



Salt Box, Bognor Regis

Unit 2 and Access Road Operation and Maintenance Drainage

For LandLink Estates

Date: 29 October 2019

Doc ref: SAL-HYD-XX-ZZ-RP-C-0011

DOCUMENT CONTROL SHEET

Issued by	Hydrock Consultants Limited Merchants House North Wapping Road Bristol BS1 4RW United Kingdom	T +44 (0)117 9459225 E bristolcentral@hydrock.com www.hydrock.com
Client	LandLink Estates	
Project name	Salt Box, Bognor Regis	
Title	Unit 2 and Access Road Operation and Maintenance Drainage	
Doc ref	SAL-HYD-XX-ZZ-RP-C-0011	
Project no.	C-13319	
Status	S2	
Date	29/10/2019	

Document Production Record		
Issue Number	02	Name
Prepared by	Mike Griffin	
Checked by	Laurence Daly	
Approved by	Jason Walker	

Document Revision Record			
Issue Number	Status	Date	Revision Details
01	S2	11/10/2019	Issued for planning
02	S2	17/10/2019	Updated to incorporate Arun DC comments
03	S2	29/10/19	Updated drawings appended

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Introduction

The key elements of the surface water system will require periodic maintenance to prevent failure of the system and/or a reduction in capacity of the networks as a whole and the following matrix therefore sets out the various drainage items to be maintained, identifies whose is responsible and the frequency of maintenance.

It is anticipated that the drainage within the development will be maintained privately by a management company appointed by the owner / occupier as follows:

Unit 2

The occupier (Warburtons) will have direct responsibility for the maintenance and repair of the foul and surface water drainage system within their site boundary including ensuring compliance with any regulatory requirement with regards to the quality of surface water discharge.

Site Wide Drainage (inc Estate Road)

Management of the site wide drainage is the overall responsibility of the Landlords. The overall estate will be owned & managed by a management company who will be funded by the landlord. The management Company will derive income from the service charge obligations placed on the tenants on a due proportion basis.

The intention is that the Estate Road will eventually become adopted by West Sussex Local Authority Highways and all maintenance responsibilities with regards to the associated Estate Road drainage system will be passed over to the Local Authority. Until then, maintenance of the Estate Road drainage will be the responsibility of the Landlords as noted above.

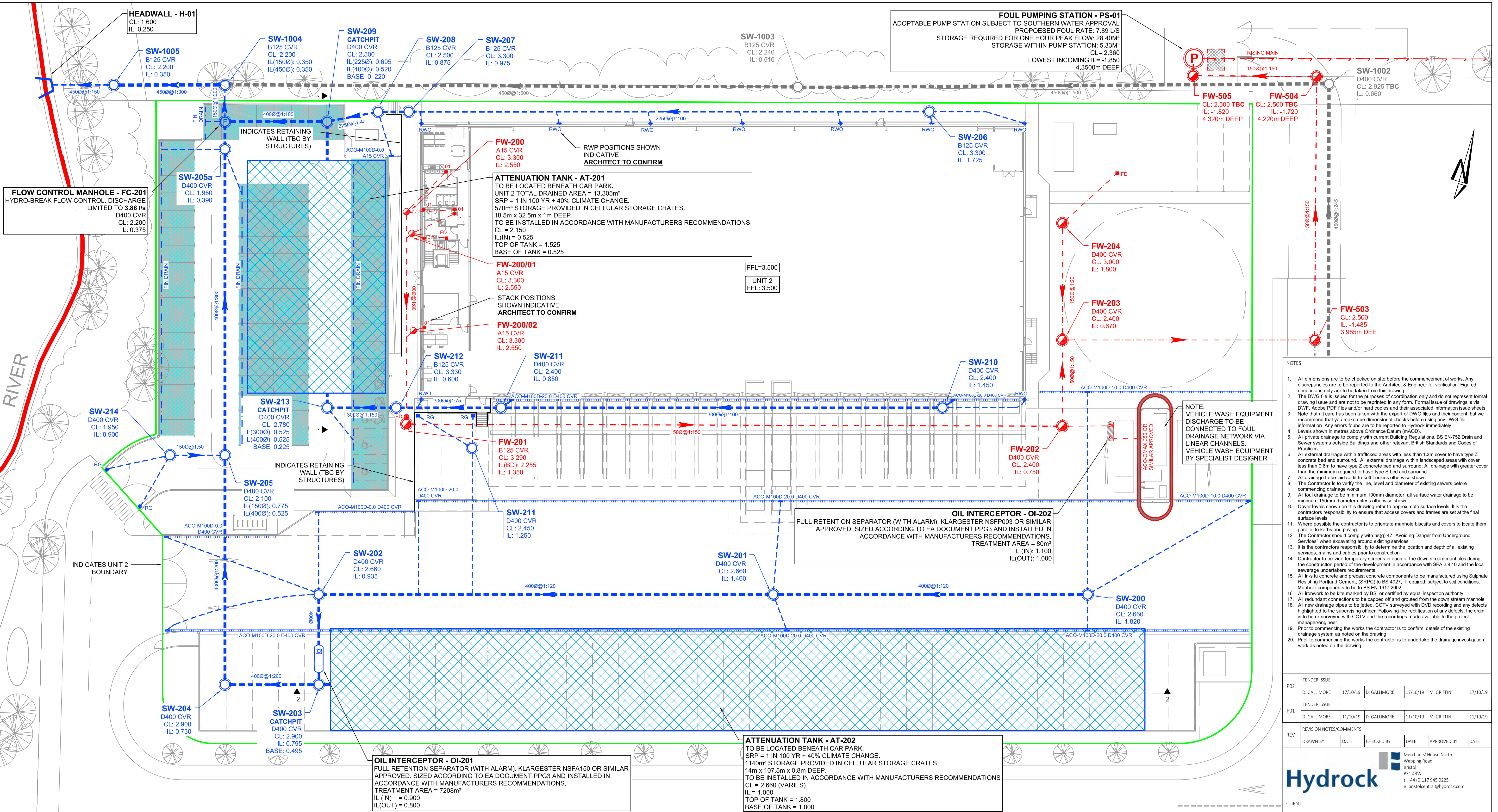
Ownership & Maintenance Responsibility Matrix

Responsibility	Feature	Maintenance	Frequency
Owner / Occupier Appointed Management Company	Private Drains	Inspection	CCTV survey every 5-10 years.
		Regular Maintenance	Jet clean system fully every 5-10 years. (Recommend prior to CCTV drainage survey is)
		Remedial / Occasional Maintenance	Carry out remedial works as identified in CCTV survey.
	Outfall pipes, non-return pipe flaps, and anti-scour mat flow channel	Inspection	Quarterly
		Regular Maintenance	Remove silt and debris as necessary to prevent build up.
		Remedial / Occasional Maintenance	Damage to pipes and headwall to be repaired as necessary
	Discharge orifice manholes/flow control devices	Inspection	Quarterly
		Regular Maintenance	Remove silt and debris as necessary to prevent build up.
	Gullies / Drainage Channels	Inspection	Quarterly
		Regular Maintenance	Remove silt and debris as necessary to prevent build up.
	Permeable Paving (Refer to specialist)	Inspection	Within 3 months of installation then annually
		Regular Maintenance	Sweep surface to remove debris and contamination 1-2 times a year, and typically after leaf fall in autumn.
		Occasional Maintenance	Removal of weeds. As required.
		Remedial Measures	Remediate areas of rutting and depressions. As required. Replace broken / damaged blocks. As required. Rehabilitate surface with sweeping and reapplication of clean gritstone. As required.
	Oil Interceptor	Inspection	Quarterly
		Regular Maintenance	Jet clean system fully every 5-10 years. (Recommend prior to CCTV drainage survey)
		Remedial / Occasional Maintenance	Carry out remedial works as identified in CCTV survey.
	In addition to the above, the following is a list of tasks associated with the maintenance of an Interceptor. This should be read in conjunction with the manufacturers own specific maintenance requirements and only carried out by a fully trained operative. - Inspect the integrity of the separator and all mechanical parts. - Inspect all filters and replace or repair as required.		

		• Assess the amount of collected contaminants (oil and fuel) and silt. • Service any electrical systems including volume alarms and any interceptor management systems. • Conduct safe silt/contaminant removal in accordance with waste transit and disposal regulations. • Maintain industry standard documentation. • Maintain logs of inspections, maintenance, incidents, services and contaminant removal.
		<u>Interceptor Alarms:</u> Each interceptor will have a visual alarm indicator local to the interceptor as well as an alarm (visual or audible) linked either back to the adjacent building if maintenance responsibility resides with the tenant or to a remote supervisory point when maintenance responsibility resides with the estate management team.
	Reference should be made to the manufacturer recommendations where applicable	

Appendix A Drainage Layouts

- SAL-HYD-00-ZZ-DR-C-7010 Unit 2 Drainage layout
- SAL-HYD-00-ZZ-DR-C-7020 Access Road Drainage Layout Sheet 1
- SAL-HYD-00-ZZ-DR-C-7021 Access Road Drainage Layout Sheet 2
- SAL-HYD-00-ZZ-DR-C-7022 Access Road Drainage Layout Sheet 3



LEGEND

PROPOSED DRAINAGE - FOUL

- 1000@1:100 Foul water drain - CLAY
- FW-01 Foul water manhole
- FW-01 Foul water inspection chamber
- SAC Foul water shallow access chamber
- RE Foul rodding eye

FOUL YARD GULLY (to be trapped)

FLOOR DRAIN (to be trapped)

FOUL OUTLET / STACK POSITION

PROPOSED DRAINAGE - STORM

- SW-01 Storm water manhole
- SW-01 Storm water inspection chamber
- RE Storm rodding eye
- ST Storm water drain - CLAY
- SW-01 Storm water manhole
- SW-01 Storm water inspection chamber
- RE Storm rodding eye
- ST Storm water drain - CLAY

RAIN WATER OUTLET ACCESS GULLY

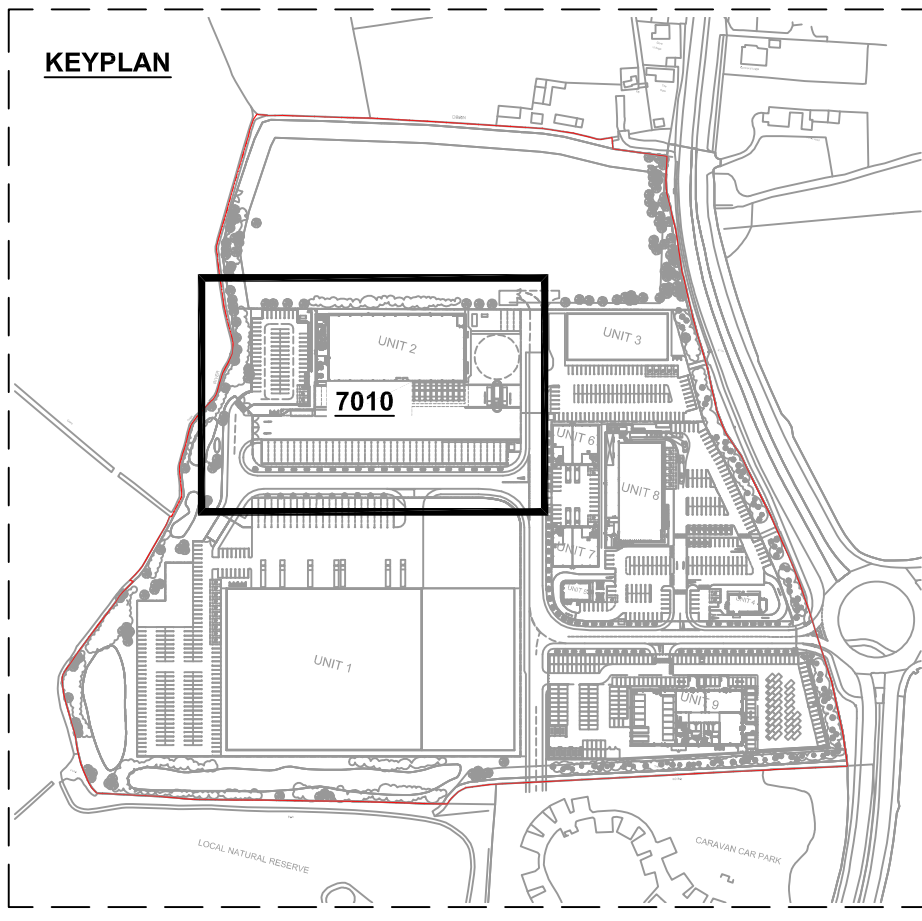
ROAD GULLY (to be trapped)

YARD GULLY (to be trapped)

PAVED AREA GULLY (to be trapped)

DRAINAGE CHANNEL

THRESHOLD DRAINAGE CHANNEL



- NOTES**
- All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect & Engineer for verification. Figured dimensions only are to be taken from this drawing.
 - The DWG file is issued for the purposes of coordination only and does not represent formal drawing issue and are not to be reprinted in any form. Formal issue of drawings is via DWG, Adobe PDF files and/or hard copies and their associated information sheets.
 - Note that all care has been taken with the export of DWG files and their content, but we recommend that you make due dimensional checks before using any DWG file information. Any errors found are to be reported to Hydrock immediately.
 - Levels shown in metres above Ordnance Datum (mAOD).
 - All private drainage to comply with current Building Regulations, BS EN-752 Drain and Sewer systems outside Buildings and other relevant British Standards and Codes of Practices.
 - All external drainage within trafficked areas with less than 1.2m cover to have type Z concrete bed and surround. All external drainage within landscaped areas with cover less than 0.6m to have type Z concrete bed and surround. All drainage with greater cover than the minimum required to have type S bed and surround.
 - All drainage to be laid soffit to soffit unless otherwise shown.
 - The Contractor is to verify the line, level and diameter of existing sewers before commencing drainage works.
 - All foul drainage to be minimum 100mm diameter, all surface water drainage to be minimum 150mm diameter unless otherwise shown.
 - Cover levels shown on this drawing refer to approximate surface levels. It is the contractors responsibility to ensure that access covers and frames are set at the final surface levels.
 - Where possible the contractor is to orientate manhole biscuits and covers to locate them parallel to kerbs and paving.
 - The Contractor should comply with hsg 47 "Avoiding Danger from Underground Services" when excavating around existing services.
 - It is the contractors responsibility to determine the location and depth of all existing services, mains and cables prior to construction.
 - Contractor to provide temporary screens in each of the down stream manholes during the construction period of the development in accordance with SFA 2.9.10 and the local sewerage undertakers requirements.
 - All in-situ concrete and precast concrete components to be manufactured using Sulphate Resisting Portland Cement, (SRPC) to BS 4027, if required, subject to soil conditions. Manhole components to be to BS EN 1917:2002.
 - All in-situ concrete to be laid marked by BS1 or certified by equal inspection authority.
 - All new drainage pipes to be jetted, CCTV surveyed with DVD recording and any defects highlighted to the supervising officer. Following the rectification of any defects, the drain is to be re-surveyed with CCTV and the recordings made available to the project manager/engineer.
 - Prior to commencing the works the contractor is to confirm details of the existing drainage system as noted on the drawing.
 - Prior to commencing the works the contractor is to undertake the drainage investigation work as noted on the drawing.

TENDER ISSUE	PO2					
	D. GALLIMORE	17/10/19	D. GALLIMORE	17/10/19	M. GRIFFIN	17/10/19
TENDER ISSUE	PO1					
	D. GALLIMORE	11/10/19	D. GALLIMORE	11/10/19	M. GRIFFIN	11/10/19
REVISION NOTES/COMMENTS						
DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE	

CLIENT

LANDLINK ESTATES

PROJECT

SALTBOX BOGNOR REGIS

TITLE

UNIT 2 DRAINAGE LAYOUT

HYDROCK PROJECT NO.

C-13319-C

STATUS DESCRIPTION

TENDER

DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)

SAL-HYD-00-ZZ-DR-C-7010

SCALE @ A1

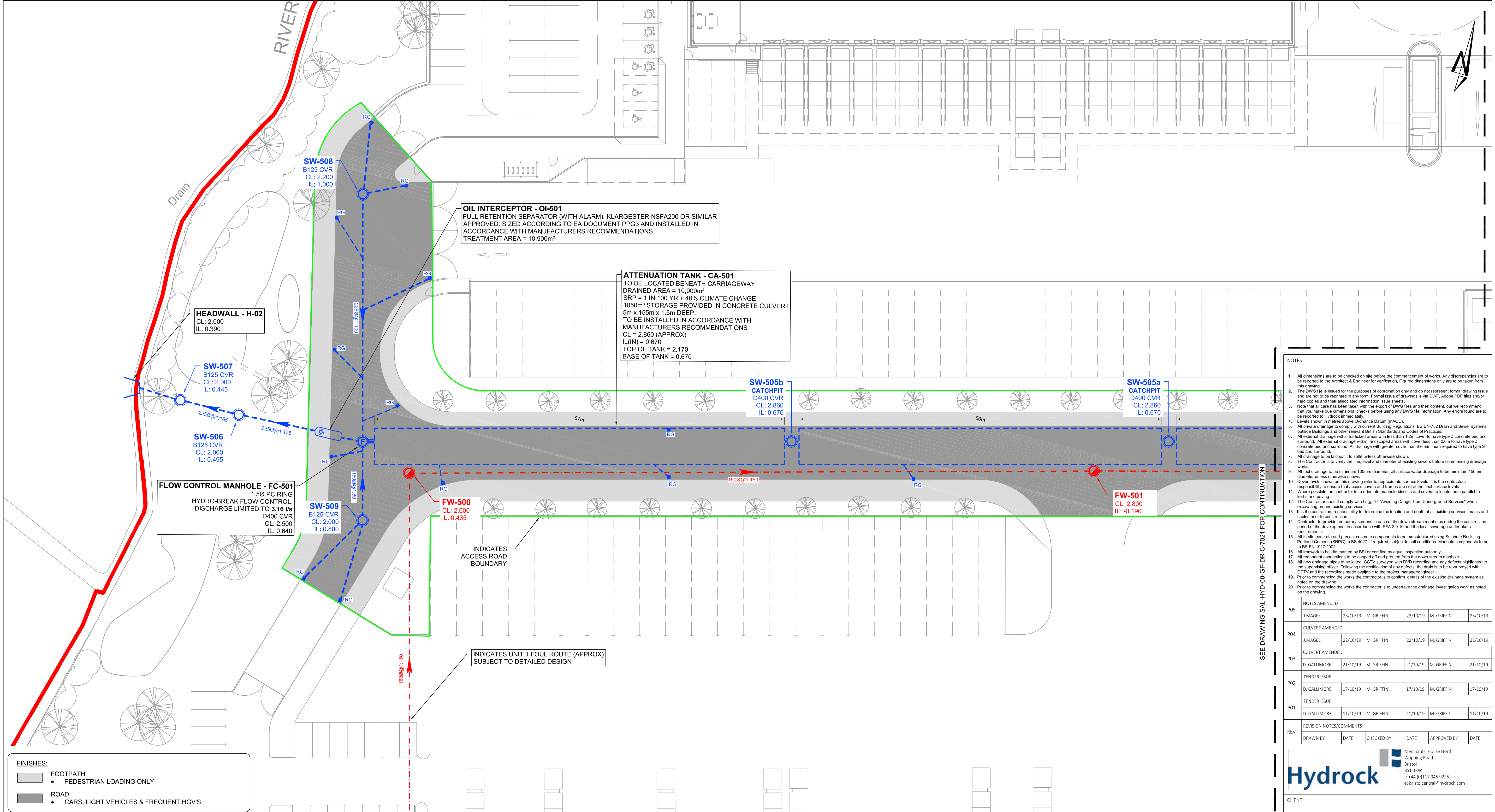
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STATUS

D2

REVISION

P02



LEGEND

PROPOSED DRAINAGE - FOUL

1000@1:100

FOUL WATER DRAIN - CLAY

Approx. gradient and diameter as noted, 100mm Ø UNO

FW-01

FOUL WATER MANHOLE

PC Ring 1.2m Ø UNO

FW-01

FOUL WATER INSPECTION CHAMBER

PVCu 450mm Ø. Max 1.2m depth - reduced access to 3.0m

Note: All internal foul MH's and IC's to have recessed covers, double sealed and locking to prevent odours. Refer to layout for location.

SAC

FOUL WATER SHALLOW ACCESS CHAMBER

Max depth to invert 600mm from GL, 300mm Ø

RE

FOUL RODDING EYE

Ø as noted

YG

FOUL YARD GULLY (to be trapped)

Gully reference as noted on drawing. Cover grade to suit loading.

FD

FLOOR DRAIN (to be trapped)

Internal use only, refer to architect for details / specification. Roddable from above slab into standard (01) fitting. Floor Drain / Gully to be kept charged to avoid odours.

01 & 01A

FOUL OUTLET / STACK POSITION

Shown indicative, refer to architect for setting out. All branches 100mm Ø UNO.

01 - Outlet connects into standard 90° rest bend.

01A - Indicates access required in above slab plumbing for rodding, refer to service engineers drawings for details.

SVP - Indicates soil vent pipe by service engineer: with access.

PROPOSED DRAINAGE - STORM

1500@1:100

STORM WATER DRAIN - CLAY

Approx. gradient and diameter as noted, 150mm Ø UNO

SW-01

STORM WATER MANHOLE

PC Ring 1.2m Ø UNO

SW-01

STORM WATER INSPECTION CHAMBER

PVCu 450mm Ø. Max 1.2m depth - reduced access to 3.0m

RE

STORM RODDING EYE

Ø as noted

SILT TRAP

CONCRETE ENCASEMENT TO PIPE

Refer to limits of cover table drawing 7101

01 & 01A

RAIN WATER OUTLET

Shown indicative, refer to architect for setting out. All branches 100mm Ø UNO.

01 - Outlet connects into standard 90° rest bend.

01A - Indicates access required in above slab plumbing for rodding, refer to service engineers drawings for details.

AG

RAIN WATER OUTLET ACCESS GULLY

AG - Outlet connects to gully.

RG

ROAD GULLY (to be trapped)

YG

YARD GULLY (to be trapped)

PG

PAVED AREA GULLY (to be trapped)

DC

DRAINAGE CHANNEL

(Refer to layout for specification)

TH

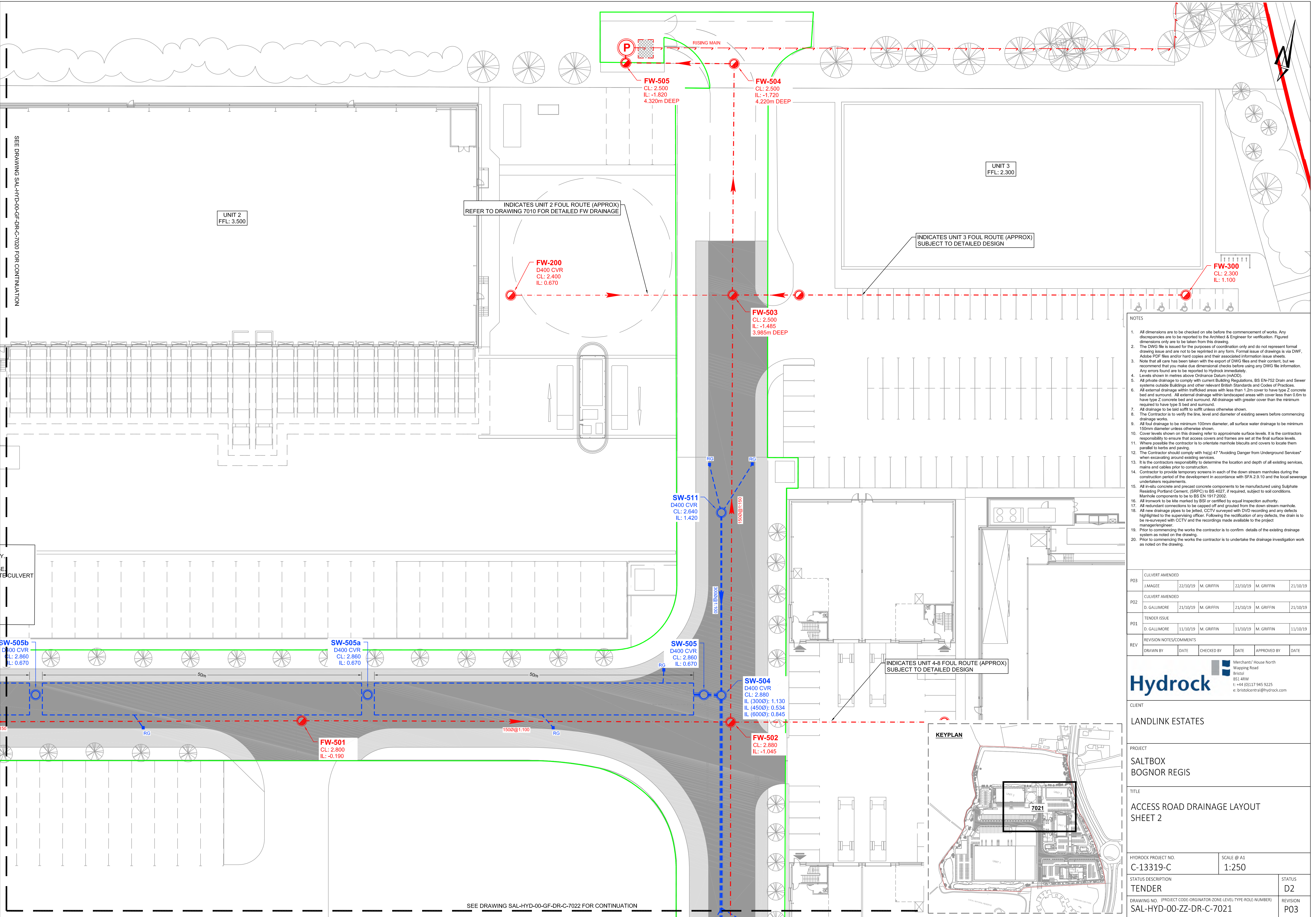
THRESHOLD DRAINAGE CHANNEL

(Refer to architect for details / specification)

Note: All internal foul MH's and IC's to have recessed covers, double sealed and locking to prevent odours. Refer to layout for location.

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P05	NOTES AMENDED	J.MAGEE	23/10/19	M. GRIFFIN	23/10/19
P04	CULVERT AMENDED	J.MAGEE	22/10/19	M. GRIFFIN	22/10/19
P03	CULVERT AMENDED	D. GALLIMORE	21/10/19	M. GRIFFIN	21/10/19
P02	TENDER ISSUE	D. GALLIMORE	17/10/19	M. GRIFFIN	17/10/19
P01	TENDER ISSUE	D. GALLIMORE	11/10/19	M. GRIFFIN	11/10/19
REV	REVISION NOTES/COMMENTS	DRAWN BY	DATE	CHECKED BY	DATE
Hydrock Merchants' House North Wapping Road Bristol BS1 4RW t: +44 (0)117 945 9225 e: bristolcentral@hydrock.com CLIENT LANDLINK ESTATES PROJECT SALTBOX BOGNOR REGIS TITLE ACCESS ROAD DRAINAGE LAYOUT SHEET 1 HYDROCK PROJECT NO. C-13319-C SCALE @ A1 1:250 STATUS DESCRIPTION TENDER STATUS D2 DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) SAL-HYD-00-ZZ-DR-C-7020 REVISION P05					

ALURIN DISTRICT COUNCIL REF:131918DOC



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CULVERT AMENDED					
P03	J.MAGEE	22/10/19	M. GRIFFIN	22/10/19	M. GRIFFIN
CULVERT AMENDED					
P02	D. GALLIMORE	21/10/19	M. GRIFFIN	21/10/19	M. GRIFFIN
TENDER ISSUE					
P01	D. GALLIMORE	11/10/19	M. GRIFFIN	11/10/19	M. GRIFFIN
REVISION NOTES/COMMENTS					
REV	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY

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CLIENT		LANDLINK ESTATES	
PROJECT		SALTBOX BOGNOR REGIS	
TITLE		ACCESS ROAD DRAINAGE LAYOUT SHEET 2	
HYDROCK PROJECT NO.		SCALE @ A1	
C-13319-C		1:250	
STATUS DESCRIPTION		STATUS	
TENDER		D2	
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)		REVISION	
SAL-HYD-00-ZZ-DR-C-7021		P03	

SEE DRAWING SAL-HYD-00-GF-DR-C-7021 FOR CONTINUATION



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- Prior to commencing the works the contractor is to undertake the drainage investigation work as noted on the drawing.

CULVERT AMENDED

D.	GALLIMORE	21/10/19	M. GRIFFIN	21/10/19	M. GRIFFIN	21/10/19
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TENDER ISSUE

D.	GALLIMORE	11/10/19	J. MAGEE	11/10/19	M. GRIFFIN	11/10/19
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REVISION NOTES/COMMENTS

DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
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Merchants' House North
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CLIENT

LANDLINK ESTATES

PROJECT

SALTBOX
BOGNOR REGIS

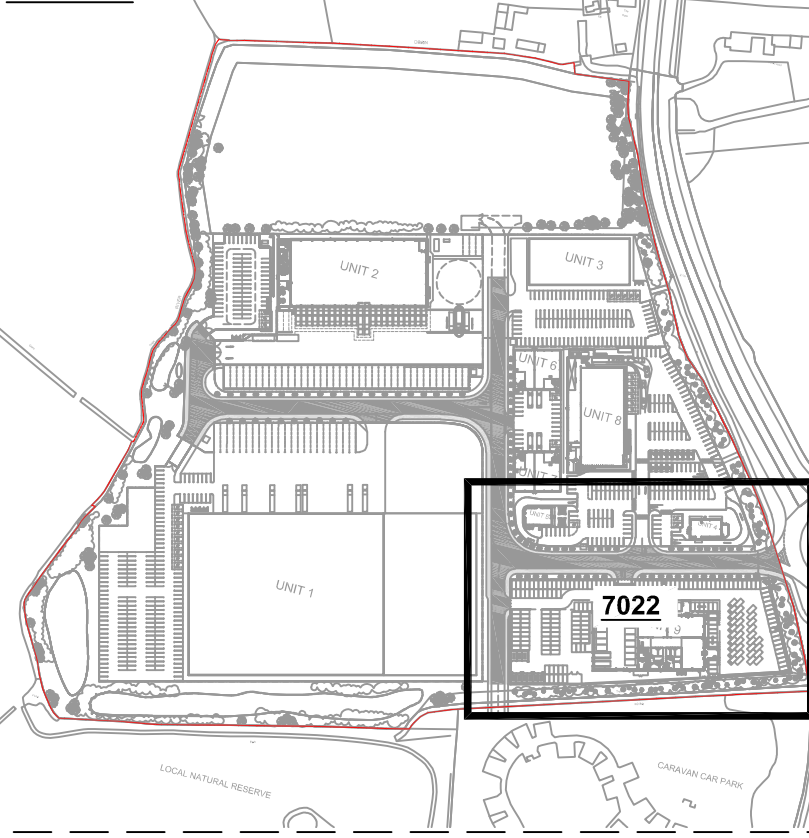
TITLE

ACCESS ROAD DRAINAGE LAYOUT
SHEET 3

HYDROCK PROJECT NO. C-13319-C		SCALE @ A1 1:250	STATUS D2
TENDER			
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) SAL-HYD-00-ZZ-DR-C-7022			REVISION P02

INDICATES UNIT 9 FOUL ROUTE (APPROX)
SUBJECT TO DETAILED DESIGN

KEYPLAN



UNIT 9
FFL: 2.750

FW-900
A15 CVR
CL: 2.750
IL: 1.550

FW-507
CL: 1.710
IL: -0.505

FW-506
CL: 2.880
IL: -0.040

SW-502
D400 CVR
CL: 2.880
IL: 1.710

SW-501
D400 CVR
CL: 3.090
IL: 2.085

SW-503
D400 CVR
CL: 1.710
IL (2250): 1.455
IL (3000): 1.380
IL (4500): 1.230

SW-510
D400 CVR
CL: 2.650
IL: 1.595