

ALL PROPOSED DRAINAGE IS
CURRENTLY PRELIMINARY
SUBJECT TO DETAILED DRAINAGE
DESIGN BEING COMPLETED.

STEPS AT 250mm VERTICAL CENTRES

OUTLINE OF MANHOLE COVER ABOVE

BENCHING FORMED WITH GEN 3 CONCRETE WITH A HIGH STRENGTH TOPPING MIN. 40mm THICK WITH A SMOOTH AND NEAT FINISH

2250 INLET FROM TANK

FIRST JOINT POSITIONED AS CLOSE AS PRACTICAL TO MANHOLE. 600mm ROCKER PIPE

HYDROBRAKE FLOW CONTROL UNIT TO LIMIT DISCHARGE TO 5.0 L/s @ 1.4m DESIGN HEAD 100mm DIAMETER ORIFICE. REF: SHE-0100-5000-1400-5000

ROCKWELL TO MANHOLE

FIRST JOINT POSITIONED AS CLOSE AS PRACTICAL TO MANHOLE. 600mm ROCKER PIPE

SW03 VORTEX FLOW CONTROL CHAMBER PLAN

COVER FRAME TO BE BEDDED ON CLASS M1 MORTAR

MANHOLE COVER VARIES SIZE DETERMINED BY CATCHPIT DEPTH.

HEAVY DUTY PRECAST CONCRETE REDUCER SLAB WITH 600mm OPENING

675 MAX.

2 MINIMUM, 4 MAXIMUM COURSES—CLASS B ENGINEERING BRICK ON 1:3 CEMENT/SAND MORTAR FLUSH POINTED ON INSIDE FACE. CLASS B ENGINEERING BRICKS SHALL NOT CONTAIN FROGS OR HOLES

250

STEPS AT 250mm VERTICAL CENTRES WHERE REQUIRED

VARIES

300mm MIN. SUMP BETWEEN LOWEST PIPE INVERT LEVEL AND BASE OF CATCHPIT

C20 CONCRETE BASE

300

225mm TO CATCHPIT BASE

THE BOTTOM CHAMBER SECTION TO BE BUILT INTO BASE CONCRETE MINIMUM 100mm

P.C. CONCRETE MANHOLE RINGS TO BS 5911 WITH 150mm CLASS C20 CONCRETE SURROUND

TYPICAL CATCHPIT DETAIL

1200mm x 675mm B125 MANHOLE COVER

PULL HANDLE AND EYE-BRACKET FOR STEEL OPERATING ROPE

HEAVY DUTY NONE ROCKING HINGED SINGLE TRIANGULAR SURFACE BOX WITH 100mm CLEAR OPENING TO ALLOW OPERATION OF THE PIVOTING BYPASS DOOR

HEAVY DUTY REINFORCED CONCRETE COVER SLAB TO BS EN 1917 BEDDED ON PC CHAMBER SECTION WITH MORTAR, PROPRIETARY BITUMEN OR RESIN MASTIC SEALANT

150 MIN. THICKNESS GEN 3 CONCRETE SURROUND TO CHAMBER

1500 DIAMETER P.C. CONCRETE MANHOLE RINGS TO BS 5911

1500

HYDROBRAKE FLOW CONTROL UNIT TO LIMIT DISCHARGE TO 5.0 L/s @ 1.4m DESIGN HEAD
100mm DIAMETER ORIFICE.
REF: SHE-0100-5000-1400-5000

2250 INLET FROM TANK

1500 OUTLET TO EX-HAUST

T12 STARTER BARS 600mm LONG AT 200 c/c TO BOTH FACES OF WALL CAST INTO BASE SLAB TO TIE INTO WALL REINFORCING

300mm THICK C30 INSITU REINFORCED CONCRETE BASE SLAB FORMED IN SULPHATE RESISTANT R240 CONCRETE WITH TWO LAYERS OF A363 MESH IN BOTH TOP AND BOTTOM FACES. MIN. COVER 50mm ON 50mm CONCRETE BLINDING

BENCHING FORMED WITH GEN 3 CONCRETE WITH A HIGH STRENGTH TOPPING MIN. 40mm THICK WITH A SMOOTH AND NEAT FINISH

75mm C7.5 BLINDING

FIRST JOINT POSITIONED AS CLOSE AS PRACTICAL TO MANHOLE WITH COMPRESSIBLE FILLER. 600mm ROCKER PIPE

210

105

60°

375

159.780m AOD

169.830m AOD

C.L. 161.800m AOD

SW03 VORTEX FLOW CONTROL CHAMBER SECTION

A-A

PULL HANDLE AND EYE BRACKET FOR STEEL OPERATING ROPE

HEAVY DUTY TRIANGULAR SURFACE BOX WITH 100mm CLEAR OPENING TO ALLOW OPERATION OF THE PIVOTING BYPASS DOOR

HEAVY DUTY REINFORCED CONCRETE COVER SLAB TO BS EN 1917 BEDDED ON PC CHAMBER SECTION WITH MORTAR, PROPRIETARY BITUMEN OR RESIN MASTIC SEALANT

C.L. 161.800m AOD

1500

150mm GEN 3 CONCRETE SURROUND

P.C. CONCRETE MANHOLE RINGS TO BS 5911

HYDROBRAKE FLOW CONTROL UNIT TO LIMIT DISCHARGE TO 5.0 L/s @ 1.4m DESIGN HEAD 100mm DIAMETER ORIFICE REF: SHE-0100-5000-1400-5000

PIVOTING BYPASS DOOR

795

940

1000 INLET FROM TANK

1000

159.780m AOD

159.830m AOD

590

375

T12 STARTER BARS 600mm LONG AT 200 c/c TO BOTH FACES OF WALL CAST INTO BASE SLAB TO TIE INTO WALL REINFORCING

30mm THICK C30 INSITU REINFORCED CONCRETE BASE SLAB FORMED IN SULPHATE RESISTANT ROAD CONCRETE WITH TWO LAYERS OF A393 MESH IN BOTH TOP AND BOTTOM FACES. MIN. COVER 50mm ON 50mm CONCRETE BLINDING

75mm C7.5 BLINDING

SW03 VORTEX FLOW CONTROL CHAMBER
SECTION B-B

P02	13.02.2023	UPDATED TO SUIT COMMENTS	JJR	JRS	PB
P01	03.02.2023	RIBA STAGE 3 - PRELIMINARY ISSUE	JJR	JRS	PB
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS: **PRELIMINARY**

CLIENT: NORTHERN CARE ALLIANCE NHS FOUNDATION TRUST

ARCHITECT: CPC LIMITED

PROJECT:

ROCHDALE INFIRMARY CAR PARK

TITLE: BELOW GROUND DRAINAGE
FLOW CONTROL CHAMBERS &
TYPICAL CATCHPIT DETAIL

STATUS:	PROJECT NUMBER	PROJECT	ORIGINATOR	VOLSYS	LEVEL	TYPE	ROLE	DRAWING No.	REV:
S2	222-146	CPC267 - AJP - XX - 00 - DR - C - 0005							P02

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
N.T.S	JJR	JJR	JRS	PB	FEB 2023