

Existing Surface Water pumps to be removed. GEN3 concrete infill chamber and form new channel and benching at proposed invert level. Double width step irons to be cast in vertical alignment at 250mm centres. Alternatively integrated ladder system to BS EN 13101 can be constructed. New 225Ø outlet to connect to MH S11. Backdrop connection to be constructed on upstream pipework from MHS9.

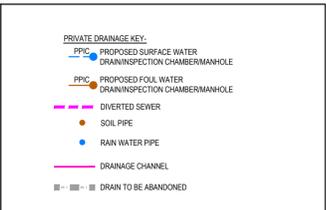
Existing surface water rising main to be abandoned.

ACO MD150 with D400 grate to intercept hardstanding runoff.

New foul junction connection. Chase existing sewer (if necessary) to achieve adequate outfall connection depth. Minimum IL required 120.332

Polystorm Xtra Modular crates (minimum 900mm cover if subject to highway loading.

Proposed attenuation crates Minimum volume required = 136.80m³ (Considering 95% void ratio) The attenuation has been designed based on the 1 in 100 year + 30% climate change storm event due to the topography of the site. Crates to be constructed in strict accordance with manufacturers guidance. Building foundations to be taken down to IL of attenuation crates to avoid surcharging the SW feature.



- Notes:**
- This drawing is copyright and must not be copied in part or in whole unless agreed with Avie Consulting Ltd
- All dimensions are in millimetres unless noted otherwise
- DO NOT SCALE THIS DRAWING - IF IN DOUBT ASK
- All dimensions & levels to be checked by the contractor prior to commencement of work, any discrepancy shall be reported immediately to Avie Consulting Ltd
 - All work shall be carried out in accordance with Local Authority, statutory authority, health & safety requirements and regulations.
 - The drawings shall be read in accordance with all other contract documents relevant at that time of issue and during the period of the contract.
 - The contractor must ensure the overall stability of the works is adequate at all stages of the construction.
 - No allowance has been made for cutouts, holes, notches, etc. for services. All of these are to be agreed prior to the start of the works.

Any existing live services will require diverting to accommodate future development if any present.

Base of building foundations adjacent drainage to be set at IL of the pipework to avoid surcharging the surface water feature.

Cover levels outside the building footprint subject to post demolition survey information and further co-ordination with architects.

Undertake slip trench prior to surface water pump station remedial works to expose existing underground utilities and confirm design level and outlet pipe of MHS10 can be achieved avoiding clashes with services.

Linear drainage channel positions indicative and subject to temporary works levels and design.

Further site investigation required to confirm existing combined sewer ILs.

External Works/Temporary Works subject to client/architect confirmation.

Remedial works to surface water wet well and new connection to be undertaken at the end of the construction phase.

Above Ground Drainage designed by others. Refer to Architects/M&E proposals.

Building Foundations adjacent drainage to be set at IL of the pipework to avoid surcharging the surface water feature.

Further site investigation required to establish levels of existing combined drain and connection levels.

Existing manhole to be investigated, new 225Ø diversion to be constructed diverted Existing manhole may require reconstructing.

Existing Flow Control manhole and 225Ø pipework to be abandoned.

Existing attenuation tank serving Marine Assembly 1 extension to be removed and existing surface water flows to be diverted. Marine Assembly 4 Phase 1 attenuation to incorporate Assembly 1 extension and existing hard standing areas.

Architect/M&E to relocate SVP to avoid clash with Substructure

RWP to be collected by above ground drainage. ACO Multidrain MD150D with D400 grate.

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Make allowance for ACO Multidrain M150D linear perimeter channel drains. Subject to client confirmation/requirements.

ACO Multidrain M150D linked (Cascading) linear drainage channels to external building face. RWPs to be collected by above ground drainage.

ACO MD150 with D400 Perimeter channel drain to accommodate trade effluent flow/spillage. Forecourt Separator or similar to be installed to treat effluent. Regular maintenance required and after any major spillage. Subject to detailed design.

Hydro International 1.0m Advanced Vortex Downstream Defender

Make provision for ACO MD200 with D400 grate to intercept hardstanding runoff. Subject to confirmation of levels following demolition works and in accordance with Temporary Works design provided by others.

Kingspan NSPB003 Bypass Separator. Subject to detailed design. Althon Tideflex TF2 Duckbill Non return valve to be fitted on downstream outlet

New manhole to be constructed on the line of the existing sewer. Chase existing sewer (if necessary) to achieve adequate outfall connection depth. Minimum IL required 117.900.

Rev	Details	By	Chk	Date
P05	Pipe network numbers amended. Storage increased.	T.C.	T.C.	05.10.2023
P04	Acco drain note removed in ramped area	T.C.	T.C.	20.09.2023
P03	Amended to Final Tender issue.	T.C.	T.C.	15.09.2023
P02	Surface Water attenuation size increased to accommodate Phase 3 flows. Drawing Number amended.	T.C.	T.C.	07.08.2023
P01	Additional foul drainage run added.	T.C.	T.C.	23.01.2023
P00	Initial issue	T.C.	T.C.	19.01.2023

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Client: David Brown Santasalo

Project: Marine Assembly 4

Title: Phase 1 Foul and Surface Water Drainage Strategy

Drawn: T.C.	Checked: S.A.B.	Date: Sept 2022	Scale: 1:200	Original dwg size: A1
Drawing Number: DBS-AVE-00-XX-DR-C-1001				Rev: P05