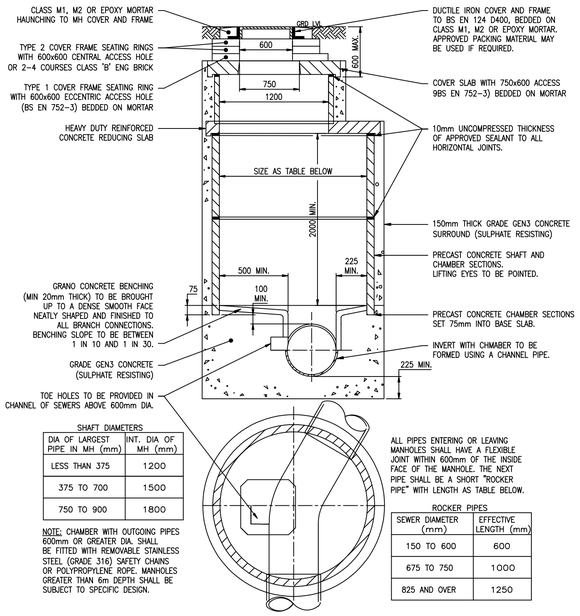


SHAFT DIAMETERS

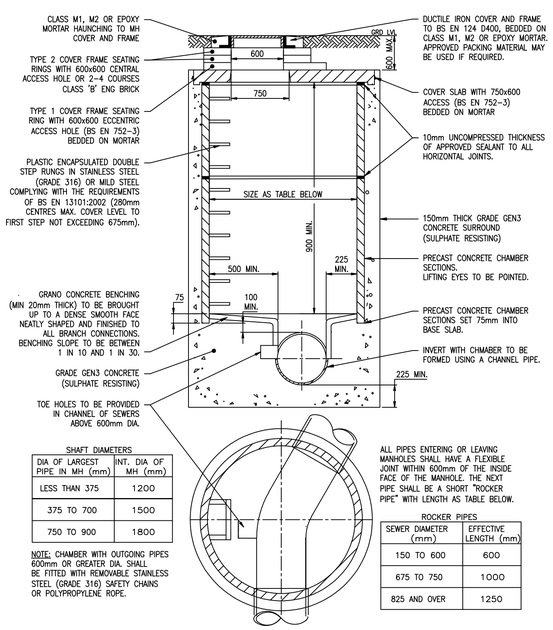
DIA OF LARGEST PIPE IN MH (mm)	INT. DIA OF MH (mm)
LESS THAN 375	1200
375 TO 700	1500
750 TO 900	1800

NOTE: CHAMBER WITH OUTGOING PIPES 600mm OR GREATER DIA. SHALL BE FITTED WITH REMOVABLE STAINLESS STEEL (GRADE 316) SAFETY CHAINS OR POLYPROPYLENE ROPE. MANHOLES GREATER THAN 6m DEPTH SHALL BE SUBJECT TO SPECIFIC DESIGN.

ROCKER PIPES

SEWER DIAMETER (mm)	EFFECTIVE LENGTH (mm)
150 TO 600	600
675 TO 750	1000
825 AND OVER	1250

MANHOLE TYPE A
(DEPTH TO SOFFIT 3m - 6m)



SHAFT DIAMETERS

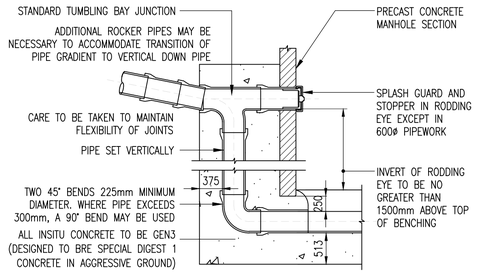
DIA OF LARGEST PIPE IN MH (mm)	INT. DIA OF MH (mm)
LESS THAN 375	1200
375 TO 700	1500
750 TO 900	1800

NOTE: CHAMBER WITH OUTGOING PIPES 600mm OR GREATER DIA. SHALL BE FITTED WITH REMOVABLE STAINLESS STEEL (GRADE 316) SAFETY CHAINS OR POLYPROPYLENE ROPE.

ROCKER PIPES

SEWER DIAMETER (mm)	EFFECTIVE LENGTH (mm)
150 TO 600	600
675 TO 750	1000
825 AND OVER	1250

MANHOLE TYPE B
(DEPTH TO SOFFIT 1.5m - 3m)



TYPICAL EXTERNAL VERTICAL BACKDROP DETAIL

INTERNAL DIMENSIONS OF CHAMBER NORMALLY 1240x675 (AS CLEAR OPENING IN FRAME) BUT CHAMBER WIDTH SHOULD BE INCREASED FOR PIPES LARGER THAN 225 DIA. (MAX. 525mm DIA.) TO GIVE A MIN. 225 BENCHING EACH SIDE, WITH THE BRICKWORK CORBELLED DOWN TO 675.

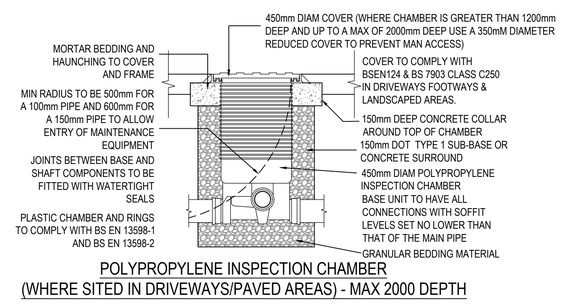
ALL PIPES UP TO AND INCLUDING 525mm DIA. ENTERING OR LEAVING MANHOLES SHALL HAVE A FLEXIBLE JOINT WITHIN 600mm OF THE INSIDE FACE OF THE MANHOLE. THE NEXT PIPE SHALL BE A 600mm LONG "ROCKER PIPE".

MANHOLE TYPE C
(DEPTH TO SOFFIT <1.5m)

SHAFT DIAMETERS	
DIA. OF LARGEST PIPE IN MH (mm)	INT. DIA OF MH (mm)
UP TO 375	1200

NOTE: IF PIPE DIAMETER EXCEEDS 375mm USE MH TYPE B OR C

MANHOLE TYPE E
(DEPTH TO SOFFIT 1.0m - 1.5m)



POLYPROPYLENE INSPECTION CHAMBER
(WHERE SITED IN DRIVEWAYS/PAVED AREAS) - MAX 2000 DEPTH

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. CONCRETE BENCHING AND PIPE SURROUND
   SHALL BE PLACED IN SINGLE CONTINUOUS OPERATION FROM TOP OF BASE SLAB TO TOP OF BENCHING AND PIPE SURROUND
3. CONNECTION INTO MANHOLES
   SHALL BE CONSTRUCTED WITH THE SOFFITS AT THE LEVEL UNLESS DETAILED DIFFERENTLY ON CONTRACT DRAWINGS
4. METALWORK
   LADDERS, HANDRAILING AND SAFETY CHAIN SHALL BE AS SHOWN ON UU STANDARD DETAIL STD/01/002
5. CONCRETE SURROUND TO MANHOLES
   A 150mm SURROUND OF AT LEAST 20 N/mm CONCRETE SHALL BE PROVIDED UP TO TOP DESIGN WATER LEVEL. ANY JOINTS SHOULD BE STAGGERED WITH PRECAST CONCRETE JOINTS.
6. MINIMUM LENGTH OF CHANNEL (X Min)

CHAMBER DIA	"X" Min
1200	950
1500	1050
1800	1150
2100	1300
2400	1450
2700	1550
3000	1700

7. CUT ENDS OF REINFORCED CONCRETE PIPES
   SHALL BE TREATED WITH EPOXY RESIN PAINT/MORTAR
8. MANHOLE ACCESSES AND VARIABLE FEATURES (V.F.)
   REFER TO UU STANDARD DETAIL STND/01/013 DOUBLE STEPS SHALL BE PLASTIC ENCAPSULATED CARBON STEEL
9. COVER AND FRAME
   150mm DEEP COVERS ARE TO BE USED IN CATEGORY 1, 2, 3 ROADS

   100mm DEEP COVERS ARE TO BE USED IN CATEGORY 4 ROADS.

   DOUBLE TRIANGULAR COVERS ARE TO BE USED IN CARRIAGEWAY

   ROAD CATEGORY TO BE DESIGNATED BY THE HIGHWAY AUTHORITY

   FRAME TO BE SET AS PER SPECIFICATION
10. CONCRETE
    ALL IN-SITU CONCRETE TO BE GEN3.

REV	DATE	PURPOSE	DRN	CHK
P01	28.06.18	STAGE 3	PC	KG

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Manchester
M1 2HG

PROJECT
THOMAS STREET, MANCHESTER

TITLE
DRAINAGE DETAILS MANHOLES/CHAMBERS

PROJECT NO. 1601-09

DRAWING	REV	SCALE@A1
C-00-200	P01	NTS

STATUS
STAGE 3

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