APPENDIX 1

PUBLIC CONSULTATION

APPENDIX 1 – 1

PUBLIC NOTICES

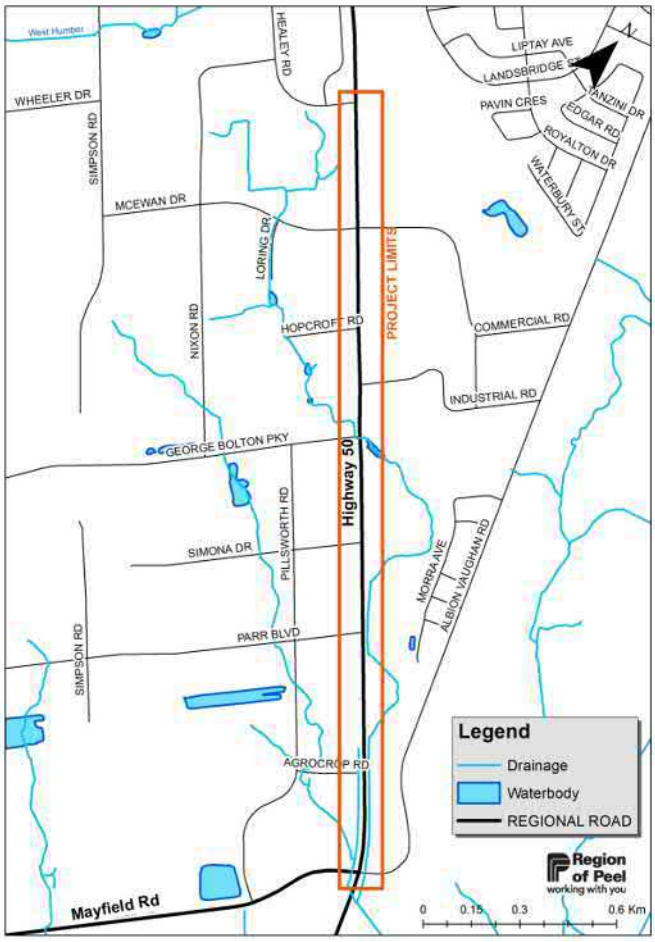
Public Notice

Region of Peel
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Notice of Commencement

Municipal Class Environmental Assessment (Schedule B) and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield to Healey Road

The Region of Peel has initiated a Schedule "B" Municipal Class Environmental Assessment (Class EA) study for the drainage improvements of Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon. The culverts and drainage ditches are in poor condition and require improvement and upgrading. To address this, the study will consider best industry practices, satisfy climate change requirements and comply with existing and future regulatory requirements.



As part of the project, active transportation improvements (i.e. pedestrian and cycling amenities) along the corridor will also be developed in accordance with the recommendations of the Region's *Sustainable Transportation Strategy (STS)*.

The project is being completed as a Schedule "B" project in accordance with the *Municipal Class Environmental Assessment (October 2000, amended in 2007, 2011 & 2015)*. As such, public and technical agency consultation will be fundamental in developing the study recommendations.

Your Input is Important

The study will take approximately two years to complete. The Region wants to ensure that anyone with an interest in this study has the opportunity to be involved and to provide input. As the study progresses, the review material will be updated at the Region's website at:
https://www.peelregion.ca/pw/transportation/construction/environmental-assessment/caledon.asp

Due to the current COVID-19 Provincial restrictions, in-person public consultation sessions cannot be held at this time. Alternative solutions, evaluation of alternatives and recommended improvements will be presented later in the study. Further details will be provided at the appropriate time.

Contact

To submit your comments, if you would like more information or to be included on the mailing list for this project, please contact one of the following members of the Project Team. All comments received will be considered in the development of the study recommendations.

Region of Peel
Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
416-407-7860
syeda.banuri @peelregion.ca
10 Peel Centre Drive, Suite B, Flr 4
Brampton, ON L6T 4B9

R.V. Anderson Associates Limited
Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals
905-685-5049
AMcGregor@rvanderson.com
43 Church Street, Suite 104
St. Catharines, ON L2R 7E1

Construction statement regarding COVID-19

Critical infrastructure construction is an essential service. We're keeping employees, contractors and the community safe by complying with provincial guidelines, physical distancing, using personal protective equipment, and adjusting work schedules and shifts.

Construction project updates can be found at peelregion.ca/construction .
Follow Peel Public Works on Twitter for service updates and changes.

This notice was first issued on June 25, 2020.

The Region of Peel is committed to ensure that all Regional services, programs and facilities are inclusive and accessible for persons with disabilities. Please contact the Project Manager if you need any disability accommodations to provide comments or feedback for this study.

From: Courtney Row
Sent: June 25, 2020 4:18 PM
To: Courtney Row
Cc: Andrew McGregor; Banuri, Syeda
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement
Attachments: ROP Hwy 50 Drainage Improvements EA-Notice of Commencement.pdf

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

To address this, the study will consider:

- Best Industry Practices
- Climate Change Requirements
- Existing and Future Regulatory Requirements

In developing recommendations, all reasonable alternatives will be considered to minimize impact on adjacent businesses and the surrounding environment.

The intent of this email is to introduce you to the project and to request any relevant background information from you as it relates to the study area. Information that would be of interest includes:

- Contact information and the identification of individuals that represent your agency or group that we should include as a primary contact throughout the study process;
- Description of the existing conditions or sensitivities within the study area as they relate to your interests; and
- Specific issues, concerns and/or expectations that your agency, community or group may have.

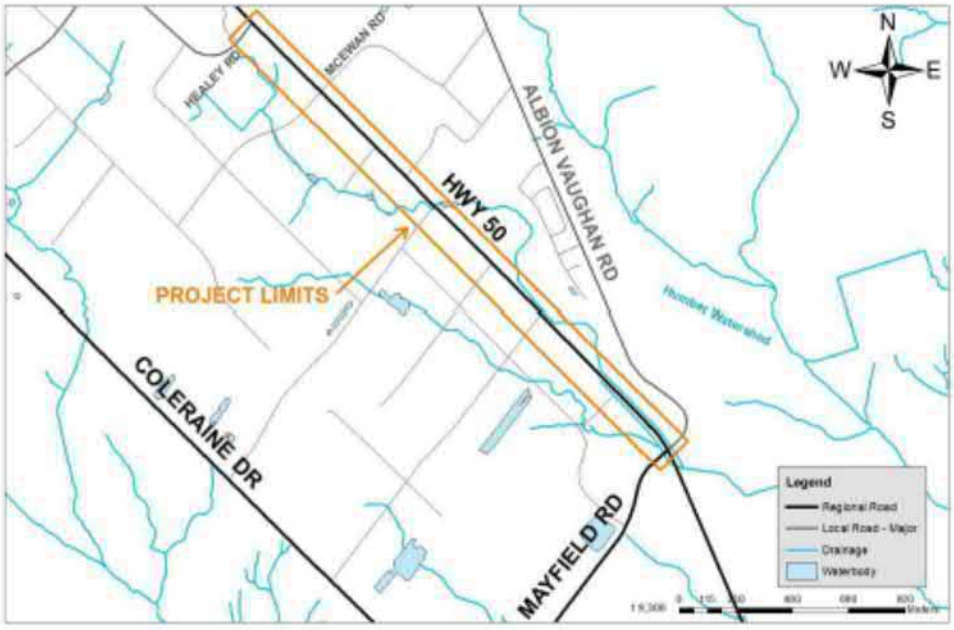
The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration. Information will also be posted on the study website (link below) as the study progresses.

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

Please respond with your comments or any questions by directly contacting the Project Manager, Syeda Banuri, listed on the attached notice.

Regards,

Environmental Assessment and Preliminary Design for Drainage Improvements of Regional Road Highway 50 from Mayfield Road to Healey Road, Caledon



The Region of Peel has initiated a Schedule 'B' Municipal Class Environmental Assessment (Class EA) study to replace failing culvert crossings and improve existing drainage and stormwater management features along Regional Road Highway 50 from Mayfield Road to Healey Road in the Town of Caledon.

As part of this undertaking, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's *Sustainable Transportation Strategy*, to satisfy the requirements for Active Transportation (AT) within the corridor. This study is being carried out in accordance with the Municipal Engineers Association guidelines.

As part of the study, alternative solutions that address the study requirements will be explored. Public consultation is strongly encouraged throughout the project. All comments will be reviewed for consideration in the development of the study recommendations.

If you would like more information, or to be included on the mailing list for this project, please contact one of the following members of the Project Team:

Region of Peel
Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Tel: 905-791-7800, ext. 4052
E-mail: syeda.banuri @peelregion.ca
Region of Peel
10 Peel Centre Drive, Suite B, 4th Fl.
Brampton, ON L6T 4B9

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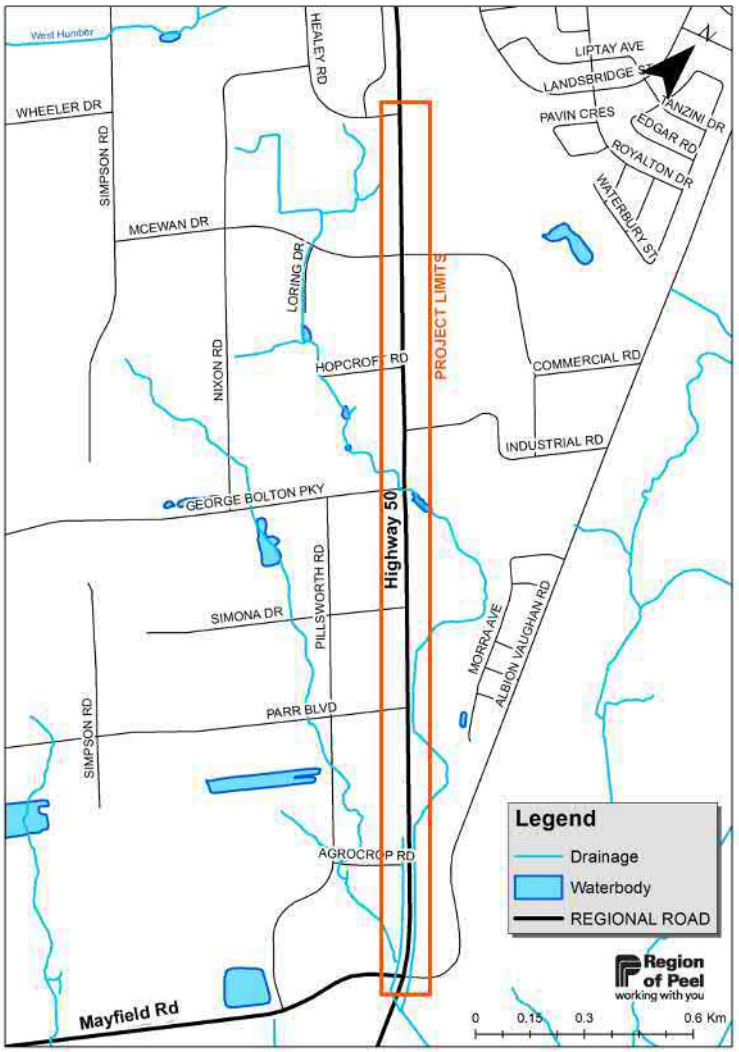
Public Notice

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MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

ENVIRONMENTAL ASSESSMENT AND PRELIMINARY DESIGN FOR DRAINAGE IMPROVEMENTS OF REGIONAL ROAD HIGHWAY 50 FROM MAYFIELD ROAD TO HEALEY ROAD

The Region of Peel has initiated a Municipal Class Environmental Assessment (Class EA) study for the drainage improvements of Regional Road Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon. The culvert crossings and drainage ditches are in poor condition and require replacement to accommodate the existing and future growth around the study area.



In addressing the need to replace the culverts and ditches, the study will consider best industry managed practices, to satisfy climate change requirements and comply with existing and future regulatory requirements.

As part of the project works, active transportation improvements (i.e., pedestrian and cycling amenities) along the corridor will also be developed, in accordance with the recommendations of the Region's Sustainable Transportation Strategy (STS).

The project is being completed as a Schedule "B" project in accordance with the *Municipal Class Environmental Assessment (October 2000, amended in 2007, 2011 & 2015)*. This notice follows as a second point of contact with the public and is outlined in Phase 2 of the process as per the requirements of the *Environmental Assessment Act.* As such, public and technical agency consultation will be fundamental in developing the study recommendations.

Your Input is Important

You are invited to participate in the study by visiting the Region's website at: https://www.peelregion.ca/pw/transportation/construction/environmental-assessment/caledon.asp to review the study materials provided and submit your comments. Alternatively, you may also obtain a hard copy of the study information package and provide input on the study by contacting the project team members below. Due to the current COVID-19 Provincial restrictions, a public

consultation session cannot be held. All comments received will be reviewed for consideration in the development of the study recommendations.

Alternative and recommended improvements developed will be presented later in the study. Details, including time and location/venue, will be provided at the appropriate time. Please provide your comments to the contacts below by May 19th, 2021.

To submit your comments or if you would like more information, or to be included on the mailing list for this project, please contact one of the following members of the Project Team:

Region of Peel
Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
416 - 407 - 7860
syeda.banuri @peelregion.ca
10 Peel Centre Drive, Suite B, Flr 4
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Andrew McGregor, MCIP, RPP
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43 Church Street, Suite 104
St. Catharines, ON L2R 7E1

Construction project updates can be found at peelregion.ca/construction .
Follow Peel Public Works on Twitter for service updates and changes.

This notice was first issued on April 22, 2021.

Construction statement regarding COVID-19
Critical infrastructure construction is an essential service. We're keeping employees, contractors and the community safe by complying with provincial guidelines, physical distancing, using personal protective equipment, and adjusting work schedules and shifts.

With the exception of personal information, all comments will become part of the public record of study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

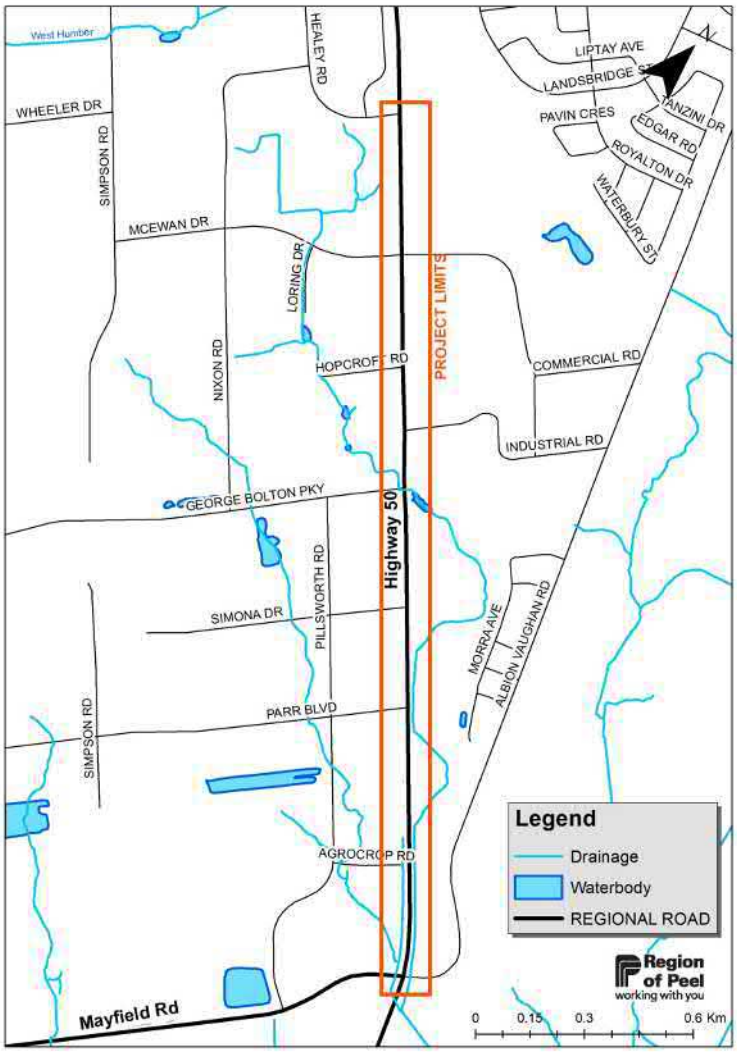
Public Notice

Region of Peel
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MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

ENVIRONMENTAL ASSESSMENT AND PRELIMINARY DESIGN FOR DRAINAGE IMPROVEMENTS OF HIGHWAY 50 FROM MAYFIELD ROAD TO HEALEY ROAD

The Region of Peel has started a Municipal Class Environmental Assessment (Class EA) study for the drainage improvements of Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon. The culvert crossings and drainage ditches are in poor condition and require replacement to accommodate the existing and future growth around the study area.



In addressing the need to replace the culverts and ditches, the study will consider best industry practices, to satisfy climate change requirements and comply with existing and future regulatory requirements.

As part of the project works, active transportation improvements (i.e., pedestrian and cycling amenities) along the corridor will also be developed, in accordance with the Region's Sustainable Transportation Strategy (STS).

Your Input is Important

The Region wants to ensure that anyone with an interest in this study has the opportunity to be involved and to provide input. As of March 17, 2022, presentation materials will be available on the Region's website at:

https://peelregion.ca/hwy50-EA

We invite you to visit the website to review the study materials provided and submit your comments. Alternatively, you may also obtain a hard copy of the study information package and provide input on the study by contacting a project team member listed below. All comments received will be reviewed for consideration in the development of the study recommendations.

Please submit your comments by April 8, 2022 or if you would like more information, or to be included on the mailing list for this project, please contact a member of the project team listed below.

The project is being completed as a Schedule "B" project in accordance with the *Municipal Class Environmental Assessment (October 2000, amended in 2007, 2011 & 2015)*. This notice follows as a second point of contact with the public and is outlined in Phase 2 of the process as per the requirements of the *Environmental Assessment Act.* As such, public and technical agency consultation will be fundamental in developing the study recommendations.

Region of Peel
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Follow @PeelPublicWorks on Twitter for service updates and changes.

This notice was first issued on March 10, 2022

With the exception of personal information, all comments will become part of the public record of study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

Public Notice

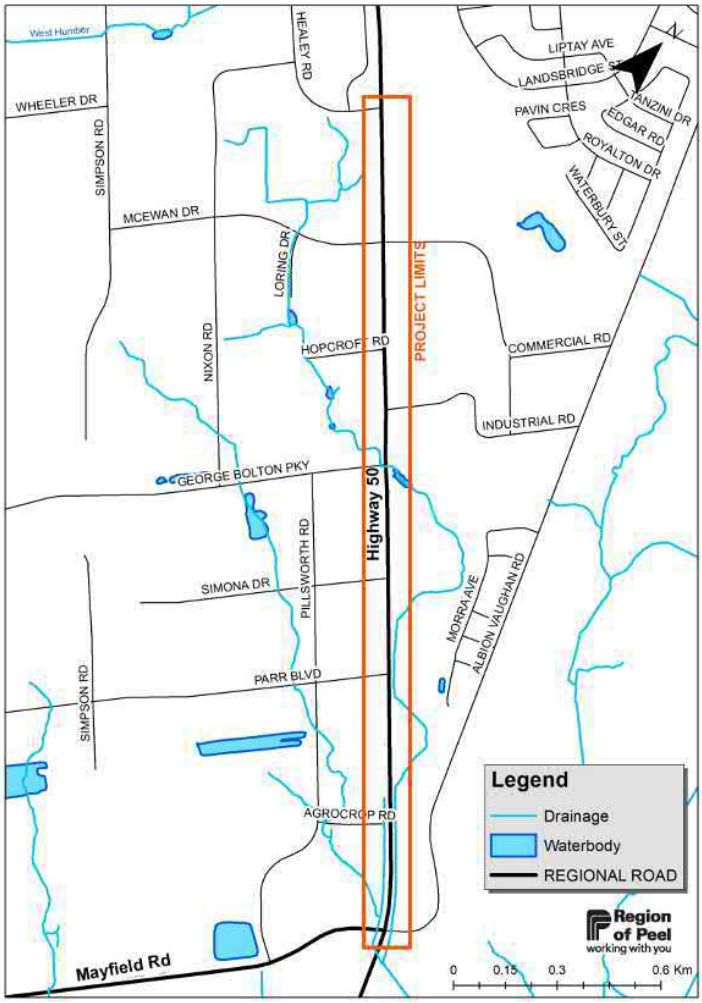
Region of Peel
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NOTICE OF PUBLIC INFORMATION CENTRE NO. 2

Environmental Assessment and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield Road to Healey Road

Background

The Region of Peel is undertaking a Municipal Class Environmental Assessment (Class EA) study for the drainage improvements of Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon. The culvert crossings and drainage ditches are in poor condition and require replacement to accommodate existing and future growth around the study area. The study will consider best management practices, to satisfy climate change requirements and comply with existing and future regulatory requirements. As part of the project works, active transportation improvements (i.e., pedestrian and cycling amenities) along the corridor will also be developed, in accordance with the recommendations of the Region's Sustainable Transportation Strategy (STS).



Process

The project is being completed as a Schedule "B" project in accordance with the *Municipal Class Environmental Assessment (October 2000, amended in 2007, 2011 & 2015)*. This notice follows as a second point of contact with the public and is outlined in Phase 2 of the process as per the requirements of the *Environmental Assessment Act.* As such, public and technical agency consultation will be fundamental in developing the study recommendations.

Your Input is Important

The Region wants to ensure that anyone with an interest in this study has the opportunity to be involved and provide input. Your feedback is important and will help us refine the preferred solution.

Due to COVID-19 Provincial guidelines on physical distancing, the first in-person Public Information Centre (PIC) was cancelled, however, the PIC #1 presentation materials were made available on the Region of Peel website:

https://peelregion.ca/hwy50-EA

The PIC #2 materials will be available online from March 17, 2022 and will also include a summary of the evaluation process to determine the preliminary preferred solution. All content and instructions on how to submit questions and feedback will be outlined on the project website. This will be followed by a three-week question submission period closing April 08, 2022. A formal response to all questions, comments and feedback will be posted on April 22, 2022.

Alternatively, you may also obtain a hard copy of the study information package and provide input on the study by contacting the project team members below. All comments received will be reviewed for consideration in the development of the study recommendations.

Contact

To submit your comments or if you would like more information, or to be included on the mailing list for this project, please contact one of the following members of the project team:

Region of Peel
Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
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syeda.banuri @peelregion.ca
10 Peel Centre Drive, Suite B, Flr 4
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This notice was first issued on March 10, 2022.

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From: Courtney Row
Sent: March 11, 2022 4:56 PM
To: Courtney Row
Cc: Banuri, Syeda; Andrew McGregor
Subject: FW: Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2
Attachments: Region of Peel - EA - Highway 50 Draiage Improvements - Notice of PIC 2.pdf

Warm Greetings,

Please find attached the Notice of Public Information Centre (PIC) 2 for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

The study will consider best management practices, to satisfy climate change requirements and comply with existing and future regulatory requirements.

In developing recommendations, all reasonable alternatives are being considered to minimize impacts on adjacent businesses and the surrounding environment.

The intent of this email is to notify you of study progression, updates to the project and to ensure that anyone with an interest in this study has the opportunity to be involved and provide input.

On March 17, 2022, Public Information Centre (PIC) 2 will be posted to the study website. All content and instructions on how to provide feedback and submit questions is outlined on the Region of Peel project website:

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration.

Please, let me know if you have any questions or comments.

Kind regards,

rva

Courtney Row, CAN-CISEC (she / her)
FIELD / GIS TECHNICIAN

t 416 497 8600 ext. <1372> | m <647 285 9020>
a 2001 Sheppard Avenue East, Suite 300, Toronto, ON M2J 4Z8

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CPL seeking public feedback for development of community makerspaces

BY ROB PAUL

Caledon Public Library (CPL) is taking on a new task to bring the community together and provide residents with the spaces, technology, and creative opportunity through makerspaces.

With federal and provincial support through the Investing in Canada Infrastructure Program (ICIP), along with the Town of Caledon, Caledon Public Library will soon be able to introduce innovative new services and technologies in the reimagined Margaret Dunn Valleywood Branch.

An additional maker space is being developed in tandem with the relocation of the Caledon East Branch to the expanded Caledon East Community Complex.

As a result, CPL is seeking community input on potential makerspace tools, resources, and services that can be implemented into these branches through an online survey.

"Caledon Public Library wants to help people achieve their full potential by providing places where people create, invent, learn together, and build skills for life" explains Colleen Lipp, CEO/Chief Librarian. "We want to hear from our residents. Whether you're interested in learning new skills for fun, to start a new business venture, or to inspire your next big idea, let us know how we could help."

Makerspaces have been a new initiative for libraries across the country as a way to connect communities and support residents through learning with an emphasis on technology, making and creativity.

With the opportunity to shape a makerspace to the makers in the community and other residents' interests, there are many options that these branches have the potential to provide. That's why the library wants to hear from the people of Caledon to see the best way they can serve them.

CPL hired Kelly Doig to be its Coordinator of Community and Creation. Her role, in part, is to help CPL reach more people with its resources through things like makerspaces.

"Libraries used to be passive, now not only do we help in the community, but we give people the tools to create," said Mary Maw, Communications and Community Development for CPL. "We recognized the library needed to get somebody in that position and a lot of Kelly's responsibility will be these makerspaces and developing library services that you'd never expect to see in places like the coffee shop or grocery stores. We're really excited about her position and one of her first tasks are these makerspaces."

"Over the next couple years, we're going to have two makerspaces coming to Caledon," said Doig. "The reimagined Margaret Dunn Valleywood Branch will have a recording studio as well as spaces for working, learning, and meeting and resources for small businesses. That's going to be an exciting place for everyone in Caledon. The next makerspace is being developed along with the relocation of our Caledon East branch to what will be the expanded Caledon East Community Complex—that's a joint effort with the Town."

Makerspaces can include a range of resources such as computers, 3-D printers, audio and video capture and editing tools, musical instruments, sewing machines and traditional arts and crafts supplies.

"The one question we get is what is a makerspace? Some people know the word and others have never heard it," Doig said. "A makerspace is a space that encourages people to explore. It can be technology, making, creating, and the tools can be anything from high-tech audio/video equipment to laser cutters to traditional arts and craft supplies. There's an endless possibility of tools and resources we can put in makerspaces.

"One thing that really struck me when researching them is that it's not about the tools, it's about the people who use the space. That's why we're having to survey, to really see what the residents of Caledon's interests are and what they'd like to see in the space. One of my first tasks in this role was to visit other libraries makerspaces and not one of them is the same as the other. It's really just a space to invent, learn, and work together. Libraries all around the world have been taking them on and we're happy we can finally bring them to Caledon."

With the vast opportunities that makerspaces offer, CPL is aiming to have each of them focus on different needs in Caledon. Though the Margaret Dunn makerspaces will provide creative artists with a recording studio, it's ultimately aimed at helping small business while Caledon East will provide a creative and technologically advanced space for makers.

"We do know in advance that Margaret Dunn will be more of a small business centre; that's lacking and so that's what we're implementing there," said Maw. "We've asked the community things like, 'Do you have a home-based business and you'd like to have a place to work quietly?' That's why we're shaping it that way, but both makerspaces are going to be different. Caledon East is more on the maker end with the technology.

"They'll be different so that we can serve different interests in the community," said Doig.

Libraries have become so much more than a place to borrow a book, especially throughout the pandemic, and CPL is embracing its role in Caledon and working to advance what it can do for creators in the community.

"We re-launched our 'Artful Caledon' platform in the fall, which is platform to highlight artists, authors, and we're adding musicians this year," said Maw. "We're also adding a whole component for creators, so music studios and art studios will be necessary. We're trying to say to the community that if they want to create music, well then they can borrow a guitar at the library and go to our music studio. It all works together. Even if we don't necessarily have designated space in our littler branches, part of Kelly's role is to bring the Cricut with them and do workshops in the branches and we have mobile 3D printers. Even when we don't have the space, we want to offer all the opportunities we can in smaller branches."

Everyone that completes the survey will be entered in a draw to win a Cricut Joy (to win the Cricut Joy you must be a resident of Caledon) from Creativebug, an online platform that offers online video arts and crafts workshops and techniques and is available through CPL's Digital Library. Cricut Joy is a computer-controlled cutting machines that is designed for home crafters.

"Our makerspaces are just so big, and we really need to narrow our options down," said Maw. "The survey even looks at things like what hours work best. If we're trying to offer a space for home-based businesses to go, then maybe they need nights and weekends. We want to gather all the information we can to really make sure we have the right tools and hours. It's even questions about how much support they'll need in the makerspace. Will they need workshops or staff one-on-ones? Even looking at the responses so far you can see the excitement in the community. We're really finding that we've identified a need in the community and it's something we're able to step up and address."

"We've had 85 responses so far (since March 4), I set this goal of 100 but it's sounds like we'll easily get there," said Doig. "The survey was something we knew we wanted to do from the beginning, and we were lucky to have a prize to help get more people to answer the survey. We're also getting answers from across Caledon with one of the questions being, 'what's your main branch?' to get an idea where people in Caledon are answering and it's been from across the Town. It's good to see there's widespread support for this from all corners of Caledon."

As part of the Margaret Dunn Valleywood branch, CPL will also be seeking sponsorship to help cover the resources needed for the recording studio that the grant will not cover. Maw said it's one of the first times CPL will actively be seeking sponsorship.

If you have questions, or want to learn more about makerspaces, CPL is having drop-in makerspace sessions next week between March 15 and March 18 at some of our branches. Staff will be present to demonstrate select maker tools and be available to answer questions about the future CPL makerspaces.

The sessions will take place at these branches: Margaret Dunn Valleywood (March 15 and March 17 from 2 p.m. to 6 p.m.), Caledon Village (March 16 from 10 a.m. to 1 p.m.), Southfields Village (March 16 from 3 p.m. to 7 p.m. and March 18 from 10 a.m. to 1 p.m.), and Caledon East (March 18 from 2 p.m. to 6 p.m.).

Residents can provide feedback via the online survey at www.caledon.library.on.ca/survey.

Public Notice

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NOTICE OF PUBLIC INFORMATION CENTRE NO. 2

Environmental Assessment and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield Road to Healey Road

Background:

The Region of Peel is undertaking a Municipal Class Environmental Assessment (Class EA) study for the drainage improvements of Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon. The culvert crossings and drainage ditches are in poor condition and require replacement to accommodate existing and future growth around the study area. The study will consider best management practices, to satisfy climate change requirements and comply with ex sting and future regulatory requirements. As part of the project works, active transportation improvements (i.e., pedestrian and cycling amenities) along the corridor will also be developed, in accordance with the recommendations of the Region's Sustainable Transportation Strategy (STS).

Process

The project is being completed as a Schedule "B" project in accordance with the *Municipal Class Environmental Assessment (October 2000, amended in 2007, 2011 & 2015)*. This notice follows as a second point of contact with the public and is outlined in Phase 2 of the process as per the requirements of the *Environmental Assessment Act*. As such, public and technical agency consultation will be fundamental in develop ng the study recommendations.

Your Input is Important

The Region wants to ensure that anyone with an interest in this study has the opportunity to be involved and provide input. Your feedback is important and will help us refine the preferred solution.

Due to COVID-19 Provincial guidelines on physical distancing, the first in-person Public Information Centre (PIC) was cancelled, however, the PIC #1 presentation materials were made available on the Region of Peel website:

https://peelregion.ca/hwy50-EA

The PIC #2 materials will be available online from March 17, 2022 and will also include a summary of the evaluation process to determine the preliminary preferred solution. All content and instructions on how to submit questions and feedback will be outlined on the project website. This will be followed by a three-week question submission period closing April 08, 2022. A formal response to all questions, comments and feedback will be posted on April 22, 2022.

Alternatively, you may also obtain a hard copy of the study information package and provide input on the study by contacting the project team members below. All comments received will be reviewed for consideration in the development of the study recommendations.

Contact

To submit your comments or if you would like more information, or to be included on the mailing list for this project, please contact one of the following members of the project team:



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Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
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syeda.banuri @peelregion.ca
10 Peel Centre Drive, Suite B, Flr 4
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Andrew McGregor, MCIP, RPP
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Public Notice

Region of Peel
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NOTICE OF PUBLIC INFORMATION CENTRE NO. 2

Environmental Assessment and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield Road to Healey Road

Background:

The Region of Peel is undertaking a Municipal Class Environmental Assessment (Class EA) study for the drainage improvements of Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon. The culvert crossings and drainage ditches are in poor condition and require replacement to accommodate existing and future growth around the study area. The study will consider best management practices, to satisfy climate change requirements and comply with existing and future regulatory requirements. As part of the project works, active transportation improvements (i.e., pedestrian and cycling amenities) along the corridor will also be developed, in accordance with the recommendations of the Region's Sustainable Transportation Strategy (STS).

Process

The project is being completed as a Schedule "B" project in accordance with the *Municipal Class Environmental Assessment (October 2000, amended in 2007, 2011 & 2015)*. This notice follows as a second point of contact with the public and is outlined in Phase 2 of the process as per the requirements of the *Environmental Assessment Act*. As such, public and technical agency consultation will be fundamental in developing the study recommendations.

Your Input is Important

The Region wants to ensure that anyone with an interest in this study has the opportunity to be involved and provide input. Your feedback is important and will help us refine the preferred solution.

Due to COVID-19 Provincial guidelines on physical distancing, the first in-person Public Information Centre (PIC) was cancelled, however, the PIC #1 presentation materials were made available on the Region of Peel website:

https://peelregion.ca/hwy50-EA

The PIC #2 materials will be available online from March 17, 2022 and will also include a summary of the evaluation process to determine the preliminary preferred solution. All content and instructions on how to submit questions and feedback will be outlined on the project website. This will be followed by a three-week question submission period closing April 08, 2022. A formal response to all questions comments and feedback will be posted on April 22, 2022.

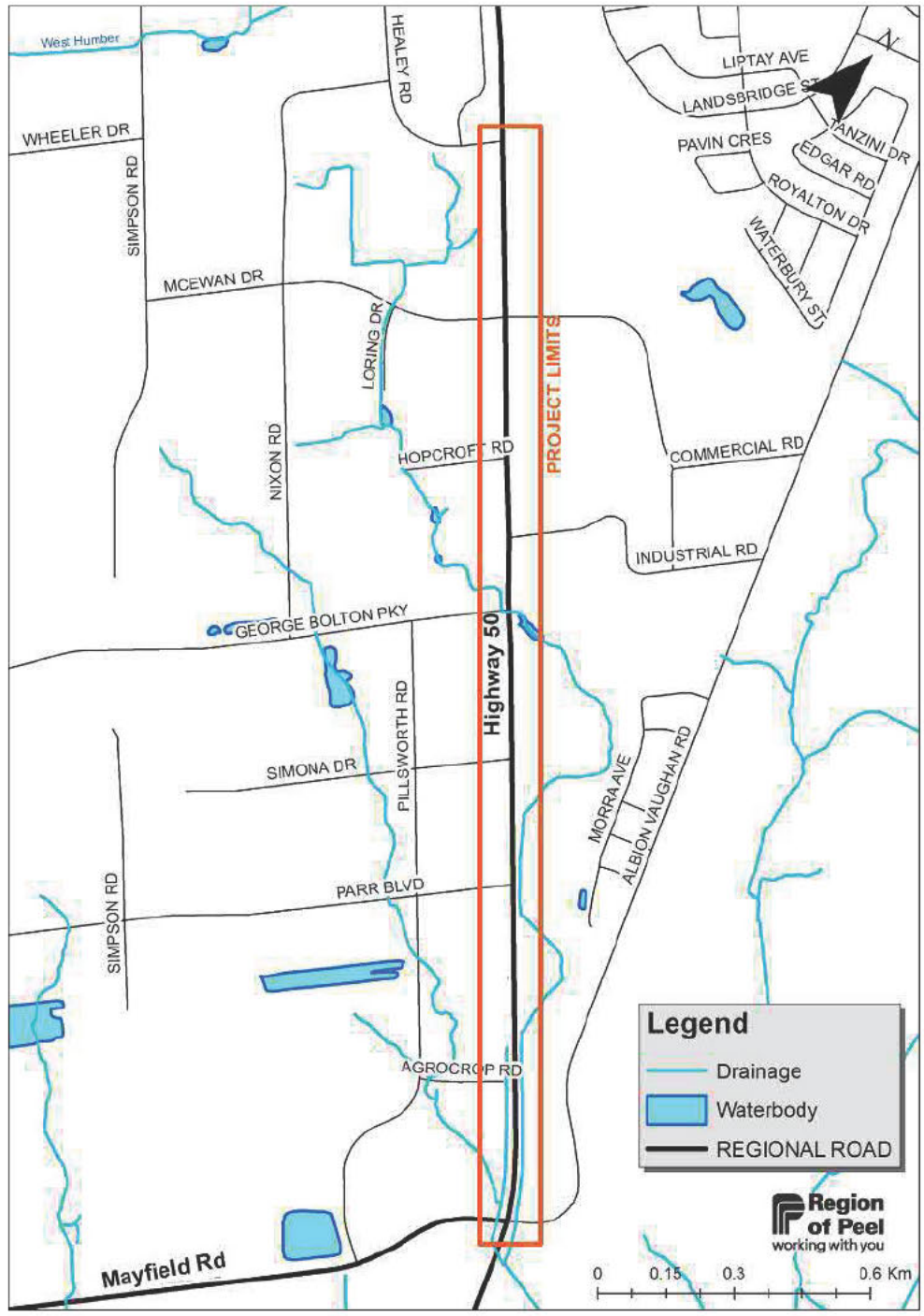
Alternatively, you may also obtain a hard copy of the study information package and provide input on the study by contacting the project team members below. All comments received will be reviewed for consideration in the development of the study recommendations.

Contact

To submit your comments or if you would like more information, or to be included on the mailing list for this project, please contact one of the following members of the project team:

Region of Peel
Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
416-407-7860
syeda.banuri @peelregion.ca
10 Peel Centre Drive, Suite B, Flr 4
Brampton, ON L6T 4B9

R.V. Anderson Associates Limited
Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals
905-685-5049
AMcGregor@rvanderson.com
43 Church Street, Suite 104
St. Catharines, ON L2R 7E1



Construction project updates can be found at peelregion.ca/construction
Follow @PeelPublicWorks on Twitter for service updates and changes.

The Region of Peel is committed to ensure that all Regional services, programs and facilities are inclusive and accessible for persons with disabilities. Please contact the Project Manager if you need any disability accommodations to provide comments or feedback for this study.

This notice was first issued on March 10, 2022.

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Public Notice

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NOTICE OF PUBLIC INFORMATION CENTRE NO. 2

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Background

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syeda.banuri @peelregion.ca
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Brampton, ON L6T 4B9

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Dovelin Hawthorne photo

Dovelin Hawthorne (right) and wife Allison Hawthorne (second to left) with daughters Cheree Hawthorne (left) and Shemiah Hawthorne (second to right) at their Chatime bubble tea franchise they opened in August 2021.

'EXTREME BLESSING': WHY COUPLE OPENED BOLTON CHATIME

JESSICA FONSECA
jfonseca@metroland.com

When Dovelin Hawthorne was younger, he never imagined his life in Canada would be what it is today.

Growing up in a small town in Hanover, Jamaica the community didn't have a lot of resources or money. He had no electricity, no technology, and kids would go to school barefoot.

Since immigrating in 1992, Dovelin has become a front-line service worker, a father of two, and now co-owner with his wife Allison Hawthorne of Chatime, a bubble tea franchise, in Bolton.

"To be given the opportunity to open a Chatime bubble tea store in Bolton, it's an extreme blessing that I can say I've been given more than I've asked for."

The two have always dreamed of opening their own business. They wanted something that was like a café but would pay homage to their Caribbean roots.

Allison is from St. Lucia and since Dovelin is from Jamaica, they are no strangers to tea. It was a part of their everyday life from a young age.

Despite having no background in the food industry, they opened Chatime in Aug. 2021 at 301 Queen St. S. in Bolton.

Being residents in Bolton for 16 years, choosing this location was a no-brainer for the Hawthornes.

"Bolton being a fast-growing community, diverse community and an accepting community, I thought it would be the perfect place to introduce Chatime," said Dovelin.

Since opening in the midst of COVID-19 shutdowns, they have faced additional challenges.

They wanted to have a large grand opening that summer that had to be scaled down, and as soon as Dovelin felt the community was starting to get to know Chatime, the Omicron wave happened.

He said they struggled through this wave. They saw sales reduce and couldn't afford to hire more staff they needed.

During this time, Allison worked 14 to 15 hours a day for 22 days straight covering the job of what multiple people would do.

"That sacrifice is just unbelievable," said Dovelin. "These are the sacrifices that kept us going through COVID."

What he lives by is a saying from Viktor E. Frankl, author of 'Man's Search for Meaning', who said in the book, "Those who have a 'why' to live, can bear with almost any 'how'."

For Dovelin and Allison, their "why" is giving back to their community no matter what it takes.

Their goals for Chatime are to serve their community that has served them for all these years, have transactions become interactions, and be able to share their story and culture.

"If I can get to this place, at this time, coming from where I'm coming from, anyone can accomplish the same thing and even more."

Public Notice

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NOTICE OF PUBLIC INFORMATION CENTRE NO. 2

Environmental Assessment and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield Road to Healey Road

Background:

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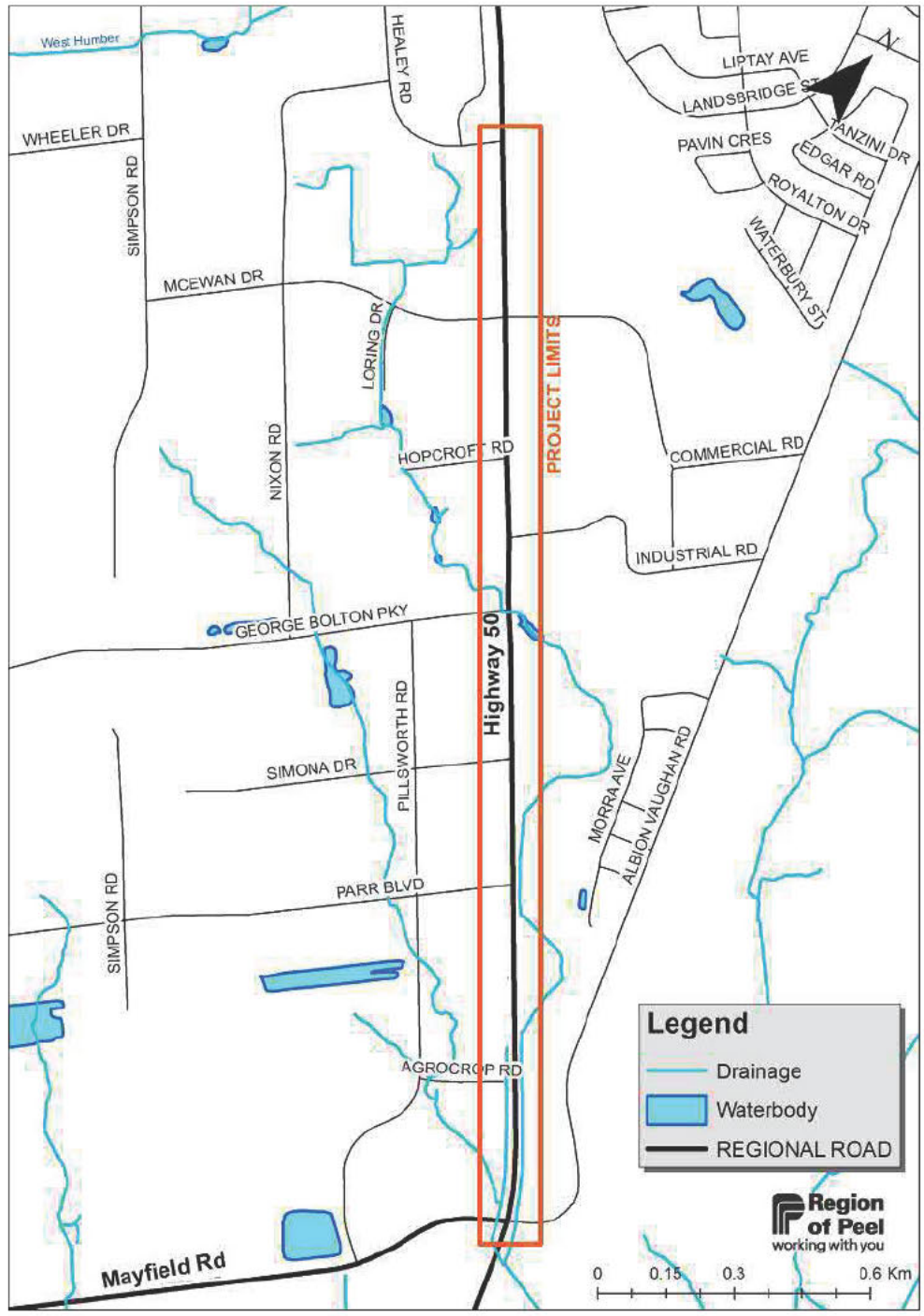
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Region of Peel
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Environmental Assessment and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield Road to Healey Road

Municipal Class Environmental Assessment (Class EA) Study

STUDY PURPOSE

The Region of Peel is undertaking a Municipal Class Environmental Assessment (Class EA) study to address the need for drainage improvements and upgrades required for failing culverts along Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon. As part of the study, active transportation improvements (i.e., pedestrian and cycling amenities) will also be developed. In developing recommendations for the corridor, best management practices will be considered to satisfy climate change requirements and comply with existing and future regulatory requirements.

The project is being completed as a Schedule "B" project in accordance with the *Municipal Class Environmental Assessment (October 2000, amended in 2007, 2011 & 2015)*.

WHERE WE ARE

The alternative solutions have been evaluated and preliminary recommended solutions have been identified. The preliminary recommended solutions will be posted online for public review and input on March 17, 2022.

The public information centre (PIC) #2 presentation materials can be found at:
https://storymaps.arcgis.com/stories/0adb0ace457642c2b90a2088d255a512

The evaluation process considered all public and agency input, and baseline studies completed to date.

The Region of Peel's project website for this project is:
https://peelregion.ca/hwy50-EA

The PIC #1 display boards can be found at:
https://www.peelregion.ca/public-works/environmental-assessments/_media/ea-hwy50-drainage.pdf

COMMUNITY OUTREACH & CONSULTATION

The project team has met with key stakeholders throughout the EA process and will continue to consult with various Regional departments and agencies, including the Toronto and Region Conservation Authority (TRCA), as well as other key stakeholders to solicit input on the preliminary preferred solution.



We are interested in further identifying and involving any community groups, businesses and/or individuals within the study area, and would welcome your support in this matter.

PROJECT SCHEDULE

The estimated project schedule is as follows:

Study Initiation	Spring 2020	✓
Notice of Commencement	June 2020	✓
Phase 1 – Problem/Opportunity Statement (Virtual PIC# 1)	June 2020	✓
Phase2 – Alternative Solutions and Evaluations (Virtual PIC#2)	**March 2022**	
Preliminary Preferred Solution	**Spring 2022**	

CONTACT INFORMATION

Should you have any questions or concerns or would like to further discuss this study, please contact:

Syeda Banuri, M.Eng., P.Eng., Project Manager
Region of Peel
Phone : 416-407-7860
Email: syeda.banuri@peelregion.ca

From: Leonardis, Gloria <gloria.leonardis@peelregion.ca>
Sent: June 5, 2020 11:43 AM
To: Andrew McGregor; Banuri, Syeda
Cc: Courtney Row
Subject: RE: RR50 Drainage Improvements EA ~ NOC and PIC

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

We've run another Canada Post report that is better aligned to the map you provided and has eliminated the 'bleed' into other areas too far west. The result is 2300 units.

Gloria Leonardis
Communications Specialist
905-791-7800 ext. 4667

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: June 5, 2020 10:12 AM
To: Leonardis, Gloria <gloria.leonardis@peelregion.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Courtney Row <CRow@rvanderson.com>
Subject: RE: RR50 Drainage Improvements EA ~ NOC and PIC

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hi Gloria,

Thanks for the update. 5k is a lot. But it reflects the density of the coverage area.

Regards,

Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals
Phone: 416-497-8600 x4211
Cell: 905-964-4056

R.V. Anderson Associates Limited
43 Church Street, Suite 104
St. Catharines, ON L2R 7E1
website | facebook | twitter | linkedin

Our new Halton office is now open
4900 Palladium Way, Suite 200, Burlington, ON.

GREATER TORONTO'S TOP 2020 EMPLOYERS

Region of Peel
working with you

From: Leonardis, Gloria <gloria.leonardis@peelregion.ca>
Sent: June 5, 2020 9:52 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Cc: Courtney Row <CRow@rvanderson.com>
Subject: RE: RR50 Drainage Improvements EA ~ NOC and PIC

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi, the initial report from Canada Post shows about 5500 households inclu businesses and farms. I've asked for a second report just verify but it does seem to be correct.

Once I have the final notice, I can put through the req to request print and distribution.

Thanks,
gloria

Gloria Leonardis
Communications Specialist
905-791-7800 ext. 4667

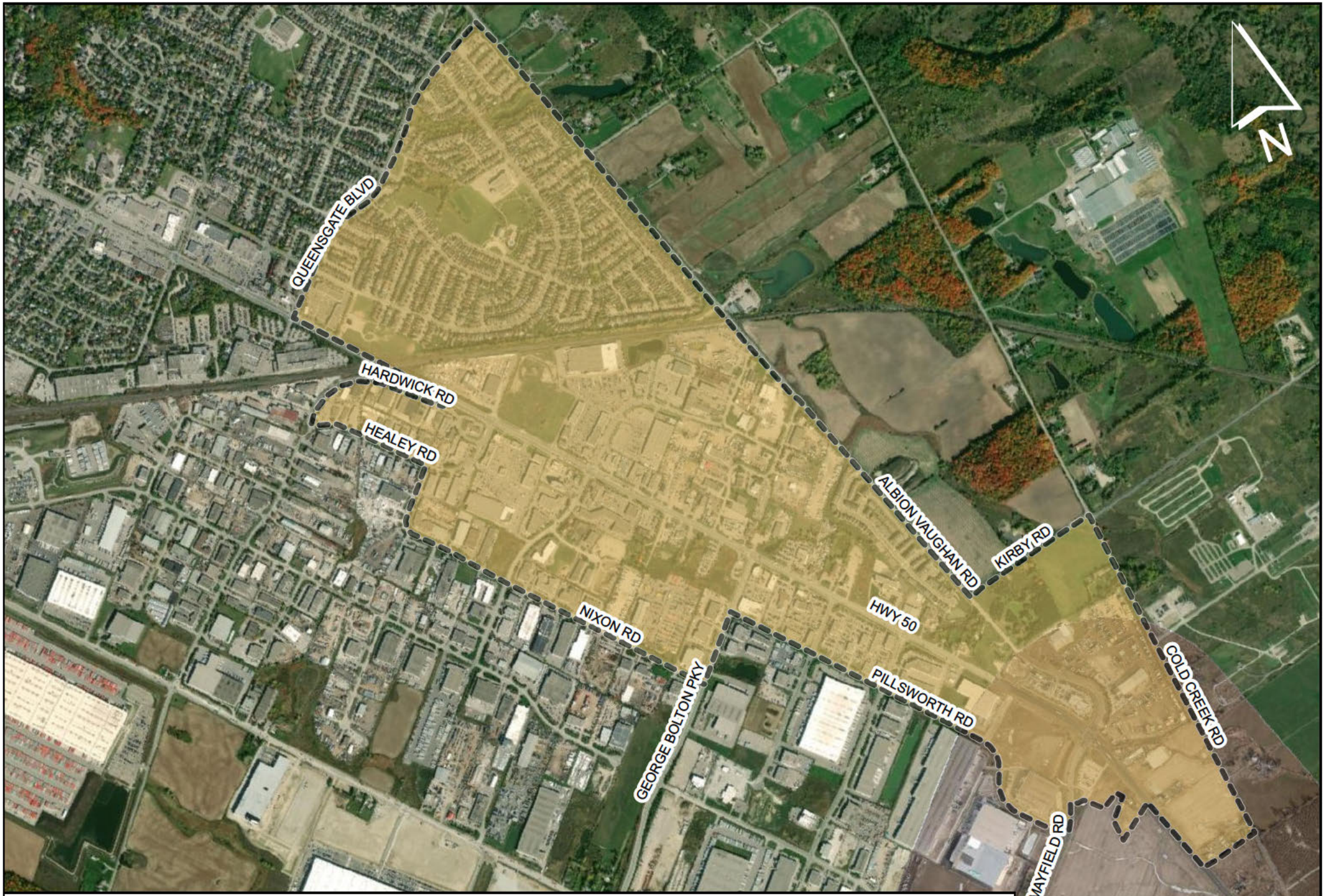
From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: June 4, 2020 12:30 PM
To: Andrew McGregor <AMcGregor@rvanderson.com>; Leonardis, Gloria <gloria.leonardis@peelregion.ca>
Cc: Courtney Row <CRow@rvanderson.com>
Subject: RE: RR50 Drainage Improvements EA ~ NOC and PIC

It looks good.
Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: June 4, 2020 11:48 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Leonardis, Gloria <gloria.leonardis@peelregion.ca>
Cc: Courtney Row <CRow@rvanderson.com>
Subject: RE: RR50 Drainage Improvements EA ~ NOC and PIC

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.



MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

REGIONAL ROAD HIGHWAY 50 FROM MAYFIELD ROAD TO HEALEY ROAD

LEGEND

STUDY NOTIFICATION DISTRIBUTION AREA

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STUDY NOTIFICATION DISTRIBUTION AREA

0 0.4 0.8 1.2 1.6 Kilometers

arva

From:	Courtney Row
Sent:	August 10, 2020 11:50 AM
To:	Courtney Row
Cc:	Banuri, Syeda; kslocki@archeoworks.com; Andrew McGregor
Subject:	Region of Peel Highway 50 Drainage Improvements EA - Stage 1 Archeological Assessment
Attachments:	DRAFT P1059-0068-2020_29July2020_RE_St1_Drainage Improvements on Regional Road Highway 50(5).pdf
Categories:	Filed by Newforma

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Stage 1 Archeological Assessment for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

The intent of this email is to provide an opportunity to comment on the attached document. Please note full archaeological clearance has been recommended.

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration. Further information will also be posted on the study website (link below) as the study progresses.

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

Please respond with your comments or any questions by directly responding to this email.

Miigwech,

RVA IS GROWING!
Our NEW Halton and Halifax offices are now open.

Courtney Row
Field/GIS Technician (Trenchless)

P: (416) 497-8600 ext. 1372
C: (647) 285-9020

R.V. Anderson Associates Limited
2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8

rvanderson.com

RVA celebrates the summer season from June 26th to September 4th. Our offices will be closed at 2 pm each Friday.

Region of Peel working with you

From:	Courtney Row
Sent:	November 17, 2020 4:45 PM
To:	Courtney Row
Cc:	Banuri, Syeda; Andrew McGregor
Subject:	2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA
Attachments:	194615_SWM Recommendation.pdf; 194615_Proposed LID Strategy.pdf; 194615 _MeetingMinutes.docx
Categories:	Filed by Newforma

Dear Sir/Madam,

Thank you for participating in the 2nd Technical Advisory Committee Meeting for the Regional Road 50 Drainage Improvements Environmental Assessment held on October 30th, 2020.

Please find attached for your review and comment 1. the draft meeting notes, 2. preliminary plans showing the proposed multi -use path and storm water management recommendations and 3. summary of the low impact development strategy.

If you have any difficulty with any of the attachments, kindly reply to this email and I will assist you.

To make edits or to request clarification on any information provided please reach out to Syeda Banuri (Region of Peel) or_ Andrew McGregor (R.V. Anderson Associates Limited) directly by November 27th, 2020.

Thank you very much for your time and consideration.

Regards,

rva

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rvanderson.com

Region of Peel
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From:	Courtney Row
Sent:	November 18, 2020 12:41 PM
To:	'Courtney Row'
Cc:	Banuri, Syeda; Andrew McGregor
Subject:	2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA
Attachments:	194615_MeetingMinutes.docx; 194615_SWM Recommendation.pdf; 194615_Proposed LID Strategy.pdf
Categories:	Filed by Newforma

Dear Sir/Madam,

A 2nd Technical Advisory Committee Meeting for the Regional Road 50 Drainage Improvements Environmental Assessment was held on October 30th, 2020.

The information from the meeting is being provided to you as you may have attended the 1st Technical Advisory Meeting on December 13th, 2019 or you are on the Technical Advisory Committee.

Please find attached for your review and comment 1. the draft meeting notes, 2. preliminary plans showing the proposed multi -use path and storm water management recommendations and 3. summary of the low impact development strategy.

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rvanderson.com

Region of Peel
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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: January 7, 2021 3:11 PM
To: Courtney Row
Subject: FW: Regional Road 50 Drainage Improvements EA - TAC 2

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Banuri, Syeda
Sent: January 7, 2021 3:09 PM
To: Rook, Sally <Sally.Rook@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; Tatla, Manvir <Manvir.Tatla@peelregion.ca>; Garbos, Olek <Olek.Garbos@peelregion.ca>; Nieuwenhuysen, Bob <Bob.Nieuwenhuysen@peelregion.ca>; Yack, Judy <Judy.Yack@peelregion.ca>; Bennington, Michael <Michael.Bennington@peelregion.ca>; ZZG-PWI <pwi@peelregion.ca>; Thomsen, Jeanne <Jeanne.Thomsen@peelregion.ca>; Knuckle, Mark <Mark.Knuckle@peelregion.ca>; Salehzadeh, Farshad <farshad.salehzadeh@peelregion.ca>; Crawford, Mark <Mark.Crawford@peelregion.ca>; Gardiner, Len <Len.Gardiner@peelregion.ca>; Reinders, Jamie <jamie.reinders@peelregion.ca>; ZZG-Peel Health & Built Environment <ZZG-PeelHealthBuiltEnvironment@peelregion.ca>; Despins, Christopher <Christopher.Despins@peelregion.ca>; Arash.Olia@caledon.ca; Ryan Grodecki <Ryan.Grodecki@caledon.ca>; Kant Chawla <Kant.Chawla@caledon.ca>; Caroline Mugo <Caroline.Mugo@trca.ca>; Jairo Morelli <Jairo.Morelli@trca.ca>; Hassan, Mohammad <Mohammad.Hassan@peelregion.ca>; Margi Sheth <Margi.Sheth@caledon.ca>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>
Subject: Regional Road 50 Drainage Improvements EA - TAC 2

Dear TAC members,
Happy New Year!
We had our TAC meeting towards the end of last year to discuss the preliminary recommendations and alternatives considered for **Highway 50 Drainage Improvements EA**. We received your initial thoughts at the meeting. The project team has now completed background information studies and prepared a few *draft* reports, *draft* PIC 2 material and *draft* Plans. It is provided for review and feedback. I would like to request to provide your comments for

- Public Info Package 2 and SWM MUP Design by **January 20th , 2021** after which we will be finalizing the draft materials to be presented to public
- The rest of the information by **Jan 29th, 2021**

Region of Peel
working with you

You have previously received an email which provides you access to the draft information (follow the instructions in the email below). Please, let me and/or Courtney know if you are not able to access or have not received the email.

Please, note that a few of you have reviewed and provided comments for some of the information. This is another opportunity for all to review it. Please, feel free to review all of the information but I would request the following staff to review the particular documents identified as their input is crucial. I will appreciate if you can also confirm in case you do not have any comments.

- Public Info Package 2 and SWM MUP Design – All
- Geotech, HydroG, Fluvial and Hydraulic Assessment – Bob, Olek, ZZG-PWI and TRCA
- ESA I and Archaeological, Cultural Assessment – Olek, Town of Caledon
- Natural Heritage – TRCA, Town of Caledon
- Proposed LID Strategy – TRCA
- Rest Areas – Michael Bennington, Sally Rook, Town of Caledon
- MUT Connection – Hassan, Bob, Manvir, Town of Caledon

If you have any comments or questions, please let me know.
Thanks.

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From: Courtney Row <CRow@rvanderson.com>
Sent: January 7, 2021 8:29 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Region of Peel
working with you

From: Courtney Row
Sent: April 24, 2021 10:50 AM
To: Banuri, Syeda; sally.rook@peelregion.ca; anna.lee2@peelregion.ca; Tatla, Manvir; Garbos, Olek; bob.nieuwenhuysen@peelregion.ca; Yack, Judy; Bennington, Michael; pwi@peelregion.ca; jeanne.thomsen@peelregion.ca; mark.knuckle@peelregion.ca; farshad.salehzadeh@peelregion.ca; mark.crawford@peelregion.ca; Gardiner, Len; Reinders, Jamie; zzg-peelhealthbuiltenvironment@peelregion.ca; Despins, Christopher; arash.olia@caledon.ca; ryan.grodecki@caledon.ca; kant.chawla@caledon.ca; Caroline Mugo; jairo.morelli@trca.ca; mohammad.hassan@peelregion.ca; margi.sheth@caledon.ca
Cc: Andrew McGregor; Peter Cho
Subject: RE: Regional Road 50 Drainage Improvements EA - TAC 2

Good morning TAC members!

The project team has completed a draft SWM Report for your review.

2021-04-06-194615-SWM-Report-Draft_Optimized.pdf

You have previously received an email which provides you access to the draft information (follow the instructions in the January 7th email below). Please, let me and/or Syeda know if you are not able to access or have not received the email.

Additionally, next week, the Natural Impact Assessment Report and latest Preliminary Design will be made available for your review and comment.

Regards,

rva

RVA IS GROWING!
Our NEW Halton and Halifax offices are now open.

Courtney Row
Pronouns: she / her
Field/GIS Technician (Trenchless & Environmental)
P: (416) 497-8600 ext. 1372
C: (647) 285-9020
R.V. Anderson Associates Limited
2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8
rvanderson.com

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: January 27, 2021 10:34 AM
To: sally.rook@peelregion.ca; anna.lee2@peelregion.ca; manvir.tatla@peelregion.ca; Garbos, Olek <olek.garbos@peelregion.ca>; bob.nieuwenhuysen@peelregion.ca; Yack, Judy <judy.yack@peelregion.ca>; michael.bennington@peelregion.ca; pwi@peelregion.ca; jeanne.thomsen@peelregion.ca; mark.knuckle@peelregion.ca; farshad.salehzadeh@peelregion.ca; mark.crawford@peelregion.ca; Gardiner, Len <len.gardiner@peelregion.ca>; Reinders, Jamie <jamie.reinders@peelregion.ca>; zzg-peelhealthbuiltenvironment@peelregion.ca; Despins, Christopher <christopher.despins@peelregion.ca>;

Region of Peel working with you

Alternatively, an email was sent out on December 24, 2020, that also has a link to the group. The subject of the email reads: "Courtney Row added you to the 194615 Region of Peel – Highway 50 Drainage Improvements EA group."

In this email please click on the link called: "Go to Sharepoint."

You will be prompted to enter your password for the account the email was sent to. Please enter your password.

You will now either have access to the group or will be prompted to send a message requesting approval. If you are unable to access the groups content, please request approval.

If you have any questions or difficulty accessing the group, please contact me directly.

Courtney Row
(647) 285 9020
crow@rvanderson.com "

Thank you,

RVA IS GROWING!
Our NEW Halton and Halifax offices are now open.

Courtney Row
Pronouns: she / her
Field/GIS Technician (Trenchless & Environmental)

P: (416) 497-8600 ext. 1372
C: (647) 285-9020

R.V. Anderson Associates Limited
2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8

rvanderson.com

From: Courtney Row <CRow@rvanderson.com>
Subject: Re: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

APPENDIX 1 – 2

Technical Agency Stakeholder List

Regional Road 50 Drainage Improvements Class EA
Technical Agency Stakeholder Contact List

Updated: 2022-11-08

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
Provincial Ministries, Agencies and Departments								
Ministry of the Environment, Conservation and Parks (MECP)	Central Region		eanotification.cregion@ontario.ca	Suite 300, 4145 North Service Road, Burlington ON L7L 6A3	1-800-335-5906	*Complete the **project information form** and send copy of notice + form by email* ***NOTICE OF COMMENCEMENT ONLY***		
Ministry of the Environment, Conservation and Parks (MECP)	General (Notices)		MEA.Notices.EAAB@ontario.ca			***NOTICE OF COMPLETION ONLY***		
Ministry of the Environment, Conservation and Parks (MECP)	Trevor Bell	Environmental Resource Planner / EA Coordinator	trevor.bell@ontario.ca	5775 Yonge Street, 8th Floor Toronto, ON	416-326-3469			
Ministry of the Environment, Conservation and Parks (MECP)	Megan Eplett	Management Biologist, Permissions and Compliance, Species at Risk Branch, Ontario Ministry of Environment, Conservation and Parks	megan.eplett@ontario.ca	50 Bloomington Road, Aurora, Ontario, L4G 0L8	289-221-1794		2020-06-15	
Ministry of the Environment, Conservation and Parks (MECP)	Vani Manoharan	(on behalf of Environmental Permissions) Client Service Representative, Client Services & Permissions Branch (CSPB)	Environmental Permissions (MECP) <enviropermissions@ontario.ca>	135 St. Clair Avenue West, 1st Floor Toronto, ON M4V 1P5	416-314-8001		2020-06-26	
~~Ministry of the Environment, Conservation and Parks (MECP)~~	~~Aurora McAllister~~	~~Management Biologist~~	~~aurora.mcallister@ontario.ca~~	~~50 Bloomington Road, Aurora, Ontario L4G 0L8~~	~~905-713-7732~~			2020-06-15
Ministry of Tourism, Culture and Sport (MTCS)	Karla Barboza	Team Lead(A), Heritage Heritage Planning Unit Programs and Services Branch	karla.barboza@ontario.ca	Ministry of Tourism, Culture and Sport 401 Bay Street, Suite 1700 Toronto ON M7A 0A7	416-314 7120			
Ministry of Tourism, Culture and Sport (MTCS)	Dan Minkin	Heritage Planner (Culture Services Unit)	Dan.Minkin@ontario.ca	Suite 1700, 401 Bay Street, Toronto, ON M7A 0A7	416-314-7147			
Ministry of Tourism, Culture and Sport (MTCS)	Rosi Zirger	Heritage Planner (Culture Services Unit)	rosi.zirger@ontario.ca	Suite 1700, 401 Bay Street, Toronto, ON M7A 0A7	416-314-7159			
Infrastructure Ontario	Frank Dieterman		Frank.Dieterman@infrastructureontario.ca	1 Dundas Street West, Suite 2000, Toronto, Ontario M5G 2L5	(416) 212-3768			
~~Infrastructure Ontario~~	~~Alex Lye~~		~~Alex.Lye@infrastructureontario.ca~~	~~1 Dundas Street West, Suite 2000, Toronto, Ontario M5G 2L5~~	~~(416) 212-3768~~	***As of 31st of October 2019 Alex Lye will no longer be working for Infrastructure Ontario***		2020-06-26
Ministry of Transportation	Jason White	Manager	jason.white@ontario.ca	1201 Wilson Avenue, 5th Floor Downsview, ON				
Ministry of Transportation	Dawn Irish	Manager, Environmental Policy	dawn.irish@ontario.ca	Garden City Tower, 2nd Floor, 301 St. Paul Street, ON L2R 7R4	905-704-3179			
Ministry of Natural Resources and Forestry (MNRF)	Steven Strong	District Planner - Aurora District	steven.strong@ontario.ca	50 Bloomington Road Aurora, ON	905-713-7366			

Regional Road 50 Drainage Improvements Class EA
Technical Agency Stakeholder Contact List

Updated: 2022-11-08

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
~~Ministry of Natural Resources and Forestry (MNRF)~~	~~Allison Bannister~~	~~District Planner, Ontario Ministry of Natural Resources and Forestry~~	~~allison.bannister@ontario.ca~~	~~50 Bloomington Road, Aurora, Ontario L4G 0L8~~	~~705-475-5537~~		~~2020-06-26~~	
Ministry of Natural Resources and Forestry (MNRF)	Maria Jawaid	District Planner, Aurora District, Ontario Ministry of Natural Resources and Forestry	maria.jawaid@ontario.ca	50 Bloomington Road, Aurora, Ontario L4G 0L8	905-713-7367		2020-06-26	
~~Ministry of Natural Resources and Forestry (MNRF)~~	~~Bohdan Kowalyk, R.P.F.~~	~~District Planner, Aurora District, Ontario Ministry of Natural Resources and Forestry~~	~~Bohdan.Kowalyk@Ontario.ca~~	~~50 Bloomington Road, Aurora, Ontario L4G 0L8~~	~~905-713-7387~~			2020-06-26
Ministry of Indigenous Affairs		Consultation Unit	moeccpermissions@ontario.ca	160 Bloor Street East, 4th Floor Toronto, ON	416-326-4740	***Ministry of the Environment and Climate Change will work with the proponent***		
Ministry of Aboriginal Affairs	Camille Assam	Executive Assistant to ADM	camille.assam@ontario.ca	160 Bloor Street East, 4th Floor, Toronto ON M7A 2E6	416-326-4772			
Ministry of Aboriginal Affairs	Carlo Oliviero	Chief of Staff	carlo.oliviero@ontario.ca	160 Bloor Street, East, 4th Floor, Toronto ON M7A 2E6	416-505-8448		2020-06-26	
~~Ministry of Aboriginal Affairs~~	~~Karly Jennings~~	~~Administrative Assistant to ADM~~	~~karly.jennings@ontario.ca~~	~~160 Bloor Street, East, 4th Floor, Toronto ON M7A 2E6~~	~~416-314-0603~~			2020-06-26
Ministry of Municipal Affairs and Housing	Aly N. Alibhai	Regional Director	Aly.Alibhai@ontario.ca	College Park, 13th Floor, 777 Bay Street, Toronto ON M5G 2E5	416-585-7264		2020-06-26	
~~Ministry of Municipal Affairs and Housing (EA Policy)~~	~~Audrey Bennett~~	~~Central Municipal Services Office~~	~~Audrey.bennett@ontario.ca~~	~~College Park, 13th Floor, 777 Bay Street, Toronto ON M5G 2E5~~	~~416-585-6063~~			2020-06-26
~~Ministry of Agriculture and Food and Ministry of Rural Affairs~~	~~Jackie Van de Valk~~	~~Rural Planner – Environmental and Land Use Policy~~	~~jackie.vandevalk@ontario.ca~~	~~Elora Resource Centre, unit 10, 6484 Wellington Road 7, Elora ON N0B 1S0~~	~~519-846-3415~~			2020-06-26
Ministry of Agriculture and Food and Ministry of Rural Affairs	Anneleis Eckert	Rural Planner - Central-West, Environmental and Land Use Policy	anneleis.eckert@ontario.ca	Elora Resource Centre, unit 10, 6484 Wellington Road 7, Elora ON N0B 1S0	519-827-6040		2020-06-26	
Environmental Assessment and Permissions Branch		Director	enviropermissions@ontario.ca	135 St. Clair Avenue West, 1st Floor, Toronto ON M4V 1P5				
~~Ontario Provincial Police~~	~~Ms. Gillian Lee~~	~~A/Manager, Research and Program Evaluation Unit / Research Planning & Analysis Section~~	~~gillian.lee@opp.ca~~	~~777 Memorial Avenue, 1st Floor Orillia ON L3V 7V3~~	~~905-329-7571~~			
Federal Agencies								
Fisheries and Oceans Canada	Dan Thompson	Team Leader - Triage and Planning	~~dan.thompson@dfo-mpo.gc.ca~~	867 Lakeshore Road, PO Box 5050, Burlinton, ON L7R 4A6	519-688-3897			
Fisheries and Oceans Canada	Andrew Thomson		andrew.thomson@dfo-mpo.gc.ca		604-666-0753			
Fisheries and Oceans Canada			FisheriesProtection@dfo-mpo.gc.ca	867 Lakeshore Road Burlington, Ontario				

Regional Road 50 Drainage Improvements Class EA
Technical Agency Stakeholder Contact List

Updated: 2022-11-08

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
Environment Canada	Sheelagh Hysenaj	Manager, Environmental Assessment Section	sheelagh.hysenaj@canada.ca	PO Box 5050, 867 Lakeshore Road, Burlington, ON L7S 1A1	416-739-5888		2020-06-25	
~~Environment Canada~~	~~Rob Dobos~~	~~Manager, Environmental Assessment Section~~	~~rob.dobos@canada.ca~~	~~PO Box 5050, 867 Lakeshore Road, Burlington, ON L7S 1A1~~	~~905-336-4953~~	***rob.dobos@ec.gc.ca Email changed 06/25/2020***		2020-06-25
~~GO Transit~~	~~Elise Croll~~	~~Director, Environmental Programs and Assessments~~	~~elise.croll@gotransit.com~~	~~20 Bay Street, Suite 600, Toronto ON M5J 2W3~~	~~416-869-3600 ext. 5520~~	***Spoke Yinka supervisor at contact centre relayed C.Row's information to the PA acting on behalf of the Director. Followed up on July 21, 2020 with Anthony.***		2020-06-25
GO Transit	Gretel Green	Manager, Environmental Programs and Assessments	gretel.green@metrolinx.com	20 Bay Street, Suite 600, Toronto ON M5J 2W3	416-202-1649		2020-07-21	
GO Transit	Liz	Preconstruction Services		20 Bay Street, Suite 600, Toronto ON M5J 2W3	416-202-5064		2020-07-21	
Municipal Departments, Committees and Services								
~~Region of Peel~~	~~Kathryn Lockyer~~	~~Acting Commisioner~~	~~kathryn.lockyer@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905-791-7800 x4325~~	***Now Acting Commisioner. Previous title Regional Clerk and Director of Clerk's.***		2020-01-22
Region of Peel		Regional Clerk	regional.clerk@peelregion.ca	10 Peel Centre Drive, Brampton, ON			2020-06-30	
~~Region of Peel~~	~~Stephanie Jurrius~~	~~Legislative Specialist | Clerk's Division~~	~~stephanie.jurrius@peelregion.ca~~				2020-06-30	2020-06-30
Region of Peel	Ava MacIntyre	Regional Clerk	ava.macintyre@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 x4462	***Assistant Simone 905-791-7800x4545***	2020-01-22	
~~Region of Peel~~	~~Aretha Adams~~	~~Director of Clerk's~~	~~aretha.adams@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905-791-7800 x4095~~	***Assistant Simone 905-791-7800x4545***	2020-01-22	2020-06-30
Region of Peel	Estephan, Therese		Therese.Estephan@peelregion.ca				2021-11-03	
Region of Peel	Rosalie Shan		rosalie.shan@peelregion.ca				2021-11-03	
Region of Peel	Brandon Quigley		brandon.quigley@peelregion.ca				2021-11-03	
Region of Peel	ZZG-PWI		ZZG-PWI <pwi@peelregion.ca>				2021-11-03	
~~Region of Peel~~	~~Steve Ganesh~~	~~Growth Management and Regional Planning Manager~~	~~steve.ganesh@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905 791 7800 X. 7824~~	***Now Growth Management and Regional Planning Manager (no longer working with EAs). Previous title Manager, Engineering and Infrastructure Planning.***		2020-01-22
Region of Peel	Joe Avsec	Strategist Transp Plng & BI	joe.avsec@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 x7910		2020-01-22	
Region of Peel	Andrew Farr	Commisioner of Public Works	andrew.farr@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 x4395	***Now Commisioner of Public Works. Previously Director, Public Works - Water.***	2020-01-22	

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
Region of Peel	Water & Wastewater		pwi@peelregion.ca			***Aug 8 2019: Request that Individuals in the Water and Wastewater group be removed from the contact list and sent to ZZG-PWI mailbox***	2020-08-06	
~~Region of Peel~~	~~Anthony Parente~~	~~General Mgr Water & Wastewater~~	~~anthony.parente@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905-791-7800 x7833~~		2020-01-22	2020-08-06
~~Region of Peel~~	~~Romano Del Tin~~	~~Director, Public Works - Wastewater~~	~~romano.deltin@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905 791 7800 x4404~~	***NO LONGER WITH REGION***		2020-01-22
~~Region of Peel~~	~~Elaine Gilliland~~	~~Director, Public Works - Wastewater~~	~~elaine.gilliland@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905 -791 - 7800x3105~~		2020-01-22	2020-08-06
~~Region of Peel~~	~~Elvis Oliveira~~	~~Dir Water~~	~~Elvis.Oliveira@peelregion.ca~~	~~10 Peel Centre Drive 4TH Suite A~~	~~905-791-7800 x4376~~		2020-06-12	2020-08-06
~~Region of Peel~~	~~Tom Slomke~~	~~Director, Public Works - Development Services~~	~~tom.slomke@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905 791 7800 x4345~~	***NO LONGER WITH REGION***		2020-01-22
Region of Peel	John Hardcastle	Director, Public Works - Development Services	john.hardcastle@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 x4418		2020-01-22	
Region of Peel	Dawn Langtry	Director of Strategy, Policy and Initiatives	dawn.langtry@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 x4138	***Now Director of Strategy, Policy and Initiatives. Previously Public Health, Planning Initiatives***	2020-01-22	
~~Region of Peel~~	~~Gary Kocialek~~	~~Director - Transportation~~	~~gary.kocialek@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905-791-7800 x4100~~	***NO LONGER WITH REGION***	2020-01-22	2020-06-12
Region of Peel	Terry Rickets	Director - Transportation	terry.ricketts@peelregion.ca	10 Peel Centre Drive 4TH Suite B	+1 905-791-7800 x4100		2020-06-12	
Region of Peel	Sally Rook	Manager - Infrastructure Program & Studies	sally.rook@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 x7842	***Manager of IPNS***		
~~Region of Peel~~	~~Angela Stockman~~	~~Technical Analyst - Water and Wastewater Program Planning~~	~~angela.stockman@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905-791-7800 x4143~~	***NO LONGER WITH REGION***		2020-01-22
~~Region of Peel~~	~~Michelle McGee~~	~~Technical Analyst - Water and Wastewater Program Planning~~	~~michelle.mcgee@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905-791-7800 x7104~~		2020-01-22	2020-08-06
Region of Peel	Asha Saddi	Technical Analyst IPNS Public Works	asha.saddi@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 x7794	***Now Technical Analyst IPNS Public Works. Previously Specialist, Infrastructure Programming & Studies Transportation Division***	2020-01-22	
Region of Peel	Vimesh Tharmarajah	Specialist, Infrastructure Programming & Studies Transportation Division	vimesh.tharmarajah@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 x7902		2020-01-22	

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
~~Region of Peel~~	~~Simon Hopton~~	~~Manager, Capital Works Wastewater Division, Public Works~~	~~simon.hopton@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905-791-7800 ext 7808~~	***NO LONGER WITH REGION***		2020-01-22
~~Region of Peel~~	~~Avalon Myers~~	~~Manager, Capital Works, Wastewater Division, Public Works~~	~~avalon.myers@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905 791 7800 x 5053~~		2020-01-22	2020-08-06
Region of Peel	Arthur Lee	SPC Senior Designer Transportation	arthur.lee@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800, ext. 7872	***Now SPC Senior Designer Transportation. Previously Technical Analyst Infrastructure Programming and Studies, Transportation. THESE POSITIONS ARE THE SAME.***	2020-01-22	
Region of Peel	Manvir Tatla	Project Manager, Sustainable Transportation, Public Works	manvir.tatla@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 ex. 4554	***Primary contact for 'Sustainable Transportation'***		
Region of Peel	Sean Carrick	Mgr Traffic & Sustainable Tran	Sean.Carrick@peelregion.ca	10 Peel Centre Drive 4TH Suite B	905-791-7800 x7868		2020-06-12	
Region of Peel	Stefan Herceg	Risk Management Inspector	sourcewater@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 x4489			
Region of Peel	Olek Garbos	Project Manager, Roads – Design and Construction	olek.garbos@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 ext. 7827			
Region of Peel	Bob Nieuwenhuysen	Manager, Roads Design and Construction	bob.nieuwenhuysen@peelregion.ca	10 Peel Centre Drive, Brampton, ON				
Region of Peel	Judy Yack	Manager, Sustainable Transportation	judy.yack@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 ext. 4553			
Region of Peel	Mark Crawford	Manager, Road Operations and Maintenance	mark.crawford@peelregion.ca	10 Peel Centre Drive, Brampton, ON				
Region of Peel	Len Gardiner	Roads Supervisor	len.gardiner@peelregion.ca	10 Peel Centre Drive, Brampton, ON				
~~Region of Peel~~	~~Mark Knuckle~~	~~Project Mgr WW Inf Remediation~~	~~mark.knuckle@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~905-791-7800 ext. 5875~~			2020-08-06

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
Region of Peel	Farshad Salehzadeh	Advisor - Inflow and Infiltration Remediation	farshad.salehzadeh@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 ext. 4182			
~~Region of Peel~~	~~Jason Tran~~	~~Real Estate~~	~~jason.tran@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~		***NO LONGER WITH REGION***		2020-06-12
Region of Peel	Reinders, Jamie <jamie.reinders@peelregion.ca>	Capital Acquisitions Agent	jamie.reinders@peelregion.ca	10 Peel Centre Drive 6TH Suite B	+1 905-791-7800 x7371		2020-06-12	
Region of Peel	Jeanne Thomsen	Acting Program Manager, Infrastructure Planning and Asset Management, State of Good Repair, Public Works, Water and Wastewater	jeanne.thomsen@peelregion.ca	11 Peel Centre Drive, Brampton, ON	905-791-7800 x 4242			
Region of Peel	Gayle Gorman	Real Estate	gayle.gorman@peelregion.ca	10 Peel Centre Drive, Brampton, ON				
Region of Peel	ZZG Source Water	Risk Management Inspector, Infrastructure Planning, Growth and Water Resources - Public Works	zzg-sourcewater@peelregion.ca					
Region of Peel	Public Health	Main Point of Contact	ZZG-PeelHealthBuiltEnvironment@peelregion.ca				2020-06-12	
Region of Peel	Micheal Bennington	Built Environment, Analyst Research & Policy	Michael.Bennington@peelregion.ca	7120 Hurontario St. 7TH Mississauga, ON	+1 905-791-7800 x2014		2020-06-13	
Region of Peel	Sandra Fitzpatrick	Manager, Chronic Disease and Injury Prevention	Sandra.Fitzpatrick@peelregion.ca	7120 Hurontario St. 7TH Mississauga, ON	+1 905-791-7800 x2669		2020-06-14	
Region of Peel	Kathie Brown	Manager, Health Protection	Kathie.Brown@peelregion.ca	7120 Hurontario St. 8TH Mississauga, ON	905-791-7800 x2605		2020-06-15	
Region of Peel	Chris Despins	Climate Change (Adaptation) Advisor	christopher.despins@peelregion.ca	7120 Hurontario St., Mississauga, ON	(905) 791-7800 ext.		2020-09-15	
Region of Peel	Shahzeb Shaikh	Public Works – Transportation Progrm Planning	shahzeb.shaikh@peelregion.ca	10 Peel Centre Drive, Suite B, 4th Floor, Brampton, ON L6T 4B9	905-791-7800 x5218		2020-10-02	
Region of Peel	Matthew Aymar		matthew.aymar@peelregion.ca	10 Peel Centre Drive, Brampton, ON	+1 905-791-7800		2020-11-17	
					+1 905-791-7801			
Region of Peel	Sakshi Saini		sakshi.saini@peelregion.ca	10 Peel Centre Drive, Brampton, ON	+1 905-791-7802		2020-11-17	
Region of Peel	Kiran Ghai		kiran.ghai@peelregion.ca	10 Peel Centre Drive, Brampton, ON	+1 905-791-7803		2020-11-17	

Regional Road 50 Drainage Improvements Class EA
Technical Agency Stakeholder Contact List

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
~~Region of Peel~~	~~Jason Tran~~		~~jason.tran@peelregion.ca~~	~~10 Peel Centre Drive, Brampton, ON~~	~~+1 905-791-7804~~		~~44152~~	
Region of Peel	Franca Ursitti		franca.ursitti@peelregion.ca	10 Peel Centre Drive, Brampton, ON	+1 905-791-7805		2020-11-17	
Region of Peel	Anna Lee		anna.lee2@peelregion.ca	10 Peel Centre Drive, Brampton, ON	+1 905-791-7806		2020-11-17	
Region of Peel	Rohan Mohammadi		rojan.mohammadi@peelregion.ca		+1 905-791-7807		2020-12-03	
Region of Peel	Mohammad Hassan, P.Eng	Technical Analyst - Traffic Operations	mohammad.hassan@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7808		2020-12-09	
Region of Peel	Zia, Solmaz		<solmaz.zia@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7809		2022-08-29	
Region of Peel	Andrea Chan		<andrea.chan@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7810		2022-08-29	
Region of Peel	Sona Nezami	>	<sona.nezami@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7811		2022-08-29	
Region of Peel	Laura Borowiec		<laura.borowiec@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7812		2022-08-29	
Region of Peel	Sabrina Davidson		sabrina.davidson@caledon.ca	10 Peel Centre Drive, Brampton, ON	+1 905-791-7813		2022-08-29	
Region of Peel	Damian Jamroz		<Damian.Jamroz@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7814		2022-08-29	
Region of Peel	Rebecca Caughey		<Rebecca.Caughey@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7815		2022-08-29	
Region of Peel	Italia Ponce		<italia.ponce@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7816		2022-08-29	
Region of Peel	Zia Solmaz		Solmaz.Zia@peelregion.ca	10 Peel Centre Drive, Brampton, ON	+1 905-791-7817		2022-08-29	
Region of Peel	Dylan Prose		<dylan.prowse@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7818		2022-08-29	
The Town of Caledon	Ben Pressman	>	<Ben.Pressman@caledon.ca>	6311 Old Church Road Caledon, ON	+1 905-791-7819		2022-08-29	
Region of Peel	Hashimali Hamdani		<hashimali.hamdani@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7820		2022-08-29	
Region of Peel	Heather Crawford	>	<Heather.Crawford@peelregion.ca>>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7821		2022-08-29	
Region of Peel	Jennifer Lanthier		jennifer.lanthier@peelregion.ca	10 Peel Centre Drive, Brampton, ON	+1 905-791-7822		2022-08-29	
Region of Peel	Laura Borowiec		<laura.borowiec@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7823		2022-08-29	
Region of Peel	zzg-peelhealthbuiltenvironment@peelregion.ca		<zzg-peelhealthbuiltenvironment@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7824		2022-08-16	
Region of Peel	pwi@peelregion.ca	>	<pwi@peelregion.ca>	10 Peel Centre Drive, Brampton, ON	+1 905-791-7825		2022-08-17	
Region of Peel	Neal Smith		neal.smith@peelregion.ca	10 Peel Centre Drive, Brampton, ON	+1 905-791-7830		2020-12-03	
Region of Peel	Nancy Lotecki	Health Services	Nancy.Lotecki@peelregion.ca	7120 Hurontario St. 8TH Mississauga, ON	905-791-7800 x2556		2020-06-16	

Regional Road 50 Drainage Improvements Class EA
Technical Agency Stakeholder Contact List

Updated: 2022-11-08

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
Region of Peel PUCC	Susan De Jesus		Susan.DeJesus@peelregion.ca	10 Peel Centre Drive, Brampton, ON	905-791-7800 ext. 7898			
Peel Regional Police	Chris McCord	Interim Chief		7750 Hurontario Street, Brampton, ON L6V 3W6	905-453-3311			
Ontario Provincial Police	Jennifer Davey		Jennifer.davey@opp.ca				2020-06-26	
Region of Peel Ambulance Service	Peter Dundas	Director, Paramedic Services	peter.dundas@peelregion.ca	5299 Maingate Drive, Mississauga, ON L4W 1G6	905-791-7800 ext. 3924			
Caledon Fire & Emergency	Darryl Bailey	Fire Chief	fire@caledon.ca	6097 Old Church Road Caledon, ON	905-584-2272		2020-01-22	
~~Town of Caledon~~	~~Jackie McMillen~~	~~Administrative Assistant – Mayor and Town Council~~	~~jackie.mcmillen@caledon.ca~~	~~6311 Old Church Road Caledon, ON~~	~~905-584-2272 x4156~~	***NO LONGER WITH TOWN***		2020-01-22
Town of Caledon	Ashley Parks	Administrative Assistant - Mayor and Town Council	ashley.parks@caledon.ca	6311 Old Church Road Caledon, ON	905-584-2272 x4007		2020-01-22	
Town of Caledon	General Que Line	Administrative Assistant - Mayor and Town Council	mayor@caledon.ca	6311 Old Church Road Caledon, ON	905-584-2272 x5130		2020-01-22	
Town of Caledon	Fuwing Wong	General Manager, Finance and Infrastructure Services / Chief Financial Officer	fuwing.wong@caledon.ca	6311 Old Church Road Caledon, ON	905.584.2272 x4257		2020-01-22	
Town of Caledon	Ryan Grodecki	Manager of Engineering	Ryan.Grodecki@caledon.ca	6311 Old Church Road Caledon, ON	905.584.2272 x4101			
Town of Caledon	Carey Herd	Acting CAO & Director of Administration/Town Clerk	carey.herd@caledon.ca	6311 Old Church Road Caledon, ON	905.584.2272 x4218	***New last name "Herd." Formerly Carey DeGorter. Formerly Director of Administration/Town Clerk and now also Acting CAO.***	2020-01-22	
~~Town of Caledon~~	~~Steve Dollmaier~~	~~Superintendent, Finance & Infrastructure Services~~	~~Steven.Dollmaier@caledon.ca~~	~~6311 Old Church Road Caledon, ON~~	~~905-857-1436~~	***NO LONGER WITH TOWN***		2020-01-22
Town of Caledon	Multiple Positions spilt between different people. Contact Danita Taccogna below.	Superintendent, Finance & Infrastructure Services				***Multiple Positions spilt between***	2020-01-22	
~~Town of Caledon~~	~~Tim Manley~~	~~Senior Policy Planner~~	~~tim.manley@caledon.ca~~	~~6311 Old Church Road Caledon, ON~~	~~905-584-2272 ext. 4285~~	***NO LONGER WITH TOWN***		2020-01-22

Regional Road 50 Drainage Improvements Class EA
Technical Agency Stakeholder Contact List

Updated: 2022-11-08

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
Town of Caledon	Rob Hughes	Senior Policy Planner	rob.hughes@caledon.ca	6311 Old Church Road Caledon, ON	905-584-2272 x4246		2020-01-22	
Town of Caledon	Casey Blakely	Senior Policy Planner	casey.blakely@caledon.ca	6311 Old Church Road Caledon, ON	905-584-2272 x4202		2020-01-22	
Town of Caledon	Kant Chawla	Senior Transportation Planner, Development Approval and Planning Policy Department	kant.chawla@caledon.ca	6311 Old Church Road Caledon, ON	905-584-2272 ext. 4293			
~~Town of Caledon~~	~~Eric Chan~~	~~Manager, Transportation Engineering, Fiance and Infrastructure Services~~	~~eric.chan@caledon.ca~~	~~6311 Old Church Road Caledon, ON~~	~~905-584-2272 ext. 4076~~	***NO LONGER WITH TOWN***		2020-01-22
Town of Caledon	Arash Olia	Interim Manager of Transportation Engineering	arash.olia@caledon.ca	6311 Old Church Road Caledon, ON	905-584-2272 x 4073		2020-01-22	
Town of Caledon	Danita Taccogna	Engineering Department	danita.taccogna@caledon.ca	6311 Old Church Road Caledon, ON	905-584-2272 ext. 4226		2020-01-22	
~~Town of Caledon~~	~~Haiqing Xu~~	~~Policy Manager~~	~~haiqing.xu@caledon.ca~~	~~6311 Old Church Road Caledon, ON~~	~~905-584-2272 ext. 4172~~	***NO LONGER WITH TOWN***		2020-01-22
~~Town of Caledon~~	~~Ian Todhunter~~	~~Policy Manager~~	~~ian.todhunter@caledon.ca~~	~~6311 Old Church Road Caledon, ON~~	~~905-584-2272 x4065~~		~~43852~~	
~~Town of Caledon~~	~~Geoff Hebbert~~	~~Senior Development Engineering Coordinator~~	~~geoff.hebbert@caledon.ca~~	~~6311 Old Church Road Caledon, ON~~	~~905-584-2272 ext. 4258~~	***NO LONGER WITH TOWN***		2020-01-22
~~Town of Caledon~~		~~Senior Development Engineering Coordinator~~		~~6311 Old Church Road Caledon, ON~~		~~***POSITION CURRENTLY UNFILLE***~~	~~2020-01-22~~	
Town of Caledon	Arash Olia	Iterim Manager, Transportation Engineering, Finance & Infrastructure Services	arash.olia@caledon.ca	6312 Old Church Road Caledon, ON	905-584-2272 x 4073			
~~Town of Caledon~~		~~Energy & Environmental Coordinator~~		~~6311 Old Church Road Caledon, ON~~	~~905-584-2272 4167~~	***POSITION NO LONGER EXISTS***		2020-01-22
Town of Caledon	Katelyn McFadyen	Manager of Energy and Environment	katelyn.mcfadyen@caledon.ca	6311 Old Church Road Caledon, ON	905-584-2272 x4169	[redacted]	2020-01-22	
Town of Caledon	Cristina Guido	Manager of Energy and Environment	cristina.guido@caledon.ca	6311 Old Church Road Caledon, ON	905-584-2272 x4068	[redacted]	2020-01-22	
Town of Caledon, Heritage Resoures Office	Douglas McGlynn	Heritage Urban Design Planner	douglas.mcglynn@caledon.ca		905.584.2272 x. 4232			
Town Of Caledon	Jay Menary	Technologist, Development Engineering					2020-12-02	
Town of Caledon	Margi Sheth		margi.sheth@caledon.ca				2020-11-17	
Town of Caledon	Cassie Schembri	Senior Project Manager, Stormwater, Engineering Services Department	Cassie.Schembri@caledon.ca	6311 Old Church Road, Caledon, ON L7C 1J6	Cell: 647.327.0060 Office: 905.584.2272		2020-12-08	
Town of Caledon	Cassie Schembri	Senior Project Manager, Stormwater, Engineering Services Department	Cassie.Schembri@caledon.ca	6311 Old Church Road, Caledon, ON L7C 1J6	Cell: 647.327.0060 Office: 905.584.2272		2020-12-08	
Town of Caledon	Shun Cheung		shun.cheung@caledon.ca,				2021-11-03	

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
Town of Caledon - Heritage Committee	Sally Drummond	Heritage Resource Officer	sally.drummond@caledon.ca	6311 Old Church Road Caledon, ON	905.584.2272 x4243		2020-12-02	
School Boards								
Peel District School Board	Stan Cameron	Trustee - Caledon	stan.cameron@peelsb.com	5650 Hurontario Street Mississauga, ON				
Peel District School Board	Suzanne Blakeman	Manager, Planning & Enrolement / Planning & Accomendation Support Services	suzanne.blakeman@peelsb.com	5650 Hurontario Street Mississauga, ON	905-890-1010 ext. 2216			
~~Peel District School Board~~	~~Bianca MV Bielski~~	~~Manager, Planning & Enrolement~~	~~bianca.bielski@peelsb.com~~	~~5650 Hurontario Street, Mississauga, ON L5R 1C6~~	~~905-890-1010 ext. 2221~~			2020-06-26
Dufferin-Peel Catholic District School Board	Frank Di Cosola	Trustee - Caledon/Dufferin	frank.dicosola@dpcdsb.org	40 Matheson Boulevard West Mississauga, ON				
Dufferin-Peel Catholic District School Board	Krystina Koops	Planner	krystina.koops@dpcdsb.org	40 Matheson Boulevard West Mississauga, ON				
Conservation Authority								
Toronto and Region Conservation Authority (TRCA)	Jairo Morelli		jairo.morelli@trca.ca		416-661-6600			
Toronto and Region Conservation Authority (TRCA)	Caroline Mugo	Planner, Infrastructure, Planning & Permits	caroline.mugo@trca.ca		416-661-6600			
~~Toronto and Region Conservation Authority (TRCA)~~	~~Harsha Gammanpila~~		~~harsha.gammanpila@trca.ca~~		~~x5629~~		2020-11-17	2020-11-30
Toronto and Region Conservation Authority (TRCA)	Emma Benko		emma.benko@trca.ca				2020-11-30	

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
Toronto and Region Conservation Authority (TRCA)								
Utilities								
TransCanada Pipelines Inc.	Darlene Quilty	Project & Planning Coordinator	dquilty@mhbcplan.com	86 Healey Road, Bolton ON L7E 5A7	T: 7057280045x243 C:7056272302			
Hydro One Networks Inc.			SecondaryLandUse@HydroOne.com				2020-06-25	
~~Hydro One Networks Inc.~~	~~Renee Pettigrew~~	~~Senior Manager of Environmental Programs and Approvals~~	~~Renee.Pettigrew@HydroOne.com~~			***Asked that correspondence be forwarded to the Government Review Team Secondary Land Use mailbox (above)***		2020-06-25
Hydro One Networks Inc.	Amy Eveland	Lines Customer Support Clerk, Distribution Work Management, WO1	Amy.EVELAND@HydroOne.com	PO Box 20029, Woodstock, ON | N4S 8X8	519.537.7172 x 2250		2020-07-07	
Hydro One Networks			secondarylanduse@hydroone.com	483 Bay Street, North Tower, 15th Floor Toronto, ON				
Hydro One Networks	Matt Casey		matthew.casey@hydroone.com		519-939-8729	***On 6/26/2020 Indicated no proposed work in area***		
Hydro One Networks	SouthernFBCPlanning Mailbox		SouthernFBCPlanning@hydroone.com			***As per email from Matt Casey***	2020-06-26	

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
Hydro One Caledon		Planning and Scheduling Department	westcentralzonescheduling@HydroOne.com OR Zone2Scheduling@HydroOne.com	185 Clegg Rd, Markham, ON L6G 1B7 or 40 Olympic Drive, Dundas, ON L9H 7P5	905-627-6050	***Unable to provide mark up for Underground Services. Direct Contact: Chris.Marlin@HydroOne.com; Spencer.Bureau@HydroOne.com 2020/09/09: From Spencer 'I was able to review the provided CAD drawing. I am able to confirm that the H1 poles shown in the drawing are in the proper location. We have not done much if any work in the area over the last year. I don't anticipate any major changes or relocations within the scope in the near future.*** ***Primary and secondary underground services do exist along this section of the road. I am unable to provide any detailed location of the cables. Underground locates will be required to determine the routing of underground plant.'***		
Hydro One Caledon	Spencer Bureau		Spencer.Bureau@HydroOne.com					
Hydro One Caledon	Chris Marlin		Chris.Marlin@HydroOne.com			***CCd on Email from Spencer Bureau to Hank Xue and Andrew McGregor***		
Hydro One Caledon			tpumarkup@hydroOne.com	185 Clegg Rd Markham, ON L6G 1B7				
Hydro One Telecom	Ian Mitchell	EA Coordinator	ian.mitchell@hydroone.com	65 Kelfield Street Rexdale, ON M9W 5A3	416-240-6701			

Regional Road 50 Drainage Improvements Class EA
Technical Agency Stakeholder Contact List

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Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
Hydro One Telecom	Faisal Khan	Operations Services	faisal.khan@hydroone.com	65 Kelfield Street Rexdale, ON M9W 5A3	416-240-6805	***Drawing of fiber cable infrastructure southwest side of parr Blvd and Highway 50 sent 2020/07/10: Hydro One Telecom has aerial fiber overlash on Alectra Utilities Hydro Poles as shown below. Please find the attached underground infrastructure drawing in project area.***	2020-06-26	
Hydro One Telecom		PUCC Coordinator	hotosp@hydroone.com	65 Kelfield Street Rexdale, ON M9W 5A3				
Bell Canada	Ahmed Saeed	Bell Implementation Mgr. Bolton Territory	ahmed.saeed2@bell.ca	21 First Ave Orangeville Ontario L9W 1H7			2020-06-26	
~~Bell Canada~~	~~Frank Brown~~	~~Bell Implementation Mgr.~~	~~franklin.brown@bell.ca~~	~~21 First Ave Orangeville Ontario L9W 1H7~~	~~519-939-1011~~	***Outside of territory***		2020-06-26
Bell Canada	Diego Tobias	GT Fiber Services Inc.	PUCC.circulations.GT@bell.ca	5025 Creekbank Road Mississauga, ON L4W 0B6	905-614-6820			
Bell Canada Municipal Operations Centre	Diana Velez	c/o Netricom	bell.moc@telecon.ca	200 Town Centre Bvd, Suite 300 Markham, ON L3R 8G5	905-470-2112 ext. 40309	***bell.moc@netricom.com - return to sender 2020/07/06: Markup provided in PDF and CAD files***		
Cogeco Cable Systems Inc.	Craig Krueger	System Planner	cdkrueger@cogeco.ca			***No response yet, latest follow up email sent on Nov 19, 2020***		
Rogers	Roy Holland		Roy.Holland@rci.rogers.com			***2020/08/04: Markup provided in PDF***		
Rogers Cable TV Limited	Marian Wright	Planning Coordinator	marian.wright@rci.rogers.com	3573 Wolfdale Road Mississauga, ON	647-771-9327			
Rogers Cable	Richard Humpage	EA Coordinator - Region Representative East of Centreville Creek Road	richard.humpage@rci.rogers.com	244 Newkirk Road, Richmond Hill, ON L4C 3S5	905-780-7014			
Rogers Cable	Nejadtaghi, Roya	CAD Technician, Engineering - Central Canada	<Roya.Nejadtaghi@Telecon.ca>	7777 Weston Rd, Woodbridge (Ontario) L4L 0G9	289-657-8020			
Rogers Cable			GTAW.Markups@rci.rogers.com	3573 Wolfdale Road Mississauga, ON		***Rogers.MOC@telecon.ca***		
Enbridge Gas Distribution Incorporated	Emilio Labra	Advisor Planning – Central Region West	Emilio.labra@enbridge.com	500 Consumers Road North York, ON	905-458-3811			
Enbridge Gas Distribution Incorporated	Meetpal Chhina	Planning Technical Specialist	meetpal.chhina@enbridge.com	6 Colony Court, Brampton ON L6T 4E4	905-458-2159 905-867-9329			
Enbridge Gas Distribution Incorporated			markups@enbridge.com			***2020/07/09: Markup provided in PDF. Note' The information provided is for General Location Only. You must resubmit your detailed design for our review.'***		
~~Alectra~~	~~Paul Sidhu~~	~~Senior Manager, Systems Planning~~	~~paul.sidhu@alectrautilities.com~~	~~3240 Mavis Road Mississauga, ON~~	~~905-566-2738~~	***Paul works in Mississauga***		2020-07-07

Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
Student Transportation of Peel Region	Marcy Macina	Operations Officer, East Area	marcy.macina@dpcdsb.org	Keaton Centre, 5685 Keaton Crescent Mississauga, ON L5R 3H5	905-890-6000			
MTS Allstream	Ian Fleming	EA Coordinator	utility.circulations@zayo.com	50 Worcester Road Toronto, ON M9W 5X2	416-345-3406	***2020/07/28: Zayo has no existing plant in the area indicated in your submission.***		
Group Telecom	Telecon	Mary Tina	Gt.Moc@telecon.ca	7777 Weston Road, Woodbridge, ON L4L 0G9	289-657-8072	***2020/07/22: Our records show no existing and / or proposed underground plant within 2m of your proposed installation***		
Indigenous Groups								
~~Metis Nation of Ontario~~	~~Linda Norheim~~	~~Director, Lands, Resources and Consultations~~	~~lindan@metisnation.org~~	~~75 Sherbourne St. Suite 311 Toronto, ON M5A 2P9~~	~~(416) 977-9881~~	~~Stage 1 Archeological Assessment emailed August 10, 2020~~		~~2022-08-15~~
Metis Nation of Ontario			consultations@metisnation.org	Métis Consultation Unit Métis Nation of Ontario Head Office Suite 1100 – 66 Slater Street Ottawa, ON K1P 5H1	613-798-1488	***Stage 1 Archeological Assessment emailed August 10, 2020***		
~~Mississaugas of the New Credit First Nation~~	~~Fawn Sault~~	~~Consultation Manager~~	~~Fawn.Sault@mncfn.ca~~	~~Mississauga of the New Credit First Nation 2789 Mississauga Road R.R. #6 Hagersville, Ontario N0A 1H0~~	~~(905)768-1133~~	~~Stage 1 Archeological Assessment emailed August 10, 2020~~		~~2022-08-15~~
Mississaugas of the New Credit First Nation		Department of Consultation & Accommodation	doca@mncfn.ca			***Stage 1 Archeological Assessment emailed August 10, 2020***		
Mississaugas of the New Credit First Nation	Megan DeVries	Archaeological Operations Supervisor Department of Consultation and Accommodation (DOCA)	Megan.DeVries@mncfn.ca	4065 Highway 6 North, Hagersville, ON N0A 1H0	P: 905-768-4260 | M: 289-527-2763	***Stage 1 Archeological Assessment emailed August 10, 2020***		
Mississaugas of the New Credit First Nation	Adrian Blake, M.S.	Field Archaeologist	Adrian.Blake@mncfn.ca	4065 Highway 6 North, Hagersville, ON N0A 1H0	M: 905-979-3862		2020-10-28	
Six Nations of the Grand River	Lonny Bomberry	Lands & Resource Director	markhill@sixnations.ca	Six Nations of the Grand River Consultation and Accommodations Team 2498 Chiefswood Rd. P.O. Box 5000 Ohsweken, ON N0A 1M0		***Stage 1 Archeological Assessment emailed August 10, 2020***		

Regional Road 50 Drainage Improvements Class EA
Technical Agency Stakeholder Contact List

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Agency	Contact	Title	Email	Address	Phone	Notes	Date Added to List	Removed from List
Haudenosaunee Confederacy Chiefs Council			[redacted]	Haudenosaunee Development Institute 16 Sunrise Court – Suite 600 P.O. Box 714 Ohsweken, Ontario N0A 1M0		***Stage 1 Archeological Assessment emailed August 10, 2020 incorrect email***		
Huron-Wendat Nation			administration@cnhw.qc.ca	Nation Huronne-Wendat 255, place Chef Michel Laveau Wendake (Québec) G0A 4V0 Canada		***Stage 1 Archeological Assessment emailed August 10, 2020***		
Huron-Wendat Nation	Maxime Picard	Coordinateur de projets - Ontario	maxime.picard@cnhw.qc.ca	Nation Huronne-Wendat 255, place Chef Michel Laveau Wendake (Québec) G0A 4V0 Canada	418-843-3767 x2105	***Stage 1 Archeological Assessment emailed August 10, 2020***		
Elected Officials								
Ontario Government	Sylvia Jones	MPP - Dufferin Caledon	sylvia.jonesco@pc.ola.org	180 Broadway, 3rd Floor, Suite A, Organville ON L9W 1K3	519-941-7751			
Federal Government	Kyle Seeback	MP - Dufferin Caledon	kyle.seeback@parl.gc.ca	229 Broadway, Unit #2, Orangville ON L9W 1K4				
Town of Caledon	Allan Thompson	Mayor	allan.thompson@caledon.ca	6311 Old Church Road Caledon, ON	416-319-6543			
Town of Caledon	Annette Groves	Ward 5 Regional Councillor	annette.groves@caledon.ca	6311 Old Church Road Caledon, ON	416-434-3256			
Town of Caledon	Tony Rosa	Ward 5 Area Councillor	tony.rosa@caledon.ca	6311 Old Church Road Caledon, ON	416-523-1348			
Town of Caledon	Lalita Nott	Administrative Assistant - Mayor and Town Council	lalita.nott@caledon.ca	6311 Old Church Road Caledon, ON				
Town of Caledon	Valorie Mathers	Administrative Assistant - Mayor and Town Council	valorie.mathers@caledon.ca	6311 Old Church Road Caledon, ON	905-584-2272 ext. 4156		2020-06-26	
~~Town of Caledon~~	~~Jackie Groves~~	~~Administrative Assistant – Mayor and Town Council~~	~~jackie.groves@caledon.ca~~	~~6311 Old Church Road Caledon, ON~~	~~905-584-2272 ext. 4156~~			2020-06-26
Other								
Caledon Cycling Club			caledoncyclingclub@gmail.com					

APPENDIX 1 – 3

Public Information Centre Display Materials

APPENDIX 1 – 3

Information Package 1



Environmental Assessment (Schedule B) and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield Road to Healey Road

Region of Peel
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Problem / Opportunity Statement



This EA study was initiated to review opportunities within the study area to address drainage improvements along Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon.

The entrance culverts and drainage ditches are in poor condition and require improvement and upgrading.

To address this, the study will consider:

- Best Industry Practices
- Climate Change Requirements
- Existing and Future Regulatory Requirements
- Active Transportation Improvements (i.e. pedestrian and cycling amenities)

In developing recommendations, all reasonable alternatives will be considered to minimize impact to adjacent businesses and the surrounding environment.

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Highway 50 (Regional Road) Study Area

In 2017, the Region of Peel (Region) completed a condition assessment for entrance culverts on both sides of the road. It was determined that 17 entrance culverts have reached the end of service life.

The purpose of this project is to carry out the planning process to improve existing drainage and stormwater management features in the study area to efficiently service existing and future growth along the corridor.

As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's *Sustainable Transportation Strategy*.

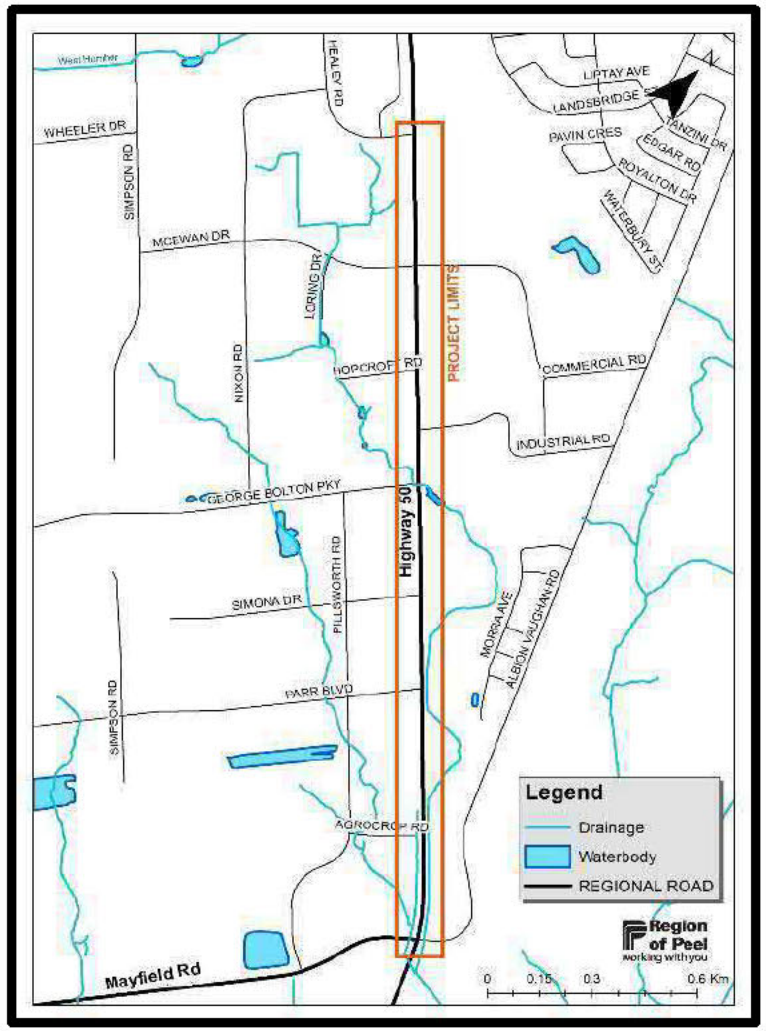


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Map of Study Area

The study area consists of approximately 2.5 kilometres along Highway 50 (Regional Road) from Mayfield Road to Healey Road, in the Town of Caledon.



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Study Area Catchment (Watershed)

A watershed describes all the upstream areas that contribute water to a specified point along a watercourse.

The area is highly altered and degraded. Drainage improvement alternatives that can mitigate erosion risks and enhance natural geomorphic processes will be considered.



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Study Area Catchment (Watershed)



The study area is within the Rainbow Creek subwatershed of the larger Humber River watershed under the jurisdiction of the Toronto and Region Conservation Authority (TRCA).

The subwatershed is drained by Rainbow Creek and Robinson Creek, which merge north of Highway 7 to form Plunkett Creek.

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Stormwater Management (SWM)

Best Management Practices (BMPs) are methods applied to stop or decrease the harmful impacts of land use development and activities on the environment.

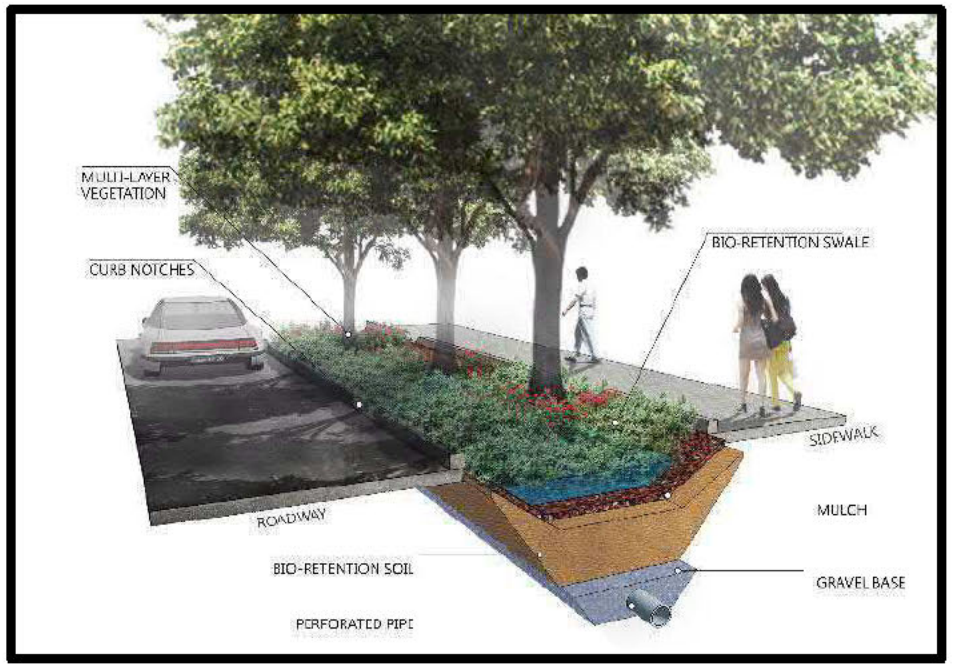
Low Impact Development (LID) is a SWM strategy that seeks to mitigate the impacts of increased water runoff and stormwater pollution. Three areas are addressed: production; removal; and delivery.

LID techniques can effectively remove nutrients, pathogens, and metals from stormwater, and they reduce the volume and intensity of stormwater flows.

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Stormwater Management (SWM)



Conceptual illustration only, subject to change

LID options under consideration:

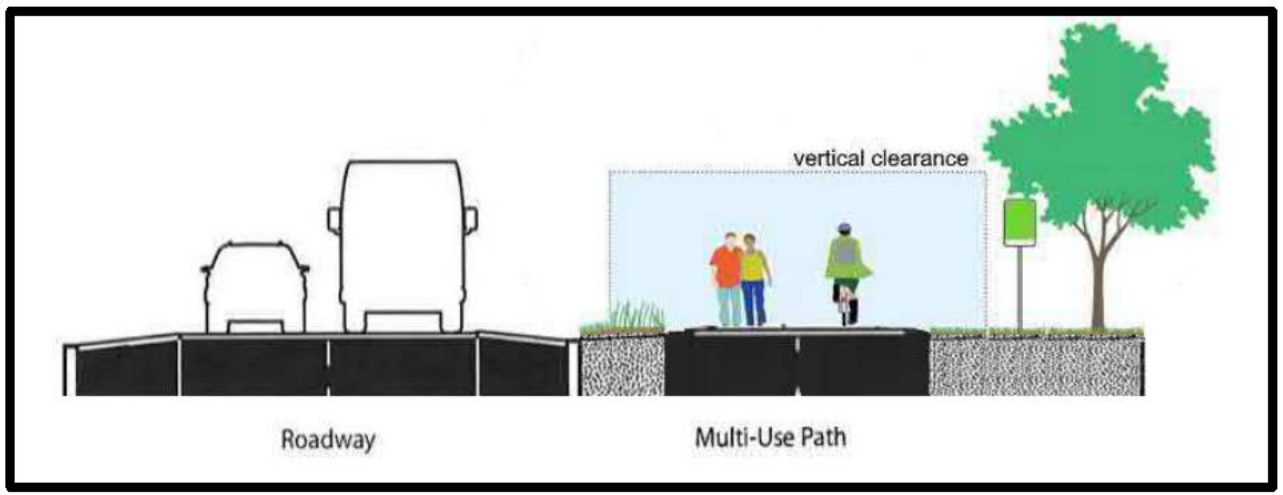
- Infiltration chambers to achieve water balance;
- Oil-grit separators to provide quality controls;
- Swale enhancements to promote infiltration; and
- Storage pipes with orifice control to achieve post- to pre-development release rates.

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Active Transportation Environment

This area has been designated by the Region as a pedestrian improvement corridor. The study will explore the addition of multi-use path or a cycle track per the Region's *Sustainable Transportation Strategy (STS)* to address long term active transportation requirements.



Conceptual illustration only, subject to change



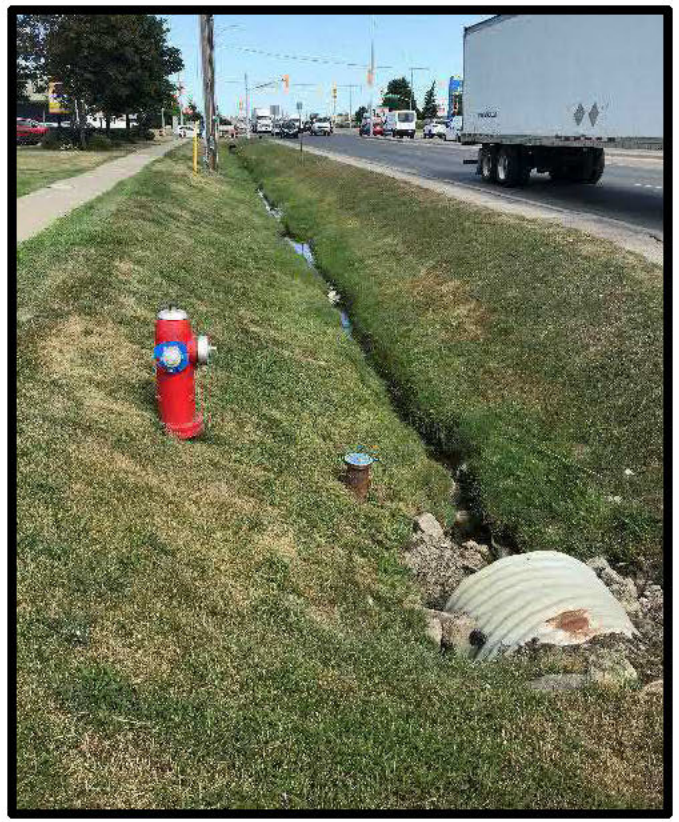
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working with you

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Municipal Class Environmental Assessment (EA)

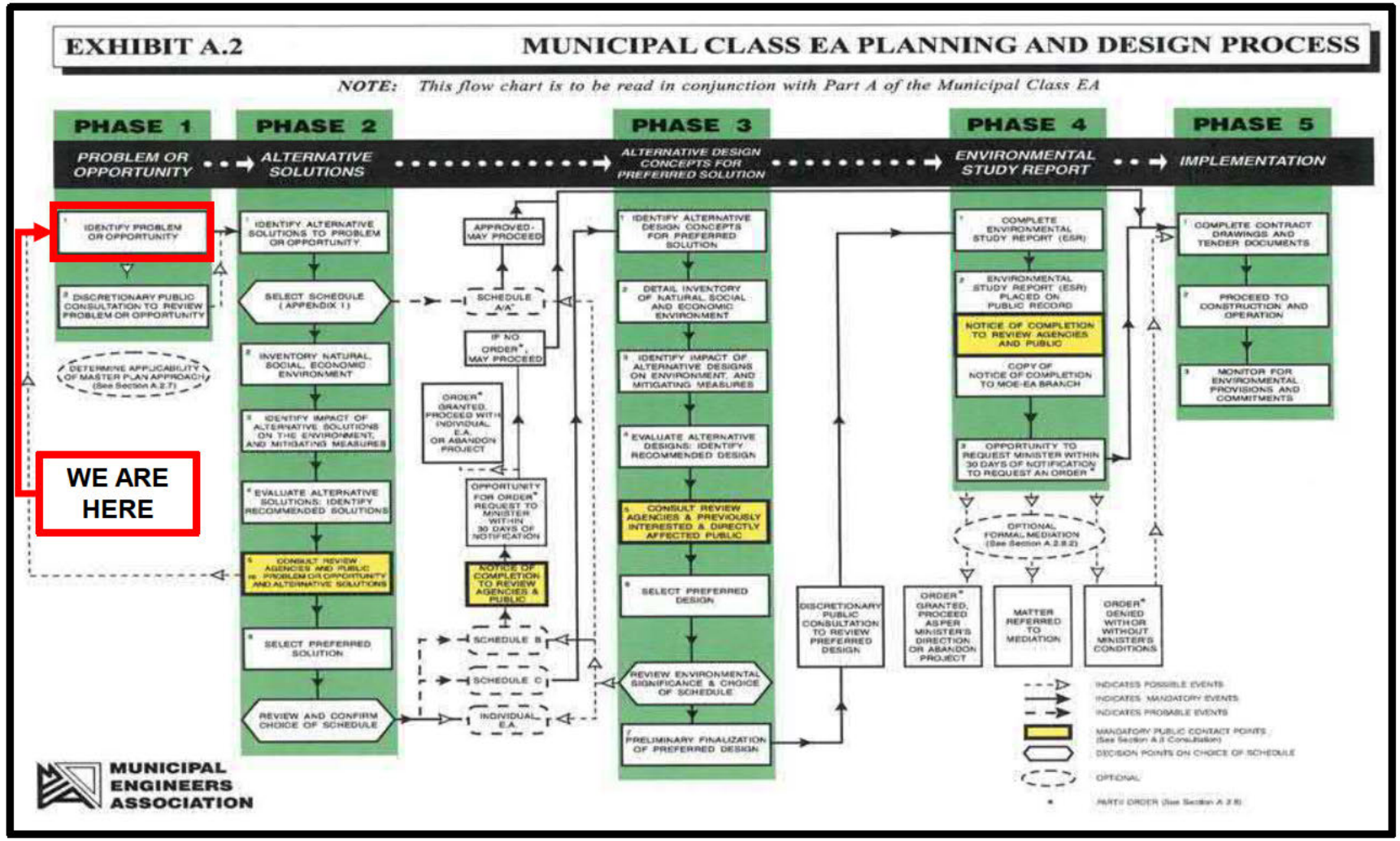
The study follows the Municipal Class EA formal framework undertaken for planning of municipal infrastructure projects to meet the requirements of the *EA Act.*

The project is being completed as a Schedule "B" project in accordance with the *Municipal Class Environmental Assessment (October 2000, amended in 2007, 2011 & 2015) and is subject to Phase 1, Phase 2 and Phase 5*.



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Other Studies Underway

Review of existing and future conditions, developing and evaluating alternatives to determine the preferred solution takes into consideration various environmental factors. Studies in these areas are underway and will be made available to the public upon completion.

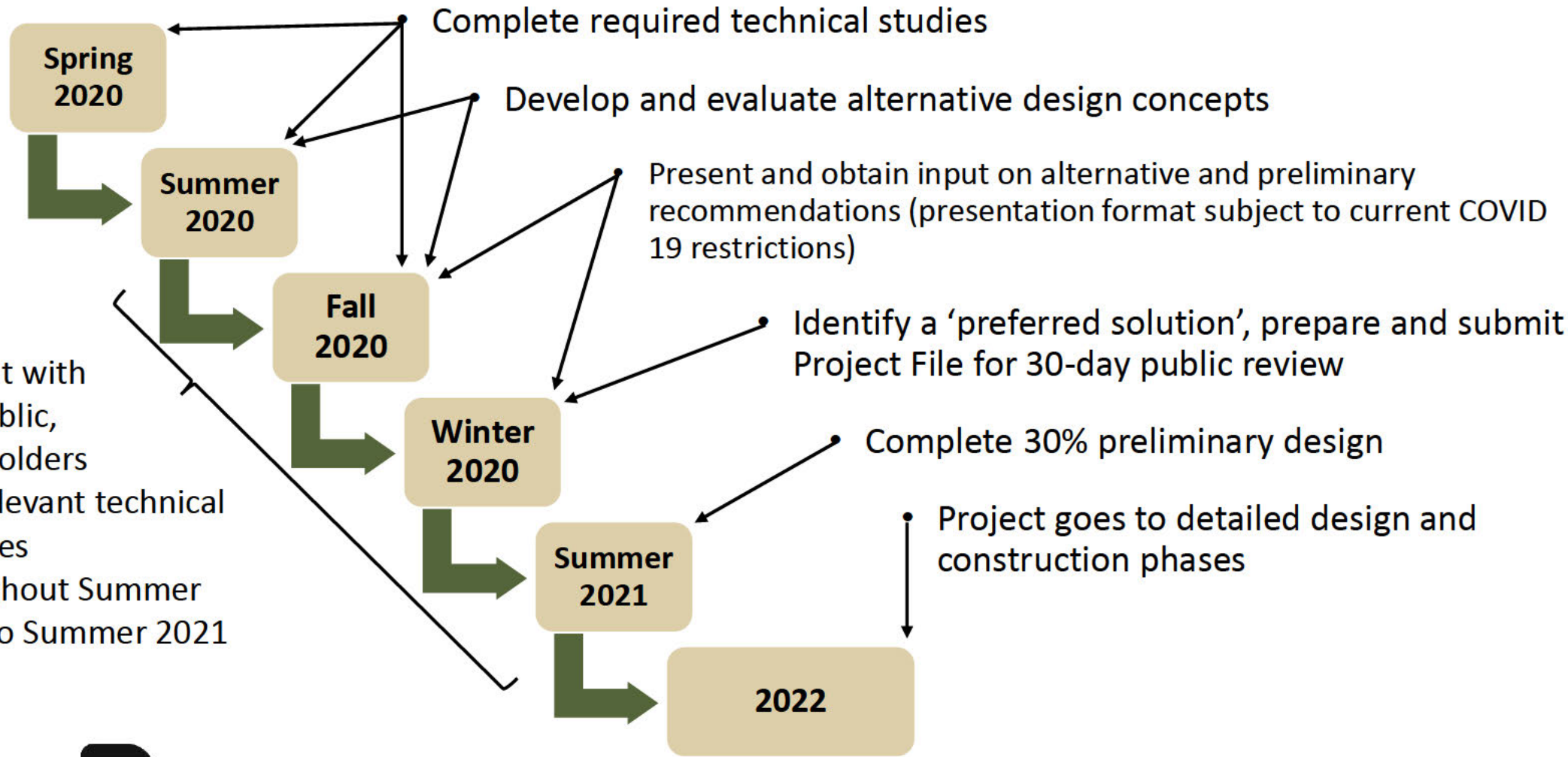
- Natural Heritage Assessment
- Archaeological Assessment and Cultural Heritage Assessment
- Geotechnical, Hydrological and Stage 1 Environmental Investigations
- Fluvial Geomorphic and Hydraulic Assessment
- Topographic Survey and Base Plan
- Transportation & Traffic Impact Assessment



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What Are The Next Steps?



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APPENDIX 1 – 3

Public Information Centre 1

MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

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ENVIRONMENTAL ASSESSMENT AND PRELIMINARY DESIGN FOR DRAINAGE IMPROVEMENTS OF HIGHWAY 50 FROM MAYFIELD ROAD TO HEALEY ROAD

ONLINE PUBLIC INFORMATION PACKAGE

Please review the materials and provide your input by submitting comments forms or questions directly to the project team.

This information is being provided to present and obtain input on:

- Local Issues and Constraints Affecting the Project
- Study Problem and Opportunity Statement
- Alternative and Recommended Solution(s)
- Next Steps In the Project

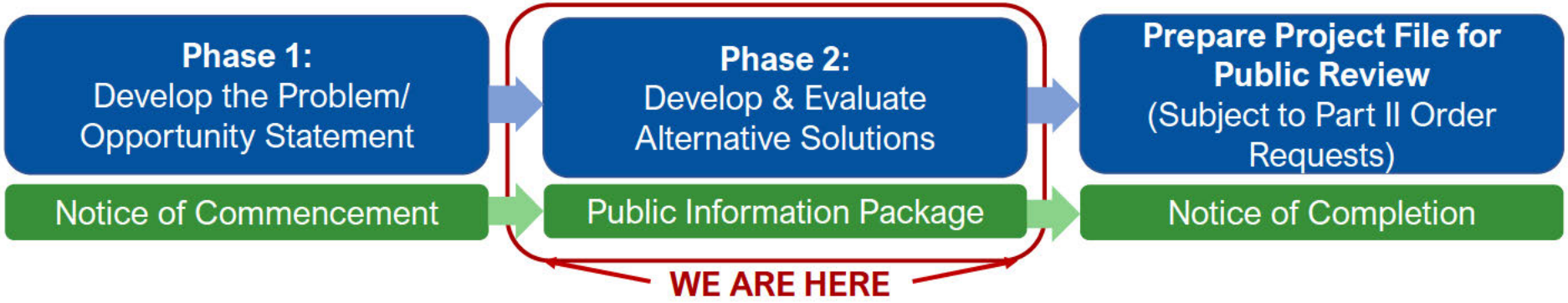


Following this public consultation, the recommended solution for Stormwater Management (SWM) and Active Transportation (AT) will be confirmed in consideration of comments received. We want your input!

MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT (EA)

The Municipal Class EA (MCEA) formal framework guides planning of municipal infrastructure (**road, water, wastewater and transit**) projects.

- Ensures all **reasonable alternatives** are considered to recommend a solution with **minimal impact** on the natural, cultural heritage, social and economic **environments**.
- **Input** from the **public**, **stakeholders** and **technical agencies** is essential.



The project is being completed as a **Schedule "B"** project in accordance with the MCEA (October 2000, amended in 2007, 2011 & 2015) and is subject to **Phase 1** and **Phase 2**.

PROBLEM / OPPORTUNITY STATEMENT



This EA study was initiated to address drainage improvements and upgrades required for failing culverts along Regional Road Highway 50 (RR50).

The study is considering:

- Best Management Practices
- Climate Change Requirements
- Existing and Future Regulatory Requirements
- Active Transportation Improvements (e.g., pedestrian and cycling amenities)

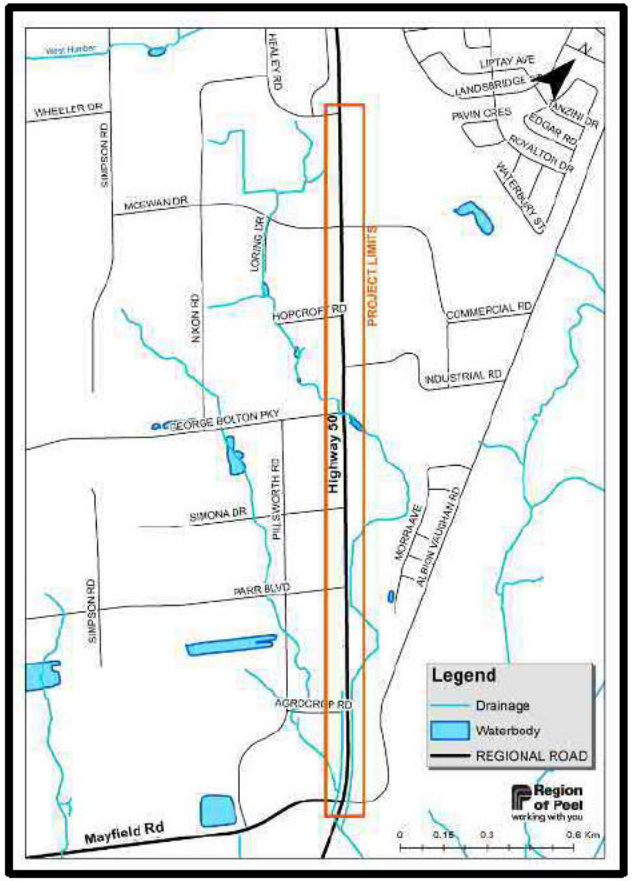
All reasonable alternatives are evaluated with recommendations made to minimize impact to adjacent businesses and the surrounding environment.

HIGHWAY 50 STUDY AREA

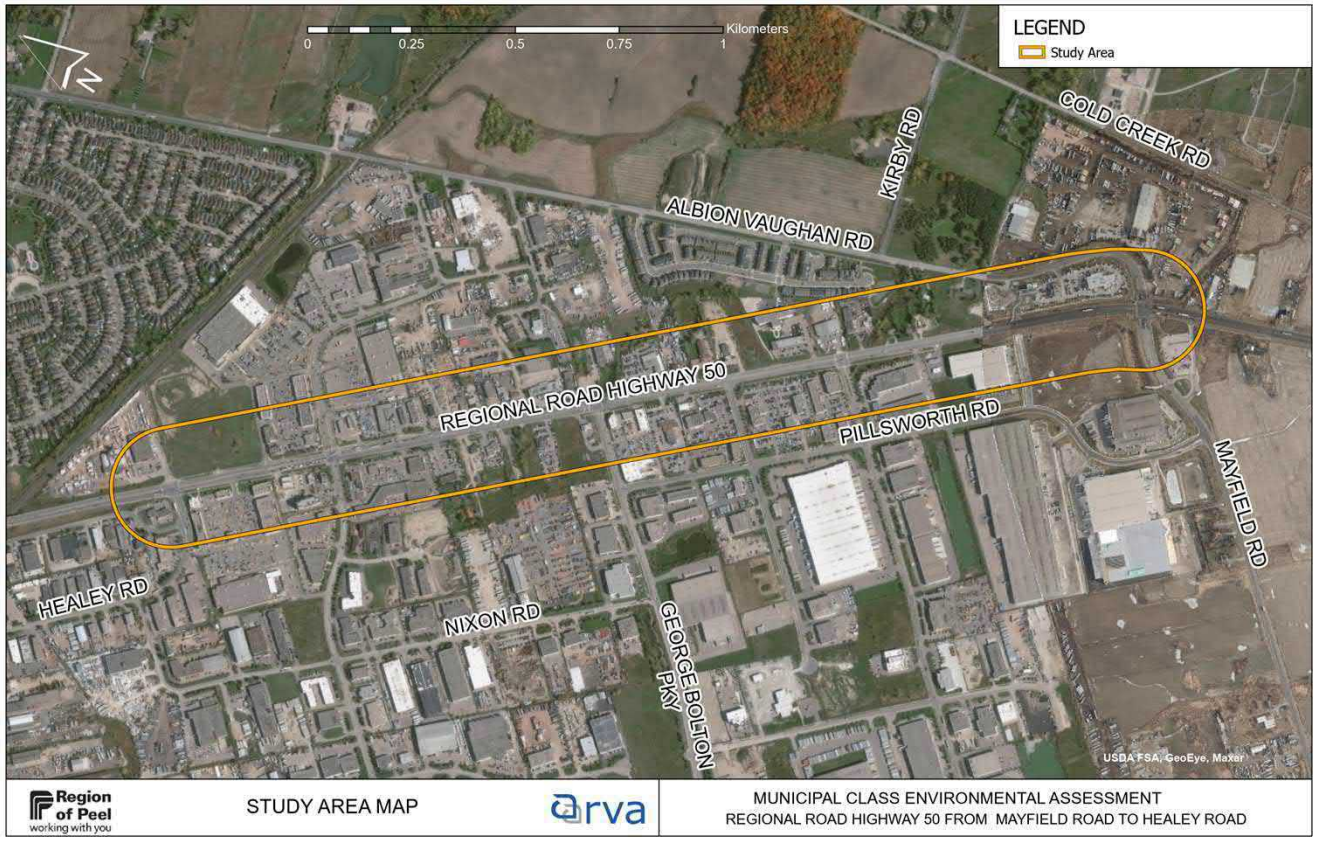
This project is required to improve existing drainage and stormwater management features.

- Condition assessment for entrance culverts completed in 2017.
- 17 entrance culverts have reached end of service life.
- Considerations are to efficiently service existing and future growth along the corridor, and to mitigate impacts from climate change.

In consideration of the Region's 'Sustainable Transportation Strategy' (STS), options to improve pedestrian and cyclist amenities are included.



HIGHWAY 50 STUDY AREA MAP



The study area consists of approximately 2.5 kilometres along RR50 from Mayfield Road to Healey Road in the Town of Caledon.

STUDY AREA CATCHMENT (WATERSHED)



- Watersheds describe any upstream areas contributing water to a specified point along a watercourse.
- The highly degraded study area, under Toronto and Region Conservation Authority (TRCA) jurisdiction, is within the Humber River watershed and Rainbow Creek subwatershed.
- The subwatershed is drained by Rainbow Creek and Robinson Creek, which merge north of Highway 7.
- Generally, drainage improvement alternatives are considered to mitigate erosion risks and enhance natural geomorphic processes.



EVALUATION OF ALTERNATIVE SOLUTIONS

Alternative solutions for **Stormwater Management (SWM)** and **Active Transportation (AT)** were comparatively evaluated using criteria that represent the broad definition of the environment (from *EA Act*)

Criteria		Description
	**Technical**	Are the technical requirements of the project addressed (Water Quantity, Water Quality, Drainage and Erosion Control Measures)?
	**Traffic Operations Safety**	Are the existing and future pedestrian and cycling traffic needs served (AT)?
	**Social**	What are the impacts on the local community (e.g., land use compatibility, local businesses, property requirements, access restrictions, etc.)?
	**Natural Environment**	Are existing terrestrial and aquatic habitat affected (wildlife, fisheries and vegetation)? Are climate change impacts addressed?
	**Archeological & Cultural Heritage**	Are cultural heritage resources, archeological resources or First Nations communities affected?
	**Cost**	What are the costs (capital cost, utility relocations, property acquisitions, etc.)? What are the operation and maintenance cost impacts?

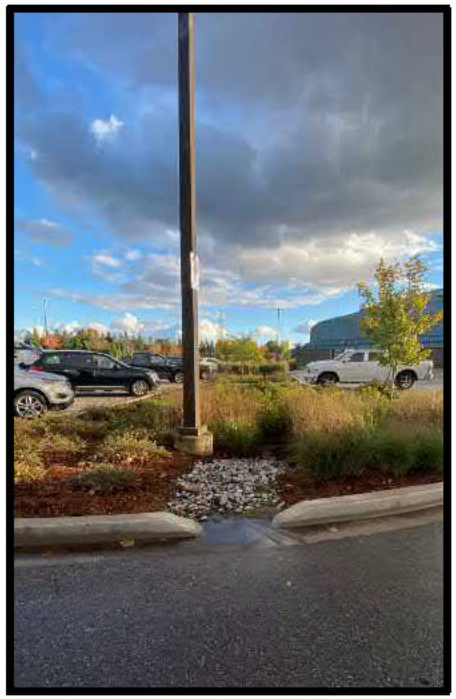
STORMWATER MANAGEMENT (SWM)

- **Best Management Practices (BMPs)** are methods applied to decrease the harmful impacts of land use development and activities on the environment.

- ***Low Impact Development*** **(LID)** practices are typically applied to meet stormwater management targets for water quality, geomorphic (erosion management) and water budget objectives.

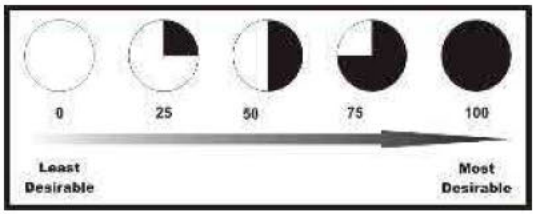
- LID techniques achieve a **"treatment train"** approach by reducing flow volume, decreasing runoff intensity, as well as removing nutrients, pathogens, and metals from stormwater on its path to the receiver.

- LID BMPs are designed with considerations for **sustainability and maintenance** requirements.



EVALUATION OF ALTERNATIVES – STORMWATER MANAGEMENT

Alternative 2 – Culvert Replacements/Upgrades (Full Replacement), **Alternative 4** - Bioretention Facilities, **Alternative 6** – Oil Grit Separator Units, **Alternative 8** – Infiltration Trenches, and **Alternative 10** – Catchbasin Capture Devices are recommended.



Alternative Solutions	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6	Alternative 7	Alternative 8	Alternative 9	Alternative 10
										
Technical	○	◑	◕	◕	◔	◑	◔	◕	◔	◑
Social	○	◕	○	●	◑	●	◑	●	◔	●
Natural Environment	◕	◕	◑	●	●	●	◑	◕	◕	◕
Archaeological / Cultural	●	●	◑	●	●	●	●	●	●	●
Cost	◕	◑	◔	◕	◑	◕	◑	◕	◑	●
Evaluation Summary	Not Recommended (Certain Exceptions)	Recommended to be Carried Forward (Full Replacement)	Not Recommended	Recommended to be Carried Forward	Not Recommended	Recommended to be Carried Forward	Not Recommended	Recommended to be Carried Forward	Not Recommended	Recommended to be Carried Forward

SWM - RECOMMENDED



2 – CULVERT UPGRADES / REPLACEMENT

- ✓ Targets met with other measures
- ✓ Compatible with land use
- ✓ Required to prevent flooding
- ✓ No impacts to terrestrial environment or archaeological resources
- ✓ Moderate construction and property costs
- ✗ Some impact on aquatic environment
- ✗ Access impacts during construction

4 – BIORETENTION FACILITIES

- ✓ Targets met with other measures (pretreatment)
- ✓ No impact to adjacent properties
- ✓ No impact to archeological resources
- ✓ Provides extra terrestrial habitat
- ✓ Minimal aquatic impact
- ✓ Moderate construction costs
- ✗ Higher costs for soil remediation and maintenance





6 – OIL GRIT SEPARATOR UNITS

- ✓ Targets met when combined with other measures
- ✓ Flexible locations
- ✓ Limited impacts to terrestrial habitats
- ✓ Improved aquatic habitat
- ✓ No impact to archaeological resources or adjacent properties
- ✓ Low construction cost with standard costs to maintain

8 – INFILTRATION TRENCHES

- ✓ Targets met
- ✓ Compatible with land use
- ✓ No impacts to archaeological resources
- ✓ Moderate construction and lower maintenance costs
- ✗ Reduces space available for other underground infrastructure
- ✗ Some impacts to terrestrial and aquatic environments





10 – CATCH BASIN CAPTURE DEVICES

- ✓ Targets met with other measures
- ✓ Located in existing infrastructure
- ✓ No impacts to terrestrial environment
- ✓ No impacts to cultural heritage or archaeological resources
- ✓ Low construction and maintenance costs

ACTIVE TRANSPORTATION ENVIRONMENT (AT)

For the study area, designated as a pedestrian improvement corridor, the addition of multi-use paths and cycle tracks were explored to address long term AT requirements per the STS.

Cycle Tracks (CT) – facilities separated from roads and sidewalks exclusively for bicycles.

- Unidirectional CT – Movement in one direction (One way)
- Bidirectional CT – Movement in two directions (Two way)

Multi-Use Paths (MUP) – facilities for varying modes of travel together: bicycles, pedestrians, and other non-motorized means of transportation.



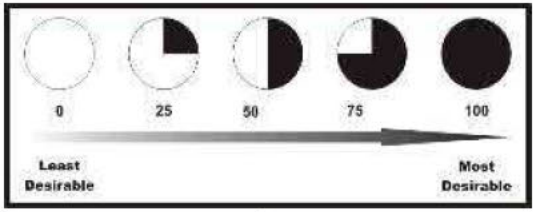
Cycle Track

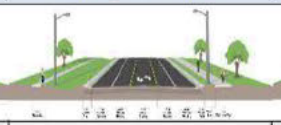
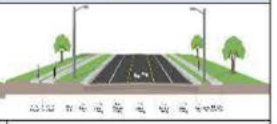
Multi-Use Path



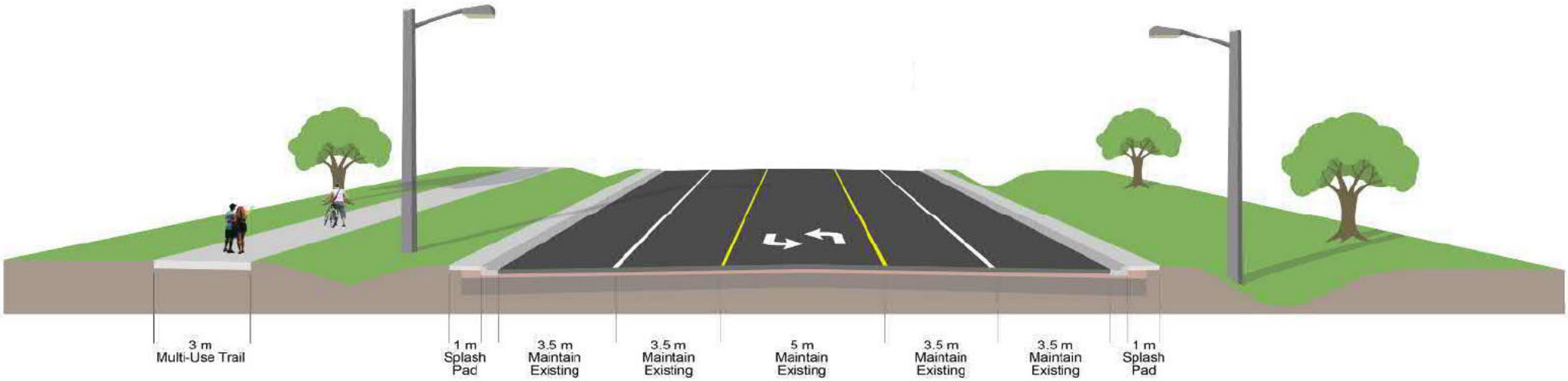
EVALUATION OF ALTERNATIVES – ACTIVE TRANSPORTATION

Alternative 5 – Multi Use Path; West Side is the recommended solution to be carried forward.



Alternative Solutions	Alternative 1	Alternative 2 - Cycle Track (East Side)	Alternative 3 - Cycle Track (West Side)	Alternative 4 - Multi Use Path (East Side)	Alternative 5 - Multi Use Path (West Side)	Alternative 6 - Cycle Tracks (E & W Sides)
	Do Nothing					
Traffic Operations & Safety	○	◑	●	◑	●	◑
Social	◑	◕	◕	◕	●	◕
Natural Environment	●	◔	◕	◔	◕	○
Archaeological / Cultural	●	●	●	●	●	●
Cost	●	◑	◑	◑	◕	◔
Evaluation Summary	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Recommended to be Carried Forward	Not Recommended

AT - RECOMMENDED - MULTI USE PATH (MUP) WEST SIDE



- ✓ Satisfies AT objectives with a connection to the proposed MUP immediately south at RR50 and Mayfield Road.
- ✓ Minimal property impacts.
- ✓ Negligible impacts on adjacent terrestrial or aquatic habitats.
- ✓ Could require removal of 18 trees (to be mitigated by the Region's 3/1 planting policy).
- ✓ No impacts to archaeological or cultural heritage resources.
- ✓ Reduced construction, property and maintenance costs. Contractor to maintain property access for businesses.

SUMMARY OF RECOMMENDED SOLUTIONS

The recommended solutions were determined to best address the Problem / Opportunity Statement and provide key benefits to the study area.



SWM Best Management Practices:

- Improved roadway drainage and surface water runoff conveyance.

Climate Change Requirements:

- Designed to reduce water quantity, include overflow capacity, slow infiltration and increase retention of surface runoff.

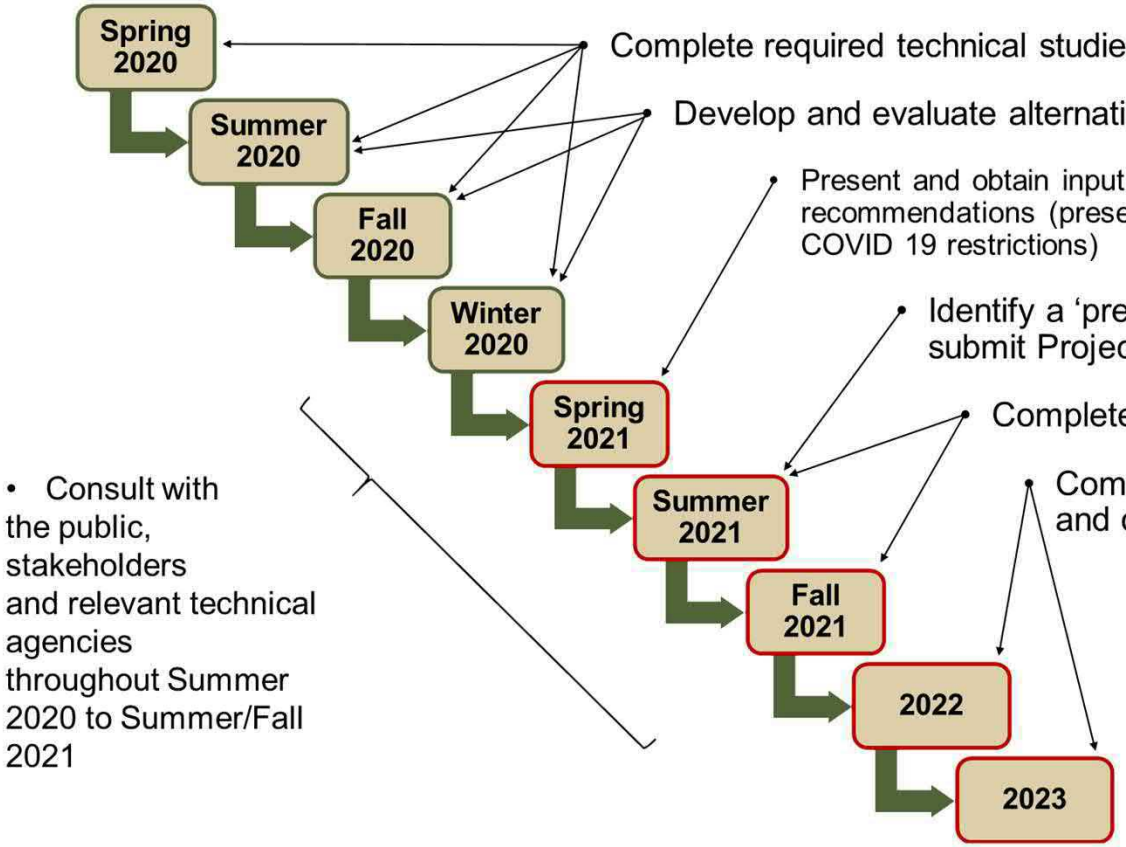
Existing Future and Regulatory Requirements:

- Improved water quality and quantity, closer to targets set out by the Region.

Active Transportation:

- Improved accessibility for pedestrians and cyclists through the corridor.

STUDY TIMELINE AND NEXT STEPS



Complete required technical studies*

Develop and evaluate alternative design concepts

Present and obtain input on alternative and preliminary recommendations (presentation format subject to current COVID 19 restrictions)

Identify a 'preferred solution', prepare and submit Project File for 30-day public review

Complete 30% preliminary design

Commence detailed design drawings and construction tender documents

- Consult with the public, stakeholders and relevant technical agencies throughout Summer 2020 to Summer/Fall 2021

* Completed and on-going studies: Topographic Survey; Natural Heritage Assessment; Archaeological Assessment; Cultural Heritage Assessment; Geotechnical Hydrological and Stage 1 Environmental Investigations; Fluvial Geomorphic and Hydraulic Assessment; and Transportation and Traffic Impact Assessment.

YOUR INPUT IS IMPORTANT

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Following this public consultation, the preliminary recommended solutions for the study area will be confirmed and/or revised in consideration of the comments received.

THANK YOU FOR ATTEDNING
PLEASE FILL OUT A COMMENT SHEET

Please contact us or email your comments to the project team by May 19th, 2021.

Project Team Contacts:

Region of Peel
Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Tel: 416-407-7860
E-mail: syeda.banuri@peelregion.ca



R.V. Anderson Associates Limited
Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals
Tel: 905-685-5049
E-mail: AMcGregor@rvanderson.com

MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
REGIONAL ROAD HIGHWAY 50 FROM MAYFIELD ROAD TO HEALEY ROAD
(RR50/MAYFIELD ROAD/HEALEY ROAD)

COMMENT FORM

NAME: _____

EMAIL (OPTIONAL): _____

MAILING ADDRESS (OPTIONAL): _____

_____

1. **Please check the box that applies to you:**

   - ☐ A Study Area Resident on RR50/Mayfield Road/Healey Road
   - ☐ A Study Area Property Owner living outside of RR50/Mayfield Road/Healey Road
   - ☐ From a Study Area Business
   - ☐ From Outside the Study Area
   - ☐ Interest Group Representative (Please Identify - _____)
   - ☐ Other (Please Identify - _____)

2. **Please rank the following study elements from 1 to 3, in terms of relative importance (with 1 being the most important to you and 3 the least important):**

   - ☐ Addressing roadway drainage and stormwater management needs
   - ☐ Improved accommodation of pedestrians and cyclists
   - ☐ Other (_____)

3. **Please provide your comments as they pertain to the following study components:**

   a) **Roadway drainage and stormwater management improvements, including the recommendation to replace existing culverts along the corridor**

_____

_____

_____

_____

_____

   b) **Accommodation of pedestrians and cyclists, including alternatives considered and recommendations (multi-use path along the west side of the corridor)**

_____

_____

_____

_____

_____

   c) **Other (Please describe)**

_____

_____

_____

_____

_____

4. **Do you have any other comments regarding the study/study area or other materials presented?**

_____

_____

_____

_____

_____

Please provide comments by May 19th, 2021 to:

By Email: syeda.banuri@peelregion.ca

By Mail: Syeda Banuri
c/o The Region of Peel
10 Peel Centre Drive, Suite B, 4th Fl.
Brampton, ON L6T 4B9

By Email: AMcGregor@rvanderson.com

By Mail: Andrew McGregor
c/o R.V. Anderson Associates Limited
43 Church Street, Suite 104
St. Catharines, ON L2R 7E1

Please use additional paper if required to complete your comments.

Apart from personal information, all comments will become part of the public record of study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

THANK YOU FOR YOUR TIME AND EFFORT!

APPENDIX 1 – 3

Information Package 2

MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT

Region of Peel
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REGIONAL ROAD 50 DRAINAGE IMPROVEMENTS ENVIRONMENTAL ASSESSMENT

ONLINE PUBLIC INFORMATION PACKAGE

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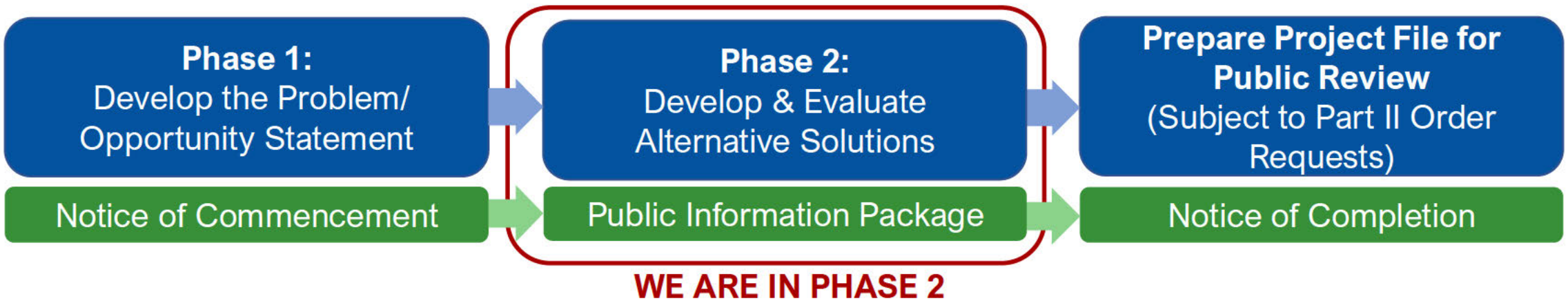


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The project is being completed as a **Schedule "B"** project in accordance with the MCEA (October 2000, amended in 2007, 2011 & 2015) and is subject to **Phase 1** and **Phase 2**.

PROBLEM / OPPORTUNITY STATEMENT



This EA study was initiated to address drainage improvements and upgrades required for failing culverts along Regional Road Highway 50 (RR50).

The study is considering:

- Best Management Practices
- Climate Change Requirements
- Existing and Future Regulatory Requirements
- Active Transportation Improvements (e.g., pedestrian and cycling amenities)

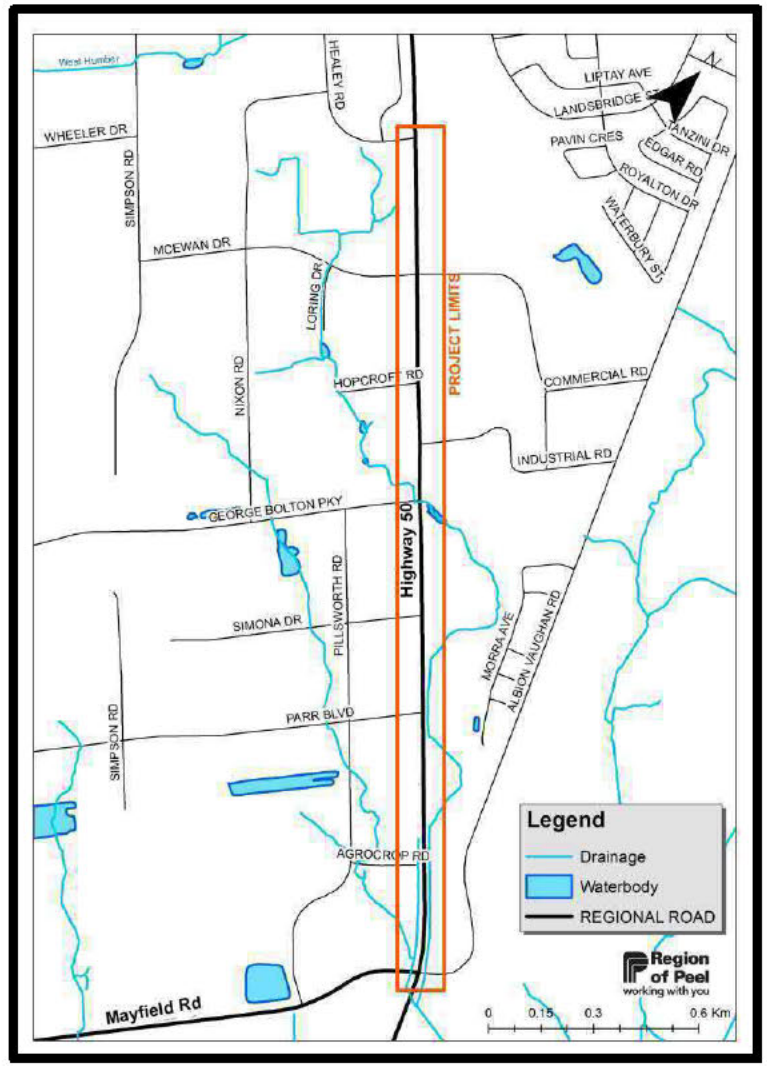
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HIGHWAY 50 STUDY AREA

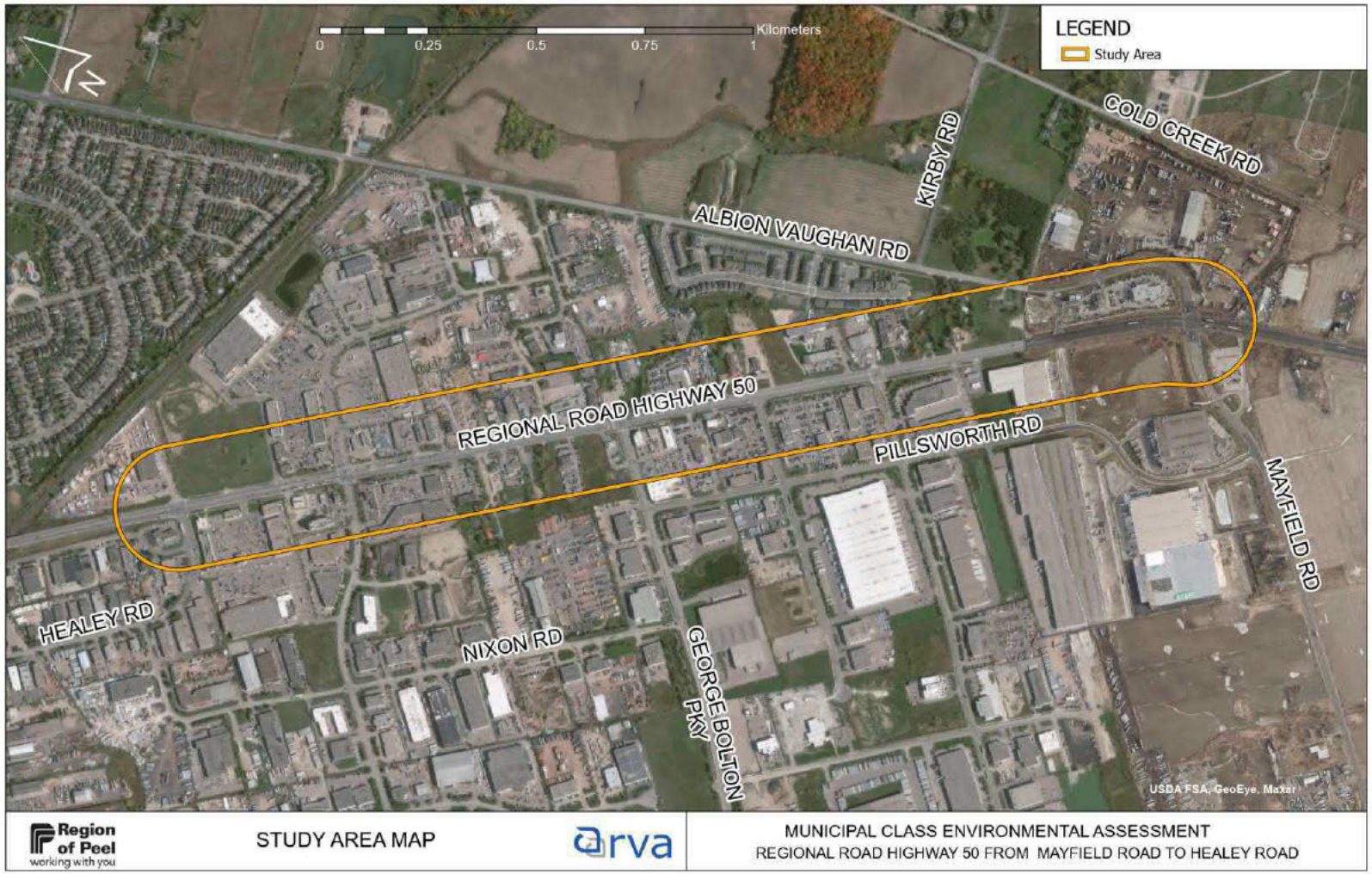
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In consideration of the Region's 'Sustainable Transportation Strategy' (STS), options to improve pedestrian and cyclist amenities are included.



HIGHWAY 50 STUDY AREA MAP



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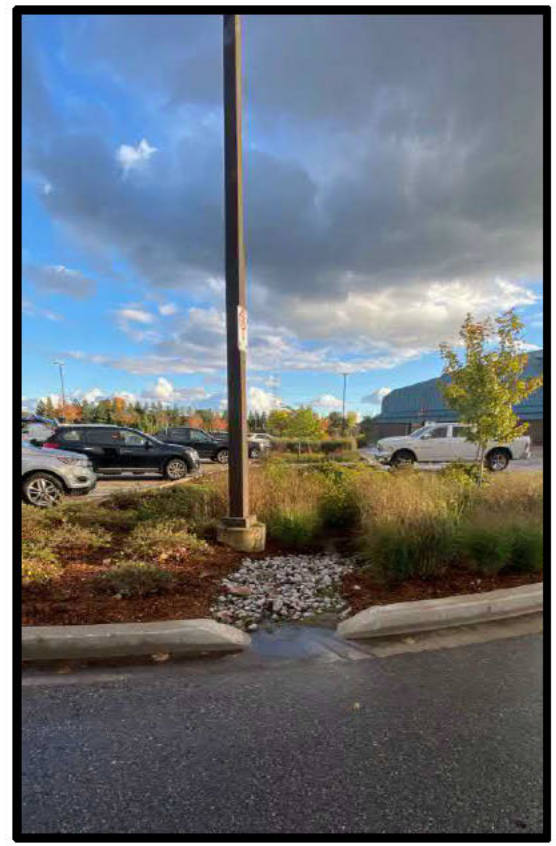
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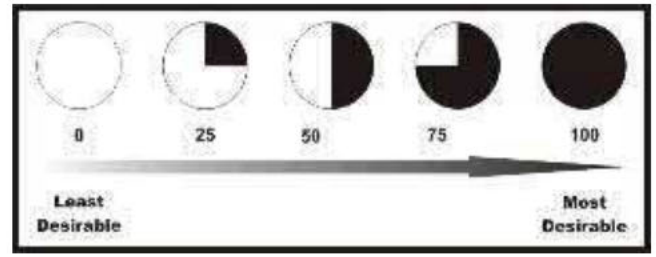
STORMWATER MANAGEMENT (SWM)

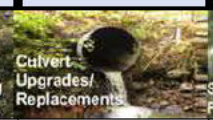
- **Best Management Practices (BMPs)** are methods applied to decrease the harmful impacts of land use development and activities on the environment.
- ***Low Impact Development*** **(LID)** practices are typically applied to meet stormwater management targets for water quality, geomorphic (erosion management) and water budget objectives.
- LID techniques achieve a **"treatment train"** approach by reducing flow volume, decreasing runoff intensity, as well as removing nutrients, pathogens, and metals from stormwater on its path to the receiver.
- LID BMPs are designed with considerations for **sustainability and maintenance** requirements.



EVALUATION OF ALTERNATIVES – STORMWATER MANAGEMENT

Alternative 2 – Culvert Replacements/Upgrades (Full Replacement), **Alternative 4** - Bioretention Facilities (BioSwale & BioSwale Box), **Alternative 6** – Oil Grit Separator Units, **Alternative 8** – Infiltration Trench & Infiltration Chamber, and **Alternative 10** – Catchbasin Capture Devices & Shields are recommended.



Alternative Solutions	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6	Alternative 7	Alternative 8	Alternative 9	Alternative 10
										
Technical	○	◑	◕	◕	◔	◑	◔	◕	◔	◑
Social Environment	○	◕	○	●	◑	●	◑	●	◔	●
Natural Environment	◕	◕	◑	●	●	●	◑	◕	◕	◕
Archaeological / Cultural	●	●	◑	●	●	●	●	●	●	●
Cost	◕	◑	◔	◕	◑	◕	◑	◕	◑	●
Evaluation Summary	Not Recommended (Certain Exceptions)	Recommended to be Carried Forward	Not Recommended	Recommended to be Carried Forward	Not Recommended	Recommended to be Carried Forward	Not Recommended	Recommended to be Carried Forward	Not Recommended	Recommended to be Carried Forward

SWM – PRELIMINARY PREFERRED ALTERNATIVES



2 – CULVERT UPGRADES / REPLACEMENTS

- ✓ Targets met with other measures
- ✓ Compatible with land use
- ✓ Required to prevent flooding
- ✓ No impacts to terrestrial environment or archaeological resources
- ✓ Moderate construction and property costs
- ✗ Some impact on aquatic environment
- ✗ Access impacts during construction

4 – BIORETENTION FACILITIES (BIO SWALE / SWALE BOX)

- ✓ Targets met with other measures (pretreatment)
- ✓ No impact to adjacent properties
- ✓ No impact to archeological resources
- ✓ Provides extra terrestrial habitat
- ✓ Minimal aquatic impact
- ✓ Moderate construction costs
- ✗ Higher costs for soil remediation and maintenance





6 – OIL GRIT SEPARATOR UNITS

- ✓ Targets met when combined with other measures
- ✓ Flexible locations
- ✓ Limited impacts to terrestrial habitats
- ✓ Improved aquatic habitat
- ✓ No impact to archaeological resources or adjacent properties
- ✓ Low construction cost with standard costs to maintain

8 – INFILTRATION TRENCH & CHAMBER

- ✓ Targets met
- ✓ Compatible with land use
- ✓ No impacts to archaeological resources
- ✓ Moderate construction and lower maintenance costs
- ✗ Reduces space available for other underground infrastructure
- ✗ Some impacts to terrestrial and aquatic environments





10 – CATCHBASIN CAPTURE DEVICES / SHIELDS

- ✓ Targets met with other measures
- ✓ Located in existing infrastructure
- ✓ No impacts to terrestrial environment
- ✓ No impacts to cultural heritage or archaeological resources
- ✓ Low construction and maintenance costs

ACTIVE TRANSPORTATION (AT) ENVIRONMENT

For the study area, designated as a pedestrian improvement corridor, the addition of multi-use paths, cycle tracks and sidewalks were explored to address long term AT requirements per the STS.

Cycle Tracks (CT) – facilities separated from roads and sidewalks exclusively for bicycles.

- Unidirectional CT – Movement in one direction (One way)
- Bidirectional CT – Movement in two directions (Two way)

Multi-Use Path (MUP) – facilities for varying modes of travel together: bicycles, pedestrians, and other non-motorized means of transportation.



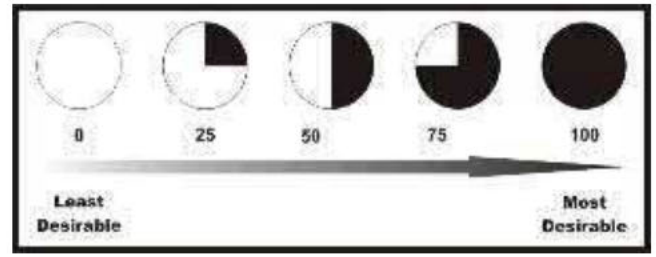
Cycle Track

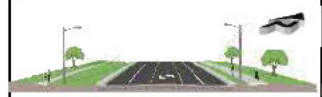
Multi-Use Path



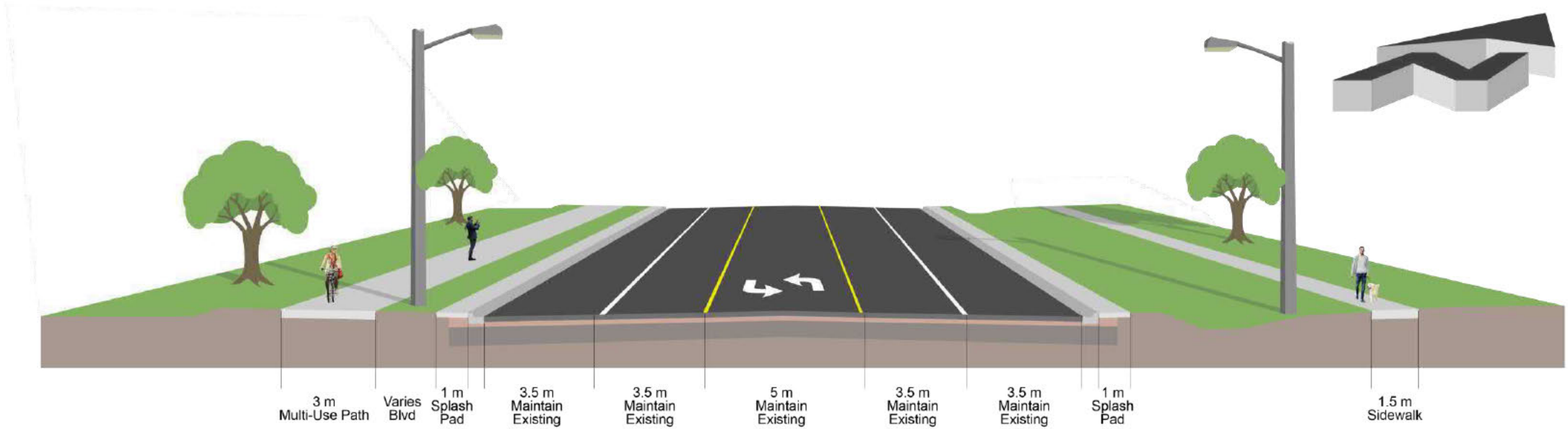
EVALUATION OF ALTERNATIVES – ACTIVE TRANSPORTATION

Alternative 7 – Multi-Use Path (MUP) West Side and Sidewalk East Side from 12599 RR50 to George Bolton Parkway is the recommended solution to be carried forward.



Alternative Solutions	Alternative 1	Alternative 2 - CT (East Side)	Alternative 3 - CT (West Side)	Alternative 4 - MUP (East Side)	Alternative 5 - MUP (West Side)	Alternative 6 - CT (East & West Sides)	Alternative 7 - MUP (West Side) & Sidewalk (East Side)
	Do Nothing						
Traffic Operations & Safety	○	◑	●	◑	◕	◑	●
Social Environment	◑	◕	◕	◕	●	◕	●
Natural Environment	●	◔	◕	◔	◕	○	◕
Archaeological / Cultural	●	●	●	●	●	●	●
Cost	●	◑	◑	◑	◕	◔	◕
Evaluation Summary	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Not Recommended	Recommended to be Carried Forward

AT - PREFERRED - MUP WEST SIDE & SIDEWALK EAST SIDE



- ✓ Satisfies AT connectivity objectives.
- ✓ Minimal property impacts.
- ✓ Negligible impacts on adjacent terrestrial and aquatic habitats.
- ✓ Could require removal of 18 trees (to be mitigated by the Region's 3/1 planting policy).
- ✓ No impacts to archaeological or cultural heritage resources.
- ✓ Reduced construction, property and maintenance costs. Contractor to maintain property access for businesses.

SUMMARY OF PRELIMINARY PREFERRED SOLUTIONS

The preferred solutions were determined to best address the Problem / Opportunity Statement and provide key benefits to the study area.



SWM Best Management Practices:

- Improved roadway drainage and surface water runoff conveyance.

Climate Change Requirements:

- Designed to reduce water quantity, increase overflow capacity, slow infiltration and increase retention of surface runoff.

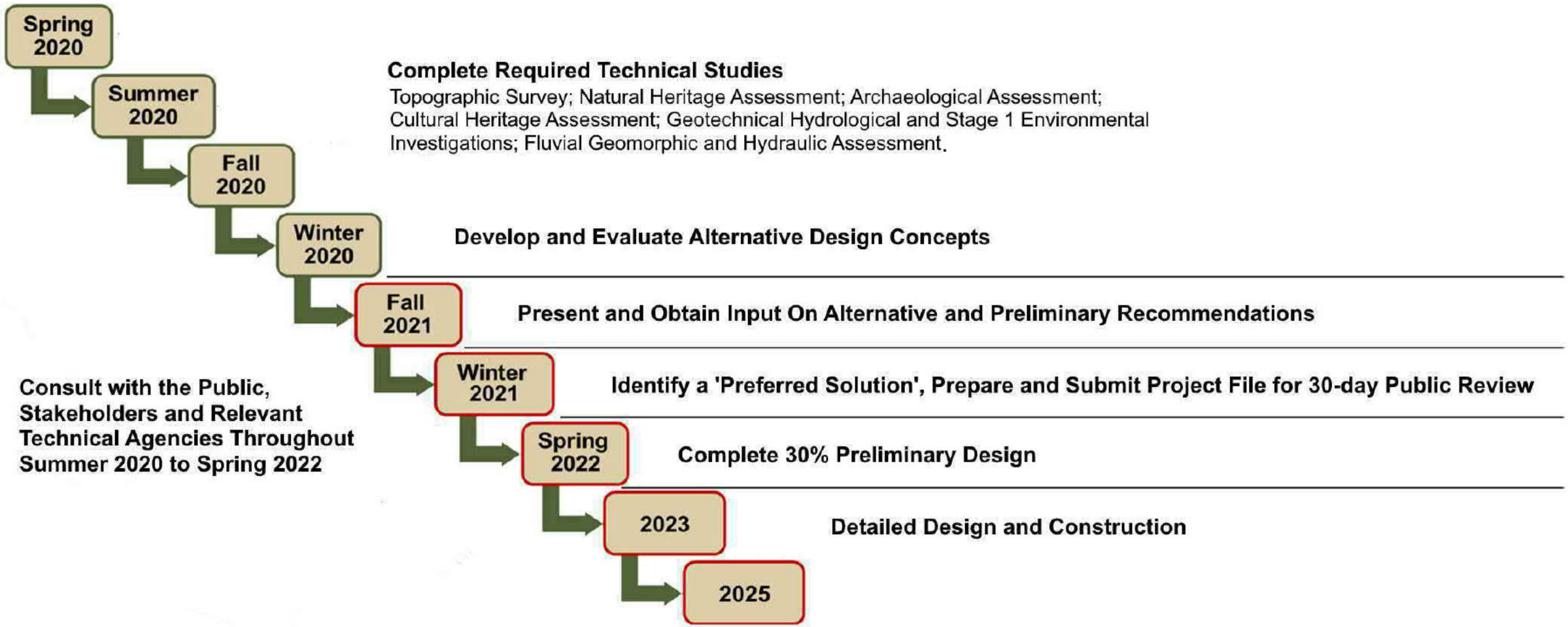
Regulatory Requirements:

- Improved water quality and quantity, closer to targets set out by the Region.

Active Transportation:

- Improved accessibility for pedestrians and cyclists through the corridor.

STUDY TIMELINE AND NEXT STEPS



APPENDIX 1 – 3

Public Information Centre 2



Please click the image (above) to view the main project page

Region of Peel - Highway 50 Drainage Improvements EA

Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 From Mayfield Road To Healey Road

Region of Peel

Land Acknowledgement

We would like to begin by acknowledging the land on which we gather, and which the Region of Peel operates, is part of the Treaty Lands and Territory of the Mississaugas of the Credit. For thousands of years, Indigenous peoples inhabited and cared for this land, and continue to do so today. In particular we acknowledge the territory of the Anishinabek, Huron-Wendat, Haudenosaunee and Ojibway/Chippewa peoples; the land that is home to the Metis; and most recently, the territory of the Mississaugas of the Credit First Nation who are direct descendants of the Mississaugas of the Credit (**Peel Aboriginal Network**).

We are grateful to have the opportunity to work on this land, and by doing so, give our respect to its first inhabitants.

Online Public Information Package

The purpose of providing the information in this package is to:

- Describe the Project
- Discuss the Identified Problems and Opportunities
- Provide Alternative and Preliminary Recommended Solutions
- Generate Feedback to Help Guide Project Development
- Outline the Next Steps in the Project

Please review the materials and provide your input by submitting comment forms or questions directly to the project team contacts (contact information provided at the bottom of the page).



Culvert and drainage ditch located along Highway 50 in the study area.

We want your input!

Following this public consultation, the preferred **Stormwater Management (SWM) and Active Transportation (AT)** solutions will be confirmed in consideration of comments received.

Who is involved?

The study area for the project consists of approximately 2.5 kilometres along Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon. The corridor, which is controlled by the Region of Peel, is also located within the Humber River watershed, under the jurisdiction of the Toronto and Region Conservation Authority (TRCA).

Through the Class EA, various other stakeholders, including members of the public and local business community, First Nations communities, and technical agencies (e.g. Ministry of the Environment, Conservation and Parks, Ministry of Northern Development, Mines, Natural Resources and Forestry *and* Ministry of Tourism, Culture and Sport) are given the opportunity to provide input into the planning process and study recommendations.

Map of the Highway 50 Study Area



Highway 50 Environmental Assessment (EA) Study Area Map

Please click the map (above) to view the interactive map on the PIC#2 page

What is the problem?
What improvements are needed?

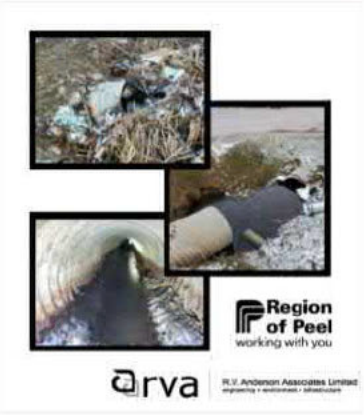
This Environmental Assessment (EA) study was initiated to identify drainage improvements required along Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon.

Inspections undertaken by the Region of Peel in 2017 identified entrance culverts and drainage infrastructure in the study area have reached end of their service life.

Additional opportunities to improve pedestrian and cyclist connectivity along the corridor were also identified in consideration of the Region's ***Sustainable Transportation Strategy (STS)***.

What is the purpose of the project?

The problem/opportunity statement



Sewers and culverts in the Highway 50 study area

Upgrades are needed to address existing and future problems caused by failing stormwater infrastructure. As growth continues, in keeping with Regional policies and priorities, such as 'Community For Life', the Region of Peel is working to create communities resilient to the impacts of climate change and striving to improve:

- **Living** by keeping communities safe from flooding risks;
- **Thriving** through adding sustainable transportation option;
- **Leading** by maintaining our assets in a state of good repair.

This project is required to ***service*** **current needs** and **demands of future growth, *improve* stormwater management** (quality and quantity), minimize environmental degradation, mitigate impacts from climate change, ***provide*** **alternative transportation** options, increase connectivity through the corridor and create a vibrant streetscape for the local community.

Why are we undertaking a Municipal Class Environmental Assessment?

The Municipal Class Environmental Assessment (MCEA) guides the planning of municipal infrastructure (**road, water, wastewater and transit**) projects.

- Ensures all **reasonable alternatives** are considered to recommend a solution with **minimal impact** on the natural, cultural, social and economic **environments.**
- **Input** from the **public, stakeholders** and **technical agencies** is essential.

The project is being completed as a **Schedule "B"** project in accordance with the MCEA process (October 2000, amended in 2007, 2011 & 2015) and is subject to **Phase 1, Phase 2** and **Phase 5**.

Where are we in the process?



Municipal Class Environmental Assessment (MCEA) Schedule "B" Process

We are currently in **Phase 2** of the project and the information presented on these pages is a requirement of the public consultation process.

Due to COVID-19 gathering restrictions in place during Phase 1, information about the project was presented on the Region of Peel website. Please click on the Public Information Package 1 link to view the project page.

https://www.peelregion.ca/public-works/environmental-assessments/_media/ea-hwy50-drainage.pdf

When are the milestones within the project schedule?



Highway 50 Project Schedule, Timeline and Next Steps

Technical Studies and Draft Reports Completed to Date

Phase I Environmental Site Assessment (ESA)

Identifies potential sources of contamination that may impact the proposed construction works. Completed May 8, 2020. Please click the "Phase I ESA" button above to view the draft document.

Phase I ESA

Stage 1 Archaeological Assessment

Identifies potential of project works to impact archaeological resources. Completed July 29, 2020. Please click the "Stage 1 Archaeological Assessment" button above to view the draft document.

Stage 1 Archaeological Assessment

Geotechnical Investigation Report

Describes subsurface conditions and recommends designs for soil stability. Completed September 17, 2020. Please click the "Geotechnical Investigation" button above to view the draft document.

Geotechnical Investigation

Hydrogeological Investigation Report

Characterizes baseline soil and groundwater conditions. Completed October 7, 2020. Please click the "Hydrogeological Investigation" button above to view the draft document.

Hydrogeological Investigation

Cultural Heritage Assessment - Built Heritage Resources & Cultural Heritage Landscapes

Identifies potential to impact areas of cultural heritage significance in the study area. Completed October 20, 2020. Please click the "Cultural Heritage Assessment" button above to view the draft document.

Cultural Heritage Assessment

Natural Heritage Report - Impact Assessment

Identifies natural heritage areas and/or features of environmental sensitivity and/or significance. Completed November 2021. Please click the "Natural Heritage Report" button above to view the draft document.

Natural Heritage Report

Fluvial Geomorphology and Hydraulic Assessments

Documents the existing condition and constraints within West Robinson Creek. Completed November, 2021. Please click the "Fluvial Geomorphology & Hydraulic" button above to view the draft document.

Fluvial Geomorphology & Hydraulic

Stormwater Management Report

Outlines the Stormwater Management strategy that considers best manangement practices, supports climate change requirements and meets regulatory requirements. Completed November 15, 2021. Please click the "Stormwater Management Report" button above to view the draft document.

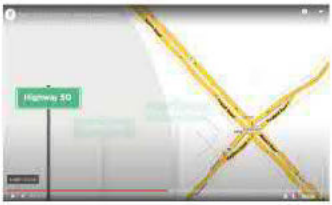
Stormwater Management Report

How will improvements happen?

Please click either of the Region of Peel Stormwater Servicing Master Plan Video images to view the video

Stormwater Management (SWM)

Below is a video which explains what stormwater is, the Region's role in managing water on regional roads (including the Highway 50 study area), why management is necessary and how the natural environment is protected as a result of using a Low Impact Development (LID) design approach.



Region of Peel Stormwater Servicing Master Plan Video

Best Management Practices (BMPs) are methods applied to decrease the harmful impacts of land use development and activities on the environment. This project evaluates **LID** approaches, **BMP**s for reducing flow volume, decreasing runoff intensity, as well as removing nutrients, pathogens, and metals from stormwater. Opportunities to improve result from mitigating local effects of urbanization on the Rainbow Creek subwatershed and achieving recommended **water quality and quantity objectives** set out in the Region of Peel's ***Public Works Stormwater Design Criteria and Procedural Manual (2019)***.



Region of Peel Stormwater Servicing Master Plan Video

Active Transportation (AT)



Cycle Track

Multi-Use Path



For the study area, designated as a pedestrian improvement corridor, **the addition of multi-use paths, cycle tracks and sidewalks** were explored to address long term active transportation requirements **per the Sustainable Transportation Strategy (STS)**.

Sidewalk - A facility separated from the roadway for pedestrians and cyclists.

Cycle Track (CT) – A facility separated from roads and sidewalks exclusively for bicycles and cyclists.

Multi-Use Path (MUP) – A facility for varying modes of travel together: bicycles, pedestrians, and other non-motorized means of transportation.

How will the alternatives for Stormwater Management and Active Transportation be evaluated?

Alternative Solutions for Stormwater Management (SWM) and Active Transportation (AT) were comparatively evaluated **using criteria that represent the broad definition of the environment** (from the **Environmental Assessment Act**).

Criteria		Description
	Technical	Are the technical requirements of the project addressed (Water Quantity, Water Quality, Erosion Control Measures, etc.)?
	Traffic Operations & Safety	Are the existing and future pedestrian and cycling traffic needs served (Sustainability, Active Transportation, Connectivity, etc.)?
	Social Environment	What are the impacts on the local community (Land Use Compatibility, Flow for Local Businesses, Property Requirements, Accessibility Restrictions, etc.)?
	Natural Environment	Are existing terrestrial and aquatic habitats affected (Wildlife, Fisheries, Vegetation Communities)? Are climate change impacts considered and addressed?
	Archaeological & Cultural Heritage	Are First Nations communities, cultural heritage resources, or archeological resources affected?
	Cost	What are the costs (Capital Cost, Utility Relocations, Property Acquisitions, etc.)? What are the operation and maintenance costs related to the alternative?

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The "Environment" Definitions - Evaluation Criteria Summary Table

Evaluation of Alternative Solutions and Preliminary Recommendations

Stormwater Management (SWM) Alternative Solutions

Following a comparative evaluation of the alternative solutions, the combination of alternatives below; Sewer Upgrades and Replacements, Bioretention Facilities, Oil and Grit Separator Units (OGS), Infiltration Trenches and Catchbasin Shields are the **preliminary recommended solutions** to be carried forward. Sewers Upgrades include culverts and sewer pipe infrastructure.

Alternatives - Recommended	Evaluation Criteria				
Alternatives	Technical	Social	Natural	Cultural	Cost
Sewer Upgrades	◑	◕	◕	●	◑
Bioretention Facilities	◕	●	●	●	◕
Oil / Grit Separator Units (OGS)	◑	●	●	●	◕
Infiltration Trenches	◕	●	◕	●	◕
Catchbasin Shields	◑	●	◕	●	●

Evaluation Summary Table of SWM Alternative Solutions - Recommended

Following a comparative evaluation of the alternative solutions, the alternatives below; Do Nothing, Stormwater Management (SWM) Pond, Permeable Pavement, Superpipe Storage and Enhanced Ditches **are NOT recommended.**

Alternatives - Not Recommended	Evaluation Criteria				
Alternatives	Technical	Social	Natural	Cultural	Cost
Do Nothing	○	○	◕	●	◕
SWM Pond	◕	○	◑	◑	◔
Permeable Pavement	◔	◑	●	●	◑
Superpipe Storage	◔	◑	◑	●	◑
Enhanced Ditches	◔	◔	◕	●	◑

Evaluation Summary Table of SWM Alternative Solutions - Not Recommended

Active Transportation (AT) Alternative Solutions

The alternative solutions below; Do Nothing, Cycle Track East Side, Cycle Track West Side, Multi-Use Path East Side, Multi-Use Path West Side, Cycle Tracks East / West Sides, and Multi-Use Path West Side / Sidewalk East Side were comparatively evaluated.

Multi-Use Path (MUP) West Side and Sidewalk East Side, from 12599 RR50 to George Bolton Parkway, is the **preliminary recommended solution** to be carried forward.

Alternatives		Evaluation Criteria				
		Traffic/Safety	Social	Natural	Cultural	Cost
Not Recommended						
Do Nothing	No Changes	○	◑	●	●	●
Cycle Track East Side		◑	◕	◔	●	◑
Cycle Track West Side		●	◕	◕	●	◑
Multi-Use Path East Side		◑	◕	◔	●	◑
Multi-Use Path West Side		◕	●	◕	●	◕
Cycle Tracks East & West Sides		◑	◕	○	●	◔
Recommended						
Multi-Use Path West Side Sidewalk East Side		●	●	◕	●	◕

Evaluation Summary Table of AT Alternative Solutions

Stormwater Management (SWM)

Preliminary Recommended Solutions



The map shows the location of the preliminary recommended solutions for different sections of the corridor. They are; Sewer Upgrades and Replacements, Bioretention Facilities, Oil and Grit Separator Units, Infiltration Trenches, and Catchbasin Shields.

The preliminary recommended solutions will improve the future water quality and will help enhance the Rainbow Creek watershed and the watercourse. With limited space available, we have respected the watercourse and implemented quality and quantity stormwater management LID techniques where possible.

Please click the map above to view the interactive map on the PIC#2 page



Sewer Upgrades and Replacements

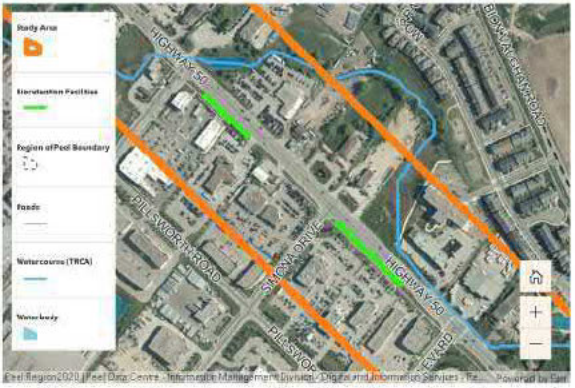


Sewers Upgrades include culverts and sewer pipe infrastructure.

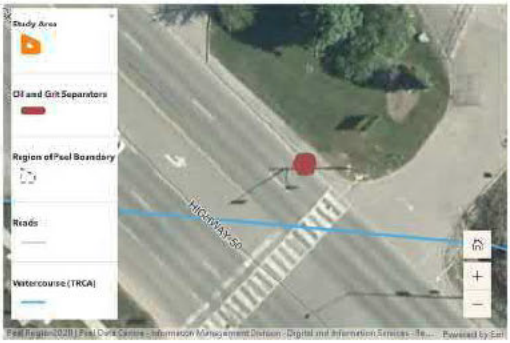
- Water quality and quantity objectives set out by the Region met when combined with other measures
- Compatible with adjacent land use
- Required to prevent flooding
- No impacts to terrestrial environment or archaeological resources
- Moderate construction and property costs



Bioretention Facilities



- Water quality and quantity objectives set out by the Region met when combined with other measures (pretreatment)
- No impact to adjacent properties
- No impact to archaeological resources
- Provides additional terrestrial habitat
- Minimal aquatic impact
- Moderate construction costs





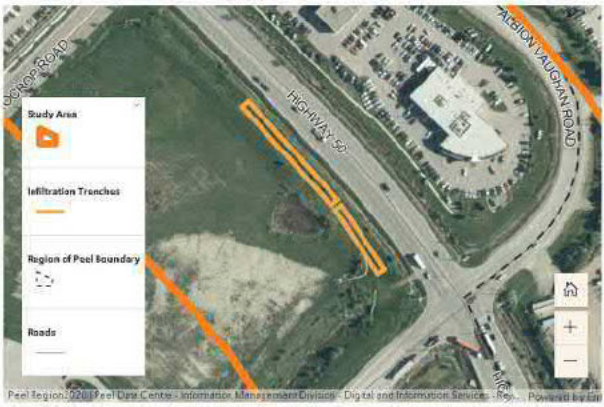


Oil and Grit Separator Units

- Water quality and quantity objectives set out by the Region met when combined with other measures
- Flexible locations
- Limited impacts to terrestrial habitats
- Improved aquatic habitat
- No impact to archaeological resources or adjacent properties
- Low construction cost with standard costs to maintain



Infiltration Trenches



- Water quality and quantity objectives set out by the Region met when combined with other measures
- Compatible with land use
- No impacts to archaeological resources
- Moderate construction and lower maintenance costs



Catchbasin Shields

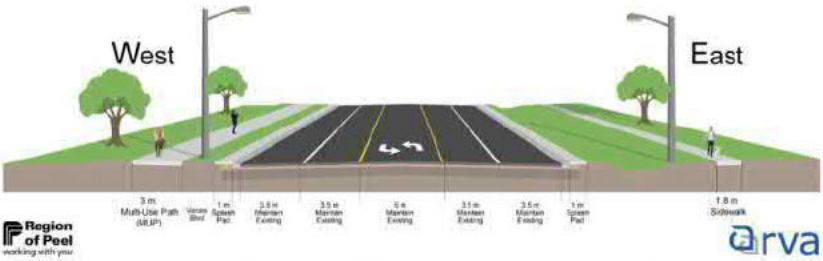


- Water quality and quantity objectives set out by the Region met when combined with other measures
- Located in existing infrastructure
- No impacts to terrestrial environment
- No impacts to cultural heritage or archaeological resources
- Low construction and maintenance costs

Active Transportation (AT)

Preliminary Recommended Solution

Multi-Use Path West Side and Sidewalk East Side



Multi-Use Path (MUP) West Side and Sidewalk East Side

Active Transportation (AT)

Preliminary Recommended Solution

- Satisfies Active Transportation objectives.
- Minimal property impacts.
- Negligible impacts on adjacent terrestrial and aquatic habitats.
- Could require removal of 18 trees (to be mitigated by the Region's 3/1 planting policy).

- No impacts to archaeological or cultural heritage resources.
- Reduced construction, property and maintenance costs.
- Contractor to maintain property access for businesses.

Business accesses on both sides will be maintained during construction to ensure the least amount of disruption. The Region of Peel is committed to continue to work together to keep the local community informed.



A sensitive natural area located along the corridor.

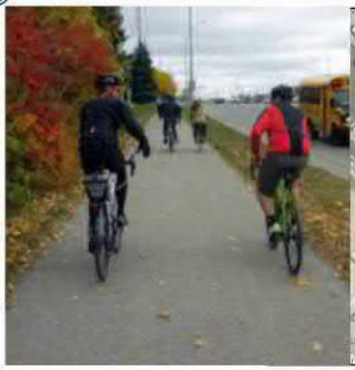
The Multi-Use Path (MUP) located on the west side and sidewalk on the east side, will improve the pedestrian and cyclist connectivity along the corridor without impacting the watercourse or sensitive natural areas located along the east side of Highway 50.

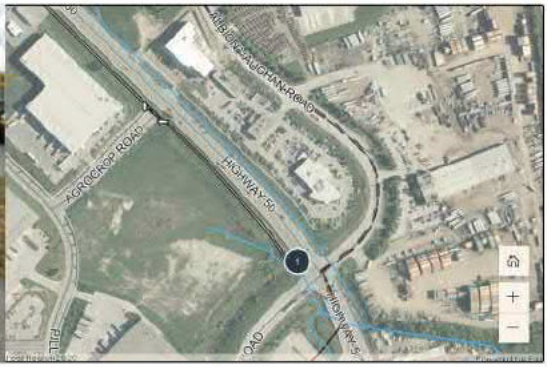
Please click the map (right) to view the interactive map on the PIC#2 page



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1 Multi-Use Path - South Connection

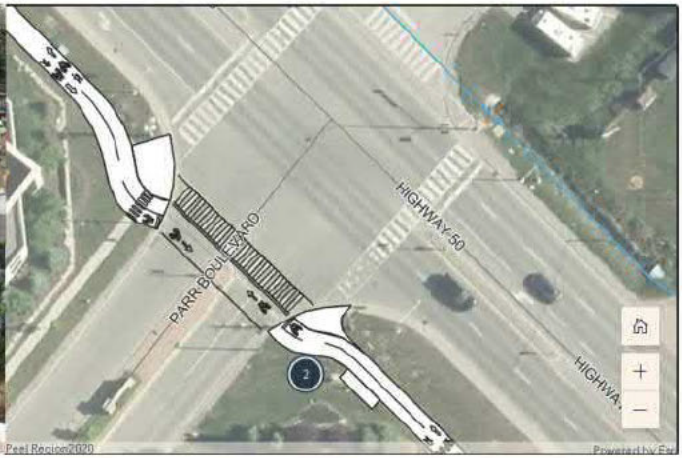




Connection south to future MUP as part of Regional Road 50 Improvements Project at Mayfield Road and Albion Vaughan Road intersection.

2 Rest Area & Crossride





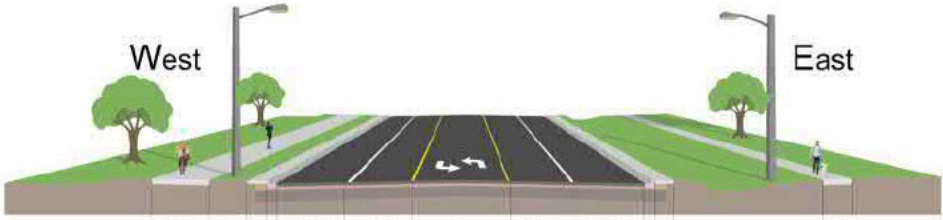
Parr Boulevard intersection. A safer crossing for cyclists and pedestrians.

3 Crossride



Simona Drive intersection. A safer crossing for cyclists and pedestrians.

Multi-Use Path West Side and Sidewalk East Side



4 Multi- Use Path - East Connections

5 Sidewalk East Side



Rest Area, Crossrides, MUP connections and Sidewalk connection at George Bolton Parkway intersection. Safer crossings for cyclists and pedestrians. Connection to existing sidewalks and upgrade to AODA compliant width of 1.8 metres

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6 Rest Area & Crossride



McEwan Drive West Intersection. A safer crossing for cyclists and pedestrians.

7 Multi-Use Path - North Connection



Crossrides at Healey Road intersection connecting MUP to future bridge rehabilitation project to the north. Safer crossings for cyclists and pedestrians.

Summary

The preliminary recommended solutions were determined to best address the Problem/Opportunity Statement and provide key benefits to the study area.

- ***SWM Best Management Practices***
  Improved roadway drainage and surface water runoff conveyance.
- ***Climate Change Requirements***
  Designed to reduce water quantity, increase overflow capacity, slow infiltration and increase retention of surface runoff.
- ***Regulatory Requirements***
  Improved water quality and quantity, closer to targets set out by the Region.
- ***Active Transportation***
  Improved accessibility for pedestrians and cyclists through the corridor.
  Increased connectivity to existing and future walking and cycling (active transportation) networks.



Questions and Comments

Thank You For Your Interest In This Study. Your Input Is Important To Us!

Following this public consultation, the preliminary recommended solutions for the study area will be confirmed and/or revised in consideration of the comments received.

Comment Form

Please note that this is the final Public Information Centre (PIC) for the study.

We will be accepting feedback for PIC 2 until April 8, 2022.

A formal response to all questions, comments and feedback will be available on April 22, 2022.

Please contact us or email your comments to the project team.
Project team contacts:

Region of Peel
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engineering • environment • infrastructure

Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals

Telephone: (905) - 685 - 5049
E-mail: AMcGregor@rvanderson.com

Email Andrew McGregor

Privacy and Accessibility

The Region of Peel is committed to ensuring that persons of all abilities are able to access our programs and services without encountering barriers. To view this virtual public information center in an alternative format click the "Alternative Format" button below.

Alternative Format

Tell us how we are doing on accessibility at the Region of Peel by providing your feedback on accessible customer service. Please click the "Provide Accessibility Feedback" button below.

Provide Accessibility Feedback

Please note that information related to this study will be collected in accordance with the *Freedom of Information and Protection of Privacy Act*. All comments related will become part of the public record and may be included in the study documentation prepared for public review

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Data Sources

Region of Peel, R.V. Anderson Associates Limited, Toronto and Region Conservation Authority, Land Information Ontario.

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Regional Road Highway 50 drainage improvements from Mayfield Road to Healey Road - EA

This Virtual Public Information Centre (PIC) No. 2 begins March 17, 2022. Please submit your questions or comments using this form between March 17, 2022 and April 8, 2022. A formal response to all comments submitted will be posted on the project's website on April 22, 2022.

Visit the project website:
https://www.peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp (https://www.peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp)

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* Required

1. Please provide your first and last name (optional)

2. If you would like to receive updates on this project, please enter your email address below:

3. Please select the organization or group you associate with: *

- ◯ Business/Property Owner
- ◯ General/Interested Stakeholder
- ◯ Conservation Authority
- ◯ Other

4. Please provide your questions and/or comments regarding the **Public Information Centre 2 (PIC#2)** below: *

Region of Peel
working with you

APPENDIX 1 – 4

Technical Agency and Key Stakeholder Consultation

Subject: RE: Rational Road 50 Class EA ~ Meeting Availability TAC MEETING 1

From: Andrew McGregor
Sent: November 20, 2019 12:53 PM
To: Olek.Garbos@peelregion.ca; Bob.Nieuwenhuysen@peelregion.ca; Judy.Yack@peelregion.ca; Manvir.Tatla@peelregion.ca; Sally.Rook@peelregion.ca; Mark.Crawford@peelregion.ca; Len.Gardiner@peelregion.ca; sharon.lingertat@trca.on.ca; Ryan Grodecki <Ryan.Grodecki@caledon.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Peter Cho <pcho@rvanderson.com>; Charlotte Sappleton <CSappleton@rvanderson.com>
Subject: Rational Road 50 Class EA ~ Meeting Availability

Hello all,

RV Anderson Associates (RVA) has been retained by the Region of Peel (Region) to undertake a Schedule B Class EA and Preliminary Design for drainage and active transportation improvements along the section of RR50 from Mayfield Road to Healey Road, in the Town of Caledon.

Key elements of the study include:

- Improving existing stormwater / drainage infrastructure to cater to existing and future growth;
- Reviewing and providing economical Low Impact Development (LID) options;
- Exploring options for the use of a Multi Use Path (MUP);
- Developing a solution that addresses the Region's requirements that avoids (where possible) or minimizes impacts to the natural, socio-economic and cultural environments.

Prior to moving forward with the study, we would like to have an *initial technical team meeting* with you/your Dept/Agency in order to ensure your concerns and particular area(s) of interest are adequately incorporated into the study.

To assist the team in arranging a suitable time to meet prior to the holiday season, we will be sending out a *Doodle Poll* shortly. A meeting date/time will be confirmed based on the responses received and a subsequent meeting notice will be sent out. Please note that you will be provided ample opportunity to comment on the study in the event that you are not available to attend this initial meeting.

We would appreciate your response to the Doodle Poll at your earliest convenience.

Kind regards,

Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals

R.V. Anderson Associates Limited
43 Church Street, Suite 104
St. Catharines, ON L2R 7E1
T 905-685-5049 x 4211 | **C** 905-964-4056
website | facebook | twitter | linkedin

Please consider the environment before printing this email.

R.V. Anderson Associates Limited
43 Church Street Suite 104
St. Catharines Ontario L2R 7E1 Canada
Tel 905 685 5049 Fax 855 833 4022
www.rvanderson.com

MEETING MINUTES

Regional Road 50 Drainage Improvements EA - Project Initiation Meeting

DATE: December 13, 2019

PLACE: Caledon Room, Region of Peel Office, 10 Peel Centre Drive, Suite A
Brampton ON L6T 4B9

PROJECT NO.: 194615

PRESENT: **Region of Peel (Region)**: Syeda Banuri, Olek Garbos, Bob Nieuwenhuysen, Jason Tran, Gayle Gorman, Mark Knuckle, Farshad Salehzade, Shahzeb Shaikh, Manvir Tatla
Toronto Region Conservation Authority (TRCA): Jairo Morelli, Caroline Mugo
Town of Caledon (Town): Ryan Grodecki
R.V. Anderson Associates Limited (RVA): Andrew McGregor, Peter Cho, Tyler Young

The purpose of the meeting was to introduce the project and study, review and confirm the study scope, and receive input from technical agencies on the study scope and study area.

DISCUSSION: **ACTION BY:**

1. SB introduced the project, followed by a roundtable introduction of all present.

2. RVA presented a PowerPoint presentation of the project, including project overview, study area, key issues and proposed timelines.

3. Project Overview:
   - Study area: Regional Road (RR) 50 from Mayfield Road to Healey Road
   - Stormwater management / drainage / LID improvements
   - Active transportation (multi-use path) improvements
   - Schedule 'B' Class Environmental Assessment and 30% Preliminary Design
   - Two (2) Public Information Centres planned
   - Liaison with technical agencies throughout the project

4. Estimated Project Timeline:
   - PIC #1: Spring 2020
   - PIC #2: Winter 2020
   - Project File Report: April 2021

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DISCUSSION: **ACTION BY:**

- Project Completion: Summer 2021

5. Study Area:

- Village of Bolton in the Town of Caledon
- Four (4) lane urbanized road with centre left turn lanes
- Drainage consists of combination of roadside ditches and sewers
- 2017 Condition Assessment determined 17 culverts are close to failing or have already failed
- Active Transportation improvements are required along the corridor
- Multiple utilities and underground infrastructure throughout the project limits
- Many ongoing and future projects within and near the study area
- Numerous businesses along the corridor, where access needs to be maintained

6. Key Issues:

- Main issue is the failing culverts and required stormwater management improvements
- Lots of turning movements in the study area
- Busy road, with many accesses to local businesses
- Consultation and feedback from businesses will be important
- Trucks are banned in north Bolton (downtown core), leading to heavy truck traffic in the study area
- Utilities and underground services throughout the area, including but not limited to Bell, Gas, and sanitary trunk sewer

7. Ongoing and Future Projects:

- The study should consider all ongoing and future improvements to the area
- RVA/Town to coordinate with the Region, TRCA, and other agencies
- RVA is in the design phase of RR50 and Mayfield Road intersection improvements; Peter Cho is the PM for that project
- Within the next five (5) years a new road connecting Albion Vaughan Road to George Bolton Parkway will be constructed. The project is currently in the 30-60% design phase; Town of Caledon to provide drawings of the design. — Town
- No planned water or wastewater projects, but discussions of new sanitary sewer on west side of RR50 from George Bolton Parkway to McEwan Drive; there is no timeline for this project.
- Replacement of bridge / overpass over the train tracks, north of the study limits

8. Drainage Issues and Improvements

- TRCA will be heavily involved in the drainage improvements, especially since the creek is running alongside the road and the ditches drain directly into the creek; RVA to have discussions with TRCA early in the process. — RVA

DISCUSSION: **ACTION BY:**

- Creek is a direct fish habitat and the condition must be maintained
- Creek and ditches flow to the RR50 and Mayfield Road intersection; PC discussed current and future flows in the area
- PC mentioned that the creek stays on the east side of RR50 and does not cross RR50 as shown on Google Maps
- TRCA is to confirm with an ecologist if the west side of the road is considered a creek or watercourse — TRCA
- RVA's subconsultant, Matrix, will be inspecting flows throughout the study area

9. Bridge / Overpass Replacement

- West side of the bridge is new and will not be upgraded. East side of the bridge is in poor condition and will be replaced in the coming years
- Active transportation is needed along the bridge; consideration for adding it to the east side during bridge replacement should be considered
- Existing sidewalk on west side of the bridge will not be upgraded

10. Active Transportation (AT)

- Transportation Master Plan recommends cycle tracks, but due to limited space available in the right-of-way, Multi-Use Path (MUP) will also be considered
- Existing AT is a combination of sidewalks on the east and west side of the road, requires users to cross at road intersections
- Region only wants AT on one side of the road, due to the limited space available
- Region proposed to start the AT on the east side of the road and cross at the McEwan intersection and continue along the west side of the road to Mayfield Road
- Multiple considerations will be investigated to determine the best way to connect the AT along the entire corridor

11. Cycle Track vs MUP

- Region to provide RVA the Bolton Plan Report recommending a cycling track — Region
- Lack of available space may not allow for a cycle track and sidewalk in right-of-way
- RVA to include cycle tracks as an alternative but current preference is for MUP
- Few utilitarian cyclists observed in study area, corridor is used primarily for destination / recreational cycling

12. Roadway

- No widening or change in cross section
- No current plan for asphalt work in the next five (5) years

DISCUSSION: **ACTION BY:**

- Region says the road surface is in poor condition and replacement should be considered
- There has been minimal work, only required maintenance on road, since the Region took ownership in the late 1990's.

13. Transportation and Traffic Signals

- Traffic signals at some intersections will require upgrades
- Intersections are missing islands, traffic poles, etc.
- It is assumed George Bolton Parkway intersection will be upgraded as part of the extension from RR50 to Albion Vaughan Road

14. Watercourses and Flows

- Investigation is required to determine if the flows will increase; culvert sizes may need to be increased if flows increase
- Existing pond at George Bolton Parkway intersection will require investigation; pond is located on Ontario Provincial Police Training Facility and has a long lead time to gain access
- Town of Caledon has a contact from a previous project, RVA to obtain contact from Town of Caledon — RVA

15. Private Property and Real Estate

- Need to determine early if access to private land is required
- Entry to private lands can have a long lead time of 4-6 months
- Matrix will require access to private properties to investigate the creek and perform a survey
- RVA to inform the Region of the properties they will need to access — RVA
- Region to obtain necessary permits
- RVA will work with real estate / property team to obtain necessary permits

16. Other:

- Coordinate with the water and wastewater department, as there are major systems below ground that cannot be moved or adjusted; water and wastewater was added to the utility list
- Construction of AT is usually on the same side / similar location of any Low Impact Developments to save excavation time and cost

17. Next Steps:

- RVA is currently establishing subcontractor agreements
- Notice of Study Commencement and Notice of Public Information Centre will be sent out together in the 1st Quarter of 2020
- RVA to inform the Region if additional information / data is required; RVA will request drawings and information on ongoing design work in the area. — RVA
- TRCA is to confirm if the model from the RR50 and Mayfield Road intersection improvements project is the most up to date version — TRCA
- RVA to inform TRCA of any geotechnical work being performed — RVA

DISCUSSION: **ACTION BY:**

- Region installed flow monitors along the corridor and will provide RVA with the data — Region
- Region to confirm if any sanitary sewer work will occur in the study area in the foreseeable future — Region

Minutes prepared by: T. Young

Distribution: All Attendees

PLEASE ADVISE THE WRITER OF ANY ERRORS OR OMISSIONS WITHIN 1 WEEK OF RECEIPT OF THESE MINUTES

From: FPP.CA / PPP.CA (DFO/MPO) <fisheriesprotection@dfo-mpo.gc.ca>
Sent: June 25, 2020 4:18 PM
To: Courtney Row
Subject: Automatic reply: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

This e-mail is a confirmation of receipt for your submission. Thank you for contacting Fisheries and Oceans Canada, Fish and Fish Habitat Protection Program.

Please note that we are currently receiving a higher than normal volume of submissions and inquiries and continue to operate under alternate work arrangements.

We will respond to your email as soon as possible. Thank you for your patience.

Le présent courriel est un accusé de réception de votre soumission. Merci d'avoir communiqué avec le Programme de protection poisson et de son habitat des pêches de Pêches et Océans Canada.

Veuillez noter que nous recevons actuellement un volume de soumissions et de demandes de renseignements supérieur à la normale, et nous continuons de travailler selon des modalités de travail modifiées.

Nous répondrons à votre e-mail dès que possible. Merci de votre patience.

From: EA Notices to CRegion (MECP) <eanotification.cregion@ontario.ca>
Sent: June 25, 2020 4:20 PM
To: Courtney Row
Subject: Automatic reply: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

This is to acknowledge your email has been delivered to the Regional email account. A Regional EA Coordinator will contact you if additional information is needed. To speak directly to a Regional EA Coordinator, go to the INFO-GO website and under our ministry, select: 1) Drinking Water and Environmental Compliance Division 2) applicable Regional Office 3) Technical Support Section 4) Air, Pesticides, and Environmental Planning 5) Environmental Resource Planner & EA Coordinator

Region of Peel
working with you

From: Environmental Permissions (MECP) <enviropermissions@ontario.ca>
Sent: June 26, 2020 12:36 PM
To: Courtney Row
Cc: Andrew McGregor; Banuri, Syeda; Environmental Permissions (MECP)
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Categories: Filed by Newforma

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hello Courtney,

Thank you for your email to the Ministry of Environment, Conservation and Parks (MECP).

This is to confirm receipt of your Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

If you have further questions or concerns, please respond to this email or contact us by phone at 416-314-8001 or 1-800-461-6290 (toll free).

Kind Regards,

Vani Manoharan (on behalf of Environmental Permissions)
Client Service Representative
Client Services & Permissions Branch (CSPB)
Ministry of the Environment, Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, ON M4V 1P5
Phone Number: 416-314-8001

If you have any accommodation needs or require communication supports or alternate formats, please let me know.
Si vous avez des besoins en matière d'adaptation, ou si vous nécessitez des aides à la communication ou des médias substituts, veuillez me le faire savoir.

From: Courtney Row <CRow@rvanderson.com>
Sent: June 25, 2020 4:18 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

From: Ellis Nsiah, Andrea (MNRF) <Andrea.EllisNsiah@ontario.ca>
Sent: June 26, 2020 10:11 PM
To: Courtney Row
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hello,
I believe I was sent this information in error.

Andrea Ellis Nsiah
Acting District Planner
Timmins District Ministry of Natural Resources & Forestry
Ontario Government Complex
5520 Hwy 101 E, PO Bag 3090
South Porcupine, ON P0N 1H0

Email: Andrea.EllisNsiah@ontario.ca

From: Courtney Row <CRow@rvanderson.com>
Sent: June 26, 2020 1:01 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

To address this, the study will consider:

- Best Industry Practices
- Climate Change Requirements
- Existing and Future Regulatory Requirements

In developing recommendations, all reasonable alternatives will be considered to minimize impact on adjacent businesses and the surrounding environment.

From: Eckert, Anneleis (OMAFRA) <Anneleis.Eckert@ontario.ca>
Sent: June 26, 2020 1:02 PM
To: Courtney Row
Subject: Automatic reply: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Thank you for your email. I am currently out of the office without access to phone or email. I will respond to your email, in sequence, as soon as I can starting July 7th 2020.

If you require immediate assistance, please contact the Dave Marriott at david.marriott@ontario.ca.

Thank you,

Anneleis Eckert

Rural Planner

From: [redacted]
Sent: June 26, 2020 1:14 PM
To: Courtney Row
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi Courtney,

You must have sent this to me by error.

Have a Blessed Day,
Stop the spread. Don't put others at risk



Agnes Benko, Administrative Coordinator
Ministry of Municipal Affairs and Housing
Municipal Services Division
Municipal Services Office – Central Branch
777 Bay Street, Floor 13, Toronto, ON M7A 2J3
Email: [redacted]@ontario.ca [redacted]

From: Courtney Row <CRow@rvanderson.com>
Sent: June 26, 2020 1:01 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the

From: Environmental Permissions (MECP) <enviropermissions@ontario.ca>
Sent: June 26, 2020 12:36 PM
To: Courtney Row
Cc: Andrew McGregor; Banuri, Syeda; Environmental Permissions (MECP)
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Categories: Filed by Newforma

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hello Courtney,

Thank you for your email to the Ministry of Environment, Conservation and Parks (MECP).

This is to confirm receipt of your Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

If you have further questions or concerns, please respond to this email or contact us by phone at 416-314-8001 or 1-800-461-6290 (toll free).

Kind Regards,

Vani Manoharan (on behalf of Environmental Permissions)
Client Service Representative
Client Services & Permissions Branch (CSPB)
Ministry of the Environment, Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, ON M4V 1P5
Phone Number: 416-314-8001

If you have any accommodation needs or require communication supports or alternate formats, please let me know.
Si vous avez des besoins en matière d'adaptation, ou si vous nécessitez des aides à la communication ou des médias substituts, veuillez me le faire savoir.

From: Courtney Row <CRow@rvanderson.com>
Sent: June 25, 2020 4:18 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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From: Eplett, Megan (MECP) <Megan.Eplett@ontario.ca>
Sent: July 21, 2020 1:25 PM
To: Courtney Row
Cc: Andrew McGregor; Banuri, Syeda
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Categories: Filed by Newforma

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Hello Courtney,

I have reviewed our species at risk records within the project area and MECP has records of Bobolink, Eastern Meadowlark, Barn Swallow and Wood Thrush within the vicinity of the project area.

As the works are mostly contained within the existing right of way I do not anticipate many species at risk concerns. If throughout the field studies any species at risk or their habitats are confirmed present MECP can provide further advice.

Please continue to keep MECP informed as the EA progresses.

Thank you,

Megan

Megan Eplett | Management Biologist | Permissions and Compliance | Species at Risk Branch | Ontario Ministry of Environment, Conservation and Parks
50 Bloomington Road, Aurora, Ontario, L4G 0L8 | Phone: 289-221-1794 |
Email: megan.eplett@ontario.ca

From: Courtney Row <CRow@rvanderson.com>
Sent: Thursday, June 25, 2020 4:18 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the

Sent:	August 10, 2020 11:50 AM
To:	Courtney Row
Cc:	Banuri, Syeda; kslocki@archeoworks.com; Andrew McGregor
Subject:	Region of Peel Highway 50 Drainage Improvements EA - Stage 1 Archeological Assessment
Attachments:	DRAFT P1059-0068-2020_29July2020_RE_St1_Drainage Improvements on Regional Road Highway 50(5).pdf
Categories:	Filed by Newforma

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Stage 1 Archeological Assessment for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

The intent of this email is to provide an opportunity to comment on the attached document. Please note full archaeological clearance has been recommended.

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration. Further information will also be posted on the study website (link below) as the study progresses.

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

Please respond with your comments or any questions by directly responding to this email.

Miigwech,

RVA IS GROWING!

Our NEW Halton and Halifax offices are now open.

Courtney Row
Field/GIS Technician (Trenchless)

P: (416) 497-8600 ext. 1372
C: (647) 285-9020

R.V. Anderson Associates Limited
2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8

rvanderson.com

RVA celebrates the summer season from June 26th to September 4th. Our offices will be closed at 2 pm each Friday.

From:	Courtney Row
Sent:	August 21, 2020 3:14 PM
To:	eanotification.cregion@ontario.ca
Cc:	Banuri, Syeda; 'Andrew McGregor'
Subject:	Peel Region, MEA Class EA, Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road
Attachments:	streamlined_ea_project_information_form_RR50EA.xlsx; ROP Hwy 50 Drainage Improvements EA-Notice of Commencement.pdf

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Streamlined Project Information Form and Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

To address this, the study will consider:

- Best Industry Practices
- Climate Change Requirements
- Existing and Future Regulatory Requirements

In developing recommendations, all reasonable alternatives will be considered to minimize impact on adjacent businesses and the surrounding environment.

The intent of this email is to introduce you to the project and to request any relevant background information from you as it relates to the study area. Information that would be of interest includes:

- Contact information and the identification of individuals that represent your agency or group that we should include as a primary contact throughout the study process;
- Description of the existing conditions or sensitivities within the study area as they relate to your interests; and
- Specific issues, concerns and/or expectations that your agency, community or group may have.

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration. Information will also be posted on the study website (link below) as the study progresses.

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

Please respond with your comments or any questions by directly contacting the Project Manager, Syeda Banuri, listed on the attached notice.

Regards,

From: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>
Sent: August 24, 2020 3:02 PM
To: Courtney Row
Cc: Banuri, Syeda; Andrew McGregor
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Categories: Filed by Newforma

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi Courtney, no problem at all!

Thanks!

From: Courtney Row <CRow@rvanderson.com>
Sent: August 21, 2020 3:17 PM
To: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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Hello Trevor,

Thank you very much for the reminder and instrcutions. Please accept my apologies for the delayed response. The appropriate documentation has been sent to the address you provided.

Thank you again and have a wonderful weekend!

Sincerely,

From: EA Notices to CRegion (MECP) <eanotification.cregion@ontario.ca>
Sent: August 4, 2020 2:36 PM
To: Courtney Row <CRow@rvanderson.com>
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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Hi Courtney,

Just a friendly reminder that we also need the completed Project Information Form for this project sent to this address.

I have included the relevant information below.

Thanks,
Trevor

Trevor Bell | Environmental Planner/Environmental Assessment Coordinator
Project Review Unit, Environmental Assessment and Permissions Branch
Ministry of the Environment, Conservation and Parks
5775 Yonge Street, 8th floor, Toronto ON, M2M 4J1
Phone: 437-770-3731 | trevor.bell@ontario.ca

Dear Project Team,

Thank you for your email. I would like to inform you of a new process related to providing Class EA notifications to the Ministry of the Environment and Climate Change that is in effect as of **May 1, 2018.** The information is below. Please read carefully.

Please follow the new process and submit an electronic version of the Notice and completed Project Information Form to the Central Region email (eanotification.cregion@ontario.ca). All Notices of commencement and completion are to follow the new process. If you have any questions, please feel free to contact me. Please feel free to pass along this information to your colleagues. Thank you.

New Notification Procedure:
The Ministry of the Environment and Climate Change becomes aware of streamlined environmental assessments (e.g., class environmental assessment projects, electricity projects and waste management projects) through notifications by project owners. Notifying the ministry is an important step in the streamlined environmental assessment processes. As part of the ministry's ongoing efforts to improve processes and ensure the ministry has an opportunity to provide input on projects undergoing streamlined environmental assessments, the ministry has established dedicated email accounts in each regional office. These accounts will be used to receive notices as required in your class environmental assessment process along with a new "Project Information Form". As of May 1, 2018, proponents must use this new process.

4 Step Process for Submitting Notices for Streamlined EAs
To submit your notice you need to do the following:

1. **Download and complete the Project Information Form.** (The Form can be found here under "Streamlined EAs". It is an excel spreadsheet with columns that need to be filled out by the proponent. The form has been developed for ease of use (i.e. drop down pick list for most fields). Instructions on filling out the form are contained in 2 tabs within the form itself).

2. **Create an email. The subject line of your email must include in this order: project location, type of streamlined EA and project name**

   For example:

   - York Region, MEA Class EA, Elgin Mills Rd East (Bayview to Woodbine)
   - Durham Region, Electricity Screening Process, New Cogeneration Station
   - City of Ottawa, Waste Management Screening Process, Landfill Expansion

3. **Attach the completed Project Information Form (in excel format) and a copy of your project notice (in PDF format) to the email.**

4. **Send by email to the appropriate ministry regional office:**

   Central Region – eanotification.cregion@ontario.ca

   Eastern Region – eanotification.eregion@ontario.ca

   Northern Region – eanotification.nregion@ontario.ca

   South West Region – eanotification.swregion@ontario.ca

   West Central Region – eanotification.wcregion@ontario.ca

Notes:

- The hyperlink to the MOECC District Officer Locator website, can be used to assist with determining what ministry region your project is located.
- The minimum requirement is to send project initiation and completion notices (and where applicable, Revised Notice of Completion, Notice of Filing of Addendum, Statement of Completion). All other notices (e.g. Notice of PIC/OH) can be sent to the Regional email address but not required.
- If your project is located in more than one ministry region, you need to submit your notices to all appropriate regions.

- You must continue to meet other notification requirements (e.g. Notice of Completion required to be sent to MEA.Notices.EAAB@ontario.ca).

From: Courtney Row <CRow@rvanderson.com>
Sent: June 25, 2020 4:18 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

To address this, the study will consider:

- Best Industry Practices
- Climate Change Requirements
- Existing and Future Regulatory Requirements

Region of Peel
working with you

From: Species at Risk (MECP) <SAROntario@ontario.ca>
Sent: August 19, 2022 4:11 PM
To: Courtney Row
Subject: Automatic reply: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Thank you for your inquiry to the Permissions and Compliance team, Species at Risk Branch, Ministry of the Environment, Conservation and Parks.

What's New?

- The Ministry of the Environment, Conservation and Parks (MECP) has responsibility for the administration of the Ontario Endangered Species Act (ESA). In MECP, work associated with ESA authorizations has been centralized from Ministry of Natural Resources and Forestry district offices into one Permissions and Compliance team within the new Species at Risk Branch in MECP.

What Next?

- Your email is being reviewed by branch staff to determine the nature of your inquiry or submission. Your inquiry or submission will then be actioned to someone from our team for follow up as required.
- We strive to follow up with a response to your inquiry within 100 business days.

Do you think you may need an ESA permit or authorization?

- Please visit https://www.ontario.ca/page/species-risk to learn more about protecting and recovering species at risk, then navigate to the Resources and Permits section, including Register or Get a Permit for more information about permits and authorizations under the ESA.
- You only need an authorization under the ESA (e.g. a permit or other type of authorization) if your work is going to contravene the ESA (e.g. if the activity you are proposing is going to kill, harm or harass a species at risk or damage or destroy their habitat). If you are able to undertake your work in a manner that does not contravene the ESA, that is what we call "avoidance" of impacts to species at risk or their habitat and it is the ideal scenario for clients and the species-the species aren't adversely impacted, and you don't need an authorization.

Do you want to know if any species at risk are at, or near, your project site? Do you need help determining if you need an ESA permit or authorization?

- We have developed a guide to help clients work through the preliminary screening process, including providing advice to clients on how they can gather information you have requested from publicly available information sources. The guide provides advice on how you can determine if any species at risk are likely to exist at your site. If you are seeking information regarding species at risk likely to occur at or near your site, please send an email to sarontario@ontario.ca and include "request for preliminary screening guide" in the subject line.To provide the most efficient service, it is recommended clients read this guide and

explore applicable information sources prior to contacting sarontario@ontario.ca to begin discussions with the Permissions and Compliance team about your proposed project.

Do you want to report a suspected violation of the ESA?

- Please call the MECP Tips/Pollution Hotline at 1-866-663-8477 and provide the details requested. Someone may follow up with you directly to request additional information. We may not be able to follow up with you to provide you an update on the status of your tip as the status of any ongoing inspections or investigations is confidential until resolved.

We also receive a high volume of inquiries related to Butternut (an endangered tree) to this email address. The following information can assist you if you have some of the more common questions regarding the ESA and impacts to Butternut.

Do you think you may need an ESA permit or authorization to cut down a Butternut tree?

1. If a Butternut tree has been identified, a Butternut Health Assessment will need to be completed to assess the health of the tree in accordance with the document titled Butternut Assessment Guidelines: Assessment of Butternut Tree Health for the Purposes of the Endangered Species Act, 2007. This will determine if the tree is Category 1, 2 or 3.
2. Please note that Section 4.2 (Timing of Assessment) on page 10 of the Butternut Assessment Guidelines states that "A complete and accurate assessment of a Butternut tree can only be conducted during the leaf-on season." It also notes that "For the purposes of the ESA, an assessment will be considered to have been conducted during the leaf-on season if it was conducted between the dates of May 15 and August 31." For this reason, a Butternut Health Assessment should not be conducted until May 15 in order to get an accurate assessment of the live crown.

3. Once a Butternut Health Assessment has been completed and submitted to the Ministry of Environment, Conservation and Parks (MECP) and 30 days have elapsed, ESA requirements can be identified as per below:

- If a BHA identifies a tree as a hybrid, no authorization under the ESA is required to remove the tree, as it is not a pure Butternut and not protected under the ESA.
- If a BHA identifies a tree as a Category 1 tree, no authorization under the ESA is required to remove the tree, as it is affected by Butternut canker (a fungal disease) to such an advanced degree that retaining the tree would not support the protection or recovery of Butternuts in the area.
- If a BHA identifies a tree as a Category 2 or 3 tree, registration is enabled under Part V of Ontario Regulation 830/21 so long as all requirements of the Regulation are met.
- Please note there is a maximum number (see below) of trees which can be removed under this regulation. If the maximum number of trees is exceed then a 17(2)(c) Permit will likely be required.

If the proponent is proposing to rely on section 25 of the Regulation 830/21 for the removal of Category 1 trees or hybrids, please note that that the proponent is eligible to do so 30 days after they have submitted your BHA to MECP at SAROntario@ontario.ca unless the MECP has indicated otherwise prior to the end of the 30 day period.

If the proponent is proposing to rely on section 26 of the Regulation 830/21 for the removal of a maximum of 15 Category 2 or a maximum of 5 Category 3 trees, after the 30 days then the proponent must register a Notice of Impact with the ESA Registry, and follow additional rules. Once

they have registered and received a reply in regards to your Notice of Impact, you may remove the trees.

Are you submitting a Butternut Health Assessment?

1. Please submit your Butternut Health Assessment Forms to sarontario@ontario.ca. In the subject line, clearly indicate that the email contains a BHA and the municipality within which the BHA was conducted. Once received, the submission will be triaged and actioned.

Did you recently see a species at risk?

- Please visit https://www.ontario.ca/page/report-rare-species-animals-and-plants for information on how to report a species at risk sighting.

Would you like to learn more about species at risk and the ESA and its related policies?

- Please visit https://www.ontario.ca/page/species-risk.
- Policies under the ESA, ministry-endorsed survey protocols and a number of best-management practices related to how you can avoid or minimize impacts to species at risk can be found online at https://www.ontario.ca/page/species-risk-guides-and-resources.
- General inquires related to the ESA or species at risk can be directed to SAROntario@ontario.ca

From: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>
Sent: August 18, 2022 3:07 PM
To: Banuri, Syeda; Courtney Row
Cc: Andrew McGregor
Subject: RE: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

Categories: Filed by Newforma

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Thank you very much!

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: August 18, 2022 2:54 PM
To: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>; crow@rvanderson.com
Cc: Andrew McGregor <AMcGregor@rvanderson.com>
Subject: Re: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

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Hi Trevor,
Thanks for letting us know. It's ok. You can provide the comments by September 2.
Regards,
Syeda

Get Outlook for iOS

From: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>
Sent: Thursday, August 18, 2022 2:24 PM
To: crow@rvanderson.com <crow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

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Good afternoon,

Our technical reviewers have indicated that they are unable to complete their review of this project by August 26, and have asked me to request a one week extension.

Can you let me know if a September 2 deadline is acceptable to you?

Region of Peel
working with you

Thanks,
Trevor

Trevor Bell | Regional Environmental Planner
Project Review Unit, Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
5775 Yonge Street, 8th floor, Toronto ON, M2M 4J1
New Phone: 437-770-3731 | trevor.bell@ontario.ca

From: Courtney Row <crow@rvanderson.com>
Sent: July 29, 2022 6:17 PM
To: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>
Subject: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

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Project: 194615 **Regional Road 50 EA**

Region of Peel
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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: August 31, 2022 12:56 PM
To: Bell, Trevor (MECP)
Cc: Potter, Katy (MECP); Dufresne, Tina (MECP); Yang, Zhiping (MECP); Andrew McGregor; Courtney Row
Subject: RE: Drainage Improvements for Highway 50 from Mayfield Road to Healey Road - Schedule B Municipal Class EA

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Hi Trevor,
Thanks for your comments. The project team will review and consider them in the Final PFR. If there are any questions or need for discussion, we'll be in touch.
Regards,

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>
Sent: August 31, 2022 12:42 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Potter, Katy (MECP) <Katy.Potter@ontario.ca>; Dufresne, Tina (MECP) <Tina.Dufresne@ontario.ca>; Yang, Zhiping (MECP) <Zhiping.Yang@ontario.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; crow@rvanderson.com
Subject: Drainage Improvements for Highway 50 from Mayfield Road to Healey Road - Schedule B Municipal Class EA

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Good afternoon,

Please find attached a letter from the Ministry of the Environment, Conservation and Parks, Environmental Approvals Branch, regarding the above mentioned project. Feel free to contact me directly with any questions or concerns you may have.

Sincerely,

Trevor Bell | Regional Environmental Planner
Project Review Unit, Environmental Assessment Branch

Region of Peel
working with you

Ministry of the Environment, Conservation and Parks

Environmental Assessment Branch

1st Floor
135 St. Clair Avenue W
Toronto ON M4V 1P5
Tel.: 416 314-8001
Fax.: 416 314-8452

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Direction des évaluations environnementales

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto ON M4V 1P5
Tél. : 416 314-8001
Téléc. : 416 314-8452

August 31, 2022

Syeda Banuri
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
Region of Peel
syeda.banuri@peelregion.ca

BY EMAIL ONLY

Re: **Drainage Improvements for Highway 50 from Mayfield Road to Healey Road in the Town of Caledon**
Region of Peel
Schedule B Municipal Class Environmental Assessment
Draft Project File Report

Dear Ms. Banuri,

The Ministry of the Environment, Conservation and Parks (ministry) has reviewed the draft Project File Report (report) prepared by R.V. Anderson Associates Ltd., dated July 26, 2022, for the Schedule B Municipal Class Environmental Assessment for Drainage Improvements for Highway 50 from Mayfield Road to Healey Road in the Town of Caledon.

The project aims to address failing drainage ditches and culverts identified to be at the end of their service life and improve stormwater management (SWM) and active transportation (AT) infrastructure along the corridor. We understand that the preferred SWM solutions include Culvert Replacements and Sewer Upgrades (Full Replacement), Bioretention Facilities, Oil Grit Separator (OGS) Units, Infiltration Trenches, and Catch Basin Shields. The preferred AT solution is to install a Multi-Use Path along the west side of the corridor and a new sidewalk on the east side.

The following comments are offered for your consideration:

Surface Water Comments

1. As the project includes construction of a Multi-Use Pathway and sidewalk, it is recommended that the proposed SWM plan include information on increased impervious surfaces from those areas and consider whether the proposed SWM plan is to provide sufficient protection to the receiver water quality. Our general expectation is that the proposed SWM plan should be designed to meet the ministry's enhanced water quality control (i.e., 80% TSS removal).

   The increase in impervious area relative to the overall watershed is negligible and no increase in peak flow is expected as a result of the proposed multiuse path and sidewalk. Enhanced quality treatment is not achievable due to corridor constraints from existing utilities and Right-of-Way limits. 60% TSS removal is proposed to achieve Basic quality level treatment using CB shields and OGS units. These units will provide 75% TSS removal, but due to the fact that it may not be feasible to install OGS units project wide, 60% TSS removal is the proposed target.

2. There is a discrepancy between the main report and the SWM report on water quality control objectives: the main report states the SWM will be designed for 60% TSS removal while the SWM report indicates a treatment level of 50% TSS removal. A clarification is required. Please also clarify how the proposed TSS removal level will be achieved for the whole project area and what capacity of the OGSs will be installed as compared to the designed stormwater water peak flow.

   60% TSS removal is proposed to achieve Basic quality level treatment using CB shields and OGS units. These units will provide 75% TSS removal, but due to the fact that it may not be feasible to install OGS units project wide, 60% TSS removal is the proposed target.

3. It is recommended that during detailed design, the proposed SWM facilities be revisited and designed based on the ministry's SWM design guide documents including MECP "Stormwater Management Planning and Design Manual (2003)" and MECP "Low Impact Development (LID) Stormwater Management Guidance Manual (Draft)".

   Additional details regarding specific locations for CB shields and specific OGS units types will be designed during the detailed design phase.

4. It is noted that Table 2.1 of the SWM report lists 30 culverts that require improvements. The report also indicates that RVA identified 23 deficient culverts within the corridor. Please clarify how many culverts in total are to be updated/replaced in the proposed SWM plan, along with a summary table listing the existing and proposed culvert size, as well as a map to show those culvert locations.

   Report will be updated.

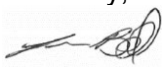
5. Page 25 of the SWM report states "Further flow measurements during observed rainfall events in 2021 were undertaken to relate measured flows and try to upscale and compare them to the current predicted peak flows, since it is observed that the predicted peak flows might be excessive and overpredict current conditions." In this regard, it would be helpful if the report can provide a comparison between the measured flow and predicted flow; discuss the model overestimations under different design scenarios; and determine whether further model refining will be required/conducted during the detailed design to update the current hydraulic assessment.

   Report will be updated to include this information.

6. Finally, it is acknowledged that Section 8.3 of the main report outlines the potential requirement for a Permit to Take Water (PTTW) for construction dewatering purpose. Please also be advised a hydrogeological/technical assessment report is required to support the PTTW application. In terms of surface water aspects, the supporting document should include, but not be limited to, an impact assessment of the proposed dewatering activity on surface water features nearby, an assessment of local groundwater quality, and a dewatering effluent discharge monitoring and contingency plan. As such, further review by the ministry during the PTTW application will be required.

Thank you for the opportunity to review the report. Please feel free to contact me directly at (437) 770-3731 or trevor.bell@ontario.ca with any questions you may have.

Sincerely,



Trevor Bell

Region of Peel
working with you

Regional Environmental Planner
Project Review Unit

Cc: Katy Potter, Supervisor (A), Project Review Unit, EAB, MECP
Tina Dufresne, Manager, Halton-Peel District Office, MECP
Zhiping Yang, Surface Water Specialist
Andrew McGregor, Senior Planner, R.V. Anderson Associates Ltd.
Courtney Row, Field/GIS Technician, R.V. Anderson Associates Ltd.

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: July 20, 2020 11:11 AM
To: Harvey, Joseph (MHSTCI)
Cc: Minkin, Dan (MHSTCI); Barboza, Karla (MHSTCI); Courtney Row; Andrew McGregor
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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Hi Joseph,
Thanks for your response. Our project team will review the comments and will be further in touch with Dan.
Regards,

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Harvey, Joseph (MHSTCI) <Joseph.Harvey@ontario.ca>
Sent: July 17, 2020 4:02 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Minkin, Dan (MHSTCI) <Dan.Minkin@ontario.ca>; Barboza, Karla (MHSTCI) <Karla.Barboza@ontario.ca>; CRow@rvanderson.com; AMcGregor@rvanderson.com
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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Syeda Banuri,

Please find attached MHSTCI's comments for the above referenced project. Contact Dan Minkin with any further questions or concerns.

Joseph Harvey
On behalf of

Dan Minkin
Heritage Planner
Heritage Planning Unit
Dan.Minkin@ontario.ca

Region of Peel
working with you

Ministry of Heritage, Sport, Tourism and Culture Industries

Programs and Services Branch
401 Bay Street, Suite 1700
Toronto, ON M7A 0A7
Tel: 416.314.7147

Ministère des Industries du Patrimoine, du Sport, du Tourisme et de la Culture

Direction des programmes et des services
401, rue Bay, Bureau 1700
Toronto, ON M7A 0A7
Tél: 416.314.7147

Ontario

July 17, 2020 EMAIL ONLY

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure
Region of Peel
10 Peel Centre Drive, Suite B, Flr 4
Brampton, ON L6T 4B9
syeda.banuri@peelregion.ca

MHSTCI File	**:**	**0012702**
Proponent	**:**	**The Region of Peel**
Subject	**:**	**Notice of Commencement – Municipal Class EA**
Project	**:**	**Highway 50 Drainage Improvements**
Location	**:**	**Town of Caledon, Region of Peel**

Dear Andrew McGregor:

Thank you for providing the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) with the Notice of Commencement for the above-referenced project. MHSTCI's interest in this Environmental Assessment (EA) project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- Archaeological resources, including land and marine;
- Built heritage resources, including bridges and monuments; and,
- Cultural heritage landscapes.

Under the EA process, the proponent is required to determine a project's potential impact on cultural heritage resources.

Project Summary
The Region of Peel has initiated a Schedule "B" Municipal Class Environmental Assessment (Class EA) study for the drainage improvements of Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon.

Identifying Cultural Heritage Resources
While some cultural heritage resources may have already been formally identified, others may be identified through screening and evaluation. Indigenous communities may have knowledge that can contribute to the identification of cultural heritage resources, and we suggest that any engagement with Indigenous communities includes a discussion about known or potential cultural heritage resources that are of value to these communities. Municipal Heritage Committees, historical societies and other local heritage organizations may also have knowledge that contributes to the identification of cultural heritage resources.

Region of Peel
working with you

Archaeological Resources
This EA project may impact archaeological resources and should be screened using the MHSTCI *Criteria for Evaluating Archaeological Potential* to determine if an archaeological assessment is needed. MHSTCI archaeological sites data are available at *archaeology@ontario.ca*. If the EA project area exhibits archaeological potential, then an archaeological assessment (AA) should be undertaken by an archaeologist licenced under the *OHA*, who is responsible for submitting the report directly to MHSTCI for review.

Built Heritage and Cultural Heritage Landscapes
The MHSTCI *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes* should be completed to help determine whether this EA project may impact cultural heritage resources. If potential or known heritage resources exist, MHSTCI recommends that a Heritage Impact Assessment (HIA), prepared by a qualified consultant, should be completed to assess potential project impacts. Our Ministry's *Info Sheet #5: Heritage Impact Assessments and Conservation Plans* outlines the scope of HIAs. Please send the HIA to MHSTCI for review, and make it available to local organizations or individuals who have expressed interest in review.

Environmental Assessment Reporting
All technical cultural heritage studies and their recommendations are to be addressed and incorporated into EA projects. Please advise MHSTCI whether any technical cultural heritage studies will be completed for this EA project, and provide them to MHSTCI before issuing a Notice of Completion or commencing any work on the site. If screening has identified no known or potential cultural heritage resources, or no impacts to these resources, please include the completed checklists and supporting documentation in the EA report or file.

Thank you for consulting MHSTCI on this project and please continue to do so throughout the EA process. If you have any questions or require clarification, do not hesitate to contact Dan Minkin.

Sincerely,

Joseph Harvey
On behalf of

Dan Minkin
Heritage Planner
Heritage Planning Unit
Dan.Minkin@ontario.ca

Copied to: Andrew McGregor, Senior Planner, R.V. Anderson Associates Ltd.
Courtney Row, Field/GIS Technician, R.V. Anderson Associates Ltd.

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. MHSTCI makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MHSTCI be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Please notify MHSTCI if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the *Ontario Heritage Act* and the *Standards and Guidelines for Consultant Archaeologists*.

If human remains are encountered, all activities must cease immediately and the local police as well as the Registrar, Burials of the Ministry of Government and Consumer Services (416-326-8800) must be contacted. In situations where human remains are associated with archaeological resources, MHSTCI should also be notified to ensure that the site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.

From: Barboza, Karla (MHSTCI) <Karla.Barboza@ontario.ca>
Sent: July 6, 2022 3:48 PM
To: Connor MacIsaac <cmacIsaac@rvanderson.com>
Cc: Minkin, Dan (MHSTCI) <dan.minkin@ontario.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>; Courtney Row <CRow@rvanderson.com>; Andrew McGregor <AMcGregor@rvanderson.com>; kslocki@archeoworks.com; Harvey, Joseph (MHSTCI) <Joseph.Harvey@ontario.ca>
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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Hi Connor,

Thanks for sending the Cultural Heritage Assessment for the Highway 50 Drainage Improvements Project to the Ministry of Tourism, Culture and Sport (MTCS).

Dan Minkin, MTCS Heritage Planner, will review it and provide comments, as appropriate, by August 5. I can also confirm that the Stage 1 archaeological assessment (under Project Information Form number P1059-0068-2020) has been submitted to MTCS and is under review.

Let us know if you have any questions in the meantime.

Thanks,
Karla

Karla Barboza MCIP, RPP, CAHP | (A) Team Lead, Heritage
Ministry of Tourism, Culture and Sport
Heritage, Tourism and Culture Division | Programs and Services Branch | Heritage Planning Unit
T. 416. 660.1027 | Email: karla.barboza@ontario.ca

From: Connor MacIsaac <cmacIsaac@rvanderson.com>
Sent: July-05-22 4:31 PM
To: Harvey, Joseph (MHSTCI) <Joseph.Harvey@ontario.ca>
Cc: Minkin, Dan (MHSTCI) <Dan.Minkin@ontario.ca>; Barboza, Karla (MHSTCI) <Karla.Barboza@ontario.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>; Courtney Row <CRow@rvanderson.com>; Andrew McGregor <AMcGregor@rvanderson.com>; kslocki@archeoworks.com
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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Hi Joseph,

On behalf of the Region of Peel, thank you for your comments on this project. RVA retained Archeoworks Inc. to conduct a Stage 1 Archaeological Assessment and a Cultural Heritage Assessment. As requested, please find attached the draft CHAR report for the project for MHSTCI review and comment as the file exceeds the outgoing message size limit.

Region of Peel Staff have also reviewed the report and their comments have been incorporated in to the attached draft. The report will be finalized upon incorporating any comments from the MHSTCI, if applicable.

Regards, Connor

Connor MacIsaac, ENV SP, EPt
ENVIRONMENTAL PLANNER, EA & APPROVALS

t 905 685 5049 ext. 4218
a 43 Church Street, Suite 104, St. Catharines, ON L2R 7E1

rvanderson.com

SUMMER HOURS: RVA celebrates the summer season from June 3rd to September 2nd. Our offices will be closed each Friday. We will remain available to address any urgent or project related matters.

From: Harvey, Joseph (MHSTCI) <Joseph.Harvey@ontario.ca>
Sent: July 17, 2020 4:02 PM
To: syeda.banuri@peelregion.ca
Cc: Minkin, Dan (MHSTCI) <Dan.Minkin@ontario.ca>; Barboza, Karla (MHSTCI) <Karla.Barboza@ontario.ca>; Courtney Row <CRow@rvanderson.com>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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Syeda Banuri,

Please find attached MHSTCI's comments for the above referenced project. Contact Dan Minkin with any further questions or concerns.

Joseph Harvey
On behalf of

Dan Minkin
Heritage Planner
Heritage Planning Unit
Dan.Minkin@ontario.ca

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Ministry of Tourism, Culture and Sport (MTCS)

Archaeology Program Unit
Programs and Services Branch
Heritage, Tourism and Culture Division
5th Floor, 400 University Ave.
Toronto ON M7A 2R9
Tel.: (416) 414-7787
Email: Jessica.Marr@ontario.ca

Ministère du Tourisme, de la Culture et du Sport (MTCS)

Unité des programme d'archéologie
Direction des programmes et des services
Division du patrimoine, du tourisme et de la culture
5e étage, 400 ave. University
Toronto ON M7A 2R9
Tél. : (416) 414-7787
Email: Jessica.Marr@ontario.ca

Jul 8, 2022

Ian Boyce (P1059)
Archeoworks Inc.
1029 - 16715-12 Yonge Newmarket ON L3X 1X4

RE: Entry into the Ontario Public Register of Archaeological Reports: Archaeological Assessment Report Entitled, "Stage 1 AA for the Drainage Improvements of Highway 50 (RR 50/Queen Str. S.) From Mayfield Rd/Albion Vaughan Rd to Healey Rd Municipal Class Environmental Assessment Within Pt. of L.1-5, Con.6-7; L.17, Con.12 Northeastern Division (NERN DIV); and L.29, Con.11 &Road Allowances In Between In the Geo. Twp of Albion, Toronto Gore and Vaughan Former Counties of Peel and York Now in the Town of Caledon, City of Brampton and City of Vaughan, Regional Municipalities of Peel and York, Ontario", Dated Jul 29, 2020, Filed with MHSTCI Toronto Office on Apr 7, 2021, MHSTCI Project Information Form Number P1059-0068-2020, MHSTCI File Number 0012702

Dear Mr. Boyce:

The above-mentioned report, which has been submitted to this ministry as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, R.S.O. 1990, c 0.18, has been entered into the Ontario Public Register of Archaeological Reports without technical review.[1]

Please note that the ministry makes no representation or warranty as to the completeness, accuracy or quality of reports in the register.

Should you require further information, please do not hesitate to send your inquiry to Archaeology@Ontario.ca

cc. Archaeology Licensing Officer
David O'Sullivan,R.V. Anderson Associates Limited
Syeda Banuri,Peel Region

1*In no way will the ministry be liable for any harm, damages, costs, expenses, losses, claims or actions that may result: (a) if the Report(s) or its recommendations are discovered to be inaccurate, incomplete, misleading or fraudulent; or (b) from the issuance of this letter. Further measures may need to be taken in the event that additional artifacts or archaeological sites are identified or the Report(s) is otherwise found to be inaccurate, incomplete, misleading or fraudulent.*

Region of Peel
working with you

From: Minkin, Dan (MTCS) <Dan.Minkin@ontario.ca>
Sent: August 26, 2022 3:48 PM
To: Courtney Row
Cc: Banuri, Syeda; Andrew McGregor; Connor MacIsaac
Subject: RE: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report [MTCS File 0012702]
Attachments: 2022-08-26_Hwy50DrainageDraftPFR_MTCScomments.pdf

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Good afternoon,
Please find attached our comments on the draft PFR.
I acknowledge that the draft Cultural Heritage Assessment was also sent to us for review before this draft PFR. However, since the draft PFR was circulated to us during our review of the draft Cultural Heritage Assessment, with the latter included as an appendix, I have incorporated our comments on both documents into the single letter attached.

Dan Minkin | Heritage Planner
Ministry of Tourism, Culture and Sport
Heritage, Tourism and Culture Division | Programs and Services Branch | Heritage Planning Unit
T. 416. 786.7553 | Email: dan.minkin@ontario.ca

From: Courtney Row <CRow@rvanderson.com>
Sent: July 29, 2022 6:16 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Dear Recipient,

You are receiving this email in response to your interest in the Region of Peel **Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements.**

We are nearing the completion of the **Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements** to address a wide range of stormwater management and active transportation options for the **Highway 50 corridor from Mayfield Road to Healey Road**, in the Town of Caledon. The project alternatives were evaluated to provide viable solutions to satisfy both regulatory and climate change requirements.

We received comments earlier this year for the recommendations and alternatives considered. The project team has updated the recommendations and documented the study process in the ***draft* Project File Report (PFR)**. All technical reports and plans are included in Appendices. We are now seeking your feedback on the *draft* PFR. T

The *draft* PFR and Appendices contain containing **Final Drafts** of the Technical Reports including the Natural Heritage, Cultural Heritage and Archaeological Reports for your review and comments.

Please note that due to the size of the attachments, the information is separately shared via NewForma platform. You will be receiving a subsequent email from "Newforma" which will provide you access to the files. Please, let myself crow@rvanderson.com know if you if you have any questions or challenges accessing the content. You will receive an e-mail with instructions of how to create an account and sign in. Please check your inboxes for

another email following this from “Newforma”. The Newforma email requests each user set a password in order to access the materials on their info exchange website.

We kindly request you take a look at the relevant information and provide your input on the *draft* PFR by no later than **August 26th, 2022.** After the review period the PFR will be finalized and subsequently filed to the Public Record for a 30 - day review period.

If you have any comments, questions, or require any additional information, please do not hesitate to the Project Managers:

Syeda Banuri syeda.banuri@peelregion.ca and Andrew McGregor AMcGregor@rvanderson.com

Thank you for your time and efforts.

Happy Long Weekend!

Warm regards,

Courtney Row, CAN-CISEC (she / her)
FIELD / GIS TECHNICIAN

t 416 497 8600 ext. <1372> | m <647 285 9020>
a 2001 Sheppard Avenue East, Suite 300, Toronto, ON M2J 4Z8

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Ministry of Tourism, Culture and Sport

Programs and Services Branch
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Tel: 416-786-7553

Ministère du Tourisme, de la Culture et du Sport

Direction des programmes et des services
400, av. University, 5e étage
Toronto, ON M7A 2R9
Tél: 416-786-7553

Ontario

August 26, 2022 EMAIL ONLY

Courtney Row, CAN-CISEC
Field/GIS Technician
R.V. Anderson Associates
2001 Sheppard Avenue East, Suite 300
Toronto, ON M2J 4Z8
CRow@rvanderson.com

MTCS File	**:**	**0012702**
Proponent	**:**	**Peel Region**
Subject	**:**	**Draft Project File Report and Cultural Heritage Assessment**
Project	**:**	**Drainage Improvements of Regional Road Highway 50 from Mayfield Road to Healey Road**
Location	**:**	**Town of Caledon, Ontario**

Dear Ms. Row:

Thank you for providing the Ministry of Tourism, Culture and Sport (MTCS) with the Draft Project File Report for the above-referenced project. MTCS's interest in this Environmental Assessment (EA) project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- archaeological resources, including land and marine;
- built heritage resources, including bridges and monuments; and
- cultural heritage landscapes.

We have reviewed the Draft Project File Report (dated July 26, 2022, prepared by RV Anderson) including the draft Cultural Heritage Assessment: Built Heritage Resources & Cultural Heritage Landscapes (dated October 20, 2020, prepared by Megan Hobson for Archaeoworks) provided in Appendix 4.

Project Summary
The purpose of this study is to assess low impact development (LID) stormwater management and drainage infrastructure improvements required for the roadside drainage ditches and culvert crossings on Regional Road Highway 50, (Highway 50) from Mayfield Road to Healey Road, in the Town of Caledon.

Comments
Based on our review we offer the following comments on the body of the draft Project File Report.

1. While not strictly related to cultural heritage, we note that Section 2 includes a top-level subsection (2.6) on the Provincial Policy Statement (PPS), which only discusses the natural heritage policies of the PPS. The PPS provides policies on several areas relevant to environmental assessments such as this one, including cultural heritage. However, it may be that this was a simple formatting error in that the section on the PPS was intended

to be a second-level subsection of the preceding subsection on Natural Environment, and should simply be renumbered as 2.5.7 rather than 2.6.

2. As described in the first paragraph of this letter, cultural heritage is a term that includes archaeological resources, built heritage resources, and cultural heritage landscapes. As such we recommend that Sections 2.7 and 6.6 be renamed "Built Heritage Resources and Cultural Heritage Landscapes" to more accurately reflect their content. Sections 2.8 and 6.7 could be renamed "Archaeological Resources".

3. For the reasons put forward in comment #2 above, we would recommend that the row titles "Heritage/Archaeological/Cultural Impacts" in the evaluation tables (Tables 4.3.1 through 4.4.2) be simplified to "Cultural Heritage" or "Cultural Environment".

4. Section 6.7 correctly notes that further archaeological investigation is required "if during construction deeply buried artifacts (e.g., human remains) are uncovered." However, to ensure that appropriate and binding commitments are being undertaken through the publication of the final Project File Report, we would recommend that this paragraph specify what is to be done in such a scenario. The commitment should be to the effect that the proponent or person discovering the archaeological resources will cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out an archaeological assessment, in compliance with Section 48(1) of the *Ontario Heritage Act*. The Ministry of Tourism, Culture and Sport may be contacted for guidance (at archaeology@ontario.ca). In the case of the discovery of human remains, the police or coroner must also be notified.

5. Please note that as of late June, our ministry name has been reverted to the Ministry of Tourism, Culture and Sport (MTCS). This name can replace all references to the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) in the report.

We further offer the following comments on the draft Cultural Heritage Assessment:

1. The report seems to use "cultural landscape" and "cultural heritage landscape" interchangeably. We recommend the use of "cultural heritage landscape" throughout the report. Cultural heritage landscape is a widely-used term for a type of cultural heritage resource and is defined in the PPS. "Cultural landscape" is not a term typically used in a cultural heritage context.

2. We recommend that the definitions of built heritage resource and cultural heritage landscape presented in Section 2.0 be revised for consistency with the definitions found in Section 6.0 of the PPS 2020.

3. The list of evaluation criteria in Section 2.3 appears to combine preliminary screening criteria, such as the 40-year age threshold, with definitive criteria for cultural heritage value or interest, such as those based on Ontario Regulation 9/06. Screening criteria, such as those found in the MTCS *Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes*, can be used to select properties for further investigation as potential cultural heritage resources; they do not individually confirm or exclude the property as a cultural heritage resource. The criteria that define cultural heritage value or interest require property-specific research to apply. We recommend that this section of the report be revised to draw a clearer distinction between the two types of criteria, if both are to be presented, and note how they are used in this report.

4. It is unclear why the latter part of Section 2.3 refers to and lists examples of "cultural landscapes". If this is intended to refer to cultural heritage as discussed in comment #1 above, this term and examples be provided alongside those of built heritage resources. Otherwise, the intent of this part of the section should be made more clear.

Thank you for consulting MTCS on this project and please continue to do so throughout the EA process. If you have any questions or require clarification, please do not hesitate to contact me.

Sincerely,

Dan Minkin
Heritage Planner
Dan.Minkin@Ontario.ca

Copied to: Syeda Benuri, Peel Region
Andrew McGregor, RV Anderson
Connor MacIsaac, RV Anderson

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. MTCS makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MTCS be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Please notify MTCS (at archaeology@ontario.ca) if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the Ontario Heritage Act and the Standards and Guidelines for Consultant Archaeologists.

If human remains are encountered, all activities must cease immediately, and the local police and coroner must be contacted. In situations where human remains are associated with archaeological resources, MTCS should also be notified (at archaeology@ontario.ca) to ensure that the site is not subject to unlicensed alterations which would be a contravention of the Ontario Heritage Act.

From: Caroline Mugo <Caroline.Mugo@trca.ca>
Sent: January 20, 2020 1:37 PM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: Reg. Rd 50 Drainage Improvements Class EA ~ Draft Meeting Notes

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Hi Andrew,
Thank you for the minutes. Please see TRCA comments regarding the actions items:

- As it is shown on the map below, there are two watercourses. One of them is located east of Mayfield Road and the HWY 50 intersection where TRCA has the most up to date version of hydraulic model. However, for the watercourse located west of the intersection (circled in red), TRCA does not have a hydraulic model. TRCA staff requires that a hydraulic model be developed for the tributary located on the west side of HWY 50.

- TRCA staff confirms that the area along the west side of Highway 50, north of Mayfield Road is not a watercourse as shown on google maps, but a ditch (please refer to attachment).

Please let me know if you have any questions.
Thanks,

Caroline Mugo, Ph.D
Planner, Infrastructure Planning and Permits
Development and Engineering Services Division

T: (416) 661-6600 ext. 5689
E: caroline.mugo@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

Toronto and Region Conservation Authority

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From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: Tuesday, January 14, 2020 2:51 PM
To: olev.garbos@peelregion.ca; bob.nieuwenhuysen@peelregion.ca; Jason.tran@peelregion.ca;

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gayle.gorman@peelregion.ca; Jairo Morelli <Jairo.Morelli@trca.ca>; Caroline Mugo <Caroline.Mugo@trca.ca>; Ryan Grodecki <Ryan.Grodecki@caledon.ca>; mark.knuckle@peelregion.ca; favshad.salehzadeh@peelregion.ca; Shaikh, Shahzeb <shahzeb.shaikh@peelregion.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Sally.Rook@peelregion.ca; Peter Cho <pcho@rvanderson.com>
Subject: Reg. Rd 50 Drainage Improvements Class EA ~ Draft Meeting Notes

Technical Advisory Committee members,

Please find attached the minutes/notes to our meeting held last month for the Reg. Rd 50 Drainage Improvements Class EA. Kindly let me know if there's anything missed or incorrect. I will send out the final version to all committee members, incorporating all comments received this Friday.

Kind regards,

Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals

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43 Church Street, Suite 104
St. Catharines, ON L2R 7E1
T 905-685-5049 x 4211 | **C** 905-964-4056
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From: Jairo Morelli <Jairo.Morelli@trca.ca>
Sent: March 19, 2020 9:08 AM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: RR50 Drainage Improvements ~ Hydraulic Model Updates

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Hi Andrew

The requested information has been sent on a separate cover. The updated HEC RAS model ends approximately 300m north of Mayfield. Please let me know if you require further information

Regards

Jairo

Region of Peel
working with you

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: Wednesday, March 18, 2020 10:11 AM
To: Jairo Morelli <Jairo.Morelli@trca.ca>
Subject: RE: RR50 Drainage Improvements ~ Hydraulic Model Updates

Okay, will do. Thanks Jairo

Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals
Phone: 416-497-8600 x4211
Cell: 905-964-4056

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From: Jairo Morelli <Jairo.Morelli@trca.ca>
Sent: March 18, 2020 10:06 AM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: RR50 Drainage Improvements ~ Hydraulic Model Updates

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Hi Andrew. I can include the report completed by Cole if you like. However, as the latest update was completed by Aquafor, I would like to send you their report instead.

Please wait until I send you the model and mapping then you let me know whether the Cole report is still required.

Regards

Jairo

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: Wednesday, March 18, 2020 9:58 AM
To: Jairo Morelli <Jairo.Morelli@trca.ca>
Subject: RE: RR50 Drainage Improvements ~ Hydraulic Model Updates

Thanks Jairo. You had also mentioned a report completed by Cole. Kindly include that as well.

Regards,

Region of Peel
working with you

Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals
Phone: 416-497-8600 x4211
Cell: 905-964-4056

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GREATER TORONTO'S TOP 2020 EMPLOYERS

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From: Jairo Morelli <Jairo.Morelli@trca.ca>
Sent: March 18, 2020 9:54 AM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: RR50 Drainage Improvements ~ Hydraulic Model Updates

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Hi Andrew

I am so sorry for the delay in sending you the HECRAS model. We will send you the most updated hydraulic model and mapping completed by Aquafor in December 2019, by the end of the day today or first thing tomorrow.

My apologies again

Jairo Morelli

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: Wednesday, March 18, 2020 9:42 AM
To: Jairo Morelli <Jairo.Morelli@trca.ca>
Cc: Caroline Mugo <Caroline.Mugo@trca.ca>; Peter Cho <pcho@rvanderson.com>; Troy Poirier <tpoirier@rvanderson.com>; Rene Siguenza <rsiguenza@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>; Philip Campbell <pcampbell@matrix-solutions.com>
Subject: RE: RR50 Drainage Improvements ~ Hydraulic Model Updates

Hi Jairo,

Just following up on the outstanding items below. We still haven't received the TRCA's updated flood plain mapping, HEC RAS model and Cole report. This input is required for us commence with the hydraulic analysis, fluvial assessment and other works. Please advise when we can expect to receive this information.

Kind regards,

Region of Peel
working with you

Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals
Phone: 416-497-8600 x4211
Cell: 905-964-4056

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From: Jairo Morelli <Jairo.Morelli@trca.ca>
Sent: March 3, 2020 8:53 AM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Cc: Caroline Mugo <Caroline.Mugo@trca.ca>; Peter Cho <pcho@rvanderson.com>; Troy Poirier <tpoirier@rvanderson.com>; Rene Siguenza <rsiguenza@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: RR50 Drainage Improvements ~ Hydraulic Model Updates

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Hi Robert.

Thanks for sending us the signed agreement. Please allow us a couple of days to send you the info.

Regards

Jairo

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: Monday, March 2, 2020 4:07 PM
To: Jairo Morelli <Jairo.Morelli@trca.ca>
Cc: Caroline Mugo <Caroline.Mugo@trca.ca>; Peter Cho <pcho@rvanderson.com>; Troy Poirier <tpoirier@rvanderson.com>; Rene Siguenza <rsiguenza@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: RR50 Drainage Improvements ~ Hydraulic Model Updates

Thanks Jairo,

The noted report from Cole appears to be missing. Please resend at your earliest convenience.

In the meantime, please see the signed agreement attached.

Kind regards,

Region of Peel
working with you

Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals
Phone: 416-497-8600 x4211
Cell: 905-964-4056

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GREATER TORONTO'S TOP 2020 EMPLOYERS

RVA is growing!
Our new Halton office is opening this spring.

From: Jairo Morelli <Jairo.Morelli@trca.ca>
Sent: February 26, 2020 10:13 AM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Cc: Caroline Mugo <Caroline.Mugo@trca.ca>; Peter Cho <pcho@rvanderson.com>; Troy Poirier <tpoirier@rvanderson.com>; Rene Siguenza <rsiguenza@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: RR50 Drainage Improvements ~ Hydraulic Model Updates

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Hi Andrew

The TRCA has updated the floodplain mapping for the reach in question (Mapping sheets #157 and #169). The updated flood plain mapping, HEC RAS model and report are available for you to use as part of the supporting hydraulic assessment. However, a Data Sharing Agreement (DSA) should be signed before we can share the updated information. The DSA agreement is enclosed.

It should be noted that there are some spill areas upstream of Mayfield road. These area should be assessed consistent with the recommendations provided within the Hydraulic report by Cole Engineering (enclosed)

Please contact us should you have any question or concerns

Regards

Jairo.

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: Monday, February 24, 2020 1:41 PM
To: Jairo Morelli <Jairo.Morelli@trca.ca>
Cc: Caroline Mugo <Caroline.Mugo@trca.ca>; Peter Cho <pcho@rvanderson.com>; Troy Poirier <tpoirier@rvanderson.com>; Rene Siguenza <rsiguenza@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RR50 Drainage Improvements ~ Hydraulic Model Updates

Region of Peel
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Hi Jairo,

Per Peter's earlier coordination with Caroline, please find RVA's latest hydraulic model developed for the Regional Road 50/Mayfield Road Detailed Design in the Link below. This updated model reflects the proposed scenario where all the culverts in the intersection are being upsized to accommodate the latest flows provided by the TRCA (received in 2018). We want to confirm the current TRCA models have the updated culvert sizes. If not we would like to have a discussion on how to proceed before we move forward with more analysis north of the Mayfield/RR50 intersection.

Kind regards,

Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals
Phone: 416-497-8600 x4211
Cell: 905-964-4056

R.V. Anderson Associates Limited
43 Church Street, Suite 104
St. Catharines, ON L2R 7E1
website | facebook | twitter | linkedin

GREATER TORONTO'S TOP 2020 EMPLOYERS

RVA is growing!
Our new Halton office is opening this spring.

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Region of Peel
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From: Jairo Morelli <Jairo.Morelli@trca.ca>
Sent: October 15, 2020 11:54 AM
To: Karen Hofbauer <khofbauer@matrix-solutions.com>
Cc: Caroline Mugo <Caroline.Mugo@trca.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Natasha Cyples <ncyples@matrix-solutions.com>; Philip Campbell <pcampbell@matrix-solutions.com>; Ziyang Zhang <zzhang@matrix-solutions.com>
Subject: RE: Highway 50, Bolton - West Robinson Creek Study

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Confirmed Karen. These are the peak flows that should be used in the hydraulic assessment.

Regards

Jairo

From: Karen Hofbauer <khofbauer@matrix-solutions.com>
Sent: Thursday, October 15, 2020 11:33 AM
To: Jairo Morelli <Jairo.Morelli@trca.ca>
Cc: Caroline Mugo <Caroline.Mugo@trca.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Natasha Cyples <ncyples@matrix-solutions.com>; Philip Campbell <pcampbell@matrix-solutions.com>; Ziyang Zhang <zzhang@matrix-solutions.com>
Subject: RE: Highway 50, Bolton - West Robinson Creek Study

Hi Jairo,
When we last spoke there was discussion that we should confirm the flows in the provided model are up to date. I have confirmed that the model matches the provided report. I have attached the flow table and corresponding flow node map from the Cole report. Can you confirm if these are still the correct flows, or if there has been additional hydrology update?
Thanks,
Karen

Karen Hofbauer, M.A.Sc., P.Eng.
Senior Water Resources Engineer
MATRIX SOLUTIONS INC.
D 226.314.1932
C 519.504.7517

From: Jairo Morelli <Jairo.Morelli@trca.ca>
Sent: September 17, 2020 10:00 AM
To: Karen Hofbauer <khofbauer@matrix-solutions.com>
Cc: Caroline Mugo <Caroline.Mugo@trca.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Natasha Cyples <ncyples@matrix-solutions.com>; Philip Campbell <pcampbell@matrix-

solutions.com>
Subject: RE: [External] RE: Highway 50, Bolton - West Robinson Creek Study

Hi Karen

Here is the model we recommend you to use in your assessment

Regards

Jairo

From: Karen Hofbauer <khofbauer@matrix-solutions.com>
Sent: Thursday, September 17, 2020 9:49 AM
To: Jairo Morelli <Jairo.Morelli@trca.ca>
Cc: Caroline Mugo <Caroline.Mugo@trca.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Natasha Cyples <ncyples@matrix-solutions.com>; Philip Campbell <pcampbell@matrix-solutions.com>
Subject: RE: [External] RE: Highway 50, Bolton - West Robinson Creek Study

Hi Jairo,
Could you send me the Cole 2015-16 model again. The one we have dated 2016 doesn't mention Cole I the notes, and there is some confusion between the existing and proposed files in the plan. I just want to make sure I'm starting with the right base.
Thanks,
Karen

Karen Hofbauer, M.A.Sc., P.Eng.
Senior Water Resources Engineer
MATRIX SOLUTIONS INC.
D 226.314.1932
C 519.504.7517

From: Jairo Morelli <Jairo.Morelli@trca.ca>
Sent: September 16, 2020 12:46 PM
To: Karen Hofbauer <khofbauer@matrix-solutions.com>
Cc: Caroline Mugo <Caroline.Mugo@trca.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Natasha Cyples <ncyples@matrix-solutions.com>
Subject: RE: [External] RE: Highway 50, Bolton - West Robinson Creek Study

Hi Karen

The current model and the one we recommend you to use, would be the one completed by Cole Engineering back in 2015-16. Enclosed is the associated report for your reference.

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I remember that RVA completed a hydraulic assessment along the mentioned Road a couple of years ago. This model would also be acceptable provided it includes updated flows consistent with the Humber hydrologic update which was completed by Civica and approved by the Authority in 2018.

Tomorrow we can go through the models and any questions or concerns you may have

Regards

Jairo

From: Caroline Mugo <Caroline.Mugo@trca.ca>
Sent: Wednesday, September 16, 2020 11:54 AM
To: Jairo Morelli <Jairo.Morelli@trca.ca>
Subject: FW: [External] RE: Highway 50, Bolton - West Robinson Creek Study

Hi Jairo,
Please see the response below regarding the model that they are using.
They still want us to meet tomorrow.

Thanks,

Caroline Mugo, Ph.D
Planner, Infrastructure Planning and Permits
Development and Engineering Services Division

T: (416) 661-6600 ext. 5689
E: caroline.mugo@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

From: Karen Hofbauer <khofbauer@matrix-solutions.com>
Sent: Wednesday, September 16, 2020 11:52 AM
To: Caroline Mugo <Caroline.Mugo@trca.ca>; Philip Campbell <pcampbell@matrix-solutions.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Natasha Cyples <ncyples@matrix-solutions.com>
Subject: RE: [External] RE: Highway 50, Bolton - West Robinson Creek Study

Hi Caroline.
Matrix has received 3 HEC-RAS models from TRCA.

1. 2012 – 5Humber River Tributaries Digital Flood Plain Mapping
    a. This model covers our study area but is the oldest of the three models we have received.
2. 2016 – A proposed condition model based on the 2012. There is a Plan is titled *ProposedCondition-2016* however, the geometry and flow files seem to be the same as the 2012 model.
    a. Based on this it is unclear if this model actually differs from the 2012 model.
3. 2019 – Updated Humber River Submission6

a. This model doesn't cover our study area.
b. New flows are provided in this model.

Plan is to use the 2016 model with required updates. Our proposed discussion points regarding the channel modelling are as follows:

- The model does not include all crossings
  - Will need to add/remove/shift cross-sections to add
  - Or can these be assessed in a different manner (e.g. CulvertMaster)
- Crossing 7 appears to be between the wrong cross-sections
- Crossing 1 geometry may need a more complex analysis
- Channel seems to be on wrong side of road at:
  - XS 973.9172, 861.5114, 856.116
  - XS 443.5518, 473.4928, 480.6141
- Presumably we should use the 2019 study to update the flow at top end of branch. Note this location is at Mayfield Road.

I'm not sure who you were planning on inviting to this meeting, but I understand from RVA that Jairo was familiar with this project back in the spring.

Talk tomorrow.
Karen

Karen Hofbauer, M.A.Sc., P.Eng.
Senior Water Resources Engineer
MATRIX SOLUTIONS INC.
D 226.314.1932
C 519.504.7517

From: Caroline Mugo <Caroline.Mugo@trca.ca>
Sent: September 14, 2020 12:10 PM
To: Philip Campbell <pcampbell@matrix-solutions.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Karen Hofbauer <khofbauer@matrix-solutions.com>; Natasha Cyples <ncyples@matrix-solutions.com>
Subject: [External] RE: Highway 50, Bolton - West Robinson Creek Study

Hi Philip,
Staff is available for a meeting the following times this week:
Wednesday AM or PM
Thursday AM
Friday AM
Apart from the modelling and the ongoing projects in the same vicinity, please confirm if there are any other issues you would like to discuss at the meeting so that I can include the correct reviewers. If any of the above times work for you, please send me a meeting invite.
Thanks,

Caroline Mugo, Ph.D
Planner, Infrastructure Planning and Permits
Development and Engineering Services Division

T: (416) 661-6600 ext. 5689
E: caroline.mugo@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

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From: Philip Campbell <pcampbell@matrix-solutions.com>
Sent: Monday, September 14, 2020 11:52 AM
To: Caroline Mugo <Caroline.Mugo@trca.ca>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Karen Hofbauer <khofbauer@matrix-solutions.com>; Natasha Cyples <ncyples@matrix-solutions.com>
Subject: RE: Highway 50, Bolton - West Robinson Creek Study

Good Morning Caroline,

Just following up on the request below. Would you have some availability later this week or early next to discuss? Thanks!

Regards,

Phil Campbell, P.Eng
Senior Civil Engineer

MATRIX SOLUTIONS INC.
Environment & Engineering
3001-6865 Century Avenue, Mississauga ON L5N 7K2
D 289.323.0974 **C** 519.502.5564
T 905.877.9531 **F** 289.323.3785
www.matrix-solutions.com

From: Philip Campbell
Sent: September 8, 2020 8:51 AM
To: Caroline Mugo <Caroline.Mugo@trca.ca>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Karen Hofbauer <khofbauer@matrix-solutions.com>; Natasha Cyples <ncyples@matrix-solutions.com>
Subject: Highway 50, Bolton - West Robinson Creek Study

Good Morning Caroline,

We (Matrix) are assisting RVA (their team leaders cc'd here) with the hydraulic modelling component of a Region of Peel initiative for a Schedule B Environmental Assessment which is underway for Highway 50 from Mayfield Road to Healy Road. Specifically, a component of our focus is West Robinson Creek where the watercourse generally runs adjacent/parallel to Hwy 50, and ultimately crosses the road just north of George Bolton Parkway.

RVA have been provided TRCA's HEC RAS modelling for our use. Our initial review of such has flagged a few shortcomings for the project needs that we would like to discuss with TRCA Staff; to ensure the EA project's objectives

and use of the modelling are consistent with your objectives. Also, I understand there are a number of other initiatives at the regional-municipal and local developer scale in the area, so it would also be good to get your input in this regard so Peel's EA progresses consistently with other area initiatives.

Would you have some availability in the coming weeks to discuss with us? Perhaps if you, personally, are not familiar with the modelling details, other TRCA reps could join as well. If you can please advise with a few dates/times where you have availability, I will organize with the rest of the team and send out web-meeting details and logistics.

Look forward to hearing from you. Thanks.

Regards,

Phil Campbell, P.Eng
Senior Civil Engineer

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MEETING MINUTES

Regional Road 50 Drainage Improvements EA – TAC Meeting #2

DATE: October 30,2020

PLACE: Microsoft Teams Meeting Space (Online)

PROJECT NO.: 194615 Highway 50 Drainage Improvements Class EA & Preliminary Design

PRESENT: **Region of Peel (Region):** Syeda Banuri, Christopher Despins, Olek Garbos, Mark Knuckle, Bob Nieuwenhuysen, Sally Rook, Manvir Tatla, Mark Crawford, Anna Lee, Jamie Reinders, Farshad Salehzadeh, Matthew Aymar, Kiran Ghai, Sakshi Saini, Franca Ursitti.
Toronto and Region Conservation Authority (TRCA): Caroline Mugo, Harsha Gammanpila, Jairo Morelli.
Town of Caledon (Town): Ryan Grodecki, Arash Olia, Kant Chawla, Margi Sheth.
R.V. Anderson Associates Limited (RVA): Andrew McGregor, Oliver Olberg, Peter Cho, Courtney Row.
Other: (+12**-888-8829) Unknown Caller.

The purpose of this second meeting was to re-introduce the project and study, review the alternatives considered and preliminary recommendations for the corridor regarding stormwater management measures and active transportation amenities.

DISCUSSION:		**ACTION BY:**
1.	Goal to present to the public via a digital Public Information Centre (PIC) tentatively scheduled for January 2021.	RVA, Region
2.	Region briefly introduced project and RVA team. No further introductions.	Info
3.	RVA presented a Power Point presentation of the project, alternatives, and preliminary recommendations.	Info
4.	Project Overview: - Study area: Highway 50 (Regional Road 50) from Mayfield Road to Healey Road - Stormwater management / drainage / Low Impact Development (LID) improvements - Active Transportation improvements: cycle track or multiuse path - Schedule 'B' Class Environmental Assessment (EA) and 30% Preliminary Design - PIC planned for January 2021 - Liaise with technical agencies and consult with public throughout project.	Info

CANADA'S BEST MANAGED COMPANIES Platinum member

Region of Peel working with you

DISCUSSION: **ACTION BY:**

5. Estimated Project Timeline:

   - Notice of Study Commencement/Project Information displayed on Project Website: June 25, 2020
   - Public Information Centre: Winter 2020
   - Project File Report / Completion: Spring / Summer 2021

6. Study Area:

   - Hwy 50 from Mayfield Road to Healey Road (2.5km)
   - Urbanized corridor with commercial and industrial establishments along the corridor. Maintaining access to businesses will be a key component
   - Bisected by West Robinson Creek, part of Rainbow Creek sub-watershed (warm water fish community)
   - Drainage accommodated via ditches and storm sewers
   - No species at risk identified within the corridor
   - No cultural or archaeological areas of significance
   - Corridor designated by Region as a pedestrian improvement corridor

7. Other Projects in the Area:

   - Town of Caledon, Extension of George Bolton Parkway to Albion Vaughan Road
   - Region, Bridge Overpass Improvements at North end of study area
   - Region, Mayfield Road Improvements (RVA project)

8. Key Issues:

   - Failing culverts along the corridor require stormwater management improvements to address increasing severity of storm events resulting from climate change
   - Increasing Active Transportation amenities along the corridor increases the amount of impervious surface contributing runoff to the already failing or poor condition infrastructure
   - Increased flows to sewer system

9. SWM/LID Options under Consideration:

   - Do Nothing
   - Culvert Upgrades & replacements
   - Stormwater Management Ponds
   - Bioretention Facilities
   - Permeable Pavement
   - Oil Grit Separator Units
   - Superpipe Storage
   - Infiltration Chambers
   - Swale/Ditch Enhancements
   - Catch basin Capture Devices

DISCUSSION: **ACTION BY:**

10. Drainage, Filtration and Storage

- Enhancements to storage and filtration on site. No road widening therefore the amount of increased impervious surface is small.
- Goal to improve the current condition to accommodate the installation of the multiuse path or cycle track. Predevelopment conditions would be difficult to achieve because of multiple constraints in the area. Goal is to find a balance between identifying improvements to current infiltration and stormwater management, while reducing costs of construction and property acquisition.

11. Active Transportation Options

- Multi use trails and cycle paths considered on both east and west sides.

12. Evaluation and Recommendations

- Alternatives evaluated with respect to technical, social, natural, cultural, and archaeological as well as cost environments.
- Recommended to be carried forward:
    - Upgrades and Replacements of Failing Culverts
    - Bioretention Facilities
    - Oil Grit separator Units
    - Infiltration Trenches
    - Enhanced Roadside Ditches
    - Catch basin Capture Devices
    - Multi-use Path on West side (3 m)
- Stormwater Ponds, Permeable Pavement, and Superpipe Storage options were excluded due to factors such as high implementation and maintenance costs, and feasibility restrictions.
- Multi-use Path on the west side ties in with previously planned Active Transportation amenities south of the project limits. Creek runs along East side of corridor therefore having the path on the West side will reduce impacts to the watercourse. Increased property area along west side will reduce impact to properties.
- 3.0 metre multi-use path will accommodate pedestrians as well as cyclists which will also reduce the footprint required from adjacent landowners.

13. Study Plan Review

- Plans showing elements of the recommended SWM/LID features were reviewed. Key takeaways include:
    - Mayfield Road/Highway 50 north to Shell gas station. Drainage will be accommodated via infiltration chambers (previously determined from Mayfield Road Improvement

DISCUSSION: **ACTION BY:**

Project) and infiltration trenches to replace existing roadside ditches and improve capacity.

- Existing storm sewer to remain north of the gas station as there is very limited space to install LID in this area. The multiuse path or cycle track with also impact the amount of space available.
- Storm sewers are also maintained on the opposite side and will drain to the same outlet point into the creek. Oil and Grit separator (OGS) is recommended to treat water prior to discharging into the creek.
- In the next section there is an increase in area available, however due to widening from the multi-use path, bioswale boxes are recommended. These are narrower and will fit within the remaining footprint.
- In the area north of Simona Drive to George Bolton Blvd, existing utilities prevent significant LID improvements. Bioswale boxes are recommended along this section.
- North of George Bolton Blvd, where available space is limited and existing utilities are an issue, recommended drainage/SWM features are to include maintaining the existing storm sewers and a combination of trench drains and catch basin shields to be added to existing catch basins to filter out pollutants. Existing ditch sections along the road will be improved and OGS installed to clean road runoff
- Culverts will be investigated for relining or replacement if hydraulic insufficiencies exist.

14. Private Property

- Property acquisition will be required in area where multipurpose path or cycle track would otherwise require a curved alignment to continue (undesirable for continuity of active transportation and drainage).
- It was noted that permission will be required to upgrade culverts on private property.

15. Flows and Hydraulic Modelling

- TRCA and RVA are using updated modelling to size culverts and make sure the infrastructure is adequate. Current culverts are sized based on outdated data values for the watershed. Flow has increased since culvert installation about twenty years ago.
- Infoworks and HECRAS watercourse models used.
- Detailed drainage models along roadside will be further simulated to understand tail water conditions from roadside recommendations.

16. Operations and Maintenance

- Hydro vac of catch basins will incur the longest maintenance duration. Catch basin shields require removal and replacement

DISCUSSION: **ACTION BY:**

therefore placing within the manhole will be avoided as much as possible to mitigate the maintenance required.
- Region would like to know to know how many are proposed for planning. Operations Dept requires inventory of new designs and assets for LIDs
- Maintenance plan to be incorporated into detailed design

17. Removal Targets

- Anticipate removal of close to 80% of suspended solids through the CB Shield and combination of OGS measures.
- To implement any other measures (e.g., jellyfish) to reach 80% would be a substantial cost and trigger additional land acquisition.

18. Storm Pond on East Side

- Pond owned privately by police training academy. May be possible to incorporate into system to reach 80% Suspended Solid removal
- Pond could be impacted by Town's George Bolton Blvd Extension project. Town has completed retrofit works in the area. Margi Sheth (stormwater division) to provide information regarding George Bolton Parkway Extension and Project Manager Ian Toddhunter.

19. TRCA and Technical Agency Review

- TRCA requests opportunity for their Ecologist to review and comment. Emma Benko is the updated TRCA contact.
- RVA to provide a description writeup of proposed recommendations with areas and values included to assist with review
- On November 30th, 2020, proposed swale/ditch removal locations requested.
-

20. Municipal Service & Utility Impacts

- No impacts to utilities or planned utility relocations
- No anticipated impacts to water/ wastewater infrastructure.
- If more ditches are implemented relocation of watermains running through existing ditch profile could be required (very costly). Watermain in place is PVC; year of construction is unknown.

21. Cycle Track

- Region requested RVA consider a bidirectional cycle track along each side of the road (not recommended)
- Unidirectional path to be considered as part of evaluation table and indication "not recommended to be carried forward" included

22. Coordination with Other Projects for AT

- East side of bridge over rail tracks immediately north of the study area is to be replaced. West side will remain sidewalk.

DISCUSSION: **ACTION BY:**

- Proposed MUP needs to match up with future AT on East side. RVA to determine crossing location for MUP. Healey Road was put forward as a possible location
- 2021 Capital Projects Budget to include Queens Gate to Colombia Way. EA anticipated to commence in 2021.
- Uniform facility (e.g., MUP) across the entire corridor would be preferred

23. Next Steps

- TRCA Ecologist to review and provide comments
- RVA to provide general high level maintenance inventory
- Notice of PIC #2 to be sent out in Winter 2020 / 2021
- Host PIC #2 Online and receive input from public
- Complete ongoing studies and hydraulic modelling
- Confirm property requirements / acquisition and provide report to Region
- Confirm or revise recommendations further to input received
- Present Final recommendations to Senior Management and Council
- Draft Project File Report for mandatory 30-day review
- Complete design to standard 30%

Minutes prepared by: CR

Distribution: All in attendance

h:_2019\194615 - regional road 50 ea\d meetings\01 external\a. technical agencies committee meeting\tac meeting no. 2\194615_meetingminutes_20201104.docx

PLEASE ADVISE THE WRITER OF ANY ERRORS OR OMISSIONS WITHIN 1 WEEK OF RECEIPT OF THESE MINUTES

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MEETING NOTES

BI-WEEKLY PROGRESS MEETING

Peel Region, Project # 18-4860
Regional Road 50 Drainage Improvements Class Environmental Assessment

DATE: January 14, 2021 at 3:00 pm

PLACE: Online Via MS Teams

PROJECT NO.: 194615

PRESENT: Syeda Banuri, Region of Peel (Region)
Peter Cho, RVA
Oliver Olberg, RVA
Andrew McGregor, RVA

DISCUSSION:	**ACTION BY:**
1. EA Factor Specific Studies	
○ Topographic Survey: Complete	Info
○ Fluvial Geomorphology & Hydraulic Assessment	
Draft provided to TAC for review and comment. RVA has requested some revisions/additions to the report.	RVA
Many of the culverts are shown as failing; hydraulic capacity of these culverts is insufficient so that they cause flooding. We will need to design new culverts and upgrade these structures to address flooding.	Info
○ Natural Assessment	
Draft existing conditions assessment complete. Draft provided to TAC. RVA to provide recommended design to subconsultant to allow completion of the report.	Info
○ Stage 1 Archaeological	
Draft Completed. No additional clearance (ie. Stage 2 Assessment) required. Report provided to TAC	Info
○ Cultural Heritage	
Complete. No heritage concerns. Draft provided to TAC	Info
○ Geotechnical Investigation	
Draft complete. Going through Internal review (RVA). Draft provided to TAC.	Info
○ Hydrogeological Assessment	

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DISCUSSION:	ACTION BY:
Draft submitted to Region for review. RVA to provide to TRCA. Draft provided to TAC	Info
o Soil Contamination Review Complete. Draft provided to TAC	
o SWM Report	Info
• Modelling of existing conditions mostly complete. Anticipate completion of SWM report by end of January. The SWM report will include an analysis of the existing hydraulic and hydrologic conditions along Regional Road 50, with an emphasis on culvert capacity. Recommended culvert sizes will be included for culverts that are deemed to be under capacity or in need of replacement. Analysis of the proposed LID's will also be included.	RVA
• RVA requires additional information to complete (RVA to follow up on these items with Town of Caledon): 1. Section of property to the north of study area contributing to drainage area (area missing from GM Blue Plan data) 2. Evidence of road flooding at George Bolton intersection 3. Flow volumes from storm pond behind 12207 Hwy 50	RVA
• Region PM to follow up on sewer design sheets in Region's archives.	
• Where gaps exist in the data, RVA to estimate based on best judgement and note in the study documentation	Region RVA
2. Consultation Plan	
• Draft PIC Displays have been provided to Region /TAC for Comment. RVA to review PM's comments and revise.	RVA
• Target late February 2021 for placing digital PIC materials on the project website for public review and comment	Info
• Waiting to receive on input from submitted materials TAC (Jan 18). RVA to send reminder to TRCA.	Info
• Displays still require Senior Mngt and council review prior to presenting to public	Region
3. TAC Meeting	
• Revised meeting notes with TAC comments were included in the Draft reports and Preliminary Design package. Region to send reminder to TAC members to review and provide comment.	RVA
• Comments received to date from Region and / or TAC	
o Could we replace ditches with enhanced swales along east side? ▪ No. The cross sectional area of the ditches will be fully utilized and the introduction of check dams would lead to flooding and re-suspended/eroding of any settled settlement due to higher flow velocities during the larger storm events.	Info
o Incorporate rest areas per Region's Policy	

DISCUSSION: **ACTION BY:**

- Rest area locations have since been added to the plans

- Consider Storm-Tree Trench: Using Stormwater for roadside trees
  - Storm trees not a preferred solution for RR50 corridor due to potential utility conflicts, clear zone issues and salt spray impacts on trees. Bioswales preferred method as it is easier to select more salt tolerant vegetation than trees — Info

4. Property Requirements

- RVA to confirm property requirements and submit to Region's Real Estate Dep't — RVA
- RVA to contact Region's Real Estate Dep't to confirm property limits at 12700 Hwy 50 and easement details at 12833 Hwy 50 (Home Hardware) — RVA
- Region/RVA to confirm if easement at Home Hardware needs to be updated due to MUP crossing impacts or if property is to be acquired. — RVA

5. Online SWM Pond at George Bolton Pkwy

- Region suggested RVA remove pond from the study recommendations — Info

6. 12207 Hwy 50 flooding

There used to be a ditch running along RR50, in front of the houses, and this ditch has been replaced with a 525mm CSP sewer. This sewer likely does not have the capacity of the previous ditch. This is where the concern, and likely flooding arises. — Info

Rainbow Creek in this area backs up under larger storm events, and currently under 25 year storm conditions the creek level reaches an elevation that lets it flow towards the existing 525mm CSP. This sewer provides relief flow for the creek, but it is not the same level of relief the previous ditch would have provided. This is likely causing flooding issues further down the creek, as the higher flow elevation will be reached in the creek to achieve the same flow capacity as the combined creek and relief ditch.

Recommended that the existing 525mm pipe be replaced with either a larger pipe, or open bottom plastic arch chambers (infiltration chambers).

Issue to be addresses as part of this EA.

7. Preliminary SWM & MUP Recommendations

<u>SWM/LID Recommendations</u> — Info

- Drainage/SWM components will feature a combination of
  - Culvert replacements
  - Bioretention Facilities
  - Oil Grit Separator Units
  - Infiltration Chambers
  - Maintain Ditch (East Side)
  - Catchbasin Capture Devices

<u>AT Recommendations</u>

- MUP along west side.

DISCUSSION: **ACTION BY:**

- Crossing at Healey Road to allow for tie in to future bridge upgrades.
- 3 rest areas at Parr Blvd, George Bolton Pwky, and McEwan drive Locations have been added, approximately 600m apart.
- Based on the rest area policy, property constraints and intersection sight lines.

Outstanding

- Size the pipes and channels using model results. RVA
- Incorporate trees /streetscaping into the preliminary design where possible RVA

8. Invoicing

- All 2020 invoices provided to Syeda Info

9. Next Meeting

- Next bi-weekly meeting scheduled for Jan 28, 2021 3:00pm via MS Teams. Info

Notes prepared by: Andrew McGregor

Distribution: All present

PLEASE ADVISE THE WRITER OF ANY ERRORS OR OMISSIONS WITHIN 1 WEEK OF RECEIPT OF THESE NOTES

To: Andrew McGregor
Subject: RE: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

From: Emma Benko <emma.benko@trca.ca>
Sent: January 19, 2021 3:26 PM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Oliver Olberg <OOlberg@rvanderson.com>; Matthew de Wit <MdeWit@rvanderson.com>
Subject: RE: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

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Hi Andrew,

Happy New Year to you as well! Staff have completed their review of the SWM Memo and Hydrogeology Report. Please see below for our comments and recommendations:

In response to the SWM Memo:

1. Staff are aware of the current constraints to achieve TRCA water quality, quantity, erosion and water balance control for the road in question. However, this would be an excellent opportunity to incorporate SWM controls consistent with TRCA's Stormwater Management Criteria, regardless of the current road conditions. The recommended retrofitting of the existing inline pond at George Bolton Parkway should consider the opportunity to construct an offline pond. Inline ponds are not recommended nor supported by TRCA's Living City Policies.
2. Without the competition of the EIS/NHE staff are not able to provide comprehensive ecological comments, particularly where the watercourse is in the ditch. If there are proposed changes to the crossing structures please refer to the TRCA's Crossing Guideline for Valley and Stream Corridors Crossing Guideline. Additionally, if any alterations to the watercourse are contemplated, please include all relevant information from the TRCA Channel Modification Design and Submission Requirements.

General SWM recommendations:

3. Staff note re-development applications that include increased proposed impervious cover along Highway 50 often include proposed outlets to the Natural System, as not being able to send stormwater to Highway 50 is a project constraint. Proposed outlets to the Natural System is contradictory to TRCA Policy. Staff strongly suggest that the Region ensure that the proposed sizing of the SWM System is large enough to accommodate growth within the Plan Area.
4. Staff note that there are many other LIDs that may be suitable for implementation within the project. Staff suggest that LIDs with increased plant cover and tree cover be explored. Please refer to the Low Impact Development Road Retrofit Guide for additional LID options.

Additionally, staff had the opportunity to review the Hydrogeology report and did not have concerns.

Please let me know if you have any questions. Thank you,

Emma Benko
Planner
Infrastructure Planning and Permits | Development and Engineering Services

T: (416) 661-6600 ext. 5648
E: emma.benko@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: Monday, January 18, 2021 3:00 PM
To: Emma Benko <emma.benko@trca.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Caroline Mugo <Caroline.Mugo@trca.ca>; Oliver Olberg <OOlberg@rvanderson.com>; Matthew de Wit <MdeWit@rvanderson.com>
Subject: RE: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

Hi Emma,

Happy New Year! Thought I'd check in to see if you have any comments on the materials we sent. Let me know if you require anything else from us for your review.

Thanks and kind regards,

From: Emma Benko <emma.benko@trca.ca>
Sent: December 9, 2020 2:29 PM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Caroline Mugo <Caroline.Mugo@trca.ca>; Oliver Olberg <OOlberg@rvanderson.com>; Matthew de Wit <MdeWit@rvanderson.com>
Subject: RE: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

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Hi Andrew,

Thank you for you email. The SWM memo and Hydrogeological report are currently under review by the technical staff. We will follow up with you directly should there be any questions.

Best Regards,

Emma Benko
Planner
Infrastructure Planning and Permits | Development and Engineering Services

T: (416) 661-6600 ext. 5648
E: emma.benko@trca.ca

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: Friday, December 4, 2020 11:43 AM
To: Emma Benko <emma.benko@trca.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Caroline Mugo <Caroline.Mugo@trca.ca>; Oliver Olberg <OOlberg@rvanderson.com>; Matthew de Wit <MdeWit@rvanderson.com>
Subject: RE: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

Hi Emma,

Please see the Memo outlining the existing condition and SWM recommendations for the Regional Road 50 Drainage Improvements EA study in the link below. We have also included the completed hydrogeological assessment as well. We would very much appreciate your prompt review and comment on the preliminary recommendations in a timely manner. We are hoping to present the study recommendations to the public in January, following the holiday break. Please advise if you require any additional information to assist in your review. The Natural Environment Report will also be provided as soon as its complete.

Kind regards,

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Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals

P: (905) 685-5049 ext. 4211
C: (905) 964-4056

R.V. Anderson Associates Limited
43 Church Street, Suite 104, St. Catharines, ON L2R 7E1

rvanderson.com

From: Caroline Mugo <Caroline.Mugo@trca.ca>
Sent: November 30, 2020 4:17 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; Emma Benko <emma.benko@trca.ca>
Subject: RE: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

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Hi Courtney,
TRCA staff has reviewed the meeting minutes and has made 2 edits. There is a correction as the new TRCA contact will now be Emma Benko (also cc'd on this email). It is our understanding that you will provide us with further details on the rationale behind the removal of some of the existing swales. Although the existing swales may not add water quality

control for the road, they may provide ecological benefits. As per the minutes please circulate this information for our review.

Kind regards,

Caroline Mugo, Ph.D
Planner, Infrastructure Planning and Permits
Development and Engineering Services Division

T: (416) 661-6600 ext. 5689
E: caroline.mugo@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

Toronto and Region Conservation Authority

From: Courtney Row <CRow@rvanderson.com>
Sent: Tuesday, November 17, 2020 4:45 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

Dear Sir/Madam,

Thank you for participating in the 2nd Technical Advisory Committee Meeting for the Regional Road 50 Drainage Improvements Environmental Assessment held on October 30th, 2020.

Please find attached for your review and comment 1. the draft meeting notes, 2. preliminary plans showing the proposed multi -use path and storm water management recommendations and 3. summary of the low impact development strategy.

If you have any difficulty with any of the attachments, kindly reply to this email and I will assist you.

To make edits or to request clarification on any information provided please reach out to Syeda Banuri (Region of Peel) or Andrew McGregor (R.V. Anderson Associates Limited) directly by November 27th, 2020.

Thank you very much for your time and consideration.

Regards,

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To: Banuri, Syeda
Subject: RE: RR50 Meeting Notes and Other Items

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: January 29, 2021 8:33 AM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Cc: Peter Cho <pcho@rvanderson.com>; Oliver Olberg <OOlberg@rvanderson.com>; Courtney Row <CRow@rvanderson.com>
Subject: Re: RR50 Meeting Notes and Other Items

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Hi Andrew,
Yes, please include me in the meeting with TRCA.
What follow up is required re the flooding at George Bolton intersection? I don't remember fully so it would be helpful to refresh my memory. I think you received a response from Cassie earlier and I also forwarded the information from archives.
Thanks.
Syeda

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From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: Thursday, January 28, 2021 9:59:44 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Peter Cho <pcho@rvanderson.com>; Oliver Olberg <OOlberg@rvanderson.com>; Courtney Row <CRow@rvanderson.com>
Subject: RE: RR50 Meeting Notes and Other Items

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hi Syeda,
We need to arrange for a meeting with TRCA to discuss HEC-Ras hydraulics and flows in Rainbow Creek. Did you want to be included in that? Also, were you able to follow up re evidence of road flooding at RR50/ George Bolton intersection? We need both of this info to push forward with the model.
Regards,

rva
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Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals
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C: (905) 964-4056
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rvanderson.com

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From: Andrew McGregor
Sent: January 22, 2021 2:14 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Peter Cho <pcho@rvanderson.com>; Oliver Olberg <OOlberg@rvanderson.com>; Courtney Row <CRow@rvanderson.com>
Subject: RE: RR50 Meeting Notes and Other Items

Syeda,

In my last email I forgot to include the attached prepared by our design team following our last meeting, which outlines where we stand with the modelling exercise and some of the issues we're currently trying to solve. In particular, I'd like to direct your attention to Figure 2 re evidence of flooding near George Bolton Blvd.

As usual, if you have any questions, please don't hesitate to ask.

Regards,

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MEETING MINUTES

Project 194615 Regional Road 50 (Mayfield to Healey) - Peel Region

DATE: February 3rd, 2021

PLACE: Online

PROJECT NO.: **194615**

PRESENT: Jairo Morelli – JM (TRCA)
Emma Benko - EB (TRCA)
Syeda Banuri – SB (Peel Region)
Andrew Mc Gregor – AM (RVA)
Matthew De Wit - MDW (RVA)
Oliver Olberg – OO (RVA)

APOLOGIES: Peter Cho (RVA)
Sadman Soumik (RVA)

Purpose of the meeting: Discussion of modelling Issues (HEC-Ras model and Infoworks model along RR50)

	DISCUSSION:	**ACTION BY:**
1.	RVA is currently working on behalf of Peel Region to produce an EA study to upgrade RR50 between Mayfield Road and Healey Road. Our subcontractor Matrix has used the TRCA HEC-Ras model for Rainbow Creek to update the model with site survey information and to add missing culverts to the model. We have not changed flow hydraulics and re-run the model with the culvert updates. Of particular concern is the culvert crossing at the intersection of RR50/ George Bolton Parkway, where Rainbow Creek enters a 600 mm CSP pipe and merges with a 900 mm CSP pipe (intake for road drainage flows). Please see Figure 2 illustration in the PDF attached. At the road intersection, the culvert size increases to a rectangular box culvert 1200mm x 1890 mm size. The model shows flooding of the intersection starting from a 2-year design flow up to the Regional event. Since we have not received any indication of flooding issues at this location, we believe that the model is largely overpredicting flows in Rainbow Creek. We have further taken the HEC-Ras model data into Infoworks modelling software to integrate the Creek model with the detailed road runoff model.	INFO

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DISCUSSION: **ACTION BY:**

RVA's main concern is that the model predicts road flooding at every design storm event, therefore requiring larger road crossing culvert upgrades that may not actually be required.

2. JM suggested that RVA modify the HEC-Ras model and have the proposed changes reviewed by TRCA for acceptance. It was noted that making the HEC-Ras model comply with current crossing capacities would require major flow changes (i.e. 90% flow reduction) for which we have limited foundation or background to make such changes. TRCA to review the HEC-Ras model flows and advise RVA if the flows can be changed. — TRCA/ RVA

3. SB is not aware of any reported flooding at the road intersection of RR50/ George Bolton Parkway. SB to confirm with Region Operations and advise RVA if any other flooding information becomes available. — SB

4. Further discussions were held with regards to Figure 1 on the attached PDF file (i.e. created drainage area to the north of the study site). JM and OO agreed that there are no concerns with the current approach to size flows to fit the current railway crossing but at the same time TRCA is less concerned or responsible for modeled flows that originate from private properties. Should further information about private property drainage become available, this will be incorporated into the IW model. — INFO

5. A discussion was held with regards to Figure 3 on the attached PDF file. JM will review if TRCA holds any discharge related information on the stormwater management pond for the development site. — TRCA

Post Meeting Note: SWM Report was provided to RVA from the Town

Subsequent discussion with SB/ OO/AM

6. SB suggested to place a level monitor and rain gauge at the upstream section of Rainbow Creek to monitor spring runoff flows to see if there is any correlation to the current HEC-Ras model predictions. This approach could help eliminate risks associated with the downsizing of HEC-Ras flows and avoid oversizing the road crossing culverts. This initiative should lead by TRCA but Peel may be willing to fund the exercise. — TRCA

RVA requests TRCA to comment on this proposal.

Minutes prepared by: Oliver Olberg

Distribution: all attendees

document2

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To: Banuri, Syeda
Subject: RE: TRCA Annual Regulation Mapping Update, 2020 (Action Required - Data Sharing Agreement)

From: Mary-Ann Burns <MaryAnn.Burns@trca.ca>
Sent: March 15, 2021 5:21 PM
To: Farouque, Althaf <althaf.farouque@peelregion.ca>; Parente, Anthony <anthony.parente@peelregion.ca>; Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>; Johnston, Cam <cam.johnston@peelregion.ca>; Moffitt, Craig <craig.moffitt@peelregion.ca>; Anderson, Gail <gail.anderson@peelregion.ca>; Lum-Yip, Jason <jason.lum-yip@peelregion.ca>; Hardcastle, John <john.hardcastle@peelregion.ca>; justin.mott@peelregion.ca; Lockyer, Kathryn <kathryn.lockyer@peelregion.ca>; Farrugia, Kevin <kevin.farrugia@peelregion.ca>; Miller, Learie <learie.miller@peelregion.ca>; Thomsen, Lori-Ann <lori-ann.thomsen@peelregion.ca>; Centrone, Mark <mark.centrone@peelregion.ca>; Head, Mark <mark.head@peelregion.ca>; Schiller, Mark <mark.schiller@peelregion.ca>; Amaral, Patrick <patrick.amaral@peelregion.ca>; Razao, Ricardo <ricardo.razao@peelregion.ca>; Paquette, Samantha <samantha.paquette@peelregion.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>; Koethe, Wayne <wayne.koethe@peelregion.ca>; andrew.whittemore@mississauga.ca; diana.rusnov@mississauga.ca; eniber.cabrera@mississauga.ca; Ezio.Savini@mississauga.ca; Geoff.wright@mississauga.ca; Greg Frew <greg.frew@mississauga.ca>; hung.giang@mississauga.ca; jamie.ferguson@mississauga.ca; james.silburn@mississauga.ca; jordan.lee@mississauga.ca; julius.lindsay@mississauga.ca; karen.crouse@mississauga.ca; lesley.pavan@mississauga.ca; Lisa.Christie@mississauga.ca; Cassin, Marianne <marianne.cassin@mississauga.ca>; nicole.hanson@mississauga.ca; rajni.gupta@mississauga.ca; sandra.neal@mississauga.ca; allan.parsons@brampton.ca; averyl.dsouza@brampton.ca; bernie.steiger@brampton.ca; claudia.larota@brampton.ca; gaea.oake@brampton.ca; lillyan.mcginn@brampton.ca; Goolsarran, Mario <mario.goolsarran@brampton.ca>; michael.won@brampton.ca; paul.postiglione@brampton.ca; Rob.Elliott@brampton.ca; Kassaris, Stavroula <stavroula.kassaris@brampton.ca>; Kocialek, Tim <Tim.Kocialek@brampton.ca>; peter.fay@brampton.ca; bailey.loverock@caledon.ca; casey.blakely@caledon.ca; laura.hall@caledon.ca; Lea.Steenhoek@caledon.ca; melissa.yardy@caledon.ca; Rob.Hughes@caledon.ca; ruchira.welikala@caledon.ca; stephanie.mcvittie@caledon.ca; angi.mitchell@caledon.ca; andrew.pereira@caledon.ca; Planning@townofmono.com; ClerksOffice@townofmono.com; PublicWorks@townofmono.com; abyl@adjtos.ca; rreid@adjtos.ca; dsitland@adjtos.ca; jtschekalin@adjtos.ca; mgiles@adjtos.ca; rwinder@adjtos.ca
Cc: Laurie Nelson <Laurie.Nelson@trca.ca>; Jeff Thompson <jeff.thompson@trca.ca>; Matthew Wianecki <Matthew.Wianecki@trca.ca>; Quentin Hanchard <Quentin.Hanchard@trca.ca>; Suzanne Bevan <Suzanne.Bevan@trca.ca>; Jason Tam <jason.tam@trca.ca>; Steven Ling <Steven.Ling@trca.ca>; Mike Todd <Mike.Todd@trca.ca>; Rehana Rajabali <rehana.rajabali@trca.ca>; Laura DelGiudice <Laura.DelGiudice@trca.ca>
Subject: [WARNING: MESSAGE ENCRYPTED]TRCA Annual Regulation Mapping Update, 2020 (Action Required - Data Sharing Agreement)

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Good afternoon,

Toronto and Region Conservation Authority (TRCA) is pleased to inform its municipal partners that it has completed an annual update to the mapping that shows the TRCA Regulated Area across our jurisdiction.

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Some of you may recall that TRCA undertook a jurisdiction-wide update to its Regulation mapping in 2019. At that time, the TRCA Board of Directors at Meeting #6/19, held on Friday June 21, 2019, passed the following Resolution A116/19:

THAT staff continue to make updates to the Regulation mapping on an annual basis;

The annual update to the TRCA regulation mapping for 2020 is complete; staff reported to TRCA's Executive Committee and Board of Directors in January 2021 on this update. As noted in the January 2021 TRCA Board report (also see attached Resolution A222/20), the mapping updates are based on:

- Adjustments to flood hazard limits as a result of updated floodplain mapping (for more information, please see the September 25, 2020 TRCA Board report);
- Changes to natural features and hazards resulting from as-built development (e.g., watercourse channel realignments);
- Revised wetland and Area of Interference limits associated with new and updated wetland evaluations and wetland identification mapping by MNRF and TRCA;
- Reductions to wetland Areas of Interference (to 30m from 120m) in built-up urban areas (i.e., resulting from updates to the "Greater Golden Horseshoe Built Boundary" by TRCA staff to reflect current as-built developments/areas – more explanation on this is provided below); and,
- General refinement of regulated features resulting from detailed site examination and field verification of properties through the development and infrastructure review processes (e.g., top of bank staking and/or site visits, analysis of technical submissions).

The 2020 mapping of the TRCA Regulated Area with supporting criteria layers can be viewed HERE on TRCA's website. Because the 2020 mapping update followed on the heels of the 2019 mapping update, the areas of change are relatively minor. For your reference, the mapping viewer includes an "Areas of Change" layer that compares the 2019 and 2020 mapping, depicting areas captured and areas removed.

TRCA's Regulated Area Search page is another public online resource that shows the 2020 Regulated Area over parcel fabric, but without the associated criteria layers.

Please read the following important messages about the annual update and **note the action required for signing a Data Sharing Agreement.**

No Changes to the Text of TRCA's Regulation

Only the mapping has been updated. There are no legislative changes to the text of Ontario Regulation 166/06. The amendments to the *Conservation Authorities Act* under schedule 6 of Bill 229 (approved as part of the *Protect, Support and Recover from COVID-19 Act* (Budget Measures), 2020), do not affect the 2020 regulation mapping update. TRCA's Regulation remains in effect until such time as the Province of Ontario establishes a new regulation for all conservation authorities under the new section 28 of the Act.

The regulation limit is not the same as a development limit

The regulated area represents areas of interest to TRCA due to the presence of natural features and hazards. Rather than a development limit, the regulated area mapping indicates where:

- Development must consider possible constraints from natural hazards or features.

- A permit is required from TRCA before a regulated activity can occur.

A development limit represents the point to which development can extend. It is established and agreed to by TRCA during the permit application process, based on the presence of natural hazards and features. In the case of a *Planning Act* application, the municipality is the decision maker regarding where the development limit should fall; TRCA's role is to advise the municipality on this decision where development affects TRCA regulated areas.

Streamlining for 120m Area of Interference around wetlands

As explained in the TRCA 2019 staff report on the previous mapping update, in response to stakeholder comments about the 120m regulated area around wetlands (Area of Interference or AOI), staff undertook a streamlining exercise to reduce the extent of the AOI from 120m to 30m for mapped wetlands within the Greater Golden Horseshoe Built Boundary (as updated by TRCA staff for developments built since 2006). As a result, many of the built-up urban areas throughout the jurisdiction are no longer within the 120m AOI and fall outside the Regulated Area. For mapped wetlands outside the Built Boundary, the 120m AOI on the Oak Ridges Moraine and for Provincially Significant Wetlands has been maintained in the mapping. Please note that all wetlands regardless of size or significance are regulated, but for manageability, generally only wetlands 0.5 hectares and above are mapped.

Annual ongoing updates

TRCA staff recognize that information revealed through technical studies and field work in the development (*Planning Act*) and/or infrastructure (*Environmental Assessment Act*) review processes may be more current than what's shown in the regulation mapping. Although we try our best to keep the mapping as up to date as possible, it often takes time to "catch up" to as-built conditions stemming from the rapid pace of growth and intensification. If you do have new, as-built information about a site that warrants an update to the mapping criteria layers, please forward it to me at maryann.burns@trca.ca. TRCA staff are compiling this information in a database for the next annual mapping update late this year.

Distribution of Regulated Area mapping GIS files to municipal staff – PLEASE NOTE: ACTION REQUIRED

Kindly coordinate a single point of contact for your municipality to fill in, sign and return a Data Sharing Agreement to this email address (maryann.burns@trca.ca), for TRCA's release of the GIS data of the 2020 TRCA Regulation Limit. Once the municipal designate contacts me, I can send them the Agreement for signing. As stated in the Agreement, the data may be used by municipal staff at municipal walk-in counters and for municipal staff review in Planning, Zoning, Building and Infrastructure departments. Please note the GIS files are not for distribution beyond your municipality, as outlined in the data sharing agreement.

Annual Mapping Updates and Data Sharing Agreements

For the 2020 annual update, we have added clauses to the Data Sharing Agreement to allow for annual updates (see section 1.1.1), eliminating the need for the municipality and TRCA having to sign back every year going forward.

How can we assist you?

For any general questions on interpretation of the mapping, or if you would like to request a TRCA training session for your staff, please contact me at maryann.burns@trca.ca or (416) 661-6600 ext. 5763.

For mapping questions specific to development or infrastructure planning or permitting files, please contact the TRCA planning staff serving your municipality as listed below.

Brampton, Mississauga:

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Lina Alhabash – lina.alhabash@trca.ca – 416-661-6600 ext. 5657 (development planning)

Suzanne Bevan – suzanne.bevan@trca.ca – 416-661-6600 ext. 5759 (infrastructure planning)

Adjala-Tosorontio, Caledon, King, Mono:

Andrea Terella – andrea.terella@trca.ca – 416-661-6600 ext. 6447 (development planning)

Suzanne Bevan - suzanne.bevan@trca.ca – 416-661-6600 ext. 5759 (infrastructure planning)

We appreciate our municipal partners' role in screening applications and proposals for TRCA's Regulated Area and welcome any feedback you may have on the annual regulation mapping update process.

Thank you,

Mary-Ann Burns, MCIP RPP
Senior Manager, Provincial and Regional Policy
Planning Policy and Regulation | Policy Planning

T: (416) 661-6600 ext. 5763
C: (647) 406-3906
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MEETING MINUTES

Project 194615 Regional Road 50 (Mayfield to Healey) - Peel Region

DATE: April 26, 2021

PLACE: Online

PROJECT NO.: **194615**

PRESENT: Jairo Morelli – JM (TRCA)
Emma Benko - EB (TRCA)
Dilnesaw Chekol – DC (TRCA)
Mahdi Esmaeli – ME (TRCA)
Suzanne Bevan – SB (TRCA
Syeda Banuri – SB (Peel Region)
Andrew Mc Gregor – AM (RVA)
Oliver Olberg – OO (RVA)

APOLOGIES: Peter Cho (RVA)
Sadman Soumik (RVA)

Purpose of the meeting: Discussion of high peak flows predicted in TRCA's HEC – RAS model and resultant infrastructure upgrades.

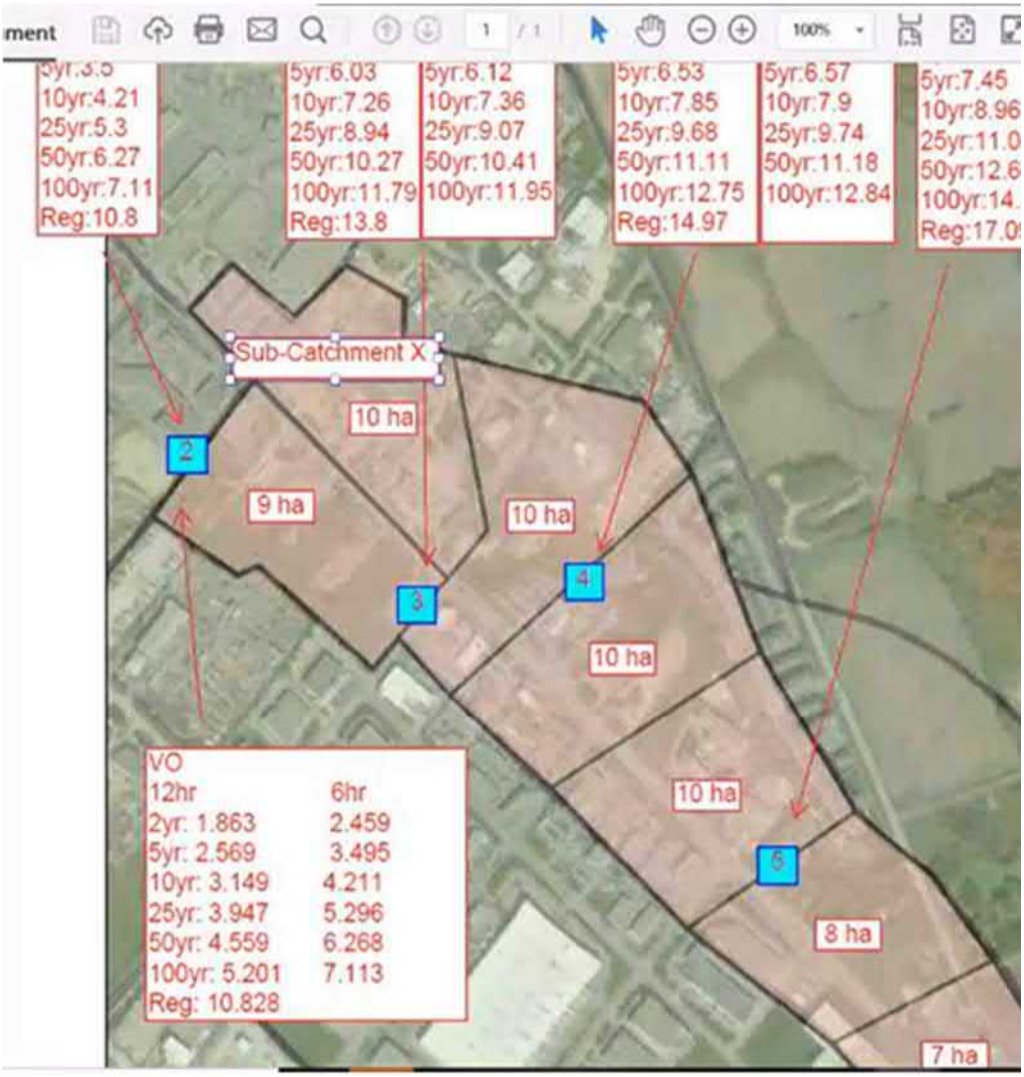
	DISCUSSION:	**ACTION BY:**
1.	Region/RVA initiated the meeting with an overview of the project and team introductions.	INFO
2.	RVA discussed concerns over the high peak flows in relation to the relatively small watershed size that are predicted in TRCA's HEC - RAS model for Robinson Creek and the resultant major culvert upgrades required at George Bolton Parkway, and approx. $1M in additional cost. RVA noted the significant discrepancy between the TRCA's Hec-Ras and OttHymo model flows provided for the recent Caledon Roads projects.	INFO
3.	TRCA explained how the hydrologic model was derived for the Visual Otthymo (VO) model and the HEC-Ras model watershed, what catchments were used to calculate flows, and what differences were made in comparison to the VO model.	INFO
4.	The VO model was calibrated based on observed data from stream gauges (at point #2 and point #6), the observed flows for 6hr and 12 hr duration storms were in line with expected flows from design rainfall. On TRCA's catchment map, catchment points #2 and #6 were known points where flow could be compared to stream gauge measurements. Flow	INFO

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DISCUSSION: **ACTION BY:**

points #3,#4, #5 were calculated based on flows from #6 and by deducting catchment areas, which is the standard TRCA approach, However the method produces conservative flows for point 3, when compared to the adjacent point 2 (illustrated below).



5. The VO model uses a 12 hr and 6hr AES storm to generate flows, while the HEC-Ras model uses a 6hr AES storm to generate flows. The 6 hr AES storm generates higher peak flows than the 12hr ES storm. INF

6. TRCA acknowledged that using the 12 hrs AES storm for the HEC-Ras model would be acceptable to reduce peak flows but to keep the Regional storm flows as per existing model (13.8m3/s) and compare the floodplain extent with the proposed design scenario. The aim is to reduce the flood extent upstream of the George Bolton culvert crossing or at least keep the same- Regulatory storm is important for Floodplain management for TRCA. INFO

DISCUSSION:		**ACTION BY:**
	TRCA to send new HEC-Ras model with revised 12hr duration storm flows and copy of catchment map or full hydrology report.	TRCA
7.	RVA to re-run the hydraulic model with the revised flows and re-design George Bolton culvert crossing.	RVA
8.	Peel is currently conducting flow monitoring at the downstream end of the George Bolton culvert crossing – planned for 3 month duration. Flow monitoring was initiated on April 20, 2021.	INFO
9.	RVA/ Peel flow monitoring data to be used to support argumentation for reducing peak flows.	INFO/RVA
10.	Region noted that the draft Stormwater Management Report has been provided to the TRCA but that additional revisions would be required following the meeting. RVA to revise report and provide to the Region for review.	RVA
11.	Region noted their intention to consider adding sidewalk along the east side of the corridor, in addition to the multli-use path recommended along the west side. Any potential sidewalk facility would most likely require filling in the existing ditches. RVA/Region to follow up with an email to TRCA requesting their input on the feasibility.	Region/RVA
12.	Region and TRCA agreed that the project should have TRCA's approval in principal prior to being presented at the PIC.	INFO

Minutes prepared by: Andrew McGregor

Distribution: all attendees

document2

PLEASE ADVISE THE WRITER OF ANY ERRORS OR OMISSIONS WITHIN 1 WEEK OF RECEIPT OF THESE MINUTES

From: Emma Benko <emma.benko@trca.ca>
Sent: Tuesday, March 1, 2022 9:09 PM
To: Banuri, Syeda
Cc: Courtney Row; Andrew McGregor
Subject: CFN 64906 - Region of Peel Highway 50 Drainage Improvements EA and Preliminary Design - TRCA response to Draft Reports

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hi Syeda,

Staff had the opportunity to review the draft supporting documents for the above noted project submitted on January 6, 2022. Please see attached our response.

Apologies for the late response. Thank you,

Emma Benko (she, her, hers)
Planner
Infrastructure Planning and Permits | Development and Engineering Services

T: (416) 661-6600 ext. 5648
E: emma.benko@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

Toronto and Region Conservation Authority

Region of Peel
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March 1, 2022 CFN 64906

BY E-MAIL ONLY (e-mail address)

Syeda Banuri
Regional Municipality of Peel
10 Peel Centre Drive, Suite B, 4th Floor
Brampton, ON

Dear Syeda Banuri,

Re: Draft Reports and Draft Plans
Highway 50 Drainage Improvements
Class Environmental Assessment – Schedule B
Humber River Watershed; Town of Caledon; Regional Municipality of Peel

Toronto and Region Conservation Authority (TRCA) staff received the draft Cultural Heritage Assessment dated 20 October 2020, Draft Fluvial Geomorphology and Hydraulic Assessments dated November 2021, Draft Geotechnical Investigation Report dated September 17, 2020, Draft Hydrogeological Investigation Report October 7, 2021, Draft Natural Heritage Report Impact Assessment dated November 2021, Draft Phase I Environmental Site Assessment May 8 2020, Roll Plan Design Concept, Draft Stage 1 Archaeological Assessment July 29, 2020 and Draft Stormwater Management Report dated November 15, 2021 on January 6, 2022.

PROJECT OVERVIEW

Staff understands that this Municipal Class Environmental Assessment (Class EA) study will examine drainage improvements along Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon. The culverts and drainage ditches are in poor condition and require improvement and upgrading. To address this, the study will consider best industry practices, satisfy climate change requirements and comply with existing and future regulatory requirements.

As part of the project, active transportation improvements along the corridor will also be developed in accordance with the recommendations of the Region's Sustainable Transportation Strategy (STS)

PROJECT REVIEW

While staff support the proposed drainage strategy, the following concerns must be addressed in the final EA document. Additional detailed comments are provided in Appendix A. These comments should be included as an appendix in the final EA report.

RESUBMISSION REQUIREMENTS

Please ensure that TRCA staff receives one (1) digital copy of the draft ESR/EA document. The draft EA document should be accompanied by a covering letter that uses the numbering scheme provided in this letter and identifies how these comments have been addressed. Digital materials must be submitted in PDF format, with drawings pre-scaled to print on 11"x17" pages. Materials may be submitted on discs, via e-mail (if less than 5 MB), or through file transfer protocol (FTP) sites (if posted for a minimum of two weeks).
Should you have any questions or require any additional information please contact me at extension 5648 or at emma.benko@trca.ca.

Regards,

Emma Benko
Planner, Infrastructure Planning and Permits
Development and Engineering Services

Attached: Appendix A

BY E-MAIL

cc: Consultant: Andrew McGregor, R.V. Anderson (AMcGregor@rvanderson.com)
TRCA: Suzanne Bevan, Senior Manager, Infrastructure Planning and Permits

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APPENDIX A: TRCA COMMENTS AND PROPONENT RESPONSES

ITEM	TRCA COMMENTS (March 1, 2022)	PROPONENT/CONSULTANT RESPONSE (July 29, 2022)
Stormwater Management		
1.	Staff is aware of the current constraints to achieve the required SWM control for the proposed road improvement and, consider that water quantity control (as the imperviousness remains the same) may not be necessary. However, water quality, erosion and water balance control should be provided regardless of the current condition of the subject road. The TRCA will require the provision of an enhanced level of protection (80% TSS removal), and a minimum of 5.0mm onsite retention for erosion and water balance control. Please provide us with the supporting calculations and locations to demonstrate the proposed measures would be feasible and able to achieve the required level of control. It should be noted that the TRCA would credit 50% efficiency on oil and grit separators. However, the unit should be sizing targeting 80% removal.	80% TSS removal will not be possible for most of the project length due to high ground water, utility constraints and limited corridor width. A best-efforts approach is proposed to achieve at least 75% TSS removal by use of OGS units and CB Shields. This will result in a large improvement over existing conditions and will more than compensate for the additional impervious area proposed from the MUP. 5mm retention is proposed for the bioswales but is generally not achievable north of Bolton Parkway.
2.	Staff support the proposed drainage strategy and are confident that the proposed culverts, especially the one located at George Bolton Parkway and Highway #50 (Culvert 1), will perform better than it currently does. However, the InfoWorks model is not robust enough to properly capture the hydraulic complexity of the existing culvert system and to demonstrate that there will be a reduction in flood depth or extent of the floodplain as indicated in the SWM report by RVA. In principle, staff have no concerns with the proposed Culvert 1. However, further assessment (valid hydraulic model/approach) will be required should the Region be interested in evaluating the flooding condition at the intersection and adjacent properties once the upgrades are completed.	Noted. This can be completed as part of the detailed design if desired by TRCA and Region.
3.	Staff appreciates the proponent's effort in installing a flow monitor and rain gauge at the RR50 and George Bolton Parkway intersection. Although the values obtained by the monitoring system provide us with valuable details on recent storm events, TRCA staff believe the time since the equipment has	Noted.

	been installed is not sufficient to properly create a regression analysis or predict the current site's' flooding condition.	
4.	It appears the Fluvial Geomorphology and Hydraulic draft by Matrix provided an update of the existing HEC RAS model but did not simulate the proposed conditions (upgrade of culverts 1 to 8). Please clarify or provide a digital copy of the HEC RAS model including updated/existing and proposed conditions in separate files.	The purpose of the fluvial geomorphic and hydraulic assessment was to provide a baseline understanding and inventory of the existing channel condition and culvert facilities within the study area, in the context of the planned active transportation alternatives and improvements. Given the limited interaction between the proposed active transportation facilities and the existing channel/culvert features the hydraulic assessment of any proposed culvert modifications can be undertaken during the detailed design phase of the project.
5.	Staff defers the review of the proposed upgrade/adjustment to the existing municipal storm sewer network and the validity of the InfoWorks model results.	Comments noted.
Planning Ecology		
6.	From the plans and Draft Natural Heritage Assessment it appears as if there are a few impacts to wetland communities that have not been mitigated. As a result, please provide the quantity of wetland habitat that will be permanently removed from these proposed works and provide adequate compensation. Please refer to TRCA's Compensation Protocol for additional information.	The proposed improvements will result in an impact/loss of approximately 149 m2 of MAS community (Shallow Marsh) and 141 m2 of MAS2-1 (Cattail Mineral Shallow Marsh Type) for a total loss of

		approximately 290 m2 of wetland community. As part of TRCA's Compensation Protocol, to offset for the loss of natural wetland and woodland habitat in their watershed, they have implemented an offsetting ratio of 1:1 (replacement: loss) for wetlands. However, as this is a municipal infrastructure project, further discussion between the TRCA and the Region will be required to discuss the details of this undertaking.
7.	Please clearly identify the watercourse and wetlands on all drawings.	Watercourse and wetlands are identified on Figures 3A – 3C of Appendix 3.
8.	Please minimize impacts to the natural heritage features to the extent possible.	Agreed. Minimizing impacts to the natural environment were a key criterion in the development in the study recommendations. The Project File Report and Appendix 3 include detailed mitigation measures to minimize impacts to the natural heritage features to the extent possible.
Erosion and Sediment Control		
9.	An Erosion and Sediment Control (ESC) report and plan will be required at the detailed design stage. The ESC plan shall be in alignment with the TRCA ESC Guide for Urban Construction (December 2019	Agreed. Project File Report includes commitment to prepare a Sediment and

		Erosion Control Plan in alignment with the TRCA ESC Guide for Urban Construction (December 2019).
General		
10.	Please ensure TRCA's Standard Notes are on all site plans at the detailed design stage.	Project File Report includes commitment to include TRCA's Standard Notes on all site plans at the detailed design stage.

From: Emma Benko <emma.benko@trca.ca>
Sent: Friday, April 22, 2022 4:40 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Good Afternoon Syeda and Andrew,

TRCA staff had the opportunity to review the PIC 2 boards and have no comments to offer. Thank you for including us in the circulation, we look forward to reviewing the updated technical studies when they are available.

Thank you and have a good weekend,

Emma Benko (she, her, hers)
Planner
Infrastructure Planning and Permits | Development and Engineering Services

T: (416) 661-6600 ext. 5648
E: emma.benko@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

Toronto and Region Conservation Authority

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Thursday, March 10, 2022 2:20 PM
To: Saini, Sakshi <sakshi.saini@peelregion.ca>; Emma Benko <emma.benko@trca.ca>; Susan Bevan <susan.bevan@trca.ca>; Jairo Morelli <Jairo.Morelli@trca.ca>; Garbos, Olek <olek.garbos@peelregion.ca>; Reinders, Jamie <jamie.reinders@peelregion.ca>; Arash Olia <arash.olia@caledon.ca>; Ryan Grodecki <ryan.grodecki@caledon.ca>; Tatla, Manvir <manvir.tatla@peelregion.ca>; Crawford, Mark <mark.crawford@peelregion.ca>; Despins, Christopher <christopher.despins@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; Kant Chawla <Kant.chawla@caledon.ca>; Bennington, Michael <michael.bennington@peelregion.ca>; Hassan, Mohammad <mohammad.hassan@peelregion.ca>; rojan.mohammadi@peelregion.ca; Shan, Rosalie <rosalie.shan@peelregion.ca>; Quigley, Brandon <brandon.quigley@peelregion.ca>; Gardiner, Len <len.gardiner@peelregion.ca>; Ponce Vanelli, Italia <italia.ponce@peelregion.ca>; Cassie Schembri <Cassie.Schembri@caledon.ca>; Jay Menary <jay.menary@caledon.ca>; Shun Cheung <shun.cheung@caledon.ca>; Estephan, Therese <therese.estephan@peelregion.ca>; Zia, Solmaz <solmaz.zia@peelregion.ca>; Borowiec, Laura <laura.borowiec@peelregion.ca>; Sabrina Davidson <sabrina.davidson@caledon.ca>; Jamroz, Damian <damian.jamroz@peelregion.ca>; Caughey, Rebecca <rebecca.caughey@peelregion.ca>; Saddi, Asha <asha.saddi@peelregion.ca>; Chan, Andrea <andrea.chan@peelregion.ca>; Garbos, Olek <olek.garbos@peelregion.ca>; Nezami, Sona <sona.nezami@peelregion.ca>; Saddi, Asha <asha.saddi@peelregion.ca>

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Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Courtney Row <CRow@rvanderson.com>
Subject: RE: Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2

Sorry, the Notice was not attached with the following email.
Regards,

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Banuri, Syeda
Sent: March 10, 2022 2:13 PM
To: Saini, Sakshi <sakshi.saini@peelregion.ca>; 'Emma Benko' <emma.benko@trca.ca>; 'Susan Bevan' <susan.bevan@trca.ca>; 'Jairo Morelli' <jairo.morelli@trca.ca>; Garbos, Olek <Olek.Garbos@peelregion.ca>; Reinders, Jamie <jamie.reinders@peelregion.ca>; 'Irene Shepherd' <arash.olia@caledon.ca>; 'Ryan Grodecki' <ryan.grodecki@caledon.ca>; Tatla, Manvir <Manvir.Tatla@peelregion.ca>; Crawford, Mark <Mark.Crawford@peelregion.ca>; Despins, Christopher <Christopher.Despins@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; 'Kant Chawla' <kant.chawla@caledon.ca>; Bennington, Michael <Michael.Bennington@peelregion.ca>; Hassan, Mohammad <Mohammad.Hassan@peelregion.ca>; 'rojan.mohammadi@peelregion.ca' <rojan.mohammadi@peelregion.ca>; Shan, Rosalie <rosalie.shan@peelregion.ca>; Quigley, Brandon <Brandon.Quigley@peelregion.ca>; Gardiner, Len <Len.Gardiner@peelregion.ca>; Ponce Vanelli, Italia <Italia.Ponce@peelregion.ca>; 'Cassie Schembri' <cassie.schembri@caledon.ca>; 'Jay Menary' <jay.menary@caledon.ca>; 'Shun Cheung' <Shun.cheung@caledon.ca>; Estephan, Therese <Therese.Estephan@peelregion.ca>; Zia, Solmaz <Solmaz.Zia@peelregion.ca>; Borowiec, Laura <laura.borowiec@peelregion.ca>; 'Sabrina Davidson' <sabrina.davidson@caledon.ca>; Jamroz, Damian <Damian.Jamroz@peelregion.ca>; Caughey, Rebecca <Rebecca.Caughey@peelregion.ca>; Saddi, Asha <Asha.Saddi@peelregion.ca>; Chan, Andrea <andrea.chan@peelregion.ca>; Garbos, Olek <Olek.Garbos@peelregion.ca>; Nezami, Sona <sona.nezami@peelregion.ca>; Saddi, Asha <Asha.Saddi@peelregion.ca>
Cc: Rook, Sally <Sally.Rook@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; 'Courtney Row' <CRow@rvanderson.com>
Subject: Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2

Warm Greetings,

Please find attached the Notice of Public Information Centre (PIC) 2 for the Schedule “B” Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region’s Sustainable Transportation Strategy.

The study will consider best management practices, to satisfy climate change requirements and comply with existing and future regulatory requirements.

In developing recommendations, all reasonable alternatives are being considered to minimize impacts on adjacent businesses and the surrounding environment.

The intent of this email is to notify you of study progression, updates to the project and to ensure that anyone with an interest in this study has the opportunity to be involved and provide input.

On March 17, 2022, Public Information Centre (PIC) 2 will be posted to the study website. All content and instructions on how to provide feedback and submit questions is outlined on the Region of Peel project website:

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration.

Please, let me know if you have any questions or comments.

Kind regards,

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
cell: 416-407-7860

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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: August 15, 2022 12:08 PM
To: Courtney Row
Subject: RE: CFN 64906 - Region of Peel Highway 50 Drainage Improvements EA and Preliminary Design - TRCA response to Draft Reports

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi Courtney,
Please, also confirm if you have receive a couple of other internal RoP comments forwarded by me. The emails kept bouncing a few times. I hope hey were finally delivered.
Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Courtney Row <CRow@rvanderson.com>
Sent: August 15, 2022 12:06 PM
To: Emma Benko <emma.benko@trca.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: CFN 64906 - Region of Peel Highway 50 Drainage Improvements EA and Preliminary Design - TRCA response to Draft Reports

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hi Emma,

Thank you very much for your response. Please do let us know if we can assist in any way.

Kind regards,

arva

Courtney Row, C. Tech., CAN-CISEC (she / her)
FIELD / GIS TECHNICIAN

t 416 497 8600 ext. <1372> | m <647 285 9020>
a 2001 Sheppard Avenue East, Suite 300, Toronto, ON M2J 4Z8

Region of Peel
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From: Emma Benko <emma.benko@trca.ca>
Sent: August 9, 2022 1:34 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: CFN 64906 - Region of Peel Highway 50 Drainage Improvements EA and Preliminary Design - TRCA response to Draft Reports

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi Courtney,

Thank you for the Draft Project File Report submission. Staff are currently reviewing the package, I will reach out if there are any questions or clarifications.

Best Regards,

Emma Benko (She/Her)
Planner
Infrastructure Planning and Permits | Development and Engineering Services

T: (437) 880-2422
E: emma.benko@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

Toronto and Region Conservation Authority

From: Courtney Row <CRow@rvanderson.com>
Sent: Friday, July 29, 2022 1:36 PM
To: Emma Benko <emma.benko@trca.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: CFN 64906 - Region of Peel Highway 50 Drainage Improvements EA and Preliminary Design - TRCA response to Draft Reports

Good afternoon Emma,

This email is a follow – up to the response we received from the TRCA following the last review of Draft Technical Reports and preliminary alternative solutions recommendations for the Preliminary Design for Drainage Improvements of Highway 50 EA study.

Region of Peel working with you

The table provided highlighting study considerations was shared with members of the project team for review and response.

Please find attached the updated table which includes requested responses respecting the SWM targets, Upgrades, Modelling, Vegetation Community removals, Natural Heritage features, and ESC concerns.

The Project File Report will be distributed shortly to you and other Technical Agencies members documenting commitments and correspondence (including a copy of the attached table). Please contact the Project Managers, Syeda and Andrew, if you have any questions.

On behalf of the team, thank you for your consideration and input. We look forward to hearing back from you.

Have a wonderful long weekend!

rva

Courtney Row, CAN-CISEC (she / her)
FIELD / GIS TECHNICIAN

t 416 497 8600 ext. <1372> | m <647 285 9020>
a 2001 Sheppard Avenue East, Suite 300, Toronto, ON M2J 4Z8

rvanderson.com

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APPENDIX A: TRCA COMMENTS AND PROPONENT RESPONSES

ITEM	TRCA COMMENTS (March 1, 2022)	PROPONENT/CONSULTANT RESPONSE (July 29, 2022)	TRCA COMMENTS (August 31, 2022)
	Stormwater Management		
1.	Staff is aware of the current constraints to achieve the required SWM control for the proposed road improvement and, consider that water quantity control (as the imperviousness remains the same) may not be necessary. However, water quality, erosion and water balance control should be provided regardless of the current condition of the subject road. The TRCA will require the provision of an enhanced level of protection (80% TSS removal), and a minimum of 5.0mm onsite retention for erosion and water balance control. Please provide us with the supporting calculations and locations to demonstrate the proposed measures would be feasible and able to achieve the required level of control. It should be noted that the TRCA would credit 50% efficiency on oil and grit separators. However, the unit should be sizing targeting 80% removal.	80% TSS removal will not be possible for most of the project length due to high ground water, utility constraints and limited corridor width. A best-efforts approach is proposed to achieve at least 75% TSS removal by use of OGS units and CB Shields. This will result in a large improvement over existing conditions and will more than compensate for the additional impervious area proposed from the MUP. 5mm retention is proposed for the bioswales but is generally not achievable north of Bolton Parkway.	As mentioned in the consultant comment response, at least 75% of Total Suspended Soil (TSS) removal would be achieved by using Oil and Grit Separator (OGS) and Catch Basin (CB) shields. However, there isn't evidence or supporting calculations that demonstrate it. Consistent with TRCA Criteria, OGS units are recommended as pre-treatment devices or may be used as a part of a multi-component system (treatment train) to achieve Enhanced quality control. Please provide preliminary calculations, the unit number and the location where the proposed infiltration chambers, OGS and CB shields will be placed. Staff has noticed that in some instances a different consultant is retained to complete the detailed design of the project. Therefore, a clear indication and scope of work should be established at this stage rather than at later stages.
2.	Staff support the proposed drainage strategy and are confident that the proposed culverts, especially the one located at George Bolton Parkway and Highway #50 (Culvert 1), will perform better than it currently does. However, the InfoWorks model is not robust enough to properly capture the hydraulic complexity of the existing culvert system and to demonstrate that	Noted. This can be completed as part of the detailed design if desired by TRCA and Region.	Comment addressed, no further comments.

	there will be a reduction in flood depth or extent of the floodplain as indicated in the SWM report by RVA. In principle, staff have no concerns with the proposed Culvert 1. However, further assessment (valid hydraulic model/approach) will be required should the Region be interested in evaluating the flooding condition at the intersection and adjacent properties once the upgrades are completed.		
3.	Staff appreciates the proponent's effort in installing a flow monitor and rain gauge at the RR50 and George Bolton Parkway intersection. Although the values obtained by the monitoring system provide us with valuable details on recent storm events, TRCA staff believe the time since the equipment has been installed is not sufficient to properly create a regression analysis or predict the current site's' flooding condition.	Noted	Comment addressed, no further comments.
4.	It appears the Fluvial Geomorphology and Hydraulic draft by Matrix provided an update of the existing HEC RAS model but did not simulate the proposed conditions (upgrade of culverts 1 to 8). Please clarify or provide a digital copy of the HEC RAS model including updated/existing and proposed conditions in separate files.	The purpose of the fluvial geomorphic and hydraulic assessment was to provide a baseline understanding and inventory of the existing channel condition and culvert facilities within the study area, in the context of the planned active transportation alternatives and improvements. Given the limited interaction between the proposed active transportation facilities and the existing channel/culvert features the hydraulic assessment of any proposed culvert modifications can be undertaken during the detailed design phase of the project.	The Stormwater Management (SWM) report (Page 5) completed by RVA states that thirty culverts may require improvements. However, information on the level of improvement, proposed sizes and mitigation measures have not been provided but for the culvert at Highway #50 and George Bolton Boulevard intersection. Please provide further details about the culverts that will require improvements as well as the hydraulic calculations that support them. Preliminary design/calculations would be acceptable at this stage. The consultant may refer to the TRCA Crossing Guideline for Valley and Stream Corridors (2015) and Technical Guidelines for Flood Hazard Mapping (2017) for further details and guidance.

5.	Staff defers the review of the proposed upgrade/adjustment to the existing municipal storm sewer network and the validity of the InfoWorks model results.	Comments noted.	Comment addressed, no further comments.
		Planning Ecology	
6.	From the plans and Draft Natural Heritage Assessment it appears as if there are a few impacts to wetland communities that have not been mitigated. As a result, please provide the quantity of wetland habitat that will be permanently removed from these proposed works, and provide adequate compensation. Please refer to TRCA's Compensation Protocol for additional information.	The proposed improvements will result in an impact/loss of approximately 149 m2 of MAS community (Shallow Marsh) and 141 m2 of MAS2-1 (Cattail Mineral Shallow Marsh Type) for a total loss of approximately 290 m2 of wetland community. As part of TRCA's Compensation Protocol, to offset for the loss of natural wetland and woodland habitat in their watershed, they have implemented an offsetting ratio of 1:1 (replacement: loss) for wetlands. However, as this is a municipal infrastructure project, further discussion between the TRCA and the Region will be required to discuss the details of this undertaking.	TRCA staff look forward to discussing wetland compensation with the Region. Comment addressed, no further comments.
7.	Please clearly identify the watercourse and wetlands on all drawings.	Watercourse and wetlands are identified on Figures 3A – 3C of Appendix 3.	Please include the locations and extents of all watercourses and wetlands on the site plans/engineering plans in order for TRCA staff to evaluate the proposed works and ESC's in relation to the natural features.
8.	Please minimize impacts to the natural heritage features to the extent possible.	Agreed. Minimizing impacts to the natural environment were a key criterion in the development in the study recommendations. The Project File Report and Appendix 3 include detailed mitigation measures to minimize impacts to the natural	Comment addressed, no further comments.

		heritage features to the extent possible.	
Erosion and Sediment Control			
9.	An Erosion and Sediment Control (ESC) report and plan will be required at the detailed design stage. The ESC plan shall be in alignment with the TRCA ESC Guide for Urban Construction (December 2019	Agreed. Project File Report includes commitment to prepare a Sediment and Erosion Control Plan in alignment with the TRCA ESC Guide for Urban Construction (December 2019).	Comment addressed, no further comments.
General			
10.	Please ensure TRCA's Standard Notes are on all site plans at the detailed design stage.	Project File Report includes commitment to include TRCA's Standard Notes on all site plans at the detailed design stage.	Comment addressed, no further comments.

Standard Notes
Development and Engineering Services
Required for all Ontario Regulation 166/06 Permit or Voluntary Project Review Applications
Interim September 2020

Toronto and Region Conservation Authority

To be considered complete, standard environmental notes may be required on the contract drawings, particularly where there will be in- or near- water works.

All notes related to erosion and sediment controls should meet the standards set forth in the Erosion and Sediment Control Guide for Urban Construction (December 2019). Details are available on the Sustainable Technologies website at www.sustainabletechnologies.ca.

For simple projects, the notes should be included on each applicable drawing. For more complex projects, the notes should be submitted as one page of the contract drawings and then referenced, by number, on each applicable drawing. The following wording is generally accepted by TRCA. It is recognized that project specific modifications to these notes may be required.

Section 1: Site Management	
#	**Standard Notes**
1	Erosion and Sediment Control (ESC) measures will be implemented prior to, and maintained during the construction phases, to prevent entry of sediment into the water. All damaged erosion and sediment control measures should be repaired and/or replaced within 48 hours of the inspection.
2	Disturbed areas will be minimized to the extent possible, and temporarily or permanently stabilized or restored as the work progresses.
3	All in-water and near-water works will be conducted in the dry with appropriate erosion and sediment controls.
4	The erosion and sediment control strategies outlined on the plans are not static and may need to be upgraded/amended as site conditions change to minimize sediment laden runoff from leaving the work areas. If the prescribed measures on the plans are not effective in preventing the release of a deleterious substance, including sediment, then alternative measures must be implemented immediately to minimize potential ecological impacts. TRCA Enforcement Officer should be immediately contacted. Additional ESC measures to be kept on site and used, as necessary.
5	An Environmental Monitor will attend the site to inspect all new controls immediately after installation. Inspection of ESC measures to be will occur, at minimum: • On a weekly basis; • Prior to significant rainfall events (minimum predicted 25mm over 24 hours); • After every rainfall/snowmelt event; and • Daily during extended rainfall periods. Inspections will focus on measures related to erosion and sediment controls, dewatering or unwatering, restoration and in- or near- water works. Should concerns arise on site the Environmental Monitor will contact the TRCA Enforcement Officer as well as the proponent.
6	All activities, including maintenance procedures, will be controlled to prevent the entry of petroleum products, debris, rubble, concrete or other deleterious substances into the water. Vehicular refueling and maintenance will be conducted a minimum of 30 metres from the water.
7	All grades within the Regulatory Flood Plain will be maintained or matched.

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8	The proponent/contractor shall monitor the weather several days in advance of the onset of the project to ensure that the works will be conducted during favourable weather conditions. Should an unexpected storm arise, the contractor will remove all unfixed items from the Regional Storm Flood Plain that would have the potential to cause a spill or an obstruction to flow, e.g., fuel tanks, porta-potties, machinery, equipment, construction materials, etc.
9	All dewatering/unwatering shall be treated and released to the environment at least 30 metres from a watercourse or wetland and allowed to drain through a well-vegetated area. No dewatering effluent shall be sent directly to any watercourse, wetland or forest, or allowed to drain onto disturbed soils within the work area. These control measures shall be monitored for effectiveness and maintained or revised to meet the objective of preventing the release of sediment laden water.
10	All access to the work site shall be from either side of the watercourse. No equipment or vehicles are permitted to cross through the watercourse unless approved by TRCA.
Section 2: Construction Timing Best Management Practices (the proponent/contractor should confirm directly with applicable provincial and federal agencies)	
11	Prior to site disturbance the contractor/proponent should ensure that the works are in conformance with the *Migratory Birds Convention Act*. Please note that the general breeding bird timing window for this area is April 1st to August 31st, however, breeding activities might initiate prior to and continue past this period.
12	Where impacts to local fish populations may occur during their spawning, nursery and migratory periods, construction timing windows should apply to in-water or near-water activities. The proponent/contractor should confirm applicability and dates with appropriate provincial and federal agencies.
Section 3: Fish and Wildlife Relocation	
13	Fish and wildlife stranded within the work area shall be captured and released live in suitable habitat upstream of the work area under the supervision of qualified aquatic technical staff. The proponent/contractor should confirm requirements directly with Ministry of Natural Resources and Forestry.
Section 4: Environmental Compliance	
14	Please notify TRCA Enforcement Officer (xxx at 416.661-6600, ext. xxxx, email), and TRCA Project Manager (xxx at 416.661.6600, ext. xxxx, email) 48 hours prior to commencing construction.
15	An Environmental Monitor will be on site, and provide advice, to ensure that activities that could have a negative impact to the natural environment are effectively mitigated as construction proceeds. The Environmental Monitor shall notify the TRCA Enforcement Officer and Project Manager if issues arise.

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<darrin.dodds@peelregion.ca>; Burkiewicz, Justyna <justyna.burkiewicz@peelregion.ca>; ZZG-PWI <pwi@peelregion.ca>; Tampacopoulos, Nectar <nectar.tampacopoulos@peelregion.ca>; Cowan, Barry <barry.cowan@peelregion.ca>; Crake, David <dave.crake@peelregion.ca>; Thomsen, Jeanne <jeanne.thomsen@peelregion.ca>; Dawson, Allen <allen.dawson@peelregion.ca>; Gibson, Brian <brian.gibson@peelregion.ca>
Subject: FW: New Brampton Transit Maintenance and Storage Facility EA - Agency Invitation to Open House #2 (Virtual)

Hi All,
Please see attached information on the virtual Open House for the City of Brampton's transit maintenance and storage facility.

Regards,

Asha Saddi, BA(Hons), PMP
Technical Analyst, Infrastructure Programming & Studies
Transportation Division
Public Works, Region of Peel
Tel: 905-791-7800 x7794
Fax: 905-791-1442
Asha.Saddi@peelregion.ca

Region of Peel
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From: Trevor Jenkins <trevor.jenkins@ibigroup.com>
Sent: June 4, 2020 7:57 PM
To: Trevor Jenkins <trevor.jenkins@ibigroup.com>
Cc: Daniel Crosthwaite <daniel.crosthwaite@ibigroup.com>
Subject: New Brampton Transit Maintenance and Storage Facility EA - Agency Invitation to Open House #2 (Virtual)

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Please join us at the second public Open House for the Brampton Transit Bus Maintenance and Storage Facility:

Virtual Open House
Wednesday, June 17, 2020 to Wednesday, July 15, 2020
Available 24 hours a day, 7 days a week

Open House #2 will be done virtually. All Open House materials will be available on the project website.
https://www.brampton.ca//EN/residents/Roads/Pages/road-works-details.aspx/3098/Transit-Maintenance-Facility

The purpose of the project is to increase maintenance and storage capacity for existing and new buses which are required to improve transit service across Brampton. The new bus maintenance and storage facility for use by Brampton Transit is proposed at 10192 Highway 50, Brampton, Ontario (see map attached). The facility will include a storage area, a maintenance garage, administrative offices, and staff parking.

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The study is currently in the “pre-planning phase” of the Ontario Transit Project Assessment Process (TPAP) as prescribed in Ontario Regulation 231/08. The TPAP is an approved environmental assessment process that includes consultation, assessment of potential impacts, identification of measures to mitigate the effects, and the completion of an environmental project report. The formal TPAP is planned to begin in 2020.

If you have any questions or comments about the study, please contact:

Compton Bobb
Senior Project Engineer
Transportation Special Projects
Public Works & Engineering
City of Brampton
Phone: 905 874 2581
Email: Compton.Bobb@brampton.ca

Regards,
Trevor Jenkins
IBI Group

CC: Daniel Crosthwaite, Consultant Project Manager, IBI Group

Region of Peel
working with you

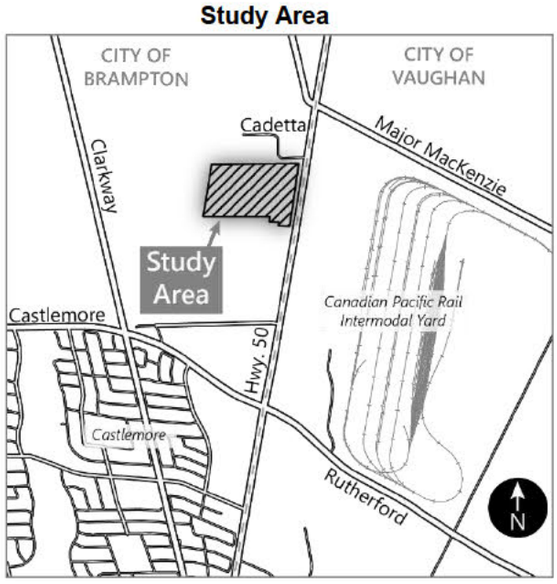
NOTICE OF OPEN HOUSE #2 (VIRTUAL)

New Transit Maintenance and Storage Facility
10192 Highway 50, Brampton, Ontario
Environmental Assessment Study

The Study

The City of Brampton has retained IBI Group to undertake a study and preliminary design of a new bus maintenance and storage facility for use by Brampton Transit at 10192 Highway 50. This will be Brampton Transit's third bus facility. The purpose of the project is to increase maintenance and storage capacity for existing and new buses which are required to improve transit service in Brampton. The facility will include a storage area, maintenance garage, administrative offices and staff parking. A map of the site is included below.

Study Area



The Process

The study is currently in the "pre-planning phase" of the Transit Project Assessment Process (TPAP) as prescribed in Ontario Regulation 231/08. The TPAP is an approved environmental assessment process that includes assessment of potential impacts, identification of mitigation measures, consultation, and the completion of an environmental project report. The TPAP is planned to begin later in 2020. A Notice of Commencement will be issued at that time.

Invitation to Open House #2

We invite you to participate in Open House #2. This event will be held virtually to protect the health and safety of Brampton residents and our staff. Individuals are invited to participate **online** or **by phone**.

New Transit Maintenance and Storage Facility Virtual Public Open House #2

Open from Wednesday, June 17 to Wednesday, July 15, 2020
Available 24 hours a day, 7 days a week

The Open House will provide information on the preliminary preferred site design, emerging findings of supporting technical studies, as well as next steps. In addition to display boards and videos, a survey will be open for four weeks for interested persons to provide feedback.

How to Participate

Participate Online	Participate by Phone
Visit the project website to view the Open House #2 materials any time from June 17 to July 15. An online comment form and survey will be available until midnight on Wednesday, July 15, 2020. The project website is: *brampton.ca/EN/residents/Roads/Pages/road-works-details.aspx/3098/Transit-Maintenance-Facility*	**Don't have access to the internet?** Call (289) 298 1066 and we will mail you a copy of the Open House #2 materials that are available on the project website. You can leave your comments at the same number, or by calling/emailing one of the project managers at the numbers below. *If you leave a voicemail, please include your name and mailing address (including postal code) to ensure the materials can get to you.*

If you have any questions or comments, or would like to be added to the project mailing list, please contact:

Compton Bobb
City's Project Manager
City of Brampton
(905) 874-2581
compton.bobb@brampton.ca

Daniel Crosthwaite
Consultant's Project Manager
IBI Group
(416) 679-1930 ext. 65032
daniel.crosthwaite@ibigroup.com

This Notice First Issued June 4, 2020

Information will be collected in accordance with the Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

From: Lee, Arthur <arthur.lee@peelregion.ca>
Sent: Wednesday, June 24, 2020 1:26 PM
To: Banuri, Syeda
Cc: Nieuwenhuysen, Bob; Garbos, Olek
Subject: FW: **Follow up** PUCC from Vianet VNET-20-1741R1 - HWY 50 (NORTH OF HOPCROFT RD TO SIMONA)

Hi Syeda,

Olek reminded me that you have an EA on Hwy 50 between Mayfield and Healey (?). The following PUCC below will need to be revised soon to include the existing stormwater and sanitary sewers but I think it would important to have your consultants at RVA aware of the proposed work and provide and comments with the EA plans if any.
I will advise Susan to cc you with any revised documents once they arrive.

Regards,

Arthur Lee, P.Eng
Senior Designer
Infrastructure Programming and Studies, Transportation
Region of Peel
10 Peel Centre Dr., Suite B, 4th Floor
Brampton, ON L6T 4B9
905-791-7800, ext. 7872

From: DeJesus, Susan
Sent: June 15, 2020 10:31 AM
To: Nieuwenhuysen, Bob <Bob.Nieuwenhuysen@peelregion.ca>; Garbos, Olek <Olek.Garbos@peelregion.ca>; Lee, Arthur <arthur.lee@peelregion.ca>; Pietkiewicz, Joanna <Joanna.Pietkiewicz@peelregion.ca>; Masley, Mark <Mark.Masley@peelregion.ca>
Subject: PUCC from Vianet VNET-20-1741R1 - HWY 50 (NORTH OF HOPCROFT RD TO SIMONA)

Good day Bob, Olek, Arthur, Joanna and Mark:

Re: PUCC from Vianet VNET-20-1741R1
- HWY 50 (NORTH OF HOPCROFT RD TO SIMONA)

We received the attached PUCC from Vianet.

The CAD Team have reviewed and approved the clearances from the existing infrastructure but have asked for further review for the following:

1. 18-4860- Hwy 50 – EA assessment – Olek Garbos (Arthur Lee)
2. 14-1320- Joanna Pietkiewicz to review
3. Storm and Roads to review
4. Mark Masley to review for all Hydrant lead crossing.

Please review to ensure no conflicts.

Please provide review comments **by June 19th please.**

Thank you,

Susan De Jesus
PUCC Coordinator (Brampton and Caledon)
Engineering Technical Services
Region of Peel
10 Peel Centre Drive, Suite B, 4th Floor
Brampton ON L6T 4B9
Office 905 791-7800 ext. 7898
Toll Free 888 919-7800 ext. 7898
E-Mail Susan.DeJesus@peelregion.ca
General PUCC Mailbox PUCC.Applications@peelregion.ca

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: June 30, 2020 12:09 PM
To: Andrew McGregor; Courtney Row
Subject: Fwd: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Follow Up Flag: Follow up
Flag Status: Flagged

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From: ZZG-SourceWater <zzg-sourcewater@peelregion.ca>
Sent: Tuesday, June 30, 2020 11:11 AM
To: Banuri, Syeda
Cc: ZZG-SourceWater
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Hi Syeda,

This is to confirm receipt of project commencement notification by the Risk Management Office.

The project was reviewed with respect to the requirements under the *Clean Water Act* and in consideration of the Approved Credit Valley-Toronto and Region-Central Lake Ontario (CTC) Source Protection Plan which came into effect on December 31, 2015 and contains policies to protect municipal drinking water sources.

The project study area is situated in the Toronto and Region Source Protection Area within the Credit Valley-Toronto and Region-Central Lake Ontario (CTC) Source Protection Region. The study area is not within source protection vulnerable areas delineated under the *Clean Water Act* and therefore, the policies contained within the CTC Source Protection Plan do not apply to the project.

As you may be aware, proponents undertaking a Municipal Class EA project must identify whether a project is occurring within a source water protection vulnerable area, and if so, document whether any project activities are a prescribed drinking water threat and thus have the potential to adversely affect the quality or quantity of drinking water sources. Therefore, please ensure a section on "Source Water Protection" is part of the project file report or environmental study report as required under the Municipal Class EA process.

Regards,

Erin Ihnat, C.Tech., PMP
Risk Management Inspector
Infrastructure Planning, Growth and Water Resources - Public Works

From: Jamroz, Damian <damian.jamroz@peelregion.ca>
Sent: November 3, 2020 7:12 PM
To: Banuri, Syeda; Hassan, Mohammad
Cc: Detaramani, Tina; Tatla, Manvir; Smith, Neal; Toy, William
Subject: RE: RoP Hwy 50 Drainage Improvements EA - Traffic DataToy, >

Hi Syeda,

Mohammad (CC'd) from Traffic Operations team can assist with the TMC's along the corridor.

Kind Regards,

Damian A. Jamroz
Supervisor, Traffic Operations
Traffic Engineering
Region of Peel
10 Peel Centre Drive Suite B, 4th Floor
Brampton, ON L6T 4B9

Office No.: 905-791-7800 ext. 7856

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: November 3, 2020 4:20 PM
To: Jamroz, Damian <damian.jamroz@peelregion.ca>
Cc: Detaramani, Tina <tina.detaramani@peelregion.ca>; Tatla, Manvir <manvir.tatla@peelregion.ca>; Smith, Neal <neal.smith@peelregion.ca>; Toy, William <william.toy@peelregion.ca>
Subject: RE: RoP Hwy 50 Drainage Improvements EA - Traffic DataToy, >

Hi Damian,
Please, point me to the right contact who can provide the following requested data to RVA for our project:

existing turning movement counts for the intersections along the Highway 50 from Mayfield to Healey Rds, as well as any projected volumes for future horizon year (at same locations).

Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052

cell: 416-407-7860

From: Detaramani, Tina <tina.detaramani@peelregion.ca>
Sent: November 3, 2020 3:26 PM
To: Toy, William <william.toy@peelregion.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>; Tatla, Manvir <manvir.tatla@peelregion.ca>; Smith, Neal <neal.smith@peelregion.ca>
Cc: Jamroz, Damian <damian.jamroz@peelregion.ca>
Subject: RE: RoP Hwy 50 Drainage Improvements EA - Traffic Data

HI William

I would suggest Damian as a starting point, as he will be able to provide the requested data. We would be happy to have any follow up discussions with Syeda and team once the data is provided.

Thanks
TIna

From: Toy, William <william.toy@peelregion.ca>
Sent: November 3, 2020 2:02 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Tatla, Manvir <manvir.tatla@peelregion.ca>; Smith, Neal <neal.smith@peelregion.ca>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Detaramani, Tina <tina.detaramani@peelregion.ca>
Subject: FW: RoP Hwy 50 Drainage Improvements EA - Traffic Data

Hello,

The best contacts would be Manvir and Neal. I've copied them to this email.
Thanks.

Best Regards,

William Toy
Supervisor, Traffic Safety
Traffic Engineering

Region of Peel
10 Peel Centre, Suite B, 4th Floor
Brampton, ON L6T 4B9
905-791-7800 extension 7869

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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: November 3, 2020 1:53 PM
To: Toy, William <william.toy@peelregion.ca>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RoP Hwy 50 Drainage Improvements EA - Traffic Data

Hi,
Hope all is well. I am leading an EA for Highway 50 Drainage Improvements from Mayfield to Healey Road. The EA study was initiated to review opportunities to address drainage improvements along Highway 50 from Mayfield Road to Healey Road, in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

In addressing the Region's requirements, the study is considering:

- Best Industry Practices
- Climate Change Requirements
- Existing and Future Regulatory Requirements
- Active Transportation Improvements (i.e. pedestrian and cycling amenities).

As, part of the study our consultant RVA will need to review existing turning movement counts for the intersections along the corridor (within the study limits), as well as any projected volumes for future horizon year (at same locations).

I will highly appreciate if you can point me to the right person who can provide the requested data.
Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>
Sent: November 2, 2020 12:00 PM
To: Peter Cho <pcho@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Tatla, Manvir <manvir.tatla@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; Deborah Weeden <dweeden@rvanderson.com>
Subject: Re: Hi Peter, for the MUT crossing location, I thought about it some more and below are some add'l thoughts:

The EB left seems quite heavy based on the wheel tracks I can see in the aerial view, so south side crossing might work best, again, with advisement from Traffic group.

Regards,

Bob Nieuwenhuysen, Manager Design and Construction, Transportation
Region of Peel
email: bob.nieuwenhuysen@peelregion.ca
Phone: 905-791-7800, ext. 7814

From: Peter Cho <pcho@rvanderson.com>
Sent: November 2, 2020 11:21 AM
To: Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Tatla, Manvir <manvir.tatla@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; Deborah Weeden <dweeden@rvanderson.com>
Subject: RE: Hi Peter, for the MUT crossing location, I thought about it some more and below are some add'l thoughts:

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

HI Bob, noted and I will pass your recommendation and review with the team. From a high level review, the Healey Road intersection probably will probably be most suited for the crossing as the east side of the intersection is a commercial/industrial property. The rest of the intersections in the project corridor are 4 way intersections, most likely with higher turning movement (except for Parr, but it is too far south of the rail corridor). It might be safer to provide cross ride with this configuration (see attached) at Healey.

Manvir, if the Region have any traffic data for this intersection, please forward it to me or if you can confirm this configuration will work, we can incorporate wording into our documents.

Regards,
Peter Cho
RVA194615

From: Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>
Sent: October 30, 2020 2:43 PM
To: Peter Cho <pcho@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Tatla, Manvir <manvir.tatla@peelregion.ca>; Deborah Weeden <dweeden@rvanderson.com>
Subject: Hi Peter, for the MUT crossing location, I thought about it some more and below are some add'l thoughts:

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

We will need to look at left and right turn movements from the side street at any potential crossing location. If an intersection has a fairly high amount of turning movements in a specific direction, we may have to look at crossing the opposing leg, or possibly pick another intersection for crossing. Traffic should be able to help in identifying a suitable crossing location along this stretch.

Bob Nieuwenhuysen
Manager, Transportation
Public Works
Region of Peel
(905) 791-7800 ext. 7814

bob.nieuwenhuysen@peelregion.ca
10 Peel Centre Drive, 4th floor, Suite B, Brampton, On, L6T-4B9

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To: Andrew McGregor
Subject: RE: Draft Hydrogeological Report

From: Saini, Sakshi <sakshi.saini@peelregion.ca>
Sent: November 5, 2020 10:11 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: Draft Hydrogeological Report

Hi Syeda,

I have reviewed the hydrogeology investigation report and have the following comments (also in the attached):

1. This site has very few ideal spots for infiltration-based LID. Either the subsurface soils are clayey material with infiltration rates of less than 15 mm/h, or the GW table is too close to the ground surface. This has been concluded in the report as well, as you can see in 6.3. Overall, not ideal to put infiltration LIDs at this site.
2. Lab results show that water quality of the groundwater samples fails to meet Peel's criteria- the TSS and Manganese concentrations being exceptionally high. This definitely calls for implementation of filtration-based LID practices. So I think this site may be ideal to fall into the second tier as far as "control of the 90th-percentile rain event", i.e. filtration of the 90th-percentile rain event and smaller.
3. Since the GW table is high at some locations, we should also check that there are no existing I&I issues at this site.

I hope the comments are clear. Let me know if you want to set up a call to discuss or have any questions. Thanks for the opportunity to review.

Sakshi Saini, P. Eng.
Stormwater Specialist, Infrastructure Programming and Studies
Transportation, Public Works
Region of Peel
10 Peel Centre Dr., Suite B, 4th Floor
Brampton, ON L6T 4B9
tel: 905-791-7800, ext. 5747

Region of Peel
working with you

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: Tuesday, November 3, 2020 9:28 AM
To: Banuri, Syeda
Subject: Draft Hydrogeological Report

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hi Syeda,

Region of Peel
working with you

I've attached the draft Hydrogeological Report for your review and distribution as required. Based on preliminary input received from the design team, the range of infiltration seems good to support LID measures along the corridor.

Kind regards

RVA IS GROWING!
Our NEW Halton and Halifax offices are now open.

Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals

P: (905) 685-5049 ext. 4211
C: (905) 964-4056

R.V. Anderson Associates Limited
43 Church Street, Suite 104, St. Catharines, ON L2R 7E1

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To: Banuri, Syeda
Subject: FW: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

Hi,

Quick questions before I dig in –

1. was pervious pavement considered for the MUP and/or sidewalks and if not, why not?
2. The 'Proposed LID Strategy' seems like a summary, not an EA SW Report – what is the purpose of this document?
3. Will any streetscaping like street trees be included in the project? If so, will they include soaker pits or other LID features to 'reuse' rain water? Also if so, is you Consultant reviewing to ensure/include rest areas as per our Rest Area Policy?

Thanks,

From: Courtney Row <CRow@rvanderson.com>
Sent: November 17, 2020 4:45 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Dear Sir/Madam,

Thank you for participating in the 2nd Technical Advisory Committee Meeting for the Regional Road 50 Drainage Improvements Environmental Assessment held on October 30th, 2020.

Please find attached for your review and comment 1. the draft meeting notes, 2. preliminary plans showing the proposed multi -use path and storm water management recommendations and 3. summary of the low impact development strategy.

If you have any difficulty with any of the attachments, kindly reply to this email and I will assist you.

To make edits or to request clarification on any information provided please reach out to Syeda Banuri (Region of Peel) or_ Andrew McGregor (R.V. Anderson Associates Limited) directly by November 27th, 2020.

Thank you very much for your time and consideration.

Regards,

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November 19, 2020

Arthur Lee
Technical Analyst
Peel Region
arthur.lee@peelregion.ca

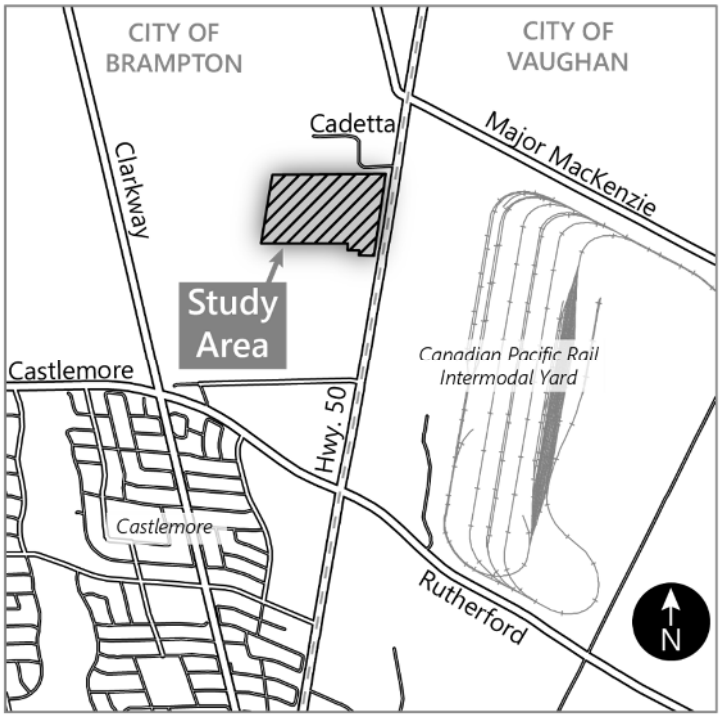
Dear Arthur Lee,

BRAMPTON TRANSIT BUS MAINTENANCE AND STORAGE FACILITY:
Notice of Commencement of Transit Project Assessment Process

The Study

The City of Brampton has identified the need for an additional bus maintenance and storage facility to support the expanding bus fleet required to enhance transit service. The proposed facility is located at the southwest corner Highway 50 and Cadetta Road in north-east Brampton (see attached notice for additional details). The facility will ultimately have indoor storage for 350 buses, a maintenance garage, administrative offices and staff parking.

Exhibit 1: Map of the Study Area



The Process

The project is being conducted through the Transit Project Assessment Process (TPAP), in accordance with Ontario Regulation 231/08.

This notice marks the start of the up-to 120 calendar-day TPAP consultation period. At the end of the consultation period, a 30 calendar-day public review period will commence and interested persons will be able to review the Environmental Project Report and submit written objections to the Minister of the Environment, Conservation and Parks on matters of provincial importance or constitutionally protected Indigenous or treaty rights.

A Public Open House will be held in early-2020. A notice for the Open House will follow. All information produced as part of this project, including the previous public open house materials, is available on the project website: brampton.ca/EN/residents/Roads/Pages/road-works-details.aspx/3098/Transit-Maintenance-Facility.

If you have any questions or comments about the please contact the staff below. I appreciate your time and consideration in participating in this study.

Sincerely,



Compton Bobb, LEL, MCSCE, ENV SP
Senior Project Engineer
Transportation Special Projects
Public Works & Engineering
City of Brampton

Phone: (905) 874-2581
compton.bobb@brampton.ca

cc: Daniel Crosthwaite, IBI Group, daniel.crosthwaite@ibigroup.com
Marianne Alden, IBI Group, marianne.alden@ibigroup.com

Information will be collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record

From: Saddi, Asha <asha.saddi@peelregion.ca>
Sent: Thursday, November 19, 2020 3:02 PM
To: Nieuwenhuysen, Bob; Lovisotto, Sandy; Crawford, Mark; Perez, Julian; Gardiner, Len; Paquette, Samantha; Banuri, Syeda; Detaramani, Tina; Tatla, Manvir; Carrick, Sean; Jamroz, Damian; Hamdani, Hashim; Toy, William; Thomsen, Lori-Ann; Kovach, Steven; Smith, Adrian; Castro, Mark; Saiyed, Sabbir; Kuczynski, Roman; Fox, Mark; ZZG-PWI; ZZG-Peel Health & Built Environment; Gibson, Brian; Clark, Carol; Farouque, Althaf; Marzo, Christina; Svirplys-Howe, Larissa; Memon, Waliullah; Bennington, Michael; Aubin, Louise; Barnes, Brett; Kassay, Marwan; Lee, Anna (Public Works)
Cc: Lee, Arthur
Subject: FW: Brampton Transit Bus Maintenance and Storage Facility – Notice of TPAP Commencement

Hi All,
Attached is the Notice of TPAP from the City of Brampton regarding the Transit bus storage facility on Hwy 50.

An Open House is planned for early-2021, when a Notice will be issued, and, in the meantime the project information can be viewed on the City's project website. The link to project website can be found in the attached Notice.

Regards,

Asha Saddi, BA(Hons), PMP
Technical Analyst, Infrastructure Programming & Studies
Transportation Division
Public Works, Region of Peel
Tel: 905-791-7800 x7794
Asha.Saddi@peelregion.ca

Region of Peel
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From: Marianne Alden <marianne.alden@ibigroup.com>
Sent: November 19, 2020 12:07 PM
To: Lee, Arthur <arthur.lee@peelregion.ca>
Cc: Bobb, Compton <compton.bobb@brampton.ca>; Daniel Crosthwaite <daniel.crosthwaite@ibigroup.com>
Subject: Brampton Transit Bus Maintenance and Storage Facility – Notice of TPAP Commencement

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Good Afternoon,

Please find the Notice of Commencement for the Brampton Transit Bus Maintenance and Storage Facility attached. The study is entering the "Consultation Phase" of the Ontario Transit Project Assessment Process (TPAP) as prescribed in Ontario Regulation 231/08.

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The City of Brampton is undertaking the planning and preliminary design of a new bus maintenance and storage facility for use by Brampton Transit located at the southwest corner of Highway 50 and Cadetta Road (see map in the attachment). The project aims to increase maintenance and storage capacity for existing and new buses, which are required to improve transit service in Brampton. The facility will include a bus storage area, bus maintenance garage, administrative offices and staff parking.

A Public Open House will be held in early-2021. A notice for the Open House will follow. Project materials are available on the project website:
https://www.brampton.ca//EN/residents/Roads/Pages/road-works-details.aspx/3098/Transit-Maintenance-Facility
If you have any questions or comments about the study, please contact:

Compton Bobb
Senior Project Engineer
Transportation Special Projects
Public Works & Engineering
City of Brampton
Phone: 905 874 2581
Email: Compton.bobb@brampton.ca

Daniel Crosthwaite
Consultant Project Manager
IBI Group
100 – 175 Galaxy Boulevard
Toronto, ON. M9W 0C9
Telephone: 416 679 1930 ext. 65032
Email: Daniel.crosthwaite@ibigroup.com

Marianne Alden MCIP, RPP

Senior Environmental Planner

A Message from IBI Group's CEO on COVID-19: https://www.ibigroup.com/covid19-response

IBI GROUP
7th Floor - 55 St. Clair Avenue West
Toronto ON M4V 2Y7 Canada
tel +1 416 596 1930 ext 61403

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From: Saini, Sakshi <sakshi.saini@peelregion.ca>
Sent: December 1, 2020 5:15 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: Capital Project (#18-4860) - Highway 50

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi Syeda,

I had a chance to glance through the FSR SWM section for this project. The proposed site drainage is directed towards the watercourse located on the west end of the property. There is quantity (stormtech chambers) and quality control measures (OGS) being proposed on the west side of the property. They are overcontrolling to the 5 Y pre-development levels. **There is mention that overflow will be directed towards the ditch on Hwy 50 but not clear what the quantity of that overflow is**; this is not specified in the report. So if we can know what amount of overflow will be directed onto Hwy 50 that might help us.

Thanks,

Sakshi Saini, P. Eng.
Stormwater Specialist, Infrastructure Programming and Studies
Transportation, Public Works
Region of Peel
10 Peel Centre Dr., Suite B, 4th Floor
Brampton, ON L6T 4B9
tel: 905-791-7800, ext. 5747

Region of Peel
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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: November 25, 2020 2:55 PM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Subject: FW: Capital Project (#18-4860) - Highway 50

Hi Andrew,
Please, see the email below. I am attaching their SWM report. They have also completed a lot of other studies. Let me know what other study or information would you need to identify and mitigate etc. any impacts to our project and vice versa.
Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works

Region of Peel
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10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Mohammadi, Rojan <rojan.mohammadi@peelregion.ca>
Sent: November 25, 2020 10:35 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Frandsen, Iwona <iwona.frandsen@peelregion.ca>; D'Souza, Derek <derek.dsouza@peelregion.ca>; Shan, Rosalie <rosalie.shan@peelregion.ca>; Winterfield, Christopher <christopher.winterfield@peelregion.ca>
Subject: Capital Project (#18-4860) - Highway 50

Hi Syeda,
I hope this email finds you well.

I have a site plan application on 12500 Highway 50 (Caledon) where the applicant is proposing to demolish an existing motor vehicle sales establishment and construct a new larger one with upgraded parking, grading and landscaping. I have been notified from Real Estate that there is an active capital project (#18-4860) for drainage improvements as well as a multi-use path along highway 50 from Mayfield Road to Healy Road. It seems that the development application/property is within the limits of this capital project.

Would you please review the materials (link provided below) for the proposed submission and confirm if the proposal would interfere with your design? Please provide your comments if any by **December 2, 2020**.

Please be advised that grading, servicing and FSR have been submitted and has been assigned for review. The drawings have been assigned to Christopher Winterfield.

https://eim.peelregion.ca/llprd/llisapi.dll?func=ll&objId=94794036&objAction=browse&viewType=1

Please let me know if you cant access the materials. If you think a meeting would be beneficial, I can arrange one.

Regards,

Rojan Mohammadi, MA, MCIP, RPP
Intermediate Planner | Development Services
905-791-7800 x8164

10 Peel Centre Drive (6th Floor – Suite A)
Brampton, Ontario
L6T 4B9

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To: Oliver Olberg
Subject: RE: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

From: Saini, Sakshi <sakshi.saini@peelregion.ca>
Sent: December 9, 2020 10:59 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

Hi Syeda,

I have reviewed the SWM brief for the Hwy 50 project. My only comment is: For the section of the ditch on the east side of the road, from where Rainbow Creek starts to flows through the ditch to where it discharges back into its own bounds, can this section be made into an enhanced swale with check dams for velocity control and water quality improvements as external drainage and the Creek will be conveyed together through this section. 4 of the culverts that need relining or replacement fall within this section.

Can you discuss this option with the designers.

Sakshi Saini, P. Eng.
Stormwater Specialist, Infrastructure Programming and Studies
Transportation, Public Works
Region of Peel
10 Peel Centre Dr., Suite B, 4th Floor
Brampton, ON L6T 4B9
tel: 905-791-7800, ext. 5747

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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: December 3, 2020 6:04 PM
To: Saini, Sakshi <sakshi.saini@peelregion.ca>
Subject: FW: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

Hi,
Another one. It will complete the Highway 50 SWM review. Please, provide comments in two weeks if possible. Let me know if you have other priorities and need more time,
Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052

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cell: 416-407-7860

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: December 3, 2020 10:16 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

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HI Syeda,

Here's the draft SWM Memo to be sent to Emma at TRCA, along with the Hydrogeological Report. We still don't have flow volumes but it does provide a solid overview of our strategy. The Natural Environmental report will also be provided to TRCA as soon as its complete. Kindly advise if you have any comments before we send to TRCA.

Regards,

rva

RVA IS GROWING!
Our NEW Halton and Halifax offices are now open.

Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals

P: (905) 685-5049 ext. 4211
C: (905) 964-4056

R.V. Anderson Associates Limited
43 Church Street, Suite 104, St. Catharines, ON L2R 7E1

rvanderson.com

From: Caroline Mugo <Caroline.Mugo@trca.ca>
Sent: November 30, 2020 4:17 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; Emma Benko <emma.benko@trca.ca>
Subject: RE: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi Courtney,
TRCA staff has reviewed the meeting minutes and has made 2 edits. There is a correction as the new TRCA contact will now be Emma Benko (also cc'd on this email). It is our understanding that you will provide us with further details on the rationale behind the removal of some of the existing swales. Although the existing swales may not add water quality control for the road, they may provide ecological benefits. As per the minutes please circulate this information for our review.

Kind regards,

Region of Peel
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Caroline Mugo, Ph.D
Planner, Infrastructure Planning and Permits
Development and Engineering Services Division

T: (416) 661-6600 ext. 5689
E: caroline.mugo@trca.ca
A: 101 Exchange Avenue, Vaughan, ON, L4K 5R6 | trca.ca

Toronto and Region Conservation Authority

From: Courtney Row <CRow@rvanderson.com>
Sent: Tuesday, November 17, 2020 4:45 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

Dear Sir/Madam,

Thank you for participating in the 2nd Technical Advisory Committee Meeting for the Regional Road 50 Drainage Improvements Environmental Assessment held on October 30th, 2020.

Please find attached for your review and comment 1. the draft meeting notes, 2. preliminary plans showing the proposed multi -use path and storm water management recommendations and 3. summary of the low impact development strategy.

If you have any difficulty with any of the attachments, kindly reply to this email and I will assist you.

To make edits or to request clarification on any information provided please reach out to Syeda Banuri (Region of Peel) or Andrew McGregor (R.V. Anderson Associates Limited) directly by November 27th, 2020.

Thank you very much for your time and consideration.

Regards,

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Here is a link to Ontario's topographic map web page, where you will be able to review NDMNRF's administrative district boundaries, and identify the appropriate district to support your request:

https://www.ontario.ca/page/topographic-maps

I hope that you find this information helpful,

Sincerely,

Allison Bannister (she/her/hers)

A/Management Biologist
Ministry of Northern Development, Mines, Natural Resources and Forestry
North Bay District
Cell: 705-493-0619

Please Note: As part of providing accessible customer service, please let me know if you have any accommodation needs or require communication supports or alternate formats.

For General Inquiries: Call 705-475-5501 or email: mnrf.northbay@ontario.ca



From: Courtney Row <CRow@rvanderson.com>
Sent: March 10, 2022 6:29 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Warm Greetings,

Please find attached the Notice of Public Information Centre (PIC) 2 for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

The study will consider best management practices, to satisfy climate change requirements and comply with existing and future regulatory requirements.

In developing recommendations, all reasonable alternatives are being considered to minimize impacts on adjacent businesses and the surrounding environment.

The intent of this email is to notify you of study progression, updates to the project and to ensure that anyone with an interest in this study has the opportunity to be involved and provide input.

From: Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>
Sent: January 5, 2021 8:17 AM
To: sally.rook@peelregion.ca; Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Paquette, Samantha <samantha.paquette@peelregion.ca>; mark.crawford@peelregion.ca; Saini, Sakshi <sakshi.saini@peelregion.ca>; manvir.tatla@peelregion.ca; olek.garbos@peelregion.ca
Subject: Re: storm-tree - using stormwater for road side trees

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Let's add it as a tool, but, remember that salt and salt spray, and that trees planted so close to the roadway do not typically fare well and could be in the clear zone, so this solution may only be contextually appropriate.

Regards,

Bob Nieuwenhuysen, Manager Design and Construction, Transportation
Region of Peel
email: bob.nieuwenhuysen@peelregion.ca
Phone: 905-791-7800, ext. 7814

From: Rook, Sally <sally.rook@peelregion.ca>
Sent: January 5, 2021 8:07 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Paquette, Samantha <samantha.paquette@peelregion.ca>; Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>; Crawford, Mark <mark.crawford@peelregion.ca>; Saini, Sakshi <sakshi.saini@peelregion.ca>; Tatla, Manvir <manvir.tatla@peelregion.ca>; Garbos, Olek <olek.garbos@peelregion.ca>
Subject: Re: storm-tree - using stormwater for road side trees

Hi Syeda,

This looking interesting..... we should absolutely be incorporating our Streetscaping with our Stormwater along Hwy 50 and elsewhere. If not this exact system, then something like it. I think TRCA has a lot of info about alternative products and options that may be useful. I think they've even tried and monitored the success of some.
I also really like the idea of the rest areas incorporating Stormwater solutions. That I hadn't heard of before but since this section of Hwy 50 will need rest areas (as per our approved Rest Areas Policy) we should consider those as additional opportunities for SW storage. I don't recall the spacing for the rest areas but it is based on the RCS categorization of this section of roadway.

Thanks,
Sally

Get Outlook for iOS

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Sunday, January 3, 2021 7:04:35 PM
To: Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Paquette, Samantha <samantha.paquette@peelregion.ca>; Rook, Sally <sally.rook@peelregion.ca>; Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>; Crawford, Mark <mark.crawford@peelregion.ca>; Saini, Sakshi <sakshi.saini@peelregion.ca>; Tatla, Manvir <manvir.tatla@peelregion.ca>; Garbos, Olek <olek.garbos@peelregion.ca>
Subject: storm-tree - using stormwater for road side trees

Hi All,
Happy New Year!
I came across the following product for using stormwater for road side trees. I would appreciate your thoughts on the possibility of considering something similar along Hwy 50 MUT.
Regards,

www.storm-tree.com

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

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tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Bennington, Michael <michael.bennington@peelregion.ca>
Sent: January 29, 2021 2:57 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: Regional Road 50 Drainage Improvements EA - TAC 2

Hi Syeda,

Thank you for this opportunity to provide comments. I've reviewed the rest stop locations as you directed and have a brief comment for consideration:

Spacing:
Peel Public Health is supportive of the increased rest area frequency proposed in this EA. The roughly 600m distance between rest areas bring the spacing very close to the spacing recommended for an Urban Main Street road character (~500m spacing), which Hwy 50 becomes just further north. This improves the continuity of the pedestrian experience and improves accessibility for pedestrians of all ages and abilities in this section of Hwy 50.

Regarding the location of the Rest Area at Parr:
Move rest Area farther south (by roughly 3-4m) on Hwy 50 to increase distance from Parr Blvd and bring into proximity of trees that can provide shade and protection from the elements. This would bring the rest area location into better alignment with consideration f. for the design of rest areas in section 2.4 of the ROP Rest Area Guidelines for Exterior Paths of Travel. It appears achievable from the visual provided.

Please let me know if you have any questions about this comment.

Hope you've had a nice week.

Best,

Michael

Michael Bennington, MPH
Supervisor
Built Environment Team, Chronic Disease and Injury Prevention
Region of Peel
7120 Hurontario St., Mississauga
(905) 791-7800 ext. 2014

Region of Peel
working with you

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: January 27, 2021 10:34 AM
To: Rook, Sally <sally.rook@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; Tatla, Manvir <manvir.tatla@peelregion.ca>; Garbos, Olek <olek.garbos@peelregion.ca>; Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>; Yack, Judy <judy.yack@peelregion.ca>; Bennington, Michael

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<michael.bennington@peelregion.ca>; ZZG-PWI <pwi@peelregion.ca>; Thomsen, Jeanne <jeanne.thomsen@peelregion.ca>; Knuckle, Mark <mark.knuckle@peelregion.ca>; Salehzadeh, Farshad <farshad.salehzadeh@peelregion.ca>; Crawford, Mark <mark.crawford@peelregion.ca>; Gardiner, Len <len.gardiner@peelregion.ca>; Reinders, Jamie <jamie.reinders@peelregion.ca>; ZZG-Peel Health & Built Environment <zzg-peelhealthbuiltenvironment@peelregion.ca>; Despins, Christopher <christopher.despins@peelregion.ca>; Arash.Olia@caledon.ca; Ryan Grodecki <Ryan.Grodecki@caledon.ca>; Kant.chawla <Kant.chawla@caledon.ca>; Caroline Mugo <Caroline.Mugo@trca.ca>; Jairo Morelli <Jairo.Morelli@trca.ca>; Hassan, Mohammad <mohammad.hassan@peelregion.ca>; Margi Sheth <Margi.Sheth@caledon.ca>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>; Courtney Row <CRow@rvanderson.com>
Subject: RE: Regional Road 50 Drainage Improvements EA - TAC 2

Hi All,
Just a friendly reminder to those who intend to provide comments but have not yet provided their comments. Please, let us know if you have any comments or concerns to be considered by Jan 29th.
Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Banuri, Syeda
Sent: January 7, 2021 3:09 PM
To: Rook, Sally <Sally.Rook@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; Tatla, Manvir <Manvir.Tatla@peelregion.ca>; Garbos, Olek <Olek.Garbos@peelregion.ca>; Nieuwenhuysen, Bob <Bob.Nieuwenhuysen@peelregion.ca>; Yack, Judy <Judy.Yack@peelregion.ca>; Bennington, Michael <Michael.Bennington@peelregion.ca>; ZZG-PWI <pwi@peelregion.ca>; Thomsen, Jeanne <Jeanne.Thomsen@peelregion.ca>; Knuckle, Mark <Mark.Knuckle@peelregion.ca>; Salehzadeh, Farshad <farshad.salehzadeh@peelregion.ca>; Crawford, Mark <Mark.Crawford@peelregion.ca>; Gardiner, Len <Len.Gardiner@peelregion.ca>; Reinders, Jamie <jamie.reinders@peelregion.ca>; ZZG-Peel Health & Built Environment <ZZG-PeelHealthBuiltEnvironment@peelregion.ca>; Despins, Christopher <Christopher.Despins@peelregion.ca>; Arash.Olia@caledon.ca; Ryan Grodecki <Ryan.Grodecki@caledon.ca>; Kant Chawla <Kant.Chawla@caledon.ca>; Caroline Mugo <Caroline.Mugo@trca.ca>; Jairo Morelli <Jairo.Morelli@trca.ca>; Hassan, Mohammad <Mohammad.Hassan@peelregion.ca>; Margi Sheth <Margi.Sheth@caledon.ca>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Peter Cho <pcho@rvanderson.com>
Subject: Regional Road 50 Drainage Improvements EA - TAC 2

Dear TAC members,
Happy New Year!
We had our TAC meeting towards the end of last year to discuss the preliminary recommendations and alternatives considered for **Highway 50 Drainage Improvements EA**. We received your initial thoughts at the meeting. The project team has now completed background information studies and prepared a few *draft* reports, *draft* PIC 2 material and *draft* Plans. It is provided for review and feedback. I would like to request to provide your comments for

- Public Info Package 2 and SWM MUP Design by **January 20th , 2021** after which we will be finalizing the draft materials to be presented to public
- The rest of the information by **Jan 29th, 2021**

Region of Peel
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You have previously received an email which provides you access to the draft information (follow the instructions in the email below). Please, let me and/or Courtney know if you are not able to access or have not received the email.

Please, note that a few of you have reviewed and provided comments for some of the information. This is another opportunity for all to review it. Please, feel free to review all of the information but I would request the following staff to review the particular documents identified as their input is crucial. I will appreciate if you can also confirm in case you do not have any comments.

- Public Info Package 2 and SWM MUP Design – All
- Geotech, HydroG, Fluvial and Hydraulic Assessment – Bob, Olek, ZZG-PWI and TRCA
- ESA I and Archaeological, Cultural Assessment – Olek, Town of Caledon
- Natural Heritage – TRCA, Town of Caledon
- Proposed LID Strategy – TRCA
- Rest Areas – Michael Bennington, Sally Rook, Town of Caledon
- MUT Connection – Hassan, Bob, Manvir, Town of Caledon

If you have any comments or questions, please let me know.
Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Courtney Row <CRow@rvanderson.com>
Sent: January 7, 2021 8:29 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: 2nd Technical Advisory Committee Meeting - Regional Road 50 Drainage Improvements EA

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

An email was sent out to TAC members to the group on **December 24, 2020**.
Please request authorization to join through the link below.

"You were invited to join the Office 365 group "194615 Region of Peel - Highway 50 Drainage Improvements EA". This is a private group. Submit a request to the group owner to join the group by clicking the link below:

Alternatively, an email was sent out on December 24, 2020, that also has a link to the group. The subject of the email reads: "Courtney Row added you to the 194615 Region of Peel – Highway 50 Drainage Improvements EA group."

In this email please click on the link called: "Go to Sharepoint."

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: January 7, 2021 5:01 PM
To: Despins, Christopher <christopher.despins@peelregion.ca>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Courtney Row <CRow@rvanderson.com>
Subject: RE: Regional Road 50 Drainage Improvements EA - TAC 2

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi Chris,
Thanks for your quick turn-around. I am sharing your comments with my team to consider and will keep you involved in future.
Regards,

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Despins, Christopher <christopher.despins@peelregion.ca>
Sent: January 7, 2021 4:35 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: Regional Road 50 Drainage Improvements EA - TAC 2

Hi Syeda,

Thanks for sharing this, and for inviting me to the previous session late last year.

I had a chance to take a quick look at the SWM MUP Plan and the Proposed LID Strategy. Its great to see some LID go in opportunistically like this so I just want to commend you and your team on championing this as part of the project.

My only suggestion would be to consider swapping the Bioswale and the Bioswale Planter Box proposed on the plan with a Stormwater Tree Trench type of LID practice (subject to things like the Region's street tree criteria, sightlines, etc.). The City of Vancouver, where I worked previously, was having quite a bit of success with these practices as they cut down on specialized O&M associated with a landscaped bioretention practices, while also helping to deliver on the City's urban forestry targets.

Regards,

Chris

From: Tatla, Manvir <manvir.tatla@peelregion.ca>
Sent: January 29, 2021 12:06 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: Regional Road 50 Drainage Improvements EA - TAC 2

Hi Syeda,

I've taken a look at the Public Info Package 2, as well as the SWM MUP Design Plan, and offer the following comments:

Public Info Package 2

- define cycle track and multi-use path (MUP), including unidirectional vs. bidirectional cycle track
- use term multi-use path, not multi-use trail, throughout
- labels on cross section small and hard to read, suggest enlarging
- Slide 21, last bullet mentions multi-use trail, though slide is for cycle track on east side
- in cross section, sidewalk should be 1.8m, per regional standard

SWM MUP Design Plan

- confirm rationale for channelization of right-turn movement at Highway 50/Mayfield intersection
- suggest extending limit to provide multi-use path (MUP) connectivity to the Peel commuter lot
- provide a cross section to demonstrate, among other details, lateral clearance from roadway
- replace term multi-use trail with multi-use path throughout (trail suggests facility outside of the road right-of-way)
- apply appropriate turning templates throughout to identify opportunities to reduce corner curb radii at intersections and accesses
- suggest using this EA as an opportunity to improve all legs of all intersections (ex. crosswalks, corner curb radii, tactile plates, etc.)
- some sidewalk gaps on the east side, as identified in the Sustainable Transportation Strategy (STS)

I'm unsure what you meant by the highlighted portion below. Sorry for not sending sooner, I've been a bit swamped.

Any questions let me know.

Thanks,
Manvir

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: January 27, 2021 10:34 AM
To: Rook, Sally <sally.rook@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; Tatla, Manvir <manvir.tatla@peelregion.ca>; Garbos, Olek <olek.garbos@peelregion.ca>; Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>; Yack, Judy <judy.yack@peelregion.ca>; Bennington, Michael <michael.bennington@peelregion.ca>; ZZG-PWI <pwi@peelregion.ca>; Thomsen, Jeanne <jeanne.thomsen@peelregion.ca>; Knuckle, Mark <mark.knuckle@peelregion.ca>; Salehzadeh, Farshad <farshad.salehzadeh@peelregion.ca>; Crawford, Mark <mark.crawford@peelregion.ca>; Gardiner, Len <len.gardiner@peelregion.ca>; Reinders, Jamie <jamie.reinders@peelregion.ca>; ZZG-Peel Health & Built Environment <zzg-peelhealthbuiltenvironment@peelregion.ca>; Despins, Christopher <christopher.despins@peelregion.ca>; Arash.Olia@caledon.ca; Ryan Grodecki <Ryan.Grodecki@caledon.ca>; Kant.chawla <Kant.chawla@caledon.ca>; Caroline Mugo <Caroline.Mugo@trca.ca>; Jairo Morelli <Jairo.Morelli@trca.ca>; Hassan, Mohammad

Region of Peel
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Corporate Services

10 Peel Centre Dr.
Brampton, ON
L6T 4B9
tel: 905-791-7800

peelregion.ca

March 24, 2021

Our File: PF-20098.00

[redacted]

Dear [redacted]

Re: Capital Project #18-4860 – Drainage Improvements of Regional Road Highway 50 from Mayfield Road to Healey Road (the "Project")
Registered Owner: Georgetown Flooring Ltd.
[redacted]

The Regional Municipality of Peel (the "Region") is currently undertaking a Class Environmental Assessment (EA) to improve the roadside drainage ditches, entrance culverts, and culvert crossings along Regional Road Highway 50 to address identified drainage deficiencies and meet demands of existing and future growth in the area. As part of this undertaking, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy, to satisfy the requirements for Active Transportation (AT) within the corridor.

Additional project information can be found online here:
https://www.peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp

We want to speak to you regarding this Project and your property located at [redacted]. Please see the following page, which shows property requirements that have been identified at this stage of the Project's preliminary design.

At your earliest convenience, please contact me by email at jamie.reinders@peelregion.ca or cell phone at 416-671-3237.

Sincerely,

Jamie Reinders
Capital Acquisition Agent | Real Estate
The Regional Municipality of Peel
10 Peel Centre Drive, Suite B, 6th Floor
Brampton, ON L6T 4B9
Cell Phone: 416-671-3237
Email: jamie.reinders@peelregion.ca

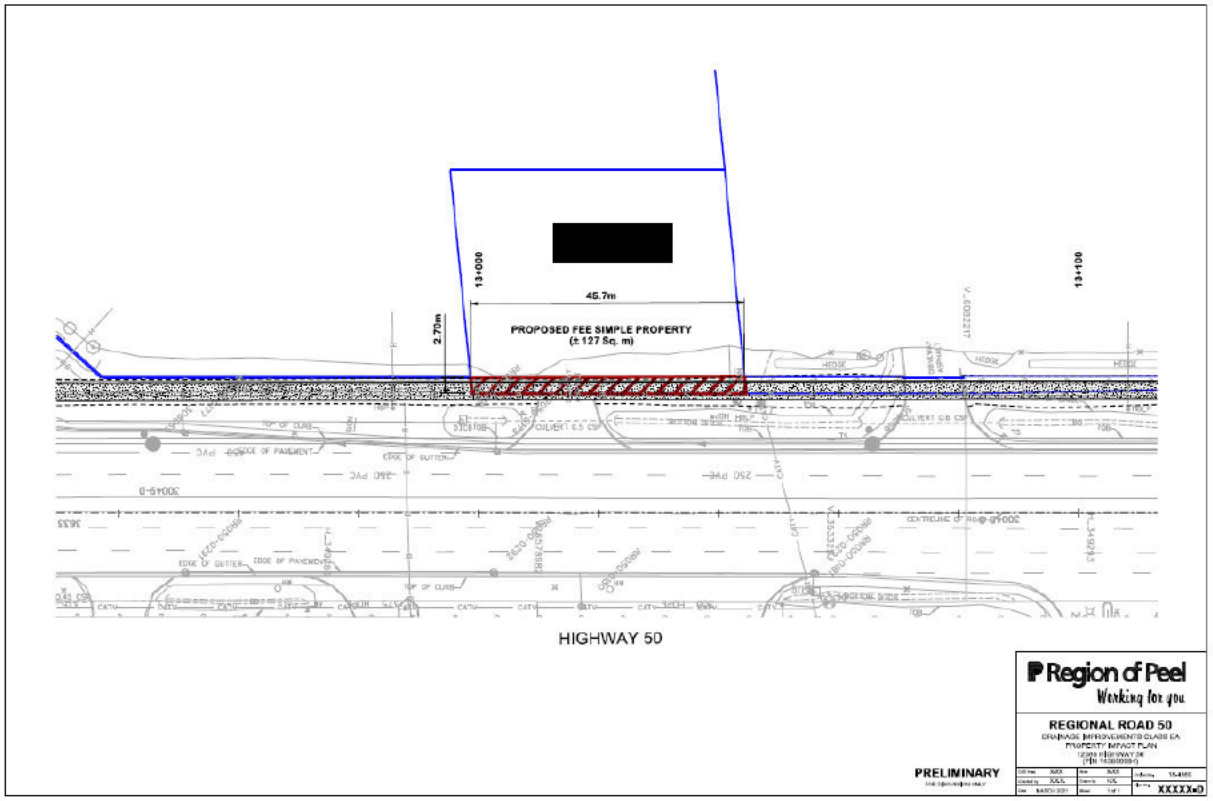
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Preliminary Design Property Requirements:



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10 Peel Centre Dr.
Brampton, ON
L6T 4B9
tel: 905-791-7800

peelregion.ca

March 24, 2021

Our File: PF-20098.00

[redacted]

Dear Property Owner:

Re: Capital Project #18-4860 – Drainage Improvements of Regional Road Highway 50 from Mayfield Road to Healey Road (the "Project")

[redacted]

The Regional Municipality of Peel (the "Region") is currently undertaking a Class Environmental Assessment (EA) to improve the roadside drainage ditches, entrance culverts, and culvert crossings along Regional Road Highway 50 to address identified drainage deficiencies and meet demands of existing and future growth in the area. As part of this undertaking, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy, to satisfy the requirements for Active Transportation (AT) within the corridor.

Additional project information can be found online here:
https://www.peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp

We would like to speak to you regarding this Project and your property located at [redacted] Please see the following page, which shows property requirements that have been identified at this stage of the Project's preliminary design.

At your earliest convenience, please contact me by email at jamie.reinders@peelregion.ca or cell phone at 416-671-3237.

Sincerely,

Jamie Reinders
Capital Acquisition Agent | Real Estate
The Regional Municipality of Peel
10 Peel Centre Drive, Suite B, 6th Floor
Brampton, ON L6T 4B9
Cell Phone: 416-671-3237
Email: jamie.reinders@peelregion.ca

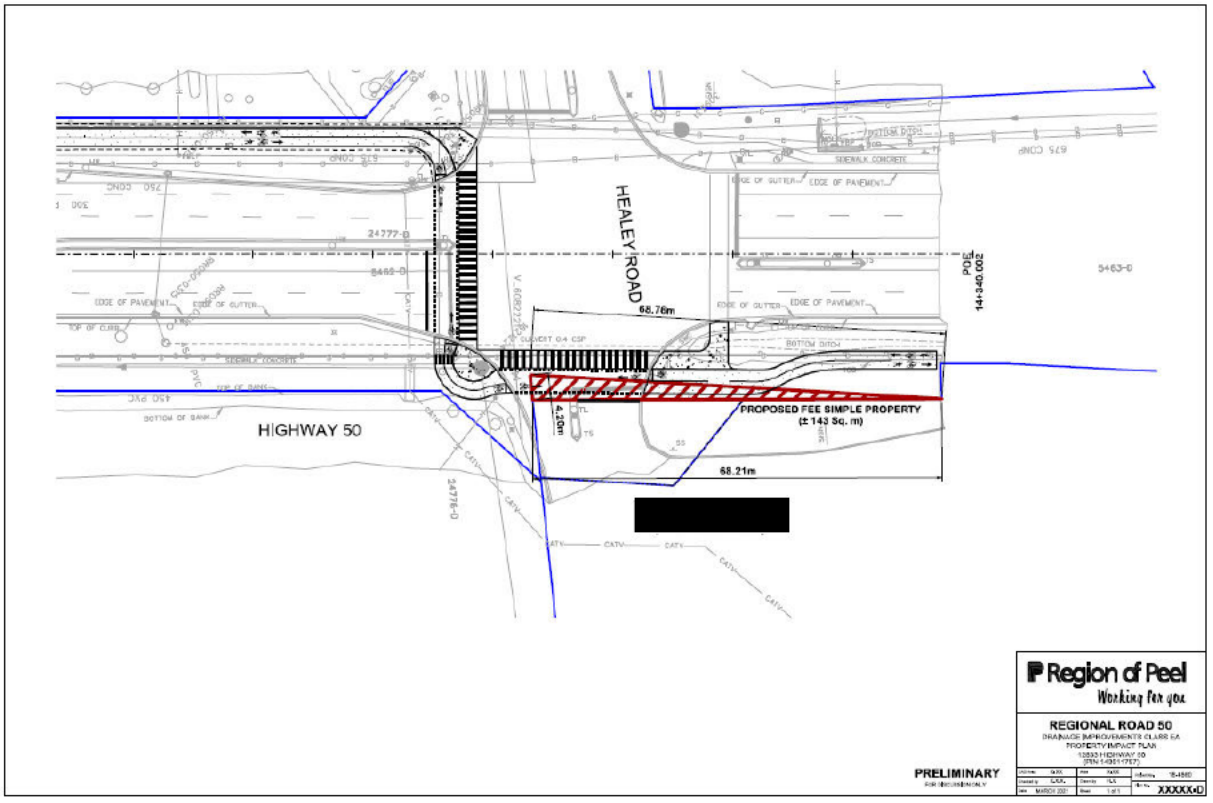
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Brampton, ON
L6T 4B9
tel: 905-791-7800

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Preliminary Design Property Requirements:



From: Quigley, Brandon <brandon.quigley@peelregion.ca>
Sent: March 30, 2021 2:27 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Detaramani, Tina <tina.detaramani@peelregion.ca>
Subject: FW: Accessibility issues

Hi Syeda,

Following up with this again – any details you can provide in regards to new AT infrastructure as part of your EA study along Highway 50 through Bolton would be appreciated, particularly in regards to construction timing.
Any chance you could get back to me this week? Or Councillor Groves directly?

From: Quigley, Brandon
Sent: March 19, 2021 3:52 PM
To: Banuri, Syeda <Syeda.Banuri@peelregion.ca>
Cc: Detaramani, Tina <Tina.Detaramani@peelregion.ca>; Tatla, Manvir <Manvir.Tatla@peelregion.ca>
Subject: FW: Accessibility issues

Hi Syeda,

We received an inquiry through Councillor Groves regarding Highway 50 through Bolton, at a location within your Highway 50 EA study. See below for details. Hoping you can either:

a.) Give me some more details that may be relevant that I can add to my draft below. In particular, I'm wondering what exactly the construction timing will be, and if new pedestrians crossings or signalization is being considered as part of the project.
b.) Alternately, perhaps you may be better positioned to respond to the inquiry yourself, as your EA has the opportunity to address the accessibility issues identified by the resident.

Let me know what you would prefer. Feel free to give me a call via Teams or at 416-871-1886 to discuss if you like.

Brandon Quigley BA, BEd, MES
Sustainable Transportation & Strategic Initiatives
Region of Peel
10 Peel Centre Drive, Suite B, 4th Floor
Brampton, ON L6T 4B9
Cell: 416-871-1886
Office: 905-791-7800 ext. 8389
Pronouns: he, him, his
Walkandrollpeel.ca

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From: Detaramani, Tina <tina.detaramani@peelregion.ca>
Sent: March 19, 2021 12:24 PM
To: Quigley, Brandon <brandon.quigley@peelregion.ca>
Cc: Tatla, Manvir <manvir.tatla@peelregion.ca>; Smith, Neal <neal.smith@peelregion.ca>; Sadat, Pari <pari.sadat@peelregion.ca>
Subject: RE: Accessibility issues

Hi, yes lets run it by Syeda to see if there's an opportunity to address

Thanks!

From: Quigley, Brandon <brandon.quigley@peelregion.ca>
Sent: March 19, 2021 10:32 AM
To: Detaramani, Tina <tina.detaramani@peelregion.ca>
Cc: Tatla, Manvir <manvir.tatla@peelregion.ca>; Smith, Neal <neal.smith@peelregion.ca>; Sadat, Pari <pari.sadat@peelregion.ca>
Subject: RE: Accessibility issues

[redacted]

Pari reminded me during our Pending Inquiries meeting that I let this one slip through the cracks this week – apologies.

In addition to the response below, one idea I have is to ask traffic operations to see if a signalized crossing could be warranted at Simona Drive. I'm not sure how likely it is to be warranted, but it would help residents – especially the one referenced below – access the west side sidewalk from the east. It's a pretty long gap (600 m) between existing crossings on a busy roadway. My main hesitation is perhaps this is being considered as part of the EA.

I wrote a draft response – although I am wondering if we want to pass over this response to Syeda, who is managing the EA in this area. Let me know what you think.

Manvir, I think you've had some involvement in Highway 50 EA, so maybe you have some insight into this as well.

Dear Councillor Groves [redacted]

Thank you for your inquiry regarding accessibility issues and sidewalk gaps along Highway 50 through Bolton.

Firstly, to clarify, by the Bolton Motel, I'm assuming you mean the Bolton Inn, near the intersection of Highway 50 and Simona Drive. If I am incorrect in this assumption, please let me know.

It is true that there is no sidewalk on the west side of Highway 50 between Mayfield Road to approximately Hopcroft Road, including in front of the Bolton Motel. There are sidewalks on the east side currently, but there are some gaps that effect continuity and accessibility in this area.

For these reasons, the Region of Peel's Sustainable Transportation Strategy (STS) has identified this section of Highway 50 as a Pedestrian Improvement Area, eligible for short term improvements, and also has a longer term vision of continuous pedestrian and cycling facilities along the entire length of Highway 50 through Bolton. The Region is also coordinating with the Town of Caledon on implementing the goals of the Town's Queen Street Corridor Study and Bolton Transportation Master Plan.

From: Banuri, Syeda
Sent: April 22, 2021 2:13 PM
To: Andrew McGregor; [redacted] Reinders, Jamie
Subject: RE: Peel Region Preliminary Design Meeting - Capital Project #18-4860 – Drainage Improvements of Regional Road Highway 50 from Mayfield Road to Healey Road

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Thanks [redacted] It was very helpful and the Region is looking forward to work with you.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: April 22, 2021 2:07 PM
[redacted] Reinders, Jamie <jamie.reinders@peelregion.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: Peel Region Preliminary Design Meeting - Capital Project #18-4860 – Drainage Improvements of Regional Road Highway 50 from Mayfield Road to Healey Road

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Thanks [redacted]

It was a pleasure meeting with you today. We appreciate your input and support for the project.

Stay safe,

RVA IS GROWING!
Our NEW Halton and Halifax offices are now open.

Andrew McGregor, MCIP, RPP
Senior Planner, EA & Approvals

P: (905) 685-5049 ext. 4211
C: (905) 964-4056

R.V. Anderson Associates Limited
43 Church Street, Suite 104, St. Catharines, ON L2R 7E1

rvanderson.com

[redacted]

Sent: April 22, 2021 12:27 PM
To: Reinders, Jamie <jamie.reinders@peelregion.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: Peel Region Preliminary Design Meeting - Capital Project #18-4860 – Drainage Improvements of Regional Road Highway 50 from Mayfield Road to Healey Road

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Thank you again for your time everyone. If you need anything more from me please let me know at your convenience.

All the best and please be safe out there.

Cheers

[redacted]

From: Reinders, Jamie <jamie.reinders@peelregion.ca>
Sent: April 22, 2021 11:48 AM
[redacted]
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: Peel Region Preliminary Design Meeting - Capital Project #18-4860 – Drainage Improvements of Regional Road Highway 50 from Mayfield Road to Healey Road

[redacted]

[redacted]

It was good to see you and thanks for the discussion.

Here is the ortho view of the approximate fee simple requirement area:



As well, here is the ortho view of the approximate fee simple requirement area (in red) overlayed with the approximate area of the existing permanent easement (in purple).



Thank you!

Jamie Reinders
Capital Acquisition Agent | Real Estate
The Regional Municipality of Peel
10 Peel Centre Drive, Suite B, 6th Floor
Brampton, ON L6T 4B9
Office Phone: 905-791-7800 ext. 7371
Cell Phone: 416-671-3237

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[redacted]

Sent: April 7, 2021 7:09 AM
To: Reinders, Jamie <jamie.reinders@peelregion.ca>
Subject: RE: Peel Region Preliminary Design Meeting - Capital Project #18-4860 – Drainage Improvements of Regional Road Highway 50 from Mayfield Road to Healey Road

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Good morning Jamie,

Thanks for sending through the letter. Anytime on Thursday the 22nd during the time slot you've indicated should work for me. Please send me a teams invite at your convenience.

Have a great day.

Cheers
[redacted]

[redacted]

From: Reinders, Jamie <jamie.reinders@peelregion.ca>
Sent: April 6, 2021 3:33 PM
[redacted]
Subject: Peel Region Preliminary Design Meeting - Capital Project #18-4860 – Drainage Improvements of Regional Road Highway 50 from Mayfield Road to Healey Road

[redacted]

Thanks for your return phone call. Attached in this email is a letter that was physically mailed on March 24th. It includes a brief description of the project and the preliminary design on the 2nd page. The Region of Peel's external consultant on this project, Andrew McGregor with R.V. Anderson, has provided me the following time slots that work for him:

Monday, April 19th – 12 pm to 5 pm
Wednesday, April 21st – 1 pm to 5 pm
Thursday, April 22nd – 10 am to 3 pm
Friday, April 23rd – 12 pm to 4 pm

Considering Andrew's availability, can you please provide me with a time that works for you? I'll set up a Microsoft Teams meeting with a duration of 1 hour.

Thank you,

Jamie Reinders
Capital Acquisition Agent | Real Estate
The Regional Municipality of Peel
10 Peel Centre Drive, Suite B, 6th Floor
Brampton, ON L6T 4B9
Office Phone: 905-791-7800 ext. 7371
Cell Phone: 416-671-3237



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Currently, there is an Environmental Assessment being conducted by the Region along Highway 50 between Mayfield Road and Healey Road. As part of this project, active transportation improvements are being developed, including exploring the addition of a multi-use path or cycle track. More details on this EA can be found at Regional Road Highway 50 Drainage Improvements from Mayfield Road to Healey Road - Region of Peel (peelregion.ca). The EA is scheduled to move to detailed design and construction phases next year (2022). I am cc'ing the EA's Project Manager, Syeda Banuri, who may be able to provide more details on the progress of the EA and timing of construction.

From: Detaramani, Tina <tina.detaramani@peelregion.ca>
Sent: March 11, 2021 5:15 PM
To: Sadat, Pari <pari.sadat@peelregion.ca>; Quigley, Brandon <brandon.quigley@peelregion.ca>
Cc: Tatla, Manvir <manvir.tatla@peelregion.ca>; Smith, Neal <neal.smith@peelregion.ca>
Subject: FW: Accessibility issues

Hi Brandon
Are you able to look into this one? Could be a maintenance issue or could be something larger. I did a quick google map and looks like there's a sidewalk on the west side when I google Bolton Inn. I cant find the Bolton Motel

Pari, could you please add to the pending items sheet?

From: Annette Groves <Annette.Groves@caledon.ca>
Sent: March 10, 2021 12:34 AM
To: Hardcastle, John <john.hardcastle@peelregion.ca>
Subject: FW: Accessibility issues

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hello John, I am not sure if you are the person I should be sending this to if not can you please send it to the appropriate staff.

Kind regards,

Annette Groves
Regional Councillor, Ward 5 Bolton
Cell: 416-434-3256

Sent: Friday, February 26, 2021 1:33 PM
To: Annette Groves <Annette.Groves@caledon.ca>
Subject: Accessibility issues

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the contents to be safe.

Hello Annette, thank you for the conversation this morning.

As you know I volunteer at [redacted] and have become aware of a gentleman who is unable to get anywhere in town by scooter. He is in [redacted] which require the us of his scooter. There are no sidewalks in that area, just a little asphalt strips beside the curbs that don't have any ramps leading on or off the asphalt strips. Also, at the moment those paved strips are covered in snow.

Is there anything that can be done to make the south end of town more accessible to [redacted] and others in similar situations.

Thank you,

Best Regards

[redacted]

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From: Oliver Olberg
Sent: June 14, 2021 11:19 AM
To: Andrew McGregor; Banuri, Syeda
Cc: Courtney Row
Subject: RE: 194615-RR50-FW: OZ-21-003C - RE: Impact Agenda Meeting - June 9th, 2021

Hi Andrew and Syeda,

One more thing to consider from the below:

The developer is planning to discharge via a second discharge location at Industrial road.
Catchment There appears to be no storm sewer in the road and the existing ditch is quiet shallow and might not have the capacity to carry the flows (please see below screenprints) .
Industrial road currently drains towards RR50 and the ditches seem to merge at the intersection.
A ditch capacity check should probably be done to review that the proposed discharge flows can be conveyed safely to RR50 and if the developer or region needs to make and downstream modifications.

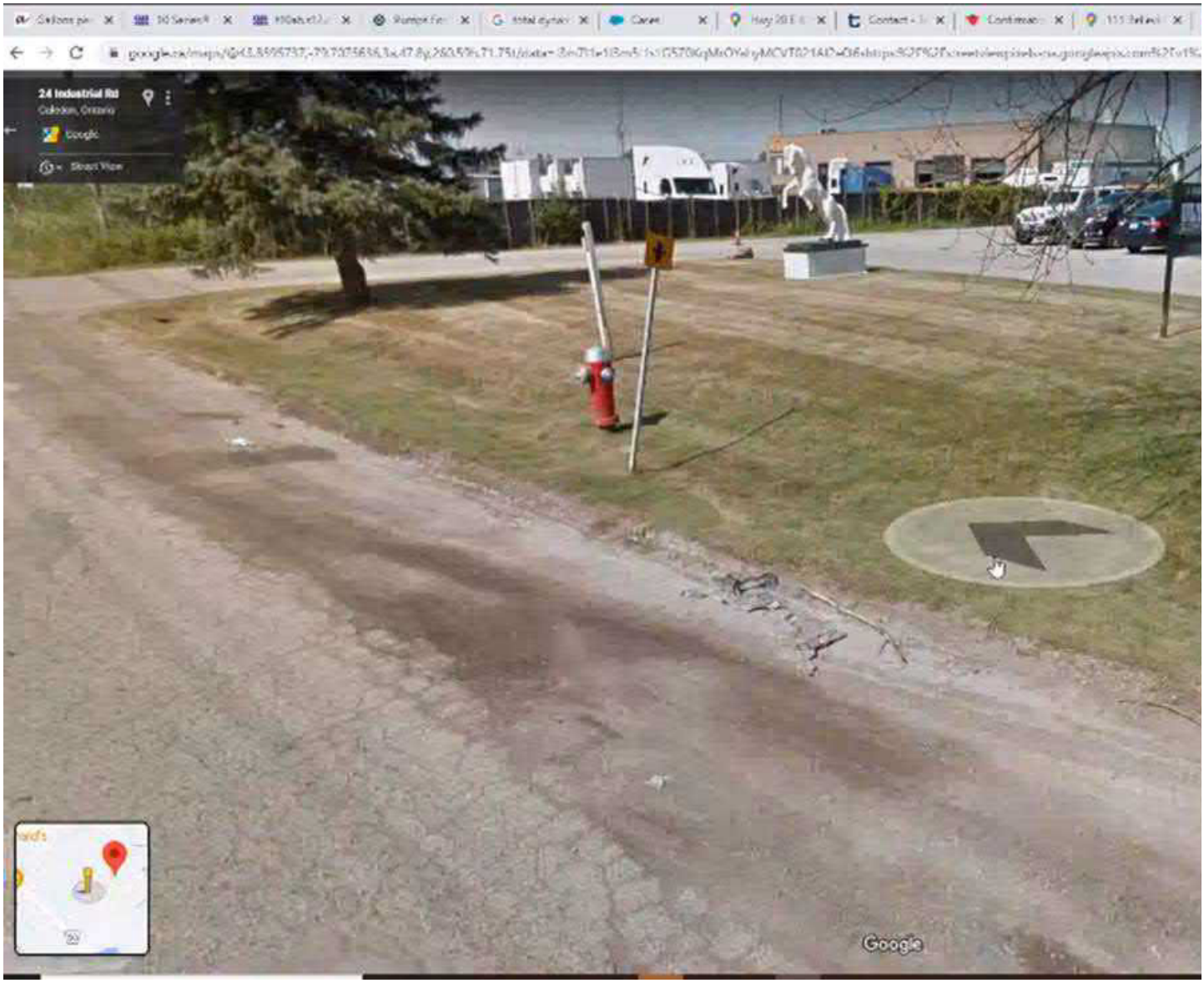
Table 8: Summary of Peak Flow Rates Towards Industrial Road

Storm Event (year)	Peak Flow Rate (L/s)				Total Post-Development Peak Flow (L/s)
	Pre-Development	Post-Development			
	Catchment 102	*Catchment 202 Orifice Discharge*	*UC3*	*UC4*	
2	266.7	97.9	2.56	2.98	103.4
5	341.2	125.3	3.28	3.81	132.3
10	417.4	145.0	4.01	4.66	153.6
25	486.8	189.8	4.68	5.44	199.9
50	548.1	195.1	5.27	6.12	206.5
100	611.4	211.0	5.87	6.83	223.7

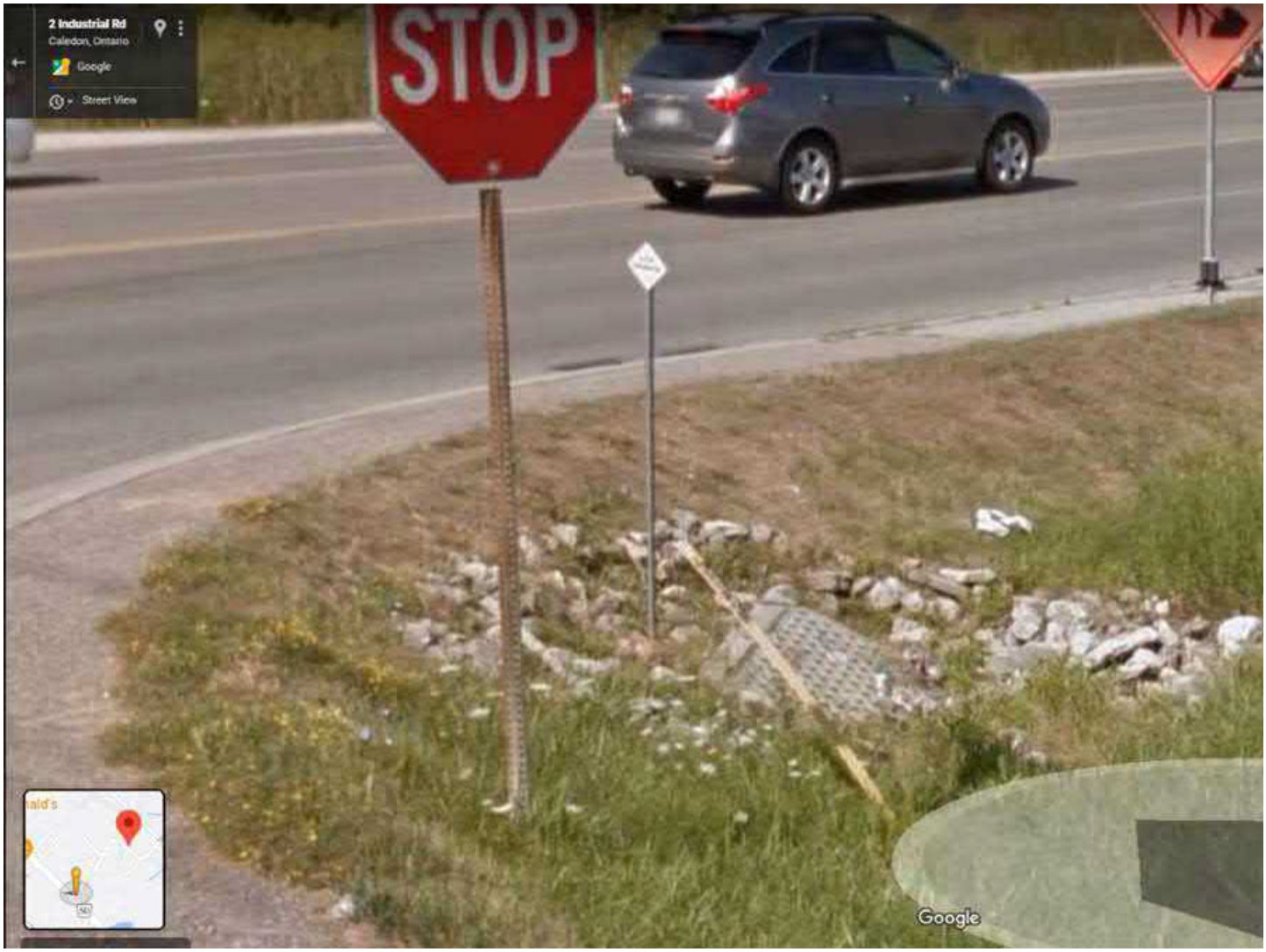
The allowable discharge to Industrial Road will be limited to a flow that is based on the runoff generated each storm event over Catchment 102. This allowable discharge rate to the Industrial Road ditch from the Site was estimated to be 611.4 L/s for the 100-year event.

Proposed Discharge flows (reduced from existing)

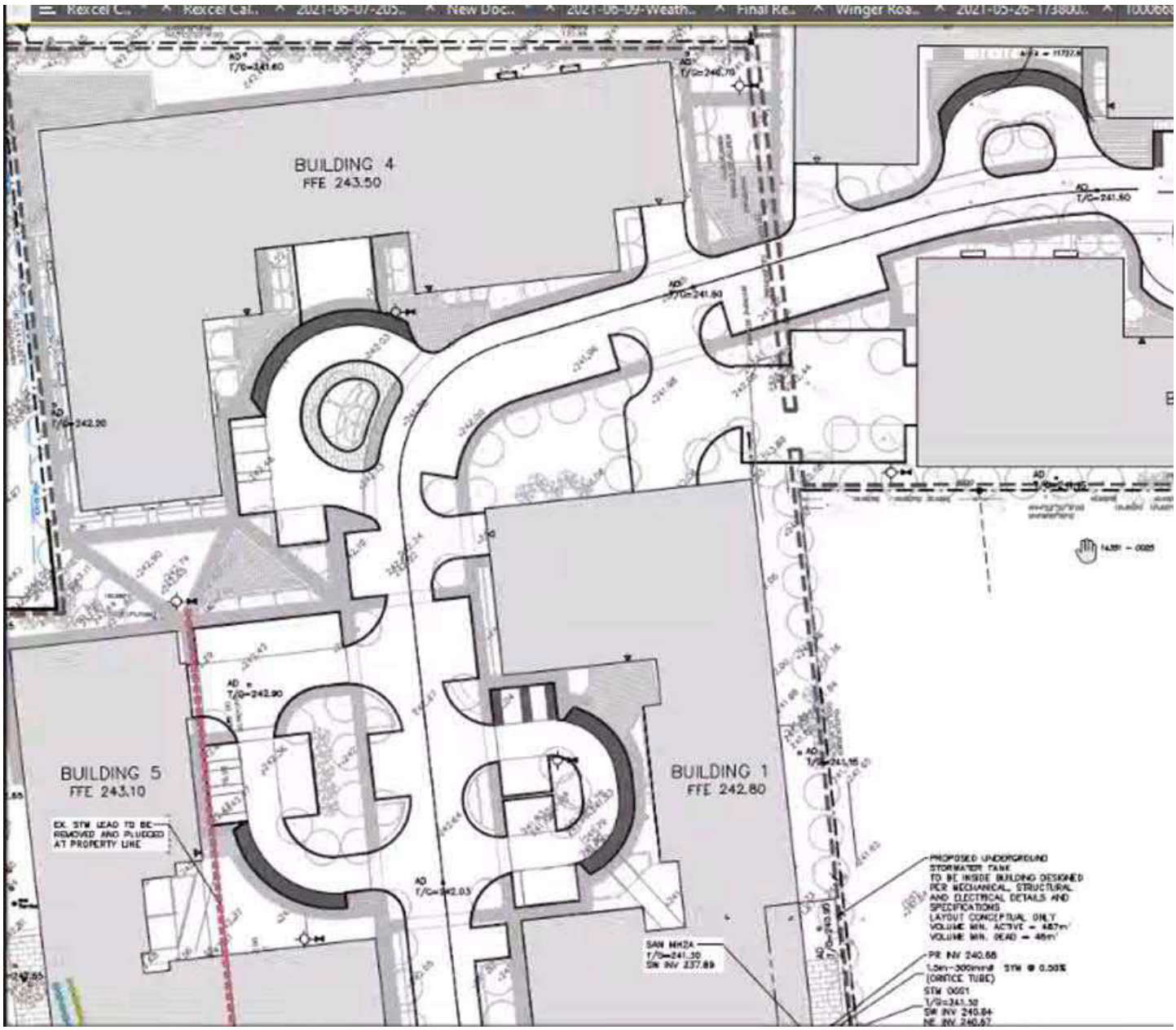
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Approximate discharge location at Industrial Road



RR50/ Industrial Rd intersection, ditches merge



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Oliver Olberg
Manager of Hydraulic Modelling

P: (416) 497-8600 ext. 1463
C: (647) 687-6814

R.V. Anderson Associates Limited
2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8

rvanderson.com

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: June 14, 2021 10:52 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>

Cc: Oliver Olberg <OOlberg@rvanderson.com>; Courtney Row <CRow@rvanderson.com>
Subject: FW: 194615-RR50-FW: OZ-21-003C - RE: Impact Agenda Meeting - June 9th, 2021

Hi Syeda,

I fowarded this to our SWM team for a response (see below). Please advise if this is sufficient of if you'd like us to look into with more detail.

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Oliver Olberg
Manager of Hydraulic Modelling

P: (416) 497-8600 ext. 1463
C: (647) 687-6814

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2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8

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Based on the Pre-development drainage plan, currently an area of 1.28 ha with a runoff coefficient of 0.5 (TIMP = 43%) which corresponds to allowable release rates of 237.8 L/s and 348.3 L/s under 10-year and 100-year, respectively drain into the east side ditch of RR50. The proponent designed a stormwater management tank and uncontrolled areas, UC1 and UC2 which is set out to release a total of 154.2 L/s and 224.5 L/s under 10-year and 100-year, respectively, which are well below the allowable release rates. In the post-development scenario, since the release rates are below the pre-development release rates – we don't expect any adverse impacts on the ditch capacity and the creek.

However, please note that we have not modeled the ditch capacity on the east side of RR50 or considered external drainage areas (that includes the proponent's site) since we are not proposing any MUP or drainage improvements on the east side of RR50 north of George Bolton Parkway intersection . Our model assumes that the ditch area goes into 825 mm HDPE storm sewer towards George Bolton intersection which was done to check capacity and estimate representative flows from the entire ROW. Since the proposed flows are reduced vs. existing, there should not be any negative impact regarding the roadside ditch capacity. If the Region wants us to look in detail at the impacts, we would need to add more detail to the model for this side of the road and adjacent properties including the development proposal. The modification of the model and analysis of results could be done under a different scope if wanted? But from the above data, it looks like this would not really be required. Please see snippet below –



From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: June 8, 2021 8:56 PM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Subject: FW: OZ-21-003C - RE: Impact Agenda Meeting - June 9th, 2021

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Hi Andrew,
I am passing on the attached information regarding a development application along Hwy 50 without reviewing it myself. Please, check the proposal any conflicts with respect to our proposed recommendation. If anything else comes to mind, please do let me know.
Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Prowse, Dylan <dylan.prowse@peelregion.ca>
Sent: June 8, 2021 2:03 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Razao, Ricardo <ricardo.razao@peelregion.ca>
Cc: Homagain, Abiral <abiral.homagain@peelregion.ca>
Subject: RE: OZ-21-003C - RE: Impact Agenda Meeting - June 9th, 2021

Hi Syeda,

Thanks for reaching out on this. Ricardo is the planner on file for this so I am passing your message along to him but, I have attached the FSR and pre/post-development flow plans here for your reference in the meantime.

Best,

Dylan Prowse
Junior Planner
Development Services
Region of Peel
10 Peel Centre Drive Suite A, 6th Floor

In response to the emergence of the novel coronavirus, the Region of Peel is implementing various measures to protect our customers, employees and workplaces. Development Services will endeavour to maintain the continuity of our business operations, however delays in service may still be experienced. We appreciate your patience during this time.

We have recently updated our website to better serve your needs. For information on Planning and Engineering matters of Regional interest, please visit this link : https://www.peelregion.ca/planning/about/devservices.htm . Let us know how we can serve you better

---

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: June 8, 2021 1:30 PM
To: Reinders, Jamie <jamie.reinders@peelregion.ca>; Andison-Boyle, Amie <amie.andison-boyle@peelregion.ca>; Prowse, Dylan <dylan.prowse@peelregion.ca>; Homagain, Abiral <abiral.homagain@peelregion.ca>; Frandsen, Iwona <iwona.frandsen@peelregion.ca>; Marczuk, Camila <camila.marczuk@peelregion.ca>; Sniatenchuk, Bernadette <bernadette.sniatenchuk@peelregion.ca>; Carrick, Sean <sean.carrick@peelregion.ca>; Hamdani, Hashim <hashimali.hamdani@peelregion.ca>; Mohammadi, Rojan <rojan.mohammadi@peelregion.ca>
Cc: Nieuwenhuysen, Bob <bob.nieuwenhuysen@peelregion.ca>; Saini, Sakshi <sakshi.saini@peelregion.ca>
Subject: RE: OZ-21-003C - RE: Impact Agenda Meeting - June 9th, 2021

Hi,

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I just came to know about this development application from Jamie's email below on which I was copied. As, he mentioned there is an ongoing Hwy 50 Drainage Improvements EA (Mayfield to Healey Rds). We are looking at changing/improving road drainage and active transportation solutions in this stretch. Hence, the application should synchronize with our project recommendations. I tried to access the drainage/stormwater management reports quickly but didn't find them.
Can you please, ask the proponent to provide a summary of their recommendations for stormwater management particularly what is coming to Hwy 50 and also the side walk in front of their property? I will have to discuss it with my EA consultant to confirm our final comments.
If you have any comments or questions, please let me know.
Thanks.

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Reinders, Jamie <jamie.reinders@peelregion.ca>
Sent: June 8, 2021 9:37 AM
To: Andison-Boyle, Amie <amie.andison-boyle@peelregion.ca>; Prowse, Dylan <dylan.prowse@peelregion.ca>; Homagain, Abiral <abiral.homagain@peelregion.ca>; Frandsen, Iwona <iwona.frandsen@peelregion.ca>; Marczuk, Camila <camila.marczuk@peelregion.ca>; Sniatenchuk, Bernadette <bernadette.sniatenchuk@peelregion.ca>; Carrick, Sean <sean.carrick@peelregion.ca>; Hamdani, Hashim <hashimali.hamdani@peelregion.ca>; Mohammadi, Rojan <rojan.mohammadi@peelregion.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Kovach, Steven <steven.kovach@peelregion.ca>; Hercia, Rose <rose.hercia@peelregion.ca>; Masters, Lisa <lisa.masters@peelregion.ca>; Thomsen, Lori-Ann <lori-ann.thomsen@peelregion.ca>; Monti, Sherri <sherri.monti@peelregion.ca>; Mason, Jane <jane.mason@peelregion.ca>; Mann, Erin <erin.mann@peelregion.ca>; D'Souza, Derek <derek.dsouza@peelregion.ca>
Subject: OZ-21-003C - RE: Impact Agenda Meeting - June 9th, 2021

Hi everyone,

In regards to **OZ-21-003C:**
https://eim.peelregion.ca/llprd/llisapi.dll?func=ll&objId=96890558&objAction=browse and Project #18-4860 - Highway 50 Drainage Improvements EA - Mayfield Road to Healey Road, Town of Caledon.

This project is currently in the Environmental Assessment stage and its scope includes proposed drainage improvements and a multi-use path from Mayfield Road to Healey Road in Bolton.

Based on preliminary EA plans, **real estate requirements are not anticipated from these two properties.**

Please let me know if you have any questions.

Thank you,

Jamie Reinders
Capital Acquisition Agent | Real Estate
The Regional Municipality of Peel
10 Peel Centre Drive, Suite B, 6th Floor
Brampton, ON L6T 4B9
Office Phone: 905-791-7800 ext. 7371

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Cell Phone: 416-671-3237

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From: Mann, Erin <erin.mann@peelregion.ca>
Sent: June 8, 2021 7:59 AM
To: ZZL-Sec. Real Estate <ZZL-Sec.RealEstate@peelregion.ca>
Cc: Leong, Donna <donna.leong@peelregion.ca>
Subject: Impact Agenda Meeting - June 9th, 2021

Good Morning,

Re: June 9th, 2021 Impact Agenda

See the following EIM link(s) for Item(s) listed on the above-noted Agenda:

DI-21-216M: https://eim.peelregion.ca/llprd/llisapi.dll?func=ll&objId=96914050&objAction=browse

DI-21-218M: https://eim.peelregion.ca/llprd/llisapi.dll?func=ll&objId=96911896&objAction=browse&sort=name&viewType=1

SP-21-075M: https://eim.peelregion.ca/llprd/llisapi.dll?func=ll&objId=96904716&objAction=browse

SP-21-078M: https://eim.peelregion.ca/llprd/llisapi.dll?func=ll&objId=96891194&objAction=browse

SP-21-096B: https://eim.peelregion.ca/llprd/llisapi.dll?func=ll&objId=96898300&objAction=browse

SP-21-099B: https://eim.peelregion.ca/llprd/llisapi.dll?func=ll&objId=96910762&objAction=browse

SP-21-101B: https://eim.peelregion.ca/llprd/llisapi.dll?func=ll&objId=96898313&objAction=browse

OZ-21-003C: https://eim.peelregion.ca/llprd/llisapi.dll?func=ll&objId=96890558&objAction=browse

NOTE: If you do not see our "Real Estate" folder, it will be located in the folder named "01. First Submission".

Please advise the following individuals of any requirements or concerns with the said Agenda item(s):

1. Amie Andison-Boyle (for Caledon applications), Daniela Busca (for Brampton applications) **OR** Tamara Raule (for Mississauga applications);
2. the planner;
3. the project engineer;
4. Iwona Frandsen, Technical Analyst and Camila Marczuk, Development Technician, Development Engineering;
5. Bernadette Sniatenchuk, Development Facilitator, Planning; and
6. if it is a traffic and/or road issue, please advise Sean Carrick.

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For ease of reference, would you kindly put the File Number in the Subject Heading.

In order to keep the Impact Meetings file up-to-date, **please copy Steve K., Rose, Lisa, Derek, Lori-Ann, Sherri and Erin on any correspondence.**

Thank you.

Erin Mann
Assistant, Real Estate
The Regional Municipality of Peel
10 Peel Centre Drive, Suite B, 6th Floor
Brampton, ON L6T 4B9
Phone: 905-791-7800 ext 7665
Fax: 905-791-3645 Toll Free: 1-888-919-7800
erin.mann@peelregion.ca

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Subject: RE: Hwy 50 Culvert Inspection - Update & Next Steps

From: Lee, Anna (Public Works) <anna.lee2@peelregion.ca>
Sent: Monday, November 29, 2021 8:36:10 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: Hwy 50 Culvert Inspection - Update & Next Steps

Hi Syeda:

Would your Consultant have any capacity to carry out the permit required works? Trevor is currently working hard to meet a few critical AM tasks before our annual reporting is due to CAM in January. It will be hard for him to assist with this permit work including contacting TRCA. Please let me know.

Thanks,
Anna

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: November 26, 2021 10:51 AM
To: Woodtke, Trevor <trevor.woodtke@peelregion.ca>; Paquette, Samantha <samantha.paquette@peelregion.ca>
Cc: Lee, Anna (Public Works) <anna.lee2@peelregion.ca>
Subject: RE: Hwy 50 Culvert Inspection - Update & Next Steps

Hi Trevor,
Thanks for leading this work. I would suggest reaching out to TRCA with a suggested action plan as you mentioned below would be helpful so that there are no surprises such as MECP and DFO permits etc.
Regards,

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Woodtke, Trevor <trevor.woodtke@peelregion.ca>
Sent: November 26, 2021 10:08 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Paquette, Samantha <samantha.paquette@peelregion.ca>
Cc: Lee, Anna (Public Works) <anna.lee2@peelregion.ca>
Subject: RE: Hwy 50 Culvert Inspection - Update & Next Steps

Hi all,

I've been reviewing the TRCA permit requirements and consulted Road Ops on their experiences with culvert cleaning and permits/approvals. For this Hwy 50 culvert inspection by cctv, as it is 50% surcharged, we will have to dewater and/or remove sediment which will require permits/approvals.
TRCA – Yes

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DFO – No, based on their available online map
MNRF / MOE – TBD
Other (Legal): acquire a PTEs – equipment setup on the driveway access, pond located on same private property as drive access

TRCA approval:
We will need some plans to support our permit application; i.e. P&P, ESC (coffer dam, pumping), TRCA standard notes. Road Ops had the CAD prepare some quick plans. However, as we do not have any as-builts for this culvert, we may need to have the Survey group capture some key info; i.e. inverts, obverts, pond/channel depths and cross-section, property limits, etc. Than have the CAD group prepare the plans using this base info.
Not sure if we have to apply for the debris removal for culvert maintenance streamline process, or a regular permit.

MNRF/MOE approval:
Not sure if we need to do a species at risk assessment given that we're dewatering. I don't believe Road Ops went to this extent and not sure if the TRCA will advise either.

DFO:
Based on the DFO's online mapping, it doesn't appear the watercourse is of interest.

Before I take any further action, do you think I should touch base with the TRCA again just to confirm their permit application submission requirements?

Thoughts?

Trevor Woodtke, C.Tech.
(he/him)
Asset Management Specialist
Public Works | Transportation
Infrastructure Programming & Studies

-----Original Appointment-----
From: Woodtke, Trevor
Sent: November 16, 2021 8:23 AM
To: Woodtke, Trevor; Banuri, Syeda; Paquette, Samantha
Cc: Lee, Anna (Public Works)
Subject: Hwy 50 Culvert Inspection - Update & Next Steps
When: November 18, 2021 9:30 AM-10:00 AM (UTC-05:00) Eastern Time (US & Canada).
Where: Microsoft Teams Meeting

Agenda:
1. Visual inspection findings
2. Next steps

Microsoft Teams meeting

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To: Andrew McGregor
Subject: RE: 18-4860 - Region of Peel Highway 50 Drainage Improvements EA and Preliminary Design

---

From: Quigley, Brandon <brandon.quigley@peelregion.ca>
Sent: Tuesday, February 1, 2022 3:44 PM
To: Banuri, Syeda
Subject: RE: 18-4860 - Region of Peel Highway 50 Drainage Improvements EA and Preliminary Design

Hello Syeda,

I had an opportunity to go through the draft reports and plans. The only comment I have (which should not be a surprise):

As mentioned in previous discussions, the intersection at George Bolton Parkway will need further changes ensure safe and coherent crossing movement for cyclists and other road users, especially east-west movements. Some of this can occur during detailed design stages of the project, but more refinement at the EA stage would be welcomed, if feasible.

Generally, the plans look very good for most of the corridor. Thank you for the opportunity to comment. Please keep me updated as the EA proceeds towards a PIC and its completion.

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: January 6, 2022 4:11 PM
To: Garbos, Olek <olek.garbos@peelregion.ca>; Zia, Solmaz <solmaz.zia@peelregion.ca>; Reinders, Jamie <jamie.reinders@peelregion.ca>; Jamroz, Damian <damian.jamroz@peelregion.ca>; Hassan, Mohammad <mohammad.hassan@peelregion.ca>; Ryan.Grodecki@caledon.ca; Tatla, Manvir <manvir.tatla@peelregion.ca>; Quigley, Brandon <brandon.quigley@peelregion.ca>; Salehzadeh, Farshad <farshad.salehzadeh@peelregion.ca>; Borowiec, Laura <laura.borowiec@peelregion.ca>; Ponce Vanelli, Italia <italia.ponce@peelregion.ca>; ZZG-Peel Health & Built Environment <zzg-peelhealthbuiltenvironment@peelregion.ca>; ZZG-PWI <pwi@peelregion.ca>; Bennington, Michael <michael.bennington@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; Estephan, Therese <therese.estephan@peelregion.ca>; chawkant.chawla@caledon.ca; Cassie Schembri <Cassie.Schembri@caledon.ca>; jay.menary@caledon.ca; shun.cheung@caledon.ca; Arash Olia <arash.olia@caledon.ca>; Estephan, Therese <therese.estephan@peelregion.ca>; Sabrina Davidson <sabrina.davidson@caledon.ca>; Saini, Sakshi <sakshi.saini@peelregion.ca>; jairo.morelli@trca.ca; Emma Benko <emma.benko@trca.ca>; susan.bevan@trca.ca; Caughey, Rebecca <rebecca.caughey@peelregion.ca>
Cc: Rook, Sally <sally.rook@peelregion.ca>; Saddi, Asha <asha.saddi@peelregion.ca>; Courtney Row <CRow@rvanderson.com>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: 18-4860 - Region of Peel Highway 50 Drainage Improvements EA and Preliminary Design

Dear TAC members,
Happy New Year!
We received your initial comments last year for the preliminary recommendations and alternatives considered for **Highway 50 Drainage Improvements EA**. The project team has now updated the preliminary recommendations and prepared *draft* reports and *draft* Plans. It is provided for your further review and feedback. I would like to request you to take a look at the relevant information and provide your comments if any by **February 7th , 2022.**

From:	Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent:	August 10, 2022 3:43 PM
To:	Andrew McGregor
Cc:	Courtney Row
Subject:	Fwd: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report
Attachments:	194615_20220729_EA and Preliminary Design for Drainage Improvements of Highway 50 - TSS Comments.pdf
Categories:	Filed by Newforma

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FYI

Get Outlook for iOS

From: Caughey, Rebecca <rebecca.caughey@peelregion.ca>
Sent: Tuesday, August 9, 2022 3:29 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

Hi Syeda.

My comments are as follows:

- Confusion as to how Highway 50 at Mayfield Road/Albion Vaughan Road is portrayed throughout the document.
- No space between hyphenated words such as right-of-way etc,
- Healey is spelled wrong as noted in the attachment
- It should be noted that since the sidewalk and the multi-use paths are behind the roadway lighting, there may be a requirement to have backlighting installed to ensure the MUP and sidewalk and properly lit

Thanks,

Rebecca Caughey
Supervisor, Traffic Signals and Streetlighting
Traffic Engineering
Region of Peel
10 Peel Centre Drive, 4th Floor, Suite B
Brampton, Ontario, L6T 4B9
Office - 905-791-7800 ext. 7851
Cell - 905-866-4142

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: August 19, 2022 2:16 PM
To: Courtney Row; Andrew McGregor
Subject: FW: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

Categories: Filed by Newforma

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Fyi

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Nezami, Sona <sona.nezami@peelregion.ca>
Sent: August 19, 2022 1:29 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

Hi Syeda,
Additional comments:

In the EA main document, please ensure addition of the following:

- A section with all recommendations resulting from the study (sewers/culverts replacement/upgrades, AT, road/intersection improvements, expected resurfacing/pavement repair, etc.)
- What coordination has been completed with Town of Caledon specially at intersections with Town roads including but not limited to George Bolton as well as what coordination is left for detailed design stage.

Also, if we can get a list of stakeholders contacts who they were in contact with separate from EA, it will help us a lot during detailed design.

Thanks,

Sona Nezami, MASc, P.Eng.
Project Manager
Roads - Design & Construction
Transportation Division

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: August 24, 2022 2:39 PM
To: Andrew McGregor; Courtney Row
Subject: FW: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report
Attachments: 009-S701 (edited DRAFT).doc

Categories: Filed by Newforma

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

fyi

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Saini, Sakshi <sakshi.saini@peelregion.ca>
Sent: August 24, 2022 2:35 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: RE: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

Attached is the CLI ECA , Appendix A has the stormwater management criteria.

Sakshi Saini, P.Eng.
Project Manager, Infrastructure Programming and Studies – Stormwater
Transportation, Public Works
Region of Peel
Cell: 905-872-1744

From: Saini, Sakshi
Sent: August 10, 2022 3:51 PM
To: Banuri, Syeda <Syeda.Banuri@peelregion.ca>
Subject: RE: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

My comments are as follows:

- Under section 3.2 and 3.3 - please add the following wording in the EA: "The MECP is in the process of issuing a Stormwater CLI ECA to the Region of Peel. The Stormwater CLI ECA covers storm assets servicing regional roads, namely storm sewers, ditches, SWM facilities and LID, and Stormwater Pumping Stations. The Stormwater CLI

ECA sets forth conditions for alterations to the stormwater system as well as ongoing operation of the system. The ECA comes with criteria for design of alterations to the Region's existing stormwater system. At the time of completion of the EA study, the CLI ECA template and criteria were not available, therefore the EA recommendations do not guarantee compliance with the CLI ECA conditions and criteria. It is recommended that at the Detailed Design Stage, the Engineering Consultant re-assess the EA recommendations against the CLI ECA criteria and make the necessary adjustments and changes to the stormwater recommendations to be in compliance."

- 4.3.1 first para - conversion of rural ditch system to an urban storm sewer system will trigger the new CLI ECA criteria. Add the words: "The design of the storm sewer system is subject to conditions of the forthcoming CLI ECA."
- 4.3.1 first para – Q. does the external area have water quality measures as per MECP stormwater manual? If not, has an assessment been completed to assess whether the downstream "pond" has the capacity to treat, as per the MECP SWM manual, all of the flow from this external area? If so, please include this in the report.
- 7.3.3 and 7.3.4 – please include recommendation for installing monitoring well and inspection ports for ease of inspection and monitoring.
- General comment – Specify if the model considers the control from the LID measures. Also, state what volume control the LIDs are conceptually able to achieve based on site conditions and LID footprint. Specify if the LID measures are in a treatment train or treating separate areas. If treating separate areas, please estimate the volume control conceptually achievable for each area.

Sakshi Saini, P.Eng.
Project Manager, Infrastructure Programming and Studies – Stormwater
Transportation, Public Works
Region of Peel
Cell: 905-872-1744

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: August 30, 2022 10:47 AM
To: Andrew McGregor; Courtney Row
Subject: FW: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

Categories: Filed by Newforma

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FYI

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Sabrina Davidson <Sabrina.Davidson@caledon.ca>
Sent: August 30, 2022 9:16 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Arash Olia <arash.olia@caledon.ca>
Subject: RE: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

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Hi Banuri,

Thank you for the opportunity to review. My comments are as follows.

Section 2.2 Existing Conditions (AT)

- *An existing sidewalk also exists along the east side, at the southernmost boundary of the study area*
- *Include a description of existing conditions for cyclists (or mention none exist)*

Section 4.4 Alternative Solutions (AT)

- *Alternative 2 & 3: It mentions that the cycle track on the east side would accommodate pedestrians. Please clarify.*
- *Alternative 2, 3, 4, 5 & 6: Elaborate on the meaning of "maintains existing amenities only". Is this specifically in reference to not adding any additional sidewalks?*

- *Alternative 7 does not look at connecting the sidewalk on the east side down to Mayfield Rd. It is Town standard to include sidewalks on both sides of all arterial & collector roads. Further, this section was also identified as a pedestrian improvement corridor so this pedestrian connection should be a priority.*

Thank you,

Sabrina Davidson
Coordinator, Sustainable Transportation
Engineering Services Department

Office: 905.584.2272 x.4012
Email: sabrina.davidson@caledon.ca

Town of Caledon | www.caledon.ca | www.visitcaledon.ca | Follow us @YourCaledon

---

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Friday, July 29, 2022 3:21 PM
To: Saini, Sakshi <sakshi.saini@peelregion.ca>; Emma Benko <emma.benko@trca.ca>; Susan Bevan <susan.bevan@trca.ca>; Jairo Morelli <jairo.morelli@trca.ca>; Nezami, Sona <sona.nezami@peelregion.ca>; Reinders, Jamie <jamie.reinders@peelregion.ca>; Arash Olia <Arash.Olia@caledon.ca>; Ryan Grodecki <Ryan.Grodecki@caledon.ca>; Ben Pressman <Ben.Pressman@caledon.ca>; Crawford, Mark <mark.crawford@peelregion.ca>; Despins, Christopher <christopher.despins@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; Kant Chawla <Kant.chawla@caledon.ca>; ZZG-Peel Health & Built Environment <zzg-peelhealthbuiltenvironment@peelregion.ca>; ZZG-PWI <pwi@peelregion.ca>; Bennington, Michael <michael.bennington@peelregion.ca>; Hassan, Mohammad <mohammad.hassan@peelregion.ca>; Rojan Mohammadi <rojan.mohammadi@peelregion.ca>; Rosalie Shan <rosalie.shan@peelregion.ca>; Quigley, Brandon <brandon.quigley@peelregion.ca>; Gardiner, Len <len.gardiner@peelregion.ca>; Ponce Vanelli, Italia <italia.ponce@peelregion.ca>; Cassie Schembri <Cassie.Schembri@caledon.ca>; Jay Menary <Jay.Menary@caledon.ca>; Shun Cheung <Shun.Cheung@caledon.ca>; Estephan, Therese <therese.estephan@peelregion.ca>; Zia, Solmaz <solmaz.zia@peelregion.ca>; Borowiec, Laura <laura.borowiec@peelregion.ca>; Sabrina Davidson <Sabrina.Davidson@caledon.ca>; Jamroz, Damian <damian.jamroz@peelregion.ca>; Caughey, Rebecca <rebecca.caughey@peelregion.ca>; Saddi, Asha <asha.saddi@peelregion.ca>; Chan, Andrea <andrea.chan@peelregion.ca>; Smith, Neal <neal.smith@peelregion.ca>; Lanthier, Jennifer <jennifer.lanthier@peelregion.ca>; Crawford, Heather <heather.crawford@peelregion.ca>
Cc: Courtney Row <CRow@rvanderson.com>; Andrew McGregor <AMcGregor@rvanderson.com>; Rook, Sally <sally.rook@peelregion.ca>
Subject: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the contents to be safe.

Dear TAC members,

We are nearing the completion of the **Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements** to address a wide range of stormwater management and active transportation options for the **Highway 50 corridor from Mayfield Road to Healey Road**, in the Town of Caledon. The project alternatives were evaluated to provide viable solutions to satisfy both regulatory and climate change requirements.

We received your comments earlier this year for the recommendations and alternatives considered. The project team has updated the recommendations and documented the study process in the ***draft*** **Project File Report (PFR)**. All technical reports and plans are included in Appendices. We are now seeking your feedback on the *draft* PFR. For ease of distribution the shared folder made available to you earlier this year will be updated with the *draft* PFR and Appendices for your review and comments.

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: August 29, 2022 10:55 AM
To: Andrew McGregor; Courtney Row
Cc: Hank Xue
Subject: Re: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

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Hi Andrew,
Please, set up a meeting to go over the comments received and responses or how we will address in the final PFR. Then let's work towards filing the project towards the end of September or early October.
Thanks.
Syeda

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From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: Monday, August 29, 2022 10:22:19 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Courtney Row <CRow@rvanderson.com>
Cc: Hank Xue <HXue@rvanderson.com>
Subject: RE: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

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Hi Syeda,

In response to Jamie's question re utility infrastructure, based on the utility information received through utility coordination at the EA stage, all utility conflicts could be resolved within the existing ROW or lands to be acquired in fee simple. Jamie's comments provided in his attachments will be addressed as required in the revised PFR.

Any follow up questions, please let us know.

Kind regards,

arva
Andrew McGregor, MCIP, RPP
SENIOR PLANNER, EA & APPROVALS
t 905 685 5049 ext. 4211 | m 905 964 4056
a 43 Church Street, Suite 104, St. Catharines, ON L2R 7E1

SUMMER HOURS: RVA celebrates the summer season from June 3rd to September 2nd. Our offices will be closed each Friday.
We will remain available to address any urgent or project related matters. For these matters, please contact mobile where provided.

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: August 16, 2022 6:56 AM
To: Courtney Row <CRow@rvanderson.com>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: Fwd: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

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FYI
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From: Reinders, Jamie <jamie.reinders@peelregion.ca>
Sent: Monday, August 15, 2022 3:16 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Kovach, Steven <steven.kovach@peelregion.ca>
Subject: RE: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

Hi Syeda,

Attached (in word and pdf) is the section related to property with my comments and suggested revisions.

I also have the following question: Is all utility infrastructure to be relocated within the ROW or lands to be acquired in fee simple, or is any utility infrastructure to be relocated on private property?

Thank you,

Jamie Reinders
Capital Acquisition Agent | Real Estate
The Regional Municipality of Peel
Phone: 416-671-3237
Email: jamie.reinders@peelregion.ca

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Friday, July 29, 2022 3:21 PM
To: Saini, Sakshi <sakshi.saini@peelregion.ca>; Emma Benko <emma.benko@trca.ca>; Susan Bevan <susan.bevan@trca.ca>; Jairo Morelli <jairo.morelli@trca.ca>; Nezami, Sona <sona.nezami@peelregion.ca>; Reinders, Jamie <jamie.reinders@peelregion.ca>; Arash Olia <arash.olia@caledon.ca>; Ryan Grodecki <ryan.grodecki@caledon.ca>; Ben Pressman <Ben.Pressman@caledon.ca>; Crawford, Mark <mark.crawford@peelregion.ca>; Despins, Christopher <christopher.despins@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; Kant Chawla <Kant.chawla@caledon.ca>; ZZG-Peel Health & Built Environment <zzg-

From: Reinders, Jamie <jamie.reinders@peelregion.ca>
Sent: October 13, 2022 1:15 PM
To: Courtney Row; Banuri, Syeda; Andrew McGregor
Subject: RE: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

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Hi Courtney,

Thanks for your email.

I confirmed that the Region does not have an easement for the culvert at 12295 Hwy 50. Since the culvert is being replaced, ideally the culvert can be realigned completely within the ROW, otherwise, for culvert maintenance purposes, the EA should show fee simple or a permanent easement around the portion of the culvert that is on private property.

Thank you,

Jamie Reinders
Capital Acquisition Agent | Real Estate
The Regional Municipality of Peel
Phone: 416-671-3237
Email: jamie.reinders@peelregion.ca

From: Courtney Row <CRow@rvanderson.com>
Sent: October 12, 2022 10:02 AM
To: Reinders, Jamie <jamie.reinders@peelregion.ca>; Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

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Hi Jamie,

I have incorporated all of your comments and suggestions into the PFR. There was one item that I was hoping you were able to clarify in order to ensure that the content is satisfactory.

With respect to Commented ***[RJ12]: a portion of this culvert is located on private property. The culvert should either be realigned completely in the ROW (with TRCA approval) or fee simple should be acquired (similar to 12476 Hwy 50).***

The proposed entrance culvert is at the same location and has the same length as existing culvert found in topo survey. Can you please confirm if there is an existing property agreement with property owner at this location?

In response to your question below, the answer is yes all utility infrastructure will be relocated in the ROW or lands to be acquired in fee simple. There will be a updated map which will show the anticipated acquisitions at this time.

Please advise.

Courtney Row, C. Tech., CAN-CISEC (she / her)
FIELD / GIS TECHNICIAN

t 416 497 8600 ext. <1372> | m <647 285 9020>
a 2001 Sheppard Avenue East, Suite 300, Toronto, ON M2J 4Z8

rvanderson.com

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: October 12, 2022 8:59 AM
To: Andrew McGregor <AMcGregor@rvanderson.com>; Courtney Row <CRow@rvanderson.com>
Subject: Fwd: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

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FYI and response pls please,
Thanks. Syeda

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From: Reinders, Jamie
Sent: August 15, 2022 3:17 PM
To: Banuri, Syeda <Syeda.Banuri@peelregion.ca>
Cc: Kovach, Steven <Steven.Kovach@peelregion.ca>
Subject: RE: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

Hi Syeda,

Attached (in word and pdf) is the section related to property with my comments and suggested revisions.

I also have the following question: Is all utility infrastructure to be relocated within the ROW or lands to be acquired in fee simple, or is any utility infrastructure to be relocated on private property?

Thank you,

Jamie Reinders
Capital Acquisition Agent | Real Estate
The Regional Municipality of Peel
Phone: 416-671-3237
Email: jamie.reinders@peelregion.ca

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Friday, July 29, 2022 3:21 PM
To: Saini, Sakshi <sakshi.saini@peelregion.ca>; Emma Benko <emma.benko@trca.ca>; Susan Bevan <susan.bevan@trca.ca>; Jairo Morelli <jairo.morelli@trca.ca>; Nezami, Sona <sona.nezami@peelregion.ca>; Reinders, Jamie <jamie.reinders@peelregion.ca>; Arash Olia <arash.olia@caledon.ca>; Ryan Grodecki <ryan.grodecki@caledon.ca>; Ben Pressman <Ben.Pressman@caledon.ca>; Crawford, Mark <mark.crawford@peelregion.ca>; Despins, Christopher <christopher.despins@peelregion.ca>; Lee, Anna (Public Works) <anna.lee2@peelregion.ca>; Kant Chawla <Kant.chawla@caledon.ca>; ZZG-Peel Health & Built Environment <zzg-peelhealthbuiltenvironment@peelregion.ca>; ZZG-PWI <pwi@peelregion.ca>; Bennington, Michael <michael.bennington@peelregion.ca>; Hassan, Mohammad <mohammad.hassan@peelregion.ca>; Rojan Mohammadi <rojan.mohammadi@peelregion.ca>; Rosalie Shan <rosalie.shan@peelregion.ca>; Quigley, Brandon <brandon.quigley@peelregion.ca>; Gardiner, Len <len.gardiner@peelregion.ca>; Ponce Vanelli, Italia <italia.ponce@peelregion.ca>; Cassie Schembri <Cassie.Schembri@caledon.ca>; Jay Menary <jay.menary@caledon.ca>; Shun Cheung <Shun.cheung@caledon.ca>; Estephan, Therese <therese.estephan@peelregion.ca>; Zia, Solmaz <solmaz.zia@peelregion.ca>; Borowiec, Laura <laura.borowiec@peelregion.ca>; Sabrina Davidson <sabrina.davidson@caledon.ca>; Jamroz, Damian <damian.jamroz@peelregion.ca>; Caughey, Rebecca <rebecca.caughey@peelregion.ca>; Saddi, Asha <asha.saddi@peelregion.ca>; Chan, Andrea <andrea.chan@peelregion.ca>; Smith, Neal <neal.smith@peelregion.ca>; Lanthier, Jennifer <jennifer.lanthier@peelregion.ca>; Crawford, Heather <heather.crawford@peelregion.ca>
Cc: Courtney Row <CRow@rvanderson.com>; Andrew McGregor <AMcGregor@rvanderson.com>; Rook, Sally <sally.rook@peelregion.ca>
Subject: RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

Dear TAC members,

R.V. Anderson Associates Limited
2001 Sheppard Avenue East Suite 300
Toronto Ontario M2J 4Z8 Canada
Tel 416 497 8600 Fax 855 833 4022
www.rvanderson.com

MEETING MINUTES

Regional Road 50 Drainage Improvements EA – TAC Meeting #2

DATE: October 30,2020

PLACE: Microsoft Teams Meeting Space (Online)

PROJECT NO.: 194615 Highway 50 Drainage Improvements Class EA & Preliminary Design

PRESENT: **Region of Peel (Region):** Syeda Banuri, Christopher Despins, Olek Garbos, Mark Knuckle, Bob Nieuwenhuysen, Sally Rook, Manvir Tatla, Mark Crawford, Anna Lee, Jamie Reinders, Farshad Salehzadeh, Matthew Aymar, Kiran Ghai, Sakshi Saini, Franca Ursitti.
Toronto and Region Conservation Authority (TRCA): Caroline Mugo, Harsha Gammanpila, Jairo Morelli.
Town of Caledon (Town): Ryan Grodecki, Arash Olia, Kant Chawla, Margi Sheth.
R.V. Anderson Associates Limited (RVA): Andrew McGregor, Oliver Olberg, Peter Cho, Courtney Row.
Other: (+12**-888-8829) Unknown Caller.

The purpose of this second meeting was to re-introduce the project and study, review the alternatives considered and preliminary recommendations for the corridor regarding stormwater management measures and active transportation amenities.

DISCUSSION:		**ACTION BY:**
1.	Goal to present to the public via a digital Public Information Centre (PIC) tentatively scheduled for January 2021.	RVA, Region
2.	Region briefly introduced project and RVA team. No further introductions.	Info
3.	RVA presented a Power Point presentation of the project, alternatives, and preliminary recommendations.	Info
4.	Project Overview: - Study area: Highway 50 (Regional Road 50) from Mayfield Road to Healey Road - Stormwater management / drainage / Low Impact Development (LID) improvements - Active Transportation improvements: cycle track or multiuse path - Schedule 'B' Class Environmental Assessment (EA) and 30% Preliminary Design - PIC planned for January 2021 - Liaise with technical agencies and consult with public throughout project.	Info

CANADA'S BEST MANAGED COMPANIES Platinum member

Region of Peel working with you

DISCUSSION: **ACTION BY:**

5. Estimated Project Timeline:

   - Notice of Study Commencement/Project Information displayed on Project Website: June 25, 2020
   - Public Information Centre: Winter 2020
   - Project File Report / Completion: Spring / Summer 2021

6. Study Area:

   - Hwy 50 from Mayfield Road to Healey Road (2.5km)
   - Urbanized corridor with commercial and industrial establishments along the corridor. Maintaining access to businesses will be a key component
   - Bisected by West Robinson Creek, part of Rainbow Creek sub-watershed (warm water fish community)
   - Drainage accommodated via ditches and storm sewers
   - No species at risk identified within the corridor
   - No cultural or archaeological areas of significance
   - Corridor designated by Region as a pedestrian improvement corridor

7. Other Projects in the Area:

   - Town of Caledon, Extension of George Bolton Parkway to Albion Vaughan Road
   - Region, Bridge Overpass Improvements at North end of study area
   - Region, Mayfield Road Improvements (RVA project)

8. Key Issues:

   - Failing culverts along the corridor require stormwater management improvements to address increasing severity of storm events resulting from climate change
   - Increasing Active Transportation amenities along the corridor increases the amount of impervious surface contributing runoff to the already failing or poor condition infrastructure
   - Increased flows to sewer system

9. SWM/LID Options under Consideration:

   - Do Nothing
   - Culvert Upgrades & replacements
   - Stormwater Management Ponds
   - Bioretention Facilities
   - Permeable Pavement
   - Oil Grit Separator Units
   - Superpipe Storage
   - Infiltration Chambers
   - Swale/Ditch Enhancements
   - Catch basin Capture Devices

DISCUSSION: **ACTION BY:**

10. Drainage, Filtration and Storage

- Enhancements to storage and filtration on site. No road widening therefore the amount of increased impervious surface is small.
- Goal to improve the current condition to accommodate the installation of the multiuse path or cycle track. Predevelopment conditions would be difficult to achieve because of multiple constraints in the area. Goal is to find a balance between identifying improvements to current infiltration and stormwater management, while reducing costs of construction and property acquisition.

11. Active Transportation Options

- Multi use trails and cycle paths considered on both east and west sides.

12. Evaluation and Recommendations

- Alternatives evaluated with respect to technical, social, natural, cultural, and archaeological as well as cost environments.
- Recommended to be carried forward:
    - Upgrades and Replacements of Failing Culverts
    - Bioretention Facilities
    - Oil Grit separator Units
    - Infiltration Trenches
    - Enhanced Roadside Ditches
    - Catch basin Capture Devices
    - Multi-use Path on West side (3 m)
- Stormwater Ponds, Permeable Pavement, and Superpipe Storage options were excluded due to factors such as high implementation and maintenance costs, and feasibility restrictions.
- Multi-use Path on the west side ties in with previously planned Active Transportation amenities south of the project limits. Creek runs along East side of corridor therefore having the path on the West side will reduce impacts to the watercourse. Increased property area along west side will reduce impact to properties.
- 3.0 metre multi-use path will accommodate pedestrians as well as cyclists which will also reduce the footprint required from adjacent landowners.

13. Study Plan Review

- Plans showing elements of the recommended SWM/LID features were reviewed. Key takeaways include:
    - Mayfield Road/Highway 50 north to Shell gas station. Drainage will be accommodated via infiltration chambers (previously determined from Mayfield Road Improvement

DISCUSSION: **ACTION BY:**

Project) and infiltration trenches to replace existing roadside ditches and improve capacity.
- Existing storm sewer to remain north of the gas station as there is very limited space to install LID in this area. The multiuse path or cycle track with also impact the amount of space available.
- Storm sewers are also maintained on the opposite side and will drain to the same outlet point into the creek. Oil and Grit separator (OGS) is recommended to treat water prior to discharging into the creek.
- In the next section there is an increase in area available, however due to widening from the multi-use path, bioswale boxes are recommended. These are narrower and will fit within the remaining footprint.
- In the area north of Simona Drive to George Bolton Blvd, existing utilities prevent significant LID improvements. Bioswale boxes are recommended along this section.
- North of George Bolton Blvd, where available space is limited and existing utilities are an issue, recommended drainage/SWM features are to include maintaining the existing storm sewers and a combination of trench drains and catch basin shields to be added to existing catch basins to filter out pollutants. Existing ditch sections along the road will be improved and OGS installed to clean road runoff
- Culverts will be investigated for relining or replacement if hydraulic insufficiencies exist.

14. Private Property

- Property acquisition will be required in area where multipurpose path or cycle track would otherwise require a curved alignment to continue (undesirable for continuity of active transportation and drainage).
- It was noted that permission will be required to upgrade culverts on private property.

15. Flows and Hydraulic Modelling

- TRCA and RVA are using updated modelling to size culverts and make sure the infrastructure is adequate. Current culverts are sized based on outdated data values for the watershed. Flow has increased since culvert installation about twenty years ago.
- Infoworks and HECRAS watercourse models used.
- Detailed drainage models along roadside will be further simulated to understand tail water conditions from roadside recommendations.

16. Operations and Maintenance

- Hydro vac of catch basins will incur the longest maintenance duration. Catch basin shields require removal and replacement

DISCUSSION: **ACTION BY:**

therefore placing within the manhole will be avoided as much as possible to mitigate the maintenance required.
- Region would like to know to know how many are proposed for planning. Operations Dept requires inventory of new designs and assets for LIDs
- Maintenance plan to be incorporated into detailed design

17. Removal Targets

- Anticipate removal of close to 80% of suspended solids through the CB Shield and combination of OGS measures.
- To implement any other measures (e.g., jellyfish) to reach 80% would be a substantial cost and trigger additional land acquisition.

18. Storm Pond on East Side

- Pond owned privately by police training academy. May be possible to incorporate into system to reach 80% Suspended Solid removal
- Pond could be impacted by Town's George Bolton Blvd Extension project. Town has completed retrofit works in the area. Margi Sheth (stormwater division) to provide information regarding George Bolton Parkway Extension and Project Manager Ian Toddhunter.

19. TRCA and Technical Agency Review

- TRCA requests opportunity for their Ecologist to review and comment. Emma Benko is the updated TRCA contact.
- RVA to provide a description writeup of proposed recommendations with areas and values included to assist with review
- On November 30th, 2020, proposed swale/ditch removal locations requested.

20. Municipal Service & Utility Impacts

- No impacts to utilities or planned utility relocations
- No anticipated impacts to water/ wastewater infrastructure.
- If more ditches are implemented relocation of watermains running through existing ditch profile could be required (very costly). Watermain in place is PVC; year of construction is unknown.

21. Cycle Track

- Region requested RVA consider a bidirectional cycle track along each side of the road (not recommended)
- Unidirectional path to be considered as part of evaluation table and indication "not recommended to be carried forward" included

22. Coordination with Other Projects for AT

- East side of bridge over rail tracks immediately north of the study area is to be replaced. West side will remain sidewalk.

DISCUSSION: **ACTION BY:**

- Proposed MUP needs to match up with future AT on East side. RVA to determine crossing location for MUP. Healey Road was put forward as a possible location
- 2021 Capital Projects Budget to include Queens Gate to Colombia Way. EA anticipated to commence in 2021.
- Uniform facility (e.g., MUP) across the entire corridor would be preferred

23. Next Steps

- TRCA Ecologist to review and provide comments
- RVA to provide general high level maintenance inventory
- Notice of PIC #2 to be sent out in Winter 2020 / 2021
- Host PIC #2 Online and receive input from public
- Complete ongoing studies and hydraulic modelling
- Confirm property requirements / acquisition and provide report to Region
- Confirm or revise recommendations further to input received
- Present Final recommendations to Senior Management and Council
- Draft Project File Report for mandatory 30-day review
- Complete design to standard 30%

Minutes prepared by: CR

Distribution: All in attendance

h:_2019\194615 - regional road 50 ea\d meetings\01 external\a. technical agencies committee meeting\tac meeting no. 2\194615_meetingminutes_20201104.docx

PLEASE ADVISE THE WRITER OF ANY ERRORS OR OMISSIONS WITHIN 1 WEEK OF RECEIPT OF THESE MINUTES

To: Andrew McGregor
Subject: RE: 12500 Highway 50 - SPA 20-22 - New Sidewalk

From: Jay Menary <Jay.Menary@caledon.ca>
Sent: December 2, 2020 1:08 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Adam Wendland <Adam.Wendland@caledon.ca>; Mohammadi, Rojan <rojan.mohammadi@peelregion.ca>; Alex Schittenhelm <Alex.Schittenhelm@caledon.ca>; Drew Haines <drew.haines@caledon.ca>
Subject: RE: 12500 Highway 50 - SPA 20-22 - New Sidewalk

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Hi Syeda,

As discussed, Town staff are currently processing a number of development applications within the project limits of the Highway 50 EA. Through the development applications Town staff intend to request sidewalk be constructed in the Highway 50 ROW fronting the property. Current projects and municipal addresses are listed below. Note that there are likely to be a number of other development applications within the EA project limits in the near future as well.

SPA 2020-0044 – 12476 Highway 50
SPA 2020-0022 – 12500 Highway 50
SPA 2015-0067 – 12544 Highway 50
SPA 2011-0040 - 12420 Highway 50 – Private side site works are complete – Town continues to securities for sidewalk construction on Highway 50 and Pillsworth Road

I understand that the preferred alternative for the EA is likely to include a multi-use trail on the west side of the Highway 50 ROW or potentially both sides of the ROW. Any information or direction you can provide regarding construction of active transportation works in the ROW will be appreciated.

Regards,

Jay Menary, C.E.T.
Technologist, Development Engineering
Office: 905.584.2272 x. 4175

From: Mohammadi, Rojan <rojan.mohammadi@peelregion.ca>
Sent: Wednesday, December 02, 2020 10:20 AM
To: Jay Menary <Jay.Menary@caledon.ca>
Cc: Adam Wendland <Adam.Wendland@caledon.ca>
Subject: FW: 12500 Highway 50 - SPA 20-22 - New Sidewalk

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the contents to be safe.

Hi Jay,

The project manager for the improvements along Hwy 50 is Seyda Banuri. You can contact her directly – see email below.
My understanding is typically the sidewalks are within the regional ROW.

I have send her the application to see if it would interfere with her work; however, I havent heard back from her.

I hope this helps.

Thank you

Rojan Mohammadi, MA, MCIP, RPP
Intermediate Planner | Development Services
905-791-7800 x8164

10 Peel Centre Drive (6th Floor – Suite A)
Brampton, Ontario
L6T 4B9

Region of Peel
working with you

From: Carlisle, Andrea <andrea.carlisle@peelregion.ca>
Sent: December 1, 2020 11:18 AM
To: Mohammadi, Rojan <rojan.mohammadi@peelregion.ca>
Subject: FW: 12500 Highway 50 - SPA 20-22 - New Sidewalk

Hi Rojan,

Syeda Banuri from IP&S is currently undertaking an EA along Highway 50 from Mayfield to Healey (some details attached), so the 12500 Hwy 50 application falls within the EA limits. The EA includes AT improvements, and may recommend an MUP on the west side. This application should be coordinated with Syeda as it relates to her project and timing of the works. Depending on the timing of the EA and this development application, it may make sense to address the existing sidewalk gap in the interim through development, with the understanding that it may be throwaway pending the recommendation(s) of Syeda's EA.

Let me know if you need anything else!

Cheers,

Andrea Carlisle
Analyst, Transportation Demand Management
Transportation, Public Works
Tel: 289.788.0107

From: Detaramani, Tina <tina.detaramani@peelregion.ca>
Sent: November 25, 2020 11:52 AM
To: Mohammadi, Rojan <rojan.mohammadi@peelregion.ca>
Cc: Quigley, Brandon <brandon.quigley@peelregion.ca>; Carlisle, Andrea <andrea.carlisle@peelregion.ca>
Subject: RE: 12500 Highway 50 - SPA 20-22 - New Sidewalk

Region of Peel
working with you

Hi Rojan

Brandon and Andrea are reviewing this file and will be able to provide comments accordingly.

Thanks
Tina

Tina Detaramani, MCIP, RPP
Manager, Sustainable Transportation and Strategic Initiatives
Transportation Division
416-278-3813



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From: Mohammadi, Rojan <rojan.mohammadi@peelregion.ca>
Sent: November 25, 2020 10:37 AM
To: Detaramani, Tina <tina.detaramani@peelregion.ca>
Subject: FW: 12500 Highway 50 - SPA 20-22 - New Sidewalk

Hi Tina,

Just following up with the question below. Do you have any comments?

Thank you

Rojan Mohammadi, MA, MCIP, RPP
Intermediate Planner | Development Services
905-791-7800 x8164

10 Peel Centre Drive (6th Floor – Suite A)
Brampton, Ontario
L6T 4B9



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From: Cassie Schembri <Cassie.Schembri@caledon.ca>
Sent: December 8, 2020 11:39 AM
To: Margi Sheth
Cc: Courtney Row; Banuri, Syeda; Andrew McGregor
Subject: RE: 194615 Stormwater Management Pond at Highway 50 and George Bolton

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi Margi,

So that we aren't duplicating efforts, I was in conversation with Andrew yesterday about this pond and I'm looking into details now.

I will provide response soon.

Thanks,
Cassie

Cassie Schembri
Senior Project Manager, Stormwater
Engineering Services Department

6311 Old Church Road
Caledon, ON L7C 1J6
Cell: 647.327.0060
Office: 905.584.2272

Town of Caledon | www.caledon.ca | www.visitcaledon.ca | Follow us @YourCaledon

---

From: Courtney Row <CRow@rvanderson.com>
Sent: Tuesday, December 8, 2020 11:18 AM
To: Margi Sheth <Margi.Sheth@caledon.ca>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>; Cassie Schembri <Cassie.Schembri@caledon.ca>; Peter Cho <pcho@rvanderson.com>; Hank Xue <HXue@rvanderson.com>; Oliver Olberg <OOlberg@rvanderson.com>; Matthew de Wit <MdeWit@rvanderson.com>; bob.nieuwenhuysen@peelregion.ca; Ryan Grodecki <Ryan.Grodecki@caledon.ca>
Subject: 194615 Stormwater Management Pond at Highway 50 and George Bolton

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Good morning Margi,

How are you?

My name is Courtney Row, I work for RVA and I am assisting with the Regional Road Highway 50 Drainage Improvements Class EA and Preliminary Design project.

Region of Peel
working with you

During the TAC Meeting #2, you mentioned contacting yourself or possibly Ian Todhunter, regarding further details about the George Bolton extension project and stormwater management (SWM) pond in the area.

The RVA project team, is interested in investigating the potential use of the SWM pond at the SE corner of George Bolton and Highway 50 intersection as part of our SWM enhancements.

Can you please provide any information you have regarding its current function, ownership, etc.?

We appreciate any input you can provide us with.

Thank you,

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Our NEW Halton and Halifax offices are now open.

Courtney Row
Field/GIS Technician (Trenchless & Environmental)

P: (416) 497-8600 ext. 1372
C: (647) 285-9020

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2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8

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R.V. Anderson Associates Limited
2001 Sheppard Avenue East Suite 300
Toronto Ontario M2J 4Z8 Canada
Tel 416 497 8600 Fax 855 833 4022
www.rvanderson.com

MEETING NOTES

COORDINATION MEETING WITH GM BLUEPLAN

Peel Region, Project # 18-4860
Regional Road 50 Drainage Improvements Class Environmental Assessment

DATE: May 7, 2020 at 2:00 pm

PLACE: Online Via MS Teams

PROJECT NO.: 194615

PRESENT: Syeda Banuri, Region of Peel (Region)
Zachary Francisco, GM BluePlan (GMBP)
James Jorgenson, GMBP
Spenser Carey, GMBP
Troy Poirier, RV Anderson Associates (RVA)
Andrew McGregor, RVA

PURPOSE: Purpose of the meeting was to ensure coordination between the studies and integration of the SWM models.

DISCUSSION:		**ACTION BY:**
1.	GMBP has started building the Regional SWM model using data from the TRCA asset registry. RVA is approximately 1 month from starting their modelling.	Info
2.	RVA to schedule a coordination meeting just prior to starting their modelling to discuss progress on the Regional model and data sharing. GM BluePlan is expecting to progress their model to a point where it can be shared and will provide a copy with documentation related to the model construction (design storms, land uses, catchment delineation, data sources).	RVA/GMBP
3.	InfoWorks ICM V10.5 software is being used to build the Regional SWM model. RVA to use the same software (and version) to ensure compatibility.	Info/RVA
4.	The RVA model will have a higher level of detail (driveway culverts, LID measures, etc) due to project design requirements, however it is not anticipated that this will be an issue when provided to GM BluePlan to incorporate into the Regional model.	Info
5.	RVA to keep GMBP informed of significant flow changes that may result from the proposed SWM design for RR50. This will allow GMBP to reflect these changes in the Regional model.	RVA
6.	The Region of Peel would like the results to be coordinated (and in agreement) for the RR50 study, the GMBP SWM master plan study and other downstream work being performed by RVA.	Info

Region of Peel
working with you

DISCUSSION:	ACTION BY:
7. RVA will share data provided by TRCA (i.e. the Aquafor Beech Humber River study, design criteria, etc) with GM BluePlan.	RVA

Notes prepared by: Andrew McGregor

Distribution: All present

PLEASE ADVISE THE WRITER OF ANY ERRORS OR OMISSIONS WITHIN 1 WEEK OF RECEIPT OF THESE NOTES

From: Lee, Arthur <arthur.lee@peelregion.ca>
Sent: Wednesday, June 24, 2020 1:26 PM
To: Banuri, Syeda
Cc: Nieuwenhuysen, Bob; Garbos, Olek
Subject: FW: **Follow up** PUCC from Vianet VNET-20-1741R1 - HWY 50 (NORTH OF HOPCROFT RD TO SIMONA)

Hi Syeda,

Olek reminded me that you have an EA on Hwy 50 between Mayfield and Healey (?). The following PUCC below will need to be revised soon to include the existing stormwater and sanitary sewers but I think it would important to have your consultants at RVA aware of the proposed work and provide and comments with the EA plans if any.
I will advise Susan to cc you with any revised documents once they arrive.

Regards,

Arthur Lee, P.Eng
Senior Designer
Infrastructure Programming and Studies, Transportation
Region of Peel
10 Peel Centre Dr., Suite B, 4th Floor
Brampton, ON L6T 4B9
905-791-7800, ext. 7872

From: DeJesus, Susan
Sent: June 15, 2020 10:31 AM
To: Nieuwenhuysen, Bob <Bob.Nieuwenhuysen@peelregion.ca>; Garbos, Olek <Olek.Garbos@peelregion.ca>; Lee, Arthur <arthur.lee@peelregion.ca>; Pietkiewicz, Joanna <Joanna.Pietkiewicz@peelregion.ca>; Masley, Mark <Mark.Masley@peelregion.ca>
Subject: PUCC from Vianet VNET-20-1741R1 - HWY 50 (NORTH OF HOPCROFT RD TO SIMONA)

Good day Bob, Olek, Arthur, Joanna and Mark:

Re: PUCC from Vianet VNET-20-1741R1
- HWY 50 (NORTH OF HOPCROFT RD TO SIMONA)

We received the attached PUCC from Vianet.

The CAD Team have reviewed and approved the clearances from the existing infrastructure but have asked for further review for the following:

1. 18-4860- Hwy 50 – EA assessment – Olek Garbos (Arthur Lee)
2. 14-1320- Joanna Pietkiewicz to review
3. Storm and Roads to review
4. Mark Masley to review for all Hydrant lead crossing.

Please review to ensure no conflicts.

Please provide review comments **by June 19th please.**

Thank you,

Susan De Jesus
PUCC Coordinator (Brampton and Caledon)
Engineering Technical Services
Region of Peel
10 Peel Centre Drive, Suite B, 4th Floor
Brampton ON L6T 4B9
Office 905 791-7800 ext. 7898
Toll Free 888 919-7800 ext. 7898
E-Mail Susan.DeJesus@peelregion.ca
General PUCC Mailbox PUCC.Applications@peelregion.ca

From: Faisal.Khan@HydroOne.com <Faisal.Khan@HydroOne.com> **On Behalf Of** hotosp@HydroOne.com
Sent: Thursday, June 25, 2020 5:41 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Michael.Aruta@HydroOne.com; ian.mitchell@HydroOne.com; Nadeen.Wajdi-Houjeily@HydroOne.com
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Good afternoon,

Hydro One Telecom has existing underground Fiber cable infrastructure (South West side of Parr Blvd & Highway 50) in project Limites. Please find the attached drawing.

Thanks,

Faisal Khan
Operations Services
Hydro One Telecom Inc.
65 Kelfield Street Rexdale,
Ontario M9W 5A3
Phone: **(416)-240-6805**
Fax: (416) 352-7769
hotosp@hydroone.com

From: MITCHELL Ian <ian.mitchell@HydroOne.com>
Sent: Thursday, June 25, 2020 4:44 PM
To: HOT OUTSIDE PLANT <hotosp@HydroOne.com>; WAJDI-HOUJEILY Nadeen <Nadeen.Wajdi-Houjeily@HydroOne.com>
Cc: ARUTA Michael <Michael.Aruta@HydroOne.com>
Subject: FW: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

FYI

Ian Mitchell | ian.mitchell@hydroone.com
Outside Plant Manager | (O) 416.240.6701 | (M) 647.287.3007
Hydro One Telecom Inc. | www.HydroOneTelecom.com
65 Kelfield Street, Toronto, ON., M9W 5A3

From:	Faisal.Khan@HydroOne.com on behalf of hotosp@HydroOne.com
Sent:	June 25, 2020 5:41 PM
To:	Courtney Row
Cc:	Michael.Aruta@HydroOne.com; ian.mitchell@HydroOne.com; Nadeen.Wajdi-Houjeily@HydroOne.com
Subject:	RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement
Attachments:	Parr Blvd & Highway 50 Caledon_Markup.pdf

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Thanks,

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Phone: **(416)-240-6805**
Fax: (416) 352-7769
hotosp@hydroone.com

From: MITCHELL Ian <ian.mitchell@HydroOne.com>
Sent: Thursday, June 25, 2020 4:44 PM
To: HOT OUTSIDE PLANT <hotosp@HydroOne.com>; WAJDI-HOUJEILY Nadeen <Nadeen.Wajdi-Houjeily@HydroOne.com>
Cc: ARUTA Michael <Michael.Aruta@HydroOne.com>
Subject: FW: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

FYI

Ian Mitchell | ian.mitchell@hydroone.com
Outside Plant Manager | (O) 416.240.6701 | (M) 647.287.3007
Hydro One Telecom Inc. | www.HydroOneTelecom.com
65 Kelfield Street, Toronto, ON., M9W 5A3

From: Courtney Row <CRow@rvanderson.com>
Sent: Thursday, June 25, 2020 4:18 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

*** Exercise caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

To address this, the study will consider:
- Best Industry Practices
- Climate Change Requirements
- Existing and Future Regulatory Requirements

In developing recommendations, all reasonable alternatives will be considered to minimize impact on adjacent businesses and the surrounding environment.

The intent of this email is to introduce you to the project and to request any relevant background information from you as it relates to the study area. Information that would be of interest includes:

- **Contact information** and the identification of individuals that represent your agency or group that we should include as a primary contact throughout the study process;
- **Description of the existing conditions or sensitivities** within the study area as they relate to your interests; and
- Specific **issues, concerns and/or expectations** that your agency, community or group may have.

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration. Information will also be posted on the study website (link below) as the study progresses.

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

Please respond with your comments or any questions by directly contacting the Project Manager, Syeda Banuri, listed on the attached notice.

Regards,

From: Matthew.Casey@HydroOne.com
Sent: June 25, 2020 5:15 PM
To: SouthernFBCPlanning@HydroOne.com; syeda.banuri@peelregion.ca
Cc: Andrew McGregor; Andre.DESHARNAIS@HydroOne.com; Courtney Row
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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Syeda,

Thank you for informing us about this proposed project. The main contact for Hydro One for this project will be through our SouthernFBCPlanning mailbox.

As far as I am aware, we have no proposed work with in your proposed work area.

Thanks,

Matt Casey

From: Courtney Row [mailto:CRow@rvanderson.com]
Sent: Thursday, June 25, 2020 4:18 PM
To: Courtney Row
Cc: Andrew McGregor; Banuri, Syeda
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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From: Courtney Row
Sent: June 26, 2020 11:39 AM
To: Renee.Pettigrew@HydroOne.com
Cc: Banuri, Syeda; Andrew McGregor
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Hello Renée,

Thank you for your response. I will forward the correspondence accordingly. Can you please resend the letter indicated in your email please? It does not appear to be attached to the email you sent.

Thank you,

RVA IS GROWING!
Our NEW Halton and Halifax offices are now open.

Courtney Row
Field/GIS Technician (Trenchless)

P: (416) 497-8600 ext. 1372
C: (647) 285-9020

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2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8

rvanderson.com

RVA celebrates the summer season from June 26th to September 4th. Our offices will be closed at 2 pm each Friday.

From: Renee.Pettigrew@HydroOne.com <Renee.Pettigrew@HydroOne.com>
Sent: Thursday, June 25, 2020 5:20 PM
To: Courtney Row <CRow@rvanderson.com>; SecondaryLandUse@HydroOne.com
Subject: FW: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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Thanks Courtney. As per the Government Review Team process please send all correspondence to the Hydro One's Secondary Land Use mailbox for process. I have forwarded you letter below.
Thanks,
Renée

Renée Pettigrew
Senior Manager, Environmental Programs and Approvals

Hydro One Networks Inc.
483 Bay Street | North Tower 12th Floor
Toronto, ON | M5G 2P5
Office: 416 345-6597 | Cell: 416 523-4688
renee.pettigrew@HydroOne.com

From: Courtney Row <CRow@rvanderson.com>
Sent: Thursday, June 25, 2020 4:18 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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- Description of the existing conditions or sensitivities within the study area as they relate to your interests; and
- Specific issues, concerns and/or expectations that your agency, community or group may have.

From: Courtney Row
Sent: June 26, 2020 11:14 AM
To: Brown, Franklin
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Categories: Filed by Newforma

Thank you. To you as well!

Regards,

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Courtney Row
Field/GIS Technician (Trenchless)

P: (416) 497-8600 ext. 1372
C: (647) 285-9020

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2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8

rvanderson.com

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From: Brown, Franklin <franklin.brown@bell.ca>
Sent: Friday, June 26, 2020 11:13 AM
To: Courtney Row <CRow@rvanderson.com>
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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No problem Courtney.

Have a good weekend,
Frank

Frank Brown
Bell Implementation Mgr.
21 First Ave.
Orangeville Ontario
L9W 1H7
franklin.brown@bell.ca
519-939-1011

From: Courtney Row <CRow@rvanderson.com>
Sent: June-26-20 11:12 AM
To: Brown, Franklin <franklin.brown@bell.ca>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; syeda.banuri@peelregion.ca; Saeed, Ahmed <ahmed.saeed2@bell.ca>
Subject: [EXT]RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Good morning Frank,

Thank you for your response and passing Ahmed's contact info along. I have updated our list.

Regards,

Courtney Row
Field/GIS Technician (Trenchless)

P: (416) 497-8600 ext. 1372
C: (647) 285-9020

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From: Brown, Franklin <franklin.brown@bell.ca>
Sent: Friday, June 26, 2020 8:25 AM
To: Courtney Row <CRow@rvanderson.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; syeda.banuri@peelregion.ca; Saeed, Ahmed <ahmed.saeed2@bell.ca>
Subject: FW: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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Hi Courtney:

I have copied Bell Manager Ahmed on this e-mail. Bolton is out of my territory and I believe this is in Ahmed's.

Thanks,
Frank

Frank Brown
Bell Implementation Mgr.
21 First Ave.
Orangeville Ontario
L9W 1H7
franklin.brown@bell.ca

From: PUCC Circulations GT <PUCC.circulations.GT@bell.ca>
Sent: July 2, 2020 1:57 PM
To: Courtney Row
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Follow Up Flag: Follow up
Flag Status: Flagged

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Group Telecom has no existing facility within the project limits.

From: Courtney Row <CRow@rvanderson.com>
Sent: June-25-20 4:18 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: [EXT]Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

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- Climate Change Requirements
- Existing and Future Regulatory Requirements

In developing recommendations, all reasonable alternatives will be considered to minimize impact on adjacent businesses and the surrounding environment.

The intent of this email is to introduce you to the project and to request any relevant background information from you as it relates to the study area. Information that would be of interest includes:

- Contact information and the identification of individuals that represent your agency or group that we should include as a primary contact throughout the study process;
- Description of the existing conditions or sensitivities within the study area as they relate to your interests; and
- Specific issues, concerns and/or expectations that your agency, community or group may have.

From: Darlene Quilty <dquilty@mhbcplan.com>
Sent: July 6, 2020 2:13 PM
To: Hank Xue
Cc: Andrew McGregor; Courtney Row; Jimmy Rathod; Oliver Olberg
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - TransCanada Pipelines

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Good Afternoon Hank,

TC Energy does not have any pipelines crossing Highway 50 between Mayfield Rd. and Healey Rd. The pipeline crosses Highway 50 just south of Major Mackenzie Dr., as shown below in orange:



If you have any questions let me know.

Thank you,

DARLENE QUILTY | Planning Co-ordinator

Special Note: Due to the Covid-19 outbreak, all our staff are working remotely and our offices are physically closed. We will make this transition as seamless as possible and we remain available during business hours.

MHBC Planning, Urban Design & Landscape Architecture
On behalf of TransCanada PipeLines Limited

Region of Peel working with you

113 Collier St. | Barrie | ON | L4M 1H2 | T 705 728 0045 x 243 | C 705 627 2302 | dquilty@mhbcplan.com |

Follow us: Webpage | Linkedin | Facebook | Twitter | Vimeo



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From: Hank Xue [mailto:HXue@rvanderson.com]
Sent: July-06-20 1:20 PM
To: Darlene Quilty
Cc: Andrew McGregor; Courtney Row; Jimmy Rathod; Oliver Olberg
Subject: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - TransCanada Pipelines

Good Afternoon Darlene,

On behalf of Region of Peel, R.V. Anderson Associates Limited is undertaking Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

As part of the scope, we are conducting a utility conflict assessment within the corridor. In order to achieve that, please provide us with a plan noting the location and description (including type, size, depths, clearances, offsets) of all existing and future proposed underground and above ground utilities. A plan drawing is enclosed showing you the area location, and digital files are available upon request.

Your co-operation in providing the information required is anticipated and appreciated. If you have any questions, do not hesitate to contact the undersigned.

Sincerely,

rva

RVA IS GROWING!
*Our NEW **Halton** and **Halifax** offices are now open.*

Hank Xue, P.Eng.
Design Engineer

P: (905) 685-5049 ext.4214
R.V. Anderson Associates Limited
43 Church Street, Suite 104, St. Catharines, ON L2R 7E1

www.rvanderson.com

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Region of Peel
working with you

From: Amy.EVELAND@HydroOne.com
Sent: July 7, 2020 11:44 AM
To: Hank Xue
Cc: Andrew McGregor; Courtney Row; Jimmy Rathod; Oliver Olberg; SouthernFBCPlanning@HydroOne.com; Amy.EVELAND@HydroOne.com
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Networks
Attachments: Municipal Relocate Process.pdf

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Good Morning,

I need the Township to submit the letters as per the Municipal Relocate process and then I can have a technicians assigned to complete the requested mark ups.

Attached is the process we have in place. It's a big document and there's a lot of information, so here's a quick breakdown of the steps:

- Letter 1 – Introduces Contractor, Consultant, Engineer (Acts as a letter of agency)
- Letter 2 through 4 - Design Stages (Mark Ups are requested)
- Letter 5 – Request for Cost Estimate
- HONI Letter 1 – Class C Estimate +/- 50% and design fees
- Letter 6 – Accepts initial costs and requests final design and costs
- HONI Letter 2 - Class A Estimate and Design +/- 10%
- Letter 7 – Accepts final costs and design and tells HONI to proceed with construction

Based on the previous emails you are past the beginning stages. If you could please have the Town send Letters 1 and then send either letters 2, 3 or 4 and request mark ups to SouthernFBCPlanning@hydroone.com. There is no need to mail everything as indicated in the document and there are examples of the letters included in the document so you have an idea of what we need.

Let me know if you have any questions or concerns when reviewing this.

Thanks,

Amy Eveland
Lines Customer Support Clerk
Distribution Work Management, WO1

Hydro One Networks Inc.
PO Box 20029
Woodstock, ON | N4S 8X8

Tel: *519.537.7172 x 2250*
Email: amy.eveland*@HydroOne.com*

www.HydroOne.com [hydroone.com]

From: Hank Xue [mailto:HXue@rvanderson.com]
Sent: Monday, July 06, 2020 1:24 PM
To: PETTIGREW Renee; SECONDARY LAND USE Department; CASEY Matthew; SOUTHERN FBC PLANNING
Cc: Andrew McGregor; Courtney Row; Jimmy Rathod; Oliver Olberg
Subject: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Networks

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Dear Sir/Madam,

On behalf of Region of Peel, R.V. Anderson Associates Limited is undertaking Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

As part of the scope, we are conducting a utility conflict assessment within the corridor. In order to achieve that, please provide us with a plan noting the location and description (including type, size, depths, clearances, offsets) of all existing and future proposed underground and above ground utilities. A plan drawing is enclosed showing you the area location, and digital files are available upon request.

Your co-operation in providing the information required is anticipated and appreciated. If you have any questions, do not hesitate to contact the undersigned.

Sincerely,

Hank Xue, P.Eng.
Design Engineer

P: (905) 685-5049 ext.4214
R.V. Anderson Associates Limited
43 Church Street, Suite 104, St. Catharines, ON L2R 7E1

www.rvanderson.com

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From: Faisal.Khan@HydroOne.com on behalf of hotosp@HydroOne.com
Sent: July 7, 2020 10:38 AM
To: Hank Xue
Cc: Andrew McGregor; Courtney Row; Jimmy Rathod; Oliver Olberg
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Telecom
Attachments: Parr Blvd - Caledon.pdf

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Good morning,

Hydro One Telecom does have infrastructure in the project work area. As a result we will be submitting mark-ups for this project.

Thanks,

Faisal Khan
Operations Services
Hydro One Telecom Inc.
65 Kelfield Street Rexdale,
Ontario M9W 5A3
Phone: **(416)-240-6805**
Fax: (416) 352-7769
hotosp@hydroone.com

From: Hank Xue <HXue@rvanderson.com>
Sent: Monday, July 6, 2020 1:30 PM
To: MITCHELL Ian <ian.mitchell@HydroOne.com>; KHAN Faisal <Faisal.Khan@HydroOne.com>; HOT OUTSIDE PLANT <hotosp@HydroOne.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Courtney Row <CRow@rvanderson.com>; Jimmy Rathod <JRathod@rvanderson.com>; Oliver Olberg <OOlberg@rvanderson.com>
Subject: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Telecom

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Dear Sir/Madam,

On behalf of Region of Peel, R.V. Anderson Associates Limited is undertaking Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

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and future proposed underground and above ground utilities. A plan drawing is enclosed showing you the area location, and digital files are available upon request.

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Sincerely,

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Hank Xue, P.Eng.
Design Engineer

P: (905) 685-5049 ext.4214
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From:	Philip, Johns <Johns.Philip@Telecon.ca>
Sent:	July 9, 2020 10:13 AM
To:	Courtney Row
Subject:	MU 86356 RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement
Attachments:	MU 86356.pdf; MU 86356.dgn; MU 86356.dwg

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi,

Please see the attached markup drawing and document for the location requested.

Thanks,

Johns Philip

Technicien CAO, Ingénierie - Centre du Canada
CAD Technician, Engineering – Central Canada

T 289-657-8085 Ext: 8085 **F:** 905-470-8956
7777 Weston Road, Vaughan (Ontario) L4L 0G9

From: Courtney Row <CRow@rvanderson.com>
Sent: Thursday, June 25, 2020 4:18 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

To address this, the study will consider:

- Best Industry Practices
- Climate Change Requirements
- Existing and Future Regulatory Requirements



Bell Canada Municipal Operations Centre - C/O TELECON DESIGN INC.
7777 Weston Rd,
Vaughan, Ontario L4L 0G9
Ph: (905) 569-2882

APPLICATION FOR PLANT LOCATION AND CONSENT

Applicant: R.V Anderson / Region of Peel
Mark Up #:86356
Applicant Ref #: N/A
Location: Hwy 50 from Mayfield Rd to Healey Rd
SwitchingCenter/NNX: BOLTON/857
Date Received From Applicant: 2020-07-08
Marked By: Johns Philip

APPLICATION FOR PLANT LOCATION AND REQUEST

☑ **Existing and/or proposed Bell Canada underground plant are indicated on the attached plan**

☐ **Our records show no existing and / or proposed underground plant within 2m of your proposed installation**

☐ **Conflict indicated**

☐ **Meets with our approval**

☑ **Not for PUCC approval - Mark up only**

☑ **If within 1 metre of Bell plant, hand dig**

REMARKS: Call for locates 1.800.400.2255. Tie-in measurements are a guideline only and physical verification may be required by applicant to determine the true separation between plants. Maintain clearance of 0.6m. Hand dig when crossing Bell plant.

PROCEDURES TO FOLLOW:

1. **Request locates prior to construction 1-800-400-2255**
2. **If exact location and depth are critical - test pits are recommended**
3. **Bell Canada plant location information is approximate**
4. **If the location of your proposed design changes, it will be necessary to re-apply**
5. **Permits expire six(6) months from approval date**

Signature: Date:
Johns Philip July 9, 2020
_____ _____

From: MOC (GT) <gt.moc@Telecon.ca>
Sent: July 9, 2020 5:29 PM
To: Courtney Row
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement/GT20-2151
Attachments: GT20-2151.doc

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi,

GT has no plant within 2m of proposed work-NO CONFLICT

Sincerely,

Mary Tina
Technicien CAO, Ingenierie-Centre du Canada
CAD Technician, Engineering-Central Canada

T 289-657-8072
7777 Weston Road, Woodbridge, ON L4L 0G9
telecon.ca

From: Courtney Row <CRow@rvanderson.com>
Sent: Thursday, June 25, 2020 4:18 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

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To address this, the study will consider:

GROUP TELECOM

C/O Telecon Design Inc
7777 Weston Road,
Vaughan, Ontario L4L 0G9
Ph: (905) 569 2882 Fax: (905) 460-8956
GT.MOC@telecon.ca

APPLICATION FOR PLANT LOCATION AND CONSENT

Applicant: Region of Peel
Mark Up #: GT20-2151
Applicant Ref #: Utility Record Request
Location: Highway 50 (Regional Road) from Mayfield Road to Healey Road
Date Received from Applicant: 06-25-2020
Marked By: Mary Tina

APPLICATION FOR PLANT LOCATION AND REQUEST

☐ **Existing and/or proposed Group Telecom underground plant are indicated on the attached plan**

☑ **Our records show no existing and / or proposed underground plant within 2m of your proposed installation**

☐ **Conflict indicated**

☑ **Meets with our approval**

☐ **Not for PUCC approval - Mark up only**

☐ **If within 1 meter of GT plant, hand dig**

REMARKS: Call for locates 1.800.400.2255. Maintain clearance of 0.6m. Hand dig when crossing Group Telecom plant. Call 877.865.6193 for locate if plant is in railway property.

PROCEDURES TO FOLLOW:

1. **Request locates prior to construction 1-800-400-2255**
2. **If exact location and depth are critical - test pits are recommended**
3. **Group Telecom plant location information is approximate**
4. **If the location of your proposed design changes, it will be necessary to re-apply**
5. **Permits expire six (6) months from approval date**

Signature: Mary Tina

Date: Jul 09, 2020

From: MOC (Bell) <bell.moc@Telecon.ca>
Sent: July 14, 2020 12:19 AM
To: Hank Xue; ahmed.saeed2@bell.ca; PUCC.circulations.GT@bell.ca
Cc: Andrew McGregor; Courtney Row; Jimmy Rathod; Oliver Olberg
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Bell Canada
Attachments: MU 86356 RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Follow Up Flag: Follow up
Flag Status: Flagged

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi,

This markup was already completed and sent back to you on 9th of July. Please find the attached for your reference.

Thank You,
Dalima Abraham
Permit Coordinator MOC, Engineering - Central Canada
Coordinateur des Permis MOC, Ingénierie - Centre du Canada
T: (289) 657-8439
7777 Weston Road
Vaughan, ON L4L 0G9

telecon
design · build · connect

www.telecon.ca

From: Hank Xue <HXue@rvanderson.com>
Sent: Monday, July 6, 2020 1:32 PM
To: ahmed.saeed2@bell.ca; PUCC.circulations.GT@bell.ca; MOC (Bell) <bell.moc@Telecon.ca>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>; Courtney Row <CRow@rvanderson.com>; Jimmy Rathod <JRathod@rvanderson.com>; Oliver Olberg <OOlberg@rvanderson.com>
Subject: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Bell Canada

Dear Sir/Madam,

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Sincerely,

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Hank Xue, P.Eng.
Design Engineer

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Region of Peel
working with you



Bell Canada Municipal Operations Centre - C/O TELECON DESIGN INC.
7777 Weston Rd,
Vaughan, Ontario L4L 0G9
Ph: (905) 569-2882

APPLICATION FOR PLANT LOCATION AND CONSENT

Applicant: R.V Anderson / Region of Peel
Mark Up #:86356
Applicant Ref #: N/A
Location: Hwy 50 from Mayfield Rd to Healey Rd
SwitchingCenter/NNX: BOLTON/857
Date Received From Applicant: 2020-07-08
Marked By: Johns Philip

APPLICATION FOR PLANT LOCATION AND REQUEST

☑ **Existing and/or proposed Bell Canada underground plant are indicated on the attached plan**

☐ **Our records show no existing and / or proposed underground plant within 2m of your proposed installation**

☐ **Conflict indicated**

☐ **Meets with our approval**

☑ **Not for PUCC approval - Mark up only**

☑ **If within 1 metre of Bell plant, hand dig**

REMARKS: Call for locates 1.800.400.2255. Tie-in measurements are a guideline only and physical verification may be required by applicant to determine the true separation between plants. Maintain clearance of 0.6m. Hand dig when crossing Bell plant.

PROCEDURES TO FOLLOW:

1. **Request locates prior to construction 1-800-400-2255**
2. **If exact location and depth are critical - test pits are recommended**
3. **Bell Canada plant location information is approximate**
4. **If the location of your proposed design changes, it will be necessary to re-apply**
5. **Permits expire six(6) months from approval date**

Signature: Date:
Johns Philip July 9, 2020
_____ _____

From: phil.arbeau@zayo.com on behalf of Utility Circulations <utility.circulations@zayo.com>
Sent: July 16, 2020 5:54 PM
To: Courtney Row
Subject: Re: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Follow Up Flag: Follow up
Flag Status: Flagged

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Good afternoon,

Zayo has no existing plant in the area indicated in your submission. No markup and no objection. Thank you.

Phil Arbeau
Utility Circulations

On Thu, 25 Jun 2020 at 16:18, Courtney Row <CRow@rvanderson.com> wrote:

> Dear Sir/Madam,
>
> On behalf of the Region of Peel, please find attached the Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.
>
> The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.
>
> To address this, the study will consider:
>
> - Best Industry Practices
> - Climate Change Requirements
> - Existing and Future Regulatory Requirements
>
> In developing recommendations, all reasonable alternatives will be considered to minimize impact on adjacent businesses and the surrounding environment.

From: Utility Circulations <utility.circulations+canned.response@zayo.com>
Sent: July 21, 2020 12:20 PM
To: Courtney Row
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Thank you for your submission, it has been placed in the queue and will be replied to within 15 business days. When possible please try to avoid submitting AutoCAD files.

Utility Circulations

From: Courtney Row <CRow@rvanderson.com>
Sent: July 21, 2020 2:33 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: FW: M202645_Hwy 50 and Healey Rd

Hello,
Please find attached the completed markup request from Roya Nejadtaghi with Telecon.

The email noted

***** Please use "REGEN" command for proper line style *****
Regards,

RVA IS GROWING!
Our NEW Halton and Halifax offices are now open.

Courtney Row
Field/GIS Technician (Trenchless)
P: (416) 497-8600 ext. 1372
C: (647) 285-9020

R.V. Anderson Associates Limited
2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8

rvanderson.com

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From: Nejadtaghi, Roya <Roya.Nejadtaghi@Telecon.ca>
Sent: Friday, July 17, 2020 5:58 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: GTAW.Markups@rci.rogers.com; Rogers.MOC <Rogers.MOC@telecon.ca>
Subject: M202645_Hwy 50 and Healey Rd

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi,
Please find attached completed markup request.
***** Please use "REGEN" command for proper line style *****
Thank you.
Regards,

Roya Nejadtaghi

CAD Technician, Engineering - Central Canada
Technicien CAO, Ingénierie - Centre du Canada

T 289-657-8020
7777 Weston Rd, Woodbridge (Ontario) L4L 0G9

telecon.ca

ROGERS

Rogers Communications
Outside Plant Engineering
3573 Wolfdale Road
Mississauga, ON L5C 3T6

Markup Response Form

Application Date	June 29, 2020	**Applicant:**	R.V. Anderson Associates Limited
Date Returned:	July 17, 2020		
Rogers Ref. No.:	M202645	**Applicant Job No.:**	N/A
Location:	Hwy 50 and Healey Rd		

Rogers Communications has reviewed your drawing(s) as requested and returns one marked-up copy.
Our comments follow below with an "X" indicating Rogers' stance on your proposed plan.

Comments:

☐	**No Conflict**	Rogers Communications currently does not possess existing plant in the area indicated on your attached plans.
☒	**No Conflict For your Reference**	Rogers Communications currently has existing plant as marked on your drawing. Our standard depth in this municipality is: **1m.** Please ensure you maintain clearances of 0.3m vertically and 0.6m horizontally.
☐	**EXTREME CAUTION**	Use vactruck and expose ducts, maintain minimum of 0.6m clearance.
☐	**CONFLICT**	Your proposed construction appears to encroach within existing Rogers Communications plant. Please relocate your proposed construction to allow adequate clearance of 0.3 m vertically and 1 m horizontally.
☒	**CAUTION**	Rogers Communications has aerial plant in this area, as it is indicated on the attached plans.
☒	**CAUTION**	Fiber Optic Cable is present in the area of your proposed construction.
☐	**Note**	Proposed Fiber Optic Cable in a joint use duct structure .
☒	**Note**	Plant currently under construction.
☒	**Note**	Please inform Rogers Communications well in advance of the proposed construction schedule in order to coordinate our plant relocation.
☒	**Note**	Locates are still required. Call for locates at 1-800-400-2255
☒	**Note**	Hand dig when crossing, or within 1.0m of existing Rogers plant.
☒	**Note**	Plant is to Approximation.

Roya Nejadtaghi
CAD Technician
289-657-8020

July 17, 2020
DATE

Region of Peel
working with you

From: Hank Xue <HXue@rvanderson.com>
Sent: November 30, 2020 11:51 AM
To: Spencer.Bureau@HydroOne.com
Cc: Chris.Marlin@HydroOne.com; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Caledon

Hi Spencer,

Thanks for your clarifications. We really appreciate your help.

Thanks,

Hank
Ext. 4214

From: Spencer.Bureau@HydroOne.com <Spencer.Bureau@HydroOne.com>
Sent: November 30, 2020 11:34 AM
To: Hank Xue <HXue@rvanderson.com>
Cc: Chris.Marlin@HydroOne.com; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Caledon

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Hi Hank,

To answer your questions below.

1- That is correct.
2- I can't confirm nor deny the fact that underground cables may be running parallel to highway 50. Typical routing of cable would suggest the chances are slim any cable is running parallel to the road. However there is always a possibility due to existing underground infrastructure that the cable routing may deviate from the norm. This will have to be confirmed with Locates at later stages of your project.
3- This ties in with my previous answer. For the most part you are correct but I can't 100% confirm cable routing.

Thanks,
Spencer

From: Hank Xue [mailto:HXue@rvanderson.com]
Sent: Friday, November 27, 2020 1:37 PM
To: BUREAU Spencer
Cc: MARLIN Chris; Andrew McGregor
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Caledon

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Hi Spencer,

Thanks for providing notes near the hydro poles where underground services exist to assist our EA study.

Since you are not able to provide actual markup of the locations that owned by Hydro One Caledon, could you please confirm the following?

1. Hydro One Caledon owns the Hydro poles and Hydro aerials on both West and East side of the road corridor that run parallel to the roadway.
2. No Hydro undergrounds runs parallel and/or cross the roadway.
3. All underground services noted are running from the hydro poles to the private properties.

Thank again for your time and help,

Hank
Ext. 4214

From: Spencer.Bureau@HydroOne.com <Spencer.Bureau@HydroOne.com>
Sent: November 27, 2020 12:21 PM
To: Hank Xue <HXue@rvanderson.com>
Cc: Chris.Marlin@HydroOne.com; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Caledon

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Hi Hank,

Thank you for your patience, I've attached a marked up copy of the Cad file. I've labeled every pole location where Primary or secondary cable are present. If you have any questions feel free to contact me.

Thanks again.
Spencer

From: Hank Xue [mailto:HXue@rvanderson.com]
Sent: Thursday, November 19, 2020 10:29 AM
To: BUREAU Spencer
Cc: MARLIN Chris; Andrew McGregor
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Caledon

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Hi Spencer,

Thanks for the update. Really appreciate your help.

Thanks,

Hank
Ext. 4214

Region of Peel
working with you

From: Spencer.Bureau@HydroOne.com <Spencer.Bureau@HydroOne.com>
Sent: November 19, 2020 10:24 AM
To: Hank Xue <HXue@rvanderson.com>
Cc: Chris.Marlin@HydroOne.com; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Caledon

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Hi Hank,

I have been away on vacation for the last few weeks. I had been picking away at marking up the underground locations on your cad drawing. I will only be able to provide which poles have primary or secondary services are present.

I am looking to send them back to you by end of next week.

Thanks,
Spencer

From: Hank Xue [mailto:HXue@rvanderson.com]
Sent: Thursday, November 19, 2020 9:42 AM
To: BUREAU Spencer
Cc: MARLIN Chris; Andrew McGregor
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Caledon

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Good Morning Spencer,

Underground locates is not part the scope of work for EA study. Could you please help and provide utility markup for primary and secondary underground services within the study area?

Thanks,

Hank
Ext. 4214

From: Hank Xue
Sent: November 2, 2020 9:32 AM
To: Spencer.Bureau@HydroOne.com
Cc: Chris.Marlin@HydroOne.com; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Caledon

Good Morning Spencer,

We are at the critical planning stage and would really need the markup of your primary and secondary underground services along this section of the road. Could you please help?

Thanks,

Hank
Ext. 4214

From: Hank Xue
Sent: September 9, 2020 1:14 PM
To: Spencer.Bureau@HydroOne.com
Cc: Chris.Marlin@HydroOne.com; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Caledon

Hi Spencer,

Thanks for your response to our request and confirming there are hydro plants within our study area.

We are not looking for the exact locations of hydro underground services. Knowing the rough locations of Hydro underground services are critical for us to develop preliminary design alternatives for the EA study, subsequently identify utility conflicts.

Could you please take another look to see if you could help and provide markup for primary and secondary underground services?

Thanks,

Hank
Ext. 4214

From: Spencer.Bureau@HydroOne.com <Spencer.Bureau@HydroOne.com>
Sent: September 9, 2020 11:46 AM
To: Hank Xue <HXue@rvanderson.com>
Cc: Chris.Marlin@HydroOne.com
Subject: 194615 Region of Peel Hwy 50 Drainage Improvements EA Utility Circulation - Hydro One Caledon

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Hi Hank,

I was able to review the provided CAD drawing. I am able to confirm that the H1 poles shown in the drawing are in the proper location. We have not done much if any work in the area over the last year. I don't anticipate any major changes or relocations within the scope in the near future.

Primary and secondary underground services do exist along this section of the road. I am unable to provide any detailed location of the cables. Underground locates will be required to determine the routing of underground plant.

Let me know if you have any questions or concerns.

Thanks,
Spencer

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From: FU Rebecca <Rebecca.Fu@HydroOne.com> on behalf of HOT OUTSIDE PLANT <HOTOutsidePlant@HydroOne.com>
Sent: March 11, 2022 8:19 AM
To: Courtney Row
Cc: Banuri, Syeda; Andrew McGregor
Subject: RE: Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2
Attachments: 61 Simpson Rd - Parr Blvd - Caledon.pdf

Categories: Filed by Newforma

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Good morning Courtney,

Please note that Hydro One Telecom only has underground infrasturcture at the corner of Parr Blvd and Highway 50 in the project area. Please see attached.

Thank you.

Rebecca Fu
Operations Services
Hydro One Telecom Inc.
65 Kelfield Street, Rexdale
Ontario M9W 5A3
hotosp@hydroone.com
www.HydroOneTelecom.com

From: Courtney Row <CRow@rvanderson.com>
Sent: Thursday, March 10, 2022 6:29 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2

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Warm Greetings,

Please find attached the Notice of Public Information Centre (PIC) 2 for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield Road to Healey Road.

From: Andrew McGregor
Sent: November 1, 2022 8:14 PM
To: Courtney Row
Subject: Fwd: PUCC from Rogers - RP22-1380 - Hwy 50 & McEwan Dr., Bolton

---

From: Andrew McGregor <AMcGregor@rvanderson.com>
Sent: Wednesday, October 26, 2022, 3:29 p.m.
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: FW: PUCC from Rogers - RP22-1380 - Hwy 50 & McEwan Dr., Bolton

Hi Syeda,

Rogers has addressed our previous comment. No additional comment.

Thanks,

Andrew McGregor, MCIP, RPP
SENIOR PLANNER, EA & APPROVALS
t 905 685 5049 ext. 4211 | m 905 964 4056
a 43 Church Street, Suite 104, St. Catharines, ON L2R 7E1
rvanderson.com

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From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: Wednesday, October 26, 2022 11:50:36 AM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Subject: Fwd: PUCC from Rogers - RP22-1380 - Hwy 50 & McEwan Dr., Bolton

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Hi Andrew,
Following up on the request. Please, let me know if there are any comments.
Thanks.

Syeda

Get Outlook for iOS

From: Nezami, Sona <sona.nezami@peelregion.ca>
Sent: Wednesday, October 26, 2022 10:26 AM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Subject: FW: PUCC from Rogers - RP22-1380 - Hwy 50 & McEwan Dr., Bolton

Hi Syeda,
Can you please follow up with RVA regarding their review of this?

Thanks,

Sona Nezami, MASc, P.Eng.
Project Manager
Roads - Design & Construction
Transportation Division
Department of Public Works
sona.nezami@peelregion.ca



From: Nezami, Sona
Sent: Friday, October 21, 2022 2:01 PM
To: Banuri, Syeda <Syeda.Banuri@peelregion.ca>
Cc: ZZG-PUCC Caledon Applications <pucccaledonapplications@peelregion.ca>
Subject: FW: PUCC from Rogers - RP22-1380 - Hwy 50 & McEwan Dr., Bolton

Hi Syeda,
Can you please see if they have corrected for comments RVA provided? Or you can submit to RVA for a review.

Thanks,

Sona Nezami, MASc, P.Eng.
Project Manager
Roads - Design & Construction
Transportation Division
Department of Public Works
sona.nezami@peelregion.ca



From: ZZG-PUCC Caledon Applications <pucccaledonapplications@peelregion.ca>
Sent: Friday, October 21, 2022 9:57 AM
To: Nezami, Sona <sona.nezami@peelregion.ca>; Caughey, Rebecca <rebecca.caughey@peelregion.ca>
Subject: PUCC from Rogers - RP22-1380 - Hwy 50 & McEwan Dr., Bolton

Good day

We received the attached PUCC from Rogers

The CAD Team have reviewed and approved the clearances from the existing infrastructure but have asked for further review for the following:

- 18-4860 – Sona Nezami to review and comment.
- RR **#50 HIGHWAY 50**. RD&C – Sona Nezami to review for any comment and concerns.
- RR **#50 HIGHWAY 50**. Rebecca Caughey to review for any comment and concerns for Traffic.

Please review to ensure no conflicts with your respective comment above.

Kindly provide your respective response identifying any conflicts **by October 28 please**

Thank you,

Susan De Jesus
PUCC Coordinator (Brampton and Caledon)
Engineering Technical Services
Region of Peel

General PUCC Mailbox PUCC.Applications@peelregion.ca
Brampton PUCC Mailbox puccbramptonapplications@peelregion.ca
Caledon PUCC Mailbox pucccaledonapplications@peelregion.ca



Region of Peel
working with you

From: Nezami, Sona <sona.nezami@peelregion.ca>
Sent: September 23, 2022 1:03 PM
To: Colin Germaine; ZZG-PUCC Caledon Applications; #RCS_OPE York_York Circulations
Subject: RE: MC Submission_RP22-1380_Hwy 50 & McEwan Dr., Bolton

Hi Colin,
I have no problem with pits on grass, just not on sidewalk (hard surfaces). I am waiting for a Consultant review of this PUCC. Once they get back to me I will give approval.

Thanks a lot,

Sona Nezami, MASc, P.Eng.
Project Manager
Roads - Design & Construction
Transportation Division
Department of Public Works
sona.nezami@peelregion.ca

From: Colin Germaine <Colin.Germaine@rci.rogers.com>
Sent: Thursday, September 22, 2022 1:29 PM
To: Nezami, Sona <sona.nezami@peelregion.ca>; ZZG-PUCC Caledon Applications <pucccaledonapplications@peelregion.ca>; #RCS_OPE York_York Circulations <YorkCirculations@rci.rogers.com>
Subject: RE: MC Submission_RP22-1380_Hwy 50 & McEwan Dr., Bolton

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Hi Sona,
No problem, added the most likely locations for pits on this drawing as well as the second drawing I have with you currently (RP22-1380 and RP22-1379). Unfortunately I don't see a way for us to avoid the grass, but our construction team/contractor will of course topsoil and sod any works areas that are affected after we are done, and if not please inform me and they can be sent back out to restore any areas missed.
Thanks,

Colin Germaine
System Planner, Outside Planning & Engineering - York
Rogers Communications Canada Inc
244 Newkirk Road, Richmond Hill, ON, L4C 3S5
e colin.germaine@rci.rogers.com
m 647-926-7636

From: Colin Germaine <Colin.Germaine@rci.rogers.com>
Sent: September 22, 2022 1:29 PM
To: Nezami, Sona; ZZG-PUCC Caledon Applications; #RCS_OPE York_York Circulations
Subject: RE: MC Submission_RP22-1380_Hwy 50 & McEwan Dr., Bolton
Attachments: R222551 - P1 McEwan Buried Permit - RP22-1380.pdf; R222551 - P2 McEwan Buried Permit - RP22-1379.dwg; R222551 - P2 McEwan Buried Permit - RP22-1379.pdf; R222551 - P1 McEwan Buried Permit - RP22-1380.dwg

Follow Up Flag: Follow up
Flag Status: Flagged

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Hi Sona,
No problem, added the most likely locations for pits on this drawing as well as the second drawing I have with you currently (RP22-1380 and RP22-1379). Unfortunately I don't see a way for us to avoid the grass, but our construction team/contractor will of course topsoil and sod any works areas that are affected after we are done, and if not please inform me and they can be sent back out to restore any areas missed.
Thanks,

Colin Germaine
System Planner, Outside Planning & Engineering - York
Rogers Communications Canada Inc
244 Newkirk Road, Richmond Hill, ON, L4C 3S5
e colin.germaine@rci.rogers.com
m 647-926-7636

ROGERS

From: Nezami, Sona <sona.nezami@peelregion.ca>
Sent: September 22, 2022 1:17 PM
To: Colin Germaine <Colin.Germaine@rci.rogers.com>; ZZG-PUCC Caledon Applications <pucccaledonapplications@peelregion.ca>; #RCS_OPE York_York Circulations <YorkCirculations@rci.rogers.com>
Subject: RE: MC Submission_RP22-1380_Hwy 50 & McEwan Dr., Bolton

Hi Colin,
Can you please show the location of pits? Can we try to disturb grass areas for pits and not sidewalk, etc. as much as possible?

Thanks,

Sona Nezami, MASc, P.Eng.
Project Manager
Roads - Design & Construction
Transportation Division

Department of Public Works
sona.nezami@peelregion.ca

From: Colin Germaine <Colin.Germaine@rci.rogers.com>
Sent: Thursday, September 22, 2022 1:12 PM
To: ZZG-PUCC Caledon Applications <pucccaledonapplications@peelregion.ca>; #RCS_OPE York_York Circulations <YorkCirculations@rci.rogers.com>
Cc: Nezami, Sona <sona.nezami@peelregion.ca>
Subject: RE: MC Submission_RP22-1380_Hwy 50 & McEwan Dr., Bolton

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Hello,
For the portion crossing Highway 50 we will be using the trenchless method of directional bore. Any trenching will be in the boulevard (if we require pits for the bore across). Please let me know if you have any more questions.
Thanks,

Colin Germaine
System Planner, Outside Planning & Engineering - York
Rogers Communications Canada Inc
244 Newkirk Road, Richmond Hill, ON, L4C 3S5
e colin.germaine@rci.rogers.com
m 647-926-7636

From: ZZG-PUCC Caledon Applications <pucccaledonapplications@peelregion.ca>
Sent: September 22, 2022 12:31 PM
To: #RCS_OPE York_York Circulations <YorkCirculations@rci.rogers.com>; Colin Germaine <Colin.Germaine@rci.rogers.com>
Cc: Nezami, Sona <sona.nezami@peelregion.ca>
Subject: RE: MC Submission_RP22-1380_Hwy 50 & McEwan Dr., Bolton

Good day Colin

Please see question below from Region's team member Sona Nezami:

- Can you please ask them if this work (crossing hwy 50) will be completed by trenchless/directional boring method?

Thank you,

Susan De Jesus
PUCC Coordinator (Brampton and Caledon)

Engineering Technical Services
Region of Peel

General PUCC Mailbox PUCC.Applications@peelregion.ca
Brampton PUCC Mailbox puccbramptonapplications@peelregion.ca
Caledon PUCC Mailbox pucccaledonapplications@peelregion.ca



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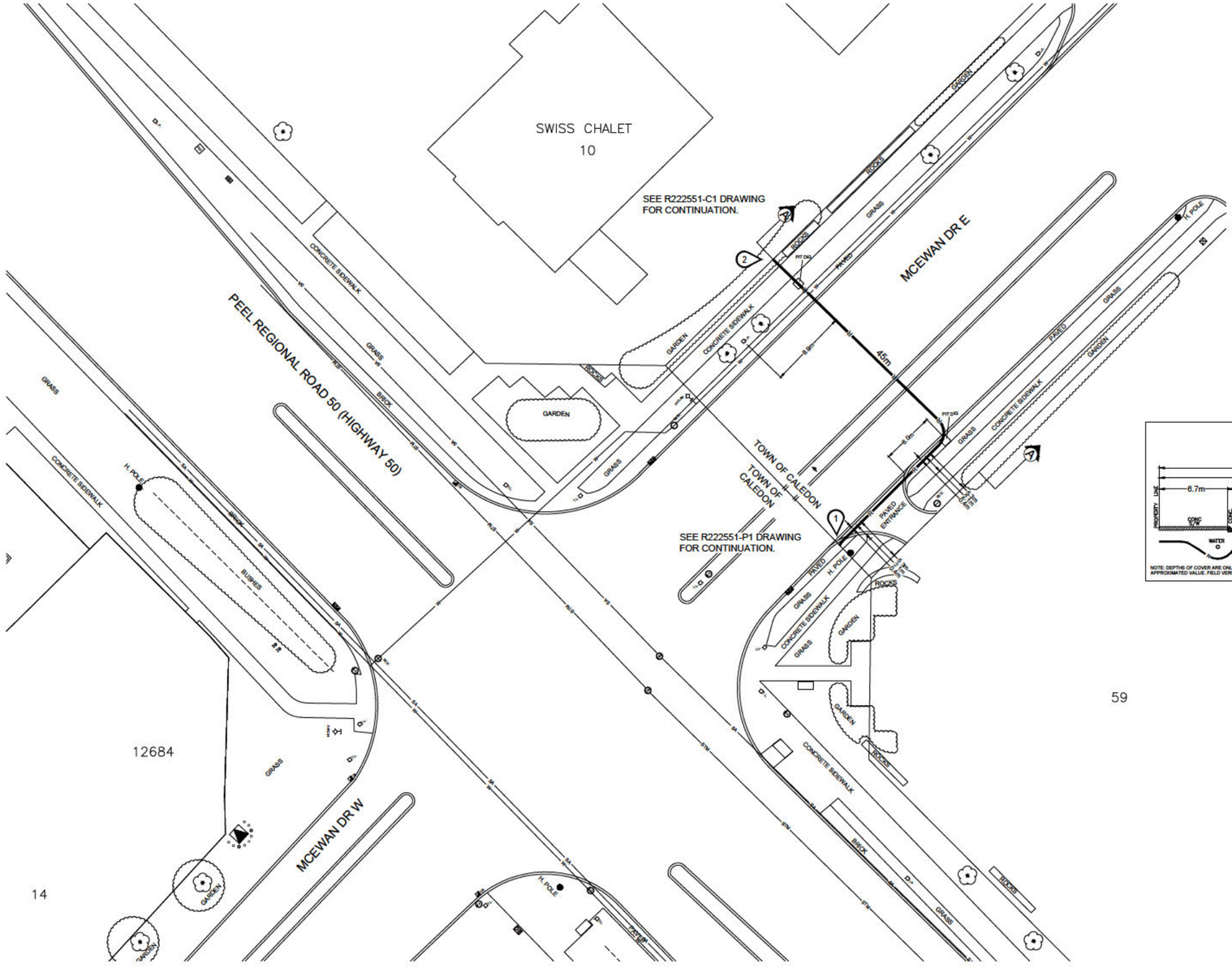
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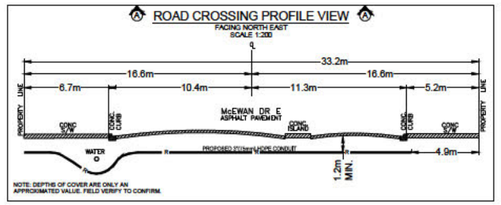
PLAN VIEW

1 : 250



ROAD CROSSING PROFILE VIEW

FACING NORTH EAST
SCALE 1:200



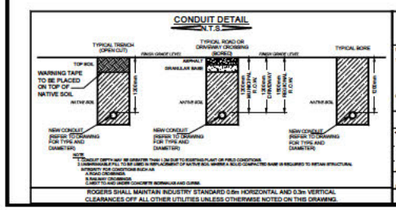
NOTE: DEPTHS OF COVER ARE ONLY AN APPROXIMATED VALUE. FIELD VERIFY TO CONFIRM.

SCOPE OF WORK	ROUTE TOTAL
1.) NEW TRENCH/BORE	45m
2.) NEW 3"(75mm) HDPE CONDUIT	45m

CONSTRUCTION NOTES

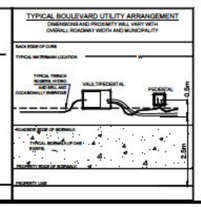
1. TRENCH/BORE 45m AND INSTALL NEW 3"(75mm) HDPE CONDUIT.
2. SEE R222551-P1 FOR CONTINUATION.
3. SEE R222551-C1 FOR CONTINUATION.

CONDUIT DETAIL



TYPICAL BOULEVARD UTILITY ARRANGEMENT

DIMENSIONS AND PROXIMITY WILL VARY WITH OVERALL ROADWAY WIDTH AND MUNICIPALITY



LEGEND

EX. FIBRE LOOP BACK	PROPOSED FIBRE LOOP BACK	EX. ALLSTREAM	EX. ROGERS PEDESTAL	PROPOSED ROGERS PEDESTAL	BELL PEDESTAL	POLE / H. POLE H1234
EX. ROGERS FIBRE	PROPOSED ROGERS FIBRE	EX. TELECOM	EX. ROGERS PEDESTAL W/ VAULT	H. ROGERS PEDESTAL W/ VAULT	BELL MANHOLE	LIGHT POLE
EX. CONDUIT	PROPOSED CONDUIT	EX. HYDRO	EX. ROGERS VAULT	PROPOSED ROGERS VAULT	TRANSFORMER	MAIL BOX
EX. ROGERS TRENCH	PROPOSED ROGERS TRENCH	EX. BELL	EX. ROGERS MANHOLE	PROPOSED ROGERS MANHOLE	TRAFFIC LIGHT PED	STONE PILLAR
EX. .875 CABLE	BURIED DROP	EX. GAS	EX. F.O.S.C.	PROPOSED F.O.S.C.	WATER VALVE/V.O.	CATCH BASIN
EX. .750 CABLE	JOINT USE TRENCH	EX. SANITARY	EX. CABLE SPLICE	PROPOSED CABLE SPLICE	HYDRANT	TREE
EX. .625 CABLE	STREET LINE	EX. STORM	EX. ANCHOR	PROPOSED CABLE COIL	MANHOLE	STREET SIGN
EX. .500 CABLE	FENCE	EX. WATERMAIN	EX. SIDEWALK ANCHOR	PROPOSED DIP LOCATION	GAS VALVE	GROUND
EX. TX15 CABLE	PROPERTY LINE				STREET LIGHT SUPPLY PED	WOODEN SURVEY STAKE
EX. .412 CABLE	CENTRE LINE					

KEY MAP (N.T.S)



TOWN OF CALEDON

GENERAL NOTES

THE LOCATION OF POLE L NES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND ABOVE GROUND UTILITIES AND STRUCTURES ARE NOT NECESSAR LY SHOWN AND WHERE SHOWN, THE ACCURACY OF SUCH UT LIT ES AND STRUCTURES ARE NOT GUARANTEED.

THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL SUCH UTILITIES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

THE STRUCTURES SHOWN ON THIS PLAN ARE NOT TO SCALE.

WORK TO DIMENSIONS AND DO NOT SCALE DRAWINGS.
ALL DIMENSIONS MUST BE VERIFIED ON SITE BEFORE COMMENCING WORK.

NO WORK IS TO PROCEED WITHOUT NOTIFYING THE CONSTRUCTION DEPARTMENT 48 HOURS PRIOR TO CONSTRUCTION.

ALL REVISIONS MUST BE AUTHORIZED BY THE ENGINEERING DEPARTMENT.

ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ROGERS COMMUNICATIONS NC. SPECIFICATIONS, LOCAL CODES AND DRAWINGS.

TAG ALL EXPOSED CABLE.

ROGERS COMMUNICATION INC. CONSTRUCTION DEPARTMENT MUST NOTIFY MUNICIPALITY 48 HOURS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL OBTAIN THE NECESSARY ROAD OCCUPANCY PERMITS F REQUIRED.

CONTACT ALL UTILITIES FOR LOCATES PRIOR TO CONSTRUCTION.

TORPEDO OR DIRECTIONAL BORE UNDER ALL DRIVEWAYS, AND S DEWALKS. MAINTA N 1.0m CLEARANCE FROM ALL UTILITIES AND MUNIC PAL SERVICES.

HAND TRENCH WITHIN 1.0m OF ALL UTILITIES INCLUDING STREETLIGHTS, HYDRANTS, MANHOLES, AND PEDESTALS.

WHEN HAND TRENCH NG, MAINTA N 0.6m HORIZONTAL AND 0.3m VERTICAL CLEARANCES FROM ALL OTHER UTILITIES AND MUNICIPAL SERVICES.

MICRO TUNNEL OR BORE ALL CITY OWNED TREES WHEN WITHIN DRIP L NE. MAINTA N A MINIMUM DEPTH OF 1.6m.

ALL RESTORATION TO CONFORM TO MUNIC PAL STANDARDS.

ROGERS FIBRE OPTIC CABLE TECHNICIAN MUST BE PRESENT TO SUPERVISE THE PULLING AND TERMINATING OF FIBRE OPTIC CABLE.

DO NOT CUT FIBRE OPTIC CABLE UNLESS SPECIFICALLY INDICATED.

RECORD OF INSPECTION

AS CONSTRUCTED

☐ AERIAL INSTALLATION ☒ BURIED INSTALLATION

WITH CHANGES SHOWN ON THIS DRAWING

SUPPORT STRUCTURE OWNER	PERMIT #	DATE
	PRINT NAME	
	POSITION	
	SIGNATURE	

☐ THIS IS TO CERTIFY THAT THE CONSTRUCTION AS RECORDED IN THIS DRAWING IS CONSISTENT WITH THE APPROVED PLAN, STANDARD DESIGNS, OR WORK INSTRUCTION AND THAT APPROVED EQUIPMENT HAS BEEN USED.

QC INSPECTOR APPROVED BY:

NAME (PRINTED) DATE

NO.	DATE	REVISION	BY
0	AUG 22/22	SHEET ESTABLISHED	MJM/LD

ROGERS
234 NEWKIRK ROAD
RICHMOND HILL, ON
L4C 3G5

ROGERS TECHNICAL CONTACT
COLIN GERMAINE
(647) 926--7636
Colin.Germaine@rci.rogers.com

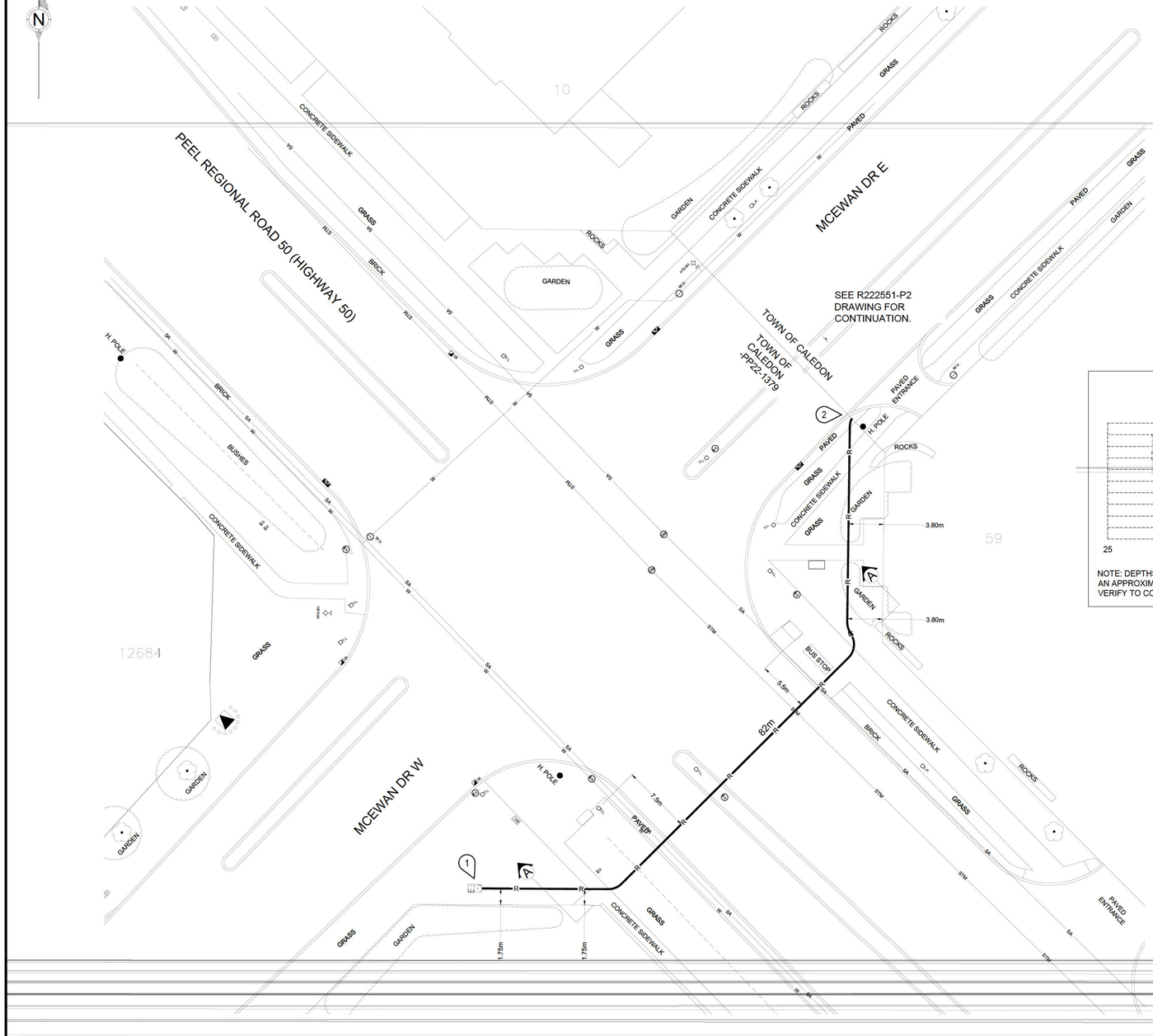
TOWN OF CALEDON

DESCRIPTION:
10 McEWAN DR E
McEWAN DR E & HIGHWAY 50

PLOT DATE: AUG 23/22	PROJECT #: R222551
SCALE: 1:250	DRAWING #: R222551--P2
DESIGNED BY: COLIN GERMAINE	GRID MAP #:
APPROVED BY: COLIN GERMAINE	DESIGN PROFILE
CSP / LPS (FTP)	SHT #
RTN SEGMENT #/SERVICE AREA # (FTTC)	POWER SUPPLY #
ROGERS POLE PERMIT ID NO.	ROGERS 3RD PARTY PERMIT ID NO.
ROGERS REGIONAL PERMIT ID NO.	ROGERS MTO PERMIT ID NO.
ROGERS MUNICIPAL PERMIT ID NO. RP222--1379/	ROGERS RAL PERMIT ID NO.
ISSUE #	SHEET # 1 OF 1

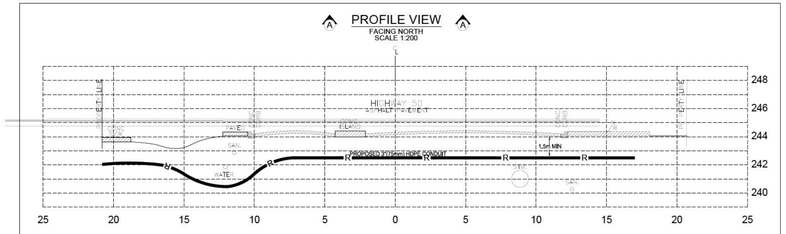
PLAN VIEW

1 : 250



PROFILE VIEW

FACING NORTH
SCALE 1:200



NOTE: DEPTHS OF COVER ARE ONLY AN APPROXIMATED VALUE. FIELD VERIFY TO CONFIRM.

MAINTAIN 1.5m BELOW CENTRE LINE OF PAVEMENT, 1.0m BELOW DITCH AND 1.0m BELOW BOULEVARD.

SCOPE OF WORK

		ROUTE TOTAL
1.)	NEW TRENCH/BORE	82m
2.)	NEW 3"(75mm) HDPE CONDUIT	82m

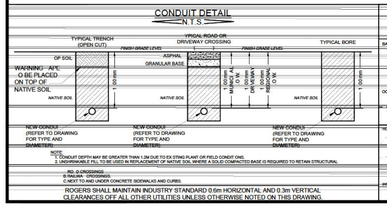
CONSTRUCTION NOTES

1 2 TRENCH/BORE 82m AND INSTALL NEW 3"(75mm) HDPE CONDUIT.

1 EXISTING SPE-2048DD PEDESTAL AND VAULT LOCATION.

CONDUIT DETAIL

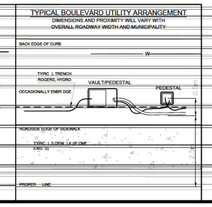
N.T.S.



ROGERS SHALL MAINTAIN INDUSTRY STANDARD 0.6m HORIZONTAL AND 0.3m VERTICAL CLEARANCES OFF ALL OTHER UTILITIES UNLESS OTHERWISE NOTED ON THIS DRAWING.

TYPICAL BOULEVARD UTILITY ARRANGEMENT

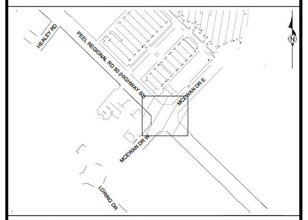
DIMENSIONS AND PROPERTY WILL VARY WITH OVERALL ROADWAY WIDTH AND MUNICIPALITY



LEGEND

EX. FIBRE LOOP BACK	PROPOSED FIBRE LOOP BACK	EX. ALLSTREAM	EX. ROGERS PEDESTAL	PROPOSED ROGERS PEDESTAL	BELL PEDESTAL	POLE	H. POLE H1234
EX. ROGERS FIBRE	PROPOSED ROGERS FIBRE	EX. TELECOM	EX. ROGERS PEDESTAL W/ VAULT	P. ROGERS PEDESTAL W/ VAULT	BELL MANHOLE	LIGHT POLE	L.P.
EX. CONDUIT	PROPOSED CONDUIT	EX. HYDRO	EX. ROGERS VAULT	PROPOSED ROGERS VAULT	TRANSFORMER	MAIL BOX	MB
EX. ROGERS TRENCH	PROPOSED ROGERS TRENCH	EX. BELL	EX. ROGERS MANHOLE	PROPOSED ROGERS MANHOLE	TRAFFIC LIGHT PED	STONE PILLAR	
EX. .675 CABLE	BURIED DROP	EX. GAS	EX. F.O.S.C.	PROPOSED F.O.S.C.	WATER VALVE/V.G.	CATCH BASIN	
EX. .750 CABLE	JOINT USE TRENCH	EX. SANITARY	EX. CABLE SPLICE	PROPOSED CABLE SPLICE	HYDRANT	TREE	
EX. .625 CABLE	STREET LINE	EX. STORM	EX. ANCHOR	PROPOSED CABLE COIL	MANHOLE	STREET SIGN	
EX. .500 CABLE	FENCE	EX. WATERMAIN	EX. SIDEWALK ANCHOR	PROPOSED DIP LOCATION	GAS VALVE	GROUND	
EX. TX15 CABLE	PROPERTY LINE				STREET LIGHT SUPPLY PED	WOODEN SURVEY STAKE	
EX. .412 CABLE	CENTRE LINE						

KEY MAP (N.T.S.)



T W N F A L E N

GENERAL NOTES

THE LOCATION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND ABOVE GROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN AND WHERE SHOWN, THE ACCURACY OF SUCH UTILITIES AND STRUCTURES ARE NOT GUARANTEED.

THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL SUCH UTILITIES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

THE STRUCTURES SHOWN ON THIS PLAN ARE NOT TO SCALE.

WORK TO DIMENSIONS AND DO NOT SCALE DRAWINGS.
ALL DIMENSIONS MUST BE VERIFIED ON SITE BEFORE COMMENCING WORK.

NO WORK IS TO PROCEED WITHOUT NOTIFYING THE CONSTRUCTION DEPARTMENT 48 HOURS PRIOR TO CONSTRUCTION.

ALL REVISIONS MUST BE AUTHORIZED BY THE ENGINEERING DEPARTMENT.

ALL WORK TO BE PERFORMED IN ACCORDANCE WITH ROGERS COMMUNICATIONS INC. SPECIFICATIONS, LOCAL CODES AND DRAWINGS.

TAG ALL EXPOSED CABLE.

ROGERS COMMUNICATION INC. CONSTRUCTION DEPARTMENT MUST NOTIFY MUNICIPALITY 48 HOURS PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL OBTAIN THE NECESSARY ROAD OCCUPANCY PERMITS IF REQUIRED.

CONTACT ALL UTILITIES FOR LOCATES PRIOR TO CONSTRUCTION.

TORPEDO OR DIRECTIONAL BORE UNDER ALL DRIVEWAYS, AND SIDEWALKS. MAINTAIN 1.0m CLEARANCE FROM ALL UTILITIES AND MUNICIPAL SERVICES.

HAND TRENCH WITHIN 1.0m OF ALL UTILITIES INCLUDING STREETLIGHTS, HYDRANTS, MANHOLES, AND PEDESTALS.

WHEN HAND TRENCHING, MAINTAIN 0.6m HORIZONTAL AND 0.3m VERTICAL CLEARANCES FROM ALL OTHER UTILITIES AND MUNICIPAL SERVICES.

MICRO TUNNEL OR BORE ALL CITY OWNED TREES WHEN WITHIN DRIP LINE. MAINTAIN A MINIMUM DEPTH OF 1.6m.

ALL RESTORATION TO CONFORM TO MUNICIPAL STANDARDS.

ROGERS FIBRE OPTIC CABLE TECHNICIAN MUST BE PRESENT TO SUPERVISE THE PULLING AND TERMINATING OF FIBRE OPTIC CABLE.

DO NOT CUT FIBRE OPTIC CABLE UNLESS SPECIFICALLY INDICATED.

RECORD OF INSPECTION

AS CONSTRUCTED

☐ AERIAL INSTALLATION ☒ BURIED INSTALLATION

WITH CHANGES SHOWN ON THIS DRAWING

SUPPORT STRUCTURE OWNER	PERMIT #	DATE
	PRINT NAME	
	POSITION	
	SIGNATURE	

☐ THIS IS TO CERTIFY THAT THE CONSTRUCTION AS RECORDED IN THIS DRAWING IS CONSISTENT WITH THE APPROVED PLAN, STANDARD DESIGNS, OR WORK INSTRUCTION AND THAT APPROVED EQUIPMENT HAS BEEN USED.

QC INSPECTOR APPROVED BY:

NAME (PRINTED) DATE:

NO.	DATE	REVISION	BY
0	AUG 22/22	SHEET ESTABLISHED	NUBUILD

ROGERS

234 NEWK RK ROAD
RICHMOND H LL, ON
L4C 3S5

E T E H N I C A L N T A T
LIN E MAINE
47 –7
N T F I C A T I O N

T W N F A L E N

E T A T E N

T MEWAN N E
M E W A N H I H W A Y

L T A T E	S H E E T #
A L E	A M E #
E T N E Y	T M A #
A T E LIN E MAINE	E T N FILE
# / L # F T F	W T #
T N E V E N T # / E M E A E # F T T	W E U L Y #
E U E E M T I N	E U E A T Y E M T I N
E E T N A L E M T I N	E U E W T E M T I N
E M N T A L E M T I N	E U A L E M T I N
N T E #	H E E T #

From: Bennett, Audrey (MMA) <Audrey.Bennett@ontario.ca>
Sent: March 10, 2022 6:30 PM
To: Courtney Row
Subject: Automatic reply: Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Effective February 20, 2017 Laurie Miller is the new director of the Provincial Planning Policy Branch (PPPB). Laurie may be reached at laurie.miller@ontario.ca or 416-585-6072.

For the week of February 13, Anna MacDonald is the acting director. Anna may be reached at anna.macdonald@ontario.ca or 416-585-6028.

For immediate assistance please contact Raquel Batres at Raquel.batres2@ontario.ca or 416-585-6043.

Thank you

From:	Courtney Row
Sent:	July 29, 2022 6:16 PM
To:	Courtney Row
Cc:	Banuri, Syeda; Andrew McGregor
Subject:	RR Highway 50 - Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements - Draft Project File Report

Dear Recipient,

You are receiving this email in response to your interest in the Region of Peel **Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements.**

We are nearing the completion of the **Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements** to address a wide range of stormwater management and active transportation options for the **Highway 50 corridor from Mayfield Road to Healey Road**, in the Town of Caledon. The project alternatives were evaluated to provide viable solutions to satisfy both regulatory and climate change requirements.

We received comments earlier this year for the recommendations and alternatives considered. The project team has updated the recommendations and documented the study process in the ***draft* Project File Report (PFR**). All technical reports and plans are included in Appendices. We are now seeking your feedback on the *draft* PFR. T

The *draft* PFR and Appendices contain containing **Final Drafts** of the Technical Reports including the Natural Heritage, Cultural Heritage and Archaeological Reports for your review and comments.

Please note that due to the size of the attachments, the information is separately shared via NewForma platform. You will be receiving a subsequent email from "Newforma" which will provide you access to the files. Please, let myself crow@rvanderson.com know if you if you have any questions or challenges accessing the content. You will receive an e-mail with instructions of how to create an account and sign in. Please check your inboxes for another email following this from "Newforma". The Newforma email requests each user set a password in order to access the materials on their info exchange website.

We kindly request you take a look at the relevant information and provide your input on the *draft* PFR by no later than **August 26th, 2022.** After the review period the PFR will be finalized and subsequently filed to the Public Record for a 30 - day review period.

If you have any comments, questions, or require any additional information, please do not hesitate to the Project Managers:

Syeda Banuri syeda.banuri@peelregion.ca and Andrew McGregor AMcGregor@rvanderson.com

Thank you for your time and efforts.

Happy Long Weekend!

Warm regards,

arva

Courtney Row, CAN-CISEC (she / her)
FIELD / GIS TECHNICIAN

t 416 497 8600 ext. <1372> | m <647 285 9020>
a 2001 Sheppard Avenue East, Suite 300, Toronto, ON M2J 4Z8

Notification about File Transfer **Highway50 PFR Consultation**

A transfer (Shared Folder) has arrived on the R.V. Anderson Associates Limited Info Exchange Site.

Remarks

Dear Recipient,

You are receiving this email in response to your interest in the Region of Peel **Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements.**

We are nearing the completion of the **Schedule 'B' Environmental Assessment (EA) and Preliminary Design for Drainage Improvements** to address a wide range of stormwater management and active transportation options for the **Highway 50 corridor from Mayfield Road to Healey Road**, in the Town of Caledon. The project alternatives were evaluated to provide viable solutions to satisfy both regulatory and climate change requirements.

We received comments earlier this year for the recommendations and alternatives considered. The project team has updated the recommendations and documented the study process in the ***draft* Project File Report (PFR)**. All technical reports and plans are included in Appendices. We are now seeking your feedback on the *draft* PFR. T

The *draft* PFR and Appendices contain containing **Final Drafts** of the Technical Reports including the Natural Heritage, Cultural Heritage and Archaeological Reports for your review and comments.

Please note that due to the size of the attachments, the information is separately shared via NewForma platform. You will be receiving a subsequent email from "Newforma" which will provide you access to the files. Please, let myself crow@rvanderson.com know if you if you have any questions or challenges accessing the content. You will receive an e-mail with instructions of how to create an account and sign in. Please check your inboxes for another email following this from "Newforma". The Newforma email requests each user set a password in order to access the materials on their info exchange website.

We kindly request you take a look at the relevant information and provide your input on the *draft* PFR by no later than **August 26th, 2022.** After the review period the PFR will be finalized and subsequently filed to the Public Record for a 30 - day review period.

If you have any comments, questions, or require any additional information, please do not hesitate to the Project Managers:

Syeda Banuri syeda.banuri@peelregion.ca and Andrew McGregor AMcGregor@rvanderson.com

Thank you for your time and efforts.

Happy Long Weekend!

Warm regards,

Courtney Row, CAN-CISEC (she / her)
FIELD / GIS TECHNICIAN

t 416 497 8600 ext. <1372> | m <647 285 9020>
a 2001 Sheppard Avenue East, Suite 300, Toronto, ON M2J 4Z8

Region of Peel
working with you

File Transfer Info

Expiration Date: **2022-08-28**

Transferred Files

20220729 RR50 PFR Package.zip

_EA and Preliminary Design for Drainage Improvements of Highway 50.pdf

\194615_Appendix1-

\194615_Appendix10-

\194615_Appendix11-Property

\194615_Appendix12-Detailed

\194615_Appendix2-SWM

\194615_Appendix3-Natural

\194615_Appendix4-Cultural

\194615_Appendix5-Stage I

\194615_Appendix6-Fluvial

\194615_Appendix7-

\194615_Appendix8-Phase I

\194615_Appendix9-Hydrogeological Investigation.pdf

Additional Links

Notification generated by Newforma® Project Center
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Region of Peel
working with you

From: Barboza, Karla (MTCS) <Karla.Barboza@ontario.ca>
Sent: July 29, 2022 6:18 PM
To: Courtney Row
Subject: Automatic reply: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

Categories: Filed by Newforma

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Thank you for contacting the Heritage Planning Unit at the Ministry of Tourism, Culture and Sport. I am out of the office returning on Tuesday, August 2. Your message is saved and will be attended to when I return. If your matter is urgent, please contact Laura Hatcher at laura.e.hatcher@ontario.ca.

Thanks,
Karla Barboza

APPENDIX 1 – 5

Indigenous Stakeholder Consultation

From:	Courtney Row
Sent:	June 25, 2020 4:18 PM
To:	Courtney Row
Cc:	Andrew McGregor; Banuri, Syeda
Subject:	Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement
Attachments:	ROP Hwy 50 Drainage Improvements EA-Notice of Commencement.pdf

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

To address this, the study will consider:

- Best Industry Practices
- Climate Change Requirements
- Existing and Future Regulatory Requirements

In developing recommendations, all reasonable alternatives will be considered to minimize impact on adjacent businesses and the surrounding environment.

The intent of this email is to introduce you to the project and to request any relevant background information from you as it relates to the study area. Information that would be of interest includes:

- Contact information and the identification of individuals that represent your agency or group that we should include as a primary contact throughout the study process;
- Description of the existing conditions or sensitivities within the study area as they relate to your interests; and
- Specific issues, concerns and/or expectations that your agency, community or group may have.

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration. Information will also be posted on the study website (link below) as the study progresses.

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

Please respond with your comments or any questions by directly contacting the Project Manager, Syeda Banuri, listed on the attached notice.

Regards,

From: Consultations <Consultations@metisnation.org>
Sent: June 25, 2020 4:16 PM
To: Courtney Row
Subject: Automatic reply: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Categories: Filed by Newforma

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

This is an automatically generated response from consultations@metisnation.org. Please do no reply to this e-mail address.

The MNO is adjusting standard work practices due to the Covid-19 outbreak and to better enable staff to work remotely. **Please note that the MNO's Lands, Resources and Consultations (LRC) Branch will no longer review hard copy consultation notices mailed to MNO offices.** The LRC Branch will review all electronic notices and process them in accordance with our standard operating procedures. All consultation notices must be sent electronically to consultations@metisnation.org.

The Métis Nation of Ontario's LRC Branch acknowledges your information notice. The MNO reserves the right to request additional information, meetings and consultations in respect of the project should the MNO deem it to be necessary.

For additional information pertaining to consulting with Ontario Métis please visit the MNO web site at: http://www.metisnation.org/programs/lands,-resources--consultations/duty-to-consult.

To: Banuri, Syeda
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

From: Maxime Picard <maxime.picard@cnhw.qc.ca>
Sent: Friday, June 26, 2020 9:13 AM
To: Banuri, Syeda
Subject: Fwd: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Good morning Syeda,

This is to acknowledge reception of the attached letter and notice.

Could you please let us know if any archaeological assessment are anticipated as part of the project ?

Thanks and best regards,

Maxime Picard

De: "Courtney Row" <CRow@rvanderson.com>
À: "Courtney Row" <CRow@rvanderson.com>
Cc: "Andrew McGregor" <AMcGregor@rvanderson.com>, "Banuri, Syeda" <syeda.banuri@peelregion.ca>
Envoyé: Jeudi 25 Juin 2020 16:18:05
Objet: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Notice of Study Commencement for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

To address this, the study will consider:

- Best Industry Practices
- Climate Change Requirements
- Existing and Future Regulatory Requirements

In developing recommendations, all reasonable alternatives will be considered to minimize impact on adjacent businesses and the surrounding environment.

The intent of this email is to introduce you to the project and to request any relevant background information from you as it relates to the study area. Information that would be of interest includes:

- Contact information and the identification of individuals that represent your agency or group that we should include as a primary contact throughout the study process;
- Description of the existing conditions or sensitivities within the study area as they relate to your interests; and
- Specific issues, concerns and/or expectations that your agency, community or group may have.

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration. Information will also be posted on the study website (link below) as the study progresses.

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

Please respond with your comments or any questions by directly contacting the Project Manager, Syeda Banuri, listed on the attached notice.

Regards,

Region of Peel
working with you

From: Fawn Sault <Fawn.Sault@mncfn.ca>
Sent: June 25, 2020 4:19 PM
To: Courtney Row
Subject: Automatic reply: Region of Peel Highway 50 Drainage Improvements EA - Notice of Commencement

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Aanii,

Please be advised that as a proactive approach to reducing the exposure of COVID-19, the MCFN Chief and Council have implemented a temporary shutdown of all non-essential services. At this point, we will potentially reopen on July 6th, 2020 at 8:30.

Please check the MCFN website and social media for further updates.

Miigwech,

Region of Peel
working with you

From:	Courtney Row
Sent:	August 10, 2020 11:50 AM
To:	Courtney Row
Cc:	Banuri, Syeda; kslocki@archeoworks.com; Andrew McGregor
Subject:	Region of Peel Highway 50 Drainage Improvements EA - Stage 1 Archeological Assessment
Attachments:	DRAFT P1059-0068-2020_29July2020_RE_St1_Drainage Improvements on Regional Road Highway 50(5).pdf
Categories:	Filed by Newforma

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Stage 1 Archeological Assessment for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

The intent of this email is to provide an opportunity to comment on the attached document. Please note full archaeological clearance has been recommended.

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration. Further information will also be posted on the study website (link below) as the study progresses.

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

Please respond with your comments or any questions by directly responding to this email.

Miigwech,

rva

RVA IS GROWING!
Our NEW Halton and Halifax offices are now open.

Courtney Row
Field/GIS Technician (Trenchless)

P: (416) 497-8600 ext. 1372
C: (647) 285-9020

R.V. Anderson Associates Limited
2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8

rvanderson.com

RVA celebrates the summer season from June 26th to September 4th. Our offices will be closed at 2 pm each Friday.

Region of Peel
working with you

From: Adrian Blake <Adrian.Blake@mncfn.ca>
Sent: November 3, 2020 10:37 AM
To: kslocki@archeoworks.com; Courtney Row
Cc: 'Banuri, Syeda'; Andrew McGregor; Mark LaForme; Megan DeVries; Peter Epler; 'brent lawson'
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Stage 1 Archeological Assessment

Follow Up Flag: Follow up
Flag Status: Flagged

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Good morning Kim,

Thank you for the additional clarification on this issue and your patience with my reply. I wanted to make sure that none of the other archaeological reports cited for the area in question were lacking, as it contains one of the only undeveloped parcels of land in the study area.
After further review, MCFN no longer has any issues or concerns with the report or its recommendations as currently presented.

Have a good day,
Adrian Blake, M.S.
Field Archaeologist

Department of Consultation and Accommodation (DOCA)
Mississaugas of the Credit First Nation (MCFN)
4065 Highway 6 North, Hagersville, ON N0A 1H0
M: 905-979-3862
http://www.mncfn.ca

From: kslocki@archeoworks.com <kslocki@archeoworks.com>
Sent: Wednesday, October 28, 2020 5:22 PM
To: Adrian Blake <Adrian.Blake@mncfn.ca>; 'Courtney Row' <CRow@rvanderson.com>
Cc: 'Banuri, Syeda' <syeda.banuri@peelregion.ca>; 'Andrew McGregor' <AMcGregor@rvanderson.com>; Mark LaForme <Mark.LaForme@mncfn.ca>; Megan DeVries <Megan.DeVries@mncfn.ca>; Peter Epler <Peter.Epler@mncfn.ca>; 'brent lawson' <blawson@archeoworks.com>
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Stage 1 Archeological Assessment

Hi Adrian,

Thank-you for your feedback.

Region of Peel
working with you

To clarify, the statement regarding archaeological potential, as identified within the Regional Municipality of York's AMP (Page 6), was simply that – a statement of potential identification. This had no bearing on recommendations for no further work, or areas identified as "previously assessed" throughout the report. The previous assessment identifications were tied exclusively to archaeological assessments that were previously conducted by licensed archaeologists; these assessments subsequently approved by the MHSTCI. Which archaeological consultant completed the previous assessment is noted in the legend of each map as well in the body of our report (page 25).

If I can offer further clarification on this matter, please kindly advise.

Thank-you,
Kim

Kim Slocki, M.Litt., B.A.H.

archeoworks inc.

16715-12 Yonge St., Suite 1029, Newmarket, ON, L3X 1X4
T: 416-676-5597 | F: 647-436-1938

The content of this email is **confidential** and intended for the recipient specified in message only. It is strictly forbidden to share any part of this message with any third party, without a written consent of the sender.

From: Adrian Blake <Adrian.Blake@mncfn.ca>
Sent: Wednesday, October 28, 2020 3:51 PM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; kslocki@archeoworks.com; Andrew McGregor <AMcGregor@rvanderson.com>; Mark LaForme <Mark.LaForme@mncfn.ca>; Megan DeVries <Megan.DeVries@mncfn.ca>; Peter Epler <Peter.Epler@mncfn.ca>
Subject: RE: Region of Peel Highway 50 Drainage Improvements EA - Stage 1 Archeological Assessment

Good afternoon,

MCFN has finished our review of your Highway 50 Drainage Improvements EA - Stage 1 Archeological Assessment. At this time MCFN has concerns with the content of the report.
The section of Highway 50 that sits within the region of Vaughan appears to have been labeled as "previously assessed" (Map 15) based on the contents of the Regional Municipality of York AMP(Page 6). An AMP is not a Ministry approved document and cannot be used in pace of a Stage 1 AA. This area cannot be considered "previously assessed" at this time. If the archaeologist believes this area or portions of it have been disturbed than a physical property inspection must occur. Due to the use of the AMP, we currently consider this assessment incomplete.

Regards,

Adrian Blake, M.S.
Field Archaeologist

Department of Consultation and Accommodation (DOCA)
Mississaugas of the Credit First Nation (MCFN)
4065 Highway 6 North, Hagersville, ON N0A 1H0
M: 905-979-3862

Region of Peel
working with you

From: Courtney Row <CRow@rvanderson.com>
Sent: Monday, August 10, 2020 11:50 AM
To: Courtney Row <CRow@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; kslocki@archeoworks.com; Andrew McGregor <AMcGregor@rvanderson.com>
Subject: Region of Peel Highway 50 Drainage Improvements EA - Stage 1 Archeological Assessment

Dear Sir/Madam,

On behalf of the Region of Peel, please find attached the Stage 1 Archeological Assessment for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 (Regional Road) from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

The intent of this email is to provide an opportunity to comment on the attached document. Please note full archaeological clearance has been recommended.

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration. Further information will also be posted on the study website (link below) as the study progresses.

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

Please respond with your comments or any questions by directly responding to this email.

Miigwech,

RVA IS GROWING!
Our NEW Halton and Halifax offices are now open.

Courtney Row
Field/GIS Technician (Trenchless)

P: (416) 497-8600 ext. 1372
C: (647) 285-9020

R.V. Anderson Associates Limited
2001 Sheppard Avenue East, Suite 300 Toronto, ON M2J 4Z8

rvanderson.com

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Region of Peel
working with you

From: Courtney Row
Sent: March 11, 2022 4:56 PM
To: Courtney Row
Cc: Banuri, Syeda; Andrew McGregor
Subject: FW: Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2
Attachments: Region of Peel - EA - Highway 50 Draiage Improvements - Notice of PIC 2.pdf

Warm Greetings,

Please find attached the Notice of Public Information Centre (PIC) 2 for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

The study will consider best management practices, to satisfy climate change requirements and comply with existing and future regulatory requirements.

In developing recommendations, all reasonable alternatives are being considered to minimize impacts on adjacent businesses and the surrounding environment.

The intent of this email is to notify you of study progression, updates to the project and to ensure that anyone with an interest in this study has the opportunity to be involved and provide input.

On March 17, 2022, Public Information Centre (PIC) 2 will be posted to the study website. All content and instructions on how to provide feedback and submit questions is outlined on the Region of Peel project website:

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration.

Please, let me know if you have any questions or comments.

Kind regards,

arva

Courtney Row, CAN-CISEC (she / her)
FIELD / GIS TECHNICIAN

t 416 497 8600 ext. <1372> | m <647 285 9020>
a 2001 Sheppard Avenue East, Suite 300, Toronto, ON M2J 4Z8

rvanderson.com

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SME
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From: Fawn Sault <Fawn.Sault@mncfn.ca>
Sent: March 10, 2022 6:30 PM
To: Courtney Row
Subject: Automatic reply: Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2

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Aanii,

I have moved on to my new role for the MCFN Council and will not be checking or recieving any emails at this address. Please forward all Archaeological inquries to Adam.LaForme@mncfn.ca and any Consultation inquires to Mark.LaForme@mncfn.ca and CC DOCA.Admin@mncfn.ca

Have a safe and happy new year!

Miigwech,

Fawn Sault

Region of Peel
working with you

From: Courtney Row
Sent: March 11, 2022 3:47 PM
To: Dominic Ste-Marie
Cc: Mario Gros Louis; Lori-Jeanne Bolduc; Andrew McGregor; Banuri, Syeda
Subject: RE: Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2

Hi Dominic,

Thank you for your interest in the study. The archaeological draft report indicates the "entirety of study corridor having been either previously subject to archaeological assessment and/or visually confirmed to be heavily disturbed… no further work recommended."

Stages 1-3 Archaeological Assessment of (peelregion.ca)

Project Website

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

Please review the draft report on the project website and if you have any further questions let us know. I have added your individual email to our contact list for future updates on the project.

Have a wonderful weekend,

rva

Courtney Row, CAN-CISEC (she / her)
FIELD / GIS TECHNICIAN

t 416 497 8600 ext. <1372> | m <647 285 9020>
a 2001 Sheppard Avenue East, Suite 300, Toronto, ON M2J 4Z8

rvanderson.com

BEST MANAGED COMPANIES Platinum member
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GREATER TORONTO'S TOP EMPLOYERS

From: Dominic Ste-Marie <Dominic.Sainte-Marie@wendake.ca>
Sent: March 11, 2022 9:09 AM
To: Courtney Row <CRow@rvanderson.com>
Cc: Mario Gros Louis <Mario.GrosLouis@wendake.ca>; Lori-Jeanne Bolduc <Lori-Jeanne.Bolduc@wendake.ca>
Subject: RE: Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2

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Ndio' Courtney,

Region of Peel
working with you

Thank you for your email. Could you please let us know if any archaeological studies or fieldwork will be necessary as part of this project, namely about the upcoming pedestrian and cycling facilities alluded in the document that was attached?

Tiawenhk chia' önenh
Dominic Ste-Marie

NATION HURONNE-WENDAT
Bureau du Nionwentsïo

Dominic Ste-Marie
Conseiller en gestion du territoire
255, Place Chef Michel-Laveau
Wendake (Qc) G0A 4V0
Téléphone : 418-843-3767
Courriel : dominic.ste-marie@wendake.ca

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ATTENTION: Please note that Maxime Picard has a new position at the Huron-Wendat Nation Council and is no longer in charge of Ontario consultations. Any new consultation from Ontario must be sent to Mario Gros-Louis (mario.groslouis@wendake.ca), Lori-Jeanne Bolduc (lori-jeanne.bolduc@wendake.ca) and Dominic Ste-Marie (dominic.ste-marie@wendake.ca).

For inquiries relating specifically to archaeology (fieldwork planning, monitoring, reports review, etc.), please contact Marie-Sophie Gendron (marie-sophie.gendron@wendake.ca), Isabelle Lechasseur (isabelle.lechasseur@wendake.ca) and Jean-François Richard (jean-francois.richard@wendake.ca).

De : Courtney Row <CRow@rvanderson.com>
Envoyé : 10 mars 2022 18:29
À : Courtney Row <CRow@rvanderson.com>
Cc : Banuri, Syeda <syeda.banuri@peelregion.ca>; Andrew McGregor <AMcGregor@rvanderson.com>
Objet : Region of Peel - EA - Highway 50 Drainage Improvements - Notice of PIC 2

Warm Greetings,

Please find attached the Notice of Public Information Centre (PIC) 2 for the Schedule "B" Municipal Class Environmental Assessment (EA) and Preliminary Design for Drainage Improvements of Highway 50 from Mayfield Road to Healey Road.

The EA study has been initiated to review opportunities within the study area to address drainage improvements for entrance culverts and drainage ditches along Highway 50 in the Town of Caledon. As part of the study, the Region is also considering options to improve pedestrian and cyclist amenities along the roadway, in consideration of the Region's Sustainable Transportation Strategy.

The study will consider best management practices, to satisfy climate change requirements and comply with existing and future regulatory requirements.

Region of Peel
working with you

From: Banuri, Syeda <syeda.banuri@peelregion.ca>
Sent: August 17, 2022 5:49 PM
To: Marie-Annick Prevost
Cc: Adam LaForme; Courtney Row; Andrew McGregor
Subject: RE: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Thank you so much Marie-Annick for taking the time to review the report. We will keep you posted further.

Regards,

Syeda Banuri, M.Eng., P.Eng.
Project Manager, Infrastructure Programming and Studies
Transportation, Public Works
10 Peel Centre Dr., Suite B, 4th Floor, Brampton, ON L6T 4B9
syeda.banuri @peelregion.ca
tel: 905-791-7800, ext. 4052
cell: 416-407-7860

From: Marie-Annick Prevost <Marie-Annick.Prevost@mncfn.ca>
Sent: August 17, 2022 3:13 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>; AMcGregor@rvanderson.com
Cc: Adam LaForme <Adam.LaForme@mncfn.ca>; crow@rvanderson.com
Subject: RE: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

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Aanii Syeda and Andrew,

On behalf of the Mississaugas of the Credit First Nation, Department of Consultation and Accommodation, I reviewed the Stage 1 Archaeological Assessment report prepared by Archaeoworks for the Regional Road 50 EA.

I do not have questions or comments about the archaeological aspect of this project.

We look forward to collaborating further with you.

Miigwech,

Marie-Annick Prevost, Ph.D. (she/her)
Field archaeologist

Mississaugas of the Credit First Nation (MCFN)
Department of Consultation and Accommodation (DOCA)
4065 Highway 6 North, Hagersville, ON N0A 1H0
Cell: 905-870-5844

From: Courtney Row <crow@rvanderson.com>
Sent: Friday, July 29, 2022 6:18 PM

Subject: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

Project: 194615 **Regional Road 50 EA**

From: [redacted]@metisnation.org>
Sent: August 19, 2022 4:37 PM
To: Courtney Row
Subject: RE: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Thanks Courtney You can keep the general email for this project.
Kind regards
[redacted]

Sent from my Bell Samsung device over Canada's largest network.

-------- Original message --------
From: Courtney Row <CRow@rvanderson.com>
Date: 2022-08-19 4:03 p.m. (GMT-05:00)
To: [redacted]@metisnation.org>
Cc: Andrew McGregor <AMcGregor@rvanderson.com>
Subject: RE: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

Hi [redacted]

I apologize for the miscommunication. I have removed you from the contact list. The general inbox address for consultations remains.

Project notifications are a requirement of the environmental assessment process and are shared at key points along the study timeline. If you have any questions please let me know. An additional notice, possible more than one, will be sent for this project in the coming months. Do you wish to remove the general inbox completely from the list for this project and receive no further communications? Please kindly advise.

I hope you have a wonderful weekend!

Best wishes,

Courtney Row, C. Tech., CAN-CISEC (she / her)
FIELD / GIS TECHNICIAN

t 416 497 8600 ext. <1372> | m <647 285 9020>
a 2001 Sheppard Avenue East, Suite 300, Toronto, ON M2J 4Z8

From: [redacted]@metisnation.org>
Sent: August 18, 2022 9:36 AM
To: Courtney Row <CRow@rvanderson.com>
Subject: RE: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

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Hello Ms. Crow,

I am still receiving notifications from you through the Newforma application. Can you please reconfigure the delivery notifications on Newforma so that my email ([redacted]metisnation.org) is removed and email addressed to the Metis Nation of Ontario go instead to consultations@metisnation.org. As a note the Metis Nation of Ontario only needs to receive project notifications once; we would not like to receive the reminder emails to the consultations@metisnation.org email box.

[redacted]
Lands, Resources and Consultations
Métis Nation of Ontario
311-75 Sherbourne St.
Toronto, ON M5A 2P9
[redacted]
TF: 1-888-466-6684
[redacted]

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[redacted]

Sent: August 3, 2022 9:30 AM
To: 'crow@rvanderson.com' <crow@rvanderson.com>
Subject: RE: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

Hello Ms. Row,

Please remove my name from your mailing list and send notifications such as these to the email address consultations@metisnation.org

Thanks very much,

[redacted]

Lands, Resources and Consultations
Métis Nation of Ontario
311-75 Sherbourne St.
Toronto, ON M5A 2P9

[redacted]

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Please consider the environment before printing this e-mail.

From: Courtney Row [mailto:crow@rvanderson.com]
Sent: July 29, 2022 6:18 PM
[redacted]
Subject: 194615 - Regional Road 50 EA - Shared Folder: Highway50 PFR Consultation

Project: 194615 **Regional Road 50 EA**

APPENDIX 1 – 6

Resident, Business Owner and General Public Consultation

← Back

View results

Respondent

4 | Anonymous

37:14
Time to complete

1. Please provide your first and last name (optional)

2. If you would like to receive updates on this project, please enter your email address below:

3. Please select the organization or group you associate with: *

- Business/Property Owner
- General/Interested Stakeholder
- Conservation Authority
- Other

4. Please provide your questions and/or comments regarding the **Public Information Centre 2 (PIC#2)** below: *

1) Were the proposed channelized islands at the Mayfield intersection designed to accommodate WB-20 turning vehicles? Many municipalities are removing these type of islands to be more friendly for snow ploughs to clear the intersection and provides maximum turning flexibility for truck turning maneuvers. 2) While I recognize the traffic islands at Mayfield provides a space for installing utility poles to reduce span length, was it considered to burying the hydro across the intersection. 3) Being a resident of Bolton since 1997 I've witnessed first hand the growth of the community. Having said that, can you advise why the proposed 1.8m sidewalk wasn't proposed to go further south to at least up to Parr Boulevard intersection - although infrequent I still see pedestrians walking the east shoulder on Hwy 50 from Parr. Ideally with the recent announcement from Metrolinx that the GO is coming to Bolton, the study should revisit the viability to bring the future sidewalk down to Mayfield so it can connect to the commuter parking lot.

Region of Peel
working with you

In developing recommendations, all reasonable alternatives are being considered to minimize impacts on adjacent businesses and the surrounding environment.

The intent of this email is to notify you of study progression, updates to the project and to ensure that anyone with an interest in this study has the opportunity to be involved and provide input.

On March 17, 2022, Public Information Centre (PIC) 2 will be posted to the study website. All content and instructions on how to provide feedback and submit questions is outlined on the Region of Peel project website:

<https://peelregion.ca/public-works/environmental-assessments/caledon/highway50.asp>

The project team values the participation of all stakeholders and wishes to ensure that the community's interests and concerns are taken into consideration.

Please, let me know if you have any questions or comments.

Kind regards,

rva

Courtney Row, CAN-CISEC (she / her)
FIELD / GIS TECHNICIAN

t 416 497 8600 ext. <1372> | m <647 285 9020>
a 2001 Sheppard Avenue East, Suite 300, Toronto, ON M2J 4Z8

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View results

Respondent

3 | Anonymous

05:27
Time to complete

1. Please provide your first and last name (optional)

[redacted]

2. If you would like to receive updates on this project, please enter your email address below:

3. Please select the organization or group you associate with: *

- Business/Property Owner
- General/Interested Stakeholder
- Conservation Authority
- Other

4. Please provide your questions and/or comments regarding the **Public Information Centre 2 (PIC#2)** below: *

the drainage work makes sense as presented. my concern with the MUP and intersections along 50 are about safety. Healey and McEwen are busy and getting busier. Truck traffic off of each of those streets onto southbound is very heavy, and rolling stops by trucks is constant. I don't see how the MUP, as drawn, factors in any sort of intersection upgrades. If you're counting on signage and common sense driving, that's a disaster in the making. Please put more emphasis on making the intersections of roadways, MUPs and sidewalks safer for pedestrians and bikers. Similarly, and likely out of the scope of the project, better enforcement for speed and safety (aggressive driving, bad lane changes) is desperately needed along 50 in the area of the study. Permanent red light and traffic cameras would go a long way in showing that the Region is serious about road, cycle and pedestrian traffic. Most of the intersections in the study area are like the wild west, especially now that the 427 extension has opened. Highway 50 has become a raceway to get to the 427. The 60 km/h speed limit is not adhered to by the majority of vehicles and walking or cycling along 50 is a nightmare, which won't be fully addressed by the proposal as written.

Region of Peel
working with you

From: Reinders, Jamie <jamie.reinders@peelregion.ca>
Sent: August 4, 2020 8:27 AM
To: Andrew McGregor <AMcGregor@rvanderson.com>
Cc: Banuri, Syeda <syeda.banuri@peelregion.ca>; Peter Cho <pcho@rvanderson.com>
Subject: FW: 12148 Albion Vaughan Road

[CAUTION EXTERNAL EMAIL] Make Sure that it is legitimate **before** Replying or Clicking on any links

Hi Andrew and Syeda,

In regards to [redacted] please see the email below and the attached TRCA application.

Thanks,

Jamie Reinders
Capital Acquisition Agent | Real Estate
The Regional Municipality of Peel
10 Peel Centre Drive, Suite B, 6th Floor
Brampton, ON L6T 4B9
Office Phone: 905-791-7800 ext. 7371
Cell Phone: 416-671-3237
Fax: 905-791-3645 Toll Free: 1-888-919-7800
Email: jamie.reinders@peelregion.ca
NOTE: During the Covid-19 Emergency Declaration please contact me on my cell phone.

Region of Peel
working with you

[redacted]
Sent: July 31, 2020 9:36 AM
To: Reinders, Jamie <jamie.reinders@peelregion.ca>; [redacted]
Subject: RE: Bolton Albion Vaughan Road

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hi Jaime,

Region of Peel
working with you

As mentioned on the phone prior, we are in the process of realigning the channel on the property, which was altered without permit by the previous landowner. We want to make sure that the EA does not negatively impact what we are doing, which has been submitted to TRCA already. Please also note that we will be removing the culvert along Highway 50 as the entrance for this site will be along Albion Vaughan Road.

Both of these changes should increase the flowrate of this system, which should be in line with what the region wants. Please see our original TRCA application for details.

Regards,

MASONGSONG ASSOCIATES
ENGINEERING SUSTAINABLE FUTURES

[redacted]

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From: Reinders, Jamie <jamie.reinders@peelregion.ca>
Sent: July 31, 2020 8:01 AM
[redacted]
Subject: RE: Bolton Albion Vaughan Road

That's great. Thanks Mike.

Jamie Reinders
Capital Acquisition Agent | Real Estate
The Regional Municipality of Peel
10 Peel Centre Drive, Suite B, 6th Floor
Brampton, ON L6T 4B9
Office Phone: 905-791-7800 ext. 7371
Cell Phone: 416-671-3237
Fax: 905-791-3645 Toll Free: 1-888-919-7800
Email: jamie.reinders@peelregion.ca
NOTE: During the Covid-19 Emergency Declaration please contact me on my cell phone.

Region of Peel
working with you

From: [redacted]
Sent: July 30, 2020 9:08 PM

Region of Peel
working with you

To: Reinders, Jamie <jamie.reinders@peelregion.ca>
Cc: [redacted]
Subject: Bolton Albion Vaughan Road

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Hi Jamie,

I am enclosing the permission letter signed by me, please let me know if you require any further information.

Thank you

[redacted]

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Cc’d Syeda here as I noticed she is the PM on this project based on the website.

[redacted]

[redacted]

December 6th is the National Day of Remembrance and Action on Violence Against Women. On this day, we honour and remember the lives of 14 women in engineering at École Polytechnique in Montreal, who were targeted because of their gender.

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From: Quigley, Brandon <brandon.quigley@peelregion.ca>
Sent: March 30, 2021 2:27 PM
To: Banuri, Syeda <syeda.banuri@peelregion.ca>
Cc: Detaramani, Tina <tina.detaramani@peelregion.ca>
Subject: FW: Accessibility issues

Hi Syeda,

Following up with this again – any details you can provide in regards to new AT infrastructure as part of your EA study along Highway 50 through Bolton would be appreciated, particularly in regards to construction timing.
Any chance you could get back to me this week? Or Councillor Groves directly?

From: Quigley, Brandon
Sent: March 19, 2021 3:52 PM
To: Banuri, Syeda <Syeda.Banuri@peelregion.ca>
Cc: Detaramani, Tina <Tina.Detaramani@peelregion.ca>; Tatla, Manvir <Manvir.Tatla@peelregion.ca>
Subject: FW: Accessibility issues

Hi Syeda,

We received an inquiry through Councillor Groves regarding Highway 50 through Bolton, at a location within your Highway 50 EA study. See below for details. Hoping you can either:

a.) Give me some more details that may be relevant that I can add to my draft below. In particular, I'm wondering what exactly the construction timing will be, and if new pedestrians crossings or signalization is being considered as part of the project.
b.) Alternately, perhaps you may be better positioned to respond to the inquiry yourself, as your EA has the opportunity to address the accessibility issues identified by the resident.

Let me know what you would prefer. Feel free to give me a call via Teams or at [redacted] discuss if you like.

Brandon Quigley BA, BEd, MES
Sustainable Transportation & Strategic Initiatives
Region of Peel
10 Peel Centre Drive, Suite B, 4th Floor
Brampton, ON L6T 4B9
Cell: 416-871-1886
Office: 905-791-7800 ext. 8389
Pronouns: he, him, his
Walkandrollpeel.ca

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From: Detaramani, Tina <tina.detaramani@peelregion.ca>
Sent: March 19, 2021 12:24 PM
To: Quigley, Brandon <brandon.quigley@peelregion.ca>
Cc: Tatla, Manvir <manvir.tatla@peelregion.ca>; Smith, Neal <neal.smith@peelregion.ca>; Sadat, Pari <pari.sadat@peelregion.ca>
Subject: RE: Accessibility issues

Hi, yes lets run it by Syeda to see if there's an opportunity to address

Thanks!

From: Quigley, Brandon <brandon.quigley@peelregion.ca>
Sent: March 19, 2021 10:32 AM
To: Detaramani, Tina <tina.detaramani@peelregion.ca>
Cc: Tatla, Manvir <manvir.tatla@peelregion.ca>; Smith, Neal <neal.smith@peelregion.ca>; Sadat, Pari <pari.sadat@peelregion.ca>
Subject: RE: Accessibility issues

Hi Tina,

Pari reminded me during our Pending Inquiries meeting that I let this one slip through the cracks this week – apologies.

In addition to the response below, one idea I have is to ask traffic operations to see if a signalized crossing could be warranted at Simona Drive. I'm not sure how likely it is to be warranted, but it would help residents – especially the one referenced below – access the west side sidewalk from the east. It's a pretty long gap (600 m) between existing crossings on a busy roadway. My main hesitation is perhaps this is being considered as part of the EA.

I wrote a draft response – although I am wondering if we want to pass over this response to Syeda, who is managing the EA in this area. Let me know what you think.

Manvir, I think you've had some involvement in Highway 50 EA, so maybe you have some insight into this as well.

Dear Councillor Groves and [redacted]

Thank you for your inquiry regarding accessibility issues and sidewalk gaps along Highway 50 through Bolton.

Firstly, to clarify, by the [redacted] I'm assuming you mean the [redacted] near the intersection of Highway 50 and Simona Drive. If I am incorrect in this assumption, please let me know.

It is true that there is no sidewalk on the west side of Highway 50 between Mayfield Road to approximately Hopcroft Road, including in front of the Bolton Motel. There are sidewalks on the east side currently, but there are some gaps that effect continuity and accessibility in this area.

For these reasons, the Region of Peel's Sustainable Transportation Strategy (STS) has identified this section of Highway 50 as a Pedestrian Improvement Area, eligible for short term improvements, and also has a longer term vision of continuous pedestrian and cycling facilities along the entire length of Highway 50 through Bolton. The Region is also coordinating with the Town of Caledon on implementing the goals of the Town's Queen Street Corridor Study and Bolton Transportation Master Plan.

Currently, there is an Environmental Assessment being conducted by the Region along Highway 50 between Mayfield Road and Healey Road. As part of this project, active transportation improvements are being developed, including exploring the addition of a multi-use path or cycle track. More details on this EA can be found at Regional Road Highway 50 Drainage Improvements from Mayfield Road to Healey Road - Region of Peel (peelregion.ca). The EA is scheduled to move to detailed design and construction phases next year (2022). I am cc'ing the EA's Project Manager, Syeda Banuri, who may be able to provide more details on the progress of the EA and timing of construction.

From: Detaramani, Tina <tina.detaramani@peelregion.ca>
Sent: March 11, 2021 5:15 PM
To: Sadat, Pari <pari.sadat@peelregion.ca>; Quigley, Brandon <brandon.quigley@peelregion.ca>
Cc: Tatla, Manvir <manvir.tatla@peelregion.ca>; Smith, Neal <neal.smith@peelregion.ca>
Subject: FW: Accessibility issues

Hi Brandon
Are you able to look into this one? Could be a maintenance issue or could be something larger. I did a quick google map and looks like there's a sidewalk on the west side when I google [redacted] I cant find the [redacted]

Pari, could you please add to the pending items sheet?

From: Annette Groves <Annette.Groves@caledon.ca>
Sent: March 10, 2021 12:34 AM
To: Hardcastle, John <john.hardcastle@peelregion.ca>
Subject: FW: Accessibility issues

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hello John, I am not sure if you are the person I should be sending this to if not can you please send it to the appropriate staff.

Kind regards,

Annette Groves
Regional Councillor, Ward 5 Bolton
Cell: 416-434-3256

Sent: Friday, February 26, 2021 1:33 PM
To: Annette Groves <Annette.Groves@caledon.ca>
Subject: Accessibility issues

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the contents to be safe.

Hello Annette, thank you for the conversation this morning.

As you know I volunteer a [redacted] and have become aware of a gentleman who is unable to get anywhere in town [redacted] He is in [redacted] he has mobility issues which require the us of his scooter. There are no sidewalks in that area, just a little asphalt strips beside the curbs that don't have any ramps leading on or off the asphalt strips. Also, at the moment those paved strips are covered in snow.

Is there anything that can be done to make the south end of town [redacted] and others in similar situations.

Thank you,

Best Regards

[redacted]

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Toronto Ontario M2J 4Z8 Canada
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MEETING MINUTES

Project 194615 Regional Road 50 (Mayfield to Healey) - Peel Region

DATE: April 22, 2021

PLACE: Online

PROJECT NO.: **194615**

PRESENT: Syeda Banuri – SB (Region of Peel)
Jamie Reinders – JR (Region of Peel)
[redacted]
Andrew McGregor – AM (RVA)

Purpose of the meeting: Discussion of preliminary property impacts with owner o[redacted]

DISCUSSION:		**ACTION BY:**
1.	Region provided an introduction of the project team members (Region and RVA / Consultant) and brief overview of the project.	INFO
2.	Project objectives and preliminary recommendations were discussed, including the need to acquire approx. 143 m^2 of property frontage for the proposed multi-use path (actual property requirements to be confirmed during detailed design phase).	INFO
3.	Discussion focused on the impacts of the proposed location of the multi-use path (MUP) and future plans to widen the bridge. [redacted] stated that he is not against the Region's design or property requirements but asked that the Region consider reducing the extent that the current median is shifted to the south, as this would significantly impede large trucks from turning left (north) after entering their parking lot. He noted that this is where the trucks access the supply yard.	INFO
	RVA acknowledged the concern and said they would look at ways of reducing the length of the median.	RVA
4.	Region thanked the property owner for their time and input and the meeting was adjourned.	INFO

Minutes prepared by: Andrew McGregor

Distribution: all attendees

document2

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MEETING MINUTES

Project 194615 Regional Road 50 (Mayfield to Healey) - Peel Region

DATE: April 21, 2021

PLACE: Online

PROJECT NO.: **194615**

PRESENT: Syeda Banuri – SB (Region of Peel)
Jamie Reinders – JR (Region of Peel)
[redacted]
Andrew McGregor – AM (RVA)

Purpose of the meeting: Discussion of preliminary property impacts with owner of [redacted]

DISCUSSION:		**ACTION BY:**
1.	Region provided an introduction of the project team members (Region and RVA / Consultant) and brief overview of the project.	INFO
2.	Project objectives and preliminary recommendations were discussed, including the need to acquire approx. 127 m^2 of property frontage for the proposed multi-use path (actual property requirements to be confirmed during detailed design phase).	INFO
3.	Discussion focused on the impacts of the proposed location of the multi-use path (MUP). Property owners noted that the proposed layout of the MUP is not acceptable as it would result in 1. Loss of available parking for staff and customers; 2. Loss of maneuverability for trucks (up to 45 ft); and 3. Loss of access to tenant parking (3) in the rear. It was noted that implementing the MUP at the proposed location would require vehicles to drive over the MUP, resulting in safety issues.	INFO
4.	Region/RVA acknowledged the impacts that would be caused by the proposed design and stated that they would see if the proposed MUP alignment could be modified to avoid or reduce the noted impacts.	RVA
5.	Region to follow up with property owner following revisions to the alignment.	Region
6.	Region thanked the property owner for their time and input and the meeting was adjourned.	INFO

Minutes prepared by: Andrew McGregor

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MEETING MINUTES

Distribution: all attendees

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APPENDIX 1 – 7

MECP CLI ECA Checklist

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Public Works

10 Peel Centre Dr.
Suite B
Brampton, ON
L6T 4B9
tel: 905-791-7800

peelregion.ca

MECP CLI ECA
Checklist for Authorized Amendment/Alteration[1] to the Regional Road Stormwater Management System
ECA Number: 009-S701

Please include ZZG-Environmental Approvals (zzgenvironmentalapprovals@peelregion.ca) on all correspondence involving the CLI ECA and the steps outlined below.

1. During EA	
☒	1. Confirm or perform indigenous consultation for alterations. *(ECA Schedule D Condition 3.13)*
☒	2. Confirm if alterations are within a Source Water Protection vulnerable area, and whether the alterations pose a Significant Drinking Water Threat, as well as summary of design considerations and measures to mitigate risks resulting from construction or operation of the alterations.
	3. Confirm if stormwater design meets the CLI ECA Design Criteria 2022 and Peel's Storm Criteria 2019.
	4. Obtain written consent from private property owner where alterations are located on private property, or the alteration establishes or alters any outlets that discharges to private lands. (*ECA Schedule D Condition 4.1.4*).
	5. If the alteration connects to another municipal stormwater management system, obtain written consent from Owner or Owner's delegate of the Municipal Stormwater System being connected to. (*ECA Schedule D Condition 4.3.11*).
1. During Detail Design	
☐	2. Review *CLI ECA Schedule D Conditions 4-5*, and *Design Criteria for Sanitary Sewers, Storm Sewers and Forcemains for Alterations Authorized under Environmental Compliance Approval*, and complete and sign-off on Parts 1 to 4 of the Form SW1, SW2, and/or SW3, whichever are applicable. Provide copies of all consents and verification, design and drawings, and other relevant report and correspondence. **(See Attachments 2 to 3, and 5 to 7 with the CLI ECA Process Memo)**
☐	3. If the alteration utilizes privately owned stormwater works in the stormwater treatment train, obtain the right, through legal instruments or binding agreements, to access, operate and maintain the Privately Owned Sewage Works. Ensure the private owned stormwater works have obtained separate

[1] Authorized amendment and Authorized alteration are being used interchangeably. They mean the same thing, and refer to addition, modification, replacement, or extension of the stormwater management system.

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	approval(s). (*ECA Schedule D Condition 5.2.7)*
☐	4. Consult with and obtain necessary approvals from the Conservation Authority.
☐	5. Ensure tender documents (i.e. construction and/or inspection/testing tenders) accommodate all expectations of the ECA requirements and the new process outlined herein, including: a. No untreated discharge of stormwater through assets until their full completion/acceptance b. Vendor shall permit and accept Peel Operations access to stormwater assets during warranty period for the purposes of inspections and maintenance activities (in accordance with manufacturers recommendations) without compromising of capital installation warrantable defects c. ESC inspection frequency and tracking, and maintenance of ESC measures on site d. Inspection and Testing requirements set out in *Design Criteria for Sanitary Sewers, Storm Sewers and Forcemains for Alterations Authorized under Environmental Compliance Approval.*
☐	6. Submit IFC drawings to the Region so that stormwater facilities can be incorporated into asset management system.
2. During Construction	
☐	1. Post and maintain copy of ECA and Director's Notification form at site office *(ECA Schedule D Condition 2.4).*
☐	2. Conduct bi-weekly and storm and snowmelt event erosion and sediment control inspections and maintain such inspection records for access by MECP as requested *(ECA Schedule D Condition 3.11).*
☐	3. Prepare and submit to the Region updates for each calendar year due January 31 confirming and outlining status of proposed facilities and expected date of preliminary acceptance. *(ECA Schedule E Condition 5.2.8)*
☐	4. Ensure that the stormwater collection and conveyance system is not operated until the stormwater management facilities that are designed to service the system are commissioned (i.e. no discharge from new stormwater systems until fully completed and accepted (Refer to Step 8a) *(ECA Schedule C Condition 4.2*).
☐	5. Submit as-built shop drawings (with facility ID issued by Peel CAD group) to the Region.
☐	6. Obtain Region ETS and Operations preliminary storm inspection report before issuing preliminary acceptance letter to contractor. Ensure site is stabilized, road is swept clean, and all storm assets are flushed and free of debris and sediment at date of preliminary acceptance (when Region Operations will take over maintenance during warranty). Submit acceptance letters and all final CCTV inspection videos and reports to the Region. (*ECA Schedule D Condition*

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	5.4)
3. Post Construction (When stormwater infrastructure is fully completed)	
☐	1. Complete and sign-off on Part 5 of the Form SW1, SW2, and/or SW3, whichever are applicable. Submit the fully completed form to the Region.
☐	2. Complete and sign-off on the Director's Notification form. Submit this to the MECP within 30 days of issuance of substantial performance. DO NOT submit Director's Notification for Storm Sewer, ditch, or culvert authorized by condition 4.1 of Schedule D. **(See Attachment 4 with the CLI ECA Process Memo)**
☐	3. Complete and submit to the Region, the Asset Attribute Table for each new Manufactured Treatment Device and LID Complex (type, description, location, manufacturer, capacity, dimensions, maintenance type, suggested maintenance frequency, etc.) **(See Attachment 8 with the CLI ECA Process Memo).**
☐	4. Complete and submit to the Region the CAD approved as-built drawings, within 1 year of substantial performance (including confirmation of data entry into Peel's PRISM system). Note that project deliverable timelines may be more stringent than this specific ECA requirement.
☐	5. Complete and Submit final Operation and Maintenance Manual(s) to the Region.
4. During Warranty Period	
☐	1. To meet the ECA Schedule E Conditions of the CLI ECA, Road Operations will conduct detailed annual inspections on stormwater infrastructure to inform maintenance requirements. The inspection results will be provided to the PM for coordinating maintenance activities.
☐	2. The PM will utilize Road Operations' Vendors to maintain stormwater infrastructure, including any of private property that are part of the treatment train, as required, including cleaning manufactured treatment devices. The contractor will be notified and may choose to be present during the maintenance. To ensure damage is not done by the maintenance works, pre and post maintenance photos will be provided. Regional inspectors will be onsite. Any possible capital defect identified during maintenance activities by Operation or Region inspector will be logged and transmitted to PM for repair through warranty.
☐	3. IP&S will undertake monitoring to assess the performance of LID facilities. Performance data will be provided to the PM in the event defects are identified.

Ontario

Design Criteria for
Sanitary Sewers, Storm Sewers and Forcemains for Alterations Authorized under Environmental Compliance Approval

Ministry of Environment, Conservation and Parks

v.1 April 22, 2022

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Appendix I: Understanding Risks to Sources of Drinking Water

Preface

The Design Criteria establish the minimum design requirements for Alteration to an existing Municipal Sewage Collection System and Municipal Stormwater Management System by adding, modifying, replacing, or extending Sanitary Sewers, forcemains, or Storm Sewers to satisfy one of the conditions imposed by the Director in Municipal Sewage Collection System ECA and Stormwater ECA authorizing future Alterations. Compliance with this Criteria and other conditions of the ECA negates the need for the Owner of the Municipal Sewage Collection System and Municipal Stormwater Management System to apply for an amendment to the ECA for the Alteration of Sanitary Sewers, forcemains or Storm Sewers within the collection system.

The existence of these Criteria does not preclude Alteration of Sanitary Sewers, forcemains or Storm Sewers that are not designed in accordance with these Design Criteria. However, any Alterations to collection systems that are either not designed in accordance with this Design Criteria or does not satisfy the conditions of the ECA are subject to the requirement to obtain an amendment to the ECA prior to proceeding with the undertaking.

Other approving authorities, such as municipalities in which the works are constructed or regional governments, may have servicing standards or criteria that are more stringent than the requirements outlined in the Design Criteria and they shall be considered acceptable for the purposes of complying with the requirements of the Design Criteria.

The Design Criteria document reflect program decisions that would be routinely made by the approving Director that issues ECAs under the authority of the Ontario Water Resources Act and the Environmental Protection Act. The Design Criteria may be updated from time to time by the Director or in order to conform to any future changes to the provincial policy, regulation or legislation that apply to Sanitary Sewers, forcemains or Storm Sewers.

Definitions

For the purpose of this Design Criteria, the following definitions apply:

“Adverse Effect(s)” has the same meaning as defined in section 1 of the EPA.

“Alteration(s)” includes the following, includes the following, in respect of the Authorized System, but does not include repairs to the system:

a) An extension of the system,

b) A replacement of part of the system, or

c) A modification of**,** addition to or enlargement of the system.

“Appurtenance(s)” has the same meaning as defined in O. Reg. 525/98 (Approval Exemptions) made under the OWRA.

“Authorized System” means the Sewage Works authorized under an Environmental Compliance Approval for a Municipal Sewage Collection System or an Environmental Compliance Approval for a Municipal Stormwater Management System.

“Collection System Overflow(s)” means a discharge (SSO or CSO) to the environment at designed location(s) from the Authorized System.

“Combined Sewer(s)” means pipes that collect and transmit both sanitary Sewage and other Sewage from residential, commercial, institutional and industrial buildings and facilities and Stormwater runoff through a single-pipe system, but does not include Nominally Separate Sewers.

“Combined Sewer Overflow(s)” or “(CSO)” means a combined sewer overflow which is a discharge to the environment at designated location(s) from a Combined Sewer or Partially Separated Sewer that usually occurs as a result of precipitation when the capacity of the Sewer is exceeded. An intervening time of twelve hours or greater separating a CSO from the last prior CSO at the same location is considered to separate one overflow Event from another.

"CWA" means the *Clean Water Act*, R.S.O. 2006, c.22.

“Design Criteria” means the design criteria set out in the Ministry’s publication “Design Criteria for Sanitary Sewers, Storm Sewers and Forcemains for Alterations Authorized under Environmental Compliance Approval”, (as amended from time to time).

"Director" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA.

“ECA” means an Environmental Compliance Approval.

"Emergency Situation" means a structural, mechanical, electrical failure, or operational health and safety incident, that causes a temporary reduction in the capacity, function or performance of any part of the Authorized System or an unforeseen flow condition that may result in:

a) Danger to the health or safety of any person;

b) Injury or damage to any property, or serious risk of injury or damage to any property;

c) Adverse Effect to the Natural Environment; or;

d) Spill.

"EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19;

"Event(s)" means an action or occurrence, at any given location within the Authorized System that causes a Collection System Overflow. An Event ends when there is no recurrence of a CSO or SSO in the Collection System at the same location in the 12-hour period following the last Collection System Overflow.

"Facility" means the entire operation located on the property where the Sewage Works is located;

"Licensed Engineering Practitioner" means a person who holds a licence, limited licence, or temporary licence under the *Ontario Professional Engineers Act* R.S.O. 1990, c. P.28.

"LID" means "low impact development" a Stormwater management strategy that seeks to mitigate the impacts of increased runoff and Stormwater pollution by managing runoff as close to its source as possible. LID comprises a set of site design strategies that minimize runoff and distributed, small scale structural practices that mimic natural or predevelopment hydrology through the processes of infiltration, evapotranspiration, harvesting, filtration, and detention of Stormwater.

"MTD" means manufactured treatment device;

"Minister" means the Minister of the Ministry or such other member of the Executive Council as may be assigned the administration of the EPA and OWRA under the *Executive Council Act*, R.S.O. 1990, c. E.25;

"Ministry" means the Ministry of the Minister and includes all employees or other persons acting on its behalf;

"Municipal Sewage Collection System" means all Sewage Works located in the geographical area of a municipality that collect and transmit sanitary Sewage and are owned, or may be owned pursuant to an agreement with a municipality entered into under the *Planning Act* or *Development Charges Act*, 1997, by:

a) A municipality, a municipal service board established under the *Municipal Act*, 2001 or a city board established under the *City of Toronto Act*, 2006; or;

b) A corporation established under sections 9, 10 and 11 of the *Municipal Act*, 2001 in accordance with section 203 of that *Act* or under sections 7 and 8 of the *City of Toronto Act*, 2006 in accordance with sections 148 and 154 of that Act;

“Municipal Stormwater Management System” all Sewage Works, located in the geographical area of a municipality, that collect, transmit, or treat Stormwater and are owned, or may be owned pursuant to an agreement entered into under the Planning Act or Development Charges Act, 1997, by:

a) A municipality, a municipal service board established under the Municipal Act, 2001 or a city board established under the City of Toronto Act, 2006; or

b) A corporation established under sections 9, 10 and 11 of the Municipal Act, 2001 in accordance with section 203 of that Act or under sections 7 and 8 of the City of Toronto Act, 2006 in accordance with sections 148 and 154 of that Act.

“Natural Environment” has the same meaning as defined in section 1 of the EPA;

"Nominally Separate Sewer(s)" mean Separate Sewers that also have connections from roof leaders and foundation drains, and are not considered to be Combined Sewers;

“Operating Authority” means, in respect of the Sewage Works, the person, entity or assignee that is given responsibility by the Owner for the operation, management, maintenance or Alteration of the Sewage Works or a portion of the Authorized System;

"Owner" means the owner of the Authorized System.

"OWRA" means the *Ontario Water Resources Act*, R.S.O. 1990, c. O.40;

"Partially Separated Sewer(s)" means Combined Sewers that have been retrofitted to transmit sanitary Sewage but in which roof leaders or foundation drains still contribute Stormwater inflow to the Partially Separated Sewer;

"Procedure F-5-5" means the Ministry document titled “F-5-5 Determination of Treatment Requirements for Municipal and Private Combined and Partially Separated Sewer System” (as amended from time to time);

“Sanitary Sewer(s)” means pipes that collect and transmit wastewater from residential, commercial, institutional and industrial buildings;

“Separate Sewer(s)” means pipes that collect and transmit sanitary Sewage and other Sewage from residential, commercial, institutional, and industrial buildings;

“Sewage” has the same meaning as defined in section 1 of the OWRA;

“Sewage Works” has the same meaning as defined in section 1 of the OWRA*;*

“Sewer” has the same meaning as in O. Reg. 525/98 under the OWRA;

"Significant Drinking Water Threat" has the same meaning as defined in section 2 of the CWA*;*

"Source Protection Plan" means a drinking water source protection plan prepared under the CWA;

“Spill(s)” has the same meaning as defined in subsection 91(1) of the EPA;

“Standard Operating Policy for Sewage Works” means the standard operating policy developed by the Ministry to assist in the implementation of Source Protection Plan policies related to Sewage Works and providing minimum design and operational standards and considerations to mitigate risks to sources of drinking water, as amended from time to time;

"Storm Sewer" means Sewers that collect and transmit, but not exfiltrate or lose by design, Stormwater resulting from precipitation and snowmelt;

“Stormwater” means rainwater runoff, water runoff from roofs, snowmelt and surface runoff;

“Stormwater Management Facility(ies)” means a Facility for the treatment, retention, infiltration or control of Stormwater;

“Stormwater Management Planning and Design Manual” means the Ministry document titled “Stormwater Management Planning and Design Manual”, 2003 (as amended from time to time);

“Stormwater Treatment Train” means a series of Stormwater Management Facilities designed to meet stormwater management objectives (e.g., Appendix A of ECA) for a given area, and can consist of a combination of MTDs, LIDs and end-of-pipe controls**;**

“Third Pipe Collection System” means Sewage Works designed to collect and transmit foundation drainage and/or groundwater to a receiving surface water or dry well;

“Uncommitted Reserve Hydraulic Capacity” means uncommitted reserve capacity as described in MECP’s Procedure “D-5-1 Calculating and Reporting Uncommitted Reserve Capacity at Sewage and Water Treatment Plants” (as amended from time to time);

1.0. INTRODUCTION

The Design Criteria establish the minimum design requirements for Alteration to a Municipal Sewage Collection System and Municipal Stormwater Management System to satisfy one of the conditions imposed by the Director in Environmental Compliance Approval (ECA) for a Municipal Sewage Collection System and ECA for a Municipal Stormwater Management System, authorizing future Alterations. The designers and proponents of such works are responsible to ensure that all the applicable federal and provincial requirements are incorporated in the design and construction of Sanitary Sewers, Storm Sewers, and forcemains. Where regulations and standards are referenced in this document, most recent version shall be used.

1.1. General Requirements

1.1.1. Alteration to an existing Municipal Sewage Collection System by adding, modifying, replacing, or extending existing sanitary or forcemains, and/or Appurtenances, is not permitted when such works;

1. Results in exceedance of hydraulic capacity of the downstream Municipal Sewage Collection System including Sewage pumping stations and Uncommitted Reserve Hydraulic Capacity of the receiving Sewage treatment plants;
2. Causes an Adverse Effect;
3. Any increase in Collection System Overflows and or deterioration of quality of the overflow discharge, that is not offset by measures; or
4. Adversely impacts the approved effluent quality of Sewage treatment Facilities, or its bypasses or overflows.

1.1.2. The existing Municipal Sewage Collection System may be altered by adding, modifying, replacing, or extending existing Sanitary Sewers or forcemains, Appurtenances, and other components of these systems that are pre-authorized in the ECA, subject to the following conditions;

1. The design for addition, modification, replacement, or extension of Sanitary Sewers, forcemains and/or Appurtenances;
    a. Has been prepared by a Licensed Engineering Practitioner;
    b. Has been designed to transmit but not to treat wastewater; and
    c. Satisfies or exceeds the minimum requirements specified in the Design Criteria.
2. Uncommitted Reserve Hydraulic Capacity calculations for the downstream Municipal Sewage Collection System and treatment Facilities including allowances for infiltration and inflow has been prepared and submitted by the proponent to the Owner with the supporting documentation as required by the Owner.
3. The Owner has a plan and process to forecast and track Uncommitted Reserve Hydraulic Capacity and verify the proposed Alteration of the system can be accommodated.
4. All required documentation detailed in this Design Criteria and/or in the ECA has been completed.

1.1.3. Alteration to an existing Municipal Stormwater Management System by adding, modifying, replacing, or extending existing Storm Sewers, and/or Appurtenances, is not permitted when such works;

1. Results in exceedance of hydraulic capacity of the downstream;
    a. Conveyance system;
    b. The receiving treatment / Stormwater Management Facilities;
2. Causes an Adverse Effect; or
3. Adversely impacts the approved effluent quality of Stormwater works.

1.1.4. The existing Municipal Stormwater Management System may be altered by adding, modifying, replacing, or extending existing Storm Sewers, Appurtenances, and other components of these systems that are pre-authorized in the ECA, subject to the following conditions;

1. The design for addition, modification, replacement, or extension of Storm Sewers, and/or Appurtenances;
    a. Has been prepared by a Licensed Engineering Practitioner;
    b. Satisfies or exceeds the minimum requirements specified in the Design Criteria; and
    c. Has been planned, designed and built to be consistent with the MECP's Stormwater Management Planning and Design Manual (March 2003).
2. All required documentation detailed in this Design Criteria and/or in the ECA has been completed.
3. Municipal Stormwater Management System should be designed using an integrated Stormwater Treatment Train approach used to minimize Stormwater management flows and reliance on end of pipe controls through measures including source controls, lot level controls, and conveyance techniques.

1.2. Design Considerations

1.2.1. All Sanitary Sewers, Storm Sewers, forcemains, maintenance holes, and chambers, shall be designed considering all relevant soil and hydrogeological conditions including groundwater elevations.

1.2.2. The design of all maintenance holes, chambers, and structures shall conform to all applicable requirements including, but not limited to: Occupational Health and Safety Act, Ministry of Labour Confined Space Guidelines and Fire Protection and Prevention Act.

1.2.3. All new maintenance holes and chambers shall be designed with explicit and documented consideration for future inspection, operation, and maintenance requirements.

1.2.4. All precast structures installed in frost-susceptible soils shall include necessary hardware to prohibit heave due to frost action unless alternative methods are employed to mitigate frost heaving.

1.2.5. Sewers, maintenance holes, and/or Appurtenances shall be avoided where possible in areas subject to flooding or in areas of high groundwater (regular and seasonal).

1.2.6. If Sewers, maintenance holes and/or Appurtenances are located in areas subject to flooding/high groundwater, Inflow and Infiltration reduction, and flotation prevention measures shall be included in the design.

1.2.7. The design shall include in the project specifications requirements for;

1. Mandatory inspection and testing as per Section 8 of this document; and
2. Adequate control of siltation and erosion during construction.

1.3. Protection of drinking water sources

1.3.1. An assessment of the proposed works shall be completed to determine if the works pose a Significant Drinking Water Threat and if they are, the design shall incorporate features that mitigate the threat to sources of drinking water, such as those included in:

1. Ministry's Standard Operating Policy for Sewage Works as amended from time to time; and
2. Source Protection Plan policies pertaining to the works.

Refer to Appendix I for Understanding Risks to Sources of Drinking Water.

1.4. Protection of Water Supplies

1.4.1. Sanitary Sewers, Storm Sewers, forcemains, and all associated Appurtenances and structures shall be designed with provisions to provide the required protection for drinking water supply systems in accordance with;

1. The MECP's F-6-1 Procedures to Govern Separation of Sewers and Watermains; and
2. Section 15 of the MECP's Watermain Design Criteria for Future Alterations Authorized Under a Drinking Water Works Permit.

2.0. DESIGN OF SANITARY SEWERS

2.1. Design Flows

2.1.1. Residential Flows

1. The average daily residential flows of 225 to 450 L/cap/day shall be used in the design for sizing the pipe.
2. Peaking factor can be calculated using either the Harmon Formula or Babbitt Formula. At minimum, a peaking factor of 2.0 shall be used in the design.

2.1.2. Commercial Flows

1. The minimum allowance for commercial flows shall be 28 m^3/ha/day. Actual flow monitoring data (covering at least 2 years) at the subject site or a similar site observed locally can be used.
2. The Sewage flows listed on Table 1 may be used in the design for individual commercial facilities, provided that the minimum flow capacity listed in 2.1.2.1 are maintained for the development.

2.1.3. Institutional Flows

1. Historical water use data at the subject site or a similar site (covering at least 2 years) of the facility or other similar facilities can be used to calculate average institutional flows. Where historical water use data is not available, the unit values for institutional flows listed in Table 1 can be used. The designer shall use professional judgement to select appropriate flow rate within the range.

2.1.4. Industrial Flows

1. Where available, actual sanitary flow monitoring data at the subject site or a similar site (covering at least 2 years) shall be used for accurate prediction of industry specific wastewater flows. Where actual flow data is not available, an average flow from 0.2 to 0.5 L/s/ha can be used.

2.1.5. Extraneous Flow (I&I)

1. A long-term (end-of-pipe life) peak inflow and infiltration (I&I) rate allowance of up to 0.28 L/s/ha shall be used in pipe sizing to maintain capacity throughout the designed life of the sewers.

Table 1 - Common Sewage Flowrates for Commercial and Institutional Uses

Description	Unit Sewage Flow (L/d)	Flow Unit Per
Shopping Centre (floor area in m^2)	2.5 – 5.0	Total floor area in m^2
Hospitals	900 – 1,800	Bed
Schools	70 - 140	Student
Travel Trailer Parks	340	Space (without water hook-ups)
	800	Space (with individual. water hook-ups)
Campgrounds	225 - 570	Campsite
Mobile Home Park	1,000	Parking space
Motels	150 - 200	Bed space
Hotels	225	Bed space

2.2. Friction Factors

2.2.1. Sanitary Sewers shall be designed using either the Chézy- Kutter, Darcy Weisbach, or Chézy-Manning's formula. Appropriate roughness coefficient shall be used according to the type of pipe used. The friction loss coefficient must be appropriate to the installed pipe, but not less than the equivalent of a Manning's equation "n" of 0.013 for all new smooth-wall Sewer pipes.

2.3. Pipe Diameters

2.3.1. The minimum size of the gravity Sewer in a Municipal Sewage Collection System shall be 200 mm in diameter (nominal pipe size). Sewer pipe 150 mm in diameter can be used if it is demonstrated in the design that there is no risk of clogging and the design is accepted by the Owner.

2.4. Flow Velocity

2.4.1. Gravity Sewers shall be designed with uniform slopes between the maintenance holes.

2.4.2. All gravity Sanitary Sewers shall be designed and constructed with slopes to provide at least 0.6 m/s of flow velocity, when flowing full to maintain solids in suspension.

2.4.3. In certain circumstances, such as rehabilitation/replacement of an existing Sewer where deepening of individual Sewer section will not be possible, design flow velocities of less than 0.6 m/s may be considered provided that appropriate measures are taken to facilitate frequent flushing and maintenance needs and the Owner accepts the increased maintenance requirements.

2.4.4. The maximum velocity in all Sanitary Sewers shall be less than or equal to 3.0 m/s at peak flows to minimize erosion.

2.5. Anchors/Restraints

2.5.1. Sanitary Sewers on 20 percent slope or greater shall be anchored securely with concrete anchors or equal.

2.5.2. Anchors and anchorage spacing shall be designed by a Licensed Engineering Practitioner based on Sewer material, anchor type and site conditions. Recommended maximum

anchorage spacing is 11 m on grades between 20 percent and up to 35 percent, 7.3 m on grades between 35 percent and up to 50 percent, and 4.9 m on grades that exceed 50 percent.

2.5.3. Where velocity in the Sanitary Sewers approaching or exceeding 3 m/s due to steep grades and providing a drop maintenance hole is not possible, receiving sewers shall be designed for protection against maximum scouring velocity and erosion control measures, that are acceptable to the Owner shall be taken.

2.6. Pipe Material

2.6.1. All material used in the addition, modification, replacement, or extension of Sanitary Sewers including pipes, fittings, valves, devices, and materials used for the rehabilitation shall meet all applicable quality conditions adopted by the Ontario Provincial Standards for Roads and Public Works and/or local municipal standards. Where applicable standards conflict, the more stringent standard shall apply.

2.6.2. Prior to specifying pipe material, soils shall be assessed for contamination and for the presence of compounds that may negatively impact the suitability of the proposed materials. Nitrile gaskets or equivalent shall be specified for soils contaminated with hydrocarbons unless soil remediation prior to construction provides satisfactory results.

2.6.3. If the material is used based on specific site conditions, the reasons for material selection shall be stated and location shall be identified in the record / as-built drawings.

2.7. Pipe Strength

2.7.1. The Sanitary Sewer pipe material selected for a particular application shall be able to withstand all the combinations of loading conditions to which the pipe is likely to be exposed, along with an appropriate safety factor.

2.8. Pipe Cover and Frost Protection

2.8.1. Sanitary Sewers shall be installed at sufficient depth (greater than local frost penetration) to prevent freezing. If this is not achievable, the Sewer shall be insulated to provide the required protection. Insulation must be designed or verified by a Licensed Engineering Practitioner or where available as per the local municipal standards acceptable to the Owner.

2.8.2. For Sanitary Sewers subject to traffic load, a loading factor in accordance with the regulations, codes, and by-laws of authorities having jurisdiction shall be considered for selecting depth of pipe cover. This includes but not limited to: Highway Bridge Design Code (for vehicular traffic), Railway Safety Act, and Transport Canada Act. Appropriate structural support shall be provided to the pipes as required.

2.8.3. Maximum pipe cover should be as per the manufacturer recommendations.

2.9. Sanitary Sewers and Maintenance Holes Installed Below Seasonally High Groundwater Table

2.9.1. Sanitary Sewer systems which are installed lower than 0.6m below the Seasonally High Groundwater Table (SHGWT) shall be designed to minimize infiltration.

1. The Sewer pipes, pipe joints, and connections shall be designed to withstand a pressure of at least 45 psi without leakage.
2. The sanitary maintenance holes shall be externally wrapped with Waterproof membrane placed externally around all precast joints, including joints below the maintenance hole frame and cover, with a minimum 300mm wide strip.
3. Buoyancy of Sewers and maintenance holes shall be considered in the design, and where required, adequate provision shall be made to prevent flotation.

2.9.2. Where the SHGWT is unknown, Sewers shall be designed with assumption that they are installed 0.6 m below SHGWT.

2.10. Sanitary Maintenance Holes

2.10.1. Maintenance holes shall be provided at the end of each Sewer line; at all changes in grade, size, or alignment; at all pipe intersections and/or at a distance not greater than 120 m for Sewers up to 400 mm in diameter, and 150 m for Sewers between 450 mm to 750 mm in diameter.

2.10.2. In circumstances where maintenance holes cannot be provided, an upstream maintenance hole is required at 30 m (max) from where a maintenance hole could not be placed to facilitate maintenance.

2.10.3. An additional straight-through maintenance hole with similar upstream and downstream sloped Sewers shall be provided between new subdivisions and the Municipal Sewage Collection System, or at other appropriate location(s) for the purposes of flow monitoring from new subdivisions. The maintenance hole must either include or allow for the insertion of flow monitoring equipment.

2.10.4. The minimum drop across maintenance holes shall be minimum 25 mm for straight runs and 50 mm for 90-degree bends. Alternately, Sewer grade may be maintained across maintenance holes provided minimum required flow velocity is maintained (as outlined in this document).

2.10.5. Where a smaller diameter Sewer line joins a larger one, the invert of the larger Sewer shall be lowered where practical, to maintain the same energy gradient, or the pipe obverts are matched.

2.10.6. A drop structure shall be provided for Sewers entering a maintenance hole at an elevation of 610 mm or more above the maintenance hole outlet pipe invert;

1. An external drop structure is recommended for all new maintenance holes. An internal drop structure can be used if;
    i. Accepted by the Owner;
    ii. There is adequate space to allow for internal drop structure and unobstructed maintenance access; and
    iii. The structure is provided with restraint straps or equivalent.
2. Where drop structure is not feasible, alternative methods of energy dissipation from falling flow and minimizing air entrainment and odors problems shall be specified.

2.10.7. Maintenance holes shall be located away from any route or ponding area. Grading around maintenance holes shall be benched to direct water away from the maintenance hole.

2.10.8. In cases where the sanitary maintenance hole cannot be located away from an overland flow route for a 25-year storm event or cannot be benched, an analysis must be completed to verify;

1. If the overland flow will submerge the maintenance hole. Watertight design, including water-tight covers, shall be specified for submerged sanitary maintenance holes, and
2. Where more than one consecutive sanitary maintenance hole requires sealing due to exposure to overland flow, appropriate ventilation shall be provided.

2.10.9. Frost straps (internal or external) shall be provided to hold maintenance hole sections together (at least two (2) between each section). External straps to extend vertically from top to bottom and for deep maintenance holes extended at least 1 m below frost depth.

2.10.10. Joints between maintenance hole sections, and inlet and outlet pipes shall be sealed with gasketed flexible watertight connections. Where works are cast-in-place, sealing is required only at the point of connection between individual components of the maintenance hole structures.

2.10.11. Maintenance holes shall be designed based on the pipe size, alignment, and inspection and maintenance needs. The minimum diameter of maintenance holes shall be 1200 mm (48 in). A minimum access diameter of 610 mm (24 in) shall be provided.

2.10.12. Safety platforms or alternate safety measures shall be employed for deep maintenance holes as per Occupational Health and Safety Act requirements and inspection, operation, and maintenance needs. Multiple platforms may be required based on the depth of the maintenance holes.

2.11. Inverted Siphons

2.11.1. Inverted siphons shall be designed with consideration of potential siltation, grease and debris accumulation, air locking, maintenance, and odor issues.

2.11.2. The minimum pipe size for inverted siphons shall be nominally 200 mm in diameter.

2.11.3. Pipes shall be sized such that a Self-Cleansing velocity between 1.1 m/s to 1.3 m/s is achieved at least once per day. Where the required velocities cannot be achieved alternate means of flushing shall be incorporated in the design.

2.11.4. Gravity drains or any other means of draining or dewatering the inverted siphon shall be incorporated to facilitate inspection and maintenance.

2.11.5. Air jumpers shall be sized to carry the required air flow between the inlet and outlet chambers. Maintenance measures for air jumpers shall be incorporated as required.

2.11.6. Inverted siphons shall be designed with at least two (2) parallel barrels to accommodate flow variations. If a double barrel siphon is not feasible, a single barrel inverted siphon is acceptable provided that additional arrangements are incorporated in the design to facilitate inspection, operation, and maintenance.

2.11.7. Inverted siphons shall be equipped with inlet and outlet chambers sized to facilitate inspection, operation, and maintenance.

2.11.8. Control valves/sluice gates shall be installed in inlet and outlet chambers especially on multi-barrel siphons to isolate or divert flows to each pipe.

2.11.9. Inverted siphons shall not be designed with sharp vertical or horizontal bends. The slope for the upward vertical leg shall be limited to 2:1 (H:V).

2.11.10. Ventilation is required at the Inlet and Outlet chambers.

2.12. Service Connections (Service Laterals)

2.12.1. All service connections shall be constructed to be watertight.

2.12.2. The minimum diameter for a service connection to main Sewer for gravity flow shall be 100 mm in diameter. Sanitary Sewer pipes shall be colour coded green to avoid cross connections. Color coding method includes pipe color, wrapping, demarcation tape, or stenciling.

2.12.3. Sanitary laterals and sanitary service connections shall be specified with a minimum 1% slope (2% slope is recommended).

2.12.4. Where required, the riser pipe on the sanitary service pipe should be installed at a maximum 1:1 slope where feasible, before transitioning to a nominally horizontal installation. The transition from the nominally horizontal section to the steep section should be completed with a long radius bend.

2.12.5. Cleanouts if installed, should be located at or near the property line to facilitate inspection, or as required by the local municipal standard.

2.12.6. Maintenance hole should be provided for commercial service connections, or residential service connection servicing more than five (5) buildings.

2.12.7. Tracer wire is recommended for service connections where feasible as determined by the design engineer.

3.0. DESIGN OF FORCEMAINS

3.1. Pipe Diameters

3.1.1. The minimum size for a Sewage forcemain shall be 100 mm in diameter.

3.1.2. A smaller diameter forcemain may be acceptable if it is used to maintain the minimum velocity in the forcemain (as outlined in this document). A grinder pump or equivalent shall be provided for such applications and Design Brief including detailed hydraulic calculations shall be prepared by a Licensed Engineering Practitioner.

3.2. Friction Factors

3.2.1. Forcemains shall be designed using Hazen-Williams formula or Darcy -Weisbach equation. Hazen- Williams formula is recommended for design of forcemains. Where data are not available, the forcemains shall be designed using the equivalent to Hazen-Williams C-factors listed in Table 2 for pipes made of traditional materials or their equivalent.

Table 2 - Hazen-Williams C-Factors

Material	C-Factor
Unlined Steel pipe, Concrete pipe	100
PVC, HDPE, lined ductile iron	120

3.3. Flow Velocity

3.3.1. Forcemains shall be designed for a cleansing velocity of at least 0.6 m/s.

3.3.2. The maximum velocity in the forcemains shall not exceed 3.0 m/s.

3.4. Anchors/Restraints

3.4.1. Restrained joints shall be installed at all tees, bends, end of forcemains, and connections for all forcemains. A Licensed Engineering Practitioner shall complete the calculation to determine the number of joints to be restrained beyond the bend, fitting, tee, etc.

3.4.2. In the case of non-restraining mechanical and/or slip-on joints, restraint shall be provided by adequately sized thrust blocks positioned at all plugs, caps, tees, line valves, reducers, wyes, and bends deflecting 22.5 degrees or more.

3.4.3. In designing thrust blocks or other restraint systems, transient pressures shall be added to the normal operating pressures when calculating the thrust forces.

3.5. Pipe Material

3.5.1. Forcemain material used in the addition, modification, replacement, extension, or rehabilitation including pipes, fittings, valves, devices, and other materials used shall meet the more stringent of quality standards adopted by Ontario Provincial Standards for Roads and Public Works or local Municipal standards.

3.5.2. Prior to specifying pipe material, soils shall be assessed for contamination and for the presence of compounds that may negatively impact the suitability of the proposed materials. Nitrile gaskets or equivalent shall be specified for soils contaminated with hydrocarbons.

3.5.3. If the material is used based on specific site conditions, the reasons for material selection shall be stated and location shall be identified in the record drawings.

3.6. Pipe Strength

3.6.1. The forcemain pipe material selected for a particular application shall be able to withstand, with a margin of safety, all the combinations of loading conditions to which the forcemain is likely to be exposed.

3.7. Pipe Cover and Frost Protection

3.7.1. Forcemains shall be installed at sufficient depth (greater than frost penetration) to prevent freezing. If this is not achievable, forcemains shall be insulated/or heat traced. Insulation/heat tracing shall be designed/verified by a Licensed Engineering Practitioner.

3.7.2. For forcemains subject to traffic loading, a loading factor in accordance with the regulations, codes and by-laws of authorities having jurisdiction shall be considered for selecting depth of pipe cover. This includes but not limited to: Highway Bridge Design Code (for vehicular traffic), Railway Safety Act, and Transport Canada Act. Appropriate structural support shall be provided to the pipes as required. If a protective sleeve is used, appropriate sleeve material shall be selected based on the site conditions.

3.7.3. Maximum pipe cover should be as per the manufacturer recommendations.

3.8. Termination

3.8.1. All forcemains shall be discharged to maintenance holes.

3.8.2. For flows greater than 30 L/s, transition maintenance holes shall be provided at forcemain discharge points to provide smooth flow transition into the receiving gravity Sewers.

3.8.3. The transition maintenance hole shall be designed based on the pipe size, alignment and inspection and maintenance needs. The minimum diameter of maintenance holes shall be 1200 mm (48 in). A minimum access diameter of 610 mm (24 in) shall be provided.

3.8.4. The forcemains shall enter the transition maintenance hole at a point not more than 0.3 m above the flow line. No other gravity Sewers shall enter the transition maintenance hole.

3.8.5. Protective coatings or corrosion resistant material shall be used in the maintenance holes to prevent deterioration due to presence of hydrogen sulfide or other corrosive chemicals.

3.8.6. The Sewer connecting the transition maintenance hole to downstream maintenance hole shall be sized to flow at half depth to ensure a smooth flow.

3.8.7. Safety platforms or alternative safety measures shall be incorporated in the designed for deep maintenance holes per Occupational Health and Safety Act and any other municipal requirements.

3.9. Identification

3.9.1. A Tracer Wire shall be installed for all non-metallic forcemains regardless of the size, identifier codes, or markings can be added to identify the use of pipe in conformance with local municipal standards. Where metallic pipe is used tracer wire shall be provided at the material transition point to ensure electrically conductive connection point for future detection.

3.10. Maintenance

3.10.1. All new forcemains longer than 150 m shall be provided with swab launching ports and/or flushing ports. Swab catching ports may be required.

3.10.2. Isolation valves shall be provided as required to facilitate maintenance. Non-return valves may be required when forcemains are connecting into a common forcemain.

3.10.3. Cleanouts/drain chambers shall be provided at low points of a forcemain.

3.11. Transient Pressures

3.11.1. A hydraulic transient analysis shall be undertaken as part of the design process considering the worst-case failure scenario involving the most critical pump and forcemain-in-service combination. The analysis shall be completed using hydraulic models based on the final sizes and layout of pumps and forcemains including locations of air/vacuum release valves. Based on the hydraulic transient analysis, provide devices, if necessary, to protect the forcemain such as, but not limited to, surge valves, surge tanks, etc.

3.11.2. The forcemains shall be designed so that pipes and joints are able to withstand the maximum operating pressure plus the surge pressure that would be created by stopping a water column moving at the higher of 0.6 m/s or the theoretical velocity in the forcemain.

3.11.3. The forcemains shall be designed such that pipes, joints, fittings, and valves are able to withstand full vacuum pressure.

3.12. Air and Vacuum Relief Valves

3.12.1. A combination of Sewage air and vacuum relief valves shall be placed at all high points in the forcemain to relieve air locking and to relieve negative pressures on forcemains.

3.12.2. At minimum, the Air/Vacuum relief valves shall conform to AWWA standard C512-15 Air Release, Air/Vacuum and Combination Air Valves for Water and Wastewater Service, as amended from time to time.

3.13. Drain Valves

3.13.1. Drain valves shall be placed at all low points in the forcemain to facilitate draining/cleaning.

3.13.2. Drain valves on the forcemain are to be flanged connections in valve chambers. Where possible, the valve chamber may be drained to the closest gravity Sanitary Sewer or maintenance hole or drained back into the wet well.

3.14. Service Connections

3.14.1. Minimum diameter of a forcemain for a service connection without grinder pumps shall be 100 mm in diameter.

3.14.2. A smaller diameter forcemain may be used for low flow applications provided that the grinder pump or equivalent is specified and the design brief including detailed hydraulic calculations are prepared by a Licensed Engineering Practitioner.

4.0. COMBINED SEWERS

4.1. Rehabilitation of Existing Combined Sewers

4.1.1. The design and rehabilitation of the Combined Sewer systems shall meet the requirements of the Ministry's Procedure F-5-5, Determination of Treatment Requirements for Municipal and Private Combined and Partially Separated Sewer Systems.

4.1.2. Sewers shall be planned, designed, installed, and operated to minimize or eliminate Combined Sewer Overflows.

4.1.3. New Combined Sewer systems are not permitted.

4.1.4. Addition or extension of an existing Combined Sewer is not permitted.

4.1.5. Rehabilitation, repair, and replacement of an existing Combined Sewer is permitted as per the conditions listed in the ECA.

4.1.6. Rehabilitation of existing Combined Sewer overflow structures is permitted including instrumentation and controls that are installed for the purpose of monitoring and reporting only.

4.1.7. Rehabilitation of existing CSO control structures is permitted including modifications that are intended only to improve the performance or optimize utilization of the existing control structures.

4.1.8. A Storm Sewer connection to a Combined Sewer is not permitted except for Combined Sewer separation project where the municipality plans a temporary storm connection to a combined system. This approach requires a detailed plan to disconnect and separate the Storm Sewer to a separated storm outlet according to an established schedule. Specifically, if it is demonstrated that such works will not result in an increase in CSO volume, frequency, duration, or by-pass of treatment during the schedule period.

4.2. CSO Detention Facilities

4.2.1. Construction of new CSO detention facility for an existing CSO control structure for the purpose of reducing volume, frequency, or duration of a CSO discharge and to improve quality of combined CSO discharges is permitted provided that;

1. Is not designed to replace an existing outfall to a watercourse;
2. Does not have a direct environmental discharge such as to watercourse, groundwater, or the ground from the detention structure;
3. Is controlled by an existing CSO control structure; and
4. It is demonstrated in a design brief by a Licensed Engineering Practitioner that such works has structural integrity to function as intended/designed.

5.0. STORM SEWERS

5.1. Design of Storm Sewers

5.1.1. Only Stormwater, drainage from foundations and roads, or LIDs shall be accepted or collected by Storm Sewers.

5.1.2. Sanitary Sewage or combined Sewage shall not be accepted or collected by Storm Sewers or transmitted or directed to a Stormwater works.

5.1.3. Storm sewers shall be designed, using the most recent rainfall intensity, duration, and frequency (IDF) curves available from the respective municipality for which the sewers are to be constructed. If the municipality does not have access to current IDF curves, adjacent jurisdictions shall be consulted for IDF curves, and the most stringent values shall be used in design.

5.1.4. In the design of conveyance drainage system, local climate data is to be used to establish design storm frequency criteria, at a 2-year return design storm or greater storm event can be used for minor system design.

5.1.5. Inlet times shall be calculated based upon the overland flow route modeled under fully developed system conditions as per the Official Plan.

5.1.6. Storm Sewer which are installed below seasonally high groundwater table shall be designed to minimize infiltration.

5.1.7. Storm Sewers design shall be verified (major system and minor system capacity analysis) accounting for the captured flows that enter the Storm Sewers (minor system) through inlets and the flow remaining at the surface (major system) at minimum under the following conditions;

1. No inlet capacity restriction; and
2. 50% inlet capacity restriction at depressions and roadway sags.

Maximum depths of flows at the surface and maximum hydraulic grade lines in the Storm Sewers shall be verified for up to the 100-year design storm.

5.2. Runoff Calculations

5.2.1. The peak rate of runoff from an area may be calculated using the following formula:

$$Q = 2.78\ C \cdot I \cdot A$$

Where Q is the Peak flow in liters per second, A is the area in hectares, C is run-off coefficient (dimensionless), and I is average rainfall in mm per hour for a duration equal to the time of concentration for a particular storm frequency.

5.2.2. Hydrologic and hydraulic simulation models can be used for systems to verify the capacity of the systems serving small or large areas or involving treatment and/or storage systems.

5.2.3. A Licensed Engineering Practitioner shall select the appropriate “C” values based on site conditions. The range of runoff coefficients shown in Table 3 may be used for design purposes.

Table 3 - Runoff Coefficients

Source	Runoff Coefficient (C)
Asphalt, concrete, roof areas	0.90-1.00
Grassed areas, parkland	0.15-0.35
Brick Roads	0.7-0.85
Sandy Soil	0.05-0.25
Playgrounds	0.2-0.35
Gravel	0.6-0.7
forest and dense wooded areas	0.10–0.25
Permeable pavements	0.15 to 0.25

5.2.4. For calculating runoff for less frequent, high intensity storms (e.g., 50 or 100-year storm) for particular type of area in Table 3, upper values of the range shall be used. The lower value of the range may be used for shorter (e.g., 2- or 5-year storm) recurrence interval storms under conditions of moderate to flat slopes. For urban areas the runoff coefficient may be increased to suit urban conditions.

5.3. Friction Factors

5.3.1. Storm Sewers shall be designed to transmit the required capacity when pipe is flowing full. Storm Sewer capacities can be calculated using the Manning's equation or Darcy–Weisbach equation. If Manning's equation is used for the roughness coefficient (n) as specified by the manufacturer or as listed in Table 4 or equivalent may be used for all new pipes.

Table 4 - Manning's Roughness Coefficient (n) for New Pipes

Pipe Material	Roughness Coefficient (n)
Smooth-walled pipe materials (HDPE, PVC, Concrete)	0.013
Corrugated metal pipe	
Plain Pipe	0.024
Paved Invert	0.020

5.4. Pipe Diameter

5.4.1. The minimum size of the Storm Sewer shall be 250 mm in diameter. For Storm Sewer laterals, the minimum service connections shall be 100 mm diameter color coded white. Color coding method includes pipe color, wrapping, demarcation tape, or stenciling.

5.5. Flow Velocity

5.5.1. The minimum flow velocity in the Storm Sewer shall be 0.75 m/s. Velocities in Storm Sewers shall not exceed 6 m/s.

5.5.2. Additional protection against erosion, scouring, and pipe displacement must be provided by a Licensed Engineering Practitioner where flow velocities exceed 4.5 m/s.

5.5.3. In certain circumstances, such as rehabilitation/replacement of an existing Sewer where deepening of individual Sewer section will not be possible, design flow velocities of less

than 0.75 m/s may be considered provided that appropriate measures are taken to facilitate frequent flushing and maintenance needs and the Municipality accepts the increased maintenance requirements.

5.6. Anchors/Restraints

5.6.1. Storm Sewers on 20 percent slope or greater shall be anchored securely with concrete anchors or equal.

5.6.2. Anchors and anchorage spacing shall be designed by a Licensed Engineering Practitioner based on Sewer material, anchor type, and site conditions.

5.6.3. Where velocity in the Storm Sewers approaching or exceeding 3 m/s due to steep grades and providing a drop maintenance hole is not possible, Sewers shall be designed for protection against maximum scouring velocity and erosion control measures, acceptable to the Owner shall be taken.

5.7. Pipe Material

5.7.1. All material used in the addition, modification, replacement, or extension of Storm Sewers including pipes, fittings, valves, and devices and materials used for the rehabilitation shall meet all applicable quality adopted by the Ontario Provincial Standards for Roads and Public Works and/or local municipal standards. Where applicable standards conflict, the more stringent standard shall apply.

5.7.2. Prior to specifying pipe material, soils shall be assessed for contamination and for the presence of compounds that may negatively impact the suitability of the proposed materials. Nitrile gaskets or equivalent shall be specified for soils contaminated with hydrocarbons.

5.7.3. If the material is used based on specific site conditions, the reasons for material selection shall be stated and location shall be identified in the record/ as-built drawings.

5.8. Pipe Strength

5.8.1. The Storm Sewer pipe material selected for a particular application shall be able to withstand all of the combinations of loading conditions to which the pipe is likely to be exposed along with an appropriate safety factor.

5.9. Pipe Cover and Frost Protection

5.9.1. Storm Sewers shall be installed at sufficient depth (greater than frost penetration) to prevent freezing, if this is not achievable, Sewers shall be insulated. Insulation must be designed/verified by a Licensed Engineering Practitioner.

5.9.2. For Storm Sewers that are subject to traffic loading, a loading factor in accordance with the regulations, codes and by-laws of authorities having jurisdiction shall be considered for selecting depth of pipe cover. This includes but not limited to: Highway Bridge Design Code (for vehicular traffic), Railway Safety Act, and Transport Canada Act. Appropriate structural support must be provided to the pipes as required.

5.9.3. Maximum pipe cover should be per the manufacturer recommendations.

5.10. Storm Maintenance Holes

5.10.1. Maintenance holes shall be provided at each change in alignment, pipe size, grade, material, and at all pipe junctions. For blind connections, an upstream maintenance hole at a distance of 30 m (max) is required to facilitate maintenance. Pre-manufactured bends may be acceptable if maintenance access is provided and is acceptable to the Owner.

5.10.2. Maintenance hole spacing depends on pipe size; spacing shall be in conformance to local municipal design guidelines. Where municipal design guidelines do not exist, the maximum spacing as listed in Table 5 should be used.

Table 5 - Maintenance Hole Spacing

Sewer Diameter (mm)	Maximum Spacing (m)
250 to 975	110
1050 to 1350	130
1500 to 1650	160
1800 and above	305

5.11. Catch Basins

5.11.1. Catch basins shall be provided at adequate intervals to ensure that the drainage is intercepted up to the capacity of the Storm Sewer.

5.11.2. Street catch basin spacing will vary with the street width, grade and cross fall, the location of pedestrian crossing points, intersections, low points, location of sanitary maintenance holes and driveway depressions. Maximum Catch basin spacing shall be per Table 6.

Table 6 - Catch Basin Spacing

Road Gradient (%)	Maximum Spacing (m)
0 to 3	110
3.1 to 4.5	90
Over 4.5	75

5.11.3. The minimum diameter of the catch basin lead is 250 mm and the minimum of 1% slope shall be provided for a catch basin lead.

5.12. Inverted Siphons

5.12.1. Inverted siphons shall be designed with consideration of potential siltation and air locking.

5.12.2. Inverted siphons shall be designed with water-tight joints, and to withstand hydrostatic pressure.

5.12.3. Gravity drains or any other means of draining or dewatering the inverted siphon shall be incorporated to facilitate inspection and maintenance.

5.12.4. The minimum pipe size for inverted siphons shall be nominally 250 mm in diameter.

5.12.5. Appropriate cover shall be provided above the inverted siphon based the type of crossing structure.

5.12.6. Pipes shall be sized such that a self-cleansing velocity between 1.1 m/s to 1.3 m/s is achieved in 25 mm storm event (First Flush). Where the required velocities cannot be achieved alternate means of flushing shall be incorporated in the design.

5.12.7. Inverted siphon shall be designed with at least two parallel barrels of same size, each capable of transmitting the design flowrate. Single barrel inverted siphons are acceptable provided that additional arrangements are incorporated in the design to facilitate inspection, and maintenance.

5.12.8. Inverted siphons shall be equipped with inlet and outlet chambers sized to facilitate inspection and maintenance.

5.12.9. Control valves/sluice gates shall be installed in inlet and outlet chambers especially on multi-barrel siphons to isolate or divert flows to each pipe.

5.12.10. Inverted siphons shall not be design with sharp vertical or horizontal bends, the slope for the upward vertical leg shall be limited to 2:1 (H: V).

5.13. Service Connections (Service Laterals)

5.13.1. The minimum diameter for a service connection shall be 150 mm in diameter.

5.13.2. Storm Sewer pipes shall be colour coded white to avoid cross connections. Color coding method includes pipe color, wrapping, demarcation tape, or stenciling.

5.13.3. Tracer wire is recommended for service connections where feasible as determined by the design engineer.

6.0. Third Pipe Collection System

6.1.1. Third Pipe Collection System shall be designed to collect water only from the foundation drains.

6.1.2. Foundation drain discharge collection system shall not receive water from any sites that are contaminated or suspected to be contaminated unless;

1. Environmental site assessment is completed to confirm that site is free from contamination;
2. Remediation work is undertaken prior to acceptance by the system; or
3. Pretreatment is in place to achieve acceptable results.

6.1.3. Foundation drain collection pipes shall be installed at sufficient depth (greater than frost penetration) to prevent freezing. If this is not achievable due to site specific condition, the pipes shall be insulated to provide the required protection.

6.1.4. The minimum size of the pipe in the foundation drain collection system shall be 150 mm in diameter (nominal pipe size).

6.1.5. The minimum slope for the gravity pipes within the foundation drain collection system shall be 1% where feasible.

6.1.6. Maintenance holes shall be provided for foundation drain collection system as required, maintenance hole spacing shall not be more than 150 m.

6.1.7. All material used in the foundation drain Sewers including pipes, fittings, valves, devices, shall meet all applicable quality standards adopted by the Ontario Provincial Standards for Roads and Public Works and/or local municipal standards. Where applicable standards conflict, the more stringent standard shall apply.

7.0. Documentation

7.1.1. The required documentation specified here in this document and in the ECA shall be completed.

7.1.2. A Design Brief shall be prepared by a Licensed Engineering Practitioner to demonstrate the proposed design is in conformance with all the applicable requirements of the Design Criteria and complies with all applicable Ministry policies, guidelines, and regulations. At minimum, the Design Brief shall include; hydraulic calculations; approval requirements, and completed pipe data form PIBS 6238e; additionally, the design brief shall include but not limited to the following for:

1. Sanitary Sewers/forcemain/conveyance ditches/swales;
    i. Hydraulic design sheets (applicable only to Sewers);
    ii. A design report or equivalent detailing the engineer's design decisions and rationale, especially where high groundwater and/or other inflow and infiltration risk factors exist.
    iii. "Forcemain or siphon: contingency plans for possible overflows (applicable to forcemain or siphon only)".
2. Municipal Stormwater Management System;
    i. Stormwater management report (including lot level and conveyance controls);
    ii. A description of the water quality and quantity criteria;
    iii. Hydraulic performance of the system verifying Storm Sewer capture rates and major and minor system capacities;
    iv. "Oil / grit separators: design brief, calculations and manufacturers specifications (applicable to oil / grit separators only)".
3. Sewage pumping stations;
    i. Buoyancy calculations; forcemain hydraulic calculations; assessment of transient pressures; wet well and emergency storage tank sizing; design flows and firm capacity; headworks;
    ii. Electrical systems including standby power; controls and instrumentation description including alarms;
    iii. HVAC systems; and hazard ratings throughout station - risk assessment; and
    iv. Contingency plans for Emergency Situations.

7.1.3. The forms referenced in the Environmental Compliance Approvals (ECAs) for Sewage and Stormwater are available in the Central Forms Repository at www.forms.ssb.gov.on.ca.

8.0. Inspection and Testing for Sanitary Sewers, Storm Sewers and Forcemains

8.1. General Requirements

8.1.1. All new and replaced Sanitary Sewers, forcemains, maintenance holes, connections and chambers shall be inspected and tested to ensure integrity of the installed material for water tightness prior to placing into service.

8.1.2. All inspections and testing shall be performed as specified here in this document.

8.1.3. Inspection and testing plans including; procedure, equipment, schedule, safety requirements, and emergency response plan shall be submitted to the Owner/Operating Authority at least two (2) weeks or as required by the Owner/Operating Authority prior to the inspection or testing. Plans must be accepted by the Owner prior to proceeding with the inspection or testing.

8.1.4. The Owner and the Operating Authority shall be notified and a confirmation of receipt shall be acquired at least five (5) business days or otherwise required by the Owner/Operating Authority prior to inspection or testing.

8.1.5. All inspection reports and test results shall be provided to the Owner in a format (e.g., printed copies, PDF copies and digital files) specified by the Owner or the Operating Authority.

8.1.6. A single testing plan can be used for similar tests on the same project; however, each test shall be recorded separately.

8.1.7. Seasonal variation (e.g., spring freshet) on groundwater conditions shall be considered on selecting appropriate testing method.

8.1.8. In special circumstances, specific inspection and testing requirements may apply, refer to MECP's Watermain Design Criteria for Future Alterations Authorized Under a Drinking Water Works Permit for additional inspection and testing requirements for Sanitary Sewers, forcemains, and associated Appurtenances when;

1. Installed within areas the works would pose a Significant Drinking Water Threat; and
2. If the required separation distance from watermains and associated Appurtenances cannot be achieved.

8.2. Inspections

8.2.1. All new Sanitary Sewers including connections, Storm Sewers, and associated Appurtenances shall be inspected to confirm alignment and to ensure that the Sewer pipe is free from obstructions, debris, and defects.

8.2.2. All maintenance holes/access structures shall be inspected for any defects, leaks, debris, and to ensure proper benching.

8.2.3. Acceptable inspection methods for Sanitary Sewers, Storm Sewers, and maintenance holes include;

1. Visual Inspections as per OPSS.MUNI 433;
2. Closed-Circuit Television (CCTV) Inspection as per OPSS.MUNI 409;
3. Zoom Camera Inspections as per OPSS.MUNI 432;
4. Sonar Inspections as per OPSS.MUNI 435; and
5. Laser Inspections as per OPSS.MUNI 434.

8.2.4. All new, replaced, and rehabilitated Sanitary Sewers, Storm Sewers, and maintenance holes shall be video inspected to evaluate the physical condition and to identify any obstructions or defects. Any issues identified in the inspections shall be corrected and the respective pipe segments and maintenance holes shall be re-inspected.

8.2.5. Sonar inspections can be used for Sanitary Sewers, and Storm Sewers under submerged and partially submerged conditions.

8.2.6. Laser inspections are recommended for more accurate measurement of defects and deflection in the Sanitary Sewers and Storm Sewers.

8.3. Leakage Testing

8.3.1. Leakage Test shall be performed on all new Sanitary Sewers and maintenance holes to ensure integrity of the conveyance system.

8.3.2. Prior to performing a leakage test, both active and inactive service connections and stubs shall be identified using dye testing or other equivalent methods.

8.3.3. All service laterals shall be plugged using plugs designed to withstand test pressures, plugs shall be suitably braced for additional safety. All inactive service connections shall be sealed.

8.3.4. Pipe sections and associated components that are subject to pressure testing shall be fully restrained against movements in the event of failure. Component that are not intended to be pressurized shall be isolated.

8.3.5. Prior to leakage testing potential risks and hazards shall be identified and appropriate safety measure shall be taken. The procedure shall conform to all applicable health and safety requirements, including, but not limited to: Occupational Health and Safety Act, and Fire Protection and Prevention Act.

8.3.6. The following are acceptable leakage tests for Sanitary Sewers and maintenance holes:

1. Low Pressure Air Testing;
2. Water (Hydrostatic) Testing;
3. Vacuum Testing.

8.3.7. Groundwater elevations shall be considered for selection of the appropriate testing method.

8.3.8. Low pressure air test is not recommended when groundwater elevation is 600 mm or greater above the crown of the pipe being tested at the time of testing. Where groundwater elevation is less than or equal to 600 mm test pressure shall be adjusted to compensate for ground water pressure.

8.3.9. Low pressure air testing equipment shall include a pressure relief valve set to 9 psi (max) to avoid over pressurizing.

8.3.10. Low pressure air testing procedure shall conform to:

1. OPSS.MUNI 410;
2. ASTM F1417; or
3. ASTM C924M.

8.3.11. Water test procedure shall conform to:

1. OPSS.MUNI 410; or
2. ASTM C 969.

8.3.12. Vacuum testing procedure shall conform to:

1. ASTM C1244/C1244M

8.3.13. Clean water shall be used for hydrostatic testing. Water used in the hydrostatic testing shall be disposed as per all the applicable requirements.

8.3.14. If a segment of the system fails during leak testing, source of leakage shall be identified, and all defective material shall be repaired or replaced to the satisfaction of the Owner. The repaired or replaced sections shall be retested until results acceptable to the Owner are obtained. During retesting, maintenance holes shall be tested separately to pipe Sewers.

8.4. Deflection Testing

8.4.1. A deflection test shall be completed for all new flexible Sanitary Sewers and Storm Sewers at least 30 calendar days after backfilling but prior to paving.

8.4.2. Pipe segments failing the deflection test shall be removed and replaced.

8.4.3. Mandrel testing and laser profiling are acceptable tests for pipe deflection testing.

8.4.4. Mandrel test shall be performed in accordance with OPSS.MUNI 438.

8.4.5. Laser profiling shall conform to OPSS. MUNI 434.

8.4.6. Equipment used to perform Mandrel tests shall be specifically designed for the pipe material being tested.

8.5. Hydrostatic Testing

8.5.1. Hydrostatic testing shall be performed to all new and rehabilitated/repaired forcemains in accordance with OPSS.MUNI 412 (Ontario Provincial Standards Specification, published by Ontario Ministry of Transportation) at a minimum pressure of 1.5 times the maximum operating pressure.

8.5.2. Water used in the hydrostatic testing shall be disposed to Sanitary Sewers as per all the applicable requirements for disposal.

8.5.3. The maximum pressure shall be measured and recorded at the lowest point along the length of the pipe subject to testing.

APPENDIX I

Understanding Risks to Sources of Drinking Water

- Components of Sewage systems may present a risk to sources of drinking water, and therefore be subject to Source Protection Plans made under the Clean Water Act.
- Whether you are designing a new Municipal Sewage Collection System, expanding an existing system, or conducting normal operations and maintenance, it is important to be able to identify which components of your system (Sanitary Sewers, pumping stations, holding tanks, etc.) and the location where they may pose a significant risk, in order to plan and implement risk management measures as well as comply with any requirements for drinking water source protection within the ECA.
- Under the Clean Water Act, sources of water that are accessed by municipal drinking water systems are protected from threats to drinking water quality and quantity.
- A total of 22 specific activities are prescribed as **Drinking Water Threats** in Ontario Regulation 287/07, section 1.1. This includes "*the establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage*."
- The risk level of a prescribed drinking water threat is determined in accordance with:
    i. The **Directors Technical Rules** established under the Clean Water Act which set out the methods for delineating the shape and size of vulnerable areas (including wellhead protection areas (WHPA) and intake protection zones (IPZ) around municipal systems), determining the intrinsic vulnerability within those areas, and assessing the risk posed by drinking water threats.
    ii. The **Tables of Drinking Water Threats** (chemical and pathogen tables for water quality) identify the specific circumstances under which a drinking water threat poses a low, moderate, or significant threat to drinking water sources. The Tables of Drinking Water Threats are organized by subcategories of activities for the prescribed threats in O. Reg. 287/07, including different types of Sewage Works, and are available at Ontario.ca as well as through an interactive threats look-up tool.
- Activities may also be a Significant Drinking Water Threat if they are associated with a chemical or pathogen identified as a drinking water issue within an **issue contributing area** (ICA) in the Assessment Report.
- Activities may also be a Significant Drinking Water Threat if they occur within an **event-based area** (EBA) that represents an area modelled for Spills that would reach a surface water intake during extreme storm events (e.g., Sanitary Sewer trunk breaks, or wastewater treatment plant disinfection failure).
- The vulnerable areas and vulnerability scores for each source protection area are listed and mapped in local assessment reports and Source Protection Plans and available through the provincial Source Protection Information Atlas.
- If the Sewage Works are located in an area where they may pose a significant threat to drinking water sources (WHPAs, IPZs, ICAs, or EBAs), Source Protection Plan policy may apply.
- For additional information on Source Protection Plans and resources that can support the identification of threats to sources or drinking water, you may also refer to guidance from MECP and your local conservation authority.