ARUN DISTRICT COUNCIL DC/071/15/PL

NORTH

HYDROBRAKE

Supplier	Hydro Int.
Chamber	ø1.80
Cover	D400
Chamber CL	2.28
Chamber IL	0.26
Design Flow	61 l/s
Design Head	1.00m

NEW SW CONNECTION

- SET OUT NEW MANHOLE D1 TO SUIT EXISTING ø600 SEWER.
- ALLOW FOR NEW ø375 CONNECTION FROM SITE.

COMPLETE DIVERSION

- CAP OFF EXISTING ø600 UPSTREAM CONNECTION.
- FORM NEW ø1.35 MANHOLE ON LINE OF EXISTING ø450 OUTFALL WITH NEW ø600 DIVERTED INLET.

D1 1.50ø Cover D400 CL 2.30 IL 0.17

D2 1.50ø Cover D400 CL 2.45 IL 0.12

BOUNDARY TREATMENT ACCORDING TO SECTION 2–2, LENGTH:27.5m

1.2m LANDSCAPE STRIP WIDTH. 1 IN 3 MAX GRADIENT TO TIE INTO EXISTING BOUNDARY LEVELS

BOUNDARY TREATMENT ACCORDING TO SECTION 1–1. LENGTH:29m

EX SW ø600

S110 1.20ø Cover D400 CL 2.20 IL 0.76

S105 ø0.45 Cover D400 CL 2.26 IL 0.91

F101 0.45ø Cover B125 CL 2.40 IL 1.55

S101 0.45ø Cover C250 CL 2.40 IL 1.25

F102 1.20ø Cover B125 CL 2.35 IL 1.04

EXISTING SEWER/MANHOLES

- EXISTING ø600 STORM SEWER TO BE ABANDONED. BREAK OUT AND REMOVE OR INFILL AND GROUT OUT .
- CAP OFF REDUNDANT CONNECTIONS WITHIN LIVE MANHOLES.

PERFORATED SCRAPER PIPE ø375

NEW DIVERTED ø600 STORM SEWER 1:51

D400 LINEAR DRAIN CHANNEL @ 2.24

ø100 @ 1:47 (2.000)

ø150 @ 1:21 (4.000)

D400 LINEAR DRAIN CHANNEL @ 2.10

Heelsafe drainage channels across doors thresholds.

Dropped Kerb

S111 1.20ø Cover D400 CL 2.37 IL 0.45

S106 1.20ø Cover D400 CL 2.26 IL 0.41

SSL/FFL = 2.50

S112 1.35ø Cover D400 CL 2.32 IL 0.30

F103 1.20ø Cover D400 CL 2.45 IL 0.46*

NEW FOUL WATER CONNECTION

- FORM NEW MANHOLE ON EXISTING ø150 FOUL WATER PIPE.
- INVERT OF EXISTING SPUR IS ASSUMED BASED ON AS BUILT INFORMATION. CONTRACTOR TO CONFIRM PRIOR TO COMMENCING GROUND WORKS.

SW ATTENUATION TANK

Supplier	SDS GEOlight
Area drained	6200m²
Size	L15.0m x W4.0m x H1.0m (60.0m³)
Ground	@ 2.25m
Top	@ 1.28m
Base	@ 0.28m

COMMENCE DIVERSION

- CAP OFF EXISTING ø600 UPSTREAM CONNECTION.
- BREAK OUT AND REMOVE OR INFILL EXISTING ø600 DOWNSTREAM CONNECTION.
- FORM NEW ø600 SW DIVERSION COMMENCING ON EXISTING SW MANHOLE AT 0.80 INVERT LEVEL .

S104 1.20ø Cover D400 CL 2.45 IL 0.54

S103 1.20ø Cover C250 IL 0.60

S102 1.20ø Cover B125 CL 2.25 IL 0.95

PETROL INTERCEPTOR

Supplier	Conder (or similar approved)
Spec.	CNSBBs/21 Class 1 by-pass
Area drained	4100m²
IL in	ø300 @ 0.40
IL out	ø300 @ 0.35
Notes	silt capacity / kiosk / high level alarm / Single phase power supply / vented.

EX SW CL 2.66* IL 1.26*

Heelsafe drainage channels across doors thresholds.

Existing gullys

S109 1.20ø Cover D400 CL 2.37 IL 0.70

S107 1.20ø Cover D400 CL 2.36 IL 1.13

S108 1.20ø Cover D400 CL 2.22 IL 0.86

BOUNDARY TREATMENT

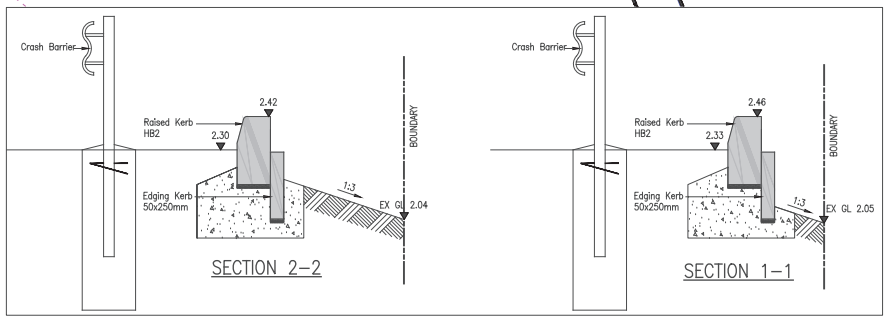
- ALLOW FOR FORMING GENTLE SLOPES FROM BACK OF NEW FOOTPATH DOWN TO EXISTING GROUND LEVELS.

ENSURE NO UPSTREAM LIVE CONNECTIONS AND CAP OFF AT BOUNDARY

Ex ø225 SW

LEGEND

- New surface water run
- S101 ø1.20 – Surface Water Manhole
- Ex SWMH – Existing public/private surface manhole
- Existing public/private surface water run
- Existing public/private surface water run to be demolished
- Ex SWMH – Existing public/private surface manhole to be demolished
- New foul water run
- F101 ø1.20 – Foul Water Manhole
- Existing public/private foul/combined water run
- Concrete encasement
- Linear drain channel
- G – Gully
- 2.95 – Proposed levels
- 2.95 – Existing levels.



1. ALSO READ ACCOMPANYING NBS SPECIFICATIONS:
 - 1.1. D20 Excavating and filling
 - 1.2. Q10 Kerbs & edgings
 - 1.3. Q20 Granular sub bases
 - 1.4. Q21 In situ concrete paving
 - 1.5. Q22 Asphalt roads
 - 1.6. Q24 Interlocking block paving
 - 1.7. R10 Rainwater drainage system
 - 1.8. R11 Above ground foul drainage
 - 1.9. R12 Below ground drainage system
2. DRAWING BASED ON:
 - 2.1. Topographical survey: Shaw Colgate Surveys, dwg no: 09314_Topo, dated: July 2014
 - 2.2. Site plan: Harris Partnership Architects, dwg no: 13379–201, Rev B, dated: 30.06.15
3. GROUND CONDITIONS:
 - 3.1. Ground Investigation Report: SOILTECHNICS, Aug 2015, Report: STM32160–G01
 - 3.2. Expected condition: Made Ground overlying Marine Deposits which overlie Chalk Group.
 - 3.3. Groundwater: 1.19–6m bgl
 - 3.4. CBR: TO BE TESTED ON SITE
4. DRAINAGE APPROVAL: TO BE SUBMITTED
 - 4.1. Southern Water: S106 for indirect FW connection Network Rail: S106 for indirect SW connection
5. ANCILLARIES SPECIFICATION:
 - 5.1. Linear drainage channels: Gatic Castslot, Aco Qmax, or similar approved.
 - 5.2. Petrol Interceptor: Conder or similar approved
 - 5.3. Hydrobrake: Hydro Int.
 - 5.4. Attenuation tank: SDS Geolight
6. GENERALLY:
 - 6.1. Levels in metres unless noted otherwise.
 - 6.2. Contractor responsible for checking accuracy of drawing information to on–site conditions. i.e. when tying into existing road alignments or sewers.
 - 6.3. Contractor responsible for ensuring no existing underground services will clash with proposed works. e.g. by tracing and notifying and liasing with owner of apparatus.
 - 6.4. Contractor must install final drainage connection following receipt of consent prior to installing any upstream drainage.

Rev	Init	Date	Revision
C2	AT	11.02.16	AMENDED SERVICE YARD DRAINAGE
C1	AT	19.01.16	ISSUE FOR CONSTRUCTION

bradbrook consulting
Civil & Structural Engineers
1st Floor, Neville House, 55 Eden Street, Kingston Upon Thames, Surrey, KT1 1BW
Tel: 020 8339 9006
Email: info@bradbrookconsulting.com
Web: www.bradbrookconsulting.com
London Dubai Kingston Qatar

Client:

Project: WICKES - SHRIPNEY ROAD BOGNOR REGIS, PO22 9NG

Drawing title: DRAINAGE SCHEME

Purpose of issue: Information ○ Preliminary ○ Approval ○ Tender ○ Construction ● Record Copy ○

Date	Drawn	Scale	Checked
07.10.15	AT	1:200 @ A1	

Drawing no.: 15-112 / 300 Rev: C2