

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

PC: A. Chambers
TECH: J. Horsley
Plant: 100



Structure ID: **MH 1**

Spec: Storm
Type: BX 8inW, 8inF
Size: 84" x 84"

Rim: 394.26'
Invert: 382.98'
Rim to Invert: 11.28'

Sump: 4"
Floor (Top): 382.647'
Floor Height: 0"

Floor (Bot): 382.647'
Overall Height: 11.583'
Slack: 0.36"

Structure Notes:

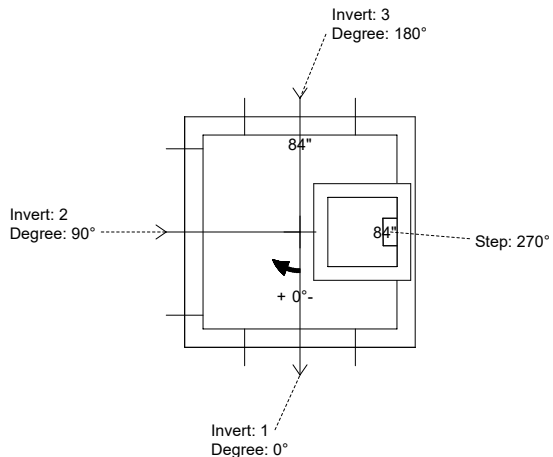
1. PER ASTM C-913 SPECIFICATIONS
2. CONCRETE: 4,500 PSI AT 28 DAYS
3. REINFORCEMENT:
 - FLAT LID: #5 BAR @ 6" C.C. E.W. (GRADE 60)
 - RISERS: #5 BAR @ 8" C.C. E.W. (GRADE 60)
4. STEPS AT 270 DEGREES
5. HOE 468 FRAME & GRATE SUPPLIED BY ICAST

STRUCTURE SUMMARY:

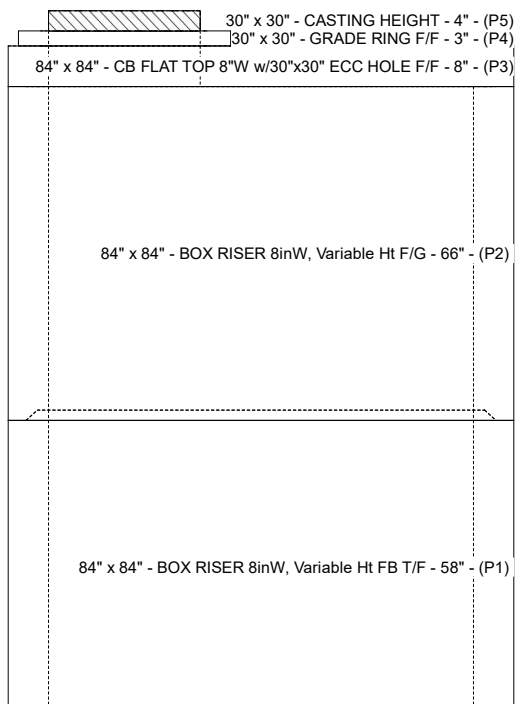
- P5) 30" x 30" - CASTING HEIGHT - 4"
P4) 30" x 30" - GRADE RING F/F - 3"
P3) 84" x 84" - CB FLAT TOP 8"W w/30"x30" ECC HOLE F/F - 8"
P2) 84" x 84" - BOX RISER 8inW, Variable Ht F/G - 66"
P1) 84" x 84" - BOX RISER 8inW, Variable Ht FB T/F - 58"
1) CASTING - HOE 468 F/G
2) 84" x 84" - Conseal CS-102 1.00"
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
0 lb

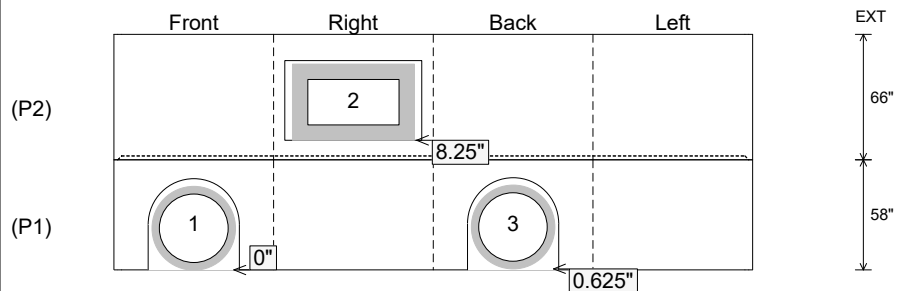
Structure Total: 32637 lb



Position	Elev	Angle	Pipe	Pipe OD	Hole	Connector	Up ()	Ref
Rim	394.26'							
Reducer								
Invert 1	382.98'	0°	36" RCP B WALL	44"	48" x 48"	DOGHOUSE 48"x48"	0"	P1
Invert 2	389'	90°	48" x 24" BOX CULV. (8W8F8T)	64" x 40"	72" x 42"	SQ. Hole 72"x42"	8.25"	P2
Invert 3	383.03'	180°	36" RCP B WALL	44"	48" x 48"	DOGHOUSE 48"x48"	0.625"	P1
Invert 4								
Invert 5								
Invert 6								
Invert 7								
Invert 8								



Cast (Int. Dim.) - Interior Dimensions



Submittal Drawing
6/16/2026 2:11:27 PM

SUBMITTAL
APPROVED BY: