Essex Region Conservation

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Essex Region Conservation Authority

Executive Committee Meeting Agenda

Meeting Date: Wednesday, March 19, 2025

Time: 8:30 am

Location and Details: via Zoom Web-Conferencing

List of Business Page Number

- 1. Call to Order
- 2. Land Acknowledgement
- 3. **Declarations of Pecuniary Interest**
- 4. Approval of Agenda 1-2
- 5. Hearings

None

6. Tenders

None

- 7. Reports for Approval
 - A. EC03/25 Sole Source Procurement of Materials from Walker Aggregates 3-4
 - B. EC04/25 Engineering Consulting Services for the Canard River Dyke Repairs 5-12
- 8. Committee of the Whole

None

- 9. New Business
- 10. Other Business
 - A. Next Meeting

The Executive Committee is scheduled to meet next on Thursday, April 10, 2025, starting at 5:00 p.m. in Council Chambers at the Civic Centre, Essex.

The next meeting of the ERCA Board of Directors will be held on Thursday, April 10, 2025, starting at 6:00 p.m. in Council Chambers at the Civic Centre, Essex.

11. Adjournment



Tim Byrne, CAO/Secretary-Treasurer

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Essex Region Conservation Authority

Executive Committee EC 03/25

From: Kevin Money, Director of Conservation Services

Date: Friday, March 7, 2025

Subject: Sole Source Procurement of Materials from Walker Aggregates

Compliance Action: ERCA's Procurement Policy

Recommendation: THAT Administration be directed to purchase \$200,000 in aggregate

construction materials from Walker Aggregates located in the Essex Region for the Carnard River Wetland Complex / MMA Marsh Erosion Protection and

Habitat Improvements project.

Summary

- ERCA has an existing contribution agreement with the Canadian Water Agency (formerly Environment Canada and Climate Change) to re-build dykes and construct new reefs in the Detroit River that will protect and enhance aquatic and riparian habitat features.
- Phase one of this project will be brought forward to the Executive Committee on April 10, 2025. and will involve the initial reconstruction of a compromised dyke that protects significant wetlands in the Detroit River known as the Canard River Wetland Complex, as it is at the mouth of the Canard River.
- The projected costs of this habitat project exceed \$2 million of which ERCA has secured \$1.3 million.
 The Canadian Water Agency has the opportunity to provide an additional \$200,000 in funding that must be spent before March 31, 2025.

Discussion

Through the Detroit River Canadian Cleanup Area of Concern fund, ERCA was awarded over \$5 million dollars to implement significant habitat protection and creation projects in the Detroit River. These projects will bring this Area of Concern significantly closer to delisting from this impaired status. The first project, the Canard River Wetland Dyke Repair Project, will maintain a significant dyke in the Detroit River that protects hundreds of acres of Detroit River Wetland. The dyke breached during recent high lake level events and the intent of this project is to repair the dyke for it to function for an additional design lifetime of a minimum of 50 years.

The initial projected Phase 1 costs were expected to exceed \$2 million dollars. ERCA currently has secured approximately \$1.3 million in funding for proposed works in summer (2025). Environment Canada has advised of being able to secure an additional \$200,000 for the project. The issue at hand is that the \$200,000 funding falls within April 1, 2024, to March 31, 2025, federal fiscal period. To utilize

this additional funding before the end of March 2025, Environment Canada advised ERCA that purchasing of materials in advance of typical tender process would be supported. This would address some of the funding shortfall and allow for the dyke repair of Phase 1 to proceed scaled to an upset limit of \$1.5 million.

The required rock material is armor stone and gabion stone. Both materials are quarried locally in Amherstburg and meet the minimum material standards set by the engineer. The engineer has advised that the next closest quarry that provides this type of material is at least 5 hours away. Given the additional transportation costs involved in transporting this volume of rock by truck, Administration is recommending a sole source contract to the local quarry as it is evident that costs from other quarries would be higher, once transportation costs were included.

Approved By:

Tim Byrne, CAO/Secretary Treasurer

Attachments: None

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Essex Region Conservation Authority

Executive Committee EC 04/25

From: Kevin Money, Director of Conservation Services

Date: Monday, March 10, 2025

Subject: Engineering Consulting Services for the Canard River Dyke Repairs

Compliance Action: ERCA's Procurement Policy

Recommendation: THAT Essex Region Conservation Authority enter into an agreement with

Landmark Engineering Inc. for engineering consulting services, as described in

Report EC 04/25, in the amount of \$135,000 (plus HST).

Summary

• Landmark Engineering Inc has been the Engineer of Record for the Canard River Dyke Repair project and has worked with ERCA to design and implement many similar projects in the Detroit River.

- Administration is recommending that technical work to support the final design, tendering, contract administration and inspections be awarded to Landmark Engineering Inc.
- All engineering and construction costs are being funded through an approved Environment and Climate Change Canada grant.

Discussion

In 2021, Landmark Engineering was engaged directly by Environment and Climate Change Canada (ECCC) to assess the structural integrity of a 1.6 km long exterior dyke that protects significant wetland features in the Detroit River. The purpose of this study was to develop design drawings and prioritization of works to protect significant wetland features in the Detroit River – a priority of the Detroit River Canadian Cleanup. Landmark Engineering completed this work per their contract.

In 2023-2024, ERCA engaged Landmark Engineering to assist with modifications to the current desig drawings prepared previously for ECCA. Following the receipt of feedback from Department of Fisheries and Oceans regulatory staff, significant modifications to the existing design drawings were required to meet the DFO permit requirements. This work was funded through an agreement with ECCC and ERCA.

Based on the work completed above, and that ERCA has received confirmation of grant funding, ERCA will be tendering the dyke repair works this spring for contractors to bid on. In advance of issuing the construction tender, Administration needs to secure ongoing engineering consulting services to facilitate tendering of this project.

ERCA's procurement policy reads:

In special cases, large or complex assignments may be sole sourced. This will typically be done when a particular firm or team has very specialized expertise ideally suited to an unusual type of project or has successfully undertaken preliminary or previous work for the same project or directly related project.

Given that the Canard River Dyke Repairs is a large and complex project, and that Landmark Engineering Inc. has completed the concept plans and is currently assisting with regulatory permit processes, Administration is recommending that Landmark Engineering be awarded the engineering consulting services for the Canard River Dyke Repair project as a sole source contract.

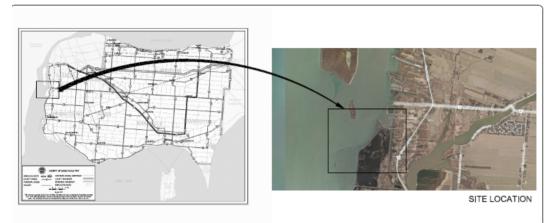
Approved By:

Tim Byrne, CAO/Secretary Treasurer

Attachments:

 MMA Marsh Erosion Protection and Habitat Improvements Contract Drawings prepared by Landmark Engineers Inc, April 2022

MMA MARSH EROSION PROTECTION AND HABITAT **IMPROVEMENTS**



CONSTRUCTION NOTES

DESIGN NOTES

- 2. PROPOSED MINIMUM TOP OF DWG ELEVATION ON DETROIT RIVER SIDE OF BARRIER = 176.40±

.andmark 2280 Ambassador Drive

(519) 972-8052 (519) 972-8644

DRAWING LIST:

21-049-01 SITE PLAN

21-049-02 BATHYMETRY PLAN AND DYKE PROFILE

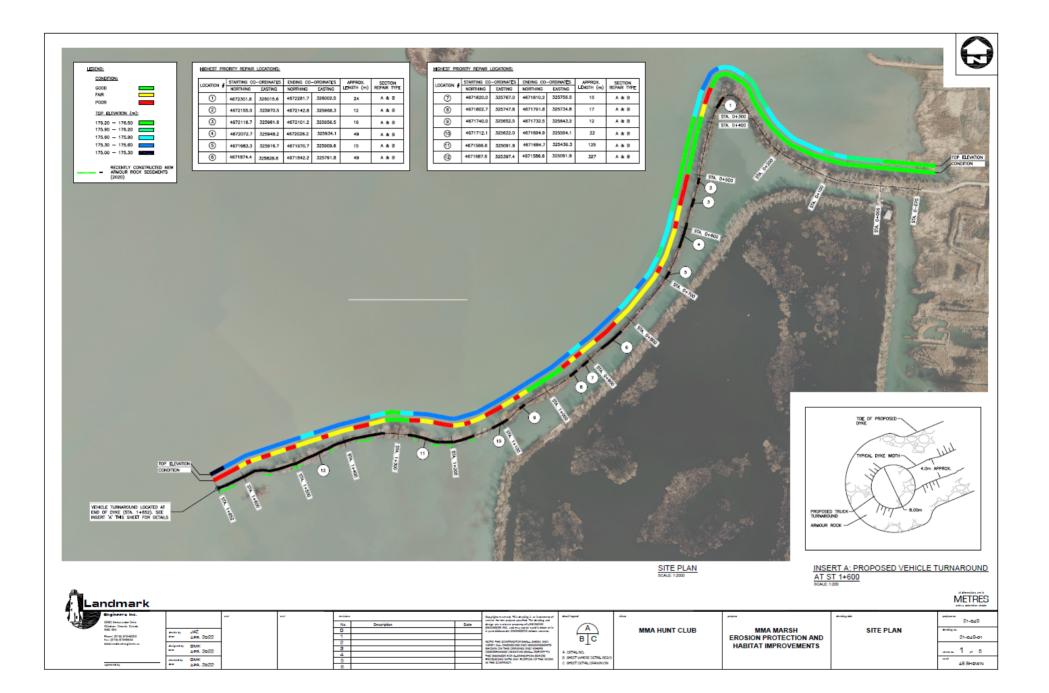
21-049-03 PROPOSED WORKS

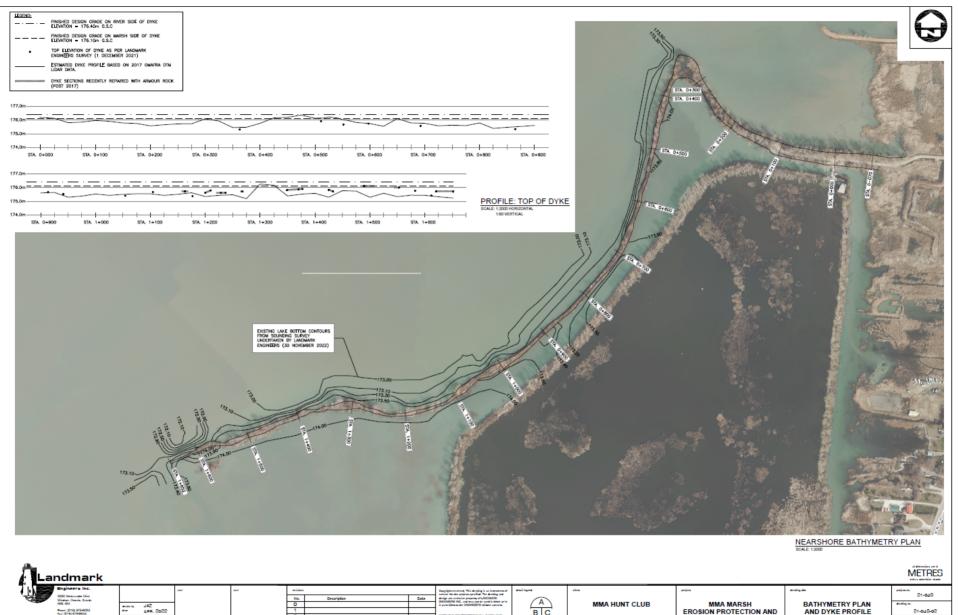
21-049-04 EXISTING SITE SECTIONS - 1

21-049-05 EXISTING SITE SECTIONS - 2

DATE: APRIL 2022

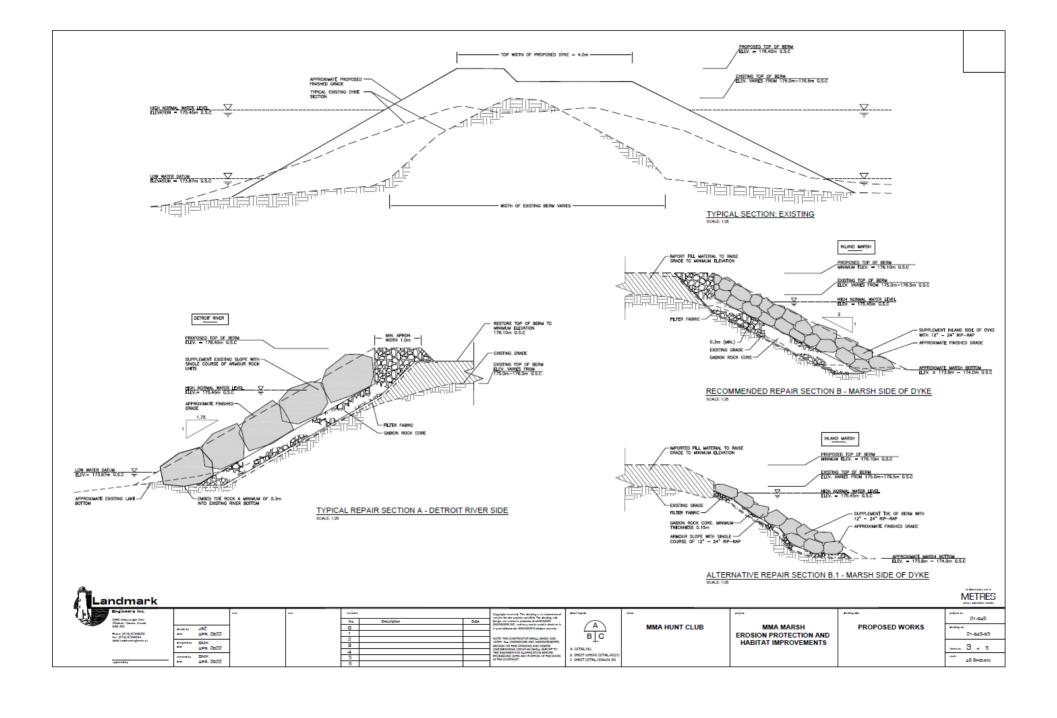
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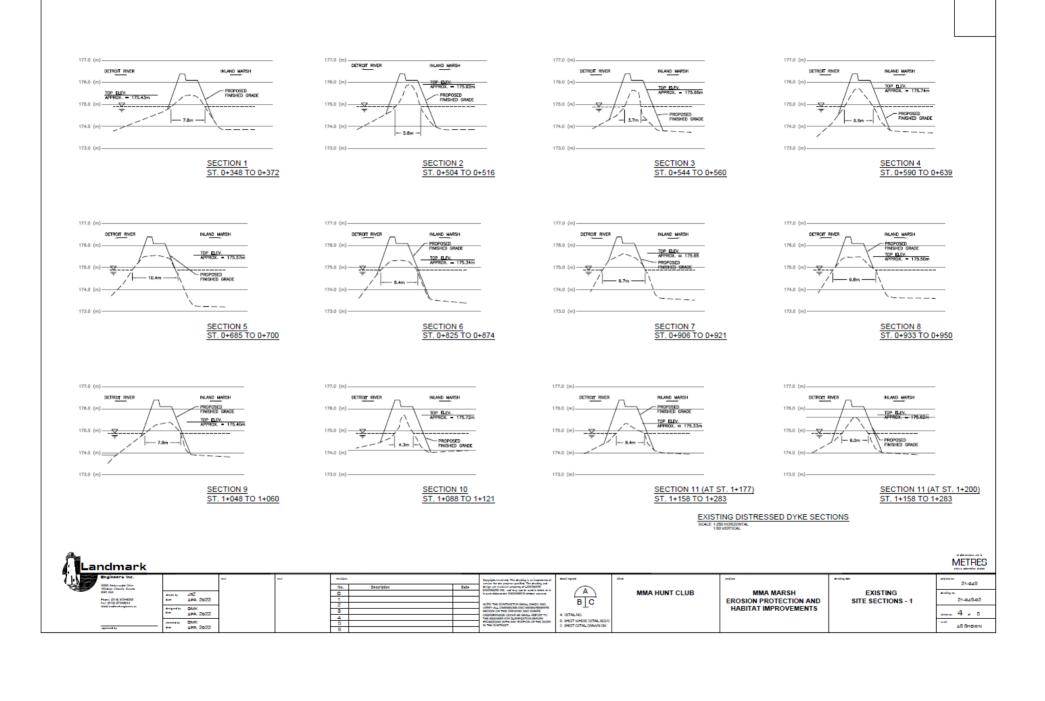


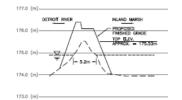


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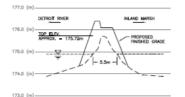
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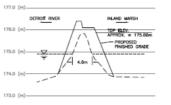




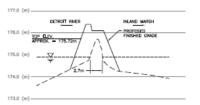
SECTION 11 (AT ST. 1+230) ST. 1+158 TO 1+283



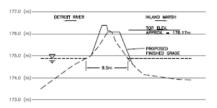
SECTION 11 (AT ST. 1+268) ST. 1+158 TO 1+283



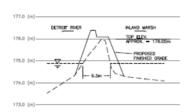
SECTION 12 (AT ST. 1+370) ST. 1+325 TO 1+652



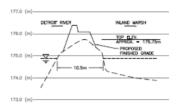
SECTION 12 (AT ST. 1+433) ST. 1+325 TO 1+652



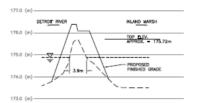
SECTION 12 (AT ST. 1+489) ST. 1+325 TO 1+652



SECTION 2 (AT ST. 1+559) ST. 1+325 TO 1+652



SECTION 12 (AT ST. 1+583) ST. 1+325 TO 1+652



SECTION 12 (AT ST. 1+628) ST. 1+325 TO 1+652

EXISTING DISTRESSED DYKE SECTIONS

GCALE 1250 HORIZONTAL.
150 VERTICAL.



JRZ 4PR. 2022 to APR. 2022 DMK 4PR. 2022

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MMA MARSH EROSION PROTECTION AND HABITAT IMPROVEMENTS

EXISTING SITE SECTIONS - 2 5 . 5

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21-049-05