Appendix I

Drawings

National Defence / Défense nationale

DEW LINE CLEAN UP PROJECT

DRAWING INDEX

DRAWING No.	TITLE	DRAWING No.	TITLE	DRAWING No.	TITLE
SITING		SITING		SITING	
H-S123/2-9101-101	OVERALL SITE PLAN	H-S123/2-9101-113	NON-HAZARDOUS WASTE LANDFILL CROSS SECTION AND DETAIL	H-S123/2-9101-125	CONTAMINATED AREAS SECTION AND DETAILS SH. 5
H-S123/2-9101-102	PROJECT LAYOUT BEACH AREA SH. 1	H-S123/2-9101-114	TIER II DISPOSAL FACILITY KEY TRENCH EXCAVATION PLAN & GRADING/INSTRUMENTATION PLAN	H-S123/2-9101-126	MISCELLANEOUS DETAILS SH. 1
H-S123/2-9101-103	PROJECT LAYOUT BEACH ROAD SH. 2	H-S123/2-9101-115	TIER II DISPOSAL FACILITY CROSS SECTION AND DETAIL	H-S123/2-9101-127	MISCELLANEOUS DETAILS SH. 2
H-S123/2-9101-104	PROJECT LAYOUT STATION AREA SH. 3	H-S123/2-9101-116	LANDFARM CROSS SECTION	STRUCTURAL	
H-S123/2-9101-105	PROJECT LAYOUT WATER SUPPLY LAKES SH. 4	H-S123/2-9101-117	USAF LANDFILL KEY TRENCH EXCAVATION PLAN & GRADING/INSTRUMENTATION PLAN	H-S123/2-9101-201	STATION HANGAR AND BEACH AREAS DEMOLITION SITE PLANS
H-S123/2-9101-106	BEACH AREA SITE PLAN	H-S123/2-9101-118	USAF LANDFILL KEY TRENCH CENTRELINE PROFILE	H-S123/2-9101-202	STORAGE SHED AND FUEL TANK PLANS, SECTION AND ELEVATION
H-S123/2-9101-107	STATION AREA-NORTH SITE PLAN	H-S123/2-9101-119	USAF LANDFILL CROSS SECTION SH. 1	H-S123/2-9101-203	COMMUNICATION DISH ELEVATIONS
H-S123/2-9101-108	STATION AREA SITE PLAN	H-S123/2-9101-120	USAF LANDFILL CROSS SECTION SH. 2	H-S123/2-9101-204	COMMUNICATION BILLBOARD AND FEEDHORN PLAN, SECTION AND ELEVATIONS
H-S123/2-9101-109	STATION AREA-SOUTH SITE PLAN	H-S123/2-9101-121	CONTAMINATED AREAS SECTION AND DETAILS SH. 1		
H-S123/2-9101-110	NORTHEAST LANDFILL AREA SITE PLAN	H-S123/2-9101-122	CONTAMINATED AREAS SECTION AND DETAILS SH. 2		
H-S123/2-9101-111	HANGAR AREA SITE PLAN	H-S123/2-9101-123	CONTAMINATED AREAS SECTION AND DETAILS SH. 3		
H-S123/2-9101-112	USAF LANDFILL AND NWS LANDFILL AREA SITE PLAN	H-S123/2-9101-124	CONTAMINATED AREAS SECTION AND DETAILS SH. 4		

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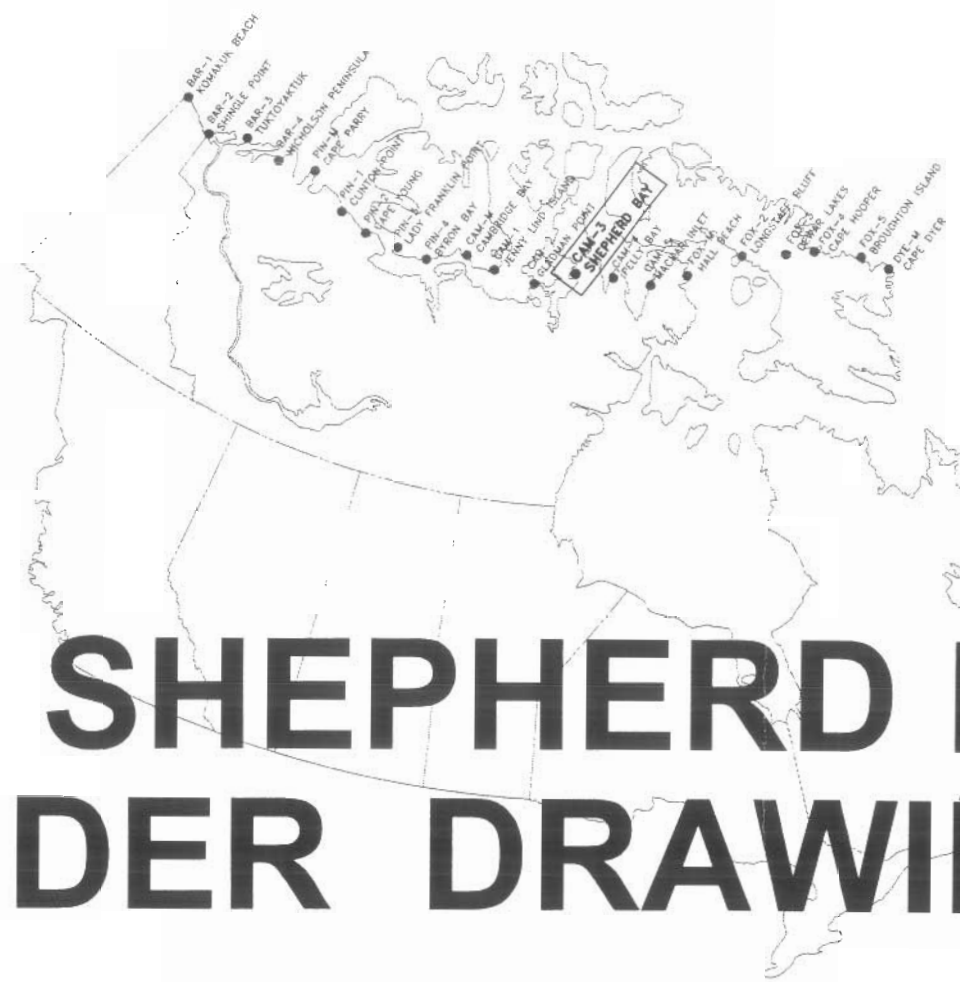
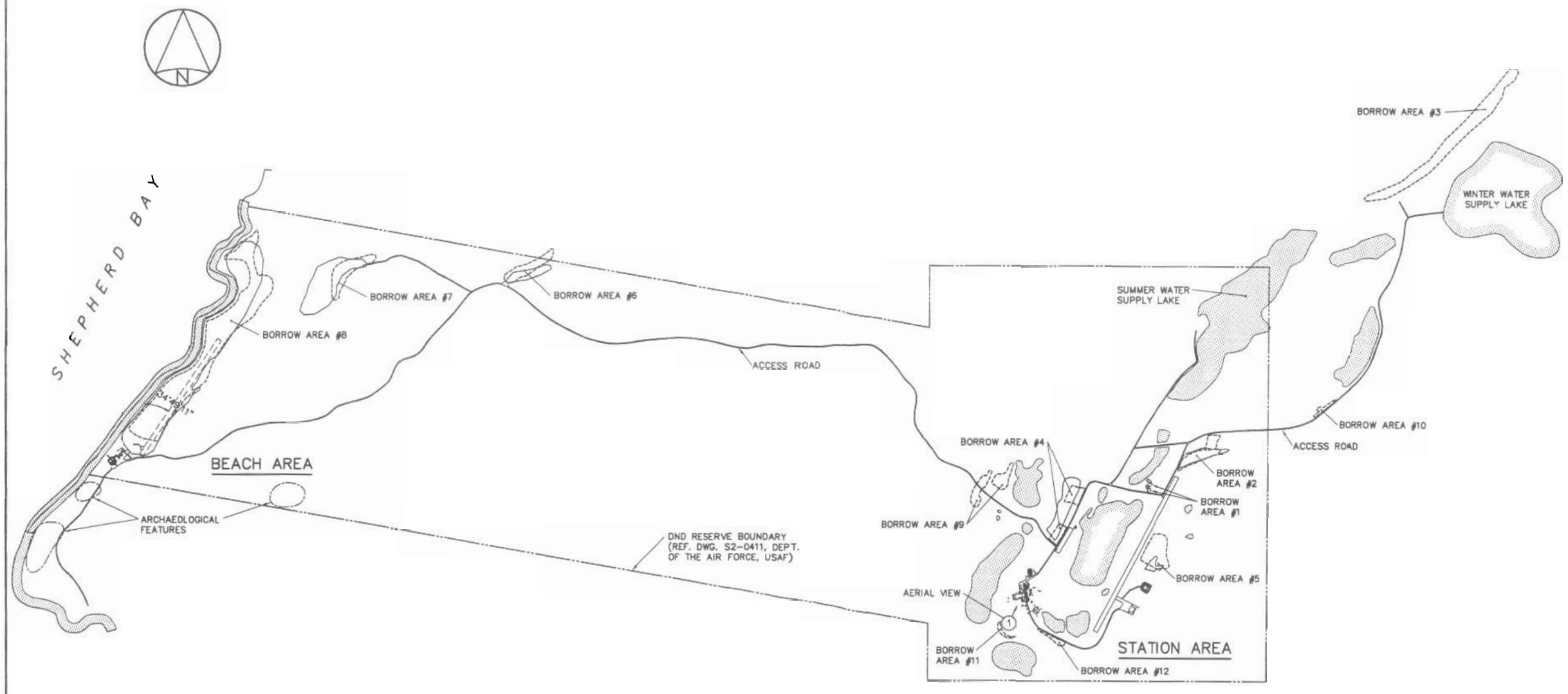


CAM-3 SHEPHERD BAY TENDER DRAWINGS

UMA Engineering Ltd.
The SGE Group Inc.

DRAFT

JUNE, 2004



National Défense
Defence nationale

Headquarters
Quartier général

General Notes:

1. ARCHAEOLOGICAL FEATURES LOCATED AS PER ENVIRONMENTAL CLEAN UP STUDY OF 21 DEW LINE SITES IN CANADA, VOL. 15, UMA 1991.

Legend:

1 PHOTOGRAPHIC VIEWPOINT

BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.

DRAFT

UMA SNC

SCALE – ECHELLE 300 150 0 300 600 900m

PROJECT – PROJET
CAM–3 SHEPHERD BAY

DEW LINE CLEAN UP

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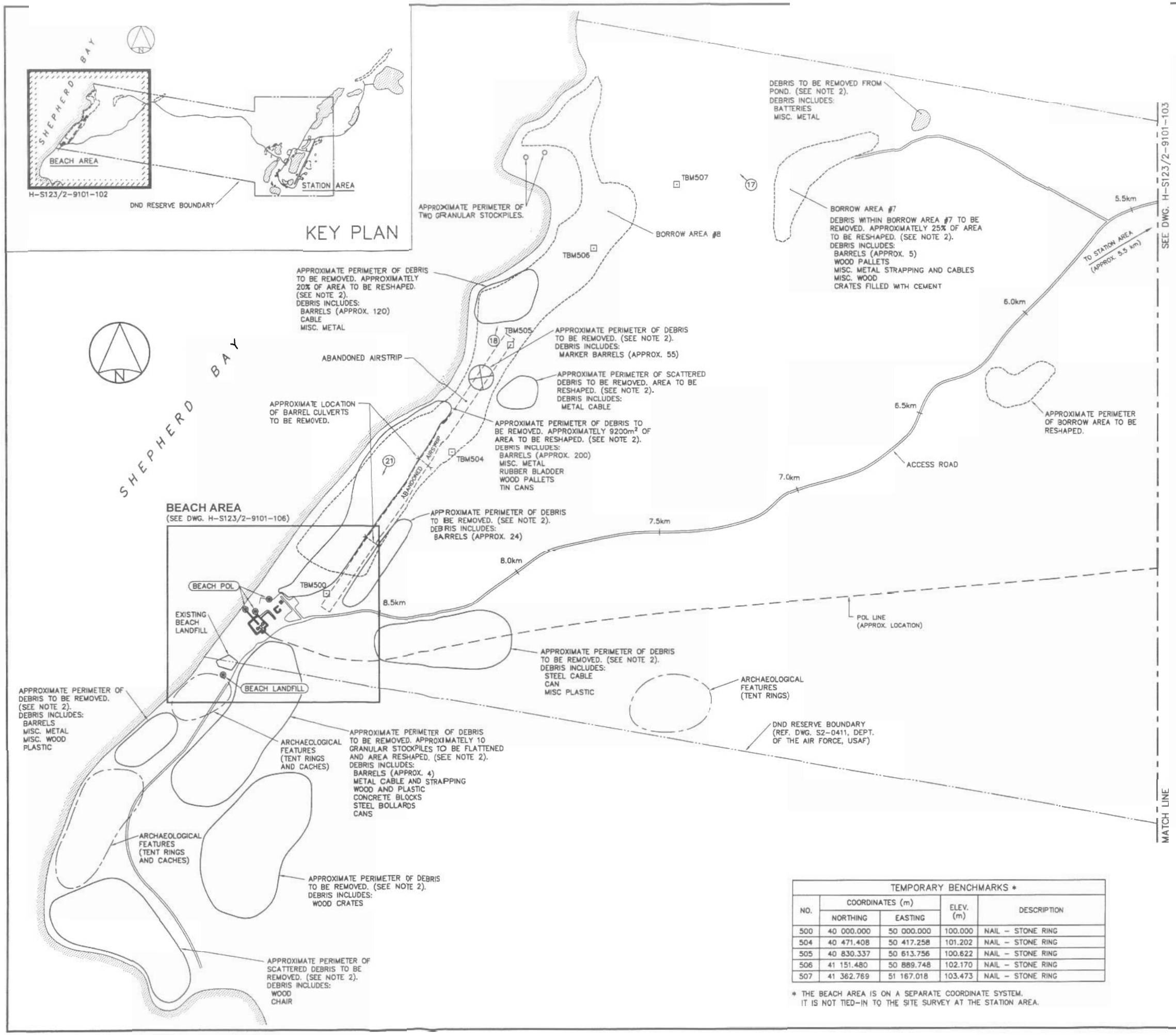
TRADE – METIER: SITING
DATE: 2004–06

SUBJECT – SUJET
OVERALL SITE PLAN

PRODUCTION		CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE	ANP/RRM		DES OFF AGENT CONCEPT
DRAWN DESSINE	RN/LJV		SECT HD CHEF SECT
CHECKED VERIFIE	KMS		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H–S123/2–9101–101

Canada



TEMPORARY BENCHMARKS *				
NO.	COORDINATES (m)		ELEV. (m)	DESCRIPTION
	NORTHING	EASTING		
500	40 000.000	50 000.000	100.000	NAIL – STONE RING
504	40 471.408	50 417.258	101.202	NAIL – STONE RING
505	40 830.337	50 613.756	100.622	NAIL – STONE RING
506	41 151.480	50 889.748	102.170	NAIL – STONE RING
507	41 362.769	51 167.018	103.473	NAIL – STONE RING

* THE BEACH AREA IS ON A SEPARATE COORDINATE SYSTEM.
IT IS NOT TIED-IN TO THE SITE SURVEY AT THE STATION AREA.

National Défense
Defence nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO ASSUMED ELEVATION OF 100.00m AT TBM 500.
2. ALL NON-HAZARDOUS DEBRIS WITHIN PLAN AREA TO BE PLACED IN NON-HAZARDOUS WASTE LANDFILL.
3. HORIZONTAL CONTROL REFERENCED TO BEACH AREA TEMPORARY BENCHMARKS
4. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
5. ALL LONG RANGE RADAR (LRR) FACILITIES ARE CURRENTLY OPERATIONAL AND ARE NOT TO BE DISTURBED. SEE DWG. H-S123/2-9101-201 FOR ADDITIONAL DETAILS.
6. ARCHAEOLOGICAL FEATURES LOCATED AS PER ENVIRONMENTAL CLEAN UP STUDY OF 21 DEW LINE SITES IN CANADA, VOL. 15, UMA 1991.

Legend:

- TBM3 — TEMPORARY BENCHMARK
- CONTAMINATED AREA
- 1 — PHOTOGRAPHIC VIEWPOINT
- BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.

DRAFT

UMA SNC

SCALE – ECHELLE 100 50 0 100 200 300m

PROJECT – PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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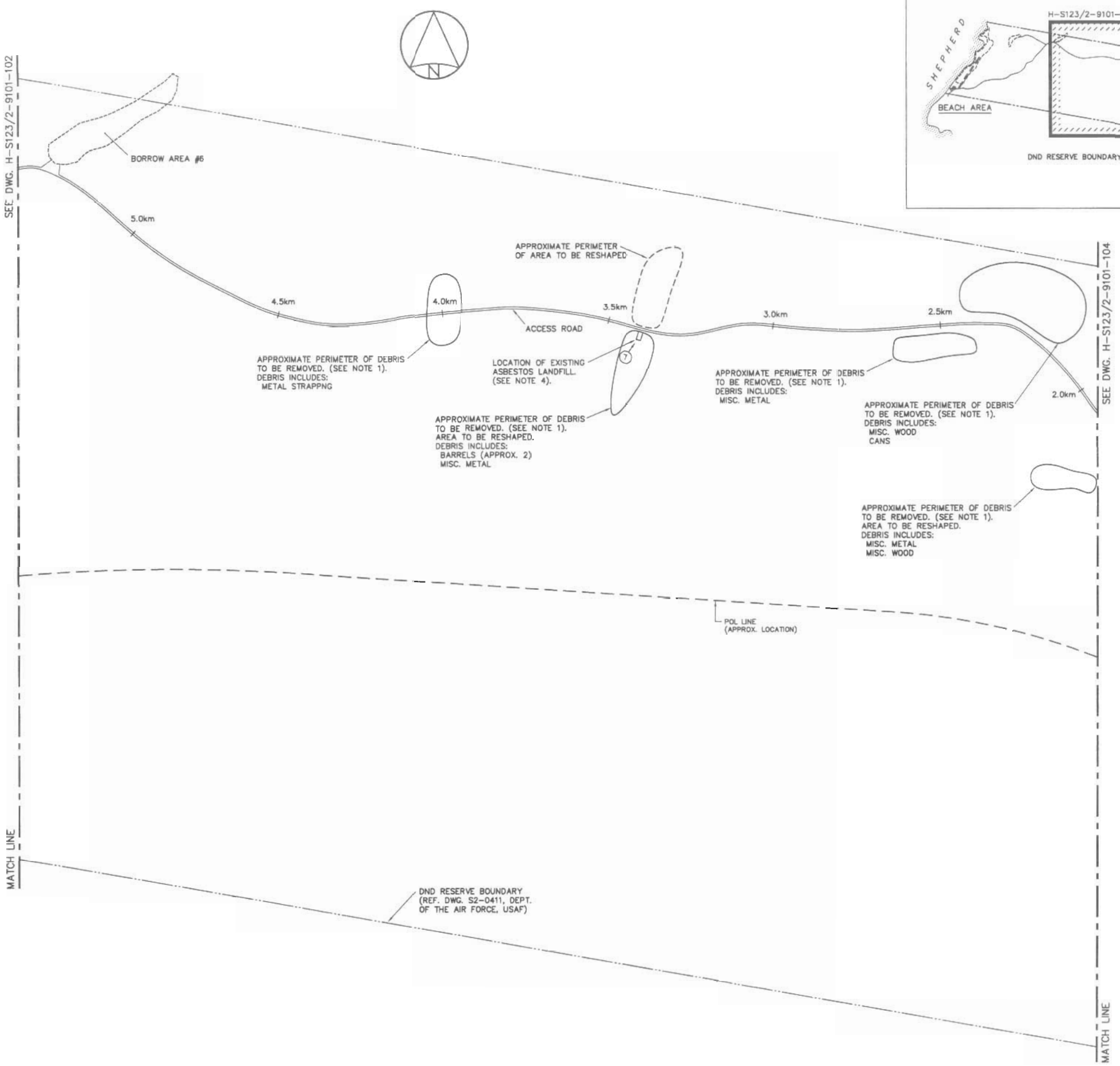
TRADE – METIER: SITING
DATE: 2004-06

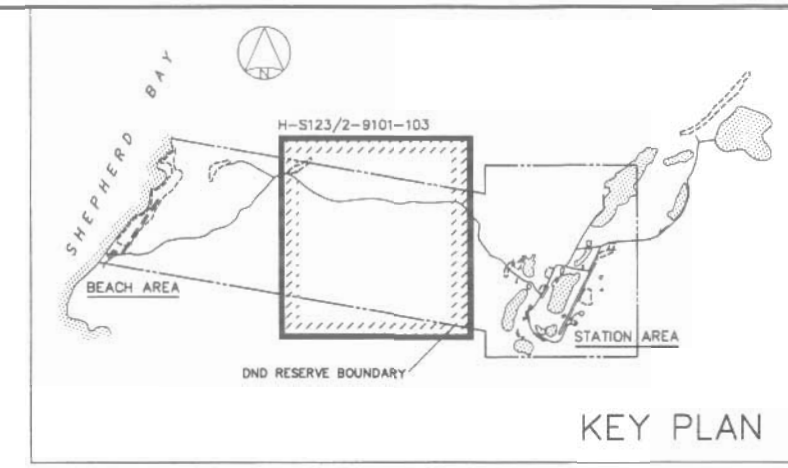
SUBJECT – SUJET
PROJECT LAYOUT
BEACH AREA
SH. 1

PRODUCTION	CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE ANP/RRM		DES OFF AGENT CONCEPT
DRAWN DESSINE RN/LJV		SECT HD CHIEF SECT
CHECKED VERIFIE KMS		DES MGR GEST CONCEPT
COORDINATION SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H-S123/2-9101-102

Canada





National Défense
Defence nationale

Headquarters
Quartier général

General Notes:

1. ALL NON-HAZARDOUS DEBRIS WITHIN PLAN AREA TO BE PLACED IN NON-HAZARDOUS WASTE LANDFILL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
3. ALL LONG RANGE RADAR (LRR) FACILITIES ARE CURRENTLY OPERATIONAL AND ARE NOT TO BE DISTURBED. SEE DWG. H-S123/2-9101-201 FOR ADDITIONAL DETAILS.
4. EXISTING ASBESTOS LANDFILL TO BE REGRADED WITH MINIMUM 0.5m OF TYPE 2 GRANULAR FILL TO MATCH SURROUNDING TERRAIN. AREA TO BE REGRADED APPROXIMATELY 500m^2.

Legend:

(1) PHOTOGRAPHIC VIEWPOINT

No.	DATE	REVISION	REVISION	APPR.

DRAFT

SCALE - ECHELLE 100 50 0 100 200 300m

PROJECT - PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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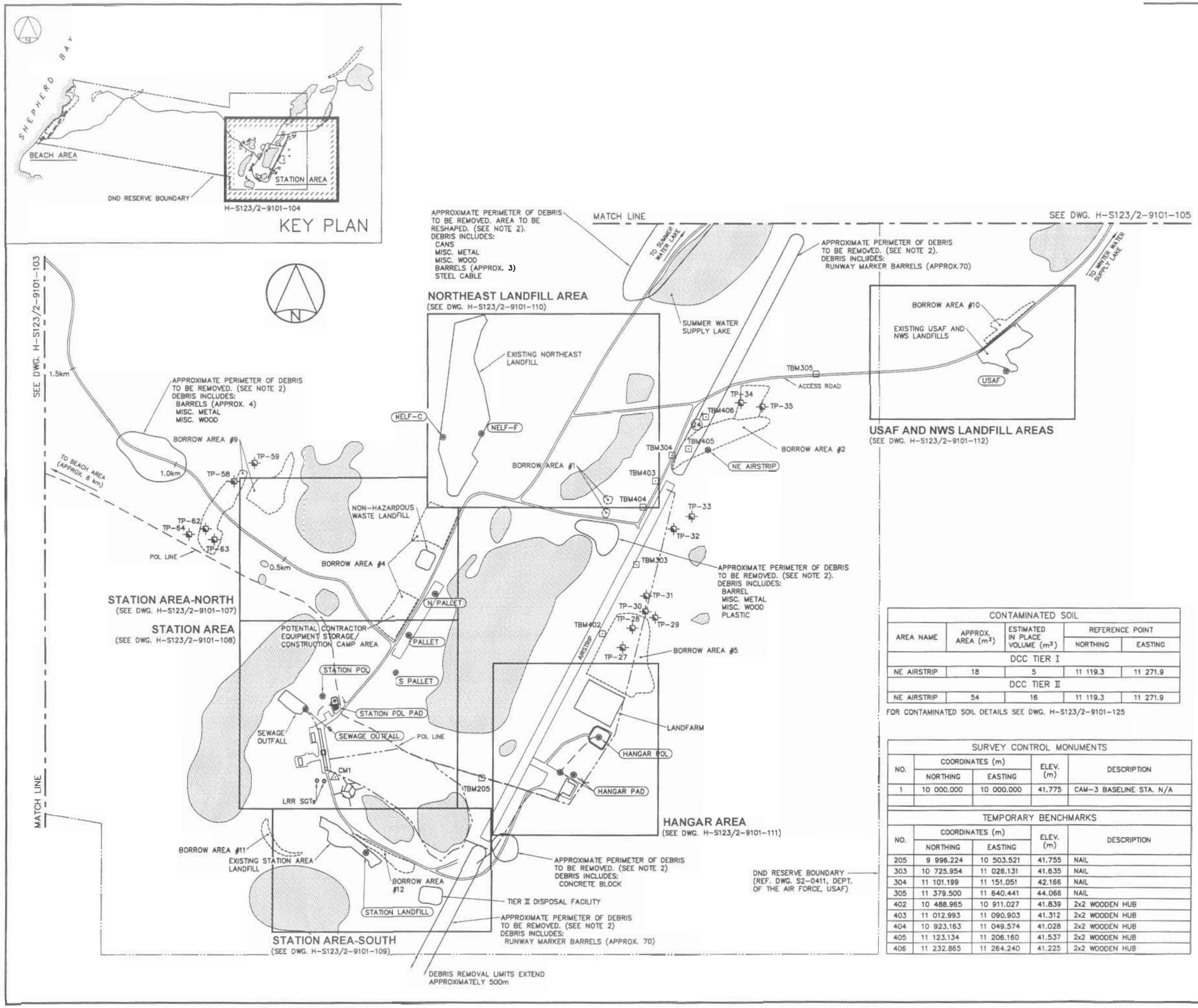
TRADE - METIER: SITING
DATE: 2004-06

SUBJECT - SUJET
PROJECT LAYOUT SH. 2
BEACH ROAD

PRODUCTION	CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE ANP/RRM		DES OFF AGENT CONCEPT
DRAWN DESSINE RN/LJV		SECT HD CHIEF SECT
CHECKED VERIFIE KMS		DES MGR GEST CONCEPT
COORDINATION SMS	REVIEWED - REVU	

DWG. NO. - DESSIN NO.
H-S123/2-9101-103

Canada



CONTAMINATED SOIL				
AREA NAME	APPROX. AREA (m^2)	ESTIMATED IN PLACE VOLUME (m^3)	REFERENCE POINT	
			NORTHING	EASTING
DCC TIER I				
NE AIRSTRIP	18	5	11 119.3	11 271.9
DCC TIER II				
NE AIRSTRIP	54	16	11 119.3	11 271.9

FOR CONTAMINATED SOIL DETAILS SEE DWG. H-S123/2-9101-125

SURVEY CONTROL MONUMENTS				
NO.	COORDINATES (m)		ELEV. (m)	DESCRIPTION
	NORTHING	EASTING		
1	10 000.000	10 000.000	41.775	CAM-3 BASELINE STA. N/A

TEMPORARY BENCHMARKS				
NO.	COORDINATES (m)		ELEV. (m)	DESCRIPTION
	NORTHING	EASTING		
205	9 996.224	10 503.521	41.755	NAIL
303	10 725.954	11 026.131	41.635	NAIL
304	11 101.199	11 151.051	42.166	NAIL
305	11 379.500	11 640.441	44.066	NAIL
402	10 488.965	10 911.027	41.839	2x2 WOODEN HUB
403	11 012.993	11 090.903	41.312	2x2 WOODEN HUB
404	10 923.163	11 049.574	41.028	2x2 WOODEN HUB
405	11 123.134	11 206.160	41.537	2x2 WOODEN HUB
406	11 232.865	11 264.240	41.225	2x2 WOODEN HUB

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Defence nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL. (REF. DWG. AAP-1, DEPT. OF THE AIR FORCE, USAF).
2. ALL NON-HAZARDOUS DEBRIS WITHIN PLAN AREA TO BE PLACED IN NON-HAZARDOUS WASTE LANDFILL.
3. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
4. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
5. ALL LONG RANGE RADAR (LRR) FACILITIES ARE CURRENTLY OPERATIONAL AND ARE NOT TO BE DISTURBED. SEE DWG. H-S123/2-9101-201 FOR ADDITIONAL DETAILS

Legend:

- CM1 — SURVEY CONTROL MONUMENT
- TBM3 — TEMPORARY BENCHMARK
- TEST PIT LOCATION (2000)
- CONTAMINATED SOIL AREA
- 1 — PHOTOGRAPHIC VIEWPOINT
- BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.

DRAFT

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SCALE – ECHELLE 100 50 0 100 200 300m

PROJECT – PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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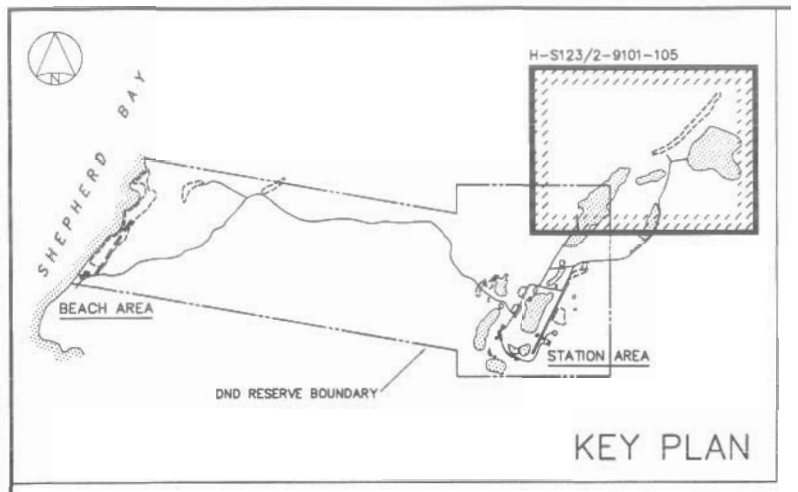
TRADE – METIER: SITING
DATE: 2004-06

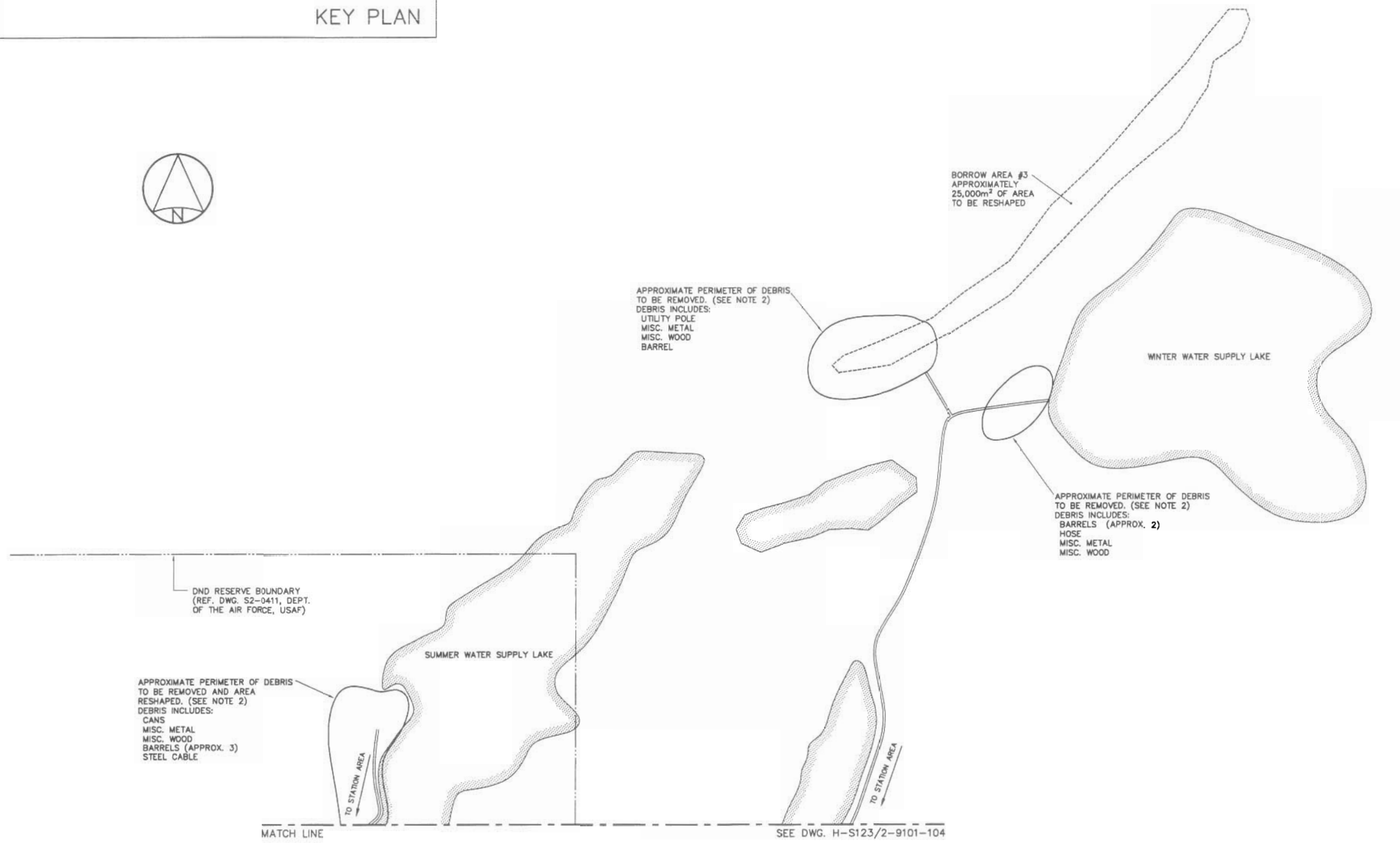
SUBJECT – SUJET
PROJECT LAYOUT
STATION AREA
SH. 3

PRODUCTION	CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE ANP/RRM		DES OFF AGENT CONCEPT
DRAWN DESSINE RN/LJV		SECT HD CHIEF SECT
CHECKED VERIFIE KMS		DES MGR GEST CONCEPT
COORDINATION SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H-S123/2-9101-104

Canada





National Défense
Defence nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL. (REF. DWG. AAP-1, DEPT. OF THE AIR FORCE, USAF).
2. ALL NON-HAZARDOUS DEBRIS WITHIN PLAN AREA TO BE PLACED IN NON-HAZARDOUS WASTE LANDFILL.
3. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
4. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
5. ALL LONG RANGE RADAR (LRR) FACILITIES ARE CURRENTLY OPERATIONAL AND ARE NOT TO BE DISTURBED. SEE DWG. H-S123/2-9101-201 FOR ADDITIONAL DETAILS.

Legend:

BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.

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SCALE - ECHELLE 100 50 0 100 200 300m

PROJECT - PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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TRADE - METIER	DATE
SITING	2004-06

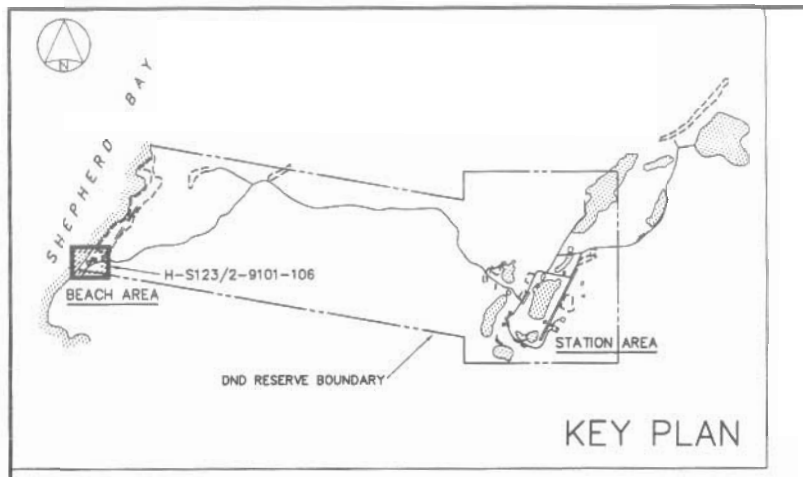
SUBJECT - SUJET

PROJECT LAYOUT SH. 4
WATER SUPPLY LAKES

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

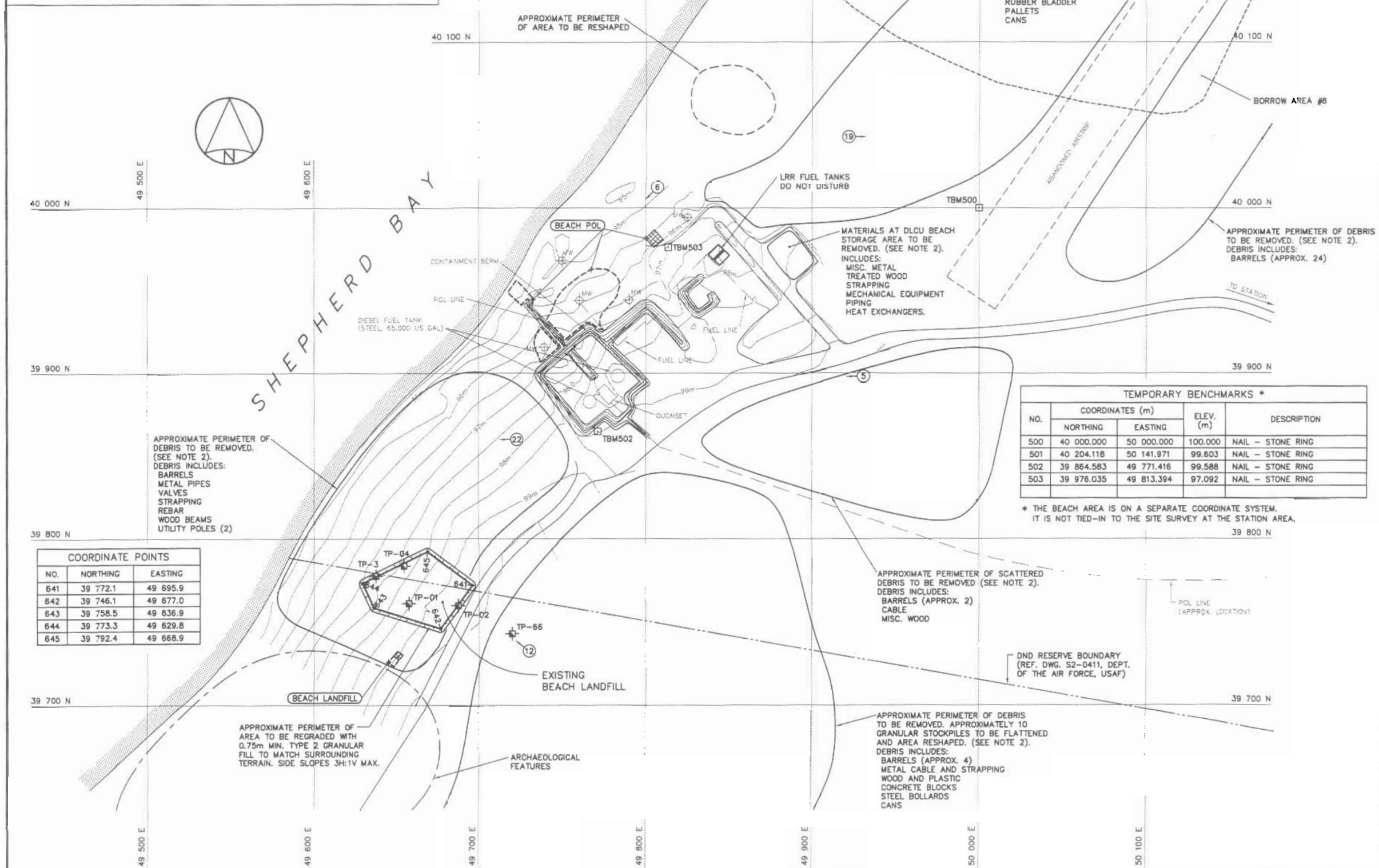
DWG. NO. - DESSIN NO.
H-S123/2-9101-105

Canada



CONTAMINATED SOIL				
AREA NAME	APPROX. AREA (m^2)	ESTIMATED IN PLACE VOLUME (m^3)	REFERENCE POINT	
			NORTHING	EASTING
TYPE A				
BEACH POL	66	18	39 981.5	49 799.8
BEACH LANDFILL	19	7	39 726.1	49 645.5
TYPE B				
BEACH POL	1355	1220	39 962.5	49 767.4
BEACH LANDFILL	25	25	39 726.1	49 645.5

FOR CONTAMINATED SOIL DETAILS SEE DWG. H-S123/2-9101-121



TEMPORARY BENCHMARKS *				
NO.	COORDINATES (m)		ELEV. (m)	DESCRIPTION
	NORTHING	EASTING		
500	40 000.000	50 000.000	100.000	NAIL – STONE RING
501	40 204.118	50 141.971	99.603	NAIL – STONE RING
502	39 864.583	49 771.416	99.588	NAIL – STONE RING
503	39 976.035	49 813.394	97.092	NAIL – STONE RING

* THE BEACH AREA IS ON A SEPARATE COORDINATE SYSTEM. IT IS NOT TIED-IN TO THE SITE SURVEY AT THE STATION AREA.

COORDINATE POINTS		
NO.	NORTHING	EASTING
641	39 772.1	49 695.9
642	39 746.1	49 677.0
643	39 758.5	49 636.9
644	39 773.3	49 629.8
645	39 792.4	49 668.9

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Quartier général

General Notes:

1. ALL COORDINATES AND ELEVATIONS AT THE BEACH AREA ARE BASED ON A SEPARATE COORDINATE SYSTEM. THEY ARE NOT TIED INTO THE STATION AREA SURVEYS.
2. ALL NON-HAZARDOUS DEBRIS WITHIN PLAN AREA TO BE PLACED IN NON-HAZARDOUS WASTE LANDFILL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. HORIZONTAL CONTROL REFERENCED TO BEACH AREA TEMPORARY BENCHMARKS
5. ALL LONG RANGE RADAR (LRR) FACILITIES ARE CURRENTLY OPERATIONAL AND ARE NOT TO BE DISTURBED. SEE DWG. H-S123/2-9101-201 FOR ADDITIONAL DETAILS.
6. ARCHAEOLOGICAL FEATURES LOCATED AS PER ENVIRONMENTAL CLEAN UP STUDY OF 21 DEW LINE SITES IN CANADA, VOL. 15, UMA 1991.

Legend:

- TBM1 TEMPORARY BENCHMARK
- TYPE A CONTAMINATED SOIL
- TYPE B CONTAMINATED SOIL
- TEST PIT LOCATION (2000)
- 250 COORDINATE POINT
- 11 PHOTOGRAPHIC VIEWPOINT
- MW EXISTING MONITORING WELL LOCATION
- BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.

DRAFT

uma SNC

SCALE – ECHELLE 20 10 0 20 40 60m

PROJECT – PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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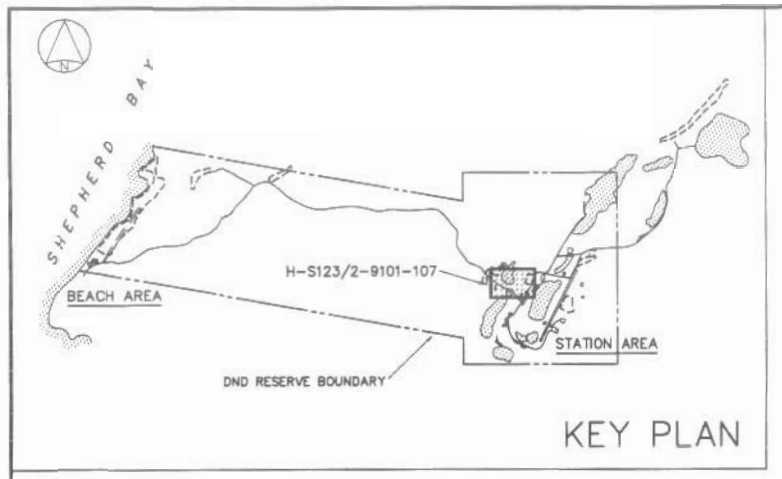
TRADE – METIER: SITING
DATE: 2004-06

SUBJECT – SUJET
BEACH AREA
SITE PLAN

PRODUCTION	CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE ANP/RRM		DES OFF AGENT CONCEPT
DRAWN DESSINE RN/LJV		SECT HD CHEF SECT
CHECKED VERIFIE KMS		DES MGR GEST CONCEPT
COORDINATION SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H-S123/2-9101-106

Canada



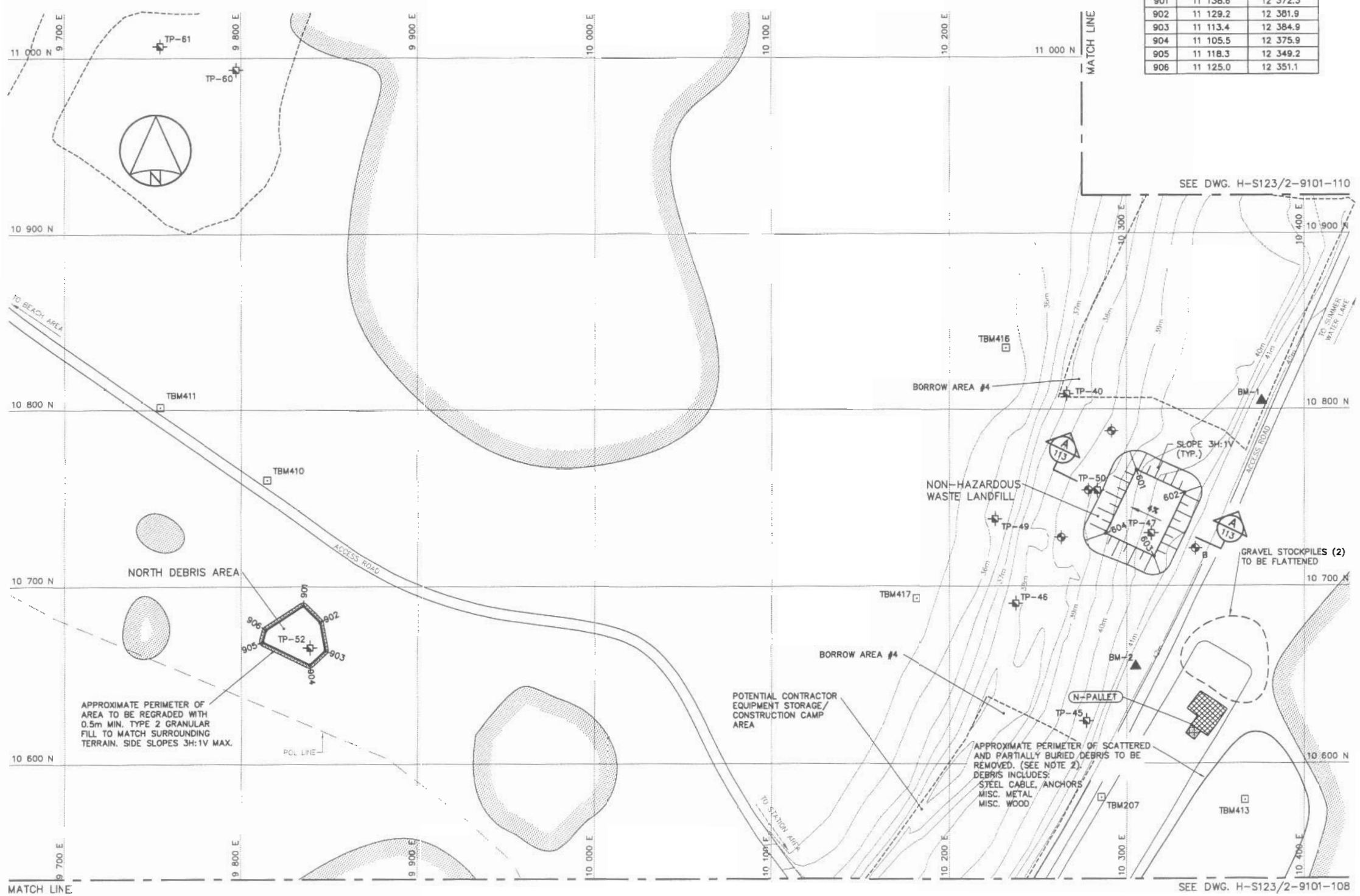
TEMPORARY BENCHMARKS				
NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
207	10 581.022	10 285.770	42.289	NAIL
410	10 760.243	9 814.731	35.116	50mm x 50mm WOODEN HUB
411	10 801.521	9 754.365	34.354	50mm x 50mm WOODEN HUB
413	10 579.369	10 366.261	41.228	50mm x 50mm WOODEN HUB
416	10 834.922	10 231.956	35.446	50mm x 50mm WOODEN HUB
417	10 692.947	10 182.413	35.898	50mm x 50mm WOODEN HUB

CONTAMINATED SOIL				
AREA NAME	APPROX. AREA (m^2)	ESTIMATED IN PLACE VOLUME (m^3)	REFERENCE POINT	
			NORTHING	EASTING
DCC TIER I / TYPE A				
N-PALLET	37	170	10 621.8	10 336.4
TYPE A				
N-PALLET	287	144	10 621.8	10 336.4

FOR CONTAMINATED SOIL DETAILS SEE DWG. H-S123/2-9101-124

COORDINATE POINTS NON-HAZARDOUS WASTE LANDFILL			
NO.	NORTHING	EASTING	ELEV.
601	10 765.7	10 305.5	43.2
602	10 752.7	10 332.6	44.4
603	10 716.7	10 315.3	44.4
604	10 729.7	10 288.2	43.2

COORDINATE POINTS NORTH DEBRIS AREA		
NO.	NORTHING	EASTING
901	11 138.6	12 372.3
902	11 129.2	12 381.9
903	11 113.4	12 384.9
904	11 105.5	12 375.9
905	11 118.3	12 349.2
906	11 125.0	12 351.1



National Défense
Defence nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. ALL NON-HAZARDOUS DEBRIS WITHIN PLAN AREA TO BE PLACED IN NON-HAZARDOUS WASTE LANDFILL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
5. VARIABLE SLOPE ON LANDFILL SURFACE PERMITTED. MINIMUM 2% – MAXIMUM 4%
6. FOR PERMANENT SURVEY CONTROL (BENCHMARK) INSTALLATION DETAILS, SEE DWG. H-S123/2-9101-127. LOCATIONS TO BE APPROVED BY THE ENGINEER.
7. FOR MONITORING WELL INSTALLATION DETAILS, SEE DWG. H-S123/2-9101-127. EXACT LOCATIONS TO BE FIELD DETERMINED BY THE ENGINEER.

Legend:

- TBM1 TEMPORARY BENCHMARK
- TYPE A CONTAMINATED SOIL
- DCC TIER I / TYPE A CONTAMINATED SOIL
- TEST PIT LOCATION (2000)
- 250 COORDINATE POINT
- (11) PHOTOGRAPHIC VIEWPOINT
- BODY OF WATER
- PROPOSED MONITORING WELL LOCATION (3)
- B PROPOSED BACKGROUND MONITORING WELL LOCATION (1)
- BM-1 PROPOSED PERMANENT BENCHMARK LOCATION (2). (SEE NOTE 6).

No.	DATE	REVISION	REVISION	APPR.

DRAFT

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SCALE – ECHELLE 20 10 0 20 40 60m

PROJECT – PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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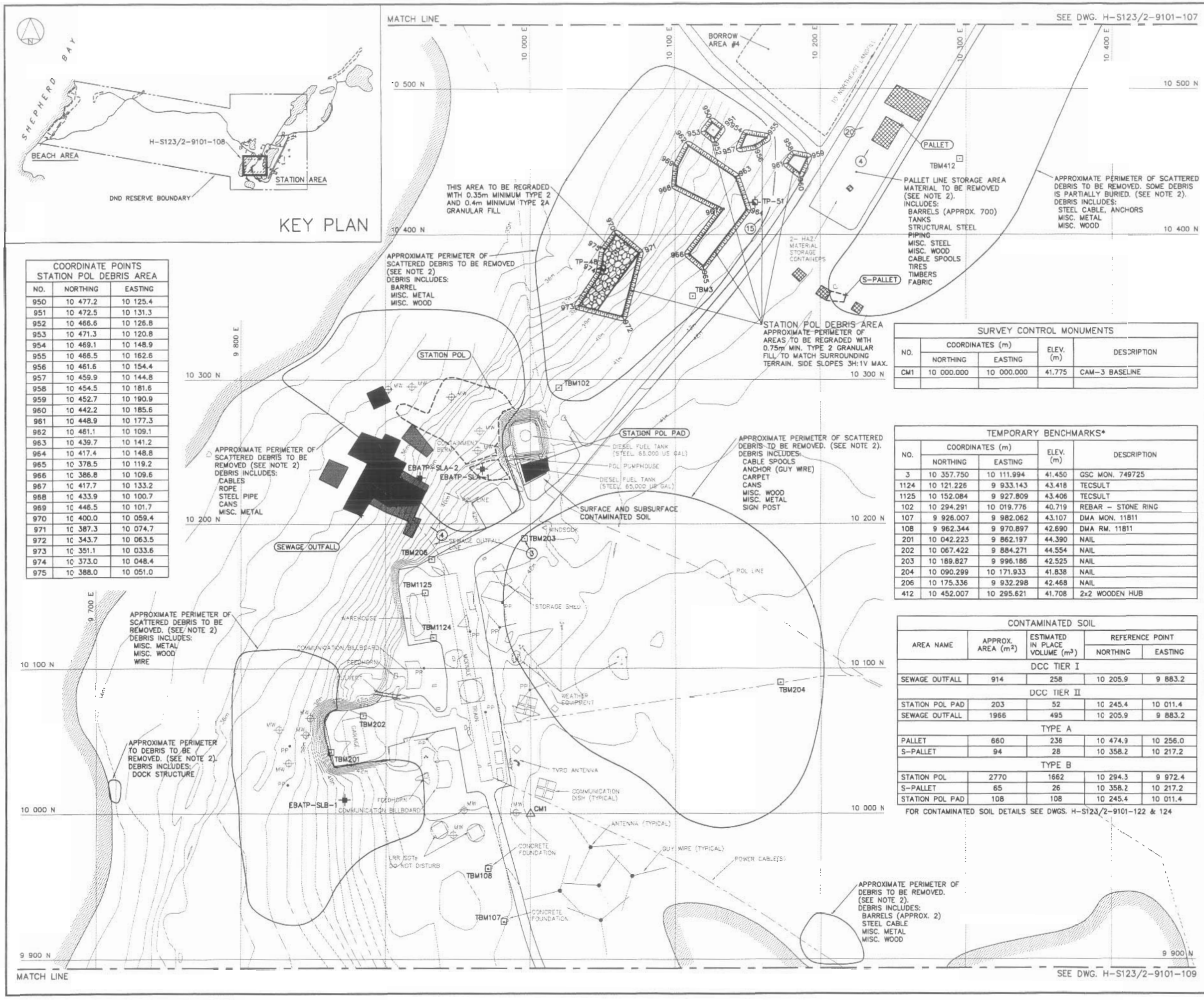
TRADE – METIER: SITING
DATE: 2004-06

SUBJECT – SUJET
STATION AREA–NORTH SITE PLAN

PRODUCTION		CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE	ANP/RRM		DES OFF AGENT CONCEPT
DRAWN DESSINE	RN/LJV		SECT HD CHEF SECT
CHECKED VERIFIE	KMS		DES MGR GEST CONCEPT
COORDINATION	SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H-S123/2-9101-107

Canada



COORDINATE POINTS STATION POL DEBRIS AREA		
NO.	NORTHING	EASTING
950	10 477.2	10 125.4
951	10 472.5	10 131.3
952	10 466.6	10 126.8
953	10 471.3	10 120.8
954	10 469.1	10 148.9
955	10 466.5	10 162.6
956	10 461.6	10 154.4
957	10 459.9	10 144.8
958	10 454.5	10 181.6
959	10 452.7	10 190.9
960	10 442.2	10 185.6
961	10 448.9	10 177.3
962	10 461.1	10 109.1
963	10 439.7	10 141.2
964	10 417.4	10 148.8
965	10 378.5	10 119.2
966	10 386.8	10 109.6
967	10 417.7	10 133.2
968	10 433.9	10 100.7
969	10 446.5	10 101.7
970	10 400.0	10 059.4
971	10 387.3	10 074.7
972	10 343.7	10 063.5
973	10 351.1	10 033.6
974	10 373.0	10 048.4
975	10 388.0	10 051.0

SURVEY CONTROL MONUMENTS				
NO.	COORDINATES (m)		ELEV. (m)	DESCRIPTION
	NORTHING	EASTING		
CM1	10 000.000	10 000.000	41.775	CAM-3 BASELINE

TEMPORARY BENCHMARKS*				
NO.	COORDINATES (m)		ELEV. (m)	DESCRIPTION
	NORTHING	EASTING		
3	10 357.750	10 111.994	41.450	GSC MON. 749725
1124	10 121.226	9 933.143	43.418	TECSULT
1125	10 152.084	9 927.809	43.406	TECSULT
102	10 294.291	10 019.776	40.719	REBAR – STONE RING
107	9 926.007	9 982.062	43.107	DMA MON. 11811
108	9 962.344	9 970.897	42.690	DMA RM. 11811
201	10 042.223	9 862.197	44.390	NAIL
202	10 067.422	9 884.271	44.554	NAIL
203	10 189.827	9 996.186	42.525	NAIL
204	10 090.299	10 171.933	41.838	NAIL
206	10 175.336	9 932.298	42.468	NAIL
412	10 452.007	10 295.621	41.708	2x2 WOODEN HUB

CONTAMINATED SOIL				
AREA NAME	APPROX. AREA (m^2)	ESTIMATED IN PLACE VOLUME (m^3)	REFERENCE POINT	
			NORTHING	EASTING
DCC TIER I				
SEWAGE OUTFALL	914	258	10 205.9	9 883.2
DCC TIER II				
STATION POL PAD	203	52	10 245.4	10 011.4
SEWAGE OUTFALL	1966	495	10 205.9	9 883.2
TYPE A				
PALLET	660	236	10 474.9	10 256.0
S-PALLET	94	28	10 358.2	10 217.2
TYPE B				
STATION POL	2770	1662	10 294.3	9 972.4
S-PALLET	65	26	10 358.2	10 217.2
STATION POL PAD	108	108	10 245.4	10 011.4

FOR CONTAMINATED SOIL DETAILS SEE DWGS. H-S123/2-9101-122 & 124

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General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. ALL NON-HAZARDOUS DEBRIS WITHIN PLAN AREA TO BE PLACED IN NON-HAZARDOUS WASTE LANDFILL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
5. ALL LONG RANGE RADAR (LRR) FACILITIES ARE CURRENTLY OPERATIONAL AND ARE NOT TO BE DISTURBED. SEE DWG. H-S123/2-9101-201 FOR ADDITIONAL DETAILS.

Legend:

- SURVEY CONTROL MONUMENT
- TEMPORARY BENCHMARK
- DCC TIER I CONTAMINATED SOIL
- DCC TIER II CONTAMINATED SOIL
- TYPE A CONTAMINATED SOIL
- TYPE B CONTAMINATED SOIL
- TEST PIT LOCATION (1992)
- TEST PIT LOCATION (2000)
- UTILITY POLE
- COORDINATE POINT
- PHOTOGRAPHIC VIEWPOINT
- EXISTING MONITORING WELL LOCATION
- BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.

DRAFT

uma SNC

SCALE – ÉCHELLE 20 10 0 20 40 60m

PROJECT – PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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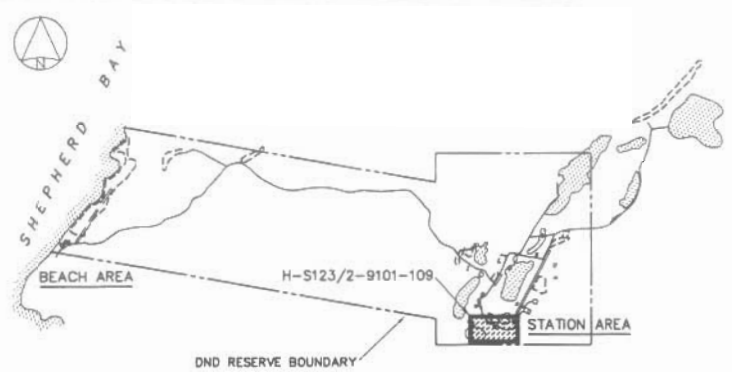
TRADE – METIER: SITING
DATE: 2004-06

SUBJECT – SUJET
STATION AREA
SITE PLAN

PRODUCTION	CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE ANP/RRM		DES OFF AGENT CONCEPT
DRAWN DESSINE RN/LJV		SECT HD CHIEF SECT
CHECKED VERIFIE KMS		DES MGR GEST CONCEPT
COORDINATION SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H-S123/2-9101-108

Canada



KEY PLAN

COORDINATE POINTS STATION AREA LANDFILL		
NO.	NORTHING	EASTING
651	9 821.0	9 877.4
652	9 823.4	9 890.8
653	9 815.4	9 897.3
654	9 805.1	9 900.8
655	9 792.0	9 900.5
656	9 792.1	9 880.4
657	9 807.2	9 872.3

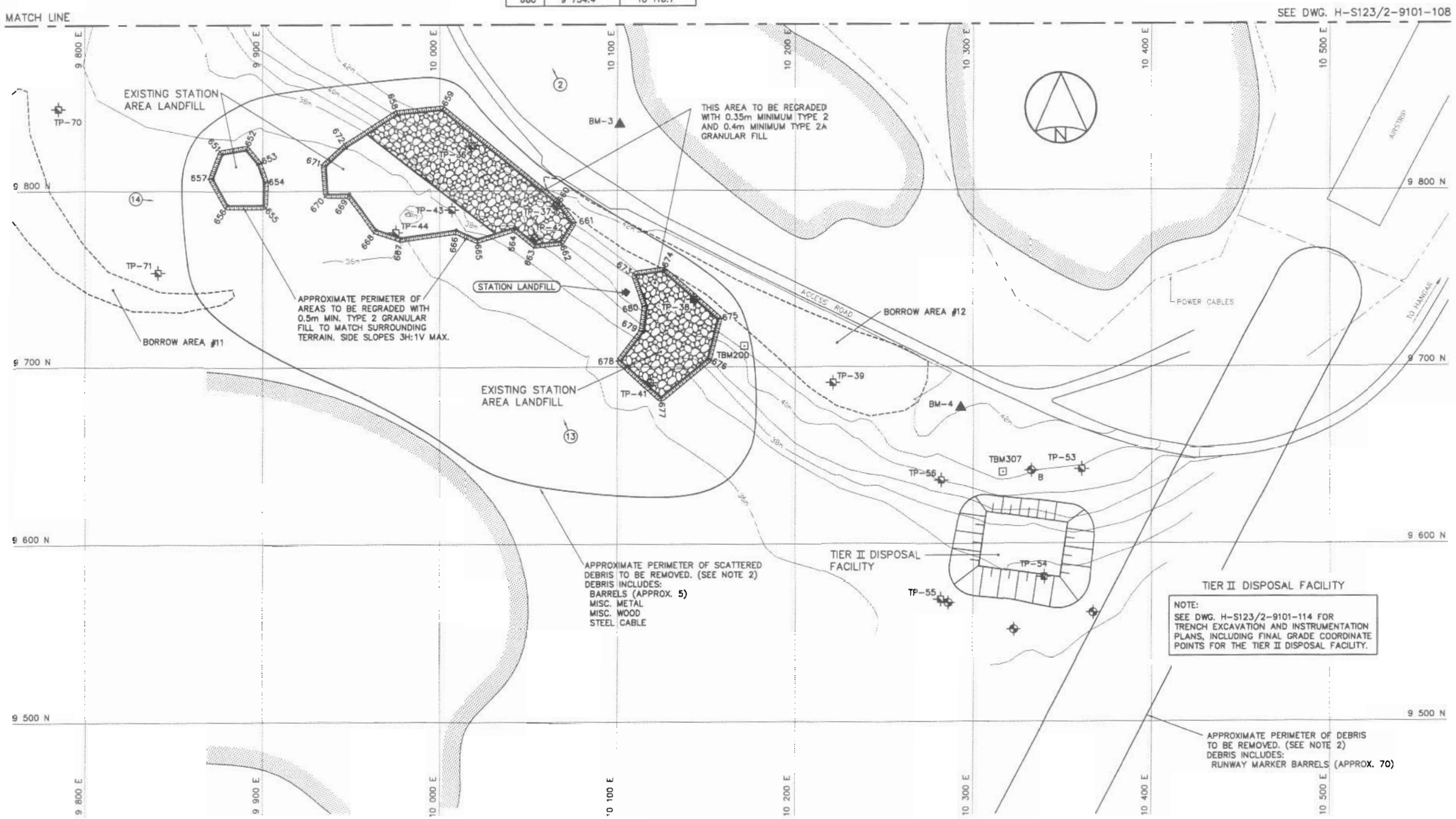
COORDINATE POINTS STATION AREA LANDFILL		
NO.	NORTHING	EASTING
673	9 752.0	10 110.6
674	9 754.2	10 125.5
675	9 727.0	10 156.2
676	9 704.6	10 150.5
677	9 682.8	10 124.5
678	9 703.5	10 102.3
679	9 719.6	10 114.7
680	9 734.4	10 116.7

COORDINATE POINTS STATION AREA LANDFILL		
NO.	NORTHING	EASTING
658	9 843.3	9 976.4
659	9 845.9	10 001.3
660	9 792.5	10 066.5
661	9 781.6	10 074.6
662	9 771.3	10 068.1
663	9 769.9	10 054.1
664	9 779.2	10 042.7
665	9 772.6	10 021.3
666	9 778.0	10 009.5
667	9 773.5	9 978.3
668	9 778.1	9 964.4
669	9 798.6	9 948.9
670	9 798.5	9 936.6
671	9 814.2	9 935.6
672	9 824.9	9 947.1

CONTAMINATED SOIL				
AREA NAME	APPROX. AREA (m^2)	ESTIMATED IN PLACE VOLUME (m^3)	REFERENCE POINT	
			NORTHING	EASTING
DCC TIER II				
STATION LANDFILL	13	4	9 742.1	10 102.9

FOR CONTAMINATED SOIL DETAILS SEE DWG. H-S123/2-9101-121

TEMPORARY BENCHMARKS				
NO.	COORDINATES (m)		ELEV. (m)	DESCRIPTION
	NORTHING	EASTING		
200	9 711.840	10 171.347	41.516	NAIL
307	9 640.341	10 316.602	41.308	NAIL



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General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. ALL NON-HAZARDOUS DEBRIS WITHIN PLAN AREA TO BE PLACED IN NON-HAZARDOUS WASTE LANDFILL.
3. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
4. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
5. ALL LONG RANGE RADAR (LRR) FACILITIES ARE CURRENTLY OPERATIONAL AND ARE NOT TO BE DISTURBED. SEE DWG. H-S123/2-9101-201 FOR ADDITIONAL DETAILS.
6. FOR MONITORING WELL INSTALLATION DETAILS SEE DWG. H-S123/2-9101-127. EXACT LOCATIONS TO BE FIELD DETERMINED BY THE ENGINEER.
7. FOR THERMISTOR INSTALLATION LOCATIONS SEE DWG. H-S123-2-9101-114.
8. FOR PERMANENT SURVEY CONTROL (BENCHMARK) INSTALLATION DETAILS, SEE DWG. H-S123/2-9101-127. LOCATIONS TO BE APPROVED BY THE ENGINEER.

Legend:

- TBM3 TEMPORARY BENCHMARK
- DCC TIER II CONTAMINATED SOIL
- TEST PIT LOCATION (1992)
- TEST PIT LOCATION (2000)
- 201 COORDINATE POINT
- 1 PHOTOGRAPHIC VIEWPOINT
- BODY OF WATER
- PROPOSED MONITORING WELL LOCATION (3)
- B PROPOSED BACKGROUND MONITORING WELL LOCATION (1)
- BM-3 PROPOSED PERMANENT BENCHMARK LOCATION (2). (SEE NOTE 8).

No.	DATE	REVISION	REVISION	APPR.

DRAFT

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SCALE - ECHELLE 20 10 0 20 40 60m

PROJECT - PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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TRADE - METIER	DATE
SITING	2004-06

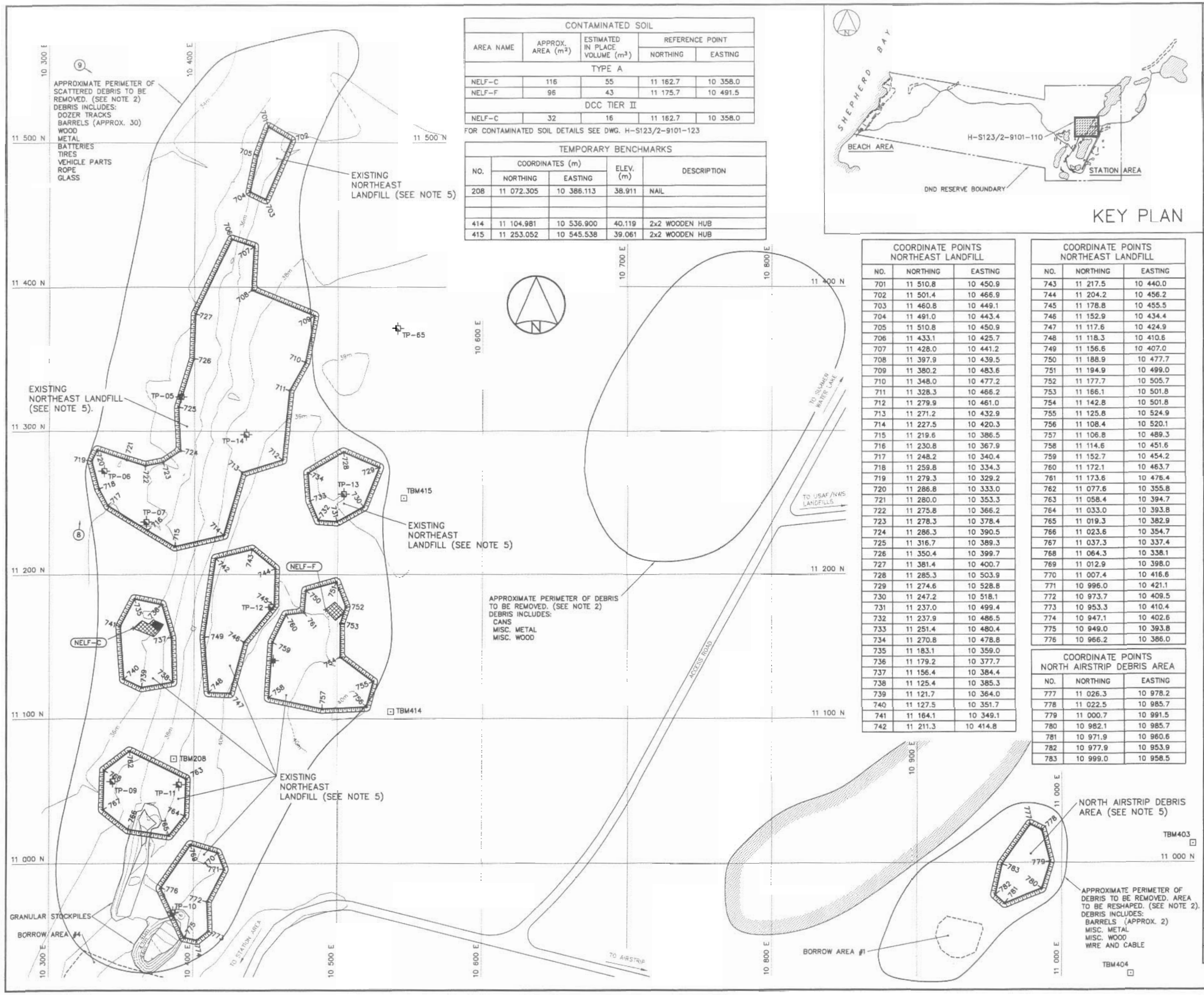
SUBJECT - SUJET

STATION AREA-SOUTH
SITE PLAN

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

DWG. NO. - DESSIN NO.
H-S123/2-9101-109

Canada



CONTAMINATED SOIL				
AREA NAME	APPROX. AREA (m^2)	ESTIMATED IN PLACE VOLUME (m^3)	REFERENCE POINT	
			NORTHING	EASTING
TYPE A				
NELF-C	116	55	11 162.7	10 358.0
NELF-F	96	43	11 175.7	10 491.5
DCC TIER II				
NELF-C	32	16	11 162.7	10 358.0

FOR CONTAMINATED SOIL DETAILS SEE DWG. H-S123/2-9101-123

TEMPORARY BENCHMARKS				
NO.	COORDINATES (m)		ELEV. (m)	DESCRIPTION
	NORTHING	EASTING		
208	11 072.305	10 386.113	38.911	NAIL
414	11 104.981	10 536.900	40.119	2x2 WOODEN HUB
415	11 253.052	10 545.538	39.061	2x2 WOODEN HUB

KEY PLAN

COORDINATE POINTS NORTHEAST LANDFILL		
NO.	NORTHING	EASTING
701	11 510.8	10 450.9
702	11 501.4	10 466.9
703	11 460.8	10 449.1
704	11 491.0	10 443.4
705	11 510.8	10 450.9
706	11 433.1	10 425.7
707	11 428.0	10 441.2
708	11 397.9	10 439.5
709	11 380.2	10 483.6
710	11 348.0	10 477.2
711	11 328.3	10 466.2
712	11 279.9	10 461.0
713	11 271.2	10 432.9
714	11 227.5	10 420.3
715	11 219.6	10 386.5
716	11 230.8	10 367.9
717	11 248.2	10 340.4
718	11 259.8	10 334.3
719	11 279.3	10 329.2
720	11 286.8	10 333.0
721	11 280.0	10 353.3
722	11 275.8	10 366.2
723	11 278.3	10 378.4
724	11 286.3	10 390.5
725	11 316.7	10 389.3
726	11 350.4	10 399.7
727	11 381.4	10 400.7
728	11 285.3	10 503.9
729	11 274.6	10 528.8
730	11 247.2	10 518.1
731	11 237.0	10 499.4
732	11 237.9	10 486.5
733	11 251.4	10 480.4
734	11 270.8	10 478.8
735	11 183.1	10 359.0
736	11 179.2	10 377.7
737	11 156.4	10 384.4
738	11 125.4	10 385.3
739	11 121.7	10 364.0
740	11 127.5	10 351.7
741	11 164.1	10 349.1
742	11 211.3	10 414.8

COORDINATE POINTS NORTHEAST LANDFILL		
NO.	NORTHING	EASTING
743	11 217.5	10 440.0
744	11 204.2	10 456.2
745	11 178.8	10 455.5
746	11 152.9	10 434.4
747	11 117.6	10 424.9
748	11 118.3	10 410.6
749	11 156.6	10 407.0
750	11 188.9	10 477.7
751	11 194.9	10 499.0
752	11 177.7	10 505.7
753	11 166.1	10 501.8
754	11 142.8	10 501.8
755	11 125.8	10 524.9
756	11 108.4	10 520.1
757	11 106.8	10 489.3
758	11 114.6	10 451.6
759	11 152.7	10 454.2
760	11 172.1	10 463.7
761	11 173.6	10 476.4
762	11 077.6	10 355.8
763	11 058.4	10 394.7
764	11 033.0	10 393.8
765	11 019.3	10 382.9
766	11 023.6	10 354.7
767	11 037.3	10 337.4
768	11 064.3	10 338.1
769	11 012.9	10 398.0
770	11 007.4	10 416.6
771	10 996.0	10 421.1
772	10 973.7	10 409.5
773	10 953.3	10 410.4
774	10 947.1	10 402.6
775	10 949.0	10 393.8
776	10 966.2	10 386.0

COORDINATE POINTS NORTH AIRSTRIP DEBRIS AREA		
NO.	NORTHING	EASTING
777	11 026.3	10 978.2
778	11 022.5	10 985.7
779	11 000.7	10 991.5
780	10 982.1	10 985.7
781	10 971.9	10 960.6
782	10 977.9	10 953.9
783	10 999.0	10 958.5

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Quartier général

General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. ALL NON-HAZARDOUS DEBRIS WITHIN PLAN AREA TO BE PLACED IN NON-HAZARDOUS WASTE LANDFILL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
5. APPROXIMATE PERIMETER OF AREAS TO BE REGRADED WITH 0.75m MIN. TYPE 2 GRANULAR FILL TO MATCH SURROUNDING TERRAIN. SIDE SLOPES 3H:1V MAX.

Legend:

- TBM1 TEMPORARY BENCHMARK
- DCC TIER II CONTAMINATED SOIL
- TYPE A CONTAMINATED SOIL
- TEST PIT LOCATION (2000)
- 250 COORDINATE POINT
- 1 PHOTOGRAPHIC VIEWPOINT
- BODY OF WATER

No.	DATE	REVISION	REVISION	APPR.

DRAFT

uma SNC

SCALE - ECHELLE 20 10 0 20 40 60m

PROJECT - PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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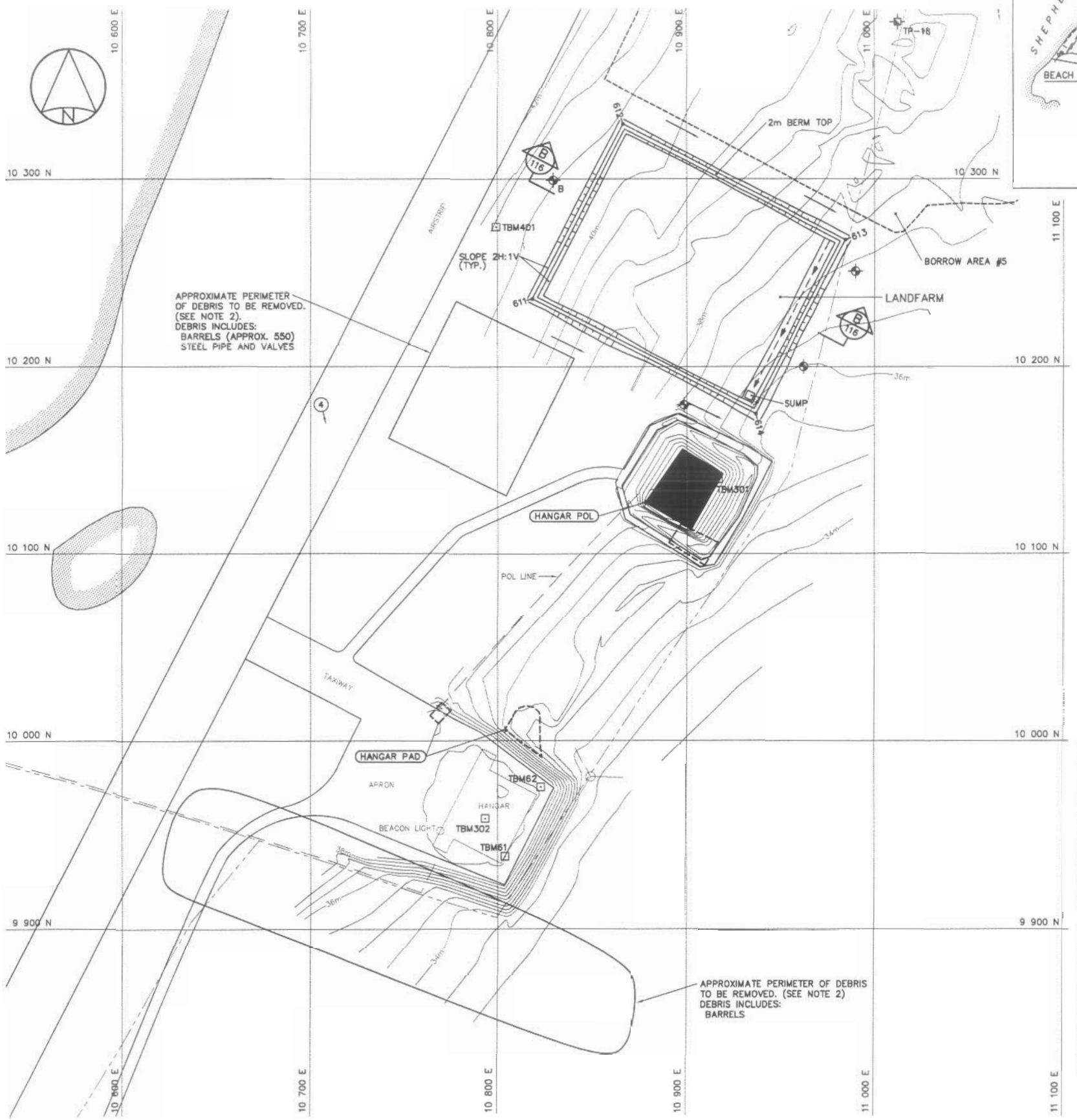
TRADE - METIER: SITING
DATE: 2004-06

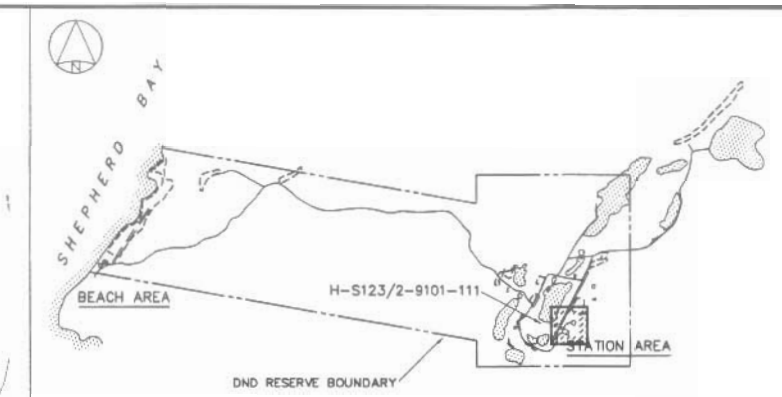
SUBJECT - SUJET
NORTHEAST LANDFILL AREA
SITE PLAN

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

DWG. NO. - DESSIN NO.
H-S123/2-9101-110

Canada





KEY PLAN

COORDINATE POINTS LANDFARM			
NO.	NORTHING	EASTING	ELEV.
611	10 236.3	10 818.3	41.6
612	10 329.2	10 866.5	41.6
613	10 267.8	10 984.7	38.6
614	10 175.0	10 936.6	37.5

CONTAMINATED SOIL				
AREA NAME	APPROX. AREA (m^2)	ESTIMATED IN PLACE VOLUME (m^3)	REFERENCE POINT	
			NORTHING	EASTING
DCC TIER II				
HANGAR POL	969	100	10 127.4	10 877.9
TYPE B				
HANGAR POL	302	150	10 127.4	10 877.9
HANGAR PAD	69	35	10 005.9	10 803.9
HANGAR PAD	325	163	10 005.9	10 803.9

FOR CONTAMINATED SOIL DETAILS SEE DWG. H-S123/2-9101-122

TEMPORARY BENCHMARKS				
NO.	COORDINATES (m)		ELEV. (m)	DESCRIPTION
	NORTHING	EASTING		
61	9 934.429	10 801.823	39.160	TECSULT #3
62	9 971.430	10 821.074	39.143	TECSULT #4
301	10 140.075	10 917.783	39.248	NAIL
302	9 958.604	10 793.286	39.163	NAIL
401	10 274.566	10 799.292	41.091	50mm x 50mm WOODEN HUB

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Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. ALL NON-HAZARDOUS DEBRIS WITHIN PLAN AREA TO BE PLACED IN NON-HAZARDOUS WASTE LANDFILL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
5. ALL LONG RANGE RADAR (LRR) FACILITIES ARE CURRENTLY OPERATIONAL AND ARE NOT TO BE DISTURBED. SEE DWG. H-S123/2-9101-201 FOR ADDITIONAL DETAILS.
6. FOR MONITORING WELL INSTALLATION DETAILS, SEE DWG. H-S123/2-9101-127. EXACT LOCATIONS TO BE FIELD DETERMINED BY THE ENGINEER.

Legend:

- TBM1 TEMPORARY BENCHMARK
- DCC TIER II CONTAMINATED SOIL
- TYPE B CONTAMINATED SOIL
- TEST PIT LOCATION (1992)
- TEST PIT LOCATION (2000)
- 250 COORDINATE POINT
- 11 PHOTOGRAPHIC VIEWPOINT
- BODY OF WATER
- PROPOSED MONITORING WELL LOCATION (3)
- B PROPOSED BACKGROUND MONITORING WELL LOCATION (1)

No.	DATE	REVISION	REVISION	APPR.

DRAFT

UMA SNC

SCALE - ECHELLE 20 10 0 20 40 60m

PROJECT - PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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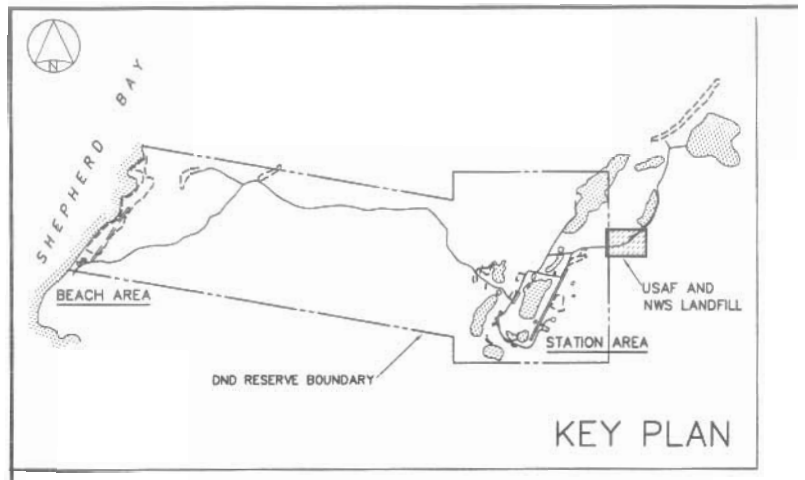
TRADE - METIER: SITING
DATE: 2004-06

SUBJECT - SUJET
HANGAR AREA, SITE PLAN

PRODUCTION	CONCURRENCE - ASSENTIMENT	
DESIGNED ETUDIE ANP/RRM		DES OFF AGENT CONCEPT
DRAWN DESSINE RN/LJV		SECT HD CHIEF SECT
CHECKED VERIFIE KMS		DES MGR GEST CONCEPT
COORDINATION SMS	REVIEWED - REVU	

DWG. NO. - DESSIN NO.
H-S123/2-9101-111

Canada

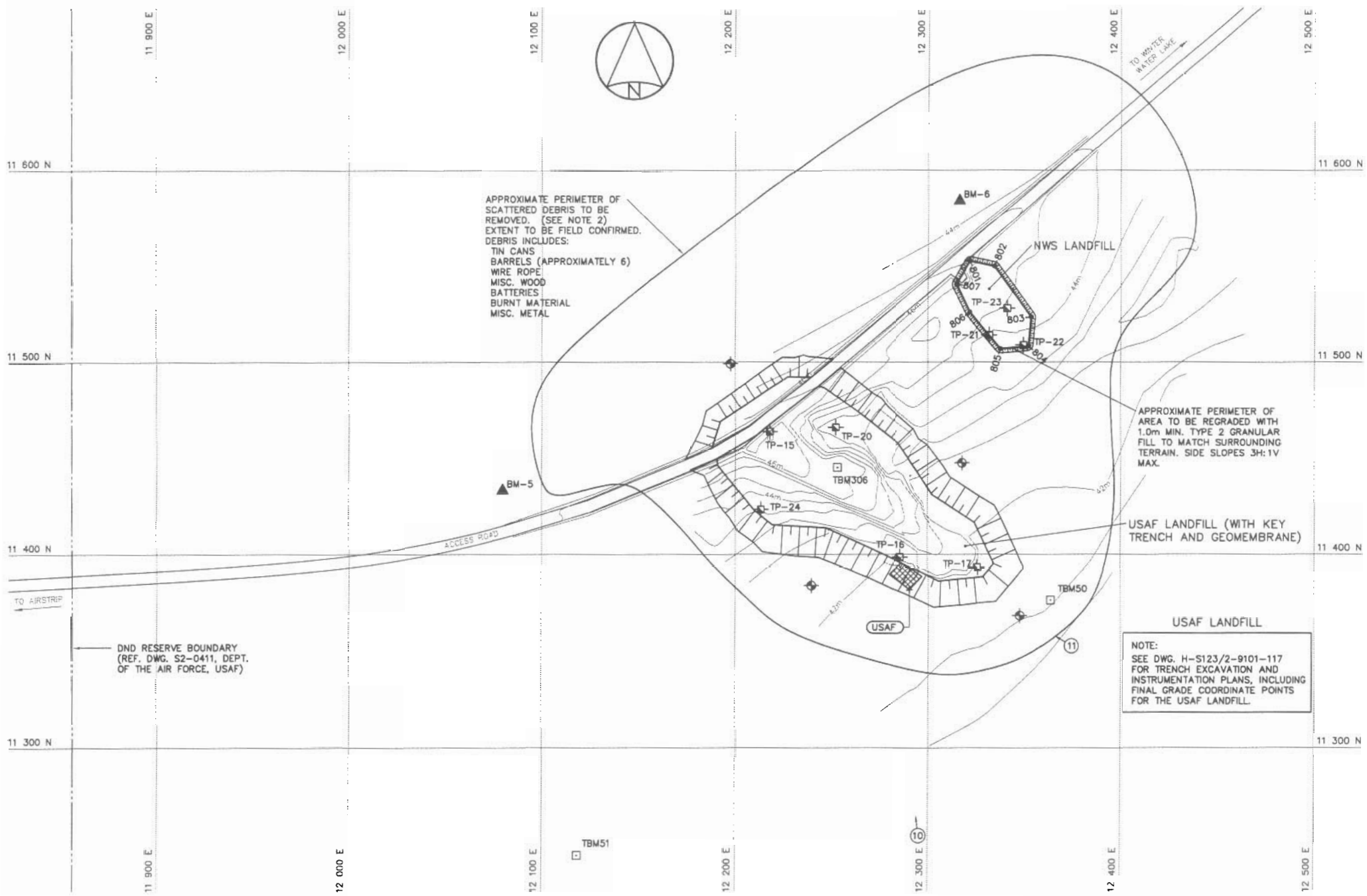


COORDINATE POINTS NWS LANDFILL		
NO.	NORTHING	EASTING
801	11 552.8	12 321.7
802	11 550.0	12 334.5
803	11 523.4	12 353.2
804	11 508.2	12 351.8
805	11 507.0	12 337.5
806	11 526.0	12 321.8
807	11 540.5	12 314.7

CONTAMINATED SOIL				
AREA NAME	APPROX. AREA (m^2)	ESTIMATED IN PLACE VOLUME (m^3)	REFERENCE POINT	
			NORTHING	EASTING
TYPE A				
USAF	114	34	11 381.6	12 290.3

FOR CONTAMINATED SOIL DETAILS SEE DWG. H-S123/2-9101-123

TEMPORARY BENCHMARKS				
NO.	COORDINATES		ELEV.	DESCRIPTION
	NORTHING	EASTING		
50	11 376.196	12 363.492	42.229	REBAR - STONE RING
51	11 244.479	12 118.383	41.197	REBAR - STONE RING
306	11 445.008	12 253.275	45.804	NAIL



USAF LANDFILL

NOTE:
SEE DWG. H-S123/2-9101-117 FOR TRENCH EXCAVATION AND INSTRUMENTATION PLANS, INCLUDING FINAL GRADE COORDINATE POINTS FOR THE USAF LANDFILL.

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Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. ALL NON-HAZARDOUS DEBRIS WITHIN PLAN AREA TO BE PLACED IN NON-HAZARDOUS WASTE LANDFILL.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
5. FOR PERMANENT SURVEY CONTROL (BENCHMARK) INSTALLATION DETAILS, SEE DWG. H-S123/2-9101-127. LOCATIONS TO BE APPROVED BY THE ENGINEER.
6. FOR MONITORING WELL INSTALLATION DETAILS SEE DWG. H-S123/2-9101-127. EXACT LOCATIONS TO BE FIELD DETERMINED BY THE ENGINEER.

Legend:

- TBM1 TEMPORARY BENCHMARK
- TYPE A CONTAMINATED SOIL
- TEST PIT LOCATION (2000)
- 250 COORDINATE POINT
- 11 PHOTOGRAPHIC VIEWPOINT
- PROPOSED MONITORING WELL LOCATION (4)
- BM-5 PROPOSED PERMANENT BENCHMARK LOCATION (2). (SEE NOTE 5).

No.	DATE	REVISION	REVISION	APPR.

DRAFT

uma smii

SCALE - ECHELLE 20 10 0 20 40 60m

PROJECT - PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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TRADE - METIER: SITING
DATE: 2004-06

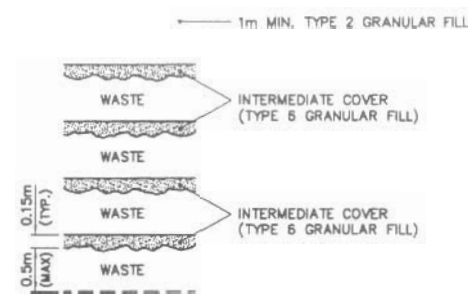
SUBJECT - SUJET
USAF LANDFILL AND NWS LANDFILL AREA SITE PLAN

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

DWG. NO. - DESSIN NO.
H-S123/2-9101-112

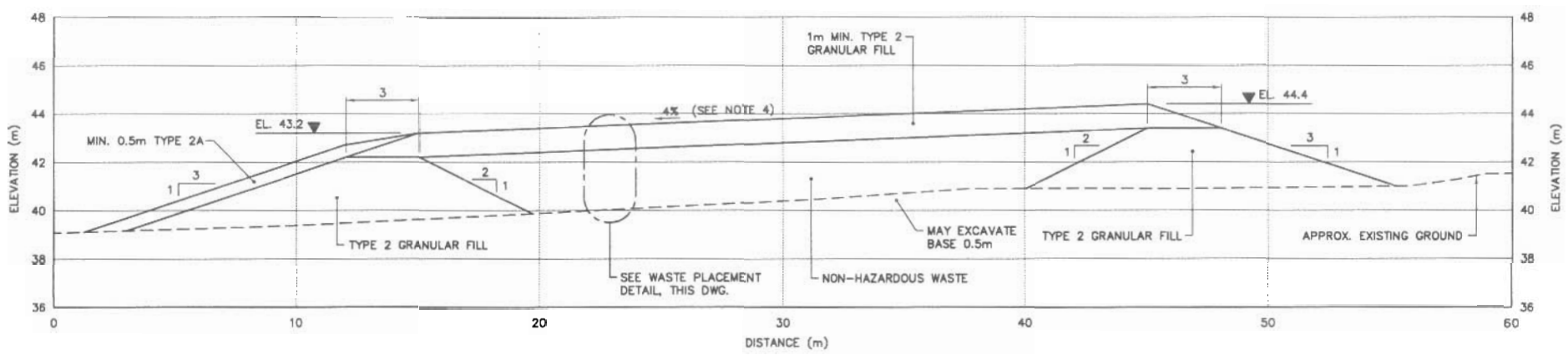
Canada

ADD ADDITIONAL LAYERS AS REQUIRED TO ACHIEVE THE NON-HAZARDOUS WASTE LANDFILL DESIGN ELEVATIONS.



WASTE PLACEMENT DETAIL

N.T.S.



SECTION A 107

National Défense
Defence nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
3. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
4. VARIABLE SLOPE ON LANDFILL SURFACE PERMITTED. MINIMUM 2% – MAXIMUM 4%.

Legend:

No.	DATE	REVISION	REVISION	APPR.

DRAFT

UMA SNC

SCALE – ECHELLE 2 1 0 2 4 6m

PROJECT – PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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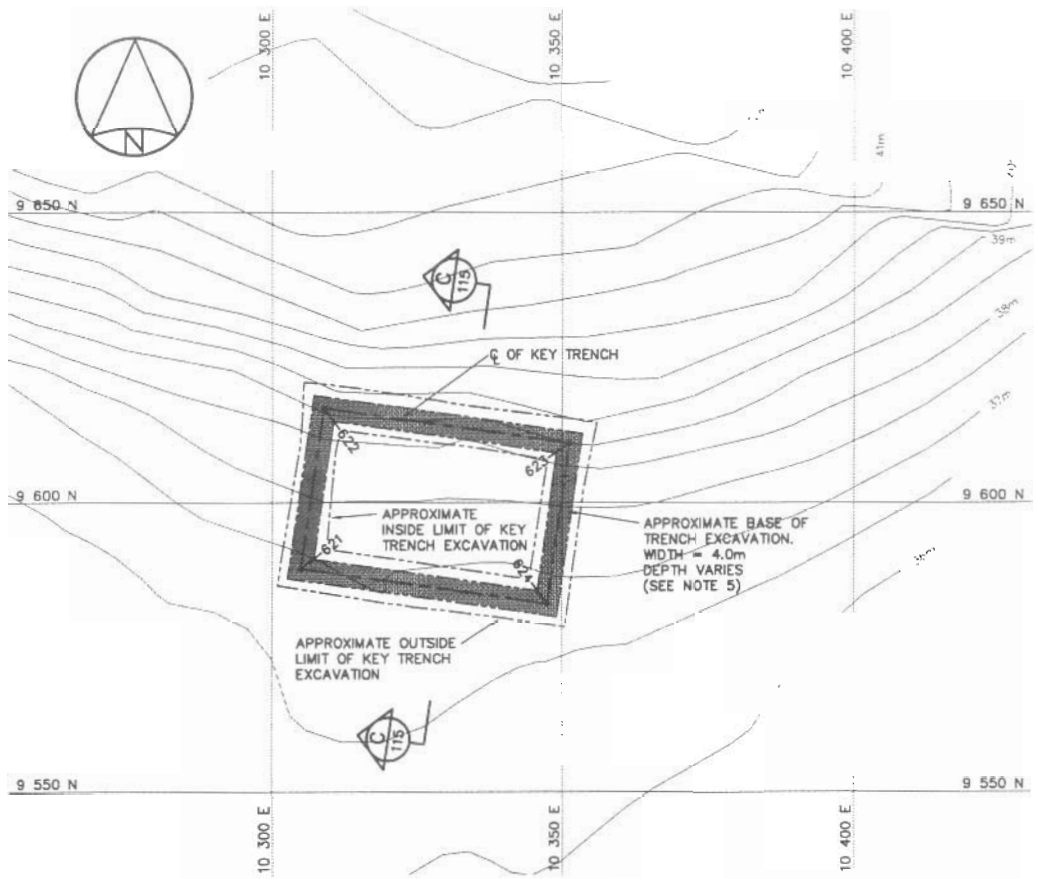
TRADE – METIER: SITING
DATE: 2004-06

SUBJECT – SUJET
NON-HAZARDOUS WASTE LANDFILL CROSS SECTION AND DETAIL

PRODUCTION	CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE ANP/RRM		DES OFF AGENT CONCEPT
DRAWN DESSINE RN/LJV		SECT HD CHEF SECT
CHECKED VERIFIE KMS		DES MGR GEST CONCEPT
COORDINATION SMS	REVIEWED – REVU	

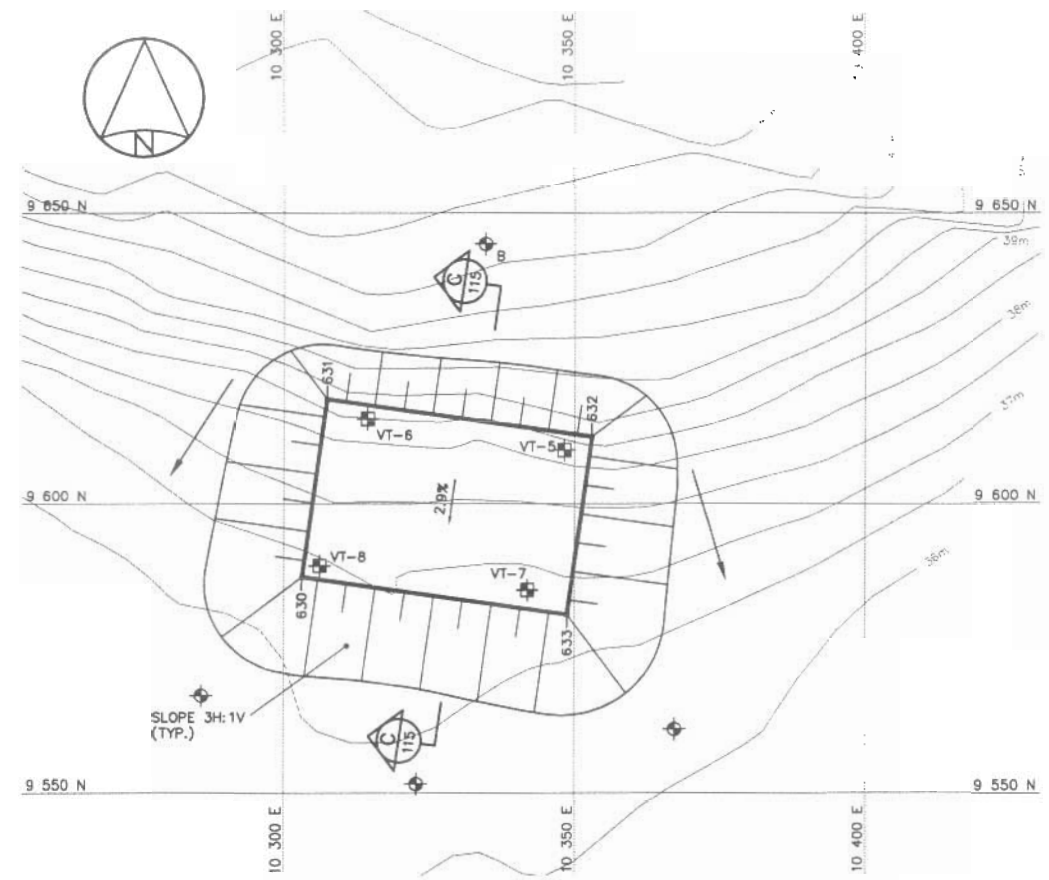
DWG. NO. – DESSIN NO.
H-S123/2-9101-113

Canada



KEY TRENCH EXCAVATION PLAN

COORDINATE POINTS KEY TRENCH EXCAVATION		
NO.	NORTHING	EASTING
621	9 588.6	10 304.8
622	9 616.3	10 308.8
623	9 610.3	10 351.3
624	9 582.6	10 347.4



GRADING/INSTRUMENTATION PLAN

COORDINATE POINTS FINAL LANDFILL SURFACE			
NO.	NORTHING	EASTING	ELEV.
630	9 587.3	10 303.1	42.15
631	9 618.0	10 307.5	43.05
632	9 611.5	10 353.0	43.05
633	9 580.9	10 348.7	42.15

National Défense
Defence nationale

Headquarters
Quartier général

General Notes:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.
2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
3. HORIZONTAL CONTROL REFERENCED TO SURVEY CONTROL MONUMENTS.
4. FOR THERMISTOR INSTALLATION DETAILS, SEE DWG. H-S123/2-9101-126. EXACT LOCATIONS TO BE FIELD DETERMINED BY THE ENGINEER.
5. KEY TRENCH FOR SATURATED BERMS TO EXTEND 1.5m MIN. BELOW EXISTING GROUND. EXCAVATION DEPTH TO BE FIELD CONFIRMED BY THE SITE ENGINEER, BASED ON THE PRESENCE OF SOUND BEDROCK OR SATURATED GROUND.

Legend:

- 801 — COORDINATE POINT
- VT-1 — GROUND TEMPERATURE CABLE INSTALLATION (4)
- PROPOSED MONITORING WELL LOCATION (3)
- B — PROPOSED BACKGROUND MONITORING WELL LOCATION (1)

No.	DATE	REVISION	REVISION	APPR.

DRAFT

UMA SNC

SCALE – ECHELLE 10 5 0 10 20 30m

PROJECT – PROJET
CAM-3 SHEPHERD BAY

DEW LINE CLEAN UP

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TRADE – METIER: SITING
DATE: 2004-06

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

PRODUCTION	CONCURRENCE – ASSENTIMENT	
DESIGNED ETUDIE ANP/RRM		DES OFF AGENT CONCEPT
DRAWN DESSINE RN/LJV		SECT HD CHIEF SECT
CHECKED VERIFIE KMS		DES MGR GEST CONCEPT
COORDINATION SMS	REVIEWED – REVU	

DWG. NO. – DESSIN NO.
H-S123/2-9101-114

Canada