



IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING:

DECOMMISSIONING/DEMOLITION.
REFER TO DRAWING FOR EXTENT OF EXISTING SITE DRAINAGE TO BE ABANDONED/REMOVED

1. DO NOT SCALE FROM THIS DRAWING. ONLY FIGURED DIMENSIONS ARE TO BE USED.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
3. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
5. REFER TO DRAINAGE GENERAL ARRANGEMENT DRAWINGS FOR LAYOUT PIPE DIAMETERS & FALLS.
6. REFER TO THE MANHOLE SCHEDULES FOR CHAMBER SIZES AND DETAILS.
7. ROCKER PIPES TO BE INSTALLED AT CONNECTION POINTS TO STRUCTURES TO ALLOW FOR MOVEMENT CAUSED BY THERMAL EFFECTS.
8. ALL DRAINAGE IS DESIGNED TO ADAPTABLE STANDARDS WHERE POSSIBLE, AND BUILDING REGULATIONS PART H.
9. WHERE THERE IS A LOCAL CLIMATE THE CONTRACTOR SHOULD ADJUST THE DETAIL TO SUIT SITE SPECIFIC CONDITIONS WHERE APPROPRIATE. WHERE FURTHER DETAIL IS REQUIRED WHITBY WOOD SHOULD BE CONTACTED.
10. WORKMAN ARE TO BE CARVED OUT IN ACCORDANCE WITH THE BELOW GROUND DRAINAGE SPECIFICATION DOCUMENT.

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RHP ARCHITECTS

ITCHEN VALLEY COUNTRY PARK

PRELIMINARY

DRAINAGE DETAILS

SHEET 1

DATE	SCALES @ A1	DRAWN BY	CHECKED	APPROVED
13.04.2022	NTS	RS	RW	RW
DRAWING NUMBER				REVISION
P450815-WW-IV-00-DR-C-4001				P3

JOINT TO WITHIN CHAMBER WALL TO PERMIT SATISFACTORY JOINT AND SUBSEQUENT MOVEMENT

DOUBLE STEP RUNGS COMPLYING WITH CLAUSE E2.33

450mm MINIMUM FROM EDGE OF STEPPING (SEE CLAUSE B5.2.29)

SEE FIGURE B.13 AND CLAUSE E6.6.2 FOR ROCKER PIPE DETAILS

PIPE JOINT WITH CHANNEL TO BE LOCATED MINIMUM 100mm INSIDE FACE OF MANHOLE

MINIMUM WIDTH OF BENCHING TO BE 225mm

NOT TO SCALE

1220mm x 685mm MULTIPLE DUCTILE IRON COVER, COVER COMPLYING WITH CLAUSE E2.32

MORTAR BEDDING AND HAUNCHING TO COVER AND FRAME TO CLAUSE E6.7

BRICKWORK OR CONCRETE BLOCKS TO BE CORSEBOLLED (MAX 30mm PER COURSE) TO SUIT COVER

REFER TO MH SCHEDULE

MIN 20mm THICK HIGH STRENGTH CONCRETE TOPPING COMPLYING WITH CLAUSES E4.3 AND E6.5

NEATLY SHAPED AND FINISHED TO ALL BRANCH CONNECTIONS

PRECAST CONCRETE CHAMBER SECTIONS COMPLYING WITH CLAUSE E2.29 JOINED WITH MORTAR, ELASTOMERIC OR PLASTOMERIC SEALS

CHAMBER WALL TO BE MINIMUM 125mm

IN-SITU GEN3 CONCRETE COMPLYING WITH E4.1 AND BRE SPECIAL DIGEST 1

225mm TO BARREL OF PIPE

150mm MINIMUM

INVERTS TO BE FORMED USING CHANNEL PIECES

BENCHING SLOPE TO BE 1:10 TO 1:30

DOUBLE STEP RINGS
COMPLYING WITH CLAUSE E2.33

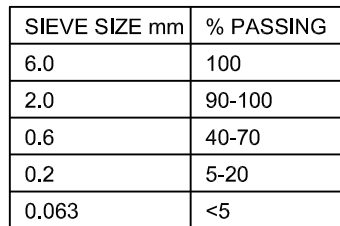
MINIMUM WIDTH OF BENCHING
TO BE 225mm

NOT TO SCALE

450mm MINIMUM FROM
EDGE OF STEPPING
(SEE CLAUSE B2.29)

SEE FIGURE B.13 AND CLAUSE
FOR ROCKER PIPE DETAILS

UNDERDRAINED SWALE DETAIL



SECTIONAL PLAN

Diagram illustrating a SECTIONAL PLAN of a manhole structure. The plan shows a circular manhole with a central vertical pipe and a horizontal pipe intersecting at a 90-degree angle. A diagonal pipe is also shown entering the manhole from the bottom left. Labels indicate:

- NO JUNCTION LESS THAN 90° FROM OUTGOING SEWER
- PREFORMED SWEEP CHANNELS
- ROCKER PIPE REQUIRED FOR RIGID PIPES
- NOT TO SCALE

RIGID PIPES BUILT INTO MANHOLE SHOULD HAVE A FLEXIBLE JOINT AS CLOSE AS FEASIBLE TO THE EXTERNAL FACE OF THE STRUCTURE AND THE LENGTH OF THE NEXT ROCKER PIPE SHOULD BE AS SHOWN

NOMINAL DIAMETER (mm)	MAXIMUM EFFECTIVE LENGTH (m)
150 - 600	0.6
601 - 750	1.00
OVER 750	1.25

ALL PIPES ENTERING THE BOTTOM OF THE MANHOLE TO HAVE SOFFITS LEVEL

FOR USE IN MANHOLE TYPES A TO D
NOTE: STEEPER GRADIENTS ARE PREFERRED TO THE USE OF BACKDROPS
SEWERAGE COMPANIES SHOW PREFERENCE TO RAMPED BACKDROPS.



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