

**STRUCTURAL PLATE STEEL PIPE-
6" x 2" CORRUGATIONS**

| PIPE DIAMETER INCHES | AREA SQ. FT. | MINIMUM HEIGHT OF COVER IN FEET | | | | | | |
|--------------------------------|---------------------|-----------------------------------|---------------|--------------|--------------|--------------|--------------|--------------|
| | | SHEET THICKNESS IN INCHES (GAUGE) | | | | | | |
| | | 0.109 (12) | 0.138 (10) | 0.168 (8) | 0.188 (7) | 0.218 (5) | 0.249 (3) | 0.280 (1) |
| 60 | 20 | 43 | 50 | 58 | 63 | 71 | 79 | 88 |
| 66 | 24 | 36 | 42 | 48 | 51 | 58 | 64 | 70 |
| 72 | 28 | 32 | 36 | 40 | 43 | 48 | 53 | 58 |
| 78 | 33 | 28 | 32 | 35 | 38 | 41 | 45 | 49 |
| 84 | 38 | 26 | 29 | 32 | 33 | 36 | 39 | 43 |
| 90 | 44 | 24 | 27 | 29 | 30 | 33 | 35 | 38 |
| 96 | 50 | 23 | 25 | 27 | 28 | 30 | 32 | 34 |
| 102 | 57 | 22 | 23 | 25 | 26 | 28 | 29 | 31 |
| 108 | 64 | 21 | 22 | 24 | 25 | 26 | 27 | 29 |
| 114 | 71 | 20 | 21 | 23 | 23 | 25 | 26 | 27 |
| 120 | 78 | 20 | 21 | 22 | 22 | 23 | 24 | 25 |
| 132 | 95 | 19 | 20 | 20 | 21 | 22 | 22 | 23 |
| 144 | 113 | 18 | 19 | 20 | 20 | 21 | 21 | 22 |
| 156 | 133 | 18 | 18 | 19 | 19 | 20 | 20 | 21 |
| 168 | 154 | 17 | 18 | 18 | 19 | 19 | 19 | 20 |
| 180 | 177 | 15 | 18 | 18 | 18 | 19 | 19 | 19 |
| 192 | 201 | | 18 | 18 | 18 | 18 | 19 | 19 |
| 204 | 227 | | 17 | 18 | 18 | 18 | 18 | 18 |
| 216 | 254 | | | 17 | 18 | 18 | 18 | 18 |
| 228 | 284 | | | 17 | 17 | 18 | 18 | 18 |
| 240 | 314 | | | | 16 | 17 | 18 | 18 |

NOTES:

- COVER HEIGHTS INDICATED IN TABLE ARE FOR FINISHED CONSTRUCTION.
- TO PROTECT PIPE DURING CONSTRUCTION MINIMUM HEIGHT OF COVER PRIOR TO ALLOWING CONSTRUCTION TRAFFIC TO CROSS INSTALLATION IS TO BE $\frac{1}{2}$ DIAMETER. THIS COVER SHALL EXTEND THE FULL LENGTH OF THE PIPE. THE APPROACH FILL RAMP IS TO EXTEND A MINIMUM OF $10(\text{DIAMETER} + 36")$ ON EACH SIDE OF THE PIPE OR TO THE INTERSECTION WITH A CUT.
- STANDARD MINIMUM FINISHED HEIGHT OF COVER FOR ALL PIPES SHALL BE 2.0' OR $\frac{1}{2}$ DIAMETER, WHICHEVER IS GREATER. IN CASES IN WHICH THESE COVER HEIGHTS CANNOT BE ACHIEVED, AN ABSOLUTE MINIMUM FINISHED COVER HEIGHT OF 1.0' OR $\frac{1}{8}$ DIAMETER WILL BE ALLOWED ONLY IF ALL POSSIBLE MEANS TO OBTAIN THE STANDARD VALUE HAVE BEEN EXHAUSTED.
- THE MAXIMUM HEIGHT OF COVER SHOWN IN THE TABLES IS BASED ON A SOIL MODULUS OF 700 PSI. ALL OTHER DESIGN CRITERIA ARE IN ACCORDANCE WITH AASHTO SPECIFICATIONS AND VDOT MODIFICATIONS FOR SOIL CORRUGATED METAL STRUCTURE INTERSECTION SYSTEMS.
- STRUCTURAL PLATE PIPE DIMENSIONS ARE TO INSIDE CREST AND ARE SUBJECT TO MANUFACTURING TOLERANCES.
- SEE STANDARD PB-1 FOR BEDDING AND BACKFILL REQUIREMENTS.

SHEET 8 OF 18

**STRUCTURAL PLATE STEEL PIPE
HEIGHT OF COVER TABLE FOR H-20 LIVE LOAD**

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION
REFERENCE232
302

REV. 7/05

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