Existing watercourse to be filled in between points A & B. Excluding root protection areas.

Attenuation Road 8/9
Top of sub base - 9.36m
Maximum formation level - 7.80m
Area of porous paving - 610m²
Drained area - 2,900m²
Discharge rate - 4.8 l/s

750 diameter culvert to be installed to provide drainage route for surface water from tree area in event of flooding.

HW4
Outfall invert level - 7.525
Discharge rate - 4.8 l/s

Wetland Area
To be constructed in accordance with approved and signed Environment Agency environmental permit reference: EPR/GB3598JL

Existing watercourse to be filled in between points A & B. Excluding root protection areas.

Route of proposed footway

Foul Pump Station
Designed to serve Southern area of development and to be sized to cater for emergency storage in accordance with Building Regulations. To be connected to public sewerage system via rising main.

KEY

- Redundant surface water sewer
- Diverted surface water sewer
- Foul water sewer
- Domestic Foul Drain with TYPE 3 Inspection Chamber and Invert Level
- Rising Main
- Pump station
- Domestic Surface Water Drain with TYPE 3 Inspection Chamber and Invert Level
- Domestic Surface Water Plastic Road Gully with 150 dia Plastic pipe
- ST — Silt trap
- GAR — Porous block paving with Wavin Garastor and Stormdiac Distribution chambers.
- Porous block paving with Hoylor Aquavoid traffic units channel at formation level of porous carriageway sub base. Silt traps situated along channel.
- FC — Flow control manhole situated in impermeable carriageway
- Surface water storage tank
- Concrete headwall with outfall connecting to wetland area via gravel filled box flow channels
- Concrete headwall
- Concrete bagwork headwall located in overflow pond.
- LD — Proposed extensions of existing land drains in accordance with drawings approved under Environmental Permit EPR/GB3598JL/L01. Headwalls indicated when draining to wetland area.
- LD — Proposed headwalls to serve existing land drains discharging to wetland area in accordance with approved drawings of Environmental Permit EPR/GB3598JL/L01.
- Flood flow route
- Root protection area

Refer to drawings ES1711-500-04-01 & 02 for construction details.
Wetland area works to be carried out in accordance with Environment Agency environmental permit EPR/GB3598JL/L01.

Rev.	Date	Details	Initials
A	07.04.17	Initial Issue	MRH

Drawing Status: PRELIMINARY

Project: Horndean Road Emsworth

Client: Bellway

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Drawing Title: Engineering Details
Drainage Strategy Sheet 3 of 3

Drawn	Checked	Scales	Paper Size	Date
MRH	KAM	1:250	A0	03.17

Job No.	Drawing No.	Revision
ES1711	500–05–03	A

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