

Manhole Frame and Cover
 Heavy Duty: Neenah R-1642A or Equal
 Watertight: Neenah R-1916-F or Equal

Finished Pavement
 per Engineering Dept. Specs

Concrete Adjusting Rings
 Limited to (3) Rings.
 Maximum Combined Height
 of 12". Rings Must be Butyl
 Rubber Coated With Plastic Wrap
 Cover.

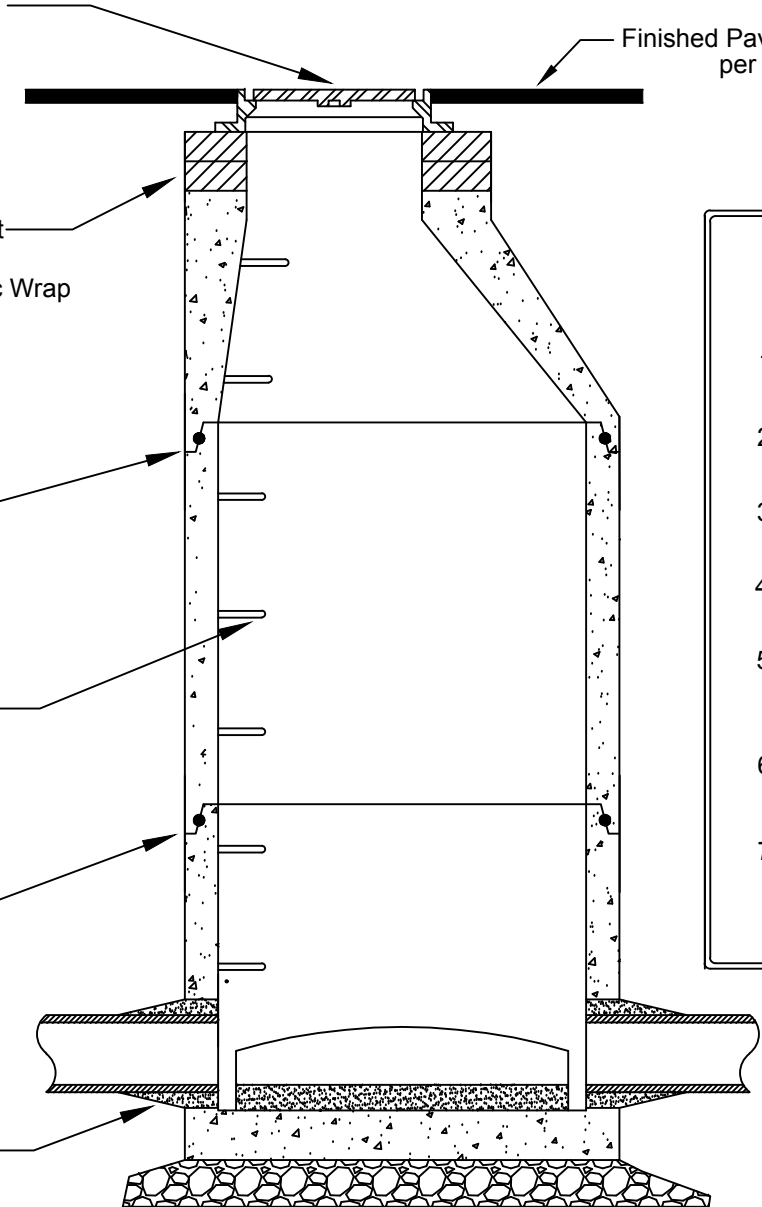
Butyl Rubber Coating With
 .8 Mil Plastic Wrap Cover At All
 Joints And Lift Holes
 Typical: 12" Wide

Remove Manhole Steps
 If Requested By Utility

Set Barrel Joints With Gasket
 Equal to ASTM C-443 And On
 Minimum of 1" Wide Kent Seal

Watertight Flexible Boots Must
 Be Used At All Openings

Bed Base Section In Min. 6"
 Compacted #8 Granular Material



NOTES

1. All Manhole Sections Must Conform To ASTM C478 Specifications.
2. Type I - 4'-0" I.D.
For Sewers 18" Dia. & Smaller
3. Type II - 5'-0" I.D.
For Sewers 21" Dia - 30" Dia.
4. All Openings & Flow Channels Must Be Precast.
5. All Manhole Sections Must Have Minimum 10 Mil Bituminous Coating Applied to Entire Exterior.
6. All Lift Holes Must Be Filled With Sealant Approved By Utility.
7. Manholes Shall Be Installed At Distances No Greater Than 400' Apart

City of Carmel Utilities
 Standard Details

Title: TYPE I & II
 MANHOLES

Date: January 2016

Scale: Not To Scale

Drawing: CS 7

Page 6