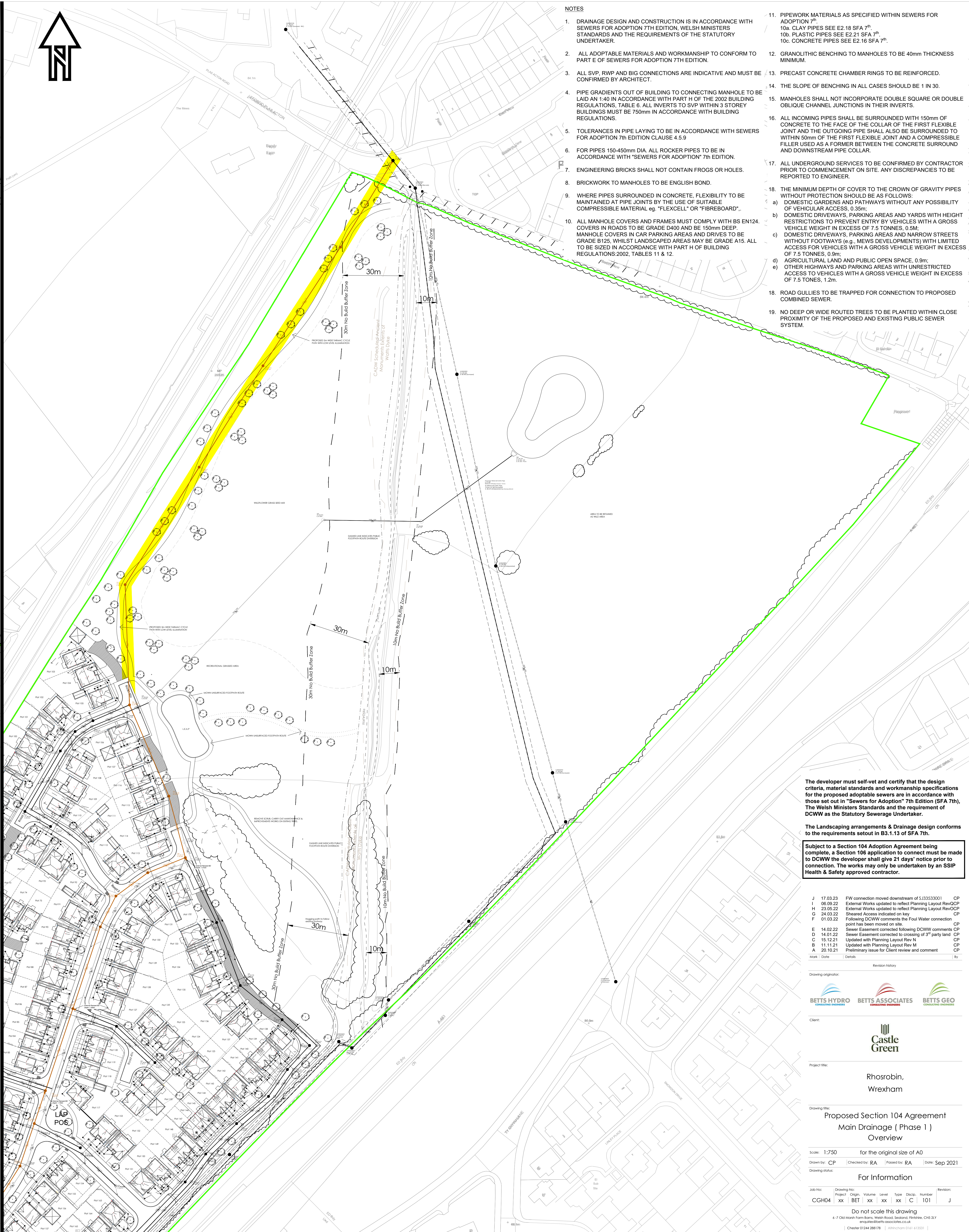
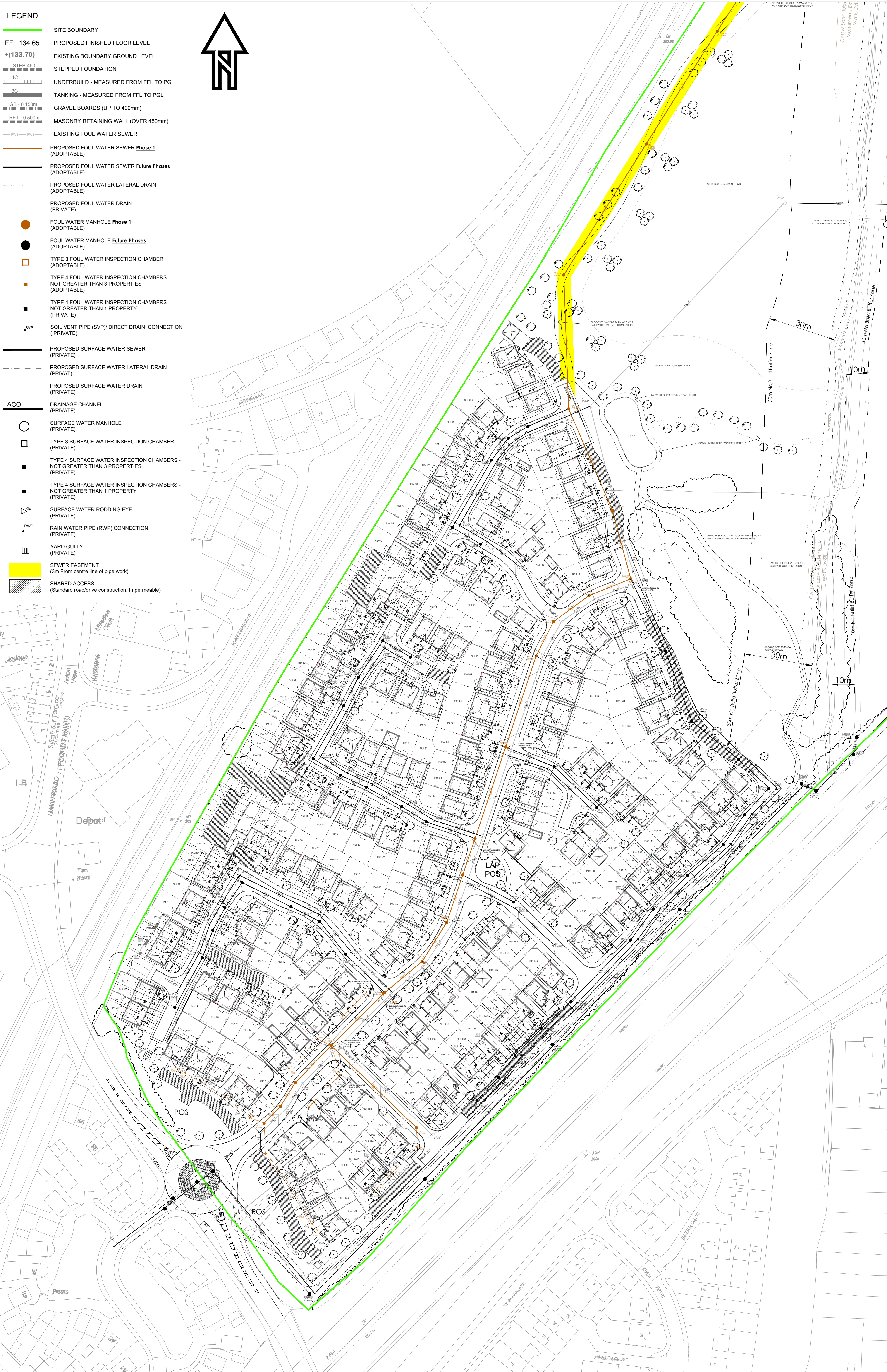




- NOTES**
1. DRAINAGE DESIGN AND CONSTRUCTION IS IN ACCORDANCE WITH SEWERS FOR ADOPTION 7TH EDITION, WELSH MINISTERS STANDARDS AND THE REQUIREMENTS OF THE STATUTORY UNDERTAKER.
 2. ALL ADOPTABLE MATERIALS AND WORKMANSHIP TO CONFORM TO PART E OF SEWERS FOR ADOPTION 7TH EDITION.
 3. ALL SVP, RWP AND BIG CONNECTIONS ARE INDICATIVE AND MUST BE CONFIRMED BY ARCHITECT.
 4. PIPE GRADIENTS OUT OF BUILDING TO CONNECTING MANHOLE TO BE LAID AN 1:40 IN ACCORDANCE WITH PART H OF THE 2002 BUILDING REGULATIONS, TABLE 6. ALL INVERTS TO SVP WITHIN 3 STOREY BUILDINGS MUST BE 750mm IN ACCORDANCE WITH BUILDING REGULATIONS.
 5. TOLERANCES IN PIPE LAYING TO BE IN ACCORDANCE WITH SEWERS FOR ADOPTION 7th EDITION CLAUSE 4.5.9
 6. FOR PIPES 150-450mm DIA. ALL ROCKER PIPES TO BE IN ACCORDANCE WITH 'SEWERS FOR ADOPTION' 7th EDITION.
 7. ENGINEERING BRICKS SHALL NOT CONTAIN FROGS OR HOLES.
 8. BRICKWORK TO MANHOLES TO BE ENGLISH BOND.
 9. WHERE PIPES SURROUNDED IN CONCRETE, FLEXIBILITY TO BE MAINTAINED AT PIPE JOINTS BY THE USE OF SUITABLE COMPRESSIBLE MATERIAL eg. "FLEXCELL" OR "FIBREBOARD".
 10. ALL MANHOLE COVERS AND FRAMES MUST COMPLY WITH BS EN124. COVERS IN ROADS TO BE GRADE D400 AND BE 150mm DEEP. MANHOLE COVERS IN CAR PARKING AREAS AND DRIVES TO BE GRADE B125, WHILST LANDSCAPED AREAS MAY BE GRADE A15. ALL TO BE SIZED IN ACCORDANCE WITH PART H OF BUILDING REGULATIONS 2002, TABLES 11 & 12.
 11. PIPEWORK MATERIALS AS SPECIFIED WITHIN SEWERS FOR ADOPTION 7th:
10a. CLAY PIPES SEE E2 18 SFA 7th
10b. PLASTIC PIPES SEE E2 21 SFA 7th
10c. CONCRETE PIPES SEE E2 16 SFA 7th.
 12. GRANULITHIC BENCHING TO MANHOLES TO BE 40mm THICKNESS MINIMUM.
 13. PRECAST CONCRETE CHAMBER RINGS TO BE REINFORCED.
 14. THE SLOPE OF BENCHING IN ALL CASES SHOULD BE 1 IN 30.
 15. MANHOLES SHALL NOT INCORPORATE DOUBLE SQUARE OR DOUBLE OBLIQUE CHANNEL JOINTS IN THEIR INVERTS.
 16. ALL INCOMING PIPES SHALL BE SURROUNDED WITH 150mm OF CONCRETE TO THE FACE OF THE COLLAR OF THE FIRST FLEXIBLE JOINT AND THE OUTGOING PIPE SHALL ALSO BE SURROUNDED TO WITHIN 50mm OF THE FIRST FLEXIBLE JOINT AND A COMPRESSIBLE FILLER USED AS A FORMER BETWEEN THE CONCRETE SURROUND AND DOWNSTREAM PIPE COLLAR.
 17. ALL UNDERGROUND SERVICES TO BE CONFIRMED BY CONTRACTOR PRIOR TO COMMENCEMENT ON SITE. ANY DISCREPANCIES TO BE REPORTED TO ENGINEER.
 18. THE MINIMUM DEPTH OF COVER TO THE CROWN OF GRAVITY PIPES WITHOUT PROTECTION SHOULD BE AS FOLLOWS:
a) DOMESTIC GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS, 0.35m;
b) DOMESTIC DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.5m;
c) DOMESTIC DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTWAYS (e.g., MEWS DEVELOPMENTS) WITH LIMITED ACCESS FOR VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 0.8m;
d) AGRICULTURAL LAND AND PUBLIC OPEN SPACE, 0.8m;
e) OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, 1.2m.
 19. ROAD GULLIES TO BE TRAPPED FOR CONNECTION TO PROPOSED COMBINED SEWER.
 20. NO DEEP OR WIDE ROUTED TREES TO BE PLANTED WITHIN CLOSE PROXIMITY OF THE PROPOSED AND EXISTING PUBLIC SEWER SYSTEM.

The developer must self-certify and certify that the design criteria, material standards and workmanship specifications for the proposed adoptable sewers are in accordance with those set out in "Sewers for Adoption" 7th Edition (SFA 7th), The Welsh Ministers Standards and the requirement of DCWW as the Statutory Sewerage Undertaker.

The Landscaping arrangements & Drainage design conforms to the requirements set out in B3.1.13 of SFA 7th.

Subject to a Section 104 Adoption Agreement being completed, a Section 106 application to connect must be made to DCWW the developer shall give 21 days' notice prior to connection. The works may only be undertaken by an SSIP Health & Safety approved contractor.

J	17.03.23	FW connection moved downstream of S33333001	CP
I	06.09.22	External Works updated to reflect Planning Layout Rev02	CP
H	23.05.22	External Works updated to reflect Planning Layout Rev02	CP
G	24.03.22	Shared Access indicated on key	CP
F	01.03.22	Following DCWW comments the Foul Water connection point has been moved on site	CP
E	14.02.22	Sewer Easement corrected following DCWW comments	CP
D	14.01.22	Sewer Easement corrected to crossing of 3rd party land	CP
C	15.12.21	Updated with Planning Layout Rev N	CP
B	11.11.21	Updated with Planning Layout Rev M	CP
A	20.10.21	Preliminary issue for Client review and comment	CP

Main: DCWW
Details: CP
Revision history: By

Drawing originator:



Client:



Project title:

Rhosrobin, Wrexham

Drawing title:

Proposed Section 104 Agreement
Main Drainage (Phase 1)
Overview

Scale: 1:750 for the original size of A0

Drawn by: CP Checked by: RA Plotted by: RA Date: Sep 2021

Drawing status:

For Information

Job No:	Drawing No:	Project:	Design:	Volume:	Level:	Type:	Date:	Number:	Revision:
CGH04	xx	BET	xx	xx	xx	C	101	J	

Do not scale this drawing

© 2021 Castle Green
Castle Green
01244 288178 | 01244 288179 | 01244 288180