GENERAL NOTES

DO NOT SCALE FROM THIS DRAWING WORK TO FIGURED DIMENSIONS ONLY.

NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS ALLOWED WITHOUT PRIOR PERMISSION IN WRITING.

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND THE SPECIFICATION.

THE CONTRACTOR SHALL INCORPORATE ALL THE REQUIREMENTS OF THE PRE-TENDER STAGE HEALTH AND SAFETY PLAN.

SURFACE WATER DRAINAGE STRATEGY

THE SURFACE WATER DRAINAGE PROPOSALS HAVE BEEN DESIGNED IN ACCORDANCE WITH BS EN 752-4 AND THE BUILDING REGULATIONS APPROVED DOCUMENT H (2010), WHICH INDICATES THE FOLLOWING HIERARCHY FOR THE DISPOSAL OF SURFACE WATER DRAINAGE FROM DEVELOPMENT SITES:-

1. DISCHARGE VIA INFILTRATION;
2. DISCHARGE TO WATERCOURSE;
3. DISCHARGE TO SEWER.

THESE OPTIONS ARE DISCUSSED IN FURTHER DETAIL BELOW.

SURFACE WATER DISCHARGE VIA INFILTRATION

SURFACE WATER DISCHARGE VIA INFILTRATION - IN VIEW OF THE RELATIVELY IMPERMEABLE NATURE OF THE ANTICIPATED COHESIVE GLACIAL TILL, THE SITE WILL NOT BE SUITABLE FOR THE USE OF SOAKAWAYS / OTHER INFILTRATION TECHNIQUES TO DISPOSE OF THE SURFACE WATER RUN-OFF, ALTHOUGH THIS SHOULD BE CONFIRMED BY INTRUSIVE SITE INVESTIGATION PRIOR TO DETAILED DESIGN STAGE.

SURFACE WATER DISCHARGE VIA WATERCOURSE

SURFACE WATER DISCHARGE VIA WATERCOURSE - WE NOTE THE 1200MM DIAMETER CULVERTED WATERCOURSE, KNOWN AS CLAYTON BROOK, WHICH RUNS THROUGH THE SITE. HOWEVER, IT IS NOT CONSIDERED FEASIBLE TO DISCHARGE THE SURFACE WATER RUNOFF TO THIS DUE TO THE SIZE, DEPTH AND ANTICIPATED CONDITION OF THE CULVERT.

SURFACE WATER DISCHARGE TO EXISTING UU SEWER

SURFACE WATER DISCHARGE VIA PUBLIC SEWERS - GIVEN THE SW RUNOFF IS NOT ACHIEVABLE VIA INFILTRATION OR WATERCOURSE, IT IS PROPOSED THAT SURFACE WATER WILL DISCHARGE VIA TWO SEPARATE CONNECTIONS TO THE EXISTING COMBINED SEWERS IN HERNE STREET AND THAMES CLOSE. UNITED UTILITIES HAVE BEEN CONSULTED ON THIS (VIA A PRE-DEVELOPMENT ENQUIRY) AND THEY HAVE CONFIRMED THEIR PREFERRED POINT OF CONNECTION AS BEING TO THE EXISTING COMBINED SEWER, IN HERNE STREET. DUE TO SITE LEVELS AND THE CULVERT THAT CROSSES THROUGH THE SITE THE 2 PLOTS TO THE EASTERN BOUNDARY ARE PROPOSED TO DISCHARGE TO THE COMBINED SYSTEM ADJACENT TO THAMES CLOSE, WE HAVE ASSUMED A DISCHARGE RATE OF 5 L/SEC FOR THIS CONNECTION.

THE DRAINAGE STRATEGY PUT FORWARD IN THIS DOCUMENT IS BASED ON A PRE-DEVELOPMENT ENQUIRY AND THE ASSUMPTION THAT SURFACE WATER DISCHARGE IS ALLOWED TO PASS INTO THE EXISTING PUBLIC COMBINED SEWERS. DUE TO THE DEVELOPMENT LAYOUT THE SURFACE WATER WILL BE SPLIT INTO TWO AREAS A AND B. AREA A CONTAINS 21 NO HOUSES TO THE WEST OF THE SITE, AND AREA B BEING THE 2 NO HOUSES ON THE EASTERN BOUNDARY OF THE SITE.

AREA A WILL BE DRAINED TO THE EXISTING PUBLIC COMBINED SEWER THAT RUNS ALONG THE NEW PROPOSED ROAD FROM HERNE ST. THE SURFACE WATER FLOW WILL BE RESTRICTED TO 5.0 l/sec WITH ATTENUATED WATER BEING STORED IN A PIPED SYSTEM WITHIN THE PROPOSED DEVELOPMENT. THE CONNECTION INVERT LEVEL IS BASED ON UNITED UTILITIES INFORMATION AND SHOULD BE CONFIRMED PRIOR TO DETAILED DESIGN.

AREA B WILL BE DRAINED TO THE EXISTING COMBINED SEWER TO THE SIDE OF THE THAMES CLOSE THE SURFACE WATER FLOW WILL BE RESTRICTED TO 5.0 l/sec WITH ATTENUATED WATER BEING STORED IN A PIPED SYSTEM WITHIN THAMES CLOSE. THE CONNECTION INVERT LEVEL IS TO BE IDENTIFIED PRIOR TO DETAILED DESIGN.

FOUL WATER DESIGN

IT IS PROPOSED THAT FOUL WATER DRAINAGE FOR AREA A WILL DISCHARGE TO THE EXISTING PUBLIC COMBINED SEWER THAT RUNS ALONG THE NEW PROPOSED ROAD FROM HERNE ST, AND FOR AREA B INTO THE PUBLIC COMBINED SEWER TO THE SIDE OF THAMES CLOSE.

LEVEL ASSUMPTIONS

THE SITE AREA IS NOTED TO BE GENERALLY LEVEL, WITH A SLIGHT FALL FROM SOUTH-WEST TO NORTH-EAST. WE HAVE HAD TO ASSUME A CONNECTION LEVEL FOR THE CONNECTION TO THE PUBLIC SEWER IN THAMES CLOSE, ALL EXISTING SEWERS ARE SUBJECT TO SURVEYED LEVELS.

FINISHED FLOOR LEVELS

FINISHED FLOOR LEVELS HAVE BEEN SET AT EITHER 600mm ABOVE THE 1% AEP PLUS 35% CLIMATE CHANGE LEVEL (BASED ON THE CORN BROOK 2017 MODEL) OR 150mm ABOVE PROPOSED GROUND LEVELS - WHICHEVER IS HIGHER.

DRAINAGE KEY:

- PROPOSED SITE BOUNDARY
- FINISHED FLOOR LEVEL — FFL 56.25
- PROPOSED SW SEWER
- PROPOSED SW SEWER ATTENUATION
- PROPOSED FW SEWER
- PROPOSED COMBINED SEWER
- EXISTING COMBINED SEWER
- EXISTING FW SEWER
- EXISTING SW SEWER
- EXISTING SEWER TO BE ABANDONED

MANHOLES -

FOR TYPICAL DRAINAGE CONSTRUCTION DETAILS REFER TO UNITED UTILITIES STANDARD DETAILS.

100mm DIA DRAIN, SUPERSLEEVE OR SIMILAR APPROVED. 150mm DIA HEPSLEEVE OR SIMILAR APPROVED FOR ALL CONNECTIONS TO SEWERS/MANHOLES AND WHERE NOTED.

Rev.	Amendment	Date	By	Chkd
P05	DRAINAGE RE-DESIGNED TO SUIT REVISED ARCHITECTS LAYOUT.	21.04.21	RH	KPT
P04	LEVELS ADDED TO DRAINAGE DESIGN.	09.10.20	RH	KPT
P03	FINISHED FLOOR LEVELS ADDED, DRAINAGE UPDATED.	30.01.20	RH	KPT
P02	REVISED LAYOUT ADDED, DRAINAGE UPDATED.	15.01.20	RH	KPT
P01	FRA ISSUE	11.11.19	RH	KPT

Project
MAYTON STREET
OPENSHAW

Client
ECO-RES LLP

Title
DRAINAGE STRATEGY PLAN

WML Job No.	Drawn	Checked	Date	Scale
8755G	RH	KPT	NOV 2019	1:250 @ A1

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Drawing No.

Project	Originator	Volume	Level	Type	Role	Number	Rev
8755G	WML	00	XX	DR	C	0002	P05