

Job Name: 25-3195 - The Banks Lift Station and Forcemain

Job Location: Gallatin, TN

Contractor: W&O Construction

Plant: 100

5/28/2026 6:53:25 PM

Tech: Jared - F

PC: A. Chambers



Structure ID: WET WELL

P3MH120RSVFCDA RED

MH RISER Custom Ht w/CONBLOCK CDA RED T/G

P7) 48" x 48" - HATCH (CAST FLUSH) - 3.75"

P6) 120" - MH FLAT TOP w/48"x48" Hatch w/ConBlock-CDA Red F/G - 18"

P5) 120" - MH RISER w/CONBLOCK CDA RED T/G - 96"

P4) 120" - MH RISER Custom Ht w/CONBLOCK CDA RED T/G - 86"

P3) 120" - MH RISER Custom Ht w/CONBLOCK CDA RED T/G - 86"

P2) 120" - MH RISER Custom Ht w/CONBLOCK CDA RED T/G - 86"

P1) 120" - MH SEPARATE BASE-T EXT. 14" (170" OD) w/CONBLOCK CDA RED T/n - 12"

1) JOINT WRAP - 12" WD x 120" MAC WRAP

1) ADMIXTURE CONBLOCK CDA RED

1) HATCH (Alum.) - HALLIDAY W2S 48"x48"

5) 120" - Conseal CS-231 1.00" (Double)

1) 48" x 48" - Conseal CS-231 1.00" (Double)

2) Hole - 8

2) Hole - 6

1) PSX - 16Y NYLO

100 lb

14814 lb

36124 lb

32669 lb

32669 lb

32669 lb

29640 lb

0 lb

0 lb

126 lb

0 lb

0 lb

0 lb

0 lb

8 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.

2. CONCRETE = 5,000 PSI AT 28 DAYS.

3. ADMIXTURE = CONBLOCK CDA RED.

4. HATCH SUPPLIED BY ICAST (HALLIDAY W2S 48"x48").

REINFORCING PER ASTM A615 (GRADE 60).

- TOP SLAB TOP LAYER = #4 BARS AT 12" C.C.E.W.

- TOP SLAB BTM LAYER = #5 BARS AT 6" C.C.E.W.

- RISER/WALLS (As .30)

- BOTTOM SLAB TONGUE = #5 BARS AT 6" C.C.E.W.

- BOTTOM SLAB = #6BARS AT 6" C.C.E.W. (DOUBLE MAT)

Rim: 458.5'

Rim to Invert: 7.94'

Slack: 0"

Sump: 276.72'

Structure Total: 178819 lb

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)

(P7)

(P6)

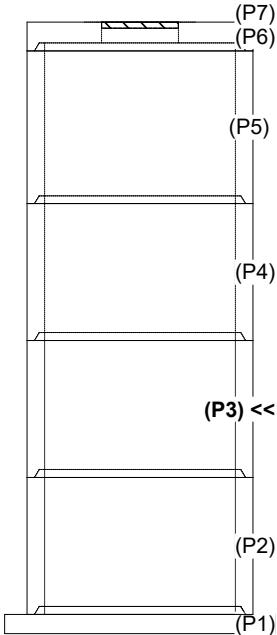
(P5)

(P4)

(P3) <<

(P2)

(P1)



INSIDE WALL DIMENSIONS

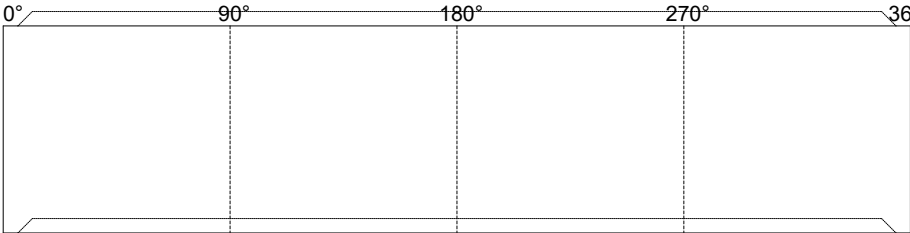
0°

90°

180°

270°

360°



EXT

86"

(P3)

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: Groove

Wall Thickness: 11"

Floor Height: 0"

Height (Int): 86"

Height (Ext): 86"

Weight (Net): 32669 lb

Volume (Net): 8.35cu.yd

Job Name: 26-2485 855358 Fuqua Development
Job Location: Nicholasville, KY
Contractor: Contech Engineering Solutions

Plant: Beaver Dam
6/5/2026 8:57:13 AM

Tech: S. Felletter
PC: C. Goff



Structure ID: 10-CS-12

P3 MH144RS78

MH RISER T/G

- P6) 24" - CASTING HEIGHT - 4"
P5) 144" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 18"
P4) 144" - MH RISER T/G - 42"
P3) 144" - MH RISER T/G - 78"
P2) 144" - MH RISER T/G - 54"
P1) 144" - MH MONOBASE 14F, Custom Ht T/n - 24"
1) ASSEMBLY REQUIRED - BRACKETS ONLY
1) CVSTENCILING
4) 144" - Conseal CS-102 1.00"
1) 24" - Conseal CS-102 1.00"
2) Hole - 48"

- 0 lb
23623 lb
22598 lb
37954 lb
29054 lb
39578 lb
0 lb
0 lb
0 lb
0 lb
0 lb
0 lb
- Structure Notes:**
1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. 4" CASTING BY OTHERS
4. LIFTING ANCHORS TO BE INSTALLED ON THE OUTSIDE OF THE STRUCTURE
5. ICAST TO INSTALL BRACKETS ONLY
6. CONTECH'S LOGO AS WELL AS THE INLET AND OUTLET MUST BE STENCILED ONTO THE STRUCTURE

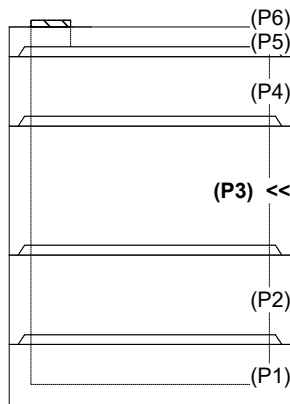
Structure Total: 152807 lb

- REINFORCING PER ASTM A615 (GRADE 60).**
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.
- RISER/WALLS (As .36)
- FLOOR (As .47) #5 BARS AT 8" C.C.E.W.

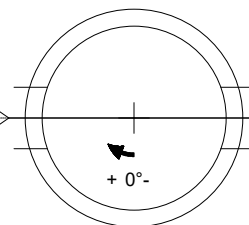
Rim: 1019.03' Rim to Invert: 9.83' Slack: 5.996" Sump: 108.036" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	1009.2'	270°	400.553"	36" RCP B WALL	44"	Hole 48	48"	48.937"	18.036"	0"
Invert 2	1009.2'	90°	133.518"	36" RCP B WALL	44"	Hole 48	48"	48.937"	18.036"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

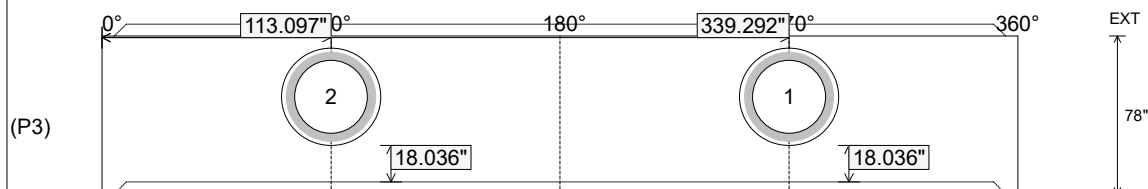


Invert: 2
Degree: 90°
Horz: 113.097"
Hole: 48"
Up(): 18.036"



Invert: 1
Degree: 270°
Horz: 339.292"
Hole: 48"
Up(): 18.036"

INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: Groove

Wall Thickness: 13"
Floor Height: 0"

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

Weight (Net): 37954 lb
Volume (Net): 9.69cu.yd

Job Name: 26-2582 - 739729 Teal Drive
Job Location: Nashville, TN
Contractor: Contech Engineering Solutions

Plant: Beaver Dam
6/16/2026 1:01:44 PM

Tech: J. Coppage
PC: T. Sekula



Structure ID: 20-CS-4

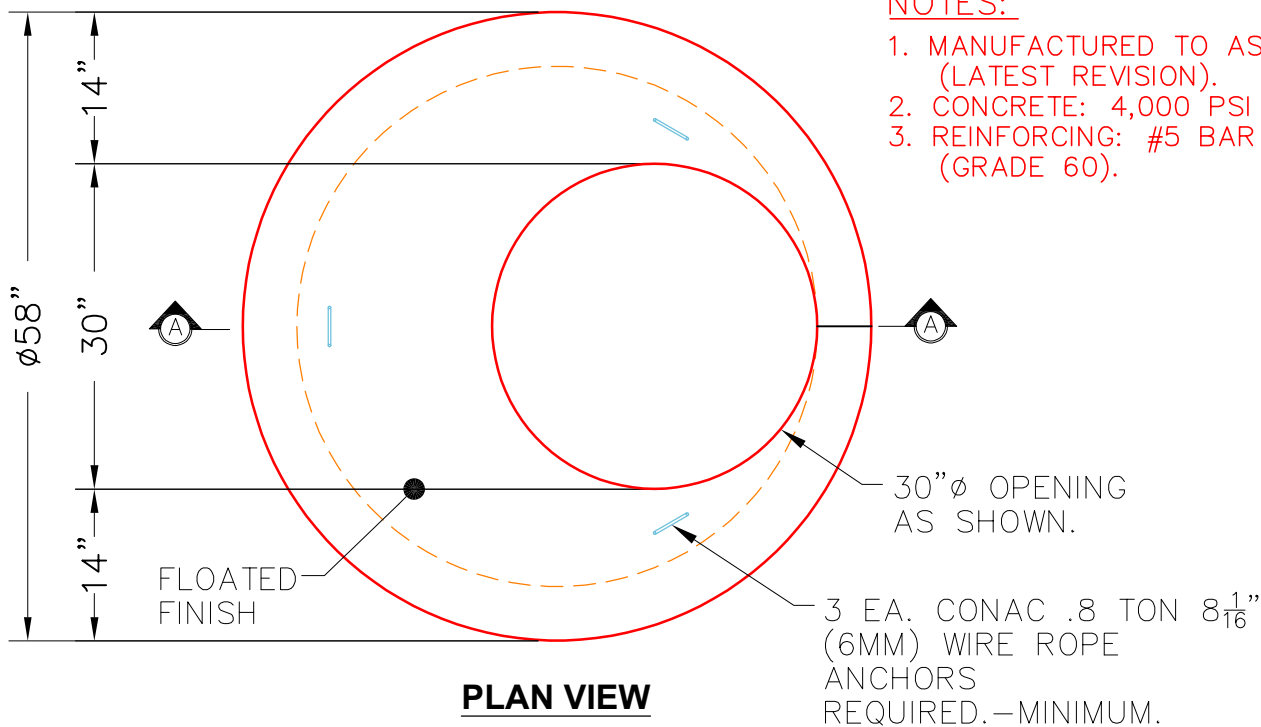
P3 MH048LD12-30

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

P4) 30" - CASTING HEIGHT - 4"
P3) 48" - MH FLAT LID w/30in ECC Hole F/G - 12"
P2) 48" - MH RISER SPECIAL T/G - 48"
P1) 48" - MH BASE T/n - 36"
1) ASSEMBLY REQUIRED
1) CVSTENCILING
2) 48" - Conseal CS-102 1.00"
2) Hole - 24

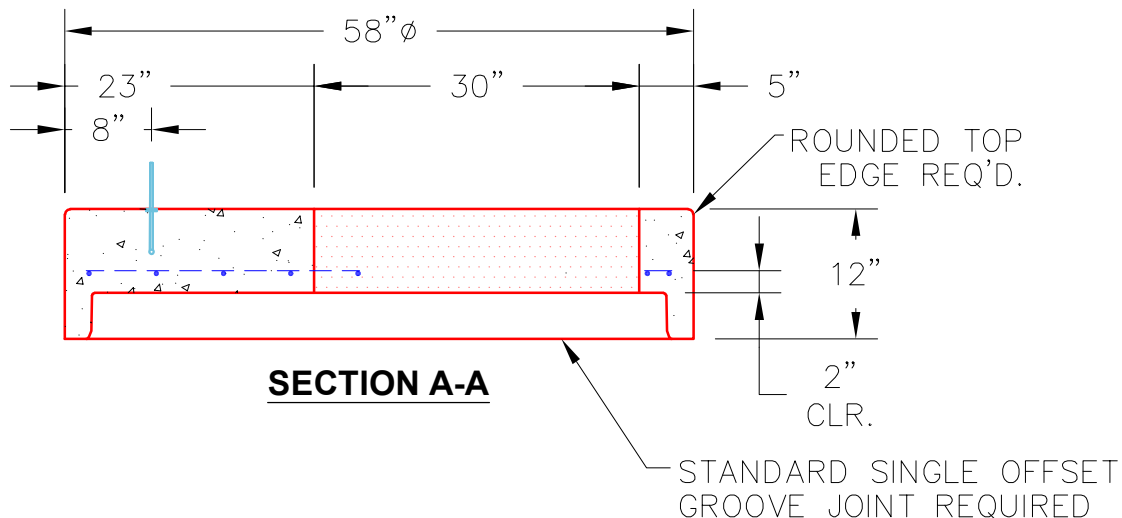
0 lb
1413 lb
2959 lb
3845 lb
0 lb
0 lb
0 lb
0 lb
Structure Total: 8217 lb

Structure Notes:
SITE DESIGNATION: STM A2
(4" TALL CASTING PROVIDED BY OTHERS)
ICAST TO INSTALL THE INTERNALS
BASE TO BE MECHANICALLY ATTACHED TO THE BOTTOM OF THE CONTROL RISER
CONTECH'S LOGO AS WELL AS THE INLET AND THE OUTLET MUST BE STENBCILED ONTO THE STRUCTURE



NOTES:

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



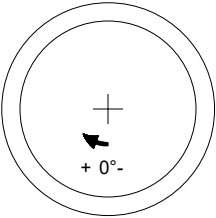
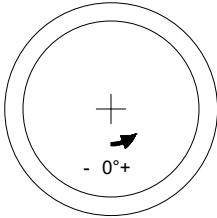
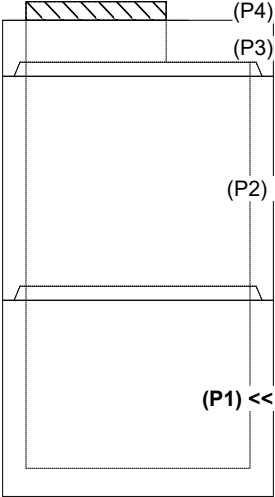
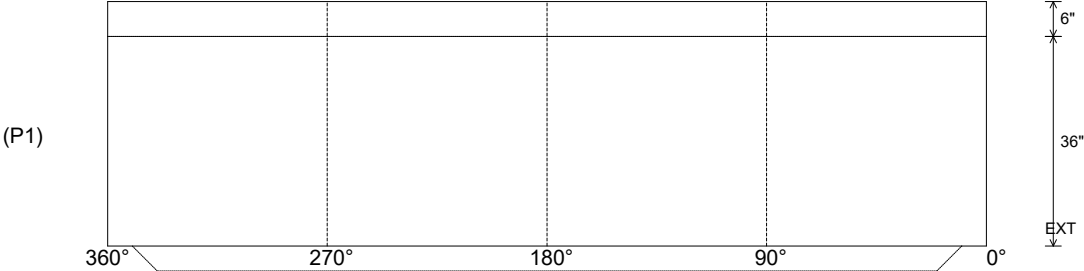
Coating (Int):
Coating (Ext):

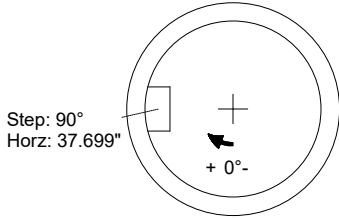
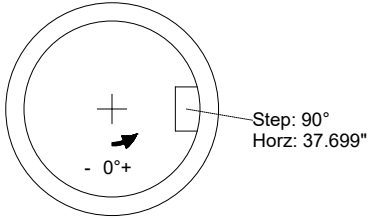
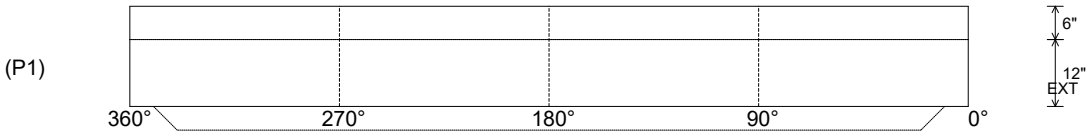
Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 5"

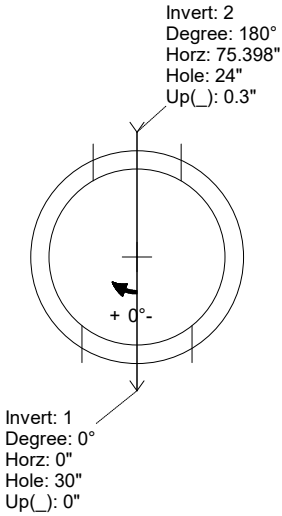
Height (Ext): 12"

Weight (Net): 1413 lb
Volume (Net): 0.36cu.yd

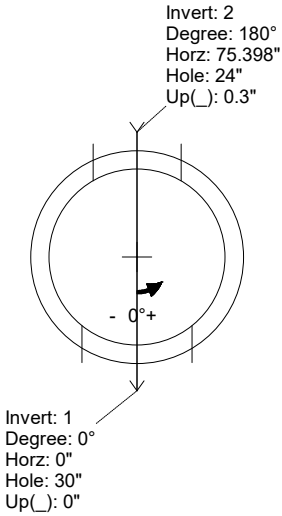
Job Name: 26-2582 - 739729 Teal Drive Job Location: Nashville, TN Contractor: Contech Engineering Solutions					Plant: Beaver Dam 6/16/2026 1:01:31 PM		Tech: J. Coppage PC: T. Sekula					
Structure ID: 20-CS-4												
P1		MH048BA36		MH BASE T/n								
P4) 30" - CASTING HEIGHT - 4" P3) 48" - MH FLAT LID w/30in ECC Hole F/G - 12" P2) 48" - MH RISER SPECIAL T/G - 48" P1) 48" - MH BASE T/n - 36" 1) ASSEMBLY REQUIRED 1) CVSTENCILING 2) 48" - Conseal CS-102 1.00" 2) Hole - 24					0 lb 1413 lb 2959 lb 3845 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- 8217 lb		Structure Notes: SITE DESIGNATION: STM A2 (4" TALL CASTING PROVIDED BY OTHERS) ICAST TO INSTALL THE INTERNALS BASE TO BE MECHANICALLY ATTACHED TO THE BOTTOM OF THE CONTROL RISER CONTECH'S LOGO AS WELL AS THE INLET AND THE OUTLET MUST BE STENBCILED ONTO THE STRUCTURE					
Rim: 472.1'					Rim to Invert: 4.74'		Slack: 4.88"		Sump: 48"		Step Position:	
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset		
Invert 1												
Invert 2												
Invert 3												
Invert 4												
Invert 5												
Invert 6												
Invert 7												
Invert 8												
RIGHT-SIDE UP VIEW (int. dimensions)  UPSIDE-DOWN VIEW (int. dimenions)   (P1) << INSIDE WALL DIMENSIONS  (P1)												
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): 3845 lb Volume (Net): 0.98cu.yd		

Job Name: 26-2484 Bass Pro Shops Outpost Paducah Job Location: Paducah, KY Contractor: Central Paving Co. of Paducah, Inc.					Plant: Beaver Dam 6/16/2026 8:02:33 AM		Tech: S. Felletter PC: A. Chambers				
Structure ID: Y1 ST-JB											
P1 MH048BA12			MH BASE T/n								
P5) 24" - CASTING HEIGHT - 7" P4) 24" - GRADE RING F/F - 4" P3) 48" - ECC CONE w/ 24" HOLE F/G - 30" P2) 48" - MH RISER T/G - 72" P1) 48" - MH BASE T/n - 12" 1) CASTING - HOE MC-375 F/C Storm 2) 48" - Conseal CS-102 1.00" 2) 24" - Conseal CS-102 1.00" 3) Hole - 30					0 lb 270 lb 2050 lb 4082 lb 2169 lb 271 lb 0 lb 0 lb 0 lb ----- Structure Total: 8841 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE MC-375 F/C). 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: 370.05' Rim to Invert: 8.55' Slack: 1.6" Sump: 24" Step Position: 90°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions) 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): 12" Height (Ext): 18"		Weight (Net): 2169 lb Volume (Net): 0.55cu.yd	

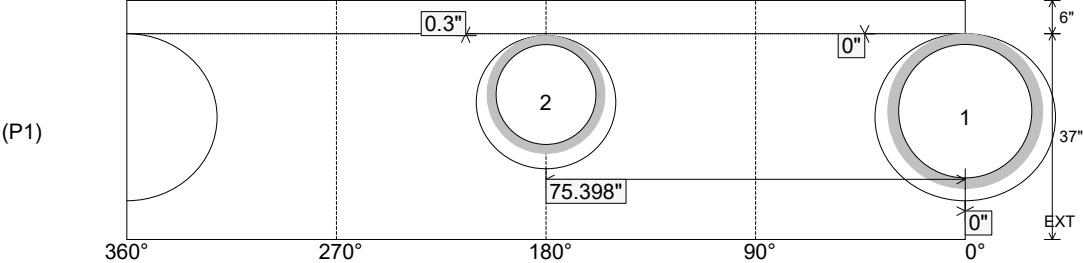
Job Name: 26-2484 Bass Pro Shops Outpost Paducah Job Location: Paducah, KY Contractor: Central Paving Co. of Paducah, Inc.					Plant: Beaver Dam 6/16/2026 8:02:31 AM		Tech: S. Felletter PC: A. Chambers				
Structure ID: X6 ST-CI											
P1 MH048BAVF		MH BASE Custom Ht F/n									
P3) 24" x 24" - CASTING HEIGHT - 5" P2) 48" - MH FLAT TOP w/24"x24" Hole F/F - 7" P1) 48" - MH BASE Custom Ht F/n - 37" 1) CASTING - HOE KY-465 SET (CBI TY F) 1) 48" - Conseal CS-102 1.00" 1) 24" x 24" - Conseal CS-102 1.00" 1) Hole - 30 1) Hole - 24						0 lb 1214 lb 3402 lb 465 lb 0 lb 0 lb 0 lb 0 lb ----- 5080 lb Structure Total:		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE 465 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: 370.5'		Rim to Invert: 4'		Slack: 0.9"		Sump: 1.9"		Step Position: 0°			
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1	366.5'	0°	0"	24" HDPE	27.8"	Hole 30	30"	32.406"	0"	0"	
Invert 2	366.5'	180°	91.106"	18" HDPE	21.2"	Hole 24	24"	25.133"	0.3"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



RIGHT-SIDE UP VIEW (int. dimensions)

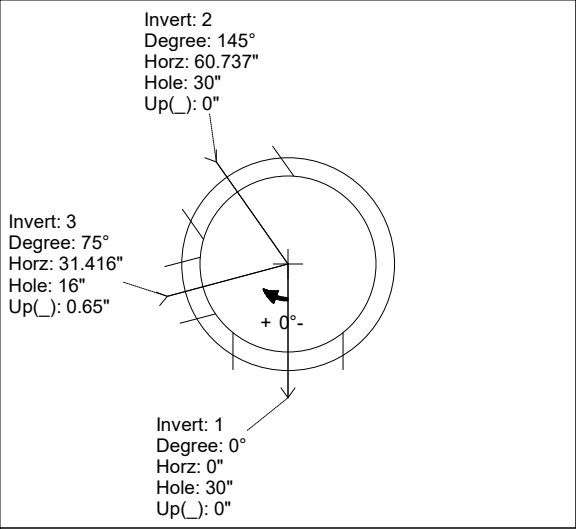
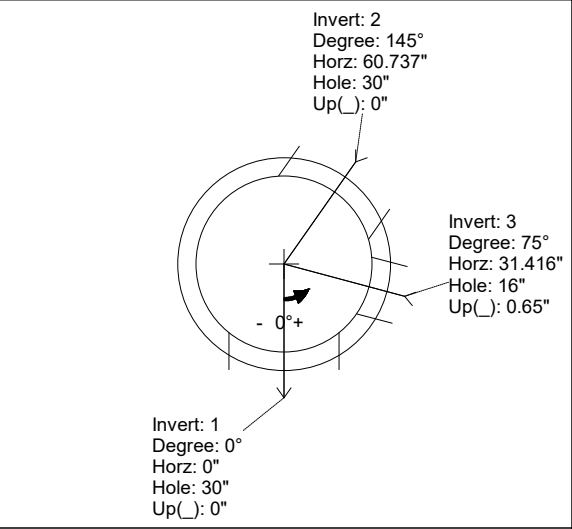
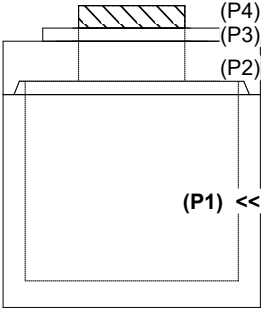
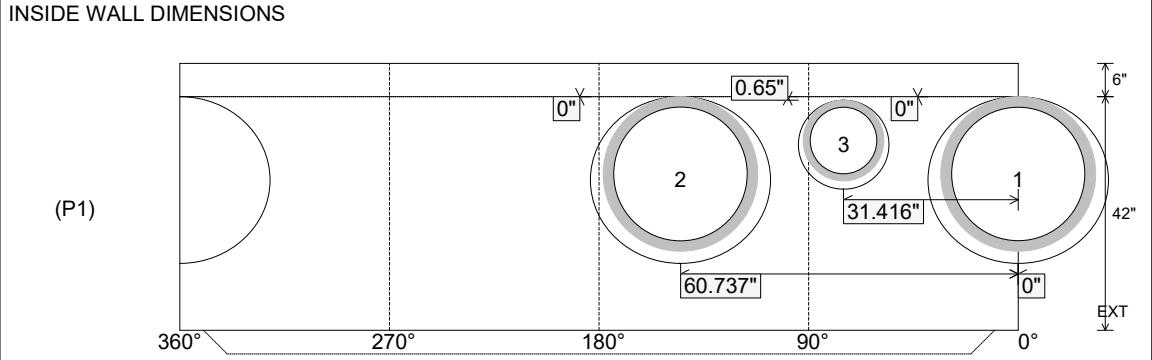


UPSIDE-DOWN VIEW (int. dimensions)

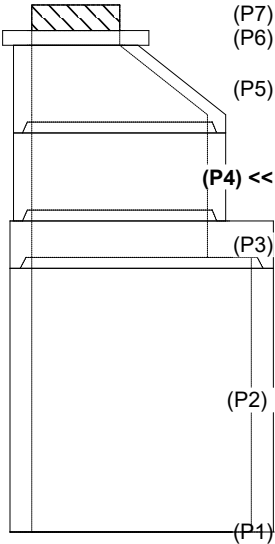


INSIDE WALL DIMENSIONS

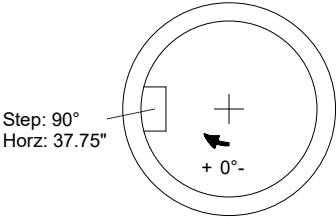
Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 37" Height (Ext): 43"	Weight (Net): 3402 lb Volume (Net): 0.87cu.yd
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Job Name: 26-2484 Bass Pro Shops Outpost Paducah Job Location: Paducah, KY Contractor: Central Paving Co. of Paducah, Inc.					Plant: Beaver Dam 6/16/2026 8:02:30 AM		Tech: S. Felletter PC: A. Chambers									
Structure ID: X5 ST-CI																
P1 MH048BA42		MH BASE T/n														
P4) 24" x 24" - CASTING HEIGHT - 5" P3) 24" x 24" - GRADE RING F/F - 3" P2) 48" - MH FLAT TOP w/24"x24" Hole F/G - 12" P1) 48" - MH BASE T/n - 42" 1) CASTING - HOE KY-465 SET (CBI TY F) 1) 48" - Conseal CS-102 1.00" 2) 24" x 24" - Conseal CS-102 1.00" 2) Hole - 30 1) Hole - 16						0 lb 258 lb 1500 lb 3546 lb 465 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 5769 lb		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE 465 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: 370.6'		Rim to Invert: 5.05'		Slack: 0.5"		Sump: 1.9"		Step Position: 0°								
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset						
Invert 1	365.55'	0°	0"	24" HDPE	27.8"	Hole 30	30"	32.406"	0"	0"						
Invert 2	365.55'	145°	73.391"	24" HDPE	27.8"	Hole 30	30"	32.406"	0"	0"						
Invert 3	365.55'	75°	37.961"	12" HDPE	14.5"	Hole 16	16"	16.312"	0.65"	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  <table><tr><td>Coating (Int): Coating (Ext):</td><td>Seam Up: Tongue Seam Dn: n/a</td><td>Wall Thickness: 5" Floor Height: 6"</td><td>Height (Int): 42" Height (Ext): 48"</td><td>Weight (Net): 3546 lb Volume (Net): 0.91cu.yd</td></tr></table>												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): 3546 lb Volume (Net): 0.91cu.yd
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): 3546 lb Volume (Net): 0.91cu.yd												

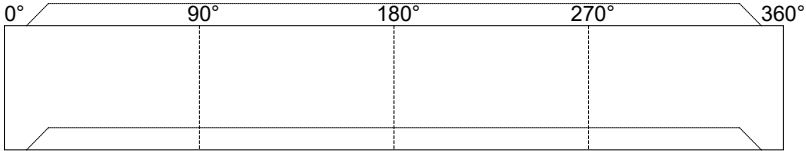
Job Name: 25-2471 - Texas Roadhouse Job Location: Danville, KY Contractor: McCain Bros Excavating LLC					Plant: 100 6/12/2026 3:42:51 PM		Tech: Jared - F PC: M. Sullivan				
Structure ID: 1											
P4 MH048RS24 MH RISER T/G											
P7) 24" - CASTING HEIGHT - 7" P6) 24" - GRADE RING F/F - 4" P5) 48" - ECC CONE w/ 24" HOLE F/G - 24" P4) 48" - MH RISER T/G - 24" P3) 60" - MH Transition Slab 48" Hole T/G - 13" P2) 60" - MH RISER T/F - 72" P1) 60" - P.I.P. BY OTHERS - BTM SLAB F/n - 0" 2) 60" - Conseal CS-202 1.00" 2) 48" - Conseal CS-202 1.00" 2) DOGHOUSE - 40"x42" 1) Hole - 30 10) MH Step ML-10-TDS-NCR - 10"						0 lb 270 lb 1550 lb 1677 lb 1928 lb 5413 lb 0 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 10838 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO INVERT CHANNEL. 4. (7" TALL CASTING BY OTHERS) . REINFORCING PER ASTM A615 (GRADE 60). - CONE (As .12). - RISER/WALLS (As .12) - TRANS. SLAB (As .62) #5 BARS AT 6" C.C.E.W. - RISER/WALLS (As .18)			
Rim: 1036.1' Rim to Invert: 11.6' Slack: 0.2" Sump: 5" Step Position: 90°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



RIGHT-SIDE UP VIEW (int. dimensions)



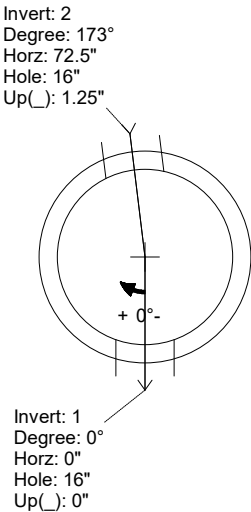
INSIDE WALL DIMENSIONS



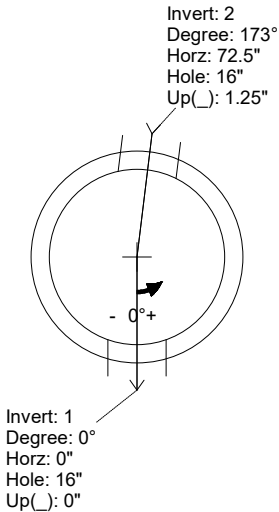
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 5" Floor Height: 0"	Height (Int): 24" Height (Ext): 24"	Weight (Net): 1677 lb Volume (Net): 0.43cu.yd
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Job Name: 26-1066 - Gunning Pump Station & Force Main Job Location: Bardstown, KY Contractor: Connhurst, LLC					Plant: 100 6/2/2026 10:54:36 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: A1 (5)											
P1 MH048BA30			MH BASE T/n								
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE F/G - 42" P2) 48" - MH RISER T/G - 60" P1) 48" - MH BASE T/n - 30" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 12" WD x 048" MAC WRAP 2) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 16M DD					0 lb 3200 lb 4192 lb 3255 lb 1440 lb 0 lb 0 lb 16 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS. 4. CASTING SUPPLIED BY OTHERS. 5. ALL PIPE CONNECTORS TO INCLUDE DOUBLE PIPE BANDS. 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: 553.34' Rim to Invert: 11.44' Slack: 0.28" Sump: 2" Step Position:					Structure Total: 12102 lb						
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1	541.9'	0°	0"	12" DI	13"	PSX 16M DD	16"	16.312"	0"	0"	
Invert 2	542'	173°	87.625"	12" PVC SDR35	12.5"	PSX 16M DD	16"	16.312"	1.25"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

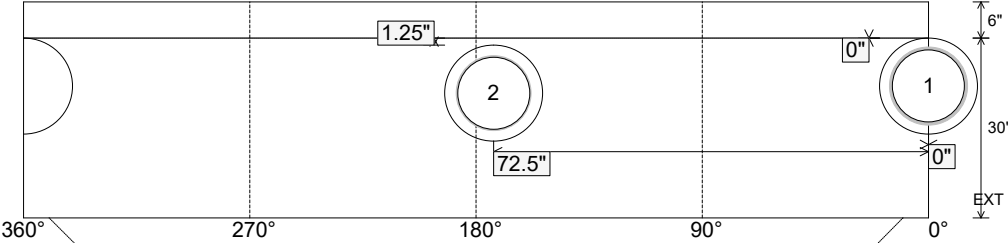
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

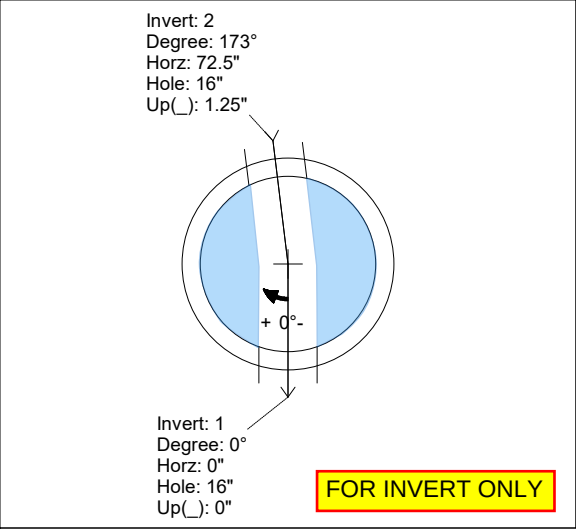


INSIDE WALL DIMENSIONS

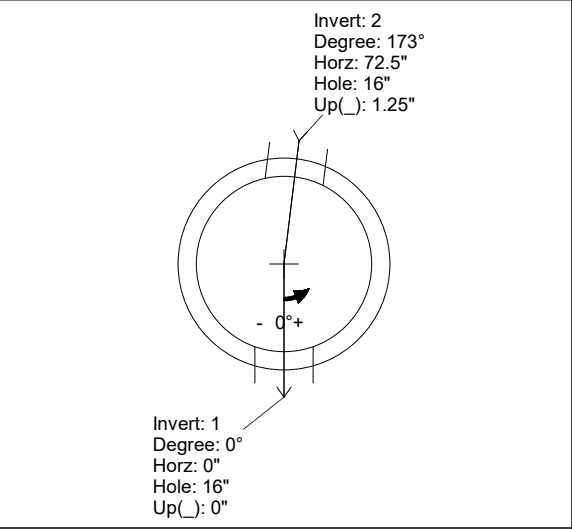


Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 30" Height (Ext): 36"	Weight (Net): 3255 lb Volume (Net): 0.83cu.yd
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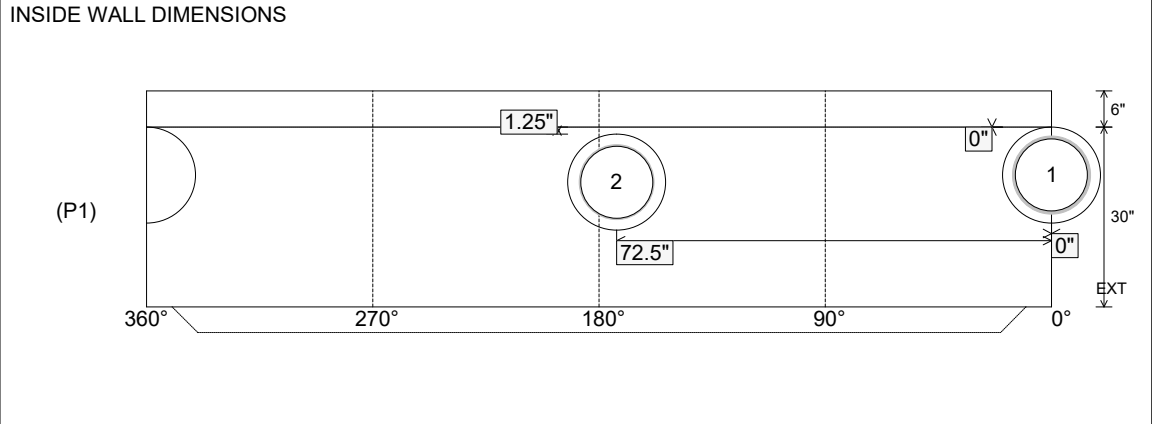
Job Name: 26-1066 - Gunning Pump Station & Force Main Job Location: Bardstown, KY Contractor: Connhurst, LLC					Plant: 100 6/2/2026 10:54:36 AM		Tech: Jared - F PC: E. Bradley				
Structure ID: A1 (5)											
P1 MH048BA30		MH BASE T/n									
P4) 24" - CASTING HEIGHT - 7" P3) 48" - ECC CONE w/ 24" HOLE F/G - 42" P2) 48" - MH RISER T/G - 60" P1) 48" - MH BASE T/n - 30" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 12" WD x 048" MAC WRAP 2) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 16M DD					0 lb 3200 lb 4192 lb 3255 lb 1440 lb 0 lb 0 lb 16 lb ----- Structure Total: 12102 lb		Structure Notes: . 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. NO STEPS. 4. CASTING SUPPLIED BY OTHERS. 5. ALL PIPE CONNECTORS TO INCLUDE DOUBLE PIPE BANDS. 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: 553.34' Rim to Invert: 11.44' Slack: 0.28" Sump: 2" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1	541.9'	0°	0"	12" DI	13"	PSX 16M DD	16"	16.312"	0"	0"	
Invert 2	542'	173°	87.625"	12" PVC SDR35	12.5"	PSX 16M DD	16"	16.312"	1.25"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



RIGHT-SIDE UP VIEW (int. dimensions)



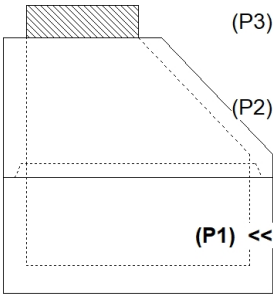
UPSIDE-DOWN VIEW (int. dimensions)



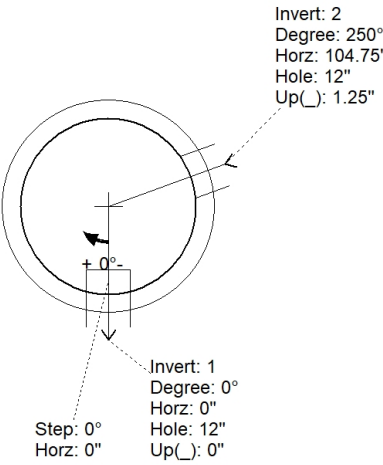
INSIDE WALL DIMENSIONS

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): 3255 lb Volume (Net): 0.83cu.yd
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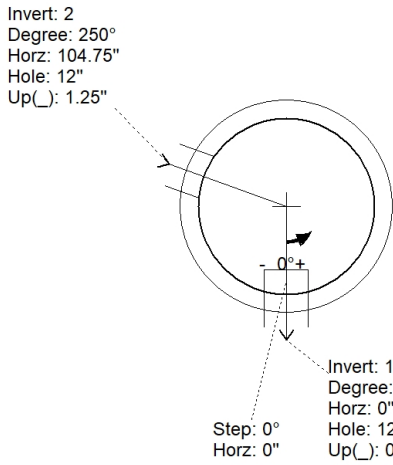
Job Name: 23-2404 Hampton Hills (Phase 1) Job Location: Richmond, KY Contractor: Seven Earthmovers LLC					Plant: 100 5/19/2026 12:59:31 PM		Tech: J. Horsley PC: C. Golf				
Structure ID: SSMH DD-3											
P1 MH048BAVF		MH BASE Custom Ht T/n									
P3) 24" - CASTING HEIGHT - 7" P2) 48" - ECC CONE w/ 24" HOLE F/G - 30" P1) 48" - MH BASE Custom Ht T/n - 19" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) CASTING - HOE MC-350 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 4) MH Step ML-10-TDS-NCR - 10"					0 lb 2050 lb 2562 lb 1440 lb 0 lb 0 lb 305 lb 0 lb 16 lb 0 lb Structure Total: 6373 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: 892.5' Rim to Invert: 4.52' Slack: 0.24" Sump: 2" Step Position: 0°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	887.98'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"	
Invert 2	888.08'	250°	126.5"	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											



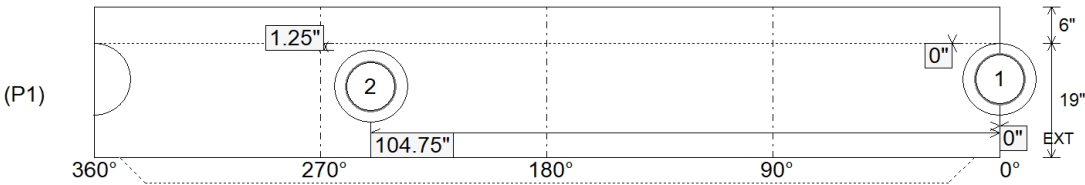
RIGHT-SIDE UP VIEW (int. dimensions)



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): 19" Height (Ext): 25"	Weight (Net): 2562 lb Volume (Net): 0.65cu.yd
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Job Name: 23-2404 Hampton Hills (Phase 1) Job Location: Richmond, KY Contractor: Seven Earthmovers LLC					Plant: 100		Tech: J. Horsley				
					5/19/2026 12:59:31 PM		PC: C. Golf				
Structure ID: SSMH DD-3											
P1A MH048BAVF			MH BASE Custom Ht T/n								
P3) 24" - CASTING HEIGHT - 7" P2) 48" - ECC CONE w/ 24" HOLE F/G - 30" P1) 48" - MH BASE Custom Ht T/n - 19" 1) 48" - MH INVERT CHANNEL - FULL HEIGHT 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) CASTING - HOE MC-350 F/C Sanitary 1) 48" - Conseal CS-102 1.00" (Double) 2) PSX - 12-08 NYLO 4) MH Step ML-10-TDS-NCR - 10"					0 lb 2050 lb 2562 lb 1440 lb 0 lb 0 lb 305 lb 0 lb 16 lb 0 lb ----- Structure Total: 6373 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: 892.5' Rim to Invert: 4.52' Slack: 0.24" Sump: 2" Step Position: 0°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	887.98'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.129"	0"	0"	
Invert 2	888.08'	250°	126.5"	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): 19" Height (Ext): 25"	Weight (Net): 2562 lb Volume (Net): 0.65cu.yd
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Job Name: 25-3452 - Churchill Downs Skye Terrace Improvements

Job Location: Louisville, KY 40208

Contractor: Louisville Paving and Construction

Plant: 100

4/30/2026 1:22:31 PM

Tech: Jared - F

PC: J. Jarvis



Structure ID: S115

P2 MH048RS48S

MH RISER T/G

P4) 32" x 32" - CASTING HEIGHT - 3"

P3) 48" - MH FLAT TOP w/32"x32" Hole F/G - 12"

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

P1) 48" - MH BASE Custom Ht T/n - 40"

1) CASTING - HOE 595 F/G

2) 48" - Conseal CS-102 1.00"

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

1) Hole - 30

1) Hole - 16

1) Hole - 24

0 lb

1629 lb

3267 lb

3611 lb

376 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 8884 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 595 F/G)

REINFORCING PER ASTM A615 (GRADE 60).

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

- RISER/WALLS (As .12)

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

Rim: 454.25'

Rim to Invert: 8.61'

Slack: 0.32"

Sump: 0"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1										
Invert 2	450.92'	101°	51.125"	12" HDPE	14.5"	Hole 16	16"	16.312"	17.875"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

(P4)

(P3)

(P2) <<

(P1)

RIGHT-SIDE UP VIEW (int. dimensions)

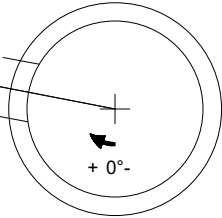
Invert: 2

Degree: 101°

Horz: 42.25"

Hole: 16"

Up(): 17.875"



INSIDE WALL DIMENSIONS

0°

90°

180°

270°

360°

42.25"

17.875"

EXT

48"

(P2)

2

Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: Groove

Wall Thickness: 5"

Floor Height: 0"

Height (Int): 48"

Height (Ext): 48"

Weight (Net): 3267 lb

Volume (Net): 0.84cu.yd

Job Name: 25-3452 - Churchill Downs Skye Terrace Improvements
Job Location: Louisville, KY 40208
Contractor: Louisville Paving and Construction

Plant: 100

4/30/2026 1:21:43 PM

Tech: Jared - F

PC: J. Jarvis



Structure ID: S112

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 - 56"
1) CASTING - HOE MC-420 F/C Storm
1) 48" - Conseal CS-102 1.00"
2) Hole - 24"
8) MH Step ML-10-TDS-NCR - 10"

0 lb
3000 lb
4848 lb
340 lb
0 lb
0 lb
0 lb

Structure Total: 8188 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. NO INVERT CHANNEL.
4. CASTING BY ICAST (HOE MC-420 F/C STORM)

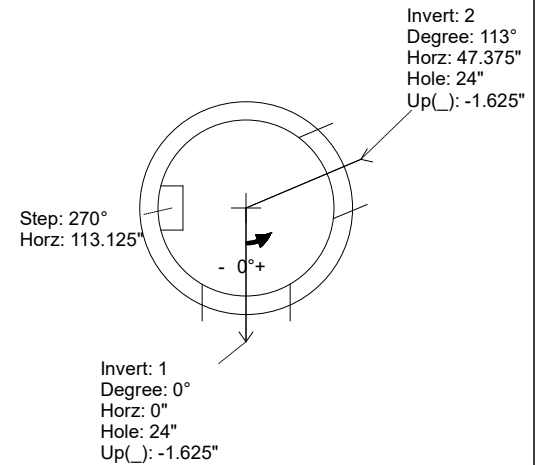
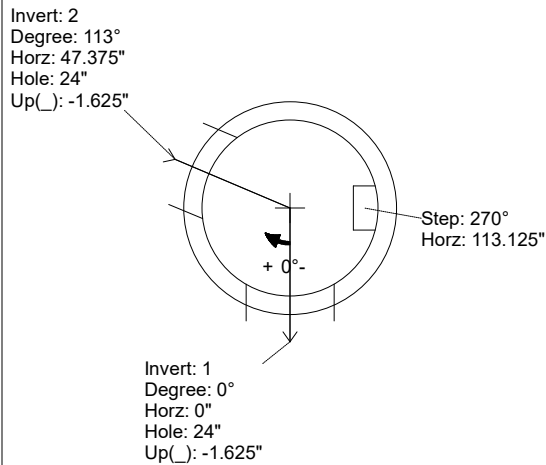
REINFORCING PER ASTM A615 (GRADE 60).
- CONE (As .12)
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 454.68' Rim to Invert: 8.33' Slack: 0.96" Sump: 0" Step Position: 270°

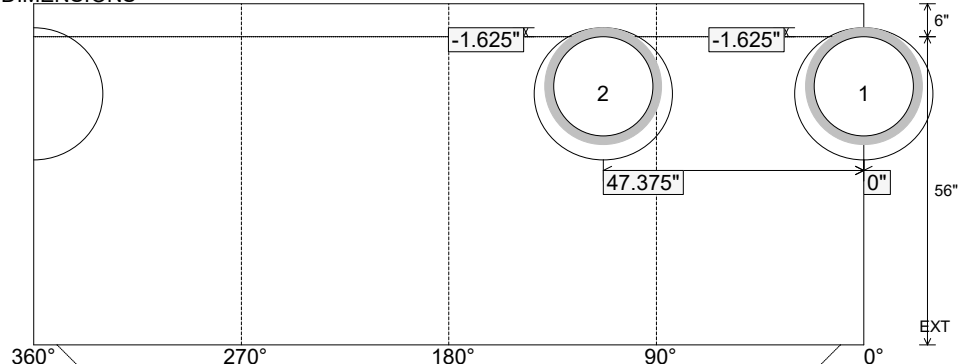
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	446.35'	0°	0"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"
Invert 2	446.35'	113°	57.25"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 56"
Height (Ext): 62"

Weight (Net): 4848 lb
Volume (Net): 1.24cu.yd

Job Name: 25-3452 - Churchill Downs Skye Terrace Improvements
Job Location: Louisville, KY 40208
Contractor: Louisville Paving and Construction

Plant: 100

4/30/2026 1:21:43 PM

Tech: Jared - F

PC: J. Jarvis



Structure ID: S111

P1 MH048BAVF

MH BASE Custom Ht T/n

- P3) 32" x 32" - CASTING HEIGHT - 3"
P2) 48" - MH FLAT TOP w/32"x32" Hole F/G - 12"
P1) 48" - MH BASE Custom Ht T/n - 71"
1) CASTING - HOE 595 F/G
1) 48" - Conseal CS-102 1.00"
1) 32" x 32" - Conseal CS-102 1.00"
2) Hole - 24

0 lb
1629 lb
5896 lb
376 lb
0 lb
0 lb
0 lb

Structure Total: 7901 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 595 F/G)

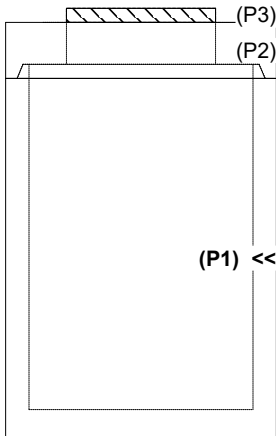
REINFORCING PER ASTM A615 (GRADE 60).
- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W..
- RISER/WALLS (As .12)
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

Rim: 453.75' Rim to Invert: 7.23' Slack: 0.76" Sump: 0" Step Position:

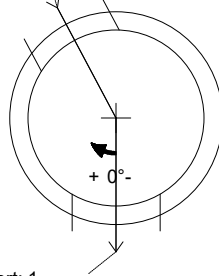
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	446.52'	0°	0"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"
Invert 2	446.52'	152°	76.875"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)

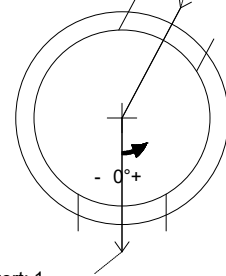


Invert: 2
Degree: 152°
Horz: 63.625"
Hole: 24"
Up(): -1.625"



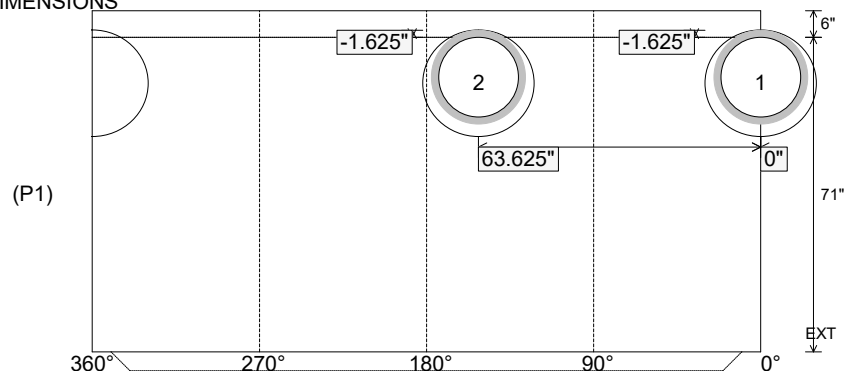
Invert: 1
Degree: 0°
Horz: 0"
Hole: 24"
Up(): -1.625"

Invert: 2
Degree: 152°
Horz: 63.625"
Hole: 24"
Up(): -1.625"



Invert: 1
Degree: 0°
Horz: 0"
Hole: 24"
Up(): -1.625"

INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: n/a

Wall Thickness: 5"
Floor Height: 6"

Height (Int): 71"
Height (Ext): 77"

Weight (Net): 5896 lb
Volume (Net): 1.51cu.yd

Job Name: 25-3452 - Churchill Downs Skye Terrace Improvements
Job Location: Louisville, KY 40208
Contractor: Louisville Paving and Construction

Plant: 100

4/30/2026 1:22:58 PM

Tech: Jared - F

PC: J. Jarvis



Structure ID: S111

P2 MH048LD12S

MH FLAT TOP w/32"x32" Hole F/G

P3) 32" x 32" - CASTING HEIGHT - 3"
P2) 48" - MH FLAT TOP w/32"x32" Hole F/G - 12"
P1) 48" - MH BASE Custom Ht T/n - 71"
1) CASTING - HOE 595 F/G
1) 48" - Conseal CS-102 1.00"
1) 32" x 32" - Conseal CS-102 1.00"
2) Hole - 24

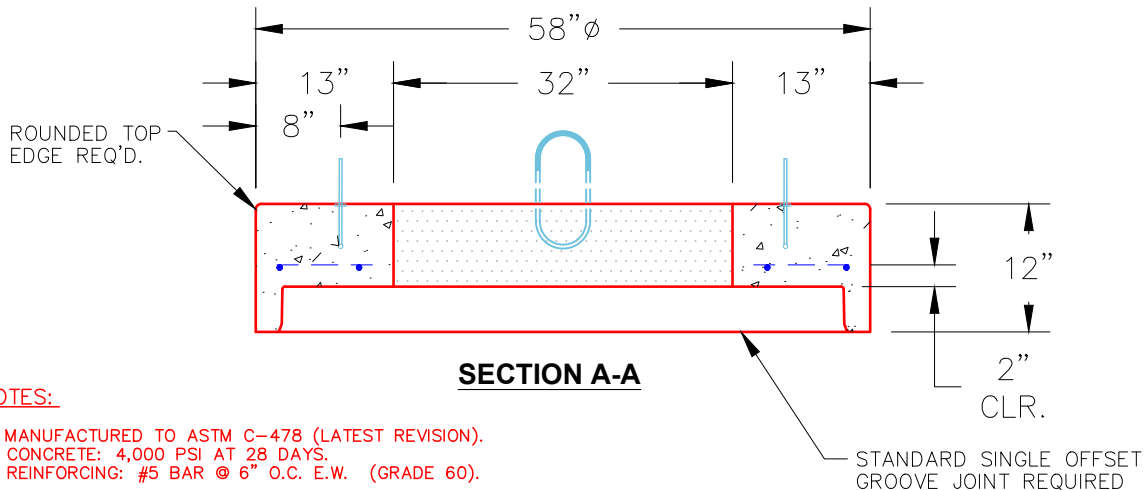
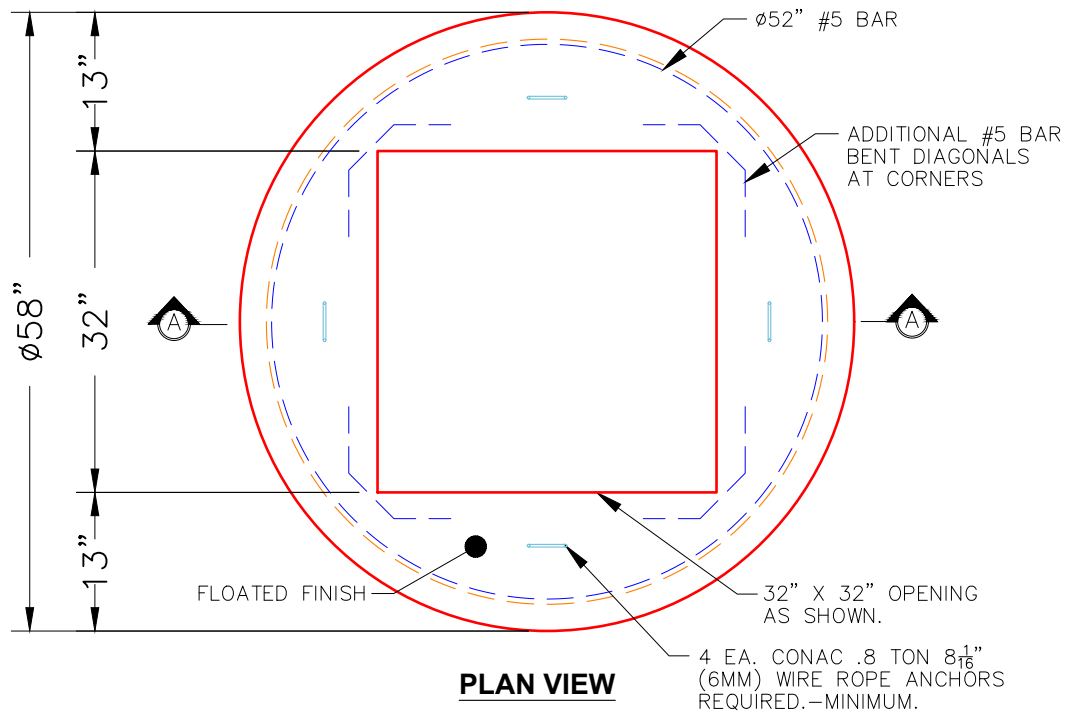
0 lb
1629 lb
5896 lb
376 lb
0 lb
0 lb
0 lb

Structure Total: 7901 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 595 F/G)

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



NOTES:

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

Coating (Int):
Coating (Ext):

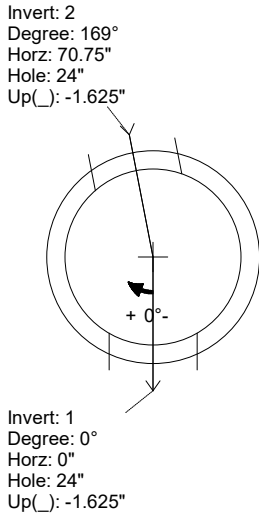
Seam Up: Flat
Seam Dn: Groove

Wall Thickness: 5"

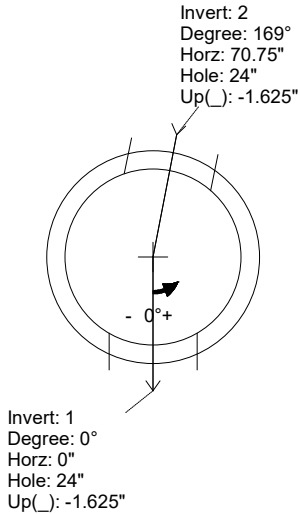
Height (Ext): 12"

Weight (Net): 1629 lb
Volume (Net): 0.42cu.yd

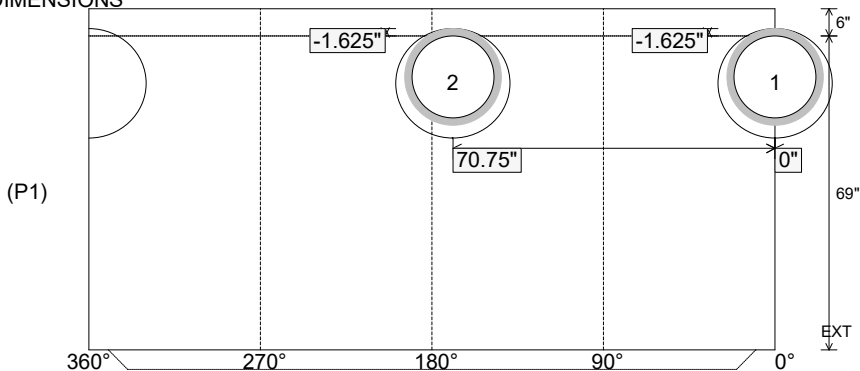
Job Name: 25-3452 - Churchill Downs Skye Terrace Improvements Job Location: Louisville, KY 40208 Contractor: Louisville Paving and Construction					Plant: 100 4/30/2026 1:21:42 PM		Tech: Jared - F PC: J. Jarvis				
Structure ID: S110											
P1 MH048BAVF		MH BASE Custom Ht T/n									
P3) 32" x 32" - CASTING HEIGHT - 3" P2) 48" - MH FLAT TOP w/32"x32" Hole F/G - 12" P1) 48" - MH BASE Custom Ht T/n - 69" 1) CASTING - HOE 595 F/G 1) 48" - Conseal CS-102 1.00" 1) 32" x 32" - Conseal CS-102 1.00" 2) Hole - 24					0 lb 1629 lb 5756 lb 376 lb 0 lb 0 lb 0 lb ----- Structure Total: 7761 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 595 F/G) REINFORCING PER ASTM A615 (GRADE 60). - TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.. - RISER/WALLS (As .12) - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.				
Rim: 453.75' Rim to Invert: 7.03' Slack: 0.36" Sump: 0" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	446.72'	0°	0"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"	
Invert 2	446.72'	169°	85.5"	18" HDPE	21.2"	Hole 24	24"	25.133"	-1.625"	0"	
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											



RIGHT-SIDE UP VIEW (int. dimensions)



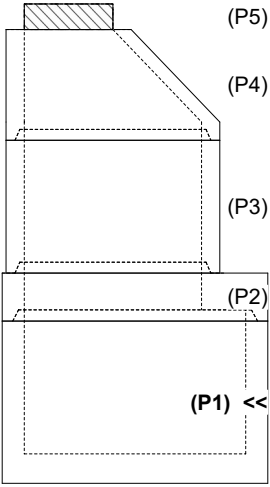
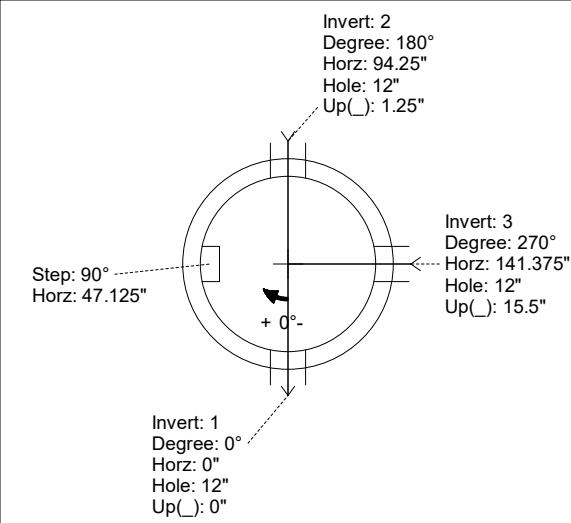
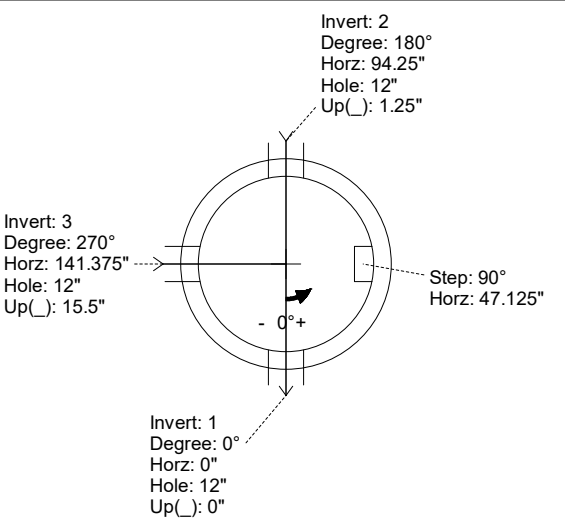
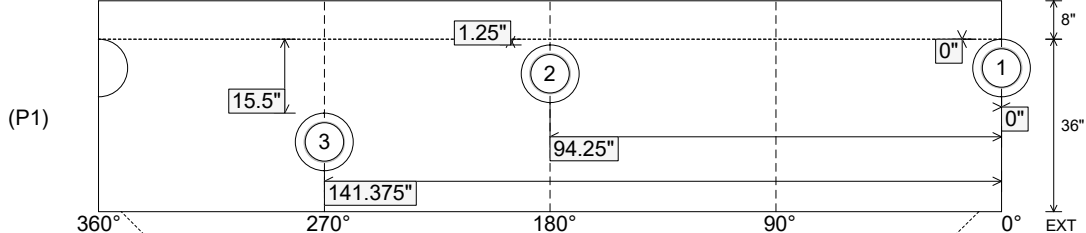
UPSIDE-DOWN VIEW (int. dimensions)



INSIDE WALL DIMENSIONS

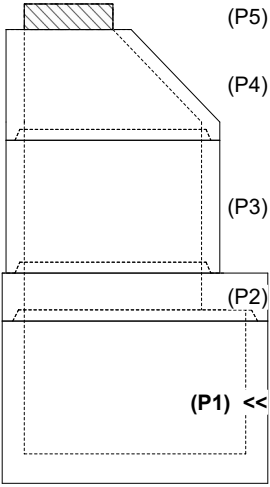
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 5" Floor Height: 6"	Height (Int): 69" Height (Ext): 75"	Weight (Net): 5756 lb Volume (Net): 1.47cu.yd
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Job Name: 26-1038 - Perryville & Junction City WW Improvements Job Location: Danville, KY Contractor: Connhurst, LLC					Plant: 100 4/27/2026 3:57:15 PM		Tech: Jared - A PC: E. Bradley			
Structure ID: 61038 (8)										
P1 MH060BA36			MH BASE T/n							
P5) 24" - CASTING HEIGHT - 7" P4) 48" - ECC CONE w/ 24" HOLE F/G - 30" P3) 48" - MH RISER T/G - 36" P2) 60" - MH Transition Slab 48" Hole T/G - 13" P1) 60" - MH BASE T/n - 36" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) CASTING - HOE MC-315 F/C Sanitary 1) 60" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 3) PSX - 12-08 NYLO 9) MH Step ML-10-TDS-NCR - 10"					0 lb 2050 lb 2515 lb 1928 lb 6320 lb 0 lb 0 lb 2692 lb 258 lb 0 lb 0 lb 24 lb 0 lb ----- Structure Total: 15786 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL REQUIRED 5. STEPS AT 90 DEGREES 6. HOE MC-315 FRAME & COVER "SANITARY" SUPPLIED BY ICAST			
Rim: 962.94' Rim to Invert: 10.04' Slack: 0.48" Sump: 2" Step Position: 90°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	952.9'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.081"	0"	0"
Invert 2	953'	180°	113.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.081"	1.25"	0"
Invert 3	954.19'	270°	169.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.081"	15.5"	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				
				

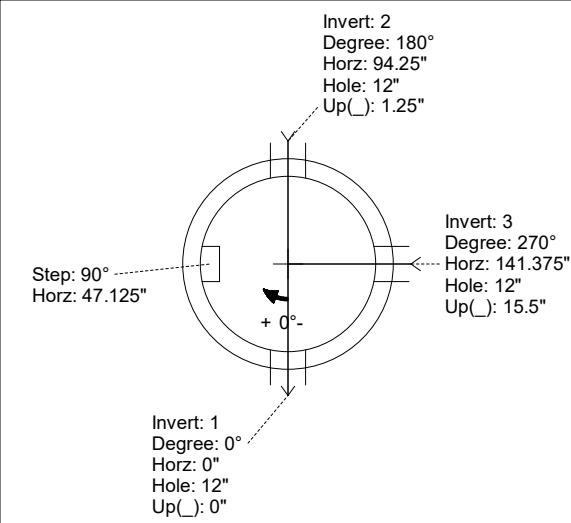
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 36" Height (Ext): 44"	Weight (Net): 6320 lb Volume (Net): 1.61cu.yd
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Job Name: 26-1038 - Perryville & Junction City WW Improvements Job Location: Danville, KY Contractor: Connhurst, LLC					Plant: 100 4/27/2026 3:57:15 PM		Tech: Jared - A PC: E. Bradley			
Structure ID: 61038 (8)										
P1 MH060BA36		MH BASE T/n								
P5) 24" - CASTING HEIGHT - 7" P4) 48" - ECC CONE w/ 24" HOLE F/G - 30" P3) 48" - MH RISER T/G - 36" P2) 60" - MH Transition Slab 48" Hole T/G - 13" P1) 60" - MH BASE T/n - 36" 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.) 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) CASTING - HOE MC-315 F/C Sanitary 1) 60" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 3) PSX - 12-08 NYLO 9) MH Step ML-10-TDS-NCR - 10"					0 lb 2050 lb 2515 lb 1928 lb 6320 lb 0 lb 0 lb 2692 lb 258 lb 0 lb 0 lb 24 lb 0 lb ----- 15786 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: PER ASTM A615 4. INVERT CHANNEL REQUIRED 5. STEPS AT 90 DEGREES 6. HOE MC-315 FRAME & COVER "SANITARY" SUPPLIED BY ICAST			
Rim: 962.94' Rim to Invert: 10.04' Slack: 0.48" Sump: 2" Step Position: 90°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	952.9'	0°	0"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.081"	0"	0"
Invert 2	953'	180°	113.125"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.081"	1.25"	0"
Invert 3	954.19'	270°	169.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.081"	15.5"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



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

RIGHT-SIDE UP VIEW (int. dimensions)



Invert: 2
Degree: 180°
Horz: 94.25"
Hole: 12"
Up(): 1.25"

Step: 90°
Horz: 47.125"

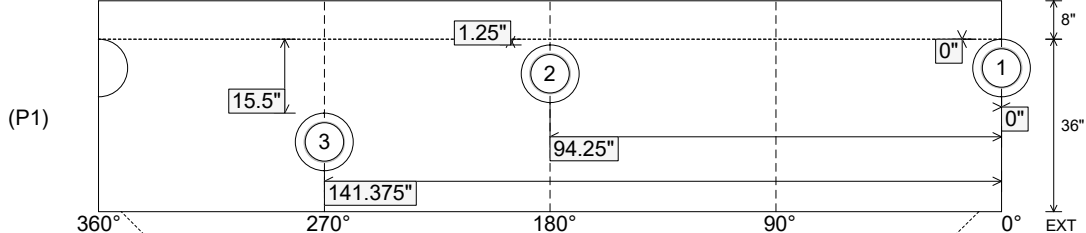
Invert: 3
Degree: 270°
Horz: 141.375"
Hole: 12"
Up(): 15.5"

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

UPSIDE-DOWN VIEW (int. dimensions)

INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



(P1)

1.25"
15.5"
141.375"
94.25"
0"
0"
360° 270° 180° 90° 0° EXT

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 36" Height (Ext): 44"	Weight (Net): 6320 lb Volume (Net): 1.61cu.yd
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Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2 Job Location: Danville, KY Contractor: Hubert Excavating & Contracting				Plant: 100 6/7/2026 1:24:51 PM		Tech: J. Horsley PC: C. Goff				
Structure ID: MH A14										
P1 MH060BAEVF				MH BASE w/FLANGE (08F/07EF) w/Coating T/n						
P5) 24" - CASTING HEIGHT - 7" P4) 24" - GRADE RING F/F - 6" P3) 48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42" 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 - 72" 1) JOINT WRAP - 12" WD x 060" MAC WRAP 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) JOINT WRAP - 12" WD x 048" MAC WRAP 1) SECONDARY POUR - Extended Flange 1) 60" - Conseal CS-102 1.00" (Double) 1) 48" - Conseal CS-102 1.00" (Double) 2) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 1) PSX - 12-08 NYLO 10) MH Step ML-10-TDS-NCR - 10" 220.64 SqFt) Carboline Bitumastic 300M [EXT]				0 lb 405 lb 3116 lb 1928 lb 10426 lb 0 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 0 lb 2 lb 8 lb 0 lb 0 lb Structure Total: 18577 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 90 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS				
Rim: 901.5' Rim to Invert: 11.495' Slack: 0.155" Sump: 2.215" Step Position: 90°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	890.005'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"
Invert 2	890.055'	180°	113.125"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"
Invert 3	891.86'	270°	169.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.081"	22.5"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

DRILL & DOWEL #5 BAR @ 8" C.C. E.W. (GRADE 60) OUT OF BASE FLOOR FOR FLANGE POUR TIE-IN - MIN. 4" PENETRATION INTO BASE FLOOR & 2" MIN. REBAR CLEARANCE (TYP)

RIGHT-SIDE UP VIEW (int. dimensions)

FIRST POUR (BASE): 9,259 LBS

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

UPSIDE-DOWN VIEW (int. dimensions)

Invert: 2
Degree: 180°
Horz: 94.25"
Hole: 33.5"
Up(): 0.625"

Invert: 3
Degree: 270°
Horz: 141.375"
Hole: 12"
Up(): 22.5"

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

Step: 90°
Horz: 47.125"

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): 72" Height (Ext): 80"	Weight (Net): 10426 lb Volume (Net): 2.66cu.yd
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Job Name: 25-3579 - Lebanon Rd Clarks Run Trunk Sewer Ph 2 Job Location: Danville, KY Contractor: Hubert Excavating & Contracting				Plant: 100 6/7/2026 1:24:51 PM		Tech: J. Horsley PC: C. Goff						
Structure ID: MH A14												
P1 MH060BAEVF				MH BASE w/FLANGE (08F/07EF) w/Coating T/n								
P5) 24" - CASTING HEIGHT - 7" P4) 24" - GRADE RING F/F - 6" P3) 48" - ECC CONE w/ 24" HOLE, w/Coating F/G - 42" 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 - 72" 1) JOINT WRAP - 12" WD x 060" MAC WRAP 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) SPECIAL EXTERNAL COATING - Carboline 300M 1) JOINT WRAP - 12" WD x 048" MAC WRAP 1) SECONDARY POUR - Extended Flange 1) 60" - Conseal CS-102 1.00" (Double) 1) 48" - Conseal CS-102 1.00" (Double) 2) 24" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1040 1) PSX - 12-08 NYLO 10) MH Step ML-10-TDS-NCR - 10" 220.64 SqFt) Carboline Bitumastic 300M [EXT]						0 lb 405 lb 3116 lb 1928 lb 10426 lb 0 lb 2692 lb 0 lb 0 lb 0 lb 0 lb 0 lb 2 lb 8 lb 0 lb 0 lb Structure Total: 18577 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. REINFORCEMENT: - WALLS: PER ASTM A615 - FLOOR: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. CARBOLINE 300M EXTERIOR COATING REQUIRED 6. STEPS AT 90 DEGREES 7. HOE MC-375 FRAME & COVER "SANITARY" SUPPLIED BY OTHERS				
Rim: 901.5' Rim to Invert: 11.495' Slack: 0.155' Sump: 2.215' Step Position: 90°												
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset		
Invert 1	890.005'	0°	0"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0"	0"		
Invert 2	890.055'	180°	113.125"	30" PVC F679 (PS115)	32"	A-Lok 1040	33.5"	35.543"	0.625"	0"		
Invert 3	891.86'	270°	169.625"	8" PVC SDR35	8.5"	PSX 12-08 NYLO	12"	12.081"	22.5"	0"		
Invert 4												
Invert 5												
Invert 6												
Invert 7												
Invert 8												

RIGHT-SIDE UP VIEW (int. dimensions)

Upside-Down View (int. dimensions)

INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS

Coating (Int): Coating (Ext): Carboline Bitumastic 300M	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 8"	Height (Int): 72" Height (Ext): 80"	Weight (Net): 10426 lb Volume (Net): 2.66cu.yd
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Job Number:

25-3579

Job Name:

Lebanon Rd Clarks Run Trunk Sewer
Ph 2

Structure:

MH A14

Note:

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



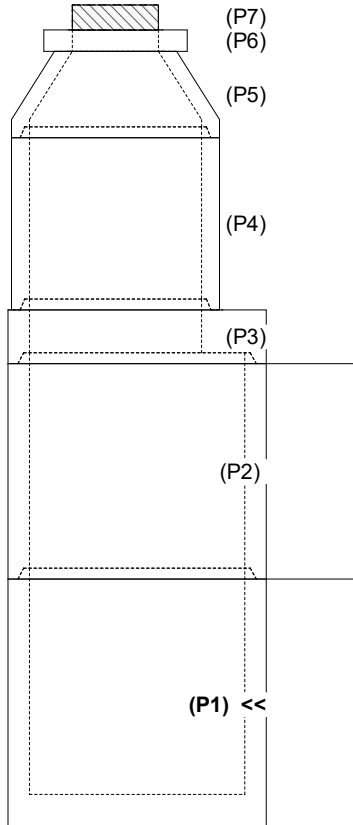
Weight (Net): 11306 lb
Volume (Net): 2.89cu.yd

Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements Job Location: Fort Mitchell, KY 41017 Contractor: Lykins Contracting					Plant: 100 3/20/2026 1:21:20 PM		Tech: J. Horsley - A PC: Celina Goff				
Structure ID: 2301540											
P1		MH060DPVF		MH BASE (10"F) w/DROP Custom Ht T/n							
P7) 24" - CASTING HEIGHT - 7" P6) 24" - GRADE RING F/F - 6" P5) 48" - CON CONE w/24" HOLE F/G - 24" P4) 48" - MH RISER T/G - 48" P3) 60" - MH Transition Slab 48" Hole T/G - 15" P2) 60" - MH RISER w/DROP T/G - 60" P1) 60" - MH BASE (10"F) w/DROP Custom Ht T/n - 60" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) SECONDARY POUR - Add Exterior Drop to Base (P1) 1) SECONDARY POUR - Add Exterior Drop to Riser (P2) 2) 60" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 1) Drop Tee - 8" PVC 1) Drop Elbow - 8" PVC 16) MH Step ML-10-TDS-NCR - 10"					0 lb 405 lb 2252 lb 3353 lb 2204 lb 6235 lb 11306 lb 2692 lb 3010 lb 2580 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 lb 0 lb		Structure Notes: 1. PER ASTM C-478 SPECIFICATIONS 2. CONCRETE: 4,000 PSI AT 28 DAYS 3. EXTERIOR DROP REINFORCEMENT: DRILL & STUB #4 BAR @ 12" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) 4. INVERT CHANNEL REQUIRED 5. STEPS AT 90 DEGREES 6. 7" CASTING SUPPLIED BY OTHERS 7. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST 8. ADD 8" SDR 35 DROP & ELBOW AT INVERT 4 (266°)				
					Structure Total:		34039 lb		FIRST POUR (BASE): 11,306 LBS SECOND POUR (DROP): 3,010 LBS		
Rim: 751.8'		Rim to Invert: 18.21'		Slack: 1.52"		Sump: 3"		Step Position: 90°			
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (")	Offset	
Invert 1	733.59'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"	
Invert 2	733.69'	180°	113.125"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"	
Invert 3											
Invert 4	735.39'	266°	167.125"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.529"	24.375"	0"	
Invert 5											
Invert 6											
Invert 7											
Invert 8											

Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 10"	Height (Int): 60" Height (Ext): 70"	Weight (Net): 11306 lb Volume (Net): 2.89cu.yd
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Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements Job Location: Fort Mitchell, KY 41017 Contractor: Lykins Contracting					Plant: 100 3/20/2026 1:21:20 PM		Tech: J. Horsley - A PC: Celina Goff			
Structure ID: 2301540										
P1 MH060DPVF			MH BASE (10"F) w/DROP Custom Ht T/n							
P7) 24" - CASTING HEIGHT - 7" P6) 24" - GRADE RING F/F - 6" P5) 48" - CON CONE w/24" HOLE F/G - 24" P4) 48" - MH RISER T/G - 48" P3) 60" - MH Transition Slab 48" Hole T/G - 15" P2) 60" - MH RISER w/DROP T/G - 60" P1) 60" - MH BASE (10"F) w/DROP Custom Ht T/n - 60" 1) 60" - MH INVERT CHANNEL - FULL HEIGHT 1) SECONDARY POUR - Add Exterior Drop to Base (P1) 1) SECONDARY POUR - Add Exterior Drop to Riser (P2) 2) 60" - Conseal CS-102 1.00" (Double) 2) 48" - Conseal CS-102 1.00" (Double) 2) A-Lok - 1235 1) Drop Tee - 8" PVC 1) Drop Elbow - 8" PVC 16) MH Step ML-10-TDS-NCR - 10"					0 lb 405 lb 2252 lb 3353 lb 2204 lb 6235 lb 11306 lb 2692 lb 3010 lb 2580 lb 0 lb 0 lb 2 lb 0 lb 0 lb 0 lb 0 lb 0 lb 34039 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 90 DEGREES 6. 7" CASTING SUPPLIED BY OTHERS 7. EXTERIOR DROP AT INVERTS 3 & 4 SUPPLIED BY ICAST			
Rim: 751.8' Rim to Invert: 18.21' Slack: 1.52" Sump: 3" Step Position: 90°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	733.59'	0°	0"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	1.125"	0"
Invert 2	733.69'	180°	113.125"	36" PVC SDR35/F679	38.3"	A-Lok 1235	39.88"	43.623"	2.25"	0"
Invert 3										
Invert 4	735.39'	266°	167.125"	8" PVC SDR35	8.5"	Drop Elbow 8" PVC	8.5"	8.529"	24.375"	0"
Invert 5										
Invert 6										
Invert 7										
Invert 8										

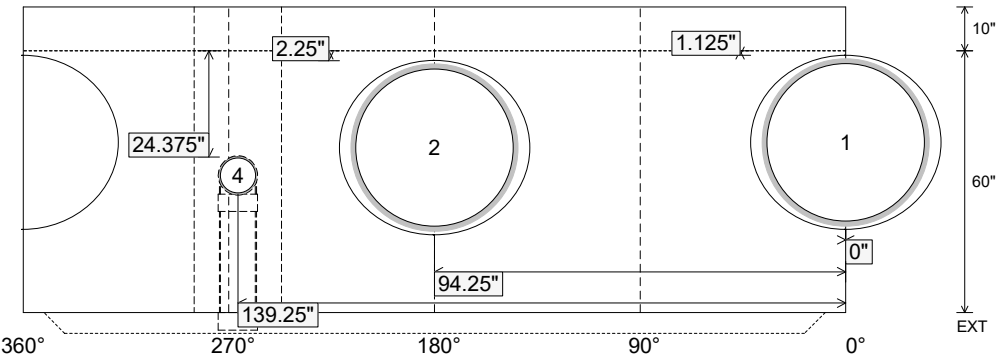
RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)

INVERT CHANNEL DRAWING

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: n/a	Wall Thickness: 6" Floor Height: 10"	Height (Int): 60" Height (Ext): 70"	Weight (Net): 11306 lb Volume (Net): 2.89cu.yd
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Job Name: 25-3118 - W6 Ph 2-C Force Main Improvements
Job Location: Fort Mitchell, KY 41017
Contractor: Lykins Contracting

Plant: 100

3/27/2026 11:40:10 AM

Tech: J. Horsley - A

PC: Celina Goff



Structure ID: 2301548

P2 MH060TS15-48ECC

MH Transition Slab 48" Hole T/G

P5) 24" - CASTING HEIGHT - 7"
P4) 48" - CON CONE w/24" HOLE F/G - 24"
P3) 48" - MH RISER T/G - 36"
P2) 60" - MH Transition Slab 48" Hole T/G - 15"
P1) 60" - MH BASE Custom Ht T/n - 63"
1) 60" - MH INVERT CHANNEL - FULL HEIGHT
1) 60" - Conseal CS-102 1.00" (Double)
2) 48" - Conseal CS-102 1.00" (Double)
2) A-Lok - 1235
10) MH Step ML-10-TDS-NCR - 10"

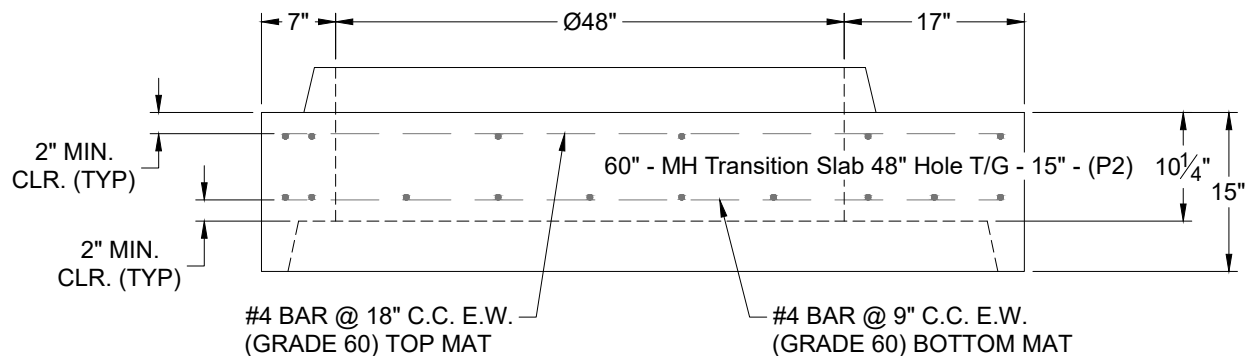
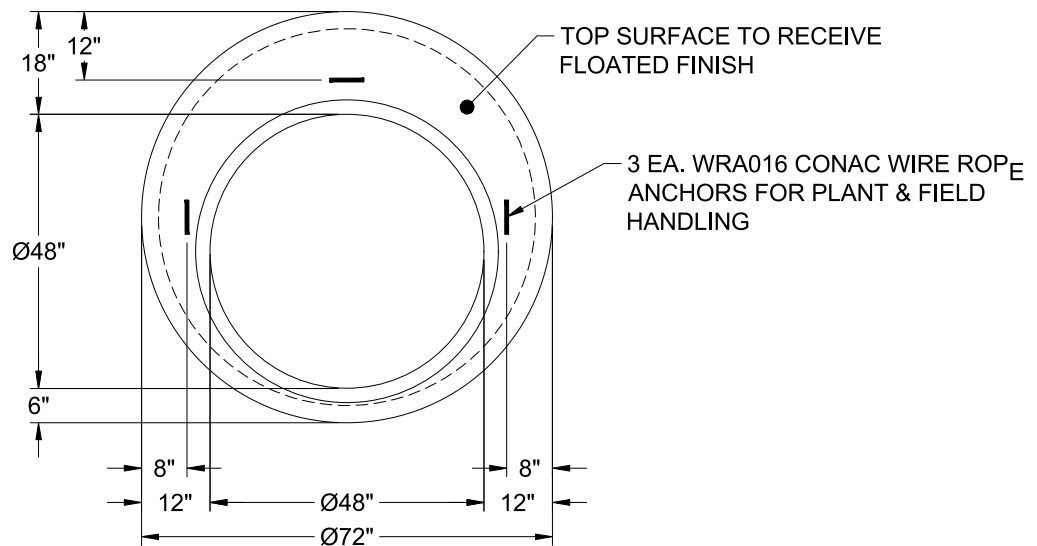
Structure Total:

0 lb
2252 lb
2515 lb
2204 lb
7955 lb
2692 lb
0 lb
0 lb
2 lb
0 lb

17621 lb

Structure Notes:

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



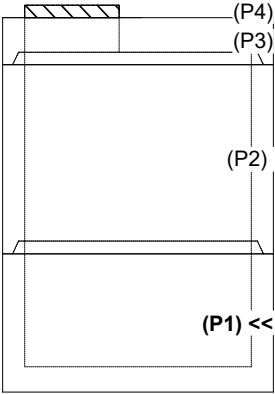
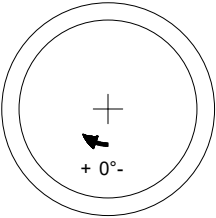
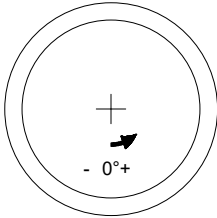
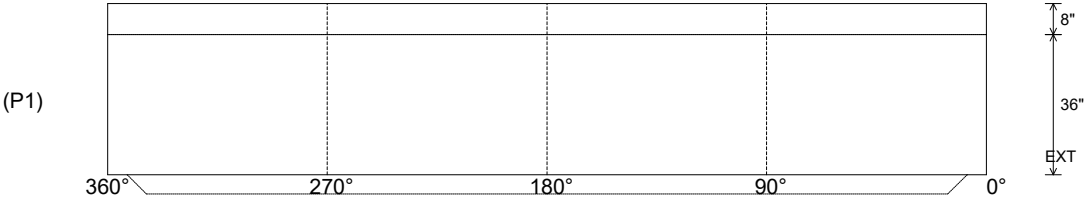
Coating (Int):
Coating (Ext):

Seam Up: Tongue
Seam Dn: Groove

Wall Thickness: 6"

Height (Ext): 15"

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

Job Name: 26-2582 - 739729 Teal Drive Job Location: Nashville, TN Contractor: Contech Engineering Solutions					Plant: Beaver Dam 6/16/2026 1:01:31 PM		Tech: J. Coppage PC: T. Sekula				
Structure ID: 15-CS-6											
P1 MH072BA36			MH BASE T/n								
P4) 30" - CASTING HEIGHT - 4" P3) 72" - MH FLAT TOP SPEC. (30" ECC HOLE) F/G - 15" P2) 72" - MH RISER T/G - 60" P1) 72" - MH BASE T/n - 36" 1) CVSTENCILING 1) ASSEMBLY REQUIRED 2) 72" - Conseal CS-102 1.00" 2) Hole - 36"						0 lb 4661 lb 7504 lb 9148 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- 21312 lb		Structure Notes: SITE DESIGNATION: STM A2 (4" TALL CASTING PROVIDED BY OTHERS) ICAST TO INSTALL THE INTERNALS BASE TO BE MECHANICALLY ATTACHED TO THE BOTTOM OF THE CONTROL RISER CONTECH'S LOGO AS WELL AS THE INLET AND THE OUTLET MUST BE STENBCILED ONTO THE STRUCTURE			
Rim: 470.12' Rim to Invert: 5.08' Slack: 5.96" Sump: 60" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
 RIGHT-SIDE UP VIEW (int. dimensions)  UPSIDE-DOWN VIEW (int. dimenions)  INSIDE WALL DIMENSIONS 											
Coating (Int): Coating (Ext):			Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 7" Floor Height: 8"		Height (Int): 36" Height (Ext): 44"		Weight (Net): 9148 lb Volume (Net): 2.34cu.yd		

Job Name: 26-2582 - 739729 Teal Drive
Job Location: Nashville, TN
Contractor: Contech Engineering Solutions

Plant: Beaver Dam
6/16/2026 1:01:44 PM

Tech: J. Coppage
PC: T. Sekula



Structure ID: 15-CS-6

P3 MH072LD15-30ECC

MH FLAT TOP SPEC. (30" ECC HOLE) F/G

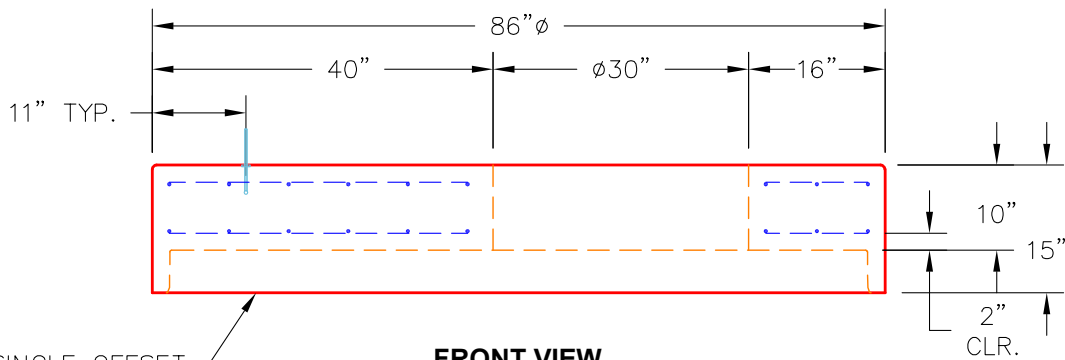
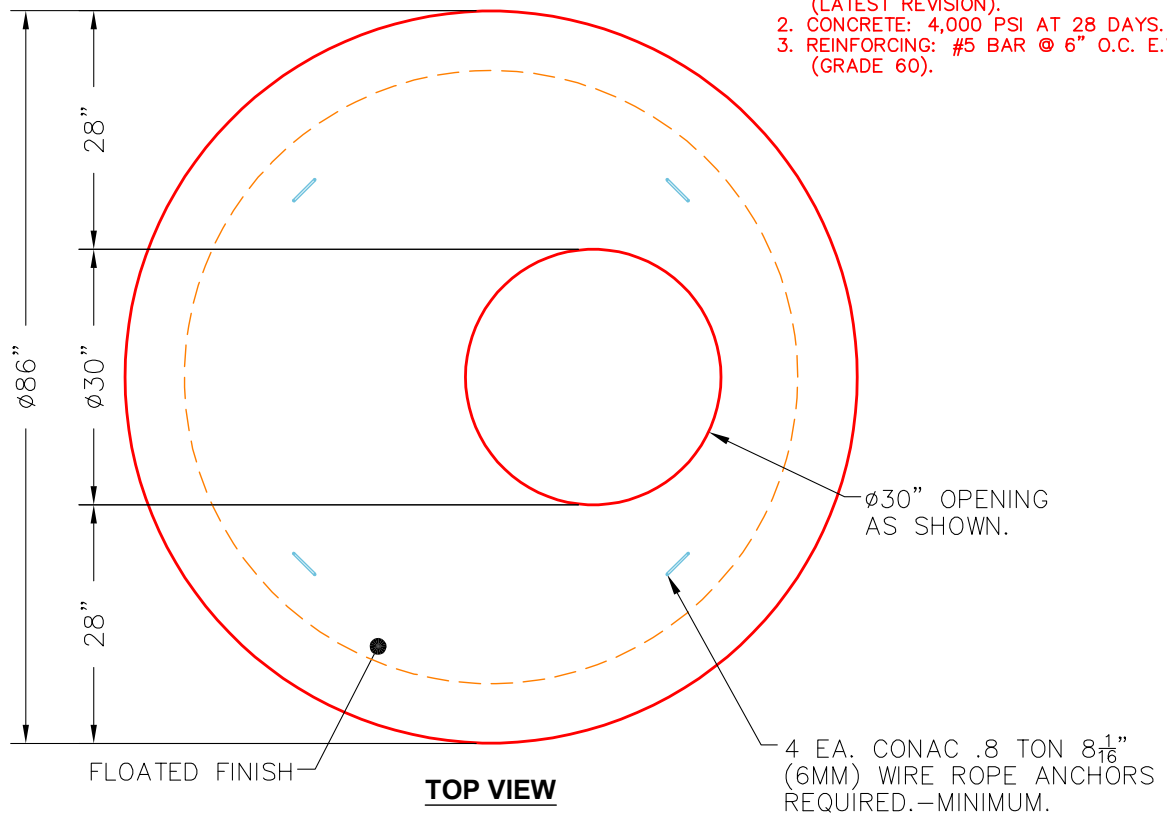
P4) 30" - CASTING HEIGHT - 4"
P3) 72" - MH FLAT TOP SPEC. (30" ECC HOLE) F/G - 15"
P2) 72" - MH RISER T/G - 60"
P1) 72" - MH BASE T/n - 36"
1) CVSTENCILING
1) ASSEMBLY REQUIRED
2) 72" - Con Seal CS-102 1.00"
2) Hole - 36

0 lb
4661 lb
7504 lb
9148 lb
0 lb
0 lb
0 lb
0 lb
0 lb
Structure Total: 21312 lb

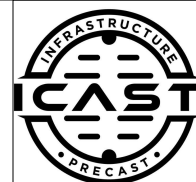
Structure Notes:
SITE DESIGNATION: STM A2
(4" TALL CASTING PROVIDED BY OTHERS)
ICAST TO INSTALL THE INTERNALS
BASE TO BE MECHANICALLY ATTACHED TO THE BOTTOM OF THE CONTROL RISER
CONTECH'S LOGO AS WELL AS THE INLET AND THE OUTLET MUST BE STENBCILED ONTO THE STRUCTURE

NOTES:

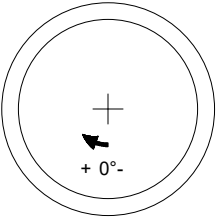
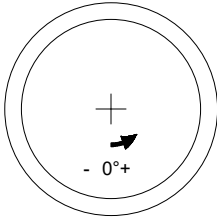
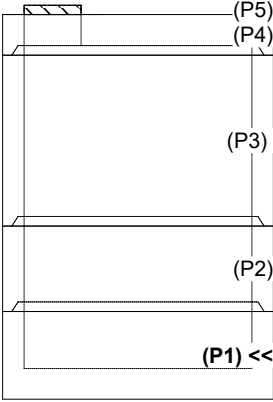
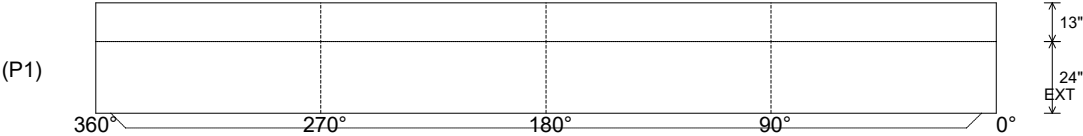
1. MANUFACTURED TO ASTM C-478 (LATEST REVISION).
2. CONCRETE: 4,000 PSI AT 28 DAYS.
3. REINFORCING: #5 BAR @ 6" O.C. E.W. (GRADE 60).



Coating (Int): Coating (Ext):	Seam Up: Flat Seam Dn: Groove	Wall Thickness: 7"	Height (Ext): 15"	Weight (Net): 4661 lb Volume (Net): 1.19cu.yd
----------------------------------	----------------------------------	--------------------	-------------------	--



Weight (Net): 5512 lb
Volume (Net): 1.41cu.yd

Job Name: 26-2582 - 739729 Teal Drive Job Location: Nashville, TN Contractor: Contech Engineering Solutions					Plant: Beaver Dam 6/16/2026 1:01:30 PM		Tech: J. Coppage PC: T. Sekula				
Structure ID: 10-CS-8											
P1 MH096BAVF			MH MONOBASE 13F, Custom Ht T/n								
P5) 24" - CASTING HEIGHT - 4" P4) 96" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 17" P3) 96" - MH RISER T/G - 72" P2) 96" - MH RISER T/G - 36" P1) 96" - MH MONOBASE 13F, Custom Ht T/n - 24" 1) ASSEMBLY REQUIRED 1) CVSTENCILING 3) 96" - Conseal CS-102 1.00" 1) 24" - Conseal CS-102 1.00" 2) Hole - 42					0 lb 10015 lb 15782 lb 8968 lb 17113 lb 0 lb 0 lb 0 lb 0 lb 0 lb ----- Structure Total: 51879 lb		Structure Notes: SITE DESIGNATION: STM-C2 (4" TALL CASTING PROVIDED BY OTHERS) CONTROL RISER TO BE MECHANICALLY ATTACHED TO THE BOTTOM OF THE 72" TALL RISER. ICAST TO INSTALL THE INTERNALS CONTECH'S LOGO AS WELL AS THE INLET AND THE OUTLET MUST BE STENBCILED ONTO THE STRUCTURE				
Rim: 471.23' Rim to Invert: 6.47' Slack: 7.64" Sump: 83" Step Position:											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset	
Invert 1											
Invert 2											
Invert 3											
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											
RIGHT-SIDE UP VIEW (int. dimensions)  UPSIDE-DOWN VIEW (int. dimenions)   INSIDE WALL DIMENSIONS 											
Coating (Int): Coating (Ext):			Seam Up: Tongue Seam Dn: n/a		Wall Thickness: 9" Floor Height: 13"		Height (Int): 24" Height (Ext): 37"		Weight (Net): 17113 lb Volume (Net): 4.37cu.yd		

Job Name: 26-2644 881922 Hawkins School Tennis
 Job Location: Cleveland, OH
 Contractor: Contech Engineering Solutions

Plant: Beaver Dam

6/15/2026 10:28:38 AM

Tech: S. Felletter

PC: C. Goff



Structure ID: 15-CS-8

P2 MH096RS96

MH RISER T/G

- P4) 24" - CASTING HEIGHT - 4"
 P3) 96" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) F/G - 17"
 P2) 96" - MH RISER T/G - 96"
 P1) 96" - MH MONOBASE 13F, Custom Ht T/n - 24"
 1) CVSTENCILING
 1) ASSEMBLY REQUIRED
 2) 96" - Conseal CS-102 1.00"
 1) 24" - Conseal CS-102 1.00"
 2) Hole - 32

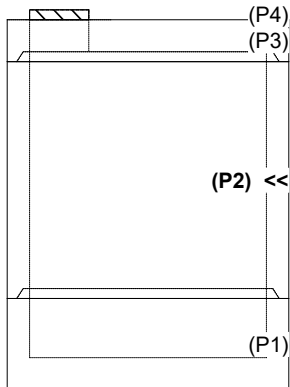
0 lb
 10015 lb
 22680 lb
 17113 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb
 Structure Total: 49809 lb

Structure Notes:
 4" CASTING BY OTHERS
 LIFTING ANCHORS TO BE INSTALLED
 ON THE OUTSIDE OF THE STRUCTURE
 ICAST TO INSTALL THE INTERNALS
 CONTECH'S LOGO AS WELL AS THE
 INLET AND OUTLET MUST BE
 STENCILED ONTO THE STRUCTURE

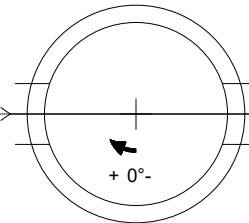
Rim: 1028.15' Rim to Invert: 5.9' Slack: 11.844" Sump: 82.044" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	1022.25'	270°	268.606"	24" HDPE	27.8"	Hole 32	32"	32.624"	49.044"	0"
Invert 2	1022.25'	90°	89.535"	24" HDPE	27.8"	Hole 32	32"	32.624"	49.044"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

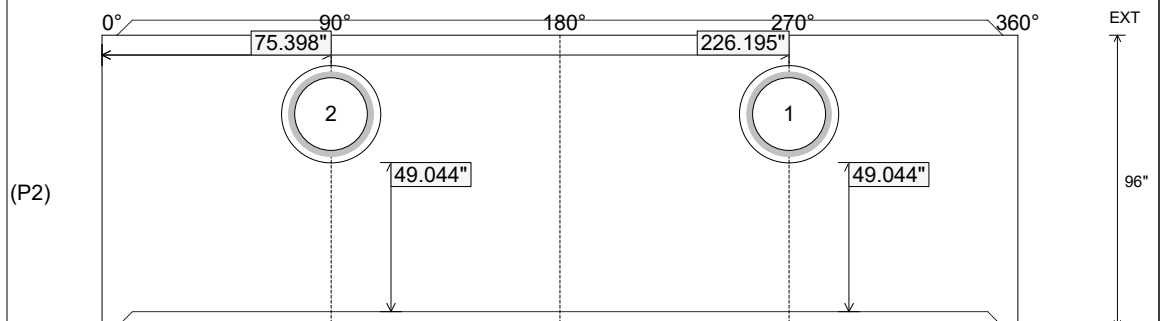


Invert: 2
 Degree: 90°
 Horz: 75.398"
 Hole: 32"
 Up(): 49.044"



Invert: 1
 Degree: 270°
 Horz: 226.195"
 Hole: 32"
 Up(): 49.044"

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: Groove

Wall Thickness: 9"
 Floor Height: 0"

Height (Int): 96"
 Height (Ext): 96"

Weight (Net): 22680 lb
 Volume (Net): 5.79cu.yd

Job Name: 24-1643B - KYTC McCracken Co. Call 200 (ID 241301)
Job Location: Paducah, KY
Contractor: Jim Smith Contracting Co, LLC

Plant: 100

5/28/2026 7:51:16 AM

Tech: J. Horsley

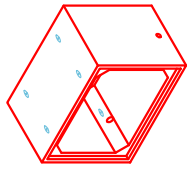
PC: C. Goff



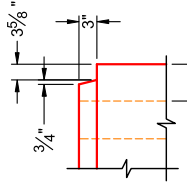
Structure ID: St. 43+62 (PC 6)

P1 BC096072-08WLF-9HC

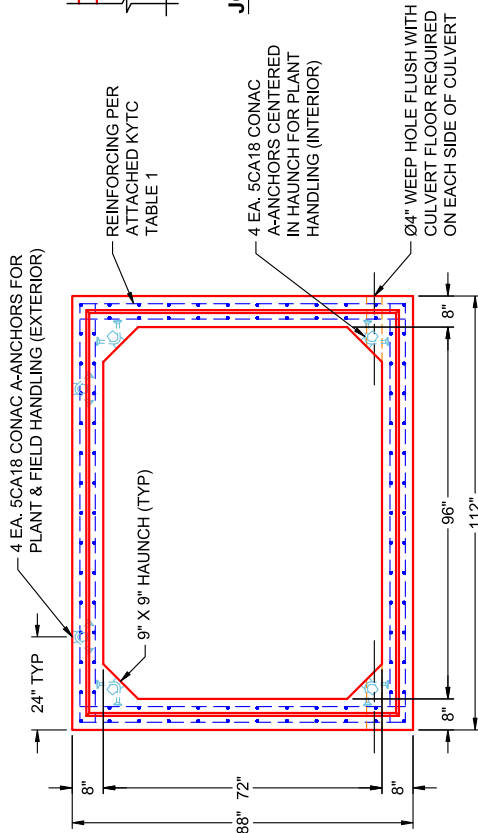
BOX CULVERT (08W/08F/08T) G/T



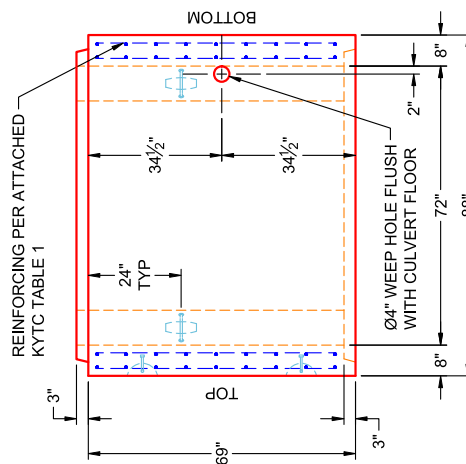
COMPONENT
ISOMETRIC
VIEW



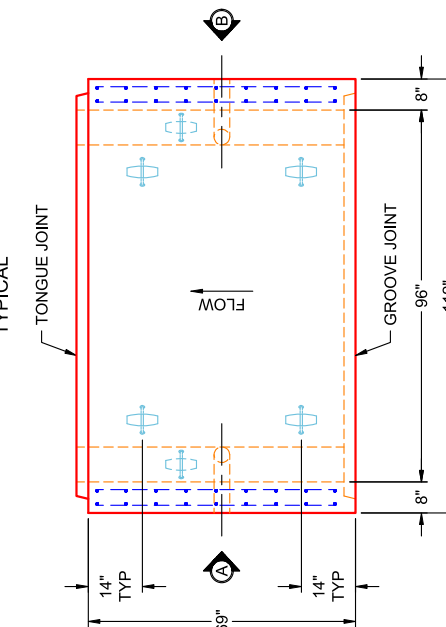
JOINT DETAIL
(TYP)
NTS



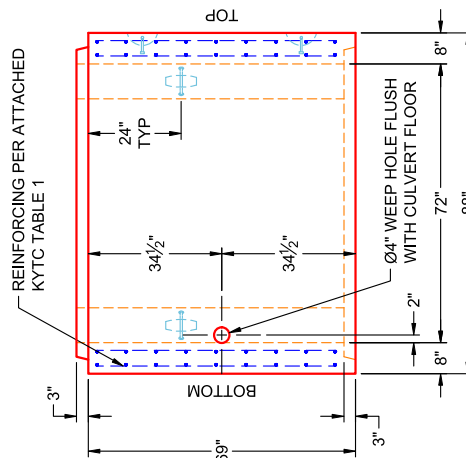
END VIEW
TYPICAL



VIEW B
PC 6
(UPRIGHT IN MOLD)



PLAN VIEW
PC 6
(UPRIGHT IN MOLD)



VIEW A
PC 6
(UPRIGHT IN MOLD)

GENERAL NOTES:

- PER SECTION 605 OF KYTC STANDARD SPECS FOR ROAD & BRIDGE CONSTRUCTION
- KYTC STAMP REQUIRED
- WEEP HOLES REQUIRED
- LOAD REQUIREMENTS: KY-HL93 (KY TABLE 1)
- REINFORCEMENT PER ATTACHED KYTC TABLE 1
- COVER DEPTH: 10"
- CONCRETE: 5,000 PSI AT 28 DAYS
- JOINT SEALANT: 1" BUTYL MASTIC (CS-102)
EXTERIOR JOINT WRAP: 12" WIDE (CS-212)
- WEIGHT: 8' X 6' RCBC = 3,138 LBS / LF
(5'-9" LONG SECTION = 18,044 LBS)

PRODUCTION WORK ORDER

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



PRODUCT I.D.: BC096072-08WLF-9H

PRODUCT VIEW: RIGHT SIDE UP

PLANT: BEAVER DAM, KY

WEIGHT: 18,044 LBS

TOP SECTION JOINT: TONGUE

BASE SECTION JOINT: GROOVE

QC CHECK INITIALS:

DESCRIPTION: 96" X 72" X 69" BOX CULVERT (8" WALLS & 9" HAUNCH)

CUSTOMER: JIM SMITH CONTRACTING

PROJECT: KYTC MCCracken CO. CALL 200 (ID 241301)

STRUCTURE: ST. 43+62 (PC 6)

ORDER NO: 24-1643B

PE: J.H. ROSS

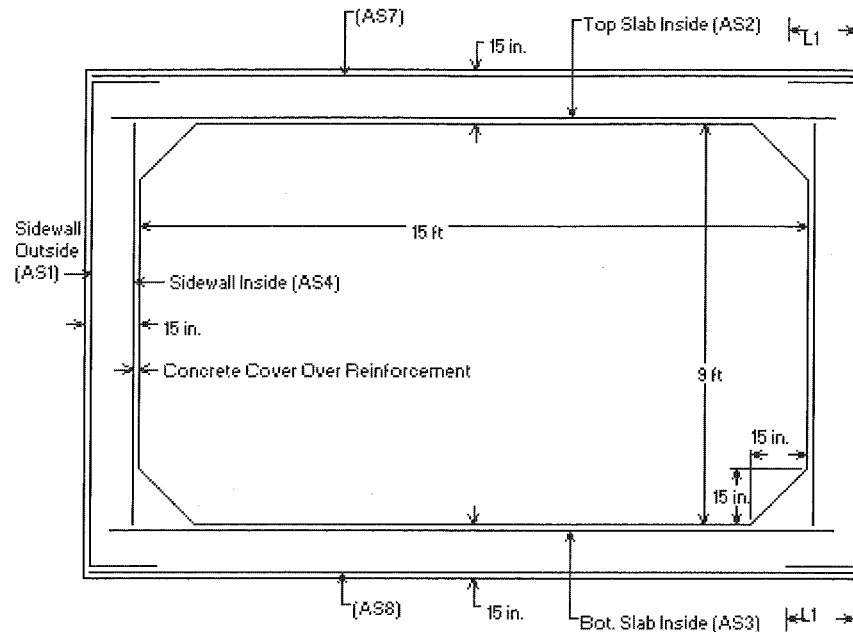
DRAWING: K. CARDWELL

DATE: 05/28/26

SCALE: NTS

PG. 1 OF 1

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

Notes:

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

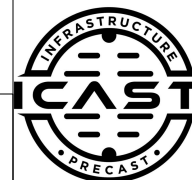
KY Table 1

Precast Culvert KYHL-93 Design Table

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
8x6x8	0<2	0.267	0.536	0.382	0.192	0.192	0.192	0.192	0.192
	2<3	0.266	0.458	0.382	0.192	0.192	0.192	0.192	0.192
	3-5	0.237	0.392	0.359	0.192	0.192	0.192		
	10	0.244	0.365	0.38	0.192	0.192	0.192		
	15	0.321	0.489	0.505	0.192	0.192	0.192		
	20	0.408	0.627	0.644	0.192	0.192	0.192		
	25	0.502	0.774	0.791	0.192	0.192	0.192		
	30	0.602	0.928	0.946	0.192	0.192	0.192		
	35	0.708	1.089	1.108	0.192	0.192	0.192		

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
8x7x8	0<2	0.245	0.557	0.403	0.192	0.192	0.192	0.197	0.192
	2<3	0.243	0.479	0.403	0.192	0.192	0.192	0.192	0.192
	3-5	0.215	0.409	0.378	0.192	0.192	0.192		
	10	0.225	0.378	0.396	0.192	0.192	0.192		
	15	0.295	0.507	0.526	0.192	0.192	0.192		
	20	0.374	0.651	0.671	0.192	0.192	0.192		
	25	0.459	0.804	0.825	0.192	0.192	0.192		
	30	0.549	0.965	0.987	0.192	0.192	0.192		
	35	0.644	1.134	1.157	0.192	0.192	0.192		

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
8x8x8	0<2	0.226	0.575	0.42	0.192	0.192	0.192	0.203	0.192
	2<3	0.224	0.494	0.42	0.192	0.192	0.192	0.192	0.192
	3-5	0.201	0.423	0.393	0.192	0.192	0.192		
	10	0.211	0.386	0.407	0.192	0.192	0.192		
	15	0.276	0.518	0.54	0.192	0.192	0.192		
	20	0.349	0.665	0.688	0.192	0.192	0.192		
	25	0.427	0.822	0.846	0.192	0.192	0.192		
	30	0.51	0.988	1.013	0.192	0.192	0.192		



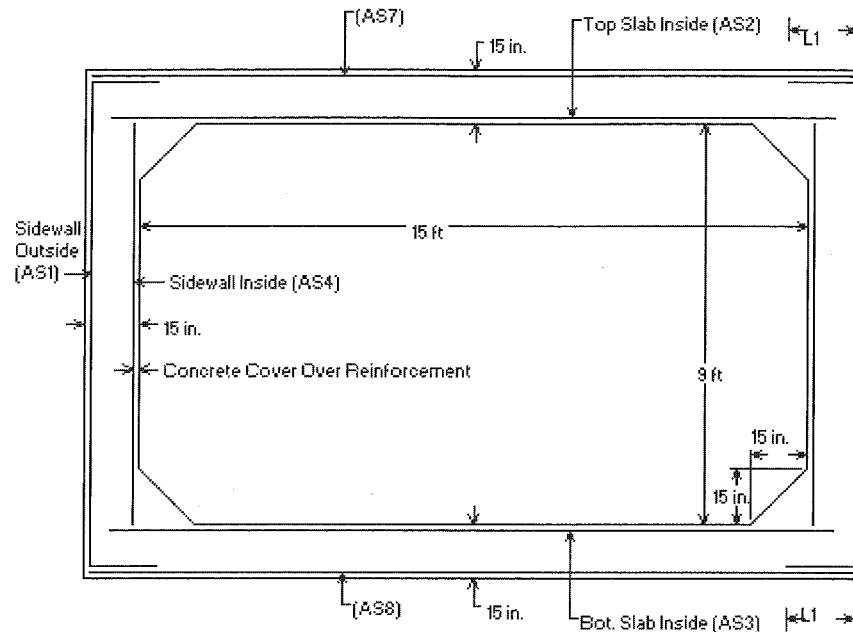
BOX CULVERT (08W/08F/08T) G/T



7. 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	☐ ALL DIMENSIONS CORRECT.	PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: ERNIE DAVIS & SONS MECHANICAL, INC.
	☐ LIFTERS INSTALLED INSIDE.	PLANT: BEAVER DAM, KY	PROJECT: HUNTER'S RIDGE PH 1
	☐ RECESS WITH HAUNCHES CORRECT.	WEIGHT: 13,537 LBS	STRUCTURE: BC 6 X 4 (SEC N)
	☐ REINFORCING CORRECT.	TOP SECTION JOINT: TONGUE	ORDER NO: 25-2898
	☐ SURFACE QUALITY ACCEPTABLE.	BASE SECTION JOINT: GROOVE	PE: J.H. ROSS
	☐ LIFTERS INSTALLED OUTSIDE.	QC CHECK INITIAL S:	DRAWING: K. CARDWELL
	☐ PRODUCT SQUARE		DATE: 05/29/26
			SCALE: NTS
			PAGE 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"									

Job Name: 26-2030 - KYTC McCracken Co. Call 111 (ID 264505)

Job Location: Paducah, KY

Contractor: Jim Smith Contracting Co, LLC

Plant: 100

6/12/2026 7:49:39 AM

Tech: J. Horsley

PC: J. Jarvis



Structure ID: 149+99 S-6 CBIA

P1 BX2436-08BVF

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

P4) 24" x 120" - CB INLET KY A 10' TOP SAG F/G - 10"

P3) 24" x 120" - CB INLET KY A 10' BOTTOM SAG T/G - 18"

P2) 24" x 36" - FIELD ADJUSTMENT - 3"

P1) 24" x 36" - BOX BASE 8inW, 8inF, Variable Ht F/n - 28"

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

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

1) Hole - 22

3398 lb

5270 lb

0 lb

3989 lb

206 lb

0 lb

0 lb

Structure Total: 12863 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. HOE-KY-206 F/C CAST INTO TOP SLAB.

.

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: 374.54'

Rim to Invert: 4.94'

Slack: 0.28"

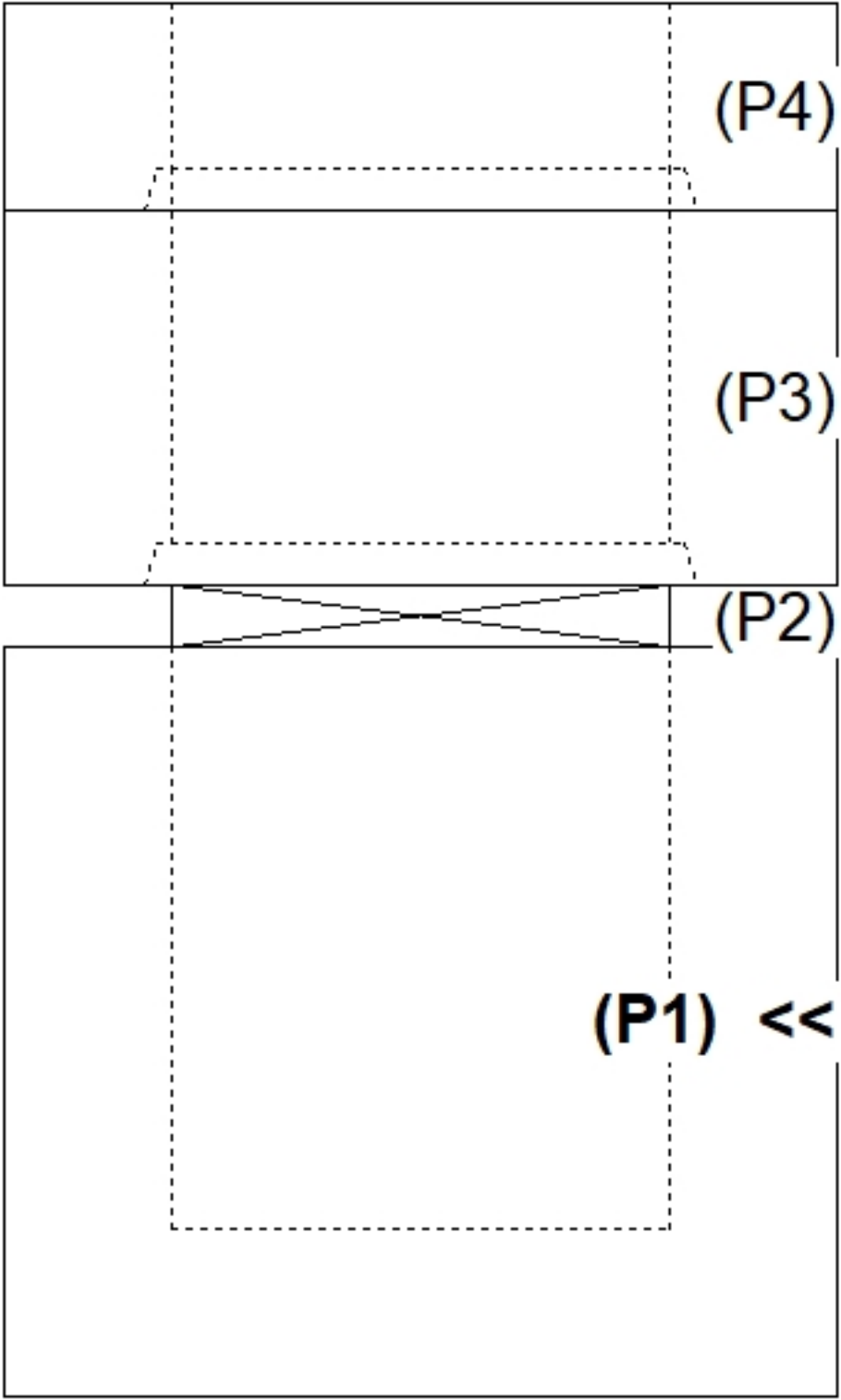
Sump: 0"

Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (⌋)	Offset
Invert 1	369.6'	15°	21.75"	18" CMP	19"	Hole 22	22"	22.776"	-2"	-5"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

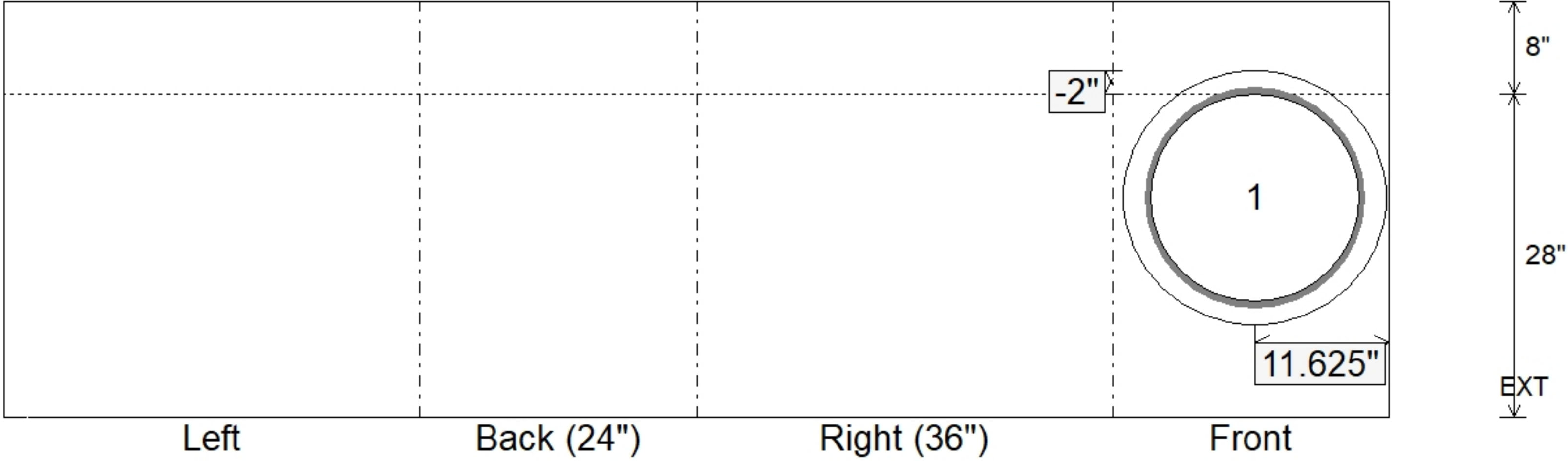
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



(P1) <<

INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: n/a

Wall Thickness: 8"

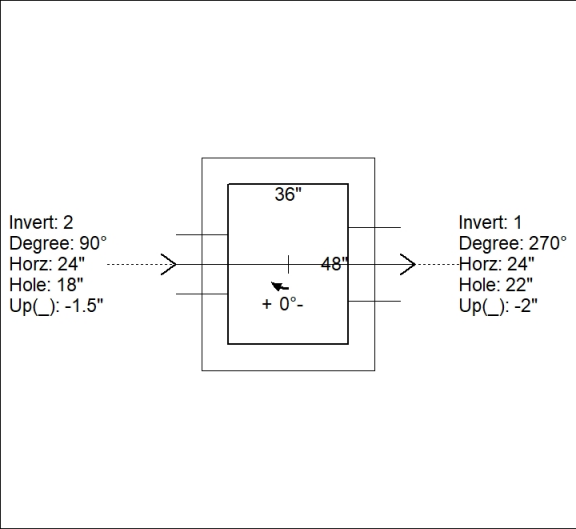
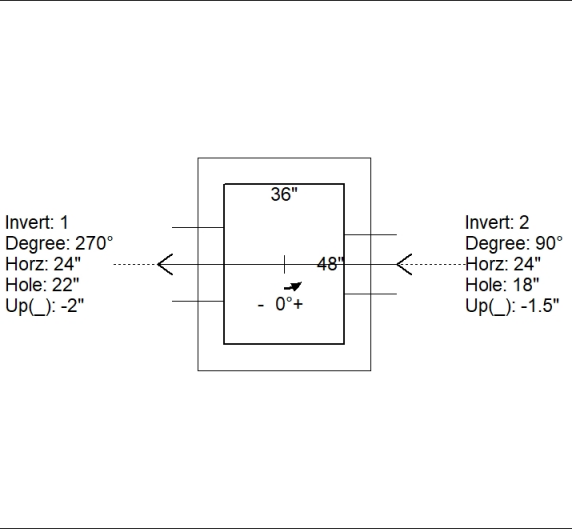
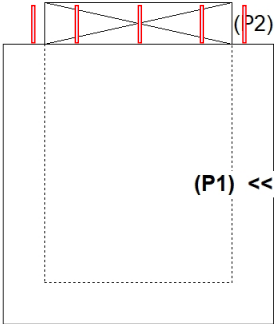
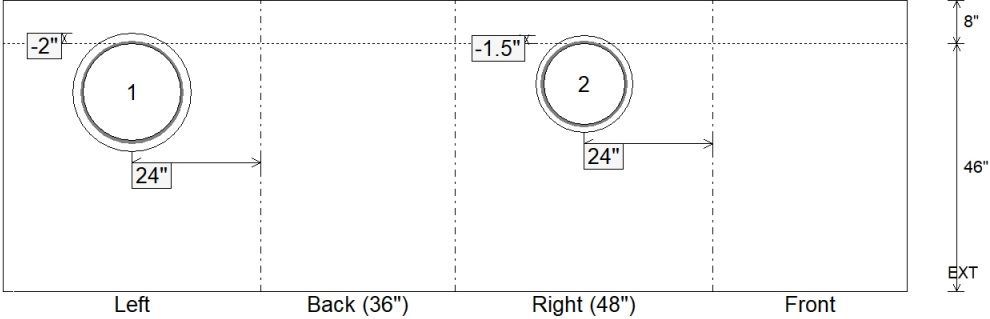
Floor Height: 8"

Height (Int): 28"

Height (Ext): 36"

Weight (Net): 3989 lb

Volume (Net): 1.02cu.yd

Job Name: 26-2030 - KYTC McCracken Co. Call 111 (ID 264505) Job Location: Paducah, KY Contractor: Jim Smith Contracting Co, LLC					Plant: 100 6/12/2026 7:49:32 AM		Tech: J. Horsley PC: J. Jarvis				
Structure ID: 144+26 S1 DBI-5D											
P1		BX3648-08BAVF		BOX BASE 8inW, 8inF, Variable Ht F/n							
P2) 36" x 48" - P.I.P. - BY OTHERS - 8" P1) 36" x 48" - BOX BASE 8inW, 8inF, Variable Ht F/n - 46" 1) CASTING - HOE KY-460 SET (DBI 5D) 1) 36" x 48" - Conseal CS-102 1.00" 1) Hole - 22 1) Hole - 18					0 lb 7984 lb 460 lb 0 lb 0 lb 0 lb ----- Structure Total: 8444 lb		Structure Notes: **KYTC STATE PROJECT** 1. KYTC DBI TYPE 5 / ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE KY-460 (DBI 5D). 4. STUB #5 BARS 20" OUT TOP OF WALLS (SPA@12"C/C) 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: 370.46' 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	365.92'	270°	32"	18" CMP	19"	Hole 22	22"	22"	-2"	0"	
Invert 2	365.92'	90°	32"	15" CMP	16"	Hole 18	18"	18"	-1.5"	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: Flat Seam Dn: n/a		Wall Thickness: 8" Floor Height: 8"		Height (Int): 46" Height (Ext): 54"		Weight (Net): 7984 lb Volume (Net): 2.04cu.yd		

Job Name: 26-2484 Bass Pro Shops Outpost Paducah
Job Location: Paducah, KY
Contractor: Central Paving Co. of Paducah, Inc.

Plant: Beaver Dam
6/16/2026 8:02:33 AM

Tech: S. Felletter
PC: A. Chambers



Structure ID: X8 ST-CI

P1 BX2424-08BAVF

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

P2) 24" x 24" - CASTING HEIGHT - 5"
P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 35"
1) CASTING - HOE KY-465 SET (CBI TY F)
1) 24" x 24" - Conseal CS-102 1.00"
1) Hole - 24

0 lb
3854 lb
465 lb
0 lb
0 lb

Structure Total: 4319 lb

Structure Notes:

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (HOE 465 F/G/H).

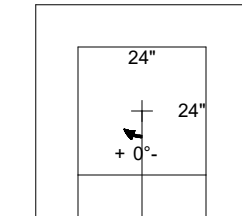
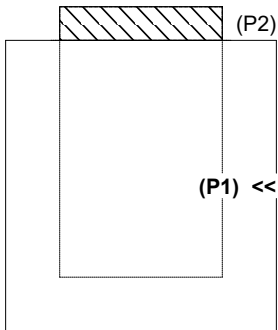
REINFORCING PER ASTM A615 (GRADE 60).
- WALLS (As .12) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .12) #5 BARS AT 12" C.C.E.W.

Rim: 370.9' Rim to Invert: 3.2' Slack: 0" Sump: 1.6" Step Position: 0°

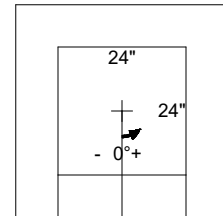
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	367.7'	0°	20"	18" HDPE	21.2"	Hole 24	24"	24"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimenions)



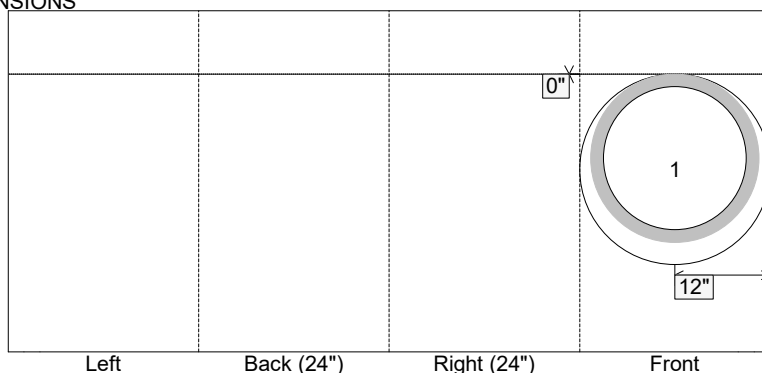
Invert: 1
Degree: 0°
Horz: 12"
Hole: 24"
Up(_): 0"



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

INSIDE WALL DIMENSIONS

(P1)



8"
35"
EXT

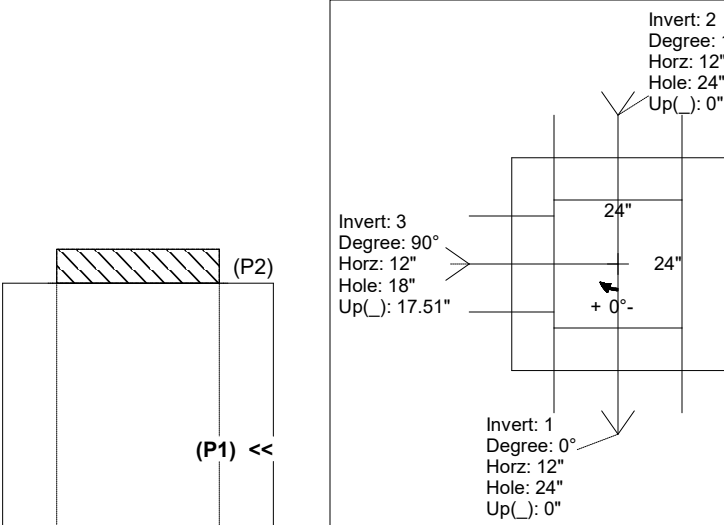
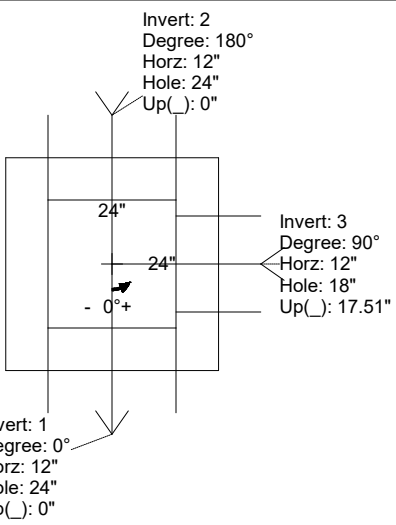
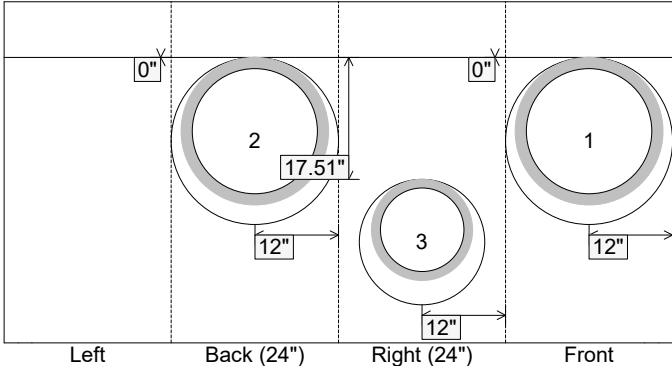
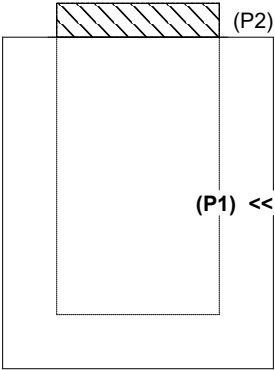
Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 35"
Height (Ext): 43"

Weight (Net): 3854 lb
Volume (Net): 0.98cu.yd

Job Name: 26-2484 Bass Pro Shops Outpost Paducah Job Location: Paducah, KY Contractor: Central Paving Co. of Paducah, Inc.					Plant: Beaver Dam 6/16/2026 8:02:32 AM		Tech: S. Felletter PC: A. Chambers				
Structure ID: X7 ST-CI											
P1 BX2424-08BAVF		BOX BASE 8inW, 8inF, Variable Ht F/n									
P2) 24" x 24" - CASTING HEIGHT - 5" P1) 24" x 24" - BOX BASE 8inW, 8inF, Variable Ht F/n - 41" 1) CASTING - HOE KY-465 SET (CBI TY F) 1) 24" x 24" - Conseal CS-102 1.00" 2) Hole - 24 1) Hole - 18					0 lb 3971 lb 465 lb 0 lb 0 lb 0 lb ----- 4436 lb Structure Total:		Structure Notes: 1. PER ASTM C478 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. CASTING BY ICAST (HOE 465 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: 370.9'		Rim to Invert: 3.7'		Slack: 0"		Sump: 1.6"		Step Position: 0°			
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	367.2'	0°	20"	18" HDPE	21.2"	Hole 24	24"	24"	0"	0"	
Invert 2	367.2'	180°	20"	18" HDPE	21.2"	Hole 24	24"	24"	0"	0"	
Invert 3	368.63'	90°	20"	12" HDPE	14.5"	Hole 18	18"	18"	17.51"	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  (P1) 											
Coating (Int): Coating (Ext):			Seam Up: Flat Seam Dn: n/a		Wall Thickness: 8" Floor Height: 8"		Height (Int): 41" Height (Ext): 49"		Weight (Net): 3971 lb Volume (Net): 1.01cu.yd		

Job Name: 25-3062 Portland Bypass
Job Location: Portland, TN
Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam
6/1/2026 8:24:55 AM

Tech: J. Coppage
PC: C. Goff



Structure ID: MD-19

P3 BX4848-08R48

BOX RISER 8inW

- P4) 48" x 48" - CASTING HEIGHT - 0"
- P3) 48" x 48" - BOX RISER 8inW - 48"
- P2) 48" x 48" - BOX RISER 8inW - 48"
- P1) 48" x 48" - BOX BASE 8inW, 8inF, Variable Ht - 41"
- 1) CASTING - JBS TYPE 39 TDOT GRATES (48" X 48")
- 1) Hole - 26

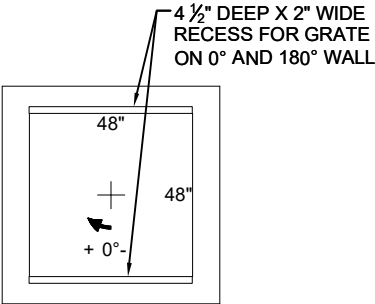
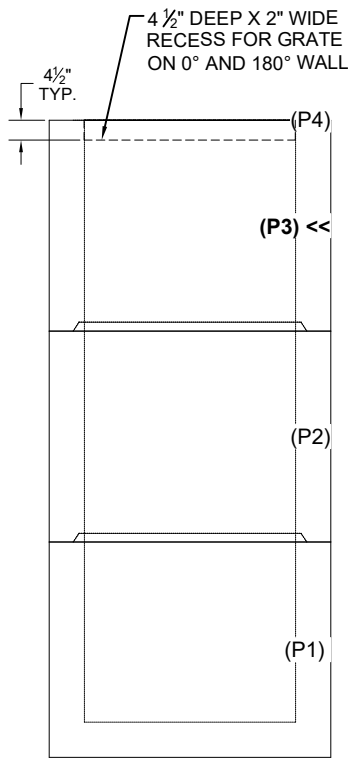
Structure Total: 23453 lb

- Structure Notes:
- 1. PER ASTM C913 SPECIFICATIONS.
 - 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 - 3. JBS TDOT TYPE 39 BY ICAST
 - 4. REINFORCING PER TDOT DRAWING D-CB-39S ASTM A615 (GRADE 60).
 - 5. PRODUCTION TO PLACE A 4.5" DEEP X 2" WIDE RECESS IN THE TOP INSIDE OF THE 0 DEGREE AND THE 180 DEGREE WALL OF THE TOP RISER.

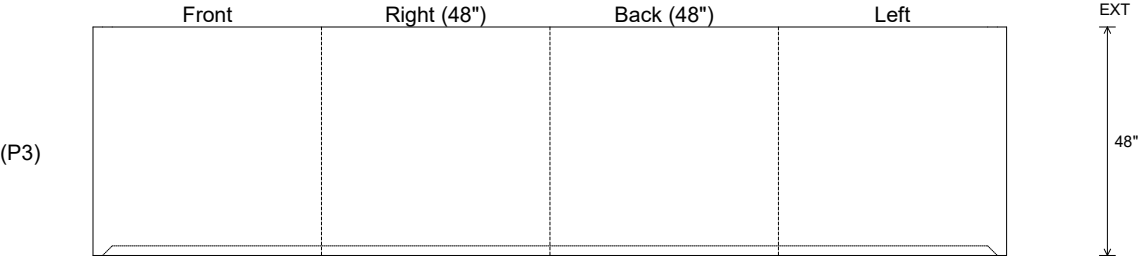
Rim: 773.95' Rim to Invert: 11.21' Slack: 0.02" Sump: 2.5" Step Position:

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)



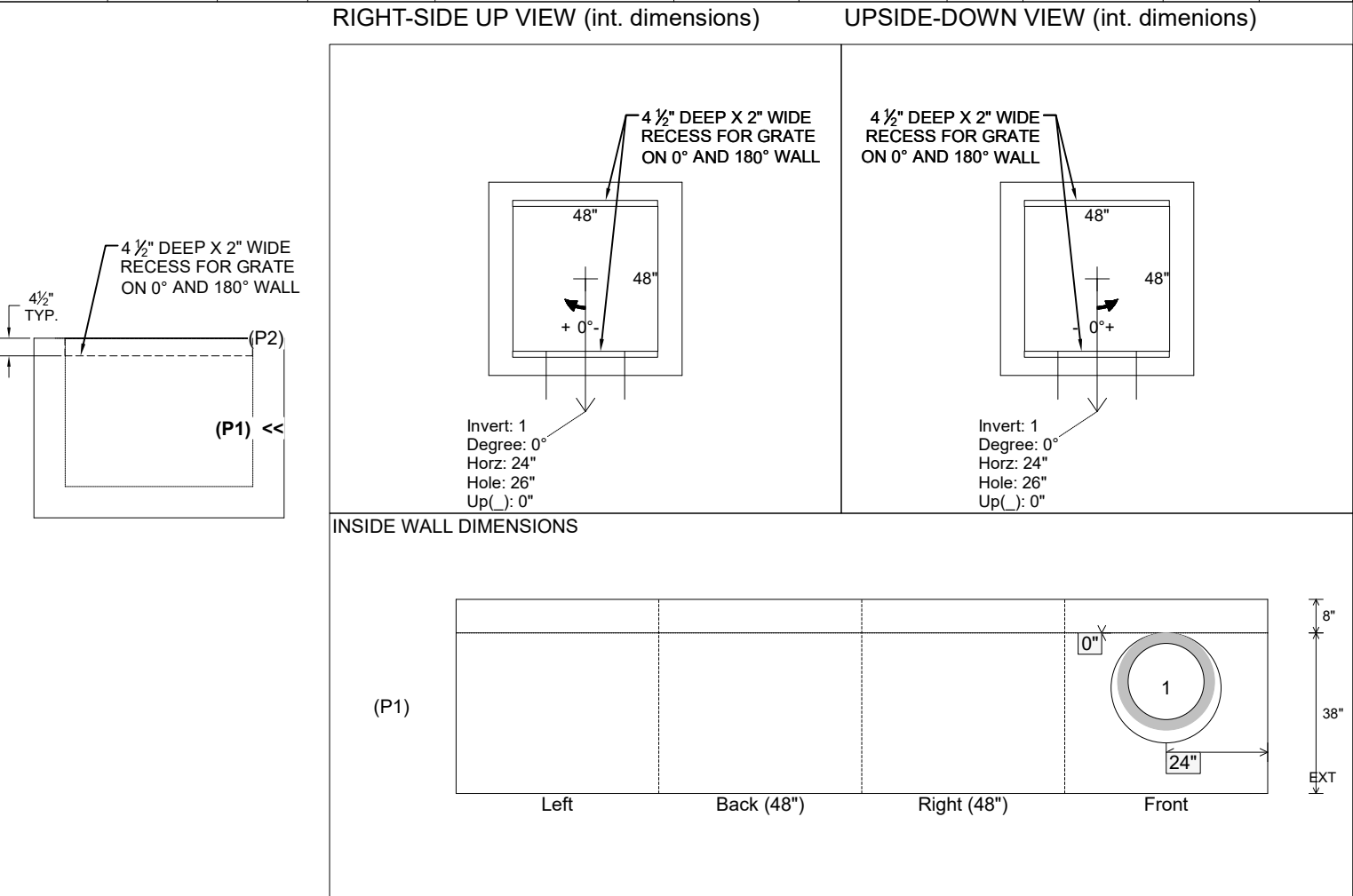
INSIDE WALL DIMENSIONS



Coating (Int): Seam Up: Flat Wall Thickness: 8" Height (Int): 48" Weight (Net): 7218 lb
Coating (Ext): Seam Dn: Groove Floor Height: 0" Height (Ext): 48" Volume (Net): 1.84cu.yd

P2) 48" x 48" - CASTING HEIGHT - 0" P1) 48" x 48" - BOX BASE 8inW, 8inF, Variable Ht - 38" 1) CASTING - JBS TYPE 39 TDOT GRATES (48" X 48") 1) Hole - 26						Structure Notes: 1. PER ASTM C913 SPECIFICATIONS. 2. CONCRETE = 4,000 PSI AT 28 DAYS. 3. JBS TDOT TYPE 39 BY ICAST 4. REINFORCING PER TDOT DRAWING D-CB-39S ASTM A615 (GRADE 60). 5. PRODUCTION TO PLACE A 4.5" DEEP X 2" WIDE RECESS IN THE TOP INSIDE OF THE 0 DEGREE AND THE 180 DEGREE WALL OF THE BASE.				
Structure Total:						0 lb	8107 lb	459 lb	0 lb	8566 lb
Rim: 800.27' Rim to Invert: 2.99' Slack: 0.38" Sump: 2.5" Step Position:										

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (_)	Offset
Invert 1	797.28'	0°	32"	18" RCP B WALL	23"	Hole 26	26"	26"	0"	0"
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										



Coating (Int):	Seam Up: Flat	Wall Thickness: 8"	Height (Int): 38"	Weight (Net): 8107 lb
Coating (Ext):	Seam Dn: n/a	Floor Height: 8"	Height (Ext): 46"	Volume (Net): 2.07cu.yd

Job Name: 25-2073 - Alcoa Outfall
 Job Location: Newburgh, IN
 Contractor: Bowen Engineering Corporation

Plant: 100

6/16/2026 2:38:17 PM

Tech: J. Horsley

PC: A. Chambers



Structure ID: MH 1

P4 GR30x30x6x3

GRADE RING F/F

- P5) 30" x 30" - CASTING HEIGHT - 4"
 P4) 30" x 30" - GRADE RING F/F - 3"
 P3) 84" x 84" - CB FLAT TOP 8"W w/30"x30" ECC HOLE F/F - 8"
 P2) 84" x 84" - BOX RISER 8inW, Variable Ht F/G - 66"
 P1) 84" x 84" - BOX RISER 8inW, Variable Ht FB T/F - 58"
 1) CASTING - HOE 468 F/G
 2) 84" x 84" - Conseal CS-102 1.00"
 1) 30" x 30" - Conseal CS-102 1.00"
 2) DOGHOUSE - 48"x48"
 1) SQ. Hole n/n - 72"x42"
 11) MH Step ML-10-TDS-NCR - 10"

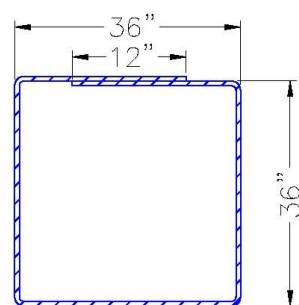
0 lb
 218 lb
 6109 lb
 14274 lb
 11548 lb
 489 lb
 0 lb
 0 lb
 0 lb
 0 lb
 0 lb

 32637 lb

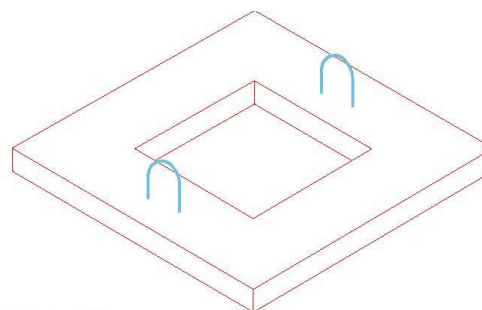
Structure Total:

Structure Notes:

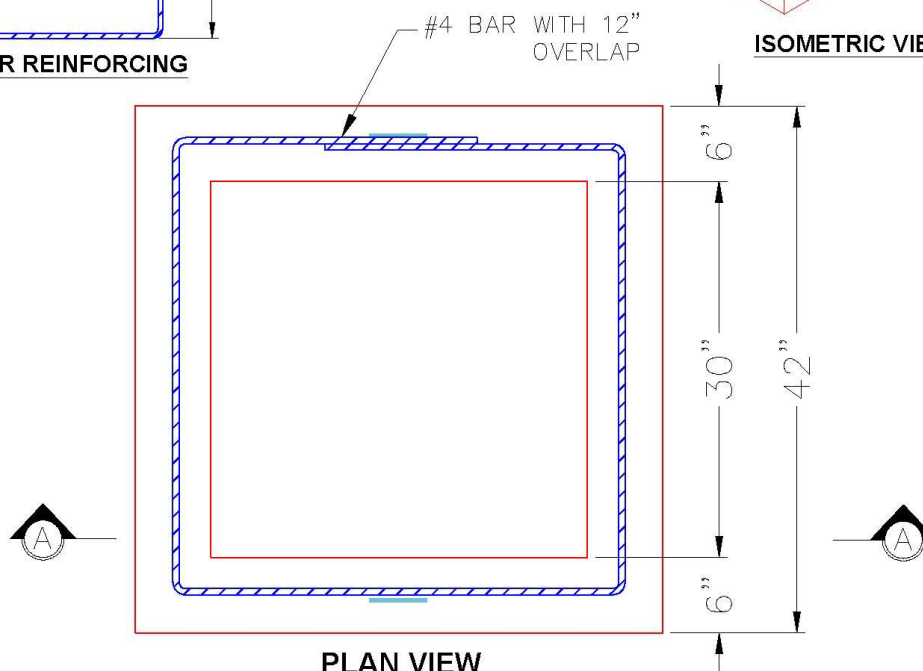
1. PER ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #4 BAR AS SHOWN (GRADE 60)



#4 BAR REINFORCING

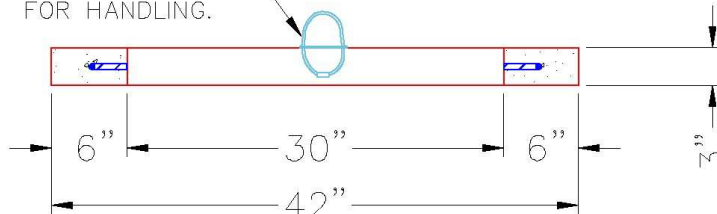


ISOMETRIC VIEW



PLAN VIEW

2 EA. CONAC .8 TON 8¹/₁₆"
 (6MM) WIRE ROPE ANCHORS
 FOR HANDLING.



SECTION A-A

Coating (Int):
 Coating (Ext):

Seam Up: Flat
 Seam Dn: Flat

Wall Thickness: 6"

Height (Ext): 3"

Weight (Net): 217 lb
 Volume (Net): 0.06cu.yd

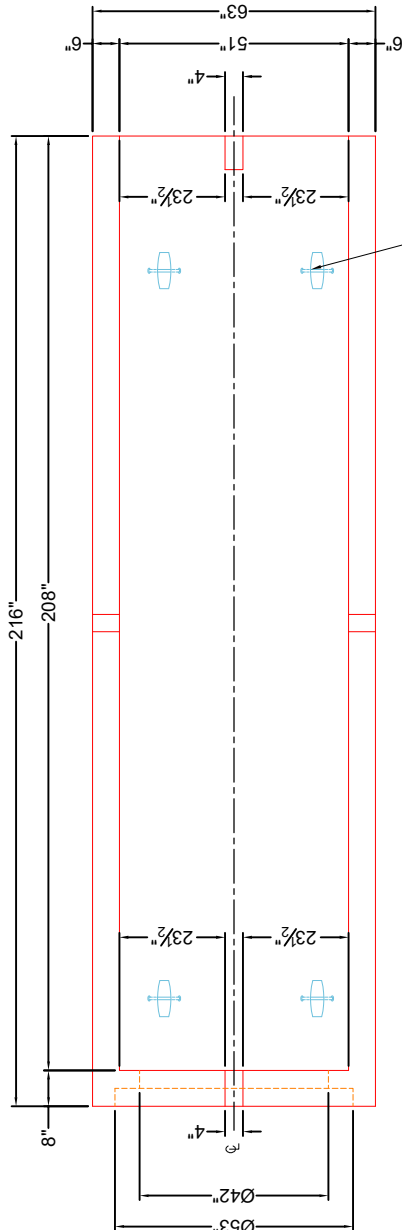
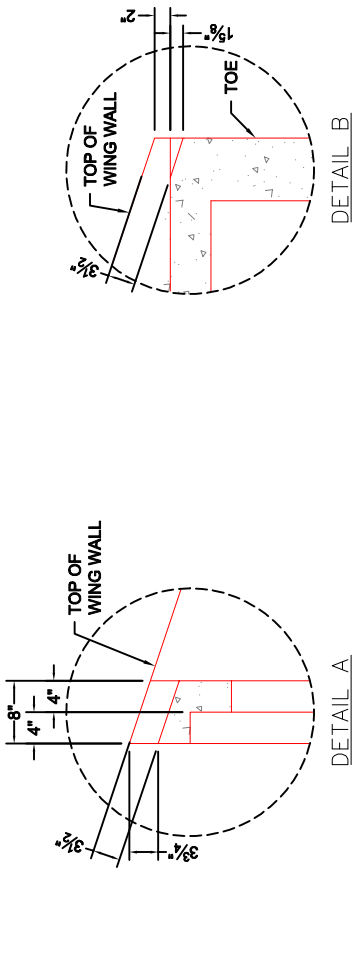
Structure ID: EW-12 465+50.00

P1 HWTDOT4-1TU42

42" - HW TDOT 4:1 Type U Cross Drain Endwall

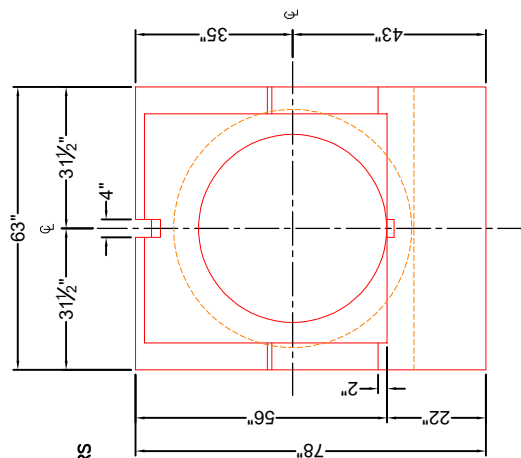
GENERAL NOTES:

1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
2. CONCRETE: 5,000 PSI AT 28 DAYS.
4. REINFORCING: SEE SHEETS 2 AND 3 FOR REINFORCEMENT INFORMATION. (GRADE 60) REFERENCE TDOT DWG D-PE-42B
5. WEIGHT: 15,540 LBS

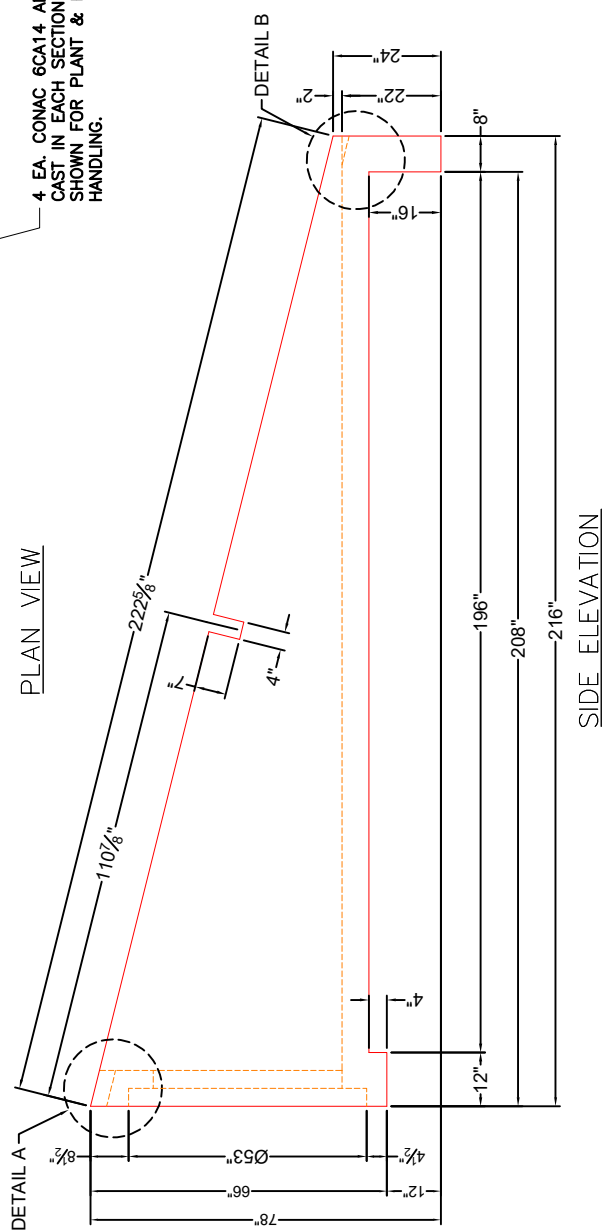


4 EA. CONAC 6CA14 ANCHORS
CAST IN EACH SECTION AS
SHOWN FOR PLANT & FIELD
HANDLING.

PLAN VIEW



FRONT ELEVATION

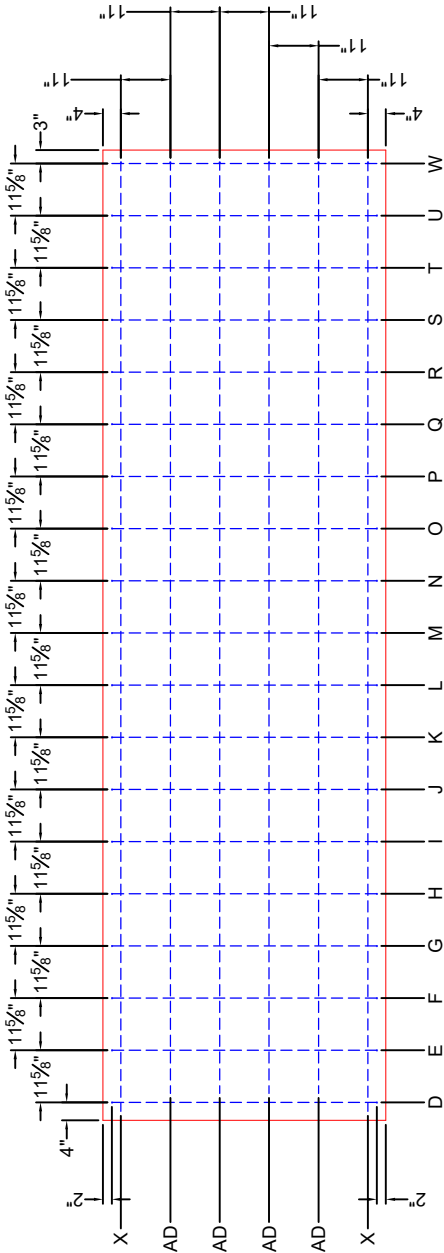


SIDE ELEVATION

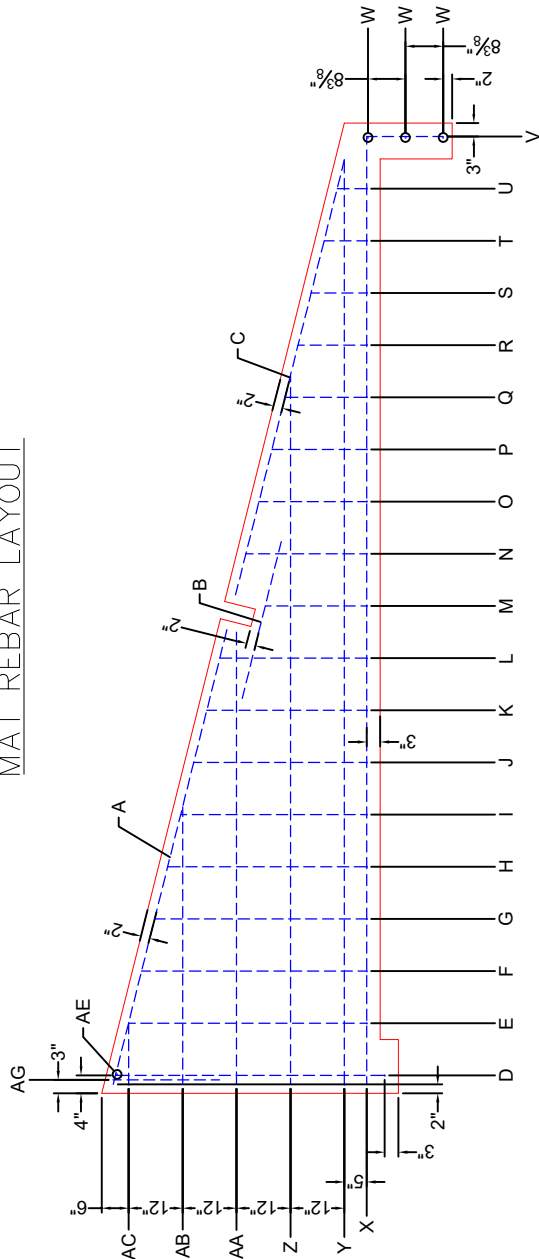


Structure ID: EW-12 465+50.00
P1 HWTDOT4-1TU42 42" - HW TDOT 4:1 Type U Cross Drain Endwall

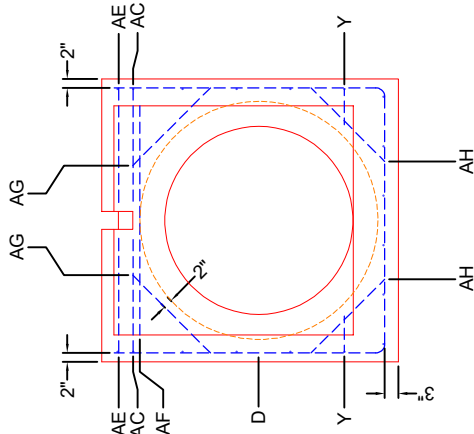
- GENERAL NOTES:**
- 1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
 - 2. CONCRETE: 5,000 PSI AT 28 DAYS.
 - 3. REINFORCING: SEE SHEETS 2 AND 3 FOR REBAR INFORMATION
 - 4. WEIGHT: 15,540 LBS



MAT REBAR LAYOUT



SIDE WALL REBAR LAYOUT



BACK WALL REBAR LAYOUT

Job Name: 25-3062 Portland Bypass
Job Location: Portland, TN
Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam
6/1/2026 12:50:57 PM

Tech: J. Coppage
PC: C. Goff

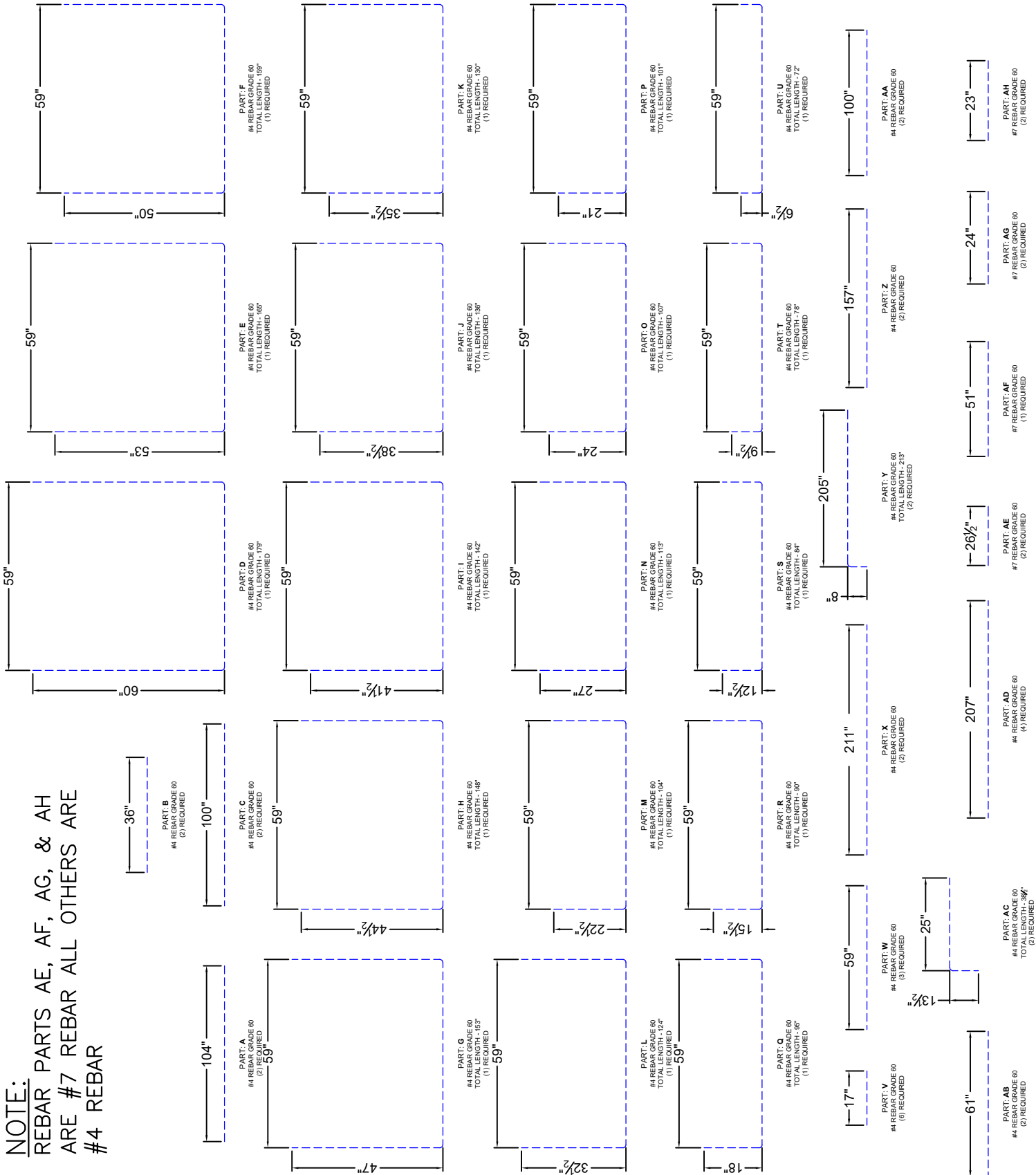


Structure ID: EW-12 465+50.00

P1 HWTDOT4-1TU42

42" - HW TDOT 4:1 Type U Cross Drain Endwall

NOTE:
REBAR PARTS AE, AF, AG, & AH
ARE #7 REBAR ALL OTHERS ARE
#4 REBAR





18" - HW TDOT 6:1 Type U Cross Drain Endwall

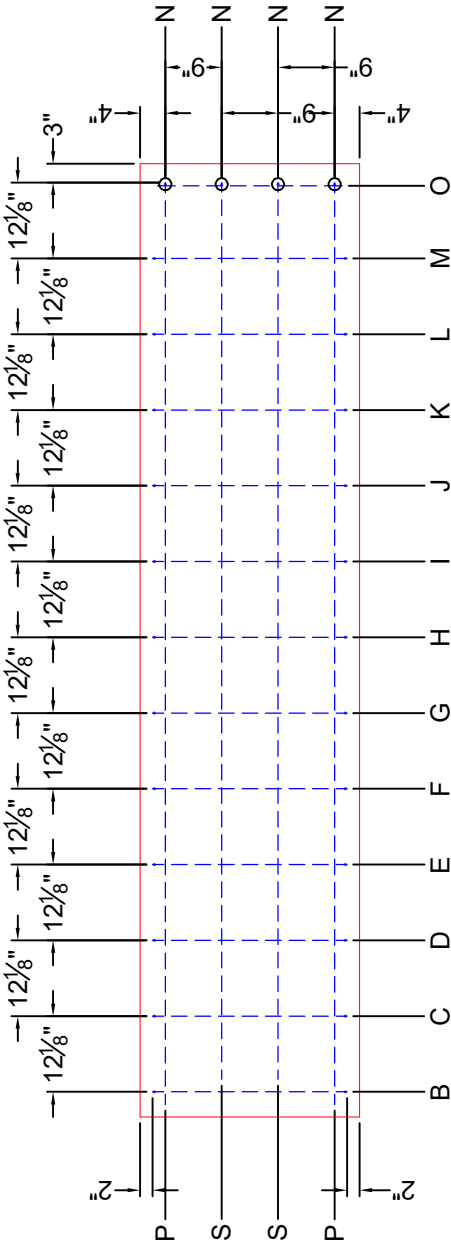
FRONT ELEVATION

Structure ID: EW-18 518+00.00

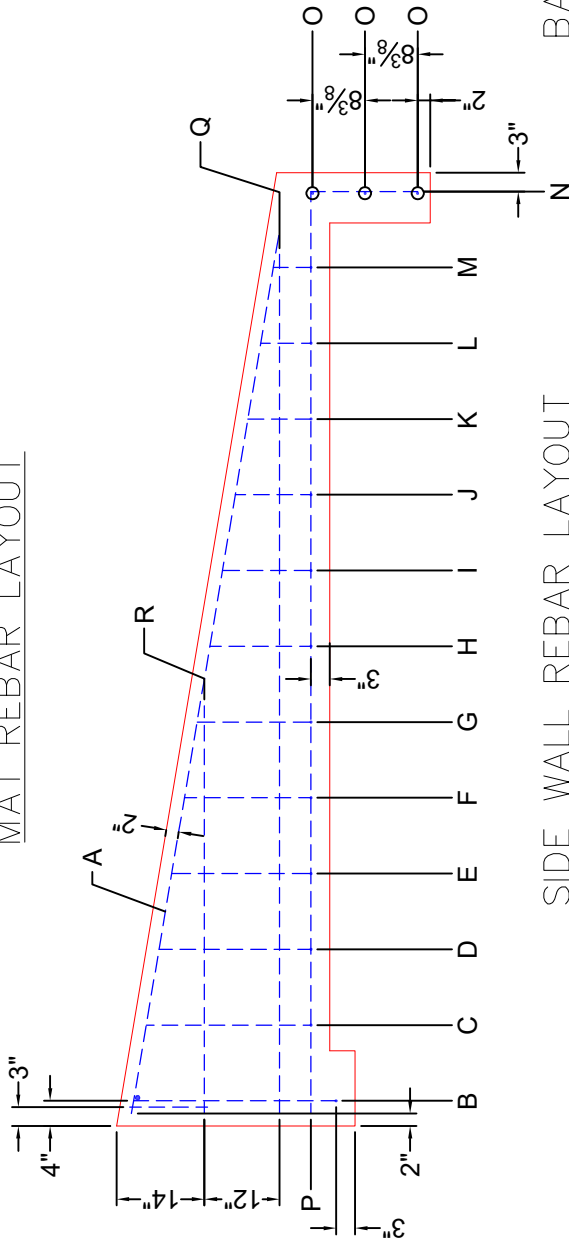
P1 HWTDOT6-1TU18

18" - HW TDOT 6:1 Type U Cross Drain Endwall

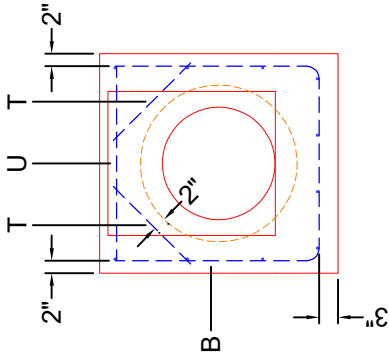
- GENERAL NOTES:
1. MANUFACTURED TO ASTM C-913 (LATEST REVISION).
 2. CONCRETE: 5,000 PSI AT 28 DAYS.
 3. WEIGHT: 5,990 LBS
 4. REINFORCING: SEE SHEETS 2 AND 3 FOR REINFORCEMENT INFORMATION. (GRADE 60) REFERENCE TDOT DWG D-PE-18B



MAT REBAR LAYOUT



SIDE WALL REBAR LAYOUT



BACK WALL REBAR LAYOUT

Job Name: 25-3062 Portland Bypass
Job Location: Portland, TN
Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam
6/1/2026 12:50:54 PM

Tech: J. Coppage
PC: C. Goff

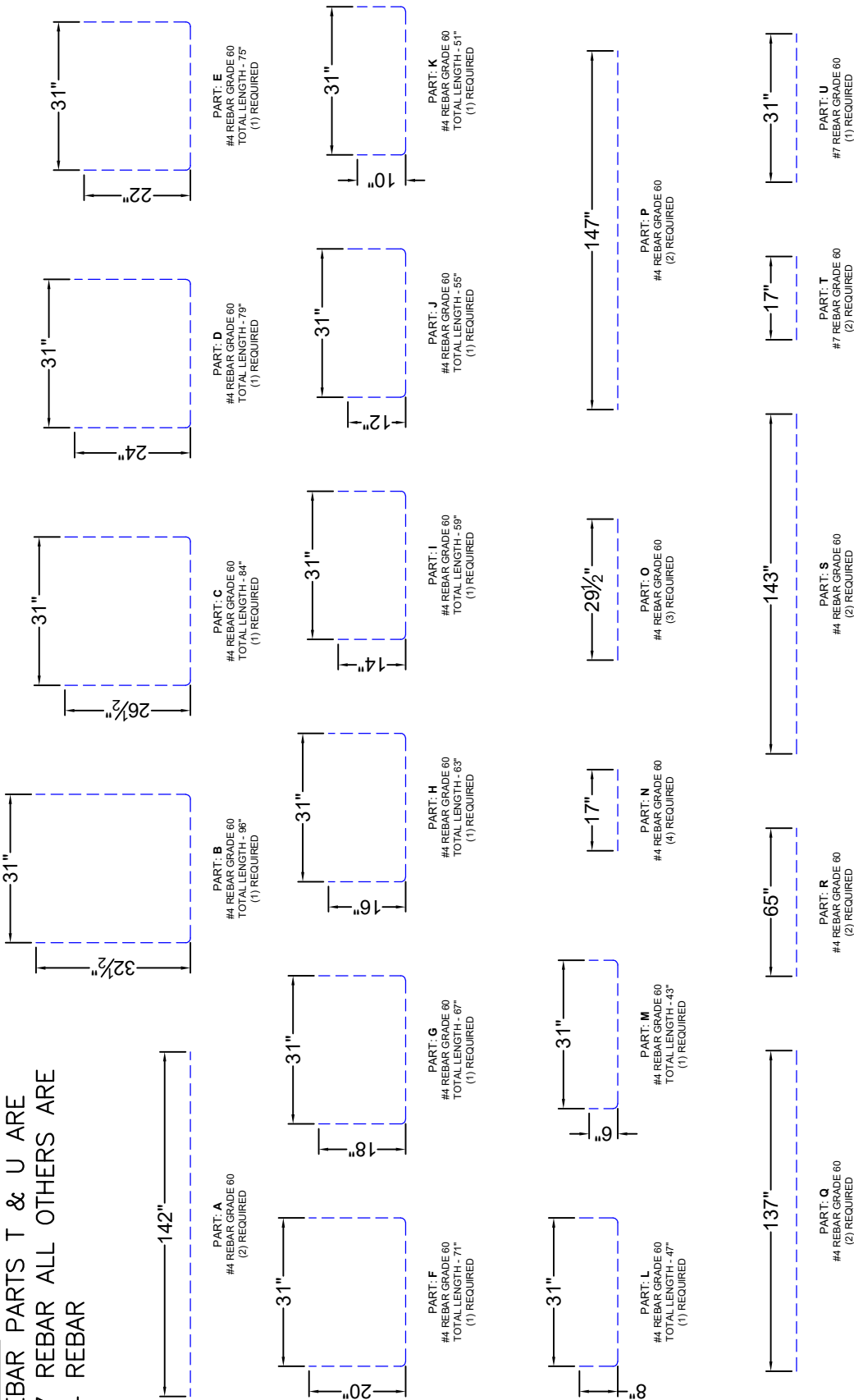


Structure ID: EW-18 518+00.00

P1 HWTDOT6-1TU18

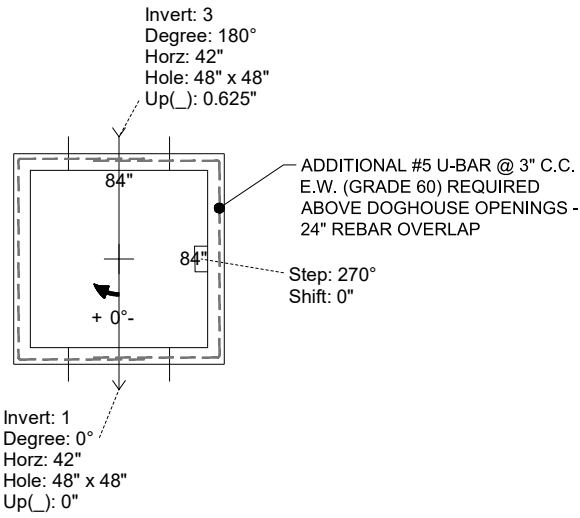
18" - HW TDOT 6:1 Type U Cross Drain Endwall

NOTE:
REBAR PARTS T & U ARE
#7 REBAR ALL OTHERS ARE
#4 REBAR

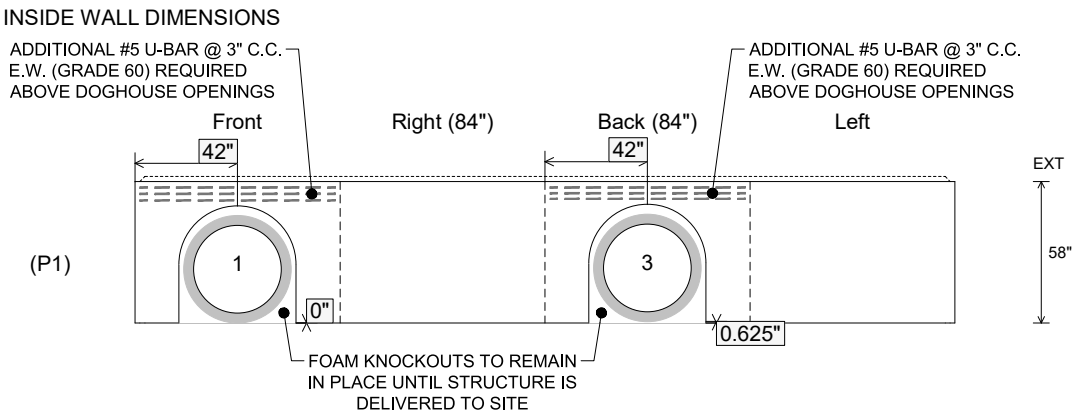


Job Name: 25-2073 - Alcoa Outfall Job Location: Newburgh, IN Contractor: Bowen Engineering Corporation					Plant: 100 6/16/2026 2:36:21 PM		Tech: J. Horsley PC: A. Chambers				
Structure ID: MH 1											
P1 BX084084-08RVF					BOX RISER 8inW, Variable Ht FB T/F						
P5) 30" x 30" - CASTING HEIGHT - 4" P4) 30" x 30" - GRADE RING F/F - 3" P3) 84" x 84" - CB FLAT TOP 8"W w/30"x30" ECC HOLE F/F - 8" P2) 84" x 84" - BOX RISER 8inW, Variable Ht F/G - 66" P1) 84" x 84" - BOX RISER 8inW, Variable Ht FB T/F - 58" 1) CASTING - HOE 468 F/G 2) 84" x 84" - Conseal CS-102 1.00" 1) 30" x 30" - Conseal CS-102 1.00" 2) DOGHOUSE - 48"x48" 1) SQ. Hole n/n - 72"x42" 11) MH Step ML-10-TDS-NCR - 10"					0 lb 218 lb 6109 lb 14274 lb 11548 lb 489 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 32637 lb		Structure Notes: 1. PER ASTM C-913 SPECIFICATIONS 2. CONCRETE: 4,500 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) - ADDITIONAL #5 U-BAR @ 3" C.C. E.W. (GRADE 60) REQUIRED ABOVE DOGHOUSE OPENINGS 4. STEPS AT 270 DEGREES 5. HOE 468 FRAME & GRATE SUPPLIED BY ICAST 6. LIFTERS: 4 EA. 5CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED IN 90° & 270° WALLS, 16" FROM TOP OF WALLS 7. FOAM KNOCKOUTS ARE TO REMAIN IN PLACE UNTIL STRUCTURE IS DELIVERED TO SITE				
Rim: 394.26' Rim to Invert: 11.28' Slack: 0.36" Sump: 4" Step Position: 270°											
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset	
Invert 1	382.98'	0°	50"	36" RCP B WALL	44"	DOGHOUSE 48"x48"	48" x 48"	48"	0"	0"	
Invert 2											
Invert 3	383.03'	180°	50"	36" RCP B WALL	44"	DOGHOUSE 48"x48"	48" x 48"	48"	0.625"	0"	
Invert 4											
Invert 5											
Invert 6											
Invert 7											
Invert 8											

RIGHT-SIDE UP VIEW (int. dimensions)



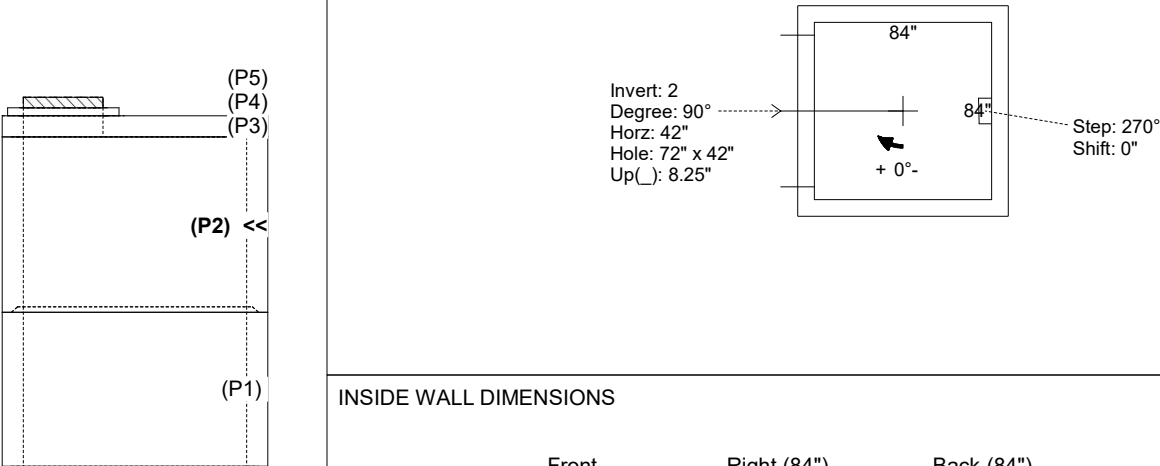
INSIDE WALL DIMENSIONS



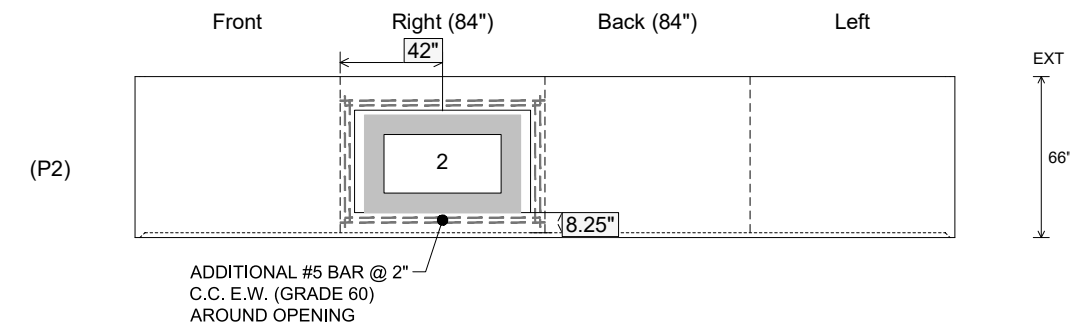
Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Flat	Wall Thickness: 8" Floor Height: 0"	Height (Int): 58" Height (Ext): 58"	Weight (Net): 11548 lb Volume (Net): 2.95cu.yd
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Job Name: 25-2073 - Alcoa Outfall Job Location: Newburgh, IN Contractor: Bowen Engineering Corporation				Plant: 100 6/16/2026 2:37:55 PM		Tech: J. Horsley PC: A. Chambers				
Structure ID: MH 1										
P2 BX084084-08RVF				BOX RISER 8inW, Variable Ht F/G						
P5) 30" x 30" - CASTING HEIGHT - 4" P4) 30" x 30" - GRADE RING F/F - 3" P3) 84" x 84" - CB FLAT TOP 8"W w/30"x30" ECC HOLE F/F - 8" P2) 84" x 84" - BOX RISER 8inW, Variable Ht F/G - 66" P1) 84" x 84" - BOX RISER 8inW, Variable Ht FB T/F - 58" 1) CASTING - HOE 468 F/G 2) 84" x 84" - Conseal CS-102 1.00" 1) 30" x 30" - Conseal CS-102 1.00" 2) DOGHOUSE - 48"x48" 1) SQ. Hole n/n - 72"x42" 11) MH Step ML-10-TDS-NCR - 10"					0 lb 218 lb 6109 lb 14274 lb 11548 lb 489 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 32637 lb		Structure Notes: 1. PER ASTM C-913 SPECIFICATIONS 2. CONCRETE: 4,500 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) - ADDITIONAL REBAR REQUIRED AROUND OPENING FOR INVERT 2 4. STEPS AT 270 DEGREES 5. HOE 468 FRAME & GRATE SUPPLIED BY ICAST 6. LIFTERS: 4 EA. 5CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED IN 0° & 180° WALLS, 18" FROM TOP OF WALLS			
Rim: 394.26' Rim to Invert: 11.28' Slack: 0.36" Sump: 4" Step Position: 270°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1										
Invert 2	389'	90°	50"	48" x 24" BOX CULV. (8W8F8T)	64" x 40"	SQ. Hole 72"x42"	72" x 42"	72"	8.25"	0"
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): 66" Height (Ext): 66"	Weight (Net): 14274 lb Volume (Net): 3.65cu.yd
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Job Name: 25-2073 - Alcoa Outfall
Job Location: Newburgh, IN
Contractor: Bowen Engineering Corporation

Plant: 100

Tech: J. Horsley

6/16/2026 2:38:16 PM

PC: A. Chambers



Structure ID: MH 1

P3 BX084084-08LD08-SP

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

- P5) 30" x 30" - CASTING HEIGHT - 4"
P4) 30" x 30" - GRADE RING F/F - 3"
P3) 84" x 84" - CB FLAT TOP 8"W w/30"x30" ECC HOLE F/F - 8"
P2) 84" x 84" - BOX RISER 8inW, Variable Ht F/G - 66"
P1) 84" x 84" - BOX RISER 8inW, Variable Ht FB T/F - 58"
1) CASTING - HOE 468 F/G
2) 84" x 84" - Conseal CS-102 1.00"
1) 30" x 30" - Conseal CS-102 1.00"
2) DOGHOUSE - 48"x48"
1) SQ. Hole n/n - 72"x42"
11) MH Step ML-10-TDS-NCR - 10"

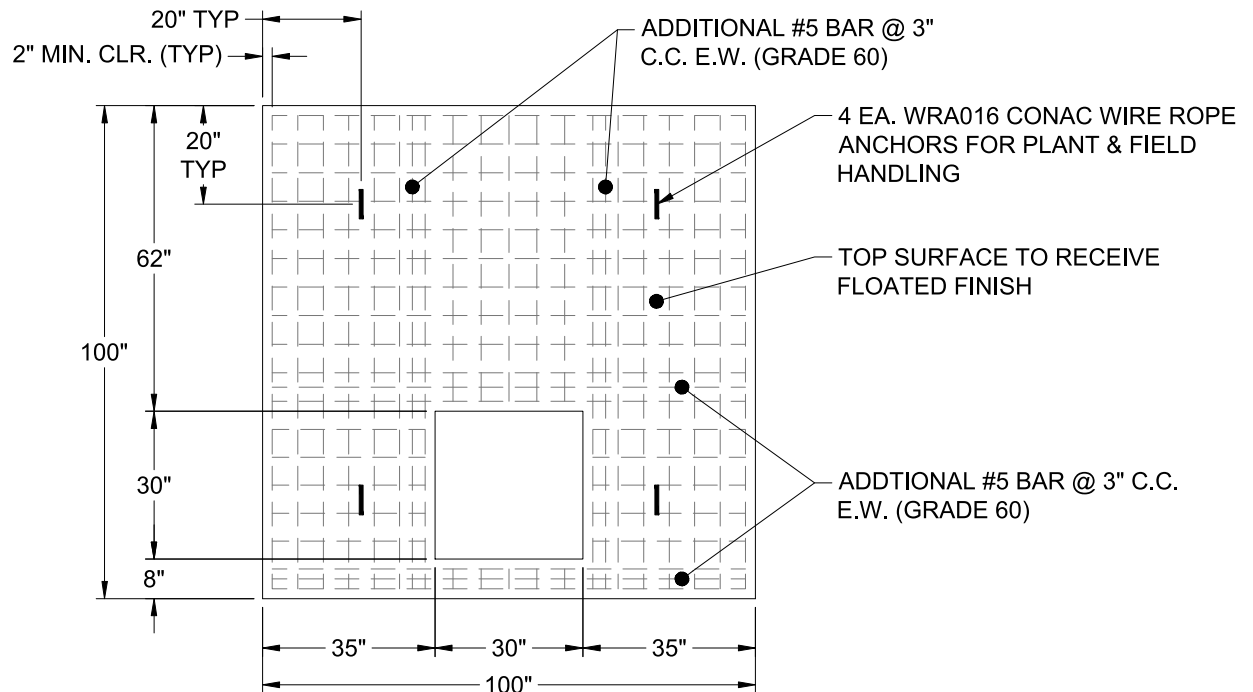
0 lb
218 lb
6109 lb
14274 lb
11548 lb
489 lb
0 lb
0 lb
0 lb
0 lb
0 lb

32637 lb

Structure Total:

Structure Notes:

1. PER ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT: #5 BAR @ 6" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)
- ADDITIONAL #5 BAR @ 3" C.C. E.W. (GRADE 60) AROUND 30" X 30" OPENING REQUIRED
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): 8"

Weight (Net): 6109 lb
Volume (Net): 1.56cu.yd

Job Name: 25-2073 - Alcoa Outfall

Job Location: Newburgh, IN

Contractor: Bowen Engineering Corporation

Plant: 100

6/16/2026 2:36:23 PM

Tech: J. Horsley

PC: A. Chambers



Structure ID: MH 2

P1 BX8484-08WVFV

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

P5) 30" x 30" - CASTING HEIGHT - 4"

P4) 30" x 30" - GRADE RING F/F - 3"

P3) 84" x 84" - CB FLAT TOP 8"W w/30"x30" ECC HOLE F/F - 8"

P2) 84" x 84" - BOX RISER 8inW, Variable Ht F/G - 16"

P1) 84" x 84" - BOX BASE 8inW, 8inF, Variable Ht T/n - 82"

1) CASTING - HOE 468 F/G

1) SECONDARY POUR

2) 84" x 84" - Conseal CS-102 1.00"

1) SQ. Hole n/n - 72"x42"

1) SQ. Hole n/n - 68"x42"

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

0 lb

218 lb

6109 lb

3953 lb

23023 lb

489 lb

0 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 33791 lb

Structure Notes:

1. PER ASTM C-913 SPECIFICATIONS

2. CONCRETE: 4,500 PSI AT 28 DAYS

3. REINFORCEMENT: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP)

- WET STICK 24" X 34" #5 L-BAR @ 12" C.C. E.W. (GRADE 60) OUT OF FLOOR FOR WALL POUR TIE-IN (SEE L-BAR DETAIL)

4. STORM INVERT BY OTHERS

5. STEPS AT 0 DEGREES

6. HOE 468 FRAME & GRATE SUPPLIED BY ICAST

FIRST POUR (FLOOR): 6,713 LBS

SECOND POUR (WALLS): 16,310 LBS

Rim: 395.29'

Rim to Invert: 8.79'

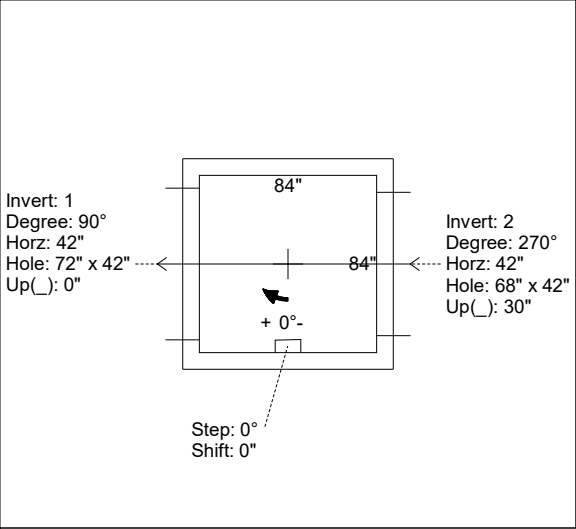
Slack: 0.48"

Sump: 8"

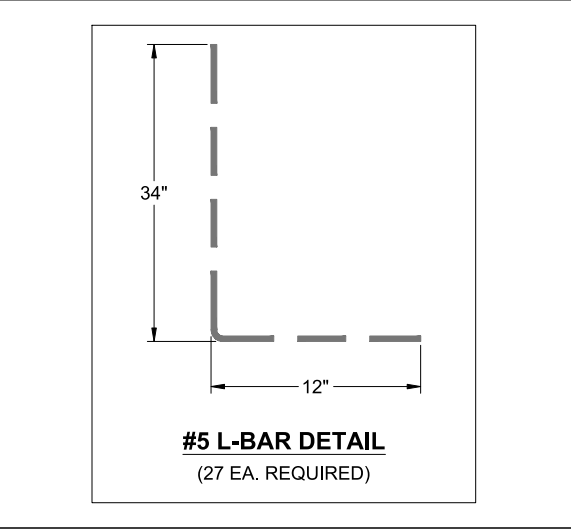
Step Position: 0°

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	386.5'	90°	50"	48" x 24" BOX CULV. (8W8F8T)	64" x 40"	SQ. Hole 72"x42"	72" x 42"	72"	0"	0"
Invert 2	389'	270°	50"	48" x 24" BOX CULV. (8W8F8T)	64" x 40"	SQ. Hole 68"x42"	68" x 42"	68"	30"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



UPSIDE-DOWN VIEW (int. dimensions)



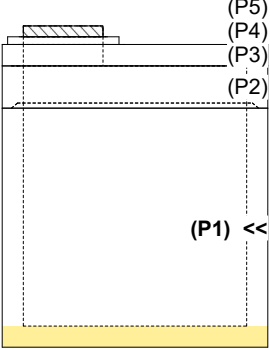
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(P4)

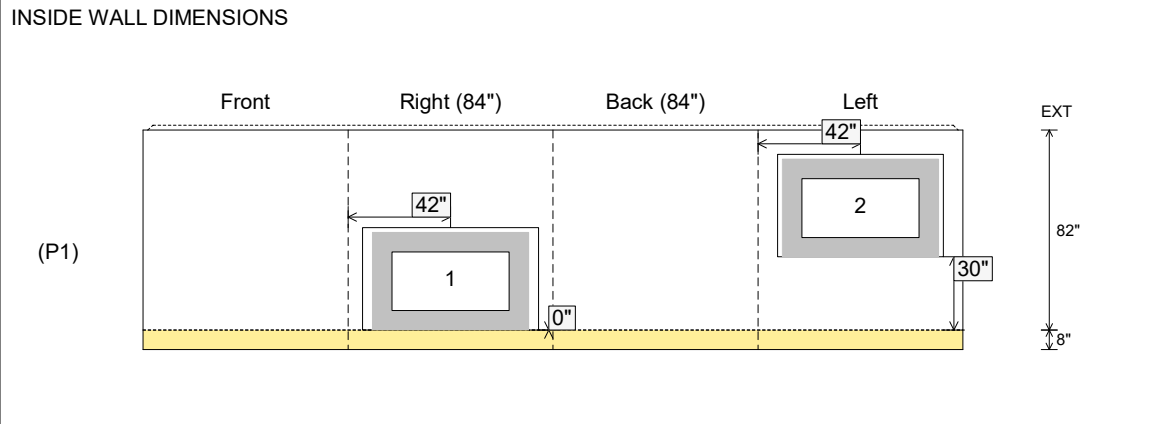
(P3)

(P2)

(P1) <<



INSIDE WALL DIMENSIONS



Coating (Int):

Coating (Ext):

Seam Up: Tongue

Seam Dn: n/a

Wall Thickness: 8"

Floor Height: 8"

Height (Int): 82"

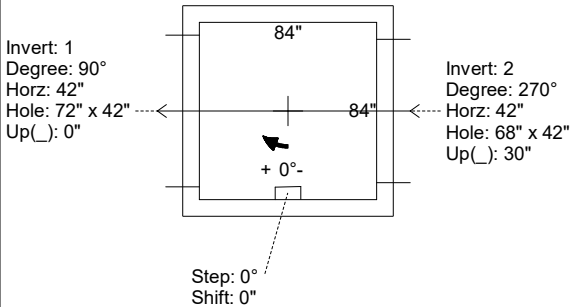
Height (Ext): 90"

Weight (Net): 23023 lb

Volume (Net): 5.88cu.yd

Job Name: 25-2073 - Alcoa Outfall Job Location: Newburgh, IN Contractor: Bowen Engineering Corporation				Plant: 100 6/16/2026 2:36:23 PM		Tech: J. Horsley PC: A. Chambers				
Structure ID: MH 2										
P1 BX8484-08WVVF				BOX BASE 8inW, 8inF, Variable Ht T/n						
P5) 30" x 30" - CASTING HEIGHT - 4" P4) 30" x 30" - GRADE RING F/F - 3" P3) 84" x 84" - CB FLAT TOP 8"W w/30"x30" ECC HOLE F/F - 8" P2) 84" x 84" - BOX RISER 8inW, Variable Ht F/G - 16" P1) 84" x 84" - BOX BASE 8inW, 8inF, Variable Ht T/n - 82" 1) CASTING - HOE 468 F/G 1) SECONDARY POUR 2) 84" x 84" - Conseal CS-102 1.00" 1) SQ. Hole n/n - 72"x42" 1) SQ. Hole n/n - 68"x42" 7) MH Step ML-10-TDS-NCR - 10" FIRST POUR (FLOOR): 6,713 LBS SECOND POUR (WALLS): 16,310 LBS					0 lb 218 lb 6109 lb 3953 lb 23023 lb 489 lb 0 lb 0 lb 0 lb 0 lb 0 lb Structure Total: 33791 lb		<u>Structure Notes:</u> 1. PER ASTM C-913 SPECIFICATIONS 2. CONCRETE: 4,500 PSI AT 28 DAYS 3. REINFORCEMENT: #5 BAR @ 8" C.C. E.W. (GRADE 60) - 2" MIN. REBAR CLEARANCE (TYP) - ADDITIONAL REBAR REQUIRED AROUND OPENINGS FOR INVERTS 1 & 2 4. STORM INVERT BY OTHERS 5. STEPS AT 0 DEGREES 6. HOE 468 FRAME & GRATE SUPPLIED BY ICAST 7. LIFTERS: 4 EA. 6CA14 CONAC A-ANCHORS FOR PLANT & FIELD HANDLING - INSTALLED IN 0° & 180° WALLS, 24" FROM TOP OF WALLS			
Rim: 395.29' Rim to Invert: 8.79' Slack: 0.48" Sump: 8" Step Position: 0°										
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	386.5'	90°	50"	48" x 24" BOX CULV. (8W8F8T)	64" x 40"	SQ. Hole 72"x42"	72" x 42"	72"	0"	0"
Invert 2	389'	270°	50"	48" x 24" BOX CULV. (8W8F8T)	64" x 40"	SQ. Hole 68"x42"	68" x 42"	68"	30"	0"
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

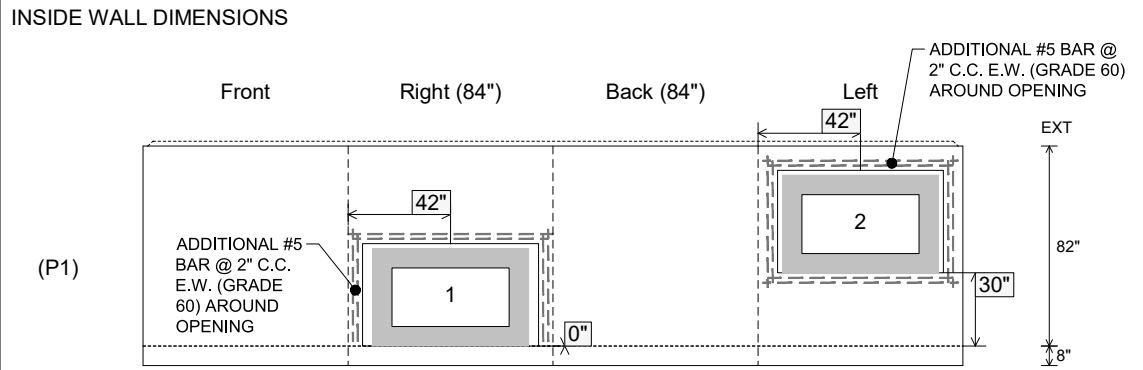
RIGHT-SIDE UP VIEW (int. dimensions)



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): 82" Height (Ext): 90"	Weight (Net): 23023 lb Volume (Net): 5.88cu.yd
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Weight (Net): 12287 lb
Volume (Net): 3.14cu.yd

Job Name: 25-3062 Portland Bypass
Job Location: Portland, TN
Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam
6/1/2026 8:23:20 AM

Tech: J. Coppage
PC: C. Goff



Structure ID: MD-6

P1 BX4896-08BAVF

BOX BASE 8inW, 8inF, Variable Ht

- P2) 48" x 96" - CASTING HEIGHT - 0"
P1) 48" x 96" - BOX BASE 8inW, 8inF, Variable Ht - 69"
1) SECONDARY POUR - WALLS
1) CASTING - JBS TYPE 40 TDOT GRATES (48" X 96")
1) 48" x 96" - SGL 1"x14.5' Butyl (2x)
1) Hole - 32
2) Hole - 26

Structure Total: 18840 lb

- Structure Notes:
1. PER ASTM C913 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. JBS TDOT TYPE 40 BY ICAST
 4. REINFORCING PER TDOT DRAWING D-CB-40S ASTM A615 (GRADE 60).
 5. PRODUCTION TO PLACE A 4.5" DEEP X 2" WIDE RECESS IN THE TOP INSIDE OF THE 90 DEGREE AND THE 270 DEGREE WALL OF THE BASE.

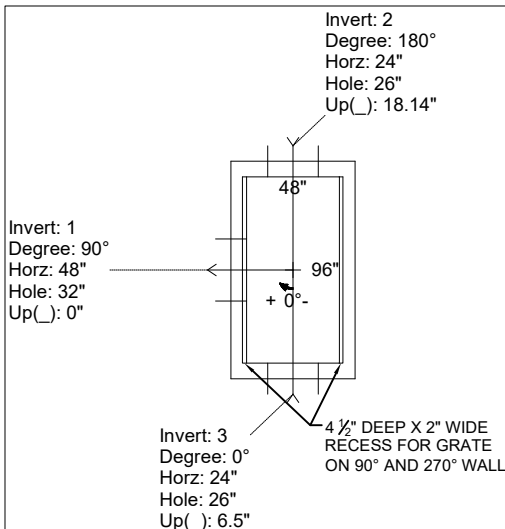
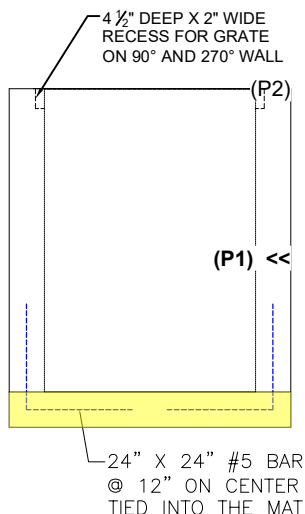
FIRST POUR DRAWING

Rim: 800.04' Rim to Invert: 5.54' Slack: 0.48" Sump: 3" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	794.5'	90°	56"	24" RCP B WALL	30"	Hole 32	32"	32"	0"	0"
Invert 2	795.97'	180°	32"	18" RCP B WALL	23"	Hole 26	26"	26"	18.14"	0"
Invert 3	795'	0°	32"	18" RCP B WALL	23"	Hole 26	26"	26"	6.5"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



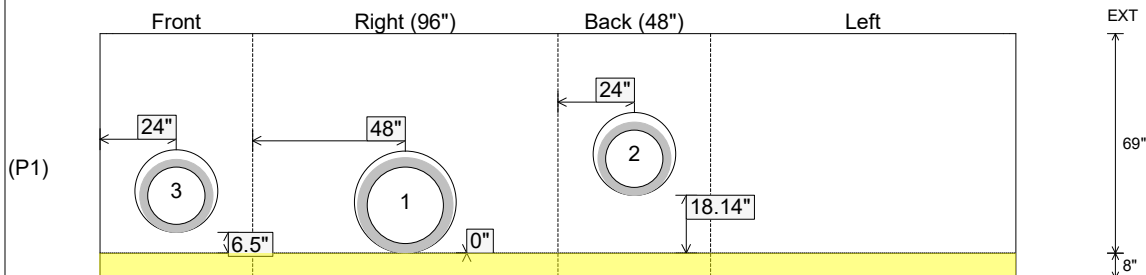
WEIGHT

FIRST POUR: 4,812 LBS

SECOND POUR: 13,569 LBS

TOTAL: 18,381 LBS

INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

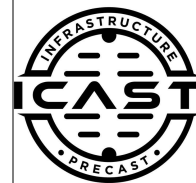
Height (Int): 69"
Height (Ext): 77"

Weight (Net): 18381 lb
Volume (Net): 4.7cu.yd

Job Name: 25-3062 Portland Bypass
Job Location: Portland, TN
Contractor: Scotty's Contracting & Stone, LLC

Plant: Beaver Dam
6/1/2026 8:23:20 AM

Tech: J. Coppage
PC: C. Goff



Structure ID: MD-6

P1 BX4896-08BAVF

BOX BASE 8inW, 8inF, Variable Ht

- P2) 48" x 96" - CASTING HEIGHT - 0"
P1) 48" x 96" - BOX BASE 8inW, 8inF, Variable Ht - 69"
1) SECONDARY POUR - WALLS
1) CASTING - JBS TYPE 40 TDOT GRATES (48" X 96")
1) 48" x 96" - SGL 1"x14.5' Butyl (2x)
1) Hole - 32
2) Hole - 26

Structure Total: 18840 lb

- Structure Notes:**
1. PER ASTM C913 SPECIFICATIONS.
 2. CONCRETE = 4,000 PSI AT 28 DAYS.
 3. JBS TDOT TYPE 40 BY ICAST
 4. REINFORCING PER TDOT DRAWING D-CB-40S ASTM A615 (GRADE 60).
 5. PRODUCTION TO PLACE A 4.5" DEEP X 2" WIDE RECESS IN THE TOP INSIDE OF THE 90 DEGREE AND THE 270 DEGREE WALL OF THE BASE.

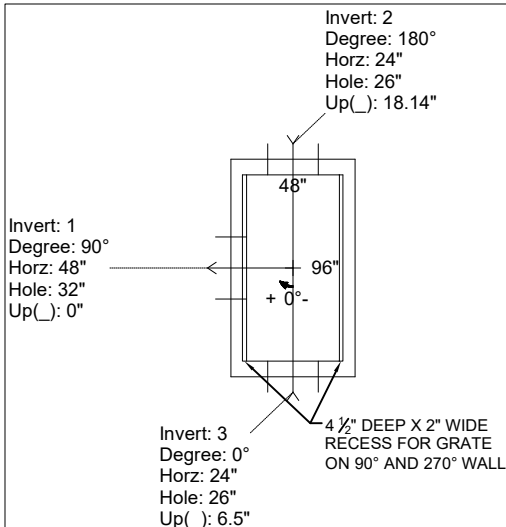
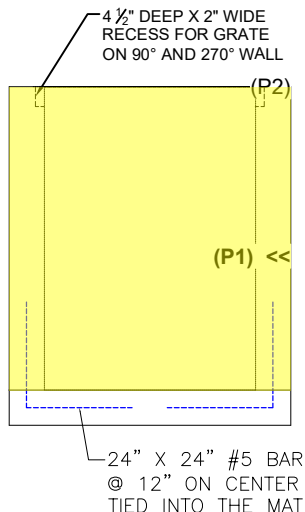
SECOND POUR DRAWING

Rim: 800.04' Rim to Invert: 5.54' Slack: 0.48" Sump: 3" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ()	Offset
Invert 1	794.5'	90°	56"	24" RCP B WALL	30"	Hole 32	32"	32"	0"	0"
Invert 2	795.97'	180°	32"	18" RCP B WALL	23"	Hole 26	26"	26"	18.14"	0"
Invert 3	795'	0°	32"	18" RCP B WALL	23"	Hole 26	26"	26"	6.5"	0"
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

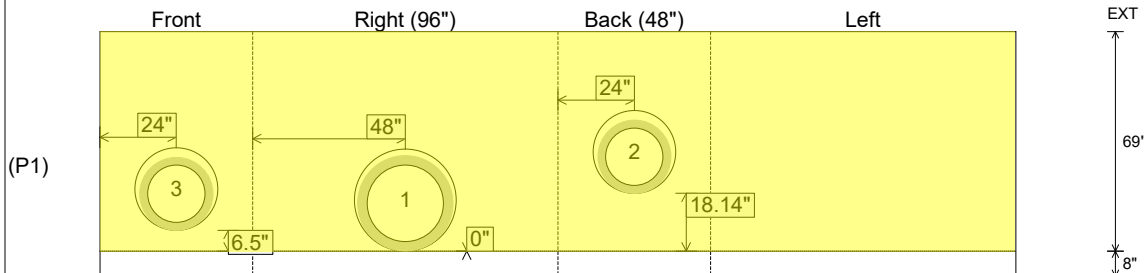
RIGHT-SIDE UP VIEW (int. dimensions)

UPSIDE-DOWN VIEW (int. dimensions)



WEIGHT
FIRST POUR: 4,812 LBS
SECOND POUR: 13,569 LBS
TOTAL: 18,381 LBS

INSIDE WALL DIMENSIONS



Coating (Int):
Coating (Ext):

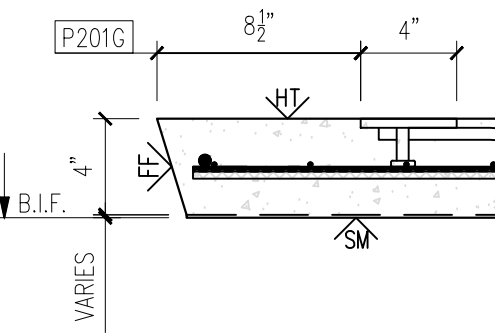
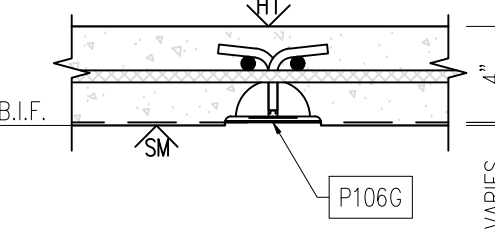
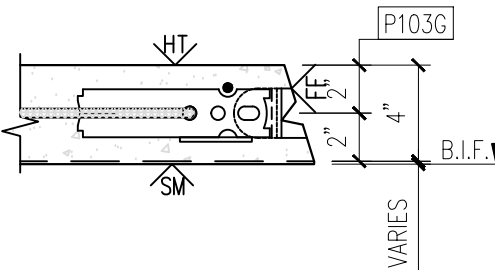
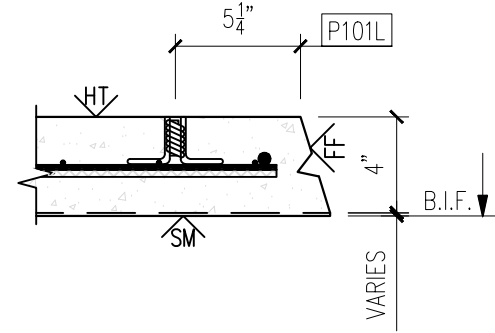
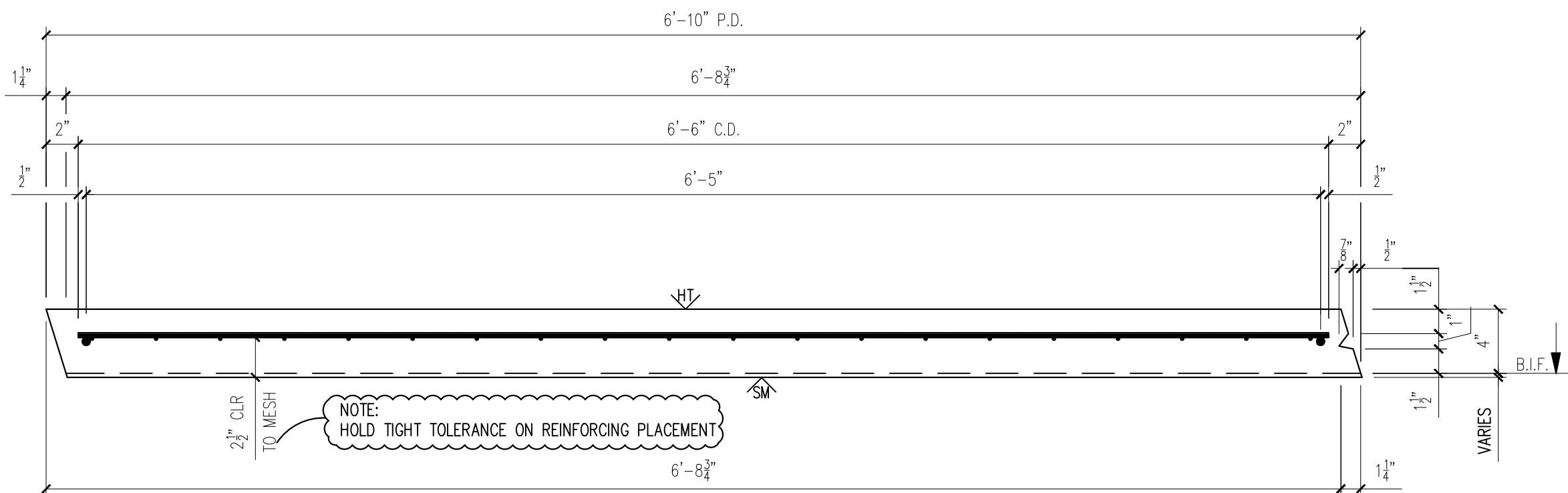
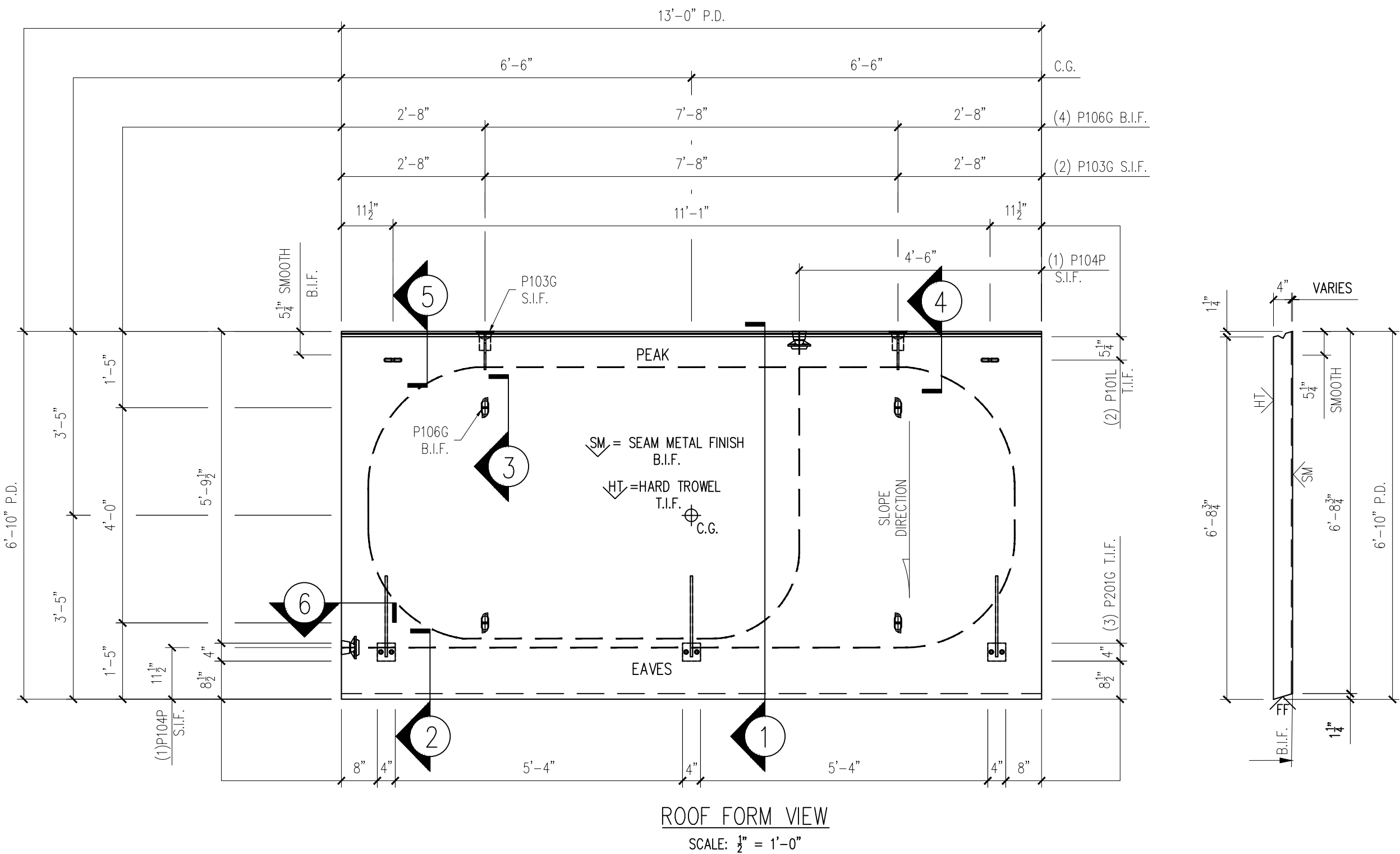
Seam Up: Flat
Seam Dn: n/a

Wall Thickness: 8"
Floor Height: 8"

Height (Int): 69"
Height (Ext): 77"

Weight (Net): 18381 lb
Volume (Net): 4.7cu.yd

25-4604 - Nashville Road Sewer Interceptor
Precast Building
Product ID - CVT
ROOF - BRFG-10
Weight - 4,650 LBS Each



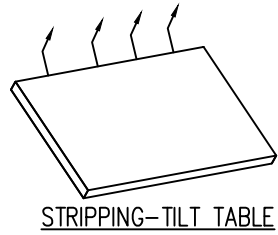
MESSAGE CENTER

1. REFER TO DETAILS FOR REINFORCEMENT/CABLE PLACEMENT
2. SHOP TICKET SHOWS EXTERIOR FINISH CAST FACE DOWN

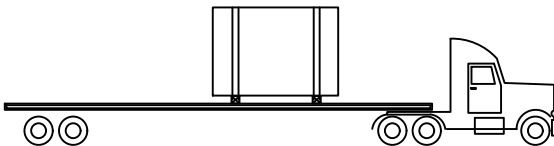
CHECKED BY: DATE:
APPROVED BY: DATE:

BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY.
P201G	4"x4"x8' W/(2) 8' X 1 1/2" H.A.S. W/ 1'-4" BENT REBAR (GALV.)	3
P103G	2 TON TECH ERECTION ANCHOR (GALV.)	2
P104P	U-5 POST TENSION ANCHOR (PLAIN) WITH PLASTIC POCKET	2
P106G	2 TON PLATE ANCHOR (GALV.)	4
P101L	1/2" X 1 1/2" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	2

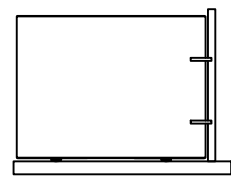
HANDLING INSTRUCTIONS



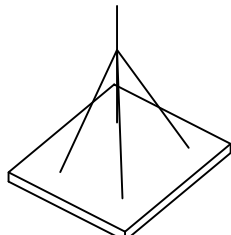
STRIPPING-TILT TABLE



SHIPPING



YARD STORAGE



ERECTION

CONCRETE INSTRUCTIONS

CONCRETE RELEASE @ 2,500 P.S.I.
CONCRETE @ 28 DAYS: 5,000 P.S.I.
POST-TENSION @ 3,500 P.S.I.

CONCRETE MIXES

CONCRETE - GRAY	VOLUME = 1.14 C.Y.
CONCRETE - MIX 1	VOLUME = - C.Y.
CONCRETE - MIX 2	VOLUME = - C.Y.
SOFT SOUND	VOLUME = - C.Y.
TOTALS	VOLUME = 1.14 C.Y.

WEIGHT: 4,650 LBS.

FINISHING INSTRUCTIONS

SM = SEAM METAL FINISH
HT = HARD TROWEL

L = 13'-0"	SQ.FT.(T.I.F.) = 87.49
W = 6'-10"	SQ.FT.(T.I.F.) = -
D = 4"	SQ.FT.(T.I.F.) = -

CONTROL NUMBERS:

PRODUCT BUILDING	SALES ORDER NUMBER -
SHEET NUMBER 1 OF 2	NUMBER REQUIRED 2

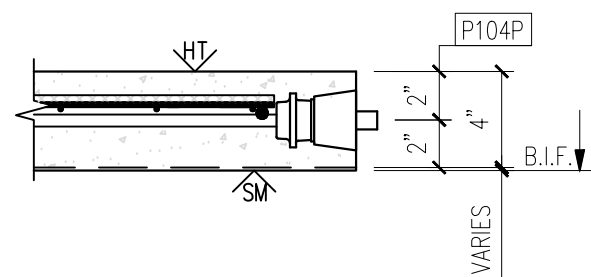
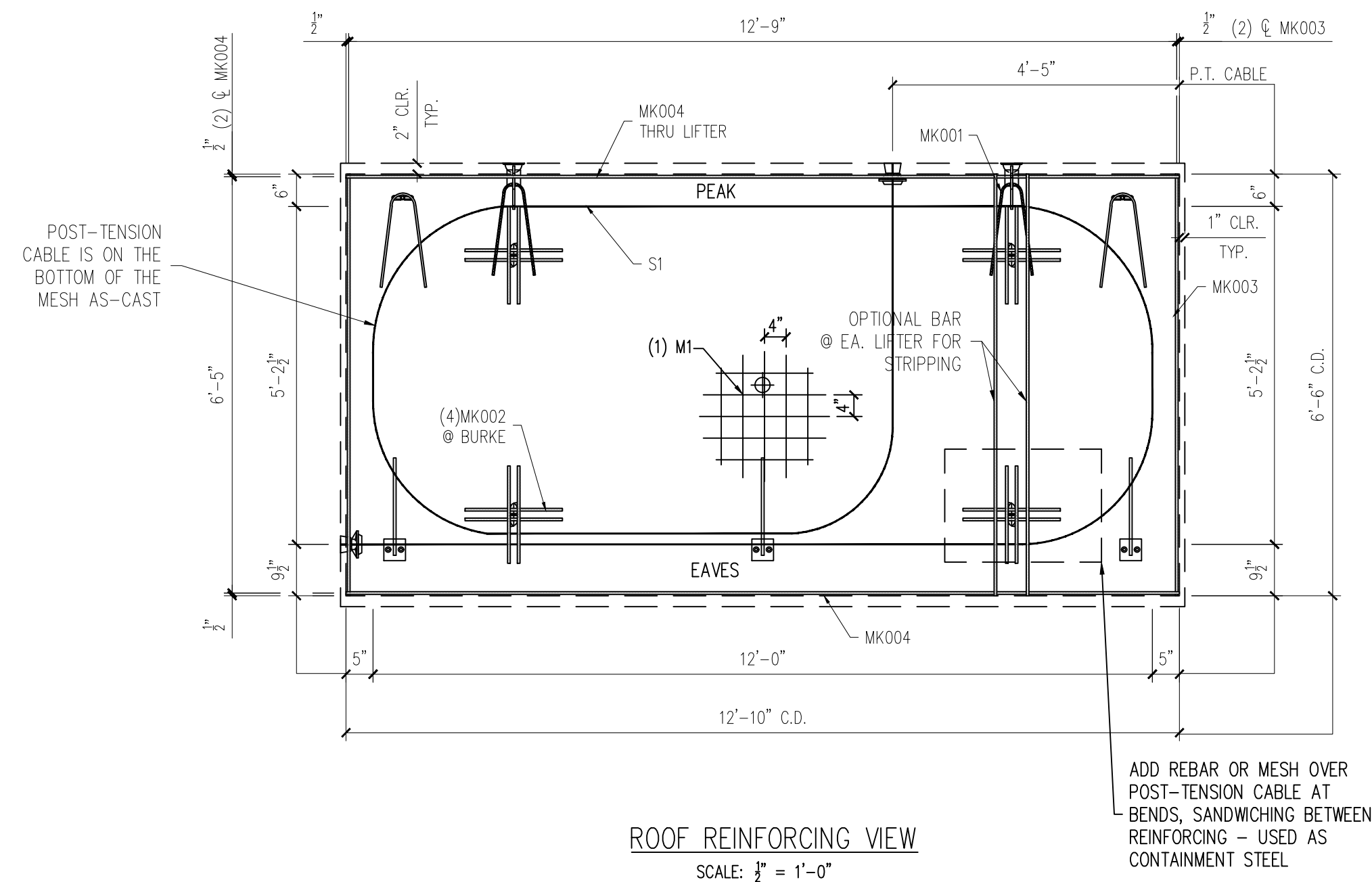
REV	INI.	DESCRIPTION	DATE
1			
2			
3			
4			
5			

PROJECT: 12'x12' STANDARD EASI-SET GABLED BUILDING
NASHVILLE ROAD INTERCEPTOR
BOWLING GREEN, KY
CONTRACTOR: INFINITY PIPELINE, LLC/WARREN COUNTY WATER DISTRICT

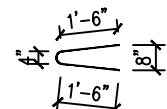
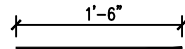
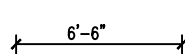
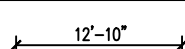
SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 03.30.26
PIECE MARK BRFG-10 (1)

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www.EasiSet.com • 800-547-4045 • Fax 540-439-2541

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



6

REINFORCING SCHEDULE			
MARK	#	DESCRIPTION	QTY.
MK001	#3 X 3'-0"		4
MK002	#4 X 1'-6"		16
MK003	#3 X 6'-6"		2
MK004	#3 X 12'-10"		2
S1	$\frac{1}{2}$ " ϕ X 47'-0" LONG P.T. CABLE		1
MESH SCHEDULE			
MARK	#	DESCRIPTION	QTY.
M1	W4XW4 4"x4" WWF	12'-10" X 6'-6"	1

[illegible]

PROJECT: 12'x12' STANDARD EASI-SET GABLED BUILDING
NASHVILLE ROAD INTERCEPTOR
BOWLING GREEN, KY
CONTRACTOR: INFINITY PIPELINE, LLC/WARREN COUNTY WATER DISTRICT

SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 03.30.26
PIECE MARK BRFG-10 (1)

EAST EASI-SET® WORLDWIDE

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MESSAGE CENTER

1. REFER TO DETAILS FOR
REINFORCEMENT/CABLE PLACEMENT

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

CHECKED BY: _____ DATE: _____

APPROVED BY: _____ DATE: _____

NOTES:

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

PRODUCT	SALES ORDER NUMBER
BUILDING	-

<u>SHEET NUMBER</u>	<u>NUMBER REQUIRED</u>
2 OF 2	2

STRESSING PROCEDURES For Roofs and Floors – Model G121209C

1. Remove form rails. Verify concrete strength with Schmidt Hammer or cylinder breaks. Concrete shall be a minimum of 3,750 PSI before cable can be stressed.
2. Remove recessed plastic pocket-formers at the post-tensioning anchor.
3. Remove the plastic sheath from the strand all the way from the base of the anchor to the end of the strand. Clean off grease from exposed portion of cable. Use a suitable solvent. Never heat or use flame on the cable.
4. Insure that the tapered holes in the anchors are cleaned and free of any debris or cement paste, which might interfere with proper wedge seating.
5. Install wedge sets around the strand at each anchor. Press the wedges in with the fingers evenly. Then, using a hand wedge setter, engage the wedges securely so that the stress will be evenly distributed over the wires of the strand.
6. Slide the stressing jack over the cable and place against the wedges installed in the cast-in anchors (see details A & B).
7. Using manufacturer recommendations, properly secure the stressing jack to the strand.
9. Standing back from the system, engage the jack to stress the strands until the pump pressure gauge corresponds to 33 K required tension on the ½” cable and note the elongation achieved. Whenever stressing, be sure to observe safety precautions and operator positioning in anticipation of unexpected failures.
NOTE: Force in the tendons shall always be measured by gauge readings and verified by elongation. Compare the elongation noted during stressing to the theoretical (calculated) elongation to ensure proper pull (tension) is reached. Refer to industry manuals (PCI) for the proper methods of calculating elongation.
10. Release pump pressure slowly and remove the jacking system and temporary stressing anchor. Your post release tension on the cable will be 28.5 K.
11. Cut off strand tails at 1” from the wedge and pack the holes with permanent grout. Repeat procedure for other end of cable

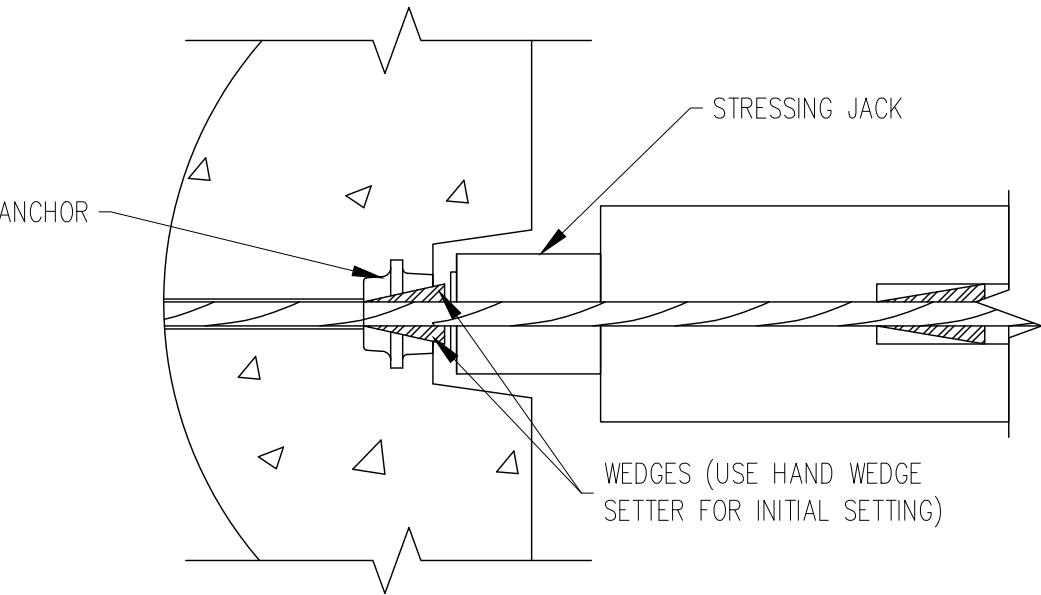
25-4604 - Nashville Road Sewer Interceptor
Precast Building
Product ID - CVT
ROOF - BRFG-10
Weight - 4,650 LBS Each
2 Required

SAFETY INSTRUCTIONS:

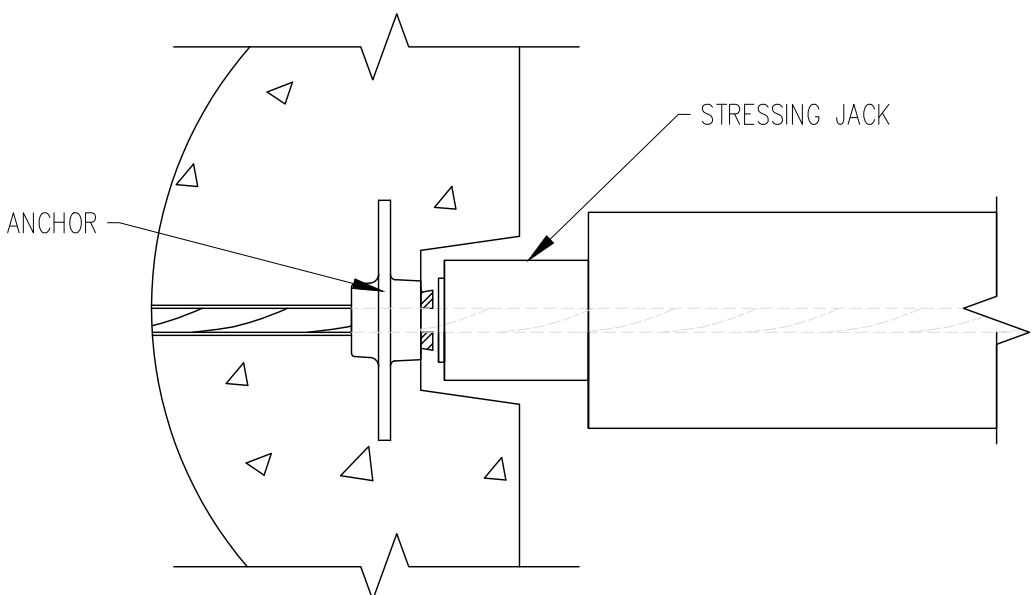
NOTE: Stressing units are calibrated against load cells to determine the gauge pressures for a particular unit which will produce the desired engineering force. Gauge pressure versus actual load calibration should be checked every six months against a load cell. Never use equipment which has not been tested in the last 6 months. The Quality Control Department has the responsibility to insure the stressing unit is calibrated semi-annually. Refer to manufacturer for calibration charts specifically relating to the particular unit (stressing jack).

ROOF AND FLOOR POST-TENSIONING Stressing System Safety Instructions:
This equipment is designed and built to provide safety during equipment operation. It must be operated and maintained by personnel who are trained in and follow safe procedures. Since the forces involved in tendon stressing are in the order of 33 to 46 kips, it is obvious that failure from any cause could be damaging to personnel and property. Accordingly, stressing equipment operators are expected to observe all applicable safety precautions including the following but not limited to:

1. Before activating the pump, visually check all elastomeric tubing for nicks, cracks, or other damage and repair or replace if required.
2. See that all tubing joints are tightly connected.
3. Be sure that pump is supported in a stable manner and positioned to avoid strain on connection lines.
4. Be sure that protective dunnage and appropriate safety barriers are erected to protect the operator and any others in the area.
5. Observe the gauge pressure that will develop the required tensile force as marked on the tag attached to the pump. Locate this reading on gauge face.
6. Be certain that tensioning twin-rams are positively engaged and correctly aligned.
7. Activate pump and observe gauge. If pressure does not build up promptly, check system for leakage and make sure that anchors and wedges on both ends of the POLYSTRAND® tendons are properly engaged. After an initial tension on the strand (5K), stop and check for alignment. Make sure that the strand is at the top of the slot provided in the tension jack cylinder connector plates.
8. Continue pumping until final pressure/force is attained. When stressing long tendons, multiple strokes and resetting the temporary anchor will be required. – CAUTION – pressure will build extremely fast if rams are fully extended. Monitor ram extension and gauge readings continuously.
9. When the correct force has been applied to the tendon, stop the pump motor and release the pressure on the pack by opening the hydraulic valve.
10. Use care in moving and storing equipment to insure that gauge and tubing are not damaged.
11. Observe site rules pertaining to frequency of gauge calibration.



A



B

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DATE	DESCRIPTION	INI.	REV.
			△
			△
			△
			△
			△

PROJECT: 12' X 12' X 9'-0"

EASI-SET CABLED BUILDING
BOWLING GREEN, KY
CONTRACTOR: INFINITY PIPELINE, LLC

STRESSING
PROCEDURES

SCALE
NTS

DRAWN BY
JAD

CHECK BY
WCR

ISSUE DATE
03.30.26

SHEET
P-02

PT Check for ROOF Panel (PCI MNL - 116)

Material Data

(7) Wire lo-lax Strand - ASTM A416
 Φ_{ps} = 0.500 in,
 A_s = 0.153 in²
 E_s = 28500000 psi
 f_{pu} = 270 ksi
 Strand Length = 528 in

Assume (Info supplied by strand manufacturer)

k = 0.0007 Wobble Friction Coeff.
 μ = 0.05 Curvature friction coeff. (Initial tension of 3,000 lbs)

Strand is to be stressed 70% of ultimate
 = 28917 lbs

Adjustments to tensioning

- 1) Dead end anchor wedge seating loss
 ~ Expected to be 1/8 in
- 2) Live end anchor wedge seating loss
 ~ Expected to be 1/8 in, recommend over pull 1/8"
- 3) Elastic Shortening
 Neglect for this pnl
- 4) Friction Loss
 Additional force to overcome frictional forces between strand and sheathing

Tensioning Computations

Basic Elongation = $\frac{(\text{Force required beyond initial tension}) (\text{Length of strand between anchorages})}{(\text{Area of strand}) (\text{Modulus of Elasticity})}$
 = 3.14 in

Adjustments

- a) Dead end anchor wedge seating: Add 1/8" to elong. No force adjustment req'd
 Add 1/8 in
- b) Live end seating: over pull by 1/8"
 1/8 in
- Force adjustment $t = \frac{1032 \text{ lbs}}{1032 \text{ lbs}} \alpha = \text{curvature} = \pi(2.5) = 7.85 \text{ radians}$
- c) Friction losses $\frac{PD}{PS} = e^{-\{kL + \mu\alpha\}}$
 = 0.655
 Avg. strand force = 0.827 17.26% Loss

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

Friction loss at mid-point of tendon

$\frac{PD}{PS} = e^{-\frac{\{kL + \mu\alpha\}}{2}}$
 = 0.809
 Avg. strand force over half of tendon = 0.905 9.54% Loss

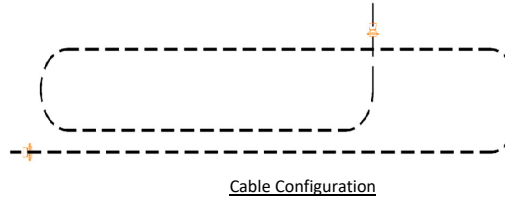
Total force and elongation at live end must be increased to compensate for friction losses

Elong. Adjustment = 0.299 in
 Force Adjustment = 2759 lbs

Total Force Required = 32708 lbs **OK**

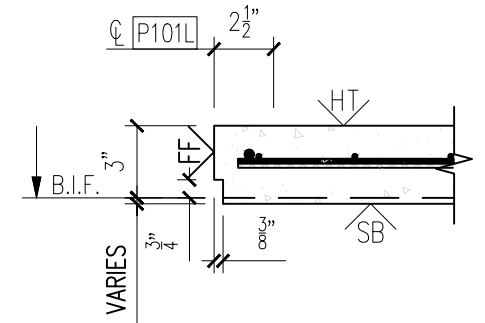
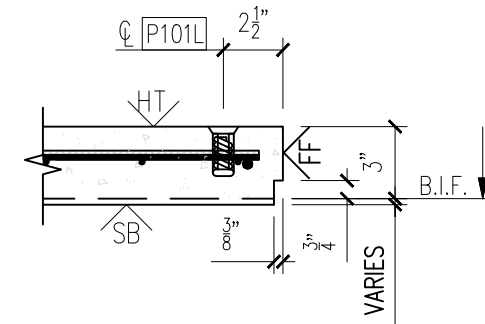
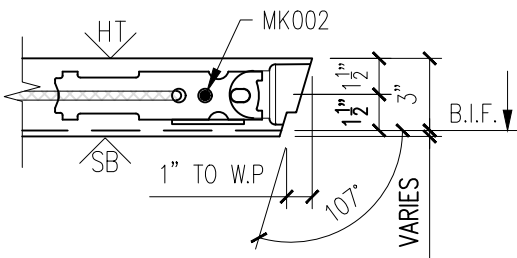
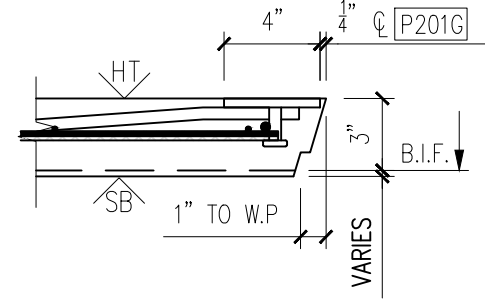
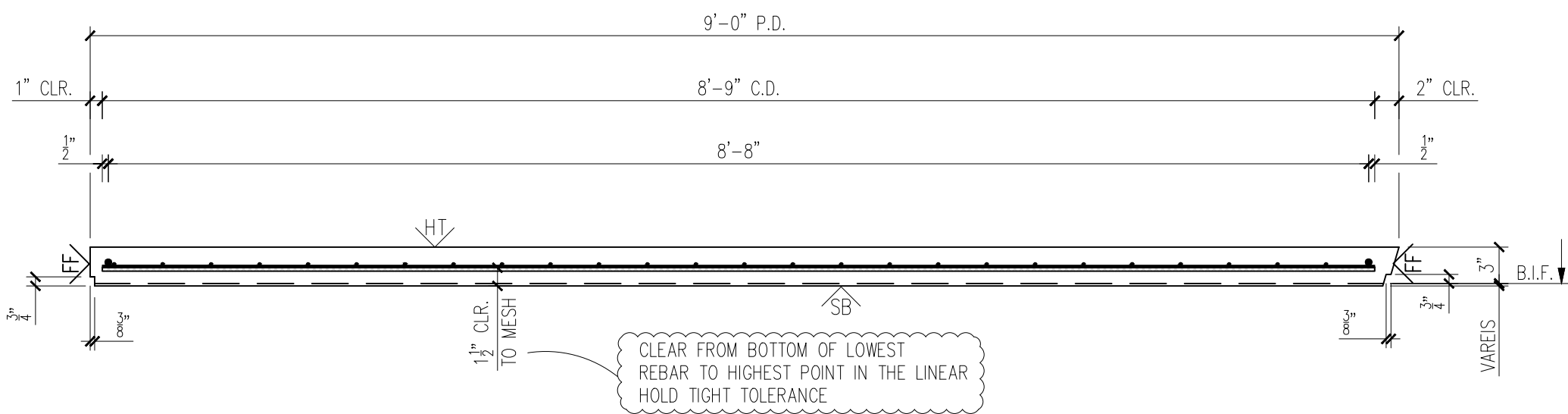
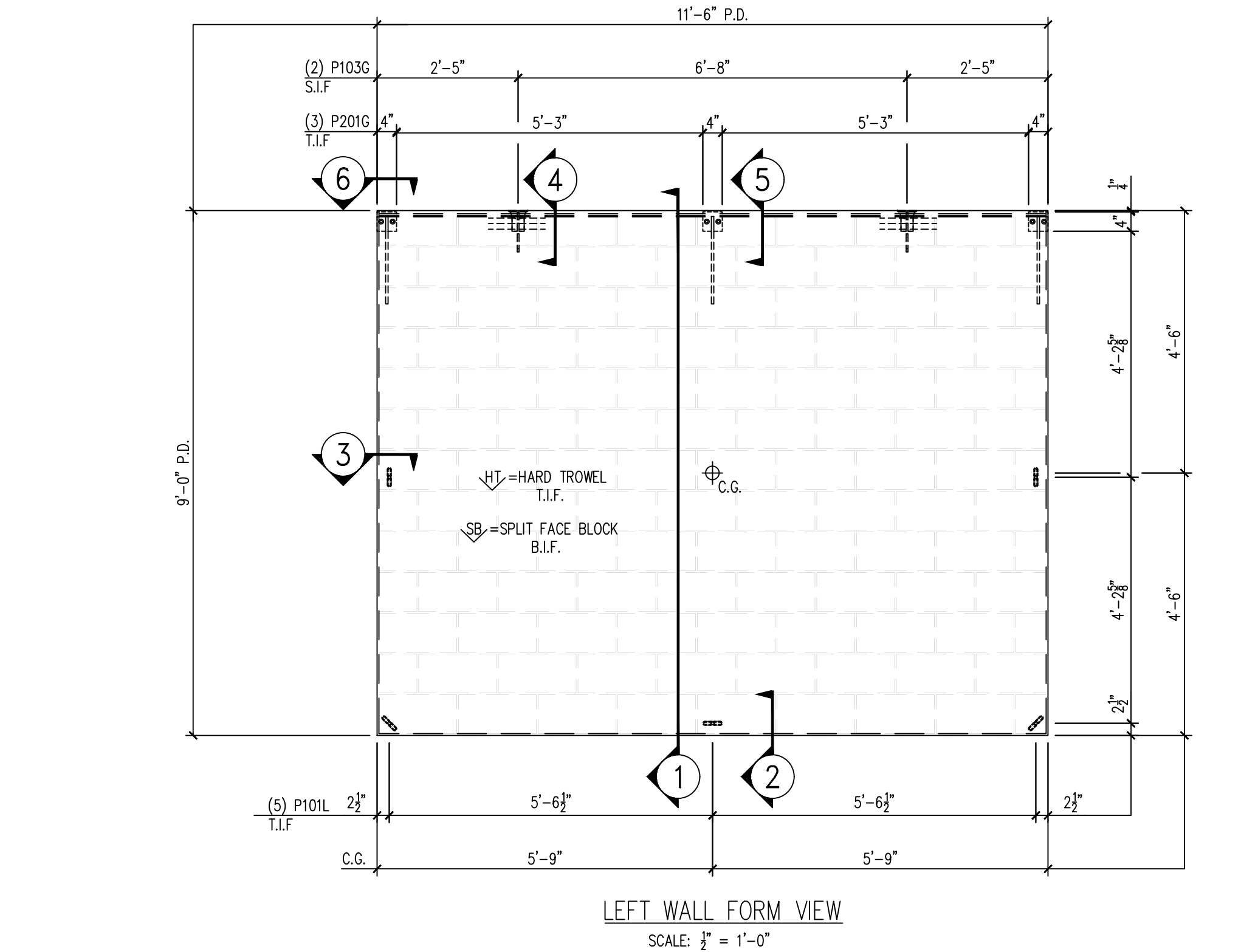
Elongation Summary:

Gross Theoretical Elongation			
Basic Elongation	3.14 in		
Dead End Seating Loss	0.125 in		
Live End Seating Loss	0.125 in		
Friction Losses	0.299 in		
Total Elongation	3.69 in		
Rounded	3 11/16 in		
Tolerance limits	-7.0%	3.43 in	3 7/16 in
	+7.0%	3.95 in	3 15/16 in



25-4604 Nashville Road Sewer Interceptor Precast Bldg. Stressing Procedures

25-4604 - Nashville Road Sewer Interceptor
Precast Building
Product ID - CVW
LEFT WALL - BSDG-10
Weight - 4,175 LBS Each
1 Required



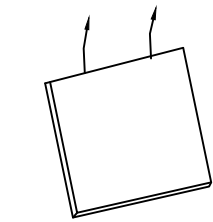
MESSAGE CENTER

- REFER TO DETAILS AND SECTION FOR REINFORCEMENT PLACEMENT
- SHOP TICKET SHOWS EXTERIOR FINISH CAST FACE DOWN

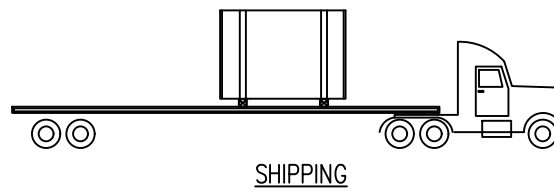
CHECKED BY: DATE:
APPROVED BY: DATE:

BILL OF MATERIALS		
MARK #	DESCRIPTION	QTY.
P201G	4"x4"x8 3/8"W/(2) 3/8" x 1 1/2" H.A.S. W/ 1'-4" BENT REBAR (GALV.)	3
P103G	2 TON TECH ERECTION ANCHOR (GALV.)	2
P101L	1/2" x 1 1/2" F-63 FLARED THIN SLAB COIL INSERT (ELECTROPLATED)	5

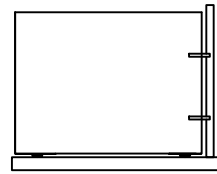
HANDLING INSTRUCTIONS



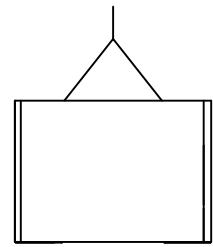
STRIPPING-TILT TABLE



SHIPPING



YARD STORAGE



ERECTION

CONCRETE INSTRUCTIONS		
CONCRETE RELEASE @ 2,500 P.S.I.		
CONCRETE @ 28 DAYS: 5,000 P.S.I.		
CONCRETE MIXES		
CONCRETE - GRAY	VOLUME = 1.03	C.Y.
CONCRETE - MIX 1	VOLUME = -	C.Y.
CONCRETE - MIX 2	VOLUME = -	C.Y.
SOFT SOUND	VOLUME = -	C.Y.
TOTALS	VOLUME = 1.03	C.Y.
WEIGHT: 4,175 LBS.		
FINISHING INSTRUCTIONS		
SB = SPLIT FACE BLOCK FINISH		
FF = FORM FINISH		
HT = HARD TROWEL FINISH		
H = 11'-6"	SQ.FT.(T.I.F.) = 102.71	
W = 9'-0"	SQ.FT.(T.I.F.) = -	
D = 3"	SQ.FT.(T.I.F.) = -	
CONTROL NUMBERS:		
-		

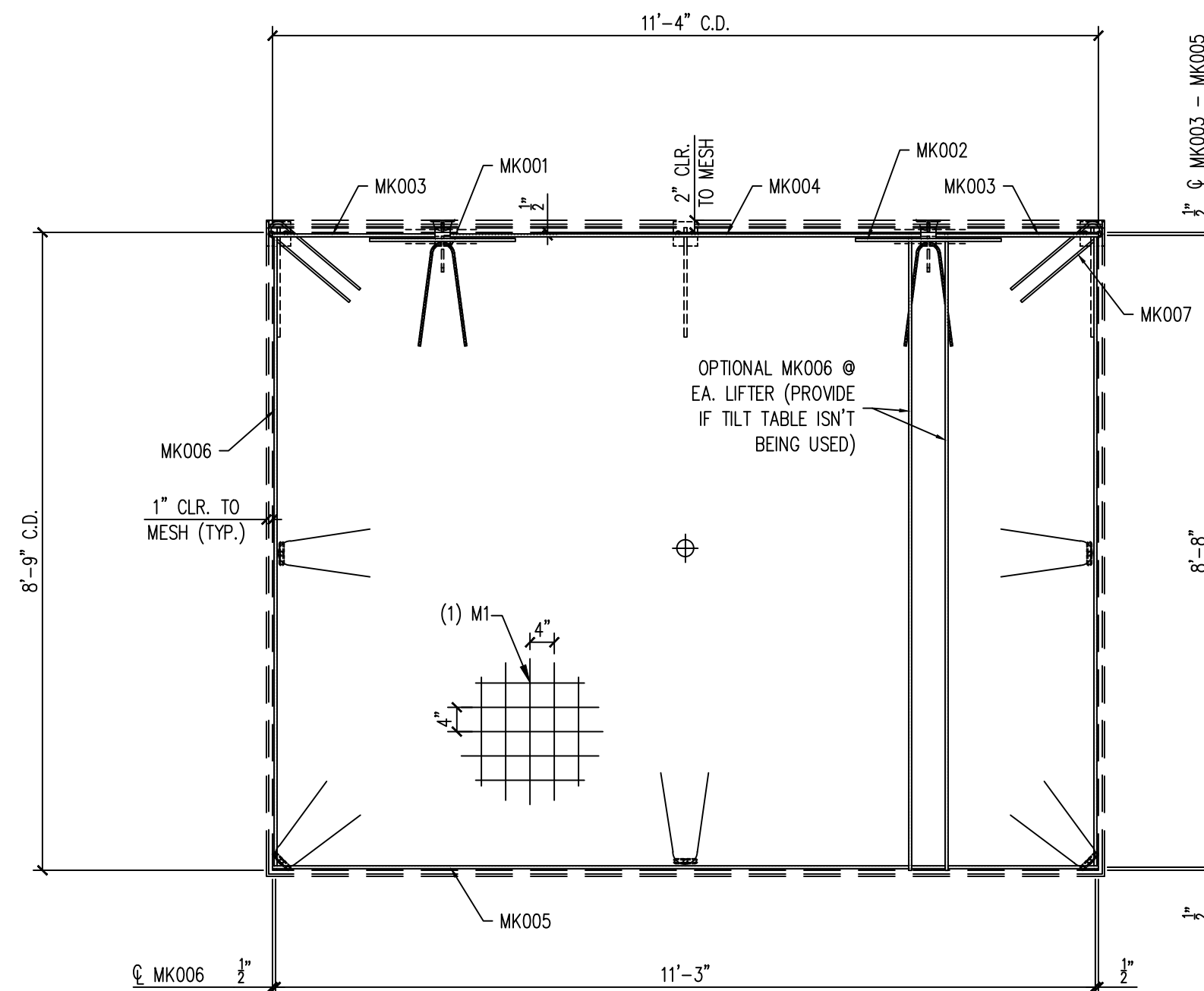
PRODUCT	SALES ORDER NUMBER
BUILDING	-
SHEET NUMBER	NUMBER REQUIRED
1 OF 2	1

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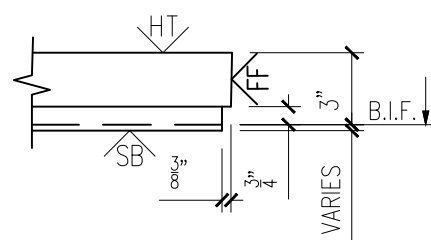
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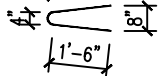
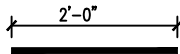
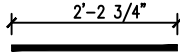
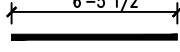
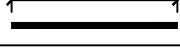
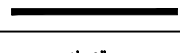
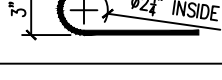
PROJECT: 12'x12' STANDARD EASI-SET GABLED BUILDING
NASHVILLE ROAD INTERCEPTOR
BOWLING GREEN, KY
CONTRACTOR: INFINITY PIPELINE, LLC/WARREN COUNTY WATER DISTRICT

SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 03.30.26
PIECE MARK BSDG-10 (1)



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



REINFORCING SCHEDULE			
MARK	#	DESCRIPTION	QTY.
MK001	#3 X 3'-0"		7
MK002	#3 X 2'-0"		2
MK003	#3 X 2'-2 3/4"		2
MK004	#3 X 6'-5 1/2"		1
MK005	#3 X 11'-4"		1
MK006	#3 X 8'-9"		2
MK007	#3 X 3'-1"		2
MESH SCHEDULE			
MARK	#	DESCRIPTION	QTY.
M1	W4XW4 4"x4" WWF	11'-4" x 8'-9"	1

DATE	DESCRIPTION	INI.	REV.
			△
			△
			△
			△
			△

PROJECT: 12'x12' STANDARD EASI-SET GABLED BUILDING
NASHVILLE ROAD INTERCEPTOR
BOWLING GREEN, KY
CONTRACTOR: INFINITY PIPELINE, LLC/WARREN COUNTY WATER

SCALE NTS
DRAWN BY FTL
CHECK BY WCR
ISSUE DATE 03.30.26
PIECE MARK BSDG-10 (1)

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MESSAGE CENTER

1. REFER TO DETAILS AND SECTION FOR REINFORCEMENT PLACEMENT
2. SUPPLEMENTAL STEEL FOR STRIPPING AND HANDLING MAY BE ADDED AS REQUIRED.

NOTE:

1. CONSTRUCT REBAR-MESH CAGE ACCORDING TO THE DRAWINGS. SECURE LIFTING APPARATUS TO FORM AND ADD PROPER REINFORCEMENT. PLACE REBAR-MESH CAGE AND HAIRPINS AT INSERTS WITH PROPER CLEARANCES (PER DRAWINGS).

CHECKED BY: _____ DATE: _____

APPROVED BY: _____ DATE: _____

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