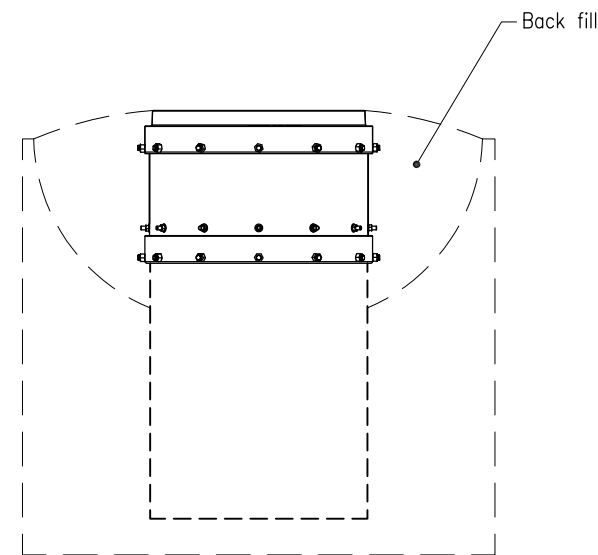


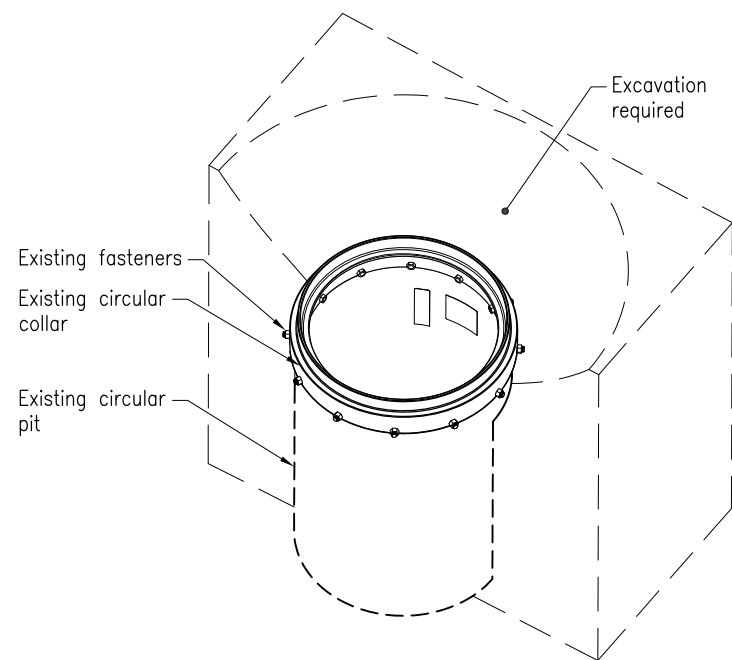
STEP 2

- Attach riser kit in place of previous collar using the 12 new bolts and nuts.
- Squarely cut off from the pit riser any surplus plastic so the top of the extended plastic pit finishes 55mm down from the Finished Surface Level (FSL).



STEP 4

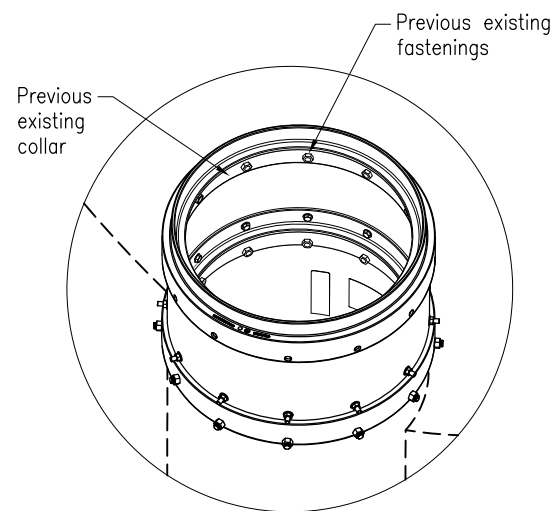
- Back fill around the pit riser from 300mm below the riser joint to just below the finished surface level with cement stabilised sand in accordance with MRTS91.



STEP 1

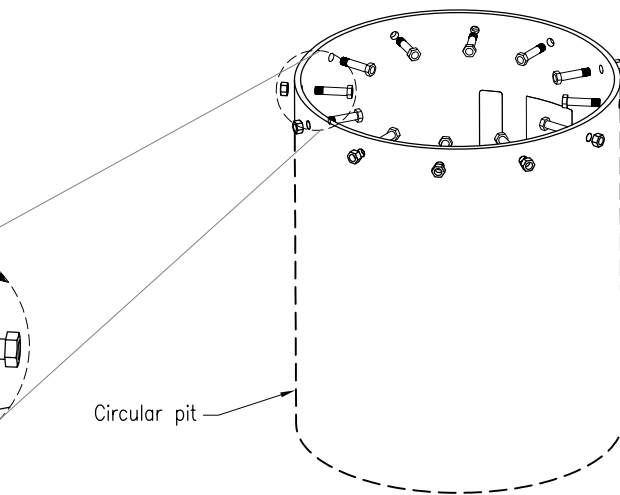
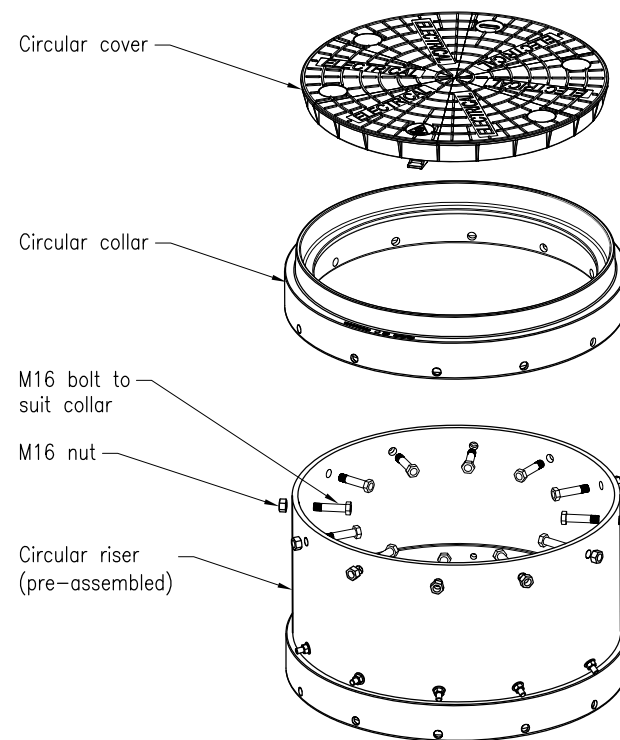
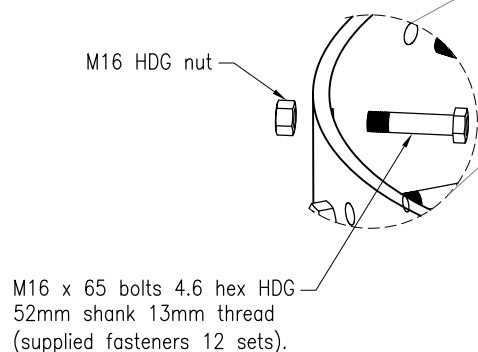
- Excavate around existing pit to a depth of 300mm below the collar.
- Remove and recover existing bolts, nuts, washers and the collar.
- Remove the 12 bolts in the empty holes of the supplied riser kit.

CIRCULAR PIT RISER INSTALLATION



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.



RISER ASSEMBLY COMPONENTS

NOTES:

1. Circular pit of type 60 to be 600 I.D. and circular pit of type 100 to be 1000 I.D., wall thickness to be 13mm ±2mm, absolute minimum thickness of 11mm. The maximum height shall be 275mm.
2. The pit riser shall have sufficient vertical strength to support the Class B design load applied in accordance with AS 3996 where the load is transferred from the collar into the pit wall only via 12-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 compaction of the backfill material to prevent elongation of the top of the pit.
4. Galvanised cuphead 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 lifting mass shall be less than 40kg.
8. Backfill shall be compacted in accordance with MRTS91.
9. Pits may only 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:
1314 Traffic Signals/Road Lighting – Cable Jointing Pit Drainage Details
1415 Traffic Signals/Road Lighting – Cable Jointing Pit Types 60 and 100
1416 Traffic Signals/Road Lighting – Collar for Circular Cable Jointing Pit
1417 Traffic Signals/Road Lighting – Cable Jointing Pit–Circular Pit Cover

Departmental Specifications:
MRTS91 Conduits and Pits

Australian Standards:
AS 1111 ISO Metric Hexagon Bolts and Screws
AS 3996 Access Covers and Grates

INSTALLATION OF CONDUITS AND PITS IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAL CONTRACTOR

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TRAFFIC SIGNALS/ROAD LIGHTING				A3	Standard Drawing No
RISER FOR CIRCULAR CABLE JOINTING PIT		Not to Scale	1681		
			Date 3/2021		
A	B	C	D		