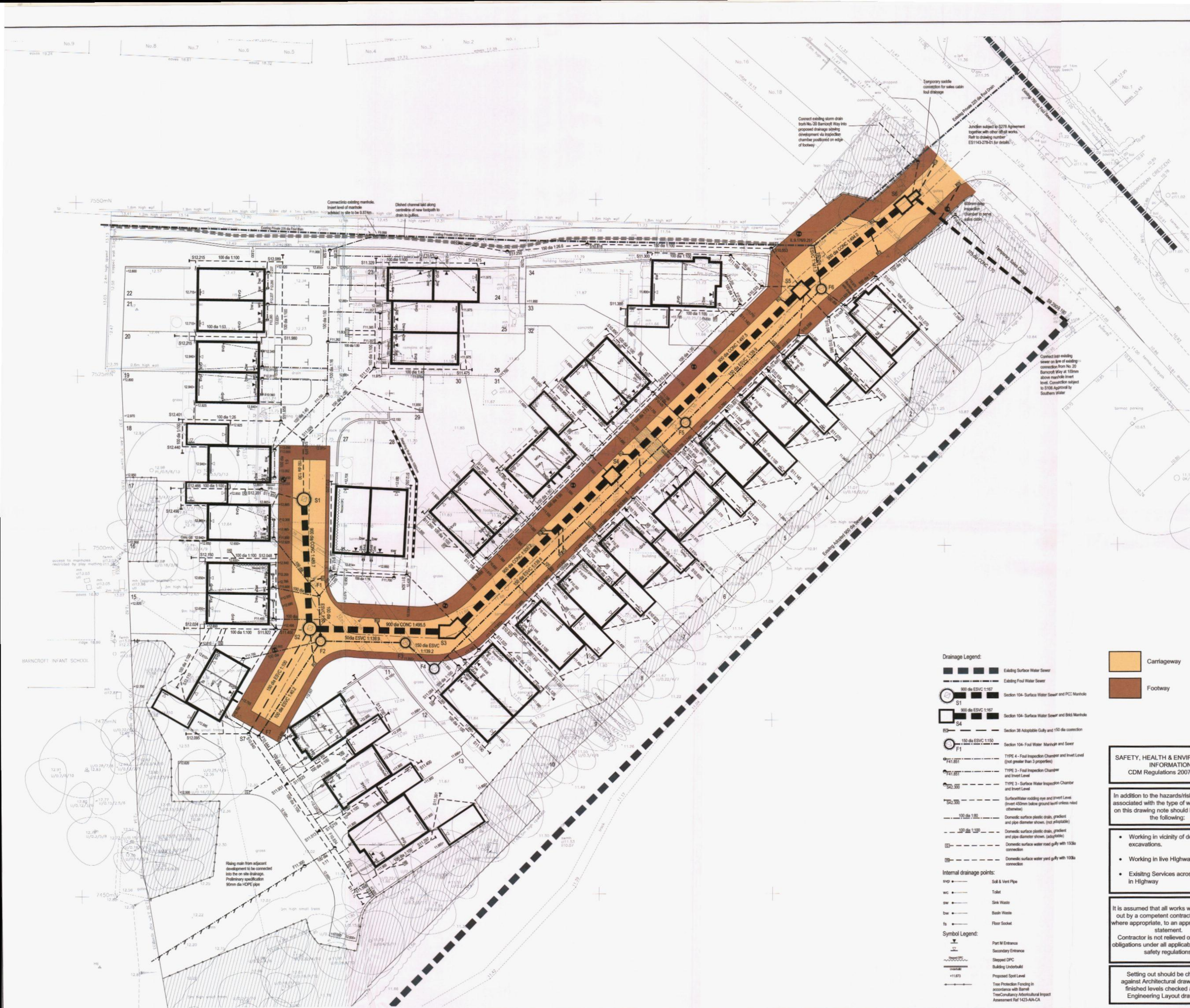




- Notes:
1. All levels are in metres above Ordnance Datum.
 2. All Highway works to be undertaken shall be to the satisfaction of the Highway Authority Inspector and in accordance with the Specification for Highway Works. Works on or adjacent to existing public highway shall be executed in accordance with the Traffic Safety Code for Roadworks and Chapter 8 of the Traffic Signs Manual.
 3. At the commencement of works on site the contractor is to carry out trial pits and follow with Utility Companies in order to establish the exact position of all existing statutory utility plant in the vicinity of works and take adequate precautions to protect them.
 4. The Contractor is to comply fully with the CDM Regulations in the course of constructing the works.
 5. Any Highway or drainage works constructed prior to issue of Technical Approval is entirely at the risk of the Contractor/Client.
 6. Highways in the vicinity of the works must be kept free from mud, debris and dust falling from vehicles or the wheels of vehicles connected with the works.
 7. The Contractor shall ascertain the CIR of the subgrade in order to determine the required sub-base / capping material.
 8. Prior to laying any material the subgrade must be inspected and any soft spots removed and filled with SP2 capping material.
 9. Prior to construction of any drainage works, the Contractor is to confirm the invert levels of existing manholes and sewers. Any variations from the designed levels shown on the drawings shall be reported to the Engineer in advance of construction works commencing.
 10. All excavation and backfilling work in the existing Highway to be in accordance with the provisions of the New Street Works Act 1991 or that specified within the Working Drawings.
 11. All adoptable drainage works must comply with 'Sewers for Adoption 7th Edition' and to the satisfaction of Southern Water.
 12. All adoptable drainage pipes shall have 360° Class 5 granular bed and surround. However, any pipes below the adoptable carriageway with less than 1.2m of cover (600mm in verge and untrunked areas), shall be Class 2 surrounded with 150mm of ST4 concrete with flexible joints.
 13. All drain and sewer pipes to be laid soft to stiff, unless shown otherwise.
 14. Sewer trench backfill to be in accordance with the Adoptable Drainage Details.
 15. Gullies, gully connections, drains, manholes, catchpits, soakways, headwalls, and other drainage structures intended to convey only highway water are to be constructed in accordance with the specifications of West Sussex County Council and to the satisfaction of the Highway Inspector. Gullies/soakways channels to be used on all driveways and untrunked parking areas which fall towards the highway to intercept surface water run off and connected to the domestic surface water system. Where block paved areas fall towards building a 100mm filter supported drain is to be connected to private drainage system.
 16. Minimum gradient for 1000 SW to 1:100 and 1500 FW to 1:80 with one WC connected otherwise 1:40. Bedding for domestic drainage Class 5. All pipes runs near buildings to comply with the Building Regulations 2002 Part H1.
 17. All private lateral connections to public sewers shall be 150mm unless shown otherwise.
 18. Position of soil pipes, standing wastes, etc. are shown on the Architect's working drawings. Rainwater downpipe positions are to be checked against Architect's details to ensure compatibility. Rainwater downpipes to have nesting access facilities where surface water drainage passes under buildings.
 19. All concrete and concrete products to be in accordance with BRE 363 for sulphates.
 20. All slab levels shown are for guidance only and may need to be adjusted on site, subject to approval by the engineer.
 21. Do not scale from this drawing, work only from stated dimensions or setting out details.
 22. For manhole type and covers refer to manhole schedule and standard details.

- Drainage Legend:
- Existing Surface Water Sewer
 - Existing Foul Water Sewer
 - 100 dia ESWC 1:150 Section 104-Surface Water Sewer and PCC Manhole
 - 150 dia ESWC 1:150 Section 104-Surface Water Sewer and Brick Manhole
 - 150 dia ESWC 1:150 Section 38 Adoptable Gully and 150 dia connection
 - 150 dia ESWC 1:150 Section 104-Foul Water Manhole and Sewer
 - TYPE 4-Foul Inspection Chamber and Invert Level (not greater than 3 properties)
 - TYPE 3-Foul Inspection Chamber and Invert Level
 - TYPE 3-Surface Water Inspection Chamber and Invert Level
 - Surface Water clogging eye and invert level (Invert 450mm below ground level unless noted otherwise)
 - 100 dia 1:100 Domestic surface plastic drain, gradient and pipe diameter shown, (not adoptable)
 - 150 dia 1:100 Domestic surface plastic drain, gradient and pipe diameter shown, (adoptable)
 - Domestic surface water road gully with 150dia connection
 - Domestic surface water yard gully with 100dia connection
- Internal drainage points:
- svp Soil & Vent Pipe
 - wc Toilet
 - sw Sink Waste
 - bw Basin Waste
 - fs Floor Socket
- Symbol Legend:
- Part M Entrance
 - Secondary Entrance
 - Stepped DPC
 - Building Underbuild
 - Proposed Spot Level
 - Tree Protection Fencing in accordance with Natural Tree Consultancy Arboricultural Impact Assessment Ref 1423-AIA-CA

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
CDM Regulations 2007: Reg 11

In addition to the hazards/risks normally associated with the type of work detailed on this drawing note should be made of the following:

- Working in vicinity of deep excavations.
- Working in live Highway
- Existing Services across site and in Highway

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Contractor is not relieved of any of his obligations under all applicable health and safety regulations.

Setting out should be checked against Architectural drawings and finished levels checked against Engineering Layout drawings.



Rev		08.07.15	Initial Issue	KAM
Rev		08.07.15	Details	15/08/15
Drawing Title				
PRELIMINARY				
Project				
Barncroft Way Havant				
Client				
Bellway Homes				
Drawing Title				
Engineering Details Road Layout				
Drawn	Checked	Scales	Paper Size	Date
MRH	KAM	1:250	A1	08.14
Job No.	Drawing No.	Revision		
ES1423	1423-510-07	A		