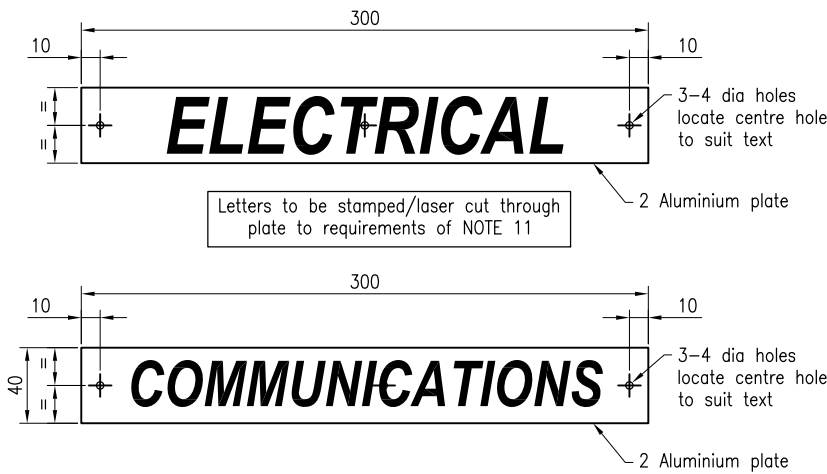


COVER ASSEMBLY  
(TOPSIDE VIEW)



ALUMINIUM TEXT PLATE DETAILS

REFERENCED DOCUMENTS:

Departmental Standard Drawings:

1416 Traffic Signals/Road Lighting – Collar for Circular Cable Jointing Pit

Departmental Specifications:

MRTS78 – Fabrication of Structural Steelwork

MRTS91 – Conduits and Pits

Australian Standards:

AS 1101.3

Graphical symbols for general engineering–Welding and non-destructive examination.

AS 1163

Cold-formed structural steel hollow sections

AS/NZS 1554.1

Structural steel welding–welding of steel structures

AS/NZS 1554.6

Structural steel welding–welding stainless steels for structural purposes

AS/NZS 3678

Structural steel–Hot rolled plates, floorplates and slabs

AS/NZS 3679

Structural steel–Hot rolled bars and sections

AS 3996

Access covers and grates

AS/NZS 4680

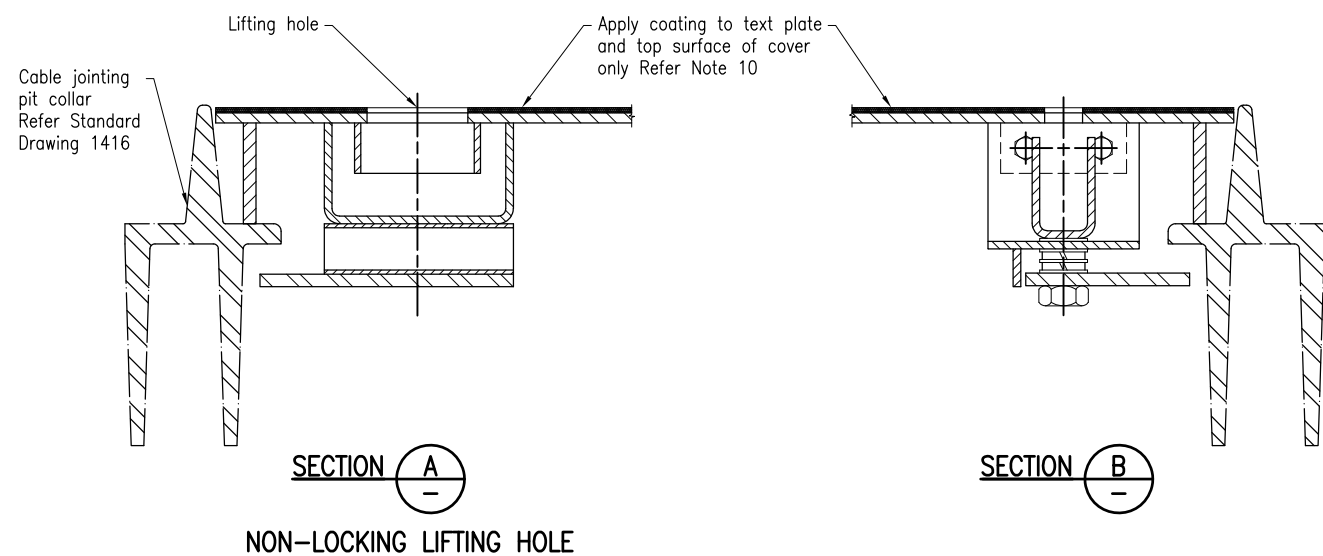
Hot-dip galvanized (zinc) coatings on fabricated ferrous articles

AS/NZS 14341

Welding Consumables – Wire Electrodes and Weld Deposits for Gas Shielded Metal Arc Welding of Non alloy and Fine Grain Steels – Classifications

AS/NZS ISO 17632

Welding Consumables – Tubular Cored Electrodes for Gas Shielded and Non-gas Shielded Metal Arc Welding of Non-alloy and Fine Grain Steels – Classification



SECTION A  
NON-LOCKING LIFTING HOLE

SECTION B  
NON-LOCKING LIFTING HOLE

SECTION C  
LOCKING LIFTING HOLE

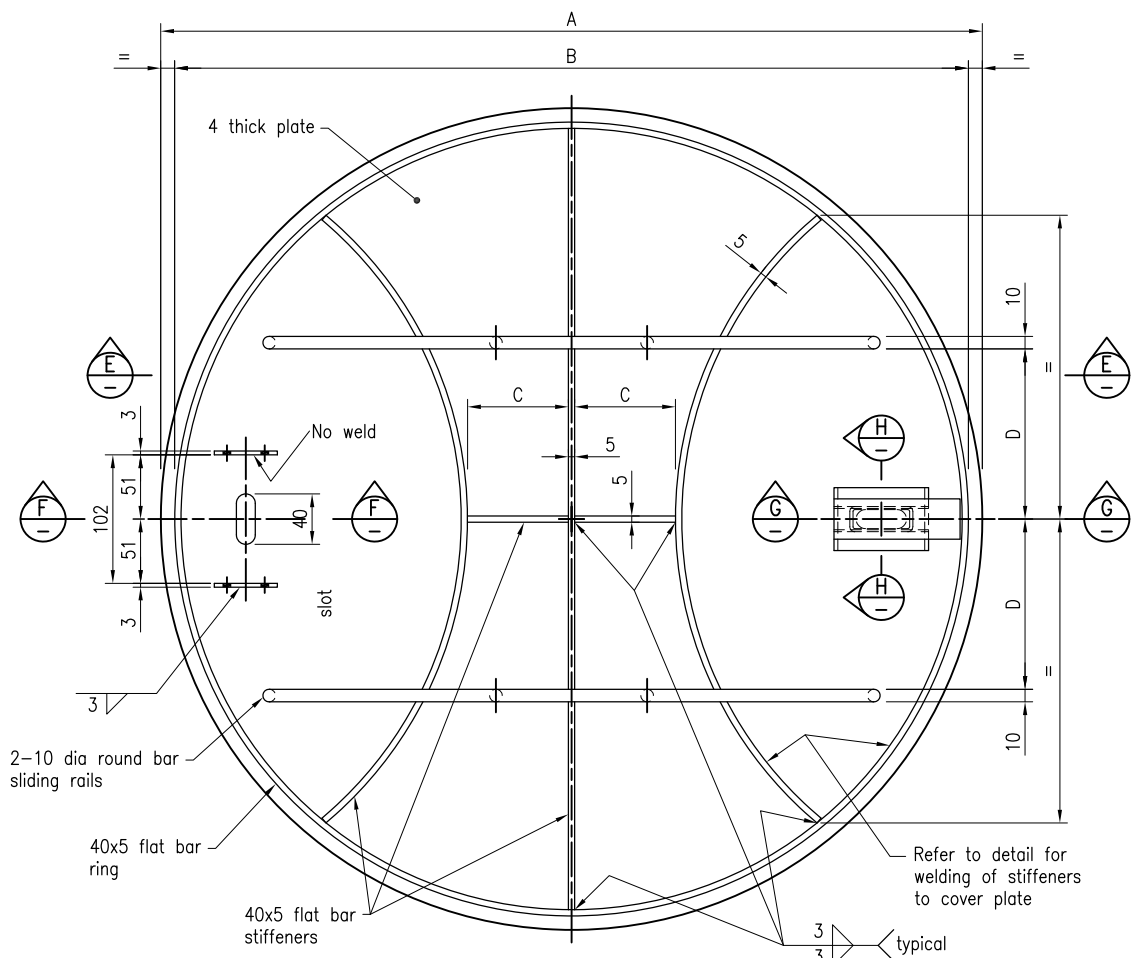
NOTES:

- Circular cover is for circular pits that meet the requirements of MRTS91.
- Circular cover to meet AS 3996 Class B design load and the requirements of MRTS91.
- Cover is not be used in roadways.
- Total cover lifting mass is to be less than 25kg.
- MATERIALS  
Structural Steel  
– Plates to be Grade 250 to AS/NZS 3678  
– PFC, round bar and flat bar to be Grade 300 to AS/NZS 3679.1  
– CHS to be Grade 350L0 to AS/NZS 1163.  
  
Stainless Steel  
– Plates and flat bar to be Grade 316.  
– Stainless steel bolts and washers to be Grade 304 and nuts Grade 316 unless shown otherwise.  
– Stainless steel bolts and nuts to have an ISO coarse pitch metric thread.
- WELDING  
Welding symbols are to AS 1101.3  
Structural Steel  
– Welding to conform to AS/NZS 1554.1  
– Welds to be SP category  
– Welding consumables to be controlled hydrogen type: G493 to AS/NZS ISO 14341-B or T493 to AS/NZS ISO 17632-B unless shown otherwise.  
  
Stainless Steel  
– Welding to conform to AS/NZS 1554.6  
– Weld quality 1B, II(a)  
– Welding consumables to be E316L unless shown otherwise.
- All edges are to be smooth.
- All steelwork to be cleaned and welding slag removed prior to hot dip galvanising to AS/NZS 4680.
- Steelwork to be fabricated to the requirements of MRTS78.
- A non-slip, non-conductive coating is to be applied to the top surface of the cover, and the aluminium text plate. Coating is to meet requirements of MRTS91.
- MARKING OF COVERS  
Covers to be marked with letters 'ELECTRICAL' or 'COMMUNICATIONS' as ordered. Text is to be uppercase Arial font and have a minimum height of 30mm for 'ELECTRICAL' and 24mm for 'COMMUNICATIONS'. The markings to be undertaken by engraving into the coating to a depth of 2mm (if facilitated by the coating) or by fastening and then coating an aluminium text plate (refer to detail). A permanent identifying label is to be attached to the underside of each cover and state '[Manufacturer's Name]', '[Date of Manufacture month/year]' and '[Weight of product in kg]'. An additional permanent identifying label is to be attached to the underside of each cover and state '[Name of Coating Supplier]'. Self adhesive stick on labels are not to be used as the permanent identifying labels. Use of steel or aluminium labels riveted to middle structural support is acceptable. If an aluminium plate is used, the plate can be attached after the non-slip coating has been applied.
- Dimensions are in millimetres unless shown otherwise.

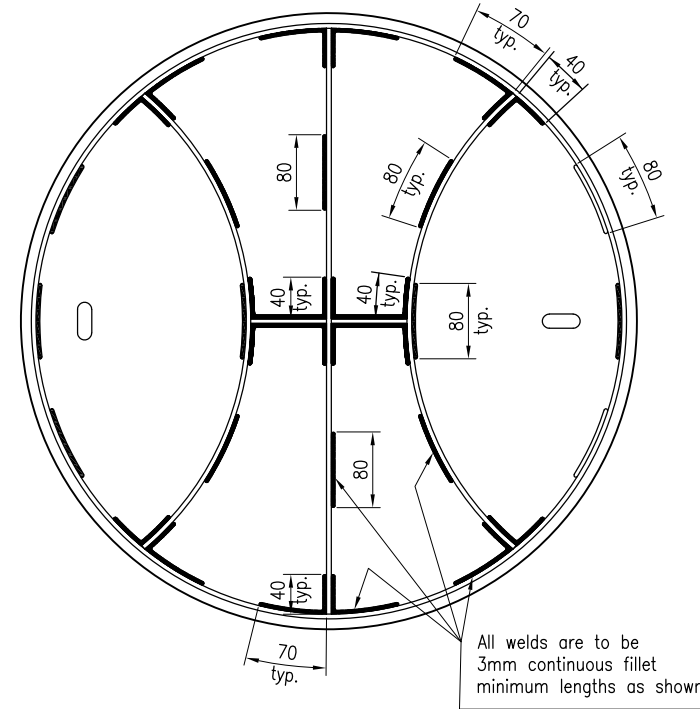
ASSOCIATED DEPARTMENTAL DOCUMENTS:

Standard Drawings  
Specifications

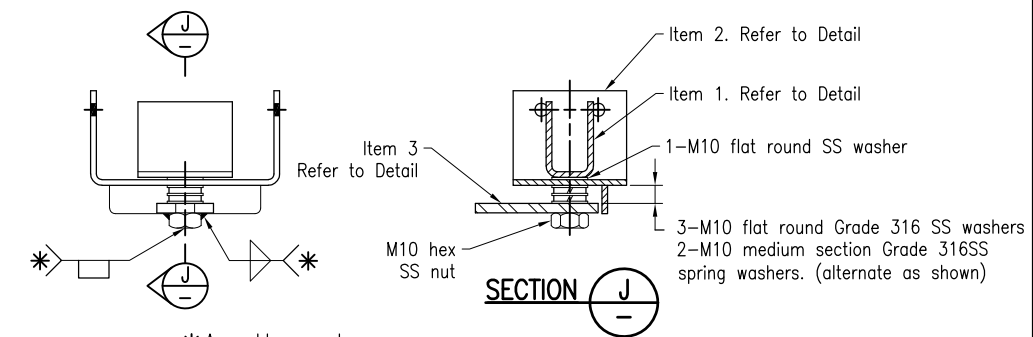
Department of Transport and Main Roads			
TRAFFIC SIGNALS/ROAD LIGHTING			
CABLE JOINTING PIT CIRCULAR PIT COVER DRAWING 1 OF 2		A3 Not to Scale	Standard Drawing No <b>1417</b> Date 7/2021
A	B	C	D
E	F	G	



STEEL COVER - FABRICATION DETAILS  
(UNDERSIDE VIEW)

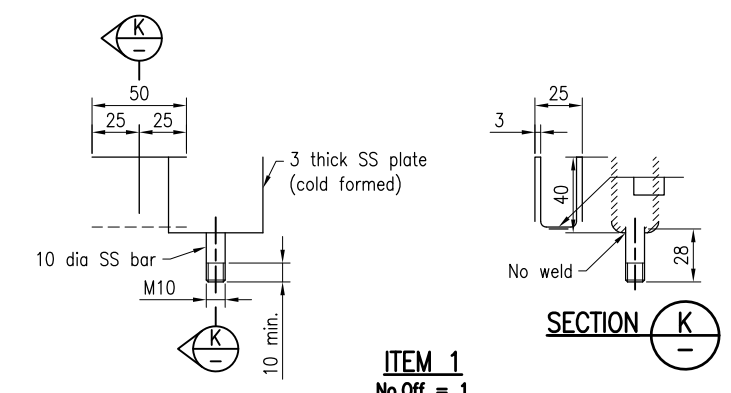


WELDING DETAILS FOR  
STIFFENERS TO COVER PLATE



\* Assembly procedure:  
Fit item 1 into Item 2 using flat washer.  
Fit 3 flat washers and 2 spring washers as shown and then Item 3.  
Fit nut and tighten to a torque of 2 Nm.  
Weld nut to item 3 (2 sides only).  
Position item 3 at 90° to item 1 as shown.  
Plug weld nut to item 1.

LOCKING DEVICE-SUB ASSEMBLY

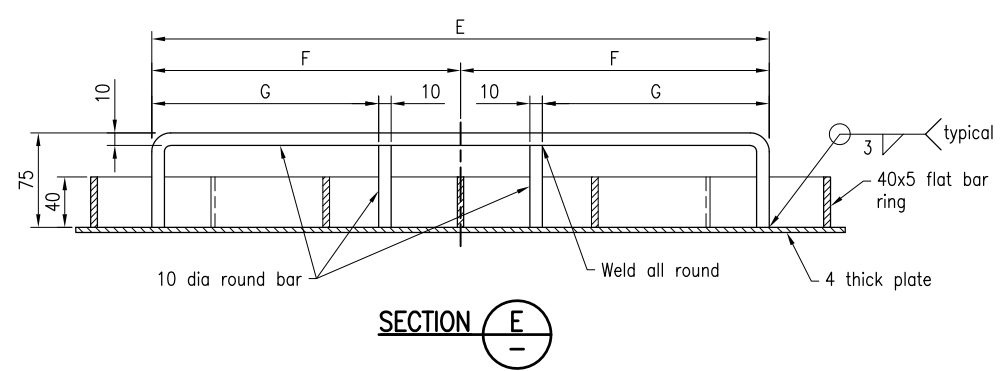


ITEM 1  
No.Off = 1

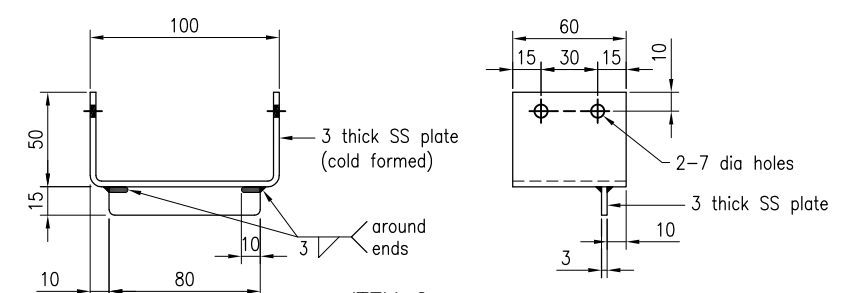
ITEM 2  
No.Off = 1

Steel Cover Dimension

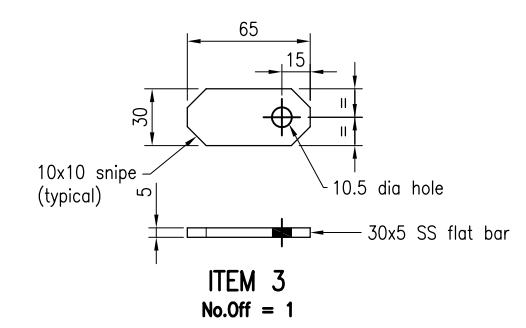
DIM	Type 60	Type 100
A	ø652 ±1	ø1052 ±1
B	ø630 ±2	ø1030 ±2
C	80	135
D	135	225
E	490	815
F	245	407.5
G	180	300
H	60	100
I	67.5	107.5



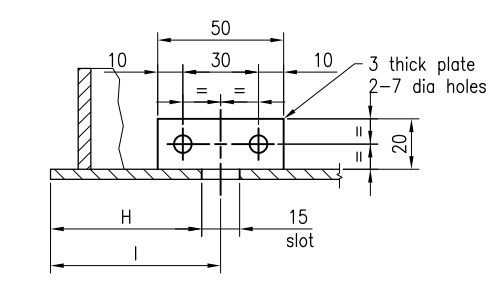
SECTION E-E



ITEM 2  
No.Off = 1

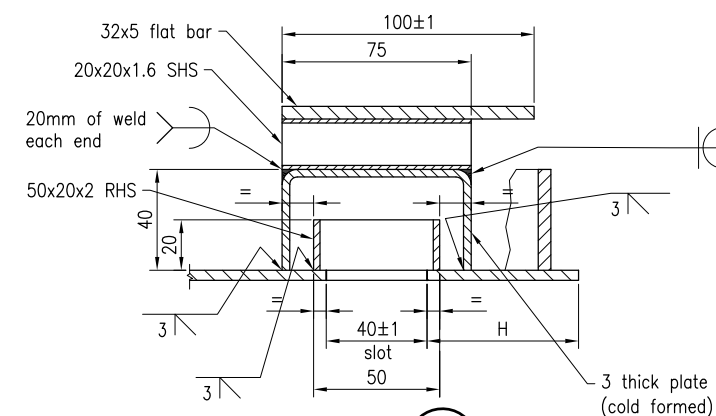


ITEM 3  
No.Off = 1



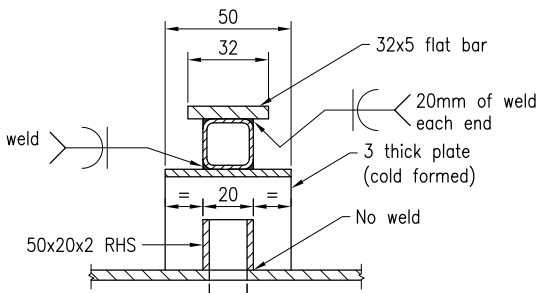
SECTION F-F

LOCKING DEVICE MOUNT DETAILS



SECTION G-G

NON-LOCKING DEVICE DETAILS



SECTION H-H

Department of Transport and Main Roads			
TRAFFIC SIGNALS/ROAD LIGHTING			
CABLE JOINTING PIT CIRCULAR PIT COVER DRAWING 2 OF 2		A3 Not to Scale	Standard Drawing No <b>1417</b> Date 7/2021