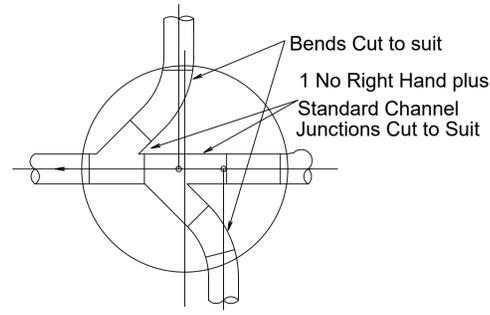
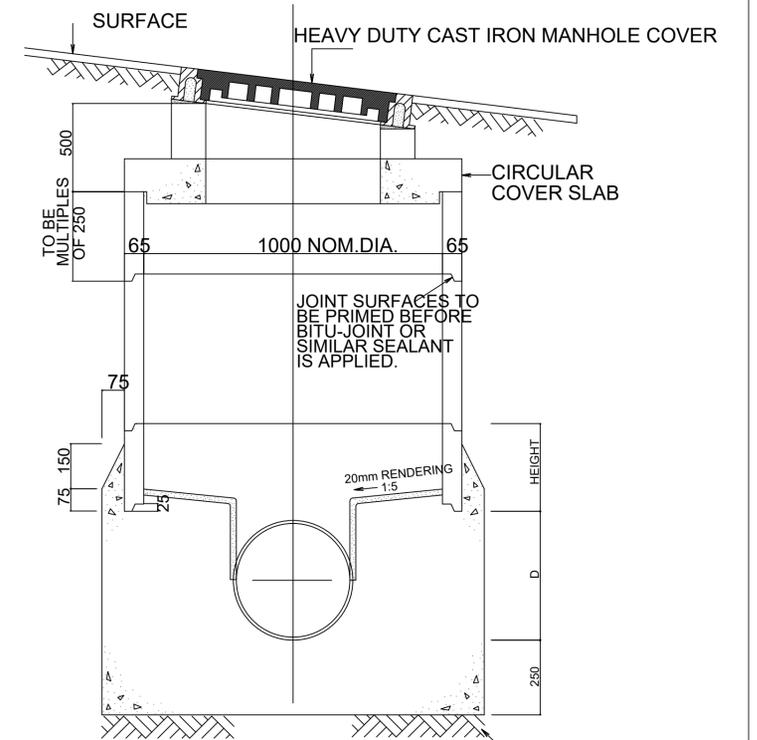


**600 x 800 SQUARE BRICK SEWER MANHOLE**

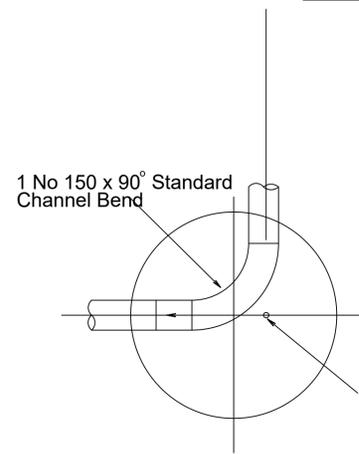
SCALE 1:25



**DOUBLE JUNCTION**

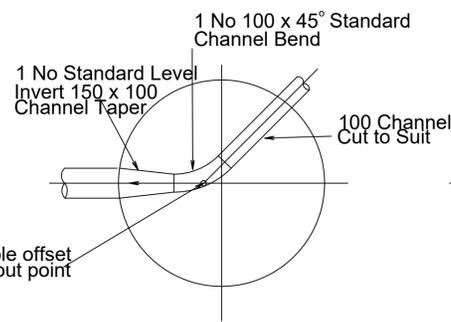


**SECTION OF 1000 DIA. MANHOLE**



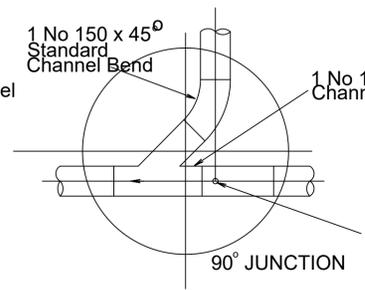
(45° & 22.5° Bends are similar)

**BENDS**



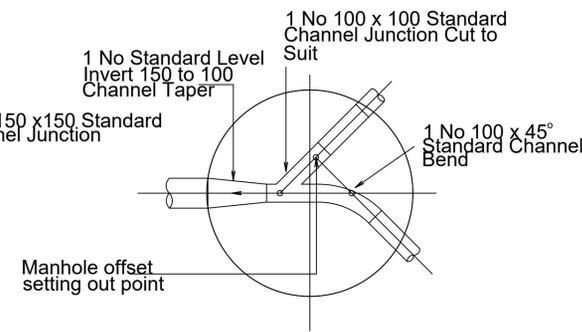
(90° & 22.5° Bends are similar)

**TERMINAL BENDS**



(60° & 45° Junctions are similar)

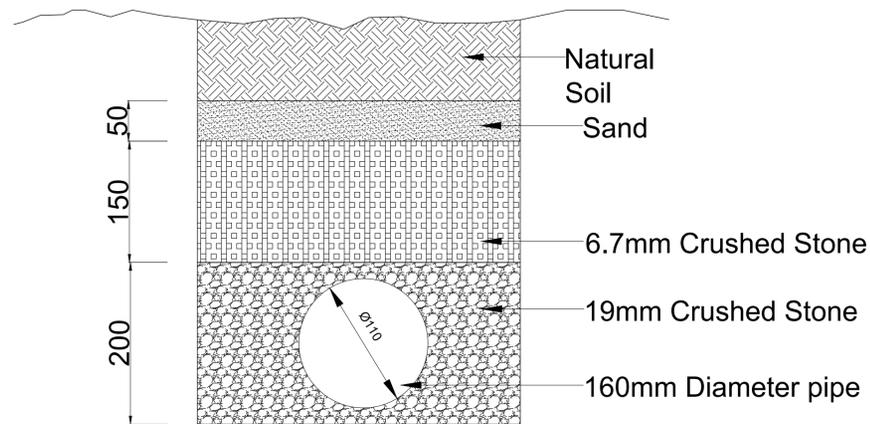
**SINGLE JUNCTION**



**TERMINAL JUNCTION**

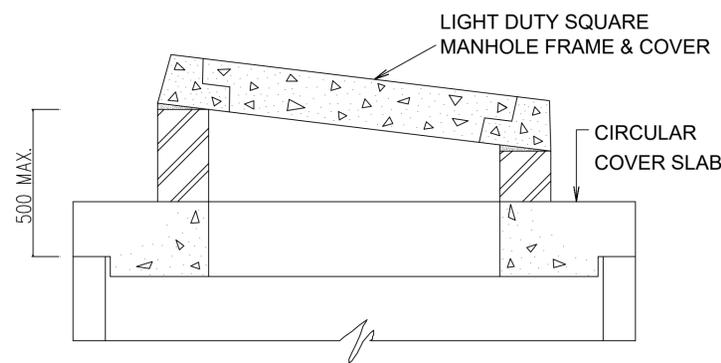
**STANDARD CHANNELLING IN PRECAST CONCRETE MANHOLES**

NOT TO SCALE



**PIPE BEDDING DETAIL**

SCALE 1:10



**SECTION OF LIGHT DUTY SQUARE MANHOLE FRAME AND COVER**

**NOTES:**

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. 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.
4. ALL PIPES BUILT INTO MANHOLES SHALL NOT EXCEED 1.0 m IN LENGTH AND THE ADJOINING PIPE SHALL NOT EXCEED 2.0m IN LENGTH.
5. 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.
6. 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.

|              |       |   |                                   |  |
|--------------|-------|---|-----------------------------------|--|
| DESIGNED BY: | M.M.S | <b>INFORMATION</b><br>Full Signatures<br><br>For Client<br><br>For Consulting Engineer<br><br>Consultant's Drawing No.: | APPROVED                          | NO. 0<br>REVISION DETAILS<br>ISSUED FOR TENDER PURPOSES<br><br>REV. NO. 0<br>DATE APR. 2023<br><br>REVISED BY<br><br>APPRVD BY |
| DRAWN BY:    | TM    |   | For Client<br>20 / /              |  |
| CHECKED BY:  | M.M.S |   | For Consulting Engineer<br>20 / / |  |
| ISSUED BY:   | M.M.S |   | For Consulting Engineer<br>20 / / |  |



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|   |                        |                               |
|---|------------------------|-------------------------------|
| CONSULTING ENGINEERS  | BID NUMBER: COM44/2023 | SHEET 2 OF 2                  |
| UPGRADING OF UMJINDI SOLID WASTE DISPOSAL SITE & ANCILLARY SERVICES IN UMJINDI, BARBERTON | SEWER TYPICAL DETAILS  | SCALE: AS SHOWN               |
|   |                        | DRAWING NO: COM44/2023/SEW002 |
|   |                        | REVISION 00                   |