

20-JUL-2020  
RD386.dgn

| ALLOWABLE FILL HEIGHTS<br>FOR CIRCULAR CONCRETE PIPE<br>HS 25 - 44 LIVE LOAD |                            |                            |                            |                            |                            |                            |
|------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| PIPE<br>DIAMETER<br>(INCHES)                                                 | REINFORCED PIPE            |                            |                            |                            |                            |                            |
|                                                                              | CLASS III                  |                            | CLASS IV                   |                            | CLASS V                    |                            |
|                                                                              | MINIMUM<br>COVER<br>(Feet) | MAXIMUM<br>COVER<br>(Feet) | MINIMUM<br>COVER<br>(Feet) | MAXIMUM<br>COVER<br>(Feet) | MINIMUM<br>COVER<br>(Feet) | MAXIMUM<br>COVER<br>(Feet) |
| 12                                                                           | 1.5                        | 17                         | 1.0                        | 27                         | 0.5                        | 41                         |
| 15                                                                           | 1.5                        | 18                         | 1.0                        | 27                         | 0.5                        | 42                         |
| 18                                                                           | 1.5                        | 18                         | 1.0                        | 27                         | 0.5                        | 42                         |
| 21                                                                           | 1.5                        | 17                         | 1.0                        | 27                         | 0.5                        | 42                         |
| 24                                                                           | 1.5                        | 17                         | 1.0                        | 27                         | 0.5                        | 42                         |
| 27                                                                           | 1.5                        | 17                         | 1.0                        | 27                         | 0.5                        | 41                         |
| 30                                                                           | 1.5                        | 17                         | 1.0                        | 27                         | 0.5                        | 41                         |
| 33                                                                           | 1.5                        | 17                         | 1.0                        | 27                         | 0.5                        | 41                         |
| 36                                                                           | 1.5                        | 17                         | 1.0                        | 26                         | 0.5                        | 41                         |
| 42                                                                           | 1.5                        | 17                         | 1.0                        | 26                         | 0.5                        | 41                         |
| 48                                                                           | 1.5                        | 16                         | 1.0                        | 26                         | 0.5                        | 41                         |
| 54                                                                           | 1.5                        | 16                         | 1.0                        | 26                         |                            |                            |
| 60                                                                           | 1.5                        | 16                         | 1.0                        | 26                         |                            |                            |
| 66                                                                           | 1.5                        | 16                         | 1.0                        | 26                         |                            |                            |
| 72                                                                           | 1.5                        | 16                         | 1.0                        | 25                         |                            |                            |

- GENERAL NOTES FOR ALL TABLES ON THIS SHEET:
- Maximum height of cover is greatest vertical distance from top of pipe to finish grade.
  - Minimum height of cover is least vertical distance from top of pipe to subgrade.
  - For ODOT, pipes with diameters greater than 72" must be reviewed by the Geo-Environmental Section.
  - For ODOT, pipes with maximum cover greater than those shown in the Tables shall be approved by the Senior Standards Engineer.
  - For multiple pipe installations, see Std. Dwg. RD300.
  - Open ends of pipes normally require a site specific design, and may require special treatment (sloped ends, culvert embankment protection, paved end slopes, safety end sections, or other measures). See special details or Standard Drawings as called for on plans.

|                                                                                                                                                                                                                                                                              |  |  |  |                                                                                       |                      |                           |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------|----------------------|---------------------------|-------|
| <i>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.</i> |  |  |  | All materials shall be in accordance with the current Oregon Standard Specifications. |                      |                           |       |
|                                                                                                                                                                                                                                                                              |  |  |  | OREGON STANDARD DRAWINGS                                                              |                      |                           |       |
|                                                                                                                                                                                                                                                                              |  |  |  | FILL HEIGHT TABLE FOR CIRCULAR CONCRETE PIPE                                          |                      |                           |       |
|                                                                                                                                                                                                                                                                              |  |  |  | 2024                                                                                  |                      |                           |       |
|                                                                                                                                                                                                                                                                              |  |  |  | DATE                                                                                  | REVISION DESCRIPTION |                           |       |
|                                                                                                                                                                                                                                                                              |  |  |  |                                                                                       |                      |                           |       |
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|                                                                                                                                                                                                                                                                              |  |  |  | CALC. BOOK NO. _ _ _ _                                                                | N/A _ _ _ _          | SDR DATE- 16-JUL-2019 _ _ | RD386 |