

TABULATION CHARTS

| APPROXIMATE QUANTITIES (SEE NOTE 2) | | | | | | |
|-------------------------------------|------------------------------|------------------------|-------------------|--------------------|----------------|---|
| CAST IN PLACE CHAMBER | | | | | | |
| PIPE SIZES | MINIMUM DEPTH H (SEE NOTE 3) | REINFORCING STEEL LBS. | CONCRETE CU. YDS. | CHAMBER DIMENSIONS | | CONCRETE CHAMBER INCREMENTS PER FOOT (SEE NOTE 1) |
| | | | | W _C | L _C | CU. YDS. |
| 12" TO 24" | 4'-2" | 20.5 | 1.20 | 2'-6" | 3'-8" | .37 |
| 27" TO 36" | 5'-6 1/4 " | 30.33 | 2.14 | 3'-8" | 3'-8" | .43 |
| 42" TO 54" | 6'-10 1/2 " | 129.80 | 4.39 | 5'-5" | 5'-5" | .53 |
| 60" TO 72" | 8'-6" | 277.32 | 7.65 | 7'-2" | 7'-2" | .69 |

NOTES

1. FOR EACH ADDITIONAL FOOT IN DEPTH THE INCREMENT SHOWN MUST BE MULTIPLIED BY THE ADDITIONAL DEPTH IN FEET AND ADDED TO THE CONCRETE TOTAL.
2. APPROXIMATE QUANTITIES ARE SHOWN FOR BIDDING PURPOSES ONLY: ITEMS ARE NOT TO BE BID SEPARATELY. TO OBTAIN THE TOTAL APPROXIMATE CONCRETE QUANTITIES FOR EACH INLET, THE CHAMBER, SLOT AND GUTTER (GUTTER TO BE USED WITH DI-12A ONLY) QUANTITIES MUST BE ADDED TOGETHER.
3. MINIMUM DEPTHS SHOWN ARE FOR THE SMALLEST PIPE SIZE IN EACH SERIES. MINIMUM DEPTH H = PIPE DIAMETER + PIPE WALL THICKNESS + 3".
4. FOR APPROXIMATE QUANTITIES FOR DI-12A ADD 0.36 CU. YDS. OF CLASS A3 CONCRETE TO DI-12 QUANTITIES FOR CONCRETE GUTTER. QUANTITY SHOWN IS FOR A MINIMUM SLOT LENGTH OF 3'-8". FOR OTHER CONCRETE LENGTHS SEE CONCRETE GUTTER INCREMENTS IN THIS TABLE.
5. DI-12A CONCRETE GUTTER INCREMENT: ADD 0.07 CU. YDS. CLASS A3 CONCRETE FOR EACH ADDITIONAL FOOT OF SLOT LENGTH GREATER THAN MINIMUM 3'-8".
6. DOWELS ARE TO BE PROVIDED FOR THE JOINT BETWEEN THE CONCRETE GUTTER AND SLOT. THE COST OF DOWELS ARE TO BE INCLUDED IN THE CUBIC YARD COST FOR CONCRETE.
7. SLOT MAY BE PRECAST OR CAST IN PLACE.
8. L = LENGTH ROUNDED FOR PLAN USE.

| APPROXIMATE QUANTITIES | | | | | | |
|-------------------------|------------------------|------------------------|-------------------|--------------|------|-------|
| BRICK AND BLOCK CHAMBER | | | | | | |
| PIPE SIZES | CHAMBER DIMENSIONS "D" | REINFORCING STEEL LBS. | CONCRETE CU. YDS. | BRICK | | BLOCK |
| | | | | MIN. DEPTH H | NO. | NO. |
| 12" TO 24" | 4'-0" | 102.68 | 1.25 | 4'-2" | 688 | 42 |
| 27" TO 36" | 4'-0" | 102.68 | 1.25 | 5'-6 1/4" | 911 | 55 |
| 42" TO 54" | 5'-6" | 200.81 | 2.01 | 7'-10 1/2" | 1300 | 111 |
| 60" TO 72" | 8'-0" | 404.74 | 3.65 | 9'-6" | 1568 | 190 |

BRICK CHAMBER INCREMENTS PER FT.

| X DIM. | DEPTH | 4' DIAMETER APPROX. NO. BRICKS/FT. | 5'-6" DIAMETER APPROX. NO. BRICKS/FT. | 8'-0" DIAMETER APPROX. NO. BRICKS/FT. |
|--------|-----------|------------------------------------|---------------------------------------|---------------------------------------|
| 8" | 0' - 10' | 165 | 227 | 330 |
| 12" | 10' - 16' | 250 | 341 | 495 |
| 16" | 16' - 25' | 330 | 454 | 660 |

BLOCK CHAMBER INCREMENTS PER FT.

| Y DIM. | DEPTH | 4' DIAMETER APPROX. NO. BRICKS/FT. | 5'-6" DIAMETER APPROX. NO. BRICKS/FT. | 8'-0" DIAMETER APPROX. NO. BRICKS/FT. |
|--------|-----------|------------------------------------|---------------------------------------|---------------------------------------|
| 5" | 0' - 12' | 10 | 14 | 20 |
| 10" | 12' - 25' | 20 | 28 | 40 |

APPROXIMATE QUANTITIES - DI - 12 ONLY

(SEE NOTE 4)

SLOT 4' TO 14'

(SEE NOTE 8)

| L (SEE NOTE 8) | L ₁ | CONCRETE CU. YDS. | REINFORCING STEEL LBS. | GRATES NO. |
|----------------|----------------|-------------------|------------------------|------------|
| 4 | 3'-8" | 0.81 | 81.27 | 2 |
| 6 | 5'-8 3/4" | 1.10 | 122.81 | 3 |
| 8 | 7'-8" | 1.30 | 161.90 | 4 |
| 10 | 9'-8 3/4" | 1.61 | 203.37 | 5 |
| 12 | 11'-8" | 1.91 | 242.45 | 6 |
| 14 | 13'-8 3/4" | 2.22 | 283.93 | 7 |

SPECIFICATION REFERENCE

233
302

MULTIGRATE DROP INLET

FOR PIPE SIZES 12" TO 72"

VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT

ROAD AND BRIDGE STANDARDS

REVISION DATE

SHEET 3 OF 3

104.32