SURFACE COURSE :- 45mm thick min Hot Rolled Asphalt (HRA 35/14F SURF 40/60 DES) Surface Course with 20mm pre-coated Red aggregate chippings. (Alternative and less stiffer mixes may be permitted depended on laying conditions/constraints). No Limestone Aggregate. Grade of Binder 100/150.

BINDER COURSE :- 60mm thick AC20 Dense BIN 100/150 (to BS EN 13108-1:2006). Crushed rock aggregate (20mm Nominal). Grade of Binder 100/150

BASE COURSE :- 90mm thick AC32 Dense Base 100/150 (to BS EN 13108-1:2006). Crushed rock aggregate (32mm Nominal). Grade of Binder 100/150.

SUB-BASE :- 255mm thick Type 1 (subject to CBR values), to Clause 803.

CAPPING LAYER :- Capping thickness to be established following completion of CBR's . Capping thickness to be agreed prior to construction

Surface Course - 80mm Marshalls Priora pecast concrete block (or similar approved)

Laying Course - 50mm granite grit

Base (roadbase) - 125mm asphalt concrete (prior to final laying of blocks, to be cored with 75mm holes at 750mm centres in a staggered grid, filled with granite grit)

Sub-base - 200mm Type 3 or similar approved

Geogrid with 300mm overlaps

REF:- BN2 Detail 'B'
125 x 255 bullnosed kerb to BS7263: Part 1 laid flush upside down with 150mm ST4 concrete bed and haunch

2.00m
(Service Corridor)

0.450

0.450

0.87

1.82m

Site-won fill
(if suitable for re-use)

0.89

depth varies along road due to varying site lift above existing levels (typically 0.200m)

Concrete Bed and Hunch to extend 150mm below the Capping layer

Geomembrane (Impermeable)

Link between Sub-base Structures Twin 225Ø pipes

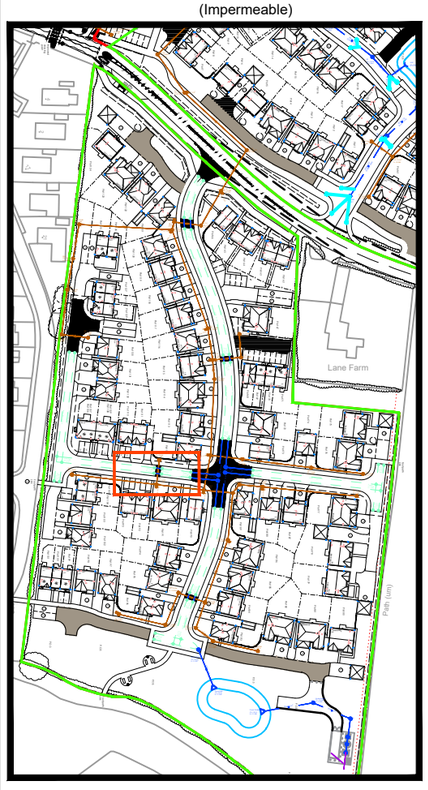
Existing ground (un-disturbed)

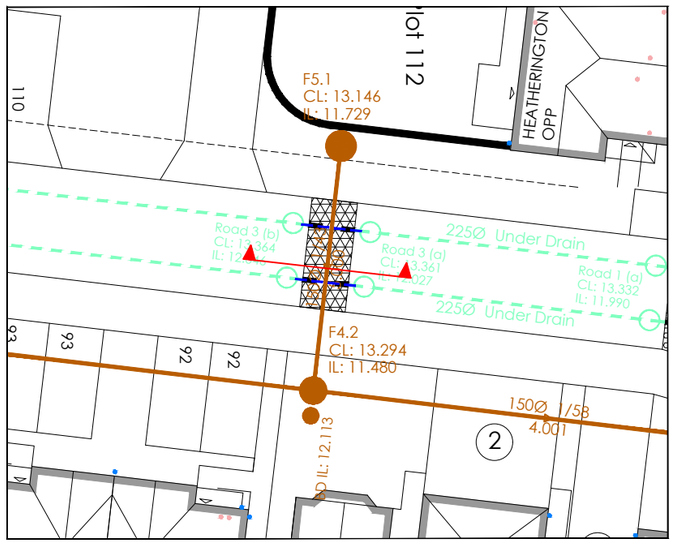
0.15m

Proposed Section 104 foul water sewer wrapped with impermeable geomembrane (shown at indicative depth)

Key

- Groundwater
- 1m above Groundwater
- Impermeable Membrane
- Permeable Membrane
- Geogrid





LEGEND

- SURFACE WATER SEWER (PRIVATE - SAB)
- SURFACE WATER MANHOLE (PRIVATE - SAB)
- FOUL WATER SEWER (ADOPTABLE - DCWW)
- FOUL WATER MANHOLE (ADOPTABLE - DCWW)
- PERMEABLE ROAD CONSTRUCTION (PRIVATE)
- IMPERMEABLE/STANDARD ROAD CONSTRUCTION (DCWW SERVICE CORRIDORS)
- IMPERMEABLE/STANDARD ROAD CONSTRUCTION

All private drives to be impermeable, standard construction

Mark	Date	Details	By
E	28.11.23	Underdrain Inspection Chambers Indicated	CP
D	09.10.23	Updated following comments from SAB@Wrexham.	CP
C	21.08.23	Road construction changed to be impermeably lined	CP
B	15.02.23	Updated for SAB submission	CP
A	13.07.22	Preliminary issue for DCWW review and comment	CP

Revision history

Drawing originator:

BETTS ASSOCIATES
CONSULTING ENGINEERS

Client:

Castle Green

Project title:

Rosset Road,
Rossett

Drawing title:

DCWW Service Corridor
Construction Detail
F5.1 - F4.2

Scale: 1:20 for the original size of A3

Drn by: CO | Chkd by: RA | Passed by: RA | Date: July 2022

Drawing status:

For Approval

Job No:	Drawing No: Project	Origin.	Volume	Level	Type	Discip.	Number	Revision:
CAS02	xx	BET	xx	xx	xx	C	234	E

Do not scale this drawing

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