1:125@ A1
1:250@ A3

0 2 4 6 8 10 12 m

N

Notes: A1

DRAINAGE NOTES:

1. All drainage works to be constructed in strict accordance with specification of the Local Authority, Building Regulations, Water Uk Sector Guidance, BS8301 & BSEN.752-1.
2. For location and setting out of building drainage points refer to architects drawings.
3. All pipe runs near buildings to comply with the Building Regulations 2002 part h1. Where a pipe is within 1m of a foundation the trench shall be filled with class gen3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class gen3 concrete to a level below the lowest level for the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN3 concrete.
4. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN3 concrete encasement (150mm thick).
5. Where a pipe, under a carriageway, has a depth of cover of less than 1.2m the pipe shall be laid in a concrete bed and surround.
6. In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. compressible boards (fibreboard or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). the boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. a board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
7. All private building drainage shall be constructed in strict accordance with BS EN.752-1. unless otherwise specified building drainage shall be 100mm diameter and shall be laid at a minimum gradient of (<1l/s = 1 in 40/>1l/s = 1 in 80) for foul drains and 1 in 80 for surface water drains. all building drains shall be laid in conjunction with 'non adoptive bedding details' (class d, n or b) unless otherwise specified.
8. All pipes, bends and junction for private building drainage shall be UPVC conforming to BS4660 and BS5481 as appropriate and shall be laid in accordance with the manufacturer's specification. All pipes, bends and junction materials for adoptable drainage shall be vitrified clay, extra strength or super strength to BSEN295, with flexible joints and kitemark certified
9. All back inlet gullies to be roddable or connected to inspection chambers.
10. All gully connections other than at manholes to be 'y' junctions.
11. All road gully connections to be 150mm diameter.
12. All stub stacks to be fitted with air admittance valves where branch drain exceeds 12m except at the head of the run. Soil vent pipes located at the head of a run to terminate to fresh air.
13. All connections to be soffit to soffit unless otherwise noted.
14. All concrete and concrete products to be in accordance with BRE 363 for sulphates.
15. The locations of all svps and rwps shall be cross referenced against the architects drawings during setting out.
16. Before connections are made to existing public sewers an application under 106 must be made to relevant sewerage undertaker.
17. The precise depth and location and size of existing pipes or manholes where connections or diversion are proposed must be confirmed and reported to the engineer at the earliest opportunity.
18. Where inspection covers are located in areas of block paving or paving slabs they shall be fitted with recessed covers and infilled with the adjacent material.
19. Existing drains - any existing drains to be abandoned to be decommissioned in view of building regulations by either building out, infilled or sealed.

Rev	Date	Revisons	Drwn	Chk
C5	03.05.24	Drainage updated to Client comments	LG	GW
C4	08.02.24	Drainage updated to rear carpark	LG	GW
C3	21.08.23	Existing connection updated for lining	LG	GW
C2	01.06.23	Updated SVP locations	LG	GW
C1	04.04.23	Construction Issue.	LG	GW
P3	19.01.23	Foul Drainage positions updated. Existing Rising Main diverted.	LG	GW
P2	25.11.22	FFL updated, external levels and drainage updated to suit	LG	GW
P1	22.11.22	Preliminary Issue	LG	GW

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Client: Sunninghill Construction

Project: The Cobblers Slinfold

Drawing Title: Drainage Layout

Scale:	Date:	Drawn:	Checked:
1:125	NOV 22	LG	GW

Drawing No: WG1442/201 Rev: C5

RESIDUAL HAZARDS

In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following:

1. Unknown services/depths within work zone. Contractor to undertake necessary precautions and investigation prior to excavating. Particular caution should be taken with the existing Southern Water Rising Main crossing the site. Location of the Rising Main should be accurately marked onsite through trial pitting and extreme caution taken when working near it.
2. Existing Overhead Power and Telecoms Cables. Contractor is to prepare a method statement to ensure operatives are familiar and competent with the dangers of working near overhead cable.
3. The works will involve the movement of plant and machinery within a live carriageway and footway. There is a risk of potential conflict between plant/machinery and private vehicles/pedestrians. Contractor to undertake necessary precautions and ensure suitable traffic management is in place prior to commencement.
4. Working in live sewers. Contractor to ensure operatives are familiar and competent with the dangers of working in live sewers.
5. Excavations within existing tree root zones. Contractor is to seek advice from an Arboriculturalist and work to the methodology and requirements set out in the Arboriculturalist's report.
6. Deep excavations associated with the drainage installation. Contractor is to ensure suitable temporary works are in place to ensure the safety of operatives and the public (where necessary). Contractor to ensure operatives are familiar and competent with the dangers of working in deep excavations.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved risk assessment and method statement

SURFACE WATER DRAINAGE		POROUS PAVING (Tanked System - with impermeable membrane)	FOUL WATER DRAINAGE	
EXISTING SURFACE WATER DRAINAGE		PROPOSED PERFORATED PIPE LAID WITHIN POROUS PAVING SUBBASE (Refer to Drg. WG1306/251 for further detail)	EXISTING FOUL WATER SEWER	
PROPOSED SURFACE WATER DRAINAGE		EXTENTS OF PROPOSED TRENCH WITHIN ROAD SUBBASE CONSTRUCTION (Refer to Drg. WG1306/251 for further detail)	PROPOSED FOUL WATER DRAINAGE	
PROPOSED SURFACE WATER RISING MAIN (Size / Design to be confirmed by manufacturer)		DIFFUSER UNIT (150mm deep) (Permavoid Diffuser Min Dimensions 708mm x 1062mm)	EXISTING FOUL WATER RISING MAIN	
SW# CL ##.## IL ##.## (450/600Ø/CP)		CHANNEL DRAIN (100mm wide, Heelguard grating, trapped gully outlet) TD - Threshold Drain	PROPOSED FOUL WATER RISING MAIN POSITION (Subject to S185 Agreement, design by Southern Water)	
SW# CL ##.## IL ##.## (250Ø)		CELLULAR STORAGE TANK (Vented)	FW# CL ##.## IL ##.## (450/600Ø)	TYPE 3 INSPECTION CHAMBER (Max 3m depth to invert) Chambers deeper than 1.2m to be non-entry.
RE IL ##.##		CELLULAR STORAGE TANK VENT (To be positioned in non-trafficed location)	FW# CL ##.## IL ##.## (250Ø)	TYPE 4 INSPECTION CHAMBER (Max 0.6m depth to invert)
Hydrobrake CL##.## IL##.## ##/s @ ##m head	HYDROBRAKE FLOW CONTROL DEVICE (or similar approved vortex flow control device)	Pump Station CL ##.## IL ##.## (###Ø)	PUMPING CHAMBER (See specialist details for size and other information)	FOUL GULLY
			MISC	
			FFL ##.###	PROPOSED BUILDING FINISHED FLOOR LEVEL
			+##.##	EXISTING SPOT LEVEL

1. This drawing is to be read in conjunction with all other WGC drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
2. WGC accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
3. Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.
4. Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain. The main contractor is responsible for checking all information on site prior to work commencing and taking due care whilst undertaking the works.
5. All dimensions to be checked on site. All details and dimensions relating to sub-contractors work must be checked and agreed between the sub-contractor or supplier and the general contractor.
6. The electronic information from this drawing can not be guaranteed as dimensionally drawn exact. Figured dimensions must be used for setting out and detailing. WGC logos and company information must be removed from copies if information is re-used.
7. The main contractor is responsible for the design of all temporary works, and is also responsible for the safe maintenance and stability of existing buildings at all times.
8. The main contractor is responsible for dealing with all occurrences of ground water during the construction period.
9. The contractor must comply with all current legislation relating to health & safety.
10. All products specified shall be installed in strict accordance with the manufacturers recommendations and instructions. If there are discrepancies between that information and the details on any WGC drawings, the manufacturers instructions must be used.
11. All Earthworks in accordance with the Specification for Highway Works.

CONSTRUCTION
SUBJECT TO PLANNING APPROVAL

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Proposed Porous Paving. (Formation Level - 19.350)

Existing Surface Water Connection to be lined by Specialist Contractor. Subject to their review of the existing pipe.

Hydrobrake CL 20.150 IL 19.250 5l/s @ 0.75m head (1240x675)

Cellular Attenuation Tank Wavin Aquacell 'CORE-R' or similar 1.5m(w) x 5.0m(l) x 0.4m(dp) Base Level - 19.300 Min. cover 0.3m landscaped loading only. If loading is intended to be greater than just landscaping increased cover may be required in the temporary situation. (Dummy Pipe - 5.001)

Due to position of existing Rising Main in close proximity to the proposed building a S185 Diversion agreement will need to be agreed with Southern Water in order to relocate the existing rising main. Please refer to drawing WG1430/400 for further detail.

Existing Rising Main Position. This has been recorded by Trial Pitting by Contractor onsite. The depth of the rising main through out the site is recorded as 0.95m BGL.

Existing car parking area drained via gully. Garage blocks discharge surface water on to ground. Existing Gully and connection to be stopped up and grubbed out where necessary.

Existing manhole cover to be adjusted to suit new levels

Existing Southern Water Pumping Station

Pumping Chamber 1.3l/s (Twin Pump) CL 20.200 IL 17.200 (1200Ø) (Details to be confirmed by manufacturer)

Overflow pipe between Pumping Chamber and manhole S11. Outfall at pumping chamber set at IL 19.800

Cellular Attenuation Tank Wavin Aquacell 'CORE-R' or similar 5.0m(w) x 6.0m(l) x 1.6m(dp) Base Level - 17.250 Min. cover 1.2m for HGV Loading (Dummy Pipe - 2.001)

HAYES LANE

SCOUT HUT

FFL 20.375

SHED

Ex.FWMH (FIC5) CL 20.040 IL ##.### Dp #.###m (From Contractor Survey)

Ex.FWMH (FIC4) CL 20.190 IL ##.### Dp #.###m (From Contractor Survey)

Ex.FWMH (FIC2) CL 20.210 IL 18.915 Dp 1.295m (From Contractor Survey)

Ex.FWMH 8202 CL 20.210 IL 18.760 Dp 1.450m (From Contractor Survey)

Ex.FWMH 9202 CL 20.090 IL 17.160 Dp 2.930m (From Sewer Records)

Ex.FWMH 8206 CL TBC IL TBC Dp TBCm (From Sewer Records)

Ex.FWMH 8203 CL 20.060 IL 16.170 Dp 3.890m (From Sewer Records)

Ex.FWMH 8211 CL 20.040 IL TBC Dp TBCm (From Sewer Records)

Ex.SWMH (SW1) CL 20.000 IL 19.200 Dp 0.800m (From Survey)

Ex.SWMH (SW.Main) CL 19.900 (tbc) IL 19.185 Dp TBCm (From Survey)

Dp TBCm (From Sewer Records)

<< Ex.SW Sewer 150mmØ

<< Ex.FW Rising Main 100mmØ

<< Ex.FW Sewer 150mmØ

Tarmac

Grass

Concrete Ramp

Paved

Hedge

Pumping Station RFL 23.07

SCOUT HUT RL 27.52

Ex.FWMH 8211 CL 20.040 IL TBC Dp TBCm (From Sewer Records)