



Drainage sheet key plan

Scale 1:1000

Mortar bedding and haunching to cover and frame. Refer to 'National Design and Construction Guidance (SSG)

Minimum clear access 600mm

675mm maximum to first ladder rung from cover level

Lifting eyes in concrete rings to be pointed

In-situ concrete to be GEN3 (designed to BRE Special Digest 1 Concrete in Aggressive Ground)

Inverts to be formed using channel pieces

The bottom precast MH ring to be built into base concrete min 75mm

Construction joint.

All in situ concrete to be GEN3 with sulphate resisting cement unless agreed otherwise

Joint to be as close as possible to face of manhole to permit satisfactory joint and subsequent movement

Ladder complying with BS EN 14396. See Clause E2.37

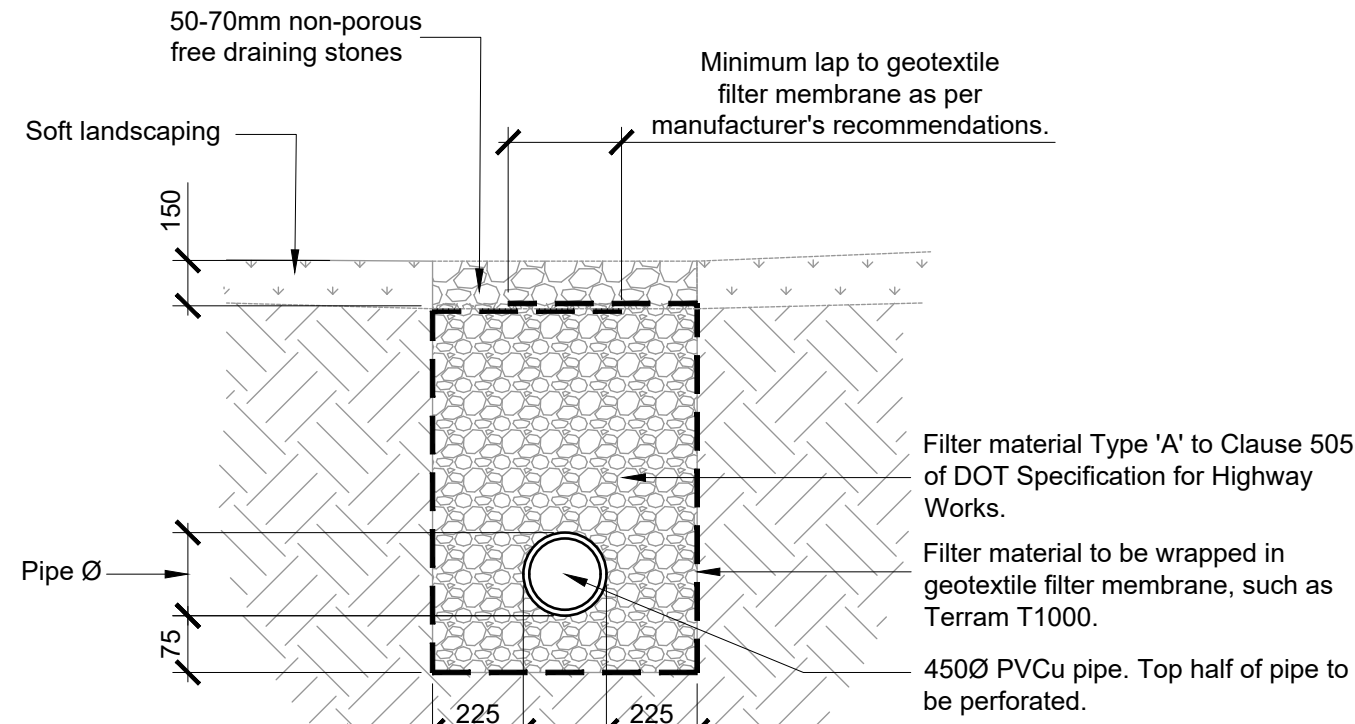
Minimum width of benching for loading area to be 500mm from the edge of the ladder to the edge of the channel

Pipe joint to be located minimum 150mm inside face of manhole

Note: Opening to be located centrally over 900 mm shaft and offset approximately 200 mm for 1200 mm diameter shaft with rungs/ladder.

Precast concrete catchpit detail

Scale 1:20



Typical filter drain detail

Not to scale

1220mm x 685mm clear cover opening complying with BS EN 124 and BS 7903. See Clause E2.32

Minimum 2 courses of Class B engineering bricks or precast concrete cover frame seating rings

900mm minimum clear access behind ladder

Precast concrete manhole sections and cover slab to be bedded with mortar, plasticomeric or elastomeric seal conforming to BS EN 1917 and BS 5911-3. See Clause E2.29

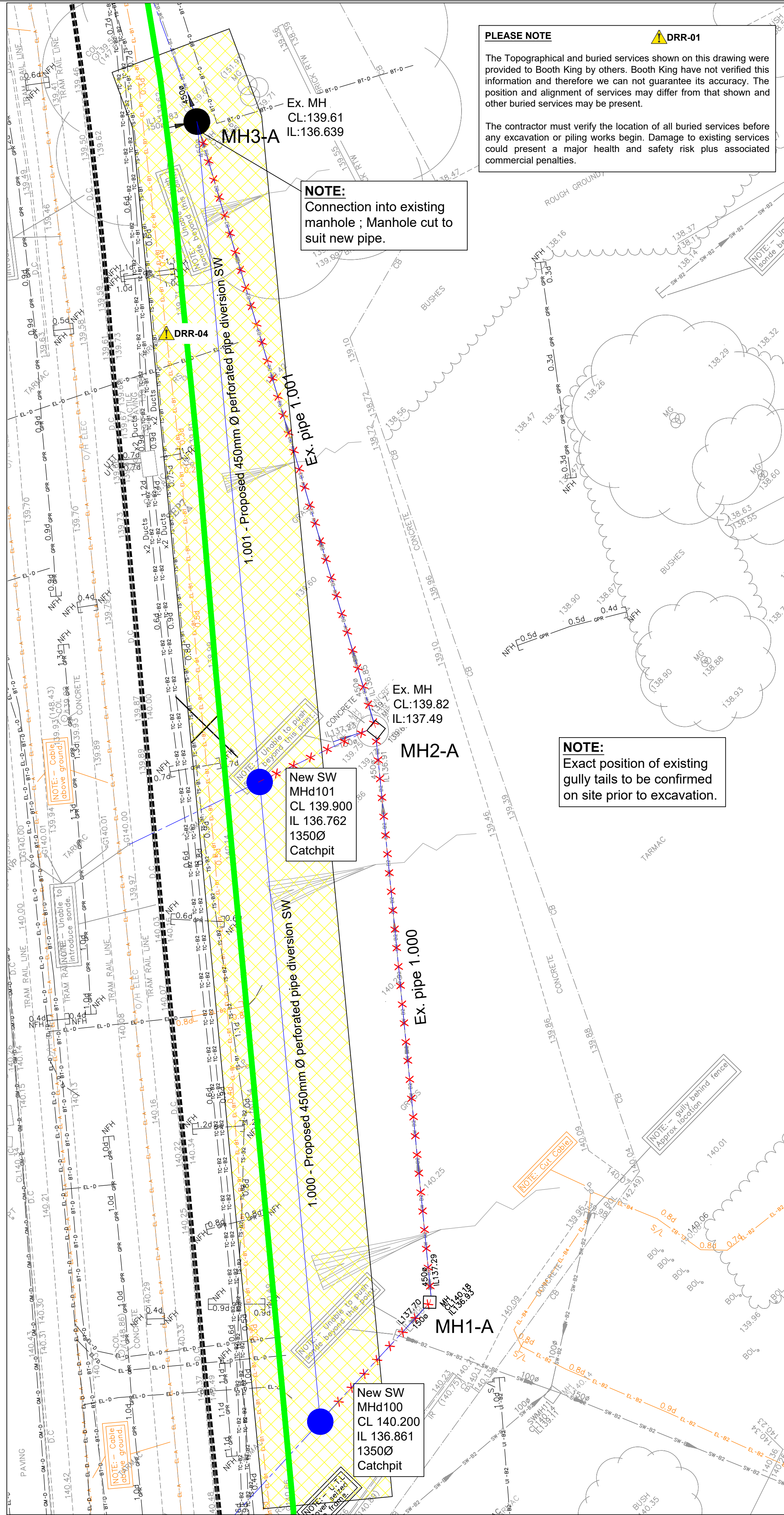
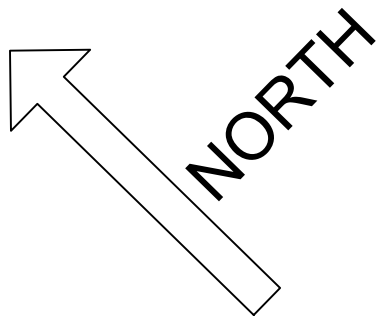
Concrete surround 150mm thick

Bottom precast section to be built into base concrete minimum 75mm

400mm to barrel of pipe

Refer to 'National Design and Construction Guidance (SSG)' E6.6' for rocker pipe information

Note: Opening to be located centrally over 900 mm shaft and offset approximately 200 mm for 1200 mm diameter shaft with rungs/ladder.



PLEASE NOTE

DRR-01

The Topographical and buried services shown on this drawing were provided to Booth King by others. Booth King have not verified this information and therefore we can not guarantee its accuracy. The position and alignment of services may differ from that shown and other buried services may be present.

The contractor must verify the location of all buried services before any excavation or piling works begin. Damage to existing services could present a major health and safety risk plus associated commercial penalties.

NOTE:
Connection into existing manhole ; Manhole cut to suit new pipe.

NOTE:

Exact position of existing gully tails to be confirmed on site prior to excavation.

NOTES

- Do not scale from this drawing.
- This drawing is copyright and is sent to you in confidence. It must not be copied, used or disclosed, in whole or in part, to third parties without written permission. It remains the property of Booth King Partnership Ltd. and must be returned on request.
- This drawing is to be read in conjunction with all relevant contractual documents.
- Anyone using this drawing must be aware of their legal duties under the CDM Regulations 2015, refer to the HSE website for further information. BKPL are not Principal Designers.
- All dimensions shown on this drawing are in millimeters unless noted otherwise.
- If the Contractor consider that they do not have sufficient information to safely complete the works detailed on this drawing, they should contact the Engineer.
- All works are to be carried out in accordance with the Building Regulations (as amended) and to the approval of Building Standards.
- To be read in conjunction with ORRD-BKP-ZZ-XX-SH-C-00513.

DRAINAGE NOTES:

- All adoptable works to be in accordance with 'National Design and Construction Guidance (SSG)'.
- All manhole cover levels to be confirmed by Architect.
- Clay pipes to be flexibly jointed and comply with the requirements of BS EN 295.
- Concrete pipes to be flexibly jointed and comply with the requirements of BSEN 1916 and BS 5911.
- Plastic pipes (PVC-U) to be flexibly jointed and comply with the requirements of BS EN 1401-1 1998.
- Until final surface is placed, heavy traffic is not to be allowed over pipe trenches without special precautions.
- Pipes and fittings are to be laid in accordance with the manufacturers recommendations.
- All Manholes should be concrete manhole rings unless stated.
- For setting out of all manhole positions refer to Architect's details.
- Civil engineering contractor to arrange for:
 - Own services and temporary supplies
 - Pathway & partial closure as deemed required by their method statement. Including costs.
 - Temporary adequate over pumping as deemed required by civil engineers method of construction.
- The contractor should confirm the locations of existing services prior to construction.

KEY

- Planning Application boundary. Refer to BKPL Design Risk Register ORRD-BKP-00-XX-RA-C-00561 6m easement strip.
- Existing sewer to be grubbed up
- TfGM proposed SW diversion

P04	14.06.23	450mm perforated pipe added	AA
P03	13.04.23	Amended as per TfGM comments	AA
P02	11.11.22	TfGM gully tails added, diversion size update	JDE
P01	13.10.22	Stage 4 First Issue, Drawing Supersedes 14251-BKP-Z1-XX-DR-C-611	JDE
REV.	DATE	REVISION DETAILS	INITIALS

bk

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PROJECT:
Oldham Road,
Rochdale Development

TITLE:
Enabling Works Contract
TfGM Sewer Diversion GA

SCALE @ A1:	DRAWN:	DATE:	REVISION:	STATUS:
As Shown	FT	Oct'22	P04	S3

DRAWING No:
ORRD-BKP-ZZ-XX-DR-C-00512