

**Amherst Island Wind Energy Project
Irish Stone Fence Detailed Review**

File No. 160960595



Prepared for:
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December 6, 2016

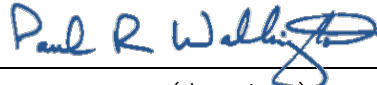
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Sign-off Sheet


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Glossary

Batter	The slope (taper) of a wall or hedge, expressed as an angle or as a ratio of horizontal to vertical dimensions.
Bed	Deposition layer in sedimentary rock. In walling, the flattish base of a stone or any plane along which it splits readily.
Buck-and-doe	A form of coping alternating large and small upright topstones. Also known as cock-and-hen.
Coping	The line of stones along the top of the wall which protects the structure beneath. Also known as the cap, comb, cope or topping.
Course	A layer of stones in the face of a wall or hedge.
Coverband	A layer of throughstones placed on top of the double dyking to anchor it and form a base for the coping
Dyke	A wall (Scotland). Also spelled dike.
Face	An exposed side of a wall, hedge or bank.
Fence	A structure serving as an enclosure, barrier or boundary, loosely used to include walls, hedges banks, ditches and dykes.
Flag	A thin-bedded sandstone which breaks up readily into flat slabs. Loosely used for a flat slab of any type.
Gap	A breach in a wall due to defect or damage. (Verb) To fall, leaving a breach; to repair a breach.
Head	The smooth, vertical end of a wall or section of wall. Also known as a cheek.
Herringbone	A type of stone facing in which alternate courses of stones are angled in opposite directions.
Joint	In walling, the crack between two adjacent stones in a course.
Pinnings	Small stones wedged into spaces in a wall face.
Rag	Any of several kinds of hard coarse rock, mainly limestones, which break irregularly. Also known as ragstone.
Rubble	Rough, mainly untrimmed, walling stone; walls or copings characterized by such stone.
Through	A large stone placed across the width of a wall to tie the sides together. Also known as throughstone, throughband or tieband
Tie	A throughstone used in a wall head.
Topstone	A stone used in a wall's coping. Also known as a cope stone, topper or topping.
Wedge	A small stone placed under or behind a face stone to position it securely.

1.0 OVERVIEW

Algonquin Power (on behalf of Windlectric Inc.) is developing the Amherst Island Wind Energy Project (the Project), a Renewable Energy Approval (REA) approved (REA #7123-9W9NH2) a 75MW wind energy project on Amherst Island, located within Loyalist Township in the County of Lennox and Addington in eastern Ontario. The project will include construction of up to twenty-six (26) Siemens wind turbines. The REA Schedule B identifies the location of twenty-seven (27) potential sites.

The Project will also include a 34.5 kilovolt (kV) underground and/or overhead electrical power line collector system, fibre optic data lines from each turbine and/or wireless technology for the communication of data, a transmission line, truck turnaround areas, a submarine cable, an operations and maintenance building, permanent dock, a substation, a switching station, one connection point to the existing electrical system, cable vault areas, meteorological towers, access road to the met tower site, and turbine access roads with culvert installations, as required, at associated watercourse crossings.

Temporary components during construction may include staging areas for the turbines, access roads, meteorological tower(s), collector lines and transmission line as well as crane paths, a temporary dock, site office(s), batch plant, central staging areas, and associated watercourse crossings. The electrical power line collector system would transport the electricity generated from each turbine to the substation, along the submarine cable to the mainland and then to a switching station located near to an existing Hydro One Networks Inc. 115 kV transmission line.

1.1 PURPOSE

Condition M6 (1) of the REA states that “With respect to the dry stone walls, the Company shall: (1) Prepare a detailed written and photographic documentation of their condition prior to Construction”. This document represents the execution of the recommendations from the REA application and Condition M6 (1) of the REA.

This document contains the findings of our review of the identified dry stone fences on Amherst Island.

1.2 SCOPE

Stantec Consulting Ltd. were engaged by the Client to conduct an assessment in order to document the condition of the walls and significance of the risk due to construction activity. The work includes obtaining a reasonable record of the wall construction and providing our opinion on the overall physical state of the wall.

There are 10 (ten) dry stone fences identified in the REA Condition M1.

- (1) 12405 Front Road/Emerald 40 Foot Road and Second Concession Road
- (2) 3190 Front Road
- (3) 3850 South Shore Road
- (4) 570 Front Road
- (5) 2400 Front Road
- (6) 2750 Front Road
- (7) 12485 Front Road
- (8) 12515 Front Road
- (9) 12675 Front Road
- (10) 13555 Front Road

1.3 METHODOLOGY

The principal approach to documenting the walls, given the accessibility constraints, was to document the visible portions in a methodical manner from the public right of way. The site visit was completed by two senior Stantec representatives, Paul R. Walkington, CET, rcca, LEED® AP, and Jeff Weng, P.Eng., M.Eng., MSc., both experienced in the construction and maintenance of heritage masonry structures. The site visit was conducted on Wednesday November 16, 2016, a sunny day without precipitation.

A photographic record of each wall was obtained at 5.0m intervals. Areas of significance or damage were examined and supplementary images obtained. The observations for each section of the wall and the overall condition rating for each individual wall are presented in Appendix A of this report.

The condition rating presented for each wall has been established by Stantec as a means of quickly describing physical condition in a single numerical value. Walls are rated from 1 to 5 based on our opinion of the contribution to each of the identified characteristics. Most of these qualities are considered subjective, however; several characteristics such as visibility and physical condition are measurable. The Stantec condition rating attempts to strike a balance between these properties.

For example;

1. a newly built or rebuilt wall, over 1.0m in height, well-constructed in the traditional manner, stable, in an area where a previous wall stood would be assigned a condition rating of 5
2. An original wall, barely visible, under 300mm in height and in a dilapidated condition with poorly performed repairs made using non-traditional materials and in a designated original location would receive a condition rating of 1.
3. An unstable wall that is highly visible, over 300mm in height but poorly constructed would be assigned a condition rating of 3.

In general, the condition rating is a quick reference for internal evaluation.

Following our site inspection, images of the wall sections were laid out and examined for joint defects, stability concerns, and changes in pattern, missing or demolished areas and various indicators of condition. Our comments are presented for each section of wall.

We were unable to review the wall located at municipal address 2400 Front Road as it is located too far (approx. 175m) from the main road. This report presents the findings of our direct observations made at nine of ten designated walls. Documentation and assessment of the wall generally located at 2400 Front Road is made from images obtained by a third party.

2.0 OBSERVATIONS

In general, we observed walls in various conditions ranging from barely visible to well-constructed in the traditional manner. Several walls have been reconstructed recently, such as the walls relocated in 2010 at 3850 South Shore Road and the Barn section on the 13555 Front Road which was undergoing reconstruction activities during our site visit (verbal conversation with landowner, 2016).

2.1 GENERAL OBSERVATIONS

To facilitate an understanding of the designated wall sections our general observations for each property are summarized below:

2.1.1 12405 Front Road/Emerald 40 Foot Road and Second Concession Road

The stone fence is on the west side of Emerald 40 Foot Road, starting at point in line with a barn located on the east side of the road, approximately 0.8 km south of Front Road. This stone fence varies significantly in height, texture, size of stone, tightness of joints, and evenness of bedding plane. It likely has gone through numerous reconstruction activities through the years. Several rough openings in the wall have been made to access various portions off the fields to the west. Much of the stone flag is missing.

We have assigned a condition rating of 2 for this fence.

2.1.2 3190 Front Road

The stone fence for this residence is at the east end of the property along Front Road, from west to east and is approximately 145 m long. Our reference point is at the west end of the fence, right pillar in front of the house. Overall observations are that the fence consists of limestone flag with occasional granite filled boulders. Where the fence is laid in the traditional manner it has tight joints and mostly level bedding planes. However; there are numerous reconstructions along the wall with noticeable change in pattern, joint tightness, and bedding levelness. Also the fence at this residence appears to have tilted inwards at several locations, indicating potential unstable condition. Bulging was observed in large wall sections. The batter for this wall is approximately 20 degrees but approaches vertical in many sections. From approximately 107 m (from the west starting point) and towards the east end (145m limit) the wall was demolished at several locations or reduced in height.

December 6, 2016

At the time of our site visit, tire tracks from a sizeable front end loader were visible in the vicinity, indicating recent reconstruction activities. Trees on the opposite side of the fence were knocked down and sections of bark removed. Many of the wall flag stone and throughs were damaged. It appears as if a large piece of equipment intentionally drove through the wall and cleared an area besides the previous wall opening and created access to the water.

Though the manner of construction is consistent with traditional dry stack stone fence, we have assigned a condition rating of 3 for this fence because of the potential unstable condition and bulges.

2.1.3 3850 South Shore Road

The stone fence at this residence is divided into five (5) individual sections, starting from east to west. We understand they were rebuilt in 2010 in a traditional manner. They are well constructed built with level bedding planes, tight joints, well distributed stone size and shapes. The walls contain vertical coping stones and granite boulder inclusions.

We assign a condition rating of 5 for these fence sections.

2.1.4 570 Front Road

The fence at this residence is constructed with granitic cobble stones mixed with limestones at random locations and at the top (the vertical coping). Though the wall appears uniform and well-constructed, the construction material and methodology do not appear to be consistent with traditional dry stack stone fences noted in this area. Many field granitic boulders have been used. These rounded boulders have questionable stability.

We assigned a condition rating of 3 for this fence.

2.1.5 2400 Front Road

This stone fence is located at the back of the property, close to Lake Ontario, and over 175 m away from Front Road. The stone fence was not accessible at the time of the site visit however images provided by a third party have been used in the evaluation and rating. These two wall sections run generally north – south unlike most of the walls along Front Road. Based on the images provided, the walls are considered to be in poor condition. They are single width and very low in height (<400mm). Many stones are missing and it appears to be generally less than 4 courses high. There are no cap or coping stones visible however some flag stone pieces appear to be balanced on top if high points in the wall.

We assign a condition rating of 2 to this fence.

2.1.6 2750 Front Road

The stone fence at this property consists of a few scattered granitic cobble stones and a few limestone slabs randomly placed in front of the property. It is not constructed in a manner traditionally called dry-stack stone fence observed in this area. We reviewed an image previously presented in the Loyalist Township report on page 37 of 58 and note that several

granite boulders are missing and the wall has been reconfigured adding more limestone flags (Loyalist Township, Amherst Island Stone Fences Designations, March 25, 2013). We did not see any evidence of previously reported pillars.

We assigned a condition rating of 1 for the fence.

2.1.7 12485 Front Road

The stone fence in front of 12485 is visible above ground. In general, the above ground stone fence was laid in a seemingly random manner with clay bricks and concrete interlock units placed on top of the wall. Construction lay-up is not consistent with a traditionally built dry stack stone fence.

We assigned a condition rating of 1 for this fence.

2.1.8 12515 Front Road

The stone fence in front of 12515 Front Road is hidden under heavy bush, and is barely visible following the fall of leaves, before winter. It is also barely visible at locations of overgrown grass and hedge. The stones appear to have been randomly placed, and are not consistent with traditionally laid dry stone fence.

We assigned a condition rating of 1 for this fence.

2.1.9 12675 Front Road

The stone wall at this residence consists principally of limestone flag and was built similar to the traditional manner. However, it lacks the tightness, even bedding plane, uniformity of a traditional built structure. It is likely constructed by modern day masons to imitate a traditional dry-stack stone fence. This wall does not have the vertical coping stones common to the original wall. Many stones are missing and the quality of some of the flag and cap is poor.

We have assigned a condition rate of 2 for this wall. The owner reported that all walls will be reconstructed in the near future.

2.1.10 13555 Front Road

The walls on this property form two enclosures between the barn and the existing road. The wall along the existing road is in the best condition and has had several repairs. It includes a gate area with two round pillars at the head of each wall. These pillars have mortared joints and appear to have been displaced by frost action. No gate was installed at this time. The tenant described the wall section paralleling the road as the only designated section of all walls. We have assigned a condition rating of 4 to this wall. Front Road at this location has been relocated to the south side of the property, a greater distance than the distance between the existing road and the stone fence. The enclosure walls are in various states of disrepair.

3.0 SUMMARY

Table 3.1 summarizes the stone walls assessed during this detailed review and includes their condition rating.

Table 3.1: Summary of Wall Condition

Figure No.	Municipal Address	Condition Rating
A.1	12405 Front Road/Emerald 40 Foot Road and Second Concession Road	2
A.2	3190 Front Road	3
A.3	3850 South Shore Road	5
A.4	570 Front Road	3
A.5	2400 Front Road	2
A.6	2750 Front Road	1
A.7	12485 Front Road	1
A.8	12515 Front Road	1
A.9	12675 Front Road	2
A.10	13555 Front Road	4

4.0 CONCLUSION

This document contains the findings of our review of the identified dry stone fences on Amherst Island. We are satisfied that this assessment documents the existing condition of the stone fences and meets Condition M6 (1) of the REA.

APPENDIX A

Photographic Records of Stone Fences on Amherst Island

A.1 - 12405 FRONT ROAD/EMERALD 40 FOOT ROAD AND SECOND CONCESSION ROAD



Island Key Plan



Stone Fence General Location Plan

General Wall Information

Municipal Address	12405 Front Road / Emerald 40 Foot Road and Second Concession Road
Approximate Length	270 meters
Approximate Mean Height	0.2 meters
Estimated Age	
GPS Coordinates	44.141153, -76.770071
Condition Rating	2
Overall Observations	The stone fence is on the west side of Emerald 40 Foot Road, starting at a barn house on the east side of the road, approximately 0.8 km south of Front Street. This stone fence varies significantly in height, texture, sizes of stones, tightness of joints, evenness of bedding planes, there are likely constructed in modern days with numerous reconstruction through the years.



Dry Stone Fence Photo - 0m to 5m

North end starting point of the fence, west side of Emerald 40 Foot Road, 0.8 km south of Front street, consists of limestone, at 4-5m, the stones were placed tighter than the rest of this section.



Dry Stone Fence Photo - 5m to 10m

Consists of limestone, the lower portion at left (7.5m-10m) appears to be lined more evenly and tight than the right portion(5m-7.5m).

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Figure No.

A.1.1

Title

12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



Dry Stone Fence Photo - 10m to 15m

Consists of limestone, the portion at 10-12m appears to be lined more evenly and tight than the right portion(12-15m).



Dry Stone Fence Photo - 15m to 20m

Consists of limestone, this portion was placed with various alignment and tightness.



Dry Stone Fence Photo - 20m to 25m

Consists of limestone, this portion was placed with various alignment and tightness, note the round pieces on top of wall.



Dry Stone Fence Photo - 25m to 30m

Consists of limestone, this portion was placed with various alignment and tightness.

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Figure No.

A.1.2

Title

12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



Dry Stone Fence Photo - 30m to 35m

Consists of limestone, this portion was placed at various alignment and tightness, the lower portion at middle appears to be laid more evenly than the rest of this section.



Dry Stone Fence Photo - 35m to 40m

Consists of limestone, the 35-37m portion was placed at more evenly and tightly than the rest.



Dry Stone Fence Photo - 40m to 45m

Consists of limestone, this portion was placed with various alignment and tightness.



Dry Stone Fence Photo - 45m to 50m

Consists of limestone, this portion was placed with various alignment and tightness.

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Figure No.

A.1.3

Title

12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



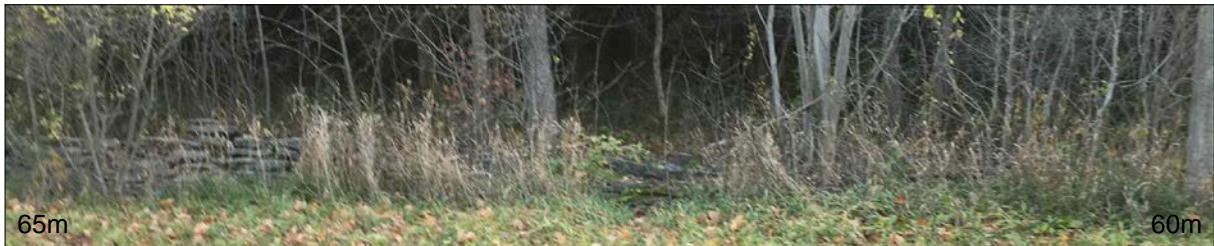
Dry Stone Fence Photo - 50m to 55m

Consists of limestone, barely visible, this portion was placed with various alignment and tightness.



Dry Stone Fence Photo - 55m to 60m

Barely visible, consists of limestone, this portion was placed with various alignment and tightness.



Dry Stone Fence Photo - 60m to 65m

Consists of limestone, this portion was placed with various alignment and tightness.



Dry Stone Fence Photo - 65m to 70m

Consists of limestone, the 67-70m portion is more even and tight than the remaining, indicating a modification at 65-67m portion.

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Figure No.

A.1.4

Title

12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



Dry Stone Fence Photo - 70m to 75m

This portion was constructed in a traditional manner with even and tight joints, but the small stones on top of wall appear to be placed at random.



Dry Stone Fence Photo - 75m to 80m

75-77m continues from previous section with decent even bedding plane and joints, there is a missing part at the middle section and also adjacent to 80m, note the round rubble on top in this area.



Dry Stone Fence Photo - 80m to 85m

The bottom of the portion at 82-85m appears to be constructed in traditional manner, but areas between 80-82m appears to be a reconstruct, as indicated by the loosely packed smaller size rubble stones.



Dry Stone Fence Photo - 85m to 90m

This section appears to be placed in the traditional manner with even bedding and decent tight joints, some gaps are present.

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Figure No.

A.1.5

Title

12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



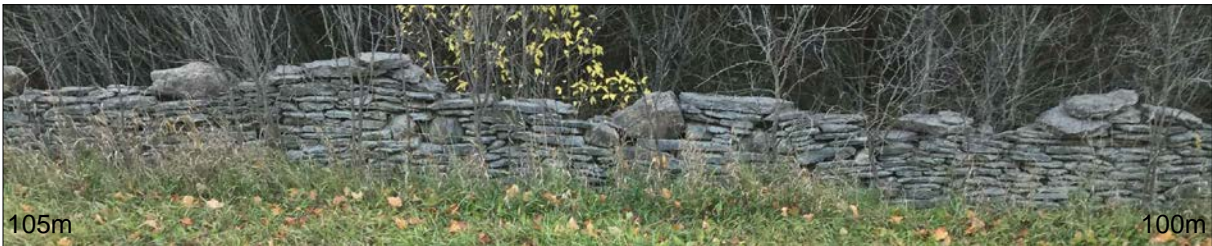
Dry Stone Fence Photo - 90m to 95m

Similar to section 85-90m with missing top layer and additional pieces on the top too.



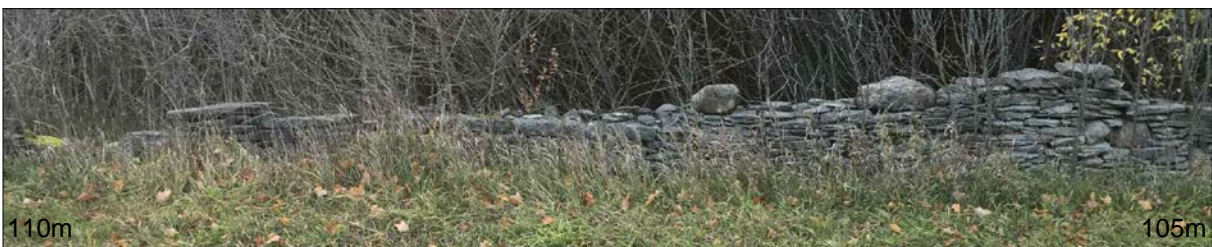
Dry Stone Fence Photo - 95m to 100m

Similar to section 90-95m with missing top layer and additional pieces on the top, also some gaps in joints.



Dry Stone Fence Photo - 100m to 105m

Similar to section 95-100 with missing top layer and additional pieces on the top.



Dry Stone Fence Photo - 105m to 110m

Similar to section 100-105 with missing top layer and additional pieces on the top, as well as a gradual reduced height.

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Figure No.

A.1.6

Title

12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



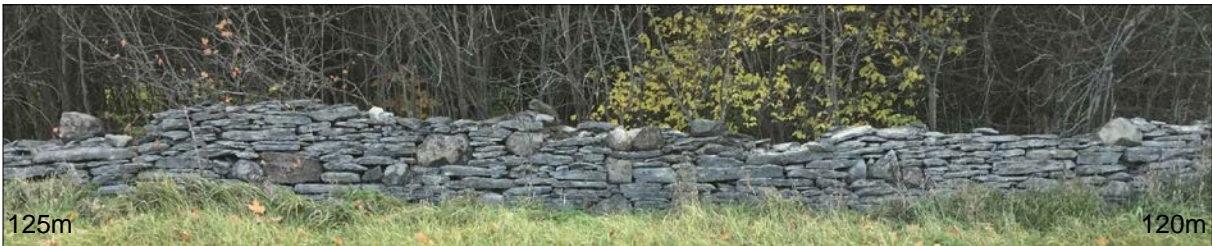
Dry Stone Fence Photo - 110m to 115m

Where the stone is laid in traditional manner, the joint is decently tight and the bedding line is even, but is missing top layers at various locations. Random round stone pieces are on top.



Dry Stone Fence Photo - 115m to 120m

Area between 117 -120m appears to have more tight joints and even bedding line than the area between 115-117, note the change texture and pattern at about 120m which indicates reconstruction at some point in time.



Dry Stone Fence Photo - 120m to 125m

Area between 120-124m appears to be constructed in the traditional manner, but the height is reduced towards the 125m mark. Note the big round rubble pieces sandwiched in between the long flat pieces.



Dry Stone Fence Photo - 125m to 130m

The first half (right side of photo) of wall is more traditionally placed than the second half (left side of photo) which is reduced in height to barely visible.

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Title

12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



Dry Stone Fence Photo - 130m to 135m

The portion on the left appears to be randomly placed stone pieces, the portion on the right is placed in a systematic manner, the height varies.



Dry Stone Fence Photo - 135m to 140m

The height varies from non-existence of fence at middle section to traditionally stacked low wall, some top pieces appears to be placed randomly.



Dry Stone Fence Photo - 140m to 145m

The height varies significantly, sections of traditionally stacked low wall, some top pieces appear to be placed randomly.



Dry Stone Fence Photo - 145m to 150m

The height varies significantly, sections of traditionally stacked low wall, some top pieces appear to be placed randomly.

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Figure No.

A.1.8

Title

12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



Dry Stone Fence Photo - 150m to 155m

The height varies significantly, sections of traditionally stacked low wall, some top pieces appear to be placed randomly.



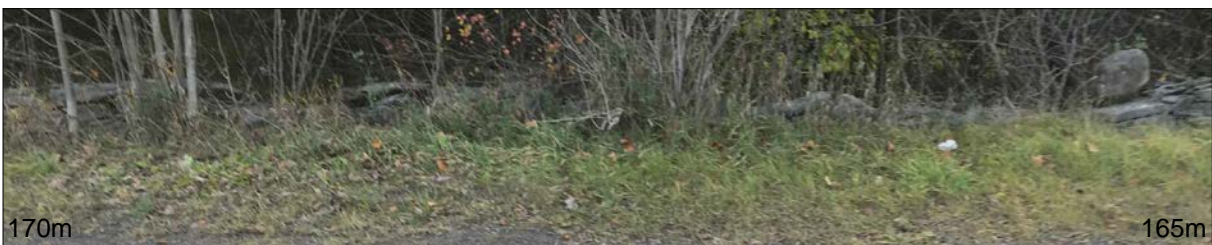
Dry Stone Fence Photo - 155m to 160m

Height reduces to barely visible towards left, the portion at right appears to be built in traditional way, with medium tight joints and decent level of bedding, note random round piece at top and one round piece at the left end.



Dry Stone Fence Photo - 160m to 165m

The height varies significantly, sections of traditionally stacked low wall, some top pieces appear to be placed randomly.



Dry Stone Fence Photo - 165m to 170m

Barely visible with one to two layers hidden in grass, appears to be randomly placed.

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A.1.9

Title

12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



Dry Stone Fence Photo - 170m to 175m

Laid in traditional manner and medium uniform height, bedding plane and medium tight joints .



Dry Stone Fence Photo - 175m to 180m

Height diminished from right to left, the visible portion appears to be built in traditional manner with medium uniform bedding plane and medium tight joints.



Dry Stone Fence Photo - 180m to 185m

Wall height rises towards left portion, built in traditional manner, the bedding plane appears to be even and joints medium tight.



Dry Stone Fence Photo - 185m to 190m

The wall height reduces towards the left where stones become barely visible, the placement pattern is less systematic.

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Figure No.

A.1.10

Title

12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



Dry Stone Fence Photo - 190m to 195m

Stone wall height diminishes to a few random stones embedded in the ground at a pathway into the forest, and rises again, the small section of wall is laid in traditional manner with similar fashion to other sections.



Dry Stone Fence Photo - 195m to 200m

Stone fence is barely visible in the middle of the section, the visible low wall at left has decent tight joints and evenness of bedding plane.



Dry Stone Fence Photo - 200m to 205m

This section is visible and low, with less tight joints and less regular bedding than the portion at the right, note the random loose pieces on top of wall.



Dry Stone Fence Photo - 205m to 210m

Low wall with decent tightness and even joint even less visible. Note loose random pieces on top of wall.

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A.1.11

Title
12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



Dry Stone Fence Photo - 210m to 215m

Low wall slightly increases towards left portion, but the tightness and evenness of wall reduces as compare to the portion at the right.



Dry Stone Fence Photo - 215m to 220m

Again the wall height reduces to barely visible and rises again towards left, stones and mid portion appears to be laid randomly.



Dry Stone Fence Photo - 220m to 225m

This portion of the wall has medium tight joints and even bedding plane appearing to be constructed in traditional manner, though the change in size and thickness of stone may indicate a reconstruction of a portion of it.



Dry Stone Fence Photo - 225m to 230m

Less visible due to grass but appears to be laid in traditional way. The left portion also appears to have smaller stones and tighter joints than the portion at the right.

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Figure No.

A.1.12

Title

12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



Dry Stone Fence Photo - 230m to 235m

The wall height reduces to even less visible due to grass and appears to diminish at the left end.



Dry Stone Fence Photo - 235m to 240m

Not visible except portion at the right.



Dry Stone Fence Photo - 240m to 245m

Not visible.



Dry Stone Fence Photo - 245m to 250m

Not visible.

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Figure No.

A.1.13

Title

12405 Front Road / Emerald
40 Foot Road and Second
Concession Road



Dry Stone Fence Photo - 250m to 255m

Not visible.



Dry Stone Fence Photo - 255m to 260m

Not visible.



Dry Stone Fence Photo - 260m to 265m

Not visible.



Dry Stone Fence Photo - 265m to 270m

Not visible.

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Figure No.
A.1.14

Title
12405 Front Road / Emerald
40 Foot Road and Second
Concession Road

A.2 - 3190 FRONT ROAD



Island Key Plan



Stone Fence General Location Plan

General Wall Information

Municipal Address	3190 Front Road
Approximate Length	145 meters
Approximate Mean Height	1.5 meters
Estimated Age	
GPS Coordinates	44.178548, -76.673293
Condition Rating	3
Overall Observations	The stone fence for this residence is at the east end of the property along the Front Street, from west to east amount to about 145m long. Our reference point is at the left pillar in front of B&B house, the west end of the fence. overall observations are the fence consists of limestone, where fence is laid in traditional manner has tight joints and mostly level bedding planes. however there are numerous reconstruction along the wall with change in pattern, change in joint tightness, and bedding levelness. also the fence at this residence appears to have tilted inwards at several locations, indicating potential unstable condition, from a distance of 107 m towards the east end (145m) the wall was diminished at several locations or reduced height with tire tracks in the vicinity, likely to accommodate reconstruction activities.



Dry Stone Fence Photo - 0m to 5m

Consists of limestone, laid in traditional manner with tight joints and well distributed sizes and level bedding plane, with the exception of discontinuities noted here.

- 1) Area butting the pillar has different pattern, size of stones and tightness, apparently a reconstructed area.
- 2) Un-even bedding plane, less joint tightness and size of stone is different from adjacent areas, indicating reconstruction, note the large boulder at bottom.



Dry Stone Fence Photo - 5m to 10m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of discontinuities noted.

- 3) A change in placement pattern and sizes of stone is noted in this area, note the large boulders at bottom of wall.

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3190 Front Road



Dry Stone Fence Photo - 10m to 15m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of change in stone sizes and slight pattern change, likely reconstruction, indicated above.



Dry Stone Fence Photo - 15m to 20m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of change in stone sizes and slight pattern change, likely reconstruction, indicated above.



Dry Stone Fence Photo - 20m to 25m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of change in stone sizes and slight pattern change, likely reconstruction, indicated above.



Dry Stone Fence Photo - 25m to 30m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of change in stone sizes and slight pattern change, likely reconstruction, indicated above.

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A.2.2
Title
3190 Front Road



Dry Stone Fence Photo - 30m to 35m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of a change in stone sizes, joint tightness and levelness indicated above.



Dry Stone Fence Photo - 35m to 40m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of a change in joint tightness and bedding levelness, indicated above. Note the large pieces at isolated locations.



Dry Stone Fence Photo - 40m to 45m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane.



Dry Stone Fence Photo - 45m to 50m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of discontinuities noted above. First, a slight change in pattern where butting with the left pillar, and second where butting with the right pillar the stone was laid in less tightly, note the large piece of boulder.

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3190 Front Road



Dry Stone Fence Photo - 50m to 55m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of the placement pattern, stone sizes and tightness is less than the adjacent, indicated above.



Dry Stone Fence Photo - 55m to 60m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of a slight change in joint tightness noted above.



Dry Stone Fence Photo - 60m to 65m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of a large piece in between noted above.



Dry Stone Fence Photo - 65m to 70m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane.

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Figure No.
A.2.4

Title
3190 Front Road



Dry Stone Fence Photo - 70m to 75m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane.



Dry Stone Fence Photo - 75m to 80m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of a change in pattern, joint tightness, and likely reconstructed area, noted above .



Dry Stone Fence Photo - 80m to 85m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of a change in pattern and joint tightness, noted above .



Dry Stone Fence Photo - 85m to 90m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of a slight change in pattern, stone sizes and joint tightness, possible a reconstructed area.

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Figure No.

A.2.5

Title

3190 Front Road



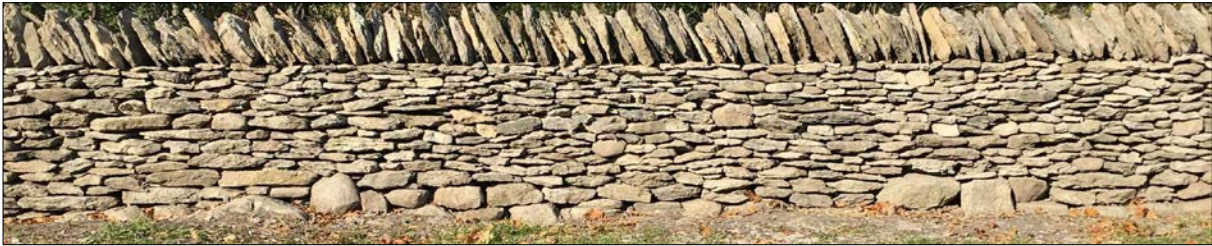
Dry Stone Fence Photo - 90m to 95m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane.



Dry Stone Fence Photo - 95m to 100m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of a slight change in pattern, stone sizes and joint tightness.



Dry Stone Fence Photo - 100m to 105m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, note several large stones at the bottom of wall.



Dry Stone Fence Photo - 105m to 110m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with an exception at about 107 m from the west end, wall diminished, tire tracks in the vicinity, indicating recent construction activities.

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Figure No.

A.2.6

Title

3190 Front Road



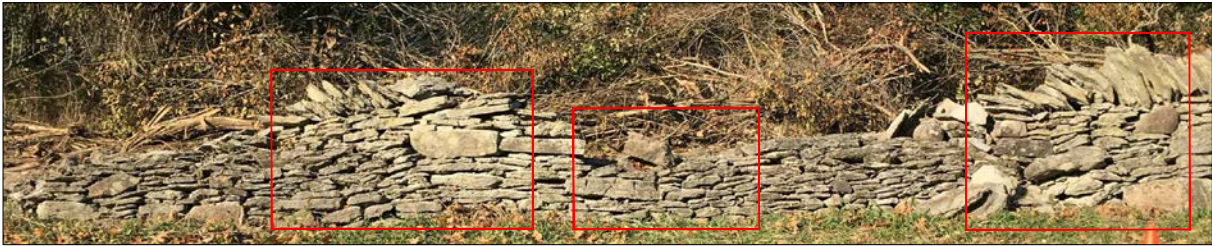
Dry Stone Fence Photo - 110m to 115m

Wall diminished in this area, tire tracks in the vicinity, indicating recent construction activities.



Dry Stone Fence Photo - 115m to 120m

Wall diminished in this area with some remaining at the east end of this section, tire tracks in the vicinity, indicating recent construction activities.



Dry Stone Fence Photo - 120m to 125m

The section that remains is constructed in traditional manner but there is apparent changes in pattern, tightness and levelness, indicating reconstruction activities



Dry Stone Fence Photo - 125m to 130m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of a change in size of stone, joint tightness, levelness and color indicating reconstruction area.

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A.2.7

Title

3190 Front Road



Dry Stone Fence Photo - 130m to 135m

Constructed in traditional manner with limestone, with tight joints and well distributed sizes and level bedding plane, with the exception of the fence diminishing and then reappearing again with lower height and without vertical coping stones.



Dry Stone Fence Photo - 135m to 140m

Where wall remains it is constructed in a traditional manner, but top layers have disappeared. Note that top layers disappeared and stones are loose, as well as the wall diminishing from here.



Dry Stone Fence Photo - 140m to 145m

Barely visible, with lower portion of the wall remaining and scattered.

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Figure No.

A.2.8

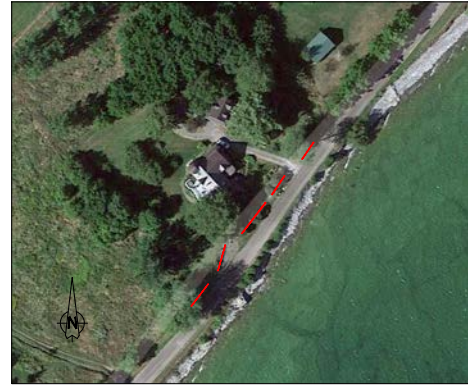
Title

3190 Front Road

A.3 - 3850 SOUTH SHORE ROAD



Island Key Plan



Stone Fence General Location Plan

General Wall Information

Municipal Address	3850 South Shore Road
Approximate Length	Section; 1: 4.75m, 2: 9.4m, 3: 17.5m, 4: 8.5m, 5: 10m
Approximate Mean Height	1.2 meters
Estimated Age	
GPS Coordinates	44.152504, -76.660851
Condition Rating	5
Overall Observations	The stone fences at this residence are divided into five (5) individual sections, starting from east end to the west end. They were built in modern days in a traditional manner. Well built with level bedding plane, tight joints, well distributed stone size and shapes.



Dry Stone Fence Photo - Section 1 - 0m to 4.75m

Mostly limestone with a few granitic rounder pieces at random locations. Well built with level bedding planes, tight joints, well distributed sizes and shapes.

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3850 South Shore Road



Dry Stone Fence Photo - Section 2 - 0m to 5m

Mostly limestone with a few granitic rounder pieces at random locations. Well built with level bedding planes, tight joints, well distributed sizes and shapes.



Dry Stone Fence Photo - Section 2 - 5m to 9.4m

Mostly limestone with a few granitic rounder pieces at random locations. Well built with level bedding planes, tight joints, well distributed sizes and shapes.

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A.3.2

Title

3850 South Shore Road



Dry Stone Fence Photo - Section 3 - 0m to 5m

Mostly limestone with a few granitic rounder pieces at random locations. Well built with level bedding planes, tight joints, well distributed sizes and shapes.



Dry Stone Fence Photo - Section 3 - 5m to 10m

Mostly limestone with a few granitic rounder pieces at random locations. Well built with level bedding planes, tight joints, well distributed sizes and shapes.



Dry Stone Fence Photo - Section 3 - 10m to 15m

Mostly limestone with a few granitic rounder pieces at random locations. Well built with level bedding planes, tight joints, well distributed sizes and shapes.



Dry Stone Fence Photo - Section 3 - 15m to 17.5m

Mostly limestone with a few granitic rounder pieces at random locations. Well built with level bedding planes, tight joints, well distributed sizes and shapes, some randomly placed round boulders at path way to the residence.

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Figure No.

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3850 South Shore Road



Dry Stone Fence Photo - Section 4 - 0m to 5m

Mostly limestone with a few granitic rounder pieces at random locations. Well built with level bedding planes, tight joints, well distributed sizes and shapes.



Dry Stone Fence Photo - Section 4 - 5m to 8.5m

Mostly limestone with a few granitic rounder pieces at random locations. Well built with level bedding planes, tight joints, well distributed sizes and shapes.

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Figure No.

A.3.4

Title

3850 South Shore Road



Dry Stone Fence Photo - Section 5 - 0m to 5m

Mostly limestone with a few granitic rounder pieces at random locations. Well built with level bedding planes, tight joints, well distributed sizes and shapes.



Dry Stone Fence Photo - Section 5 - 5m to 10m

Mostly limestone with a few granitic rounder pieces at random locations. Well built with level bedding planes, tight joints, well distributed sizes and shapes, slight change in pattern at the end which could be have been added after because it was not tied to the main portion.

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Figure No.

A.3.5

Title

3850 South Shore Road

A.4 - 570 FRONT ROAD



Island Key Plan



Stone Fence General Location Plan

General Fence Information	
Municipal Address	570 Front Road
Approximate Length	17.5 meter
Approximate Mean Height	1.2 meters
Estimated Age	
GPS Coordinates	44.187736, -76.644191
Condition Rating	3
Overall Observations	The fence at this residence is constructed with granitic cobble stones mixed with limestones at random locations and at the top (the vertical coping), though overall it appears uniform, the construction material and methodology do not appear to be consistent with traditional dry stack stone fences noted in this area.



Dry Stone Fence Photo - 0m to 5m

Consists mostly granitic cobble stones, mixed with occasional limestone slab in between. The overall appearance is uniform, note the vertical coping consists of limestone except the end piece.



Dry Stone Fence Photo - 5m to 10m

Consists mostly granitic cobble stones, mixed with occasional limestone slab in between. The overall appearance is uniform, note the vertical coping consists of limestone.

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A.4.1
Title
570 Front Road



Dry Stone Fence Photo - 10m to 15m

Consists mostly granitic cobble stones, mixed with occasional limestone slab in between. The overall appearance is uniform, note the vertical coping consists of limestone.



Dry Stone Fence Photo - 15m to 17.5m

Consists mostly granitic cobble stones, mixed with occasional limestone slab in between. The overall appearance is uniform, note the vertical coping consists of limestone except the end piece which contains more limestone than the rest of the wall.

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Figure No.

A.4.2

Title

570 Front Road

A.5 - 2400 FRONT ROAD



Island Key Plan



Stone Fence General Location Plan

General Fence Information	
Municipal Address	2400 Front Road
Approximate Length	Wall Section 1: 7.0m, Section 2: 4.0m
Approximate Mean Height	
Estimated Age	25 Years
GPS Coordinates	
Condition Rating	2
Overall Observations	This fence was constructed from flat rocks and field boulders by the tenants in the recent 25 years. it is not constructed with any dry-stack style or skill. We do not even know that this is in a location where a fence stood or even on the correct property line.



Dry Stone Fence Photo - Section 1



Dry Stone Fence Photo - Section 2

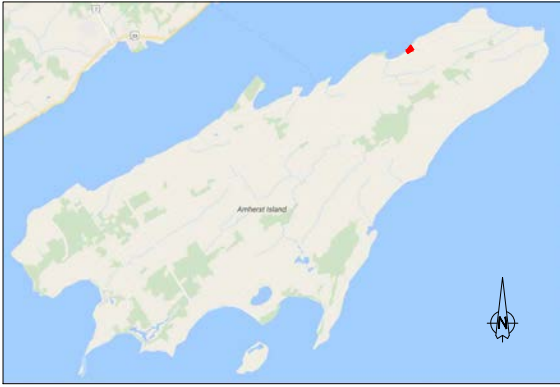
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Title
2400 Front Road

A.6 - 2750 FRONT ROAD



Island Key Plan



Stone Fence General Location Plan

General Fence Information	
Municipal Address	2750 Front Road
Approximate Length	8 meters
Approximate Mean Height	0.3 meters
Estimated Age	
GPS Coordinates	44.181395, -76.668527
Condition Rating	1
Overall Observations	A few scattered granitic cobble stones randomly placed in front of the property. the starting point is at the west.



Dry Stone Fence Photo - 0m to 5m

A few pieces of granitic cobble stones randomly placed, not consistent with traditional dry stack stone fence.



Dry Stone Fence Photo - 3m to 8m

a few pieces of granitic cobble stones and a few pieces of limestone slab, randomly placed, not consistent with traditional dry stack stone fence

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A.6.1
Title
2750 Front Road

A.7 - 12485 FRONT ROAD



Island Key Plan



Stone Fence General Location Plan

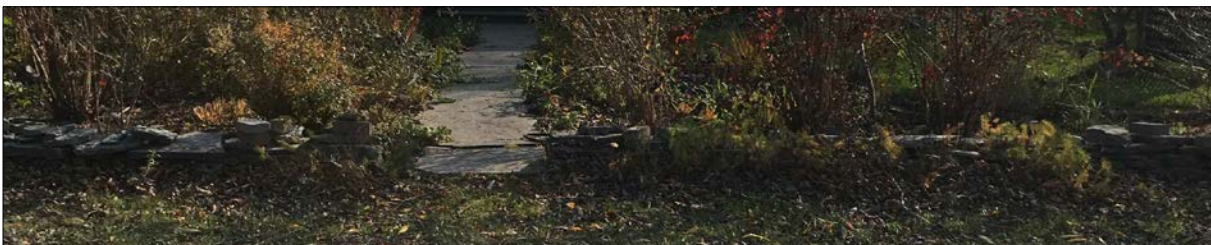
General Wall Information

Municipal Address	12485 Front Road
Approximate Length	35 meters
Approximate Mean Height	0.2 meters
Estimated Age	
GPS Coordinates	44.173227, -76.721565
Condition Rating	1
Overall Observations	The stone fences in front of 12485 is visible above ground, but in general, the stone fence was laid in seemly random manner with bricks pieces on top, not consistent with traditional well built dry stack stone fences.



Dry Stone Fence Photo - 0m to 5m

Stone fence consists of limestones pieces with several bricks placed on top, appear to be laid in random manner, especially the top layer.



Dry Stone Fence Photo - 5m to 10m

Consists of limestones pieces with several bricks placed on top, appear to be laid in random manner, especially the top layer.

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12485 Front Road



Dry Stone Fence Photo - 10m to 15m

Consists of limestones pieces with several bricks placed on top, appear to be laid in random manner, especially the top layer.



Dry Stone Fence Photo - 15m to 20m

Driveway of address 12485.



Dry Stone Fence Photo - 10m to 15m

This section of fence consists of limestone, but is not consistent with traditional manner.

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Figure No.

A.7.2

Title

12485 Front Road

A.8 - 12515 FRONT ROAD



Island Key Plan



Stone Fence General Location Plan

General Wall Information

Municipal Address	12515 Front Road
Approximate Length	10 meters
Approximate Mean Height	0.2 meters
Estimated Age	
GPS Coordinates	44.173227, -76.721565
Condition Rating	1
Overall Observations	The fence is hidden under bush. In general, the above ground stone fence was laid in seemly random manner with bricks pieces on top, not consistent with traditional well built dry stack stone fences.



Dry Stone Fence Photo - 0m to 5m

Driveway of address 12485 at left and the start of address 12515 residence at mid point, stone fence is not visible, barely saw a few pieces if the leaves are removed.



Dry Stone Fence Photo - 5m to 10m

Stone fence not visible, barely saw a few pieces if the leaves are removed.

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A.8.1
Title
12515 Front Road



Dry Stone Fence Photo - 0m to 5m
Stones scattered under bush in front of 12515.



Dry Stone Fence Photo - 5m to 10m
Stones scattered under bush in front of 12515.

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Figure No.
A.8.2
Title
12515 Front Road

A.9 - 12675 FRONT ROAD



Island Key Plan



Stone Fence General Location Plan

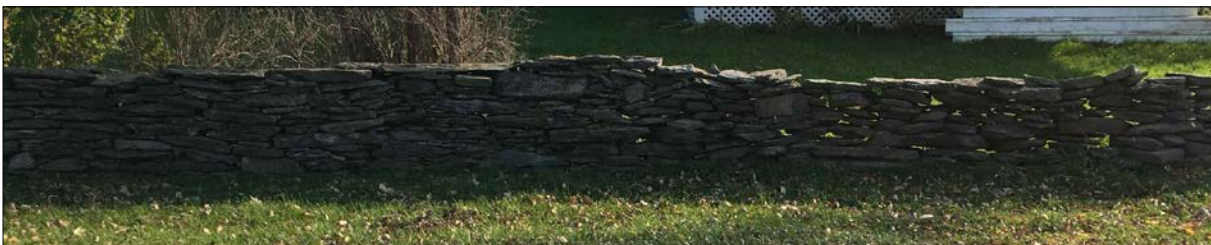
General Wall Information

Municipal Address	12675 Front Road
Approximate Length	Section; 1: 30 meters, 2: 25 meters
Approximate Mean Height	0.8 meters
Estimated Age	
GPS Coordinates	44.144284,-76.782652
Condition Rating	2
Overall Observations	The stone wall at this residence consists of limestone and was built similar to the traditional manner. However, it lacks the tightness, even bedding plane, and uniformity of a traditional built one. It is likely constructed in modern day to imitate a traditional dry-stack stone fence.



Dry Stone Fence Photo - Section 1 - 0m to 5m

Consists of limestone built in traditional manner, tight at east end(0-1.5 m) with smaller sizes and change to less tight large stone pieces, likely built in different times, apparent discontinuity at 4.5 m also.



Dry Stone Fence Photo - Section 1 - 5m to 10m

Similar pattern continuous from previous section but change to loosely stacked pieces with big voids and uneven bedding.

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Title
12675 Front Road



Dry Stone Fence Photo - Section 1 - 10m to 15m

Loosely stacked continuous from previous section up to about 12m and then changed to a tighter joint towards the wooden gate.



Dry Stone Fence Photo - Section 1 - 15m to 20m

The 1m adjacent to wooden gate was tighter but apparent disintegration westward, large voids apparent at transition



Dry Stone Fence Photo - Section 1 - 20m to 25m

Pattern continues from previous section.



Dry Stone Fence Photo - Section 1 - 25m to 30m

Pattern continues from previous section in the first half but becomes tight and with more even bedding at the corner.

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Figure No.
A.9.2
Title
12675 Front Road



Dry Stone Fence Photo - Section 2 - 0m to 5m

Section 2 is perpendicular to the front wall shown in section 1. The stone was laid in loose pattern, lacks even bedding, tightness, has apparent voids and integrated with one round piece.



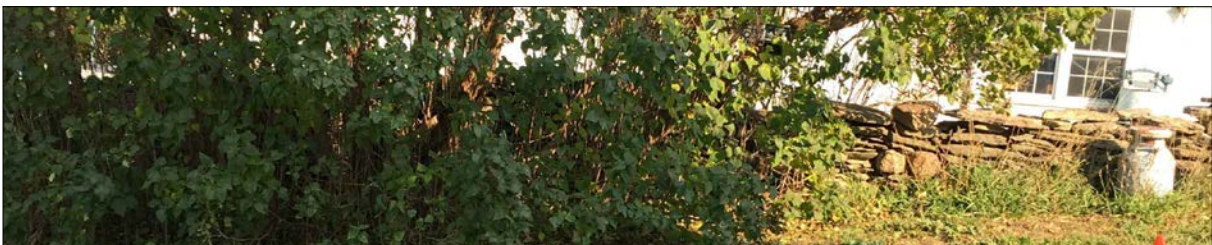
Dry Stone Fence Photo - Section 2 - 5m to 10m

Pattern continues from previous section, lack of even bedding plane and tightness.



Dry Stone Fence Photo - Section 2 - 10m to 15m

Pattern continues from previous section, lack of even bedding plane and tightness.



Dry Stone Fence Photo - Section 2 - 15m to 20m

Pattern continues from previous section, lack of even bedding plane and tightness.

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Figure No.
A.9.3
Title
12675 Front Road



Dry Stone Fence Photo - Section 2 - 20m to 25m

Pattern continues from previous section, lack of even bedding plane and tightness.

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Figure No.

A.9.4

Title

12675 Front Road

A.10 - 13555 FRONT ROAD



Island Key Plan



Stone Fence General Location Plan

General Fence Information

Municipal Address	13555 Front Road
Approximate Length	42.7 meters
Approximate Mean Height	1.2 meters
Estimated Age	
GPS Coordinates	44.145628, -76.789692
Condition Rating	4
Overall Observations	In general the wall is constructed in the traditional dry-stack manner. The original wall has been modified at various locations and over various times as indicated by the change in laying pattern, stone texture, tightness, uneven bedding, irregular stone sizes. This includes the construction of pillars with mortared joints.



Dry Stone Fence Photo - 0m to 5m

Consists of limestone, built in traditional manner, mostly tight, apparent change in pattern at mid-section and towards east/west ends of the section, uneven bedding line.



Dry Stone Fence Photo - 5m to 10m

Area 7.5m to 10m the stone was laid in traditional manner area with a large cobble stone infill, the area at approximately 5-7.5m, are laid with less tightness and inconsistent bedding line, apparently reconstructed at a later day.

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Figure No.
A.10.1
Title
13555 Front Road



Dry Stone Fence Photo - 10m to 15m

Constructed in traditional manner with apparent modification in tightness at mid and upper portion, note the occasional larger and thicker stone pieces and voids at about 13m.



Dry Stone Fence Photo - 15m to 20m

Traditional manner, change in pattern at mid section and towards the 18m area, the different color of stones indicate the difference in age, thus possibly reconstructed afterwards. Also note occasional larger thick pieces at upper right.



Dry Stone Fence Photo - 20m to 25m

Laid in traditional manner, changes in stone color and texture at mid section, the right end appears less tight than the left end, note occasional large thick pieces.



Dry Stone Fence Photo - 25m to 30m

Laid in traditional manner, changes to less tight towards the pillar, the pillar was constructed with mortar joint inconsistent with dry stacked stone system, note discoloration at lower right and dislocation of stone pieces at top half of the pillar.

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A.10.2
Title
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Dry Stone Fence Photo - 30m to 35m

Pillar was constructed with mortar joint inconsistent with dry stacked stone system. Apparent discoloration and loss of mortar at pillar. the wall was constructed in traditional manner but is not tied to the pillar, also change in pattern and tightness apparent towards right (32-35m).



Dry Stone Fence Photo - 35m to 40m

Laid in traditional manner, change of pattern, tightness and height at mid section, note large thick piece at top.



Dry Stone Fence Photo - 40m to 42.7m

Laid in traditional manner but change in pattern, tightness towards the end. Note large pieces at the end.

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