

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

Plant: Beaver Dam, KY
 12/4/2025 1:55:37 PM

Tech: J. Copping
 PC: T. Sekula



Structure ID: 015-CDS5668-10-C

P3 MH120RS84

MH RISER

- P7) 24" - CASTING HEIGHT - 0"
- P6) 120" - MH FLAT TOP SPEC. (2 - 24"Ø F&G) - 26"
- P5) 120" - MH RISER Custom Ht - 50"
- P4) 120" - MH RISER - 72"
- P3) 120" - MH RISER - 84"
- 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*
- 5) 120" - Conseal CS-102 1.00"
- 2) Hole - 48

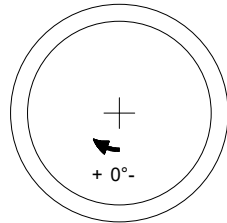
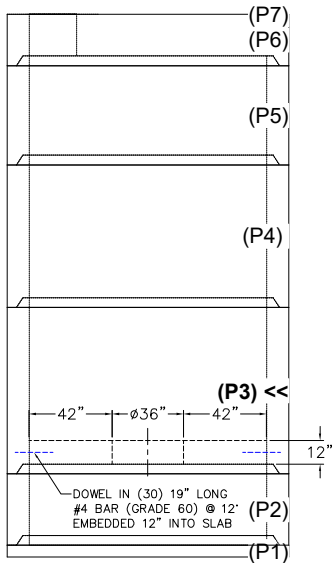
****USE REINFORCEMENT
 INFORMATION PROVIDED
 BY CONTECH****

0 lb 26247 lb 18994 lb 23929 lb 31909 lb 13675 lb 14760 lb 0 lb 0 lb 10363 lb 0 lb 0 lb ----- Structure Total: 139877 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
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Rim: 553.59' Rim to Invert: 10.3' Slack: 0.56" Sump: 144.96" Step Position:

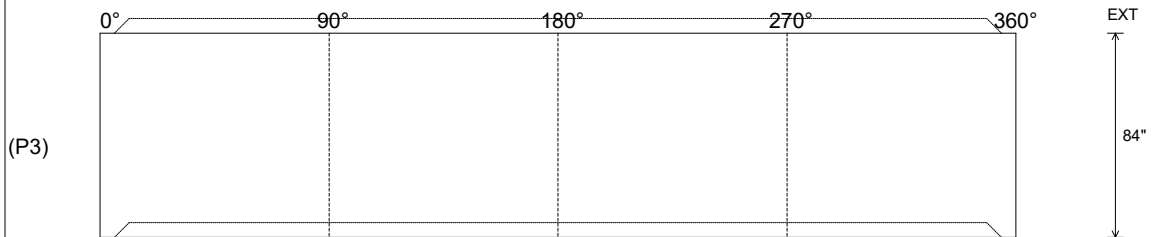
Position	Elev	Angle	Ext. (cw)	Pipe	Pipe OD	Connector	Hole	Horz Size	Up (L)	Offset
Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



FIRST POUR DRAWING WEIGHTS
FIRST POUR - RISER WALLS - 31,909 LBS.
SECOND POUR - SEP. SLAB - 10,363 LBS.
TOTAL - RISER W/ SEP. SLAB - 42,272 LBS.

INSIDE WALL DIMENSIONS



Coating (Int): Coating (Ext):	Seam Up: Tongue Seam Dn: Groove	Wall Thickness: 11" Floor Height: 0"	Height (Int): 84" Height (Ext): 84"	Weight (Net): 31909 lb Volume (Net): 8.15cu.yd
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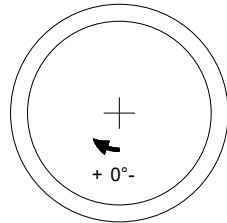
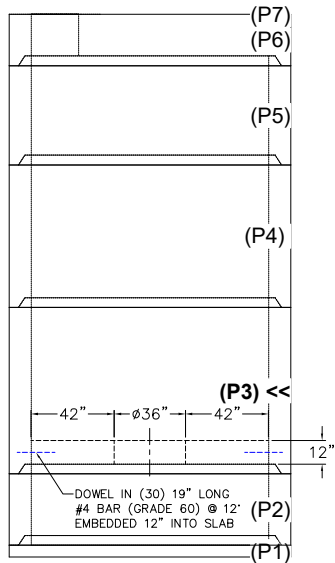
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| <ul style="list-style-type: none"> 0 lb 26247 lb 18994 lb 23929 lb 31909 lb 13675 lb 14760 lb 0 lb 0 lb 10363 lb 0 lb 0 lb | <p>Structure Notes:</p> <ol style="list-style-type: none"> 1. PER ASTM C-478 SPECS 2. CONCRETE: 7,000 PSI AT 28 DAYS 3. REINFORCEMENT: 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 |
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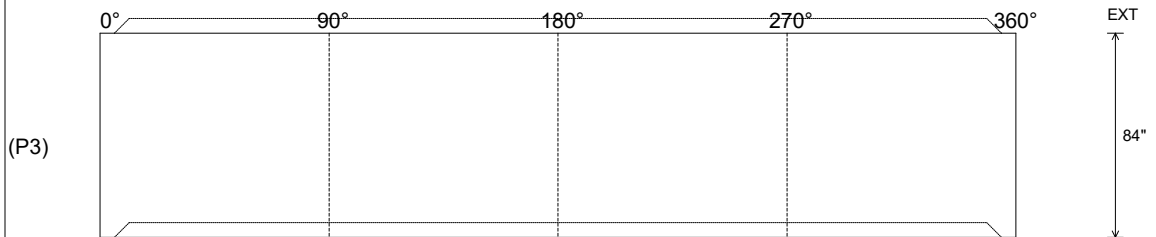
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Invert 1										
Invert 2										
Invert 3										
Invert 4										
Invert 5										
Invert 6										
Invert 7										
Invert 8										

RIGHT-SIDE UP VIEW (int. dimensions)



SECOND POUR DRAWING
 WEIGHTS
 FIRST POUR - RISER WALLS - 31,909 LBS.
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 TOTAL - RISER W/ SEP. SLAB - 42,272 LBS.

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25-4593 RISER REINFORCEMENT 015-CDS5668-10-C

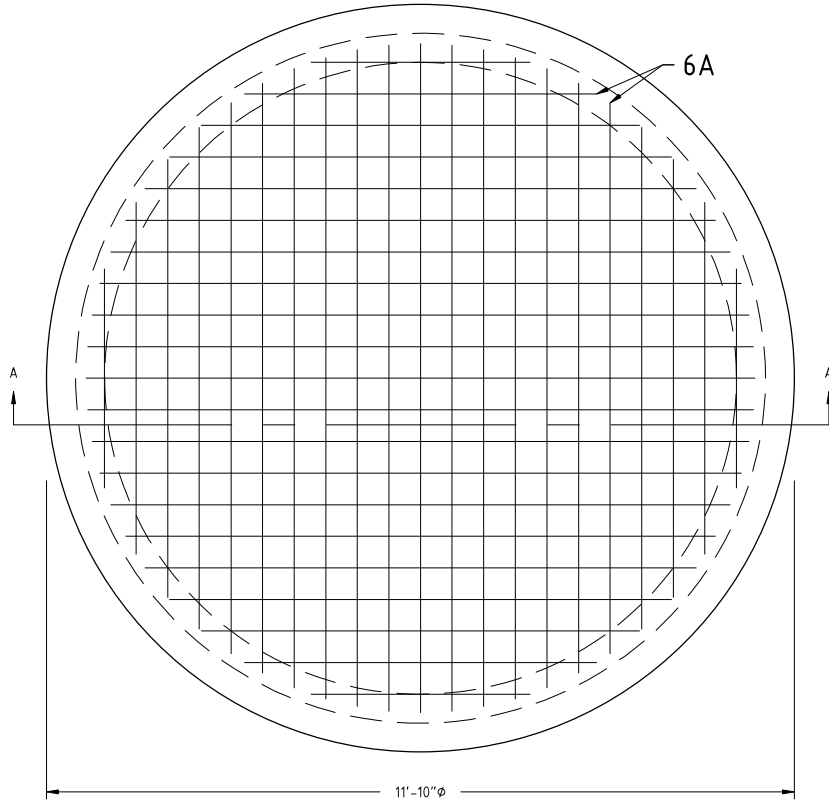
DESIGN NOTE:

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)

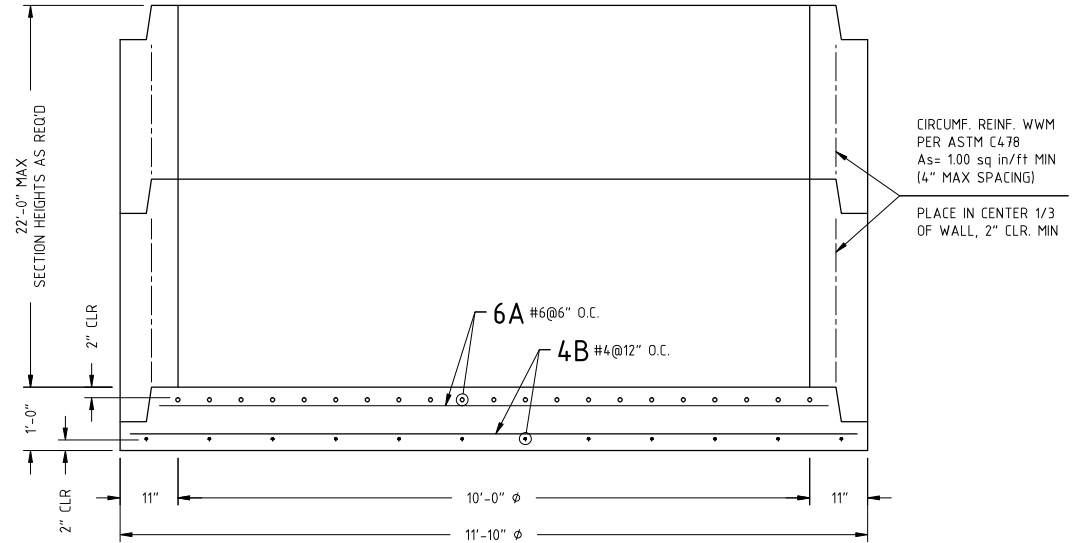
823277-15

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 015-CDS5668-10-C

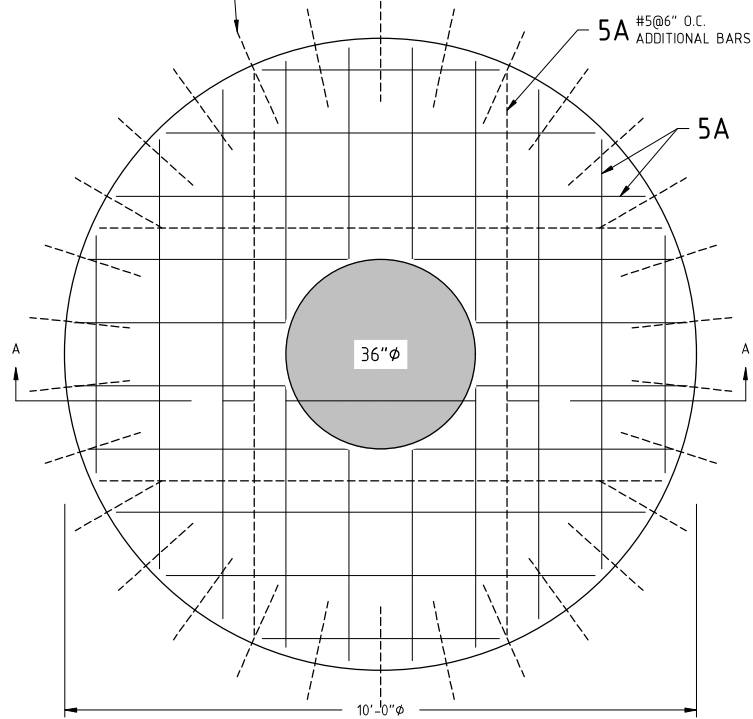
DESIGN NOTE:

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)

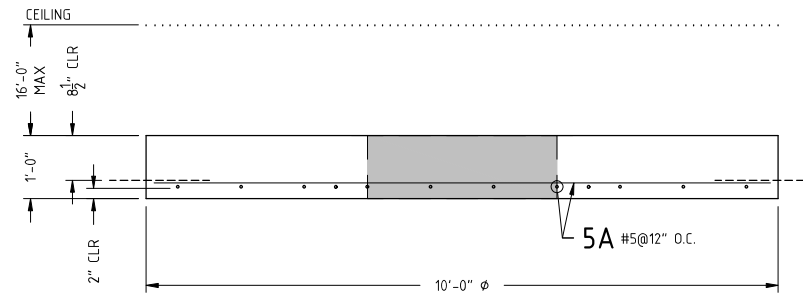
823277-15

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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REVISIONS	
B	
C	
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E	

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

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