

**Job Name: 25-1401 Irwin Landing Ph. 1**  
**Job Location: Murfreesboro, TN**  
**Contractor: Bear Construction LLC**

PC: Erica Bradley  
TECH: S. Felletter  
Plant: Beaver Dam



Structure ID: R20

Spec: Storm

Type: BX 6inW, 6inF

Size: 28" x 28"

Rim: 590.65'

Invert: 586.16'

Rim to Invert: 4.49'

Sump: 2.5"

Floor (Top): 585.952'

Floor Height: 6"

Floor (Bot): 585.452'

Overall Height: 5.167'

Slack: 0.38"

**Structure Notes:**

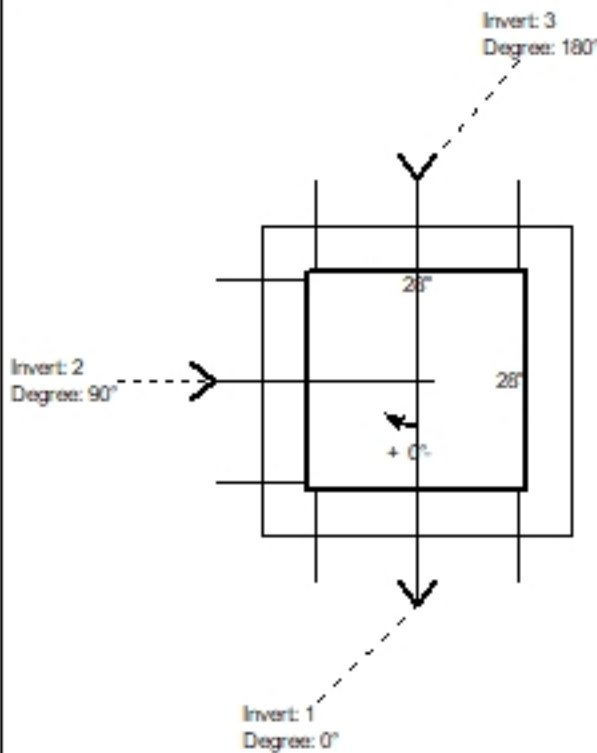
1. PER ASTM C913 SPECIFICATIONS.
2. CONCRETE = 4,000 PSI AT 28 DAYS.
3. CASTING BY ICAST (JBS-3104 SINGLE SET).

REINFORCING PER ASTM A615 (GRADE 60).

- WALLS (As .31) #5 BARS AT 12" C.C.E.W.
- FLOOR (As .31) #5 BARS AT 12" C.C.E.W.

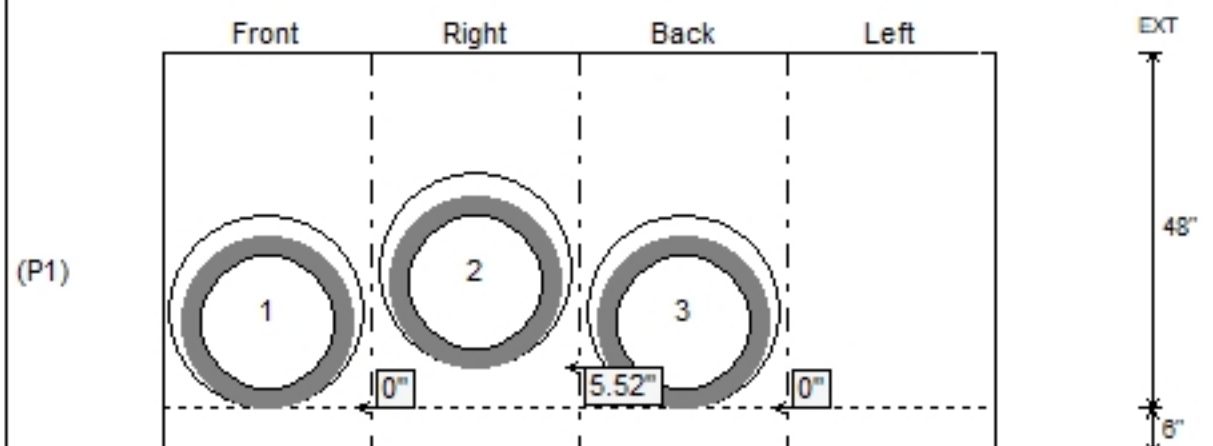
**STRUCTURE SUMMARY:**

|                                                     |         |
|-----------------------------------------------------|---------|
| P3) 28" x 28" - CASTING HEIGHT - 5"                 | 0 lb    |
| P2) 28" x 28" - GRADE RING 6"W F/F - 3"             | 205 lb  |
| P1) 28" x 28" - BOX BASE 6inW, 6inF F/n - 48"       | 3290 lb |
| 1) 28" x 28" - STORM INVERT CHANNEL (FLAT) - 4" THK | 450 lb  |
| 1) CASTING - JBS 3104-V SINGLE SET                  | 250 lb  |
| 2) 28" x 28" - Conseal CS-102 1.00"                 | 0 lb    |
| 3) Hole - 28                                        | 0 lb    |
| Structure Total:                                    | 4196 lb |



| Position | Elev    | Angle | Pipe           | Pipe OD | Hole | Connector | Up ( ) | Ref |
|----------|---------|-------|----------------|---------|------|-----------|--------|-----|
| Rim      | 590.65' |       |                |         |      |           |        |     |
| Reducer  |         |       |                |         |      |           |        |     |
| Invert 1 | 586.16' | 0°    | 18" RCP B WALL | 23"     | 28"  | Hole 28   | 0"     | P1  |
| Invert 2 | 586.62' | 90°   | 18" RCP B WALL | 23"     | 28"  | Hole 28   | 5.52"  | P1  |
| Invert 3 | 586.16' | 180°  | 18" RCP B WALL | 23"     | 28"  | Hole 28   | 0"     | P1  |
| Invert 4 |         |       |                |         |      |           |        |     |
| Invert 5 |         |       |                |         |      |           |        |     |
| Invert 6 |         |       |                |         |      |           |        |     |
| Invert 7 |         |       |                |         |      |           |        |     |
| Invert 8 |         |       |                |         |      |           |        |     |

**Default - Interior Dimensions**



Submittal Drawing  
6/10/2026 3:15:30 PM

SUBMITTAL  
APPROVED BY: