

- REINSTATE ABOVE COVER SLAB AS FOLLOWS:
- (i) CARRIAGEWAYS - IN MATERIALS SPECIFIED IN APPENDIX 7/1.
  - (ii) FOOTWAYS AND OTHER PAVED AREAS - TO FORMATION LEVEL IN SUBBASE TO CLAUSE 803.
  - (iii) GRASSED AREAS - TO UNDERSIDE OF TOPSOIL IN COMPACTED GENERAL FILL MATERIAL.

COVER AND FRAME SHALL HAVE A CLEAR OPENING OF 675 x 675 AND CONFORM TO THE REQUIREMENTS OF APPENDIX 5/1. THE FRAME SHALL BE BEDDED ON A MINIMUM 15 THICKNESS OF POLYESTER RESIN MORTAR.

WHERE MANHOLE IS LOCATED IN THE VERGE, A MORTAR HAUNCHING IS TO BE PROVIDED TO THE COVER AND FRAME.

CONSTRUCT MIN 2 COURSES, MAX 4 COURSES OF 225 HIGH DENSITY TYPE B SOLID CLAY ENGINEERING BRICKS TO CLAUSE 2406 IN ENGLISH BOND LAID ON CLASS (i) MORTAR TO CLAUSE 2404 (SEE NOTES 5 TO 7).

HEAVY DUTY REINFORCED COVER SLAB BEDDED ON 10 CLASS (i) MORTAR TO CLAUSE 2404.

PRECAST CONCRETE CHAMBER RINGS TO BE BEDDED ON CLASS (i) MORTAR TO CLAUSE 2404 (SEE NOTE 7).

ST4 (GEN 3) CONCRETE SURROUND MIN 150 THICK (SEE NOTE 8)

675 x 675 OPENING IN COVER SLAB.

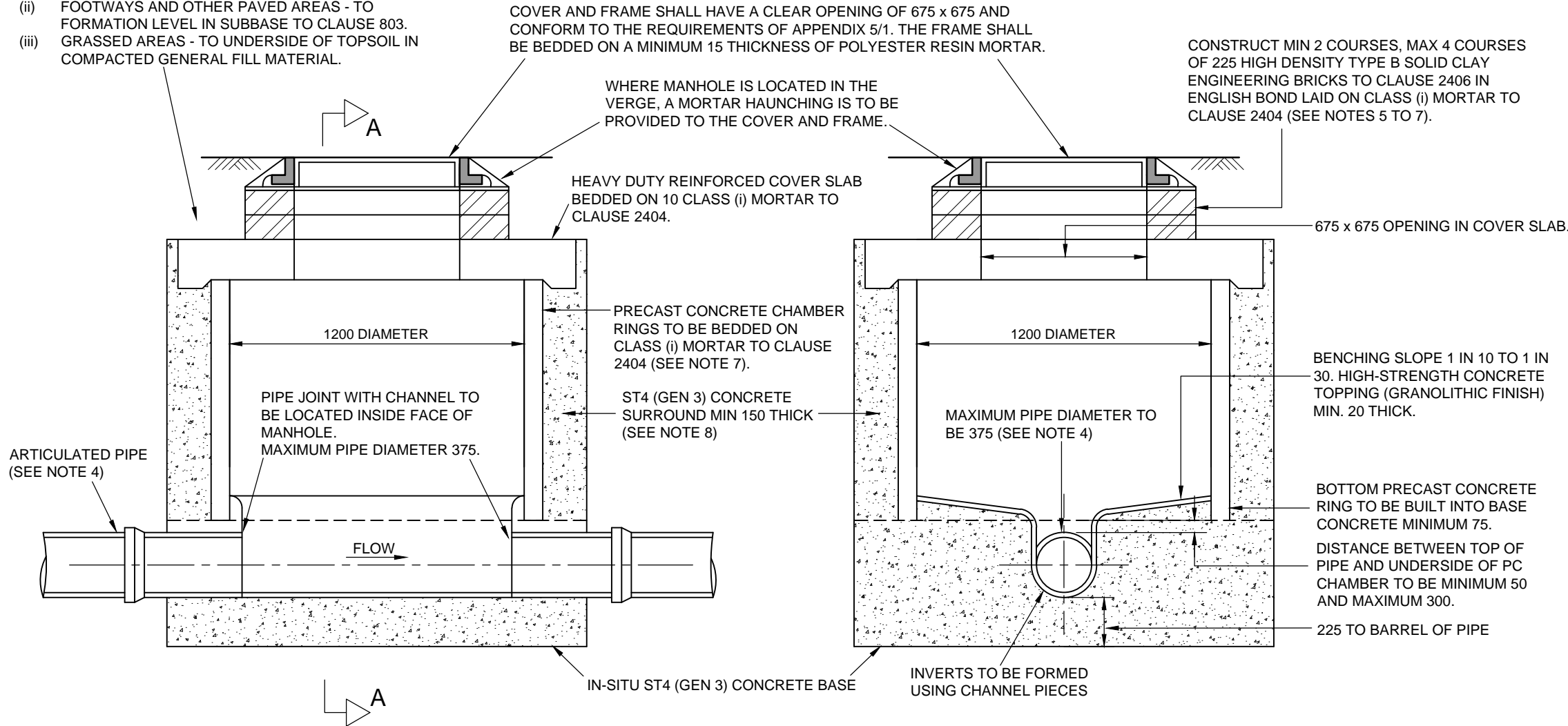
BENCHING SLOPE 1 IN 10 TO 1 IN 30. HIGH-STRENGTH CONCRETE TOPPING (GRANOLITHIC FINISH) MIN. 20 THICK.

BOTTOM PRECAST CONCRETE RING TO BE BUILT INTO BASE CONCRETE MINIMUM 75.

DISTANCE BETWEEN TOP OF PIPE AND UNDERSIDE OF PC CHAMBER TO BE MINIMUM 50 AND MAXIMUM 300.

225 TO BARREL OF PIPE

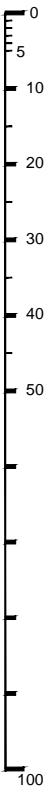
INVERTS TO BE FORMED USING CHANNEL PIECES



SECTION A-A

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. CHAMBER RINGS, COVER SLAB AND MANHOLE STEPS ALL TO BS 5911-3, BS EN 1917 AND BS EN 13101. WHERE SPECIFIED, MANHOLE STEPS (SEE NOTE 3) ARE TO BE FITTED AT THE FACTORY.
3. FOR MANHOLES TO BE ADOPTED BY OTHERS, THE REQUIREMENTS REGARDING THE PROVISION OF STEP IRONS ARE CONTAINED IN APPENDIX 5/1. OTHERWISE, STEP IRONS ARE NOT TO BE INSTALLED
4. THIS TYPE OF MANHOLE SHALL ONLY BE USED FOR PIPE DIAMETERS UP TO 375. ALL PIPES CONNECTING TO THE CHAMBER SHALL HAVE AN ARTICULATED SECTION (ROCKER PIPE) WITH A JOINT AS CLOSE AS POSSIBLE TO THE CHAMBER TO PERMIT SUBSEQUENT MOVEMENT. THE LENGTH OF ARTICULATED PIPES SHALL BE 600.
5. IF THE CHAMBER IS TO BE TRAFFICKED WITHIN 48 HOURS OF BRICKWORK CONSTRUCTION A RAPID HARDENING CEMENTITIOUS OR POLYESTER RESIN MORTAR SHALL BE USED.
6. PROPRIETARY PRECAST CONCRETE ADJUSTING UNITS MAYBE USED IN LIEU OF BRICKWORK. ONLY TWO-PIECE UNITS THAT COMPLY WITH BS EN 1917 AND BS 5911-3 SHALL BE USED.
7. ALL PROPRIETARY PRECAST CONCRETE ADJUSTING UNITS SHALL BE BEDDED ON MINIMUM 15 THICK POLYESTER RESIN MORTAR TO CLAUSE 2601.
8. THE LIFTING EYES IN PRECAST CONCRETE RINGS ARE TO BE POINTED WITH CLASS (i) MORTAR TO CLAUSE 2404.
9. ALL CEMENT USED IN INSITU CONCRETE SHALL BE CII(A OR B)-S OR CIII A OR B TO BS 8500-2, TABLE 1 AND ANNEX A.
10. IF THIS MANHOLE IS TO BE ADOPTED BY OTHERS, APPROVAL FOR ITS INSTALLATION MUST BE OBTAINED FROM THE RELEVANT AUTHORITY.
11. THE CONTRACTOR IS TO PROVIDE TEMPORARY WORKS DETAILS AND A METHOD STATEMENT FOR APPROVAL BY THE OVERSEEING ORGANISATION AT LEAST 2 WEEKS PRIOR TO CONSTRUCTION.



B	COPYRIGHT AMENDED AND NEW DIRECTORATE DETAILED.	09.02.2023	AM	KM	
A	SUBBASE TO CL 894R DELETED AND BRANDING UPDATED.	12.07.2022	CLT	KM	MC
REV	AMENDMENTS	DATE	CAD	CHKD	APPD

CONSULTANT




TIM LAWTON BEng CEng FICE FCIHT : ASSISTANT DIRECTOR OF UNIVERSAL SERVICES

SCHEME

## STANDARD DETAILS

DRAWING TITLE

### MANHOLE TYPE M5 (PRECAST CONCRETE, DEPTH EXCEEDING 1.0m BUT NOT 1.5m)

DESIGNER	CHECKED	SCALE @ A3
MC	JPR   JPR	N.T.S
CAD	APPROVED	DATE
MC	CDP   CDP	Jan 2020
DRAWING NUMBER	REV	
HCC11/D/065	B	

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