

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

Plant: Beaver Dam, KY
 12/4/2025 1:55:40 PM

Tech: J. Coppage
 PC: T. Sekula



Structure ID: 030-CDS5678-10-C

P3 MH120RSVF

MH RISER Custom Ht

- 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****

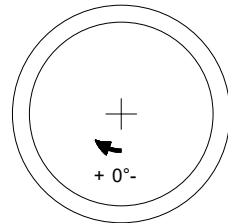
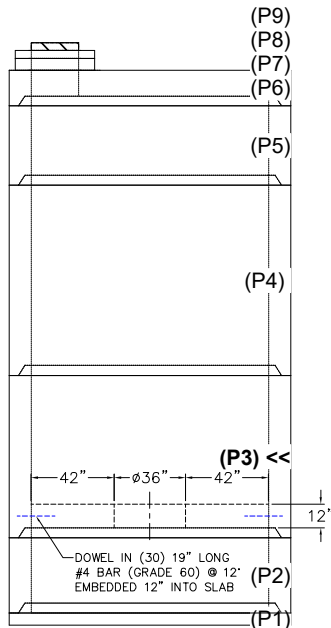
- Structure Notes:
1. PER ASTM C-478 SPECS
 2. CONCRETE: 7,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615 (GRADE 60)
 4. 2 EA. CASTINGS PROVIDED BY OTHERS
 5. LIFTING HOOKS TO BE INSTALLED ON THE INSIDE OF THE STRUCTURE
 6. CONTECH'S LOGO AS WELL AS INLET AND OUTLET MUST BE STENCILED ONTO STRUCTURE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

Structure Total: 136664 lb

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 (L)	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

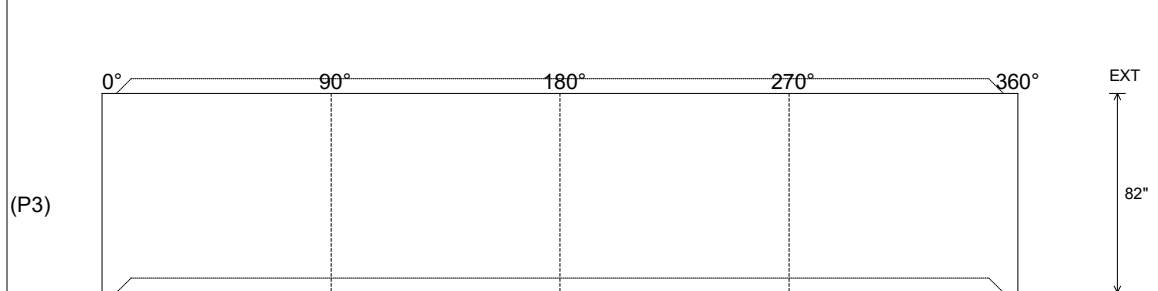
RIGHT-SIDE UP VIEW (int. dimensions)



FIRST POUR DRAWING
 WEIGHTS
 FIRST POUR - RISER WALLS - 31,150 LBS.
 SECOND POUR - SEP. SLAB - 10,363 LBS.
 TOTAL - RISER W/ SEP. SLAB - 41,513 LBS.

**DO NOT PRODUCE
 ALREADY PRODUCED
 IN JOB 25-3388**

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: Groove

Wall Thickness: 11"
 Floor Height: 0"

Height (Int): 82"
 Height (Ext): 82"

Weight (Net): 31150 lb
 Volume (Net): 7.96cu.yd

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

Plant: Beaver Dam, KY
 12/4/2025 1:55:40 PM

Tech: J. Coppage
 PC: T. Sekula



Structure ID: 030-CDS5678-10-C

P3 MH120RSVF

MH RISER Custom Ht

- 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****

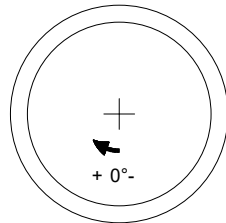
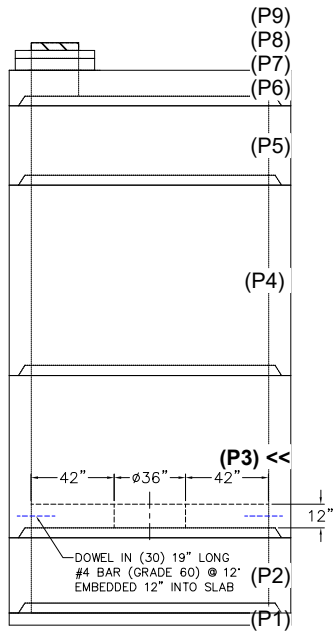
- Structure Notes:**
1. PER ASTM C-478 SPECS
 2. CONCRETE: 7,000 PSI AT 28 DAYS
 3. REINFORCEMENT: PER ASTM A615 (GRADE 60)
 4. 2 EA. CASTINGS PROVIDED BY OTHERS
 5. LIFTING HOOKS TO BE INSTALLED ON THE INSIDE OF THE STRUCTURE
 6. CONTECH'S LOGO AS WELL AS INLET AND OUTLET MUST BE STENCILED ONTO STRUCTURE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

Structure Total: 136664 lb

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 (L)	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

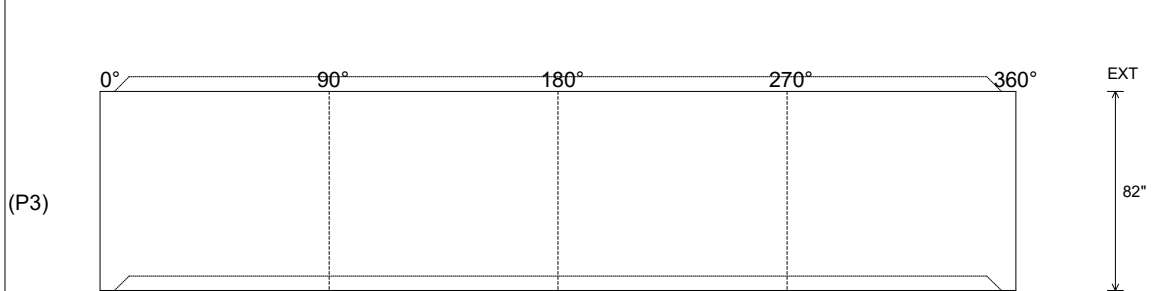
RIGHT-SIDE UP VIEW (int. dimensions)



SECOND POUR DRAWING
 WEIGHTS
 FIRST POUR - RISER WALLS - 31,150 LBS.
 SECOND POUR - SEP. SLAB - 10,363 LBS.
 TOTAL - RISER W/ SEP. SLAB - 41,513 LBS.

**DO NOT PRODUCE
 ALREADY PRODUCED
 IN JOB 25-3388**

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: Groove

Wall Thickness: 11"
 Floor Height: 0"

Height (Int): 82"
 Height (Ext): 82"

Weight (Net): 31150 lb
 Volume (Net): 7.96cu.yd

25-4593 RISER REINFORCEMENT 030-CDS5678-10-C

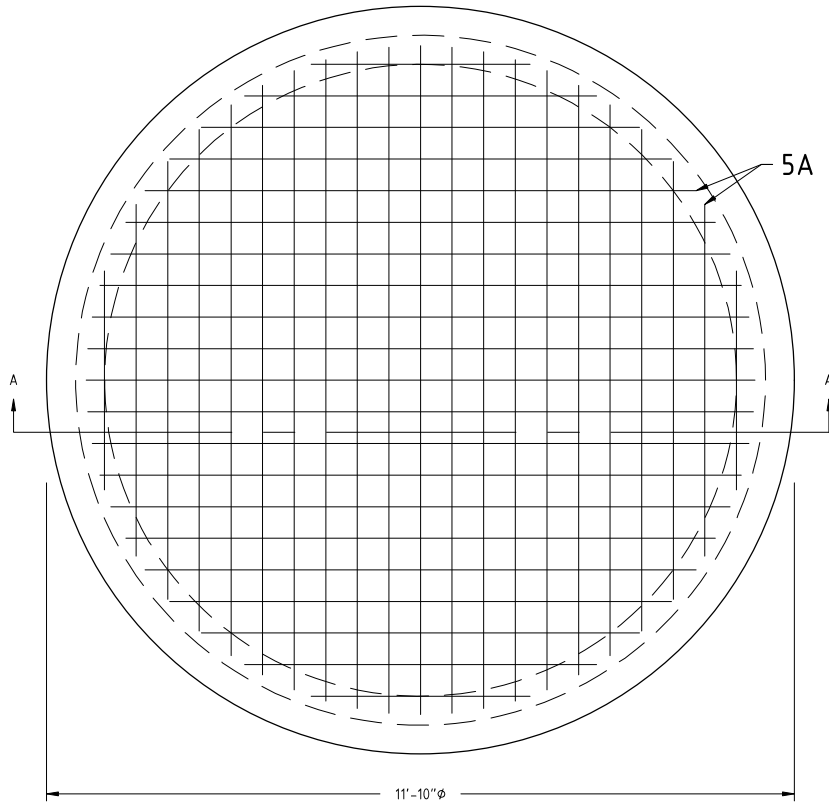
DESIGN NOTE:

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)

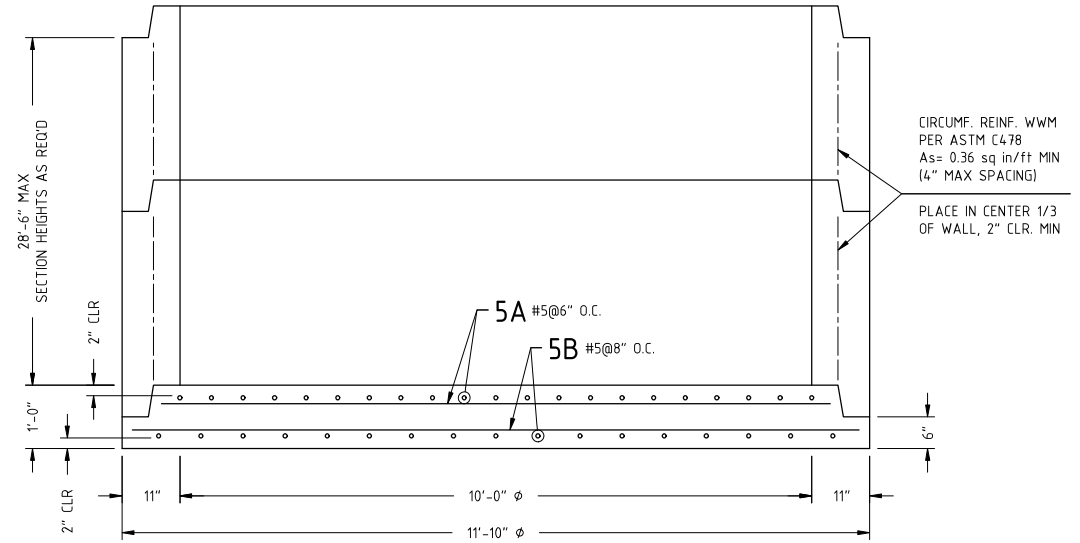
823277-30

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



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

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

25-4593 SEPARATION SLAB 030-CDS5678-10-C

DESIGN NOTE:

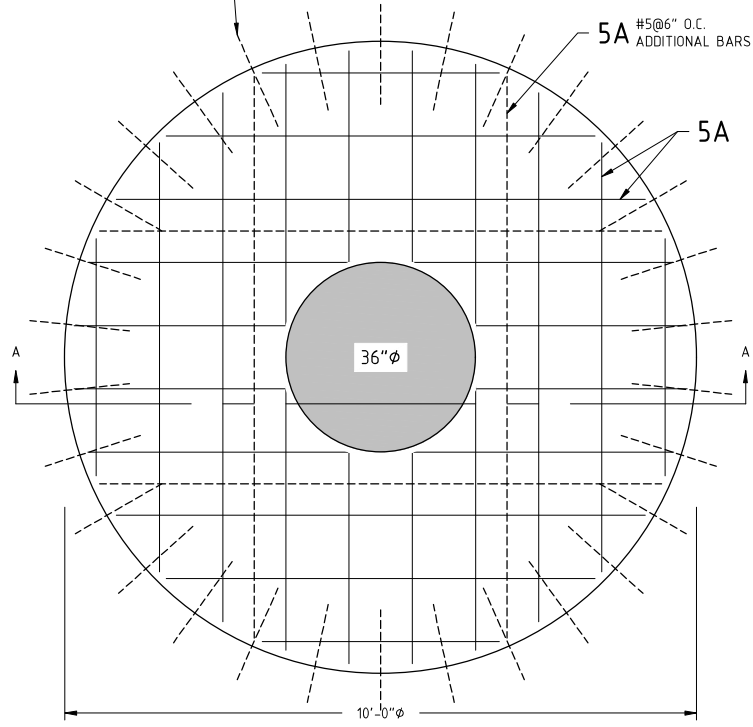
INTERNAL COMPONENT LOADING
 DESIGN CONFORMS TO AASHTO LRFD
 CONCRETE 28 DAY COMPRESSIVE STRENGTH - 5000 PSI
 REINFORCEMENT STEEL - 60,000 PSI
 REBAR MIN SPLICE LENGTHS: #3-17" #4-22" #5-28" #6-33"
 REBAR MIN BEND DIAMETERS: #3-2.25" #4-3" #5-3.75" #6-4.5"
 PLACE 4-#4 BAR DIAGONAL AROUND OPENING(S)

823277-30

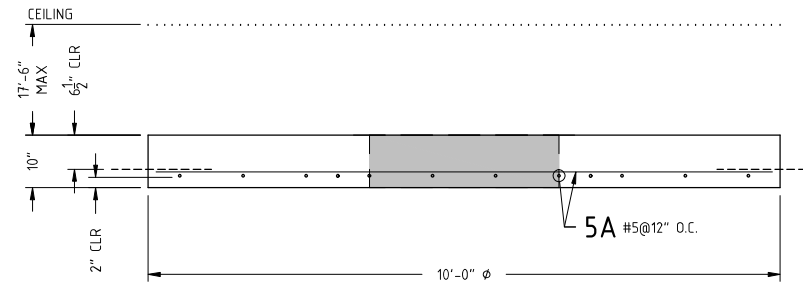
REINFORCING STEEL SCHEDULE

MARK	NO.	LENGTH	TYPE	BENDING DIAGRAM O.D.
5A	24	9'-9" MAX	STR.	

SEPARATION SLAB TO BE PRODUCED WITH SECONDARY POUR & DOWELED INTO RISER SECTION WALLS USING (30) #4x19" REBAR AT 12" EMBEDDED 12" INTO SLAB



PLAN VIEW



SECTION A-A



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

REVISIONS	
B	
C	
D	
E	

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

CONTECH - CDS SEPARATION SLAB
 10'-0"Ø
 REINFORCEMENT

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