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DRAINAGE NOTES:

1. All sewers to comply with the requirements of Design and Construction Guidance together with the Water Authority. All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
2. Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
3. All manhole ironworks to comply with BS EN124, and be stamped with BSI Kitemark. Covers to suit loading as below;
   - -Carriageways and Roads - D400
   - -Driveways and Verges - C250
   - -Footways and Pedestrian Areas - B125
   - -Gardens/Landscaping - A15
4. All sewer pipes, up to, and including 225mm are to be vitrified clay to BS EN295. All sewer pipes 300mm diameter and above to concrete pipes to BS EN1916.
5. All drainage shall be installed and tested strictly in accordance with the Manufacturers' printed instructions, BS EN 752, BS EN 1601, Local Water Authority requirements and the Building Regulations.
6. All bedding shall be Class S unless noted otherwise.
7. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
8. Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. Drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
9. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
10. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
11. All gully connections to use a minimum diameter pipe of 150mm and to be surrounded by a minimum of 150mm of grade C8/C10 concrete over its full length (which should not exceed 15m) and its connection to the carrier system.
12. All laterals to be 150mm laid at 1:80 (surface), 1:60 (foul) unless otherwise noted.
13. All drainage to be in accordance with Document H of the Building Regulations, together with NHBC Standards Chapter 5.3 & BS8301.
14. All private drains to be 100mm diameter unless stated otherwise.
15. Where pipes pass through footings, retaining or screen walls, lintels to be provided over drains.
16. Where inverts are less than 0.6m deep, inspection chambers (min dia 190mm) or access fittings (225x100mm) to be used, elsewhere proprietary plastic, brick or pcc ics to be used (sized in accordance with table 11 of Approved Document H).
17. All gullies connected direct to drains to be roddable.
18. Rainwater downpipes to be easily removable for rodding or to be provided with rodding access at ground level.
19. Unless noted otherwise FW ICs & REs to be 0.6m below DPC level, SW ICs & REs to be 0.45m.
20. Adequate precautions in accordance with Approved Document H and manufacturer's recommendations to be taken to protect drains (particularly plastic) at shallow depths.

Site to discharge via sewer requisition to existing Wessex Water Manhole 7201.

Manhole to contain 2 Hydro-brakes to restrict flows to a 20% betterment of greenfield runoff rates for all storms up to and including the 1 in 100 year event with a 45% allowance for climate change

Flows restricted to 2.5 l/s for the 1 in 30 year plus CC event & 3.1 l/s for the 1 in 100 year plus CC event.

1st Hydro-brake
Design Depth: 1.1m
Design Flow: 1.1l/s
Product Code:
SHE-0048-1100-1100-1100
Invert Level: 36.175

2nd Hydro-brake
Design Depth: 0.4m
Design Flow: 1.0l/s
Product Code:
SHE-0055-1000-0400-1000
Invert Level: 37.37

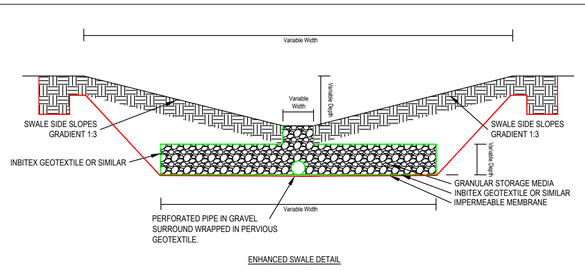
6m x 40m x 1.2m deep granular storage to attenuate and treat all surface water runoff from the site

1m deep enhanced swale with 1 in 3 slopes above 8m x 62m x 0.9m deep granular storage to attenuate and treat all surface water runoff from the site

1m deep enhanced swale, 1 in 3 slopes above 45m x 4m x 0.7m deep granular storage to attenuate and treat all surface water runoff from the site

Proposed gravity foul connection to Wessex Water Foul Manhole 2802.

WESTERN WAY
ASH GROVE
HORNBEAM CRESCENT
LINDEN GROVE
TOWNSEND FARM
North Townsend Farm
South Townsend Farm
Ppg Sta



ENHANCED SWALE DETAIL

DRAINAGE KEY

- Proposed drain & MH
- Catchpit Manhole with flow restirction device
- Catchpit Manhole
- Concrete Protection
- Highway gully and 150mmØ connection
- Granular storage
- 38.95 Indicative Finished Floor Level

0 5 10 15 20 25m
Scale 1:500

Rev	Date	Description	Drawn	Checked
G	06.23	Updated following latest LLFA comments	LC	JS
F	06.23	Updated to suit latest layout	LC	SM
E	04.23	Drawing updated to suit layout	LC	JS
D	02.23	Scale bar added	AM	JS
C	01.23	Updated to suit latest layout	CB	JS
B	09.22	Updated to suit latest layout	JS	SL
A	09.22	First Issue	JS	SL

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Client
LIVING SPACE HOUSING

Project
SEMINGTON ROAD
MELKSHAM

Title
PH1 RESERVED MATTERS
DRAINAGE STRATEGY

Status
FOR APPROVAL

Scale	Date	Drawn	Checked
1:500 @ A1	FEB 2023	JS	SL

Drawing No: A380-RM-PH1-50
Revision: G