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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.
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 school playground. There is a risk of potential conflict between plant/machinery and the school personnel / children. 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 of soakaways & manholes. 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

DRAWING LEGEND

SURFACE WATER DRAINAGE		FOUL WATER DRAINAGE	
	EXISTING SURFACE WATER DRAINAGE		EXISTING FOUL WATER SEWER
	PROPOSED SURFACE WATER DRAINAGE		PROPOSED FOUL WATER DRAINAGE
SW# CL ##.## IL ##.## (450/600Ø/CP)	TYPE 3 INSPECTION CHAMBER (Max 3m depth to invert, CP denotes Catchpit) Chambers deeper than 1.2m to be non-entry.		PROPOSED FOUL WATER PUMPED MAIN (Size to be confirmed by Manufacturer)
RE IL ##.##	RODDING EYE	Pump Station CL ##.## IL ##.## (####Ø)	PUMPING CHAMBER (See specialist details for size and other information)
	CELLULAR SOAKAWAY (Vented)	MISC	
Vent	CELLULAR STORAGE TANK VENT (To be positioned in non-trafficed location)	FFL ##.###	PROPOSED BUILDING FINISHED FLOOR LEVEL
Channel	CHANNEL DRAIN (100mm wide, Heelguard grating, trapped gully outlet) TD - Threshold Drain	##.##	PROPOSED SPOT LEVEL
		##.##	EXISTING SPOT LEVEL
		1:80	GRADIENT OF FALL

PRELIMINARY

From the site visit this manhole was measured at only 0.4m deep.

FW
Packaged Pump Station
TT Pumps 'Venus' Dual Pump (or similar)
Encased in a minimum of 300mm thick concrete.
CL 5.300
Incoming IL 4.950
Base Level 3.000 (Based on 2.3m Dp unit)
Volume of storage below incoming IL would equate to 1.53m³ (1530 litres).
Therefore, at 10litres per toilet flush this would equate to 153 flushes for the 24hr storage period.
Estimated usage for this single toilet would only be in the region of 30-50 flushes per day. Therefore way below the avaliable storage.
(1000Ø)

Level difference of approx. 800mm between proposed / existing levels.
If existing seating area is removed, area is to be graded (1 in 3 max).
If existing seating area is to remain a retaining wall would be required.
Client / Architect to confirm final arrangement.

RWP indiacted as 150mm diameter on Architectural Layout.
Below ground pipework to be a minimum of 150mm to connect RWP's.

NOTE:
SERVICE ROUTES INDICATIVELY SHOWN.
FOR FINAL LAYOUT AND DESIGN INFORMATION PLEASE REFER TO DELTA GREENS DRAWINGS AND INFORMATION

Tie in with existing levels

Existing Wall shortened to allow for proposed layout.

Level difference between existing Concrete Hardstanding / Proposed path levels to be reviewed onsite. If nesscary a HB2 kerb to be installed along hardstanding edge.

Existing Concrete Hardstanding to remain

EXISTING SOAKAWAY FOR PREVIOUS SCHOOL EXTENSION.
Soakaway Size - 5m (w)x 20m(l) x 2m(dp)
Top Level - 4.50
Base Level - 2.50

Soakaway to be postioned a minimum of 10m away from existing / proposed buildings. Proposed Soakaway to be positioned a minimum of 10m away from existing soakaway

CELLULAR SOAKAWAY
Wavin Aquacell 'CORE-R' or similar
3.0m (w) x 14.0m (l) x 1.2m (dp)
Base Level - 4.40
(Min. cover 0.6m)
(Vehicle Loading - Pedestrian / Grass Cutting Only)

Ex.FWMH
CL 5.37
IL 4.94
(Measured onsite)

PUMPED MAIN >>
<< Existing SW Drain 100Ø
Existing SW Drain 100Ø >>
Existing SW Drain 150Ø >>
Existing SW Drain 150Ø >>

RE
CL 5.700
IL 5.200

SW
CL 6.250
IL 5.100
(450Ø/CP)

2.001 - 150Ø 9.36m 1:80

IL 5.000

1.001 - 150Ø 10.61m 1:35

IL 5.200

SW
CL 6.350
IL 5.500
(450Ø/CP)

RE
IL 5.700

1.000 - 150Ø 12.08m 1:81
ACO Hexdrain
(B125)

TD

FFL 6.300

FFL 6.300

1:125 @ A1
1:250 @ A3
0 2 4 6 8 10 12 m

Notes: A1

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.

DRAINAGE NOTES:

1. All drainage works to be constructed in strict accordance with specification of the Local Authority, Building Regulations, Sewers for Adoption, 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
P3	23.08.22	Service Routes indicatively shown	LG	GW
P2	17.06.22	Updated to latest Soil Investigation Report. Threshold drains removed as per Architects comments.	LG	GW
P1	06.06.22	Preliminary Issue	LG	GW

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Client:
Seaside Primary School

Project:
New Sports Hall
Seaside Primary School, Lancing

Drawing Title:
Drainage and Levels Layout

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

Drawing No: WG1275/201
Rev: P3