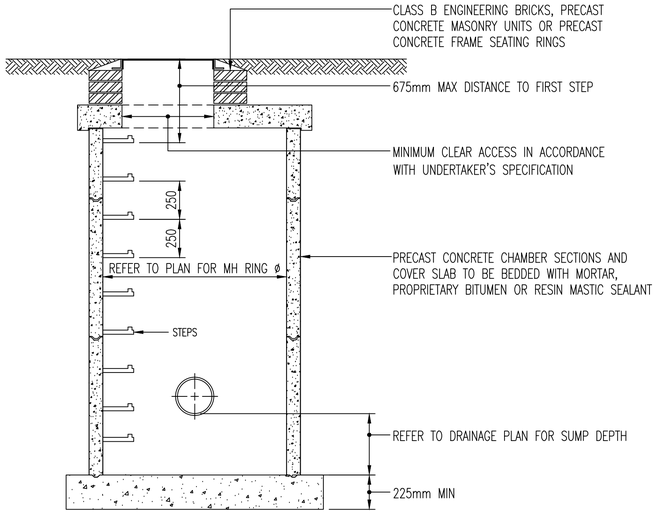
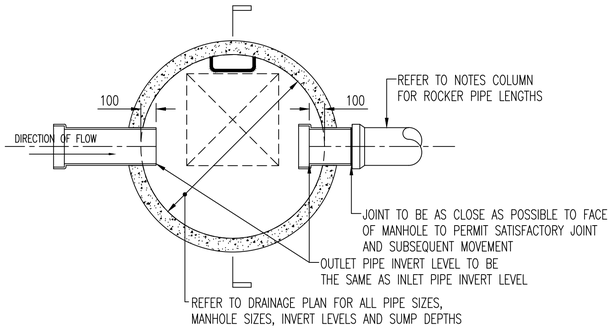
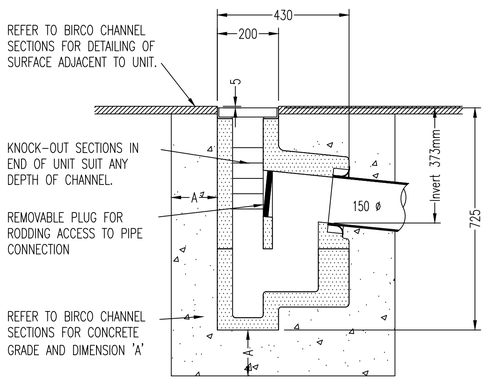


TYPICAL SECTION THROUGH SUMP MANHOLE

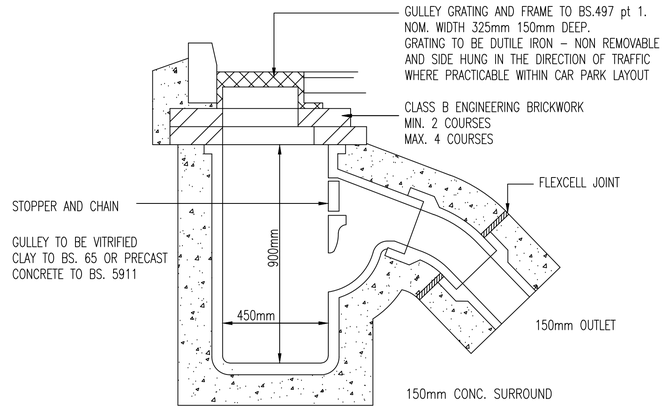


TYPICAL PLAN ON SUMP MANHOLE

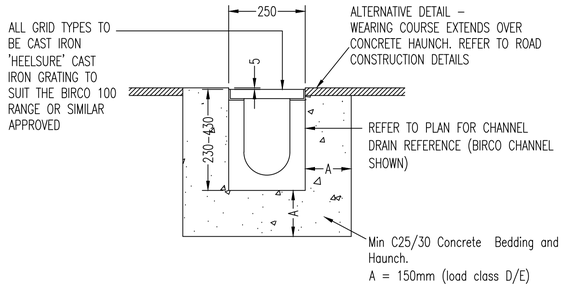


CHANNEL DRAIN – INLINE SIDE OUTFALL

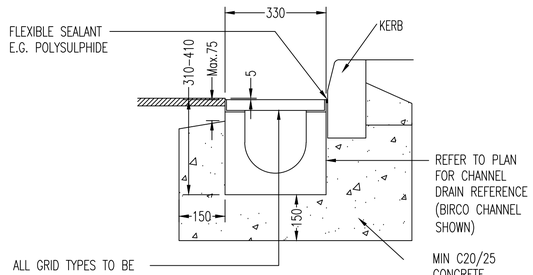
(UNIT SHOWN IS BIRCO 100, 500mm LONG)



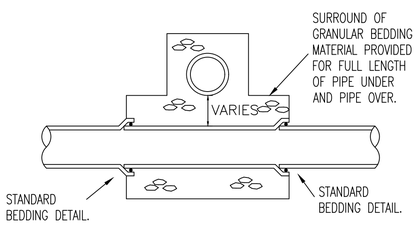
TYPICAL ROAD GULLEY DETAIL



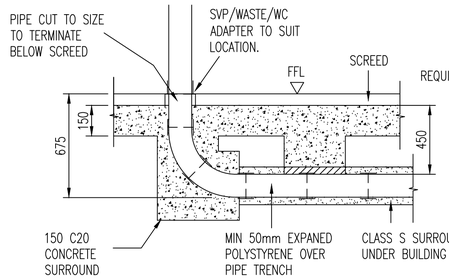
CHANNEL DRAIN IN BITUMINOUS CONSTRUCTION



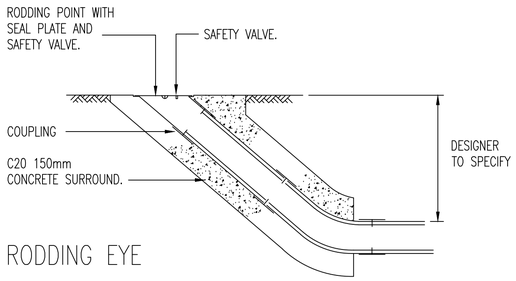
CHANNEL DRAIN DETAIL KERB SIDE APPLICATION



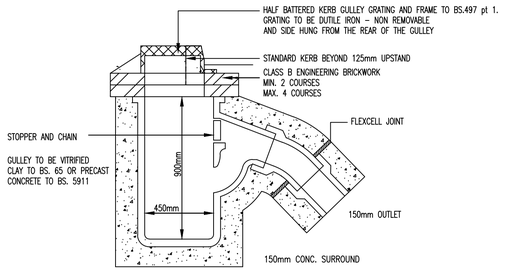
PIPE CROSS OVER DETAIL



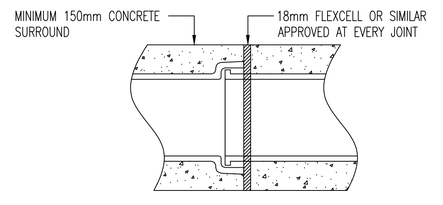
CONNECTION TO R.W.P/SWP/WASTE INSIDE BUILDING



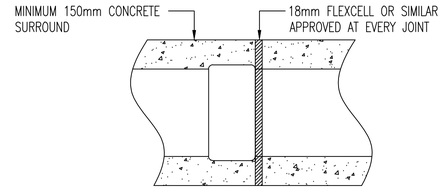
RODDING EYE



SIDE INLET GULLEY DETAIL



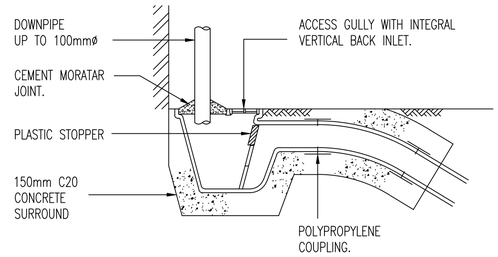
SOCKET & SPIGGOT TYPE



SLEEVE JOINTED TYPE

PLAN ON CONCRETE ENCASED PIPES

REQUIRED IN ROADWAYS & OTHER AREAS OF VEHICULAR TRAFFIC WHERE PIPE COVER IS LESS THAN 900mm (TO SOFFIT OF PIPE)



ACCESS GULLY DETAIL

DO NOT SCALE OFF THIS DRAWING

GENERAL NOTES

This drawing to read in conjunction with all relevant structural and architectural drawings and specifications.

All dimensions to be checked on site by the contractor / fabricator prior to commencement of works.

All dimensions are in millimeters unless stated otherwise.

All works to be carried out in strict accordance with the engineer's specifications, relevant British Standards and where applicable Local Authorities requirements.

Any ambiguities, omissions and errors on Drawings, shall be brought to the Engineers attention immediately.

The Contractor shall confirm the location and level of existing drainage outfalls prior to commencement of the drainage works.

Exact locations of proposed manholes and inspection chambers to be determined on site

All pipes built into the manhole inverts shall be installed with soffits levels UNO.

Connections to road gulleys shall be in 150mm nominal bore. Connections to other terminal fittings shall be in 100mm nominal bore pipe UNO.

Cover levels shown are approximate and shall be adjusted and confirm on site by the Contractor.

The Contractor shall protect the pipeline from damage by site traffic during construction.

Pipework and fittings shall comply with the following requirements except where noted otherwise:

Clayware pipes to BS 65

100 and 150mm diameter, minimum crushing strength 50kN/m on Class F bedding.

Trenches in highways and car parking areas shall be backfilled with Type 1 granular sub-base.

Soft spots in the trench formation shall be removed and replaced with granular bedding unless instructed otherwise.

Road gulleys shall be constructed using a 900mm deep x 450mm diameter gulley pot, srrounded by 150mm thickness C20 concrete, with rodding eye and chained stopper.

Gulley covers shall be Grade B captive hinged ductile iron to BS497 black coated.

Unless noted otherwise manhole covers shall be ductile iron to BS497 black coated with 600 x 600 Grade A.

Connections in pipes between manholes runs shall be formed by using purpose made clayware, 45° junction fittings to BS65. Bend fittings shall be provided where appropriate to direct the flow into the main runs.

Alternatively main pipes may be diamond cored to take lateral connections with a saddle fitting to BS65 and 150mm C20 concrete surround.

The Contractor shall confirm the location of all existing statutory undertakers apparatus and service connections by trial pits prior to opening up for the works.

THE PURPOSE OF THIS DRAWING IS FOR TYPICAL CONSTRUCTION DETAILS ONLY. MANHOLES / PIPE DIAMETERS / SUMP DEPTHS ETC WILL VARY ON PLAN.

REFER TO DRAINAGE LAYOUT DRAWING FOR ALL PIPE SIZES, MANHOLE SIZES, PIPE LENGTHS, SUMP DEPTHS, STORAGE TANK CONFIGURATIONS, COVER LEVELS AND INVERT LEVELS

Rev	Date	Checked	Description	By
PC1	21.06.18	SB	ISSUE FOR PLANNING CONDITION	JG

PLANNING CONDITION DISCHARGE

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Client: RIVERSIDE

Project: ROCHDALE EXTRA CARE
BOWNESS ROAD
LANGLEY

Drawing title: TYPICAL DRAINAGE DETAILS
SHEET 2 OF 2

Scale at A1	NTS
Drawn by	JG
Date	APR. 2018

Drawing number: 29550-666
Revision suffix: PC1