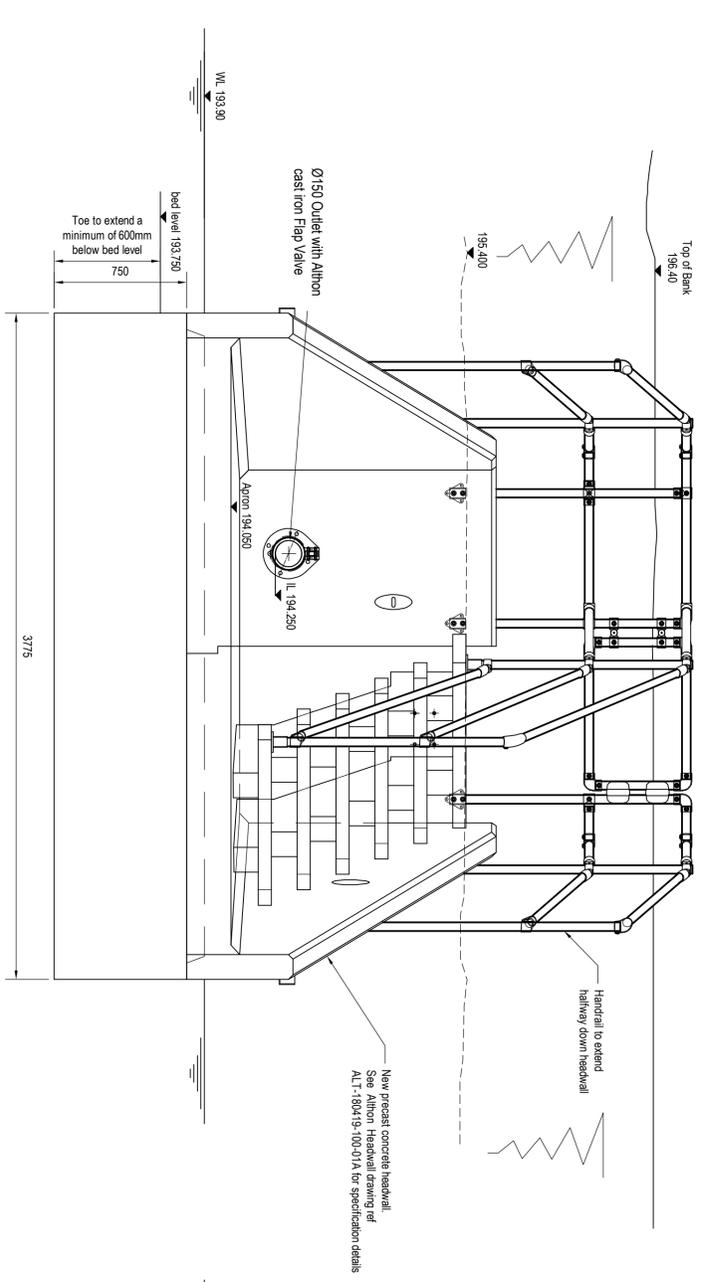


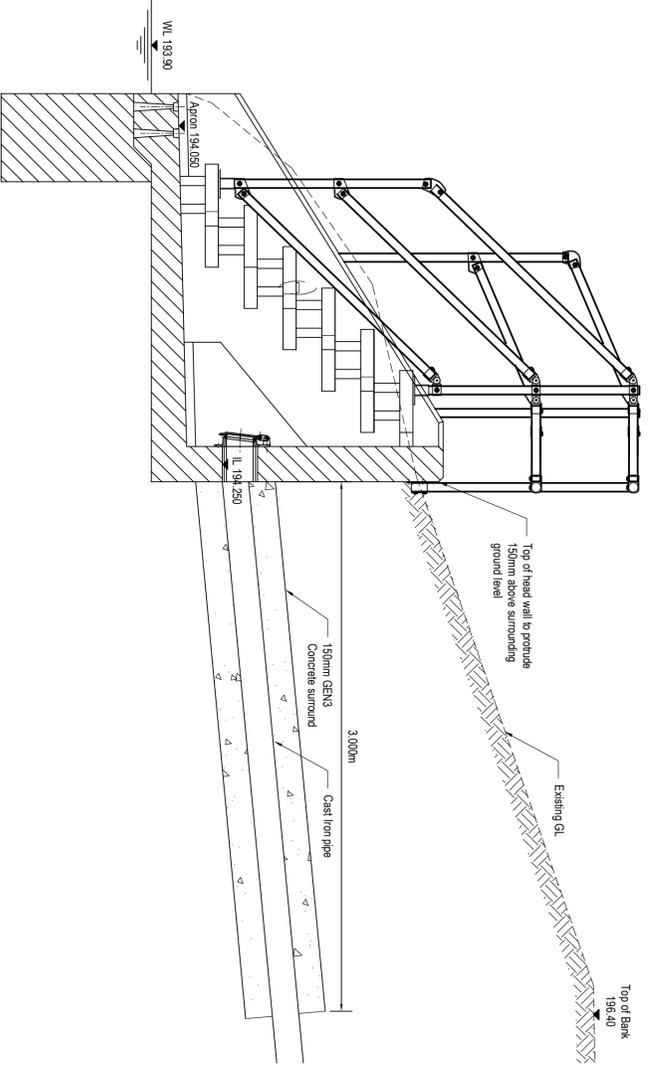
PLAN ON HEADWALL  
SCALE 1:50



ELEVATION B-B  
SCALE 1:20



SITE LOCATION PLAN  
SCALE 1:250



SECTION A-A  
SCALE 1:20

YORKSHIRE WATER NOTES

- All adoptable sewer works and materials to be in accordance with Sewers for Adoption 6th Edition. The relevant Engineer and Yorkshire Water should be consulted for any requirements in the Mechanical and Electrical Specification and Resumable.
- Manhole covers shall must have a clear opening of 600mm and shall be class D400 to BS EN 124 with 150mm deep frames in highways.
- Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.
- Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
- Yorkshire Water is not obliged to accept finer drained drainage runoff into the public sewer network or adoptable drainage system (directly or indirectly). An alternative method of disposal of the land drainage runoff will therefore be required and you will have to liaise with the Local Authority Land Drain Section with regard to the disposal of the filter drain/land drainage runoff.
- Cover slabs must carry the BS1 Kitemark or will be rejected by Yorkshire Water Inspector. Where the clear opening of the kerbside product is different to that of the cover and frame, a lead bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm for the Yorkshire Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), Technical Bulletin issued Autumn 2004 for Kitemark cover slab opening sizes.
- Sulphate resistant cement (C20/DC2) and precast concrete products must be used for a laboratory report providing proof that such precasters are not necessary.
- The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- Sewers must have 5 metres clearance from trees and hedges. (Please also refer to Figure 2.3 on page 33 in 'Sewers for Adoption' 6th Edition for restrictions on 'tree planting adjacent to sewers')
- Sewers to be laid in class 'S' bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 2m in highways and verges (or less than 300mm in more vehicular access areas), a concrete slab should be provided above the granular bed and surround.
- Bedding and backfill material to conform to the requirement of Water Industry Specification 4-09-02 (Table A2).
- The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and berms.
- Yorkshire Water policy is not to accept 'Type C' brick manholes and 1050mm dia manhole rings. Instead it is preferred that you use a type 'B' manhole with 1200mm dia or 1500mm dia rings, with the opening sized over the chamber where depth of cover to pipe silt is 1 - 1.5m.
- Ribclic channel sections in manholes are not acceptable and Yorkshire Water would prefer diverse channel manholes. We have found ribclic channels are difficult to set in concrete because they float and a satisfactory finish cannot be obtained on the benching.

Notes:

- Where the drawing has been issued in electronic A3 format it has been done so in good faith. Approval on our behalf is responsibility for any inaccuracies in the electronic data, which should be checked against the paper (or pdf) drawing issue. Any apparent discrepancies should be immediately reported to jnpgroup. The electronic A3 file should not be assumed to be to scale and should not be used for 'overlaying', setting out or checking of any third party information. All dimensions should be taken from the paper (or pdf) version of the drawing. Electronic drawings may contain third party information, jnpgroup take no responsibility for this information, which should be checked against the originators paper drawings(s).
- All working dimensions to be checked on site.
- Do not scale.
- Any discrepancies between drawings of different scales, and between drawings and specification where appropriate to be notified to The Engineer or decision.
- Copyright reserved. This drawing may only be used for The Client and location specified in the title block. It may not be copied or disclosed to any third party without the prior written consent of jnpgroup.
- This drawing should only be used for construction if the drawing status is 'Construction'. jnpgroup take no responsibility for construction works undertaken on drawings which are not marked with this status.

**Health and Safety Note:**  
The details on this drawing have been prepared on the assumption that a competent contractor will be carrying out the works. No information on this drawing should be used to justify any liability on the part of the designer.

HAZARD IDENTIFICATION BOX	
Construction Hazard	Maintenance / Demolition / Adoption
	Clearing Hazard

All levels of existing sewers to be confirmed prior to works commencing

OS Eastings 409088  
OS Northings 410658

Rev#	Date	Comments	By	CHK
B	02.05.19	Concrete surround added to final 3.0m of pipe. Athlon drawing reference updated.	CPY	
A	18.04.19	Changes following Yorkshire Water comments	CPY	

Status: Amendment

**For Approval**

**John Newton & Partners**  
Consulting Engineers

www.jnpgroup.co.uk

Chesham • Belper • Handsworth • Easton • Gillingham • Gt. A. • Sheffield  
Tel: 01454 400991 Email: bnp@jnpgroup.co.uk

Client	PENNINE DEVELOPMENTS LTD
Job	LAND OFF MILL MOOR ROAD, MELTHAM, HUDDERSFIELD, HD9 5LW
Title	HEADWALL DETAIL

Scale: As shown

Drawn by: CPY

Checked by: [Signature]

Date: MARCH 2019

Approved by: [Signature]

Drawing No: B21967-D-316

Rev: B