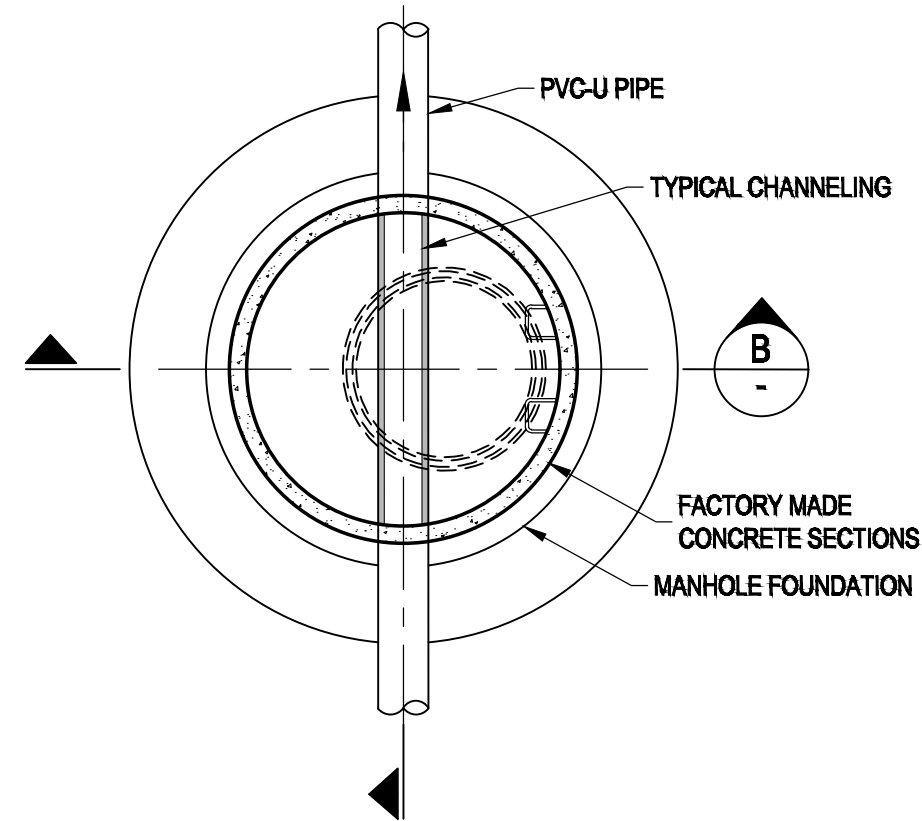
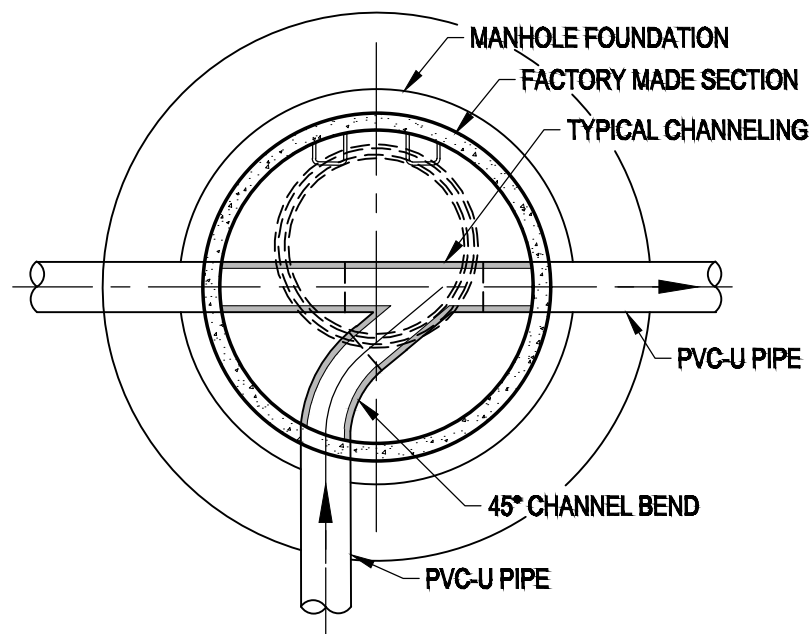


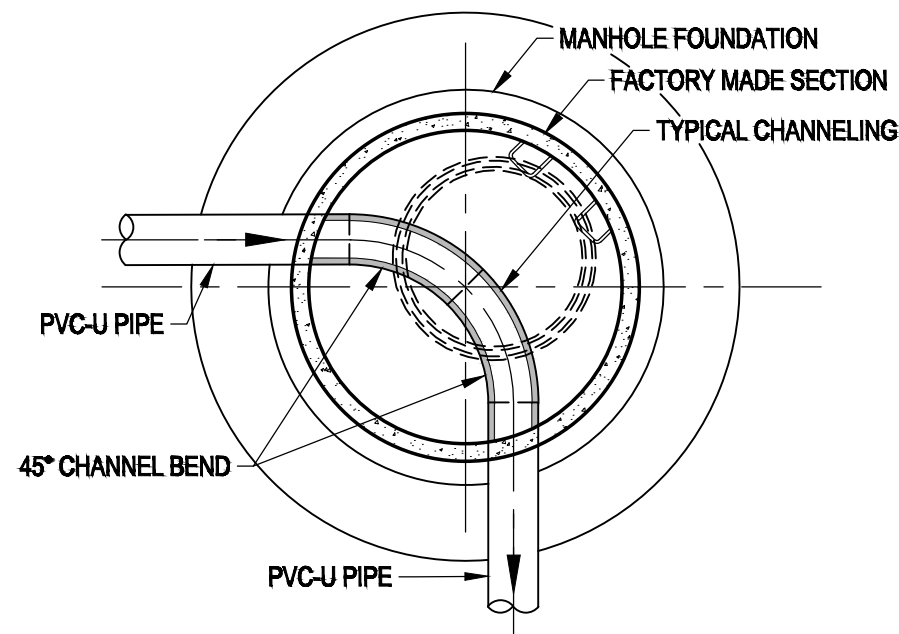
DRAWING STATUS:
DETAILED DESIGN



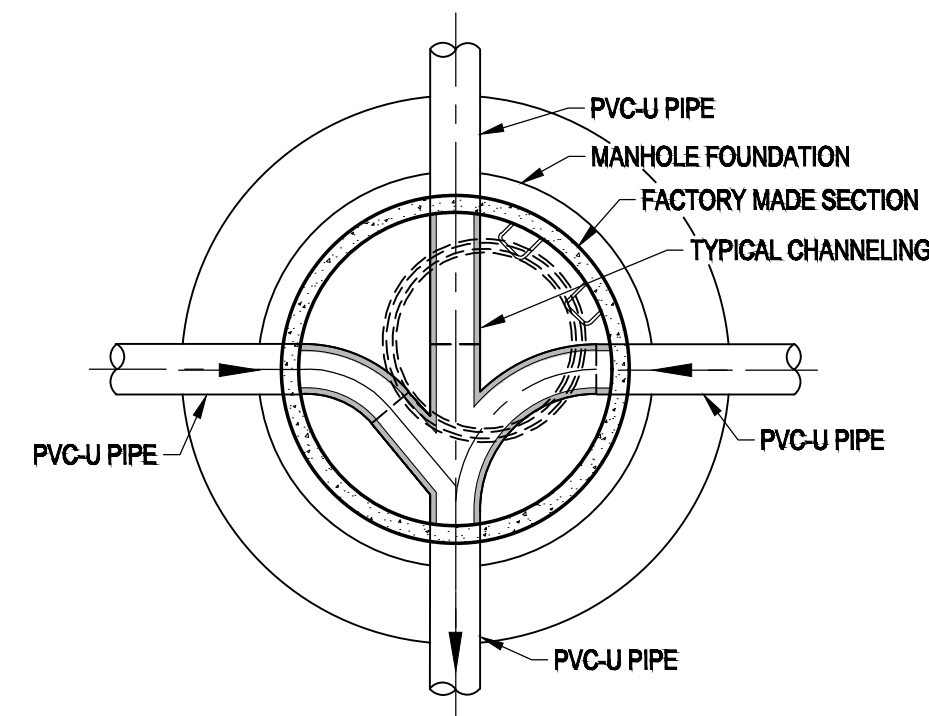
PLAN
SCALE 1:25
TYPICAL EXAMPLE OF THROUGH
CONNECTION IN MANHOLE



PLAN
SCALE 1:25
TYPICAL EXAMPLE OF 90° CONNECTION IN MANHOLE

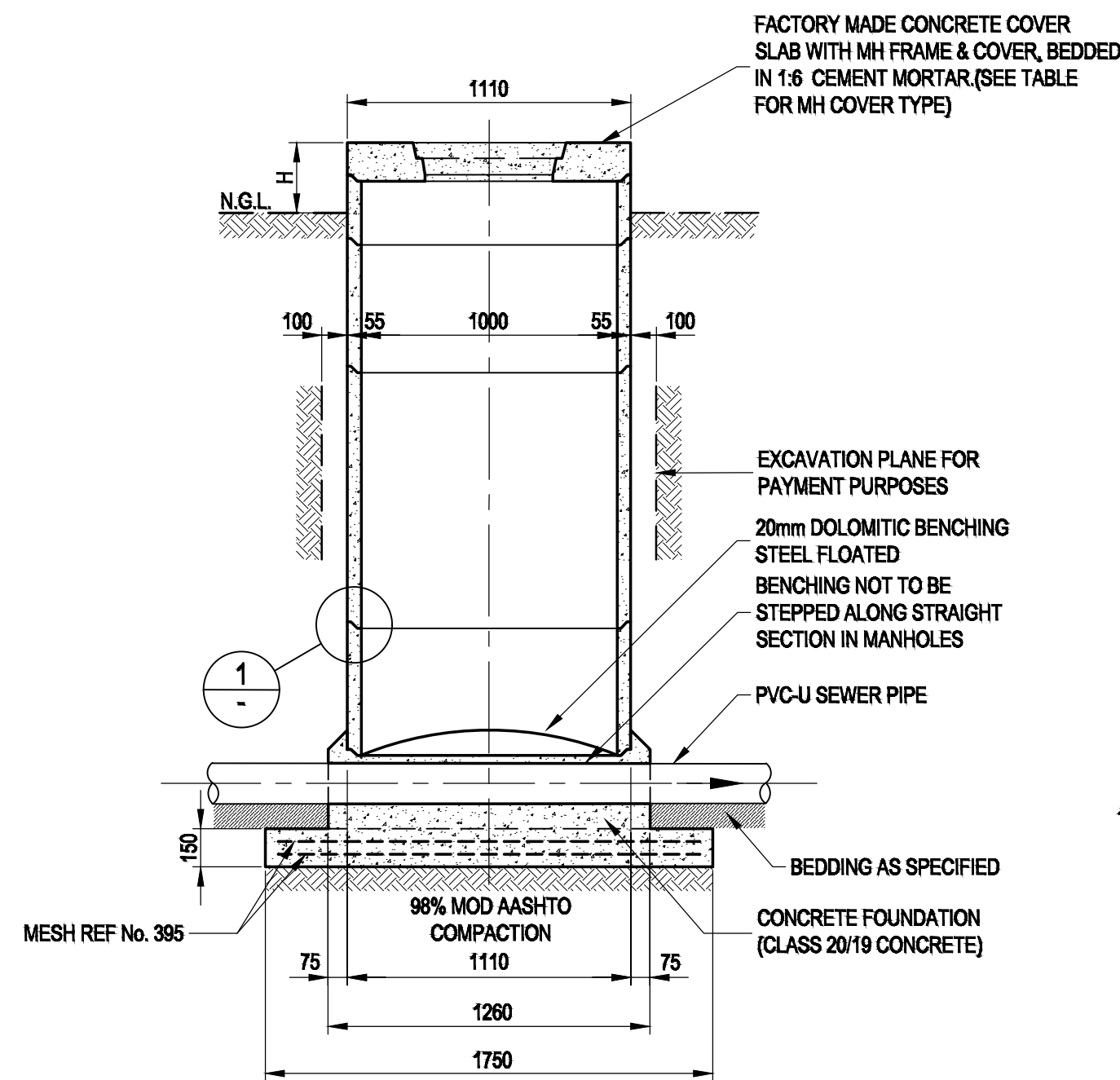


PLAN
SCALE 1:25
TYPICAL EXAMPLE OF 90° BEND IN MANHOLE

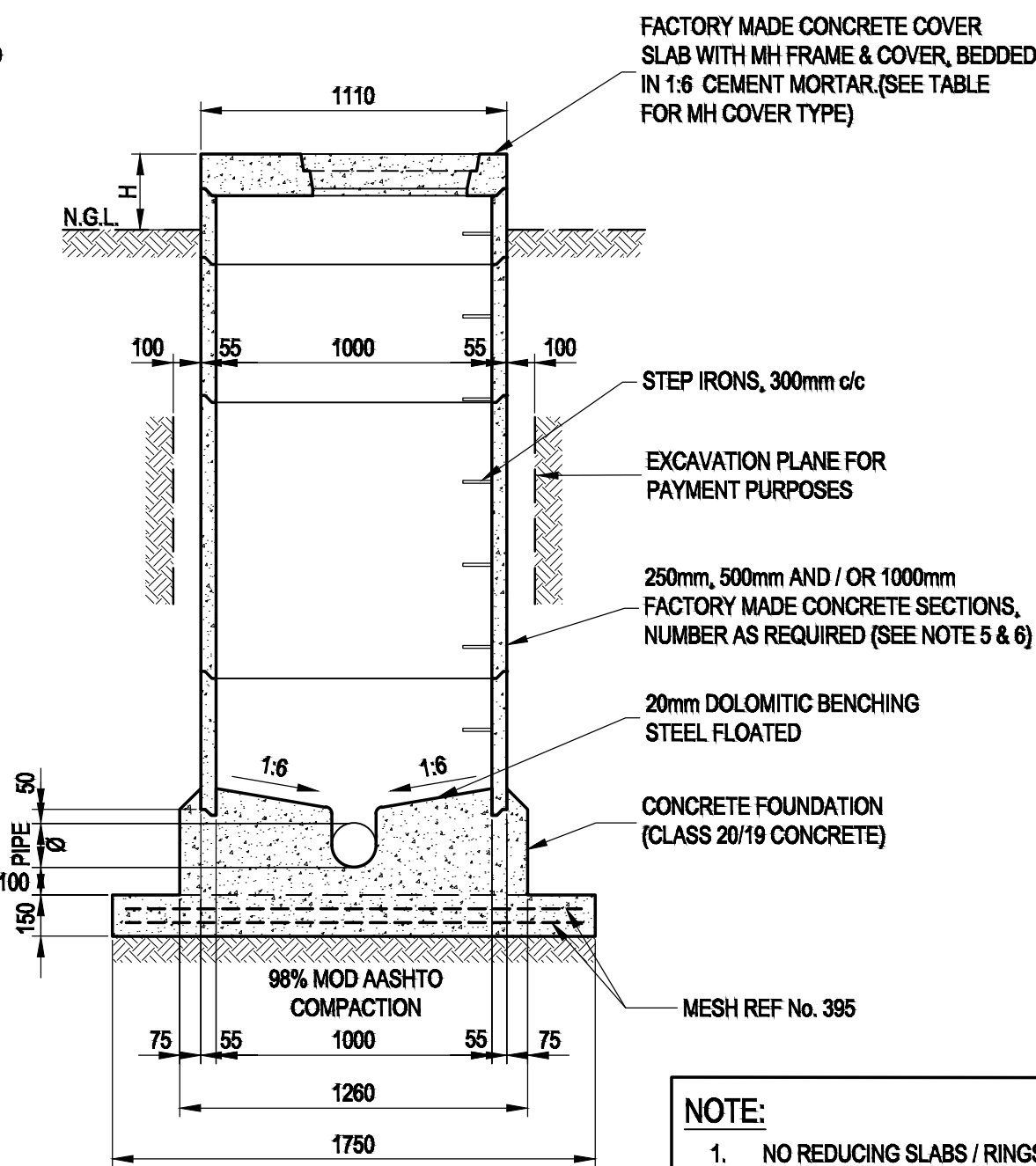


PLAN
SCALE 1:25
TYPICAL EXAMPLE OF SIDE
CONNECTIONS IN MANHOLE

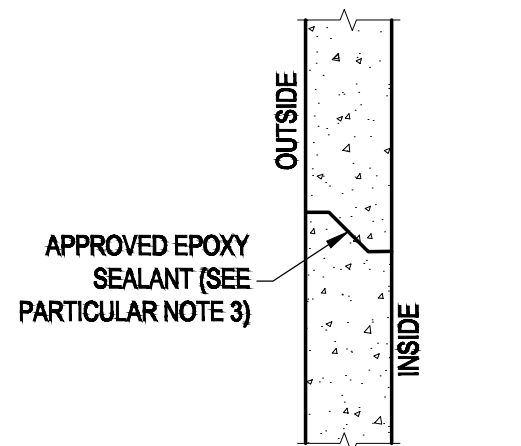
TYPICAL MANHOLE LAYOUTS SHOWING POSITIONS OF MANHOLE FRAME, STEPS & CHANNELING



SECTION A
SCALE 1:25

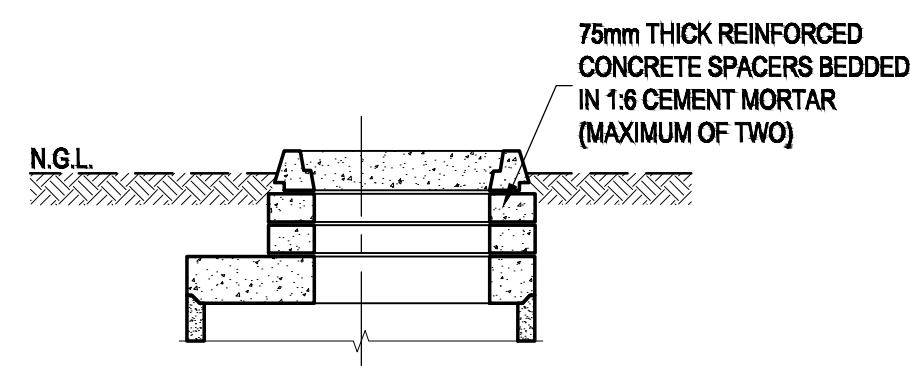
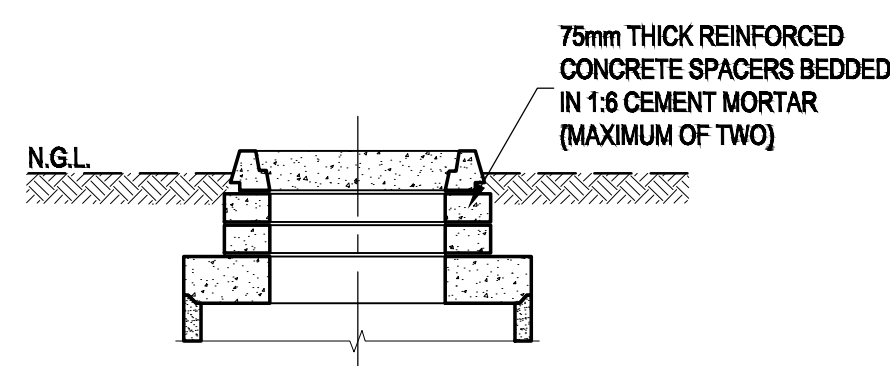


SECTION B
SCALE 1:25

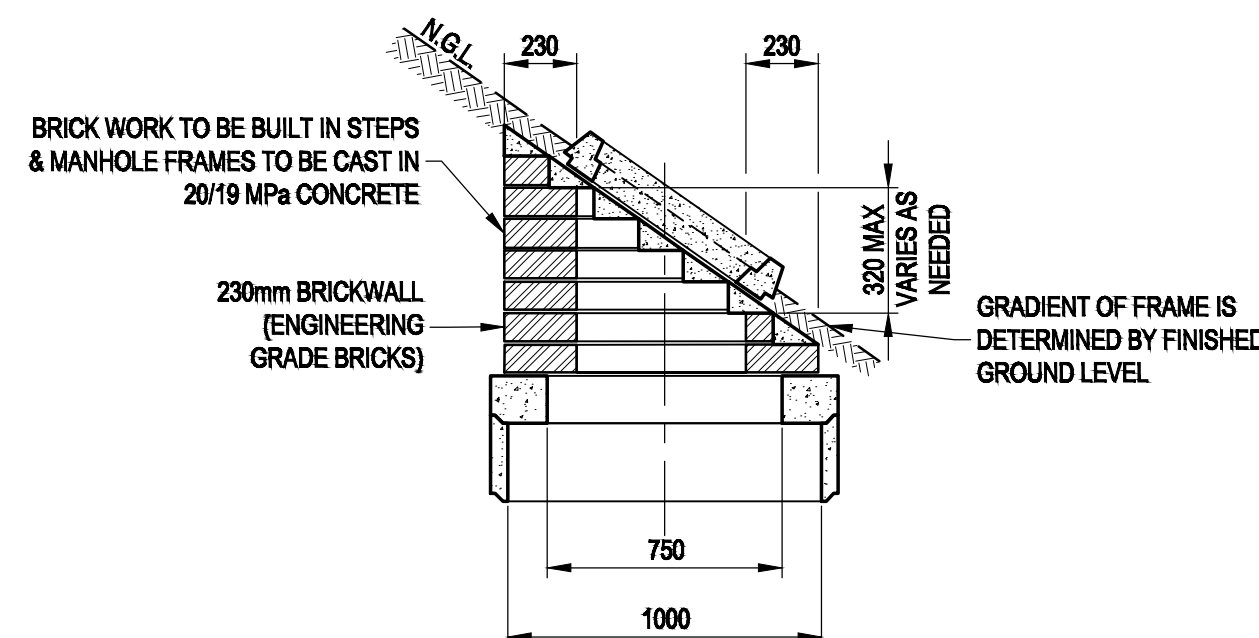


DETAIL
SCALE 1:5

NOTE:
1. NO REDUCING SLABS / RINGS ALLOWED



ALTERNATIVE LAYOUT WITH SPACERS



TYPICAL SECTION
SCALE 1:25
BUILT IN MANHOLE FRAME AT FINISHED SLOPED SIDEWALKS
(WITH WRITTEN PERMISSION FROM THE ENGINEER ONLY)

| MANHOLE COVERS AND FRAMES SANS 50124 (SABS EN 124) | |
|---|--|
| POSITION OF MANHOLE | FRAME AND COVER TYPE |
| CARRIAGEWAY | 560mm Ø CLASS D400 POLYESTER RESIN |
| STREET RESERVE | 560mm Ø CLASS B125 POLYESTER RESIN OR TYPE 4 CONCRETE REPLACEMENT |
| ERVEN | 560mm Ø CLASS B125 POLYESTER RESIN OR TYPE 4 CONCRETE REPLACEMENT |
| GENERAL | ONLY 560mm Ø, CLASS D400 POLYESTER RESIN MAY BE USED FOR SEWERS 300mm Ø AND LARGER |
| NOTE: CAST IRON COVERS AND FRAMES ARE USED ONLY WITH WRITTEN INSTRUCTIONS FROM THE ENGINEER | |

| MANHOLE CHAMBER SIZES | |
|---|--|
| NOMINAL Ø (mm) | USAGE |
| 1000 | 150 ND PIPES WITH STRAIGHT THROUGH MANHOLES UP TO 1.25m DEEP |
| 1250 | BENDS IN MANHOLES, LARGER PIPES & MANHOLES BETWEEN 1.25m & 3.0m DEEP |
| 1500 | LARGER PIPES & MANHOLES DEEPER THAN 3.0m |
| NOTE: MANHOLE CHAMBER SIZES TO BE APPROVED BY THE CoE WATER AND SANITATION DIVISION | |

| REV | DRAWINGS TITLE | CHK | APP | DESCRIPTION | DATE | CHK | APP |
|-----|--------------------|-----|-----|-------------|------|-----|-----|
| | REFERENCE DRAWINGS | | | REVISIONS | | | |

| | |
|-------------------------------|--|
| PROFESSIONAL SERVICE PROVIDER | |
| | P.O. Box 15439, Feyenoord Park, 0787 Tel: 015 291 3305 Fax: 086 218 8829 email: admin@aesconsulting.co.za |

| DESIGNED | NAME | PR. NUMBER | SIGNATURE | DATE |
|----------------|---------------------|------------|-----------|------------|
| DRAWN | GEORGE T KALENGA | | | 25-05-2021 |
| CHECKED | GEORGE T KALENGA | | | 29-05-2021 |
| PROJ. ENGINEER | CUTHBERT NGAIRONGWE | | | 29-05-2021 |
| PROJ. MANAGER | | | | |
| APPROVED | | | | |

| CLIENT APPROVAL | | | |
|------------------|---------|-----------|------|
| TITLE | INITIAL | SIGNATURE | DATE |
| GENERAL MANAGER | | | |
| PROJECT MANAGER | | | |
| PROJECT ENGINEER | | | |

| | |
|--------|---|
| CLIENT | |
| | CoGHSTA 20 Rabe Street Pretoria 0699 Tel: 015 294 2203 Fax: 015 295 1931 |

| | |
|---------------------------------------|------------------|
| PROJECT / DRAWING TITLE | |
| TALANA COMMUNITY RESIDENTIAL UNITS | |
| MANHOLE DETAILS | |
| SCALE: NOT TO SCALE | SHT. No. 1 of 1 |
| CONTRACT No. - | PROJECT No. - |
| DRAWING No. AES-COGHSTA-TCRU-C408 | |