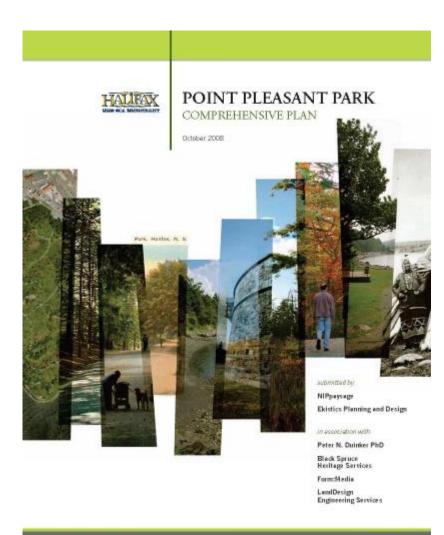
HALIFAX

Point Pleasant Park: Park Fortifications

Overview for the PPP Advisory Committee

Point Pleasant Park



Point Pleasant Park Comprehensive Plan

Completed in 2008

NIPpaysages Ekistics Planning & Design

In association with

- LandDesign Engineering Services
- Peter N. Duinker PhD
- Black Spruce Heritage Services
- Form:Media

www.pointplessantpark.c

Territal door

Point Pleasant Park



Point Pleasant Park Comprehensive Plan

- Guiding Principles
- Management
 Frameworks for forest,
 shoreline and cultural
 assets
- Park Development Plans

Point Pleasant Park 2010-11 Park Infrastructure Projects



Infrastructure Stimulus Fund Initiative

Total Project Value \$2,000,000

Federal, Provincial and HRM joint funding

Upgrades to parking lots, roadways, and fortification stabilization

Point Pleasant Park



2010-2011 ISF Projects

Fortification stabilization:

- Northwest Arm Battery
- Cambridge Battery
- Fort Ogilvie

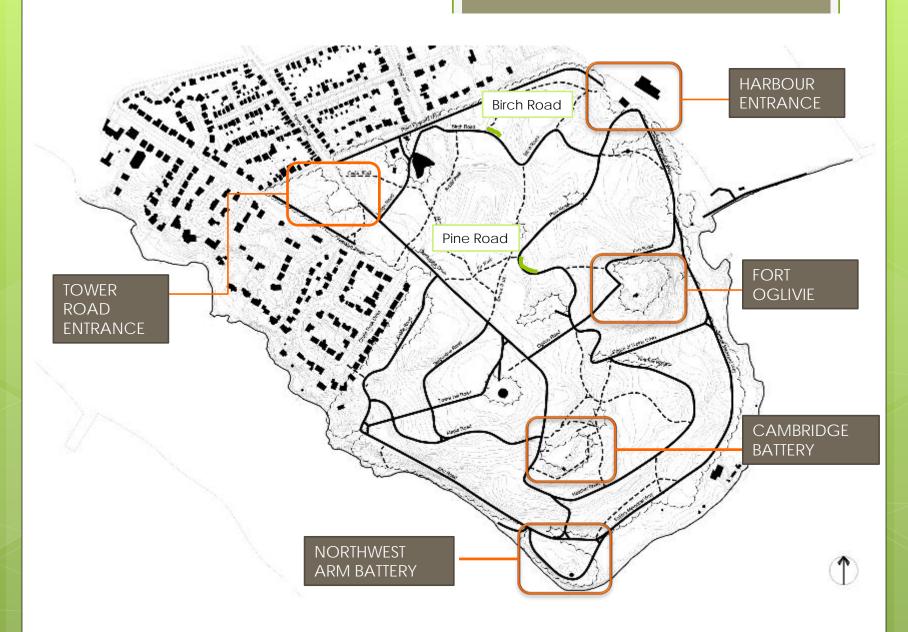
Parking Lot Upgrades:

- Tower Road Entrance
- Harbour Entrance

Road and pathways:

 Pine Road and Birch Road stonewall reconstruction

Point Pleasant Park



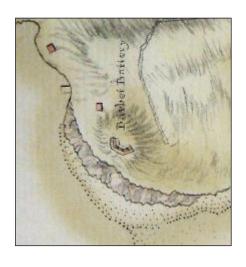
Smooth-Bore Armament: 1749-1860's



Smooth-bores at York Redoubt



Smooth-bore at Citadel Hill

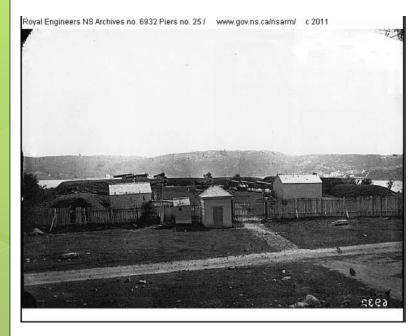


The Northwest Arm Battery as depicted in a military plan of 1778.



Northwest Arm Battery in 1858 with external barracks

First constructed in 1762; obsolete by 1860's with the construction of Cambridge Battery





Northwest Arm Battery in 1870

Rifled Muzzle Loader: 1861 - 1885

"The introduction of rifled ordnance in 1859 was followed almost immediately by a period of radical reconstruction of fortifications, characterized by extensive use of masonry and concrete substructures and easements."



RML at Citadel Hill

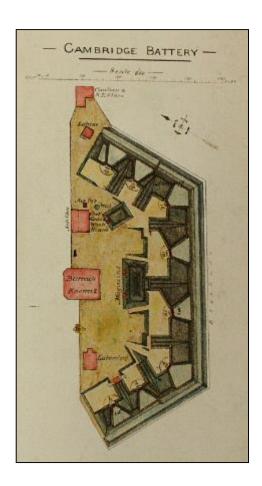


RML's at York Redoubt

Cambridge Battery

Original Construction 1862-1868 Six years to build Total Cost 8,120 British Pounds

Remodeled in 1897-1904 Two new concrete gun emplacements built for 6" BL's (Mark VII)









Breech-Loaders & Quick-firing Breech Loaders: 1886 - 1906







Fort Ogilvie Mark VII; November, 2010



Remodeled in 1897-1904 Two new concrete gun emplacements built for breech-loaders

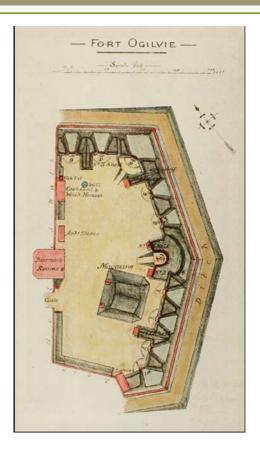
Fort Ogilvie

Fort Ogilvie



Fort Ogilvie c. 1800. Detail from "Plans of Several of the Batterys at Point Pleasant n.d. 1800," NSARM REO v.1.

1793 – first construction 1862-1872 remodeled for RML's



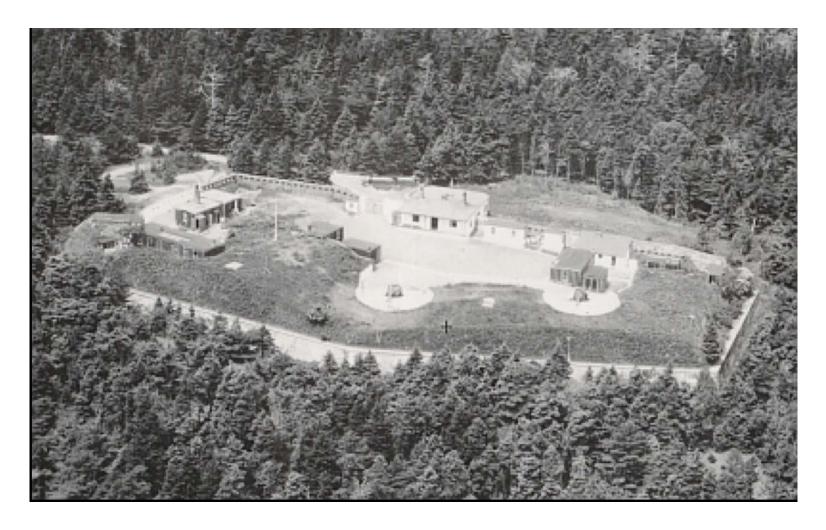
Fort Ogilvie c.1878 Redesigned in response to the American Civil War. NSARM Photographs Army 1771-1772.

Fort Ogilvie

1890's – remodeled for Breech-loaders 1890's to WWII – submarine observation station 1946 – declared obsolete 1960's – buildings demolished, rear wall entombed



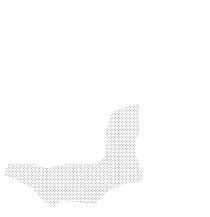
Fort Ogilvie



Fort Ogilvie as represented in a 1929 oblique aerial photograph









AREA TO BE GRUBBED AND SODDED

TEMPORARY FENCING





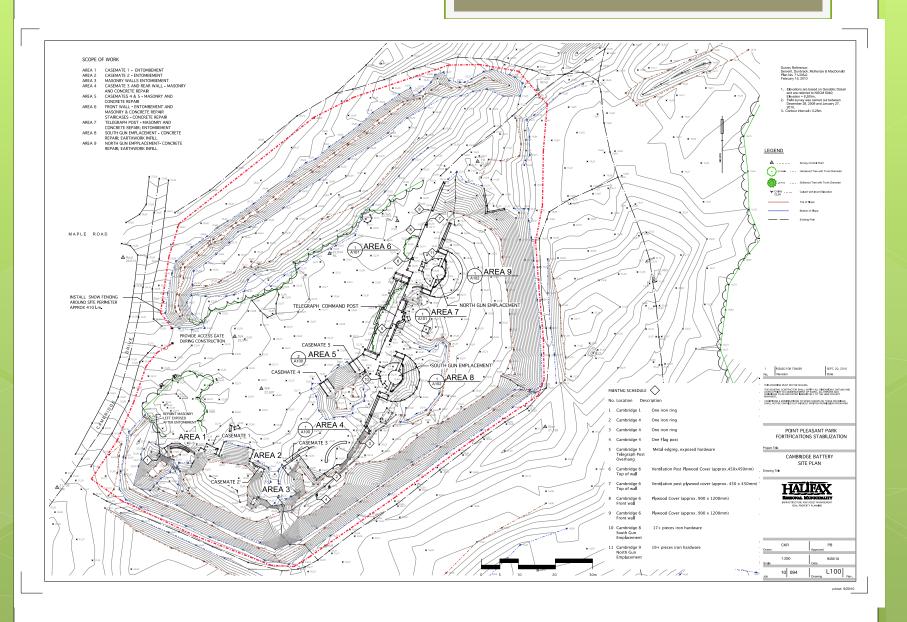


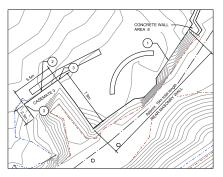










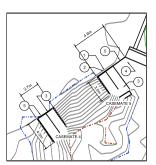






- REAR WALL: REPOINT ALL MASONRY JOINTS AS PER SPECIFICATIONS. WALL DIMENSIONS APPROX. 19.0m LENGTH BY MAX. 1.5m HEIGHT
- REBRICK ARCHWAY IN CASEMATE 3 USING REPLACEMENT BRICKS FROM HRM STOCKPILE OR APPROVED EQUIVALENT. NEW BRICKS TO MATCH ORIGINALS IN COLOUR AND TEXTURE.
- REPLACE MISSING CORNER STONES ON CASEMATE 3.
 REPOINT ALL EXPOSED MASONRY JOINTS AS PER
 SPECIFICATIONS.









CASEMENT 3 - Front Elevation



CASEMENT 3 - Side Elevation



CASEMENT 5







CASEMENT 3 - North Corner

POINT PLEASANT PARK FORTIFICATIONS STABILIZATION CAMBRIDGE BATTERY
MASONRY & CONCRETE REPAIR
AREAS 4 & 5

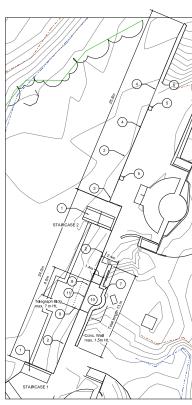
THE GENERAL CONTRACTOR SHALL VEHEY ALL DIRECTIONS, DATUMS LOVELS FROM TO COMMERCEMENT OF WORK, ALL DRIVING AND DISESSED TO BE REPORTED INVESTMENT, TO THE HIM PROJECT MANAGEM. VARIATIONS MODERATIONS TO WORK SHOWN ON THESE CHAMPOS SHALL NOT BE CARRED OUT MITHOUT WHITTIN PRIVABILITY FROM



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Scale	AS NOTED	9/20/10 Date
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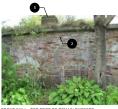
- REMOVE WOODEN LATTICE FOR REUSE BY HRM. STORE IN PARK AS DIRECTED.
- REPLACE WOODEN SUPPORTS BEHIND LATTICE WITH 4
 X 4 PRESSURE TREATED TIMBER. SEAL WOOD WITH
 THOMPSON WATER SEAL OR EQUIVALENT AS PER
 MANUFACTURER'S INSTRUCTIONS.
- 4. REFORM EDGES OF CONCRETE ROOF SLAB.
- REPOINT STONE MASONRY WALLS AS REQUIRED FOR STABILITY AND WATER PENETRATION.





AREA 6 - FRONT WALL AND CONCRETE STAIRCASES

- CONCRETE STAIRCASES: REFORM EDGES OF STEPS WHERE VOIDS ARE GREATER THAN A 50mm LOSS TO EDGES
- REPAIR TOP FOUR (4) COURSES OF BRICKS ALONG FRONT WALL TO STABILIZE. THIS AREA WILL BE LEFT EXPOSED AFTER ENTOMBEMENT.
- REFORM MISSING PORTIONS OF CONCRETE OVERHANG TO ORIGINAL, UNIFORM PROFILE.
- REMOVE PLYWOOD ON TWO (2) WALL OPENINGS AND REPLACE WITH NEW MARINE GRADE PLYWOOD. INSTALL USING A MASONRY MORTAR TO SEAL EDGES. PAINT AS PER SPECIFICATIONS.
- CUT IRON BOLT FLUSH WITH TOP OF WALL.



FRONT WALL - TOP EDGE TO REMAIN EXPOSED



FRONT WALL - CONCRETE CAP TO BE REFORMED



FRONT WALL - NORTH END



AREA 7 - TELEGRAPH COMMAND POST

NOTE: REPAIRS OF WALL TO BE COMPLETED BEFORE ENTOMBEMENT

- 7. REPAIR ALL CONCRETE TO STABILIZE AS PER SPECIFICATIONS
- 8. REPAIR BRICKWORK TO STABILIZE.
- IRON OVERHANG: ALL METAL EDGES TO BE REPAIRED AND PAINTED. STABILLIZE WITH SMALL WELDED SCARF REPAIRS. CLEAN AND PAINT AS PER SPECIFICATIONS.
- 10. ALL EXPOSED IRON HARDWARE TO BE PAINTED



TELEGRAPH POST - NORTH SIDE BACK



TELEGRAPH POST - NORTH SIDE FRONT



TELEGRAPH POST OVERHANG



POINT PLEASANT PARK FORTIFICATIONS STABILIZATION

CAMBRIDGE BATTERY MASONRY & CONCRETE REPAIR AREAS 6 & 7





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Scale	AS NOTED	9/20/10 Date
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TELEGRAPH POST - FRONT OF WALL



NORTH GUN EMPLACEMENT:









REAR WALL

SOUTH GUN EMPLACEMENT:







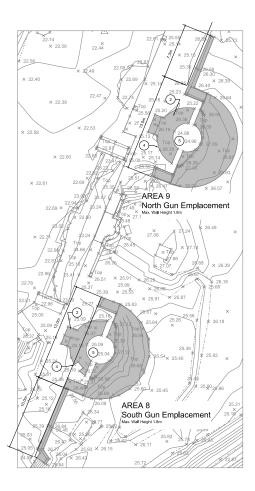






AREAS 8 & 9: CONCRETE GUN EMPLACEMENTS

- 1. REPAIR ALL CRACKS BY INJECTIONS AS PER SPECIFICATIONS
- REFORM FRONT PLATFORM EDGE AND STEPS TO MATCH ORIGINAL PROFILE.
- 3. PATCH VOIDS AS PER SPECIFICATIONS
- CLEAN AND PAINT ALL IRON HARDWARE AS PER SPECIFICATIONS
- DO NOT REPAIR CONCRETE AREAS TO BE COVERED BY FILL. IN INNER CIRCULAR GUN PITS. FINISH GRADES 450mm BELOW TOP OF PLATFORM.





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	REVANDS MUST NOT BE SCALED.	
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	FORTIFICATIONS STA	ABILIZATION
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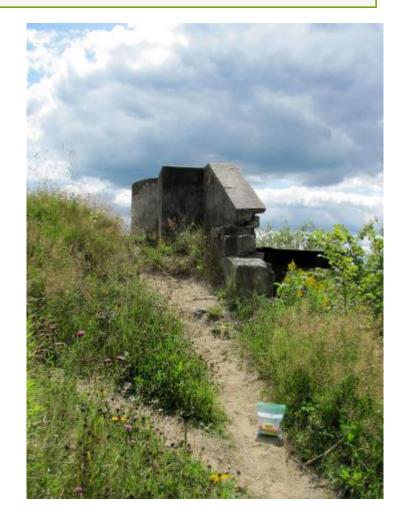




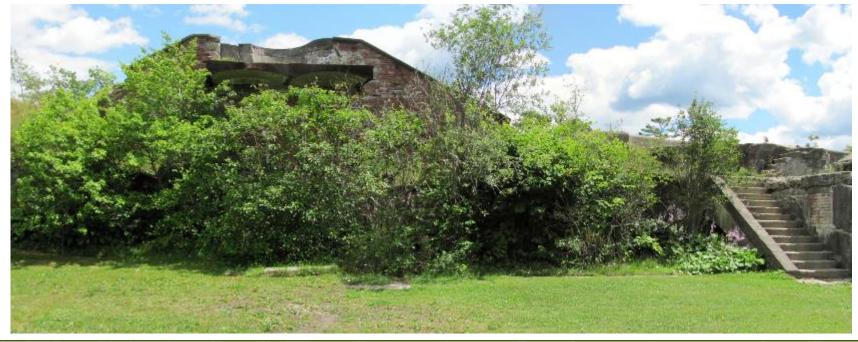
Cambridge Battery - 1958





























































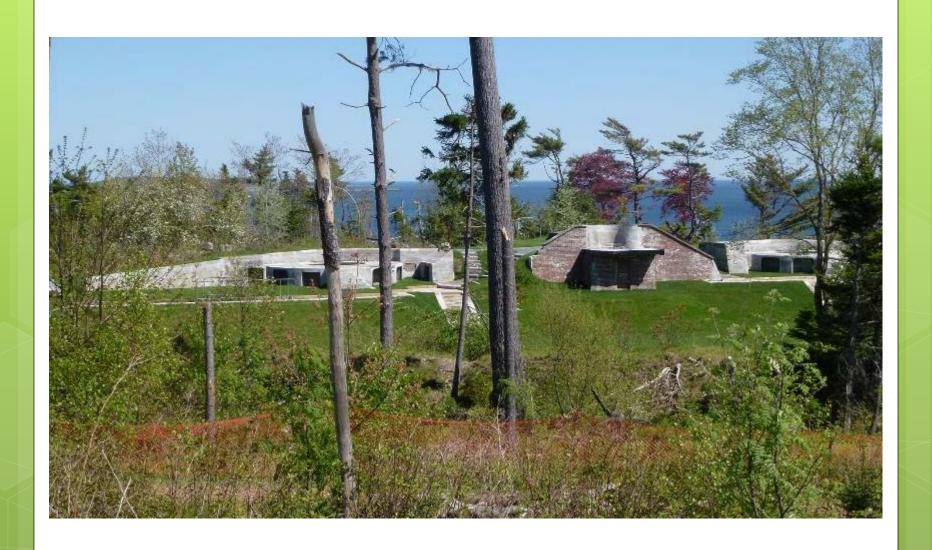




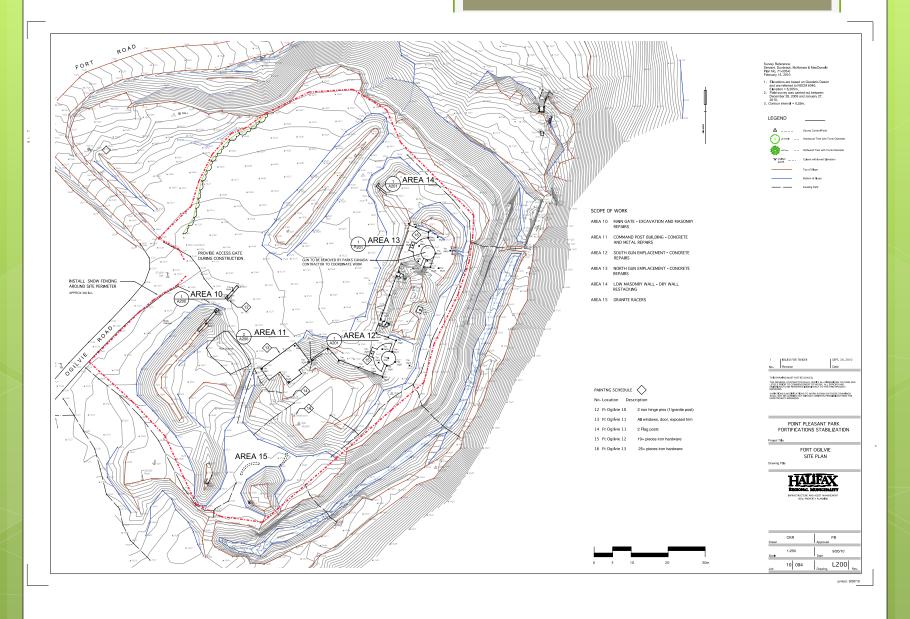


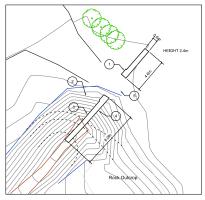












MAIN GATE:

- NE Gate Post & Wall: Repoint masonry as per Specifications. Remove all unstable parging. Repoint brick cap. Replace missing bricks.
- SW Gate Post & Wal: Excavate berned soil on each side to expose wall by hand as directed on site. Archeology monitoring required during excavation, Screen out rubble and stockpile at HRM storage facility in park.
- SW WALL: Stability of wall to be assessed by Engineer when exposed. Repoint masonry or re-entomb as directed by Engineer.
- Rebuild loopholes in southwest wall to match existing loopholes in northwest wall. Cut new stone to match originals if required.
- Reset granite gate racers to be level and flush with surrounding grades. Excavation to be monitored by Archeologist.



MAIN GATE - FRONT ELEVATION



MAIN GATE - REAR ELEVATION



GRANITE GATE RACERS





AREA 10 - MAIN GATE



COMMAND POST - NORTH SIDE ELEVATION



COMMAND POST - FRONT ELEVATION WINDOW COVERING SIZE: 600 x 1100mm to 1000 x 1300mm



COMMAND POST - SOUTH SIDE ELEVATION

THE GENERAL CONTRACTOR SHALL VEHEY ALL EMENSIONS, DATUMS AND LEVELY FROM TO COMMENCEMENT OF WORK, ALL DIRECTS AND GALLESAN TO BE REPORTED IMMEDIATELY TO THE HAM PROJECT WARMAND. VARIATIONS & MODIFICATIONS TO WORK SHOWN ON THOSE DRAWINGS SHALL NOT BE CARRIED OUT WITHOUT WRITTEN PERMISSION FROM HRM.

SEPT. 20, 2010

POINT PLEASANT PARK FORTIFICATIONS STABILIZATION

FORT OGILVIE MASONRY & CONCRETE REPAIR AREAS 10 & 11

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- REPAIR CONCRETE AND PARGING ON ALL FOUR WALLS AS PER SPECIFICATIONS, WORK INCLUDES PATCHING AND CRACK INJECTION. ROOF?
- METAL DOOR: REMOVE BY CUTTING SPOT WELDS.
 REPAIR METAL AS PER SPECIFICATIONS. DOOR TO BE
 RE-INSTALLED AS PER ORIGINAL AND SPOT-WELDED
 BACK IN PLACE. ENSURE OPENING IS SECURED DURING
 REPAIRS.
- FABRICATE AND INSTALL TWO WINDOW COVERINGS TO REPLACE PLYWOOD USING 1/4" (6mm) IRON SHEET METAL.
- CLEAN AND PAINT ALL IRON HARDWARE, WINDOW COVERS AND FRAMES, AND DOOR AS PER SPECIFICATIONS. REPAIR MORTAR SEALS AROUND WINDOWS TO MAKE SECURE WITH CONCRETE MORTAR MIX.



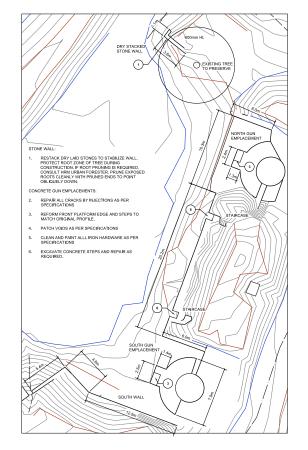
COMMAND POST - BACK ELEVATION



AREA 11 - COMMAND POST Scale 1:125



METAL DOOR - 1200 x 2400 mm







DRY STACKED STONE WALL

NORTH STAIRCASE



SOUTH STAIRCASE



NORTH GUN EMPLACEMENT AND CENTER WALL



NORTH GUN EMPLACEMENT - GUN AND STAND TO BE REMOVED BY OTHERS



NORTH GUN EMPLACEMENT



SOUTH GUN EMPLACEMENT



SOUTH WALL

1	ISSUED FOR TENDER	SEPT - 20, 2010
No.	Revision	Date
	BIRKL CONTRACTOR SHALL VERKING PRIOR TO COMMENCEMENT OF WO INS TO BE REPORTED INMEDIATELY	

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Declare Title

FORT OGILVIE MASONRY & CONCRETE REPAIR AREAS 12 to 14



ERGIFORMA MUNICIPALITY FRASTRUCTURE AND ASSET MANAGE REAL PROPERTY PLANNING

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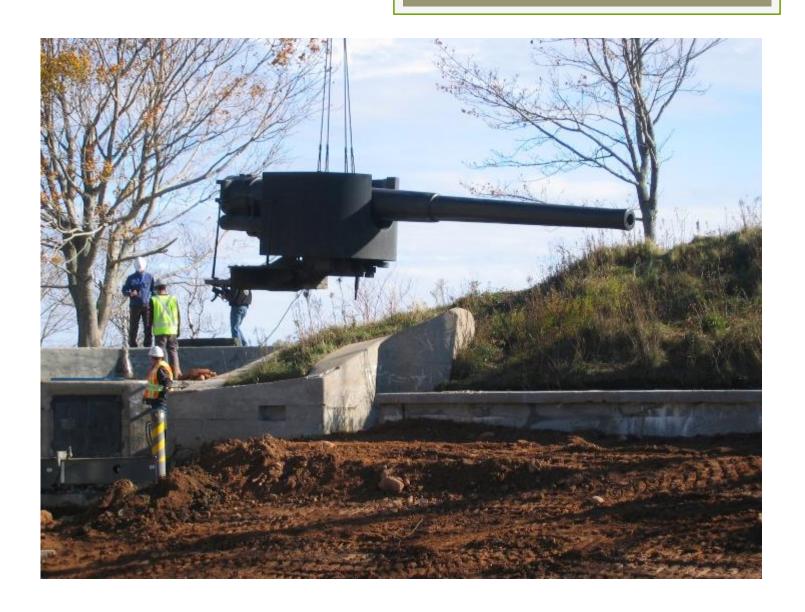


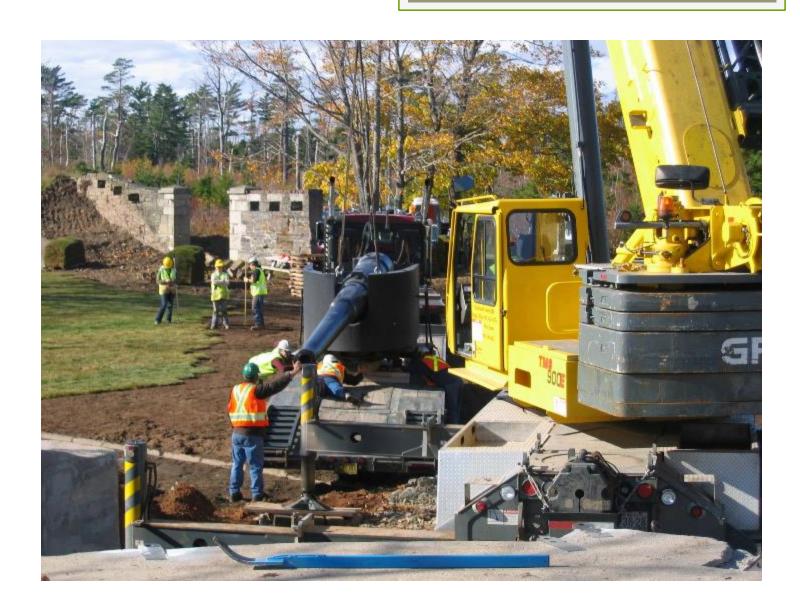


















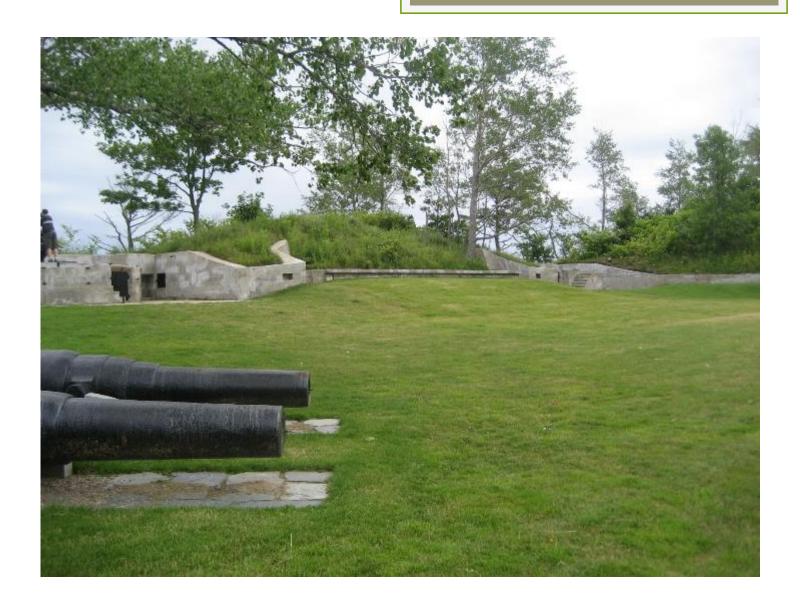








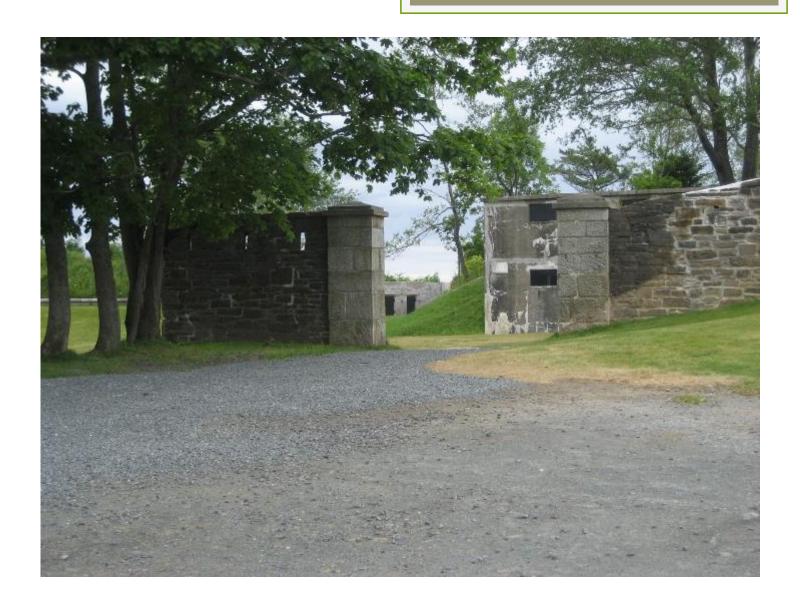


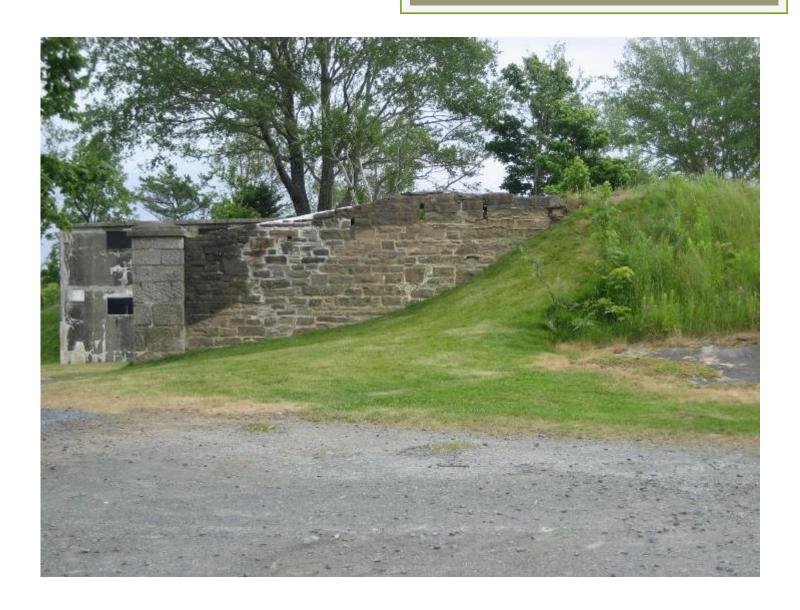




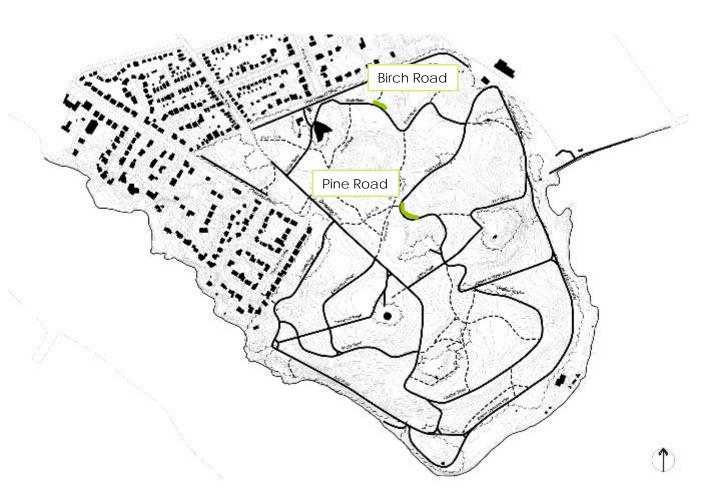








Pine & Birch Road



Pine Road Stone Wall





Pine Road





Birch Road

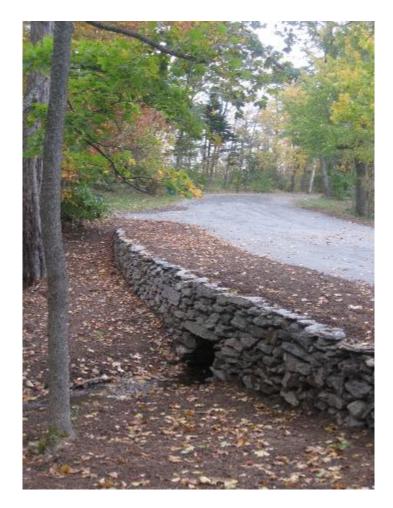
Birch Road Stone Wall & Culvert





Birch Road







Thank you

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