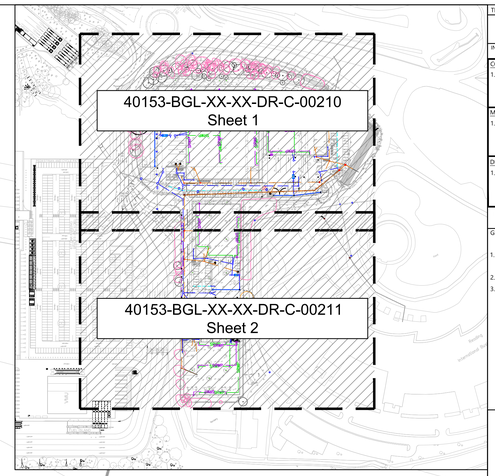

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING

CONSTRUCTION
1. Add residual risks here

MAINTENANCE
1. Add residual risks here

DEMOLITION
1. Add residual risks here

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

GENERAL NOTES:

1. This drawing shall be read in conjunction with all the relevant architects, engineers' and service engineers drawings & specifications.
2. All units in millimeters U.O.N. on the drawing.
3. Do Not Scale off the drawing.

KEY:

- Site Boundary
- S.S.L. ??.??m — Proposed Building Level
- SW00 — Proposed Surface Water pipe & Chamber
- FW00 — Proposed Foul Water pipe & Chamber
- Proposed Linear Channel Drain Castslot Treadsafe (to be installed as per manufacturer's details)
- Proposed Kerb Drain (to be installed as per manufacturer's details)
- Proposed Perforated
- Proposed Vent Pipe
- Attenuation Tank
- Proposed Soakaway System
- RG — Proposed Road Gully
- KDG — Proposed Kerb Drain Gully
- AP — Access Point
- SU — Linear Channel Gully Unit
- SRWP — Syphonic Rainwater Downpipe
- VC — Vented Cover
- RE — Proposed Rodding Eye

High Level Roof Syphonic
- SPRP — Preliminary Syphonic Route
- SPRP — Secondary Syphonic Route

Existing Drainage Network
- EX MH — Existing Surface Water pipe & Chamber
- EX MH — Existing Foul Water pipe & Chamber
- Existing line to be removed

Class 1 NSFA050 Full Retention Petrol Separator with Power, high level alarm and Vents 3750 In/Out
ALLOW FOR A SINGLE PHASE POWER SUPPLY, SILT CAPACITY, KIOSK, VENTING. CLIENT TO CONFIRM KIOSK LOCATION AND WHETHER AUDIBLE AND/OR VISUAL HIGH LEVEL ALARM. EITHER 2No. 100mm DIAMETER DUCTILE IRON VENT PIPES TERMINATED IN MANIFOLDS NOT LESS THAN 2.5m ABOVE GROUND OR VENTED MANHOLE COVER. INSTALL IN ACCORDANCE WITH MANUFACTURES DETAILS.

Existing foul water lateral to remain and use as alternative connection. Subject to CCTV survey & pipe condition.

Ex. Foul Water Sewer Ø225mm @ 1:16

Ex. Foul Water Sewer Ø225mm @ 1:198

<<HIGH LEVEL SYPHONIC PIPE

HIGH LEVEL PRELIMINARY AND SECONDARY SYPHONIC TO SPECIALIST DESIGN

SSL 41.100m

SSL 40.925m

Geocellular Attenuation D400 Loading
PSM1A (Tank 2)
644m³ x 0.800m deep Units (515.20m³ Tank Size / 489.44m³ Attenuation @ 95%)
Bed Level: 38.650mAOD
Top of Tank: 39.450mAOD
Mn Depth of Cover: 0.75m
Wrapped in Geotextile Membrane and Vented. Designed by Provider to Suit Loading in Both Temporary and Permanent Situations.

Geocellular Attenuation D400 Loading
PSM1A (Tank 1)
314m³ x 0.800m deep Units (299.2m³ Tank Size /284.24m³ Attenuation @ 95%)
Bed Level: 39.000mAOD
Top of Tank: 39.80mAOD
Min Depth of Cover: 0.75m
Wrapped in Geotextile Membrane and Vented. Designed by Provider to Suit Loading in Both Temporary and Permanent Situations.

Lined Permeable Paving (System C)
No ground Infiltration with sealed outlet.
350mm Subbase to be SHW Type 3 material CL 805 to act as a drainage blanket water storage and 150mm Ø perforated pipe.

SVPs & SS ARE SHOWN AS INDICATIVE & TO BE CONFIRMED by Architect

Outlet pipe to have a Hydro-Brake flow regulator by Hydro International, or similar approved, to limit flow to 5 l/sec. Design Head = 2.0m Final diameter of manhole, and any additional sump requirement, to be confirmed by flow regulator specialist.

Outlet pipe to have a Hydro-Brake flow regulator by Hydro International, or similar approved, to limit flow to 1.5 l/sec. Design Head = 1.0m Final diameter of manhole, and any additional sump requirement, to be confirmed by flow regulator specialist.

Outlet pipe to have a Hydro-Brake flow regulator by Hydro International, or similar approved, to limit flow to 5 l/sec. Design Head = 1.5m Final diameter of manhole, and any additional sump requirement, to be confirmed by flow regulator specialist.

Existing Manhole to remain. Cover & Frame to be adjusted to match design level.

Existing pipe to remain.

Existing culvert

Existing Petrol Interceptor to be broken out

Connection to public sewer line subject to S106 approval

Orifice Plate 60mm Design Head 0.5m

Foul Water Pumping Station Duty/Standby/24HRS Emergency Storage Rate: 3.0 l/s Chamber Size & Pump Specification to be Determined by Specialist Pump Supplier. Telemetry Details to be Agreed with Client

Rising Main by specilist design

Existing pipe lateral to be capped

Orifice Plate 60mm Design Head 0.5m

Y- Junction connection to public sewer line subject to S106 approval

D400 HEAVY DUTY SLOT DRAINAGE >>

<<D400 HEAVY DUTY SLOT DRAINAGE

<<HIGH LEVEL SYPHONIC PIPE >>

Class 1 NSFA030 Full Retention Petrol Separator with Power, high level alarm and Vents 300Ø In/Out
ALLOW FOR A SINGLE PHASE POWER SUPPLY, SILT CAPACITY, KIOSK, VENTING. CLIENT TO CONFIRM KIOSK LOCATION AND WHETHER AUDIBLE AND/OR VISUAL HIGH LEVEL ALARM. EITHER 2No. 100mm DIAMETER DUCTILE IRON VENT PIPES TERMINATED IN MANIFOLDS NOT LESS THAN 2.5m ABOVE GROUND OR VENTED MANHOLE COVER. INSTALL IN ACCORDANCE WITH MANUFACTURES DETAILS.

REV	DATE	BY	DESCRIPTION	CHKD
C04	11.03.2026	SN	Arch drawing background updated	RM
C03	26.01.2026	SN	Foul pipes invert levels amended	RM
C02	01.12.2025	JJ	Foul pipe and manhole sizes updated.	SN
C01	20.10.2025	HS	Issued for Construction	SN
P06	09.10.2025	SN	Manholes covers amended	RM
P05	07.10.2025	SN	Tanks invert levels amended	RM
P04	03.10.2025	JJ	Drainage updated in line with the latest Architects layout.	SN
P03	31.08.2025	SN	Roof Syphonic routes amended	RM
P02	15.08.2025	SN	Attenuation Tank Spec Updated Syphonic downpipes updated	RM
P01	31.07.2025	HS	Preliminary issue	SN
T03	01.07.25	HS	Latest Architect layout shown	SN
T02	19.06.24	SN	Architect background updated. Rising Main route amended	RM
T01	12.06.24	SN	Issued for Tender	RM

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CLIENT
GRAFTONGATE

PROJECT
Reading International Logistics Park

DRAWING TITLE
Drainage Plan
Sheet 1 of 2

BGL PROJECT NUMBER	DRAWING STATUS	OFFICE
40153	CONSTRUCTION	SOUTH
SCALE @ A0	DATE	DRAWN BY / CHECKED BY
1:250	07.06.2024	SN / RM

DRAWING No: C178-BGL-XX-XX-DR-C-00210 REV C04

SCALE BAR 1:250 (0, 5, 10, 15, 20, 25)