SUBJECT TO THE APPROVAL OF:
LPA
BUILDING CONTROL/NHBC

Subject to confirmation of the following:
Detailed Plot Construction Drawings
SVP/AAV/RWP positions
PIL and positions of Ex SWS & FWS

NOTE THE FOLLOWING:

Southern Water Agreements

1. Section 106 Foul Sewer Connection
1.1. SW Ref S106-010752 dated 04/12/17
1.2. Direct connection to off site FWS - FW1

2. Section 106 Storm Sewer Connections
1.1. SW Ref S106-010752 dated 04/12/17
1.2. Direct connection to off site SWS - SW1

2. Section 104 New Storm Water Sewer SWS1-SWS3
2.1. SW Ref S104-002057 dated 08/11/17

CCTV Report
3. Refer to drawing FC2718/01

El Sub Sta

EX FWS MH
SW Ref: 7201
CL 3 tbc
IL 0.38 tbc
300Ø CP FWS - tbc
MH Position shown approx

EX SWS MH
SW Ref: 7251
CL 3.11 tbc
IL 1.1 tbc
300Ø VC SWS - tbc
MH Position shown approx

EX FWS MH
SW Ref: 7202
CL 3.11 tbc
IL 1.35 tbc
150Ø VC FWS - tbc
MH Position shown approx

SWS1
New 150Ø VC pipe oblique saddle connection to Ex 675Ø SWS, subject to SW S106 approval
CL 2.68 tbc
PIL 1.28 tbc 150Ø VC SWS
PIL 0.75 tbc 675Ø CP SWS tbc
Position of connection shown approx - tbc on site

EX FWS MH
SW Ref: 7203
CL 3.34
IL 0.45 tbc
300Ø CP FWS - tbc

EX SWS MH
SW Ref: 7252
CL 3.20
IL 0.90 tbc
675Ø CP SWS - tbc

PIL and position of Ex Sewers/Drains to be verified prior to construction

New SWS 'Adopted' to SW S104 Agreement

Proposed Twin SWS 150Ø VC 6m 1:100m Class 2 bed

3.1m

EX FWS MH
SW Ref: 7204
CL 3.12
IL 0.8 tbc
150Ø VC FWS - tbc

Client to confirm the following:
- Ex Drainage as noted is correct by undertaking further CCTV Drainage surveys to validate proposed design assumptions prior to construction
- that they have the legal right to construct off site SW & FW drainage connections as noted on drawings.
- Suggest that the off site SWD is offered for adoption to SW via S104 Agreement.

EX MH
Assumed FWS MH - tbc
SW Ref: SWB1 tbc
CL tbc
IL tbc
100Ø FWS - tbc

Assumed FW system (SWA/B/B1) tbc on site through CCTV survey, assumed to be adopted FWS system if it serves the two dwellings to the south of the planning site (ie Shingle End & Vilhoet)

EX MH
Assumed FWS MH - tbc
SW Ref: SWB tbc
CL 2.74
IL 1.48 (OE confirmed)
100/150 Ø FWS - tbc

SWS3
New Adopted MH
CL 2.75
PIL 1.66 100Ø VC
IL 1.61 tbc
Type 3 IC
C250

GF
FFL 2.90 tbc
SSL 2.75 tbc
uSSL 2.60 tbc
RL 2.30 tbc
TOGB2.00 tbc

RWP Waterbutt

SWD 100Ø VC 3.6m 1:100 min

SWS 150Ø VC 3.3m 1:100 min Class 2 bed

SWS2
New Adopted MH
CL 2.75
IL 1.58 tbc
Type 3 IC
D400

AAV
PIL 2.20

SVP
PIL 2.20

FW2
CL 2.80
IL 2.00
Type 3 IC
C250-Recessed

RWP Waterbutt

Garage FFL 2.75

RWP Waterbutt

SWD 100Ø VC 6.4m 1:100 min

FWD 100Ø VC 6.1m 1:100m Class 2 bed

RE
CL 2.30
PIL 1.90 tbc

SW4
CL 2.72
IL 1.80 tbc
Type 3 IC
C250-Recessed

Note
All RWPs to discharge first to Water Butts fitted with RWP overflow device to convey runoff to below ground drainage system when water butts are full.

FW1
New 100Ø pipe oblique junction connection to Ex FW system - assumed to be adopted FWS - tbc, subject to SW S106 approval
CL 2.70
PIL 1.60 tbc

Assumed FW system (SWA/B/B1) tbc on site through CCTV survey, assumed to be adopted FWS system if it serves the two dwellings to the south of the planning site (ie Shingle End & Vilhoet)

EX MH
Assumed FWS MH - tbc
SW Ref: SWA tbc
CL 2.65
IL 1.67 (OE confirmed)
100Ø FWS - tbc

Assumed adopted FWS system as it serves more than two dwellings, actual route tbc by Southern Water through CCTV survey

EX FWS MH
SW Ref: 7206
CL tbc
IL tbc
100Ø VC CS - tbc
MH Position shown approx

EX FWS
SW Ref:
CL tbc
IL tbc
100Ø VC
MH Posit

1to3 Adelaide

Limpet

Shorthouse

Traverway

Rocklands

Legend

- Existing Foul\Surface Sewer\drain to be retained
- Existing Foul\Surface Sewer\Drain to be abandoned
- Channel Drain
- RG Road Gully
- YG Yard Gully
- RE Rodding Eye
- Foul Sewer/Drain
- SVP/G Soil and Vent Pipe / Gully Connection
- AAV/SS Air Admittance Valve (durgo) / Stub Stack
- FWx FW Type 4 Inspection Chamber (190Ø min)
- FWx FW Type 3 Inspection Chamber (450Ø min)
- FWx FW Type 1/2 Manhole
- Vertical/Ramped Backdrop
- Surface Water Sewer/Drain
- Rainwater Pipe
- Sx SW Type 4 Inspection Chamber (190Ø min)
- Sx SW Type 3 Inspection Chamber (450Ø min)
- SW Type 1/2 Manhole
- BIG Back Inlet Gully
- 10.000 Finished Floor Level

1. SW Design
1.1. Soakaways not viable due to v poor infiltration rates and high GW levels due to proximity to watercourse (Aldingbourne Rife) and Sea, and low site levels
1.2. Therefore proposed connection to SWS which itself discharges to Aldingbourne Rife just downstream of proposed connection.
1.3. Drained area restricted to roof only = 63m²
1.3.1. Equates to runoff = 0.88l/s based on 50mm/hr rainfall intensity
1.4. Discharge runoff rates significantly lower than normally required attenuated flows of 5l/s, therefore no attenuation proposed.
1.5. All RWPs to discharge to rainwater harvesting water butts, for garden irrigation purposes, with overflow devices to on site below ground SW drainage system

2. FW Drainage Design
2.1. 1No Dwelling = 0.046 l/s Peak FW Flow (SFA)

NOTES

1. This drawing is to be read in conjunction with drawing Nos. FC2718/01-25.
2. Existing onsite drainage is shown on drawing FC2718/01.
3. Refer to drawing FC2718/04 for new SWS1-3
4. All adopted drainage and connections to the sewer system are to be constructed in accordance with `Sewers for Adoption' 6/7th Edition or as stipulated in the Southern Water Addendum.
5. Connections to the adopted drainage system are subject to the approval of Southern Water the Drainage Authority. Diverted, divested, build close to/over sewers, and new sewers are subject to SW approval. All other drainage is to remain private.
8. All pipes and fittings to be adopted, or connecting to adopted sewers, and/or situated under highway to be vitrified clay (min 40kN/m) to BS EN 295 & BS65 (SWS only), or Concrete pipes to BE EN 1916 & BS5911:Part 1, or Thermoplastic Structured wall sewer pipes to BS EN 13476-1-4 and WIS 4-35-01 (class 8kN/sqm), or Ductile Iron BS EN 598, and be capable of withstanding 4000 PSI jetting pressure.
9. Cover levels shown are approximate. Covers and frames shall be set to finished ground levels and falls.
10. All drainage to be constructed to BS EN 752:1999 and subject to the approval of Building Control/LPA and the Environment Agency.
11. Gully and channel drain positions are liable to amendment when the design levels have been determined.
12. All downpipes are to be sealed, ie connected directly to the stormwater drain. Access points to be provided 1m above ground level for external RWP's and 1m above FFL for internal RWP's.
13. All below ground concrete to accord with ACEC site classification of AC-1s - tbc refer to Geotechnical Investigation
14. Aco channel drain to be K100S with grade C250 Quicklock 'Heelguard' cast iron grating or equivalent, where adjacent to kerbing or within pedestrian areas. Elsewhere Aco channel drain to be Road Drain 100 Class F. All channel drain outlets to have oil traps
15. The Contractor should construct works in accordance with the Local Authority specification for the works they are to undertake.
16. Road gully pipes are to be 150mm dia. with concrete surround and flexible joints, all other un-referenced pipes are assumed to be 100mm dia.
    FW min gradient - 1 in 40 (100 dia) no WC's connected
    FW min gradient - 1 in 80 (100 dia) min 1 WC connected
    FW min gradient - 1 in 150 (150 dia) min 5WC's
    SW min gradient - 1 in 100 (100/150 dia)
17. If any sub soil drainage systems are uncovered during the Works contact the Engineer for instructions. Generally sub soil drains affected are to be diverted around new Works and connected into the surface water drainage system. Pipe diameters and gradients are to be maintained.
18. Before commencing construction the Contractor must check the invert levels of existing sewers to which connections are made. In addition the Contractor must locate and determine invert levels of the existing spurs to which connections are proposed. Additional spur/manhole connections are to be agreed with the relevant adopting authority. Any discrepancies are to be notified to the Engineer immediately, prior to construction.
19. Road reinstatements are to be to the Highway Authority approval.
20. No private areas are to drain onto adoptable areas and vice versa.
21. All redundant drainage to be abandoned once the Contractor and Client have satisfied themselves that no connections remain live. Drains and sewers less than 1.5m deep which are in open ground should as far as is practicable be removed. Other pipes should be sealed at both ends and at any other point of connection and solidly filled at intervals not exceeding 25m with Class G3 or G4).

REV	DESCRIPTION	DATE
B	SWS3 altered - SW refs added	06/12/17
A	Issued For BUDGET/APPROVAL ONLY	29/09/17
-	Issued For BUDGET/APPROVAL ONLY	08/09/17

abmh
ABMH Civils Ltd
1 The Grove, Felpham, Bognor Regis, West Sussex PO22 7EY
Mark Mob: 07761 950000
Email: mark@abmh.co.uk / Web: www.abmh.co.uk

PROJECT: Plot to Rear of STARRY NOOK SEA ROAD, FELPHAM W SUSSEX, PO22 7AW

DRAWING: PROPOSED DRAINAGE LAYOUT

Prj No. FC2718/02 REV B

SCALE 1:100 DATE SEPT 17 INITIAL MH CHKD -

This drawing is produced using Autocad. Only written dimensions are to be respected
© ABMH Civils Ltd - Title to this drawing remains with ABMH Civils Ltd
Removal of this title block also removes all warranties and infringes copyright

ARUN DISTRICT COUNCIL FP/3031/1/DOC