

NOTES:

1. ALL SEWERS ARE DESIGNED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6TH EDITION AND UNITED UTILITIES GUIDELINES AND STANDARD DETAILS.
2. ALL CO-ORDINATES AND LEVELS SHOWN ARE RELATIVE TO THE TOPOGRAPHIC SURVEY.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE LINE AND LOCATION OF ANY EXISTING SEWERS, AS WELL AS ANY EXISTING GROUND AND INVERT LEVELS SHOWN ON THE DRAWING ARE CORRECT PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY.
4. PRIOR TO THE COMMENCEMENT OF ANY ON SITE WORKS THE CONTRACTOR MUST CONTACT THE STATUTORY UNDERTAKER AND BE IN POSSESSION OF THE LATEST DRAWINGS SHOWING THEIR APPARATUS.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ALLOW FOR THE SUPERVISION OF THE CONSTRUCTION WORKS BY UNITED UTILITIES AND/OR THE HIGHWAYS AUTHORITY. THE CONTRACTOR WILL NOTIFY THE SUPERVISING OFFICER GIVING NOTICE WHICH WILL BE IN ACCORDANCE WITH THE AUTHORITIES REQUIREMENTS.
6. THE PROPOSED SEWERS WILL BE CLAY PIPE WORK AND SHALL BE EXTRA STRENGTH TO BS EN 295 1991 PART 1.
7. ANY RCC PIPE WORK WILL BE IN ACCORDANCE WITH BS EN 1916:2002.
8. ALL MANHOLES AND CHAMBERS SHALL BE IN ACCORDANCE WITH BS EN 1917:2002.
9. SEWERS WITH COVER TO SOFFIT GREATER THAN 1.2m IN ROADS AND 0.9m IN FIELDS SHALL HAVE BED AND SURROUND AS FOLLOWS: RIGID PIPE EMBEDMENT SHALL BE CLASS 5. SEMI RIGID PIPE EMBEDMENT SHALL BE CLASS 5 ALL IN ACCORDANCE WITH UNITED UTILITIES STANDARD DETAIL 57ND/05/001.
10. PRIVATE DRAINAGE CONNECTIONS TO THE SEWER WILL BE 150MM DIAMETER AND LAID TO THE SPECIFIED INVERT.
11. THE INVERT LEVELS SPECIFIED AT THE DRAG OUT CHAMBER ARE INCOMING LEVELS.
12. WHEREVER POSSIBLE PRIVATE DRAINAGE RUNS WILL REMAIN WITHIN THE CURTILAGE OF THE DWELLING FOR WHICH THEY SERVE.
13. THE CONNECTION TO THE ADOPTABLE SEWER SHALL BE MANUFACTURED JUNCTION PIPES A SADDLE CONNECTION IS NOT PERMITTED UNLESS IT IS CLEARLY SPECIFIED.
14. ANY SEWER FOR ADOPTION WITH A COVER OF LESS THAN 1.2M TO PIPE SOFFIT IN ROADS OR 0.9M TO PIPE SOFFIT IN FIELDS WILL HAVE A MINIMUM 50mm GEN 3 CONCRETE BED AND SURROUND WITH FLEXIBILITY MAINTAINED WITH FLEXCELL EXPANSION JOINT FILLER OR SIMILAR APPROVED AT EACH PIPE JOINT.
15. CONNECTIONS TO THE EXISTING SEWER WILL BE IN ACCORDANCE WITH SECTION 104 APPROVAL GRANTED BY UNITED UTILITIES.
16. CONNECTIONS TO THE EXISTING WATERCOURSE WILL BE IN ACCORDANCE WITH APPROVAL GRANTED BY THE EA.

KEY:

- SW SEWER
- FW SEWER
- PROPOSED LAND DRAINAGE
- EXISTING PUBLIC FW SEWER
- PROPOSED FW DIVERSION
- SW DRAGOUT
- FW DRAGOUT
- GULLY
- PROPOSED CULVERTED WATERCOURSE
- GAS MAIN (APPROXIMATE LOCATION)
- EXISTING WATERCOURSE
- EXISTING CULVERT TO BE ABANDONED

TOTAL WORST CASE VOLUME OF FLOODING INDICATED UPSTREAM OF PIPE NUMBER 1.000 ON MICRODRAINAGE SIMULATION RESULTS IS SHOWN ON THE 1 IN 200 YEAR + 40% CLIMATE CHANGE 480 MINUTE STORM EVENT.
49.971m³ OF FLOOD WATERS WILL FOLLOW THE ROAD CONTOURS TO THE CARRIAGEWAY LOW POINT. LOW POINT AREA INDICATED IN BLUE PROVIDES 9.689m³ OF STORAGE WITHIN CARRIAGEWAY BEFORE FLOOD WATERS OVER SPILL THE KERBS, AND TRAVELS TO THE PROPOSED ATTENUATION POND AND ADDITIONAL AREA OF EXCEEDANCE.

TOTAL WORST CASE VOLUME OF FLOODING INDICATED UPSTREAM OF PIPE NUMBER 1.000 ON MICRODRAINAGE SIMULATION RESULTS IS SHOWN ON THE 1 IN 200 YEAR + 40% CLIMATE CHANGE 15 MINUTE STORM EVENT.
8.961m³ OF FLOOD WATERS WILL FOLLOW THE ROAD CONTOURS TO THE CARRIAGEWAY AND PRIVATE ROAD LOW POINTS. FLOODED VOLUME WILL BE CONTAINED IN THE ROAD SURFACE AND RE-ENTER THE DRAINAGE SYSTEM VIA GULLIES AT THE LOW POINT WHEN THE STORM SUBSIDES. ROAD AREA INDICATED IN BLUE PROVIDES 13.052m³ OF STORAGE WITHIN CARRIAGEWAY BEFORE FLOOD WATERS ENCOACH PRIVATE PROPERTIES. THEREFORE, NO PRIVATE PROPERTIES AT FLOODING RISK.

LOW POINT OF ENTIRE DRAINAGE SYSTEM AT ATTENUATION POND. PROPOSED AREA OF EXCEEDANCE. PROPOSED GULLY TO DRAIN FLOOD WATER BACK TO WATERCOURSE

AREA OF EXCEEDANCE

PO2 03.03.22	Updated to LCC comments	M.A./R.A.
PO1 30.08.22	Issued for INFORMATION	J.C./R.A.
Rev	Date	Description

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Project Name
HAWTHORNE FARM CLITHEROE

Client
PERSIMMON HOMES

Designed: R.A. Drawn: J.C. Checked: R.A. Scale: @1:250

Drawing Title
EXCEEDNACE ROUTES LAYOUT

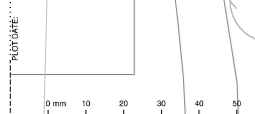
Project No.
19310

Drawing No.
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