

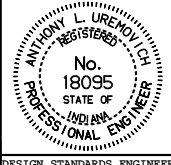
**REINFORCED CONCRETE CIRCULAR PIPE  
HEIGHT OF COVER LIMITS (m)**

| DIAMETER<br>(mm) | Strength Class/D-load Rating     |      |                                  |      |                                  |      |                                 |      |                                 |      |
|------------------|----------------------------------|------|----------------------------------|------|----------------------------------|------|---------------------------------|------|---------------------------------|------|
|                  | Class IV: D <sub>0.3</sub> = 110 |      | Class IV: D <sub>0.3</sub> = 125 |      | Class IV: D <sub>0.3</sub> = 135 |      | Class V: D <sub>0.3</sub> = 140 |      | Class V: D <sub>0.3</sub> = 150 |      |
|                  | MIN.                             | MAX. | MIN.                             | MAX. | MIN.                             | MAX. | MIN.                            | MAX. | MIN.                            | MAX. |
| 300              | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                            | 30.5 | 0.30                            | 30.5 |
| 375              | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                            | 30.5 | 0.30                            | 30.5 |
| 450              | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                            | 30.5 | 0.30                            | 30.5 |
| 525              | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                            | 30.5 | 0.30                            | 30.5 |
| 600              | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                            | 30.5 | 0.30                            | 30.5 |
| 675              | 0.30                             | 28.0 | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                            | 30.5 | 0.30                            | 30.5 |
| 750              | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                            | 30.5 | 0.30                            | 30.5 |
| 825              | 0.30                             | 27.1 | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                            | 30.5 | 0.30                            | 30.5 |
| 900              | 0.30                             | 24.1 | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                            | 30.5 | 0.30                            | 30.5 |
| 1050             | 0.30                             | 20.7 | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                            | 30.5 | 0.30                            | 30.5 |
| 1200             | 0.30                             | 18.6 | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                            | 30.5 | 0.30                            | 30.5 |
| 1350             | 0.30                             | 17.4 | 0.30                             | 30.5 | 0.30                             | 30.5 | 0.30                            | 30.5 | 0.30                            | 30.5 |
| 1500             | 0.30                             | 9.1  | 0.30                             | 11.3 | 0.30                             | 13.7 | 0.30                            | 17.4 | 0.30                            | 22.9 |
| 1650             | 0.30                             | 9.4  | 0.30                             | 11.6 | 0.30                             | 14.0 | 0.30                            | 17.4 | 0.30                            | 22.6 |
| 1800             | 0.30                             | 9.8  | 0.30                             | 11.6 | 0.30                             | 14.3 | 0.30                            | 17.4 | 0.30                            | 22.3 |
| 1950             | 0.30                             | 9.8  | 0.30                             | 11.9 | 0.30                             | 14.3 | 0.30                            | 17.4 | 0.30                            | 21.9 |
| 2100             | 0.30                             | 10.1 | 0.30                             | 11.9 | 0.30                             | 14.3 | 0.30                            | 17.4 | 0.30                            | 21.3 |
| 2250             | 0.30                             | 10.1 | 0.30                             | 12.2 | 0.30                             | 14.3 | 0.30                            | 17.4 | 0.30                            | 21.0 |
| 2400             | 0.30                             | 10.1 | 0.30                             | 12.2 | 0.30                             | 14.3 | 0.30                            | 17.1 | 0.30                            | 20.7 |
| 2550             | 0.34                             | 10.4 | 0.34                             | 12.2 | 0.34                             | 14.3 | 0.34                            | 17.1 | 0.34                            | 20.4 |
| 2700             | 0.37                             | 10.4 | 0.37                             | 12.2 | 0.37                             | 14.3 | 0.37                            | 16.8 | 0.37                            | 20.1 |
| 2850             | 0.37                             | 10.4 | 0.37                             | 12.2 | 0.37                             | 14.3 | 0.37                            | 16.8 | 0.37                            | 19.8 |
| 3000             | 0.40                             | 10.4 | 0.40                             | 12.2 | 0.40                             | 14.3 | 0.40                            | 16.8 | 0.40                            | 19.5 |
| 3150             | 0.43                             | 10.4 | 0.43                             | 12.2 | 0.43                             | 14.3 | 0.43                            | 16.5 | 0.43                            | 19.2 |
| 3300             | 0.43                             | 10.4 | 0.43                             | 12.2 | 0.43                             | 14.0 | 0.43                            | 16.5 | 0.43                            | 19.2 |
| 3450             | 0.46                             | 10.4 | 0.46                             | 12.2 | 0.46                             | 14.0 | 0.46                            | 16.5 | 0.46                            | 18.9 |
| 3600             | 0.46                             | 10.4 | 0.46                             | 12.2 | 0.46                             | 14.0 | 0.46                            | 16.2 | 0.46                            | 18.6 |

**NOTE:**

- The tabulated cover depths shall be measured from the bottom of the bituminous or concrete pavement to the top of the pipe.

All dimensions are in mm unless otherwise specified.

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| INDIANA DEPARTMENT OF TRANSPORTATION  |  |
| <b>PIPE HEIGHT OF<br/>COVER LIMITS</b>  |  |
| JANUARY 1998  |  |
| STANDARD DRAWING NO. 715-PHCL-22  |  |
|  | /s/ Anthony L. Uremovich 1-02-98<br>DESIGN STANDARDS ENGINEER DATE |
| Source Sheet: NONE  | /s/ Donald W. Lucas 1-02-98<br>CHIEF HIGHWAY ENGINEER DATE         |