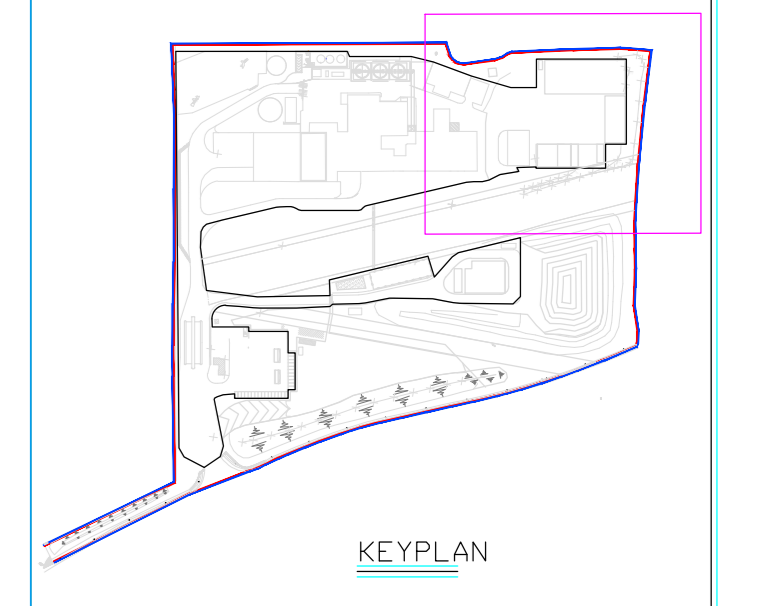


- NOTES:**
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED. LEVELS ARE STRUCTURAL LEVELS IN METRES TO ORDNANCE DATUM. THIS DRAWING MUST NOT BE SCALED.
- Legend:**
- Denotes extent of planned development
 - Denotes new berm and landscaping
 - Denotes existing wayleave
 - Site boundary
 - Existing foul water line
 - Proposed foul water line
 - Existing surface water line
 - Proposed surface water line
 - Proposed de-min water supply
 - Proposed de-min water reject line from HGU
 - Proposed new gas line from HGU
 - Proposed to HV cable to HGU
- Final Design Notes:**
1. The location of all existing services shall be confirmed prior to any excavation.
 2. Proposed foul water drainage pipework shall be 100mm UPVC pipework and fittings.
 3. Proposed foul water drainage designed to achieve a minimum self-cleaning velocity of 0.75m/s.
 4. All manhole covers shall be ductile iron solid top covers load class D400 to BS EN 124.
 5. Access junctions shall be 100mm HDPE with 125 ductile iron cover and shall be located in pedestrian areas only.
- Surface Water Drain Notes:**
1. Proposed surface water drainage designed to achieve a minimum self-cleaning velocity of 1.0m/s.
 2. Proposed drainage pipework shall be JPC Twin Corrugate pipework and fittings.
 3. All manhole covers shall be ductile iron solid top covers load class D400 to BS EN 124.
 4. The flow control device shall be a Hydrostone Optimiser vortex flow control by HSD Technologies.
 5. Design flow 4.0 l/s for 30yr return period storm.
 6. Design head 1.20m.
 7. All drainage channels in paved areas shall be ACO drainage channel and grading to local class D400 with wing walls and shall be located within road shoulders. The contractor shall provide for endcaps at the head of each channel.
 8. POFIS 3017-1987.
 9. Road gullies to be located to drain a maximum area of 200m². Guttering shall be sized to achieve a minimum wet area of 750cm².

PROPOSED SURFACE WATER MANHOLE SCHEDULE

MANHOLE REF	INVERT LEVEL	COVER LEVEL
SWMH100	28.643m	
SWMH101	28.750m	
SWMH102	28.620m	
SWMH103	28.950m	
SWMH104	29.000m	
SWMH105	28.957m	
SWMH106	29.169m	
SWMH107	29.340m	
SWMH108	28.743m	
SWMH109	28.870m	
SWMH110	29.864m	
SWMH111	29.678m	
SWMH112	28.395m	
SWMH113	28.581m	
SWMH114	29.267m	
SWMH115	30.832m	
SWMH116	31.276m	
SWMH117	31.756m	
SWMH118	32.335m	
SWMH119	32.935m	
SWMH120	33.484m	
SWMH121	34.000m	
SWMH122	34.700m	
SWMH123	35.905m	
SWMH124	35.700m	
SWMH125	33.248m	
SWMH126	34.111m	
SWMH127	33.550m	
SWMH128	34.425m	
SWMH129	34.448m	
SWMH130	34.897m	
SWMH131	35.425m	



Issue	Date	By	Check	Appd
D1	11/07/2023	DH	OG	CG

ARUP

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Client
Indaver Ireland Limited

INDAVER

Job Title
IE Licence Review Application

Drawing Title
Site Services and Underground Drainage System

Drawing 2 of 5

Scale of A0: 1:200

Discipline: Environmental

Job No: 289377-00
Drawing Status: Issue

Drawing No: **D1**