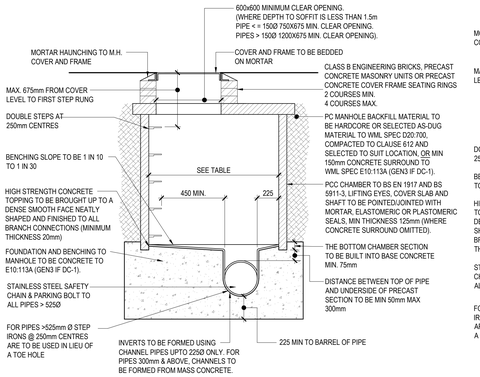
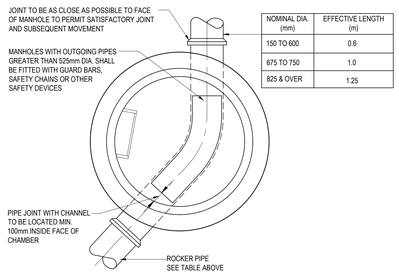


TYPICAL MANHOLE SECTION DETAIL TYPE B (TYPE 3)
DEPTH TO SOFFIT OF PIPE 1.5-3m

[SCALE 1:20]

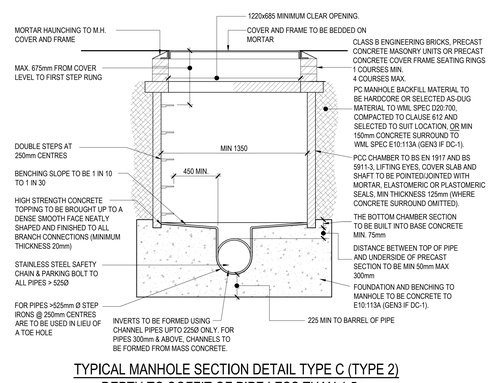


NOMINAL DIA (mm)	EFFECTIVE LENGTH (m)
150 TO 600	0.6
675 TO 750	1.0
825 & OVER	1.25

TYPICAL MANHOLE PLAN DETAIL TYPE B (TYPE 3)
DEPTH TO SOFFIT OF PIPE 1.5-3m

[SCALE 1:20]

DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	MIN. MANHOLE INTERNAL DIAMETER (mm)
< 375mm (WHERE > 1.5m DEEP TO SOFFIT)	1200
375mm - 450mm (OR WHERE < 1.5m DEEP TO SOFFIT)	1350
500mm - 700mm	1500
750mm - 900mm	1800
> 900mm	PIPE DIA + 900



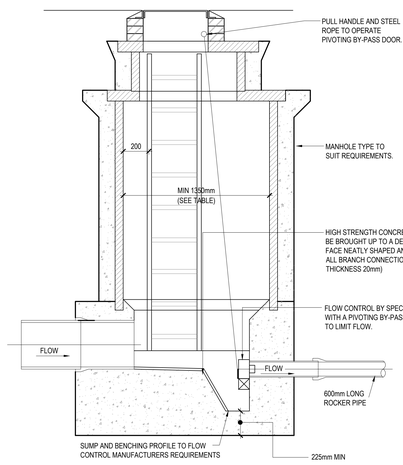
TYPICAL MANHOLE SECTION DETAIL TYPE C (TYPE 2)
DEPTH TO SOFFIT OF PIPE LESS THAN 1.5m, MAX PIPE DIA 450mm

[SCALE 1:20]

NOMINAL DIA (mm)	EFFECTIVE LENGTH (m)
150 TO 600	0.6
675 TO 750	1.0
825 & OVER	1.25

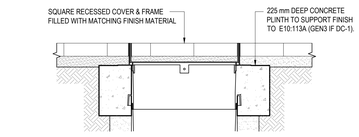
TYPICAL MANHOLE PLAN DETAIL TYPE C (TYPE 2)
DEPTH TO SOFFIT OF PIPE LESS THAN 1.5m, MAX PIPE DIA 450mm

[SCALE 1:20]

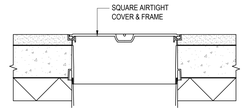


FLOW CONTROL CHAMBER
(BACKFILL, SHAFT, ACCESS, COVER SLAB AND COVER & FRAME AS PER PCC MANHOLES)

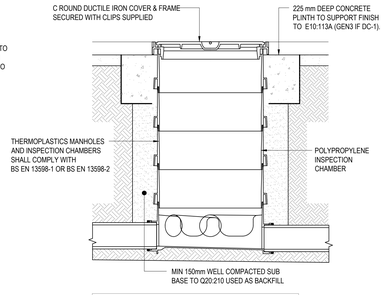
[SCALE 1:20]



SITED IN DRIVEWAYS / HARD LANDSCAPED AREAS WITH RECESSED COVER

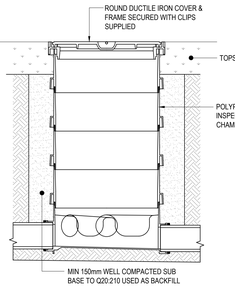


SITED IN CONCRETE FLOOR SLAB



NB - UNIVERSAL PRODUCT - ADAPTOR TO PVC-U PIPE INCLUDED

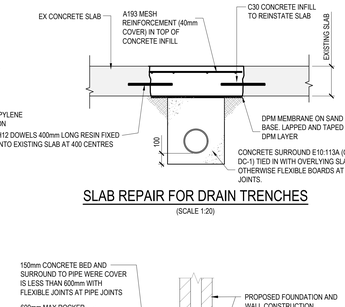
SITED IN DRIVEWAYS / HARD LANDSCAPED AREAS WITH STANDARD ROUND COVER



SITED IN SOFT LANDSCAPED AREAS WITH STANDARD ROUND COVER

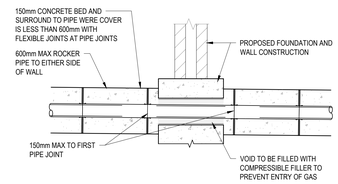
POLYPROPYLENE INSPECTION CHAMBER INSTALLATION DETAIL (475Ø UPTO 1.2m DEEP)
(HEPWORTH PRODUCTS)

NTS



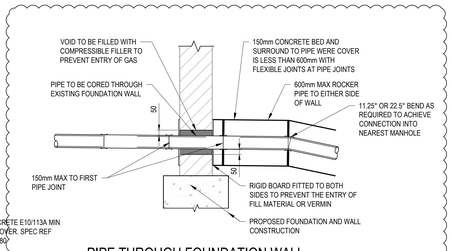
SLAB REPAIR FOR DRAIN TRENCHES

(SCALE 1:20)



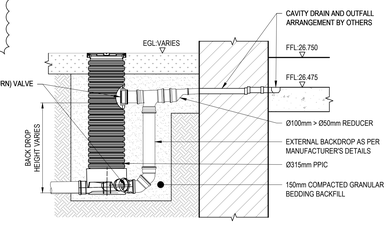
PIPE THROUGH FOUNDATION TYPICAL DETAIL

SCALE 1:20



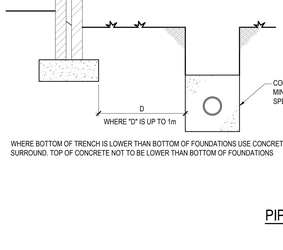
PIPE THROUGH FOUNDATION WALL TYPICAL DETAIL

SCALE 1:20



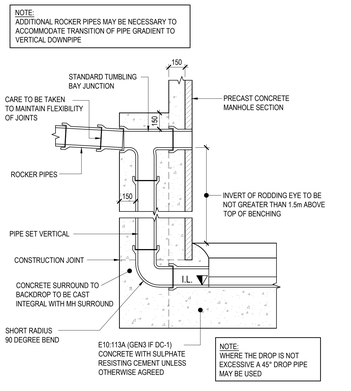
TYPICAL CAVITY DRAIN CONNECTION DETAIL

SCALE 1:20



PIPES NEAR FOUNDATIONS

[SCALE 1:20]

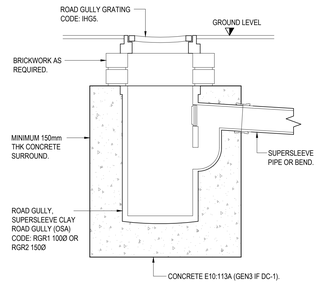


TYPICAL VERTICAL EXTERNAL BACKDROP DETAIL

[SCALE 1:20]

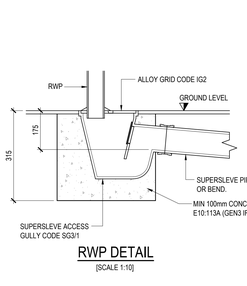
TYPICAL CATCHPIT MANHOLE PLAN & SECTION
(BACKFILL, SHAFT, ACCESS, COVER SLAB AND COVER & FRAME AS PER PCC MANHOLES)

[SCALE 1:20]



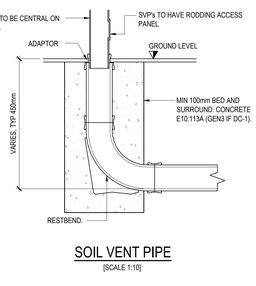
ROAD GULLEY
(300Ø x 600Dp)

[SCALE 1:10]



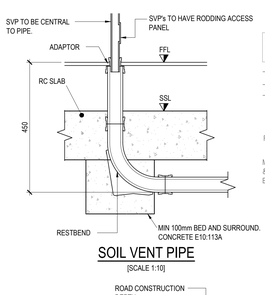
RWP DETAIL

[SCALE 1:10]



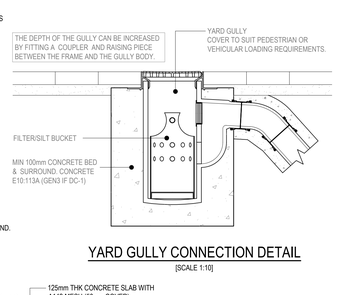
SOIL VENT PIPE

[SCALE 1:10]



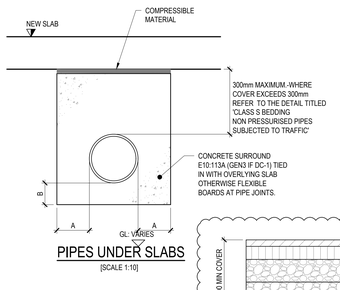
SOIL VENT PIPE

[SCALE 1:10]



YARD GULLY CONNECTION DETAIL

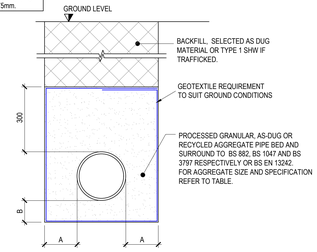
[SCALE 1:10]



PIPES UNDER SLABS

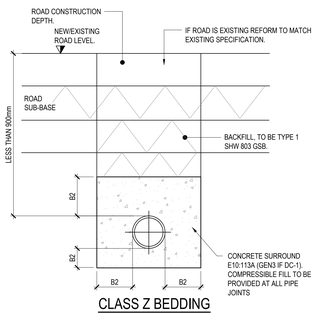
[SCALE 1:10]

IF UTILISED AS BACKFILL ALL SELECTED AS DUG MATERIAL TO BE FREE FROM WASTE, ORGANICS, STONES > 40mm & LUMPS OF CLAY > 75mm.



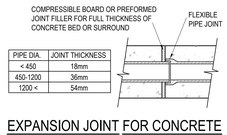
CLASS S BEDDING
NON PRESSURISED FLEXIBLE PIPES

[SCALE 1:10 @ A1]



CLASS Z BEDDING
CONCRETE SURROUND UNDER ROADS LESS THAN 1200mm COVER & NON-TRAFFICKED LESS THAN 900mm COVER.

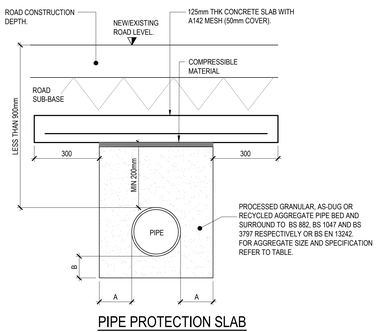
[SCALE 1:10 @ A1]



PIPE DIA.	JOINT THICKNESS
< 450	18mm
450-1200	36mm
1200 <	54mm

EXPANSION JOINT FOR CONCRETE SURROUND TO PIPES
TO OCCUR AT EVERY JOINT

[SCALE 1:10 @ A1]



PIPE PROTECTION SLAB
PAVING SLAB UNDER ROADS LESS THAN 1200mm COVER & NON-TRAFFICKED LESS THAN 900mm COVER.

[SCALE 1:10]

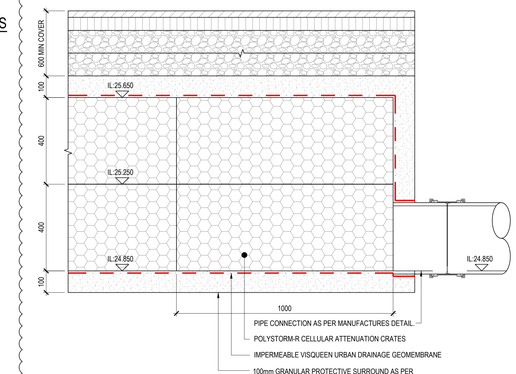
BEDDING CLASS DIMENSIONS FOR FLEXIBLE PIPES

PIPE NOM. ID	(A) MIN	(A) MAX	(B1) EVEN TRENCH BOTTOM	(B2) ROCK OR UNEVEN TRENCH BOTTOM
< 300mm	100mm	300mm	100mm	150mm
350mm	100mm	300mm	100mm	200mm
400-700mm	150mm	350mm	150mm	250mm
725-900mm	200mm	400mm	200mm	300mm
925-1200mm	250mm	550mm	250mm	350mm

PIPE SURROUND AGGREGATE SIZE (FROM WIS 4-08-02)

PIPE NOM. ID	CLASS OF BEDDING	PERMISSIBLE BEDDING MATERIAL
100mm	S	10mm NOM. SINGLE SIZE
	N	COURSE, MEDIUM OR FINE SAND
100-150mm	S	10 OR 14mm NOM. SINGLE SIZE OR 14-5mm GRADED
	N	COURSE, MEDIUM OR FINE SAND
150-300mm	S	10, 14 OR 20mm NOM. SINGLE SIZE OR 14-5mm GRADED
	N	ALL-IN AGG. OR COURSE, MEDIUM OR FINE SAND
300-550mm	S	14 OR 20mm NOM. SINGLE SIZE OR 14-5mm GRADED
	N	ALL-IN AGG. OR COURSE, MEDIUM OR FINE SAND
OVER 550mm	S	14, 20 OR 40mm NOM. SINGLE SIZE OR 14-5mm GRADED
	N	ALL-IN AGG. OR COURSE, MEDIUM OR FINE SAND

NOTE: PROCESSED AGGREGATE MATERIALS TO BS 882, AIR-COOLED BLAST FURNACE SLAG TO BS 1047 AND LIGHTWEIGHT AGGREGATES TO BS 379



TYPICAL SECTION THROUGH ATTENUATION TANK

GENERAL NOTES

DO NOT SCALE FROM THIS DRAWING WORK TO FIGURED DIMENSIONS ONLY.

NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS ALLOWED WITHOUT PRIOR PERMISSION IN WRITING.

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND THE SPECIFICATION.

THE CONTRACTOR SHALL INCORPORATE ALL THE REQUIREMENTS OF THE PRE-TENDER STAGE HEALTH AND SAFETY PLAN.

FOR DETAILS OF MATERIALS AND WORKMANSHIP REFER TO THE SPECIFICATION.

SUBJECT TO APPROVAL FROM LOCAL PLANNING AUTHORITY AND UNITED UTILITIES

CONSTRUCTION

Rev.	Amendment	Date	By	Chkd
C02	DETAILS ADDED/UPDATED.	11.09.24	DB	RJ
C01	CONSTRUCTION ISSUE.	07.08.24	DB	RJ

Project
TALBOT MILL
MANCHESTER

CLIENT
CAPITAL & CENTRIC

Title
TYPICAL DRAINAGE DETAILS

WML Job No.	Drawn	Checked	Date	Scale
10531	RH	RJ	DECEMBER 2022	AS SHOWN

WML CONSULTING
Civil, Structural & Geotechnical Engineers
No.8 Oak Green
Earl Road
Stanley Green Business Park
Cheadle Hulme
Cheshire SK8 6QL
Tel 0161 482 0600
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Drawing No.

Project	Originator	Volume	Level	Type	Role	Number	Rev
10531	WML	ZZ	XX	DR	C	9002	C02