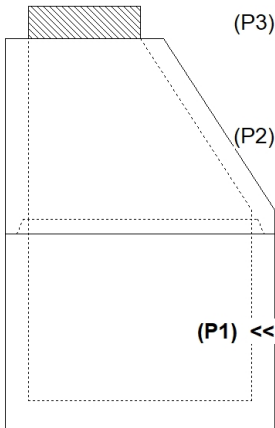
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 890.05' Rim to Invert: 7.15' Slack: 2.8" Sump: 2" Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	882.9'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

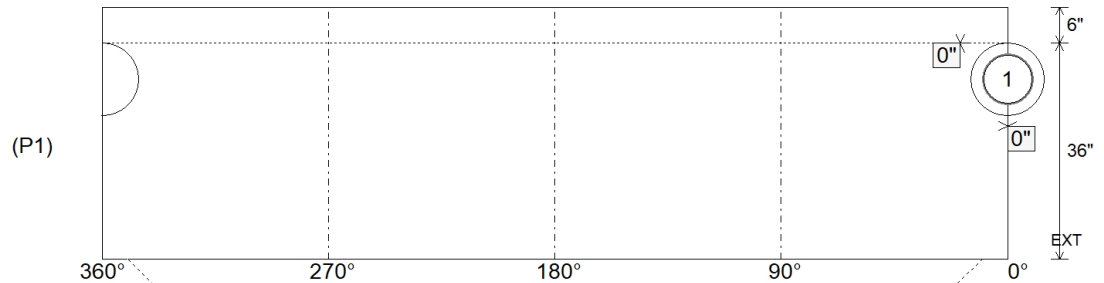
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



FOR INVERT ONLY

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

Weight (Net): 3797 lb
 Volume (Net): 0.97cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:06:35 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH E-3

P2 MH048CN42X

ECC XYPEX CONE w/ 24" HOLE F/G

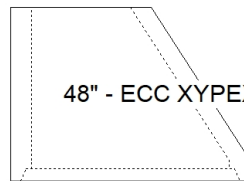
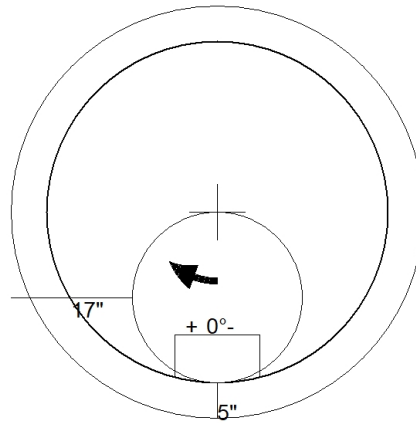
- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 42"
- P1) 48" - MH BASE w/XYPEX T/n - 36"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 1) PSX - 12-08 NYLO
- 7) MH Step ML-10-TDS-NCR - 10"

0 lb
 3116 lb
 3797 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 8 lb
 0 lb

 Structure Total: 8667 lb

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

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



48" - ECC XYPEX CONE w/ 24" HOLE F/G - 42" - (P2)

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 42"

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

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 4:05:07 PM

PC: T. Ryan



Structure ID: MH F-1

P1 MH048BA24X

MH BASE w/XYPEX T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE w/XYPEX T/n - 24"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 2251 lb
 2911 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 6923 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

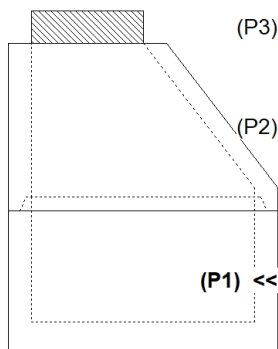
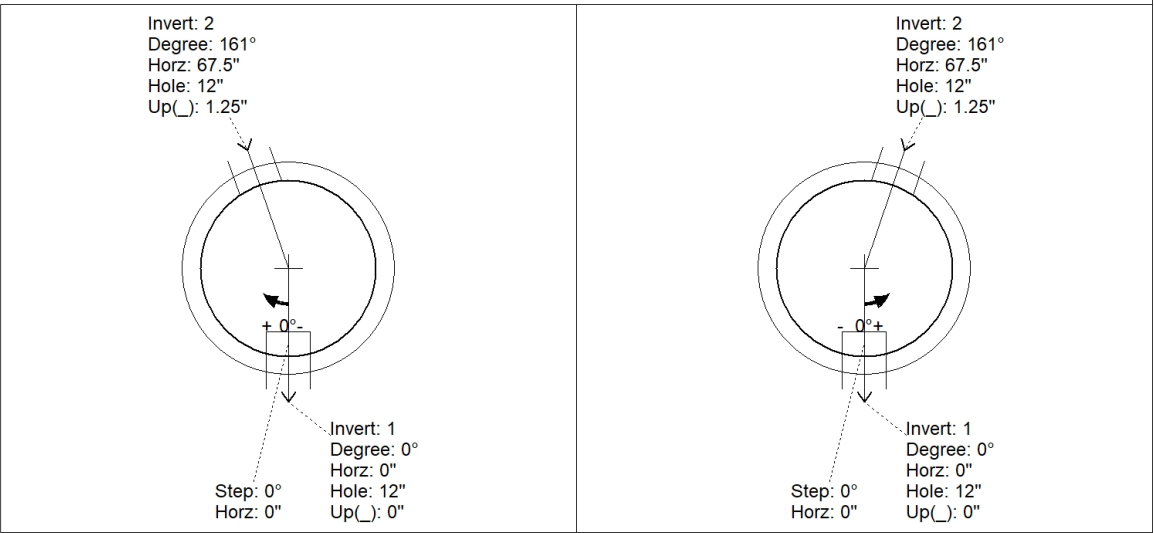
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 891.16' Rim to Invert: 5.51' Slack: 1.12" Sump: 2" Step Position: 0°

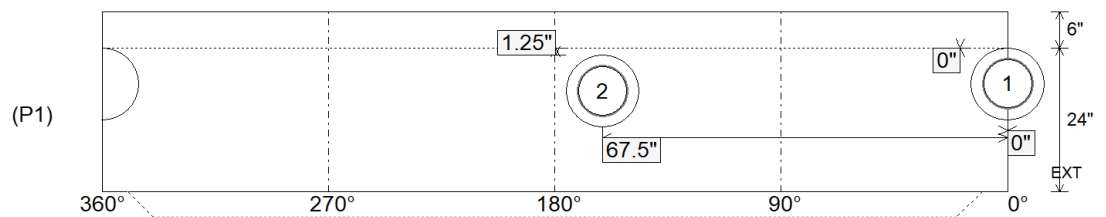
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	885.65'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	885.75'	161°	81.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 4:05:07 PM

PC: T. Ryan



Structure ID: MH F-1

P1A MH048BA24X

MH BASE w/XYPEX T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE w/XYPEX T/n - 24"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 2251 lb
 2911 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 6923 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

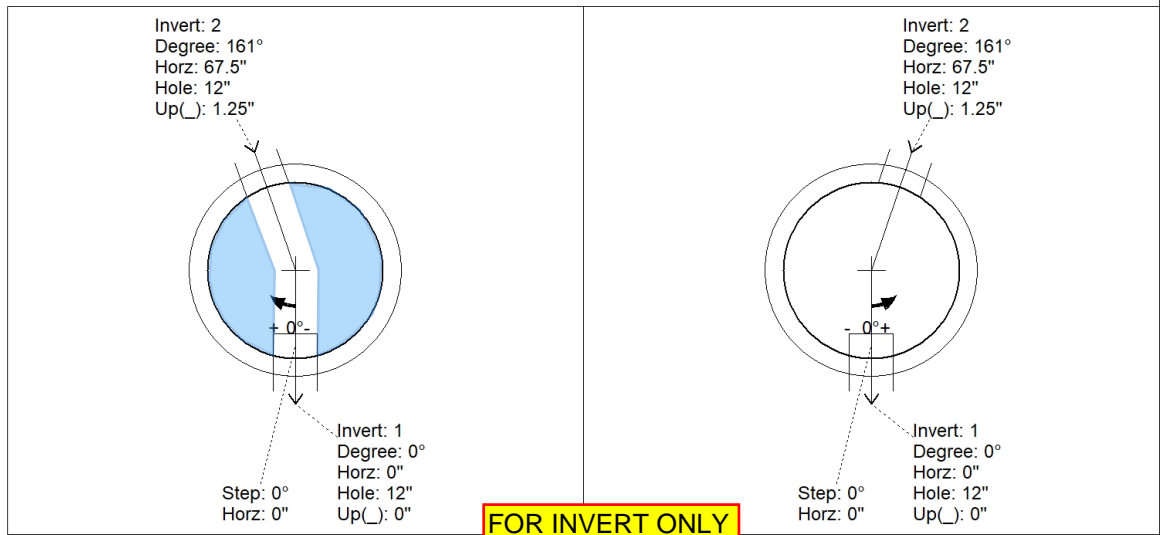
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 891.16' Rim to Invert: 5.51' Slack: 1.12" Sump: 2" Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	885.65'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	885.75'	161°	81.5"	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										

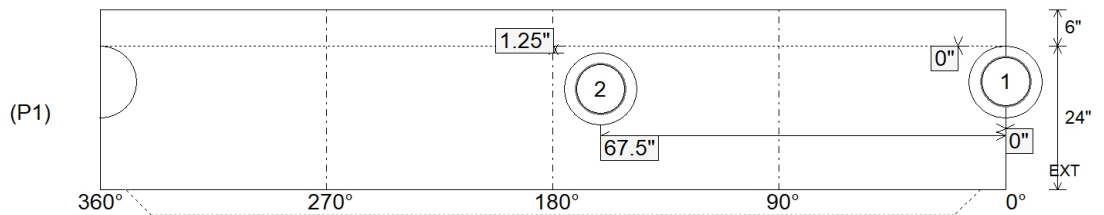
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



FOR INVERT ONLY

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:06:35 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH F-1

P2 MH048CN36X

ECC XYPEX CONE w/ 24" HOLE F/G

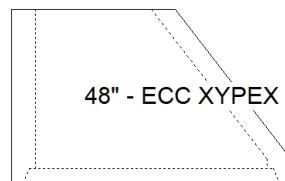
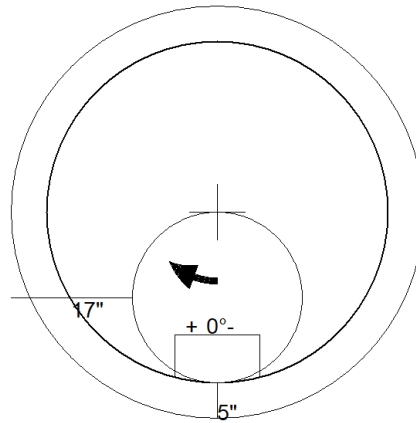
- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE w/XYPEX T/n - 24"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 2251 lb
 2911 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 6923 lb

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

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



48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36" - (P2)

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

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 4:05:07 PM

PC: T. Ryan



Structure ID: MH F-2

P1 MH048BA24X

MH BASE w/XYPEX T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 3"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE w/XYPEX T/n - 24"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 202 lb
 2251 lb
 2911 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 7126 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

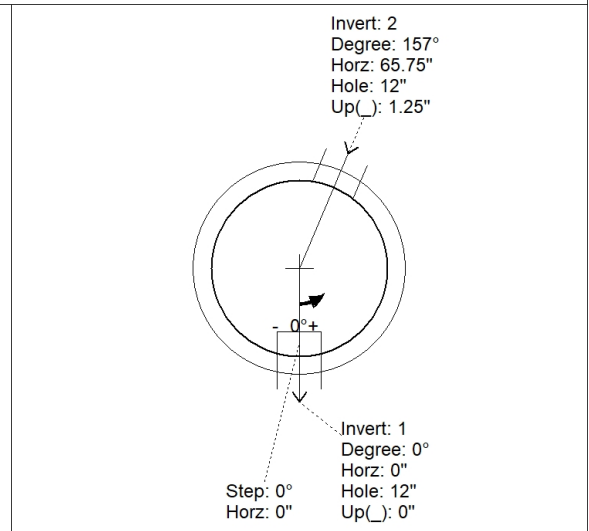
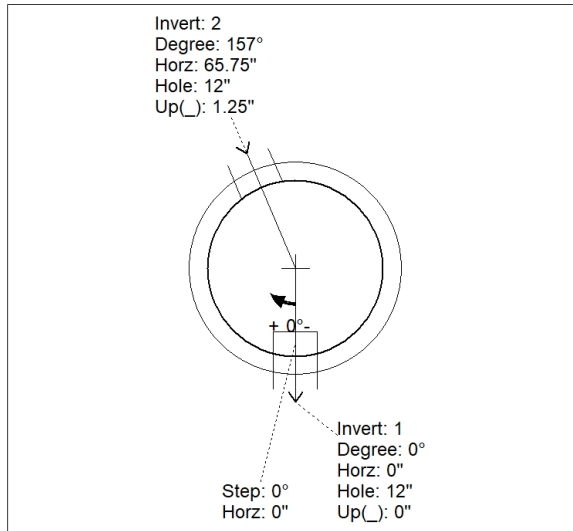
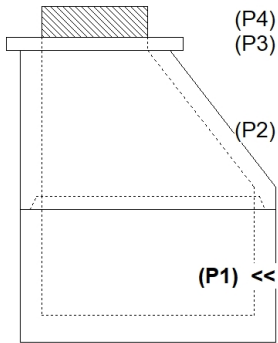
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 892.59' Rim to Invert: 5.69' Slack: 0.28" Sump: 2" Step Position: 0°

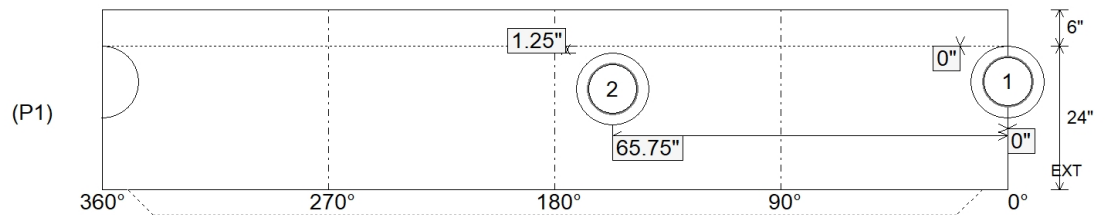
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	886.9'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	887'	157°	79.5"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 4:05:07 PM

PC: T. Ryan



Structure ID: MH F-2

P1A MH048BA24X

MH BASE w/XYPEX T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 3"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE w/XYPEX T/n - 24"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 202 lb
 2251 lb
 2911 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

 Structure Total: 7126 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

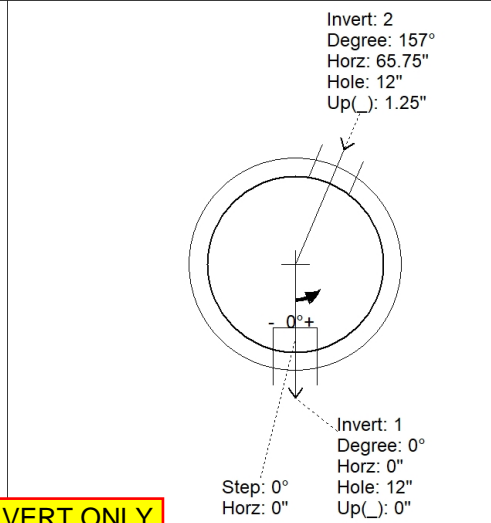
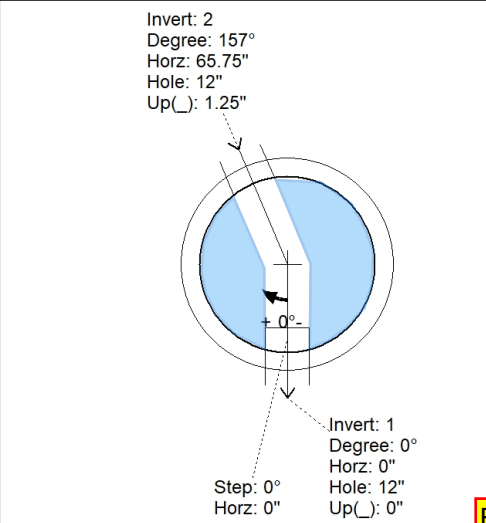
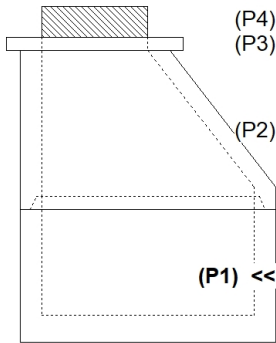
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 892.59' Rim to Invert: 5.69' Slack: 0.28" Sump: 2" Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	886.9'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2	887'	157°	79.5"	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										

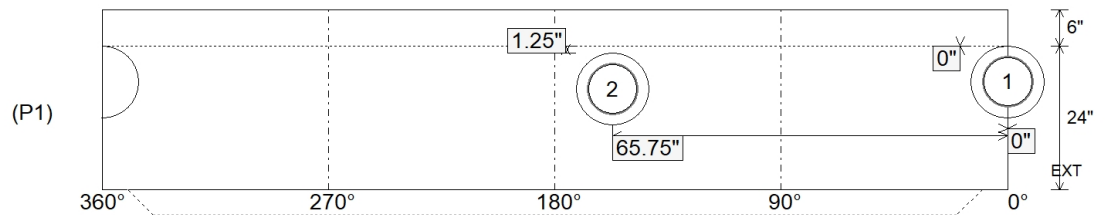
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



FOR INVERT ONLY

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

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

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:06:35 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH F-2

P2 MH048CN36X

ECC XYPEX CONE w/ 24" HOLE F/G

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 3"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 36"
- P1) 48" - MH BASE w/XYPEX T/n - 24"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 2) PSX - 12-08 NYLO
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 202 lb
 2251 lb
 2911 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 16 lb
 0 lb

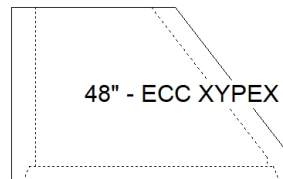
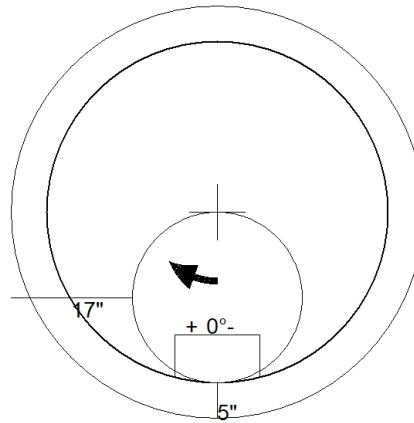
Structure Total: 7126 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

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



Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 36"

Weight (Net): 2251 lb
 Volume (Net): 0.57cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 4:05:08 PM

PC: T. Ryan



Structure ID: MH F-3

P1 MH048BA18X

MH BASE w/XYPEX T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 4"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 30"
- P1) 48" - MH BASE w/XYPEX T/n - 18"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 1) PSX - 12-08 NYLO
- 4) MH Step ML-10-TDS-NCR - 10"

- 0 lb
- 270 lb
- 1981 lb
- 2540 lb
- 1440 lb
- 0 lb
- 0 lb
- 0 lb
- 305 lb
- 0 lb
- 8 lb
- 0 lb

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

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

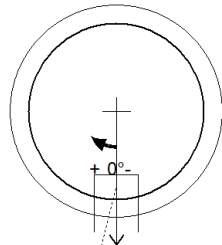
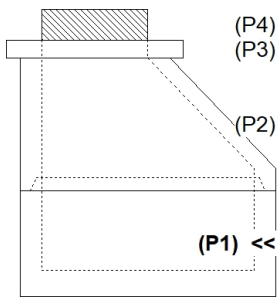
Structure Total: 6544 lb

Rim: 893.69' Rim to Invert: 4.82' Slack: 0.84" Sump: 2" Step Position: 0°

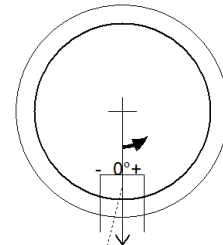
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	888.87'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

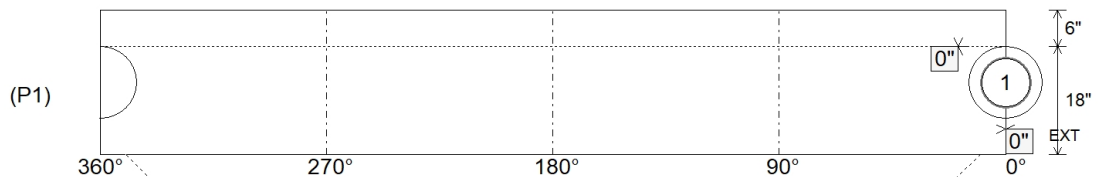


Invert: 1
 Degree: 0°
 Horz: 0"
 Hole: 12"
 Up(): 0"



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

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

Height (Int): 18"
 Height (Ext): 24"

Weight (Net): 2540 lb
 Volume (Net): 0.65cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam

Tech: J. Horsley

11/11/2025 4:05:08 PM

PC: T. Ryan



Structure ID: MH F-3

P1A MH048BA18X

MH BASE w/XYPEX T/n

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 4"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 30"
- P1) 48" - MH BASE w/XYPEX T/n - 18"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 1) PSX - 12-08 NYLO
- 4) MH Step ML-10-TDS-NCR - 10"

- 0 lb
- 270 lb
- 1981 lb
- 2540 lb
- 1440 lb
- 0 lb
- 0 lb
- 0 lb
- 0 lb
- 305 lb
- 0 lb
- 8 lb
- 0 lb

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

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

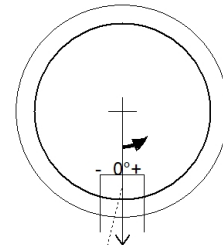
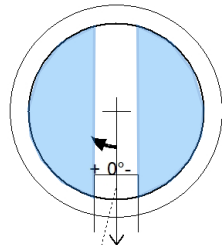
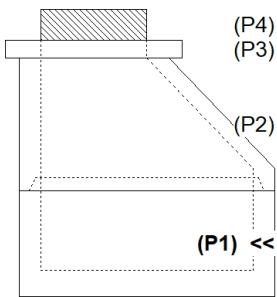
Structure Total: 6544 lb

Rim: 893.69' Rim to Invert: 4.82' Slack: 0.84" Sump: 2" Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	888.87'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

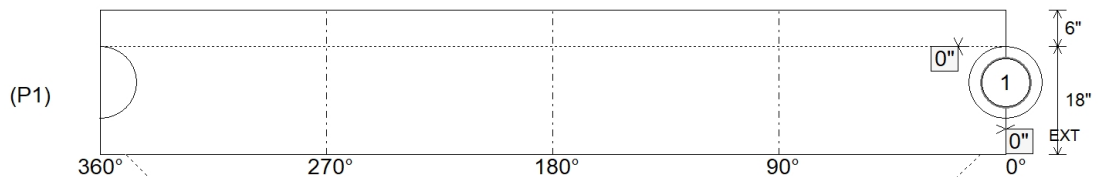
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



FOR INVERT ONLY

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

Height (Int): 18"
 Height (Ext): 24"

Weight (Net): 2540 lb
 Volume (Net): 0.65cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:06:35 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH F-3

P2 MH048CN30X

ECC XYPEX CONE w/ 24" HOLE F/G

- P4) 24" - CASTING HEIGHT - 7"
- P3) 24" - XYPEX GRADE RING F/F - 4"
- P2) 48" - ECC XYPEX CONE w/ 24" HOLE F/G - 30"
- P1) 48" - MH BASE w/XYPEX T/n - 18"
- 1) 48" - SAN. INV. CHANNEL - FULL HEIGHT
- 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212
- 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)
- 1) ADMIXTURE XYPEX C-500 NF RED
- 1) CASTING - HOE MC-350 F/C Sanitary
- 1) 48" - DBL 1"x14.5' Butyl (2x)
- 1) PSX - 12-08 NYLO
- 4) MH Step ML-10-TDS-NCR - 10"

0 lb
 270 lb
 1981 lb
 2540 lb
 1440 lb
 0 lb
 0 lb
 0 lb
 305 lb
 0 lb
 8 lb
 0 lb

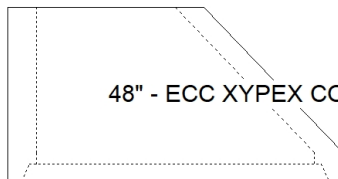
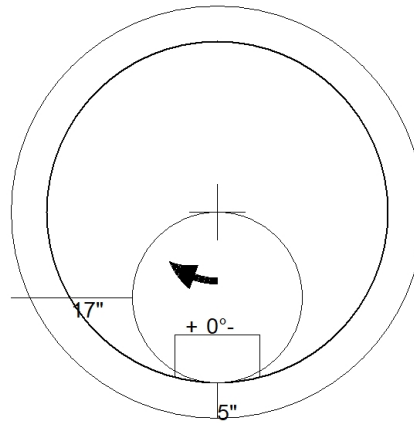
Structure Total: 6544 lb

Structure Notes:

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

REINFORCING PER ASTM A615 (GRADE 60).

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



48" - ECC XYPEX CONE w/ 24" HOLE F/G - 30" - (P2)

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Groove

Wall Thickness: 5"

Height (Ext): 30"

Weight (Net): 1981 lb
 Volume (Net): 0.51cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:05 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH-4A01

P1 MH048BA30

MH BASE T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 24"
- P1) 48" - MH BASE T/n - 30"
- 1) CASTING - HOE MC-350 F/C Storm
- 1) 48" - Conseal CS-102 1.00"
- 2) Hole - 20
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 1550 lb
 3155 lb
 305 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 5010 lb

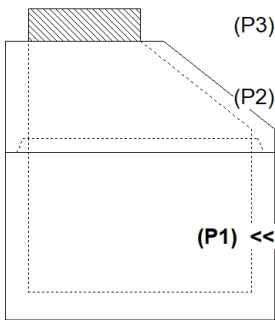
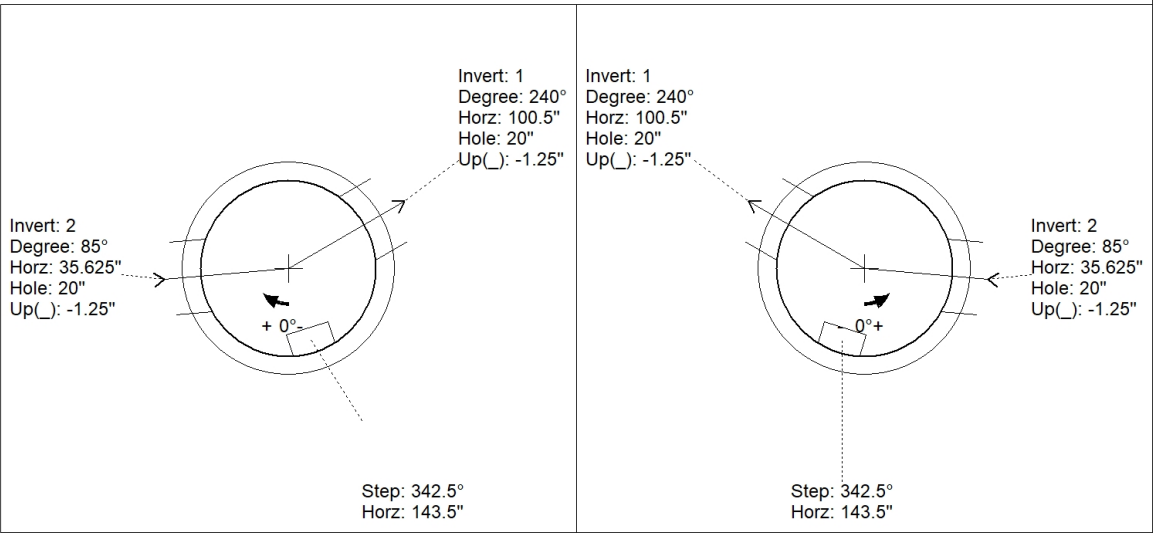
Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. REINFORCING PER ASTM A615 (GRADE 60).
 4. CASTING BY ICAST (HOE MC-350 F/C).
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE/RISER (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 892.39' Rim to Invert: 5.17' Slack: 1.04" Sump: 0" Step Position: 342.5°

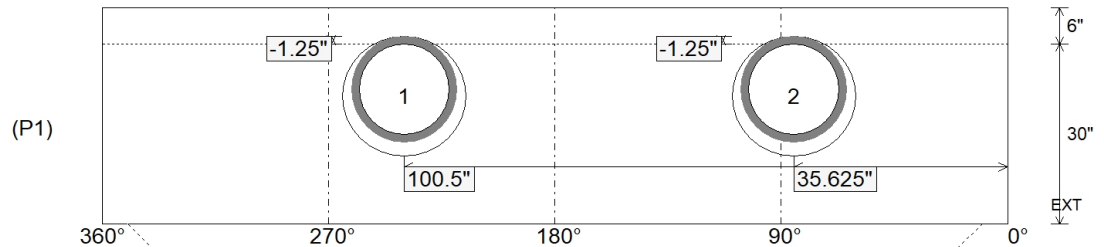
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	887.22'	240°	121.5"	15" HDPE	17.6"	Hole 20	20"	20.629"	-1.25"	0"
Invert 2	887.22'	85°	43"	15" HDPE	17.6"	Hole 20	20"	20.629"	-1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

Weight (Net): 3155 lb
 Volume (Net): 0.81cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:06:30 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH-4A01

P2 MH048CN24

ECC CONE w/ 24" HOLE F/G

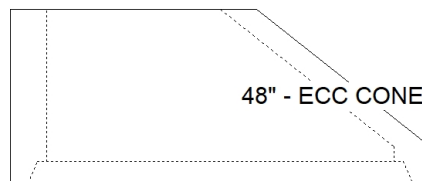
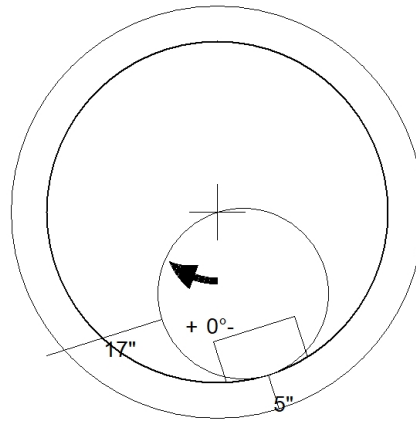
- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - ECC CONE w/ 24" HOLE F/G - 24"
- P1) 48" - MH BASE T/n - 30"
- 1) CASTING - HOE MC-350 F/C Storm
- 1) 48" - Conseal CS-102 1.00"
- 2) Hole - 20
- 5) MH Step ML-10-TDS-NCR - 10"

0 lb
 1550 lb
 3155 lb
 305 lb
 0 lb
 0 lb
 0 lb

 5010 lb

Structure Total: 5010 lb

Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. REINFORCING PER ASTM A615 (GRADE 60).
 4. CASTING BY ICAST (HOE MC-350 F/C).
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE/RISER (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.



48" - ECC CONE w/ 24" HOLE F/G - 24" - (P2)

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 24"	Weight (Net): 1550 lb Volume (Net): 0.33cu.yd
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Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:05:05 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH-4A02

P1 MH048BA30

MH BASE T/n

- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P1) 48" - MH BASE T/n - 30"
- 1) CASTING - HOE MC-350 F/C Storm
- 1) 48" - Conseal CS-102 1.00"
- 2) Hole - 20
- 3) MH Step ML-10-TDS-NCR - 10"

0 lb
 1561 lb
 3155 lb
 305 lb
 0 lb
 0 lb
 0 lb

 Structure Total: 5021 lb

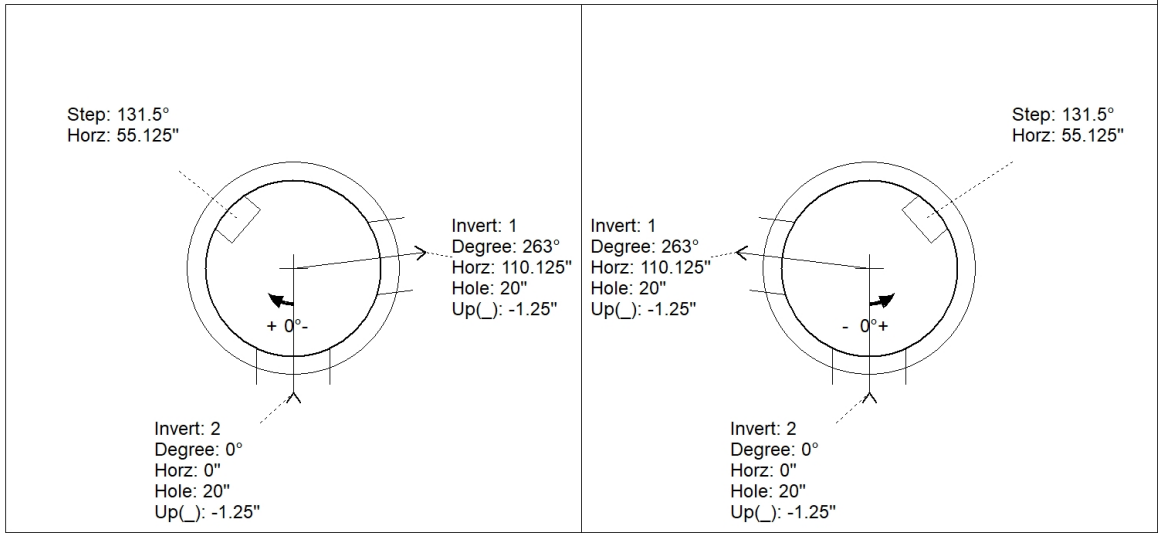
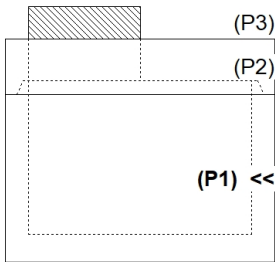
Structure Notes:
 1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. REINFORCING PER ASTM A615 (GRADE 60).
 4. CASTING BY ICAST (HOE MC-350 F/C).
 REINFORCING PER ASTM A615 (GRADE 60).
 - CONE/RISER (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 893.97' Rim to Invert: 4.17' Slack: 1.04" Sump: 0" Step Position: 131.5°

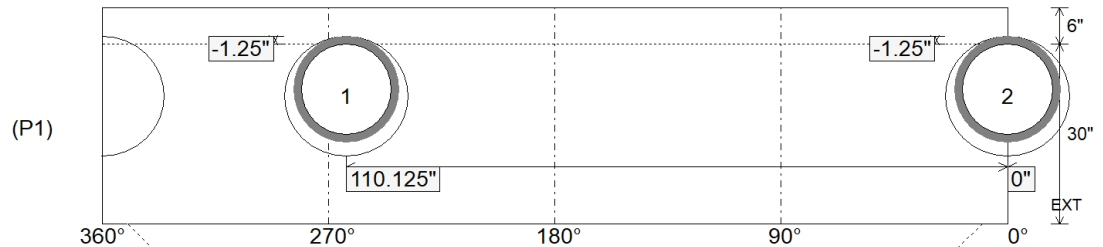
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	889.8'	263°	133.125"	15" HDPE	17.6"	Hole 20	20"	20.629"	-1.25"	0"
Invert 2	889.8'	0°	0"	15" HDPE	17.6"	Hole 20	20"	20.629"	-1.25"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: n/a

Wall Thickness: 5"
 Floor Height: 6"

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

Weight (Net): 3155 lb
 Volume (Net): 0.81cu.yd

Job Name: 25-1511 Halfhill Estates Ph.2
 Job Location: Nicholasville, KY
 Contractor: Perdue Environmental Contracting Co., Inc.

Plant: Beaver Dam
 11/11/2025 4:06:33 PM

Tech: J. Horsley
 PC: T. Ryan



Structure ID: MH-4A02

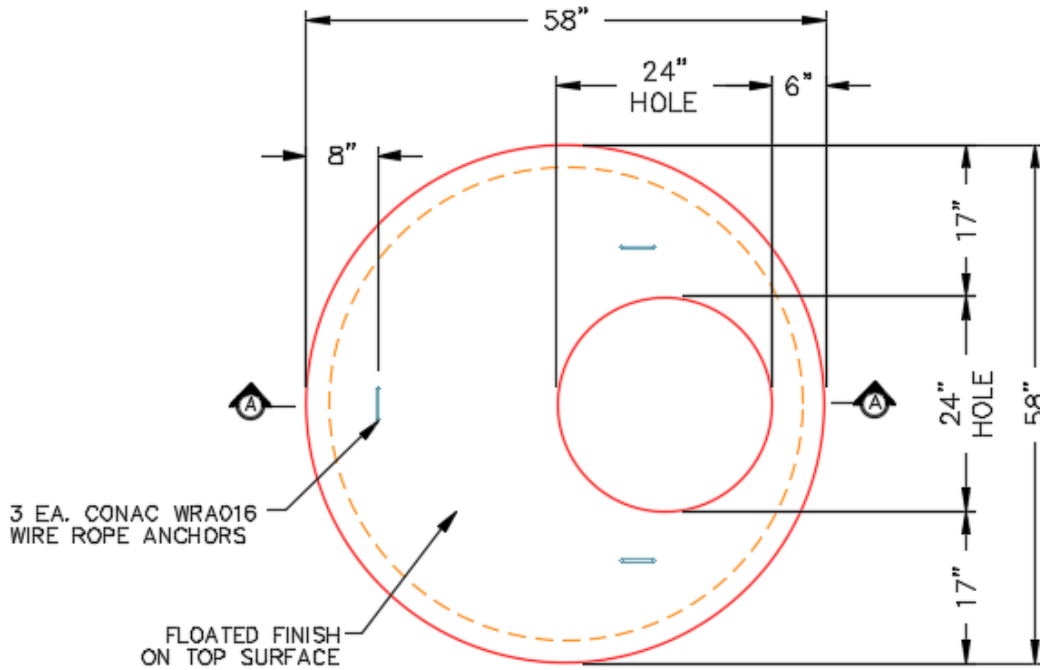
P2 MH048LD12ECC

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

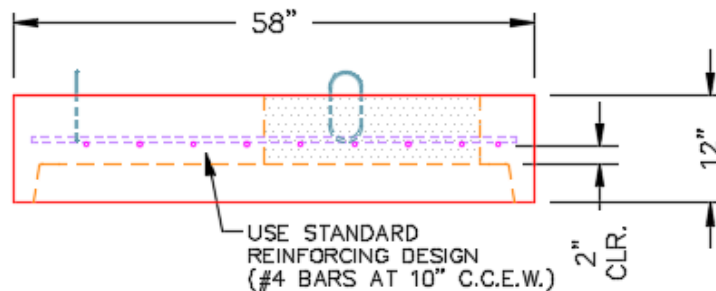
- P3) 24" - CASTING HEIGHT - 7"
- P2) 48" - MH FLAT TOP w/ 24" ECC Hole F/G - 12"
- P1) 48" - MH BASE T/n - 30"
- 1) CASTING - HOE MC-350 F/C Storm
- 1) 48" - Conseal CS-102 1.00"
- 2) Hole - 20
- 3) MH Step ML-10-TDS-NCR - 10"

	0 lb
	1561 lb
	3155 lb
	305 lb
	0 lb
	0 lb
	0 lb
Structure Total:	5021 lb

- Structure Notes:**
1. PER ASTM C478 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. REINFORCING PER ASTM A615 (GRADE 60).
 4. CASTING BY ICAST (HOE MC-350 F/C).
- REINFORCING PER ASTM A615 (GRADE 60).
- CONE/RISER (As .12)
 - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.



PLAN VIEW



SECTION A-A

Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 5"	Height (Ext): 12"	Weight (Net): 1561 lb Volume (Net): 0.42cu.yd
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