



Conservation and Water Stewardship

Environmental Stewardship Division
Environmental Approvals Branch
123 Main Street, Suite 160, Winnipeg, Manitoba R3C 1A5
T 204 945-8321 F 204 945-5229
www.gov.mb.ca/conservation/eal

Client File No.: 4351.00

March 6, 2014

Mr. Robert Poirier
Cartier Regional Water Cooperative Ltd.
1060 Highway 26
St. Francois Xavier MB R4L 1A5

Dear Mr. Poirier:

Re: Notice of Alteration – St. Eustache Water Treatment Plant, Raw Water Storage Pond, Environment Act Licence No. 2358 R

This is in response to a letter of February 21, 2014 from Mr. Ken Anderson of Associated Engineering concerning a proposed alteration to the Cooperative's St. Eustache water treatment plant. The alteration involves the construction and operation of a second raw water storage pond north of the existing facilities.

As the environmental effects of the alteration are insignificant, the alteration is deemed to be minor pursuant to Section 14(2) of The Environment Act. Approval is hereby provided to proceed with the implementation of the proposed alteration.

Yours truly,

“Originally signed by”

Tracey Braun, M. Sc.
Director
Environment Act

- c. K. Anderson, Associated Engineering (Sask) Ltd.
D. Shwaluk, Manitoba Water Services Board
K. Barlishen, Office of Drinking Water
R. Matthews, Water Use Licensing
D. Labossiere / D. Smiley, Environmental Compliance and Enforcement
Public Registries



Associated
Engineering

GLOBAL PERSPECTIVE.
LOCAL FOCUS.

Associated Engineering (Sask.) Ltd.
203 – Five Donald Street
Winnipeg, Manitoba, Canada, R3L 2T4

TEL: 204.942.6391
FAX: 204.942.6399
www.ae.ca

February 21, 2014

File: 2013-4232.000.E.400

Ms. Tracey Braun, M. Sc.
Director, Environmental Approvals
Manitoba Conservation
123 Main St Suite 160
Winnipeg MB R3C 1A5

**Re: NOTICE OF ALTERATION REQUEST FOR
THE CARTIER REGIONAL WATER TREATMENT PLANT IN ST. EUSTACHE
FOR THE CONSTRUCTION OF A NEW RAW WATER POND**

Dear Ms. Braun:

On behalf of the Cartier Regional Water Cooperative (CRWC), please find enclosed one hard copy and one electronic copy of the Notice of Alteration request for the above mentioned project. Also enclosed is a \$500 check for the review fee.

This notice requests an alteration to the existing Licence 2358R for the construction of a second raw water impoundment pond. At 60 dam³, the new pond could be considered a Class 2 development. The CRWC is in the process of transferring the land from the current land owners. As part of the land subdivision process, the approval of this alteration request is required.

We trust that the enclosed application contains sufficient information for your staff to conduct their review and approvals process in a timely and efficient manner. Should the reviewer require any additional information or require any clarifications, please do not hesitate to contact myself.

We thank you for your consideration of this application.

Yours truly,
ASSOCIATED ENGINEERING (SASK) Ltd.

Ken Anderson, P.Eng.
Manger, Water

Encls.

CC: Manitoba Water Services Board

February 19, 2014

File: 2012-4232.000

Ms. Tracey Braun, M. Sc.
Director, Environmental Approvals
Manitoba Conservation
123 Main St Suite 160
Winnipeg MB R3C 1A5

**Re: NOTICE OF ALTERATION REQUEST FOR
THE CARTIER REGIONAL WATER TREATMENT PLANT IN ST. EUSTACHE
FOR THE CONSTRUCTION OF A NEW RAW WATER POND**

Dear Ms. Braun:

In accordance with the Environment Act (Section 14), this submission is a request for a minor alteration to the current EAL No. 2358R for the Cartier Regional Water Cooperative. Under the Environment Act Section 3, the proposed development would be classified a Class 2 Development as a water supply impoundment. Please find enclosed a cheque for the \$500 fee for this alteration review.

The proposed development will be located on part of lots 34, 35, and 36 in the Parish of Baie St. Paul, just north of the existing water treatment plant near St. Eustache. The current land use is General Agricultural.

The proposed development consists of a new 60,000 cubic metre (60 dam³) aerated raw water impoundment pond. The approximate cell dimensions and depth are 200m x 150m x 6.0m deep, which closely match those of the existing pond. To construct the pond, an excavation will lower the pond footprint by approximately 4.0 metres and the removed earth will be used to construct 2.0 tall berms around the pond. The embankment slopes will be 5:1 and seeded for natural vegetation growth. New site piping will connect the new pond with the existing pond next to the water treatment plant. The purpose of the new pond is to provide redundancy in the raw water storage and to increase storage capacity. The new pond will allow the original pond to be taken off line and emptied for maintenance and cleaning. The new pond will also create additional storage capacity for any future upgrades to the water treatment plant. The existing pond can provide 15 to 20 days of storage of raw water, the new pond will double this storage period. The storage period is typically required during spring turbidity events when the raw water pumps are turned off to avoid drawing in this poor quality water.

Normal operation of the raw water ponds will be in series; raw water from the River will be pumped to the new pond where it will then flow to the original pond and then into the water treatment plant. The piping will also be arranged to allow either of the two ponds to be taken off line, and the remaining pond can remain in operation. The new pond will incorporate an engineered aeration system to help prevent stagnation in the water column. The original pond will also have its aeration system upgraded for improved turnover rates.

February 19, 2014
 Ms. Tracey Braun, M. Sc.
 Manitoba Conservation
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Similarly to the existing pond, the new pond will have a perimeter fence installed and a normally locked access gate.

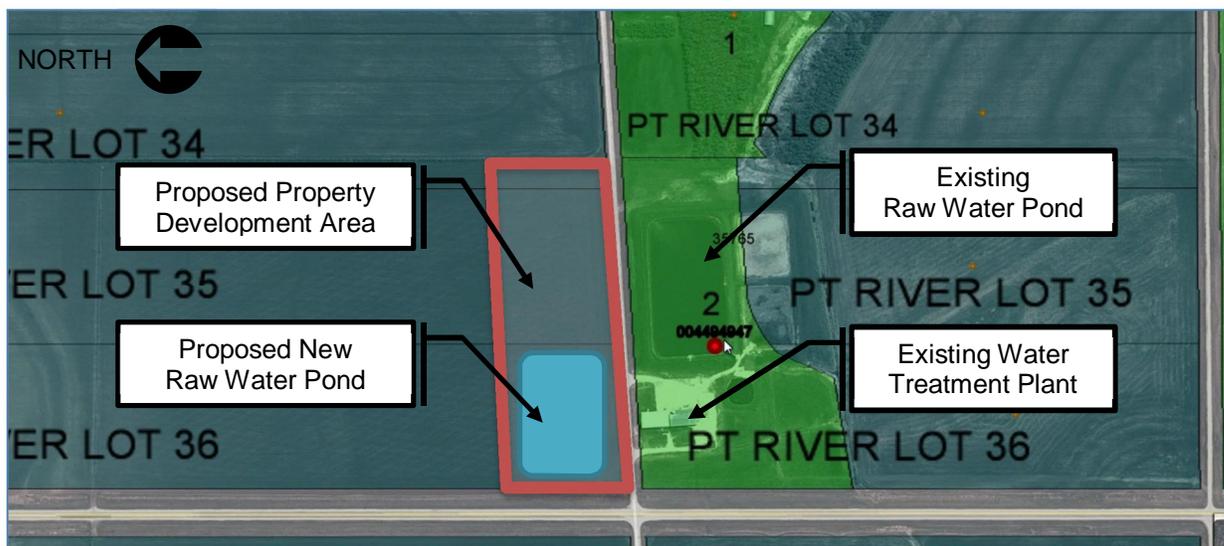
The proposed development will not alter the current operation of the existing water treatment plant. The plant capacity will remain unchanged as well as the withdrawal rate from the River. The increased storage volume will allow the plant to temporarily cease drawing water from the River during high turbidity events for a longer period of time.

The area of construction will generally be limited to a parcel of land 157m x 425m (6.68 hectares) immediately north of the existing water treatment plant north of St. Eustache. Inter-pond piping will also be installed in the developed water treatment plant property. The Cartier Regional Water Cooperative is currently in the process of subdividing the land for purchase from the land owner. The subdivision process is contingent upon the approval of this alteration request.

The proposed development will be located on agricultural land where crops are currently grown on the land. Therefore, the environmental effects of the proposed development are deemed to be insignificant on this site. Very little material will be brought onto the site and minimal material will leave the site. There are no trees to remove, nor any natural vegetation to be removed. Standard environmental safety practices will be in place during construction to reduce any short term impacts.

Figure 1 is an overall site plan showing the property limits and the proposed development area as it relates to the existing water treatment plant. Figure 2 is a photo of the development area showing its agricultural use.

Figure 1 – Overall Site Plan of Area





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Ms. Tracey Braun, M. Sc.
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Figure 2 – Photo of Proposed Development Area (Looking North)



If there are any questions regarding this submission, please contact the undersigned.

As part of the proposed works, a Predesign study was prepared by Associated Engineering in 2013; a copy of this report is available upon request.

Yours truly,

A handwritten signature in blue ink that reads "Ken Anderson".

Ken Anderson, P.Eng.
Manager, Water

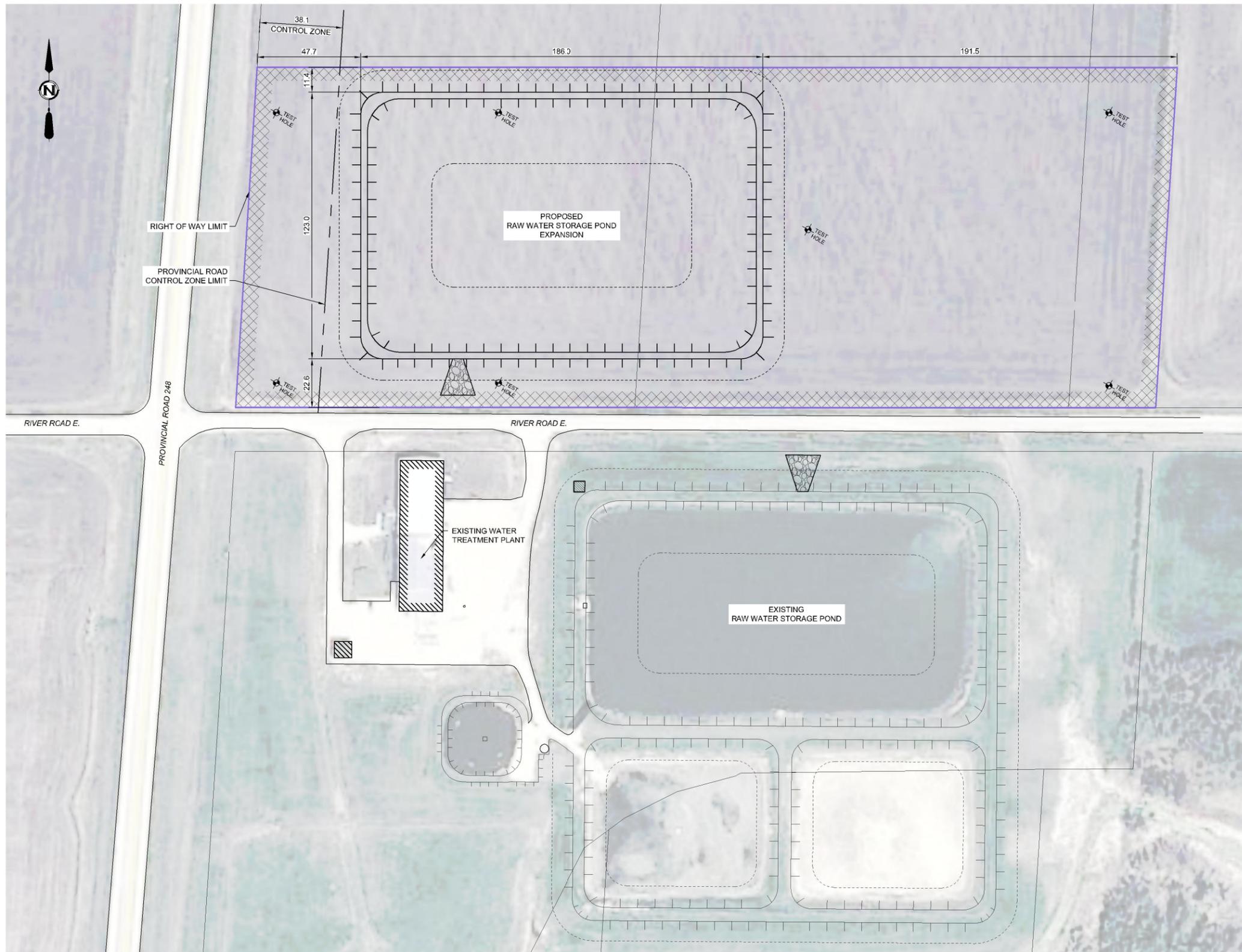
Email: andersonk@ae.ca

Ph: (204) 942-6391

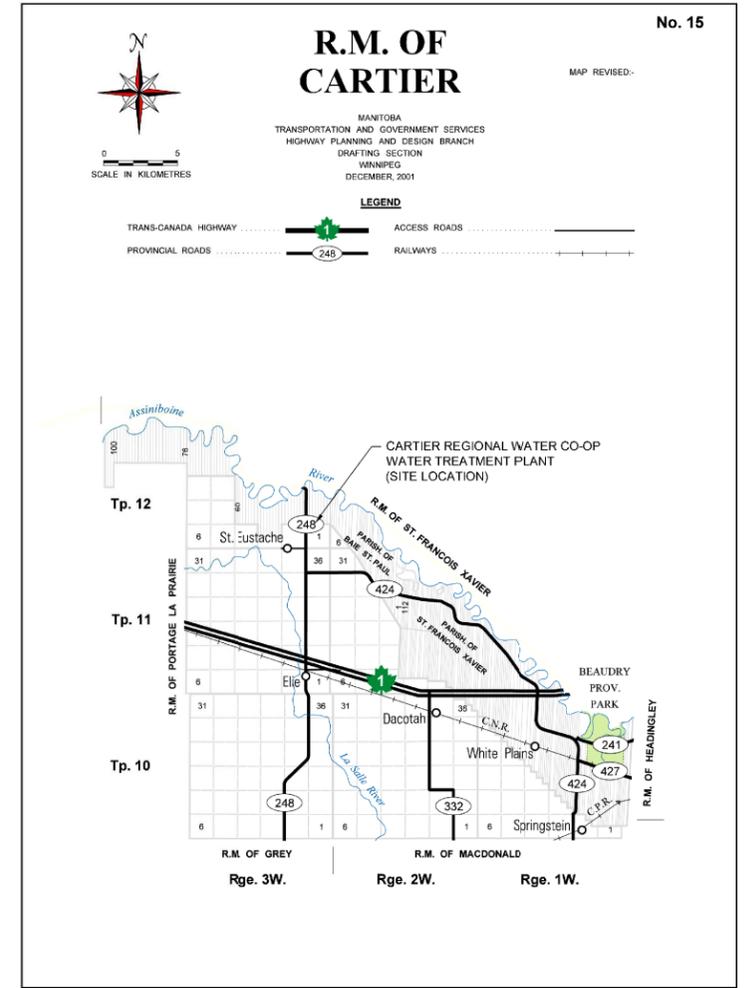
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Fee.

This Drawing is For The Use Of The Client And Project Indicated
No Representations Of Any Kind Are Made To Other Parties



1 PLAN 1:1000
OVERALL SITE



2 PLAN NTS
KEY

**DRAWING
REDUCED TO
HALF SIZE**

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NO.	DATE	ENG.	BY	SUBJECT
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REVISIONS				

**PRELIMINARY
NOT FOR
CONSTRUCTION**

DRAFT



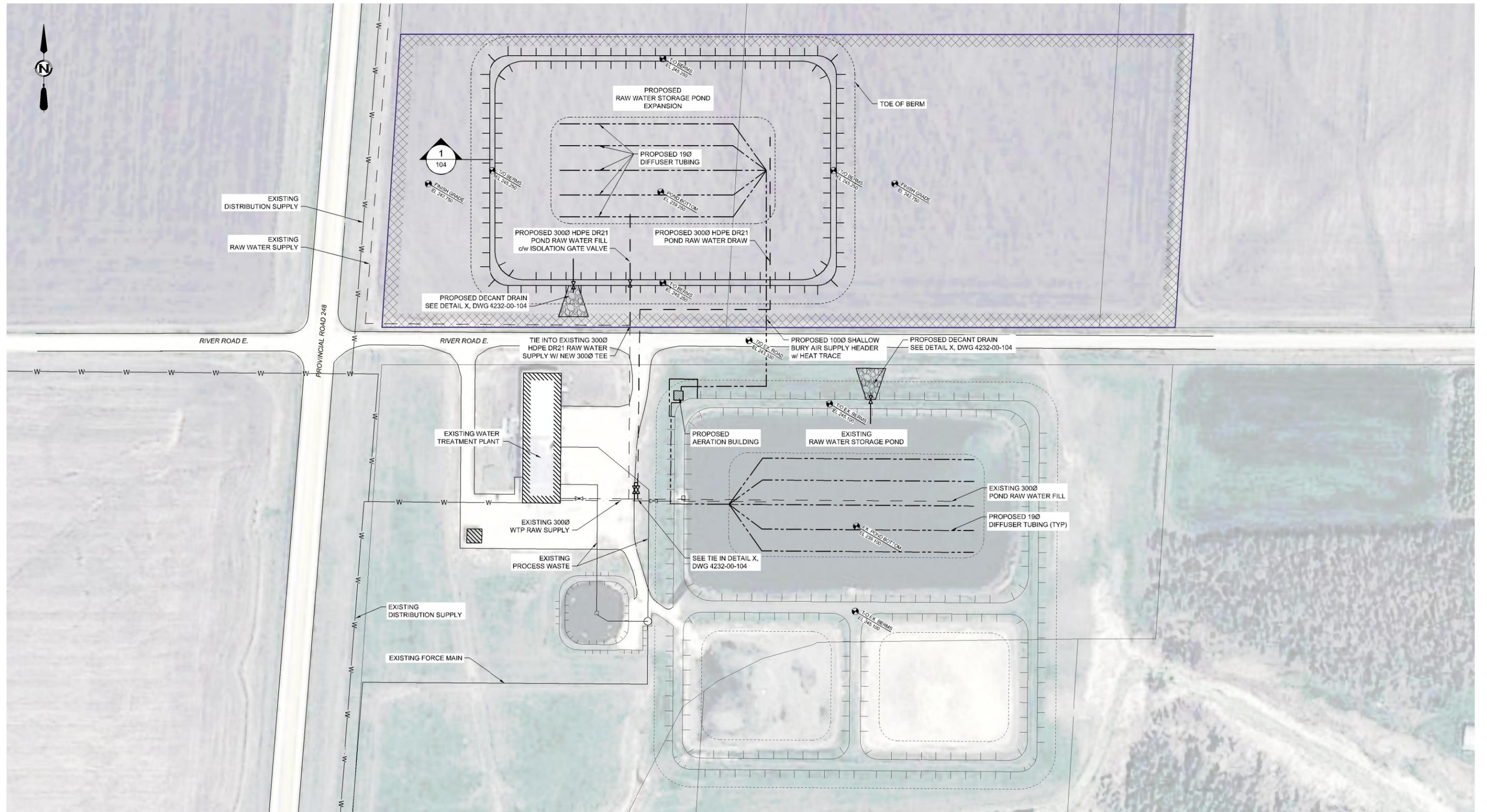
PROJECT No.	2013-4232-00
SCALE	AS SHOWN
DRAWN	D. PASTORIN
DESIGNED	K. ANDERSON

M.W.S.B. &
R.M. OF CARTIER

CIVIL
OVERALL SITE & KEY PLAN

CARTIER REGIONAL WATER CO-OP RAW WATER STORAGE POND EXPANSION M.W.S.B. # XXXX		
DRAWING NUMBER	REV. NO.	SHEET
4232-00-101	A	2 / XX

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1 PLAN 1:1000
OVERALL SITE

**DRAWING
REDUCED TO
HALF SIZE**

**PRELIMINARY
NOT FOR
CONSTRUCTION**
DRAFT



PROJECT No.	2013-4232-00
SCALE	AS SHOWN
DRAWN	D. PASTORIN
DESIGNED	K. ANDERSON

**M.W.S.B. &
R.M. OF CARTIER**

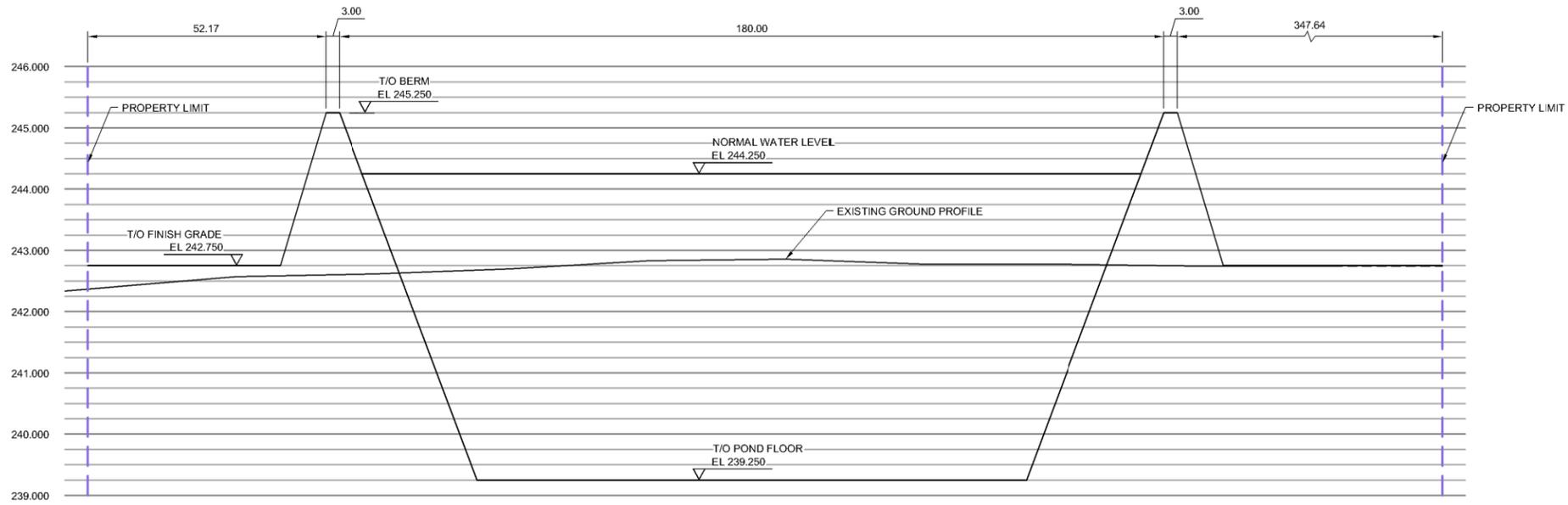
CIVIL
DETAILED SITE & GRADING PLAN

CARTIER REGIONAL WATER CO-OP RAW WATER STORAGE POND EXPANSION M.W.S.B. # XXXX		
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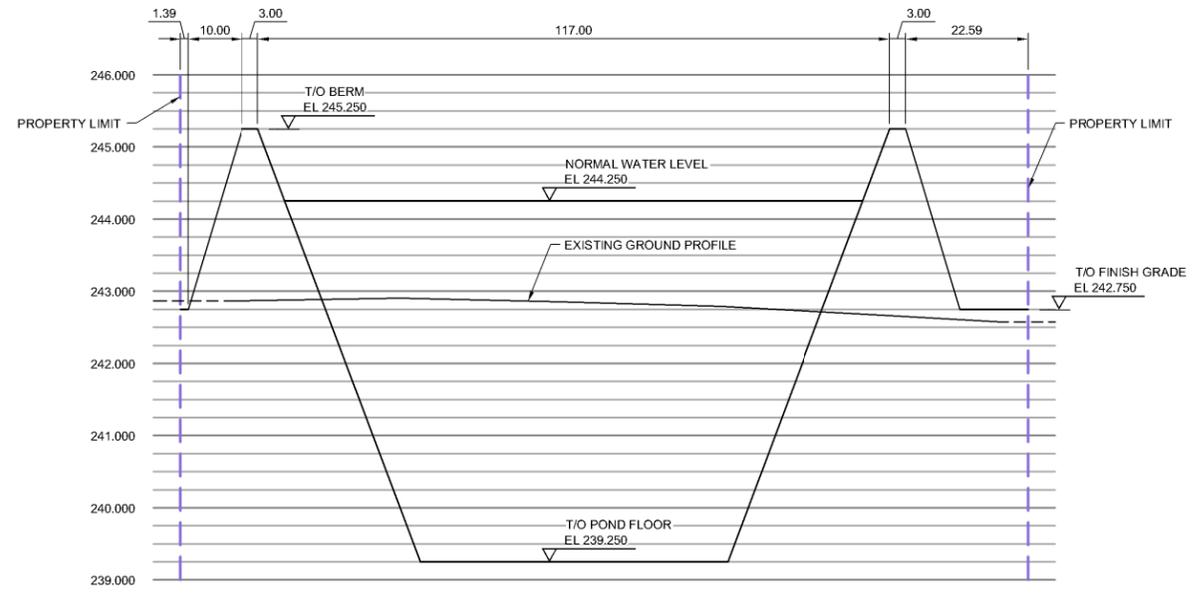
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REVISIONS				

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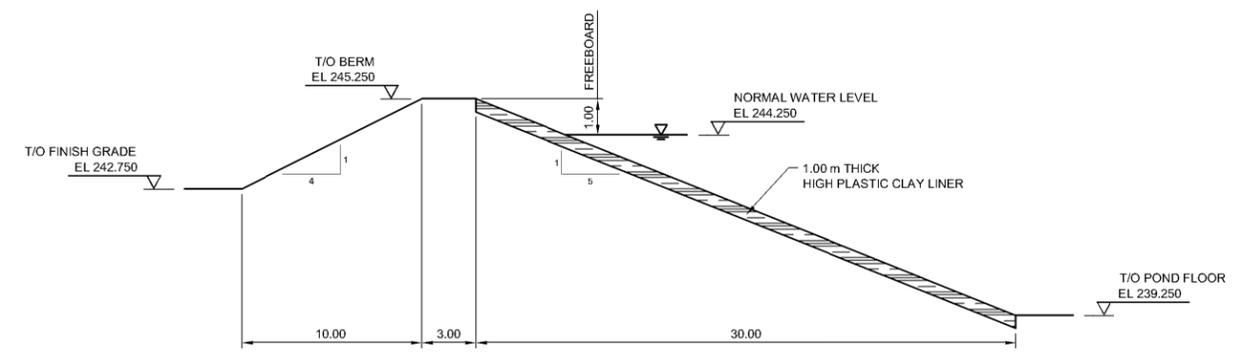
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1 SECTION H 1:1500, V 1:50
RAW WATER POND



2 SECTION H 1:1500, V 1:50
RAW WATER POND



3 SECTION NTS
TYPICAL BERM

**DRAWING
REDUCED TO
HALF SIZE**

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REVISIONS				

**PRELIMINARY
NOT FOR
CONSTRUCTION**

DRAFT



PROJECT No.	2013-4232-00
SCALE	AS SHOWN
DRAWN	D. PASTORIN
DESIGNED	K. ANDERSON

**M.W.S.B. &
R.M. OF CARTIER**

CIVIL
RAW WATER POND SECTIONS

CARTIER REGIONAL WATER CO-OP RAW WATER STORAGE POND EXPANSION M.W.S.B. # XXXX		
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