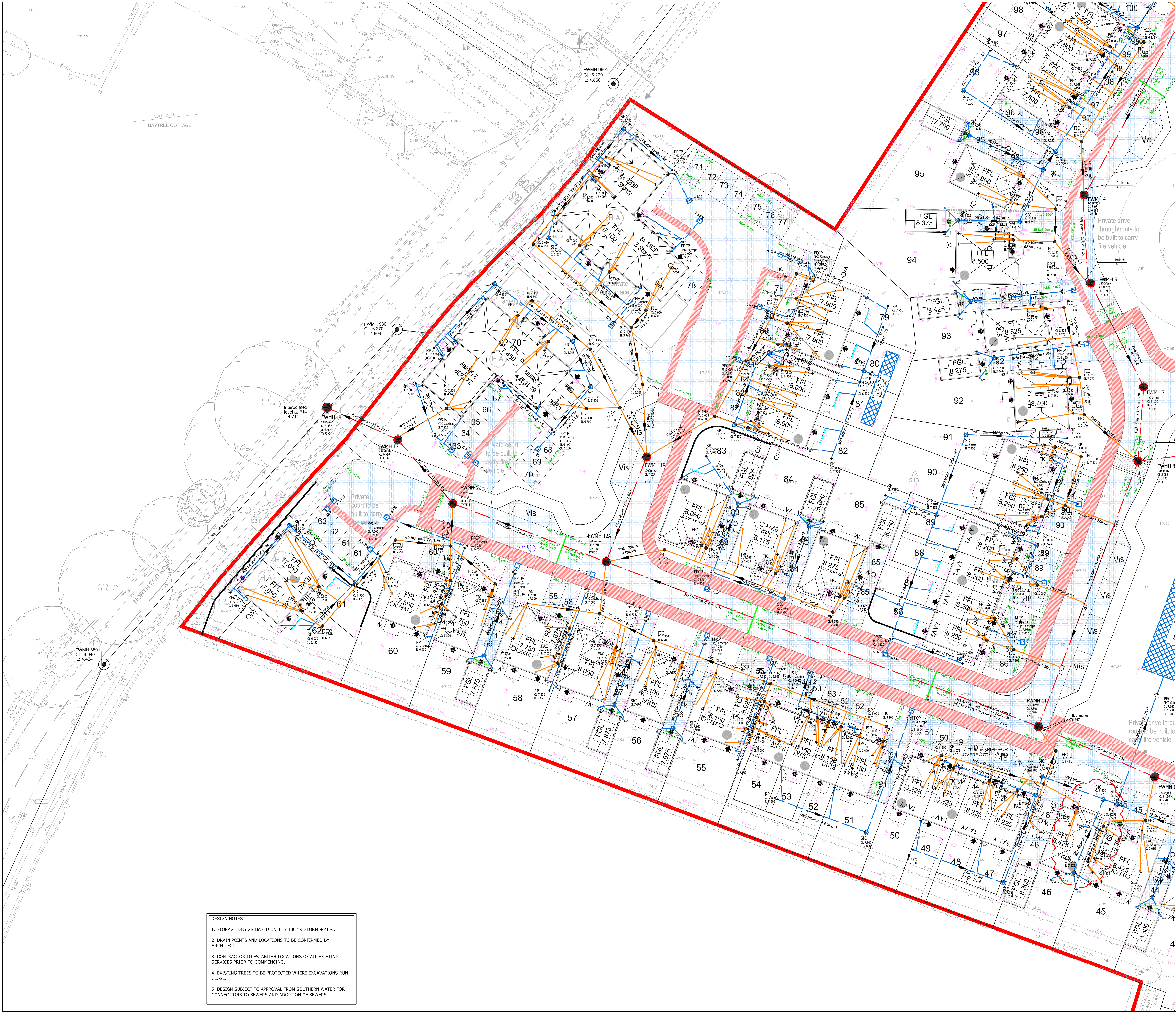




GENERAL NOTES:

- All dimensions to be checked on site. All details and dimensions relating to sub-contractors or suppliers must be checked and agreed between the sub-contractor or supplier and the main contractor.
- This drawing is to be read in conjunction with all relevant architects, services and engineers drawings and specifications.
- The location, size, depth and identification of existing services that may be shown or referred to on this drawing have been assessed from on-site observations, record drawings or the like. The contractor shall verify the location, size, depth and identification of existing services by carrying out suitable investigations, trial holes or soundings prior to commencing work to satisfy himself that it is safe to proceed and that the assessments are accurate. Any discrepancies shall be notified to the client prior to works commencing.
- Tender or taking drawings shall not be used for construction or the opening of materials.
- Do not scale. All dimensions and levels to be by confirmed.
- Copyright: This drawing must not be copied, amended nor reproduced without the prior written agreement of the client.

KEY

- Private surface water drain
- Private foul drain
- Adoptable foul sewer
- FIC Foul Plastic Inspection Chamber - D202.6
- SIC Surface Water Plastic Inspection Chamber - D202.6
- 300mm diameter Surface Water Access Chamber - D202.18
- 300mm diameter Foul Water Access Chamber - D202.18
- YG Yard gully - 300 x 600mm deep
- RG Private road gully
- FWMH Adoptable Foul water Sewer Manhole
- FO Foul drain point D202.0
- RP Drain rodding point
- SW Drain point for RWP D202.5
- Drainage channel
- 300mm wide x 450mm deep ground filled trench drain
- Area of voided stone under permeable paving - refer to external works layouts for details
- Service margin
- Distribution tank (left) from drainage in permeable paving sub-base
- DT
- Proposed external levels
- PROPOSED PERMEABLE PAVING SUB-BASE INVERT
- CHECK DAM

ABBREVIATIONS

- | ABBREVIATION | DETAIL NUMBER - SEE DRAINAGE DETAIL SHEET             |
|--------------|-------------------------------------------------------|
| D202.0       | FOUL DRAIN                                            |
| SWD          | SURFACE WATER DRAIN                                   |
| FWS          | ADAPTABLE FOWL WATER SEWER                            |
| SWP          | ADAPTABLE SURFACE WATER SEWER                         |
| MH           | MANHOLE                                               |
| SA           | SEWER ACCESS                                          |
| SC           | 450mm DIA. FOWL INSPECTION CHAMBERS - D202.6          |
| SIC          | 450mm DIA. SURFACE WATER INSPECTION CHAMBERS - D202.6 |
| SAC          | 300mm DIA. FOWL ACCESS CHAMBERS - D202.18             |
| SAC          | 300mm DIA. SURFACE WATER ACCESS CHAMBERS - D202.18    |
| CT           | CAST IRON                                             |
| VC           | VERTICALLY CAST                                       |
| CONC         | CONCRETE                                              |
| PCU          | POLYURETHANE CHLORIDE - UNPAINTED                     |
| G            | SMALL GULLY - D202.0                                  |
| YG           | YARD GULLY - D202.2                                   |
| RG           | ROAD GULLY - D202.1                                   |
| OP           | OPEN PIPE DROP                                        |
| DP           | BELOW GROUND DRAIN POINT                              |
| EP           | EXTERNAL ROODING POINT - D202.1                       |
| DT           | SURFACE WATER DISTRIBUTION TANK                       |
| PF           | PERMEABLE PAVING                                      |
| SSL          | STRUCTURAL SLAB LEVEL                                 |
| CL           | COVER LEVEL                                           |
| IL           | INVERT LEVEL                                          |
| SL           | SUMP LEVEL                                            |
| HL           | HIGH LEVEL                                            |
| RD           | ROAD                                                  |
| CBS          | CONCRETE BED & SURROUND                               |
| CLS          | CLASS 5                                               |
| GR           | GRANULAR BED                                          |

SPECIFICATION NOTES

- ALL DRAINAGE SHALL BE CONSTRUCTED AND COMMISSIONED IN ACCORDANCE WITH BS EN 12056-1:2000, BUILDING REGULATIONS DOC. H AND ANY PARTICULAR REQUIREMENTS OF THE BUILDING CONTROL OFFICER.
- DRAINAGE IS TO BE PROVIDED AS D202.0, D202.1 AND D202.2 AS SHOWN ON THE DRAINAGE DETAILS SHEETS.
3. TYPICAL COVER IS THE MINIMUM DEPTH OF COVER OVER THE PIPE COVER AT ANY TIME DURING THE CONSTRUCTION PROCESS.
4. ALL CONCRETE PIPEWORK, MANHOLES AND FITTINGS SHALL BE TO BS 5911 (ALL RELEVANT PARTS). ALL CONCRETE PIPEWORK TO BE TO HIGH STRENGTH.
5. WHERE CONNECTIONS ARE TO BE MADE TO EXISTING MANHOLES, SEWERS, INVERT LEVELS, PIPE SIZES & ORIENTATION SHALL BE CHECKED PRIOR TO THE COMMENCEMENT OF THE WORKS AND ANY VARIANCE REPORTED TO THE ENGINEER IMMEDIATELY.
6. WHERE PIPELINES CROSS, EACH IS TO BE SURROUNDED WITH GRADE 5/4 MASS CONCRETE FOR A DISTANCE NOT LESS THAN 1m CENTRED ON THE CROSSING POINT. LENGTH OF SURROUND TO BE EXTENDED AS NECESSARY TO WITHIN 150mm OF THE NEXT NEAREST FLEXIBLE JOINTS.
7. THE CONTRACTOR IS TO ENSURE THAT PROTECTIVE MEASURES ARE TAKEN TO ENSURE THAT DRAINAGE PIPEWORK AND FITTINGS ARE NOT DAMAGED BY SITE TRAFFIC PRIOR TO OVERSITE FILLING OPERATIONS BEING COMPLETED AROUND BUILDINGS.
8. ALL PRIVATE DRAINAGE PIPEWORK SHALL BE FCGL. ALL ADOPTED DRAINAGE TO BE VC. ALL UNDERBUILDING DRAINS TO BE LAID AT A GRADIENT OF 1:40.
9. WHERE DRAINS PASS THROUGH FOUNDATIONS OR CONNECT TO MANHOLES, FLEXIBLE PIPE JOINTS ARE TO PROVIDED WITHIN 150mm OF THE FACE OF THE STRUCTURE AND WITHIN A FURTHER 150mm TO FORM A FLEXIBLE JOINT.
10. WHERE PIPES PASS THROUGH SCREEN WALLS, FOOTINGS OR RETAINING WALLS, UNITS ARE TO BE PROVIDED.
11. WHERE PIPELINES PASS WITHIN 3m OF BUILDINGS OR WALLS THE FOUNDATIONS ARE TO BE TAKEN DOWN BELOW THE BOTTOM OF THE TRENCH.
12. 450mm DIA. INSPECTION CHAMBERS (FIC/SIC) MAY BE USED - WHERE THE DEPTH FROM COVER TO INVERT DOES NOT EXCEED 600mm AND WHERE THE PIPE SIZE DOES NOT EXCEED 100mm DIA.
13. STEEL COVERS WITHIN PROPERTY BOUNDARIES SHALL BE: - UNLESS NOTED ON DRAWING OR MANHOLE SCHEDULE - ON PRIVATE DRIVEWAYS, FACTA GRADE 8 (BS EN ISO 1461: 1999) - ON PRIVATE PATHWAYS, VERGES OR ON CARPARKS, FACTA GRADE 8 (BS EN ISO 1461: 1999) - ON SHARED PATHWAYS, VERGES: GRADE A15 (BS EN 124:1994)
14. COVER LEVELS SHOWN 'CL' AND INVERT LEVELS SHOWN 'IL' ARE IN METRES ABOVE ORDNANCE DATUM.
15. ALL DRAINS TO BE 100mm DIAMETER UNLESS NOTED OTHERWISE.
16. ALL DRAINS MARKED 'FWS' OR 'SWP' ARE PROPOSED ADOPTED SEWERS AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION, 7TH EDITION.
17. DRAINAGE CONNECTIONS NOT DIRECT TO A CHAMBER TO BE VIA AN OBlique 45° JUNCTION.
18. ALL CONNECTIONS INTO MANHOLES TO BE MADE SOFFIT TO SOFFIT UNLESS NOTED OTHERWISE.

DESIGN NOTES

- STORAGE DESIGN BASED ON 1 IN 100 YR STORM + 40%.
- DRAIN POINTS AND LOCATIONS TO BE CONFIRMED BY ARCHITECT.
- CONTRACTOR TO ESTABLISH LOCATIONS OF ALL EXISTING SERVICES PRIOR TO COMMENCING.
- EXISTING TREES TO BE PROTECTED WHERE EXCAVATIONS RUN CLOSE.
- DESIGN SUBJECT TO APPROVAL FROM SOUTHERN WATER FOR CONNECTIONS TO SEWERS AND ADOPTION OF SEWERS.

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