Legend

- PROPOSED SURFACE WATER DRAINAGE (TYPICALLY 100Ø FROM RWP AND 150Ø FROM GULLY UNO.)
- PROPOSED SURFACE WATER PRECAST CONCRETE CHAMBER.
- RWP — PROPOSED RAINWATER DOWNSPOUT (ASSUMED).
- PROPOSED FOUL DRAINAGE (TYPICALLY 100Ø UNO.)
- PROPOSED FOUL PRECAST CONCRETE CHAMBER.
- PROPOSED FOUL POLYPROPYLENE INSPECTION CHAMBER.
- FO — PROPOSED FOUL OUTLET (ASSUMED).
- PROPOSED CELLULAR ATTENUATION STORAGE SYSTEM.
- PROPOSED TANKED PERMEABLE PARKING BAY.
- SU — PROPOSED DRAINAGE CHANNEL (AND SUMP OUTLET WITH A RODDABLE AIR TRAP.
- FW (B2) — EXISTING FOUL SEWER
- 4m EASEMENT IN ACCORDANCE WITH DWCC CONSULTATION RESPONSE

Notes

1. THE WORKS SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING SPECIFICATION.
2. THE LOCATION LINE & LEVEL OF ALL KNOWN EXISTING DRAINAGE PIPEWORK INDICATED ON THE DRAWINGS ARE APPROXIMATE AND FOR GUIDANCE PURPOSES ONLY.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXACT LINE AND LEVEL, BY WAY OF HAND EXCAVATED TRIAL PITS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS ON SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND MAINTAIN THE STRUCTURAL INTEGRITY OF ALL ABOVE AND BELOW GROUND SERVICE INSTALLATIONS.
4. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THROUGHOUT THE DURATION OF THE CONTRACT A FULL TRAFFIC MANAGEMENT SYSTEM TO ENSURE SAFE PASSAGE OF VEHICLES/PEDESTRIANS IN THE VICINITY OF THE WORKS. ALL TRAFFIC SIGNS, SIGNALS, BARRIERS ETC. SHALL BE IN ACCORDANCE WITH CHAPTER 8 OF THE TRAFFIC SIGNS MANUAL.
5. THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR DEALING WITH AND DISPOSING OF GROUND/SURFACE WATER ENCOUNTERED DURING EXCAVATIONS
6. ALL SOFT / HARD PAVED AREAS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED FOLLOWING THE INSTALLATION OF ALL DRAINAGE WORKS. ALL SURFACE MARKINGS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED.
7. ALL SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED IN A DESIGNATED AREA ON SITE.
8. UPON COMPLETION OF THE WORKS THE CONTRACTOR SHALL PROVIDE AS BUILT SETTING OUT CO-ORDINATE AND LEVEL INFORMATION.
9. PIPEWORK WITH LESS THAN 750mm OF COVER IN TRAFFICKED AREAS TO BE CONCRETE ENCASED. (BEDDING CLASS Z)
10. PIPEWORK WITH MORE THAN 750mm OF COVER TO HAVE CLASS S GRANULAR BED AND SURROUND.
11. POLYPROPYLENE INSPECTION CHAMBERS OF 500Ø > 1.2m DEEP TO BE FITTED WITH A REDUCED ACCESS FITTING.
12. ALL SOIL AND VENT PIPES TO HAVE A LOW LEVEL ACCESS PLATES.
13. FOR 3 TO 4 STORY BUILDINGS - FOUL REST BEND TO BE A MINIMUM OF -450mm DEEP.
14. FOR 5 STORY BUILDINGS AND ABOVE - FOUL REST BEND TO BE A MINIMUM OF -750mm DEEP.
15. FOR 6 STOREY BUILDINGS AND ABOVE - GROUND FLOOR APPLIANCES TO DISCHARGE TO THEIR OWN STACKS.
16. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECT'S, ENGINEER'S AND SPECIALIST'S DRAWINGS TOGETHER WITH THE APPROPRIATE SPECIFICATION.
17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL DIMENSIONS ON SITE. DIMENSIONS MUST NOT BE SCALED FROM THIS DRAWING. ANY DISCREPANCIES TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT IN WRITING.
18. THIS DRAWING IS THE COPYRIGHT OF TIER CONSULT LTD AND CANNOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN CONSENT FROM THE COMPANY.
19. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECT'S, ENGINEER'S AND SPECIALIST'S DRAWINGS TOGETHER WITH THE APPROPRIATE SPECIFICATION.
20. ALL DIMENSIONS ARE IN METRES UNO, FOR THE PURPOSES OF CONSTRUCTION THIS DRAWING MUST NOT BE SCALED AND ONLY WRITTEN DIMENSIONS USED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK ALL DIMENSIONS ON SITE PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER IN WRITING.
21. ALL LEVELS ARE IN METRES UNO & TO OS DATUM.

FFL: 30.940m

LINEAR DRAINAGE CHANNEL

600Ø @ 1:300 (4.003 L=97.543m)

600Ø @ 1:300 (4.003 L=97.543m)

RWP

S6
CL 30.593
IL 28.335
1800Ø PCC

675Ø @ 1:300 (1.004 L=56.954m)

S9
CL 29.740
IL 28.590
1500Ø PCC

300Ø @ 1:125 (3.000 L=39.888m)

750Ø @ 1:350 (4.004 L=39.238m)

F8
CL 30.799
IL 27.911
1200Ø PCC

S15
CL 30.692
IL 28.050
1500Ø PCC

150Ø @ 1:100

F9
CL 30.552
IL 27.746
1200Ø PCC

EX. FMH1
CL 29.48
IL 27.27

S7
CL 30.516
IL 28.072
1800Ø PCC

750Ø @ 1:300 (1.005 L=46.394m)

S16
CL 30.460
IL 27.918
2100Ø PCC

S16
PROPOSED FLOW CONTROL MANHOLE
SURFACE WATER DISCHARGE 1.3l/s
(GREENFIELD RATE)
MD-SHE-0051-1300-1200-1300
CL 30.501
IL 27.572
1500Ø PCC

2400Ø (18.000 m³)
L=11.460m

150Ø @ 1:100

EX. FMH2
CL 29.62
IL 27.11

150Ø @ 1:100 (6.983 L=18.986m)

S8
CL 30.797
IL 27.818
1500Ø PCC

PROPOSED 'SPEL' PURACEPTOR ESR P500/1C/ESR 600 SERIES. IN ABEYANCE SUBJECT TO CATCHMENT AREA REVIEW.
CL 30.490
IL 27.923

F10
CL 31.083
IL 27.273
1200Ø PCC

EX. FMH3
CL 29.63
IL 27.09

STORMBLOC® EXTRA FULL BLOCK TO BE USED.
CELLS TO BE 0.8m x 0.8m x 0.66m
37 CELLS X 38 CELLS X 3 CELLS
POROSITY - 96%
CAPACITY - 2161.401m³
MIN. COVER - 0.8m

POTENTIAL SUDS
580M2

PROPSED SW DISCHARGE INTO EXISTING WATERCOURSE VIA HEADWALL. SUBJECT TO AGREEMENT WITH LCC.

PROPOSED 1.98m DEEP x 1136m² CELLULAR ATTENUATION SYSTEM TO ACHIEVE A VOLUME OF 2161m³ AT 96% POROSITY TO CATER FOR THE 1 IN 100 YEAR EVENT +40% FOR CLIMATIC CHANGE. CELLULAR ATTENUATION SYSTEM TO BE FULLY ENCAPSULATED WITH A 1mm THICK IMPERMEABLE MEMBRANE. ALL JOINTS TO BE FULLY WELDED. ALLOW FOR PROVIDING VENT PIPES TO BE LOCATED IN SOFT (EXACT NUMBER AND LOCATION TO BE AGREED). ACCESS POINTS AND INSTALLATION TO BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
CL 30.542
IL 29.667 (Top of Unit)
IL 27.687 (Base of Unit)

1500Ø @ 1:100

F11
CL 29.456
IL 26.931
1200Ø PCC

150Ø @ 1:72

EX. FMH4
CL 29.20
IL 26.74

DISCHARGE OF FOUL FLOWS AND CONNECTION IN ABEYANCE, SUBJECT TO RESOLUTION FROM MODELING STUDY ASSOCIATED WITH UTOPIA DEVELOPMENT.

PROPOSED FOUL CONNECTION
CL 29.20
IL 26.74 (EX. 225Ø)
IL 26.815 (PROPOSED 150Ø)

PRELIMINARY

Rev	Date	By	Description	Appd
P3	06-05-2025	ESG	Ex. foul sewer added. Proposed foul updated to suit.	WNL
P2	15-11-2024	ESG	Updated to Suit Levels	WNL
P1	04-11-2024	ESG	Preliminary Issue	WNL

Revisions

Status

PRELIMINARY

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Client

MAUNA KEA LTD

Project

LAND SOUTH BRYN LANE, WREXHAM

Title

FOUL AND SURFACE WATER DRAINAGE LAYOUT - SHEET 2

Scale	Drawn	Revision
1:250@A1	ESG	P3
Date	Checked	
Nov'24	WL	

Drawing Ref :
ProjectOriginator|Volume|Level|Type|Role|Number

2721-TCG-XX-XX-DR-C-5502