CIRCULAR PIT RISER INSTALLATION

STEP 1
- Excavate around existing pit to a depth of 300mm below the collar.
- Remove and recover existing bolts, nuts, washers and the collar.
- Remove the 12 bolts in the empty holes of the supplied nut kit.

STEP 2
- Attack new kit in place of previous collar using the 12 new bolts and nuts.
- Squarely cut off from the pit floor any surplus plastic so the top of the extended plastic pit finishes 50mm down from the finished surface level (FSL).

STEP 3
- Fit the previous collar on top of the riser and drill new bolt holes.
- Fit the previous recovered 12 x M16 bolts, washers and nuts into the collar as per Standard Drawing 1415.

STEP 4
- Back fill around the pit riser from 300mm below the new joint to just below the finished surface level with compact stabilised sand in accordance with WRT551.

NOTES:
1. Circular pit riser to be of minimum 600 LD, and maximum 700 LD; wall thickness to be 13mm 32mm, absolute minimum wall thickness of 11mm. The maximum height shall be 270mm.
2. The pit riser shall have sufficient vertical strength to support the Class H design load applied in accordance with AS 3996 where the load is transferred from the collar into the pit wall only via 12 x M16 bolts. The resultant permanent vertical deformation of the pit and collar system after the load is removed shall be less than 10mm.
3. The collar shall be placed on the pit prior to comparison of the backfill material to prevent abrasion of the top of the pit.
4. Galvanised caphead M16 bolts with washers to fit shall be used to permanently attach the collar to the pit. All nuts are to be galvanised and secured to the bolts on the outside of the collar.
5. Maximum allowable depth of pit is 1500mm.
6. Pit shall be transported and stored upright.
7. Total pit filling rates shall be less than 40khp.
8. Backfill shall be compacted in accordance with WRT551.
9. Pits may not be extended with the approval of the project superintendent.
10. If the existing pit is on a slope instead of horizontal then risers may not be installed into a pit without the approval of a Structural Engineer.
11. DIMENSIONS are in millimetres unless shown otherwise.

ASSOCIATED DEPARTMENTAL DOCUMENTS:
- Standard Drawings
- Specifications

REFERENCED DOCUMENTS:
- Departmental Standard Drawings:
  - 1414 Traffic Signals/Road Lighting - Cable Jointing Pit Drawings Details
  - 1415 Traffic Signals/Road Lighting - Cable Jointing Pit Type 60
  - 1416 Traffic Signals/Road Lighting - Collar for 600 Diameter Circular Cable, Jointing Pit
  - 1417 Traffic Signals/Road Lighting - Cable Jointing Pit Circular 600 Diameter Collar
- Departmental Standard Specifications:
  - WRT551: Conduits and Fittings
- Australian Standards
  - AS 1118: 650 metric Hexagon Bolts and Nuts
  - AS 3996: Access Covers and Frames

⚠️ INSTALLATION OF CONDUITS AND FITTINGS IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAL CONTRACTOR.