

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing. Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

Notes:

- This drawing presents the "Drainage Details", for the S278 offsite highway works to be undertaken on the B1053 Radwinter Road, Saffron Walden.
- For the Drainage Layout, refer to the following drawings:  
891015-RSK-ZZ-XX-DR-C-7051
- Dimensions in mm. Do not scale from this drawing, use specified dimensions.

Materials

- All chamber covers and frames shall be heavy duty ductile iron, kitemarked and compliant with BS EN 124. All covers used in carriageways shall be D400 classification.
- All precast concrete chamber rings, covers slabs and seating rings to conform with BS EN 1917 and BS 5911-3 and shall be installed in accordance with the manufacturer's recommendations and guidance.
- The high strength concrete topping as shown on this drawing shall be a granolithic concrete complying with the relevant provisions of BS 8204-2.
- All insitu concrete specified on this drawing shall be compliant with BS EN 206 and BS 8500.
- All drainage pipes used for the main drainage works shall be:  
Structural wall thermoplastic to the relevant provisions of BS EN 13476.  
Great care shall be taken to ensure that the components of the flexible joints are not damaged in any way during unloading, storage or laying.
- The pipe bedding details as shown on this drawing assume the use of rigid pipes and therefore for the purposes of this project, "Structural walled thermoplastic pipes", shall also be considered to be rigid pipes.
- A high-performance bedding mortar is required, being a non-shrink material with a minimum compressive strength of 30N/mm<sup>2</sup> sq within 3 hours, and a minimum tensile strength development of 5N/mm<sup>2</sup> sq within 3 hours. To gain this rate of strength development materials that fully conform to CD534 criteria are required. Refer to Essex Highways DCM Clause 4.3.10.

ALL WORKS TO BE COMPLIANT WITH NATIONAL HIGHWAYS MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS:  
VOLUME 1 - SPECIFICATION FOR HIGHWAY WORKS (SHW)

ALL WORKS TO ADHERE TO THE FULL REQUIREMENTS OF ESSEX HIGHWAYS DEVELOPMENT CONSTRUCTION MANUAL (DCM)

P04	04.02.2026	Updated in line with ECC's drawing & comments sheet. All revisions are clouded.	YP	GT	-
P03	26.11.2025	Updated in line with ECC's drawing & comments sheet. All revisions are clouded.	YP	GT	-
P02	21.10.2025	For Approval S278 Submission	YP	GT	-
P01	17.10.2025	Issued For Comment	YP	GT	-

Rev.	Date	Amendment	Drawn	Chkd.	Appd.
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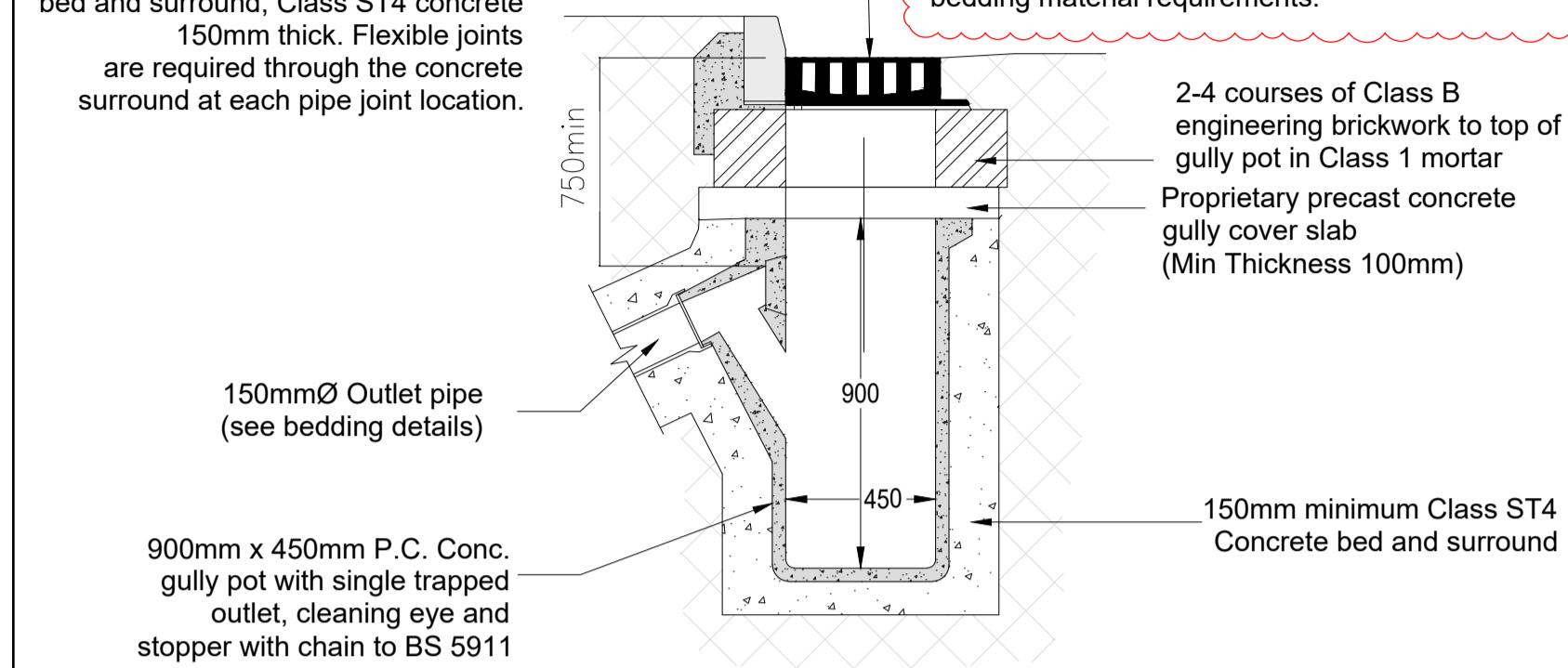
Client  
**RADWINTER ROAD, SAFFRON WALDEN  
S278 HIGHWAY IMPROVEMENT WORKS  
TEMPORARY SITE ACCESS**

Status **APPROVAL**

Drawing Title  
**DRAINAGE DETAILS  
SHEET 2**

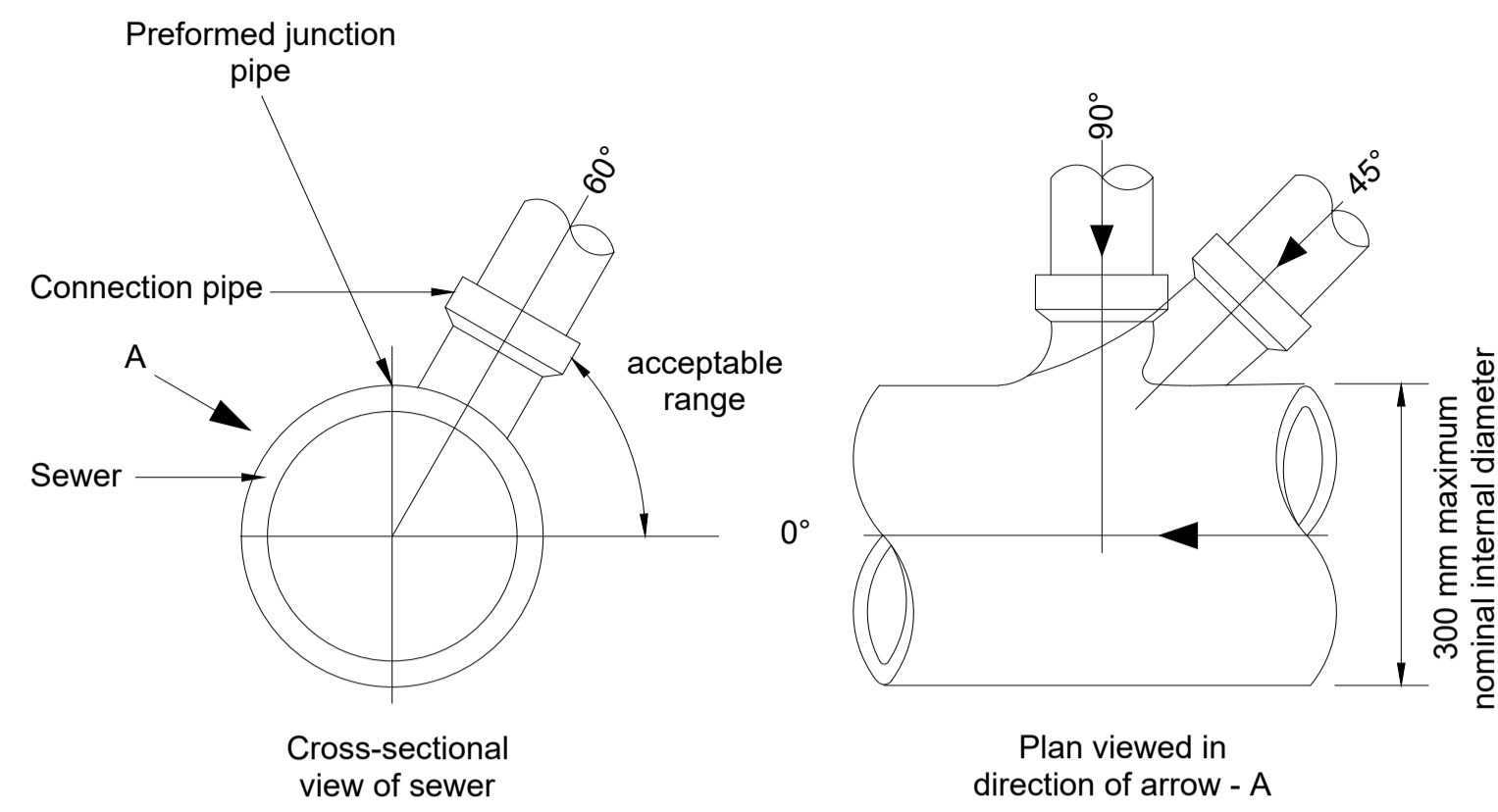
Drawn	Date	Checked	Date	Approved	Date
YP	12.10.2025	GT	16.10.2025		
Scale	As Shown	Orig Size	A1	Dimensions	Millimetres
Project No.	891015		Drawing File	891015-RSK-ZZ-XX-DR-C-7052 & 7053 P04 - Drainage Details.dwg	
Drawing No.	891015-RSK-ZZ-XX-DR-C-7053			Rev.	P04
Project	Draw. No	Orig	Vol./Sys	Type	

Gully connections to have a full concrete bed and surround, Class ST4 concrete 150mm thick. Flexible joints are required through the concrete surround at each pipe joint location.



ROAD GULLY DETAIL

SCALE 1:20



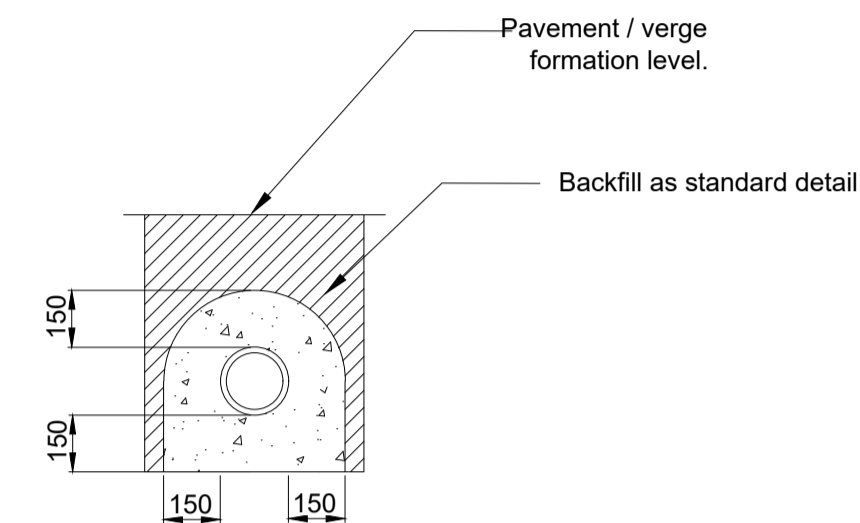
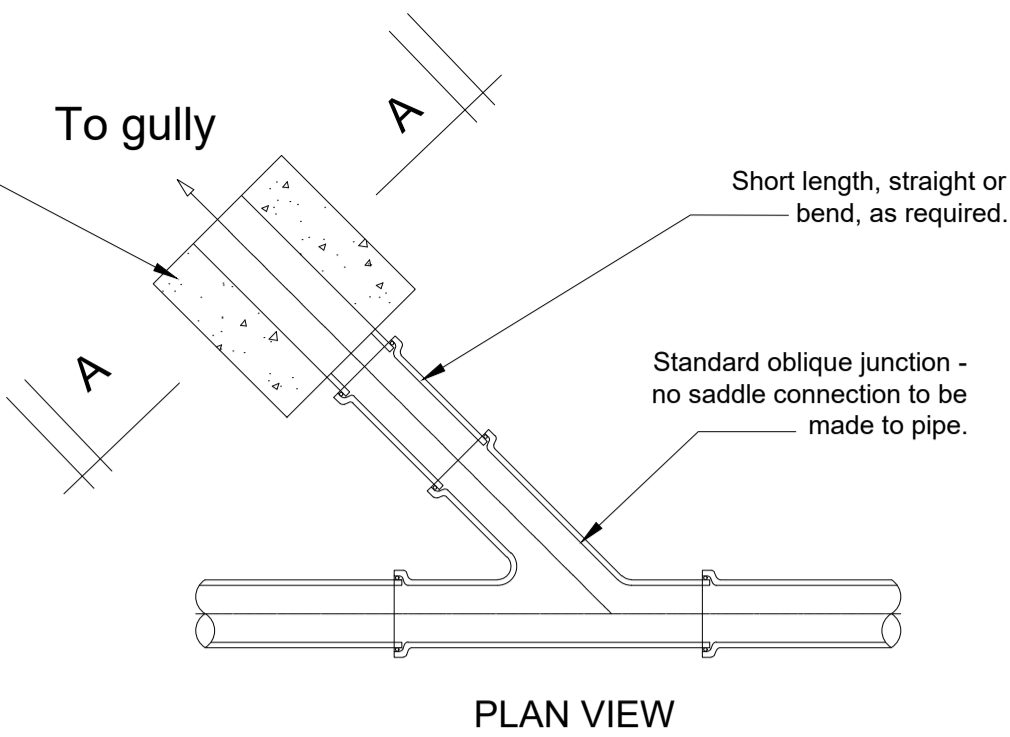
LATERAL CONNECTIONS TO MAIN SEWERS / HIGHWAY DRAINS

SCALE 1:20

150mm concrete, mix ST4, with SRPC. Compressible joint filler to be provided at pipe joints. 25mm compressible joint filler shall extend to full thickness of concrete.

NOTES:

- For pipe specification refer to the general notes on this drawing.
- Concrete class shall be ST4 to relevant Specification for Highway Works (SHW) Clauses



TYPICAL GULLY CONNECTION DETAIL  
Not to scale

SCALE N.T.S.