LEGEND:

Existing Adopted Sewers
- Existing Foul
- Existing Storm
- Existing drainage to be removed

Private Storm Drainage
- S3 — Type 3 Inspection chamber (min450Ø)
- S4 — Type 4 Inspection chamber (min1800Ø)
- RE — Surface water rodding eye
- RG — Road gully
- YG — Yard gully
- PSA — Private precast concrete ring soakaway
- Private trench soakaway
- ACO — ACO channel

Highway Drainage for Adoption
- HW — Highway pc ring manhole
- RG — Road gully
- HWSA — Highway soakaway
- Highway drainage swale

Private Foul Drainage
- Proposed foul water pipe

Foul Sewers for Adoption
- F01 Backdrop — Foul pc ring manhole
- F3 — Type 3 Inspection chamber (min450Ø)
- F4 — Type 4 Inspection chamber (min1800Ø)

- Services Strip
- Tree protection zone
- Existing water main to be retained and easement

NOTES:
For drainage construction details see drawing 22067/500-505
For manhole and soakaway schedules see drawing 22067/226

DRG No 221 DRG No 222 DRG No 223 DRG No 224

KEY PLAN

NOTES:

1. All dimensions to be checked on site. All details and dimensions relating to sub-Contractors work must be checked and aggreed between the sub-Contractor or supplier and the general Contractor.

2. This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and specification.

3. The main Contractor is responsible for ensuring the stability of the structure whilst the works are in progress.

4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority.. No liability is accepted by the Consultant and the main Contractor is responsible for obtaining and checking all information and taking due care and attention whilst undertaking the works.

5. All pipes, bends and junctions shall be vitrified clay to BS EN 295-1, with flexible joints and kitemark certified. Alternatively all pipess and fittings can be UPVC conforming to BS EN 1401-1 and shall be laid in accordance with the manufacturers specification. If UPVC pipes are to be used then the manufacturer shall be approved by the Engineer prior to construction.

6. All Adoptable sewers shall be in strict accordance with the current edition of Sewers For Adoption. Unless otherwise stated adoptable sewers shall be 150mm diameter and shall be laid in a class S bedding. Where the depth to soffit is less than 1.2m under a public highway or 0.9m elsewhere the pipe shall be laid with a class Z bedding.

7. All private building drainage shall be constructed in strict accordance with BS EN 752:1996. Unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of 1 in 40 for foul drains and 1 in 80 for surface water drains. All building drains shall be laid in class B bedding unless otherwise specified.

8. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN 3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN 3 concrete to a level below the lowest level forr the foundation, equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick classs GEN 3 concrete.

9. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN 3 concrete encasement (150mm thick). In all other cases the pipes shall be bedded and surrounded with 100mm thick granular material.

10. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibreboard or polystyrene) shall be provided at a maximum of 6m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.

11. All svps shall have rodding access plates fitted at their bases (ground floor level).

12. Where existing pipes are to be abandoned they shall be dug out together with any abandoned manholes.

REV	DATE	INT	DESCRIPTION	CHK
D	02.09.14	AJD	Drainage updated to suit new tree layout	
C	06.08.14	AJD	Drainage updated to suit 'Value Engineering' comments. Site layout updated to suit current external works	
B	22.07.14	AJD	Highway drainage design and private trench soakaway size updated to suit new soakage rate.	
A	17.06.14	AJD	Drainage updated	

Issue Status: TENDER

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the Civil Engineering Practice

CLIENT: Barratt David Wilson Southampton

PROJECT: Swanbourne Park
Angmering

TITLE: Site Layout
Proposed Drainage
Sheet 4 of 4

DRAWN	DATE	PROJECT NO
A Davies	May 2014	22067
ENGINEER	CHECKED	DWG No / REV
A French		224 D
SCALE		
1:250 @ A1		