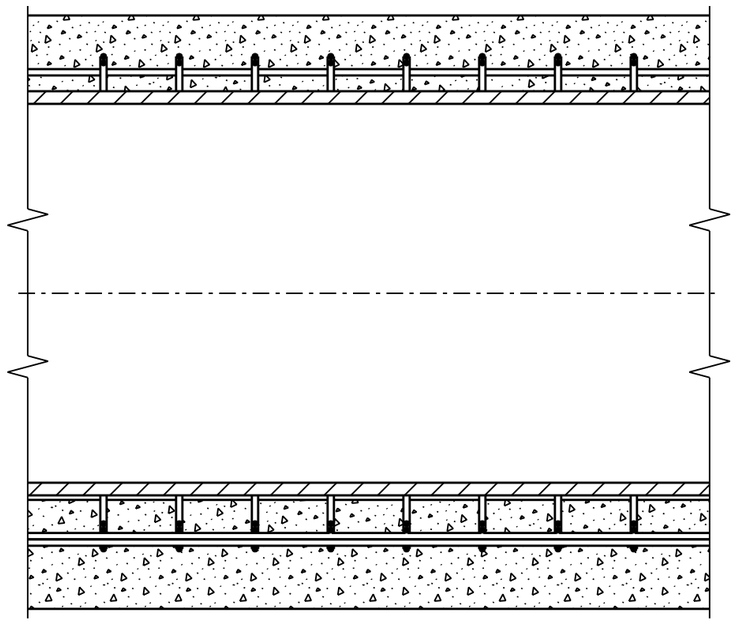
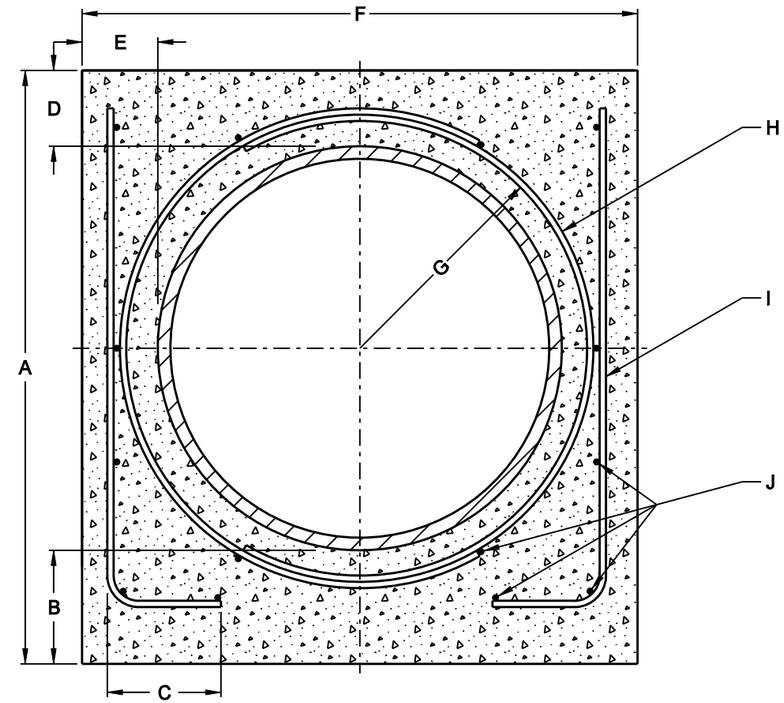


LONGITUDINAL SECTION




TRANSVERSE SECTION

| PIPE SIZE (IN.) | A (IN.) | B (IN.) | C (IN.) | D (IN.) | E (IN.) | F MIN. (IN.) | G (IN.) | H (BEND TO RADIUS G) | I | J MIN. | CU. YDS. CONC. PER FT. | LBS. STEEL PER FT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 35 | 9 | 9 | 6 | 6 | 32 | 11 | #4 BARS, 6" O.C., 48" LONG | #4 BAR, 6" O.C., 36" LONG | 14 - #4 BARS, 12" OVERLAP MIN. | .24 | 29 |
| 18 | 35 | 9 | 9 | 6 | 6 | 32 | 12 | 2 - #4 BARS, 6" O.C., 50" LONG | 2 - #4 BARS, 6" O.C., 38" LONG | 14 - #4 BARS, 12" OVERLAP MIN. | .24 | 30.5 |
| 20 | 37 | 9 | 9 | 6 | 6 | 34 | 13 | 2 - #4 BARS, 6" O.C., 53" LONG | 2 - #4 BARS, 6" O.C., 40" LONG | 14 - #4 BARS, 12" OVERLAP MIN. | .25 | 32 |
| 24 | 41 | 9 | 9 | 6 | 6 | 38 | 15 | 2 - #4 BARS, 6" O.C., 59" LONG | 2 - #4 BARS, 6" O.C., 44" LONG | 14 - #4 BARS, 12" OVERLAP MIN. | .29 | 36 |
| 30 | 47 | 9 | 9 | 6 | 6 | 44 | 18 | 2 - #4 BARS, 6" O.C., 69" LONG | 2 - #4 BARS, 6" O.C., 50" LONG | 14 - #4 BARS, 12" OVERLAP MIN. | .37 | 39 |

**MINNEAPOLIS**
DEPARTMENT OF PUBLIC WORKS

DRAWN: TDS | DATE: 1/1/12
APPROVED: RCE | DATE: 1/1/12

REINFORCED CONCRETE ENCASEMENT FOR 16", 18", 20", 24" AND 30" WATERMAINS

STANDARD PLATE NO. WATR-3001A-R1

NOT TO SCALE