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

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

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

Geogrid with 300mm overlaps

3.50m
(Service Corridor)

0.450

0.89

0.450

0.89

Geomembrane (Impermeable)

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

Concrete Bed and Hunch to extend 150mm below the pipe work

Link between Sub-base Structures Twin 225Ø pipes

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

3.27m

Existing ground (un-disturbed)

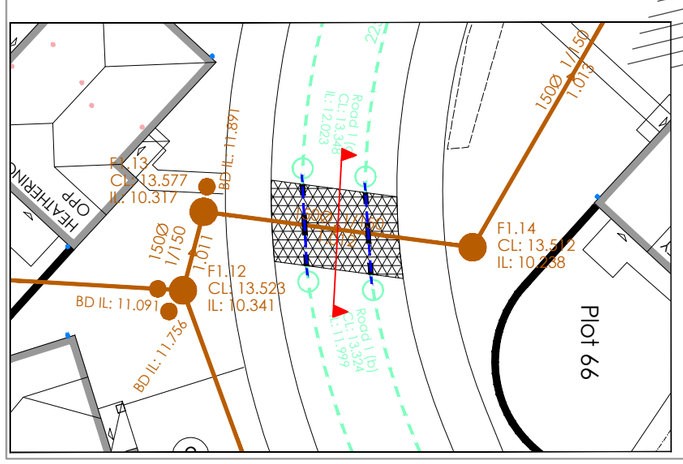
Existing ground (un-disturbed)

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

0.15m

Key

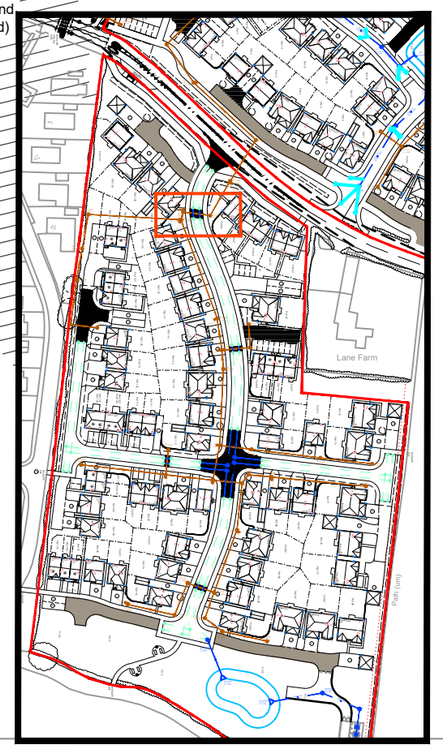
- Groundwater
- 1m above Groundwater
- Impermeable Membrane
- Permeable Membrane
- Geogrid



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
F1.13 - F1.14

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	230	E

Do not scale this drawing

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