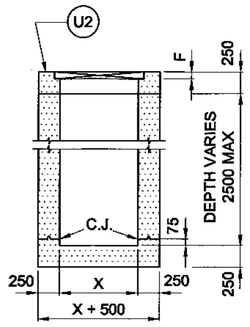
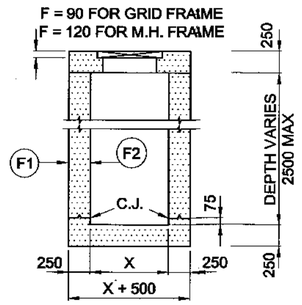
FRAME CAST IN SLAB

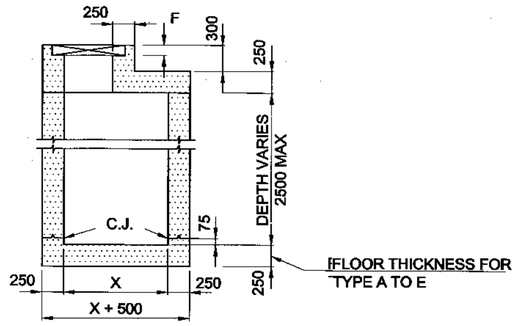


SECTION A-A
SCALE 1:50

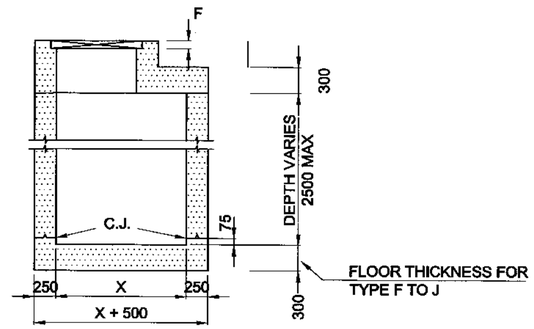


SECTION B-B
SCALE 1:50

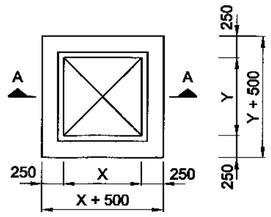
TYPICAL 300 mm SHAFT ON COVER SLAB



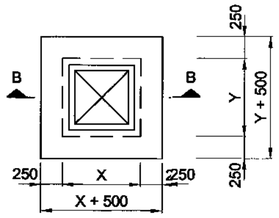
SECTION C-C
SCALE 1:50



SECTION D-D
SCALE 1:50

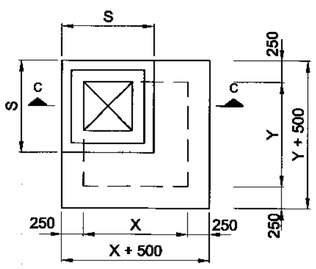


POSITION 1
SCALE 1:50

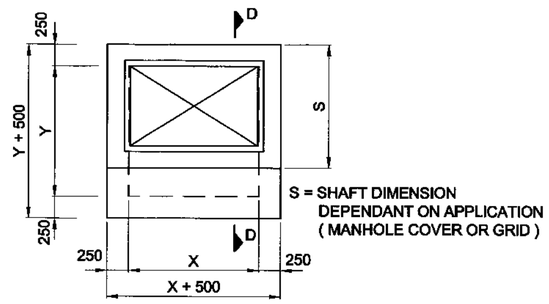


POSITION 2
SCALE 1:50

S = SHAFT DIMENSION
DEPENDANT ON APPLICATION
(MANHOLE COVER OR GRID)



POSITION 3
SCALE 1:50



S = SHAFT DIMENSION
DEPENDANT ON APPLICATION
(MANHOLE COVER OR GRID)

POSITION 4
(DOUBLE GRID INLET)
SCALE 1:50

TYPICAL POSITION OF FRAME ON COVER SLAB FOR MANHOLES AND GRID INLETS

CHAMBER TYPE	DIMENSION					MANHOLES		INLETS WITH SINGLE GRID		INLETS WITH DOUBLE GRID	
	CHAMBER		EXTERNAL		FLOOR	Position of frame	300mm shaft on cover slab	Position of frame	300mm shaft on cover slab	Position of frame	300mm shaft on cover slab
	X	Y	X+500	Y+500							
A	900	900	1400	1400	250	2	NO	1	NO	NOT APPLICABLE (N/A)	
B	1200	900	1700	1400	250	3	NO	4	NO		
C	1200	1200	1700	1700	250	3	YES	2	NO		
D	1500	1200	2000	1700	250	3	YES	3	YES		
E	1500	1500	2000	2000	250	3	YES	3	YES		
F	2000	1500	2500	2000	300	3	YES	3	YES	4	YES
G	2000	2000	2500	2500	300	3	YES	3	YES	4	YES
H	2500	2000	3000	2500	300	3	YES	3	YES	4	YES
I	2500	2500	3000	3000	300	3	YES	3	YES	3	YES
J	2000	1000	2500	1500	300	N/A		N/A		2	NO

NOTES

1. CONCRETE FOR CHAMBERS TO BE REINFORCED.
2. FOR TRAFFIC LOADING REFER TO TMH 7 PART 1 AND 2, LATEST REVISION 3.
3. DETAILS OF REINFORCEMENT AND CONCRETE CLASS TO BE PROVIDED BY THE DESIGN CONSULTANT.
4. 840 x 840 x 120 RECESS TO ACCOMMODATE MANHOLE COVER AND FRAME TYPE 2A ACCORDING TO SABS 558.
5. FOR GRID DETAILS REFER TO DRAWING NO. TD-D-SG-001 AND TD-D-SG-002.
6. FOR SELECTION OF CHAMBER SIZE REFER TO DRAWING NO: TD-D-MC-001.

FOR LATEST VERSION CHECK www.nra.co.za

No.	DATE	REVISION	APPROVED
V1	SEPT 2014	ORIGINAL VERSION	

SANRAL TYPICAL DRAWINGS

COPYRIGHT: THIS DRAWING IS PROTECTED IN TERMS OF THE COPYRIGHT ACT No. 98 OF 1978 AND MAY NOT BE REPRODUCED WITHOUT PERMISSION IN WRITING FROM SANRAL.
CONDITIONS FOR USE: CONSULTANTS APPOINTED BY SANRAL SHALL INCORPORATE THE TYPICAL DETAILS HEREON INTO THEIR SPECIFIC DESIGN FOR WHICH THEY WILL ASSUME FULL PROFESSIONAL RESPONSIBILITY. THIS TYPICAL DRAWING MAY NOT BE USED FOR TENDER PURPOSES.

THE SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg. No.1998/009884/30

HEAD OFFICE
48 Tambotie Avenue
Val de Grace
Pretoria
0184
PO Box 415
Pretoria 0001
South Africa
Tel: (012) 844 8000

APPROVED
DATE: 2015/06/04

TYPICAL DRAWINGS - DRAINAGE

MANHOLES AND GRID INLET CHAMBERS
GENERAL ARRANGEMENT OF CHAMBERS
SHEET 2 OF 4

SANRAL DOC. No. (PDF) 1693206
SANRAL DOC. No. (DWG) 1797255
SANRAL DRAWING No. TD-D-MC-1002-V1