



25.30 FOX-M, HALL BEACH

25.30.1 LOCATION/TERRAIN/TOPOGRAPHY

Latitude: 68° 47' 6.56" N
Longitude: 81° 14' 32.49" W
Elevation: 5 m

Location: This Long Range Radar (LRR) site is situated on a small point of land which is part of the most eastern extremity of a broad coastal plain which extends from the Foxe Basin to Hall Lake, 32.2 km to the west. The nearest community is the Hamlet of Hall Beach, 3 km distance by road. The closest sources of support are CAM-M, Cambridge Bay and the LSS located in Iqaluit. The airport in Hall Beach is served by major commercial air carriers.

Terrain: The main portion of the site is set atop a knoll, about 5 m above sea level, consisting of material similar to that of the surrounding territory, which appears to be an emerging gravel studded sea bottom. Surface material consists of sand, gravel, cobbles, and angular shingle-like fragments. Loose surface materials extend 0.5-1.0 m deep near shore. Low areas feature a veneer of organic mud and silts. The shallow wetlands of the coastal plain are almost completely covered by grasses, sedge, and wildflowers.

25.30.2 CLIMATE

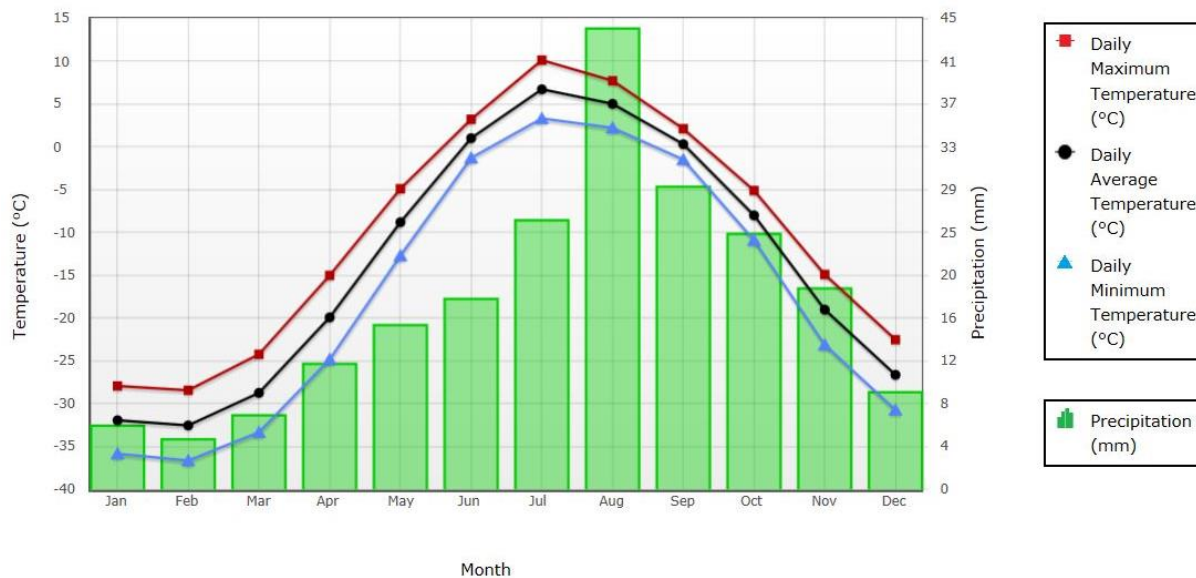


Figure 25.30-1 Temperature and Precipitation Averages at Hall Beach, NU from 1981 to 2010

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Precipitation:	Annual Average:	218 mm
	Snowfall:	121 cm
	Rainfall:	100 mm

25.30.3 SITE POPULATION

The normal site population is 18-22 people during the year, but numbers increase during summer due to seasonal construction and occasional large groups of Third Party visitors.

25.30.4 LAND USE

The Inuit hunt, fish, and trap in the region. The Inuit community of Igloolik is about 50 km north of Hall Beach. The two communities put considerable hunting pressure on the limited resources of the coastal plain and near shore waters of Foxe Basin. They also hunt on the ice in winter. The site is located in the Nunavut Settlement Area in the Qikiqtaaluk administrative region. DND has been transferred the management, charge, and direction of the property by DIAND for the life to the NWS.

There are known archaeological sites at and near FOX-M. Archaeological sites found on the coastal plain around Hall Beach are unique in that they provide a record of continuous human habitation for about 4,000 years. There is a protected Inuit archaeological site marked by a sign, located close to the site. This site is from the Thule Inuit culture of the region and dates back about 700 to 1,000 years old.

Two more prehistoric sites also exist near FOX-M. One site is located southwest of the Hamlet of Hall Beach. The single artifact recovered suggests that the site has a Dorset Palaeo-Eskimo component although other evidence suggests that the major part of the site dates to the Thule and subsequent Inuit period. This location has been disturbed by pipeline construction in the past and has exhibited more recent disturbance, possibly by souvenir collectors. The other site, south of FOX-M, consists of seven features including inuksuit and meat caches. Approximately 500 m to the south is a single large cache with associated walrus crania. The depth of vegetation and lichen on the site suggests some antiquity. The site is currently undisturbed.

25.30.5 WILDLIFE

On the tundra of the Melville Peninsula, caribou, arctic fox, arctic hares, wolves, wolverine, and polar bear can be seen.

The shallow wetlands of the coastal plain provide breeding habitat for many species of birds. Gyrfalcons, snowy owls, and rough-legged hawks have been seen at FOX-M. Eider nests have been found in extensively disturbed areas on site. The most common shorebirds encountered in the vicinity of the station are red phalarope, Baird's sandpiper, and plovers. Snow bunting have nested in disturbed habitats within the site. Arctic terns were found nesting along the beach at the site.

In Foxe Basin, seals, walrus, narwhals, and beluga whales can be seen. Hall Lake and most lakes in the regions support lake trout and arctic char.

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Table 25.30-1 shows the wildlife that can be found on or within the vicinity of FOX-M.

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Table 25.30-1 Wildlife Species Encountered at or within range of FOX-M and their classification under SARA, COSEWIC, and Territorial Regulations

Species Common Name	Species Binomial Nomenclature	Time frame of Occurrence	SARA Status ¹	SARA Schedule ²	COSEWIC Designation ³
TERRESTRIAL MAMMALS					
Arctic Fox	<i>Vulpes lagopus</i>	Annual	---	---	---
Arctic Hare	<i>Lepus arcticus</i>	Annual	---	---	---
Caribou, Barren Ground subspecies	<i>Rangifer tarandus groenlandicus</i>	Annual	---	---	---
Grey Wolf	<i>Canis lupus</i>	Annual	---	---	---
Red Fox	<i>Vulpes vulpes</i>	Annual	---	---	---
Wolverine	<i>Gulo gulo</i>	Annual	---	---	Special Concern
MARINE MAMMALS					
Atlantic Walrus	<i>Odobenus rosmarus</i>	Seasonally	---	---	Special Concern
Beluga Whale (Eastern High Arctic-Baffin Bay Population)	<i>Delphinapterus leucas</i>	Summer	---	---	Special Concern
Bowhead Whale (Eastern Arctic Population)	<i>Balaena mysticetus</i>	Annual	Endangered	2	Non-Active
Bowhead Whale (Eastern Canada-West Greenland Population)	<i>Balaena mysticetus</i>	Annual	---	---	Special Concern
Harbour Seal	<i>Phoca vitulina concolor</i>	Annual	---	---	Not at Risk
Killer Whale	<i>Orcinus orca</i>	Seasonally	---	---	Special Concern
Narwhal Whale	<i>Monodon monoceros</i>	Seasonally	---	---	Special Concern
Polar Bear	<i>Ursus maritimus</i>	Annual	Special Concern	1	Special Concern
BIRDS					
American Golden Plover	<i>Pluvialis dominica</i>	Summer	---	---	---
American Pipit	<i>Anthus rubescens</i>	Summer	---	---	---
Arctic Tern	<i>Sterna paradisaea</i>	Summer	---	---	---
Baird's Sandpiper	<i>Calidris bairdii</i>	Summer	---	---	---
Black-Bellied Plover	<i>Pluvialis squatarola</i>	Summer	---	---	---
Brant	<i>Branta bernicla</i>	Summer	---	---	---
Common Eider	<i>Somateria mollissima</i>	Summer	---	---	---
Common Raven	<i>Corvus corax</i>	Annual	---	---	---
Common Redpoll	<i>Acanthis flammea</i>	Summer	---	---	---
Dunlin	<i>Calidris alpina</i>	Summer	---	---	---
Glaucous Gull	<i>Larus hyperboreus</i>	Summer	---	---	---
Gyrfalcon	<i>Falco rusticolus</i>	Year Round	---	---	Not at Risk
Herring Gull	<i>Larus argentatus</i>	Summer	---	---	---
Hoary Redpoll	<i>Acanthis hornemanni</i>	Year Round	---	---	---
Horned Lark	<i>Eremophila alpestris</i>	Summer	---	---	---
King Eider	<i>Somateria spectabilis</i>	Summer	---	---	---
Lapland Longspur	<i>Calcarius lapponicus</i>	Summer	---	---	---
Long-Tailed Duck	<i>Clangula hyemalis</i>	Summer	---	---	---
Long-Tailed Jaeger	<i>Stercorarius longicaudus</i>	Summer	---	---	---
Parasitic Jaeger	<i>Stercorarius parasiticus</i>	Summer	---	---	---
Peregrine Falcon, Tundrius subspecies	<i>Falco peregrinus tundrius</i>	Annual	Special Concern	3	Non-Active
Purple Sandpiper	<i>Calidris maritima</i>	Summer	---	---	---
Red Knot, Rufa	<i>Calidris canutus rufa</i>	Summer	Endangered	1	Endangered
Red-Necked Phalarope	<i>Phalaropus lobatus</i>	Summer	---	---	---
Red-Throated Loon	<i>Gavia stellata</i>	Summer	---	---	---
Rock Ptarmigan	<i>Lagopus muta</i>	Winter	---	---	---
Ross's Goose	<i>Chen rossii</i>	Summer	---	---	---
Rough-Legged Hawk	<i>Buteo lagopus</i>	Summer	---	---	Not at Risk
Ruddy Turnstone	<i>Arenaria interpres</i>	Summer	---	---	---
Sabine's Gull	<i>Xema sabini</i>	Summer	---	---	---

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Species Common Name	Species Binomial Nomenclature	Time frame of Occurrence	SARA Status ¹	SARA Schedule ²	COSEWIC Designation ³
Sandhill Crane	<i>Grus canadensis</i>	Summer	---	---	---
Semipalmated Plover	<i>Charadrius semipalmatus</i>	Summer	---	---	---
Snow Bunting	<i>Plectrophenax nivalis</i>	Summer Migration	---	---	---
Snow Goose	<i>Chen caerulescens</i>	Summer	---	---	---
Snowy Owl	<i>Bubo scandiacus</i>	Annual	---	---	Not at Risk
Thayer's Gull	<i>Larus thayeri</i>	Summer	---	---	---
White Rumped Sandpiper	<i>Calidris fuscicollis</i>	Summer	---	---	---
Willow Ptarmigan	<i>Lagopus lagopus</i>	Annual	---	---	---

Notes:

1 = SARA Status. The federal Species At Risk Act (SARA) classifies species as extinct, extirpated, endangered, threatened, or special concern.

2 = SARA Schedule. The federal Species at Risk Act (SARA) assigns species to Schedule 1, 2 or 3. Schedule 1 is the official List of Wildlife Species at Risk. Schedule 1 species and their residences and critical habitats are protected. Species in Schedule 2 or 3 are not protected under SARA, but they are monitored and their designation is subject to re-assessment.

3 = The Committee on the Status of Endangered Wildlife in Canada (COSEWIC) is a committee of experts that assesses and designates which wildlife species are in some danger of disappearing from Canada. COSEWIC designations are based on status reports. These status reports are comprehensive technical reports that compile and analyze the best available information on a wildlife species' status in Canada and indicates the threats to that wildlife species. COSEWIC classifies species as extinct, extirpated, endangered, threatened, or special concern.

4= Under Nunavut's Wildlife Act, a List of Species at Risk can be established. No species have been listed yet.

5 = --- means there is no classification.

25.30.6 WATER SUPPLY

Water is piped directly from the artificial (man-made) water reservoir to the raw water tanks, as required.

25.30.7 SEWAGE DISPOSAL

Sewage at FOX-M is treated at the site's tertiary sewage treatment plant.

25.30.8 WASTE DISPOSAL

Domestic waste is disposed of in the community landfill of the Hamlet of Hall Beach.

25.30.9 ELECTRICAL POWER

Power is generated at this site through five generators, which have the capacity to be synchronized together. Total capacity can vary depending on the site load and the number of DEGs online. This range can vary from 175 kW to 1390 kW.

25.30.10 FIRE PROTECTION

Components: The fire protection system consists of:

- Fire Alarm & Detection System;
- CO₂ Fire Suppression Systems;
- FM-200 Fire Suppression System; and
- Portable Fire Extinguisher.

Description: The Fire Alarm Control Panel (FACP) for the main detection system (GE quick start) is located in the dining area, with a secondary panel located in 'B' Train.

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If the FACP fire alarm is activated, the system will:

- a. activate the fire doors in the activated zone;
- b. set off the alarm bells and horns throughout the site;
- c. activate the station siren to notify personnel outside; and
- d. send a signal to notify the NWSCC.

The Pyrene CO₂ system is located in the C&E and the Power Plant area.

If a single detector from the Pyrene System is activated, the system will:

- a. set off the alarm bells and horns in that area;
- b. send a signal to the main FACP, which activates the main fire alarm panel and will set off the alarm bells and horns throughout the site; and
 - i. send a signal to notify the NWSCC.

If a second device in the C&E area is activated, the following will occur:

- a. the FACP will initiate shutdown of the exhaust fans and radar;
- b. the FACP will initiate the discharge of CO₂ into the zone where alarm initiated from;
- c. the FACP will activate the discharge strobes above the entrance way to the fire zone;
- d. the discharge pressure switch will activate; and
- e. send a signal to notify the NWSCC.

If a second device in the Power Plant on the site is activated, the following will occur:

- a. the FACP will initiate the shutdown of the exhaust fan & power;
- b. the FACP will initiate the generator shut down;
- c. the FACP will initiate CO₂ discharge into the power plant;
- d. the FACP will initiate the discharge strobes above the entrance way to the fire zone;
- e. the discharge pressure switch will activate; and
- f. send a signal to notify the NWSCC.

The FM-200 Suppression System is located in the Communications Room (Comms Room), and is made up of two 60 lbs cylinders with 48 lbs of agent. The system is supervised by the GE Quick Start Fire Alarm Panel.

If a single device in the Comms Room is activated, the following will occur:

- a. the FACP will initiate evacuation bell within the Comms Room;
- b. the FACP will send a signal to the GE Quick Start FACP which will activate the sites Fire Alarm System; and
- c. the FACP will send a signal to notify the NWSCC.

If a second device in the Comms room is activated, the following will occur:

- a. the FACP will initiate the discharge sequence; and
- b. the discharge strobes will activate above the entrance way to the Comms Rooms.



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The Kitchen Range Guard System is located in the dining area, and is made up of one cylinder containing 11.3 L (2.5 Gal) of agent. The system is supervised by the GE Quick Start Fire Alarm Panel.

If the system is activated by either the release of a fusible link in the canopy which will flood the grills and canopy with agent, or by a manual pull station located on the canopy, the main FACP will:

- will be signaled;
- will set off the alarm bells and horns; and
- send a signal to notify the NWSCC.

25.30.11 KITS

KIT	LOCATION
Fire Fighting Equipment	Strategic locations throughout site
Safety Boards	Strategic locations throughout site
Search and Rescue	Receiving Room, "B" Train Mod 11/Dining Room
Disaster/Survival	Garage Mezzanine
POL Spill	LSS Warehouse – 16B
Chemical/Asbestos Spill	LSS Warehouse – 16B
First Aid Supplies and Equipment	Strategic locations throughout the site

Table 25.30-2 FOX-M Fuel Spill Kit

CAT I.D.	QTY.	ITEM	PART NUMBER
1067553	C/W	POL SPILL CLEANUP KIT No. 1	CL006
1021477	20 BG	ABSORBENT, MATERIAL 50 QT. BAG	48210
1021572	10 RL	ABSORBENT, MATERIAL 3/8" X 36" X 144 FT	OB150
1044124	150 BG	ABSORBENT, MATERIAL 50 QT. BAG	48230
1021664	1 CS	ABSORBENT, SHEET 200 SH/CS 17"X19"X3/8"THK	OB100
1059485	8 EA	BOOM, OIL 40 FT. TOTAL LG.	48225
1062419	2 EA	PITCHFORK	R41645
1018094	1 BX	PLASTIC BAG 100 BAGS/BOX	35-50-3B
1008712	4 RL	PLASTIC POLY 6 MIL, 1000 SQ.METERS	VISQUEENCLEAR
1021141	3 EA	HALF MASK, DISPOSABLE TYPE	GT-9999-3005-7
1009276	1 RL	ROPE, POLYPROPYLENE 600 FT.	MIL-R-24049
1013919	20 PR	RUBBER GLOVES, LINED	GL4513 (M)
1061292	2 PR	SAFETY GOGGLES	6367
1062475	2 EA	SHOVEL, ROUND MOUTH	GGG-S-326
1022135	1 EA	SLIPTANK, PORTABLE 100 GAL.	TANK100
1003058	2 EA	SALVAGE DRUMS 85 GAL.	PS-26368

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Table 25.30-3 FOX-M Chemical Spill Kit

CAT I.D.	QTY.	ITEM	PART NUMBER
1067552	C/W	CHEMICAL SPILL KIT	CL007
1023947	4 PR	COVERALLS, W/ HOOD & BOOT COVERS	SEA PA5228
1012151	4 PR	GLOVES, CHEMICAL RESISTANT	111E220
1063898	1 BX	RAGS, COTTON, 50 LB.	31-25
1062334	4	SIGN, HAZARDOUS CHEMICAL	70852
1022625	4	RESPIRATOR, HALF-FACE	655X013
1022622	12	CARTRIDGE FILTERS, VAPOUR	655F155

Table 25.30-4 FOX-M Asbestos Response Kit

CAT I.D.	QTY.	ITEM	PART NUMBER
1067551	C/W	ASBESTOS RESPONSE KIT	CL008
1023947	8 PR	COVERALLS, W/ HOOD & BOOT COVERS	SEA PA5228
1063146	2 BG	GLOVEBAG. HORIZONTAL, ZIP-LOCK	10HZ
1050629	1 PG	GLOVEBAG. TEE, ZIP-LOCK	10TZ
1049979	1 PG	GLOVEBAG. HORIZ. W/VALVE ZIP-LOCK	10VLZ
1060069	1 PG	GLOVEBAG. VERTICAL, ZIP-LOCK	10VZ
1063031	1 BG	ADHESIVE, BAKELITE	120-18
1063032	1	CANVAS SHEET 5 FT. X 6 FT.	00
1022622	12	CARTRIDGE FILTERS, VAPOUR	655F155
1060534	2	CAUTION LABELS (BRADY)	85383
1011756	14 RL	DUCT TAPE	290
1057731	2	EXPANSION STRIP 6" X 54 "	0654EX
1012151	10 PR	GLOVES, CHEMICAL RESISTANT	111E220
1013228	1 BX	GLOVES, SURGICAL 100/BOX	431104
1011596	3	PLASTIC PAIL	L-P-65
1008712	2 RL	SHEET, PLASTIC 144" W X 1200" LG.	VISQUEENCLEAR
1066387	1	PRESSURE SPRAYER, 1 GAL	60071
1063898	1	RAG, COTTON	31-25
1022625	4	RESPIRATOR, HALF-FACE	655X013
1009663	1	SHEARS, METAL TIN SNIPS	270-10
1063027	1 SE	SHOULDER STRAP, 30" LG	30SS
1063040	1 SE	SHOULDER STRAP, 60" LG	60SS
1063637	1	DISINFECTANT, 1 GAL	EMP425-1
1019931	3	UTILITY KNIFE	U-3-C
1061205	4	WARNING SIGN (BRADY)	92288
1061986	1	WIRE, FLEXSAW	20FS
1018252	1 PL	WETTING AGENT, SURFACTANT 5 GAL.	CP-225
1062413	6 EA	BAG, PLASTIC. YELLOW	ASBA003
1064301	4	BRUSH, PAINT 4 IN. WIDE	310-100

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25.30.12 BULK FUEL STORAGE AND DISTRIBUTION

Fuel is delivered to the site annually. The ship pumps directly into both the beach and summit bulk storage tanks via 150 mm diameter fuel transfer lines. Bulk Fuel Technicians transfer fuel annually from the beach tanks, via the apron meter house to helicopter and C-130 for delivery to CAM-5A and CAM-FA, and to FOX-3 respectively. Remote tanks located at the apron are refueled on an as-needed basis by the site personnel via a fuel truck.

Table 25.30-5 FOX-M Bulk Fuel Storage

LOCID	Location	Fuel Usage	Tank Size (L)	Max Fill Volume (L)	Usable Volume (L)
Environment Canada ID # & System Name: EC-00004257, FOX-M Beach to Summit					
HALW22A	Summit	PGS	946,300	890,038	845,653
HALW22B	Summit	PGS	946,300	890,038	845,653
HALW22J	Summit	PGS	50,000	46,917	45,981
HALW22K	Summit	PGS	50,000	46,917	45,981
HALW21E	Summit	Vehicle Refueller	4,125	3,878	3770
HALW20B	Beach	PGS	946,300	890,038	845,653
HALW20F	Beach	PGS	946,300	890,038	845,653
HALDAYT1	PGS	Power Plant	1,135	1,067	1,067
HALDAYT2	PGS	Power Plant	1,135	1,067	1,067
HALDAYT3	PGS	Power Plant	1,135	1,067	1,067
HALDAYT4	PGS	Power Plant	1,135	1,067	1,067
HALDAYT5	PGS	Power Plant	1,135	1,067	1,067
HALDAYT6	PGS	A-train	1,135	1,067	1,067
HALDAYT7	PGS	A-train	1,135	1,067	1,067
HALDAYT8	PGS	B-train	1,135	1,067	1,067
HALDAYT9	PGS	B-train	1,135	1,067	1,067
HALDAYT10	PGS	LSS Facility	1,135	1,067	1,067
HALDAYT11	PGS	LSS Facility	1,135	1,067	1,067
Environment Canada ID # & System Name: EC-00004260, FOX-M Aviation					
HALW20D	Airstrip	Aviation	69,200	65,084	63,427
HALW20E	Airstrip	Aviation	69,200	65,084	63,427
Environment Canada ID # & System Name: EC-00004261, FOX-M Warehouse					
HALW22N	Airstrip	Building heating	50,000	46,917	45,981
HALDAYT12	PGS	LRC Building	1,135	1,067	1,067
HALDAYT13	PGS	LRC Building	1,135	1,067	1,067
Environment Canada ID # & System Name: EC-00004262, FOX-M Hangar					
HALW22O	Airstrip	Building heating	50,000	46,917	45,981
HALDAYT14	PGS	Hangar	1,135	1,067	1,067

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LOCID	Location	Fuel Usage	Tank Size (L)	Max Fill Volume (L)	Usable Volume (L)
HALDAYT15	PGS	Hangar	1,135	1,067	1,067
Environment Canada ID # & System Name: EC-00016016, FOX-M ATB					
HALW22L	Airstrip	Building heating	4,500	4,230	4,030
Environment Canada ID # & System Name: EC-00016014, FOX-M Garage					
HALW22P	Summit	Building heating	5,200	4,888	4,488
Environment Canada ID # & System Name: EC-00016015, FOX-M HVS					
HALW22Q	Summit	Building heating	5,200	4,888	4,488
Summit Totals:			2,019,610	1,899,301	1,807,751
Airstrip Totals:			247,440	232,500	227,114
Beach Totals:			1,892,600	1,780,076	1,691,306
Site Totals:			4,159,650	3,911,877	3,726,171

Table 25.30-6 FOX-M Bulk Fuel System Components

COMPONENT	USE	DESCRIPTION
Tanks SHI W22A & SHI W22B	PGS	Field-erected, vertical, single bottom, steel 946,000L summit tanks (1956-1957) contained in gravel dikes with impermeable liner (1995) complete with a sump. The dike volume meets the required code capacity. The membrane in the dike attaches to the perimeter of the tank concrete foundation but does not pass under bottom of tank and does not meet CEPA requirements.
Tanks SHI W22J & SHI W22K	PGS	Self-diked, horizontal, steel 50,000L tanks at the Summit (1986-1987).
Tanks SHI W22N & SHI W22O	PGS	Self-diked, horizontal, steel 50,000 L tanks at the apron (2006). Serve as heating fuel supply for warehouses and hangar respectively.
Tank HAL W21E	PGS	Double-walled, horizontal, steel 4,125 L tank at the summit (2005).
Tanks SHI W22N & SHI W22O	Aviation	Field-erected, vertical, single bottom, steel 946,000L beach tanks (1956-1957) contained in gravel dikes with an impermeable liner (1995) complete with a sump. The dike volume meets the required code capacity. The membrane in the dike attaches to the perimeter of the tank concrete foundation but does not pass under bottom of tank and does not meet CEPA requirements.
Tanks SHI W22N & SHI W22O	Aviation	Single walled, horizontal, steel 69,200L tanks at the Apron (DEW Line vintage) contained in a single gravel dike with an impermeable liner (1995). Dike volume meets the required code capacity with membrane under the tanks.
Pipelines		<ul style="list-style-type: none"> a. 600 m of 150 mm aboveground piping from intake to summit b. 10 m of 150 mm <u>underground</u> piping from intake to summit c. 1,250 m of 150 mm aboveground piping from intake to beach tanks d. 550 m of 50 mm <u>underground</u> piping from apron to airstrip (removed from service in 2005, remains in-situ) e. 375 m of 75 mm aboveground piping from beach to airstrip f. 460 m of 100 mm aboveground piping from beach to airstrip

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COMPONENT	USE	DESCRIPTION
		g. 75 mm <u>underground</u> piping from beach to airstrip (under roadway)
		h. 100 mm <u>underground</u> piping from beach to airstrip (under roadway)
		i. 600 m of 50 mm <u>underground</u> piping around summit area.

Pumphouses:	Total Number	2
	a. Building Site Tank Area	1
	b. Beach Tank Area	1

Sources Include:

1. Initial Environmental Evaluation of the North Warning System Project, Vols 1 & 2. Monenco-Eyrettechnics Group, 1987 (Vol. 1), 1989 (Vol.2).
2. Environmental Cleanup Study of 21 DEW Line Sites in Canada. UMA, June 1991.
3. NWS Environmental Study, Vol. 2: Site Analysis. Royal Roads Military College Environmental Sciences Group (Reimer), June 1991.
4. Nunavut Land Claims Agreement, 1993.
5. NWS Site Record Drawings.
6. The Nunavut Wildlife Harvest Study. Nunavut Wildlife Management Board, February 2004.
7. Nunavut Wildlife Resource and Habitat Values. Nunami Jacques Whitford Limited. October 2008.

LOCID #	FACILITY NAME
HAL B01A	RADAR/COM - A-TRAIN
HAL B02A	ACCOMMODATION BLDG ARMCO
HAL B02C	C.U.U. ATWELLS BUILDING
HAL B03A	TECH SERV/POWER BLDG
HAL B06A	POL PUMPHOUSE - SUMMIT
HAL B06B	POL PUMPHOUSE - BEACH
HAL B06C	POL METERSHACK - AIRSTRIP
HAL B07A	WATER PUMPHOUSE
HAL B09A	AIRSTRIP TERMINAL BUILDING
HAL B10A	GARAGE
HAL B11A	B-TRAIN
HAL B13A	WAREHOUSE # 1
HAL B13B	WAREHOUSE # 2
HAL B13C	WAREHOUSE # 3
HAL B13D	WAREHOUSE # 4
HAL B14A	HANGAR
HAL B16A	LSS FACILITY
HAL B18A	DLM BUILDING
HAL B27A	HEATED VEHICLE STORAGE BLDG.

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LOCID #	FACILITY NAME
HAL W01A	ROADS
HAL W02B	WATER STORAGE DAM
HAL W02B	SEWAGE LAGOON (NOT IN USE)
HAL W03A	WATER DISTRIBUTION
HAL W05A	AUXILIARY POWER UNIT
HAL W06A	POWER DIST./CABLE GROUND
HAL W06B	POWER DISTR./CABLE OVERHEAD
HAL W08A	POL DISTRIBUTION LINES
HAL W09A	SGT PLATFORM/FOUNDATION MAIN
HAL W09B	SGT SECONDARY
HAL W09C	VARIOUS ANTENNAS
HAL W11	BOLLARDS
HAL W13A	TVRO FOUNDATION/ANTENNA
HAL W15A	RUNWAY AREA - APRON
HAL W20B	AVIATION/JET A-1 TANK
HAL W20D	AVIATION/JET A-1 TANK
HAL W20E	AVIATION/JET A-1 TANK
HAL W20F	AVIATION/JET A-1 TANK
HAL W21E	REFUELLER TANK
HAL W22A	PGS/JET-A1 TANK
HAL W22B	PGS/JET-A1 TANK
HAL W22N	PGS/JET-A1 TANK
HAL W22O	PGS/JET-A1 TANK
HAL W22J	PGS/JET-A1 TANK
HAL W22K	PGS/JET-A1 TANK
HAL W24C	POL/JET-A1 AR-75/300 (AIRCRAFT REFUELLER)
HAL W29A	FIRE PROTECTION SYSTEM
HAL W30	SECURITY SYSTEM
HAL W31A	GENERAL GROUNDS
HAL W32A	OPEN STORAGE AREA - POL
HAL W32B	OPEN STORAGE AREA - DISPOSAL
HAL W32C	OPEN STORAGE AREA - MISC.
HAL W33A	PIER/BEACH AREA
HAL W34A	FRESH WATER LAKE
HAL W35A	CONTAINMENT DYKES
HAL W42A	ELEVATED WALKWAY
HAL W43A	SITE SIGNS AND FLAG POLES

UNCONTROLLED WHEN PRINTED



UNCLASSIFIED

Raytheon
Canada Limited

SOW REF: 16.F.1.b



FOX-M, HALL BEACH (SUMMIT)




FOX-M, HALL BEACH (BEACH)

UNCONTROLLED WHEN PRINTED

H-H11/2-8400-101

FOX-M





National
Défense

Défense
nationale

NORTH WARNING SYSTEM OFFICE
Bureau du système d'alerte du Nord

LOCATION





NOTES:
1. THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS BY CANADIAN AEROSPACE SERVICES LTD. FROM TRI-METROGON PHOTOGRAPHY.
2. RELATIVE HORIZONTAL ACCURACY OF THE MAP ±1 FT. IN 10 FT.
3. RELATIVE ACCURACY OF FORM LINES ±10 FT.
4. VERTICAL DATUM IS MEAN SEAL LEVEL.

LEGEND:
WATER/LAKE
POL
TELEPHONE
WATER LINE
GRAVEL ROADWAY

REDUCED DRAWING FOR INFORMATION ONLY
SCALE IS REPRESENTATIVE OF FULL SIZE DRAWING.

1	21 JAN 09	REV AS PER REDLINES	J.G.	S.B.
No.	DATE	REVISION	REVISION	DRN. APPR

SITE RECORD DRAWING

80 0 80 160 240 320metres
80 0 80 160 240 320mètres

SCALE - ÉCHELLE
1 : 4000

PROJECT - PROJET
CM-66431
LONG RANGE RADAR SITE

FOX-M

HALL BEACH
TRADE - MÉTIER
SITING

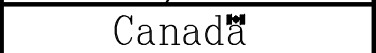
NUNAVUT
DATE
29 APR 02

SUBJECT - SUJET

SITE PLAN

PRODUCTION	CONCURRENCE - ASSENTIMENT	
DESIGNED ÉTUDIÉ	FIRE MARSHAL	PRÉVOT DU SERVICE DES INCENDIES
DRAWN DESSINÉ	K.R.	
CHECKED VÉRIFIÉ	T.R.	NWSO ENGINEERING OFFICER OFFICIER DU GENIE BSAN
COORDINATION		NWSO FACILITIES ENGINEER GENIE DES INSTALLATIONS BSAN

DWG. NO. - DESSIN NO.
H-H11/2-8400-101






NOTE: REDRAWN AS A RESULT OF DEW LINE CLEAN UP ACTIVITY.

H-H11/2-8400-102

FOX-M





National
Défense

Défense
nationale

NORTH WARNING SYSTEM OFFICE
Bureau du système d'alerte du Nord

LOCATION





NOTES:

1. THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS BY CANADIAN AEROSPACE SERVICES LTD. FROM TRI-METROGON PHOTOGRAPHY.

2. RELATIVE HORIZONTAL ACCURACY OF THE MAP ±1 FT. IN 10 FT.

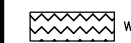
3. RELATIVE ACCURACY OF FORM LINES ±10 FT.

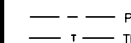
4. VERTICAL DATUM IS MEAN SEAL LEVEL.


5. APPROXIMATE AREA OF COMMUNITY AIRPORT OPERATIONS.


6. CONTOURS ARE IN FEET.

LEGEND:

 WATER/LAKE

 POL

 TELEPHONE

 GRAVEL ROADWAY

REDUCED DRAWING FOR INFORMATION ONLY

SCALE IS REPRESENTATIVE OF FULL SIZE DRAWING.

2	21 JAN 09	REDRAWN AS PER REDLINES	J.G.	S.B.
1	18 OCT 07	REV AS PER XL-36363	J.G.	
No.	DATE	REVISION	REVISION	DRN. APPR

SITE RECORD DRAWING

80 0 80 160 240 320metres

80 0 80 160 240 320mètres

SCALE - ÉCHELLE

1 : 4000

PROJECT - PROJET

CM-66431

LONG RANGE RADAR SITE

FOX-M

HALL BEACH

TRADE - MÉTIER

SITING

NUNAVUT

DATE

29 APR 02

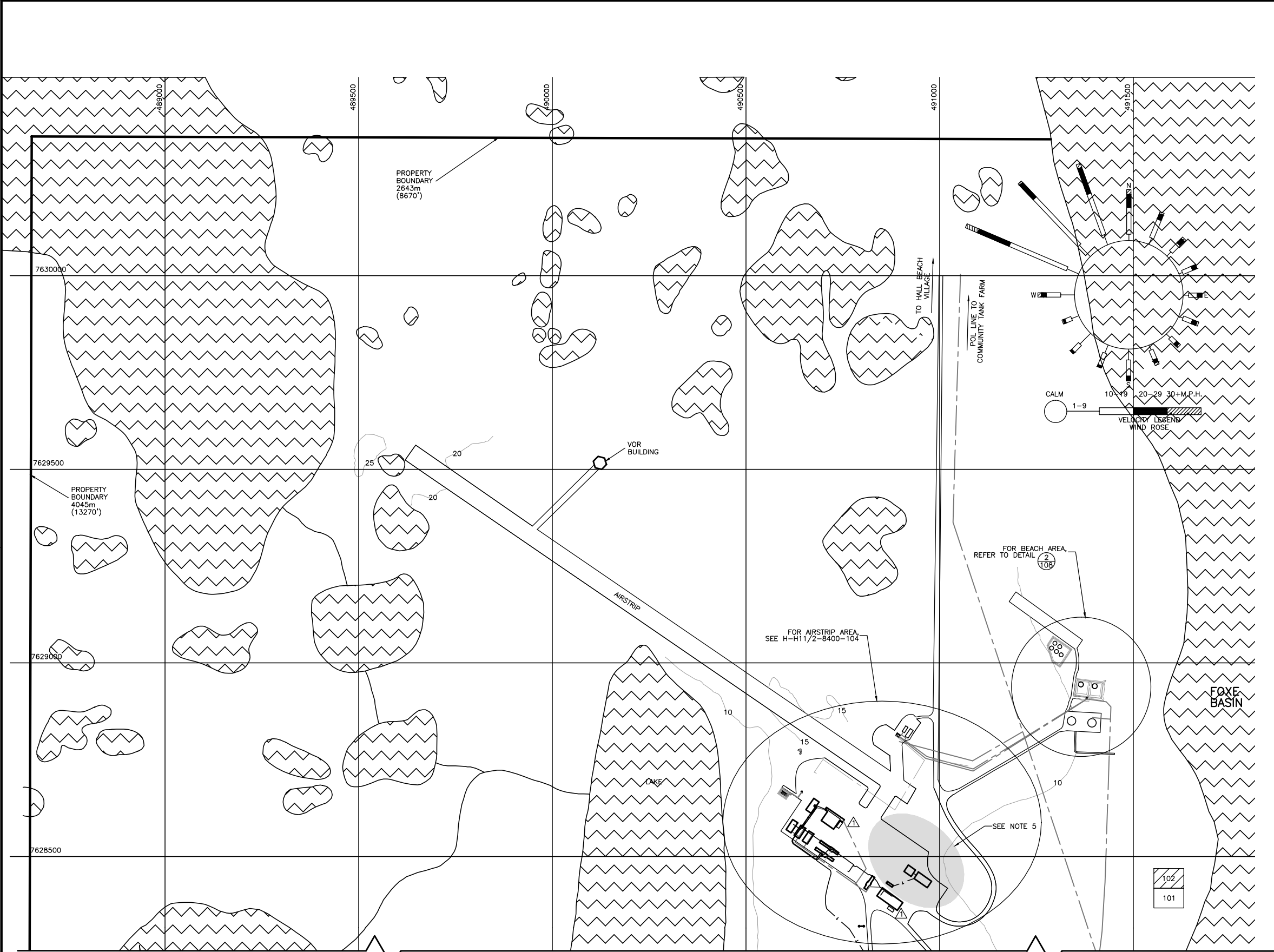
SUBJECT - SUJET

SITE PLAN

PRODUCTION	CONCURRENCE - ASSENTIMENT	
DESIGNED ÉTUDIÉ	FIRE MARSHAL	PRÉVOT DU SERVICE DES INCENDIES
DRAWN DESSINÉ	K.R.	
CHECKED VÉRIFIÉ	T.R.	NWSO ENGINEERING OFFICER
COORDINATION		NWSO FACILITIES ENGINEER
OFFICIER DU GÉNIE BSAN		
GÉNIE DES INSTALLATIONS BSAN		

DWG. NO. - DESSIN NO.
H-H11/2-8400-102

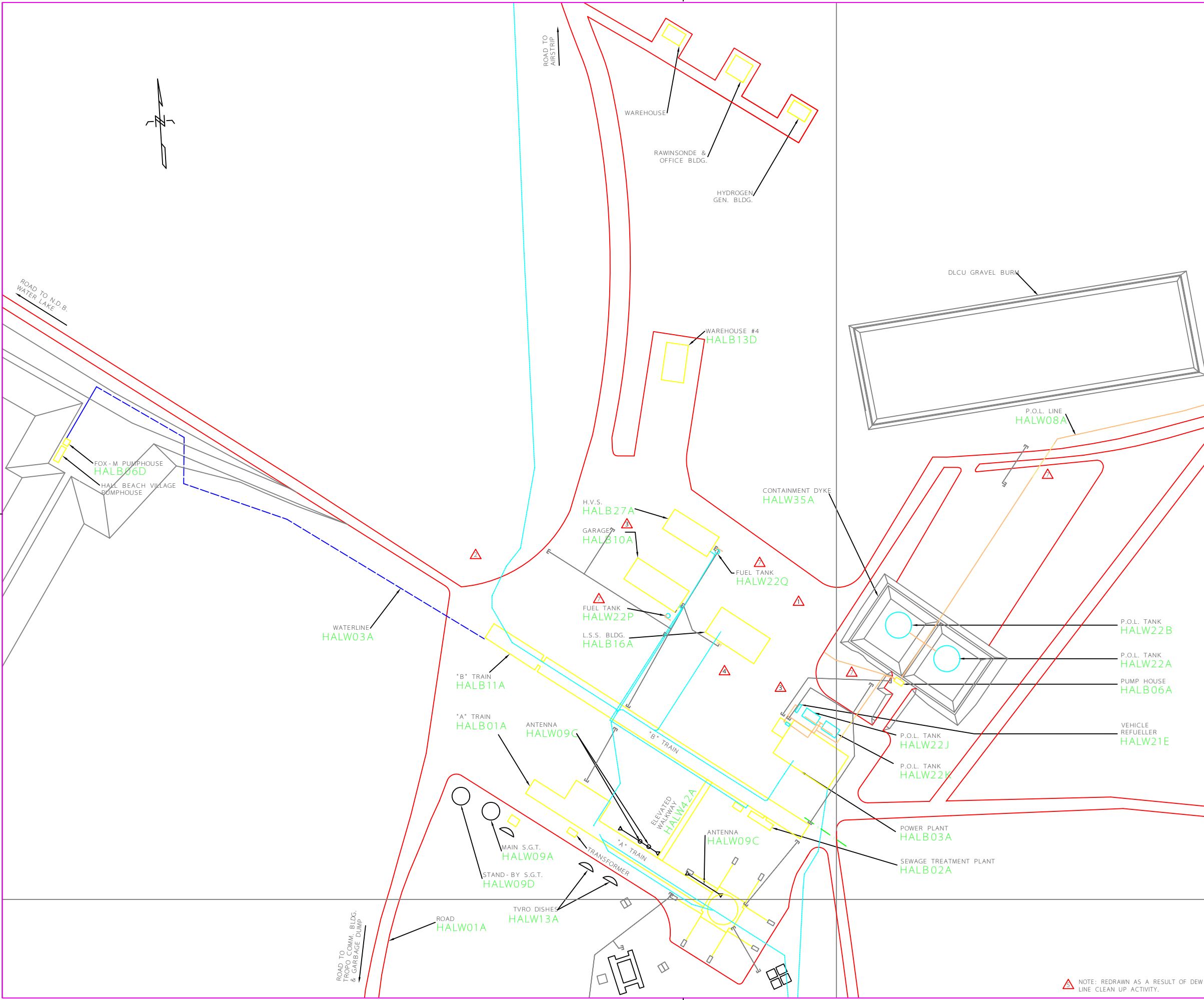
Canada




NOTE: REDRAWN AS A RESULT OF DEW LINE CLEAN UP ACTIVITY.

H - H11/2 - 8400 - 105

FOX - M

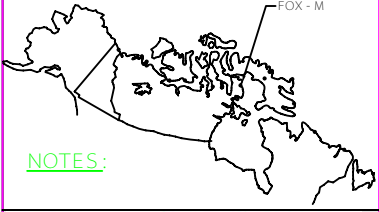




National
Défense

Défense
nationale

NORTH WARNING SYSTEM OFFICE
Bureau du système d'alerte du Nord

LOCATION


FOX - M

NOTES:
1. SAFETY ANCHORS INSTALLED ON SGT ANTENNAS. REFER TO PROJECT A0460 AND NWR 821-386-16

LEGEND:
— ABOVEGROUND POL LINE
— DECOMMISSIONED UNDERGROUND POL LINE
— UNDERGROUND POL LINE
— TELEPHONE
— WATER LINE
— SEWAGE LINE
— GRAVEL ROADWAY

REDUCED DRAWING FOR INFORMATION ONLY
SCALE IS REPRESENTATIVE OF FULL SIZE DRAWING.

NO.	DATE	REVISION	REVISION	DRN.	APPR.
7	13 SEP 12	REV. AS PER XL-59594		A.S.	B.M.
6	04 FEB 10	REVISED AS PER NQ-55493		J.G.	
5	21 JAN 09	REDRAWN AS PER REDLINES		J.G.	S.B.
4	06 MAY 05	ANTENNAS REMOVED		P.C.	
3	28 SEPT 04	REV AS PER NQ-12375		K.R.	
2	13 SEPT 04	AS PER LOCID CORRECTION		K.R.	
1	12 NOV 03	REVISED AS PER XL-66043		F.P.	

SITE RECORD DRAWING
0 0 20 40 60 metres
metres

SCALE - ÉCHELLE
1 : 750

PROJECT - PROJET
CM - 66431
LONG RANGE RADAR SITE
FOX - M

HALL BEACH
TRADE - MÉTIER
SITING
NUNAVUT
DATE
29 APR 02

SUBJECT - SUJET
SUMMIT
LOCID PLAN

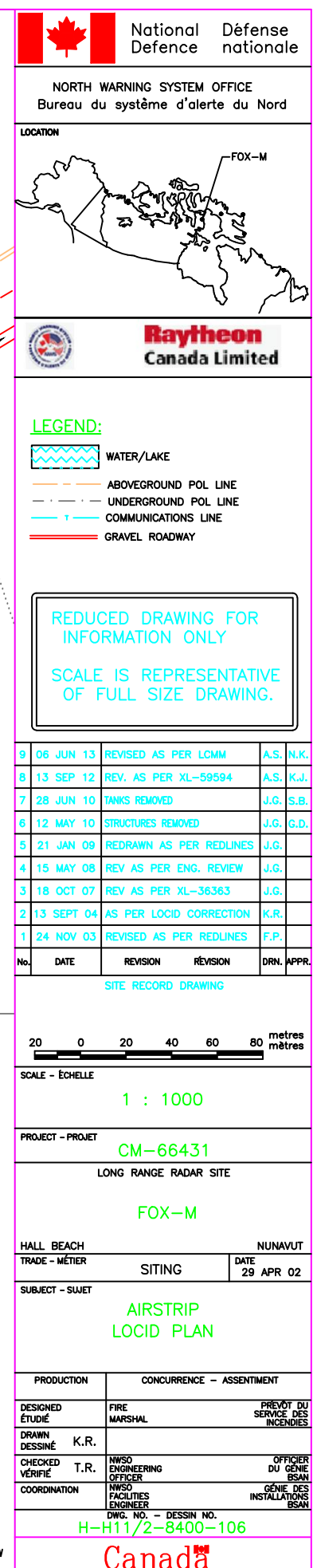
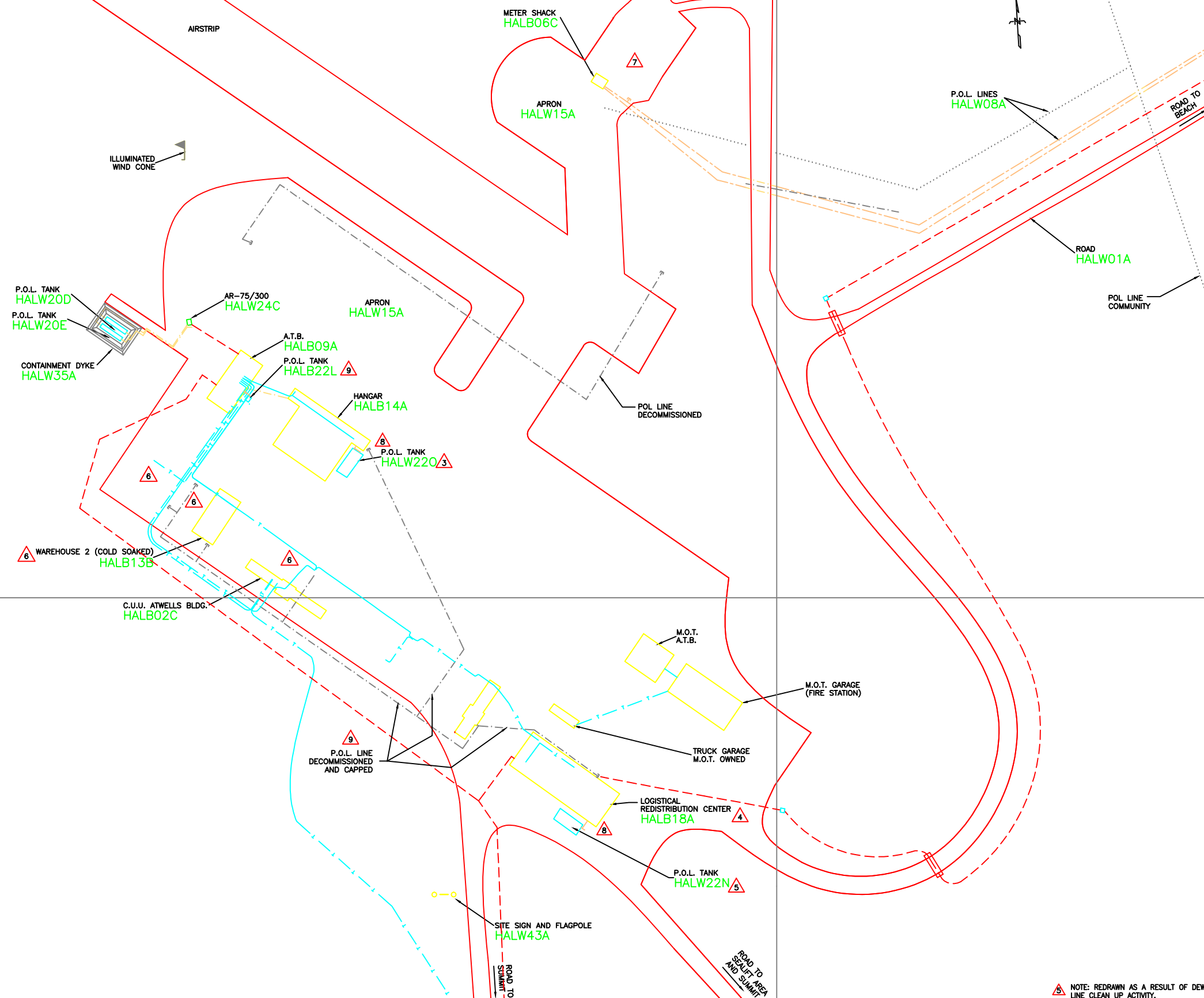
PRODUCTION	CONCURRENCE - ASSENTIMENT
DESIGNED ÉTUDE K.R.	FIRE MARSHAL PRÉVOT DU SERVICE DES INCENDIES
DRAWN DESSIN T.R.	ENGINEERING OFFICER OFFICIER DU GÉNIE BSAN
CHECKED VÉRIFIÉ T.R.	ENGINEERING OFFICER OFFICIER DU GÉNIE BSAN
COORDINATION	ENGINEERING OFFICER OFFICIER DU GÉNIE BSAN

DWG. NO. - DESSIN NO.
H - H11/2 - 8400 - 105

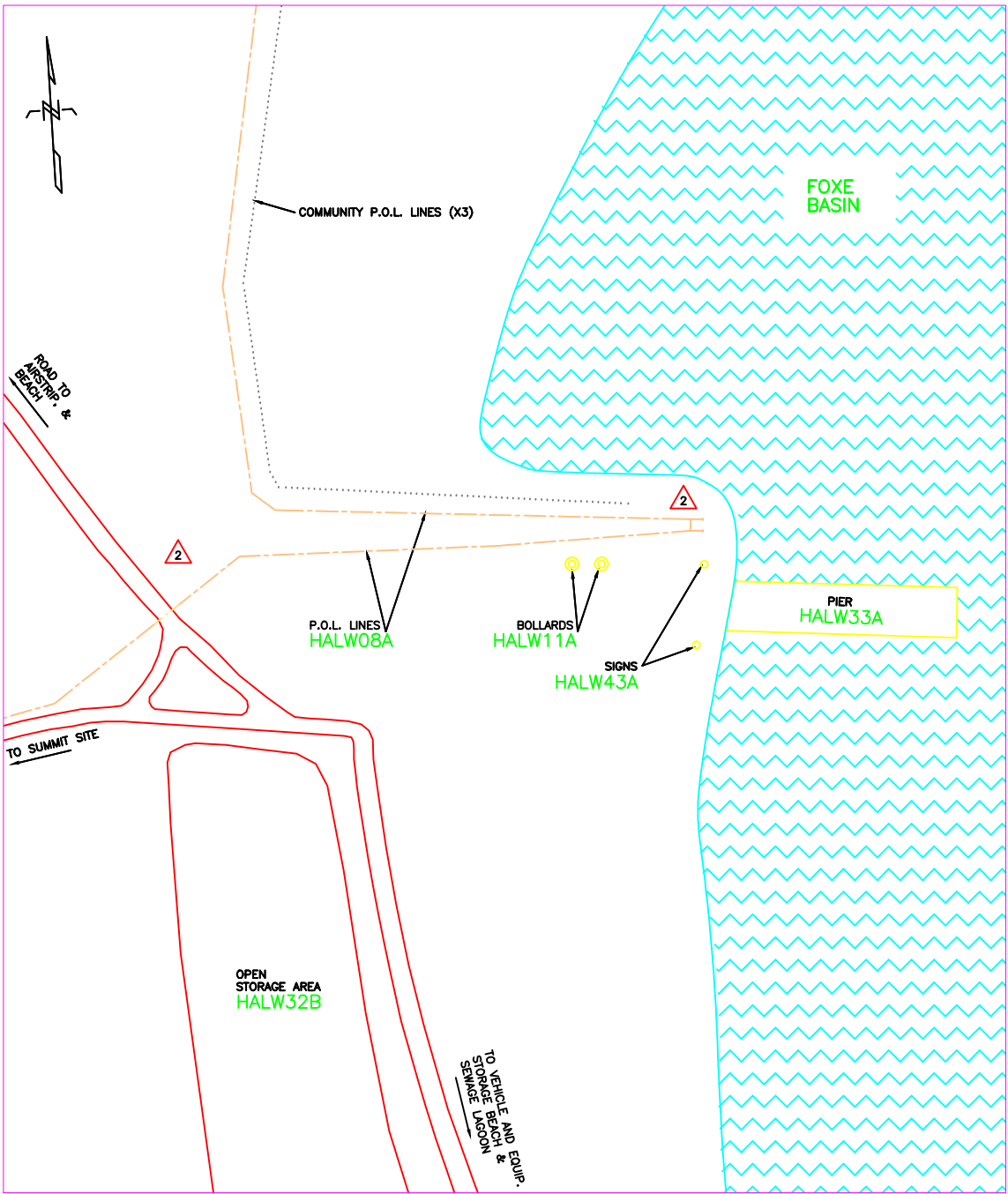
Canada

NOTE: REDRAWN AS A RESULT OF DEW LINE CLEAN UP ACTIVITY.

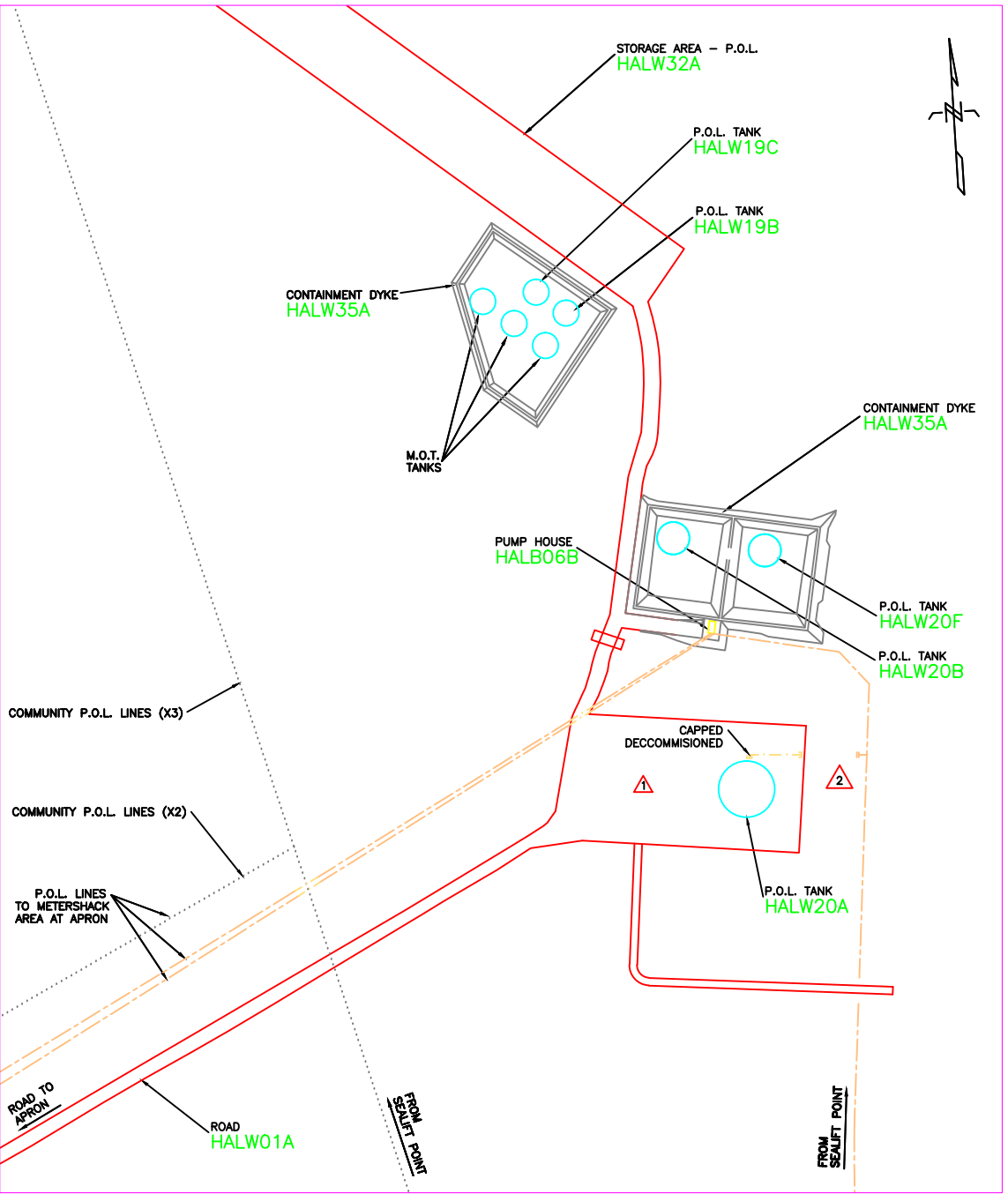
FOX-M



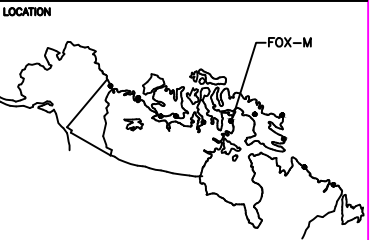
5 NOTE: REDRAWN AS A RESULT OF DEW
LINE CLEAN UP ACTIVITY.







1 SEALIFT LOCID PLAN
101 SCALE = 1:1000



2 BEACH LOCID PLAN
102 SCALE = 1:1000



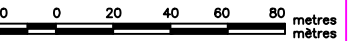
LEGEND:

-  WATER/LAKE
-  P.O.L. LINE
-  UNDERGROUND POL LINE
-  GRAVEL ROADWAY

REDUCED DRAWING FOR
INFORMATION ONLY
SCALE IS REPRESENTATIVE
OF FULL SIZE DRAWING.

2	13 SEP 12	REV. AS PER XL-59594	A.S.	B.M.
1	12 MAY 10	STRUCTURES REMOVED	J.G.	G.D.
0	21 JAN 09	ADD AS PER REDLINES - DWG REPLACES 8400-107	J.G.	
No.	DATE	REVISION	REVISION	DRN. APPR.

SITE RECORD DRAWING



SCALE - ÉCHELLE
1 : 1000

PROJECT - PROJET

LONG RANGE RADAR SITE

FOX-M

HALL BEACH NUNAVUT
TRADE - MÉTIER SITING DATE 21 JAN 09

SUBJECT - SUJET
SEALIFT AND BEACH
LOCID PLANS

PRODUCTION	CONCURRENCE - ASSENTIMENT	
DESIGNED ÉTUDIÉ	FIRE MARSHAL	PRÉVOT DU SERVICE DES INCENDIES
DRAWN DESSINÉ	J.G.	
CHECKED VÉRIFIÉ	S.B.	NWSO ENGINEERING OFFICER OFFICIER DU GÉNIE BSAN
COORDINATION		NWSO FACILITIES ENGINEER GÉNIE DES INSTALLATIONS BSAN

DWG. NO. - DESSIN NO.
H-H11/2-8400-109