National Defence / Défense nationale

DEW LINE CLEAN UP PROJECT

NOTE:
THIS DRAWING PACKAGE HAS BEEN REVISED BASED ON INFORMATION SUPPLIED BY DEFENCE CONSTRUCTION CANADA IN 2006 AND 2011.

DRAWING INDEX

DRAWING No.	TITLE	DRAWING No.	TITLE	DRAWING No.	TITLE
SITING		SITING		STRUCTURAL	
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H-B233/1-9101-102	PROJECT LAYOUT SHEET 1	H-B233/1-9101-115	MAIN LANDFILL CROSS SECTION SHEET 3	H-B233/1-9101-202	BEACH AREA AND HEATED VEHICLE STORAGE AREA DEMOLITION SITE PLANS
H-B233/1-9101-102A	PROJECT LAYOUT SHEET 2	H-B233/1-9101-116	TIER II DISPOSAL FACILITY KEY TRENCH EXCAVATION PLAN & GRADING/INSTRUMENTATION PLAN	~~H-B233/1-9101-203~~	~~WAREHOUSE PLAN AND SECTION~~
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~~H-B233/1-9101-109~~	~~STATION AREA LANDFARM PLAN AND CROSS SECTION~~	~~H-B233/1-9101-123~~	~~CONTAMINATED AREAS SECTION AND DETAILS SHEET 4~~	~~H-B233/1-9101-212~~	~~FUEL AND WATER TANKS PLAN AND ELEVATIONS~~
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H-B233/1-9101-110	MAIN LANDFILL GRADING/INSTRUMENTATION PLAN	H-B233/1-9101-125	MISCELLANEOUS DETAILS SHEET 2		
H-B233/1-9101-111	MAIN LANDFILL KEY TRENCH EXCAVATION PLAN	~~H-B233/1-9101-126~~	~~MISCELLANEOUS DETAILS SHEET 3~~		
~~H-B233/1-9101-112~~	~~MAIN LANDFILL KEY TRENCH CENTRELINE PROFILE~~	~~H-B233/1-9101-127~~	~~FOX-4 CAPE HOOPER CONTAINER STORAGE AREA~~		
H-B233/1-9101-113	MAIN LANDFILL CROSS SECTION SHEET 1	~~H-B233/1-9101-128~~	~~DYE-M CAPE DYER CONTAINER STORAGE AREA~~		

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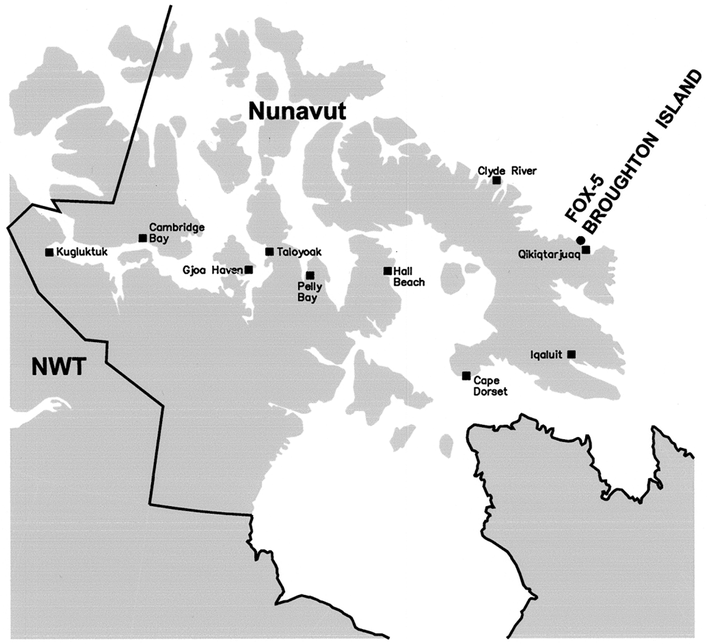


FOX-5 BROUGHTON ISLAND AS-BUILT DRAWINGS

AECOM

HATCH™

MARCH, 2013



LOCATION OF BROUGHTON ISLAND WITHIN NUNAVUT TERRITORY

SCALE: NTS



National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL NON-HAZARDOUS DEBRIS REMOVED WITHIN THE PLAN AREA FROM STATION AREA SOURCES WAS PLACED IN THE STATION AREA NON-HAZARDOUS WASTE LANDFILL.
2. ALL NON-HAZARDOUS DEBRIS REMOVED WITHIN THE PLAN AREA FROM SOURCES TO THE WEST OF AND ALONG THE WATER SUPPLY LAKE ACCESS ROAD WAS PLACED IN THE MIDDLE SITE NON-HAZARDOUS WASTE LANDFILL.

Legend:

- APPROXIMATE LOCATION OF PROPERTY BOUNDARY
- APPROXIMATE EXTENT OF BORROW AREA
- BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.
2	13-03-25	AS-BUILT DRAWING		RRM
1	08-01-31	AS-BUILT DRAWING		BWF

NWT PROFESSIONAL ENGINEERS LICENSEE
Mar 25/13

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Signature
Date MAR 25/13
PERMIT NUMBER: P639
NWT/NU Association of Professional Engineers and Geoscientists

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SCALE – ECHELLE 400 200 0 400 800 1200m

PROJECT – PROJET
FOX-5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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TRADE – METIER	DATE
SITING	2003-03-31

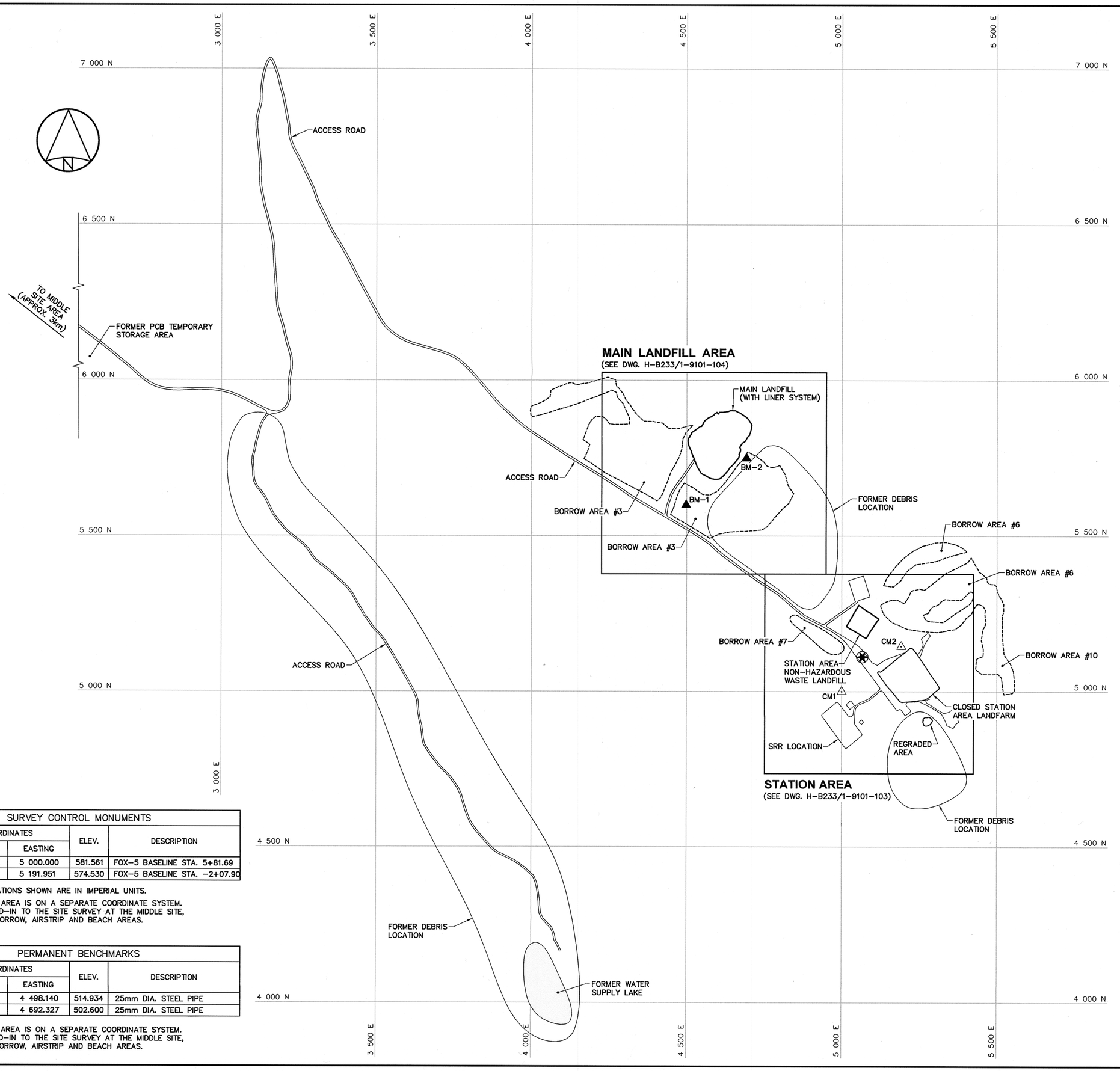
SUBJECT – SUJET

OVERALL SITE PLAN

PRODUCTION		CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H-B233/1-9101-101

Canada



SURVEY CONTROL MONUMENTS				
NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
CM1	5 000.000	5 000.000	581.561	FOX-5 BASELINE STA. 5+81.69
CM2	5 145.012	5 191.951	574.530	FOX-5 BASELINE STA. -2+07.90

NOTE: BASELINE STATIONS SHOWN ARE IN IMPERIAL UNITS.

THE STATION AREA IS ON A SEPARATE COORDINATE SYSTEM. IT IS NOT TIED-IN TO THE SITE SURVEY AT THE MIDDLE SITE, COMMUNITY BORROW, AIRSTRIP AND BEACH AREAS.

PERMANENT BENCHMARKS				
NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
BM-1	5 599.643	4 498.140	514.934	25mm DIA. STEEL PIPE
BM-2	5 749.976	4 692.327	502.600	25mm DIA. STEEL PIPE

NOTE: THE STATION AREA IS ON A SEPARATE COORDINATE SYSTEM. IT IS NOT TIED-IN TO THE SITE SURVEY AT THE MIDDLE SITE, COMMUNITY BORROW, AIRSTRIP AND BEACH AREAS.

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. ALL SHORT RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL AND WERE NOT TO BE DISTURBED.
5. FOR PERMANENT SURVEY CONTROL (BENCHMARK) INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.

Legend:

- CM1 — SURVEY CONTROL MONUMENT
- BM-1 — PERMANENT BENCHMARK LOCATION (2)
- APPROXIMATE LOCATION OF COMMEMORATIVE PLAQUE
- BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.
2	13-03-25	AS-BUILT DRAWING		RRM
1	08-01-31	AS-BUILT DRAWING		BWF

APEGGN PROFESSIONAL ENGINEERS GEOSCIENTISTS NWT/NU
Mar25/13

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SCALE - ECHELLE 100 50 0 100 200 300m

PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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TRADE - METIER	DATE
SITING	2003-03-31

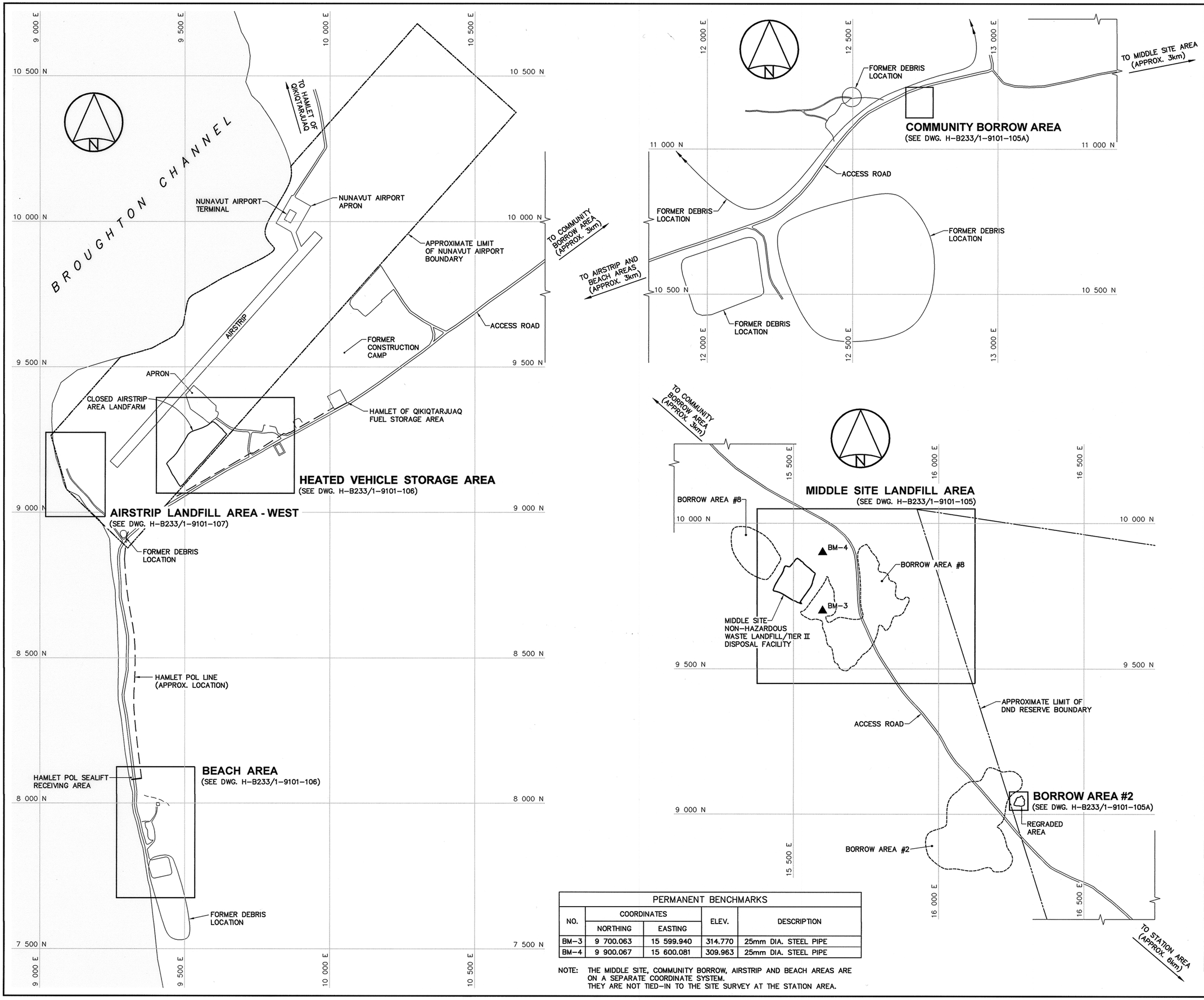
SUBJECT - SUJET

PROJECT LAYOUT
SHEET 1

PRODUCTION	CONCURRENCE - ASSENTIMENT	
DESIGNED / ETUDIE BWF		DES OFF / AGENT CONCEPT
DRAWN / DESSINE CAE		SECT HD / CHEF SECT
CHECKED / VERIFIE RRM		DES MGR / GEST CONCEPT
COORDINATION SMS	REVIEWED - REVU	

DWG. NO. - DESSIN NO.
H-B233/1-9101-102

Canada



PERMANENT BENCHMARKS				
NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
BM-3	9 700.063	15 599.940	314.770	25mm DIA. STEEL PIPE
BM-4	9 900.067	15 600.081	309.963	25mm DIA. STEEL PIPE

NOTE: THE MIDDLE SITE, COMMUNITY BORROW, AIRSTRIP AND BEACH AREAS ARE ON A SEPARATE COORDINATE SYSTEM. THEY ARE NOT TIED-IN TO THE SITE SURVEY AT THE STATION AREA.

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. FOR PERMANENT SURVEY CONTROL (BENCHMARK) INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.

Legend:

- ▲BM-3 PERMANENT BENCHMARK LOCATION (2)
- APPROXIMATE LOCATION OF PROPERTY BOUNDARY
- BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.
0	13-03-25	AS-BUILT DRAWING		RRM

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SCALE - ECHELLE 100 50 0 100 200 300m

PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

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TRADE - METIER	DATE
SITING	2012-03-08

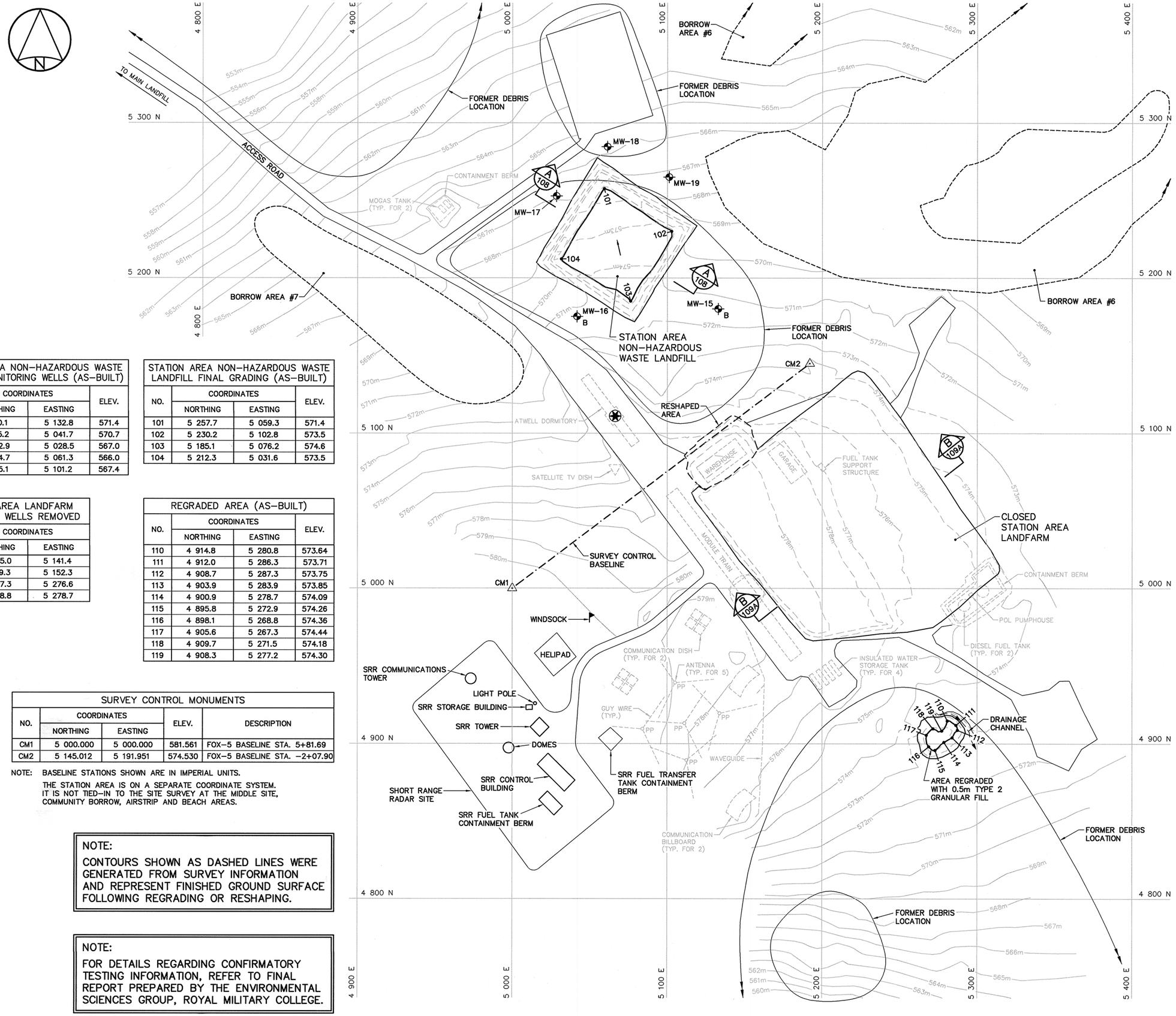
SUBJECT - SUJET

PROJECT LAYOUT
SHEET 2

PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	IC		SECT HD CHEF SECT
CHECKED VERIFIE	DTM		DES MGR GEST CONCEPT
COORDINATION	RRM	REVIEWED - REVU	

DWG. NO. - DESSIN NO.
H-B233/1-9101-102A

Canada



STATION AREA NON-HAZARDOUS WASTE LANDFILL MONITORING WELLS (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
MW-15	5 180.1	5 132.8	571.4
MW-16	5 175.2	5 041.7	570.7
MW-17	5 252.9	5 028.5	567.0
MW-18	5 284.7	5 061.3	566.0
MW-19	5 265.1	5 101.2	567.4

STATION AREA NON-HAZARDOUS WASTE LANDFILL FINAL GRADING (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
101	5 257.7	5 059.3	571.4
102	5 230.2	5 102.8	573.5
103	5 185.1	5 076.2	574.6
104	5 212.3	5 031.6	573.5

STATION AREA LANDFARM MONITORING WELLS REMOVED		
NO.	COORDINATES	
	NORTHING	EASTING
MW-20	5 025.0	5 141.4
MW-21	5 129.3	5 152.3
MW-22	5 087.3	5 276.6
MW-23	4 968.8	5 278.7

REGRADED AREA (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
110	4 914.8	5 280.8	573.64
111	4 912.0	5 286.3	573.71
112	4 908.7	5 287.3	573.75
113	4 903.9	5 283.9	573.85
114	4 900.9	5 278.7	574.09
115	4 895.8	5 272.9	574.26
116	4 898.1	5 268.8	574.36
117	4 905.6	5 267.3	574.44
118	4 909.7	5 271.5	574.18
119	4 908.3	5 277.2	574.30

SURVEY CONTROL MONUMENTS				
NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
CM1	5 000.000	5 000.000	581.561	FOX-5 BASELINE STA. 5+81.69
CM2	5 145.012	5 191.951	574.530	FOX-5 BASELINE STA. -2+07.90

NOTE: BASELINE STATIONS SHOWN ARE IN IMPERIAL UNITS.
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NOTE:
CONTOURS SHOWN AS DASHED LINES WERE GENERATED FROM SURVEY INFORMATION AND REPRESENT FINISHED GROUND SURFACE FOLLOWING REGRADING OR RESHAPING.

NOTE:
FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

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3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. ALL SHORT RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL AND WERE NOT TO BE DISTURBED.
5. FOR MONITORING WELL INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.

Legend:

- CM1 — SURVEY CONTROL MONUMENT
- 101 — COORDINATE POINT
- APPROXIMATE LOCATION OF COMMEMORATIVE PLAQUE
- MW-17 — MONITORING WELL LOCATION (3)
- MW-15 B — BACKGROUND MONITORING WELL LOCATION (2)
- PP — FORMER UTILITY POLE
- FORMER BUILDING, STRUCTURE OR TANK LOCATION

No.	DATE	REVISION	REVISION	APPR.
2	13-03-25	AS-BUILT DRAWING		RRM
1	08-01-31	AS-BUILT DRAWING		BWF

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SCALE - ECHELLE 20 10 0 20 40 60m

PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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DATE: 2003-03-31

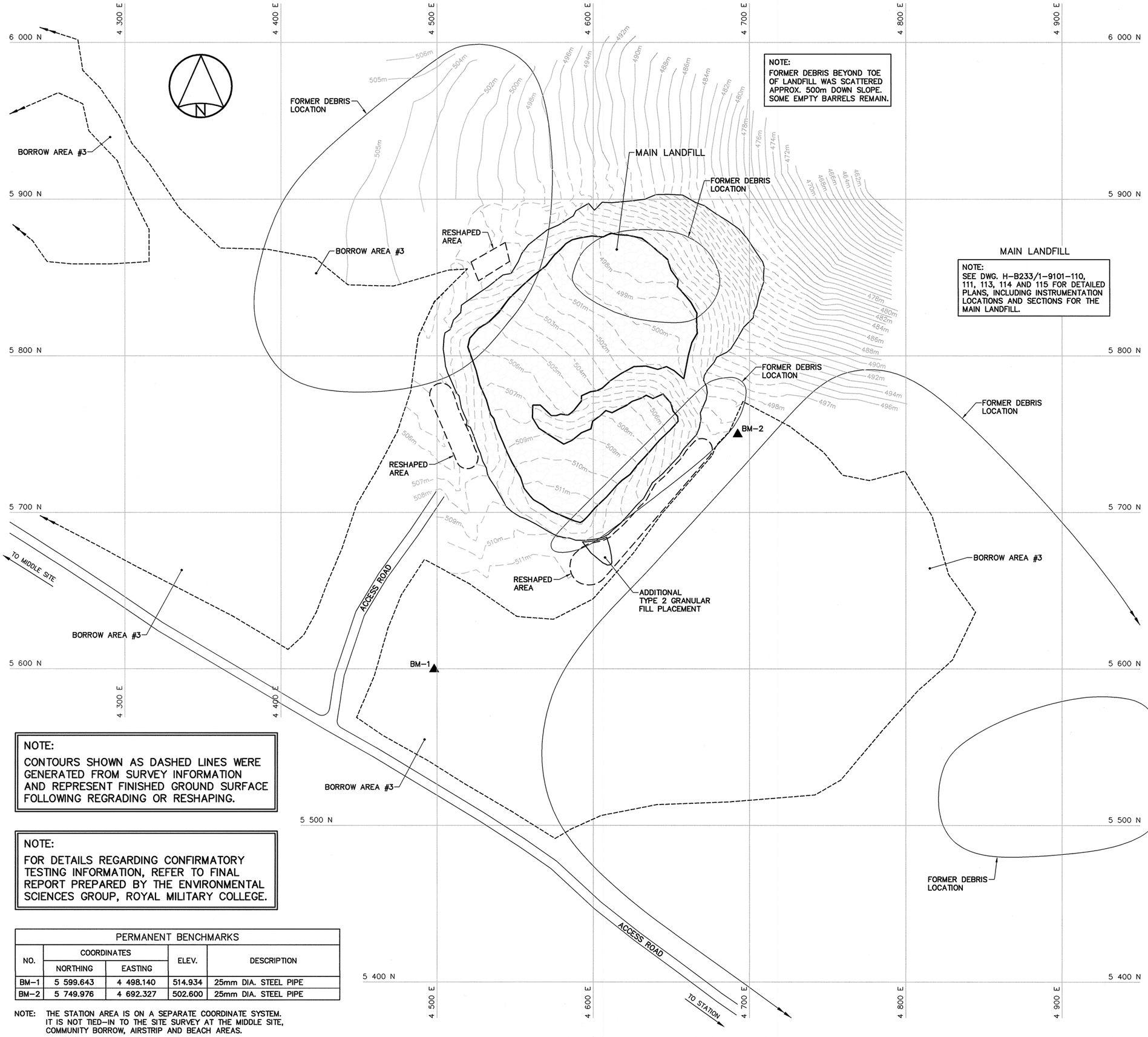
SUBJECT - SUJET

STATION AREA
SITE PLAN

PRODUCTION	CONCURRENCE - ASSENTIMENT
DESIGNED / ETUDIE: BWF	DES OFF / AGENT CONCEPT
DRAWN / DESSINE: CAE	SECT HD / CHEF SECT
CHECKED / VERIFIE: RRM	DES MGR / GEST CONCEPT
COORDINATION: SMS	REVIEWED - REVU

DWG. NO. - DESSIN NO.
H-B233/1-9101-103

Canada



NOTE:
CONTOURS SHOWN AS DASHED LINES WERE GENERATED FROM SURVEY INFORMATION AND REPRESENT FINISHED GROUND SURFACE FOLLOWING REGRADING OR RESHAPING.

NOTE:
FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

PERMANENT BENCHMARKS

NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
BM-1	5 599.643	4 498.140	514.934	25mm DIA. STEEL PIPE
BM-2	5 749.976	4 692.327	502.600	25mm DIA. STEEL PIPE

NOTE: THE STATION AREA IS ON A SEPARATE COORDINATE SYSTEM. IT IS NOT TIED-IN TO THE SITE SURVEY AT THE MIDDLE SITE, COMMUNITY BORROW, AIRSTRIP AND BEACH AREAS.

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

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2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. FOR PERMANENT SURVEY CONTROL (BENCHMARK) INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.

Legend:

▲BM-1 PERMANENT BENCHMARK LOCATION (2)

No.	DATE	REVISION	REVISION	APPR.
2	13-03-25	AS-BUILT DRAWING		RRM
1	08-01-31	AS-BUILT DRAWING		BWF

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PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

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TRADE - METIER: SITING
DATE: 2003-03-31

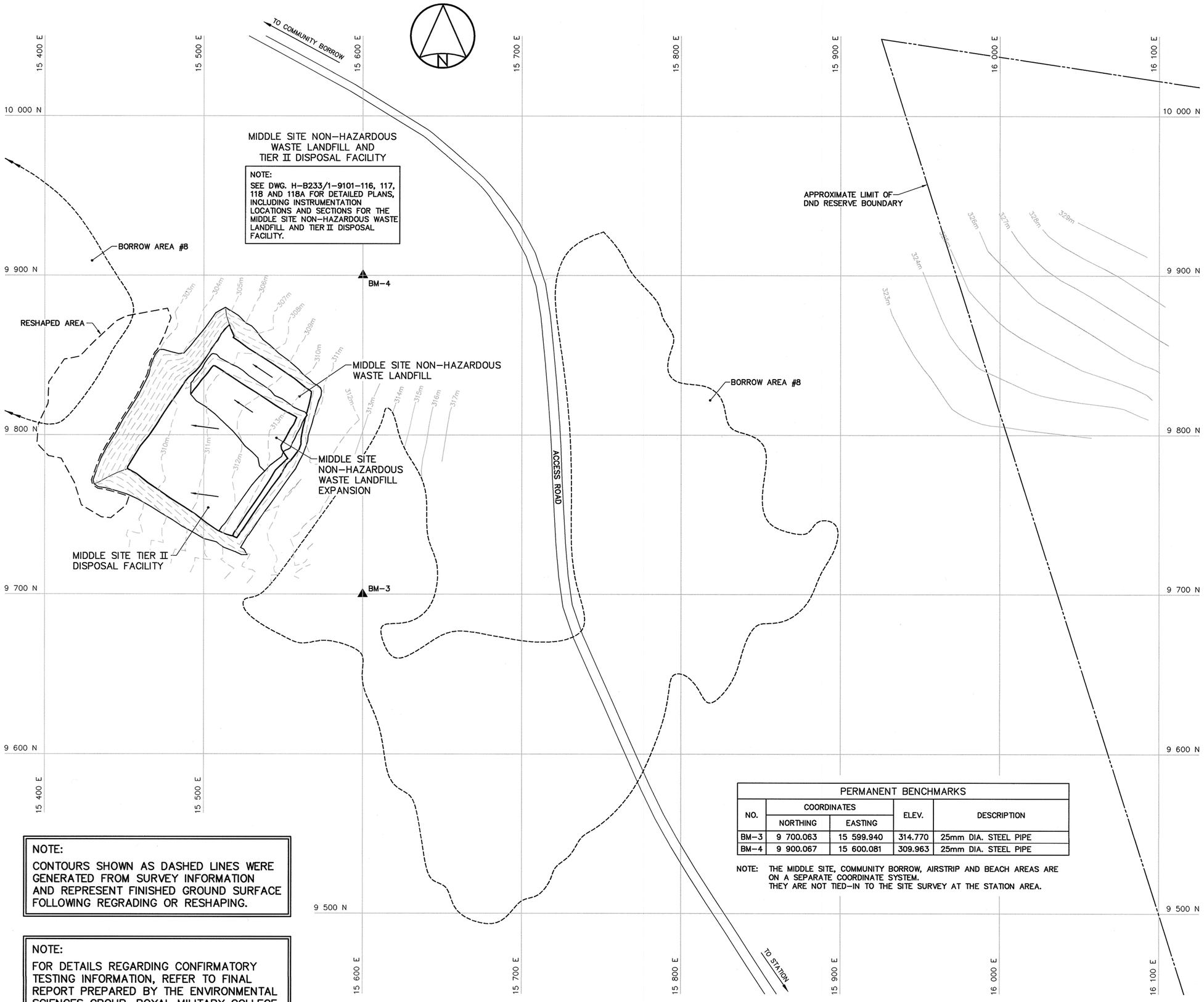
SUBJECT - SUJET

MAIN LANDFILL AREA
SITE PLAN

PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED - REVU	

DWG. NO. - DESSIN NO.
H-B233/1-9101-104

Canada



PERMANENT BENCHMARKS				
NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
BM–3	9 700.063	15 599.940	314.770	25mm DIA. STEEL PIPE
BM–4	9 900.067	15 600.081	309.963	25mm DIA. STEEL PIPE

NOTE: THE MIDDLE SITE, COMMUNITY BORROW, AIRSTRIP AND BEACH AREAS ARE ON A SEPARATE COORDINATE SYSTEM. THEY ARE NOT TIED–IN TO THE SITE SURVEY AT THE STATION AREA.

NOTE:
CONTOURS SHOWN AS DASHED LINES WERE GENERATED FROM SURVEY INFORMATION AND REPRESENT FINISHED GROUND SURFACE FOLLOWING REGRADING OR RESHAPING.

NOTE:
FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. FOR PERMANENT SURVEY CONTROL (BENCHMARK) INSTALLATION DETAIL, SEE DWG. H–B233/1–9101–125.

Legend:

▲BM–3 PERMANENT BENCHMARK LOCATION (2)

No.	DATE	REVISION	REVISION	APPR.
2	13–03–25	AS–BUILT DRAWING		RRM
1	08–01–31	AS–BUILT DRAWING		BWF

NORTHWEST TERRITORIES AND NUNAVUT ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS
Mar 25/13

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Date
PERMIT NUMBER: P639
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AECOM HATCH

SCALE – ECHELLE 20 10 0 20 40 60m

PROJECT – PROJET
FOX–5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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TRADE – METIER: SITING
DATE: 2003–03–31

SUBJECT – SUJET

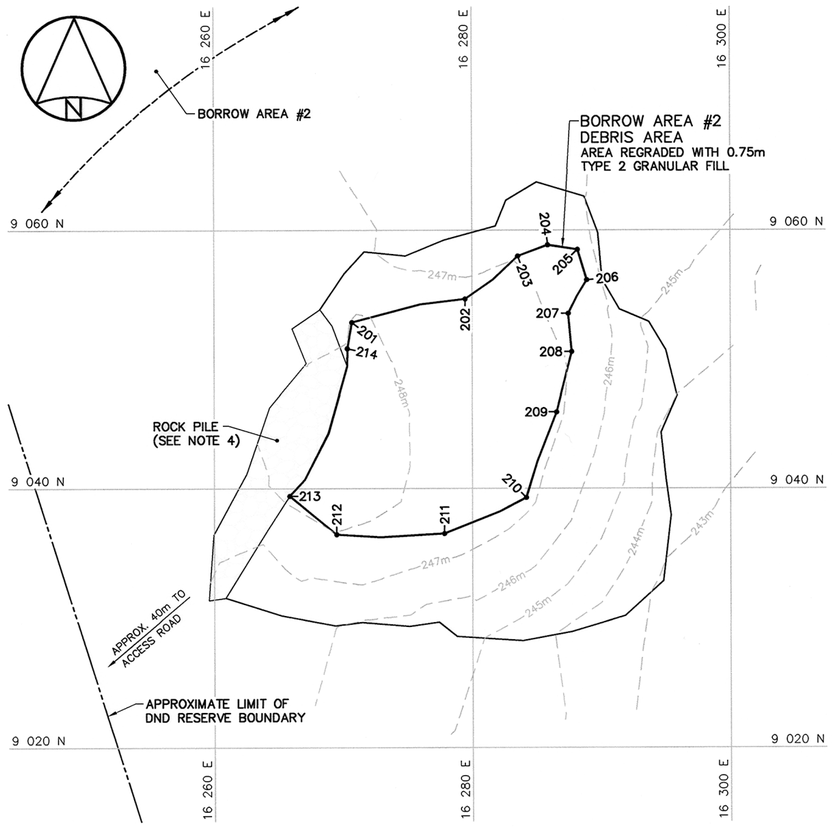
MIDDLE SITE LANDFILL AREA
SITE PLAN

PRODUCTION		CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED – REVU	

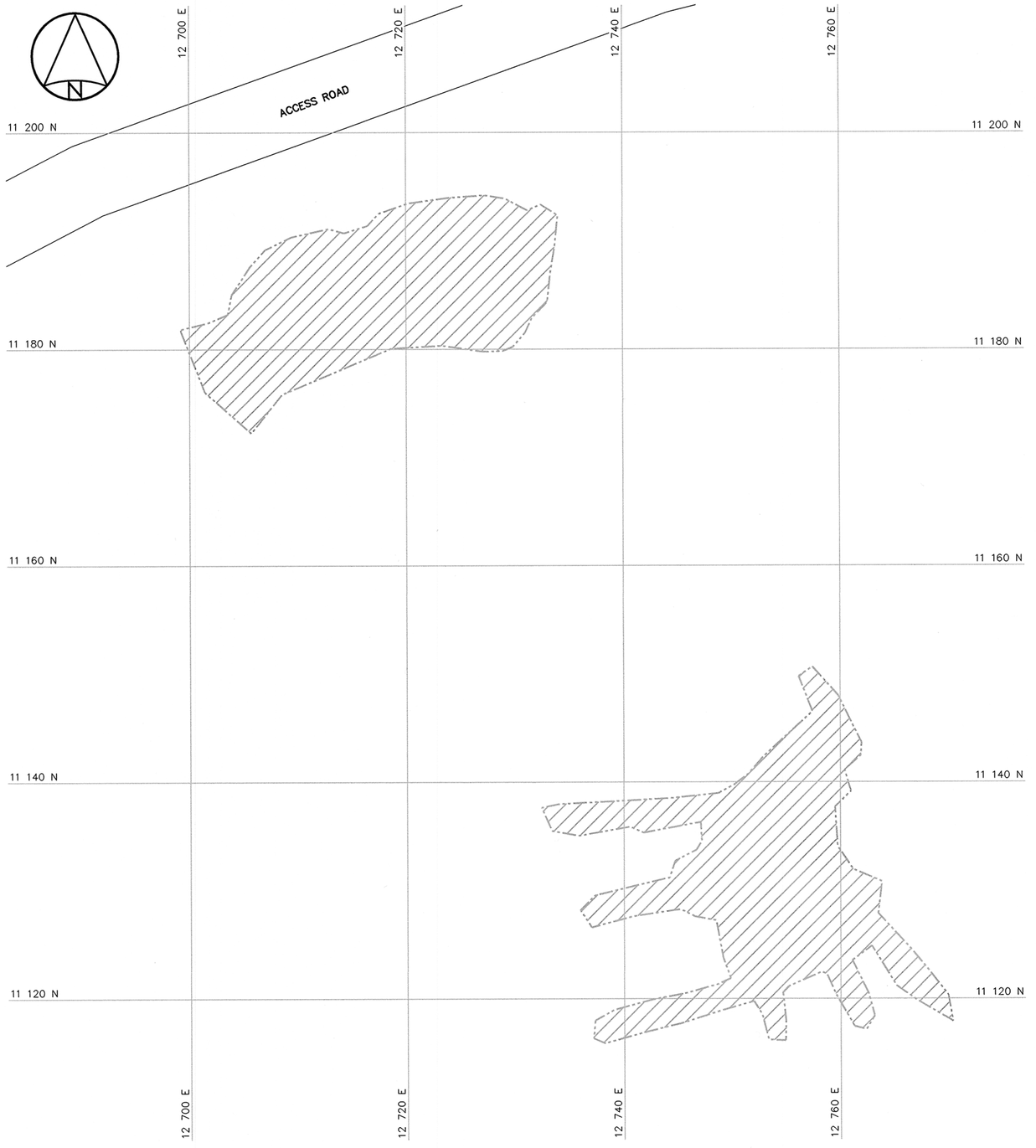
DWG. NO. – DESSIN NO.
H–B233/1–9101–105

Canada

BORROW AREA #2 DEBRIS AREA REGRADED (AS–BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
201	9 052.9	16 270.7	248.1
202	9 054.7	16 279.5	247.5
203	9 058.0	16 283.6	247.0
204	9 058.9	16 285.9	246.7
205	9 058.5	16 288.2	246.4
206	9 056.2	16 288.9	246.5
207	9 053.6	16 287.5	246.8
208	9 050.6	16 287.7	246.9
209	9 045.9	16 286.5	247.2
210	9 039.3	16 284.2	247.3
211	9 036.5	16 277.8	247.5
212	9 036.5	16 269.5	248.0
213	9 039.4	16 265.8	248.2
214	9 050.9	16 270.3	248.1



BORROW AREA #2



COMMUNITY BORROW AREA

NOTE:
CONTOURS SHOWN AS DASHED LINES WERE GENERATED FROM SURVEY INFORMATION AND REPRESENT FINISHED GROUND SURFACE FOLLOWING REGRADING OR RESHAPING.

NOTE:
FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. ROCK PILE RELOCATED TO FACILITATE GRANULAR FILL PLACEMENT.

Legend:

201 COORDINATE POINT

COMPLETED LANDFILL OR BURIED DEBRIS EXCAVATION

No.	DATE	REVISION	APPR.
2	13-03-25	AS–BUILT DRAWING	RRM
1	08-01-31	AS–BUILT DRAWING	BWF

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AECOM Canada Ltd.
Signature
Date Mar 25/13
PERMIT NUMBER: P639
NWT/NU Association of Professional Engineers and Geoscientists

Mar 25/13

AECOM HATCH

SCALE – ECHELLE 4 2 0 4 8 12m

PROJECT – PROJET
FOX–5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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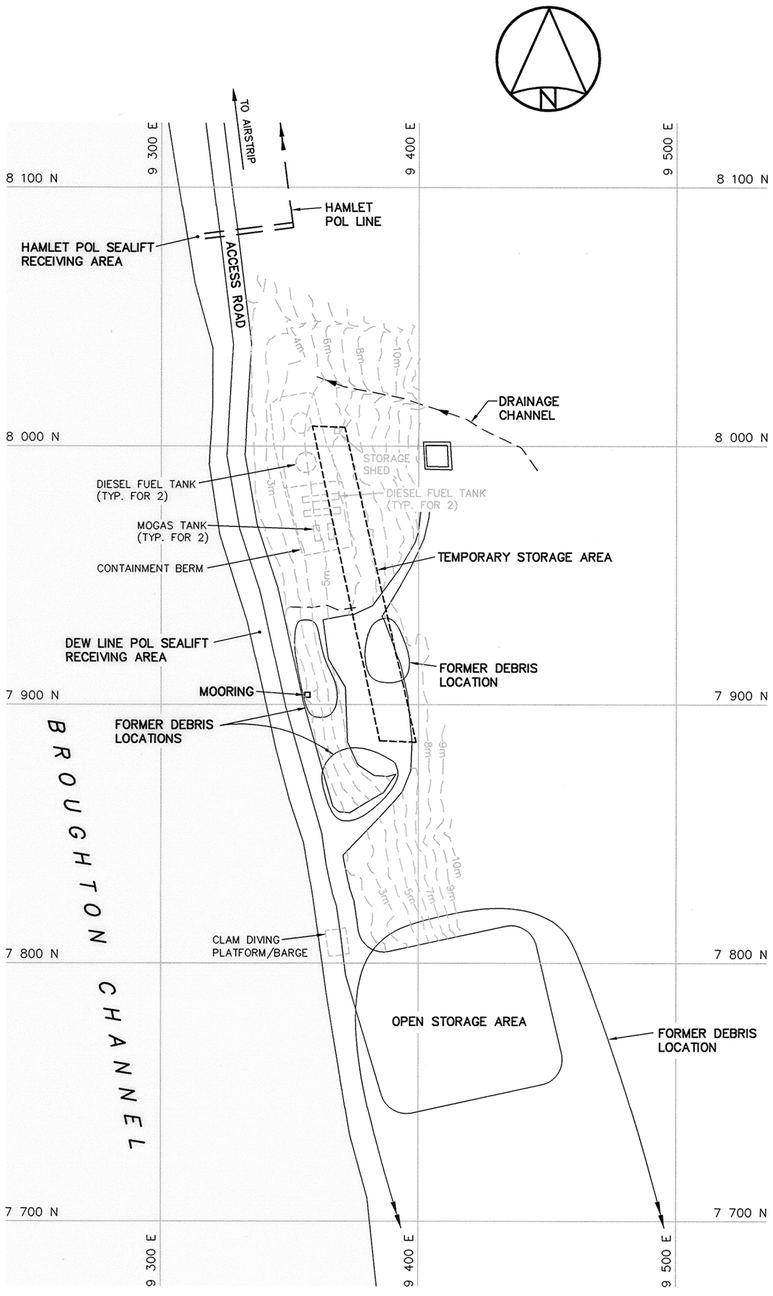
TRADE – METIER: SITING
DATE: 2005–12–02

SUBJECT – SUJET
BORROW AREA #2 AND COMMUNITY BORROW AREA SITE PLANS

PRODUCTION		CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H–B233/1–9101–105A

Canada

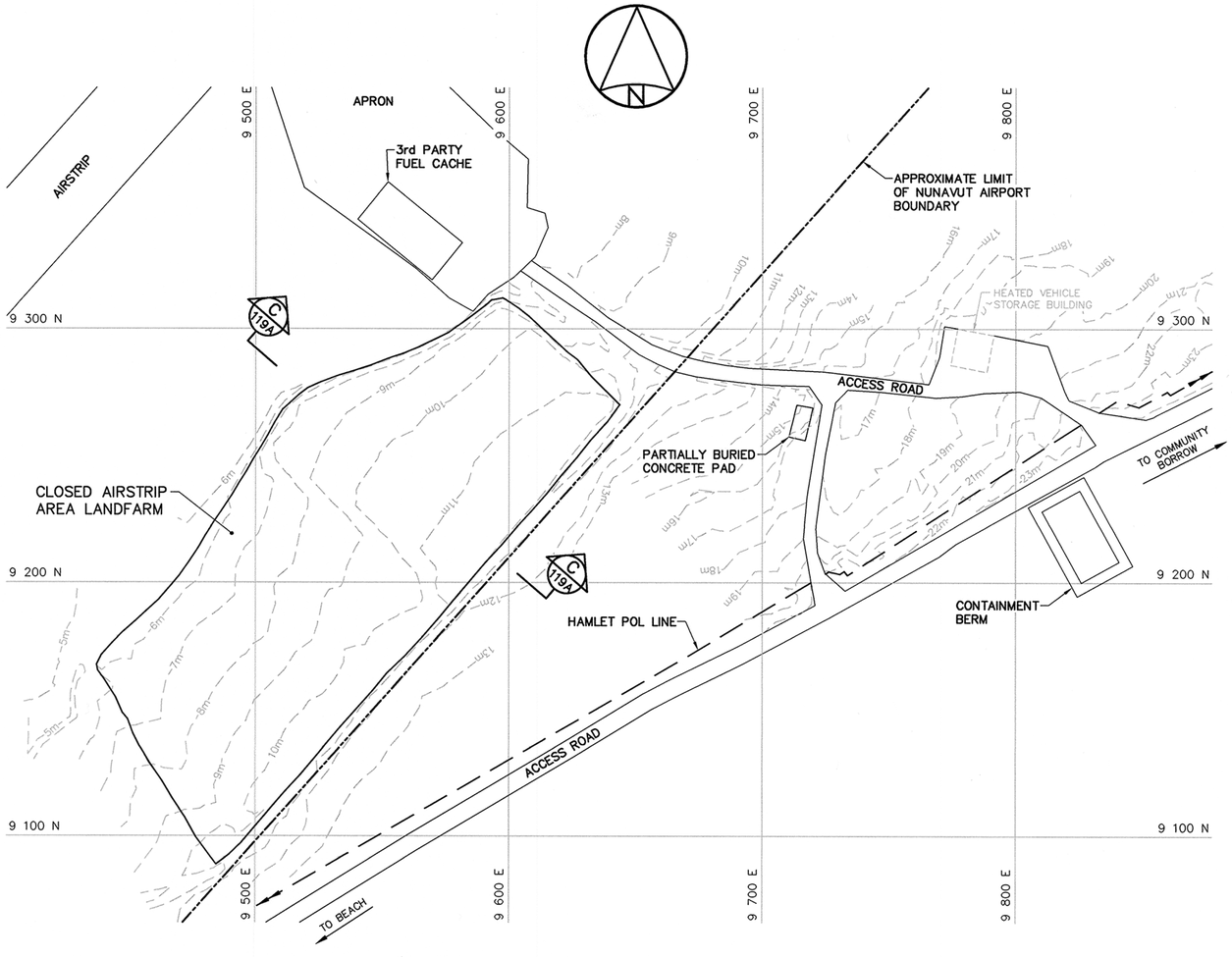


BEACH AREA

NOTE:
FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

NOTE:
CONTOURS SHOWN AS DASHED LINES WERE GENERATED FROM SURVEY INFORMATION AND REPRESENT FINISHED GROUND SURFACE FOLLOWING REGRADING OR RESHAPING.

AIRSTRIP AREA LANDFARM MONITORING WELLS REMOVED		
NO.	COORDINATES	
	NORTHING	EASTING
MW–1	9 150.7	9 576.9
MW–2	9 124.5	9 434.1
MW–3	9 243.5	9 479.0
MW–4	9 308.2	9 565.9



HEATED VEHICLE STORAGE AREA

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

Legend:

FORMER BUILDING, STRUCTURE OR TANK LOCATION

BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.
2	13-03-25	AS–BUILT DRAWING		RRM
1	08-01-31	AS–BUILT DRAWING		BWF

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Date 13/03/25
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NWT/NU Association of Professional Engineers and Geoscientists

Mar. 25/13

AECOM HATCH

SCALE – ECHELLE 20 10 0 20 40 60m

PROJECT – PROJET
FOX–5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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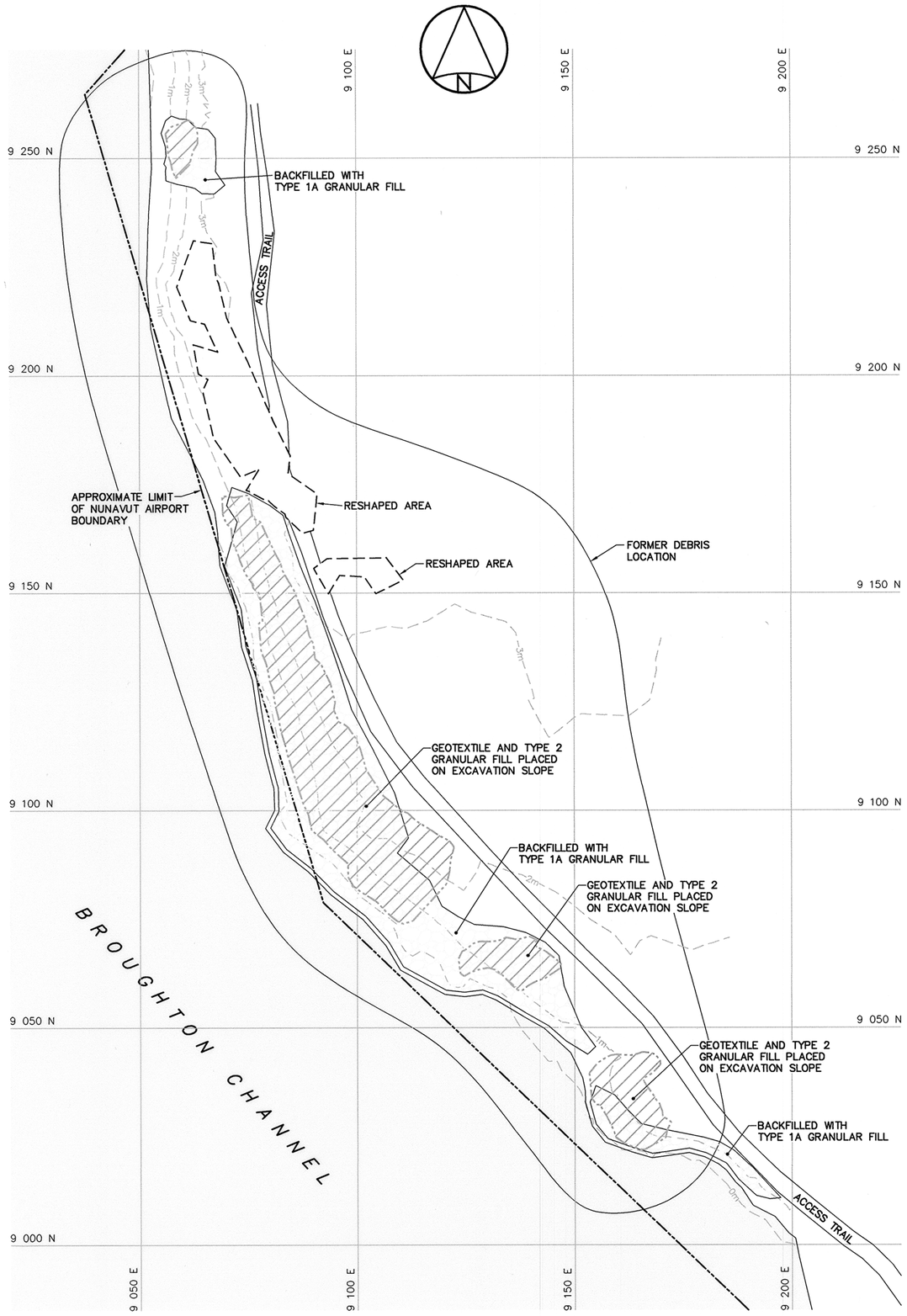
TRADE – METIER	DATE
SITING	2003–03–31

SUBJECT – SUJET
BEACH AREA AND HEATED VEHICLE STORAGE AREA SITE PLANS

PRODUCTION		CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H–B233/1–9101–106

Canada



AIRSTRIP LANDFILL AREA–WEST

0 10 20 30m
10 5

NOTE:

FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

NOTE:

CONTOURS SHOWN AS DASHED LINES WERE GENERATED FROM SURVEY INFORMATION AND REPRESENT FINISHED GROUND SURFACE FOLLOWING REGRADING OR RESHAPING.

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

Legend:

COMPLETED LANDFILL OR BURIED DEBRIS EXCAVATION

BODY OF WATER

No.	DATE	REVISION	APPR.
3	13-03-25	AS–BUILT DRAWING	RRM
2	08-01-31	AS–BUILT DRAWING	BWF
1	05-05-18	REVISED LANDFILL EXTENTS	BWF

PROFESSIONAL ENGINEER NWT/NU
Mar. 25/13

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AECOM HATCH

SCALE – ECHELLE: AS SHOWN

PROJECT – PROJET: FOX–5 BROUGHTON ISLAND

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TRADE – METIER: SITING
DATE: 2003–03–31

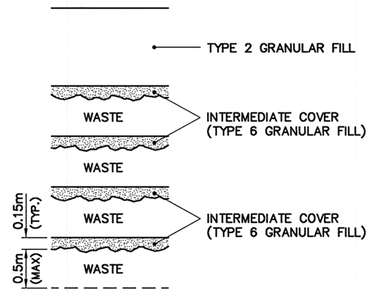
SUBJECT – SUJET

AIRSTRIP LANDFILL AREA–WEST
SITE PLAN AND CROSS SECTIONS

PRODUCTION		CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED – REVU	

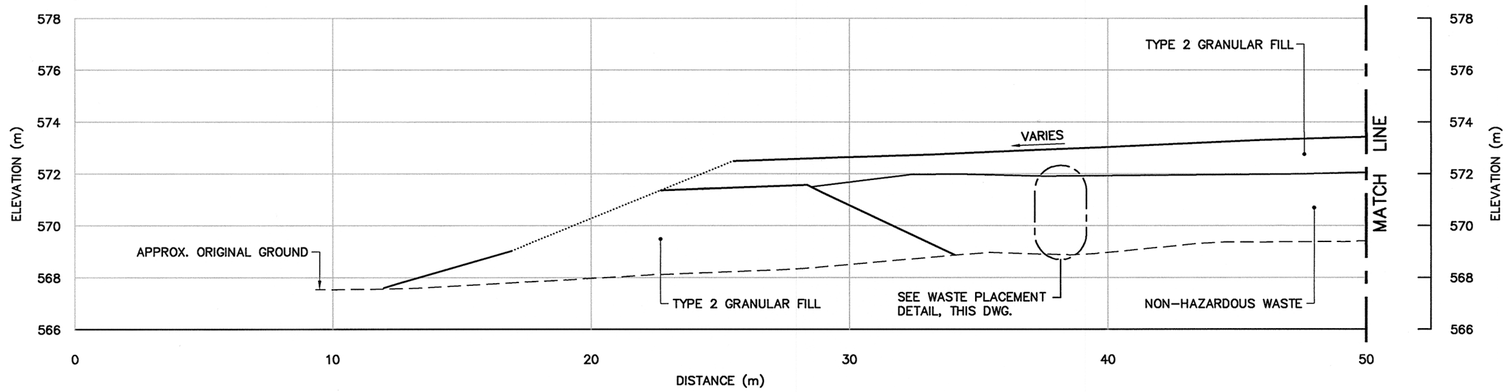
DWG. NO. – DESSIN NO.
H–B233/1–9101–107

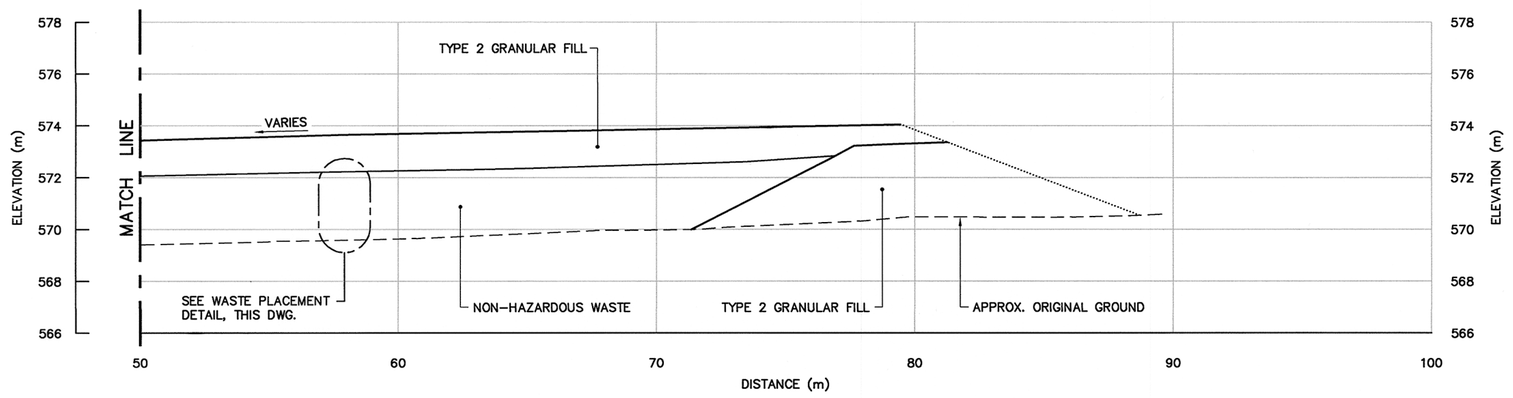
Canada



WASTE PLACEMENT DETAIL

SCALE: NTS





SECTION A-103

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

Legend:

- GENERATED BASED ON AS-BUILT SURVEY INFORMATION
- CONSTRUCTED AS PER DESIGN, NO AS-BUILT SURVEY INFORMATION

No.	DATE	REVISION	APPR.
2	13-03-25	AS-BUILT DRAWING	RRM
1	08-01-31	AS-BUILT DRAWING	BWF

PERMIT TO PRACTICE
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PERMIT NUMBER: P039
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PROFESSIONAL ENGINEER NWT/NU
Mar25/13

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SCALE - ECHELLE 2 1 0 2 4 6m

PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

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TRADE - METIER	DATE
SITING	2003-03-31

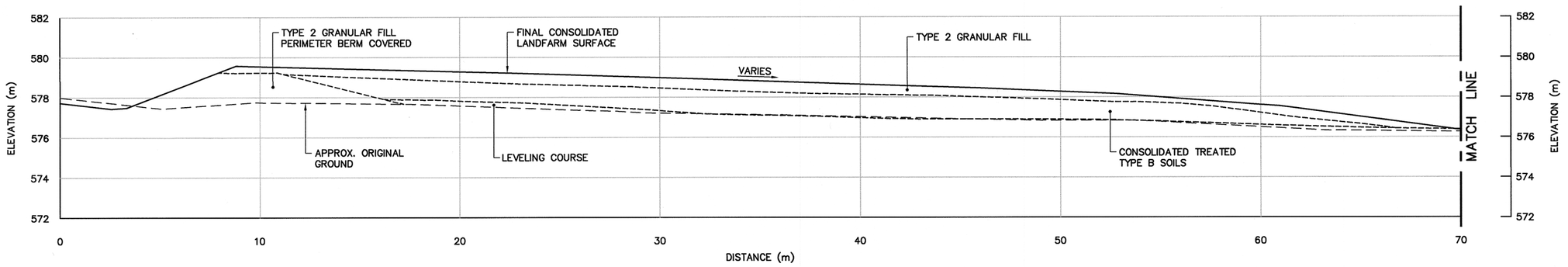
SUBJECT - SUJET

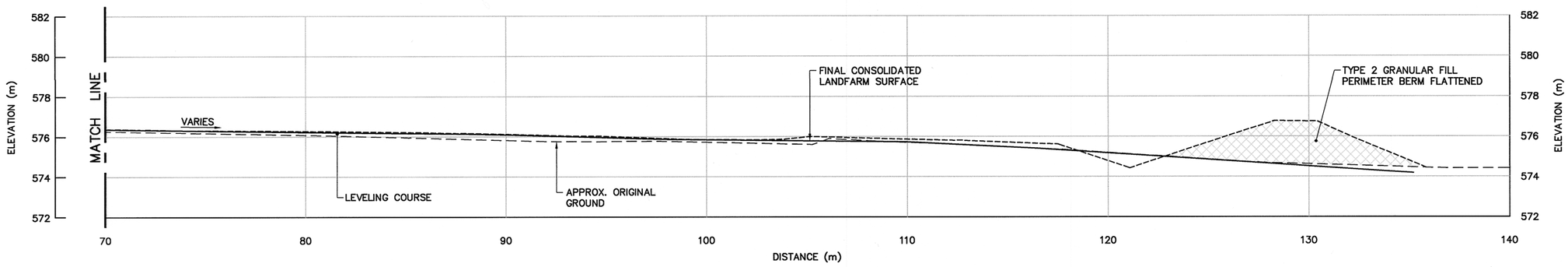
STATION AREA
NON-HAZARDOUS WASTE LANDFILL
CROSS SECTION

PRODUCTION	CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE CAE		SECT HD CHEF SECT
CHECKED VERIFIE RRM		DES MGR GEST CONCEPT
COORDINATION SMS	REVIEWED - REVU	

DWG. NO. - DESSIN NO.
H-B233/1-9101-108

Canada





SECTION B 103

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

Legend:

——— GENERATED BASED ON AS–BUILT SURVEY INFORMATION

- - - - - - GENERATED BASED ON INTERMEDIATE AS–BUILT SURVEY INFORMATION

No.	DATE	REVISION	REVISION	APPR.
2	13-03-25	AS–BUILT DRAWING		RRM
1	08-01-31	AS–BUILT DRAWING		BWF

PERMIT TO PRACTICE
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Date Mar 25/13
PERMIT NUMBER: P639
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Mar25/13

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SCALE – ECHELLE 2 1 0 2 4 6m

PROJECT – PROJET
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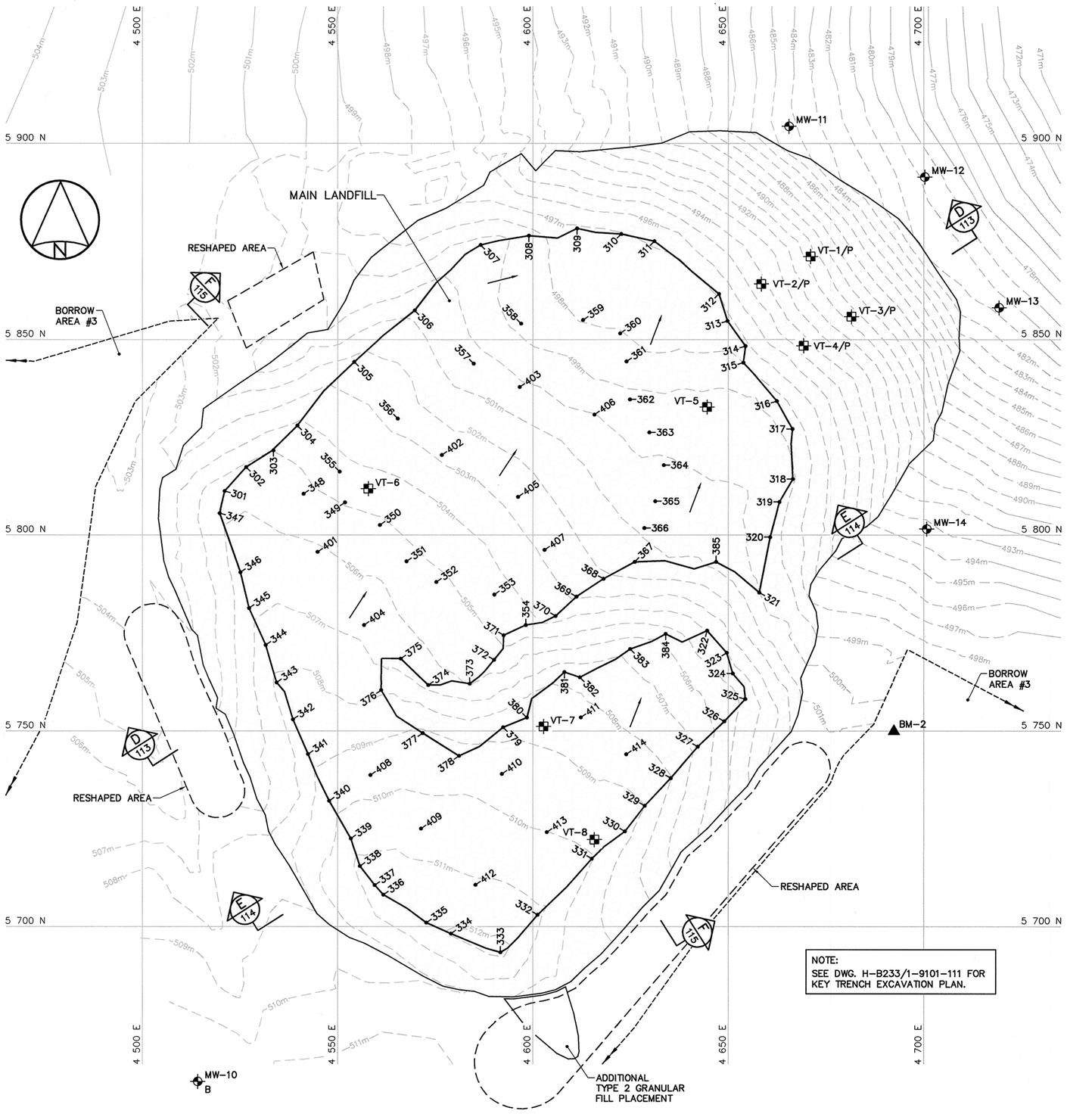
TRADE – METIER	DATE
SITING	2006–11–24

SUBJECT – SUJET
CLOSED
STATION AREA LANDFARM
CROSS SECTION

PRODUCTION	CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE CAE		SECT HD CHEF SECT
CHECKED VERIFIE RRM		DES MGR GEST CONCEPT
COORDINATION SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H–B233/1–9101–109A

Canada



NOTE:
SEE DWG. H-B233/1-9101-111 FOR KEY TRENCH EXCAVATION PLAN.

MAIN LANDFILL
FINAL GRADING (AS-BUILT)

NO.	COORDINATES		ELEV.	NO.	COORDINATES		ELEV.
	NORTHING	EASTING			NORTHING	EASTING	
301	5 811.2	4 521.1	505.7	351	5 793.3	4 567.6	505.4
302	5 817.4	4 526.6	505.2	352	5 788.0	4 575.3	505.3
303	5 821.6	4 533.6	505.0	353	5 784.8	4 590.2	504.6
304	5 828.0	4 539.7	504.2	354	5 777.1	4 598.2	504.4
305	5 844.3	4 554.2	502.3	355	5 816.2	4 550.5	504.4
306	5 857.5	4 569.8	500.8	356	5 829.8	4 565.4	502.7
307	5 874.2	4 586.6	499.4	357	5 843.9	4 584.8	500.4
308	5 876.5	4 599.0	498.5	358	5 854.1	4 597.0	498.7
309	5 878.4	4 611.3	497.2	359	5 855.0	4 612.9	497.9
310	5 876.9	4 622.7	497.1	360	5 851.6	4 622.4	498.0
311	5 875.1	4 631.1	496.9	361	5 844.4	4 624.0	498.3
312	5 861.7	4 647.6	497.0	362	5 834.7	4 624.9	499.3
313	5 854.7	4 649.8	497.3	363	5 826.2	4 629.8	499.8
314	5 848.4	4 654.4	497.2	364	5 817.9	4 633.5	500.1
315	5 844.1	4 653.8	498.0	365	5 808.6	4 631.3	500.6
316	5 834.2	4 662.4	498.5	366	5 801.8	4 628.5	500.9
317	5 827.1	4 666.4	498.5	367	5 793.2	4 626.1	501.3
318	5 814.3	4 666.5	499.1	368	5 788.8	4 618.1	502.2
319	5 808.4	4 663.1	499.5	369	5 784.3	4 611.2	502.9
320	5 799.5	4 660.7	499.6	370	5 779.4	4 605.8	503.5
321	5 785.3	4 658.0	500.0	371	5 774.5	4 592.6	504.7
322	5 775.6	4 644.6	504.0	372	5 768.2	4 590.1	505.2
323	5 770.0	4 649.6	504.0	373	5 762.1	4 583.8	505.9
324	5 764.7	4 651.2	504.5	374	5 761.8	4 573.2	506.6
325	5 758.2	4 654.3	504.8	375	5 768.5	4 566.2	506.4
326	5 752.5	4 649.0	505.6	376	5 760.5	4 561.1	507.9
327	5 746.0	4 642.2	506.8	377	5 749.5	4 571.8	509.2
328	5 738.0	4 635.3	508.0	378	5 743.7	4 581.1	509.5
329	5 730.9	4 628.7	509.0	379	5 751.0	4 592.4	508.8
330	5 724.3	4 623.6	509.4	380	5 753.4	4 598.5	508.7
331	5 717.4	4 615.1	510.1	381	5 765.1	4 608.1	507.6
332	5 703.0	4 601.2	511.2	382	5 763.7	4 612.1	507.7
333	5 693.5	4 591.7	512.3	383	5 771.0	4 624.9	506.8
334	5 698.2	4 579.1	512.1	384	5 774.8	4 634.0	505.5
335	5 701.0	4 572.7	511.7	385	5 793.1	4 646.9	500.7
336	5 708.1	4 561.7	511.5				
337	5 710.6	4 559.5	511.6	401	5 795.7	4 544.9	506.1
338	5 715.5	4 555.7	511.2	402	5 820.5	4 576.7	502.8
339	5 722.5	4 553.4	510.7	403	5 837.9	4 596.6	500.2
340	5 732.2	4 547.9	509.6	404	5 777.1	4 556.8	506.8
341	5 744.1	4 542.4	508.8	405	5 809.7	4 596.2	502.6
342	5 753.0	4 538.6	508.4	406	5 830.8	4 615.8	500.0
343	5 762.4	4 534.3	508.2	407	5 796.2	4 603.0	502.9
344	5 772.0	4 531.6	507.5	408	5 738.8	4 558.4	509.6
345	5 781.4	4 527.3	506.8	409	5 725.0	4 571.4	510.6
346	5 790.5	4 525.1	506.6	410	5 739.1	4 592.1	509.5
347	5 805.6	4 519.8	505.8	411	5 753.5	4 612.3	508.3
348	5 810.5	4 541.3	505.2	412	5 710.7	4 585.3	511.1
349	5 808.3	4 551.9	504.9	413	5 724.1	4 603.6	510.0
350	5 802.6	4 560.8	505.2	414	5 744.1	4 623.9	508.4

MAIN LANDFILL GROUND TEMPERATURE CABLES/PIEZOMETERS (AS-BUILT)

NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
VT-1/P	5 871.2	4 671.1	490.5
VT-2/P	5 864.2	4 658.5	494.3
VT-3/P	5 855.8	4 681.5	490.5
VT-4/P	5 848.4	4 669.3	494.4
VT-5	5 832.7	4 644.6	499.4
VT-6	5 811.8	4 557.9	504.5
VT-7	5 751.2	4 602.7	508.7
VT-8	5 722.2	4 615.8	509.8

MAIN LANDFILL MONITORING WELLS (AS-BUILT)

NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
MW-10	5 660.5	4 514.2	511.1
MW-11	5 904.4	4 665.5	484.6
MW-12	5 891.5	4 700.2	479.8
MW-13	5 858.1	4 719.3	480.5
MW-14	5 801.6	4 700.7	493.3

NOTE:
FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

NOTE:
CONTOURS SHOWN AS DASHED LINES WERE GENERATED FROM SURVEY INFORMATION AND REPRESENT FINISHED GROUND SURFACE FOLLOWING REGRADING OR RESHAPING.

PERMANENT BENCHMARKS

NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
BM-2	5 749.976	4 692.327	502.600	25mm DIA. STEEL PIPE

NOTE: THE STATION AREA IS ON A SEPARATE COORDINATE SYSTEM. IT IS NOT TIED-IN TO THE SITE SURVEY AT THE MIDDLE SITE, COMMUNITY BORROW, AIRSTRIP AND BEACH AREAS.

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. FOR MONITORING WELL INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.
5. FOR GROUND TEMPERATURE CABLE/ PIEZOMETER INSTALLATION DETAILS, SEE DWG. H-B233/1-9101-124.
6. FOR PERMANENT SURVEY CONTROL (BENCHMARK) INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.

Legend:

- ▲BM-2 — PERMANENT BENCHMARK LOCATION (1)
- •301 — COORDINATE POINT
- MW-11 — MONITORING WELL LOCATION (4)
- MW-10 B — BACKGROUND MONITORING WELL LOCATION (1)
- VT-5 — GROUND TEMPERATURE CABLE LOCATION (4)
- VT-1/P — GROUND TEMPERATURE CABLE AND PIEZOMETER LOCATION (4)

No.	DATE	REVISION	REVISION	APPR.
3	13-03-25	AS-BUILT DRAWING		RRM
2	08-01-31	AS-BUILT DRAWING		BWF
1	06-02-28	REVISED LANDFILL DESIGN		RRM

PERMIT TO PRACTICE
AECOM Canada Ltd.
Signature
Date
PERMIT NUMBER: P539
NWT/NU Association of Professional Engineers and Geoscientists

Mar 25/13

AECOM HATCH

SCALE - ECHELLE 10 5 0 10 20 30m

PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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TRADE - METIER	DATE
SITING	2003-03-31

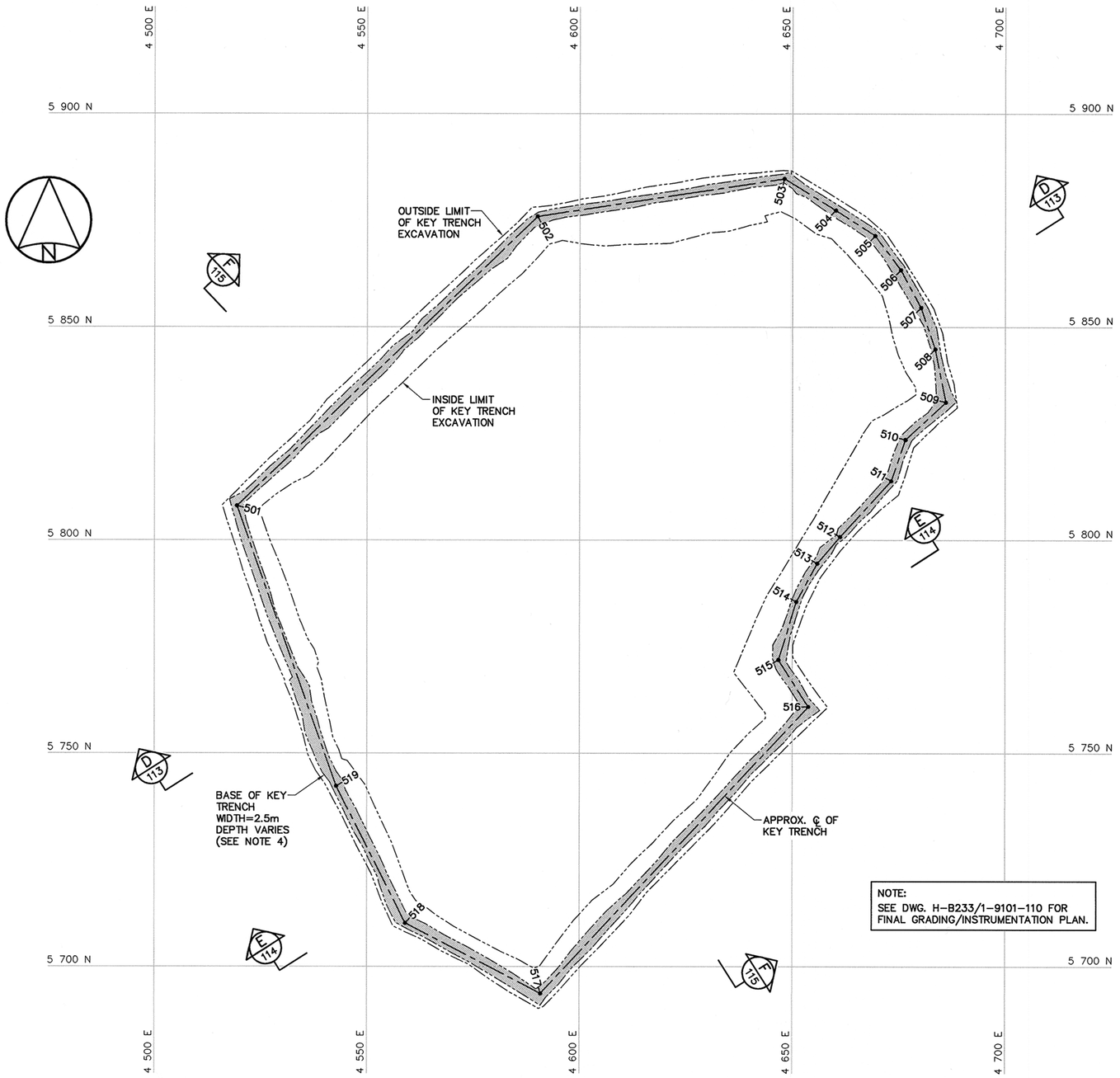
SUBJECT - SUJET

MAIN LANDFILL
GRADING/INSTRUMENTATION PLAN

PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED - REVU	

DWG. NO. - DESSIN NO.
H-B233/1-9101-110

Canada



NOTE:
FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.

NOTE:
SEE DWG. H-B233/1-9101-110 FOR FINAL GRADING/INSTRUMENTATION PLAN.

MAIN LANDFILL KEY TRENCH EXCAVATION (AS-BUILT)		
NO.	COORDINATES	
	NORTHING	EASTING
501	5 808.0	4 519.4
502	5 875.9	4 590.1
503	5 884.8	4 648.1
504	5 877.4	4 660.2
505	5 871.5	4 669.4
506	5 863.4	4 675.4
507	5 854.6	4 680.2
508	5 844.9	4 683.5
509	5 832.4	4 686.1
510	5 823.6	4 676.6
511	5 813.9	4 673.2
512	5 800.8	4 661.2
513	5 794.6	4 655.9
514	5 785.6	4 651.0
515	5 772.0	4 646.8
516	5 761.0	4 653.8
517	5 693.7	4 590.9
518	5 710.2	4 559.1
519	5 742.3	4 542.8

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. KEY TRENCH WAS EXCAVATED TO SATURATED GROUND. EXCAVATION DEPTH WAS FIELD CONFIRMED BY THE SITE ENGINEER.

Legend:
←501 COORDINATE POINT

No.	DATE	REVISION	APPR.
3	13-03-25	AS-BUILT DRAWING	RRM
2	08-01-31	AS-BUILT DRAWING	BWF
1	05-07-22	REVISED TRENCH ALIGNMENT	BWF

PERMIT TO PRACTICE
AECOM Canada Ltd.
Signature
Date
PERMIT NUMBER: P659
NWT/NU Association of Professional Engineers and Geoscientists
YMAR 25/13

AECOM HATCH

SCALE - ECHELLE 10 5 0 10 20 30m

PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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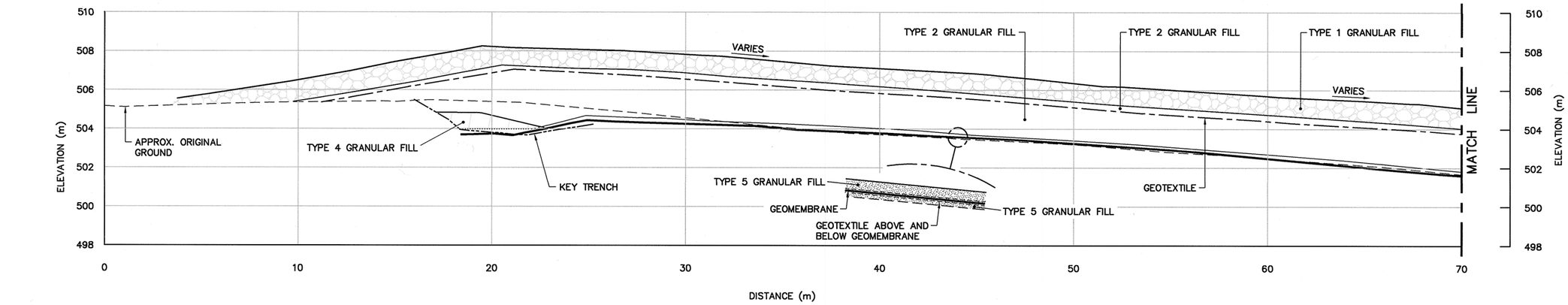
TRADE - METIER: SITING
DATE: 2003-03-31

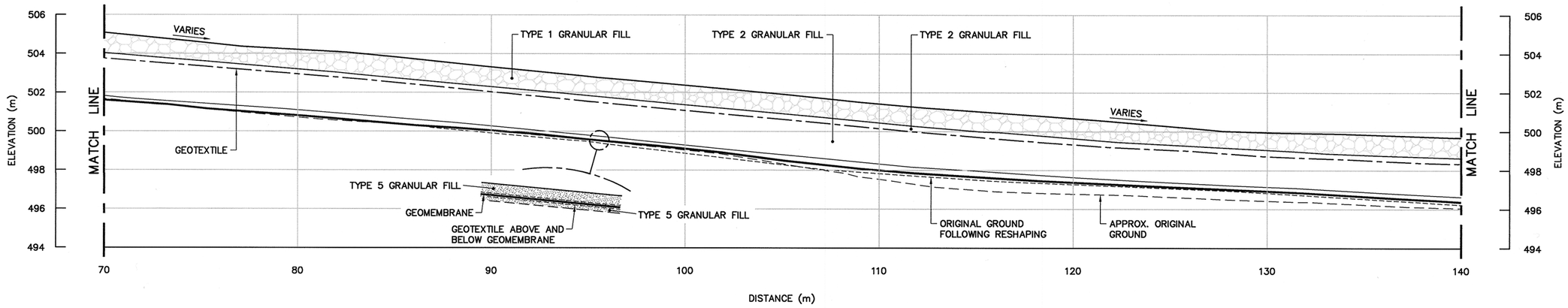
SUBJECT - SUJET
MAIN LANDFILL
KEY TRENCH EXCAVATION PLAN

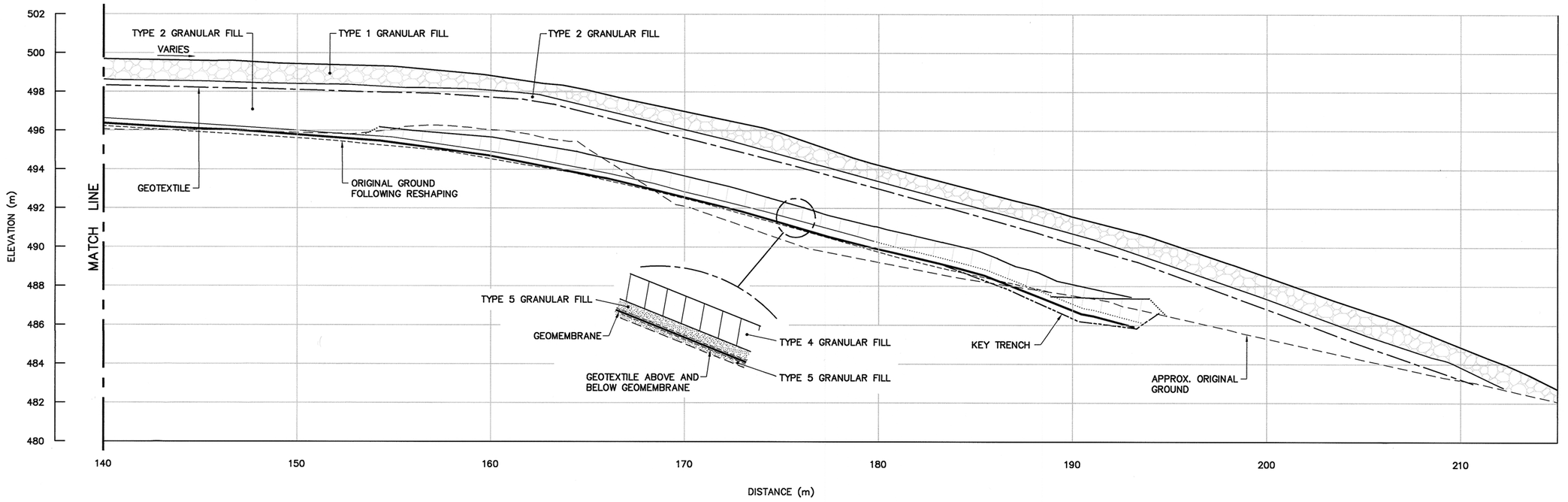
PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED - REVU	

DWG. NO. - DESSIN NO.
H-B233/1-9101-111

Canada







SECTION D
110, 111

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
3. KEY TRENCH WAS EXCAVATED TO SATURATED GROUND. EXCAVATION DEPTH WAS FIELD CONFIRMED BY THE SITE ENGINEER.

Legend:

——— GENERATED BASED ON AS-BUILT SURVEY INFORMATION

..... CONSTRUCTED AS PER DESIGN, NO AS-BUILT SURVEY INFORMATION

No.	DATE	REVISION	APPR.
3	13-03-25	AS-BUILT DRAWING	RRM
2	08-01-31	AS-BUILT DRAWING	BWF
1	06-02-28	REVISED LANDFILL DESIGN	RRM

PERMIT TO PRACTICE
AECOM Canada Ltd.
Signature
Date Mar 25/13
PERMIT NUMBER: P639
NWT/NU Association of Professional Engineers and Geoscientists

Mar. 25/13

AECOM HATCH

SCALE – ECHELLE 2 1 0 2 4 6m

PROJECT – PROJET
FOX-5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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TRADE – METIER	DATE
SITING	2003-03-31

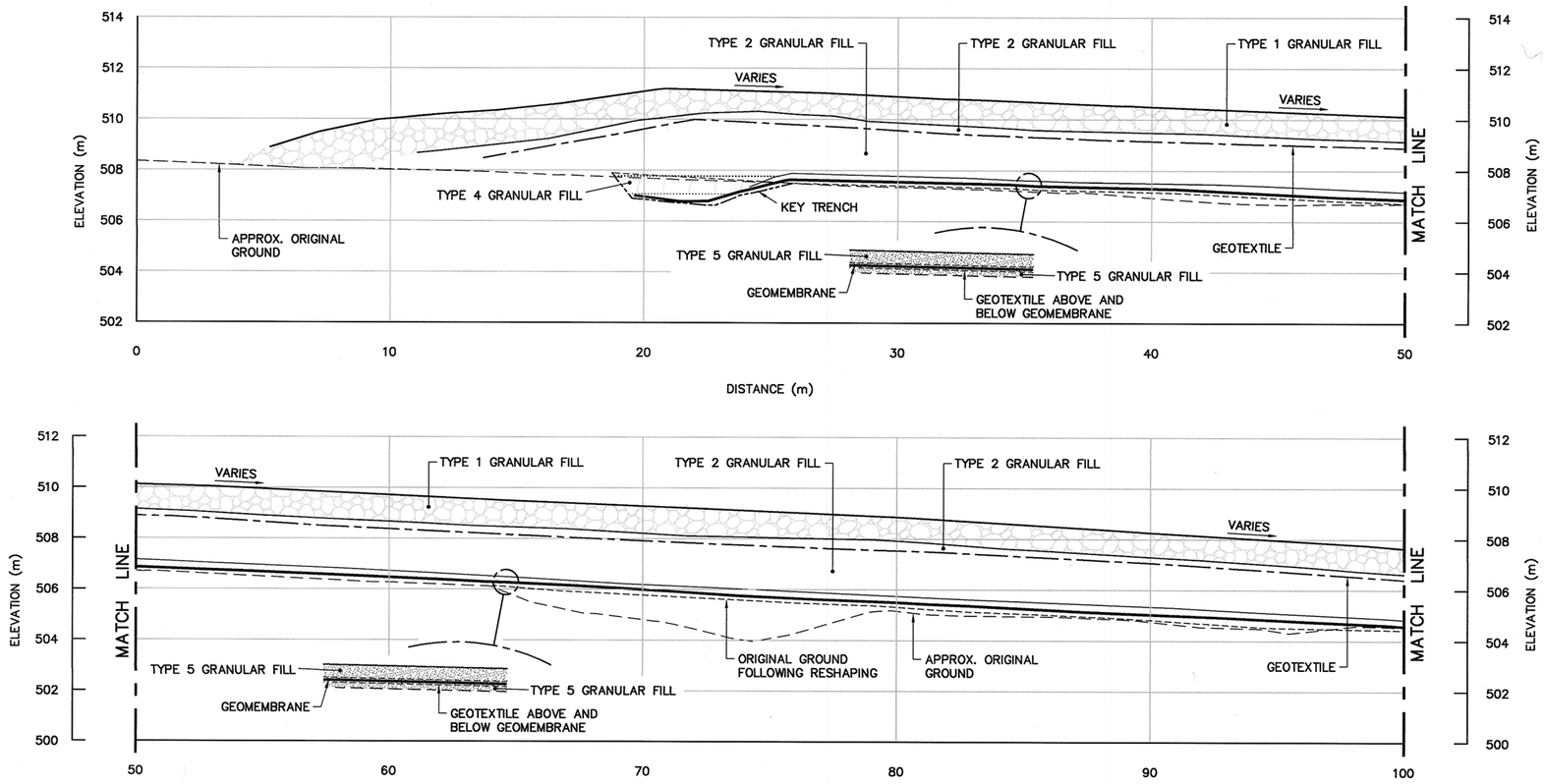
SUBJECT – SUJET

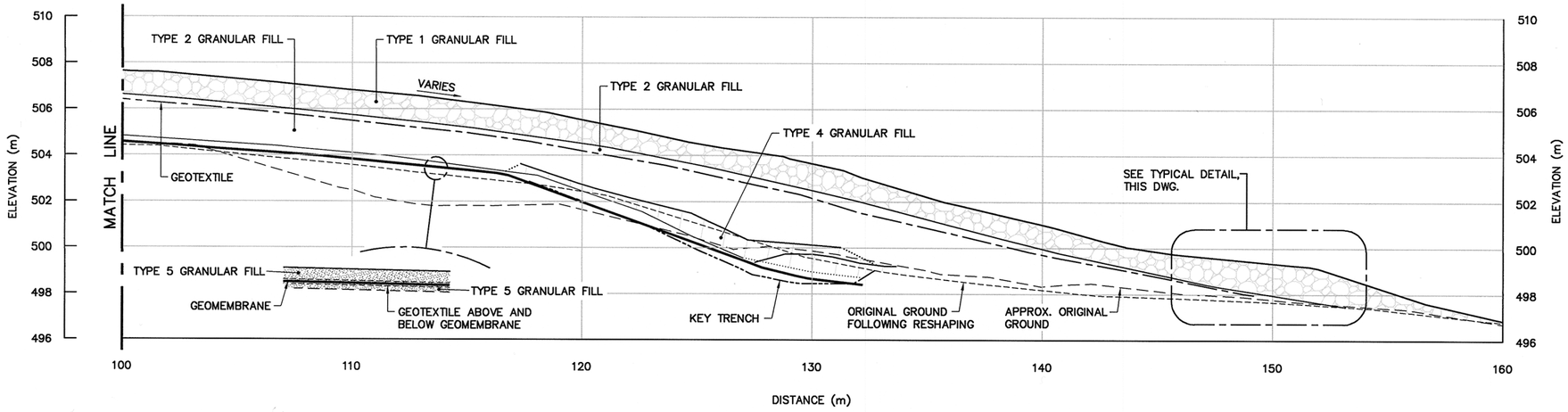
MAIN LANDFILL CROSS SECTION
SHEET 1

PRODUCTION		CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED – REVU	

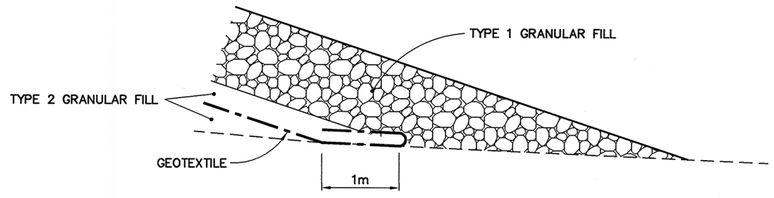
DWG. NO. – DESSIN NO.
H-B233/1-9101-113

Canada





SECTION E
110, 111



TYPICAL DETAIL
SCALE: NTS

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
3. KEY TRENCH WAS EXCAVATED TO SATURATED GROUND. EXCAVATION DEPTH WAS FIELD CONFIRMED BY THE SITE ENGINEER.

Legend:

——— GENERATED BASED ON AS-BUILT SURVEY INFORMATION

..... CONSTRUCTED AS PER DESIGN, NO AS-BUILT SURVEY INFORMATION

No.	DATE	REVISION	APPR.
3	13-03-25	AS-BUILT DRAWING	RRM
2	08-01-31	AS-BUILT DRAWING	BWF
1	06-02-28	REVISED LANDFILL DESIGN	RRM

PERMIT TO PRACTICE
AECOM Canada Ltd.
Signature
Date
PERMIT NUMBER: P639
NWT/NU Association of Professional Engineers and Geoscientists

AECOM HATCH

SCALE - ECHELLE 2 1 0 2 4 6m

PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

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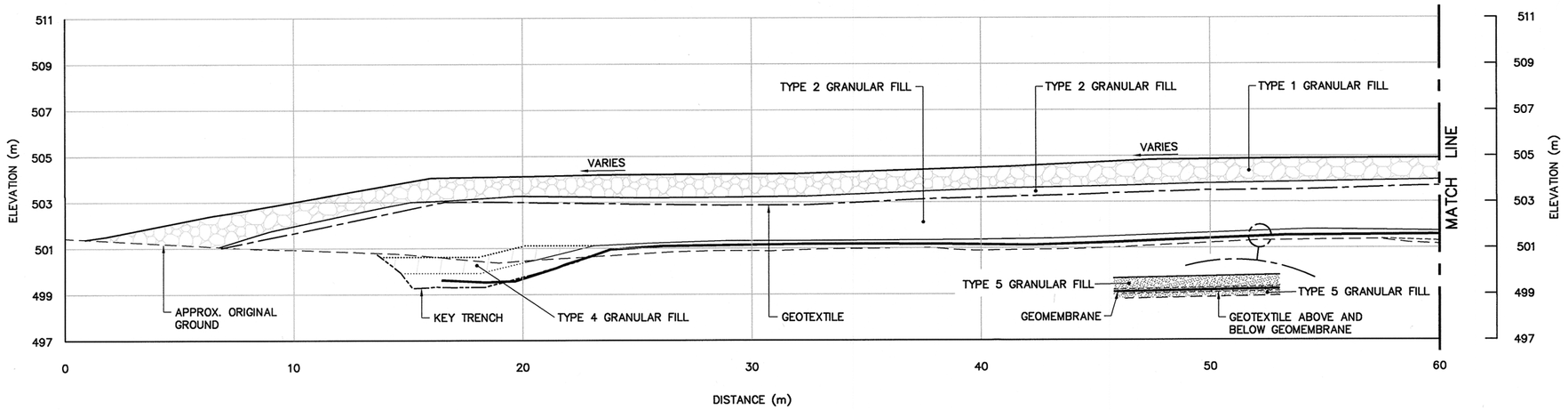
TRADE - METIER: SITING
DATE: 2003-03-31

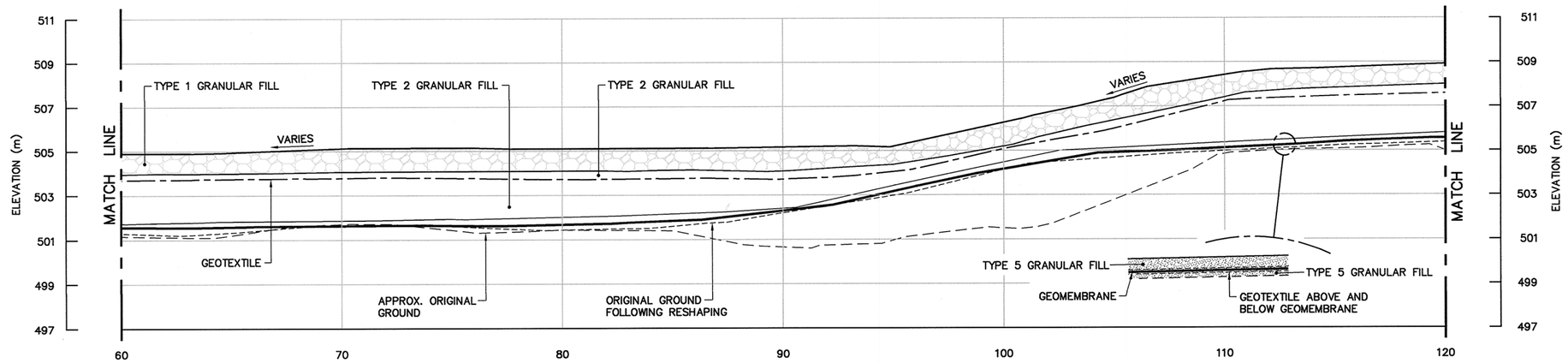
SUBJECT - SUJET
MAIN LANDFILL
CROSS SECTION AND DETAIL
SHEET 2

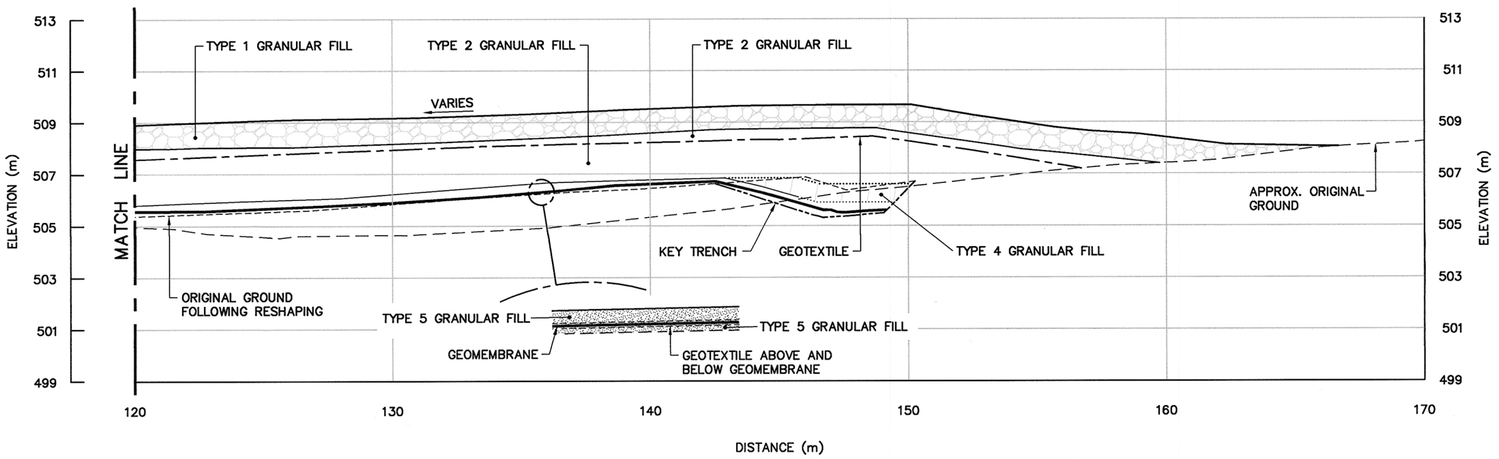
PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED - REVU	

DWG. NO. - DESSIN NO.
H-B233/1-9101-114

Canada







SECTION F
110, 111

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
3. KEY TRENCH WAS EXCAVATED TO SATURATED GROUND. EXCAVATION DEPTH WAS FIELD CONFIRMED BY THE SITE ENGINEER.

Legend:

——— GENERATED BASED ON AS-BUILT SURVEY INFORMATION

..... CONSTRUCTED AS PER DESIGN, NO AS-BUILT SURVEY INFORMATION

No.	DATE	REVISION	APPR.
3	13-03-25	AS-BUILT DRAWING	RRM
2	08-01-31	AS-BUILT DRAWING	BWF
1	06-02-28	REVISED LANDFILL DESIGN	RRM

PERMIT TO PRACTICE
AECOM Canada Ltd.
Signature
Date Mar 25/13
PERMIT NUMBER: P639
NWT/NU Association of Professional Engineers and Geoscientists

Mar 25/13

AECOM HATCH

SCALE – ECHELLE 2 1 0 2 4 6m

PROJECT – PROJET
FOX-5 BROUGHTON ISLAND

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TRADE – METIER	DATE
SITING	2003-03-31

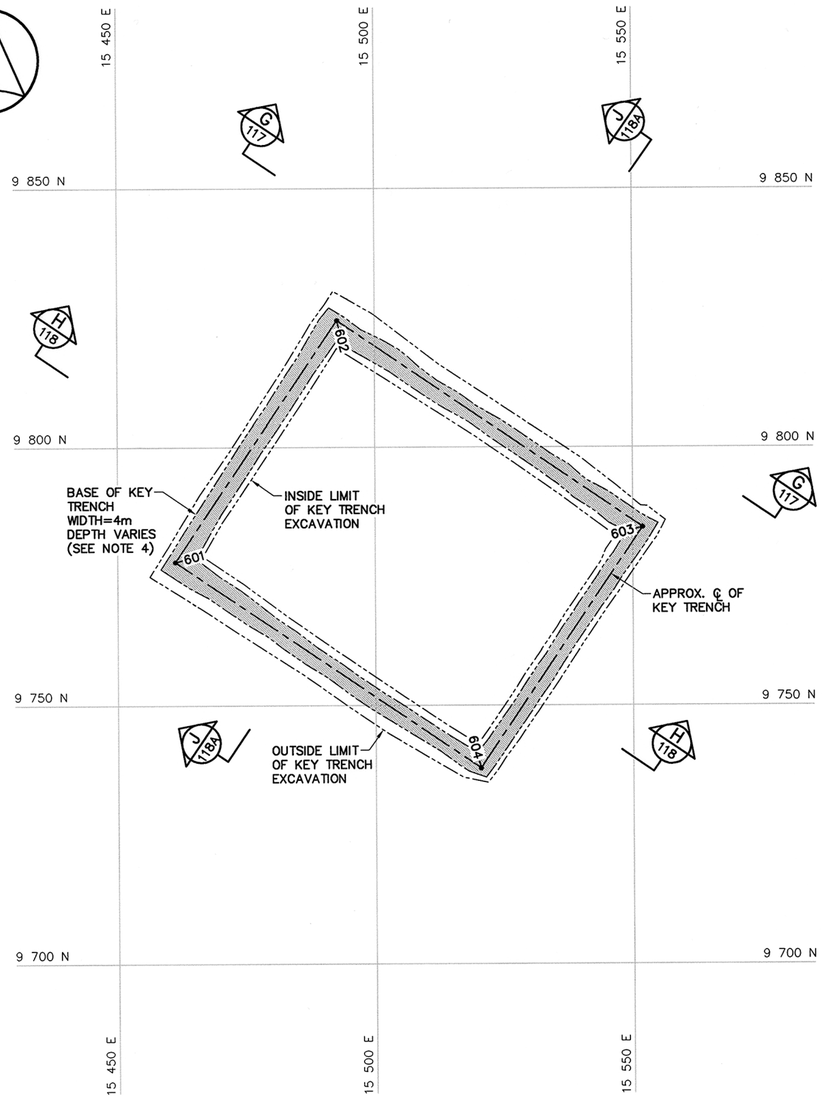
SUBJECT – SUJET

MAIN LANDFILL CROSS SECTION
SHEET 3

PRODUCTION		CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H-B233/1-9101-115

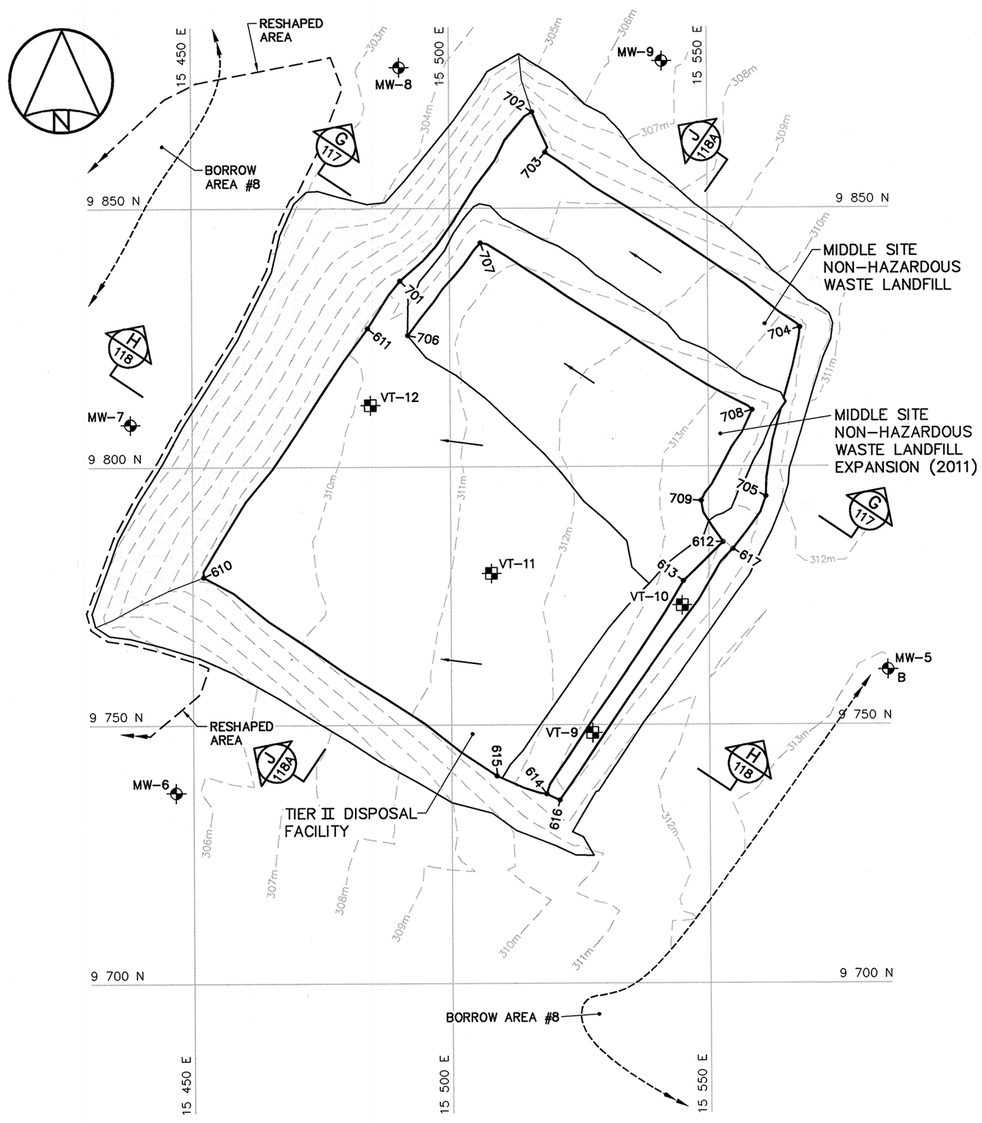
Canada



KEY TRENCH EXCAVATION PLAN

TIER II DISPOSAL FACILITY KEY TRENCH EXCAVATION (AS-BUILT)		
NO.	COORDINATES	
	NORTHING	EASTING
601	9 777.8	15 461.2
602	9 824.5	15 492.7
603	9 784.5	15 551.9
604	9 737.9	15 520.4

NOTE:
FOR DETAILS REGARDING CONFIRMATORY TESTING INFORMATION, REFER TO FINAL REPORT PREPARED BY THE ENVIRONMENTAL SCIENCES GROUP, ROYAL MILITARY COLLEGE.



FINAL GRADING/INSTRUMENTATION PLAN

MIDDLE SITE TIER II DISPOSAL FACILITY FINAL GRADING (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
610	9 778.8	15 452.1	309.4
611	9 826.8	15 484.1	310.3
612	9 785.3	15 552.8	314.0
613	9 777.9	15 545.1	313.7
614	9 736.6	15 518.4	312.8
615	9 740.1	15 508.8	311.6
616	9 735.4	15 520.9	312.9
617	9 784.0	15 554.7	314.0

MIDDLE SITE NON-HAZARDOUS WASTE LANDFILL FINAL GRADING (AS-BUILT)			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
701	9 836.0	15 490.4	309.6
702	9 868.7	15 516.1	308.8
703	9 860.9	15 518.6	309.5
704	9 826.9	15 567.8	312.3
705	9 794.2	15 561.1	312.8
706	9 825.4	15 491.9	310.5
707	9 843.3	15 506.0	310.7
708	9 810.9	15 558.5	313.4
709	9 793.4	15 548.6	313.4

MIDDLE SITE LANDFILL MONITORING WELLS			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
MW-5	9 760.6	15 584.6	313.2
MW-6	9 736.9	15 446.6	305.9
MW-7	9 808.2	15 438.1	303.1
MW-8	9 877.3	15 490.4	303.5
MW-9	9 878.4	15 541.2	306.7

MIDDLE SITE LANDFILL GROUND TEMPERATURE CABLES			
NO.	COORDINATES		ELEV.
	NORTHING	EASTING	
VT-9	9 748.5	15 527.3	313.4
VT-10	9 773.1	15 544.8	314.0
VT-11	9 779.4	15 507.9	311.4
VT-12	9 811.9	15 484.6	310.3

NOTE:
CONTOURS SHOWN AS DASHED LINES WERE GENERATED FROM SURVEY INFORMATION AND REPRESENT FINISHED GROUND SURFACE FOLLOWING REGRADING OR RESHAPING.

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
2. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. KEY TRENCH WAS EXCAVATED TO SATURATED GROUND. EXCAVATION DEPTH WAS FIELD CONFIRMED BY THE SITE ENGINEER.
5. FOR MONITORING WELL INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.
6. FOR GROUND TEMPERATURE CABLE INSTALLATION DETAIL, SEE DWG. H-B233/1-9101-125.

Legend:

- 601 — COORDINATE POINT
- MW-6 — MONITORING WELL LOCATION (4)
- MW-5 B — BACKGROUND MONITORING WELL LOCATION (1)
- VT-9 — GROUND TEMPERATURE CABLE LOCATION (4)

No.	DATE	REVISION	REVISION	APPR.
3	13-03-25	AS-BUILT DRAWING		RRM
2	08-01-31	AS-BUILT DRAWING		BWF
1	05-09-02	REVISED FILL PLACEMENT		BWF

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Signature
Date 14/25/13
PERMIT NUMBER: P039
NWT/NU Association of Professional Engineers and Geoscientists

Mar 25/13

AECOM HATCH

SCALE - ECHELLE 10 5 0 10 20 30m

PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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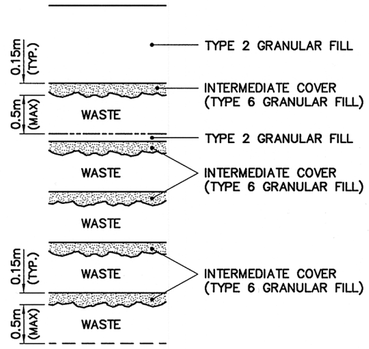
TRADE - METIER: SITING
DATE: 2003-03-31

SUBJECT - SUJET
TIER II DISPOSAL FACILITY
KEY TRENCH EXCAVATION PLAN & GRADING/INSTRUMENTATION PLAN

PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED - REVU	

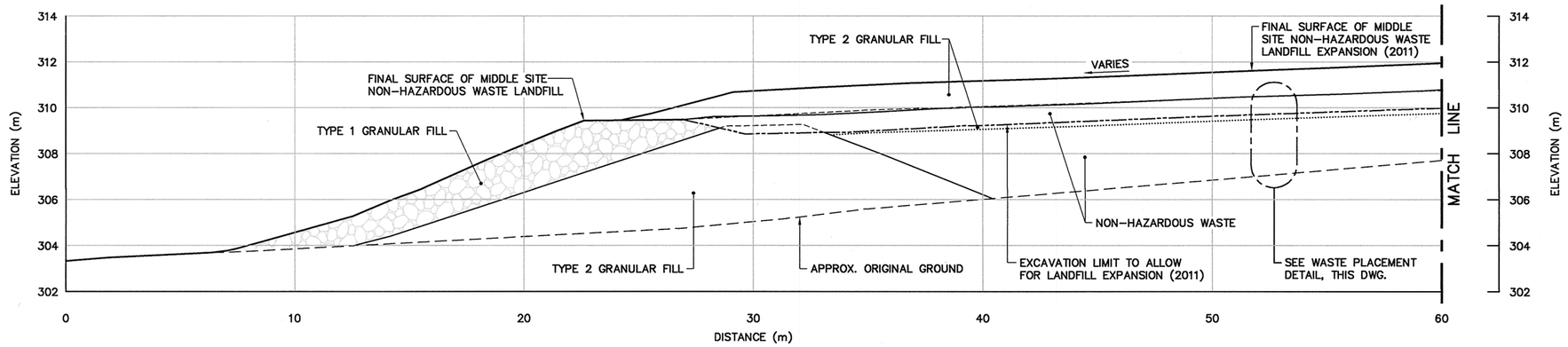
DWG. NO. - DESSIN NO.
H-B233/1-9101-116

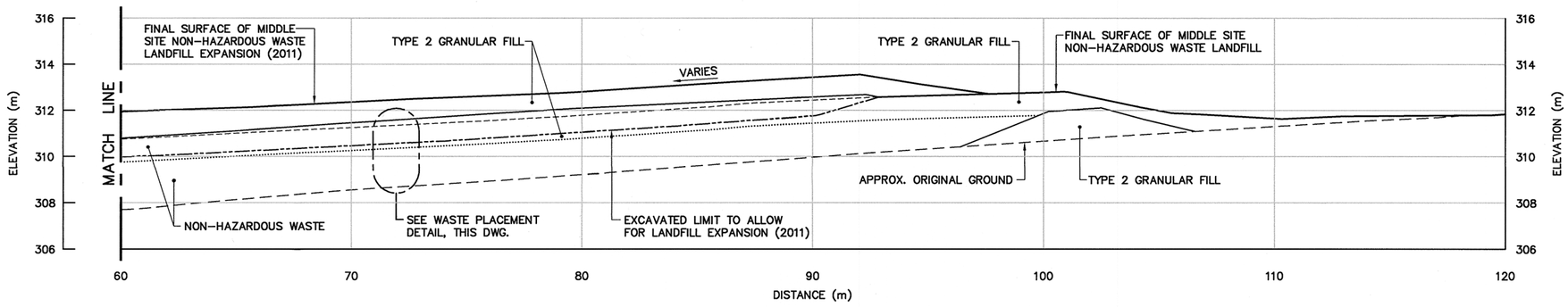
Canada



WASTE PLACEMENT DETAIL

SCALE: NTS





SECTION G 116

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

Legend:

- ——— GENERATED BASED ON AS-BUILT SURVEY INFORMATION
- - - - - - GENERATED BASED ON INTERMEDIATE AS-BUILT SURVEY INFORMATION EXCAVATED LANDFILL SURFACE TO ALLOW FOR LANDFILL EXPANSION (2011)
- ..... CONSTRUCTED AS PER DESIGN, NO AS-BUILT SURVEY INFORMATION

No.	DATE	REVISION	REVISION	APPR.
2	13-03-25	AS-BUILT DRAWING		RRM
1	08-01-31	AS-BUILT DRAWING		BWF

ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS NORTHWEST TERRITORIES — R R MACGREGOR — LICENSEE

Mar 25/13

PERMIT TO PRACTICE
AECOM Canada Ltd.
Signature
Date Mar 25/13
PERMIT NUMBER: P639
NWT/NU Association of Professional Engineers and Geoscientists

AECOM HATCH

SCALE - ECHELLE 2 1 0 2 4 6m

PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

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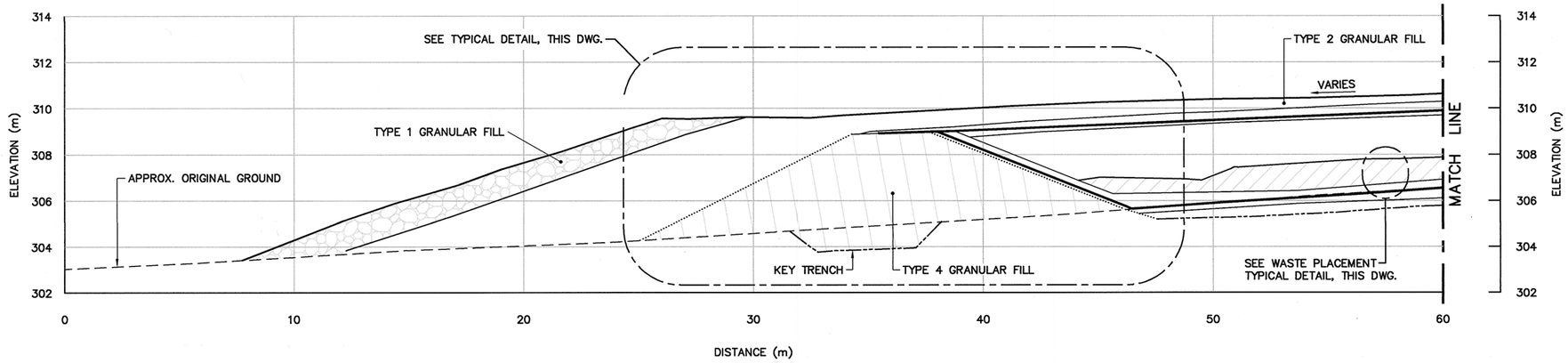
TRADE - METIER: SITING
DATE: 2003-03-31

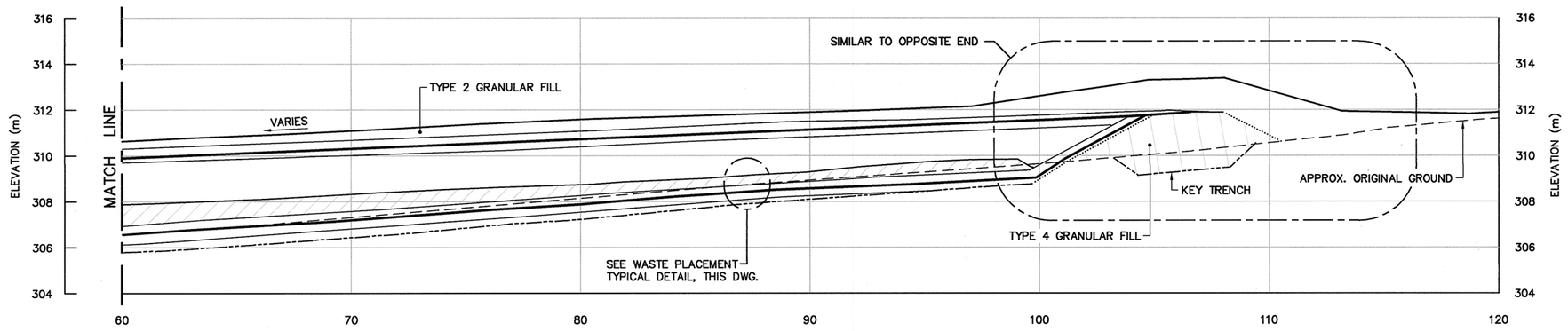
SUBJECT - SUJET
MIDDLE SITE
NON-HAZARDOUS WASTE LANDFILL
CROSS SECTION AND DETAIL

PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED - REVU	

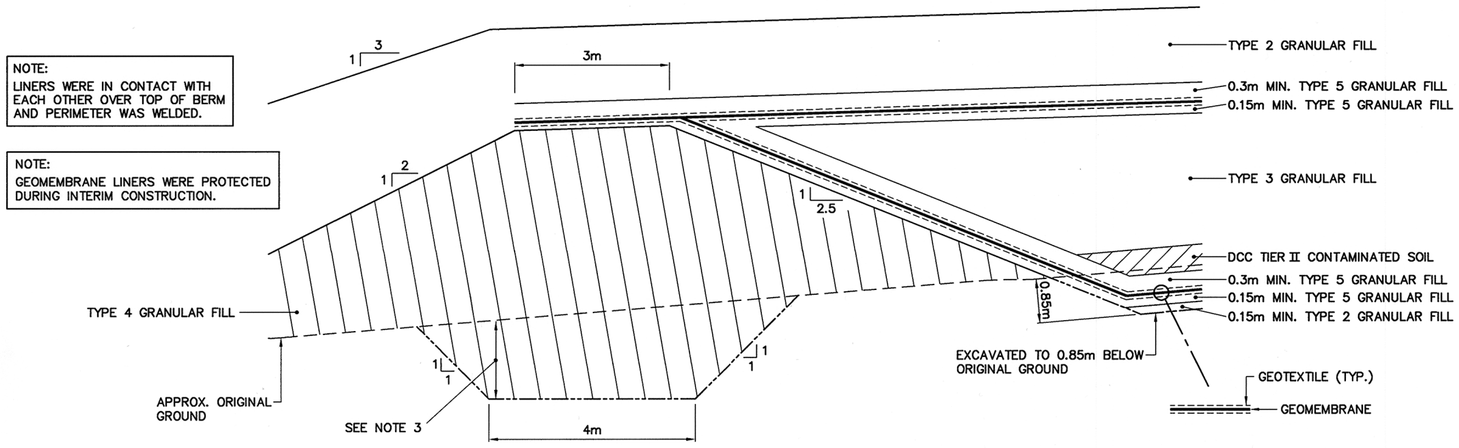
DWG. NO. - DESSIN NO.
H-B233/1-9101-117

Canada

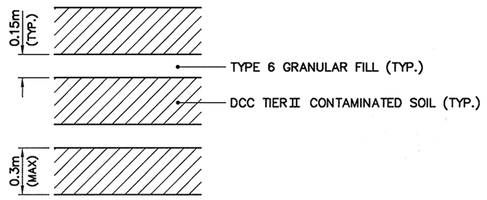




SECTION H 116



TYPICAL DETAIL
SCALE: NTS



WASTE PLACEMENT TYPICAL DETAIL
SCALE: NTS

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
3. KEY TRENCH WAS EXCAVATED TO SATURATED GROUND. EXCAVATION DEPTH WAS FIELD CONFIRMED BY THE SITE ENGINEER.

Legend:

——— GENERATED BASED ON AS-BUILT SURVEY INFORMATION

..... CONSTRUCTED AS PER DESIGN, NO AS-BUILT SURVEY INFORMATION

No.	DATE	REVISION	REVISION	APPR.
3	13-03-25	AS-BUILT DRAWING		RRM
2	08-01-31	AS-BUILT DRAWING		BWF
1	05-09-02	REVISED FILL PLACEMENT		BWF

PERMIT TO PRACTICE
AECOM Canada Ltd.
Signature
Date Mar 25/13
PERMIT NUMBER: P639
NWT/NU Association of Professional Engineers and Geoscientists

Mar 25/13

AECOM HATCH

SCALE - ECHELLE 2 1 0 2 4 6m

PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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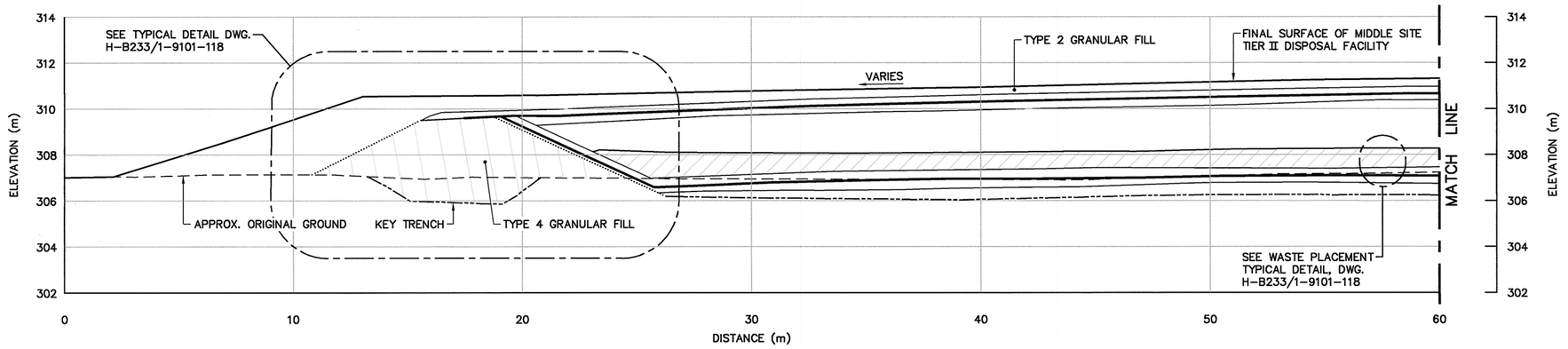
TRADE - METIER	DATE
SITING	2003-03-31

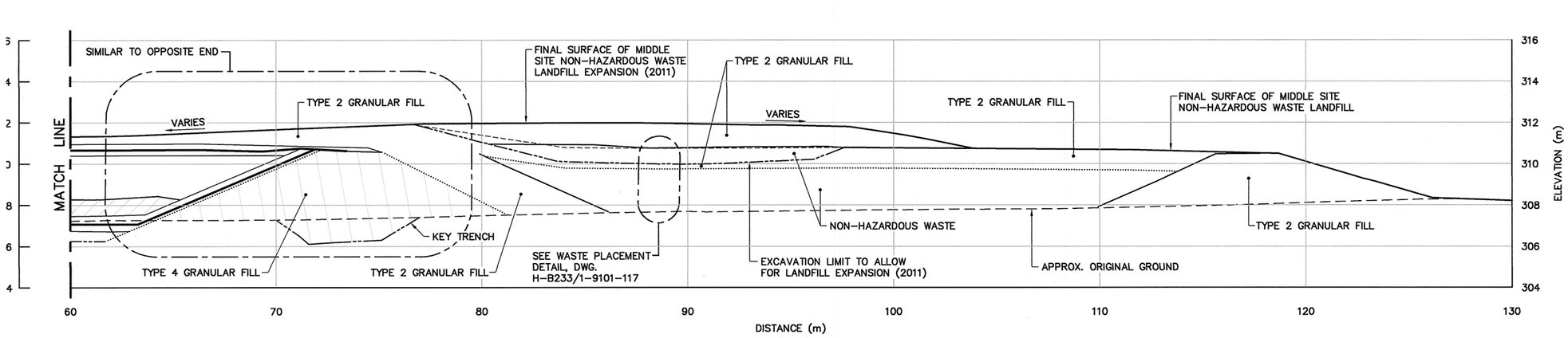
SUBJECT - SUJET
MIDDLE SITE
TIER II DISPOSAL FACILITY
CROSS SECTION AND DETAILS

PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED - REVU	

DWG. NO. - DESSIN NO.
H-B233/1-9101-118

Canada





SECTION J 116

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

Legend:

- GENERATED BASED ON AS-BUILT SURVEY INFORMATION
- GENERATED BASED ON INTERMEDIATE AS-BUILT SURVEY INFORMATION EXCAVATED LANDFILL SURFACE TO ALLOW FOR LANDFILL EXPANSION (2011)
- CONSTRUCTED AS PER DESIGN, NO AS-BUILT SURVEY INFORMATION

No.	DATE	REVISION	REVISION	APPR.
0	13-03-25	AS-BUILT DRAWING		RRM

PROFESSIONAL ENGINEER — NWT/NU — Mar 25/13

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Date Mar 25/13
PERMIT NUMBER: P639
NWT/NU Association of Professional Engineers and Geoscientists

AECOM HATCH

SCALE - ECHELLE 2 1 0 2 4 6m

PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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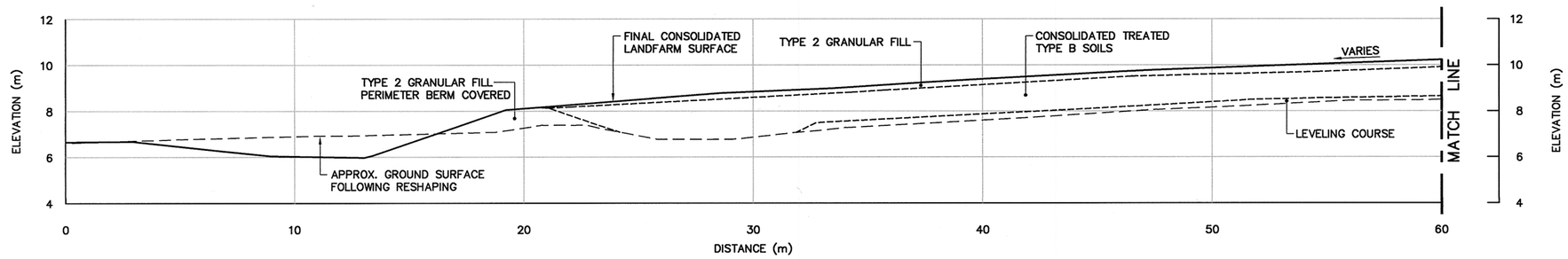
TRADE - METIER: SITING
DATE: 2012-03-08

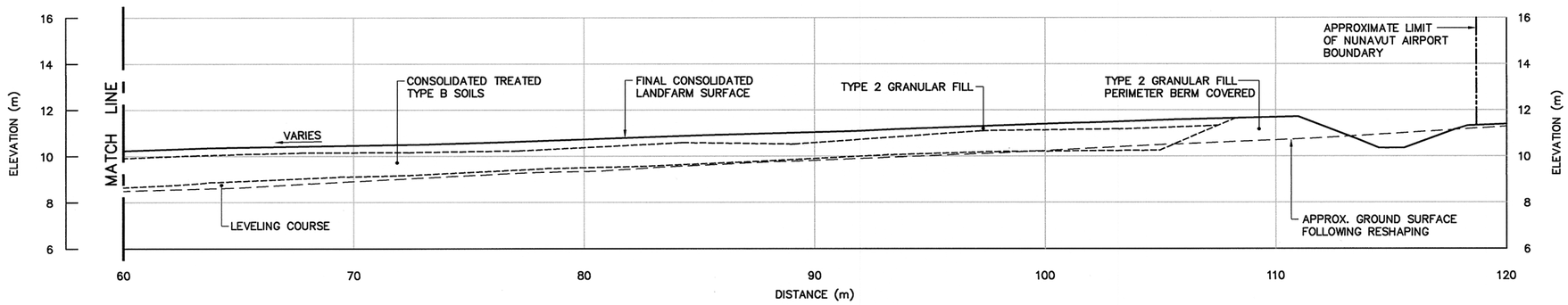
SUBJECT - SUJET
MIDDLE SITE NON-HAZARDOUS WASTE LANDFILL/TIER II DISPOSAL FACILITY CROSS SECTION

PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	IC		SECT HD CHEF SECT
CHECKED VERIFIE	DTM		DES MGR GEST CONCEPT
COORDINATION	RRM	REVIEWED - REVU	

DWG. NO. - DESSIN NO.
H-B233/1-9101-118A

Canada





SECTION C/106

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

Legend:

——— GENERATED BASED ON AS–BUILT SURVEY INFORMATION

- - - - - - GENERATED BASED ON INTERMEDIATE AS–BUILT SURVEY INFORMATION

No.	DATE	REVISION	REVISION	APPR.
2	13-03-25	AS–BUILT DRAWING		RRM
1	08-01-31	AS–BUILT DRAWING		BWF

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Date Mar 25/13
PERMIT NUMBER: P659
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SCALE – ECHELLE 2 1 0 2 4 6m

PROJECT – PROJET
FOX–5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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TRADE – METIER: SITING
DATE: 2006–11–24

SUBJECT – SUJET
CLOSED
AIRSTRIP AREA LANDFARM
CROSS SECTION

PRODUCTION		CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED – REVU	

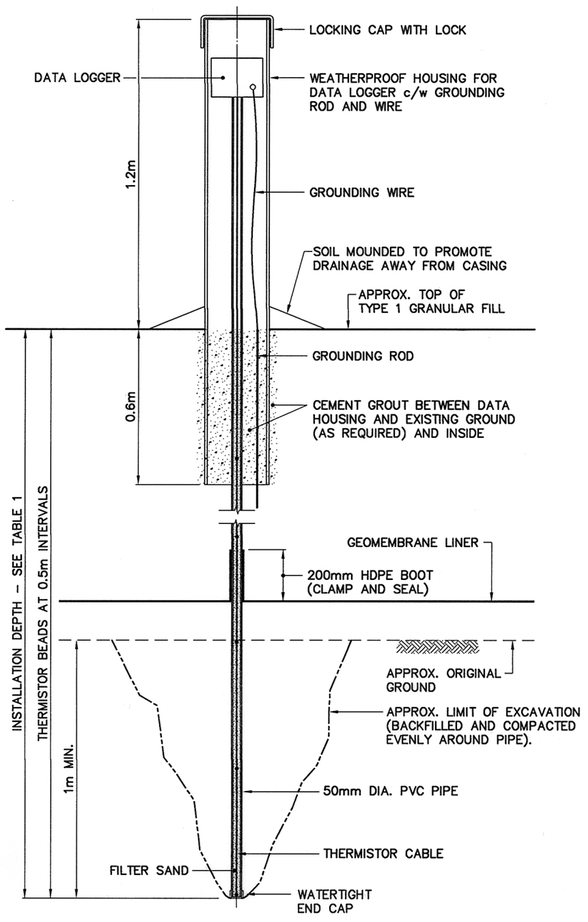
DWG. NO. – DESSIN NO.
H–B233/1–9101–119A

Canada

TABLE 1 GROUND TEMPERATURE CABLE INSTALLATION		
INSTRUMENT No.	APPROXIMATE DEPTH BELOW FINAL GRADE (m)	COMMENTS
MAIN LANDFILL		
VT–5	4.51	
VT–6	4.75	
VT–7	4.67	

TABLE 2 GROUND TEMPERATURE CABLE AND PIEZOMETER INSTALLATION		
INSTRUMENT No.	APPROXIMATE DEPTH BELOW FINAL GRADE (m)	COMMENTS
MAIN LANDFILL		
VT–2/P2	4.84	PIEZOMETER TIP INSTALLED BELOW LINER
VT–4/P4	4.22	PIEZOMETER TIP INSTALLED BELOW LINER

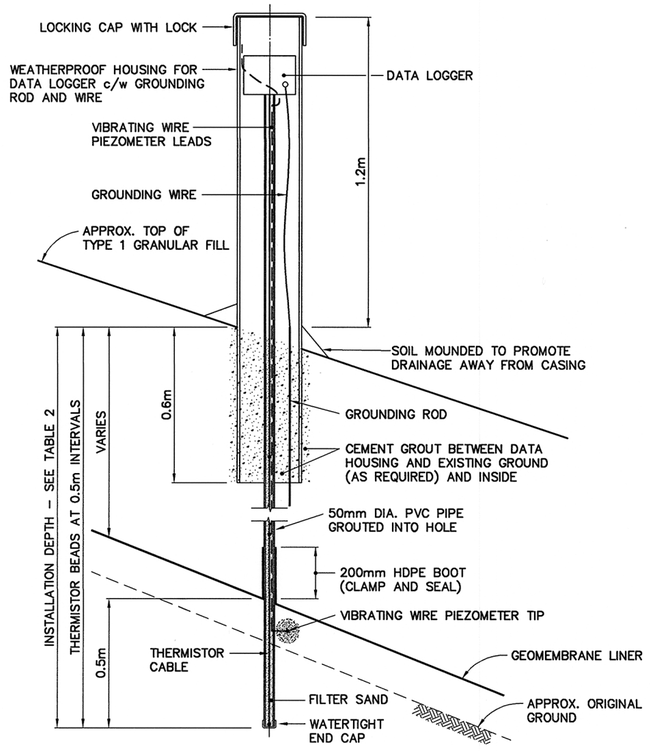
TABLE 3 GROUND TEMPERATURE CABLE AND PIEZOMETER INSTALLATION		
INSTRUMENT No.	APPROXIMATE DEPTH BELOW FINAL GRADE (m)	COMMENTS
MAIN LANDFILL		
VT–1/P1	5.08	PIEZOMETER TIP INSTALLED BELOW LINER
VT–3/P3	4.50	PIEZOMETER TIP INSTALLED BELOW LINER
VT–8	4.59	PIEZOMETER NOT REQUIRED



TYPICAL GROUND TEMPERATURE CABLE

SCALE: NTS

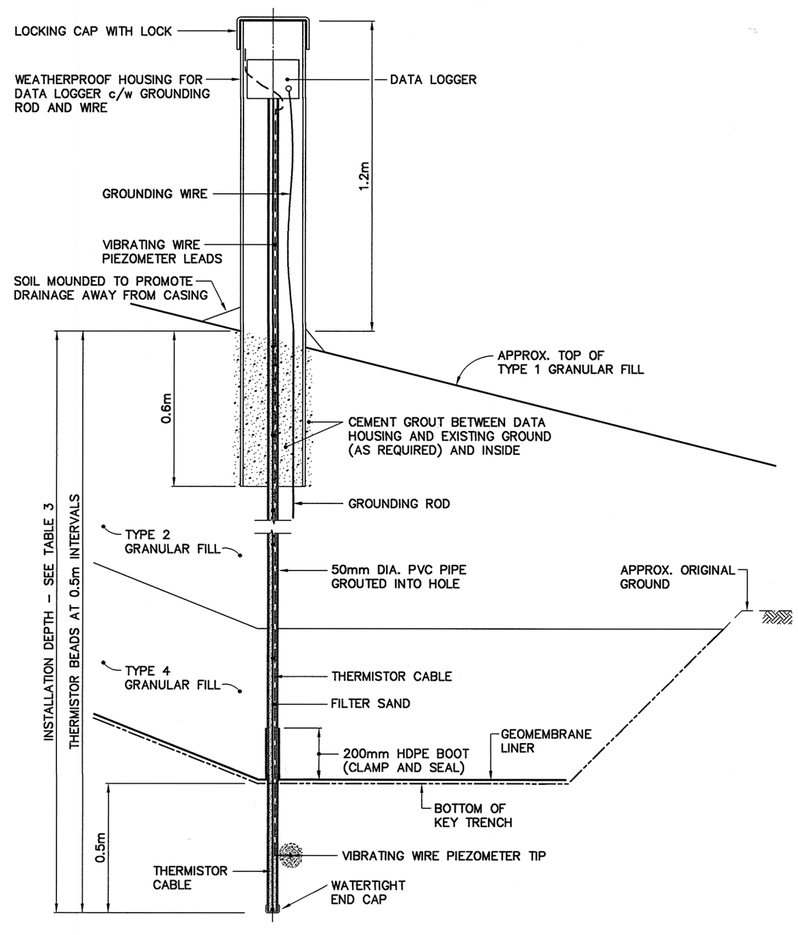
MAIN LANDFILL, VT–5, VT–6, VT–7 (PLATEAU)



TYPICAL GROUND TEMPERATURE CABLE

SCALE: NTS

MAIN LANDFILL, VT–2/P2, VT–4/P4 (SLOPES WITH PIEZOMETER)



TYPICAL GROUND TEMPERATURE CABLE

SCALE: NTS

MAIN LANDFILL, VT–1/P1, VT–3/P3, VT–8 (KEY TRENCH WITH PIEZOMETER)

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
3. LOCATIONS OF INSTRUMENTATION ARE SHOWN ON THE DRAWINGS INCLUDING COORDINATE TABLES.

No.	DATE	REVISION	REVISION	APPR.
2	13-03-25	AS–BUILT DRAWING		RRM
1	08-01-31	AS–BUILT DRAWING		BWF

Mar. 25/13

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SCALE – ECHELLE: AS SHOWN

PROJECT – PROJET: FOX–5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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TRADE – METIER: SITING

DATE: 2003–03–31

SUBJECT – SUJET

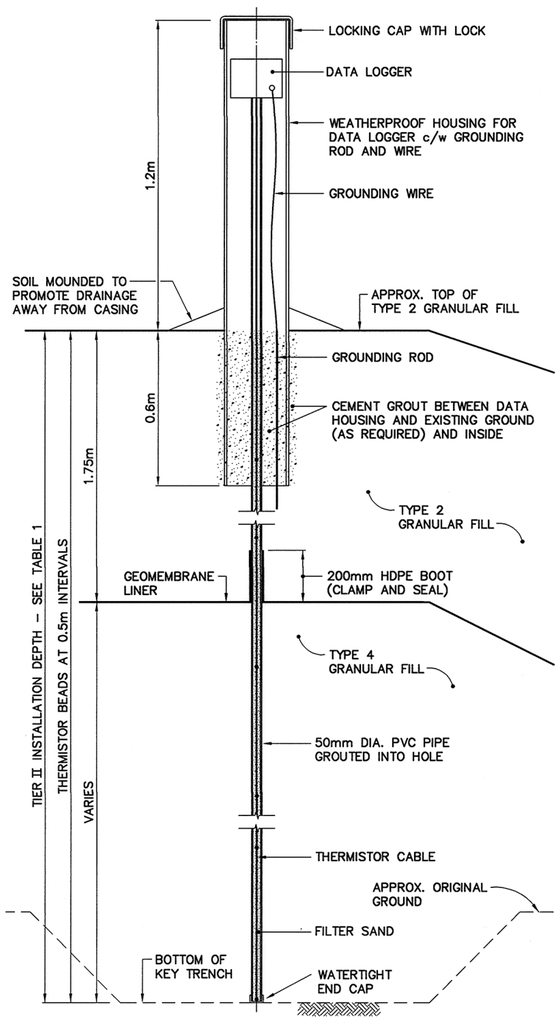
MISCELLANEOUS DETAILS
SHEET 1

PRODUCTION		CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H–B233/1–9101–124

Canada

TABLE 1 GROUND TEMPERATURE CABLE INSTALLATION		
INSTRUMENT No.	APPROXIMATE DEPTH BELOW FINAL GRADE (m)	COMMENTS
TIER II DISPOSAL FACILITY		
VT–9	4.18	INSTALLED THROUGH CENTERLINE BERM TO INVERT OF KEY TRENCH
VT–10	4.25	INSTALLED THROUGH CENTERLINE BERM TO INVERT OF KEY TRENCH
VT–11	2.69	INSTALLED TO 1m ABOVE ELEVATION OF BOTTOM LINER
VT–12	6.24	INSTALLED THROUGH CENTERLINE BERM TO INVERT OF KEY TRENCH



TYPICAL GROUND TEMPERATURE CABLE

SCALE: NTS
TIER II DISPOSAL FACILITY, VT–9, VT–10, VT–11, VT–12

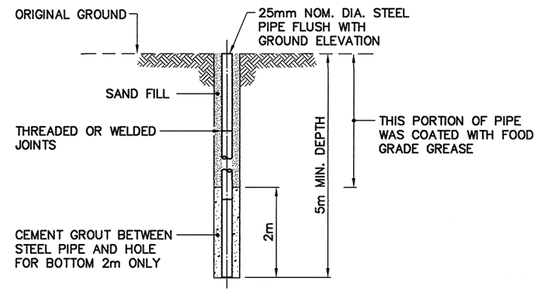
NOTE:
15 MONITORING WELLS REMAINING.
8 MONITORING WELLS REMOVED.

TYPICAL MONITORING WELL

SCALE: NTS
INCLUDING TYPICAL BACKGROUND MONITORING WELL INSTALLATION

MIN. EMBEDMENT WAS REDUCED IF ROCK WAS ENCOUNTERED. INSTALLATION WAS PENETRATED 2m (MIN.) INTO ROCK.

NOTE:
4 PERMANENT SURVEY CONTROL MONUMENTS INSTALLED.



TYPICAL PERMANENT SURVEY CONTROL MONUMENT

SCALE: NTS
ALSO KNOWN AS PERMANENT BENCHMARK

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS REFER TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
3. LOCATIONS OF INSTRUMENTATION ARE SHOWN ON THE DRAWINGS INCLUDING COORDINATE TABLES.

No.	DATE	REVISION	APPR.
2	13-03-25	AS–BUILT DRAWING	RRM
1	08-01-31	AS–BUILT DRAWING	BWF

APEGGA PROFESSIONAL ENGINEER PERMIT TO PRACTICE
Mar. 25/13

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Date
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NWT/NU Association of Professional Engineers and Geoscientists

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SCALE – ECHELLE: AS SHOWN

PROJECT – PROJET
FOX–5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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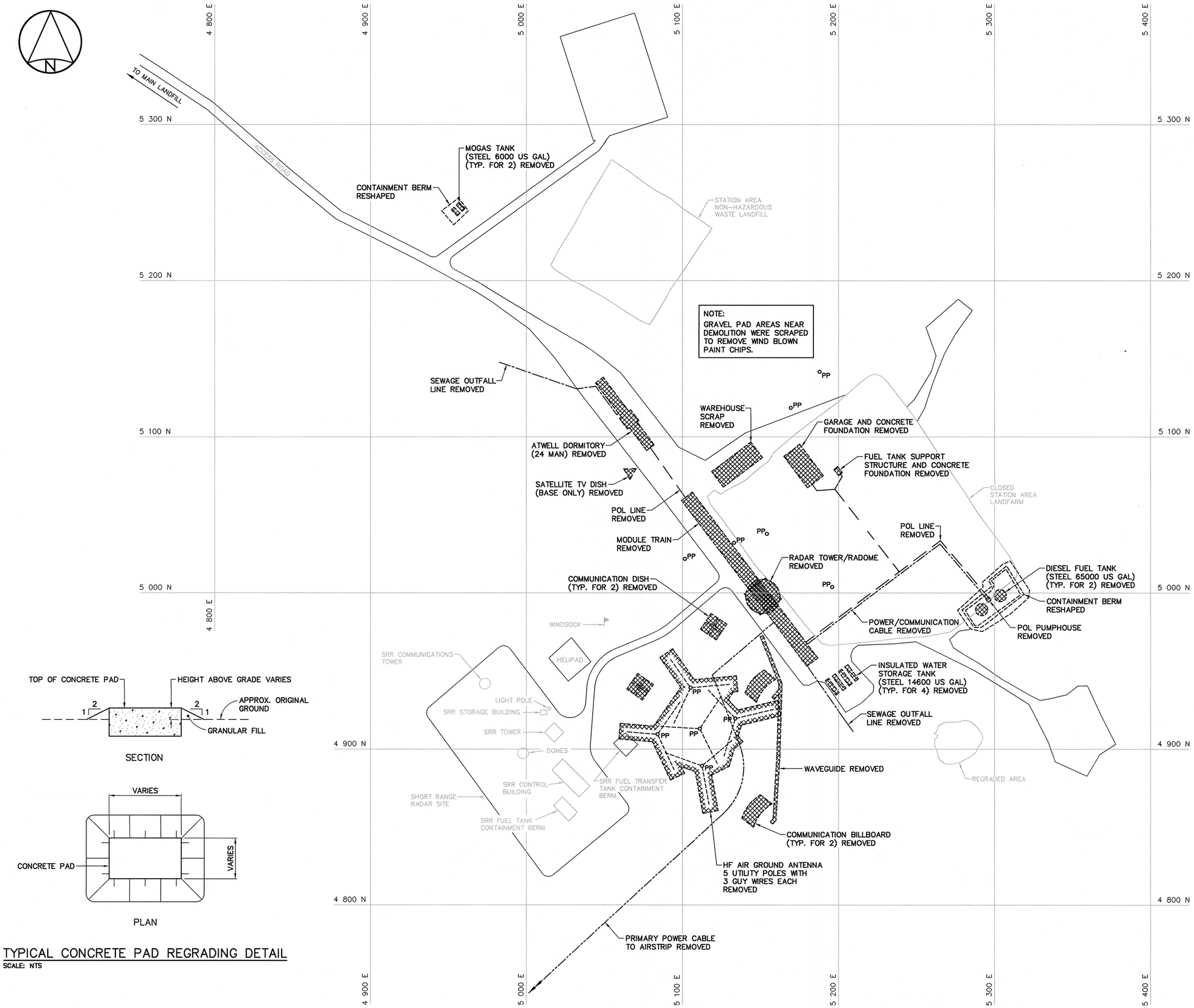
TRADE – METIER: SITING
DATE: 2003–03–31

SUBJECT – SUJET
MISCELLANEOUS DETAILS
SHEET 2

PRODUCTION		CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H–B233/1–9101–125

Canada



TYPICAL CONCRETE PAD REGRADING DETAIL

SCALE: NTS

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ALL STRUCTURES DESIGNATED FOR DEMOLITION WERE DEMOLISHED TO TOP OF CONCRETE FOUNDATIONS UNLESS NOTED OTHERWISE.
3. ALL ELECTRICAL CABLES AND POL LINES DESIGNATED FOR DEMOLITION WERE REMOVED.
4. ALL CONCRETE PADS REMAINING WERE REGRADED, AS PER TYPICAL DETAIL, ON THIS DRAWING.
5. ALL POLES, INCLUDING GUY WIRES, WERE REMOVED UNLESS NOTED OTHERWISE.
6. ALL SHORT RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL. THESE INCLUDE BUILDINGS, STRUCTURES, ELECTRICAL POWER CABLES, FUEL STORAGE TANKS AND PIPELINES NOT SCHEDULED FOR DEMOLITION.

Legend:

- DEMOLISHED
- PP UTILITY POLE REMOVED

No.	DATE	REVISION / REVISION	APPR.
2	13-03-25	AS-BUILT DRAWING	RRM
1	08-01-31	AS-BUILT DRAWING	BWF

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Date MAR 25/13
PERMIT NUMBER: P639
NWT/NU Association of Professional Engineers and Geoscientists

Mar.25/13

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SCALE – ECHELLE 20 10 0 20 40 60m

PROJECT – PROJET
FOX–5 BROUGHTON ISLAND

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TRADE – METIER: STRUCTURAL
DATE: 2003–03–31

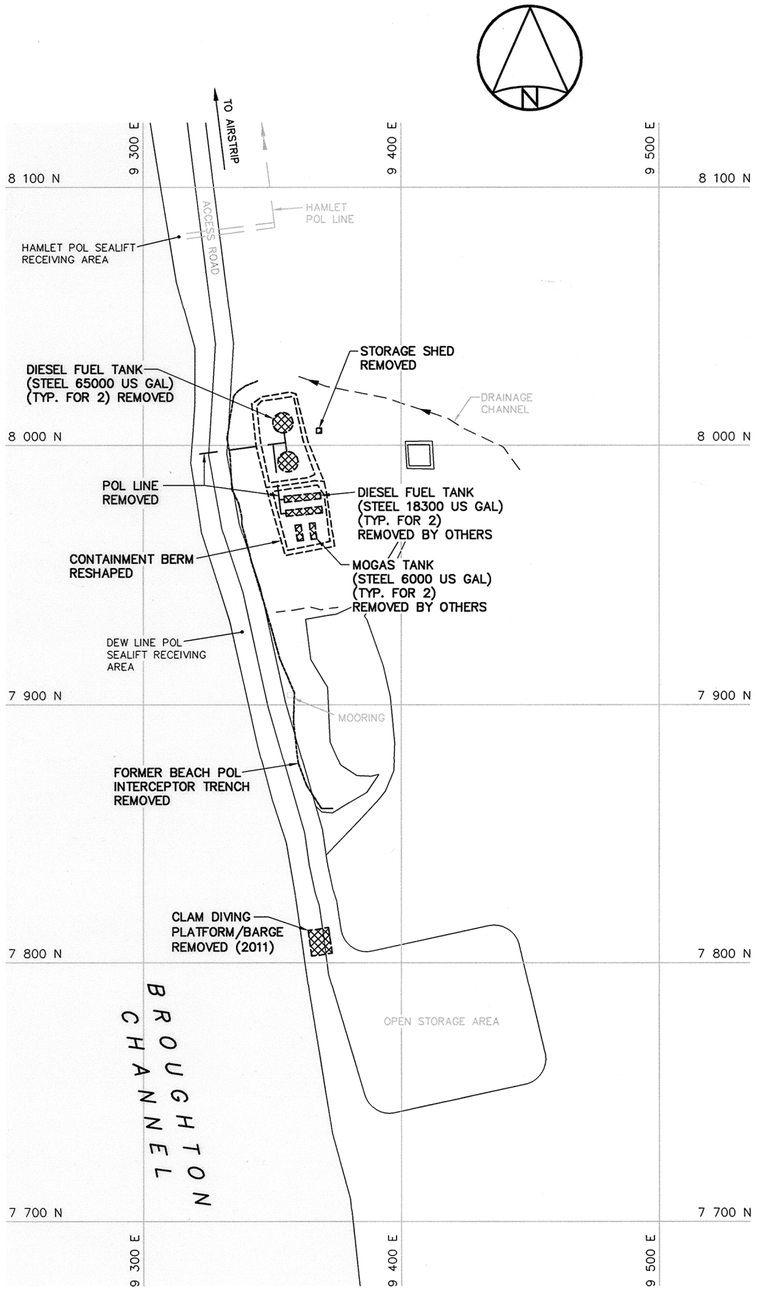
SUBJECT – SUJET

STATION AREA
DEMOLITION SITE PLAN

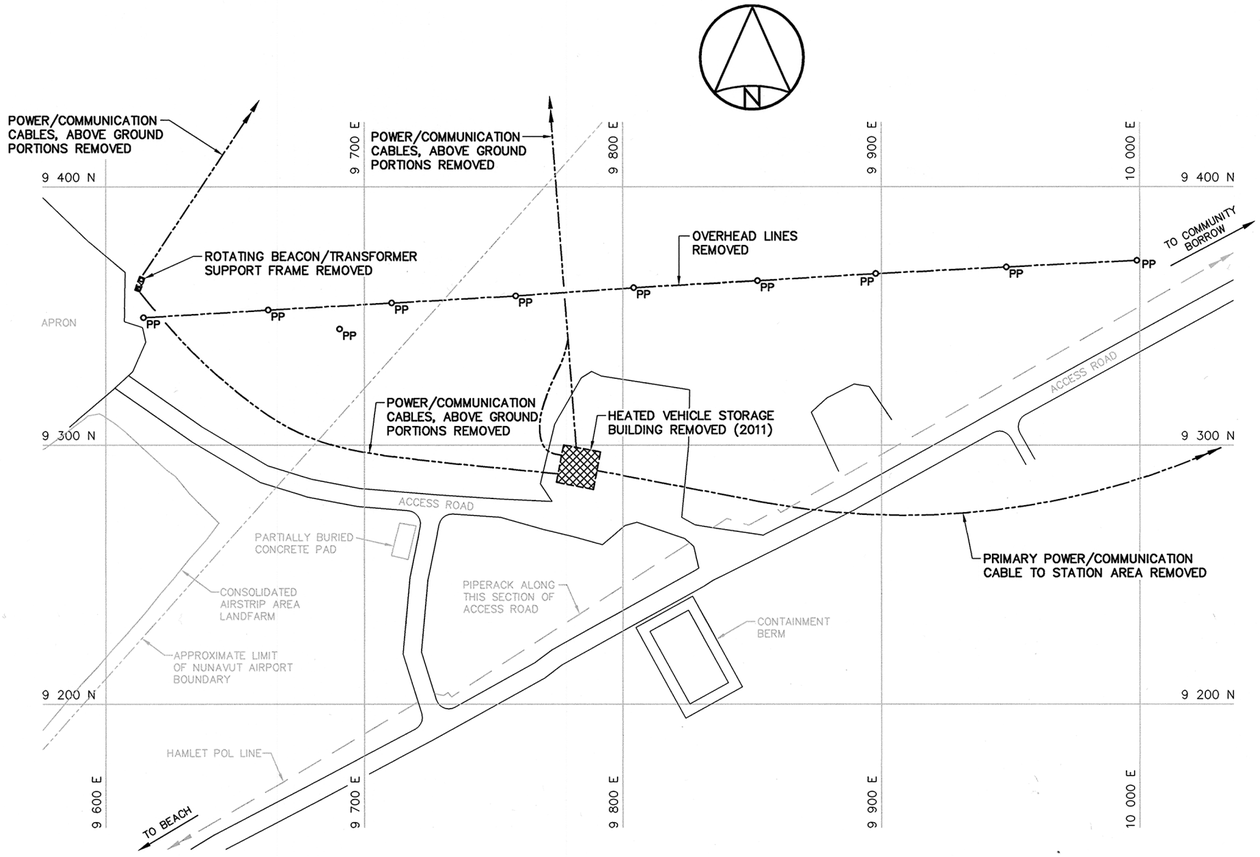
PRODUCTION	CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE CAE		SECT HD CHEF SECT
CHECKED VERIFIE RRM		DES MGR GEST CONCEPT
COORDINATION SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H–B233/1–9101–201

Canada



BEACH AREA



HEATED VEHICLE STORAGE AREA

National Defence / Défense nationale

Headquarters
Quartier général

General Notes:

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ALL STRUCTURES DESIGNATED FOR DEMOLITION WERE DEMOLISHED TO TOP OF CONCRETE FOUNDATIONS UNLESS NOTED OTHERWISE.
3. ALL ELECTRICAL CABLES AND POL LINES DESIGNATED FOR DEMOLITION WERE REMOVED.
4. ALL CONCRETE PADS REMAINING WERE REGRADED, AS PER TYPICAL DETAIL, SEE DWG. H-B233/1-9101-201.
5. ALL POLES, INCLUDING GUY WIRES, WERE REMOVED UNLESS NOTED OTHERWISE.
6. ALL SHORT RANGE RADAR (SRR) FACILITIES WERE OPERATIONAL. THESE INCLUDE BUILDINGS, STRUCTURES, ELECTRICAL POWER CABLES, FUEL STORAGE TANKS AND PIPELINES NOT SCHEDULED FOR DEMOLITION.

Legend:

- DEMOLISHED
- PP — UTILITY POLE REMOVED
- BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.
2	13-03-25	AS-BUILT DRAWING		RRM
1	08-01-31	AS-BUILT DRAWING		BWF

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SCALE - ECHELLE 20 10 0 20 40 60m

PROJECT - PROJET
FOX-5 BROUGHTON ISLAND

DEW LINE CLEAN UP

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TRADE - METIER	DATE
STRUCTURAL	2003-03-31

SUBJECT - SUJET
BEACH AREA AND
HEATED VEHICLE STORAGE AREA
DEMOLITION SITE PLANS

PRODUCTION		CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE	BWF		DES OFF AGENT CONCEPT
DRAWN DESSINE	CAE		SECT HD CHEF SECT
CHECKED VERIFIE	RRM		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED - REVU	

DWG. NO. - DESSIN NO.
H-B233/1-9101-202

Canada