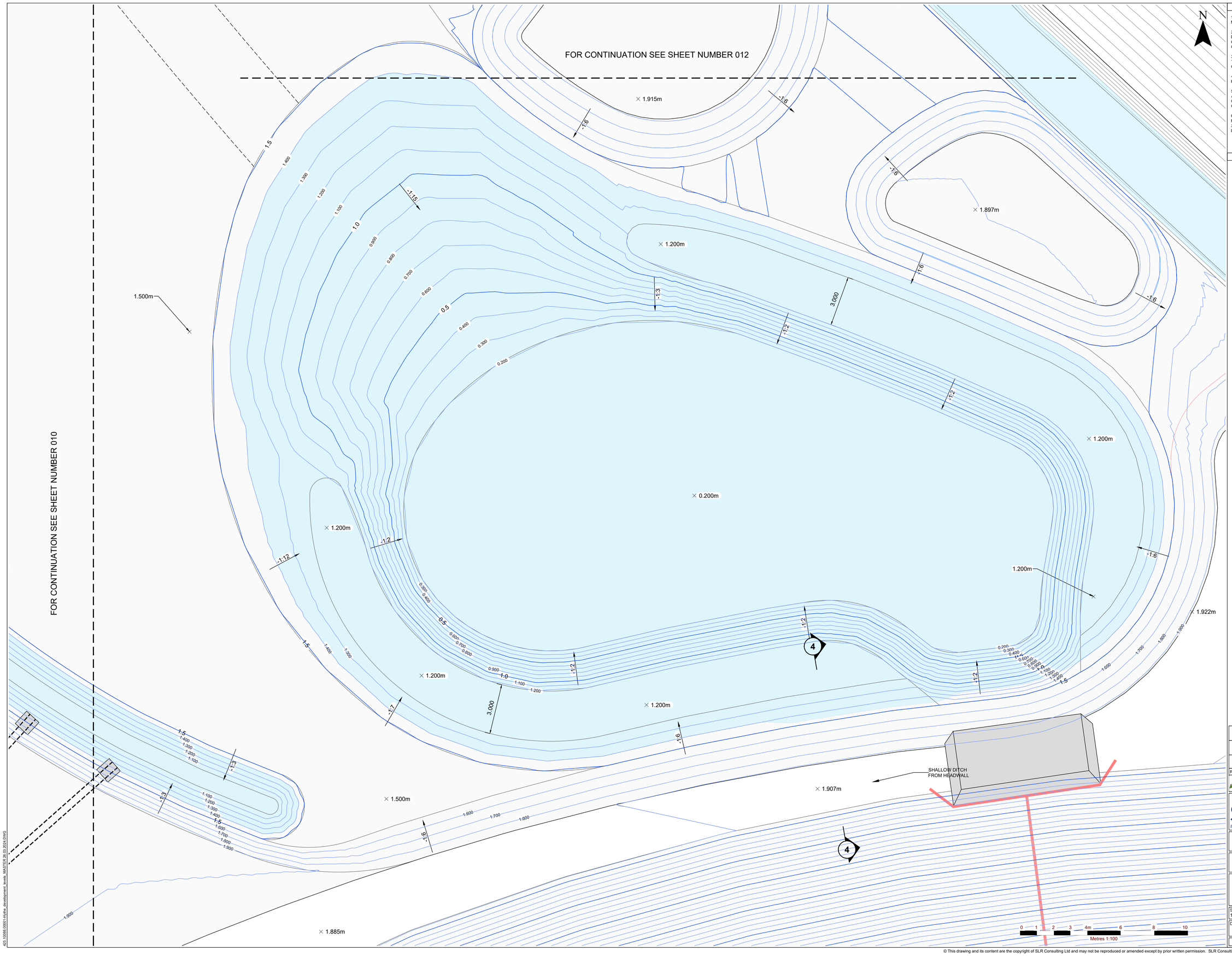

NOTES

1. SURVEY CARRIED OUT BY SLR CONSULTING LTD 28-30th MAY 2019.

2. TOPOGRAPHICAL SURVEY INFORMATION SHOWN ON THIS DRAWING IS BASED UPON THE ORDNANCE SURVEY NATIONAL GRID HEIGHT AND PLAN DATUM DERIVED BY G.P.S.(OSTN15,OSGB36).

3. THE ACCURACY OF THIS SURVEY IS COMMENSURATE WITH THE DRAWING SCALE SPECIFIED WITHIN THE TITLE BLOCK. CHECK ALL CRUCIAL DIMENSIONS ON-SITE.

4. SERVICES INCLUDING MANHOLES AND TELEGRAPH POSTS HAVE BEEN SURVEYED WHERE FOUND.

5. WHILST EVERY EFFORT HAS BEEN MADE TO INCLUDE ALL ACCESSIBLE DETAIL, SOME FEATURES MAY NOT BE SHOWN IF OBSCURED AT THE TIME OF SURVEY (e.g. AREA OVERGROWN/STOCKPILES)

6. PREVIOUS SURVEY INFORMATION SHOWN IN GREY TAKEN FROM DRAWING REFERENCE *Topographical Survey Fishing Swims.dwg* SUPPLIED BY SHEERNESS RECYCLING (HYTHE) LTD

LEGEND

- PROPOSED MAJOR CONTOURS AT 500mm INTERVALS
- PROPOSED MINOR CONTOURS AT 100mm INTERVALS
- INDICATIVE VEHICLE ROUTE
- PERMANENT WATER
- PROPOSED HEADWALL

Revision	By	Chk'd By	Date	Comments
2	PS	IMR	3/24	GENERAL UPDATE.
1	PS	IMR	2/24	GENERAL UPDATE.
0	PS	IMR	7/23	PRELIMINARY ISSUE.

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Site
MARTELLO LAKES,
HYTHE, KENT

Project
NICKHOLLS QUARRY REDEVELOPMENT

Drawing Title
PROPOSED LAYOUT
NORTHERN POND

Scale
1:100 @ A1

Date
JUNE 2023

Drawing Number
011

Revision
2

425.10058.00001-Hythe_development_levels_MASTER 26.03.2024.DWG

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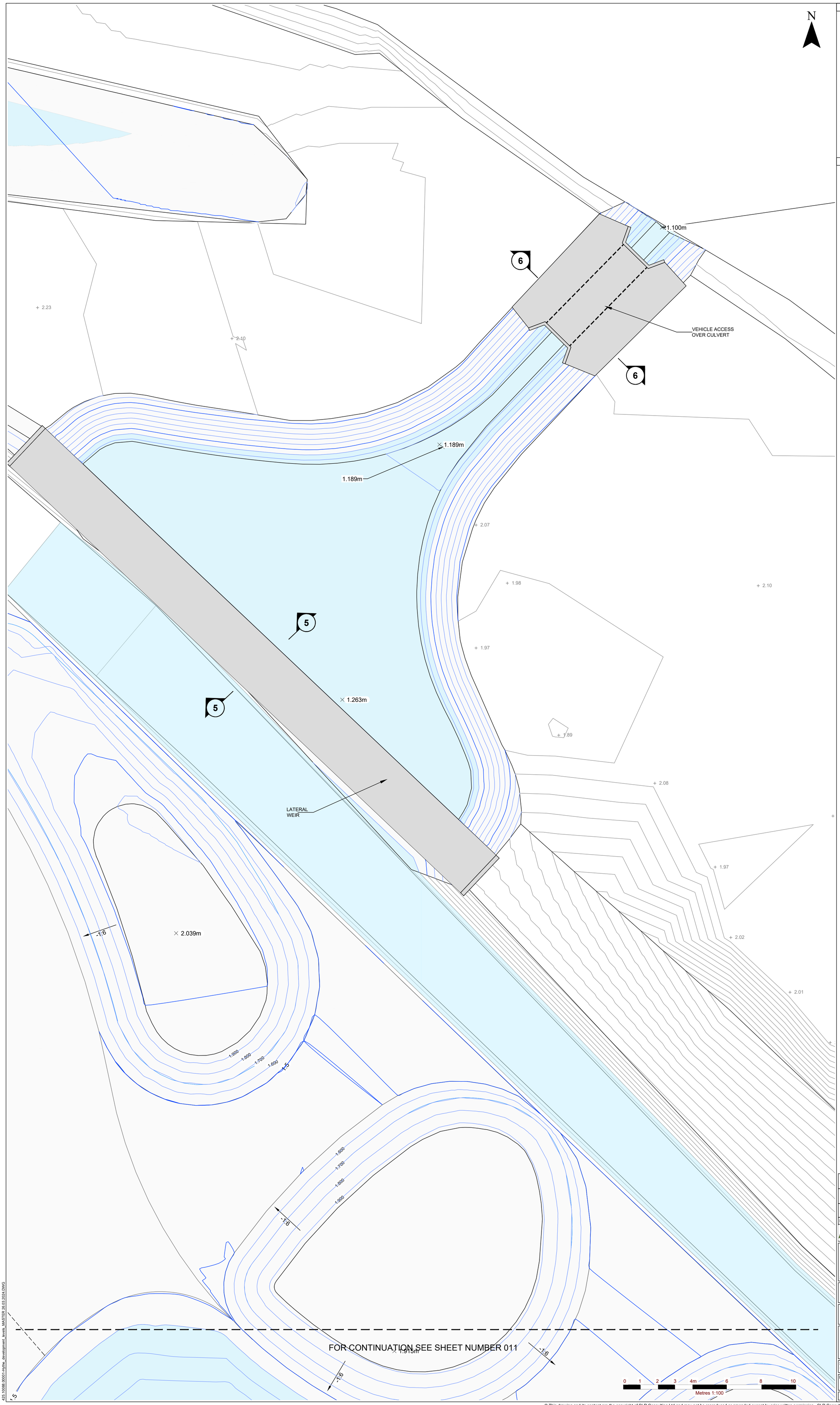

NOTES

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6. PREVIOUS SURVEY INFORMATION SHOWN IN GREY TAKEN FROM DRAWING REFERENCE *Topographcial Survey Fishing Swims.dwg* SUPPLIED BY SHEERNESS RECYCLING (HYTHE) LTD

LEGEND

- PROPOSED MAJOR CONTOURS AT 500mm INTERVALS
- PROPOSED MINOR CONTOURS AT 100mm INTERVALS
- INDICATIVE VEHICLE ROUTE
- PERMANENT WATER

Revision	By	Chk'd By	Date	Comments
2	PS	IMR	3/24	GENERAL UPDATE.
1	PS	IMR	2/24	GENERAL UPDATE.
0	PS	IMR	7/23	PRELIMINARY ISSUE.

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Site
MARTELLO LAKES,
HYTHE, KENT

Project
NICKHOLLS QUARRY REDEVELOPMENT

Drawing Title
PROPOSED LAYOUT
NORTHERN OUTLET
DETAIL SHEET 5

Scale
1:100 @ A1

Date
JUNE 2023

Drawing Number
012

Revision
2

425.10088.00001-Hythe_development_levels_MASTER 26.03.2024.DWG

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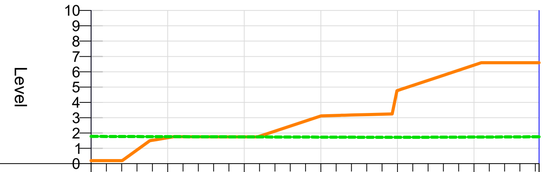
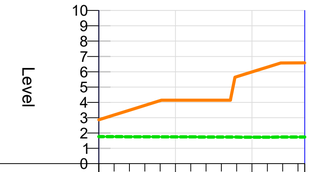


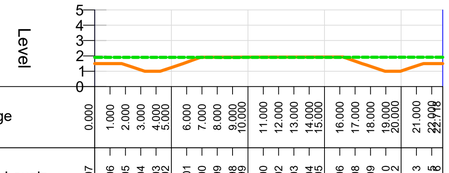
Chainage	Existing Levels	Proposed Levels
0.000	1.776	0.200
1.000	1.773	0.200
2.000	1.769	0.897
3.000	1.766	1.528
4.000	1.763	1.694
5.000		
6.000	1.760	1.760
7.000	1.757	1.757
8.000	1.754	1.754
9.000	1.751	1.751
10.000	1.748	1.748
11.000	1.745	1.788
12.000	1.742	2.119
13.000	1.739	2.451
14.000	1.736	2.783
15.000	1.733	3.114
16.000	1.730	3.148
17.000	1.727	3.176
18.000	1.724	3.202
19.000	1.721	3.229
20.000	1.718	4.773
21.000	1.722	5.104
22.000	1.726	5.436
23.000	1.729	5.768
24.000	1.733	6.099
25.000	1.737	6.431
26.000	1.741	6.588
27.000	1.745	6.589
28.000	1.750	6.589
29.000	1.755	6.589
29.846	1.759	

SECTION 1 - 1 SOUTHERN POND & ACCESS ROAD



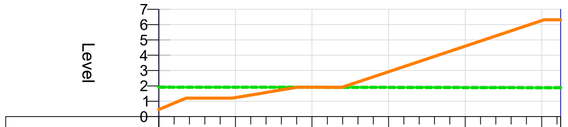
Chainage	Existing Levels	Proposed Levels
0.000	1.766	3.175
1.000	1.762	3.488
2.000	1.758	3.800
3.000	1.755	4.113
4.000	1.751	4.141
5.000	1.748	
6.000	1.745	4.142
7.000	1.741	4.142
8.000	1.738	4.142
9.000	1.734	5.675
10.000	1.731	5.988
11.000	1.732	6.300
12.000	1.736	6.577
13.000	1.739	6.577

SECTION 2 - 2 THROUGH ACCESS RAMP



Chainage	Existing Levels	Proposed Levels
0.000	1.907	1.500
1.000	1.906	1.420
2.000	1.905	1.088
3.000	1.904	1.043
4.000	1.902	1.043
5.000	1.902	
6.000	1.901	1.581
7.000	1.900	1.912
8.000	1.899	1.914
9.000	1.898	1.916
10.000	1.899	1.918
11.000	1.900	1.920
12.000	1.902	1.922
13.000	1.903	1.924
14.000	1.904	1.926
15.000	1.905	1.928
16.000	1.906	1.929
17.000	1.908	1.656
18.000	1.909	1.315
19.000	1.910	1.000
20.000	1.912	1.015
21.000	1.913	1.346
22.000	1.916	1.500

SECTION 3 - 3 CULVERTS AT BRIDGE LINK



Chainage	Existing Levels	Proposed Levels
0.000	1.911	0.874
1.000	1.911	1.200
2.000	1.912	1.200
3.000	1.912	1.200
4.000	1.912	1.236
5.000		
6.000	1.913	1.403
7.000	1.913	1.569
8.000	1.913	1.736
9.000	1.911	1.903
10.000	1.909	1.909
11.000	1.907	1.907
12.000	1.905	1.925
13.000	1.903	2.258
14.000	1.901	2.591
15.000	1.899	2.924
16.000	1.897	3.258
17.000	1.896	3.591
18.000	1.894	3.924
19.000	1.892	4.257
20.000	1.890	4.590
21.000	1.888	4.924
22.000	1.886	5.257
23.000	1.883	5.590
24.000	1.881	5.923
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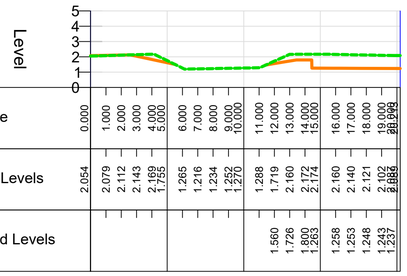
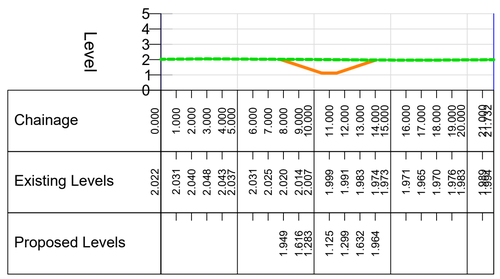
26.000	1.874	
26.831	1.871	6.310

SECTION 4 - 4 HEADWALL NORTH POND



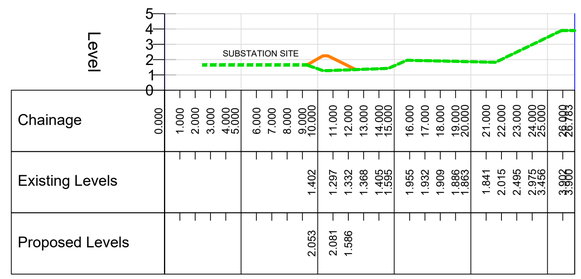
Chainage	Existing Levels	Proposed Levels
0.000	2.054	
1.000	2.079	
2.000	2.112	
3.000	2.143	
4.000	2.169	
5.000	1.755	
6.000	1.265	
7.000	1.216	
8.000	1.234	
9.000	1.252	
10.000	1.270	
11.000	1.288	
12.000	1.719	1.560
13.000	2.160	1.726
14.000	2.172	1.880
15.000	2.174	1.263
16.000	2.160	1.258
17.000	2.140	1.253
18.000	2.121	1.248
19.000	2.102	1.243
20.000	2.088	1.237

SECTION 5 - 5 AT OUTFALL TO LAKE



Chainage	Existing Levels	Proposed Levels
0.000	2.022	
1.000	2.031	
2.000	2.040	
3.000	2.048	
4.000	2.043	
5.000	2.037	
6.000	2.031	
7.000	2.025	
8.000	2.020	1.949
9.000	2.014	1.616
10.000	2.007	1.283
11.000	1.999	1.125
12.000	1.991	1.299
13.000	1.983	1.632
14.000	1.974	1.964
15.000	1.973	
16.000	1.971	
17.000	1.965	
18.000	1.970	
19.000	1.976	
20.000	1.983	
21.000	1.989	
21.799	1.994	

SECTION 6 - 6 NORTH ROAD CULVERT



Chainage	Existing Levels	Proposed Levels
0.000		
1.000		
2.000		
3.000		
4.000		
5.000		
6.000		
7.000		
8.000		
9.000	1.402	2.053
10.000		
11.000	1.297	2.061
12.000	1.332	1.586
13.000	1.368	
14.000	1.405	
15.000	1.595	
16.000	1.955	
17.000	1.932	
18.000	1.909	
19.000	1.886	
20.000	1.863	
21.000	1.841	
22.000	2.015	
23.000	2.495	
24.000	2.975	
25.000	3.458	
26.000	3.900	
26.993	3.900	

SECTION 7 - 7 SUBSTATION TO REED BED

0 2 4 6 8m 12 16 20

Metres 1:200

NOTES

1. SURVEY CARRIED OUT BY SLR CONSULTING LTD 28-30th MAY 2019.

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6. PREVIOUS SURVEY INFORMATION SHOWN IN GREY TAKEN FROM DRAWING REFERENCE *Topographcial Survey Fishing Swims.dwg* SUPPLIED BY SHEERNESS RECYCLING (HYTHE) LTD

LEGEND

EXISTING GROUND PROFILE

PROPOSED GROUND PROFILE

Revision	By	Chk'd By	Date	Comments
2	PS	IMR	3/24	GENERAL UPDATE.
1	PS	IMR	2/24	GENERAL UPDATE.
0	PS	IMR	7/23	FIRST ISSUE.

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Site
MARTELLO LAKES,
HYTHE, KENT

Project
NICKHOLLS QUARRY REDEVELOPMENT

Drawing Title
PROPOSED LAYOUT
DETAIL SECTIONS

Scale
1:500 @ A1

Date
AUGUST 2021

Drawing Number
013

Revision
2

425.10068.00001-Hythe_development_levels MASTER 26.03.2024.DWG

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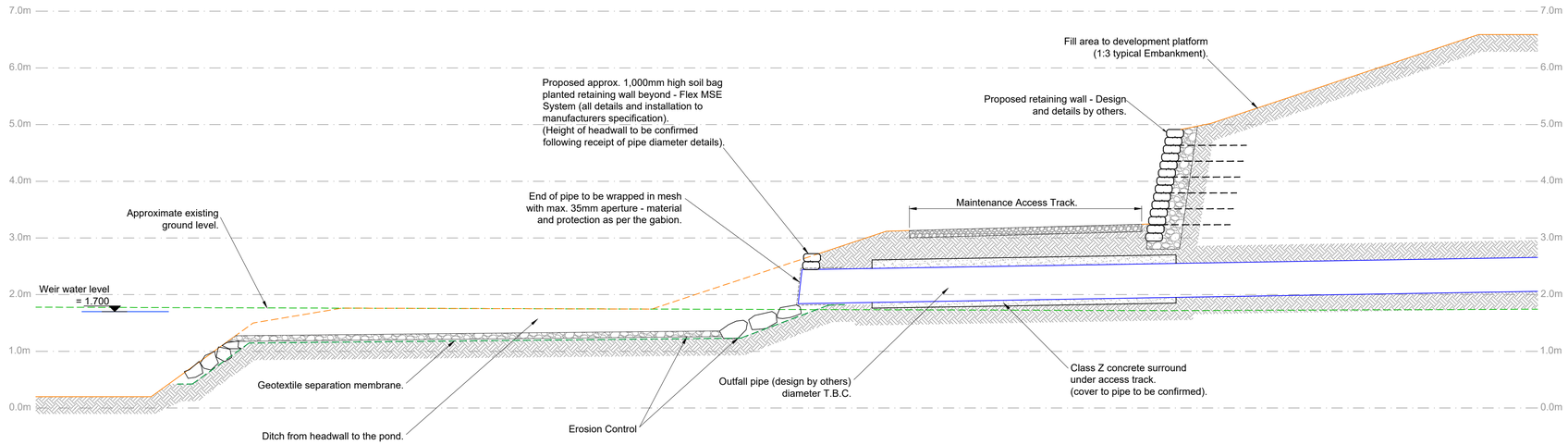
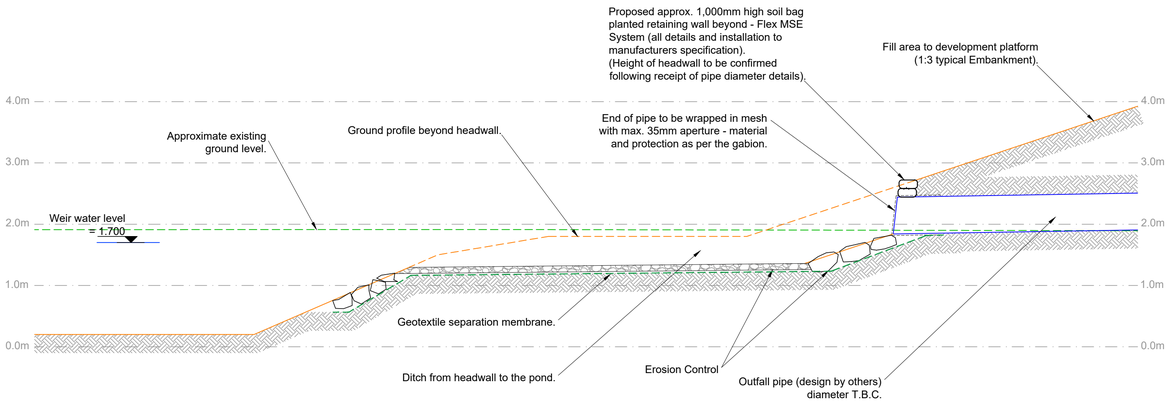


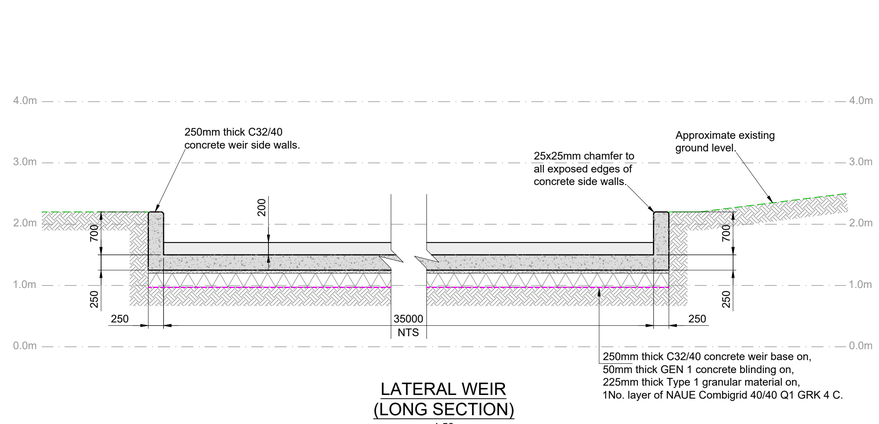
SECTION THROUGH OUTFALL (CATCHMENT A)

1:50



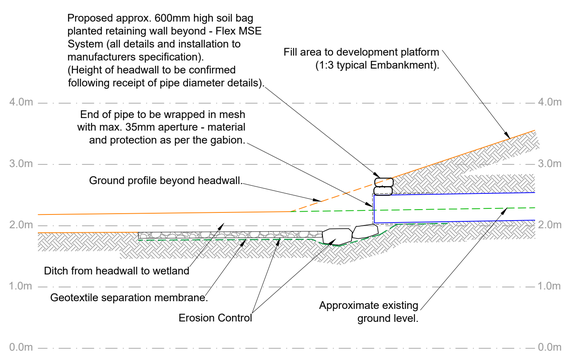
SECTION THROUGH OUTFALL (CATCHMENT B)

1:50



LATERAL WEIR (LONG SECTION)

1:50



SECTION THROUGH OUTFALL (CATCHMENT C)

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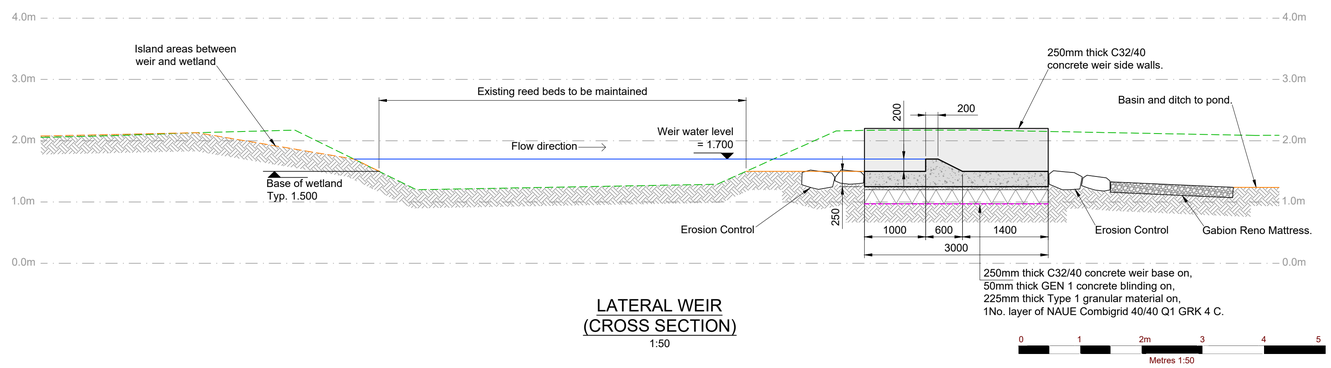

LATERAL WEIR (CROSS SECTION)

1:50

NOTES

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6. PREVIOUS SURVEY INFORMATION SHOWN IN GREY TAKEN FROM DRAWING REFERENCE *Topographcial Survey Fishing Swims.dwg* SUPPLIED BY SHEERNESS RECYCLING (HYTHE) LTD

LEGEND

Revision	By	Chk'd By	Date	Comments
1	PS	IMR	2/24	GENERAL UPDATE.
0	DH	IMR	7/23	FIRST ISSUE.

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Site
MARTELLO LAKES,
HYTHE, KENT

Project
NICKHOLLS QUARRY REDEVELOPMENT

Drawing Title
PROPOSED CONSTRUCTION DETAILS (SHEET 1 OF 2)

Scale
1:50 @ A1

Date
JULY 2023

Drawing Number
014

Revision
1

425.06487.00001 Details MASTER 240206.dwg

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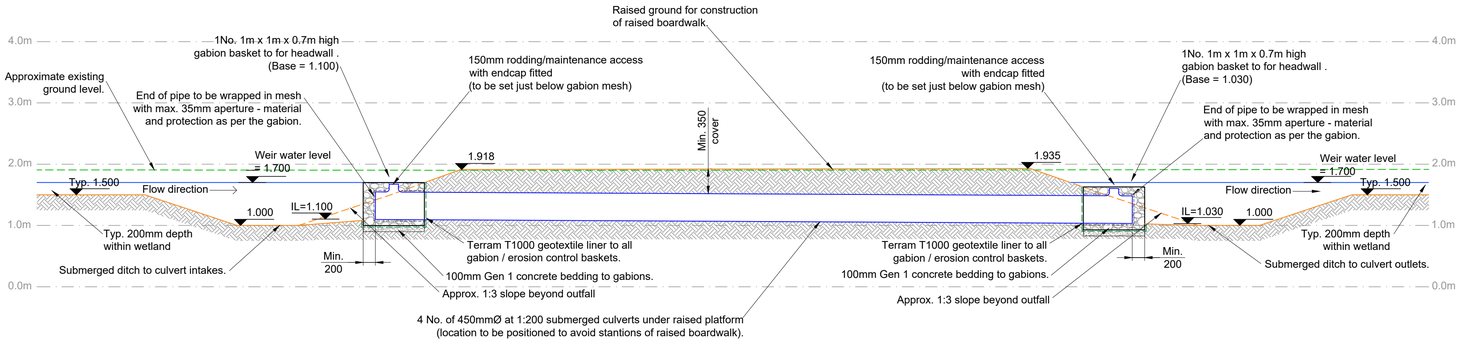
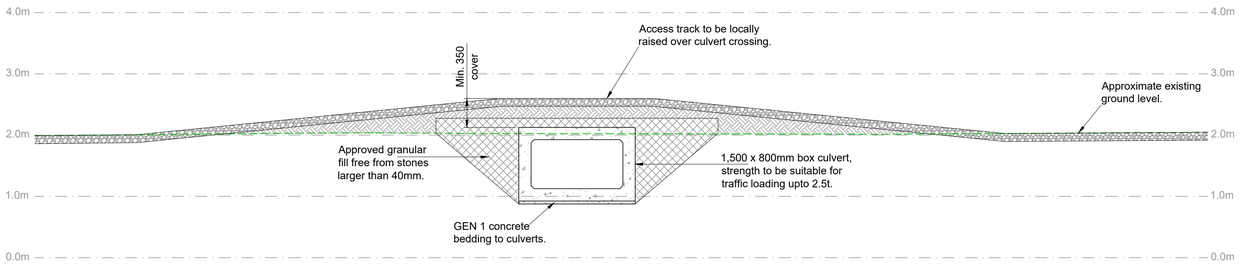


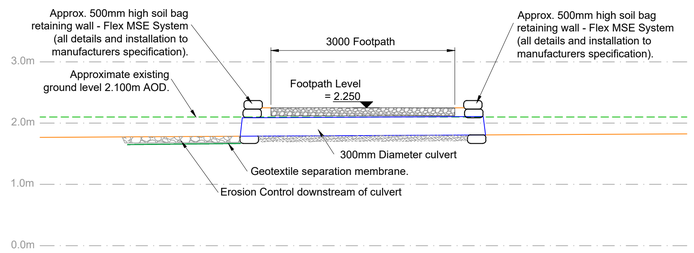
SECTION THROUGH CULVERT TO RAISED SECTION (FOR BOARDWALK)

1:50



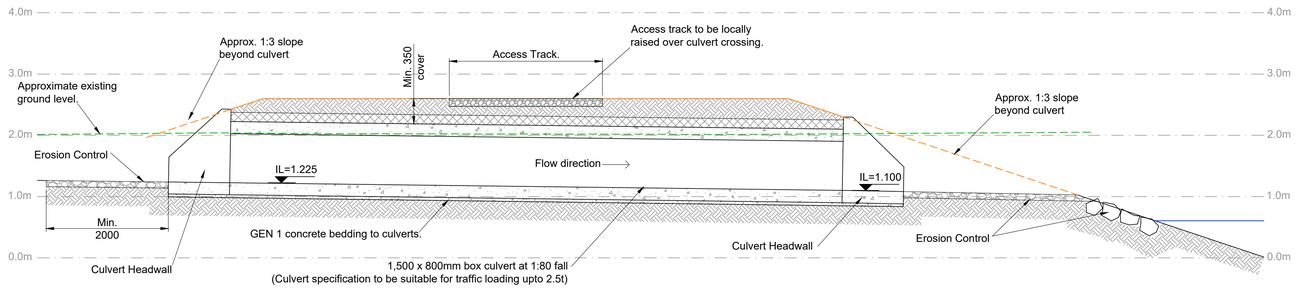
NICKOLL'S LAKE ACCESS ROAD CULVERT FROM WETLAND & PHASE II (CROSS SECTION)

1:50



SECTION THROUGH 300mm CULVERT

1:50



NICKOLL'S LAKE ACCESS ROAD CULVERT FROM WETLAND & PHASE II (LONG SECTION)

1:50

0 1 2m 3 4 5

Metres 1:50

NOTES

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6. PREVIOUS SURVEY INFORMATION SHOWN IN GREY TAKEN FROM DRAWING REFERENCE *Topographcial Survey Fishing Swims.dwg* SUPPLIED BY SHEERNESS RECYCLING (HYTHE) LTD

LEGEND

Revision	By	Chk'd By	Date	Comments
2	IMR	DW	3/24	300mm Culvert detail added.
1	PS	IMR	2/24	GENERAL UPDATE.
0	DH	IMR	7/23	FIRST ISSUE.

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Site
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HYTHE, KENT

Project
NICKHOLLS QUARRY REDEVELOPMENT

Drawing Title
PROPOSED CONSTRUCTION DETAILS (SHEET 2 OF 2)

Scale: 1:50 @ A1
Date: JULY 2023

Drawing Number: **015**
Revision: **2**

425.06487.00001 Details MASTER 240315.dwg

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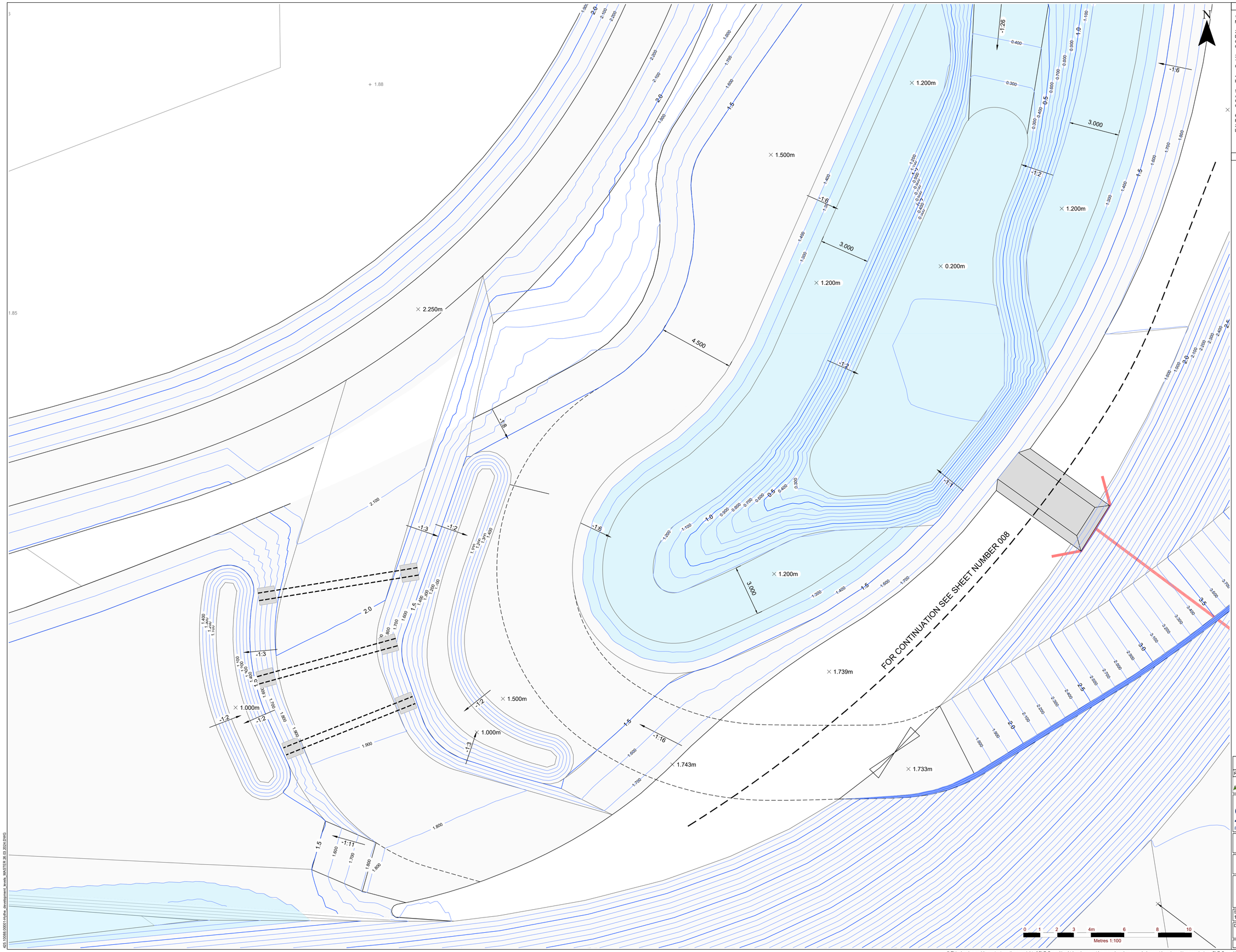

NOTES

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LEGEND

- PROPOSED MAJOR CONTOURS AT 500mm INTERVALS
- PROPOSED MINOR CONTOURS AT 100mm INTERVALS
- INDICATIVE VEHICLE ROUTE
- PERMANENT WATER
- PROPOSED HEADWALL

Revision	By	Chk'd By	Date	Comments
0	PS	IMR	3/24	FIRST ISSUE.

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Site
MARTELLO LAKES,
HYTHE, KENT

Project
NICKHOLLS QUARRY REDEVELOPMENT

Drawing Title
PROPOSED LAYOUT
VEHICLE MAINTENANCE ACCESS
SOUTH - DETAIL SHEET

Scale: 1:100 @ A1
Date: MARCH 2024
Drawing Number: 016
Revision: 0

425.10058.00001\Hythe_development_levels_MASTER 26.03.2024.DWG

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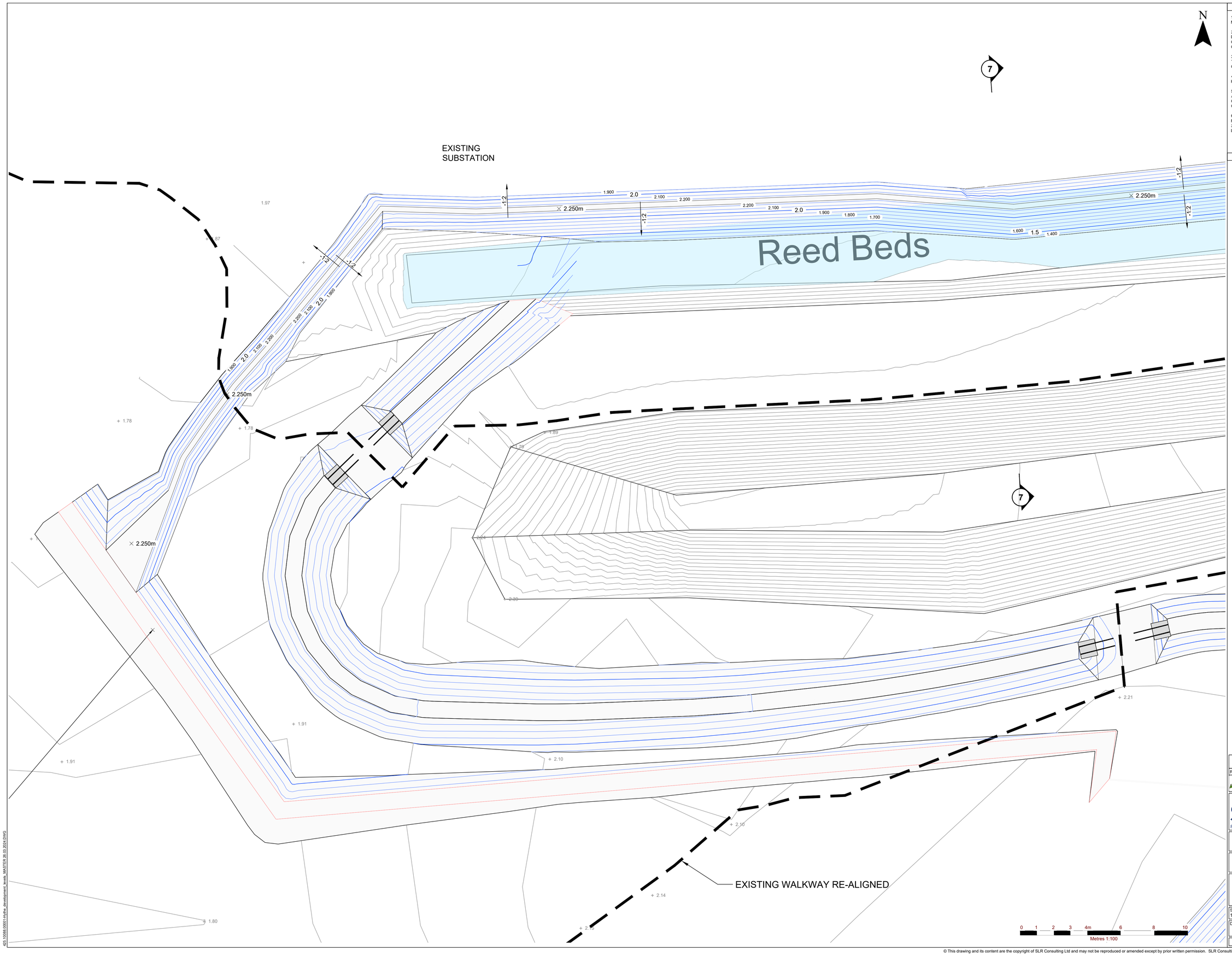

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LEGEND

- PROPOSED MAJOR CONTOURS AT 500mm INTERVALS
- PROPOSED MINOR CONTOURS AT 100mm INTERVALS
- INDICATIVE VEHICLE ROUTE
- PERMANENT WATER
- PROPOSED HEADWALL
- ALIGNMENT OF EXISTING FOOTPATH & FOOTBRIDGE

Revision	By	Chk'd By	Date	Comments
0	PS	IMR	3/24	FIRST ISSUE.

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Site
MARTELLO LAKES,
HYTHE, KENT

Project
NICKHOLLS QUARRY REDEVELOPMENT

Drawing Title
PROPOSED LAYOUT
BUND TO SUSBSTATION AT 2.25m
DETAIL SHEET

Scale
1:100 @ A1

Date
MARCH 2024

Drawing Number
016

Revision
0

425.10068.00001-Hythe_development_levels_MASTER 26.03.2024.DWG

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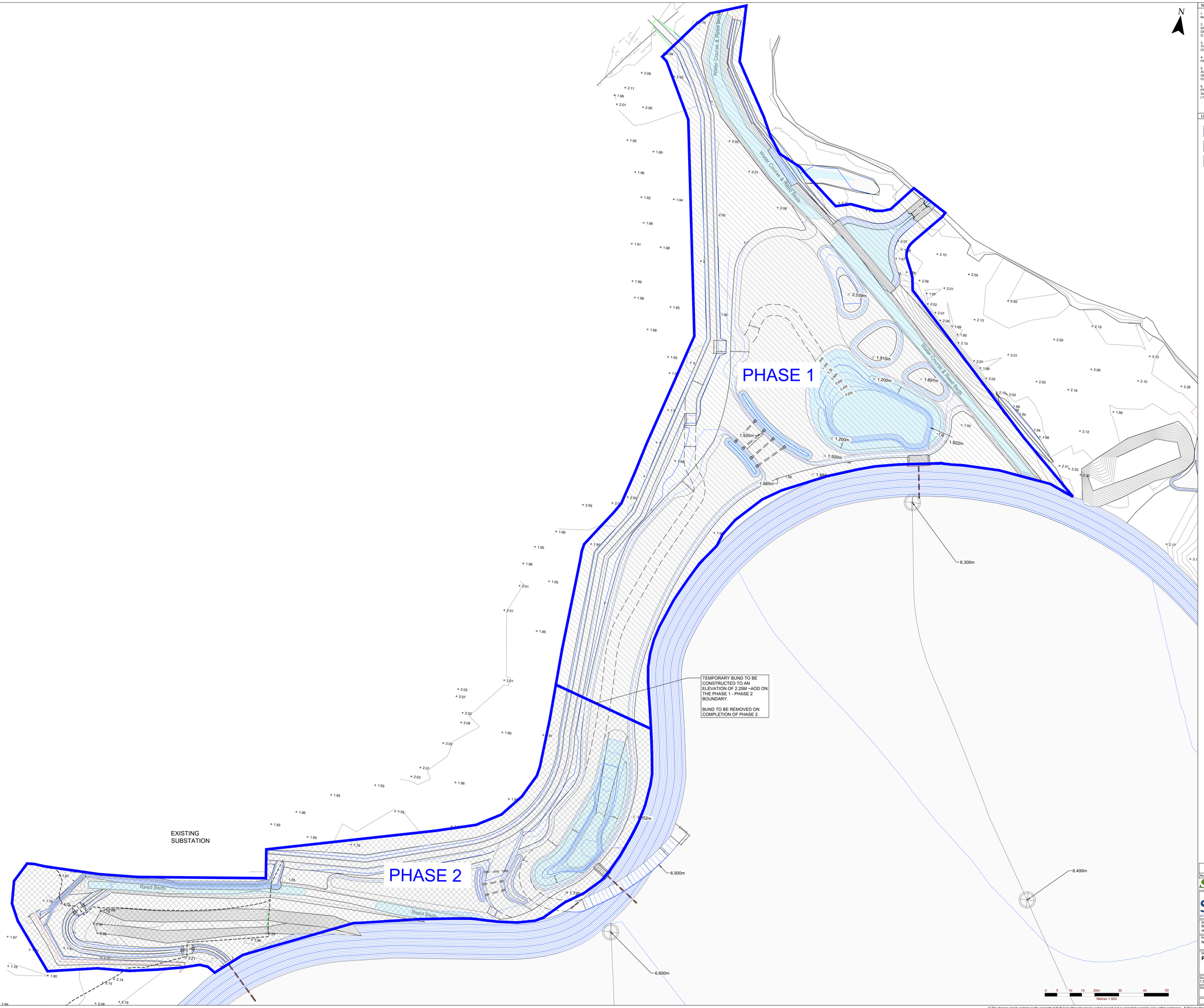

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6. PREVIOUS SURVEY INFORMATION SHOWN IN GREY TAKEN FROM DRAWING REFERENCE *Topographical Survey Fishing Swims.dwg* SUPPLIED BY SHEERNESS RECYCLING (HYTHE) LTD

LEGEND

- OUTLINE DEFINING PHASING
- PHASE 1 DEVELOPMENT
- PHASE 2 DEVELOPMENT

Revision	By	Chk'd By	Date	Comments
0	PS	IMR	03/24	INITIAL ISSUE

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Site
MARTELLO LAKES,
HYTHE, KENT

Project
NICKHOLLS QUARRY REDEVELOPMENT

Drawing Title
PROPOSED PHASING

Scale	Date
1:500 @ A1	MARCH 2024

Drawing Number	Revision
018	0

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Appendix E SuDS Area design results

Surface Water Drainage Design (Condition 37 Report)

Martello Lakes site (Nickolls Quarry Redevelopment)

Camland Hythe Ltd

SLR Project No.: 425.064675.00001

26 March 2024

Time Area Diagram for Storm

Time (mins)	Area (ha)
0-4	0.000

Total Area Contributing (ha) = 0.000

Total Pipe Volume (m³) = 4441.511

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STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	20.000	0.090	222.2	0.000	5.00	0.0	0.600	\/	-1	Pipe/Conduit	
1.001	60.000	0.005	12000.0	0.000	0.00	0.0	0.600	\/	-8	Pipe/Conduit	
1.002	12.000	0.070	171.4	0.000	0.00	0.0	0.600	ooo	-7	Pipe/Conduit	
1.003	210.000	0.005	42000.0	0.000	0.00	0.0	0.600	\/	-2	Pipe/Conduit	
1.004	12.000	0.070	171.4	0.000	0.00	0.0	0.600	4o	-5	Pipe/Conduit	
1.005	35.000	0.005	7000.0	0.000	0.00	0.0	0.600	\/	-3	Pipe/Conduit	
1.006	20.000	0.200	100.0	0.000	0.00	0.0	0.600	\/	-4	Pipe/Conduit	
1.007	10.000	0.125	80.0	0.000	0.00	0.0	0.600	\/	-4	Pipe/Conduit	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.16	1.900	0.000	0.0	0.0	0.0	2.05	1721.4	0.0
1.001	50.00	7.69	1.710	0.000	0.0	0.0	0.0	0.40	3253.5	0.0
1.002	49.72	7.82	1.100	0.000	0.0	0.0	0.0	1.55	739.5	0.0
1.003	25.41	24.29	1.710	0.000	0.0	0.0	0.0	0.21	2595.4	0.0
1.004	25.32	24.42	1.100	0.000	0.0	0.0	0.0	1.55	985.9	0.0
1.005	24.64	25.48	1.705	0.000	0.0	0.0	0.0	0.55	19449.3	0.0
1.006	24.60	25.54	1.425	0.000	0.0	0.0	0.0	5.39	21606.0	0.0
1.007	24.58	25.57	1.225	0.000	0.0	0.0	0.0	6.03	24162.5	0.0

Conduit Sections for Storm

NOTE: Diameters less than 66 refer to section numbers of hydraulic conduits. These conduits are marked by the symbols:- [] box culvert, \/ open channel, oo dual pipe, ooo triple pipe, O egg.

Section numbers < 0 are taken from user conduit table

Section Number	Conduit Type	Major Dimn. (mm)	Minor Dimn. (mm)	Side Slope (Deg)	Corner Splay (mm)	4*Hyd Radius (m)	XSect Area (m^2)
-1	\/	1000	350	14.0		0.864	0.841
-2	\/	24900	450	11.3		1.657	12.218
-3	\/	76000	450	11.3		1.748	35.213
-4	\/	1000	1000	18.4		2.184	4.006
-5	4o	1800	450			0.450	0.636
-7	ooo	1350	450			0.450	0.477
-8	\/	16000	450	11.3		1.595	8.213

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Ba
Catchment C	2.350	0.450	Junction		1.000	1.900	-1				
FIRST BASIN	2.350	0.640	Junction		1.001	1.710	-8	1.000	1.810	-1	
PIPE CROSSING 1	2.350	1.250	Junction		1.002	1.100	-7	1.001	1.705	-8	
Catchment A	2.350	1.320	Junction		1.003	1.710	-2	1.002	1.030	-7	
PIPE CROSSING 2	2.350	1.250	Junction		1.004	1.100	-5	1.003	1.705	-2	
Catchment B	2.350	1.320	Junction		1.005	1.705	-3	1.004	1.030	-5	
POND	2.350	0.925	Junction		1.006	1.425	-4	1.005	1.700	-3	
Culvert	2.325	1.100	Junction		1.007	1.225	-4	1.006	1.225	-4	
Pond	2.250	1.150	Open Manhole	0		OUTFALL		1.007	1.100	-4	

No coordinates have been specified, layout information cannot be produced.

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	\/	-1	Catchment C	2.350	1.900	0.100	Junction	
1.001	\/	-8	FIRST BASIN	2.350	1.710	0.190	Junction	
1.002	ooo	-7	PIPE CROSSING 1	2.350	1.100	0.800	Junction	
1.003	\/	-2	Catchment A	2.350	1.710	0.190	Junction	
1.004	4o	-5	PIPE CROSSING 2	2.350	1.100	0.800	Junction	
1.005	\/	-3	Catchment B	2.350	1.705	0.195	Junction	
1.006	\/	-4	POND	2.350	1.425	-0.075	Junction	
1.007	\/	-4	Culvert	2.325	1.225	0.100	Junction	

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	20.000	222.2	FIRST BASIN	2.350	1.810	0.190	Junction	
1.001	60.000	12000.0	PIPE CROSSING 1	2.350	1.705	0.195	Junction	
1.002	12.000	171.4	Catchment A	2.350	1.030	0.870	Junction	
1.003	210.000	42000.0	PIPE CROSSING 2	2.350	1.705	0.195	Junction	
1.004	12.000	171.4	Catchment B	2.350	1.030	0.870	Junction	
1.005	35.000	7000.0	POND	2.350	1.700	0.200	Junction	
1.006	20.000	100.0	Culvert	2.325	1.225	0.100	Junction	
1.007	10.000	80.0	Pond	2.250	1.100	0.150	Open Manhole	0

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Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.000	0.000	0.000
1.001	-	-	100	0.000	0.000	0.000
1.002	-	-	100	0.000	0.000	0.000
1.003	-	-	100	0.000	0.000	0.000
1.004	-	-	100	0.000	0.000	0.000
1.005	-	-	100	0.000	0.000	0.000
1.006	-	-	100	0.000	0.000	0.000
1.007	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.000	0.000	0.000

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Online Controls for Storm

Depth/Flow Relationship Manhole: POND, DS/PN: 1.006, Volume (m³): 1232.5

Invert Level (m) 1.700

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.010	51.1000	0.090	1379.9000	0.170	3582.2000	0.250	6388.4000
0.020	144.6000	0.100	1616.1000	0.180	3902.9000	0.260	6775.5000
0.030	265.6000	0.110	1864.5000	0.190	4232.6000	0.270	7170.1000
0.040	408.9000	0.120	2124.5000	0.200	4571.1000	0.280	7572.1000
0.050	571.4000	0.130	2395.5000	0.210	4918.2000	0.290	7981.4000
0.060	751.1000	0.140	2677.1000	0.220	5273.7000	0.300	8397.7000
0.070	946.5000	0.150	2969.0000	0.230	5637.3000		
0.080	1156.4000	0.160	3270.8000	0.240	6008.9000		

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Offline Controls for Storm

Weir Manhole: PIPE CROSSING 2, DS/PN: 1.004, Loop to PN: 1.005

Discharge Coef 0.544 Width (m) 35.000 Invert Level (m) 1.935

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Storage Structures for Storm

Tank or Pond Manhole: Culvert, DS/PN: 1.007

Invert Level (m) 1.225

Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	200.0	1.100	420.0

Time Area Diagram at Pipe Number 1.000 for Storm

Total Area (ha) 0.259

Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)
0	4	0.130	4	8	0.129

Time Area Diagram at Pipe Number 1.003 for Storm

Total Area (ha) 15.551

Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)
0	4	1.556	12	16	1.555	24	28	1.555	36	40	1.555
4	8	1.555	16	20	1.555	28	32	1.555			
8	12	1.555	20	24	1.555	32	36	1.555			

Time Area Diagram at Pipe Number 1.005 for Storm

Total Area (ha) 8.451

Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)
0	4	1.057	8	12	1.057	16	20	1.056	24	28	1.056
4	8	1.057	12	16	1.056	20	24	1.056	28	32	1.056

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2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0 Inlet Coeffiecient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
Number of Online Controls 1 Number of Time/Area Diagrams 3
Number of Offline Controls 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH
FEH Rainfall Version 2013
Site Location GB 612750 133400 TR 12750 33400
Data Type Catchment
Cv (Summer) 0.750
Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years) 2, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow
1.000	Catchment C	15 Winter	2	+0%			
1.001	FIRST BASIN	120 Winter	2	+0%			
1.002	PIPE CROSSING 1	120 Winter	2	+0%	2/15 Summer		
1.003	Catchment A	120 Winter	2	+0%			
1.004	PIPE CROSSING 2	120 Winter	2	+0%	2/15 Summer		30/30 Summer
1.005	Catchment B	120 Winter	2	+0%			
1.006	POND	120 Winter	2	+0%			
1.007	Culvert	120 Winter	2	+0%			

PN	US/MH Name	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
1.000	Catchment C		1.940	-0.310	0.000	0.03			31.7
1.001	FIRST BASIN		1.836	-0.324	0.000	0.00			14.2

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2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)
1.002	PIPE CROSSING 1		1.836	0.286	0.000	0.08			38.3
1.003	Catchment A		1.836	-0.324	0.000	0.04			667.7
1.004	PIPE CROSSING 2	29	1.816	0.266	0.000	0.96	0.0		651.7
1.005	Catchment B		1.782	-0.373	0.000	0.02			975.0
1.006	POND		1.771	-0.654	0.000	0.10			971.9
1.007	Culvert		1.425	-0.800	0.000	0.10			973.1

PN	US/MH Name	Status	Level Exceeded
1.000	Catchment C	OK	
1.001	FIRST BASIN	OK	
1.002	PIPE CROSSING 1	SURCHARGED*	
1.003	Catchment A	OK	
1.004	PIPE CROSSING 2	SURCHARGED*	
1.005	Catchment B	OK	
1.006	POND	OK	
1.007	Culvert	OK	

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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0 Inlet Coeffiecient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
Number of Online Controls 1 Number of Time/Area Diagrams 3
Number of Offline Controls 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH
FEH Rainfall Version 2013
Site Location GB 612750 133400 TR 12750 33400
Data Type Catchment
Cv (Summer) 0.750
Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years) 2, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow
1.000	Catchment C	60 Winter	30	+0%			
1.001	FIRST BASIN	60 Winter	30	+0%			
1.002	PIPE CROSSING 1	60 Winter	30	+0%	2/15 Summer		
1.003	Catchment A	60 Winter	30	+0%			
1.004	PIPE CROSSING 2	60 Winter	30	+0%	2/15 Summer		30/30 Summer
1.005	Catchment B	60 Winter	30	+0%			
1.006	POND	60 Winter	30	+0%			
1.007	Culvert	60 Winter	30	+0%			

PN	US/MH Name	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	Catchment C		1.991	-0.259	0.000	0.04		
1.001	FIRST BASIN		1.991	-0.169	0.000	0.00		

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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.002	PIPE CROSSING 1		1.991	0.441	0.000	0.21		
1.003	Catchment A		1.992	-0.168	0.000	0.08		
1.004	PIPE CROSSING 2	29	1.982	0.432	0.000	1.39	290.2	
1.005	Catchment B		1.816	-0.339	0.000	0.04		
1.006	POND		1.805	-0.620	0.000	0.19		
1.007	Culvert		1.513	-0.712	0.000	0.19		

PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
1.000	Catchment C	45.6	OK	
1.001	FIRST BASIN	43.3	OK	
1.002	PIPE CROSSING 1	105.2	SURCHARGED*	
1.003	Catchment A	1415.7	OK	
1.004	PIPE CROSSING 2	936.9	SURCHARGED*	
1.005	Catchment B	1742.0	OK	
1.006	POND	1738.2	OK	
1.007	Culvert	1737.7	OK	

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0 Inlet Coeffiecient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
Number of Online Controls 1 Number of Time/Area Diagrams 3
Number of Offline Controls 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH
FEH Rainfall Version 2013
Site Location GB 612750 133400 TR 12750 33400
Data Type Catchment
Cv (Summer) 0.750
Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years) 2, 30, 100
Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow
1.000	Catchment C	60 Winter	100	+40%			
1.001	FIRST BASIN	60 Winter	100	+40%			
1.002	PIPE CROSSING 1	60 Winter	100	+40%	2/15 Summer		
1.003	Catchment A	60 Winter	100	+40%			
1.004	PIPE CROSSING 2	60 Winter	100	+40%	2/15 Summer		30/30 Summer
1.005	Catchment B	60 Winter	100	+40%			
1.006	POND	60 Winter	100	+40%			
1.007	Culvert	60 Winter	100	+40%			

PN	US/MH Name	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	Catchment C		2.053	-0.197	0.000	0.07		
1.001	FIRST BASIN		2.053	-0.107	0.000	0.01		

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.002	PIPE CROSSING 1		2.052	0.502	0.000	0.21		
1.003	Catchment A		2.051	-0.109	0.000	0.16		
1.004	PIPE CROSSING 2	29	2.035	0.485	0.000	1.39	1887.4	
1.005	Catchment B		1.900	-0.255	0.000	0.10		
1.006	POND		1.890	-0.535	0.000	0.45		
1.007	Culvert		1.669	-0.556	0.000	0.45		

PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
1.000	Catchment C	83.0	FLOOD RISK*	
1.001	FIRST BASIN	79.7	FLOOD RISK*	
1.002	PIPE CROSSING 1	105.2	FLOOD RISK*	
1.003	Catchment A	2731.8	FLOOD RISK*	
1.004	PIPE CROSSING 2	941.7	SURCHARGED*	
1.005	Catchment B	4254.3	OK	
1.006	POND	4237.4	OK	
1.007	Culvert	4237.7	OK	

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0 Inlet Coeffiecient 0.800
Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Storage Structures 1
Number of Online Controls 1 Number of Time/Area Diagrams 3
Number of Offline Controls 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH
FEH Rainfall Version 2013
Site Location GB 612750 133400 TR 12750 33400
Data Type Catchment
Cv (Summer) 0.750
Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

Profile(s) Summer and Winter
Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years) 2, 30, 100
Climate Change (%) 0, 0, 60

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow
1.000	Catchment C	60 Winter	100	+60%			
1.001	FIRST BASIN	60 Winter	100	+60%			
1.002	PIPE CROSSING 1	60 Winter	100	+60%	2/15 Summer		
1.003	Catchment A	60 Winter	100	+60%			
1.004	PIPE CROSSING 2	60 Winter	100	+60%	2/15 Summer		30/30 Summer
1.005	Catchment B	60 Winter	100	+60%			
1.006	POND	60 Winter	100	+60%			
1.007	Culvert	60 Winter	100	+60%			

PN	US/MH Name	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.000	Catchment C		2.071	-0.179	0.000	0.08		
1.001	FIRST BASIN		2.070	-0.090	0.000	0.01		
1.002	PIPE CROSSING 1		2.068	0.518	0.000	0.21		

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)
1.003	Catchment A		2.067	-0.093	0.000	0.18		
1.004	PIPE CROSSING 2	30	2.049	0.499	0.000	1.39	2302.1	
1.005	Catchment B		1.922	-0.233	0.000	0.11		
1.006	POND		1.913	-0.512	0.000	0.51		
1.007	Culvert		1.702	-0.523	0.000	0.51		

PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
1.000	Catchment C	94.6	FLOOD RISK*	
1.001	FIRST BASIN	90.8	FLOOD RISK*	
1.002	PIPE CROSSING 1	105.2	FLOOD RISK*	
1.003	Catchment A	3135.0	FLOOD RISK*	
1.004	PIPE CROSSING 2	941.1	SURCHARGED*	
1.005	Catchment B	4872.0	OK	
1.006	POND	4824.4	OK	
1.007	Culvert	4823.1	OK	

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Appendix F Landscape Drawings

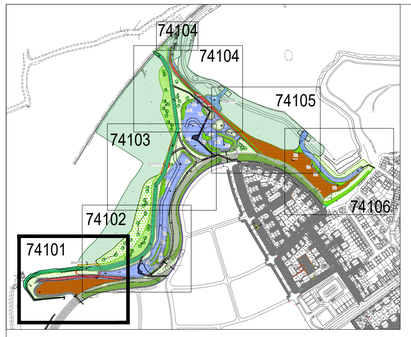
Surface Water Drainage Design (Condition 37 Report)

Martello Lakes site (Nickolls Quarry Redevelopment)

Camland Hythe Ltd

SLR Project No.: 425.064675.00001

26 March 2024



LOCATION PLAN - SCALE 1:5000

Refer to Drawing: 19182-WIE-ZZ-XX-DR-L-74102

EXISTING GROUP VEGETATION
TO BE CUT BACK TO ACCOMMODATE
PROW AND SUDs

1 No. Alnus

1 No. Alnus glutinosa

2 No. Quercus robur

72944 g EG22 - Strong Lawn Grass Mixture Emorsgate

GT2

GT3

WG2

5707 g EM8 - Meadow Wetland Mix Emorsgate

WG2

1851 g EM8F - Meadow Wetland Mix Emorsgate

2977 g E

WG1

WG2

4390 g EM2 - Meadow Mix Emorsgate

WG1

WG2

8633 g EM10 - Tussock Mixture Emorsgate

WG3

1124 g EM8 - Meadow Wetland Mix Emorsgate

Native Buffer Mix
99 No. Cornus sanguinea 10%
99 No. Corylus avellana 10%
198 No. Crataegus monogyna 20%
149 No. Prunus spinosa 15%
99 No. Rosa canina 10%
99 No. Salix caprea 10%
149 No. Viburnum opulus 15%

GT2

5023 g EG22 - Strong Lawn Grass Mixture Emorsgate

END OF LANDSCAPE WORKS

END OF LANDSCAPE WORKS

N

1:250 0 5m 10m 15m 20m 25m

1:1 0 10 20 30 40 50 60 70 80 90 100

KEY

PROPOSED HEADWALLS TO THE ATTENUATION AREAS

BOARD WALK AND VIEWING PLATFORMS

1.2m TIMBER POST AND RAIL FENCING

INDICATIVE LOCATION OF TIMBER BOARD WALK

INDICATIVE SLOPE OF BOARD WALK

INDICATIVE LEVEL OF BOARD WALK

TIMBER EDGING

GRAVEL PATH

KNEE RAIL

INDICATIVE LOCATION OF PH3 AND PH4 STREET LIGHTING
FINAL LOCATIONS TO BE CONFIRMED AT A LATER STAGE

REFER TO ARBORICULTURAL REPORT FOR DETAILS ON TREES TO BE REMOVED AND RETAINED.

EXISTING VEGETATION GROUP
(RPA's shown in purple)

EXISTING VEGETATION TO BE REMOVED

SOFT LANDSCAPE

GT1 — EXISTING GRASSLAND TO BE RETAINED
Any gaps in grassland to be made good by sowing with EM2 by Emorsgate or equivalent approved

GT2 — PROPOSED AMENITY GRASS
EG22 by Emorsgate or equivalent approved

WG1 — PROPOSED WILDFLOWER MEADOW MIX
EM2 by Emorsgate or equivalent approved

WG2 — PROPOSED WILDFLOWER MEADOW MIX FOR WETLANDS
EM8 by Emorsgate or equivalent approved

WG3 — PROPOSED TUSSOCK GRASSLAND
EM10 by Emorsgate or equivalent approved

GT3 — PROPOSED MOWN PATH
THROUGH GRASSLAND OR WILDFLOWER MEADOW

PROPOSED REED BEDS

PROPOSED MARGINAL PLANTING
Refer to planting schedule for details

PROPOSED AQUATIC PLANTING
Refer to planting schedule for details

PROPOSED NATIVE SUB-CANOPY PLANTING
Refer to planting schedule for details

PROPOSED NATIVE BUFFER PLANTING
Refer to planting schedule for details

PROPOSED SHINGLE PLANTING
Refer to planting schedule for details

PROPOSED TREE
Refer to planting schedule for details

Rev	Date	Description	By	Chk
P03	30.10.23	TUSSOCK GRASSLAND ADDED	KK	TH
P02	03.08.23	BOARDWALK AND VIEWING PLATFORM AMENDED	KK	TH
P01	12.07.23	FIRST ISSUE	KK	TH

Amendments

Project
Martello Lakes - Northern POS

Title
GENERAL ARRANGEMENT
LANDSCAPE PLAN
SHEET 1 OF 6

Client
CAMLAND - HYTHE LTD

waterman

Merchants House Wapping Road Bristol BS1 4RW
t 0117 937 8200
mail@watermangroup.com www.watermangroup.com

Suitability: INFORMATION S2

Designed By	KK	Director	TH	Waterman Ref	WIE19182
Drawn By	KK	Date	JUNE 2023	Scales @ A1	1:250

Project - Originator - Volume - Level - Type - Role - Number: 19182-WIE-ZZ-XX-DR-L-74101

Revision: P03

File Path: \\waterman-consulting.com\legacy\files\BL_WIE\Projects\WIE19182\1007_CAD\74_Landscape\

A1-Wat-ISO-S