

Sheet Size: B1 (100mm x 707mm)  
PLOT: Monday, March 13, 2017 1:26:07 PM  
Saved by: Eros, Craig  
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Public Works and  
Government Services  
Canada

Travaux publics et  
Services gouvernementaux  
Canada



Aboriginal Affairs and  
Northern Development Canada

REAL PROPERTY SERVICES  
Western Region

Canada

REMEDIATION PROJECT

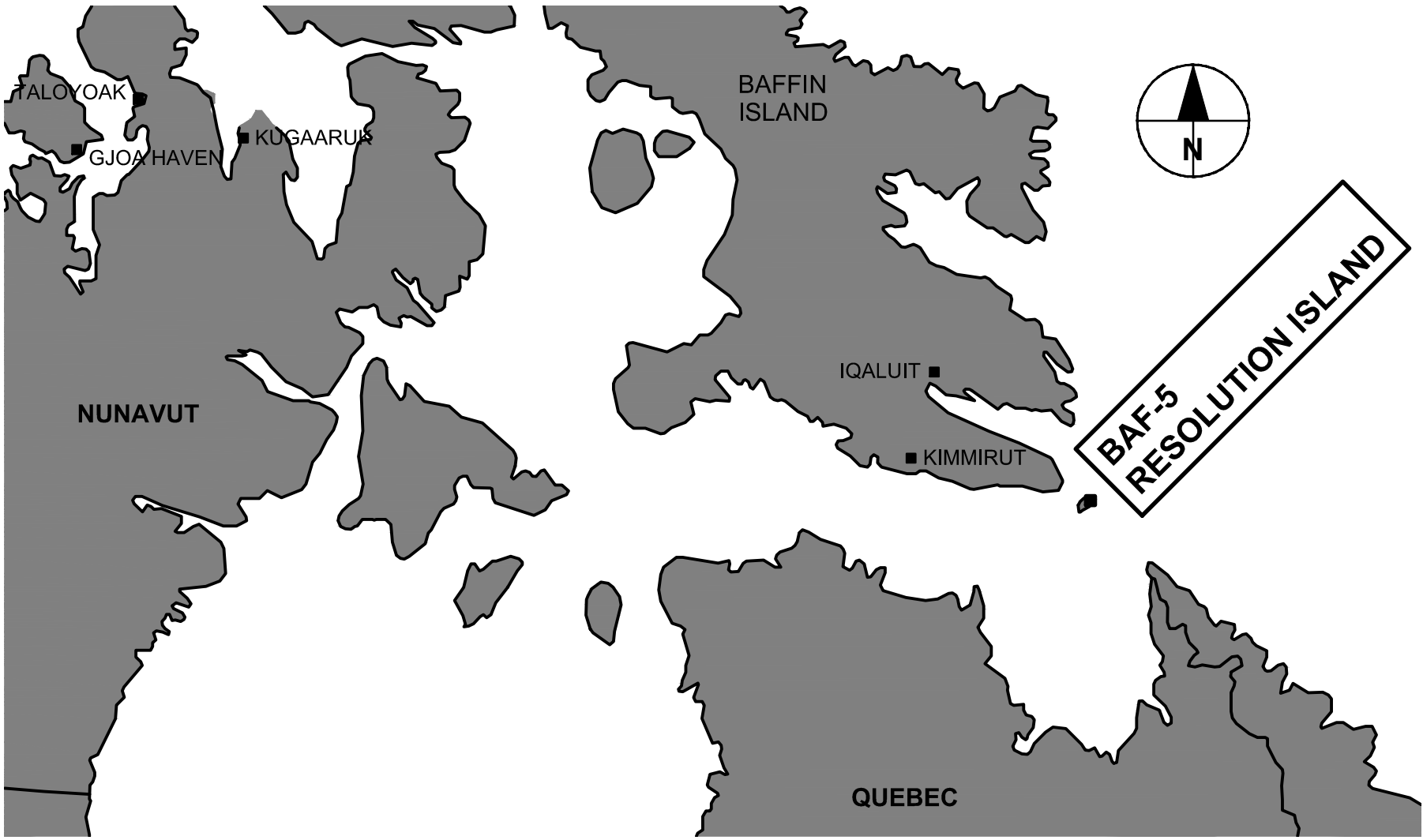
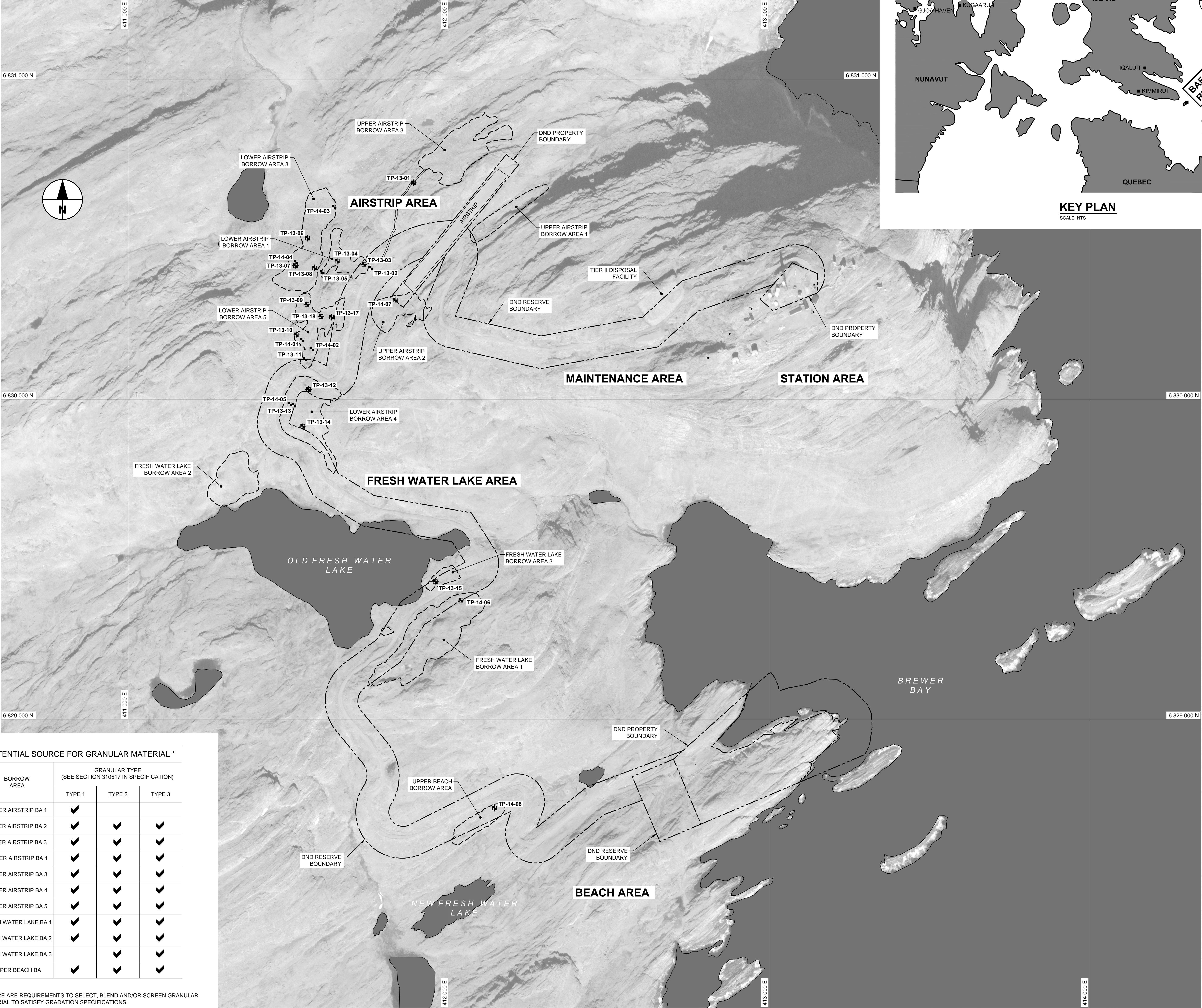
DRAWING INDEX			
SHEET NO.	TITLE		SHEET NO. TITLE
CIVIL		CIVIL	
R.064676	C00	COVER SHEET	R.064676 C06 BEACH AREA SITE PLAN
R.064676	C01	SITE LOCATION PLAN	R.064676 C07 PERMEABLE REACTIVE BARRIER CONTAMINATED SOIL DETAILS
R.064676	C02	OVERALL SITE PLAN	
R.064676	C03	STATION AREA SITE PLAN	STRUCTURAL
R.064676	C04	AIRSTRIp AREA SITE PLAN	R.064676 S01 FUEL TANKS PLANS AND ELEVATIONS
R.064676	C05	FRESH WATER LAKE AREA SITE PLAN AND CULVERT INSTALLATION DETAIL	R.064676 S02 PERMEABLE REACTIVE BARRIER DETAILS



BAF-5 - RESOLUTION ISLAND, NU  
Issued for Tender  
March 2017








KEY PLAN  
SCALE: NTS

POTENTIAL SOURCE FOR GRANULAR MATERIAL *				
BORROW AREA	GRANULAR TYPE (SEE SECTION 310517 IN SPECIFICATION)			
	TYPE 1	TYPE 2	TYPE 3	
UPPER AIRSTRIP BA 1	✓			
UPPER AIRSTRIP BA 2	✓	✓	✓	
UPPER AIRSTRIP BA 3	✓	✓	✓	
LOWER AIRSTRIP BA 1	✓	✓	✓	
LOWER AIRSTRIP BA 3	✓	✓	✓	
LOWER AIRSTRIP BA 4	✓	✓	✓	
LOWER AIRSTRIP BA 5	✓	✓	✓	
FRESH WATER LAKE BA 1	✓	✓	✓	
FRESH WATER LAKE BA 2	✓	✓	✓	
FRESH WATER LAKE BA 3		✓	✓	
UPPER BEACH BA	✓	✓	✓	

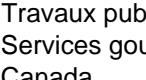
\* THERE ARE REQUIREMENTS TO SELECT, BLEND AND/OR SCREEN GRANULAR MATERIAL TO SATISFY GRADATION SPECIFICATIONS.

\* MOISTURE CONDITIONING OF MATERIAL FROM BORROW SOURCES MAY BE REQUIRED.

\* THERE ARE REQUIREMENTS TO DRY MATERIAL FROM SEVERAL BORROW AREAS.



Public Works and Government Services Canada



Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES  
Western Region  
SERVICES IMMOBILIERS  
Région de l'ouest

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2. ALL DIMENSIONS AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.

LEGEND:

--- APPROXIMATE EXTENT OF BORROW AREA

- - - APPROXIMATE LOCATION OF PROPERTY BOUNDARIES

✦ TESTPIT

Professional Seals / Sceaux

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Revision/Revision	Description/Description	Date/Date
Client/client		

PUBLIC WORKS  
GOVERNMENT SERVICES  
CANADA

Project title/Titre du projet

BAF-5  
REMEDATION PROJECT

Approved by/Approuvé par  
R. MERKOSKY

Designed by/Concepté par  
R. STUDER-HALBACH

Drawn by/Dessiné par  
C. EROS

PWSSC Project Manager/Administrateur de Projets TPSSC  
C. MOORE

PWSSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSSC

Client/client  
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

SITE LOCATION PLAN

Project No./No. du projet  
R.064676

Sheet/Feuille  
C01  
OF 7

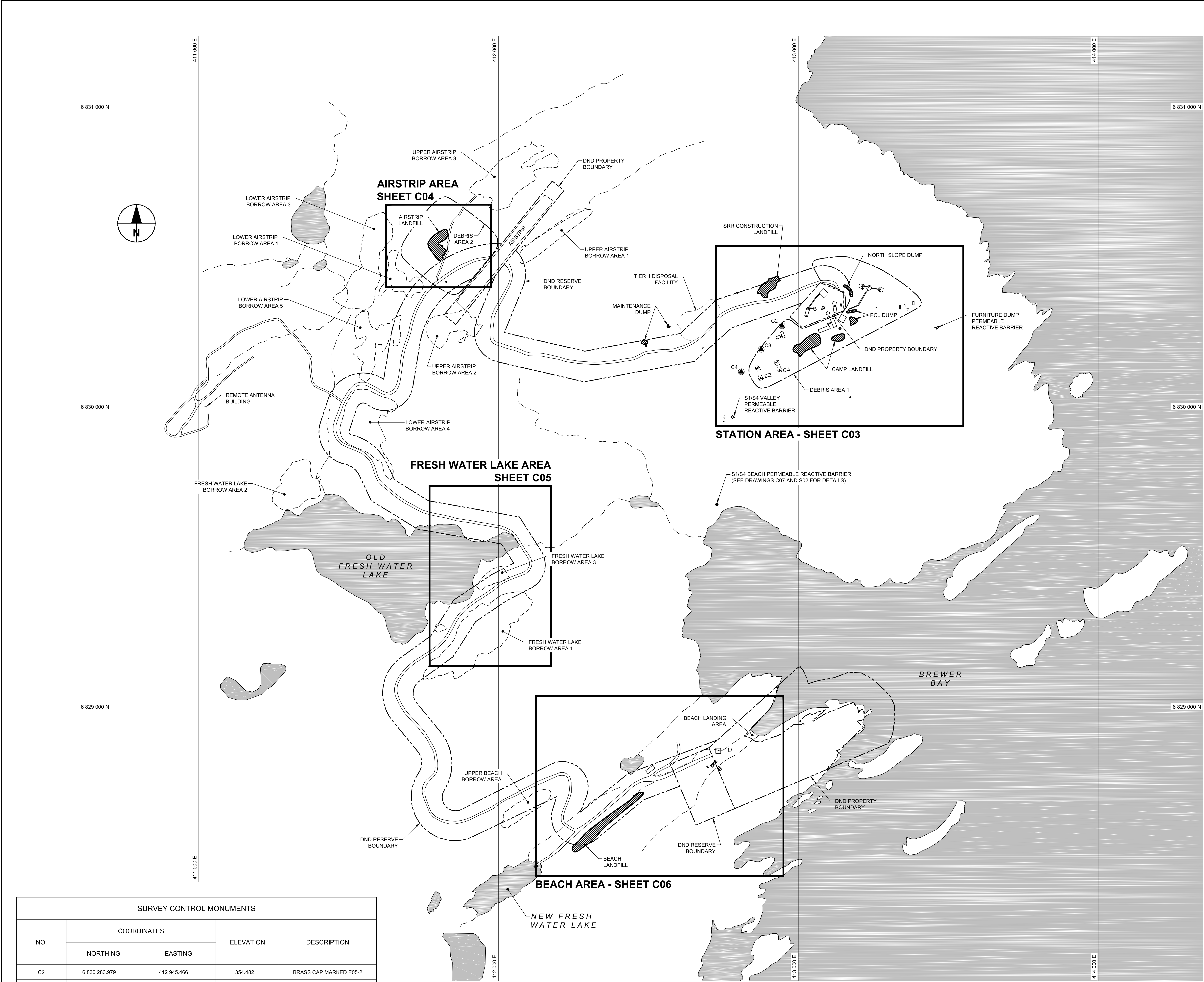
Revision no./La Révision no.  
B

0 10 20 30 40 50 60 70 80 90 100 mm

0 125 250 m  
1:5000

R.064676\_C01-RX.dwg





SURVEY CONTROL MONUMENTS				
NO.	COORDINATES		ELEVATION	DESCRIPTION
	NORTHING	EASTING		
C2	6 830 283.979	412 945.466	354.482	BRASS CAP MARKED E05-2
C3	6 830 205.503	412 875.851	337.739	BRASS CAP MARKED E05-3
C4	6 830 130.578	412 809.424	350.428	BRASS CAP MARKED E05-4

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3. SURFICIAL BEDROCK, BOULDER FIELDS AND BOULDERS MAY BE PRESENT OR ENCOUNTERED DURING EXCAVATION WITHIN THE PLAN AREA.

LEGEND:

- APPROXIMATE EXTENT OF BORROW AREA
- APPROXIMATE EXTENT OF DEBRIS AREA
- APPROXIMATE LOCATION OF PROPERTY BOUNDARIES
- EXISTING LANDFILL / DUMP
- SURVEY CONTROL MONUMENT
- DRAINAGE

Professional Seals / Sceaux

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C. MOORE

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Ressources Architectural et de Directeur d'ingénierie, TPSSC

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OVERALL SITE PLAN

Project No./No. du projet

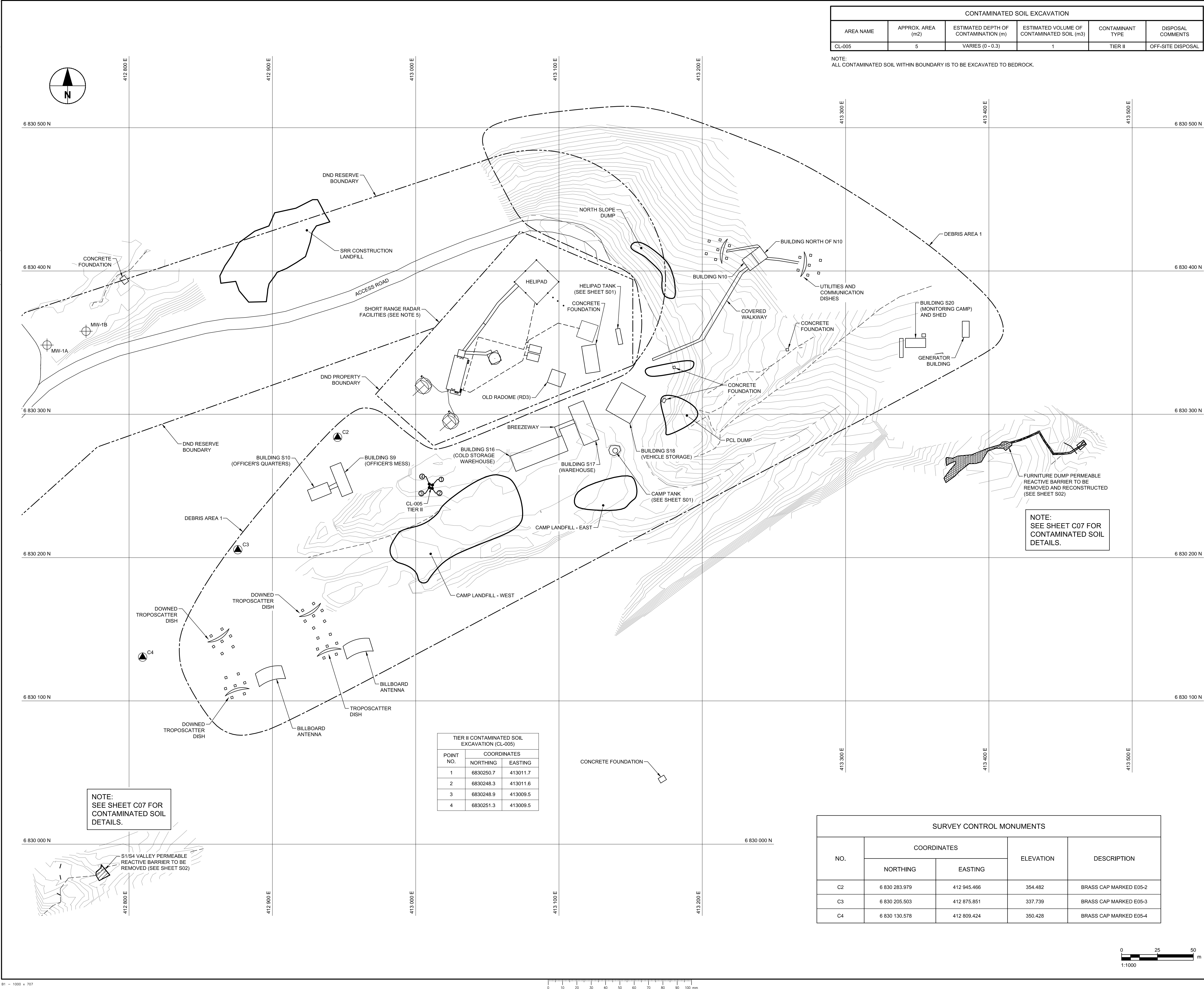
R.064676

Sheet/Feuille

C02  
OF 7

Revision no./  
La Révision no.

B



CONTAMINATED SOIL EXCAVATION					
AREA NAME	APPROX. AREA (m2)	ESTIMATED DEPTH OF CONTAMINATION (m)	ESTIMATED VOLUME OF CONTAMINATED SOIL (m3)	CONTAMINANT TYPE	DISPOSAL COMMENTS
CL-005	5	VARIES (0 - 0.3)	1	TIER II	OFF-SITE DISPOSAL

NOTE:  
ALL CONTAMINATED SOIL WITHIN BOUNDARY IS TO BE EXCAVATED TO BEDROCK.

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- ALL DIMENSIONS AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.
- REFER TO APPENDIX B OF SPECIFICATIONS FOR DESCRIPTIONS OF DEBRIS AREAS.
- ALL SURFACE DEBRIS IS TO BE REMOVED FROM ALL CONTAMINATED SOIL AREAS PRIOR TO ANY EXCAVATION TAKING PLACE.
- ALL SHORT RANGE RADAR (SRR) FACILITIES ARE CURRENTLY OPERATIONAL AND ARE NOT TO BE DISTURBED. THESE INCLUDE ALL BUILDINGS, STRUCTURES, ELECTRICAL POWER CABLES, FUEL STORAGE TANKS AND PIPELINES NOT SCHEDULED FOR DEMOLITION.

LEGEND:

- APPROXIMATE EXTENT OF DEBRIS AREA
- APPROXIMATE LOCATION OF PROPERTY BOUNDARIES
- SURVEY CONTROL MONUMENT
- EXISTING MONITORING WELL
- DRAINAGE
- HAZARDOUS CONTAMINATED SOIL
- TIER I CONTAMINATED SOIL
- TIER II CONTAMINATED SOIL

Professional Seals / Sceaux

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PUBLIC WORKS  
GOVERNMENT SERVICES  
CANADA

Project title/Titre du projet

BAF-5  
REMEDATION PROJECT

Approved by/Approuvé par

R. MERKOSKY

Designed by/Concept par

R. STUDER-HALBACH

Drawn by/Dessiné par

C. EROS

PWSSC Project Manager/Administrateur de Projets TPSSC

C. MOORE

PWSSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSSC

Client/client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

STATION AREA  
SITE PLAN

Project No./No. du projet

R.064676

Sheet/Feuille

C03  
OF 7

Revision no./  
La Révision no.

B





TIER II CONTAMINATED SOIL EXCAVATION (AL-236)		
POINT NO.	COORDINATES	
	NORTHING	EASTING
5	6830558.7	411780.4
6	6830556.5	411782.3
7	6830553.4	411780.2
8	6830555.2	411778.1

CONTAMINATED SOIL EXCAVATION					
AREA NAME	APPROX. AREA (m2)	ESTIMATED DEPTH OF CONTAMINATION (m)	ESTIMATED VOLUME OF CONTAMINATED SOIL (m3)	CONTAMINANT TYPE	DISPOSAL COMMENTS
AL-236	11	0.3	4	TIER II	OFF-SITE DISPOSAL



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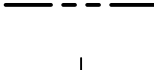
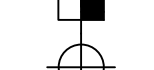
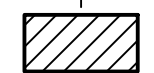

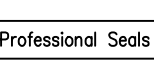
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- ALL SURFACE DEBRIS IS TO BE REMOVED FROM ALL CONTAMINATED SOIL AREAS PRIOR TO ANY EXCAVATION TAKING PLACE.
- SEE SHEET C02 FOR FULL EXTENT OF BORROW AND DEBRIS AREAS.

#### LEGEND:

-  APPROXIMATE EXTENT OF BORROW AREA
-  APPROXIMATE EXTENT OF DEBRIS AREA
-  APPROXIMATE LOCATION OF PROPERTY BOUNDARIES
-  TESTPIT
-  EXISTING MONITORING WELL
-  TIER I CONTAMINATED SOIL
-  TIER II CONTAMINATED SOIL

Professional Seals / Sceaux

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Revision/ Revision	Description/Description	Date/Date

Client/client

### PUBLIC WORKS GOVERNMENT SERVICES CANADA

Project title/Titre du projet

### BAF-5 REMEDATION PROJECT

Approved by/Approuvé par

**R. MERKOSKY**

Designed by/Concept par

**R. STUDER-HALBACH**

Drawn by/Dessiné par

**C. EROS**

PWSC Project Manager/Administrateur de Projets TPSCC

**C. MOORE**

PWSC Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie, TPSCC

Client/client

**PUBLIC WORKS AND GOVERNMENT SERVICES CANADA**

Drawing title/Titre du dessin

### AIRSTRIP AREA SITE PLAN

Project No./No. du projet

**R.064676**

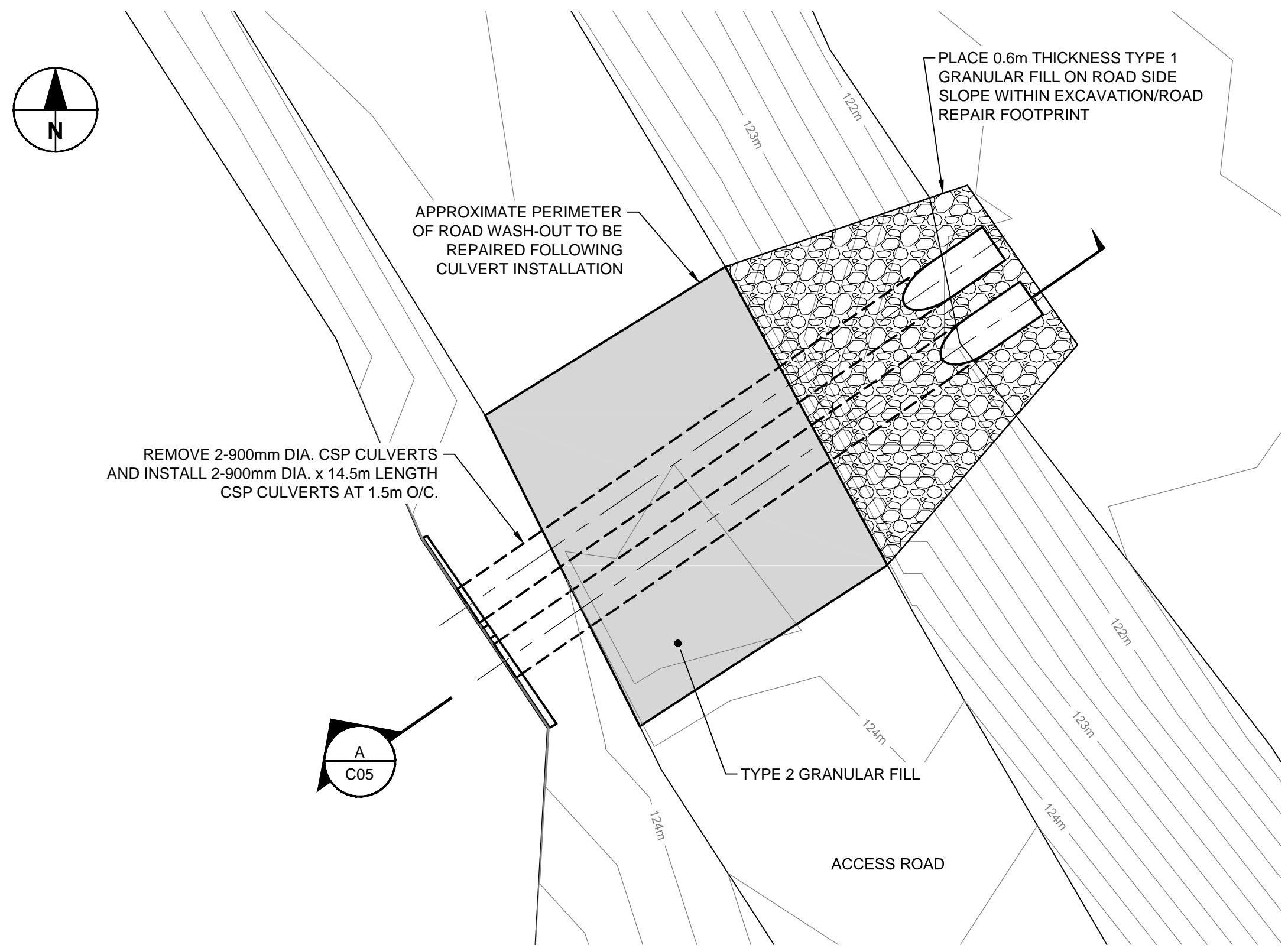
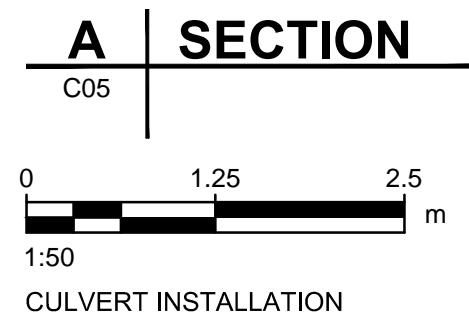
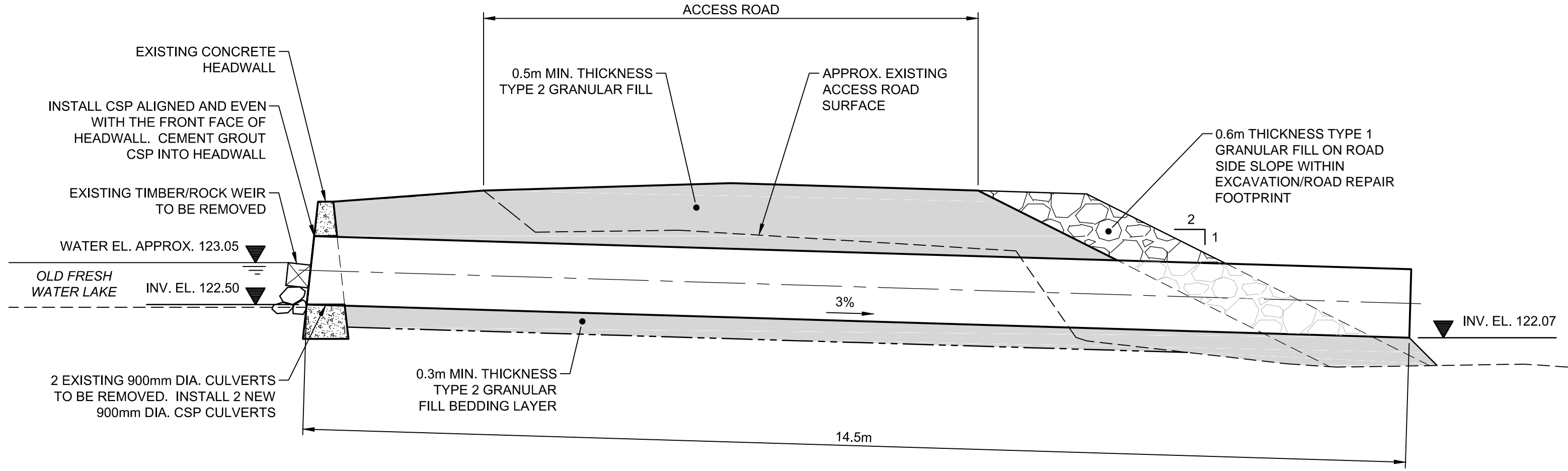
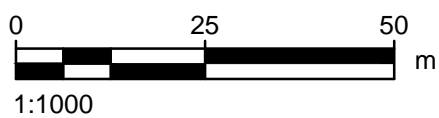
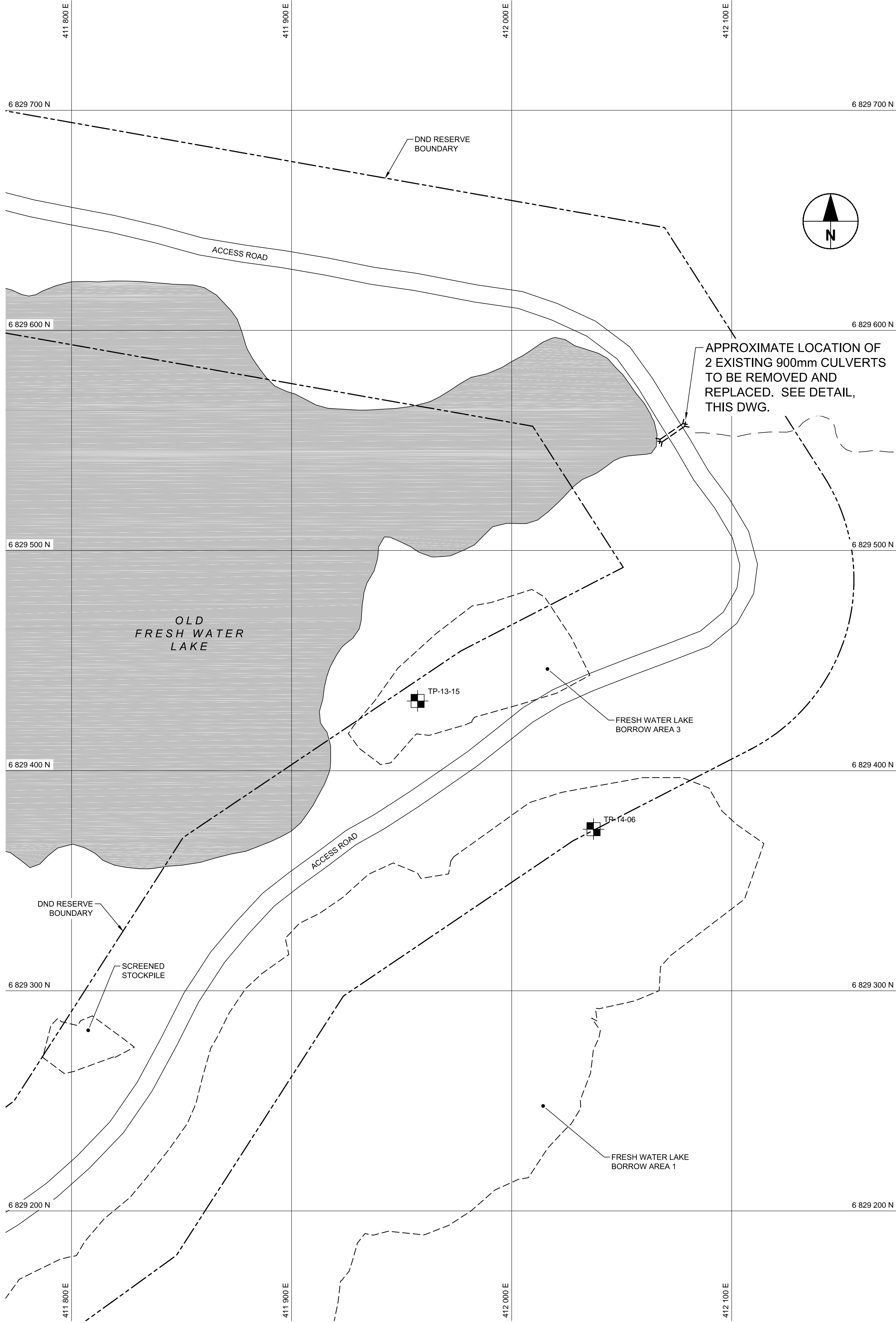
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**C04**  
OF 7

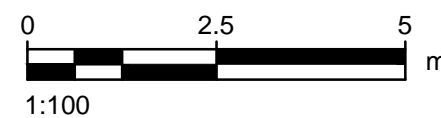
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**B**





PLAN - CULVERT INSTALLATION DETAIL



NOTE:  
CONTOUR INTERVAL IS 0.25m.

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- SEE SHEET C02 FOR FULL EXTENT OF BORROW AREAS.

LEGEND:

- APPROXIMATE EXTENT OF BORROW AREA
- APPROXIMATE LOCATION OF PROPERTY BOUNDARIES
- TESTPIT
- DRAINAGE

Professional Seals / Sceaux

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Client/client		

PUBLIC WORKS  
GOVERNMENT SERVICES  
CANADA

Project title/Titre du projet

BAF-5  
REMEDIATION PROJECT

Approved by/Approuvé par

R. MERKOSKY

Designed by/Concept par

D. MITCHELL

Drawn by/Dessiné par

C. EROS

PWSSC Project Manager/Administrateur de Projets TPSSC

C. MOORE

PWSSC Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie, TPSSC

Client/client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

FRESH WATER LAKE AREA  
SITE PLAN AND  
CULVERT INSTALLATION DETAIL

Project No./No. du projet

R.064676

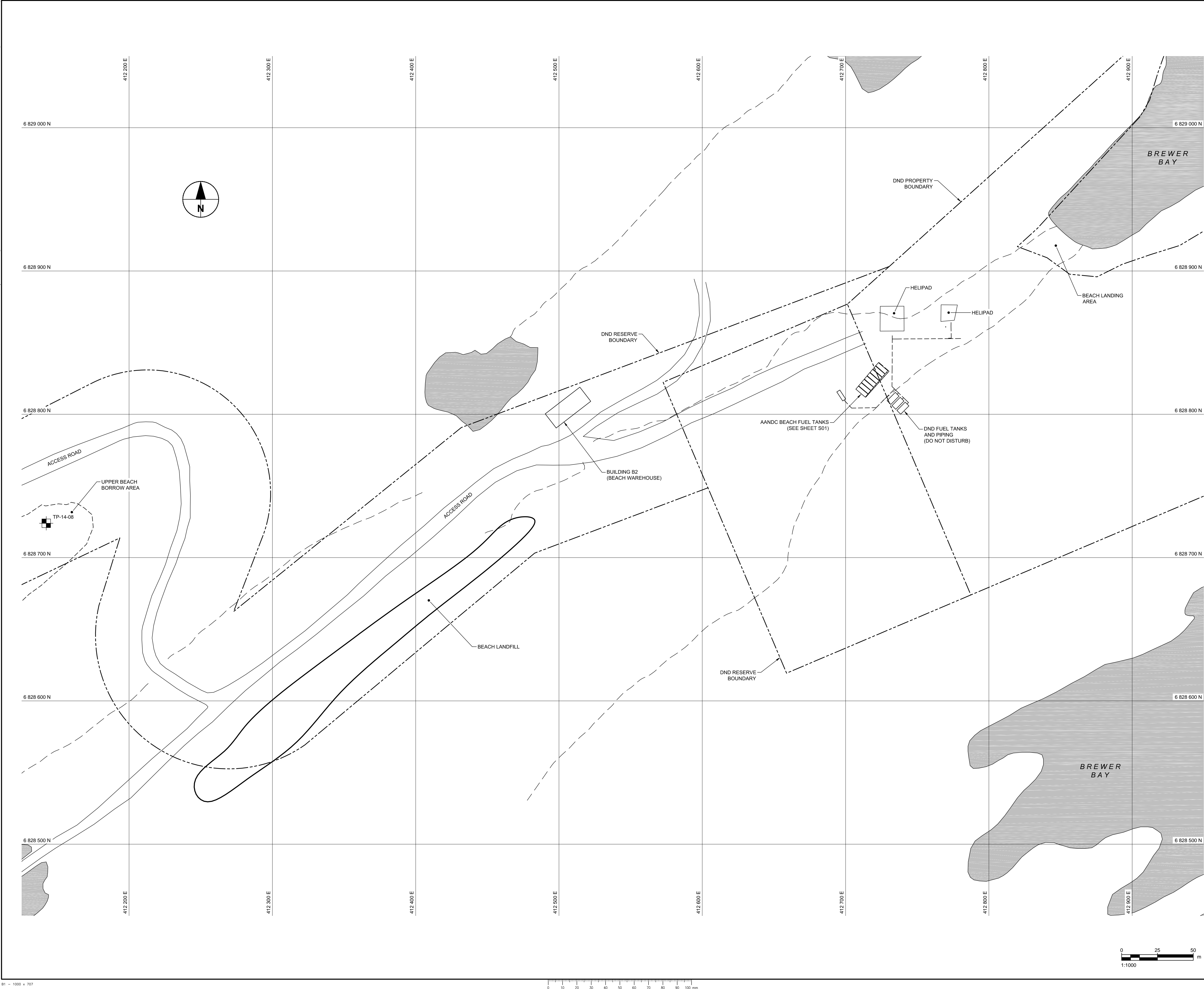
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C05  
OF 7

Revision no./  
La Révision no.

B





- GENERAL NOTES:
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  - ALL DIMENSIONS AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.
  - ALL NON-HAZARDOUS DEBRIS WITHIN PLAN AREA TO BE PLACED IN THE NON-HAZARDOUS WASTE LANDFILL.
  - REFER TO TABLE APPENDIX B OF SPECIFICATIONS FOR DESCRIPTIONS OF DEBRIS AREAS.
  - ALL SURFACE DEBRIS IS TO BE REMOVED FROM ALL CONTAMINATED SOIL AREAS PRIOR TO ANY EXCAVATION TAKING PLACE.
  - SEE SHEET C02 FOR FULL EXTENT OF BORROW AREAS.

- LEGEND:
- APPROXIMATE EXTENT OF BORROW AREA
  - APPROXIMATE EXTENT OF DEBRIS AREA
  - APPROXIMATE LOCATION OF PROPERTY BOUNDARIES
  - DRAINAGE

Professional Seals / Sceaux

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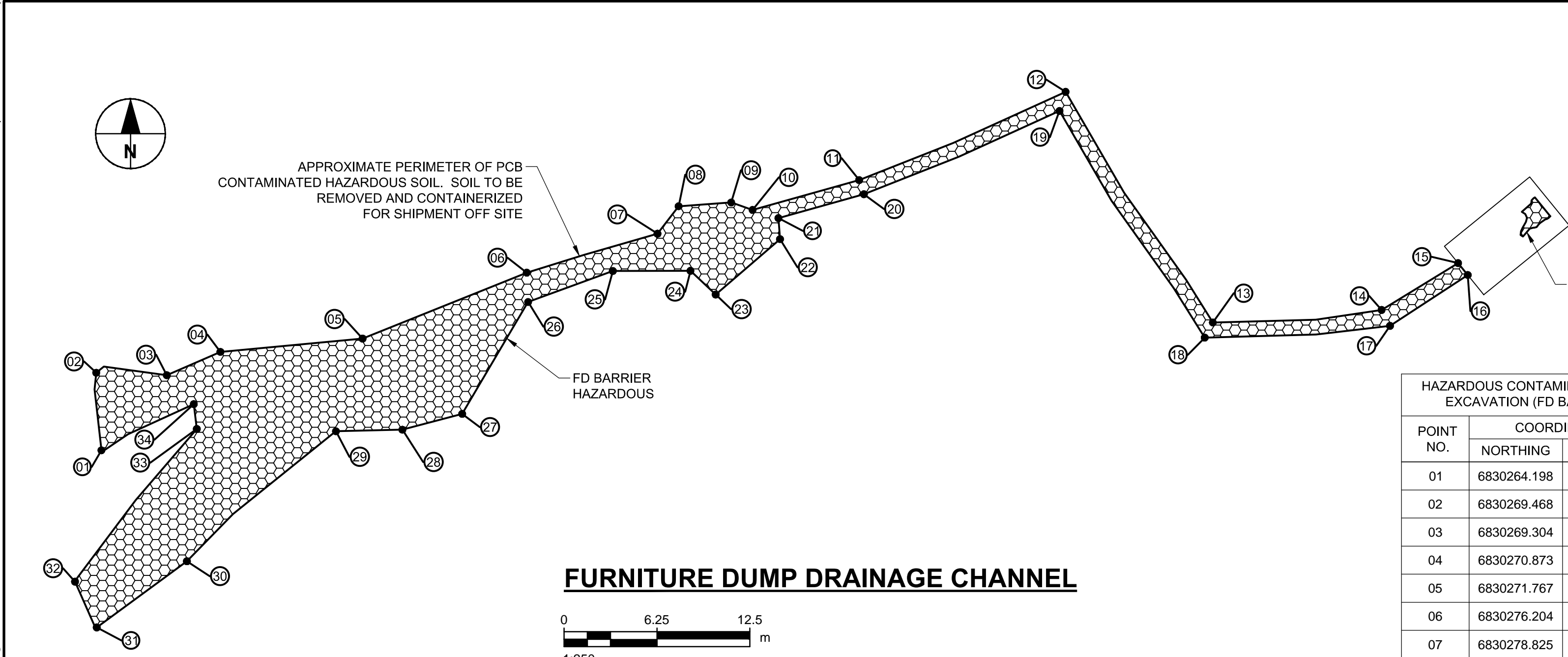
Client/client  
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

BEACH AREA  
SITE PLAN

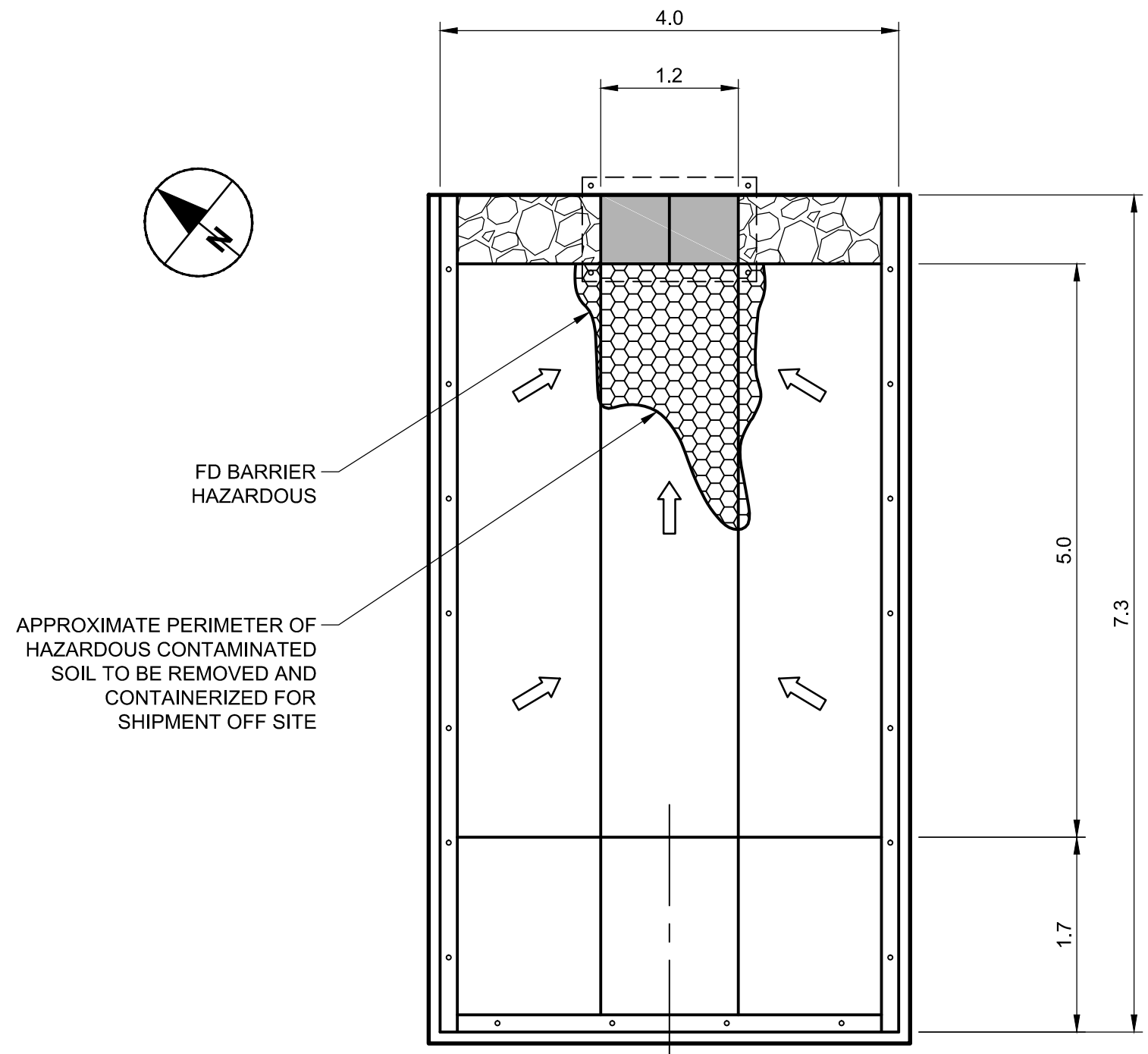
Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.064676	C06 OF 7	B



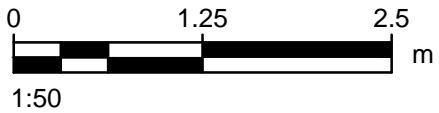


HAZARDOUS CONTAMINATED SOIL EXCAVATION (FD BARRIER)		
POINT NO.	COORDINATES	
	NORTHING	EASTING
01	6830264.198	413370.521
02	6830269.468	413370.054
03	6830269.304	413374.801
04	6830270.873	413378.407
05	6830271.767	413387.975
06	6830276.204	413399.018
07	6830278.825	413407.817
08	6830280.671	413409.239
09	6830280.926	413412.777
10	6830280.425	413414.215
11	6830282.430	413421.387
12	6830288.370	413435.277
13	6830272.850	413445.183
14	6830273.693	413456.538
15	6830277.163	413462.198
16	6830276.354	413462.804
17	6830272.624	413457.106

HAZARDOUS CONTAMINATED SOIL EXCAVATION (FD BARRIER)		
POINT NO.	COORDINATES	
	NORTHING	EASTING
18	6830271.834	413444.639
19	6830287.084	413434.866
20	6830281.481	413421.706
21	6830279.873	413415.953
22	6830278.459	413416.061
23	6830274.729	413411.731
24	6830276.329	413410.036
25	6830276.315	413404.811
26	6830274.229	413399.111
27	6830266.702	413394.676
28	6830265.637	413390.654
29	6830265.468	413385.922
30	6830256.788	413376.153
31	6830252.330	413370.088
32	6830255.484	413368.635
33	6830265.686	413376.819
34	6830267.355	413376.616

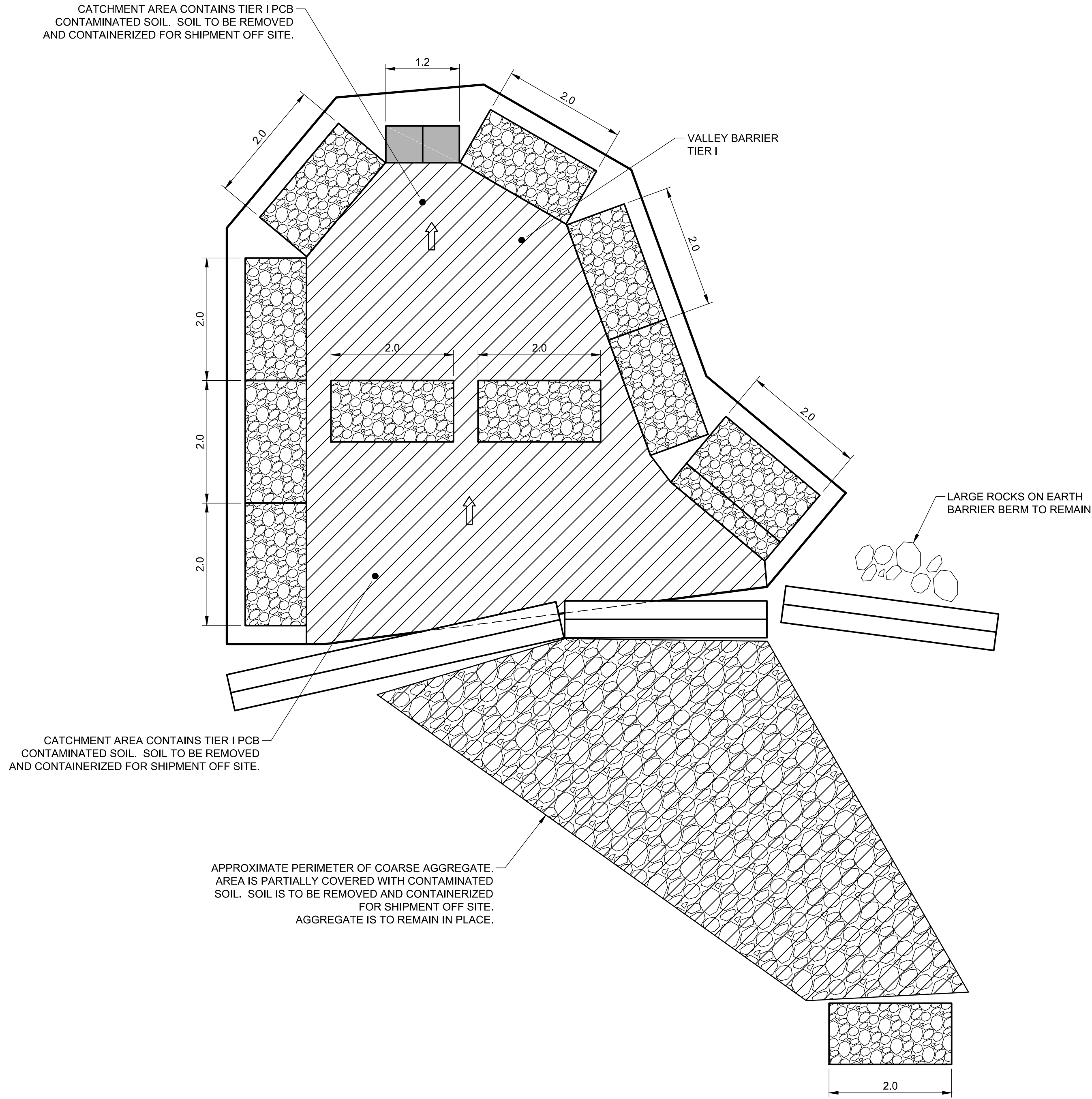


### FURNITURE DUMP PERMEABLE REACTIVE BARRIER

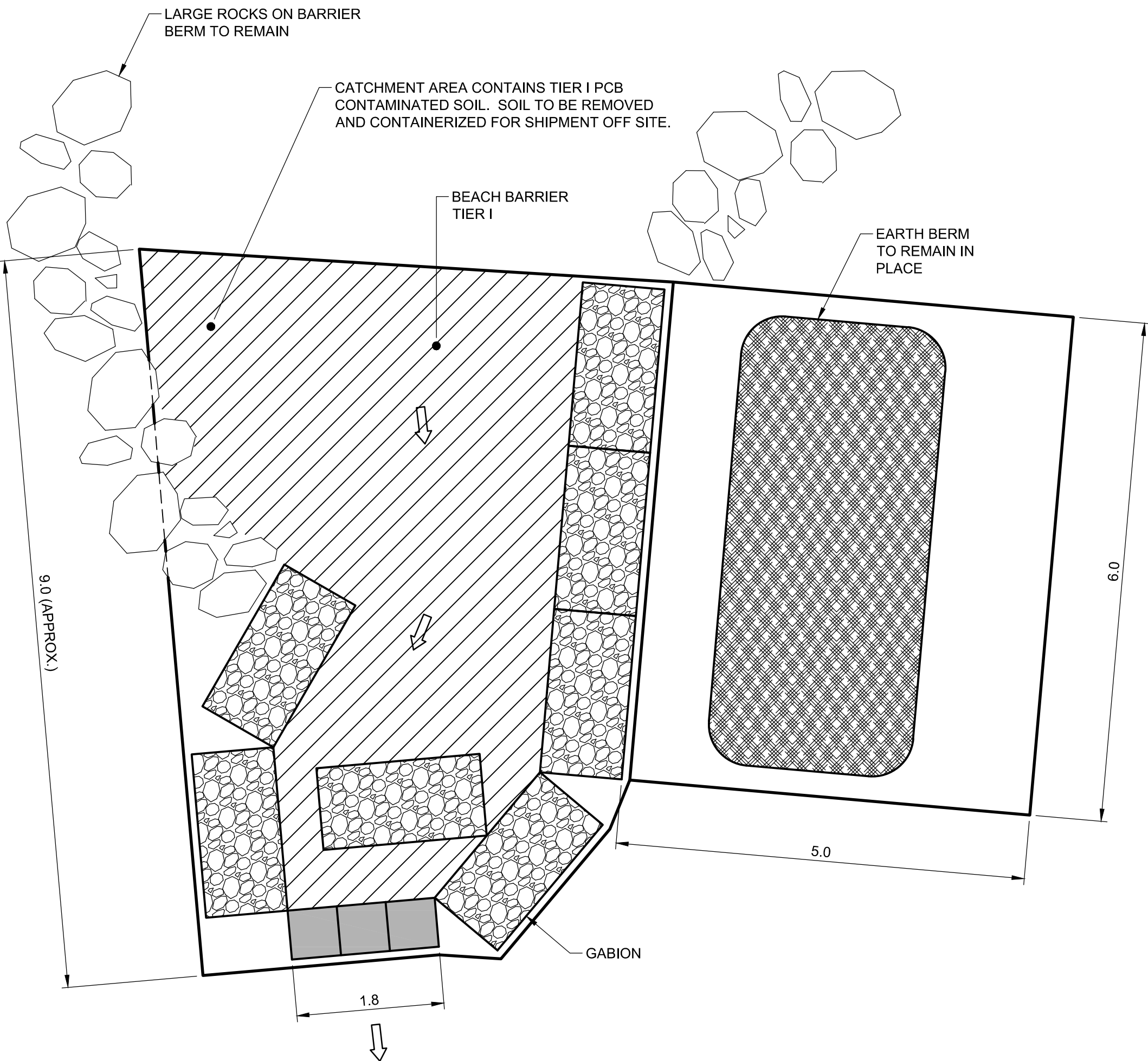
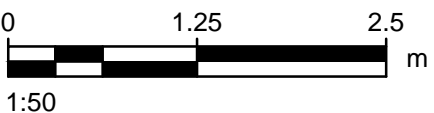


CONTAMINATED SOIL EXCAVATION							
AREA NAME	APPROX. AREA (m2)	ESTIMATED DEPTH OF CONTAMINATION (m)	ESTIMATED VOLUME OF CONTAMINATED SOIL (m3)	CONTAMINANT TYPE	DISPOSAL COMMENTS	COORDINATES	
						NORTHING	EASTING
FD BARRIER	320	VARIES (TO BEDROCK)	12	HAZARDOUS	OFF-SITE DISPOSAL	6 830 279	413 465
BEACH BARRIER	26	VARIES	19	TIER I	OFF-SITE DISPOSAL	6 829 680	412 720
VALLEY BARRIER	89	VARIES	8	TIER I	OFF-SITE DISPOSAL	6 829 979	412 780

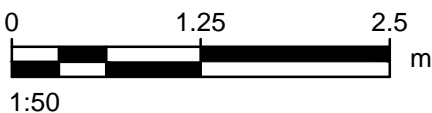
NOTE:  
CONTAMINATED SOIL IS PRESENT IN LOCALIZED AREAS WITHIN THE FD BARRIER CONTAMINATED SOIL BOUNDARY SHOWN.  
ALL CONTAMINATED SOIL WITHIN BOUNDARY IS TO BE EXCAVATED TO BEDROCK.



### S1/S4 VALLEY PERMEABLE REACTIVE BARRIER



### S1/S4 BEACH PERMEABLE REACTIVE BARRIER



NOTE:  
CONTAMINATED SOIL ASSOCIATED WITH THE PERMEABLE REACTIVE BARRIERS IS DIFFICULT TO ACCESS AND EXCAVATION IS LABOUR INTENSIVE.

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2. ALL DIMENSIONS ARE IN METRES, UNLESS NOTED OTHERWISE.
3. SEE SHEET S02 FOR PERMEABLE REACTIVE BARRIER STRUCTURAL DETAILS.

#### LEGEND:

- HAZARDOUS CONTAMINATED SOIL
- TIER I CONTAMINATED SOIL
- DIRECTION OF DRAINAGE

Professional Seals / Scales

#### DO NOT SCALE DRAWINGS

B	ISSUED FOR TENDER	17/03/27
A	ISSUED FOR 90% REVIEW	16/11/10
Revision/Revision	Description/Description	Date/Date

Client/client

### PUBLIC WORKS GOVERNMENT SERVICES CANADA

Project title/Titre du projet

### BAF-5 REMEDATION PROJECT

Approved by/Approuvé par

R. MERKOSKY

Designed by/Concept par

R. STUDER-HALBACH

Drawn by/Dessiné par

C. EROS

PMSC Project Manager/Administrateur de Projets TPSCC

C. MOORE

PMSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSCC

Client/client

PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Drawing title/Titre du dessin

### PERMEABLE REACTIVE BARRIER CONTAMINATED SOIL DETAILS

Project No./No. du projet

R.064676

Sheet/Feuille

C07

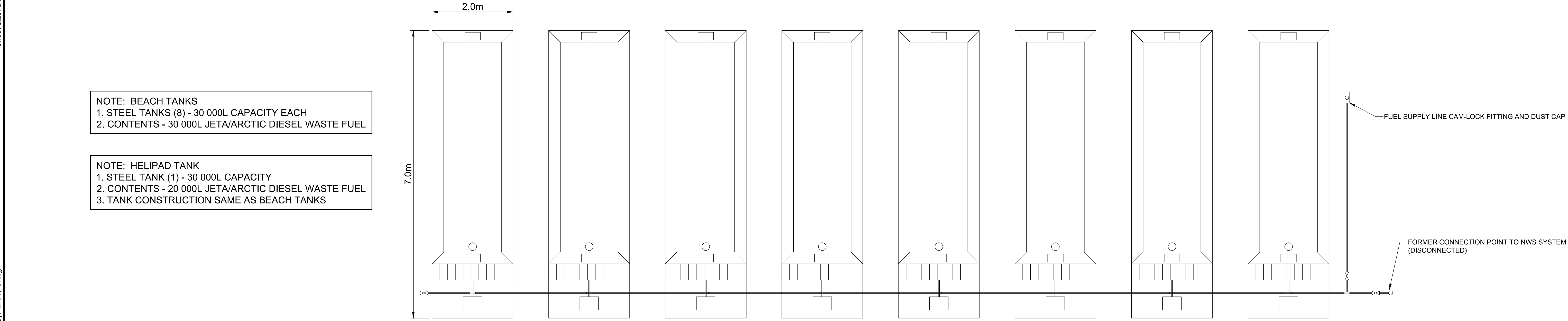
OF 7

Revision no./

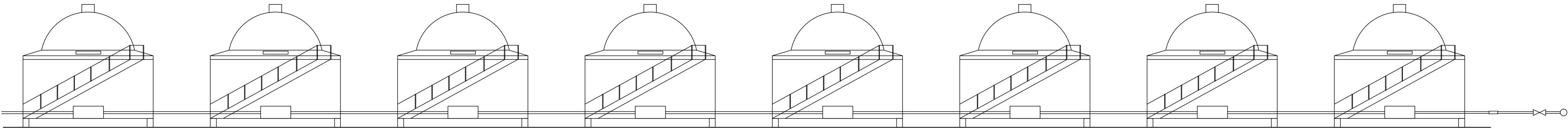
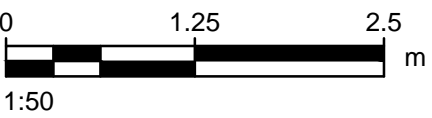
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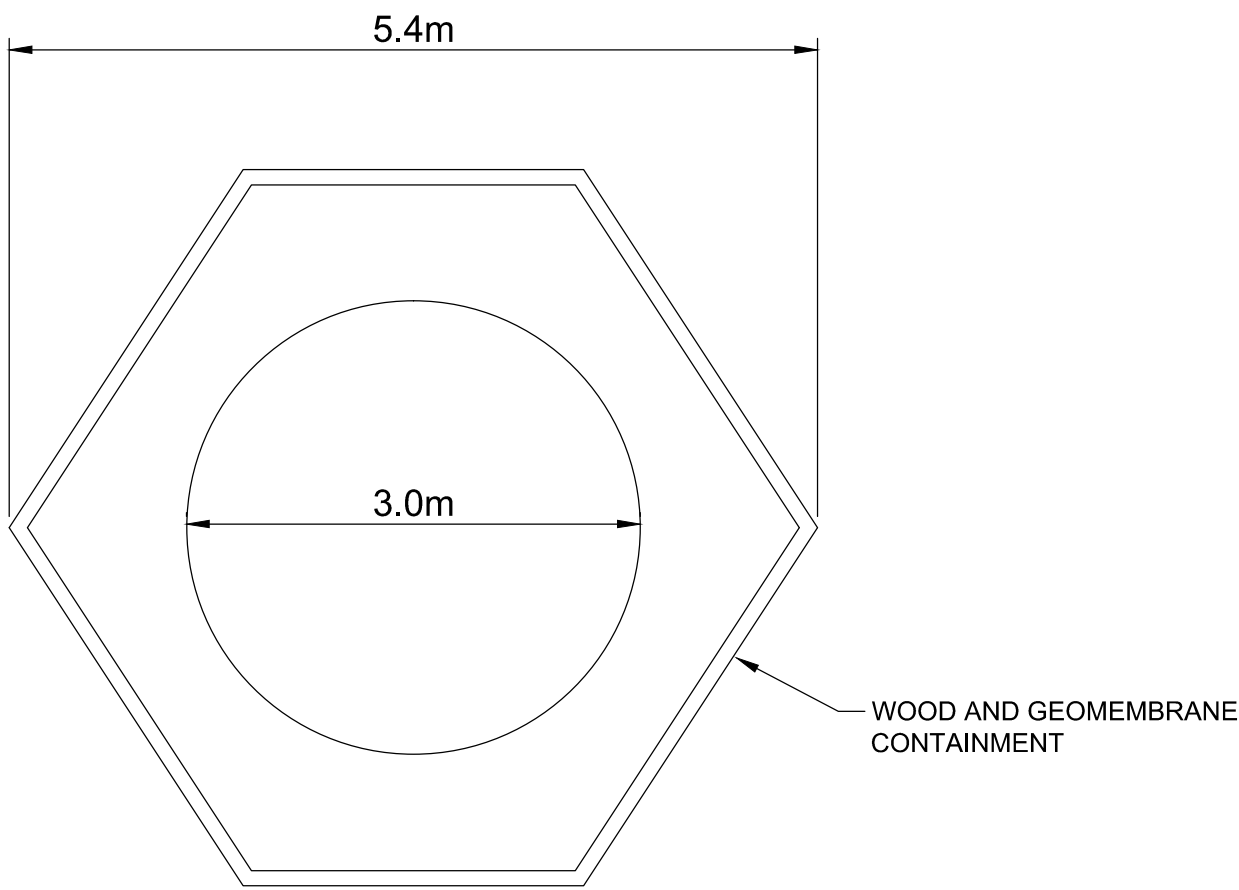
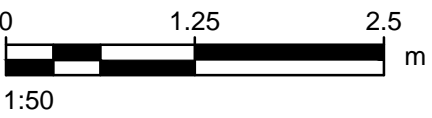




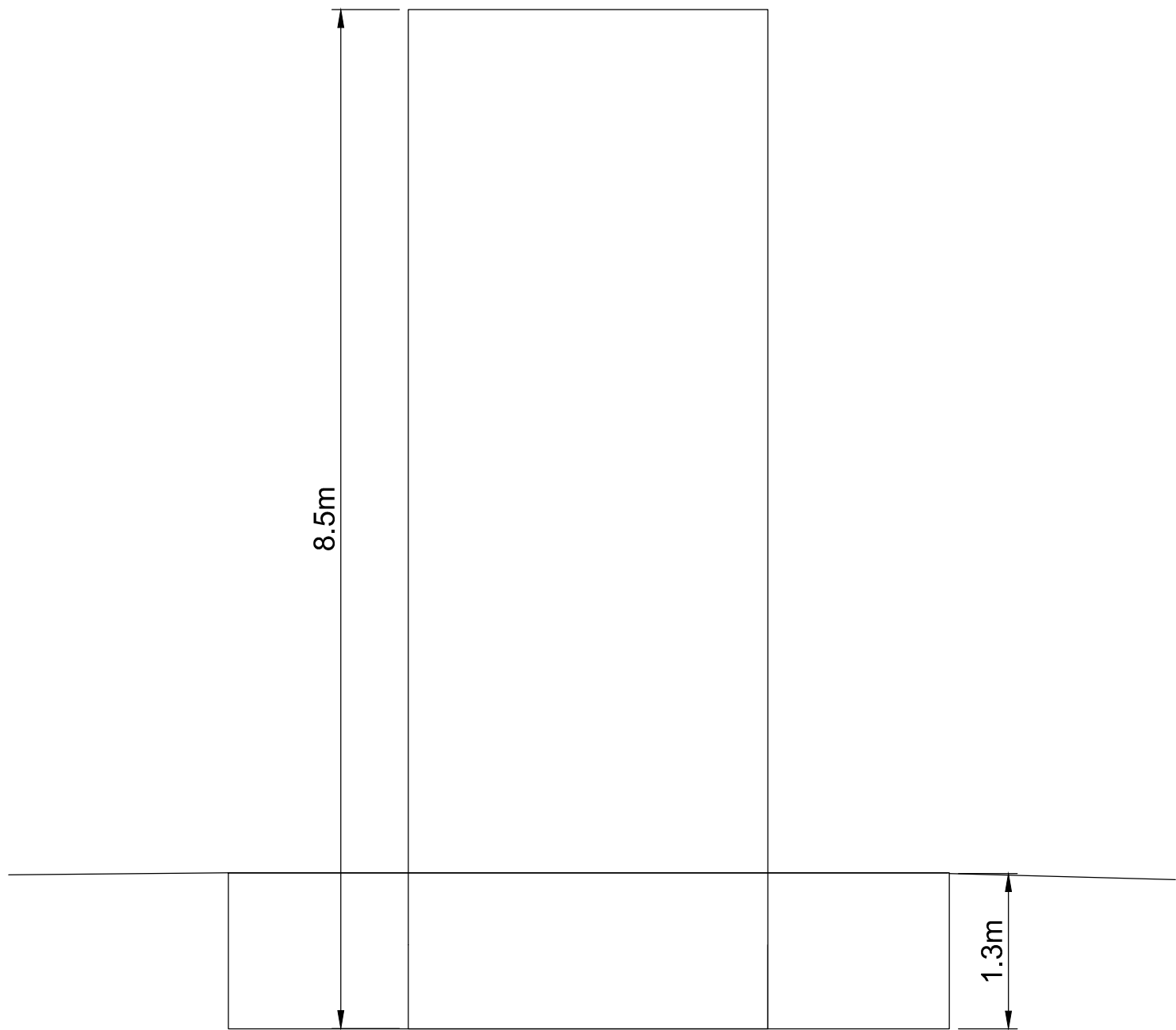
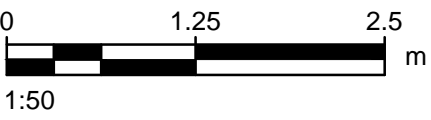
BEACH TANK SYSTEM PLAN



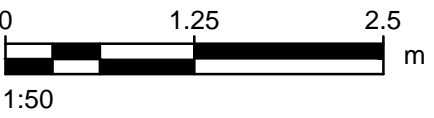
BEACH TANK SYSTEM ELEVATION



CAMP TANK PLAN



CAMP TANK ELEVATION



NOTE: BEACH TANKS  
1. STEEL TANKS (8) - 30 000L CAPACITY EACH  
2. CONTENTS - 30 000L JETA/ARCTIC DIESEL WASTE FUEL

NOTE: HELIPAD TANK  
1. STEEL TANK (1) - 30 000L CAPACITY  
2. CONTENTS - 20 000L JETA/ARCTIC DIESEL WASTE FUEL  
3. TANK CONSTRUCTION SAME AS BEACH TANKS

NOTE: CAMP TANK  
1. STEEL TANK (1) - 60 000L CAPACITY  
2. CONTENTS - 20 000L JETA/ARCTIC DIESEL WASTE FUEL

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- TANKS ARE TO BE PERMANENTLY WITHDRAWN FROM SERVICE IN ACCORDANCE WITH THE STORAGE TANK SYSTEMS FOR PETROLEUM AND ALLIED PETROLEUM PRODUCTS REGULATIONS (SOR / 2008-197).
- STANDING WATER IS PRESENT WITHIN CAMP TANK CONTAINMENT.

Professional Seals / Sceaux

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PUBLIC WORKS  
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CANADA

Project title/Titre du projet

BAF-5  
REMEDATION PROJECT

Approved by/Approuvé par

R. MERKOSKY

Designed by/Concept par

R. STUDER-HALBACH

Drawn by/Dessiné par

C. EROS

PWSSC Project Manager/Administrateur de Projets TPSSC

C. MOORE

PWSSC Architectural and Engineering Resources Manager/  
Ressources Architectural et de Directeur d'ingénierie, TPSSC

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FUEL TANKS  
PLANS AND ELEVATIONS

Project No./No. du projet

R.064676

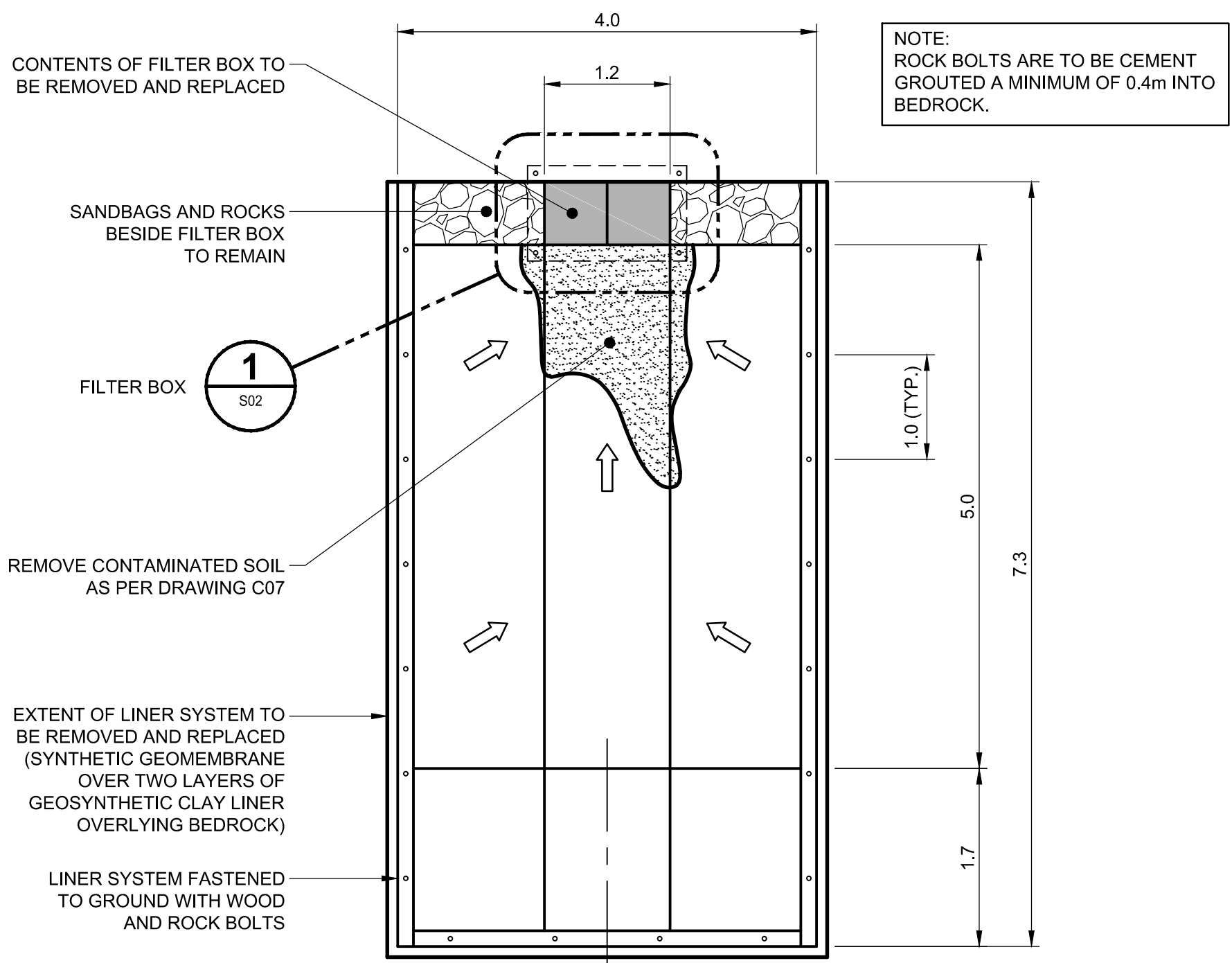
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S01  
OF 2

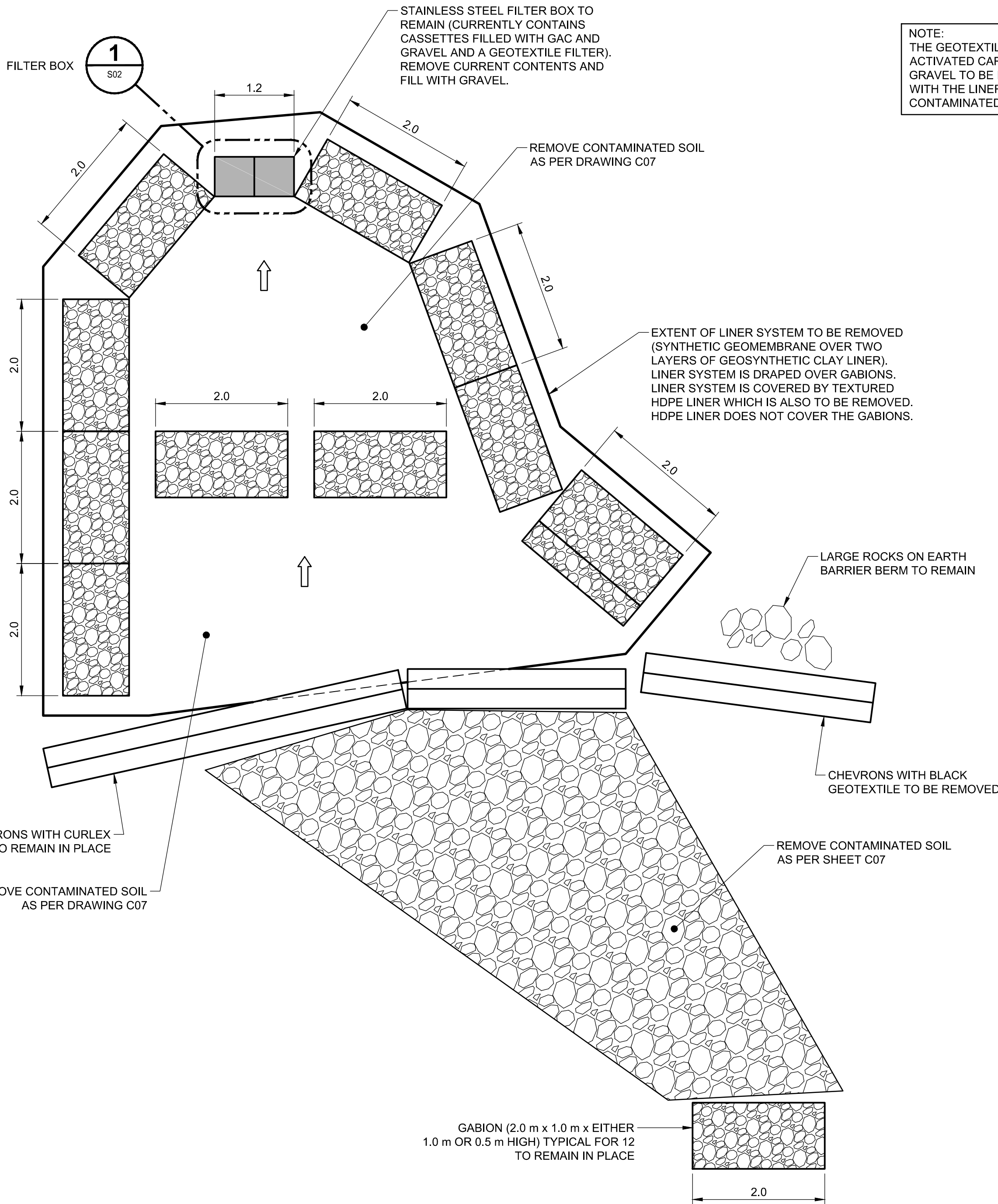
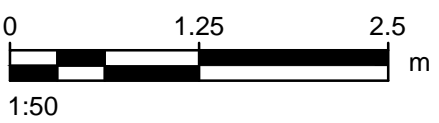
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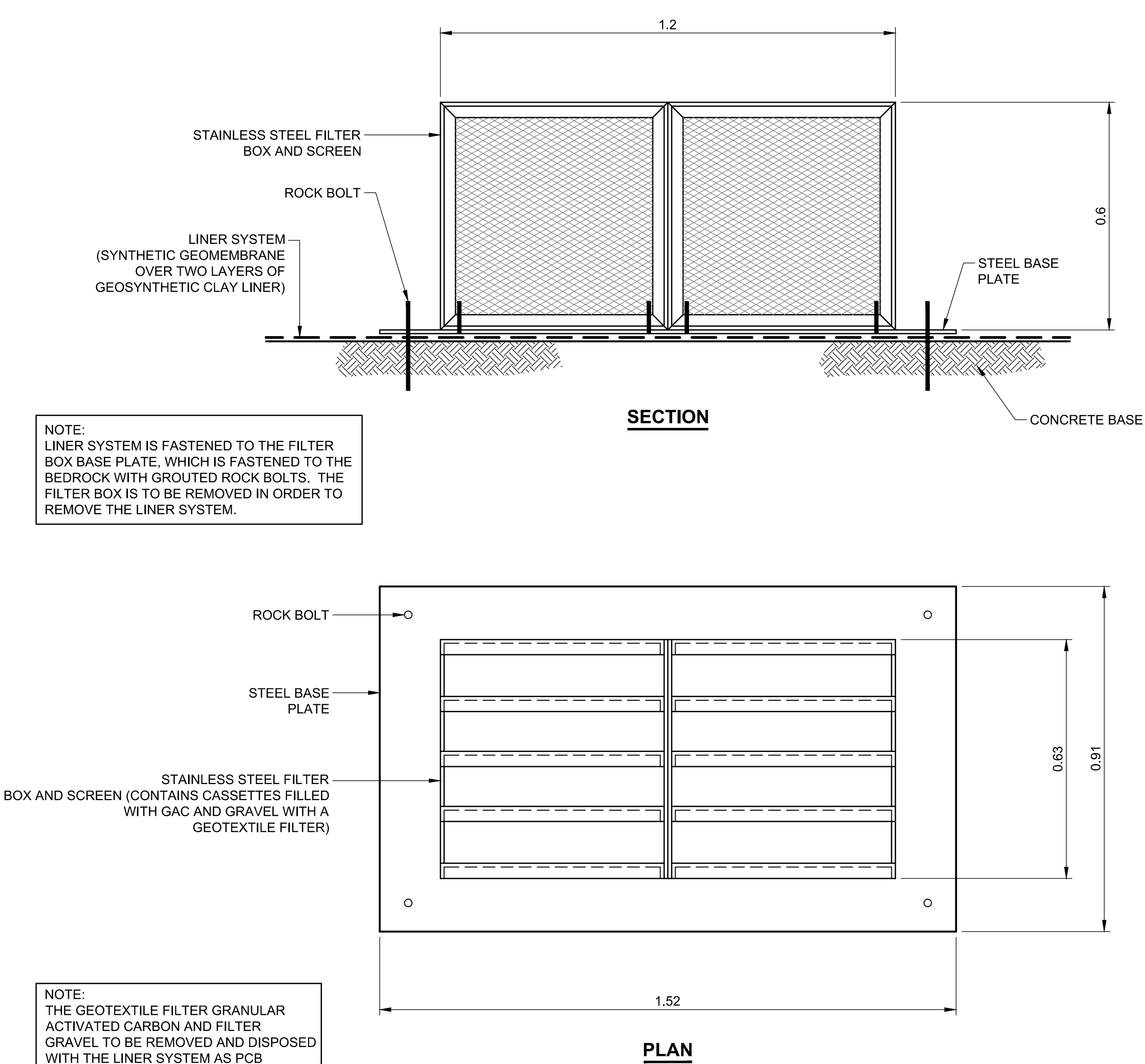
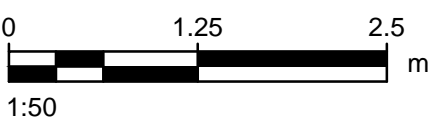




PLAN - FURNITURE DUMP PERMEABLE REACTIVE BARRIER

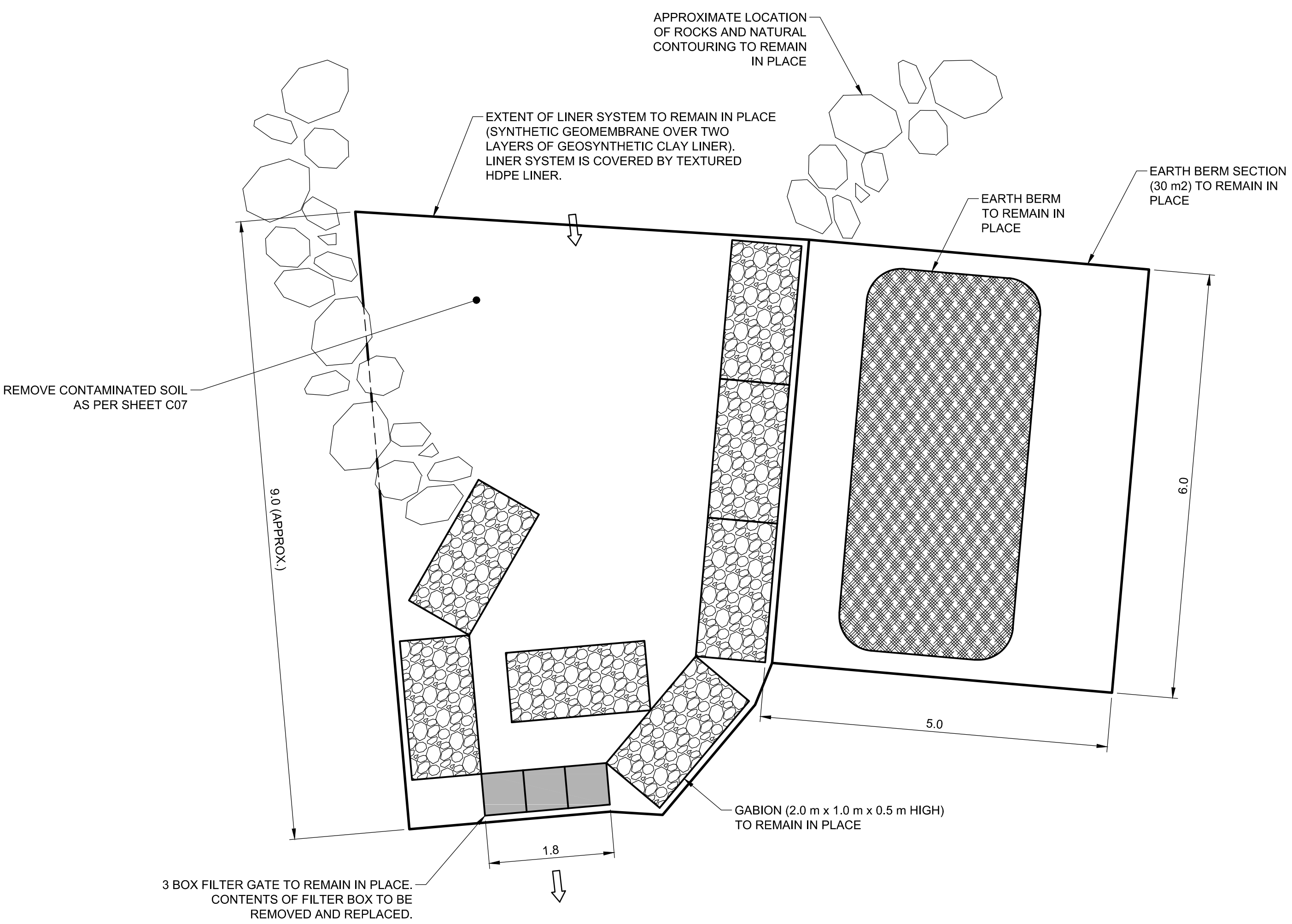
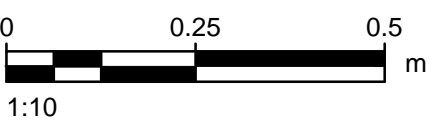


PLAN - S1/S4 VALLEY PERMEABLE REACTIVE BARRIER

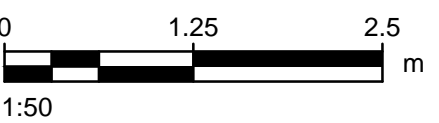


PLAN

1 | DETAIL - FILTER BOX



PLAN - S1/S4 BEACH PERMEABLE REACTIVE BARRIER



PERMEABLE REACTIVE BARRIER MATERIAL REQUIREMENTS		
AREA NAME	MATERIAL *	QUANTITY
FURNITURE DUMP PRB	GEOSYNTHETIC CLAY LINER	70 m2 ***
	REINFORCED GEOMEMBRANE	40 m2 ***
	LUMBER (2 x 4)	25 m
	ROCK BOLTS	20
	SILICA GRAVEL	0.3 m3
S1/S4 VALLEY PRB	GRANULAR ACTIVATED CARBON	0.3 m3
	SILICA GRAVEL	0.6 m3
S1/S4 BEACH PRB	SILICA GRAVEL	0.1 m3
	GRANULAR ACTIVATED CARBON	0.2 m3
FUTURE MAINTENANCE MATERIALS (S1/S4 BEACH PRB)	SILICA GRAVEL	0.2 m3
	GRANULAR ACTIVATED CARBON	0.3 m3
	HAZARDOUS SOIL CONTAINERS	10 m3 **

\* MATERIALS TO CONFORM WITH SPECIFICATIONS

\*\* HAZARDOUS SOIL CONTAINERS ARE TO HAVE A COMBINED FUNCTIONAL STORAGE VOLUME OF 10 m3.

\*\*\* SURFACE AREA INSTALLED.

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LEGEND:

← DIRECTION OF DRAINAGE

Professional Seals / Sceaux

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PERMEABLE REACTIVE BARRIER  
DETAILS

Project No./No. du projet

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Sheet/Feuille

S02

OF 2

Revision no./

La Révision no.

B