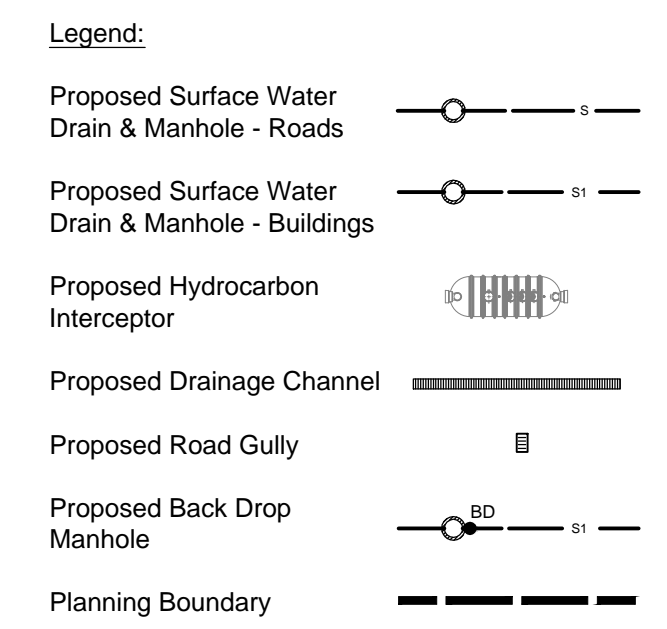


- Notes:
- Proposed surface water pipework shall be Polypipe Ridgidrain pipework and fittings.
  - Surface Water pipework has been designed to achieve a minimum self-cleansing velocity of 1m/s.
  - Proposed manhole covers shall be Noroc ductile iron covers by EJ Covers, load class D400 to IS EN 124.
  - Proposed road gullies shall be the Polypipe Ridgidgully with D400 Buffalo 100 ductile iron grating.
  - Proposed drainage channel shall be one of the following with a load class of D400 to IS EN 124:
    - Type 1 = Aco RoadDrain 100 Series PD100F 50.1
    - Type 2 = Aco MultiDrain M150D 10.1
  - All runoff from the carpark, access roads & yards shall discharge to the public sewer via a class 1 hydrocarbon interceptor to BS EN 858-2 by Klargester, model type as follows:
    - Type 1 = Full Retention NSFA125
    - Type 2 = Full Retention NSFA200
    - Type 3 = Forecourt Separator
 All separators shall be fitted with an oil alarm system to be tied back to the building management system in accordance with BS EN 858-1.
  - Proposed final discharge from the site shall be controlled using a pump from the surface water attenuation tank up to and including the 30year rainfall event:
    - Design Static Head = 3m
    - Design Flow = 18L/Sec ( $Q_{30yr}$ )



Surface Water Manhole Schedule

Manhole #	Cover Level	Invert Level	Backdrop Level	Comment	MicroDrainage Pipe #
01	10.80m	9.30m			1.000
02	10.80m	9.13m			1.001
03	9.80m	8.46m			1.002
04	7.00m	5.50m			2.000
05	7.63m	5.35m	6.45m		1.003
06	6.06m	3.69m	4.50m		1.004
07	5.15m	3.42m			1.005
08	5.10m	3.21m			1.006
09	4.86m	3.00m			1.007
10	3.60m	2.10m			3.000
11	3.70m	1.86m			1.008
12	4.90m	1.77m			1.009
13	4.75m	1.59m			1.010
Tank Inlet	4.55m	-0.07	1.54m	Monitoring Point 01	7.000
14	4.77m	3.27m			8.000
15	10.00m	8.50m			8.001
16	10.00m	8.25m			8.002
17	10.00m	6.51m	8.17m		8.003
18	7.45m	4.70m	5.90m		8.004
19	6.10m	3.82m	4.45m		8.005
20	4.90m	3.10m			7.001
21	4.77m	2.66m			7.002
22	5.00m	2.12m	2.42m		9.002
23	3.40m	2.00m			7.003
24	3.50m	1.85m			7.004
25	4.90m	1.65m			10.000
Tank Inlet	4.80m	-0.13m	1.63m	Monitoring Point 01	10.001
26	10.00	8.50m			10.002
27	10.00m	6.65m	8.26m		10.003
28	7.45m	4.70m	5.90m		10.004
29	6.10m	3.82m			10.005
30	4.82m	3.10m			10.006
31	5.00m	2.80m			11.000
32	5.00m	2.68m			11.001
33	11.00m	9.50m			11.002
34	11.00m	9.05m			11.003
35	11.00m	9.50m			11.004
36	11.00m	5.60m	8.88m		11.005
37	7.00m	5.55m			11.006
38	7.00m	5.35m			11.007
39	7.60m	4.87m			10.007
40	6.08m	4.21m	4.69m		10.008
41	5.78m	4.09m			13.000
42	4.90m	2.39m	3.40m		10.009
43	5.00m	2.28m			10.010
44	5.00m	3.50m			10.011
45	5.00m	2.01m	3.35m		10.012
46	4.80m	1.86m			10.013
47	5.00m	3.50m			14.000
48	5.00m	3.29m			14.001
49	4.80m	1.80m	3.17m		10.011
Tank Inlet	4.70m	-0.20m	1.77m		1.012
Pumpstation	4.55m	-0.50m		18L/Sec Discharge	1.013
50	4.55m	3.00m		Monitoring Point 02	1.014
Road	2.90m	0.36m		2x1500mm Pipes	

PL1	11/12/15	J.B.	J.B.	JMacC
Issued for Planning				
Rev	Date	By	Chkd	Appd

**ARUP**  
 15 Oliver Plunkett Street  
 Cork, Ireland  
 Tel +353 (0)21 427 7670 Fax +353 (0)21 427 2345  
 www.arup.com

Client  
**INDAVER**

Project Title  
 Ringaskiddy Resource Recovery Centre

Drawing Title  
 Proposed Surface Water Drainage Layout  
 Sheet 2 of 2

Scale at A1: 1:500

Role	Site Infrastructure
Suitability	Planning
Arup Job No	238129-00
Name	C-000-012
Rev	PL1