

**Contractor: The Allen Company, Inc.**

Plant: Beaver Dam



Type: SAN.MH w/Ext. Drop/ConBlock-CDA Red  
Size: 48"

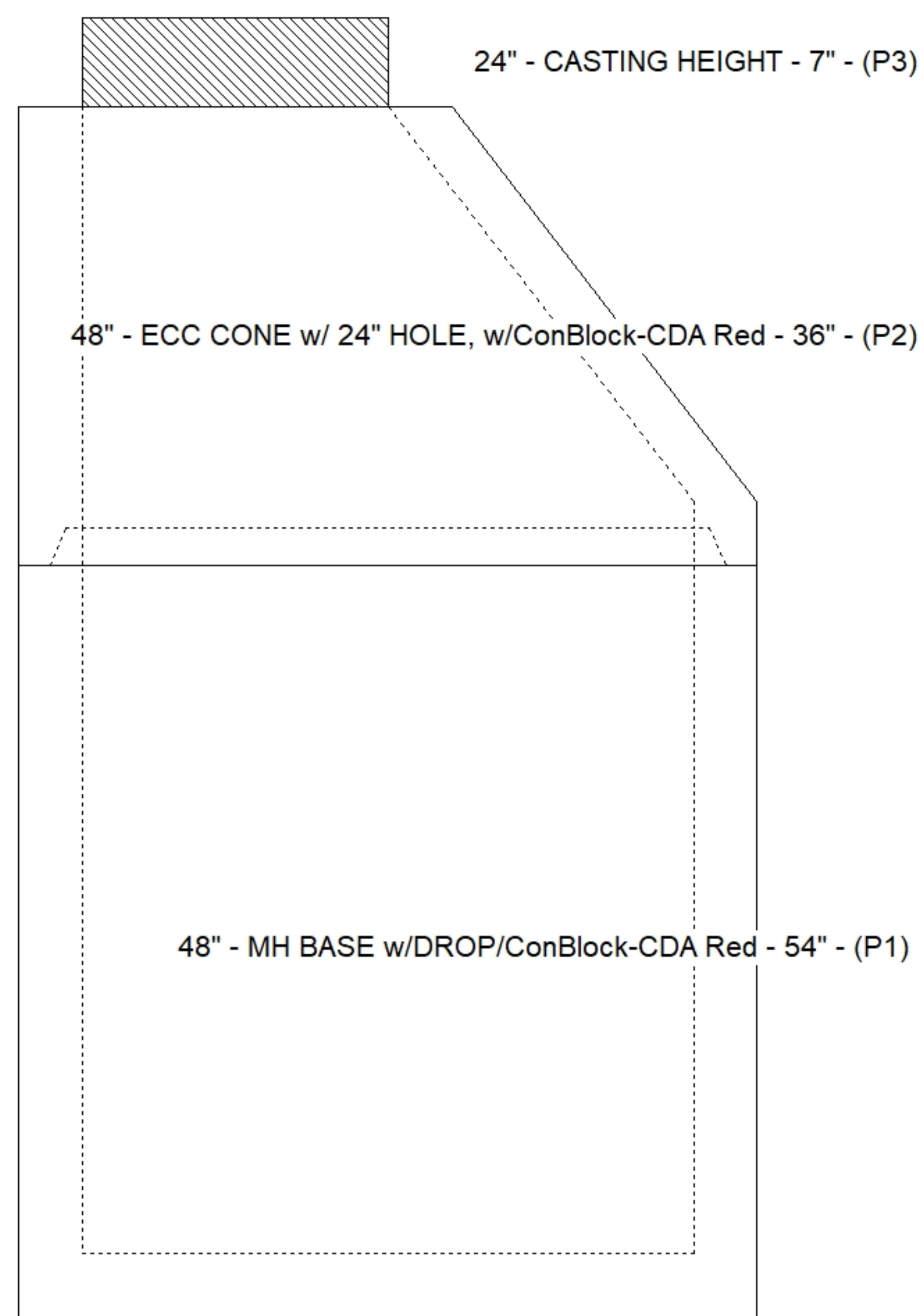
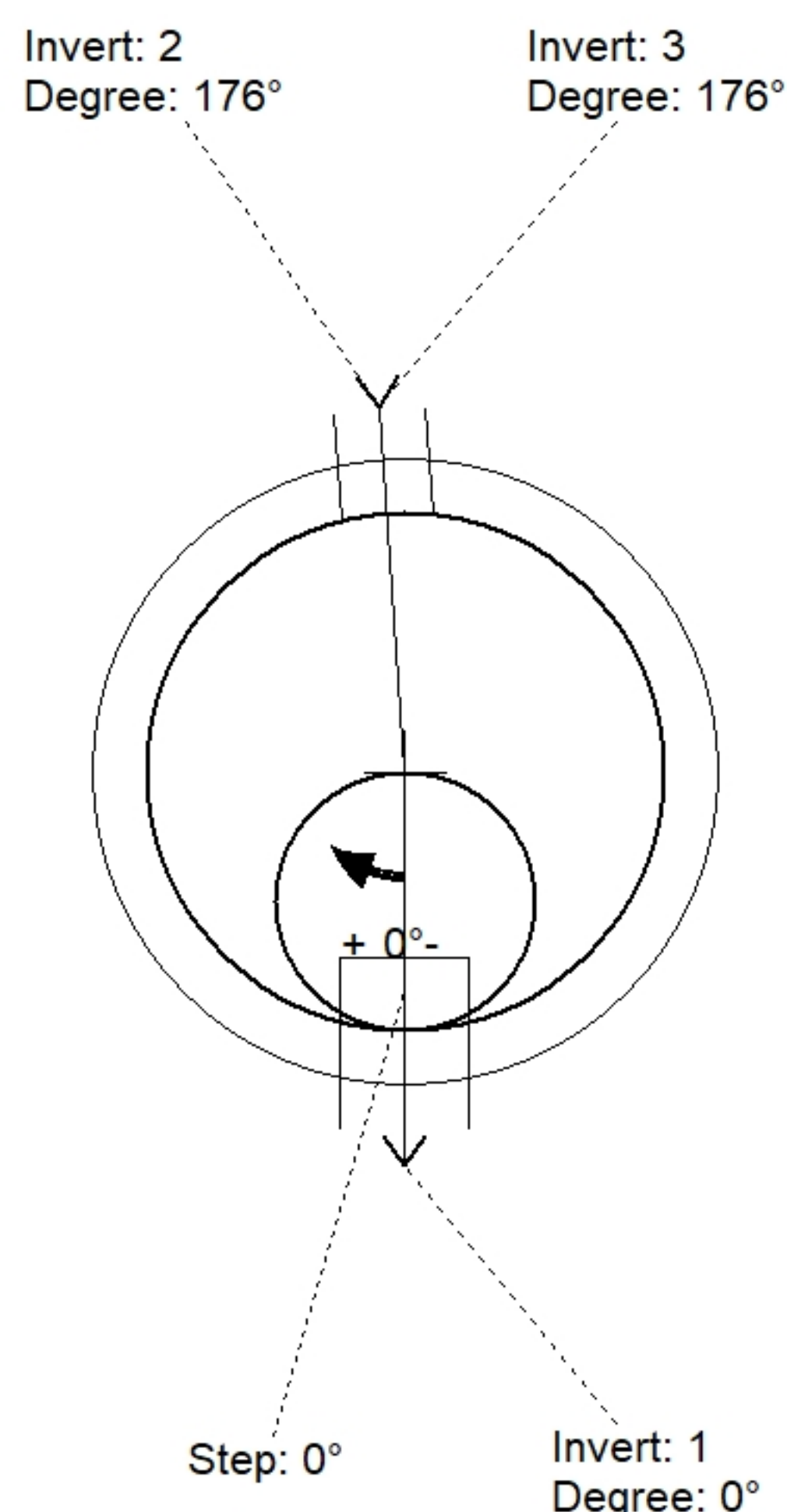
Rim: 963.85'  
Invert: 955.8'  
Rim to Invert: 8.05'

Sump: 2"  
Floor (Top): 955.633'  
Floor Height: 6"

Floor (Bot): 955.133'  
Overall Height: 8.583'  
Slack: 1.6"

1. PER ASTM C478 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. REINFORCING PER ASTM A615 (GRADE 60).
  - CONE (As .12)
  - RISER/WALLS (As .12)
  - FLOOR (As .31) #5 BARS AT 12" C.C.E.W.
4. CASTING BY OTHERS
5. ADMIXTURE = CONBLOCK-CDA RED

|                                                             |         |
|-------------------------------------------------------------|---------|
| P3) 24" - CASTING HEIGHT - 7"                               | 0 lb    |
| P2) 48" - ECC CONE w/ 24" HOLE, w/ConBlock-CDA Red - 36"    | 2251 lb |
| P1) 48" - MH BASE w/DROP/ConBlock-CDA Red - 54"             | 5007 lb |
| 1) 48" - MH INVERT CHANNEL w/ConBlock-CDA Red - FULL HEIGHT | 1440 lb |
| 1) JOINT WRAP - 0.065"x6"x50' CONSEAL CS212                 | 0 lb    |
| 1) JOINT WRAP PRIMER - CONSEAL CS-75 (1 gal.)               | 0 lb    |
| 1) CASTING - HOE MC-315 F/C Sanitary                        | 258 lb  |
| 1) 48" - Conseal CS-102 1.00" (Double)                      | 0 lb    |
| 1) 24" - Conseal CS-102 1.00" (Double)                      | 0 lb    |
| 1) PSX - 12-08 NYLO                                         | 8 lb    |
| 1) Drop Tee - 8" PVC                                        | 0 lb    |
| 1) Drop Elbow - 8" PVC                                      | 0 lb    |
| 7) MH Step ML-10-TDS-NCR - 10"                              | 0 lb    |
|                                                             | -----   |
| Structure Total:                                            | 8964 lb |



| Position | Elev    | Angle | Pipe         | Pipe OD | Hole | Connector         | Up (') | Rel |
|----------|---------|-------|--------------|---------|------|-------------------|--------|-----|
| Rim      | 963.85' |       |              |         |      |                   |        |     |
| Reducer  |         |       |              |         |      |                   |        |     |
| Invert 1 | 955.8'  | 0°    | 8" PVC SDR35 | 8.5"    | 12"  | PSX 12-08 NYLO    | 0"     | P1  |
| Invert 2 | 958.85' | 176°  | 8" PVC SDR35 | 8.5"    | 8.5" | Drop Tee 8" PVC   | 38.35" | P1  |
| Invert 3 | 955.9'  | 176°  | 8" PVC SDR35 | 8.5"    | 8.5" | Drop Elbow 8" PVC | 2.95"  | P1  |
| Invert 4 |         |       |              |         |      |                   |        |     |
| Invert 5 |         |       |              |         |      |                   |        |     |
| Invert 6 |         |       |              |         |      |                   |        |     |
| Invert 7 |         |       |              |         |      |                   |        |     |
| Invert 8 |         |       |              |         |      |                   |        |     |

Figure 1 is a schematic diagram of the test setup. It shows a rectangular plate with a height of 54 inches and a width of 6 inches. The plate is divided into four quadrants by dashed lines at 90°, 180°, and 270°. Three points are marked: Point 1 (bottom-left corner, 0°), Point 2 (top-center, 180°), and Point 3 (bottom-center, 180°). Dimensions are given: 54 inches for the height and 6 inches for the width. A label (P1) is on the left. A semi-circle is on the right edge.

Submittal Drawing  
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SUBMITTAL  
APPROVED BY: