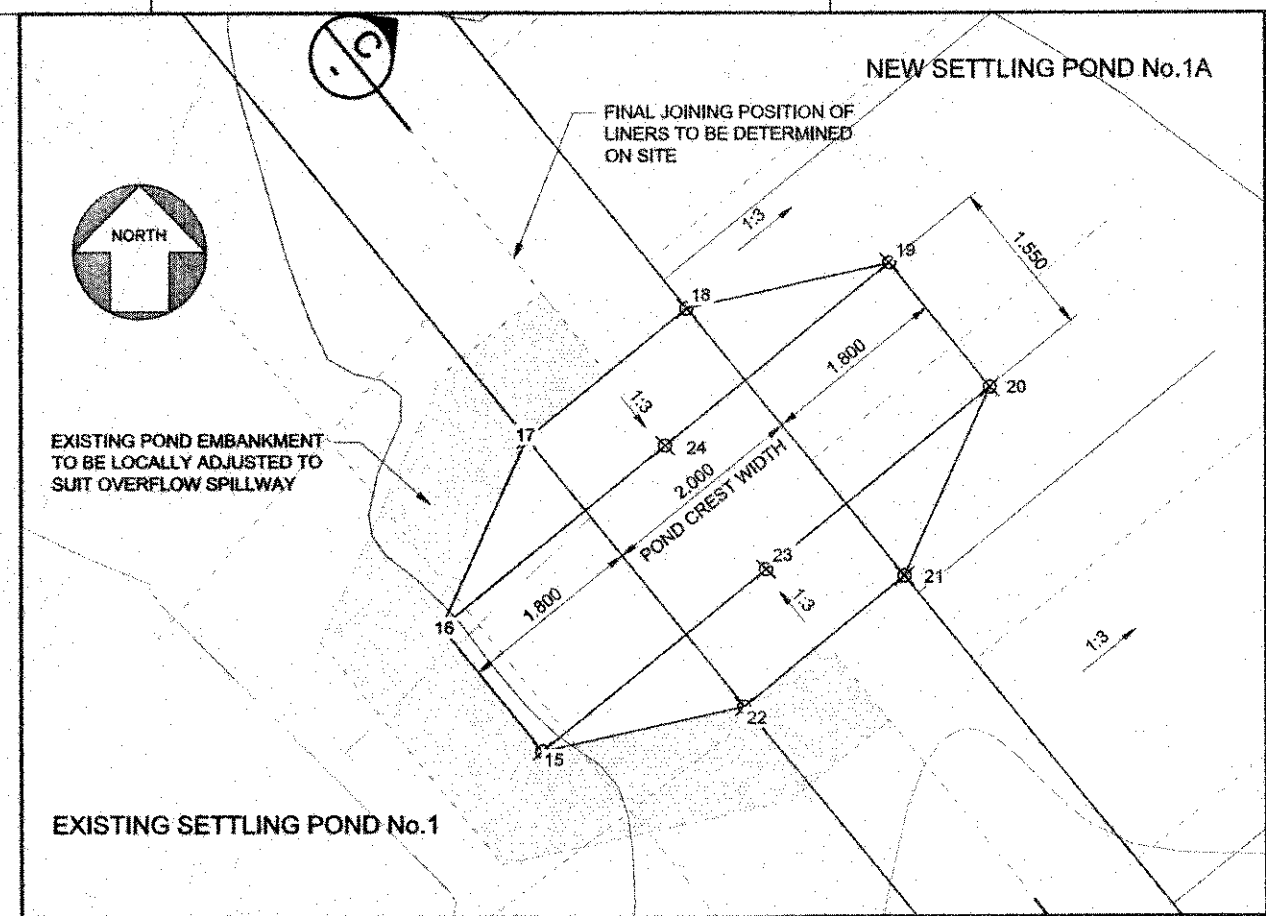
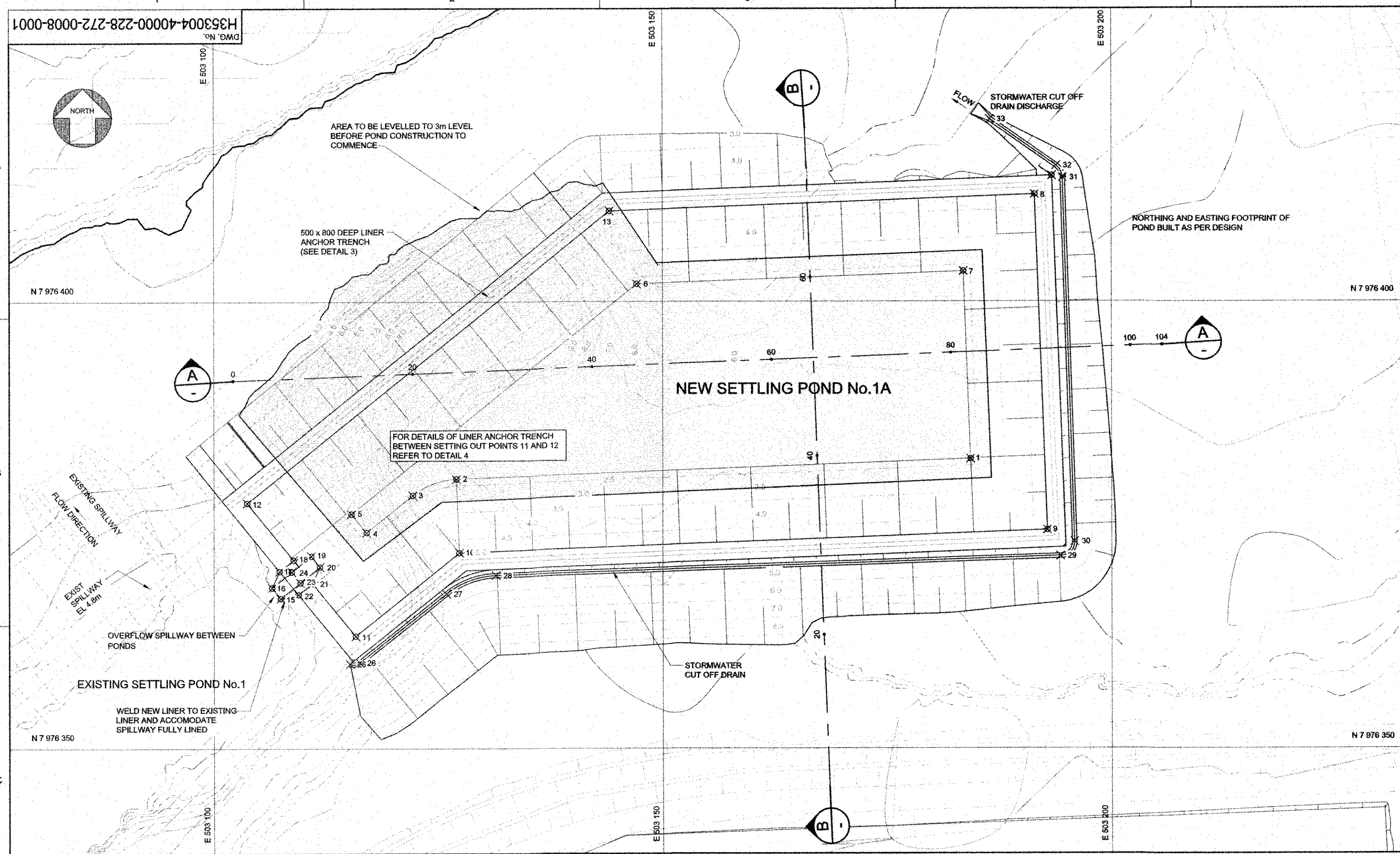
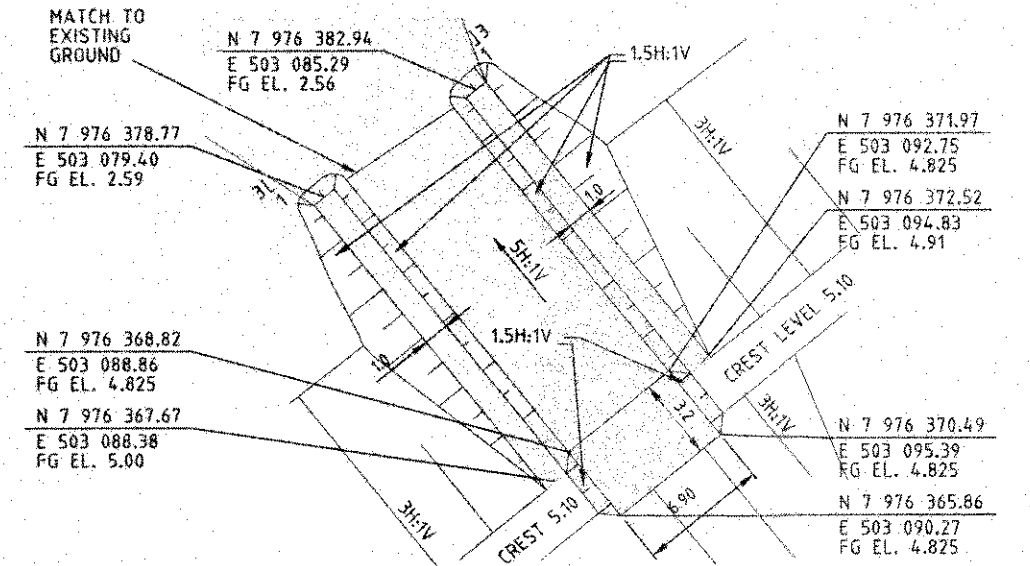
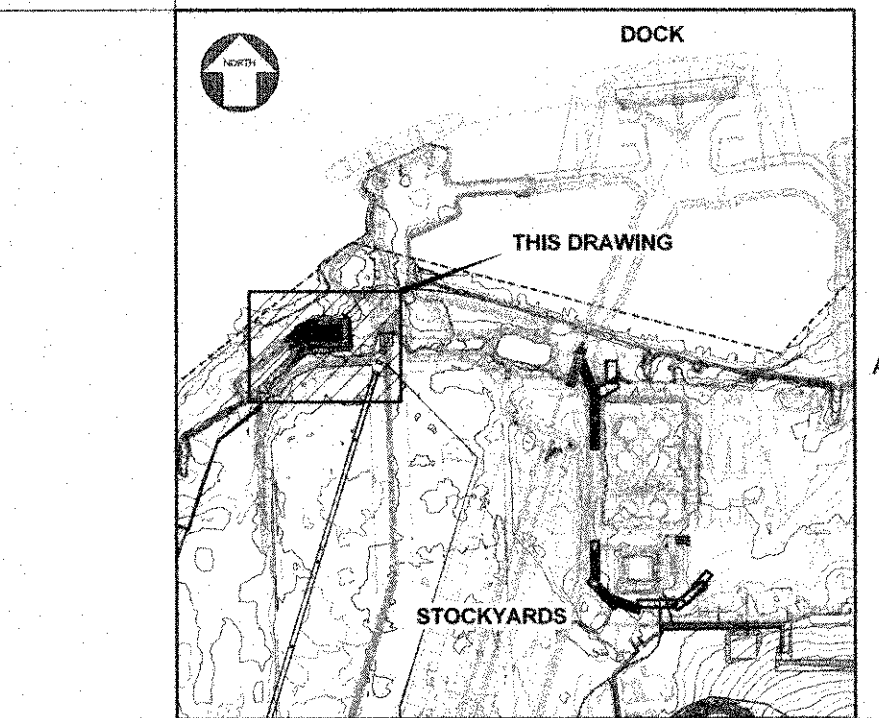




PLAN ON PONDS OVERFLOW SPILLWAY
SCALE 1:20



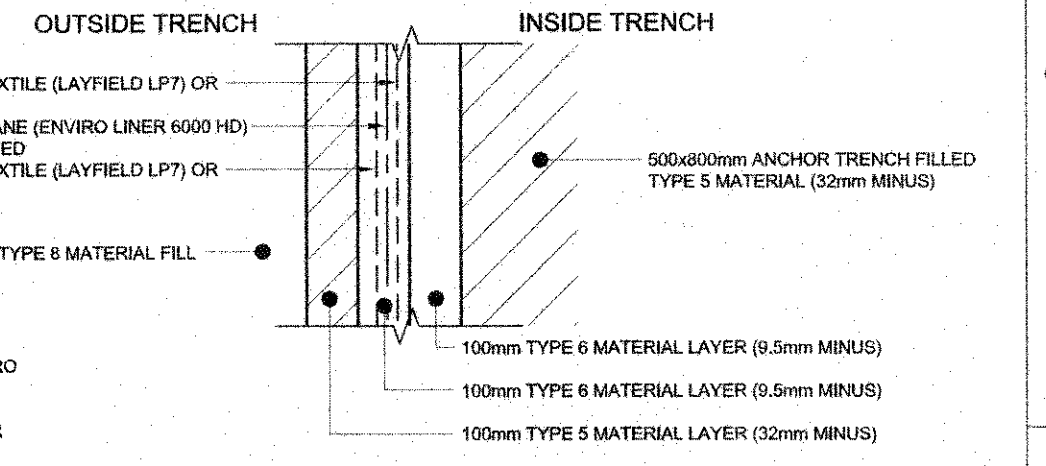
DETAIL - SEDIMENTATION POND No.1 WEIR
SCALE 1:20



KEY PLAN

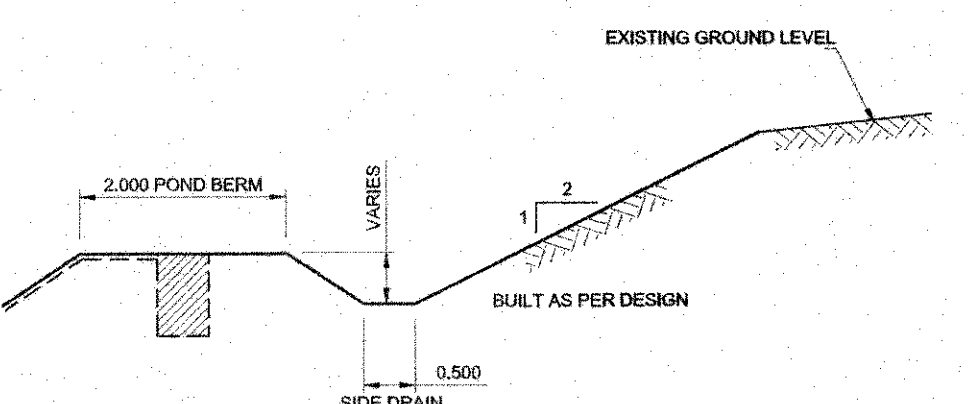
- NOTES:
- LIDAR SURVEY PROVIDED BY PHOTOSAT (2016).
 - CO-ORDINATE GRID IS SHOWN IN UTM (NAD83), ZONE 17 AND IS IN METERS.
 - CONTOURS ARE IN METERS. THE CONTOUR INTERVAL IS 0.5m.
 - ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
 - IT IS ASSUMED THAT ALL RUN OFF COLLECTED BY THE SETTLING POND IS NON-ACID GENERATING AND CAN BE DISCHARGED TO THE ENVIRONMENT ONCE THE REQUIREMENTS OF BLM ENVIRONMENTAL CRITERIA HAS BEEN ACHIEVED. WATER TO BE DISCHARGED TO AN APPROVED POINT, IN ACCORDANCE WITH THE CLIENT'S (BLM) ENVIRONMENTAL REQUIREMENTS.
 - THE INSTALLATION OF THE GEOMEMBRANE (ENVIRO LINER 6000HD) IS TO BE IN STRICT ACCORDANCE WITH THE SPECIALIST PROVIDER'S SPECIFICATIONS.
 - CREST LEVEL OF EXISTING POND SPILLWAY WAS RAISED TO 4.825m. IF GROUNDWATER ENCOUNTERED DURING CONSTRUCTION, POND 1A INVERT LEVEL MAY NEED TO BE ADJUSTED AS DIRECTED BY THE ENGINEER.

- LEGEND:
- CL CREST LEVEL
 - IL INVERT LEVEL
 - HWL HIGH WATER LEVEL
 - FBL FREE BOARD LEVEL
 - TYPE 4 GEOMEMBRANE (ENVIRO LINER 6000 HD) OR SIMILAR APPROVED
 - NON WOVEN GEO-TEXTILE (LAYFIELD LP7) OR SIMILAR APPROVED
 - EXISTING LINER

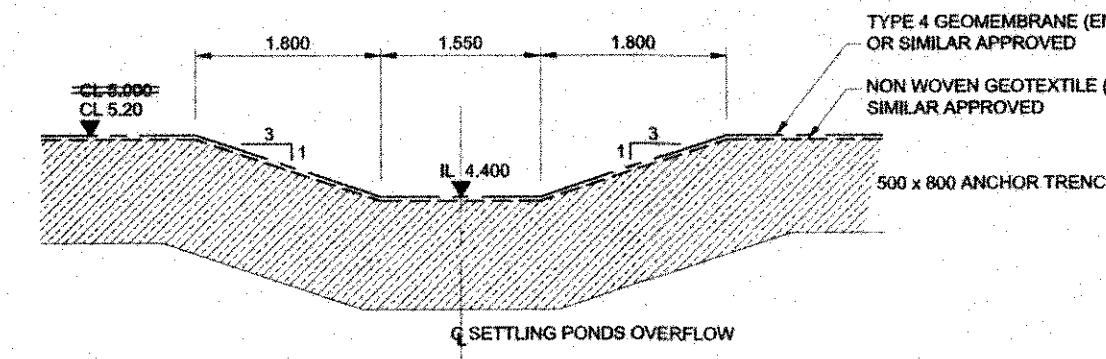


DETAIL 2 - TRENCH LINER
SCALE 1:10

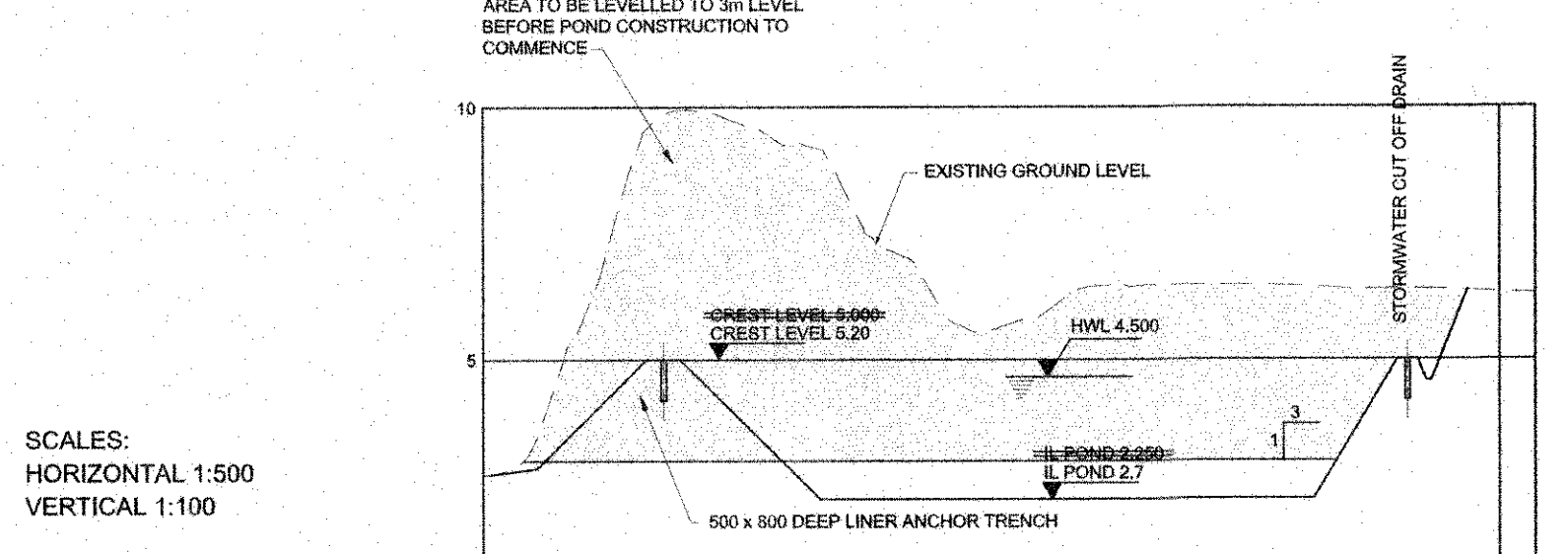
STORMWATER CUT OFF DRAIN SETTING OUT					
POINT	E	N	INVERT LEVEL	AS BUILT	
25	503115.142	7976359.482	-4.834	4.89	
26	503116.229	7976359.638	-4.833	4.86	
27	503125.889	7976367.371	-4.803	4.79	
28	503131.412	7976369.415	-4.788	4.76	
29	503194.284	7976371.534	-4.636	4.66	
30	503195.967	7976373.156	-4.633	4.63	
31	503194.562	7976413.802	-4.595	4.55	
32	503193.842	7976415.123	-4.834	4.54	
33	503196.457	7976420.295	-4.612	4.52	



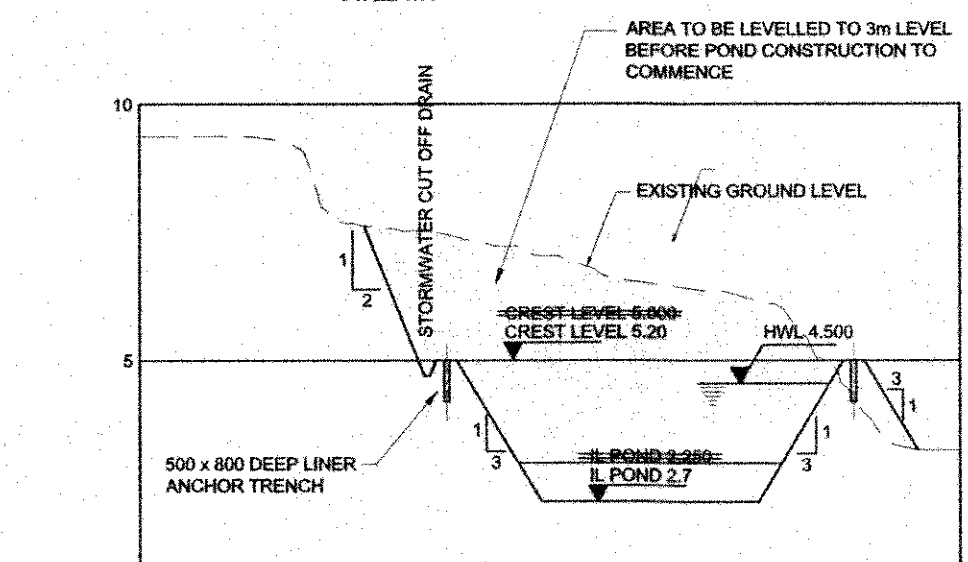
STORMWATER CUT OFF DRAIN - TYPICAL SECTION
SCALE 1:50



SECTION C - C
SCALE 1:50

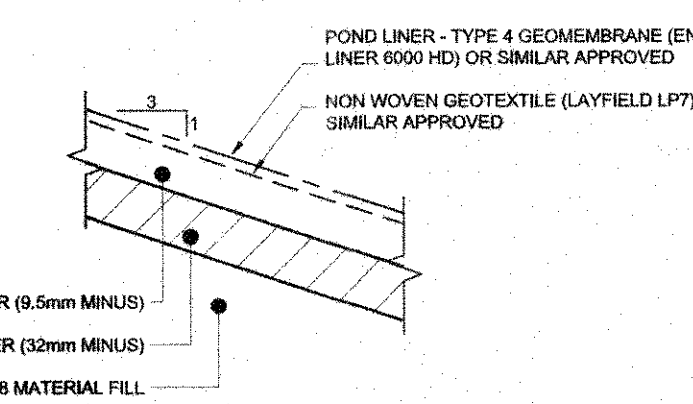


SECTION A - A
SCALE 1:50

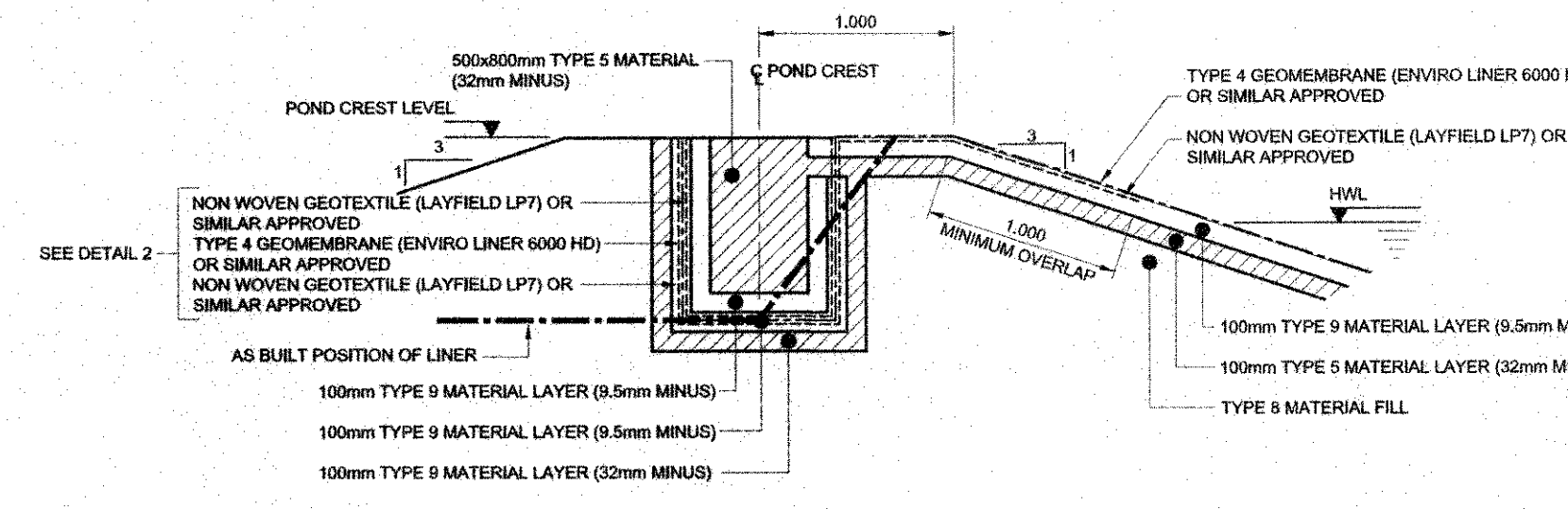


SECTION B - B
SCALE 1:50

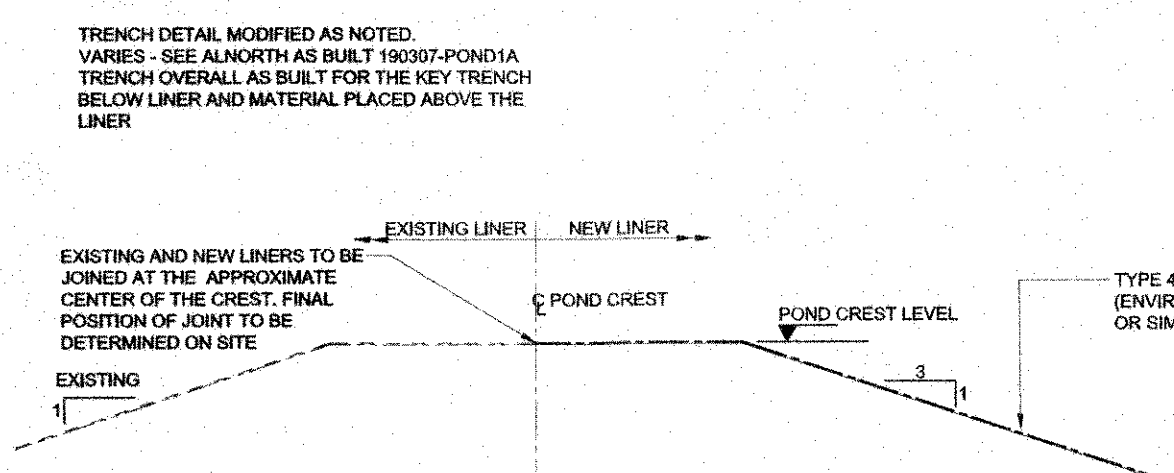
POND 1 AND 1A VOLUME CAPACITIES:	
POND 1:	3675m ³ (VOLUME AT SPILLWAY LEVEL = 4.825m)
POND 1A:	3709m ³ (VOLUME AT SPILLWAY LEVEL = 4.825m)
COMBINED CAPACITY:	3709 + 3075 = 6784m ³



DETAIL 1 - POND LINER
SCALE 1:10



DETAIL 3 - POND LINER ANCHOR TRENCH
SCALE 1:25



DETAIL 4 - POND LINER ANCHOR TRENCH BETWEEN POINTS 11 AND 12
SCALE 1:25

SETTLING POND EXTENSION SETTING OUT				
POINT	E	N	LEVEL	AS BUILT
1	503184.284	7976362.385	-2.250	2.700
2	503127.009	7976360.177	-2.250	2.700
3	503122.140	7976378.349	-2.250	2.700
4	503116.996	7976374.180	-2.250	2.700
5	503115.317	7976376.263	-2.250	2.700
6	503147.109	7976401.967	-2.250	2.700
7	503183.508	7976402.371	-2.250	2.700
8	503191.446	7976411.633	-5.000	5.200
9	503162.833	7976374.458	-5.000	5.200
10	503127.327	7976371.933	-5.000	5.200
11	503115.773	7976362.592	-5.000	5.200
12	503103.709	7976377.467	-5.000	5.200
13	503144.053	7976410.105	-5.000	5.200
14	503193.373	7976414.909	-5.000	5.200
15	503107.448	7976366.833	4.400	4.400
16	503106.472	7976368.038	4.400	4.400
17	503107.303	7976366.868	-5.000	5.200
18	503108.957	7976371.127	-5.000	5.200
19	503110.822	7976371.560	4.400	4.400
20	503111.797	7976370.354	4.400	4.400
21	503110.967	7976368.525	-5.000	5.200
22	503109.409	7976367.263	-5.000	5.200
23	503109.623	7976368.595	4.415	4.415
24	503106.646	7976366.798	4.415	4.415

SCALES:
HORIZONTAL 1:500
VERTICAL 1:100

DATUM 0.000

CUT / FILL	0	20	40	60	80	100	120
CUT / FILL	-5.053	-4.466	-4.466	-3.741	-3.741	-3.741	-3.741
CENTRE LINE (CL)	4.953	2.70	2.70	2.70	2.70	2.70	2.70
GROUND LEVELS ON CL	9.943	7.165	6.441	6.441	6.441	6.441	6.441
DISTANCE (m)	0	20	40	60	80	100	120

SECTION A - A
SCALE 1:50

SCALES:
HORIZONTAL 1:500
VERTICAL 1:100

DATUM 0.000

CUT / FILL	0	20	40	60	80	100	120
CUT / FILL	-5.053	-4.466	-4.466	-3.741	-3.741	-3.741	-3.741
CENTRE LINE (CL)	4.953	2.70	2.70	2.70	2.70	2.70	2.70
GROUND LEVELS ON CL	9.943	7.165	6.441	6.441	6.441	6.441	6.441
DISTANCE (m)	0	20	40	60	80	100	120

SECTION B - B
SCALE 1:50

FOR RECORD

HATCH

Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER EXPANSION PROJECT

PORT SITE
STOCKPILE No.1 SETTLING POND No.1A
PLAN AND PROFILE

DRAWING No.	DRAWING TITLE
H340000-2345-10-035-0001	ORE STOCKPILE SEDIMENTATION PONDS - 'AS-BUILT'
H353004-40000-220-272-0008-0001	2018 SURFACE WATER MANAGEMENT PLAN
DRAWING No.	DRAWING TITLE
REFERENCE DRAWINGS	

REG. PROFESSIONAL

REVISIONS

DRAWING APPROVAL STATUS:

SCALE 1:250

REV 3

SHEET SIZE: E