

Specification Templates for the HDPE Adjusting Ring.

1. In lieu of round concrete rings, all casting shall be raised using round High Density Polyethylene (HDPE) rings or an approved equal.
2. All adjusting rings shall be injection molded-recycled HDPE - as manufactured by LADTECH, Inc. or approved equal and installed as per manufacture's recommendations.
3. Sanitary sewer and storm sewer manholes:  
The city is changing from concrete adjusting rings to High Density Polyethylene (HDPE) rings for all manholes.
4. The city is requiring that in lieu of concrete adjusting rings, all manholes shall utilize the round High Density Polyethylene (HDPE) recycled adjusting rings.
5. All final grade adjustment of manhole covers and frame assemblies shall be completed utilizing injection molded High Density Polyethylene (HDPE) adjustment rings as manufactured by LADTECH, Inc. or an approved equal.
  - 5.1 The adjustment rings shall be manufactured from polyethylene plastic as identified in ASTM Designation D-1248 Standard Specification for Polyethylene Plastic Molding and Extrusion Materials).
  - 5.2 Material properties shall be tested and qualified for usage per the ASTM Test Methods referenced in the above ASTM standard.
  - 5.3 The adjustment rings shall be molded from 100% recycled material.
  - 5.4 The plastic rings shall be manufactured utilizing the injection molding process as defined by SPE (Society of Plastic Engineers).
  - 5.5 The adjustment rings shall be tested to assure compliance with impact and loading requirements

per the ASSHTO Standard Specification for Highway Bridges.

5.6 Installation shall be per manufacture's recommendations only.

5.7 The annular space between the rings and cone basin, the rings, and the rings and cover frame shall be sealed utilizing an approved butyl sealent.

5.8 All adjustment for matching road grade shall be made utilizing a molded and indexed slope ring.

5.9 All grade rings shall be covered by the LADTECH, Inc. warranty or one of equal terms and duration.