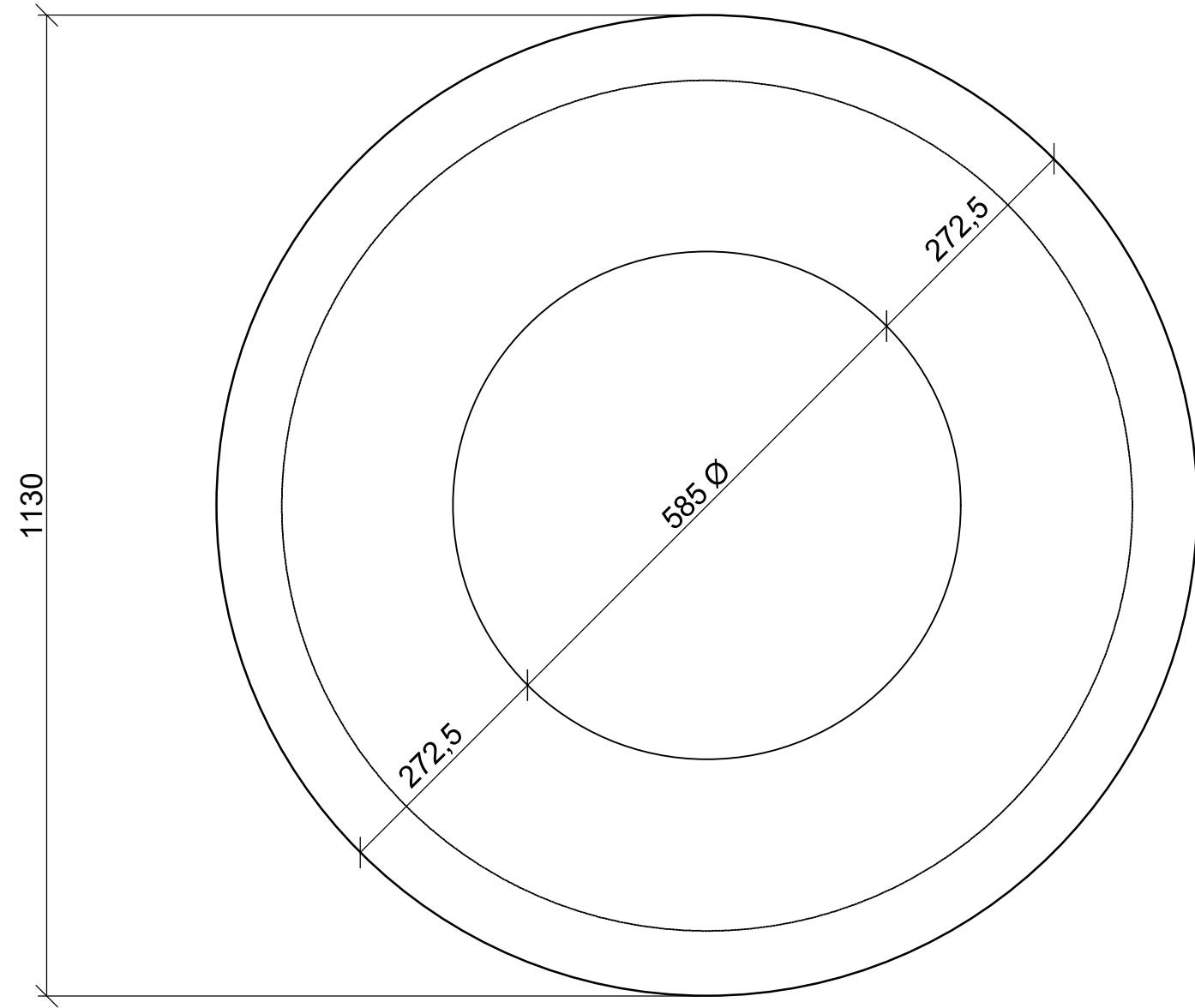
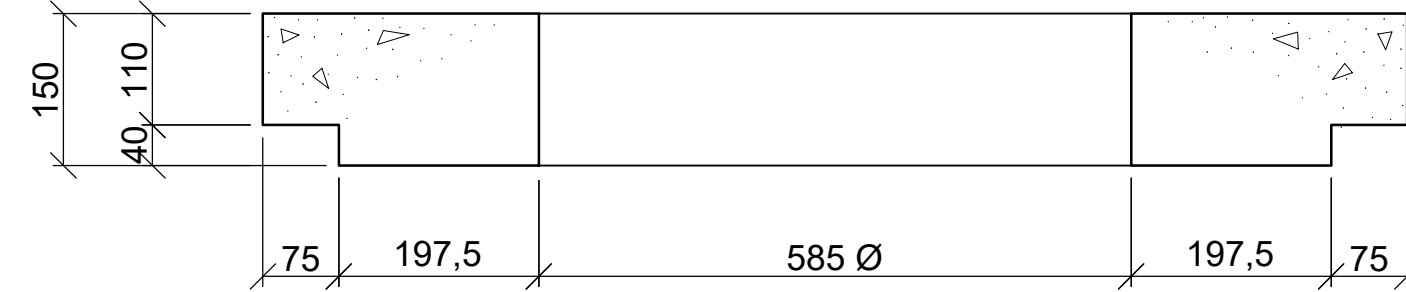


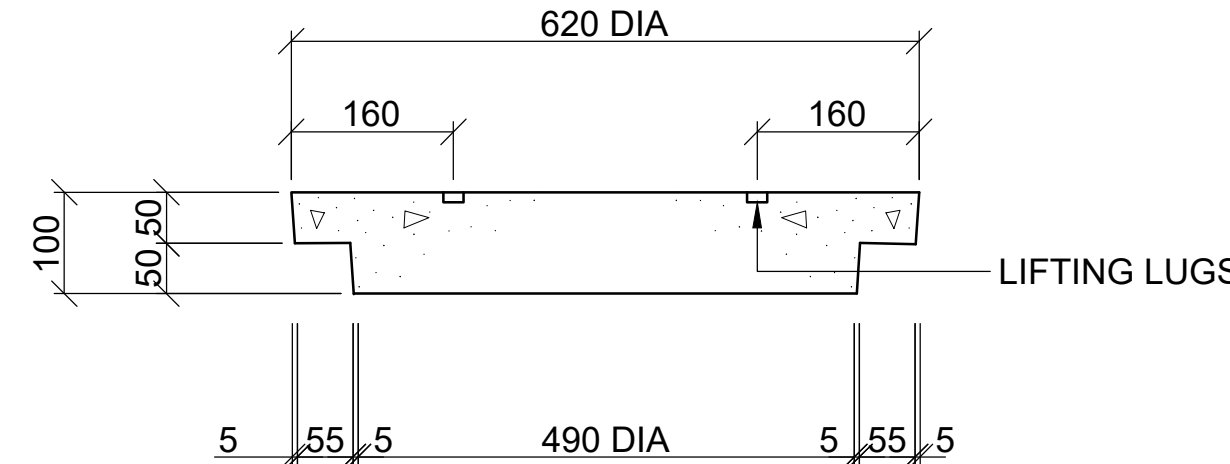
PLAN OF CIRCULAR LIGHT AND HEAVY DUTY
FRAME FOR 1000 NOM. DIA. MANHOLE



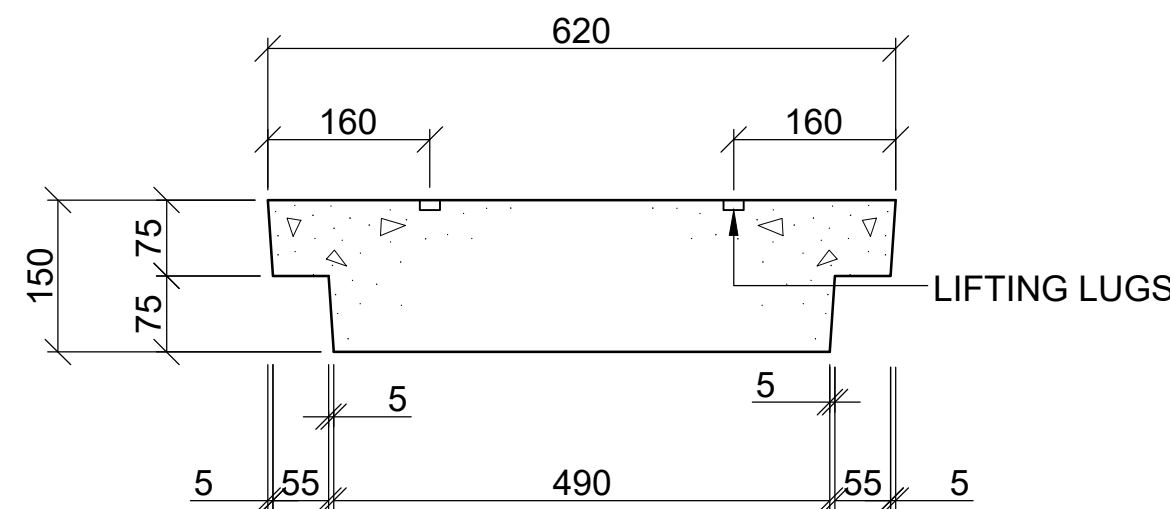
PLAN OF CIRCULAR COVER SLAB



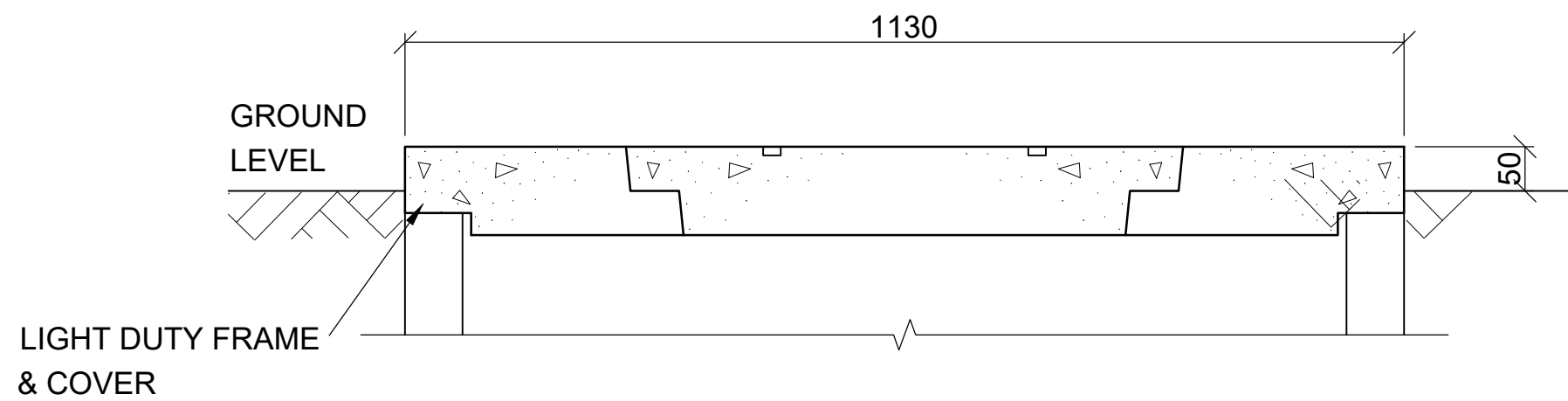
SECTION OF CIRCULAR COVER SLAB



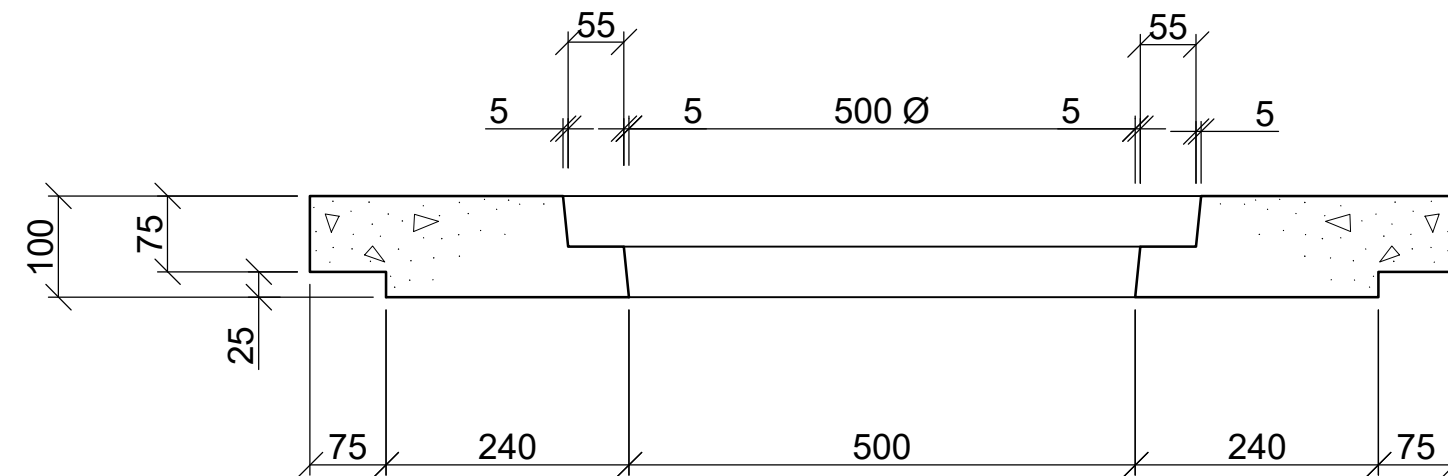
SECTION OF CIRCULAR LIGHT DUTY MH COVER



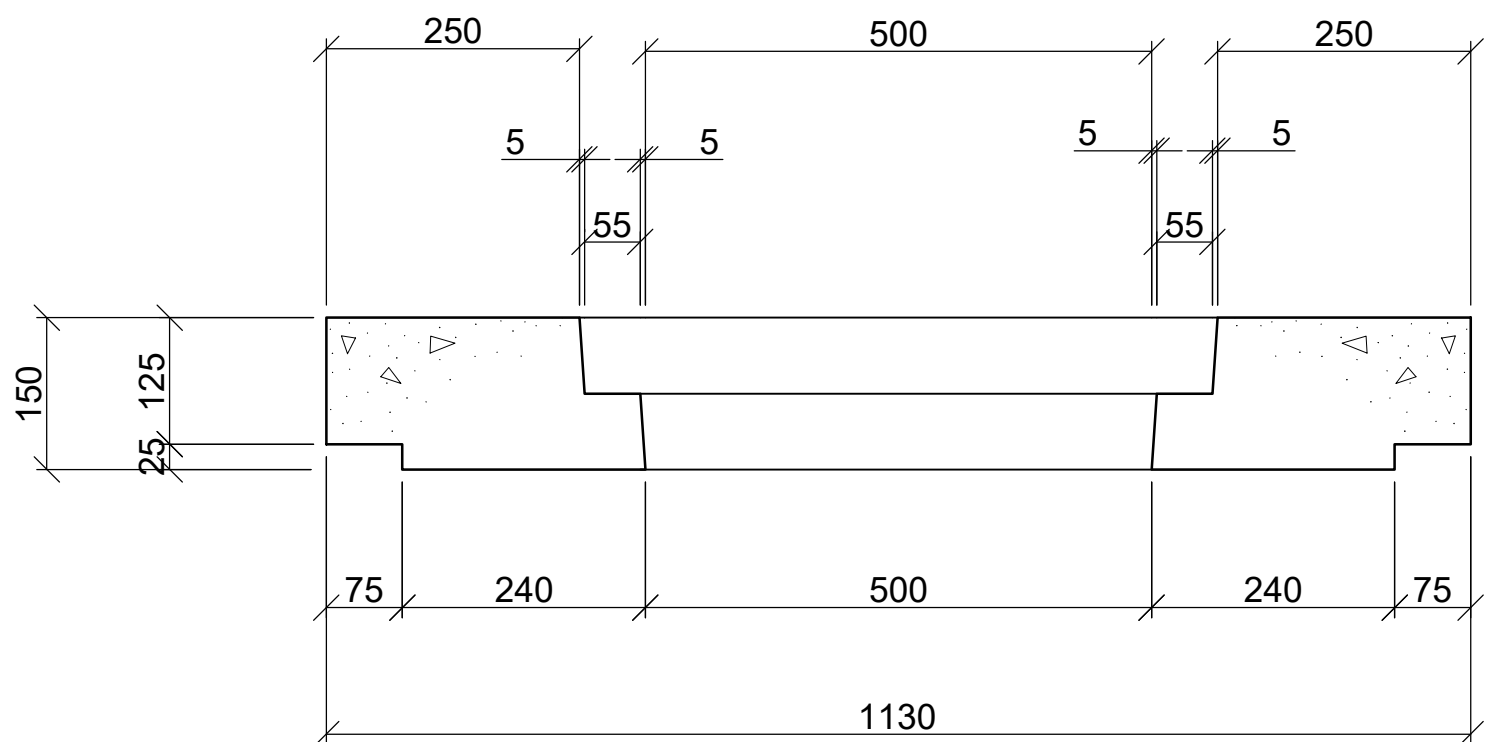
SECTION OF CIRCULAR HEAVY DUTY MH COVER



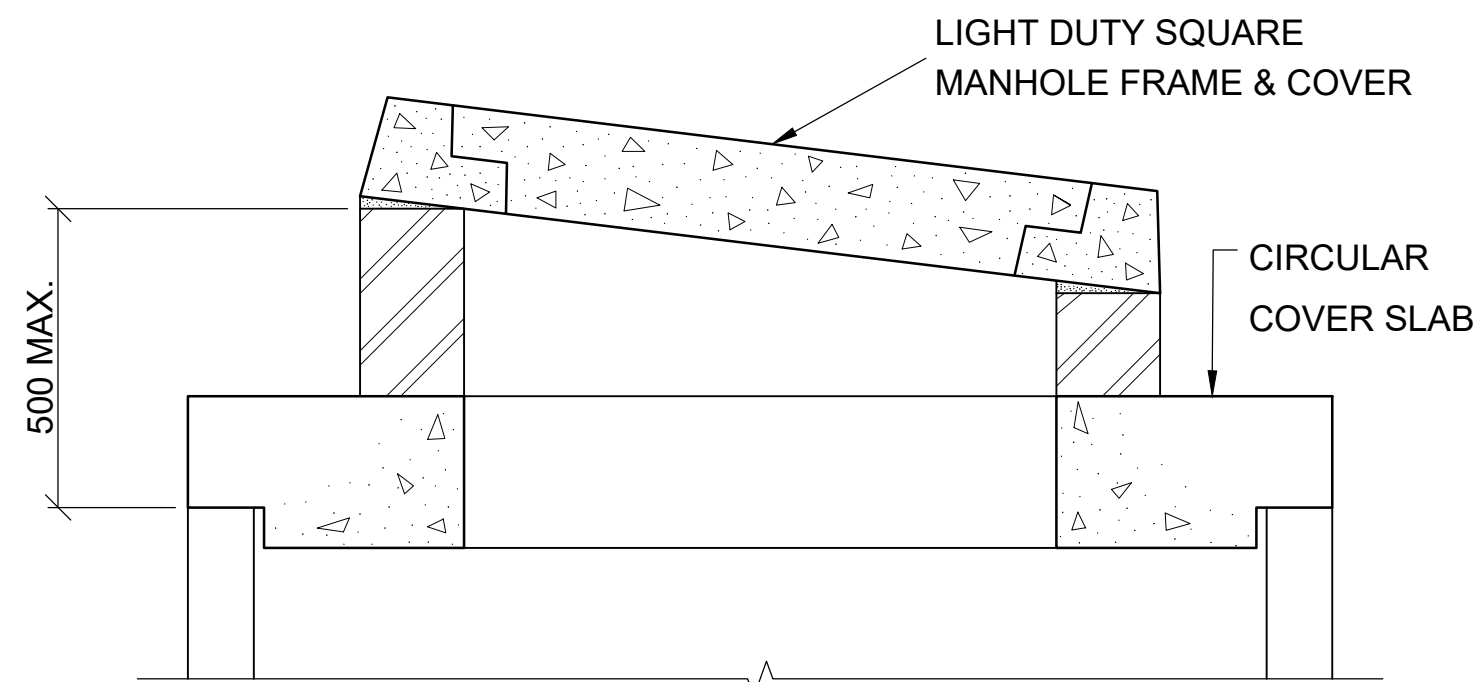
SECTION OF CIRCULAR LIGHT DUTY
MANHOLE COVER AND FRAME



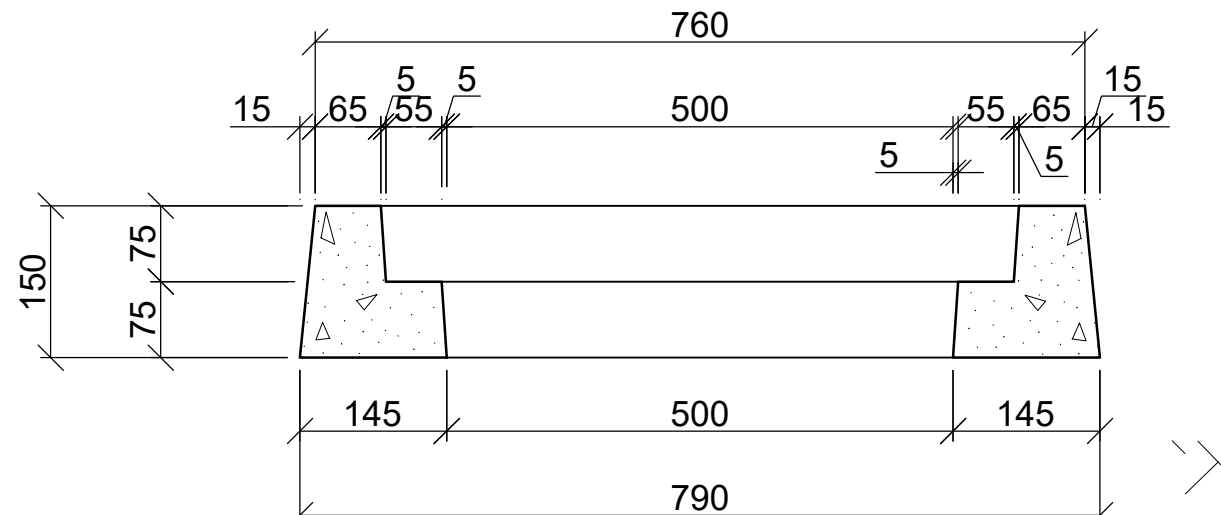
SECTION OF CIRCULAR LIGHT DUTY MH FRAME



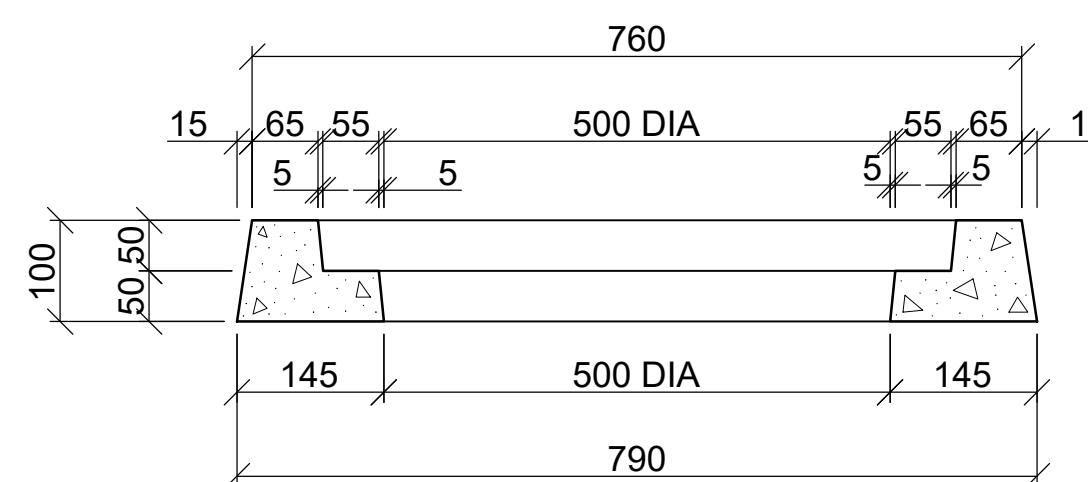
SECTION OF CIRCULAR HEAVY DUTY M.H. FRAME



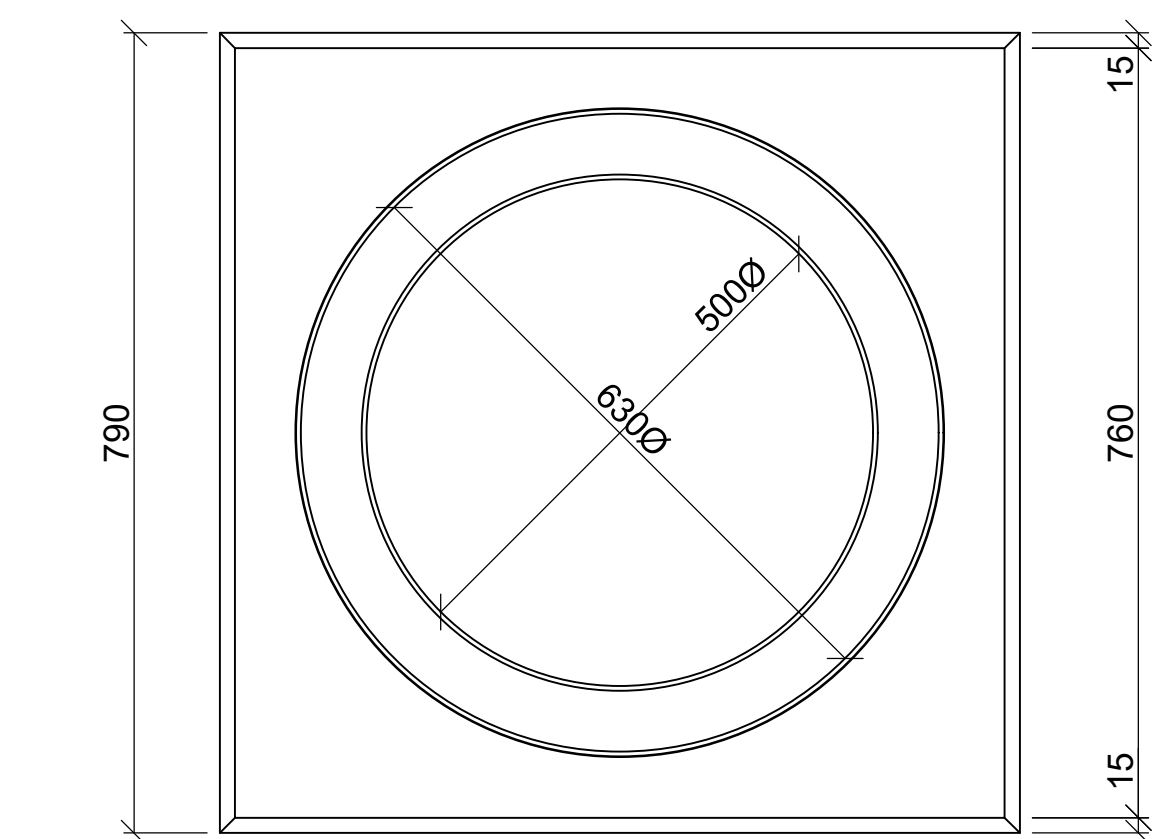
SECTION OF LIGHT DUTY SQUARE
MANHOLE FRAME AND COVER



SECTION OF HEAVY DUTY
SQUARE MANHOLE FRAME



SECTION OF LIGHT DUTY
SQUARE MANHOLE FRAME



PLAN

NOTES:

A. GENERAL

1. ALL PRECAST CONCRETE MANHOLE COMPONENTS TO COMPLY WITH THE REQUIREMENTS OF S.A.B.S.1294 (WHERE APPLICABLE)
2. LENGTHS OF INDIVIDUAL WALL UNITS ARE TO VARY IN MULTIPLES OF 250mm.
3. HEAVY DUTY CAST IRON COVERS AND FRAMES ARE TO BE USED ON MANHOLES UNDER VEHICULAR TRAFFIC.

B. SEWER MANHOLE:-

4. RENDERING FOR MANHOLE BENCHING SHALL CONSIST OF 1 PART H.A.C. TO 2 PARTS SAND THOROUGHLY MIXED AND APPLIED TO CONCRETE SURFACES WHILE THE LATTER ARE STILL GREEN. RENDERING SHALL BE AT LEAST 20mm THICK.
5. ALL PIPES BUILT INTO MANHOLES SHALL NOT EXCEED 1.0m IN LENGTH, AND THE ADJOINING PIPE SHALL NOT EXCEED 2.0m IN LENGTH.
6. EVERY U.P.V.C. PIPE BUILT INTO A MANHOLE SHALL HAVE CLEAN DRY SAND (TO S.A.B.S. 1083 TABLE 1.) GLUED TO ITS OUTSIDE AS RECOMMENDED BY PIPE MANUFACTURER USING SPECIAL PVC CEMENT (HENKEL S.A. PTY. LTD. TANGIT OR SIMILAR) TO ENSURE GOOD ADHESION TO BASE CONCRETE.
7. IN LOCATIONS DEFINED BY THE ENGINEER AS SUBJECT TO FLOODING, C.I. MANHOLE COVERS AND JOINTS SEALED WITH BOSTIK BUTYL TAPE OR SIMILAR, SHALL BE USED.
8. WHERE APPROACH GRADES INTO THE MANHOLE ARE 1 : 15 OR STEEPER AND ASSOCIATED WITH A CHANGE IN DIRECTION IN THE MANHOLE OF 30° OR MORE, THE BENCHING IS TO BE BROUGHT UP TWO PIPE DIAMETERS ABOVE THE PIPE INVERT (TYPE B BENCHING SEWERS)
9. DIMENSION D VARIES WITH THE DIAMETER OF THE SEWER PIPES AND SHALL BE TO A POINT 50MM ABOVE THE HIGHEST CROWN OF THE PIPES.

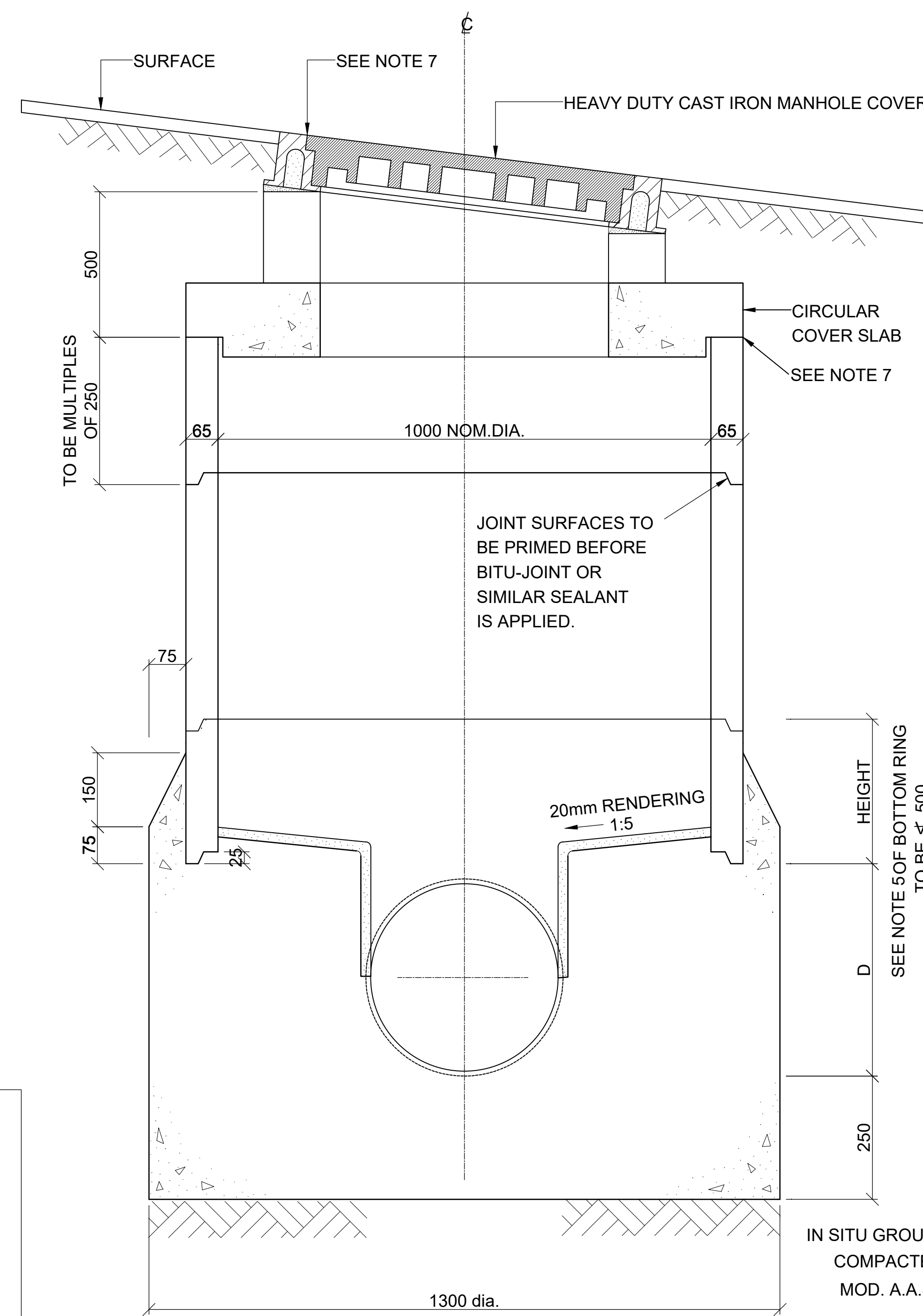
NOTES

GENERAL

1. ALL SETTING OUT TO BE UNDERTAKEN BY A REGISTERED PROFESSIONAL LAND SURVEYOR.
2. PROVE ALL SERVICES PRIOR TO CONSTRUCTION.
3. ALL WORK AREAS TO BE REINSTATED (PREMIX, CONCRETE, ETC.)
4. MUNICIPALITY TO EXECUTE ALL CONNECTIONS INTO MUNICIPAL LINES.
5. ALL LEVELS AND DIMENSIONS TO BE VERIFIED ON SITE.
6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE STRUCTURAL ENGINEERING DRAWINGS.
7. ALL WORK IS TO BE EXECUTED IN ACCORDANCE WITH SANS 1200.

SEWER

1. ALL SEWER PIPES ARE 160 / 200 NOMINAL DIAMETER CLASS 34 HEAVY DUTY UPVC PIPES.
2. ALL SEWER PIPES TO BE LAID ON CLASS B BEDDING.
3. ALL SEWER PIPES TO COMPLY WITH SANS 1601 STANDARDS.
4. CONCRETE ENCASED WITH 150mm 30MPA CONCRETE ALL ROUND TO:
 - SEWER PIPES IN PARKING AREAS/ROAD CROSSING TO BE
 - WHERE COVER OVER PIPES IS LESS THAN 500mm ON ALL LINES



SECTION OF 1000 DIA. MANHOLE

FOR TENDER

REVISION SCHEDULE			
NO.	DATE	DESCRIPTION	REV. BY
T1	07-10-2024	FOR TENDER	KG

DEPARTMENT OF HEALTH

INFRASTRUCTURE DEVELOPMENT

CHIEF ENGINEER : MR E. CHIRO : CIVIL / STRUCTURAL

SIGNATURE DATE

PROJECT MANAGER : MR T. DLAMINI

SIGNATURE DATE

CLIENT DEPARTMENT SIGNATURES:

FACILITY STAMP:

FACILITY MANAGER:

INFRASTRUCTURE MANAGER:

GENERAL MANAGER:

CHECKED BY CONSULTANT: NAME:

SIGNATURE DATE

CONSULTANT:



SUITE GR01A GROUND FLOOR
BUSINESS PARTNERS CENTRE
23 JAN HOFMEYR ROAD
WESTVILLE
3630
TEL: +27 31 309 5831 . FAX: +27 31 309 2929
email: admin@mapafrica.co.za . www.mapafrica.co.za



MIDLANDS REGION

PROJECT:
WIMS 066058: DRIEFONTEIN CLINIC -
UPGRADE SEWER TREATMENT PLANT

DRAWING DESCRIPTION:

SEWER RING MANHOLES
AND DETAILS

SCALE: 1:200 DATE: 07-10-2024 DRAWN BY: KG CHECKED BY: PN

CONSULTANT DRAWING NUMBER: 484/903 REVISION: T1

DOPW DRAWING NUMBER:

WIMS NO/066058/CIV/903

STAMPED BY PLANS APPROVAL COMMITTEE: