



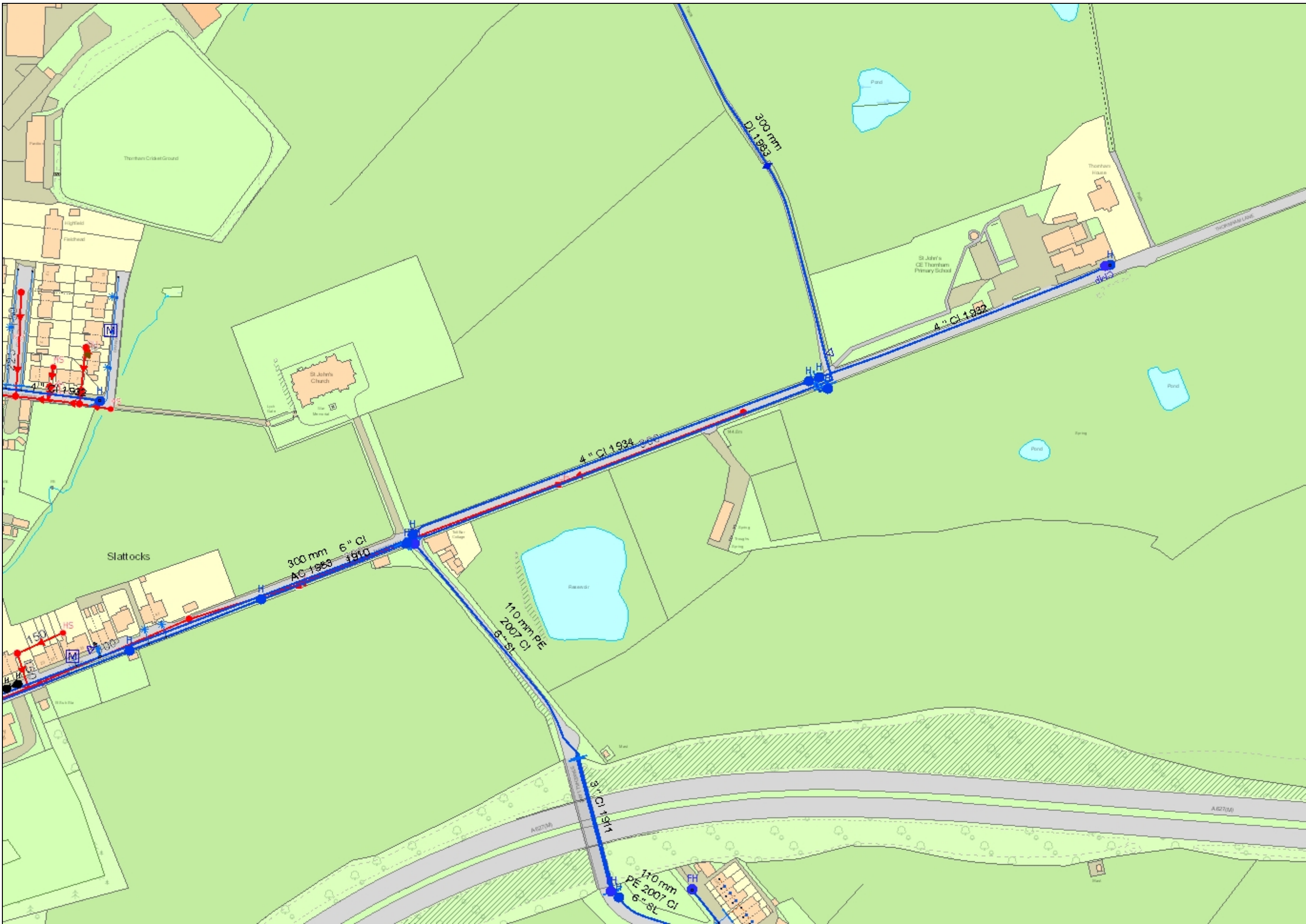
United Utilities
Maps for Safe Dig

Date :	08/07/2022 12:16:35
Centre X :	388683
Centre Y :	409407
Scale :	2000
UserName:	G4LG72Y

Extract from maps of United Utilities' Underground Assets

The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. The actual positions may be different from those shown on the plan and private service pipes may be shown by a blue broken line. United Utilities Water will not accept liability for any damage caused by the actual position being different from those shown.

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United Utilities Maps
for SafeDig

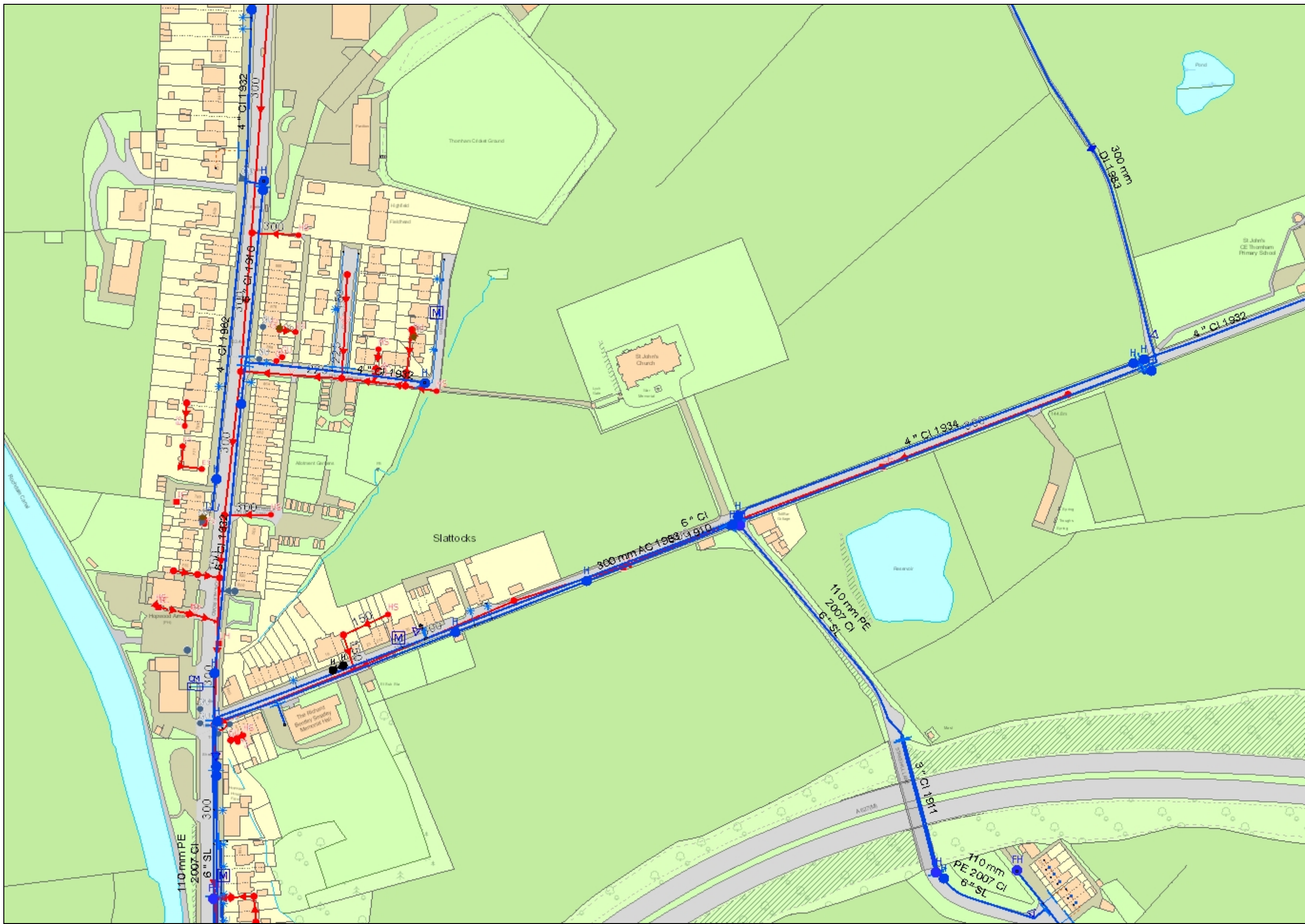
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Scale :	2000
UserName:	G4LG72Y

Extract from maps of United Utilities'
Underground Assets

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United Utilities Maps
for SafeDig

Date :	08/07/2022 12:15:47
Centre X:	388726
Centre Y:	408787
Scale :	2000
UserName:	G4LG72Y

Extract from maps of United Utilities'
Underground Assets

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**United Utilities
Maps for Safe Dig**

Date :	08/07/2022 12:16:10
Centre X :	388729
Centre Y :	409141
Scale :	2000
UserName:	G4LG72Y

**Extract from maps of United
Utilities' Underground Assets**

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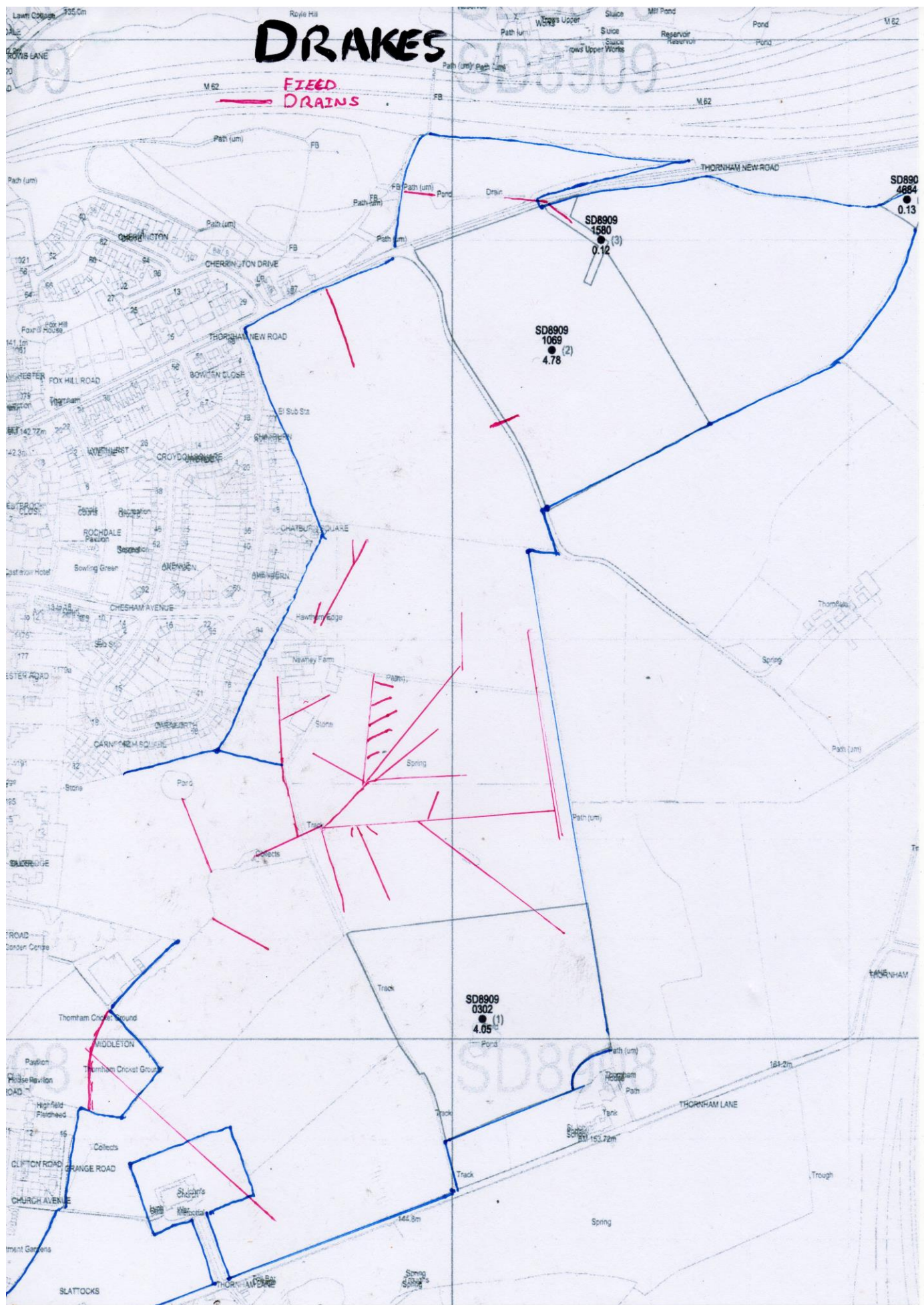
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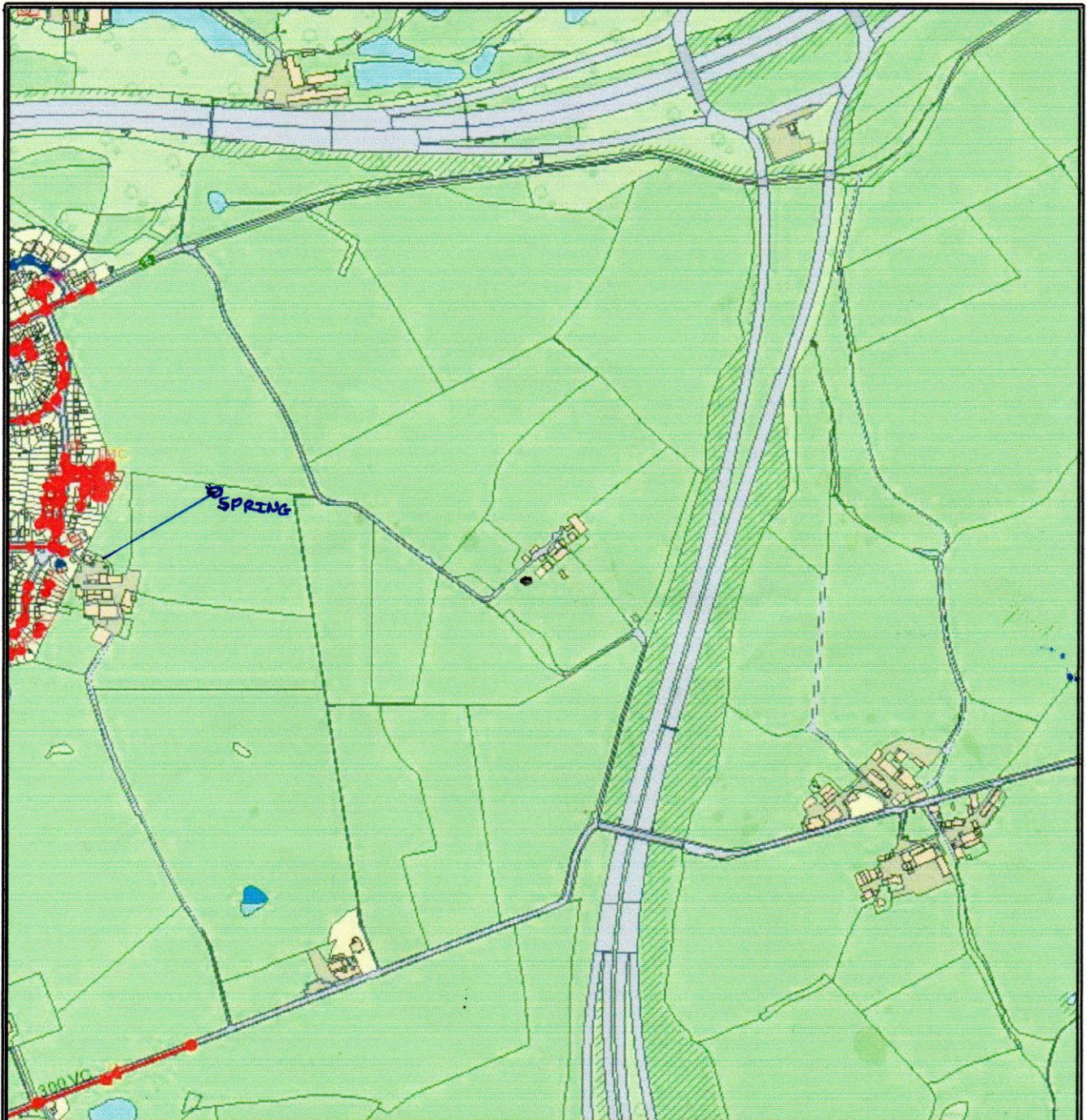
APPENDIX D

LAND DRAINAGE SKETCH PLAN

FEED DRAINS



SEWER RECORD LAND EDGED RED THORNFIELDS THORNHAM NEW ROAD CASTLETON,
 MIDDLETON ROCHDALE



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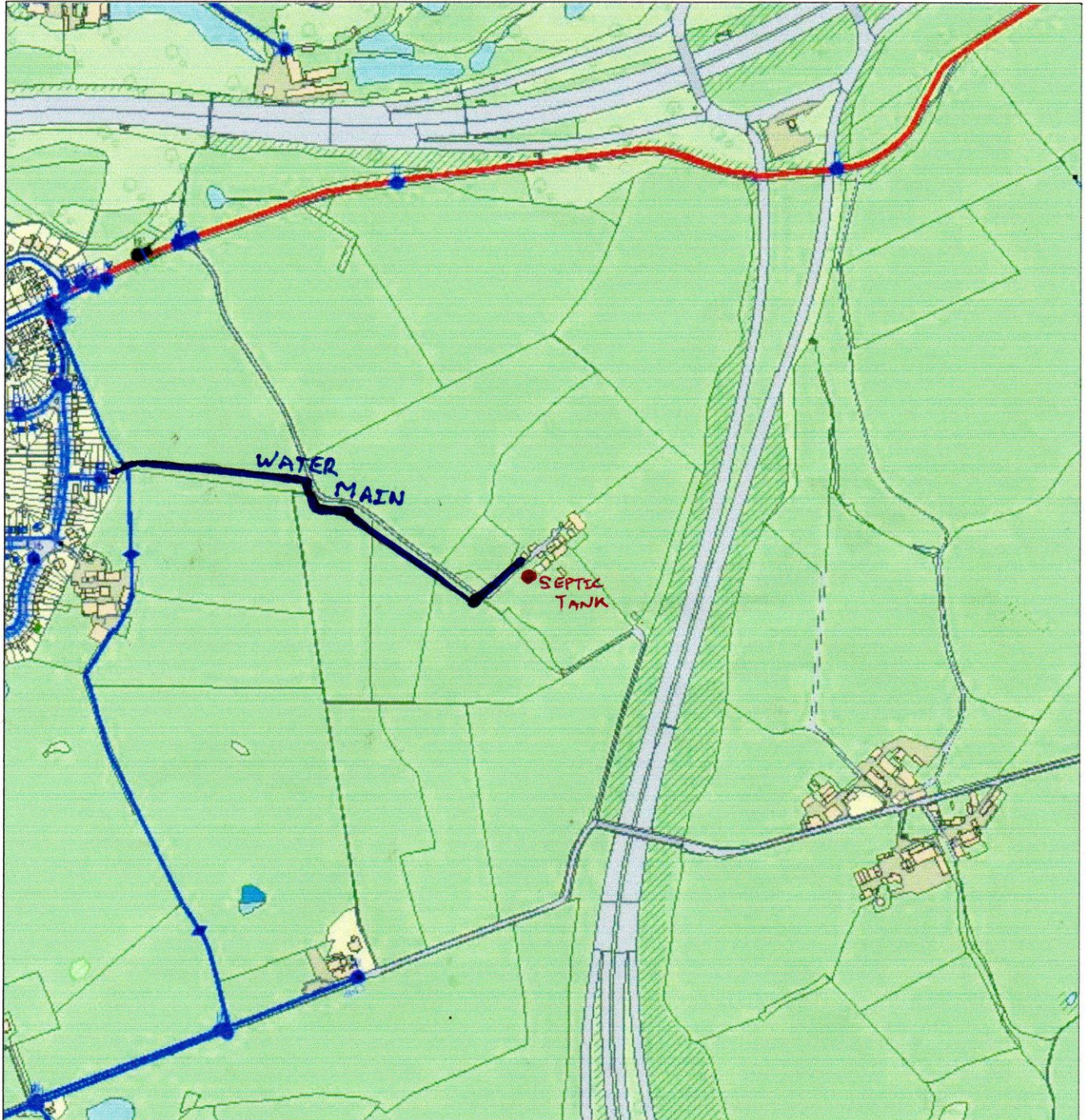


**United
Utilities**

ALLENS

COMMERCIALDW
DRAINAGE AND WATER ENQUIRY

WATER RECORD LAND EDGED RED THORNFIELDS THORNHAM NEW ROAD CASTLETON,
MIDDLETON ROCHDALE



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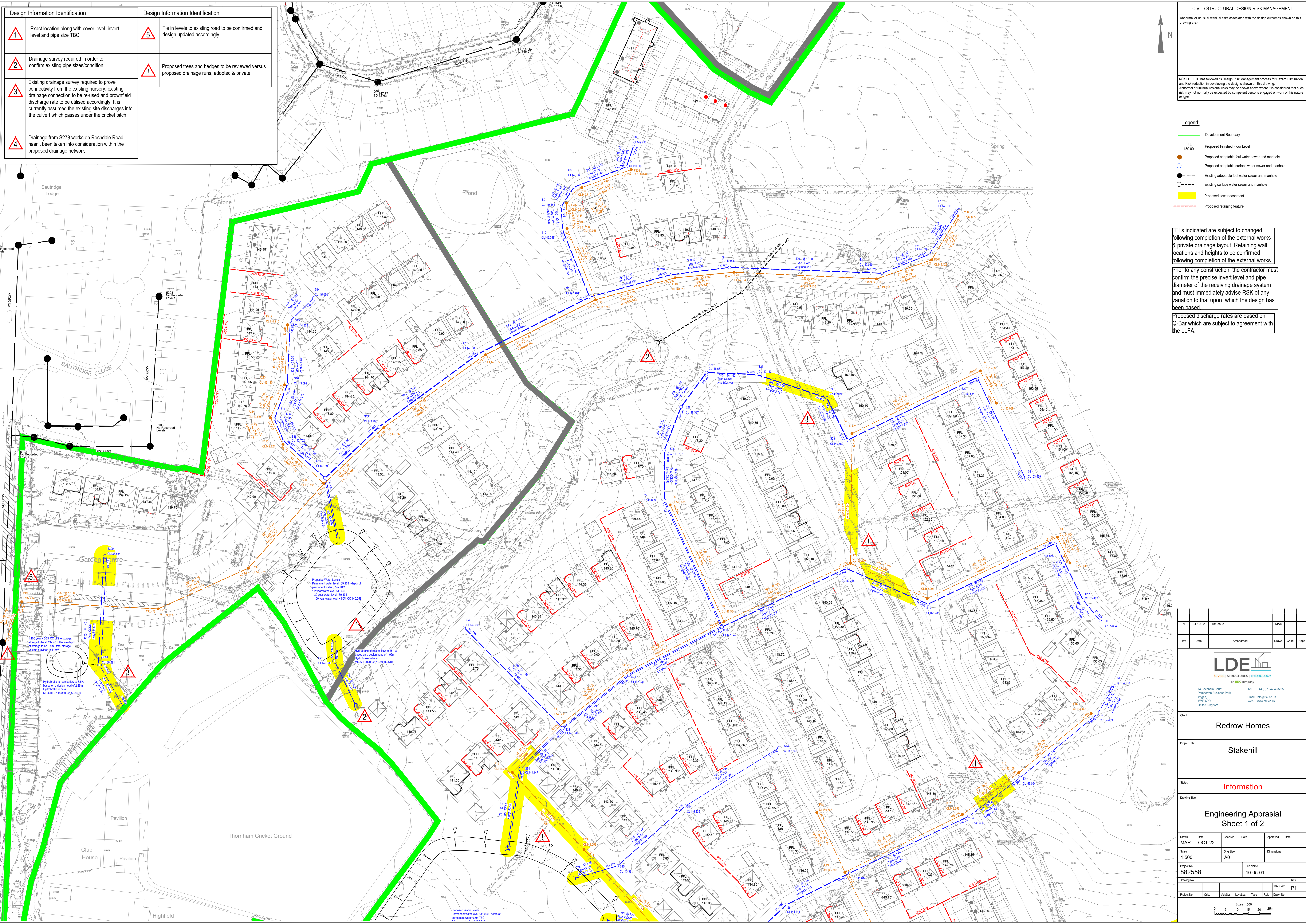
APPENDIX E

CCTV SURVEYING LAYOUT PLAN



APPENDIX F

PHASE 1 LAYOUT AND ENGINEERING APPRAISAL



Design Information Identification		Design Information Identification	
	Exact location along with cover level, invert level and pipe size TBC		Tie in levels to existing road to be confirmed and design updated accordingly
	Drainage survey required in order to confirm existing pipe sizes/condition		Proposed trees and hedges to be reviewed versus proposed drainage runs, adopted & private
	Existing drainage survey required to prove connectivity from the existing nursery, existing drainage connection to be re-used and brownfield discharge rate to be utilised accordingly. It is currently assumed the existing site discharges into the culvert which passes under the cricket pitch		
	Drainage from S278 works on Rochdale Road hasn't been taken into consideration within the proposed drainage network		

CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

Anomol 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.
Anomol 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.

Legend:

Development Boundary

FFL 150.00

Proposed adoptable foul water sewer and manhole

Proposed adoptable surface water sewer and manhole

Existing adoptable foul water sewer and manhole

Existing surface water sewer and manhole

Proposed sewer easement

Proposed retaining feature

FFLs indicated are subject to changed following completion of the external works & private drainage layout. Retaining wall locations and heights to be confirmed following completion of the external works

Prior to any construction, the contractor must confirm the precise invert level and pipe diameter of the receiving drainage system and must immediately advise RSK of any variation to that upon which the design has been based.

Proposed discharge rates are based on Q-Bar which are subject to agreement with the LLFA.

P1	31.10.22	First Issue	MAR		
Rev	Date	Amendment	Drawn	Chkd	App'd

LDE

CIVILS STRUCTURES HYDROLOGY

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Client

Redrow Homes

Project Title

Stakehill

Status

Information

Drawing Title

Engineering Appraisal
Sheet 1 of 2

Drawn	Date	Checked	Date	Approved	Date
MAR	OCT 22				
Scale	1:500	Orig Size	A0	Dimensions	

Project No.	882558	File Name	10-05-01			
Drawing No.		Rev.	P1			
Project No.	Orig.	Vol/Rev.	Rev.	10-05-01	Rev.	P1

Scale 1:500

0 5 10 15 20 25m