

Job Name: 24-3511 Coles Ferry Section 18 & 19

Job Location: Lebanon, TN

Contractor: Covenant Constructors, LLC

Plant: Beaver Dam, KY

5/12/2026 2:49:25 PM

Tech: J. Horsley

PC: A. Chambers

INFRASTRUCTURE

ICAST

PRECAST

Structure ID: CB12 - add 48in HT Riser

P2MH060RS48MH RISER F/F

P4) 28" x 28" - CASTING HEIGHT - 6"

P3) 60" - MH FLAT TOP w/(2) 28"x28" Holes F/F - 8"

P2) 60" - MH RISER F/F - 48"

P1) 60" - MH BASE Custom Ht, No Tongue F/n - 69"

1) CASTING - JBS 3101 Double Set (F/G/H)

2) 60" - SGL 1"x14.5' Butyl (2x)

2) Hole - 40

1) Hole - 22

9) MH Step ML-10-TDS-NCR - 10"

0 lb

1680 lb

4992 lb

8396 lb

1238 lb

0 lb

0 lb

0 lb

0 lb

Structure Total: 16306 lb

Structure Notes:

1. PER ASTM C913 SPECIFICATIONS.

2. CONCRETE = 4,000 PSI AT 28 DAYS.

3. NO INVERT CHANNEL.

4. CASTING BY ICAST (2ea JBS-3101 F/G/H)

REINFORCING PER ASTM A615 (GRADE 60).

- TOP SLAB (As .62) #5 BARS AT 6" C.C.E.W.

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

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

Rim: 570.34' Rim to Invert: 10.7' Slack: 0.904" Sump: 3.504" Step Position: 110°

| Position | Elev    | Angle | Ext. (cw) | Pipe           | Pipe OD | Connector | Hole | Horz Size | Up ( )   | Offset |
|----------|---------|-------|-----------|----------------|---------|-----------|------|-----------|----------|--------|
| Invert 1 |         |       |           |                |         |           |      |           |          |        |
| Invert 2 | 563.73' | 185°  | 116.25"   | 15" RCP B WALL | 19.5"   | Hole 22   | 22"  | 22.525"   | -18.625" | 0"     |
| Invert 3 |         |       |           |                |         |           |      |           |          |        |
| Invert 4 |         |       |           |                |         |           |      |           |          |        |
| Invert 5 |         |       |           |                |         |           |      |           |          |        |
| Invert 6 |         |       |           |                |         |           |      |           |          |        |
| Invert 7 |         |       |           |                |         |           |      |           |          |        |
| Invert 8 |         |       |           |                |         |           |      |           |          |        |

RIGHT-SIDE UP VIEW (int. dimensions)

(P4)

(P3)

(P2) <<

(P1)

Step: 110°

Horz: 57.625"

Invert: 2

Degree: 185°

Horz: 96.875"

Hole: 22"

Up( ): -18.625"

+ 0°-

INSIDE WALL DIMENSIONS

0°90°180°270°360°

EXT

48"

96.875"

2

-18.625"

Coating (Int):

Coating (Ext):

Seam Up: Flat

Seam Dn: Flat

Wall Thickness: 6"

Floor Height: 0"

Height (Int): 48"

Height (Ext): 48"

Weight (Net): 4992 lb

Volume (Net): 1.27cu.yd