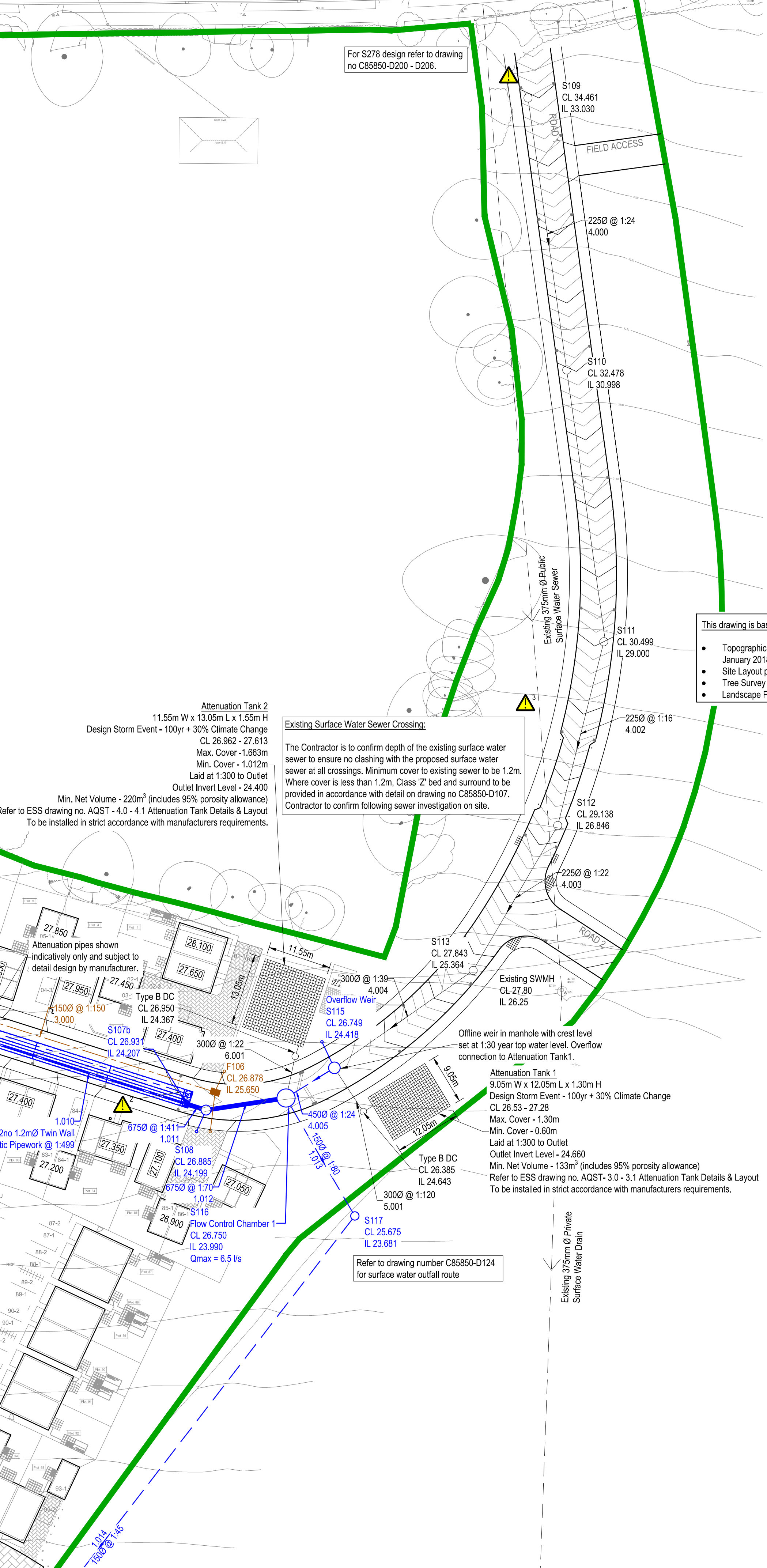


- Drainage & Road Layout Standard Drawing Notes**
- The contractor is to check and verify all buildings, site dimensions and levels, including sewer invert levels, before works start on site.
 - The contractor is to comply in all aspects with the current building legislation, British Standards, building regulations etc.
 - The contractor is to check the level of existing sewers which are to be used as an out-fall prior to commencement of any onsite drainage works. Any discrepancies are to be reported to the Engineer.
 - This drawing is to be read in conjunction with and checked against all other drawings, Engineering Details, specifications and any structural, geotechnical or other specialist document provided.
 - Any anomaly or contradiction between any of the above or difference between actual and drawn details is to be reported to Bellway Homes (Wessex)
 - Drainage to be adopted under Section 104 of the Water Industries Act 1991, shall be constructed and tested in accordance with Sewers for Adoption 6th Edition published by WRC plc and the combined addendum to SFA.
 - Roads, footpaths and parking areas which form part of the highway to be adopted under Section 278 or 38 of the Highways Act 1980 shall comply with the Hampshire County Council's Highway Specification and Standard Details.
 - All substrata structures and unconsolidated material within the road construction width to be removed
 - Formation preparation to be in accordance with Highways Agency Specification for Highway Works (SHW) cl. 616. No prepared formation to be continuously exposed to rain causing degradation below design CBR or to be left uncovered overnight.
 - Any soft, damaged or weak spots including peat contaminated material are to be excavated and replaced with SHW Type 1 in accordance with SHW cl.803 laid and compacted to cl.802, Table B4
 - Where ground conditions are deemed to be frost susceptible, refer to Ground Investigation report, carriageway thickness shall be 450mm minimum thickness. All material within 450mm of road construction to be non-frost susceptible.
 - Positions of existing services/statutory undertaker's apparatus adjacent to or crossing proposed sewers are to be checked by the contractor prior to starting work.
- All adoptable drainage and highway works to be installed in accordance with;
- S104 & S185 Sewers - Sewers for Adoption 6th edition, including all applicable local Southern Water addendums
 - S278 and S38 Highways - Hampshire County Council Specification and Standard Details.

- Existing Utilities**
- The contractor shall refer to the existing and proposed services information, provided by Bellway Homes (Wessex).
- It is the Contractor's responsibility to liaise with all relevant services companies to ensure that all existing services are accurately located and adequately protected during construction.
- It is the Contractor's responsibility to liaise with the Developer and all relevant services companies to ensure that all new and diverted services are accurately located and adequately protected during construction.
- All works to existing services to be undertaken as required by the Developer. Refer to Developer design.

- Legend**
- Indicative site application boundary
 - Proposed highway drain and manhole to be adopted by HCC under S38. To be constructed in accordance with HCC standard details.
 - Proposed S104 surface water sewer and manhole to be constructed in accordance with Sewers for adoption 6th Edition. To be adopted by Southern Water
 - Proposed S104 foul water sewer to be constructed in accordance with Sewers for adoption 6th Edition. To be adopted by Southern Water
 - Proposed S185 foul water sewer to be constructed in accordance with Sewers for adoption 6th Edition. To be adopted by Southern Water
 - Proposed S104 adoptable foul water vitrified clay lateral pipe and Type 3 inspection chamber. Refer to drawing no. C85850-D164 - D166 Private Drainage Layout
 - Proposed S104 adoptable surface water vitrified clay lateral pipe and Type 3 inspection chamber. Refer to drawing no. C85850-D164 - D166 Private Drainage Layout
 - S38 Deep trapped road gully to be adopted by highways authority
 - Existing Southern Water public foul water sewer
 - Existing surface water sewer/land drain
 - Proposed road contours
 - Existing contours
 - Proposed plot finished floor level
 - Proposed private attenuation tank, Versavoid tank by ESS or similar approved. To be installed in strict accordance with ESS design and installation instructions

- Existing Onsite Drainage**
- All existing drainage found on site during the works shall be investigated, its operational status confirmed, and the following applied:-
- Inoperative drainage shall be cut back and pipe runs filled with concrete gROUT.
 - 'Live' drainage shall be temporarily re-routed to allow the new drainage to be constructed.
- Any land drains serving offsite areas shall be referred to Bellway Homes. No land drains shall connect to the public water sewer network.
- Existing Public Surface Foul & Water Capacity & Connections**
- Surface Water - Connection to the public surface water sewer shown is indicative only and subject to capacity check and upgrade works to be confirmed by Southern Water. No construction works shall be undertaken prior to formal capacity, connection and S104 approval has been issued by Southern Water.
- Foul Water - The existing public foul water sewer crossing the site shall be diverted via S185 Sewer Diversion application with Southern Water. Refer to S185 drawing nos C85850-D120-D121 Foul Sewer Diversion Layout. Proposed site connections to S185 subject to capacity check and upgrade proposals by Southern Water. No construction works shall be undertaken prior to formal capacity, S106 sewer connection application, S104 and S185 approval has been issued by Southern Water.
- Twin Wall Attenuation Pipes by Wehollite or similar approved. Refer to manufacturers design, TBC. To be installed in strict accordance with manufacturers requirements.



- Notes:-
- Where this drawing has been issued in electronic .dwg format it has been done so in good faith. jnpgroup do not take any responsibility for any inaccuracies in the electronic data, which should be checked against the paper (or .pdf) drawing issue. Any apparent discrepancies should be immediately reported to jnpgroup. The electronic .dwg file should not be assumed to be to scale and should not be used for 'overlying', setting out or checking of any third party information. All dimensions should be taken from the paper (or .pdf) version of the drawing. Electronic drawings may contain third party information, jnpgroup take no responsibility for this information, which should be checked against the originators paper drawing(s).
 - All working dimensions to be checked on site.
 - Do not scale.
 - Any discrepancies between drawings of different scales, and between drawings and specification where appropriate to be notified to The Engineer for decision.
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 - This drawing should only be used for construction if the drawing status is "Construction". jnpgroup take no responsibility for construction works undertaken to drawings which are not marked with this status.
- Health and Safety Note:
The details on this drawing have been prepared on the assumption that a competent contractor will be carrying out the works. If the contractor(s) considers that there is insufficient Health and Safety information on this drawing, this should immediately be brought to the attention of the designer.

- Hazard Identification**
- 1 Contact with traffic
 - 2 Deep excavations
 - 3 Existing services
 - 4 Contact with raw sewage
- This drawing is based on the following information provided by others:
- Topographical Survey undertaken by Steline Geomatic Surveyors, ref. 05HA01, dated January 2018.
 - Site Layout plan by OSP Architecture, ref. 17300 - P101 Rev G, dated November 2018.
 - Tree Survey by Bernie Harverson, ref. 0787 - BJH 01/02, dated October 2015.
 - Landscape Proposals by ACD Environmental, ref. BELL21747 11F, date November 2018.

Rev.	Date	Amendment	By	Chk.
K	11.03.19	Wellholite system updated. Pipe branch 1 references updated.	KM	KT
J	11.02.19	S38 manholes S109, S110 & S111 changed from rectangular to cylindrical.	KM	KT
H	18.01.18	Demarcation chamber and lateral note amended in legend. S38 highway drainage inRoad 3 removed.	KM	KT
G	04.01.18	Surface water outfall route amended.	KM	KT
F	07.12.18	Class 'Z' bedding note added. Drainage revised.	CT	KM
E	22.10.18	Highway drainage colour revised to black.	CT	KM
D	12.10.18	Colours revised to Southern Water instruction.	CT	KM
C	28.09.18	Revised to suit Wellholite oversize pipe design. Sewer easement added.	CT	KM
Status	Construction			

Bellway

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Client	Bellway Homes		
Job	Bartons Road Havant, Hampshire		
Title	Adoptable Drainage Layout		
Scale	1:500	@ A1	Date July 2018
Drawn by	CT	Checked by	KT Approved by KT
Drawing No.	C85850-D101		Rev. K