

DUE TO PROPOSED FINISH LEVELS, DOWNSTREAM CHAMBER WILL REQUIRE A NON-RETURN VALVE TO MAXIMISE STORAGE AT SHALLOW DEPTH WITHIN THE SYSTEM.

FOUL SYSTEM TO DISCHARGE INTO THE HIGHWAY UNDER GRAVITY, FURTHER SURVEY WORKS REQUIRED TO CONFIRM APPROPRIATE LOCATION AND INVERT LEVEL


PROPOSED DRAINAGE SYSTEM TO UTILISE AN EXISTING PIPE CONNECTION INTO THE RIVER. IL ASSUMED AT 16.50, TBC

- GENERAL NOTES**
- DO NOT SCALE THIS DRAWING.
 - CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO THE ENGINEER.
 - ANY DISCREPANCY TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, SUBCONTRACTORS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
- KEY**
- DCWV ADOPTABLE FOUL DRAINAGE SYSTEM
 - LA ADOPTABLE STORM DRAINAGE SYSTEM
 - LA ADOPTABLE PERFORATED STORM DRAINAGE SYSTEM
 - HIGHWAY ADOPTABLE POROUS BLOCKWORK SURFACE FINISH
 - HIGHWAY ADOPTABLE POROUS ASPHALT SURFACE
 - HIGHWAY ADOPTABLE SERVICE STRIP, BLOCKWORK SURFACE FINISH
 - HIGHWAY ADOPTABLE RAISED TABLE, BLOCKWORK SURFACE FINISH, TYPE 3 SUBBASE
 - PRIVATELY MAINTAINABLE POROUS DRIVEWAY SURFACE
 - PRIVATE PLOT BIO-RETENTION SYSTEM COLLECTING PLOT RUNOFF

DRAINAGE STRATEGY
SURFACE WATER
 SUBJECT TO INFILTRATION TESTING, THE DRAINAGE LAYOUT PRESENTED IS BASED ON A POSITIVE DRAINAGE SYSTEM DISCHARGING INTO THE ADJACENT RIVER VIA AN EXISTING PIPE CONNECTION.
 SHOULD INFILTRATION TESTING DEEM TO BE A SUITABLE METHOD OF SURFACE WATER DISPOSAL, AT SOURCE STRATEGY WILL BE MAXIMISED, AND MAJORITY OF PIPEWORK WILL BE OMITTED.
 BASED ON A POSITIVE CONNECTION INTO THE RIVER, THE SITE IS PROPOSED TO DISCHARGE AT 9lt/sec/ha. MULTIPLE SuDs FEATURES ARE PROPOSED ACROSS THE SITE, POROUS SURFACES TO COLLECT HIGHWAY RUNOFF WITH RAINWATER BUTTS, RAINGARDENS AND PERMEABLE DRIVEWAYS AT EACH PLOT.
 THE PROPOSED HIGHWAY SUBBASE WILL BE UTILISED AS STORAGE FACILITY ACROSS THE SITE, WITH VARIOUS FLOW CONTROL DEVICES PROPOSED AT CHANGE IN FINISH LEVELS.

IN ACCORDANCE WITH THE SAB STANDARDS
STANDARD 1
 • REUSE - SURFACE WATER RUN-OFF TO BE COLLECTED WITHIN SOFT LANDSCAPED AREAS, REUSED BY THE HYDRATION OF PLANTING. WATER BUTTS ARE PROPOSED AT EACH INDIVIDUAL PROPERTY.
 • INFILTRATION - BASED ON A DESKTOP STUDY, INFILTRATION SHOULD BE A VIABLE OPTION, GROUND INVESTIGATION IS REQUIRED TO CONFIRM.
 • WATER BODY - SHOULD INFILTRATION BE DEEMED UNVIABLE, A CONNECTION INTO THE RIVER UTILISING AN EXISTING PIPE IS PROPOSED.
 • SURFACE WATER SEWER - NOT REQUIRED FOR THIS DEVELOPMENT
 • COMBINED SEWER - NOT REQUIRED FOR THIS DEVELOPMENT
STANDARD 2
 • FIRST 5mm OF RAINFALL FROM THE IMPERMEABLE AREAS WILL BE INTERCEPTED AND STORED WITHIN A VARIETY OF SuDs FEATURES, INCLUDING RAINGARDENS AND PERMEABLE HIGHWAYS.
 • SURFACE WATER SYSTEM TO BE DESIGNED TO FOR A RETURN PERIOD OF 100YRS + 30% CLIMATE CHANGE.
 • GIVEN SITE LEVELS, SHOULD THE FLOW CONTROL DEVICES BLOCK, RUNOFF WILL BE DIRECTED TOWARDS THE RIVER ALONG THE EASTERN BOUNDARY AND NOT PROPOSED DWELLINGS.
 • THE SUGGESTED SOIL INDEX FOR THE DEVELOPMENT SITE IS 2, AS THE SITE IS BROWNFIELD, WITH AREAS OF HARDBAVED, BUT NO DIRECT CONNECTION INTO THE RIVER, IT IS PROPOSED TO INCREASE THE SOIL INDEX TO 4 TO CLOSELY REPRESENT ONSITE CONDITIONS.

FOUL WATER
 • A GRAVITY FOUL SYSTEM IS LIKELY TO BE A VIABLE OPTION AT THIS DEVELOPMENT SITE. DISCHARGING WITHIN THE HIGHWAY. FURTHER SURVEY OF THE EXISTING SYSTEM IS REQUIRED.



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Client: Obsidian Developments Ltd

Project: HOUSING DEVELOPMENT ST MARY'S STREET WHITLAND

Drawing Title: LAYOUT PLAN DRAINAGE

PRELIMINARY

A REMOVED EXISTING FOOTBRIDGE	TE 28.11.22
Rev. Detail	By Date
Revisions	
Reinforcement schedules nos.	

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