ORIGINAL DRAWING SIZE A1

MANOR ROAD

GREEN ARROWS DENOTE SLIGHT FALL AT SUB-BASE TOWARDS CONVEYANCE DRAINAGE

RED ARROWS DENOTE FALL AT SURFACE LEVEL TOWARDS GULLIES. DETAILED DESIGN TO IMPLEMENT ADDITIONAL HIGHPOINTS RESULTING IN LONGITUDINAL FALLS THAT AVOID PONDING. ONLY CROSS FALLS SHOWN ON THIS DRAWING.

BLUE ARROWS DENOTE FLOOD FLOW ROUTES DURING EXCEEDANCE EVENT AT SURFACE

225MM DIA LINK PIPES TO LINK EXISTING SHALLOW DRAINAGE DITCHES

TRAPPED ROAD GULLY DISCHARGING TO UNDERLYING PERMEABLE SUB-BASE VIA 6m 150mm RIGID PERFORATED PIPE. SHALLOW INSPECTION CHAMBER FOR SILT COLLECTION AND RODDING ACCESS

150mm RIGID PERFORATED PIPE CENTRALLY LAID AT BASE OF ROAD CONSTRUCTION (WITHIN MEMBRANE) TO ASSIST IN THE CONVEYANCE OF COLLECTED SURFACE WATER WITHIN PERMEABLE SUB-BASE TO THE OUTLET LOCATION. RODDABLE ACCESS CHAMBERS ALONG LENGTH.

ALL PEDESTRIAN AND VEHICLE HARDSTANDINGS WITH TANKED PERMEABLE SUB-BASE ACTING AS ATTENUATION FOR STORM WATER. MINIMUM ATTENUATION REQUIRED FOR 100 YEAR STORM EVENT +CC = 306m³. IMPERMEABLE MEMBRANE TO PROVIDE TANKED SYSTEM BEING LAPPED AT EDGES.

POTENTIAL FENCING TO PROTECT SITE USERS FROM FLOOD BASIN AREA

EXISTING FOUL SEWER

FLOOD BASIN AREA TO AVOID EXISTING TREE ROOTS

RISING MAIN

RAMP MAX. GRADIENT 6%

SUMP AND PUMP FOR SURFACE WATER RUNOFF WITHIN LOADING BAY RAMP

PLANT COMPOUND

DELIVERY BAY

WAREHOUSE

18 EURO PALLET CHILLER

30 EURO PALLET BAKERY FREEZER

BAKERY PREP

EXIT ENTRANCE

SALES AREA
1,340M²
FFL: 4.600

FFL 4.600

3.750 Conveyance Swale

FLOOD BASIN AREA 200m³+

3.800 Contour

4.020 Contour

TREE ROOTS ASSUMED NOT TO EXTEND HERE DUE TO LOCATION OF TREE TRUNKS ON OPPOSING SIDE OF DITCH. ROOT EXTENTS TBC

CONNECTION TO DITCH SUBJECT TO ORDINARY WATERCOURSE CONSENT BY LOCAL AUTHORITY. POTENTIAL INVERT LEVEL 3.74m AT CHANNEL BASE

FLOOD BASIN AREA EXTENTS

GROUND RE-PROFILING TO HAVE MINIMUM 1.5m OFFSET FROM STREAM/DRAINAGE DITCH BANK SO THAT THE CURRENT FUNCTION OF THESE COMPONENTS IS NOT ALTERED AND THEIR BANKS REMAIN STABLE

3No. 150ø NON-PERFORATED RODDABLE OUTFALLS. MULTIPLE OUTFALLS ARE PROPOSED FOR CONTINGENCY PURPOSES IN CASE OF BLOCKAGE – EACH CAPABLE OF MINIMUM DISCHARGE OF 5L/S.

MH WITH FLOW CONTROL DEVICE – 5L/S
IL 3.900

MH
IL 3.850

MH
IL 3.818

CLASS 1 BYPASS PETROL SEPARATOR

CHURCH ROAD STREAM

8m FROM RIVER BANK

ANY WORKS WITHIN 8m OF RIVER BANK SUBJECT TO FLOOD RISK ACTIVITY ENVIRONMENTAL PERMIT. AREA TO BE CLEAR OF OBSTRUCTIONS TO ALLOW EA MAINTENANCE VEHICLES

PROPOSED DISCHARGE LOCATION VIA 150ø PROPOSED OUTFALL WITH NON RETURN VALVE. POTENTIAL OUTLET LEVEL 3.44mAOD AT CHANNEL BASE. IF OUTFALL TO STREAM NOT APPROVED ALTERNATIVE DISCHARGE LOCATION VIA PUBLIC SEWER IN MANOR ROAD, SUBJECT TO SOUTHERN WATER PERMISSIONS. SAME SuDS TRAIN ARRANGEMENT TO BE MAINTAINED

TREE ROOT PROTECTION AREA. NO-DIG

CHURCH ROAD STREAM HEADWALL 225ø OUTLET 3.07mAOD)

EXISTING DRAINAGE DITCH

CHURCH ROAD

WOODLAND 13-25m

WOODLAND 13-23m

WOODLAND HT 10-16m

WOODLAND HT 10-14m

WOODLAND HT 10-19m

RESIDENTIAL GARDENS

NOTES.

1. GENERAL

(i) This drawing is not to be scaled, work to figured dimensions only, confirmed on site.

(ii) This drawing is to be read in conjunction with all relevant architectural drawings, detailed specifications where applicable and all associated drawings in this series.

(iii) Any discrepancy on this drawing is to be reported immediately to the partnership for clarification.

(iv) The contractor is responsible for all temporary works and for the stability of the works in progress.

LEGEND

- EXISTING FOUL WATER SEWER
- GRAVITY STORM WATER PIPE
- RIGID PERFORATED PIPE FOR CONVEYANCE
- RISING MAIN
- CONCRETE MANHOLE
- INSPECTION CHAMBER
- CLASS I BYPASS SEPARATOR
- SURFACE FALLS
- SUB-BASE FALLS
- FLOOD FLOW ROUTES
- TRAPPED GULLY
- 4.460 INDICATIVE PROPOSED SPOT LEVELS
- 4.460 EXISTING SPOT LEVEL
- CONVEYANCE SWALE
- CHURCH ROAD STREAM
- TREE ROOT PROTECTION AREA. NO-DIG
- 8m CLEARANCE ZONE FROM RIVER BANK
- INDICATIVE SITE BOUNDARY

N

INDICATIVE ONLY

1:200

0 2m 4m 6m 8m 10m

HOP
HEMSLEY ORRELL PARTNERSHIP
CONSULTING CIVIL & STRUCTURAL ENGINEERS

ISSUED FOR APPROVAL

Revision	Date	By	Rev. No.
LANDSCAPE PLAN UPDATED.	12.10.2017	EF	C
UPDATED FOR FRA REVISIONS.	02.10.2017	EF	B
FZ3 + CC EXTENTS UPDATED FOLLOWING NEW EA DATA.	09.04.17	EF	A
FIRST ISSUE	24.03.17	EF	-

Client: LIDL

Project: LIDL HAYLING ISLAND

Title: PRELIMINARY SUDS PROPOSALS AND FLOOD ZONE COMPENSATION

HOP
HEMSLEY ORRELL PARTNERSHIP
CONSULTING CIVIL & STRUCTURAL ENGINEERS
HOP House, 41 Church Road, Hove BN3 2BE
Tel : +44 (0)1273 223900 Fax : +44 (0)1273 326767
E-Mail : engineers@hop.uk.com
www.hop.uk.com

Scales	Date	Drawn	Engineer	Checked	Approved	HOP Contact
1:250	MARCH '17	IMR	EF	AK	AK	EF

Project No.	Task No.	Dwg. No.	Rev. No.
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