

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

Plant: Beaver Dam, KY
 12/4/2025 1:55:35 PM

Tech: J. Coppage
 PC: T. Sekula



Structure ID: 010-CDS5653-10-C

P3 MH120RS72

MH RISER

- P6) 24" - CASTING HEIGHT - 0"
- P5) 120" - MH FLAT TOP SPEC. (2 - 24"Ø F&G) - 26"
- P4) 120" - MH RISER - 90"
- P3) 120" - MH RISER - 72"
- P2) 120" - MH RISER - 36"
- P1) 120" - MH BASE SLAB - 6"
- 1) CVSTENCILING
- 1) This Structure Includes a Cast-in Item - (2 Ea. Castings)
- 1) SECONDARY POUR - Separation Slab*
- 4) 120" - Conseal CS-102 1.00"
- 2) Hole - 42

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

Structure Total: 123980 lb

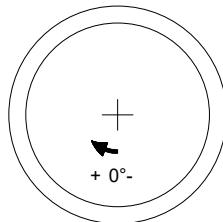
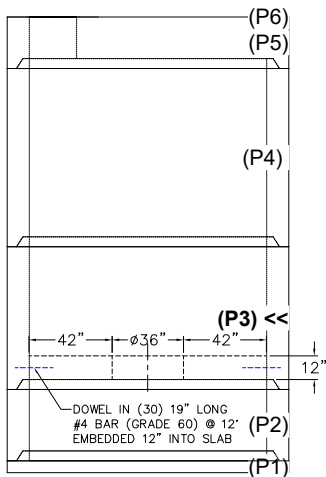
Structure Notes:

1. PER ASTM C-478 SPECS
2. CONCRETE: 7,000 PSI AT 28 DAYS
3. REINFORCEMENT: PER ASTM A615 (GRADE 60)
4. 2 EA. CAST-IN CASTINGS PROVIDED BY OTHERS
5. CASTINGS TO BE CAST INTO FLAT LID FLANGE SIDE UP
6. LIFTING HOOKS TO BE INSTALLED ON THE INSIDE OF THE STRUCTURE
7. CONTECH'S LOGO AS WELL AS INLET AND OUTLET MUST BE STENCILED ONTO STRUCTURE
8. INTERNALS TO BE INSTALLED BY OTHERS

Rim: 557.27' Rim to Invert: 8.35' Slack: 1.24" Sump: 125.04" 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)

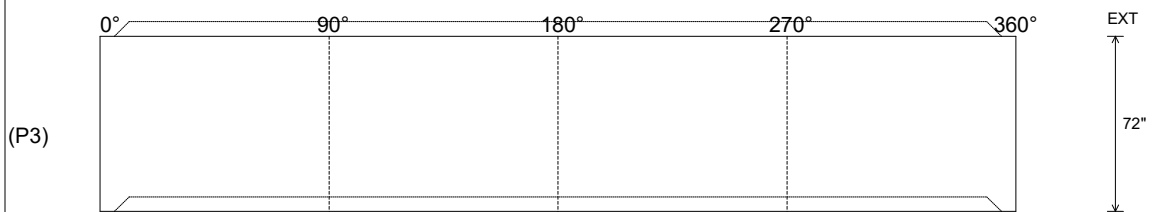


FIRST POUR DRAWING

WEIGHTS

- FIRST POUR - RISER WALLS - 27,351 LBS.
- SECOND POUR - SEP. SLAB - 10,363 LBS.
- TOTAL - RISER W/ SEP. SLAB - 37,714 LBS.

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: Groove

Wall Thickness: 11"
 Floor Height: 0"

Height (Int): 72"
 Height (Ext): 72"

Weight (Net): 27351 lb
 Volume (Net): 6.99cu.yd

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

Structure Total: 123980 lb

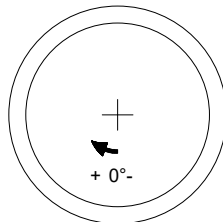
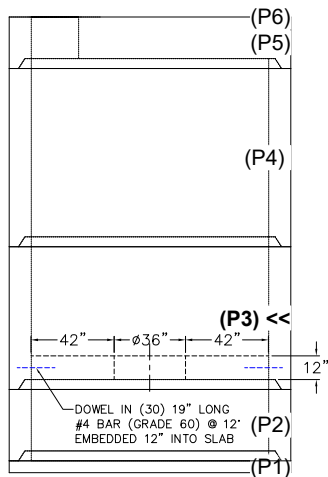
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Rim: 557.27' Rim to Invert: 8.35' Slack: 1.24" Sump: 125.04" Step Position:

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										

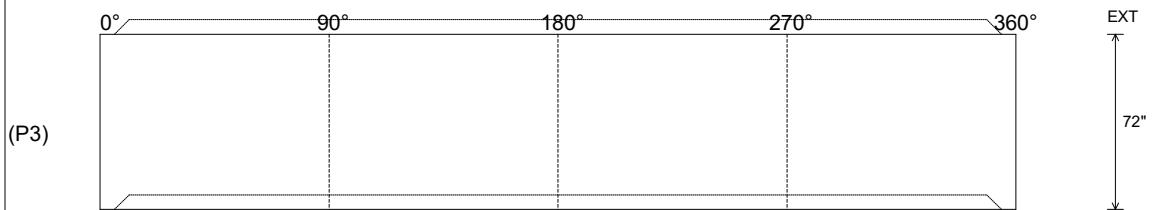
RIGHT-SIDE UP VIEW (int. dimensions)



SECOND POUR DRAWING

WEIGHTS
 FIRST POUR - RISER WALLS - 27,351 LBS.
 SECOND POUR - SEP. SLAB - 10,363 LBS.
 TOTAL - RISER W/ SEP. SLAB - 37,714 LBS.

INSIDE WALL DIMENSIONS



Coating (Int):
 Coating (Ext):

Seam Up: Tongue
 Seam Dn: Groove

Wall Thickness: 11"
 Floor Height: 0"

Height (Int): 72"
 Height (Ext): 72"

Weight (Net): 27351 lb
 Volume (Net): 6.99cu.yd

25-4593 RISER REINFORCEMENT 010-CDS5653-10-C

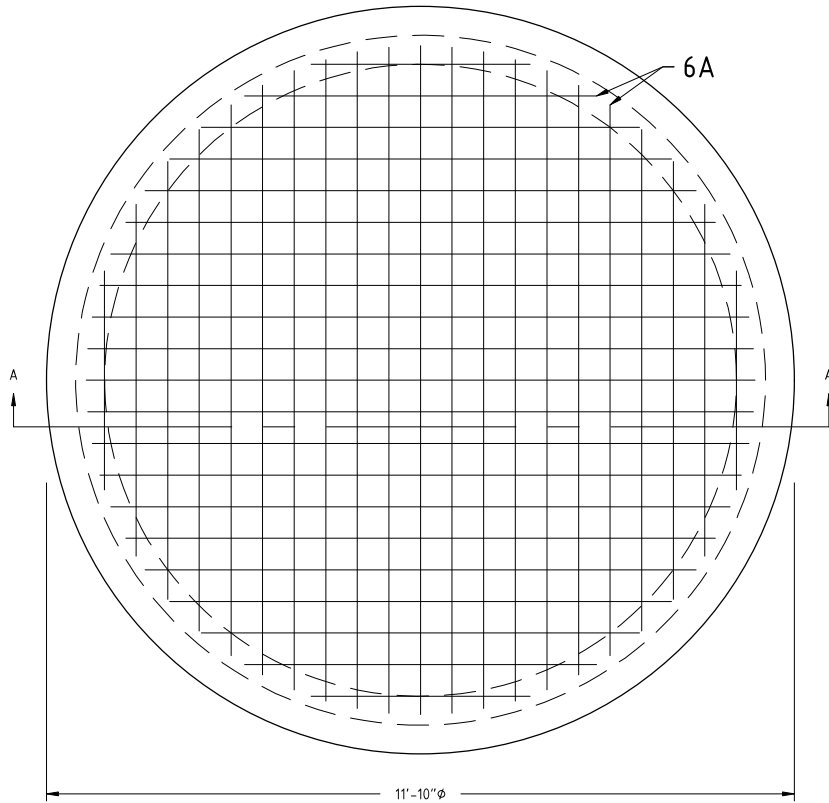
DESIGN NOTE:

AIRCRAFT LOADING - 80 KIP WHEEL LOAD - 17.19"x12.68" TIRE FOOTPRINT
 WATER TABLE AT FINISHED GRADE
 DESIGN CONFORMS TO AASHTO LRFD
 CONCRETE 28 DAY COMPRESSIVE STRENGTH - 7000 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)

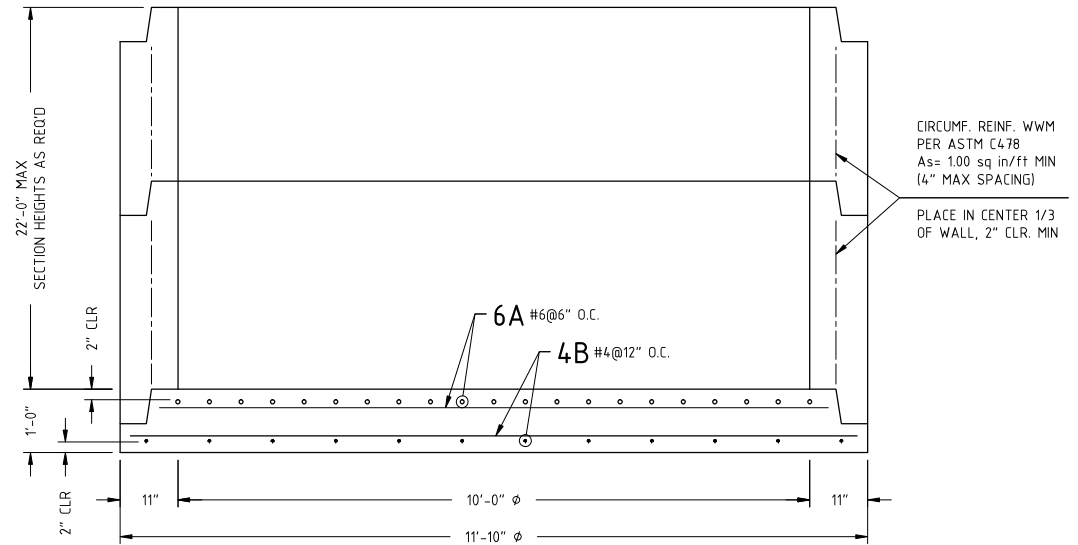
823277-10

REINFORCING STEEL SCHEDULE

MARK	NO.	LENGTH	TYPE	BENDING DIAGRAM O.D.
6A	42	10'-7" MAX	STR.	
4B	24	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" Ø
 REINFORCEMENT

DATE: 10/14/25 11"x17" PAGE 1 OF 1

25-4593 SEPARATION SLAB 010-CDS5653-10-C

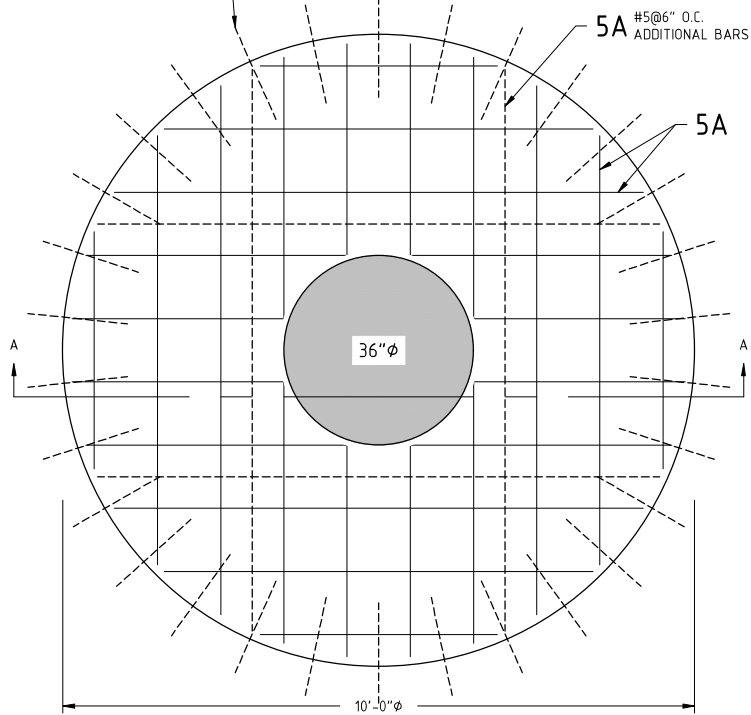
DESIGN NOTE:

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)

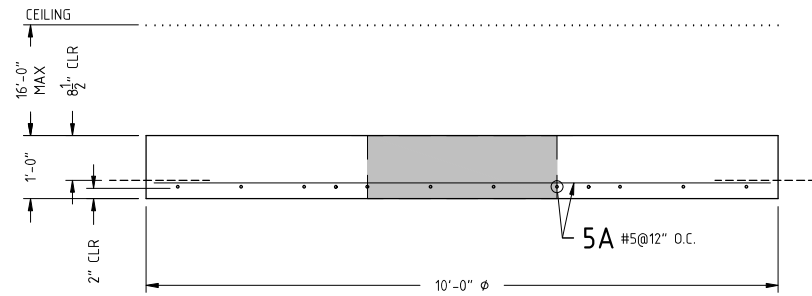
823277-10

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



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

CONTECH - CDS SEPARATION SLAB 10'-0" Ø REINFORCEMENT
DATE: 10/14/25 11"x17" PAGE 1 OF 1