

Job Name: 25-4593 - 823277 Central Ramp Expansion BNA  
 Job Location: Nashville, TN  
 Contractor: Contech Engineering Solutions

Plant: Beaver Dam, KY  
 1/6/2026 10:25:13 AM

Tech: J. Coppage  
 PC: T. Sekula



**Structure ID: 030-CDS5678-10-C**

**P4 MH120RS96**

**MH RISER**

- P9) 24" - CASTING HEIGHT - 4"
- P8) 24" - GRADE RING - 4"
- P7) 24" - GRADE RING - 6"
- P6) 120" - MH FLAT TOP SPEC. (2 - 24"Ø HOLES) - 18"
- P5) 120" - MH RISER Custom Ht - 40"
- P4) 120" - MH RISER - 96"
- P3) 120" - MH RISER Custom Ht - 82"
- P2) 120" - MH RISER Custom Ht - 38"
- P1) 120" - MH BASE SLAB - 6"
- 1) CVSTENCILING
- 1) SECONDARY POUR - Separation Slab\*
- 5) 120" - Conseal CS-102 1.00"
- 2) Hole - 42

**\*\*USE REINFORCEMENT  
 INFORMATION PROVIDED  
 BY CONTECH\*\***

0 lb  
 270 lb  
 405 lb  
 16223 lb  
 15195 lb  
 33863 lb  
 31150 lb  
 14435 lb  
 14760 lb  
 0 lb  
 10363 lb  
 0 lb  
 0 lb  
 -----  
 Structure Total: 136664 lb

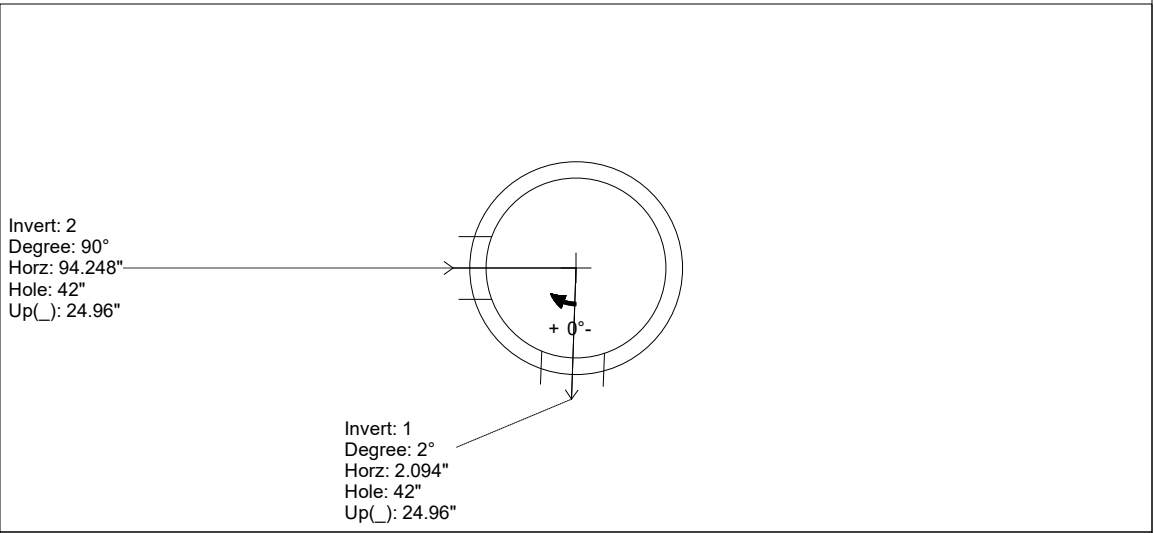
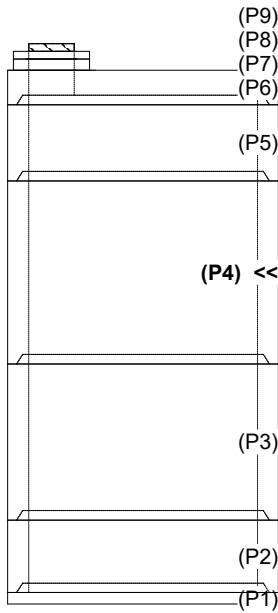
Structure Notes:

1. PER ASTM C-478 SPECS
2. CONCRETE: 7,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615 (GRADE 60)
4. 2 EA. CASTINGS PROVIDED BY OTHERS
5. LIFTING HOOKS TO BE INSTALLED ON THE INSIDE OF THE STRUCTURE
6. CONTECH'S LOGO AS WELL AS INLET AND OUTLET MUST BE STENCILED ONTO STRUCTURE
7. BASE SLAB, BASE SECTION, AND CONTROL SECTION  
 HAVE ALREADY BEEN PRODUCED.
8. INTERNALS TO BE INSTALLED BY OTHERS

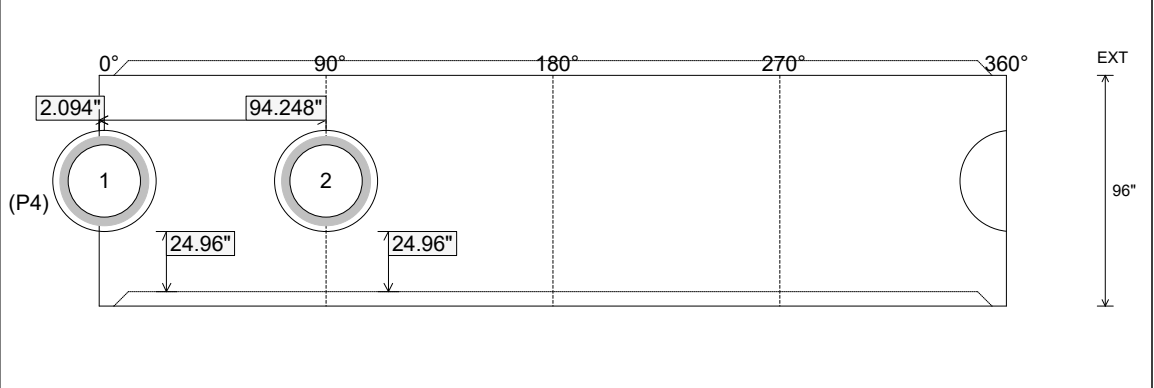
Rim: 502.71' Rim to Invert: 10.95' Slack: 0.36" Sump: 156.96" Step Position:

Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up ( )	Offset
Invert 1	491.76'	2°	2.478"	30" RCP B WALL	37"	Hole 42	42"	42.909"	24.96"	0"
Invert 2	491.76'	90°	111.527"	30" RCP B WALL	37"	Hole 42	42"	42.909"	24.96"	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: Tongue Seam Dn: Groove	Wall Thickness: 11" Floor Height: 0"	Height (Int): 96" Height (Ext): 96"	Weight (Net): 33863 lb Volume (Net): 8.65cu.yd
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# 25-4593 RISER REINFORCEMENT

## 030-CDS5678-10-C

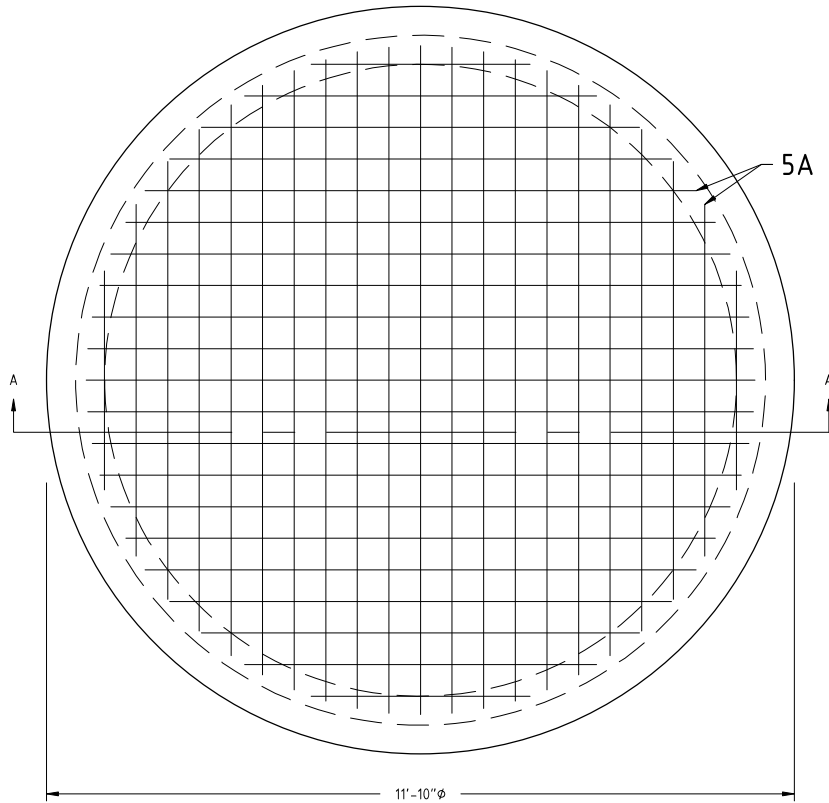
**DESIGN NOTE:**

HS20 DIRECT TRAFFIC (HEAVY DUTY) LOADING  
 WATER TABLE AT FINISHED GRADE  
 DESIGN CONFORMS TO AASHTO LRFD  
 CONCRETE 28 DAY COMPRESSIVE STRENGTH - 5000 PSI  
 REINFORCEMENT STEEL - 60,000 PSI  
 REBAR MIN SPLICE LENGTHS: #3-17" #4-22" #5-28" #6-33"  
 REBAR MIN BEND DIAMETERS: #3-2.25" #4-3" #5-3.75" #6-4.5"  
 PLACE 4-#4 BAR DIAGONAL AROUND OPENING(S)

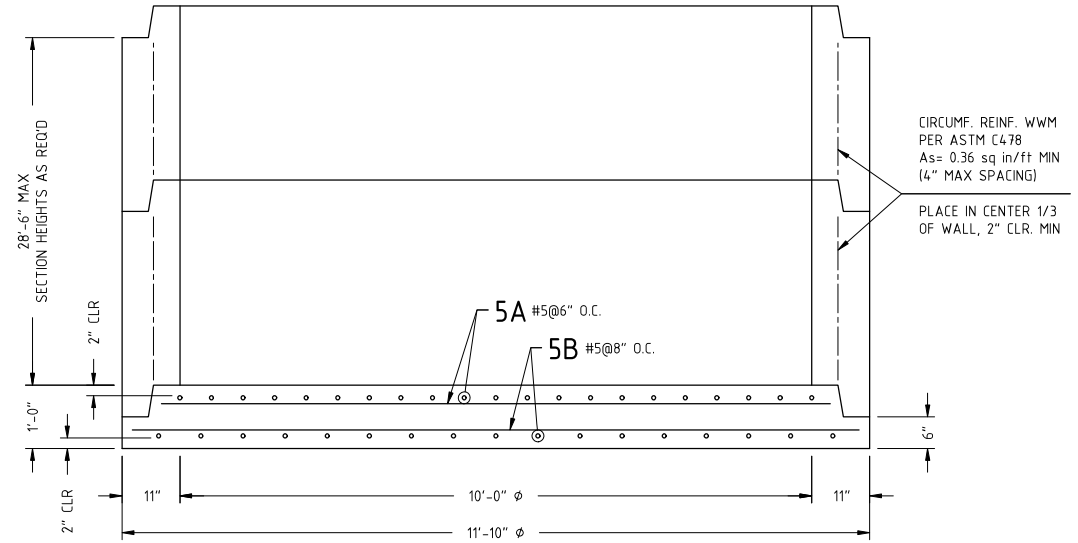
823277-30

### REINFORCING STEEL SCHEDULE

MARK	NO.	LENGTH	TYPE	BENDING DIAGRAM O.D.
5A	42	10'-7" MAX	STR.	
5B	34	11'-6" MAX	STR.	



**PLAN VIEW**  
(TOP MAT SHOWN)



**SECTION A-A**



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REVISIONS	
B	
C	
D	
E	

DRAWN BY: T.J.G  
 DESIGN BY: A.JEFFREY  
 PLANT:  
 SCALE: 1/2" = 1'

CONTECH - CDS - BASESLAB  
 10'-0"φ  
 REINFORCEMENT

DATE: 10/29/25 11"x17" PAGE 1 OF 1