



Neoen is a leading independent power producer of exclusively renewable energy, including solar and wind power, and battery energy storage.

We have a portfolio capacity of 8.9-gigawatts (GW) in operation or under construction across four continents. Our develop-to-own strategy means that we are around for the long-term.

Neoen has an active solar plant, Fox Coulee Solar Farm, in Starland County, Alberta, and several projects in development in Canada.



- Tara BESS, formerly Grey Owl Storage, is a 400-megawatt (MW), 1600 MW-hours (MWh) battery energy storage system (BESS) proposed for development on 39 Concession Road 4 in Arran-Elderslie, approximately 5-kilometers (km) southeast of the Village of Tara.
- Neoen Ontario BESS 1 Inc. (Neoen) is leading development of Tara BESS.
- Tara BESS was awarded a 20-year energy storage contract by Ontario's Independent Electricity System Operator (IESO) in May 2024, in the IESO's LT1 procurement, under which Neoen will receive payment in exchange for providing 400 MW of capacity at a rate established at the time of procurement.
- The contract does not permit an increase in BESS capacity or expansion of the project to include another renewable technology, such as solar.
- Tara BESS will be decommissioned within 18 months of the contract end date, unless the contract is extended by the IESO.

- Tara BESS will play a critical role in meeting Ontario's projected energy needs by providing 400 MW of capacity and 1,600 MWh to the grid (equivalent to the daily energy consumption of approximately 64,000 households in Ontario^{*}).
- IESO forecasts a 75% increase in Ontario's energy demand by 2050, which means an additional 111-terawatt-hours (TWh) of energy is needed by 2050 to meet projected demand (1 TWh = 1 million MWh).^{**}
- Tara BESS is one of 10 energy storage contracts awarded in the LT1 procurement, collectively totaling 1,784 MW.

^{*}Based on a 25 kWh/day household electricity consumption.

^{**}Ontario's Affordable Energy Future – Minister's Message.

IESO'S ANNUAL PLANNING OUTLOOK (APRIL 2025)

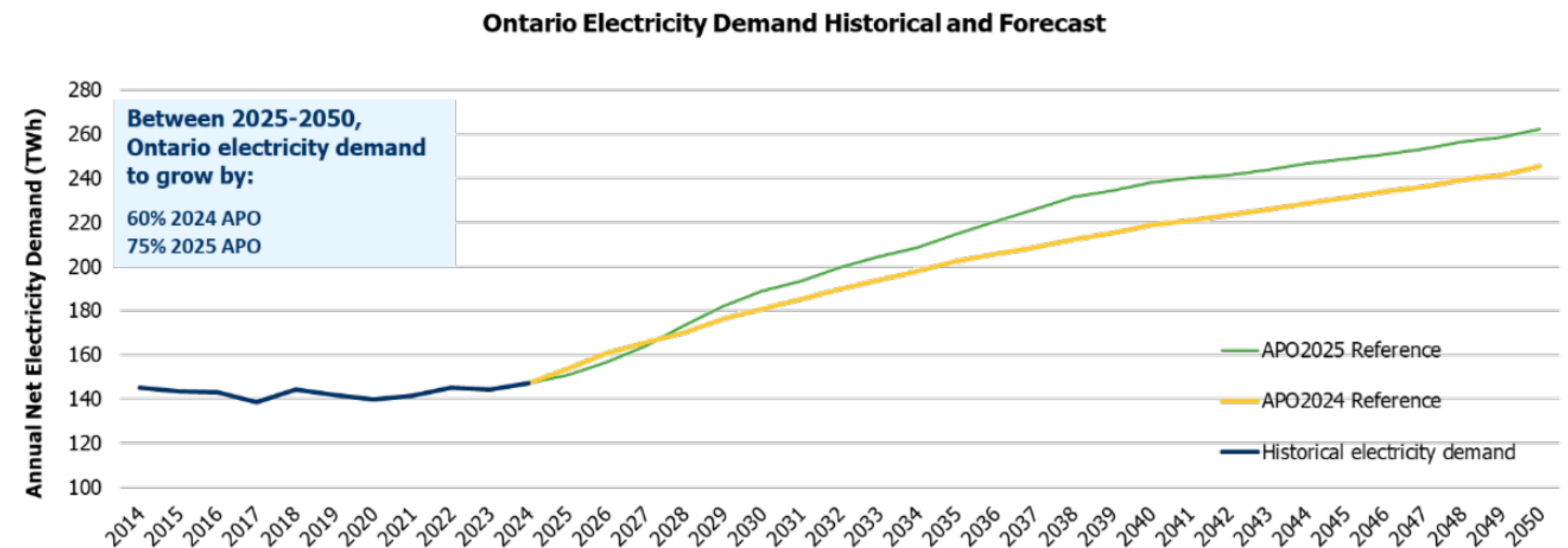
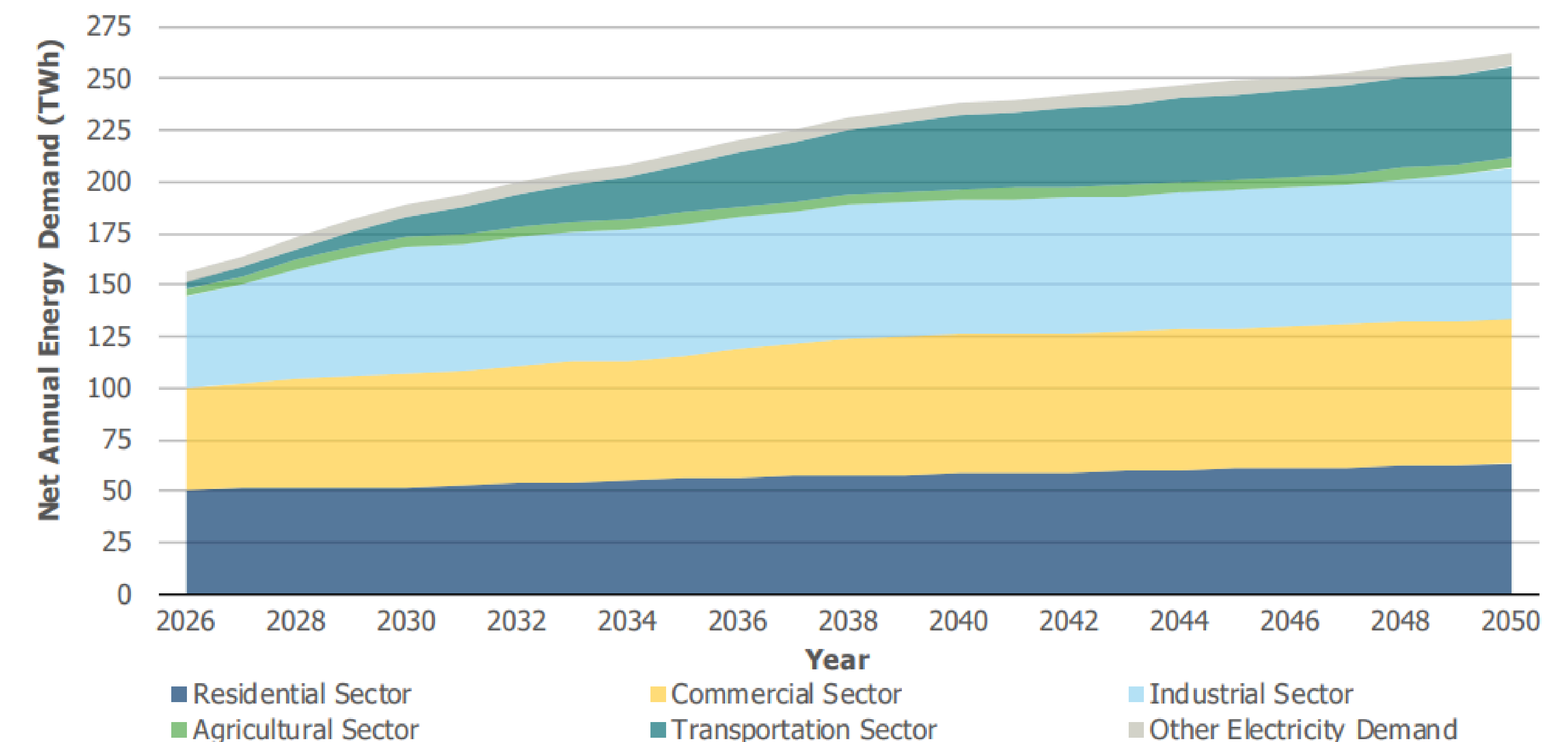


Figure 2 | Annual Energy Demand



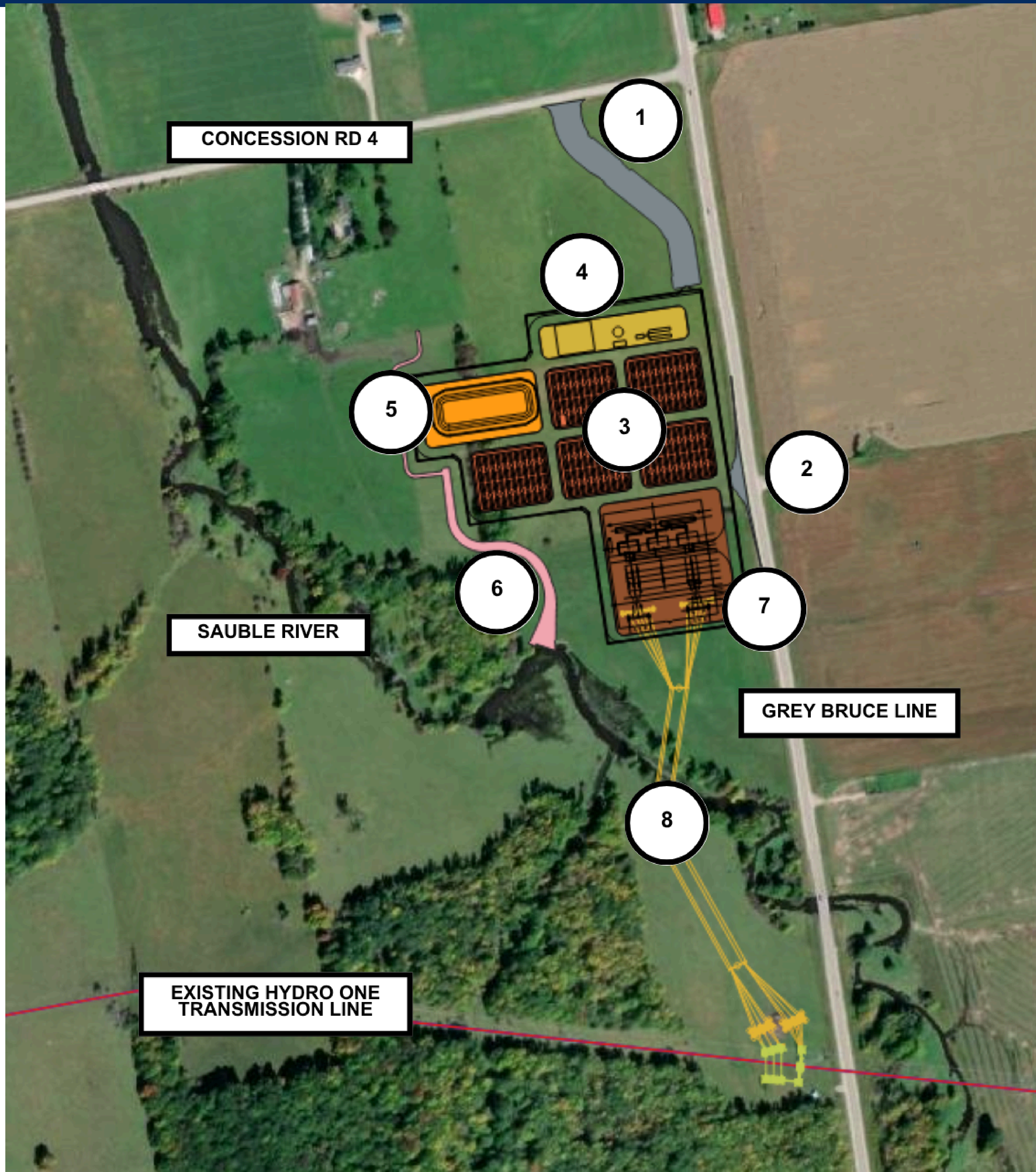
- Tara BESS will add 400 MW of capacity to Ontario's power grid.
- Tara BESS will be capable of providing ancillary services such as frequency and voltage support, and virtual inertia.
- BESS maximize the usefulness of energy produced along a transmission line by storing energy during low demand periods and discharging energy when demand rises.
- BESS can help restore power sooner than traditional generating sources in the case of an outage.
- Tara BESS will generate 200+ jobs at peak construction.

- Tara BESS will generate **an estimated \$130,000 in annual municipal tax revenues**, plus:
 - Neoen will enter into a Community Benefits Agreement with the Municipality of Arran-Elderslie as part of its BESS Policy (subject to project approval).
 - Under the Planning Act, a host municipality may apply a 4 percent Community Benefits Charge.
- **\$100,000 annual Community Benefits Fund** to support local initiatives, commencing at operations and continuing each year of operations.
 - Proposals from the community will be accepted and reviewed by a Local Advisory Committee.
- **\$50,000 in annual benefit-sharing with residential neighbours** in the immediate project vicinity, commencing at construction and continuing each year of operations.
- Rightsholder benefit-sharing.
- Employment and supplier opportunities.
- Local art installation.



TARA BATTERY

Tara BESS Proposed Layout



TARA BESS PROPOSED LAYOUT

1. Primary Entrance
2. Secondary Entrance
3. 420 Battery Containers*
4. Operations & Maintenance Buildings**
5. Retention Pond
6. Drainage (Vegetated Swale)
7. 230 kV Substation
8. Transmission Line and Structures

Total Footprint: ~22 acres.

Note: 200+ trees and shrubs are proposed along the north and east perimeters of the project lands.

*Containers are organized into five clusters with 7-7.5 m acoustic barrier walls along the west and north sides

**The cistern, water tank, and sewer tank will be subsurface.

TARA BATTERY Tara BESS Conceptual Rendering – Grey Bruce Line View

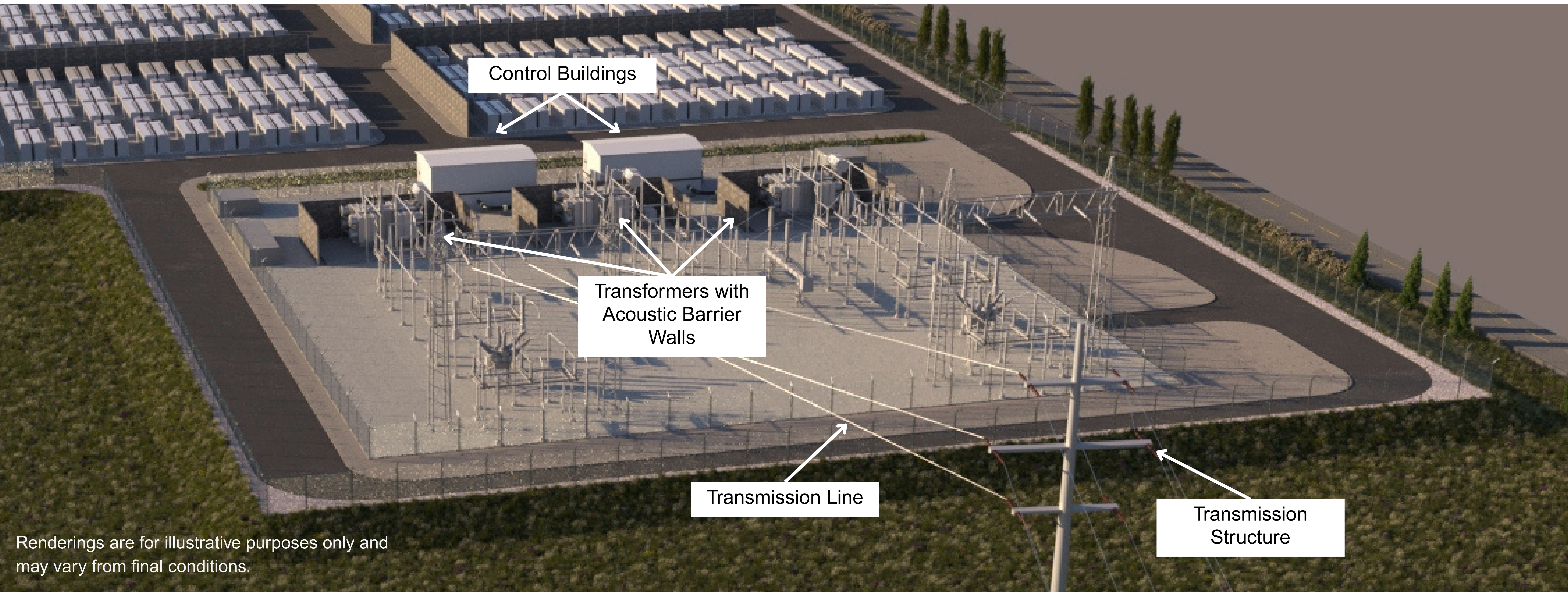


Renderings are for illustrative purposes only and may vary from final conditions.



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- 230-kilovolt (kV) substation comprised of:
 - 3 - 220-mega volt ampere, high-voltage transformers (two operational and one back-up) with each with 7 m acoustic barrier walls along the east, north, and west sides.
 - 2 - control buildings
 - Circuit breakers
 - Disconnect switches
 - Lightning protection
 - Busbars
 - Site lighting and fencing
- Steel transmission structures will carry approximately 500 m of overhead transmission line from the substation to Hydro One's existing high-voltage line at the south end of the site.



Renderings are for illustrative purposes only and may vary from final conditions.

How a Standalone BESS Works

A - Battery Containers

- Thousands of battery cells in steel containers
- Charge and discharge electricity to-and-from an electrical grid

C - Transformer Station

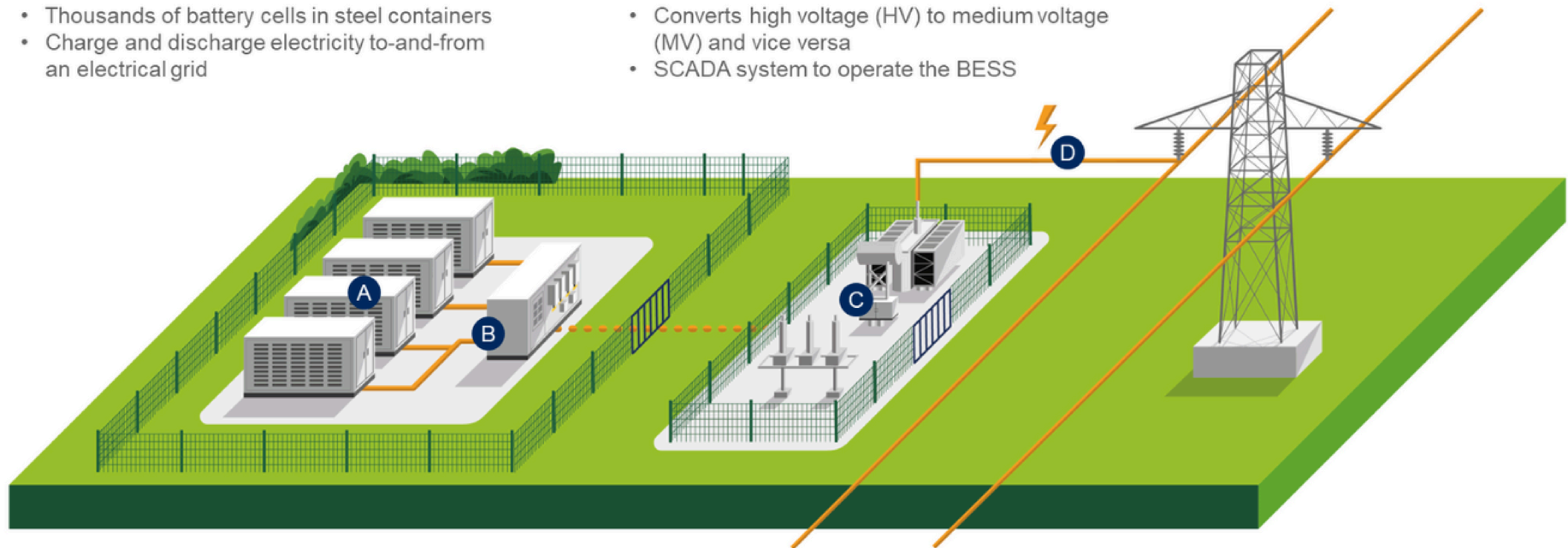
- Converts high voltage (HV) to medium voltage (MV) and vice versa
- SCADA system to operate the BESS

B - Inverter

- Converts direct current (DC) to alternating current (AC) and vice versa

D - Transmission Lines

- Transmission lines move electricity to-and-from the BESS
- Steel structures hold the lines overhead
- Electricity travels to-and-from the grid



- Conditions necessary to host a BESS facility include:
 - Landowner willingness.
 - Suitable terrain (a relatively flat site).
 - Proximity to demand.
 - Proximity to transmission lines (with capacity to host a BESS).
 - Construction feasibility/site accessibility.



TARA BATTERY Maintaining the Floodplain

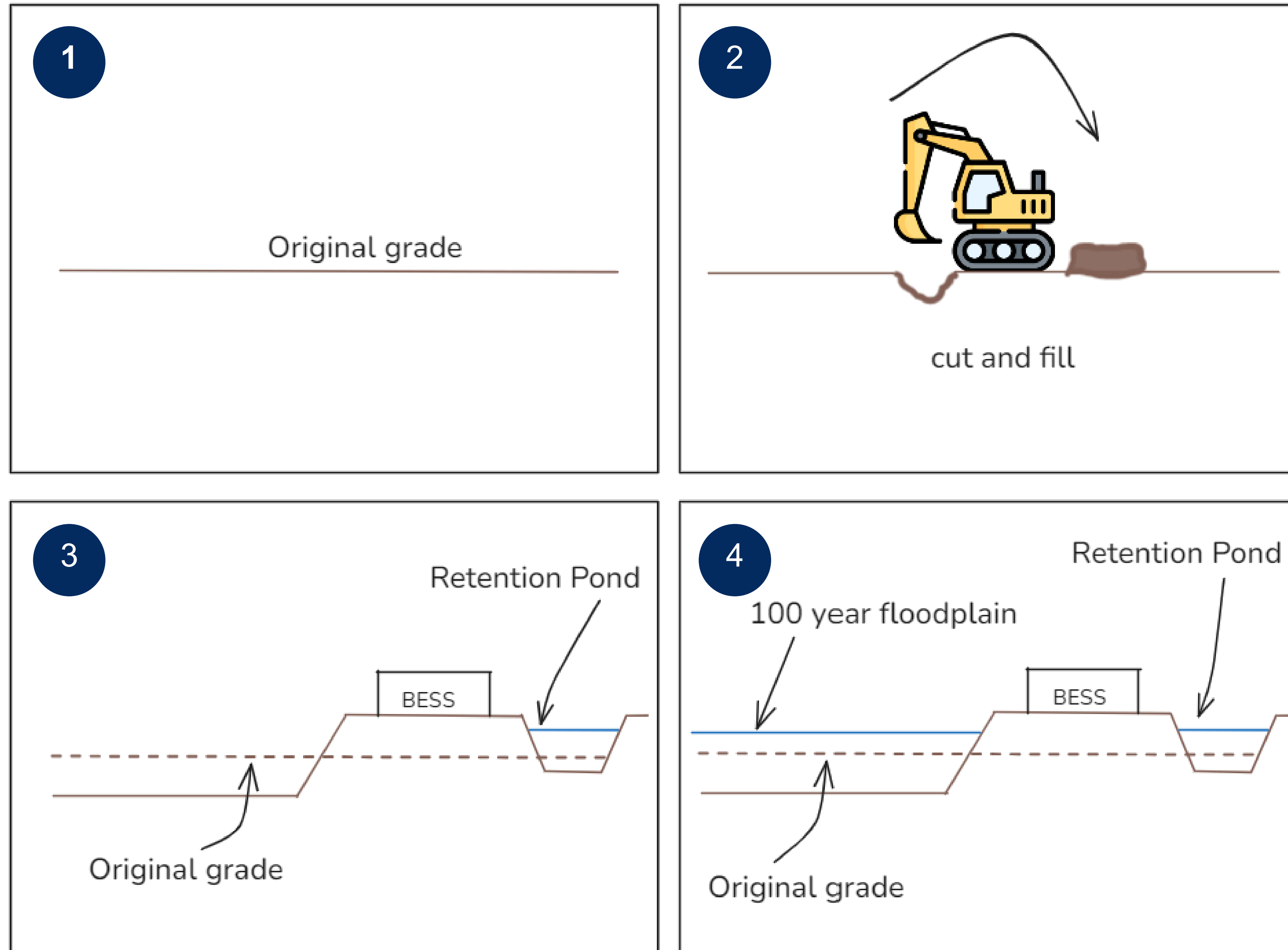
- Tara BESS is proposed within a designated floodplain.
- Neoen must ensure there is no loss to floodplain capacity and that there is no impact to surrounding properties and roadways.
- A “**cut-and-fill**” design is proposed, whereby soil is removed (cut) from areas around the BESS location, including from the adjacent Lot 35, immediately west of the proposed site, and used to raise (fill) the area where the BESS facility will be located.
- The cut areas will provide floodplain capacity in place of lost flood capacity in the fill areas.
- The design has been modeled against the worst possible flood event expected in 100 years to ensure the design can sufficiently protect the floodplain and surrounding areas.
- Neoen’s proposal is **under review by the Grey Sauble Conservation Authority.**

Cut-and-fill Locations



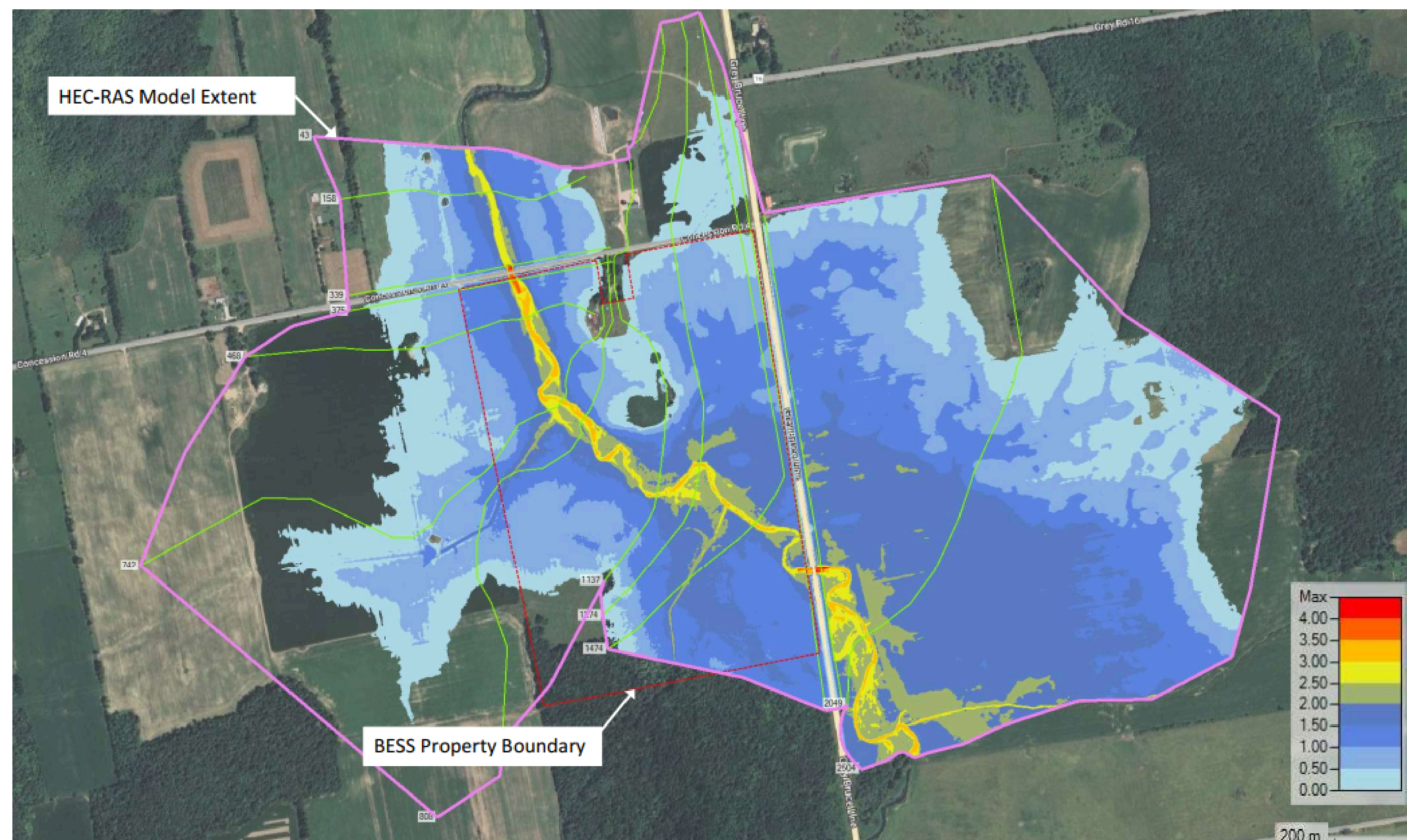
- There will be **no change** to floodplain capacity.
- The **areas that flood will change** (cut areas will take on floodwater, filled areas will not).
- There will be **no change or impact to flood activity on surrounding properties or roadways** other than the project lands and Lot 35.
- The proposed design is sufficient to manage floodwater volumes generated by the worst possible flood event expected in 100 years - **the BESS infrastructure will not flood.**
- The design is under technical review by the Grey Sauble Conservation Authority.

Maintaining the Floodplain: Cut-and-fill Process

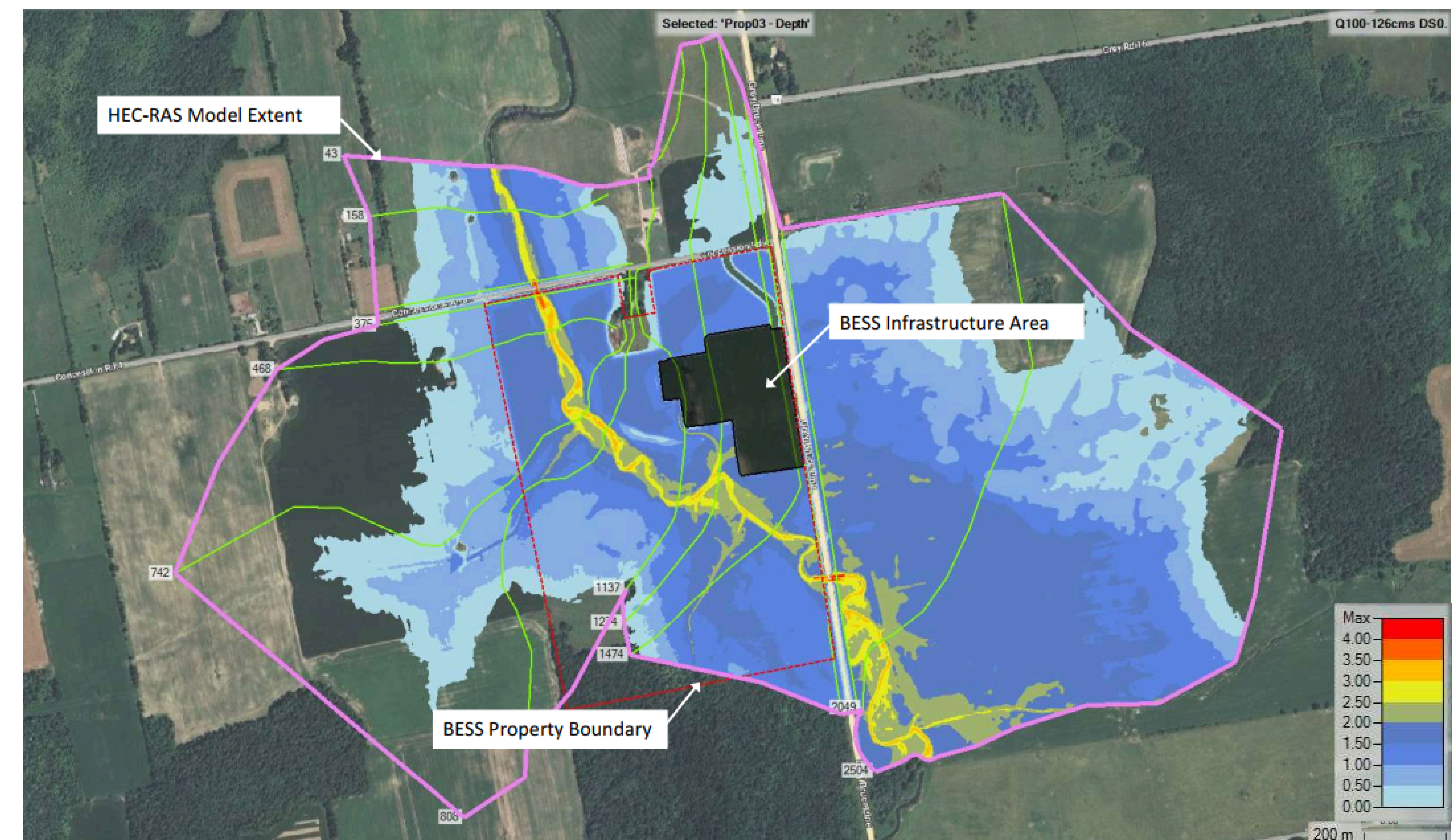


- 1. Original Grade:** existing ground elevation before construction begins.
- 2. Cut and Fill:** excavation and grading is carried out to create floodplain compensation areas and a raised pad for the BESS facility using excavated fill.
- 3. Raised Pad with BESS:** the BESS and retention pond are constructed on the raised pad.
- 4. Floodplain Compliance:** final grading works to ensure the facility is above the 100-year floodplain line.

Existing Condition - 100-year Regulatory Flood Extents and Depths



Proposed Condition (with cut-and-fill) - 100-year Regulatory Flood Extents and Depths



There will be **no flood impact to surrounding properties or roadways**, excluding the project lands and Lot 35.

- A **surface run-off management system** and **retention pond** (collectively, “**stormwater management system**”) are proposed to maintain the quantity and quality of water passing through the BESS facility and to prevent soil erosion.
- The surface run-off management system is comprised of vegetated ditches, subsurface storm sewers and drains leading to a retention pond.
- **The retention pond is impermeable** and complete with an oil separator, discharge orifices, and a control valve **designed to prevent any oil or sediment from entering the Sauble River.**
- The stormwater management system has been modeled against the worst possible storm event expected in 100 years to ensure the design will sufficiently manage flows and protect the Sauble River.
- Neoen’s proposal is **under review by the Grey Sauble Conservation Authority and requires Environmental Compliance Approval (ECA) by the Ministry of Environment, Conservation and Parks.**

Public comments received on the stormwater management system will be included in Neoen’s ECA application.

Public comments on the stormwater management system can be directed to:

info@tarabattery.ca

www.tarabattery.ca (via feedback form)

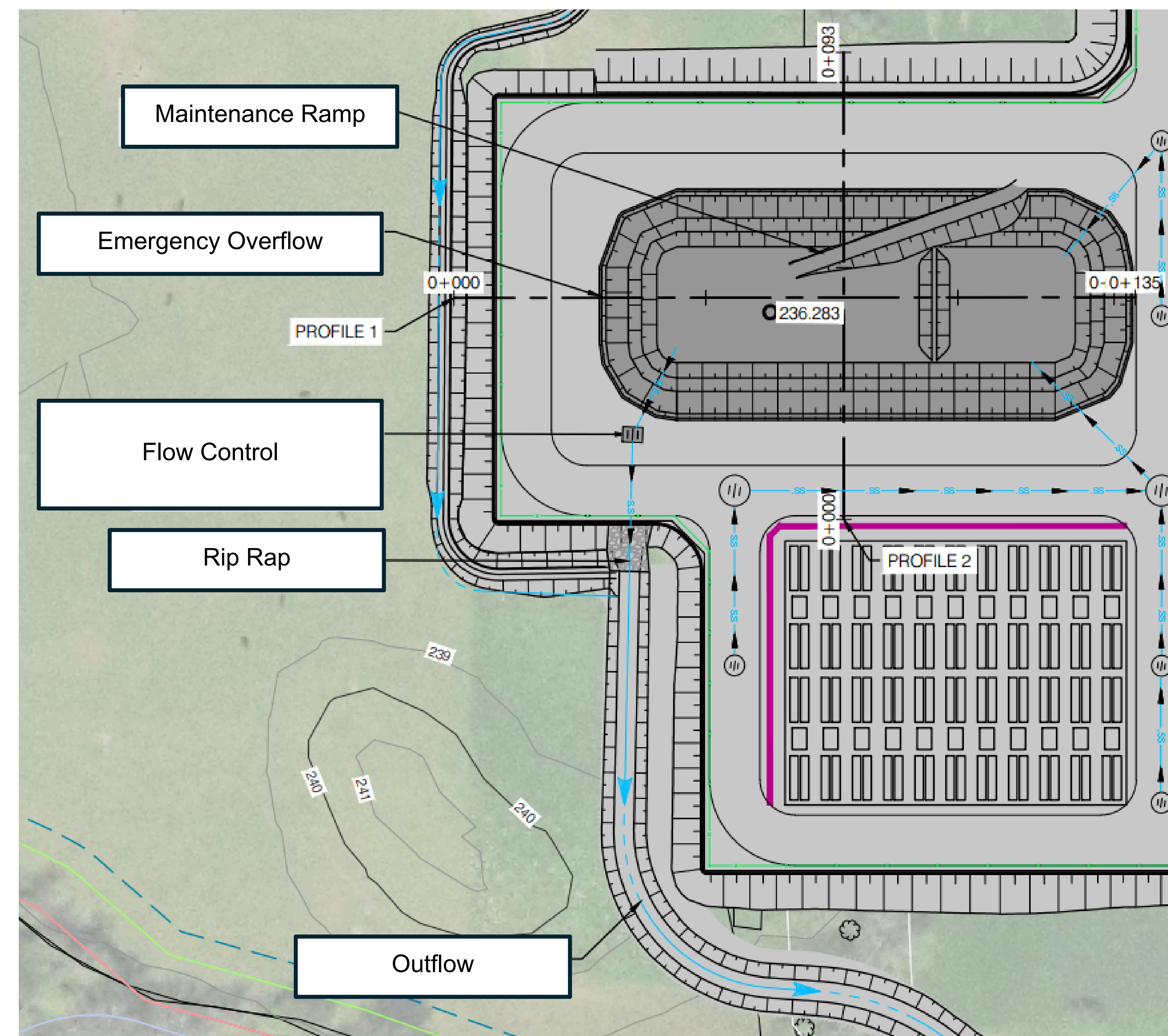
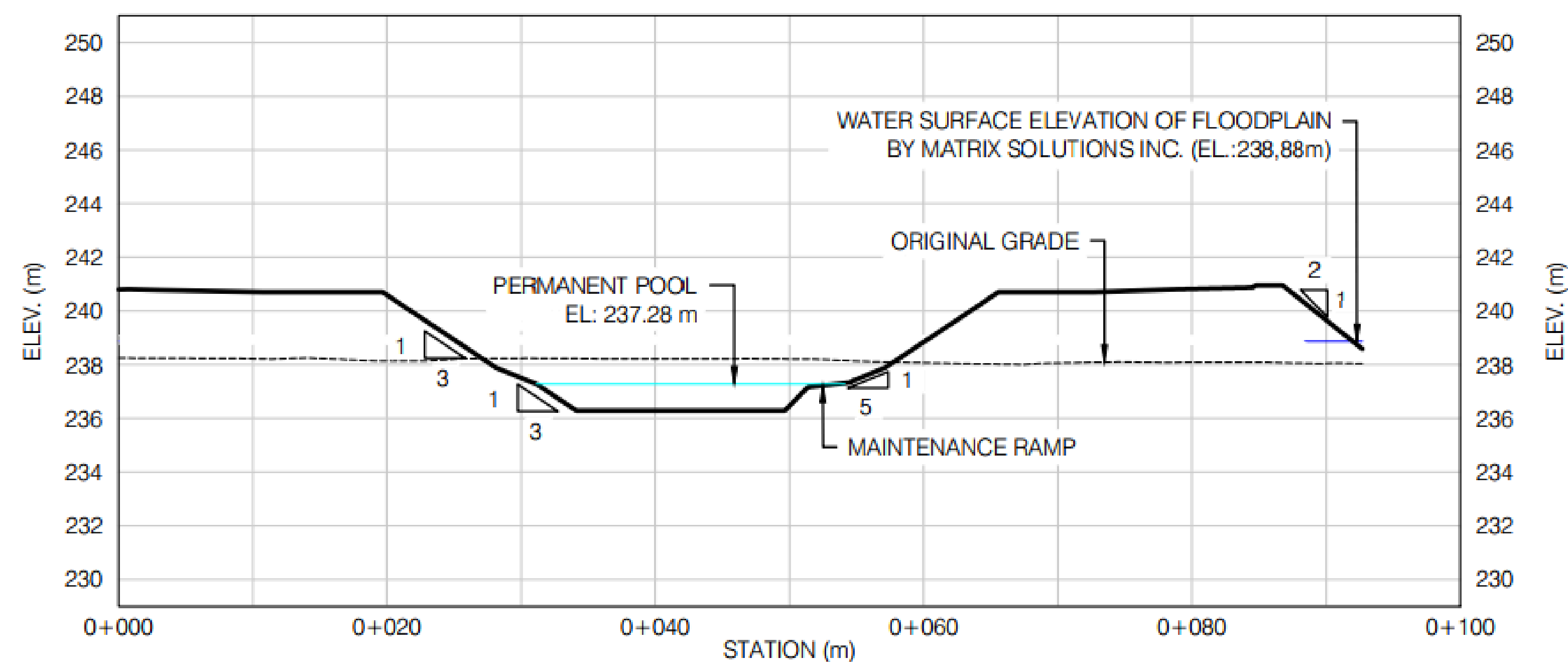
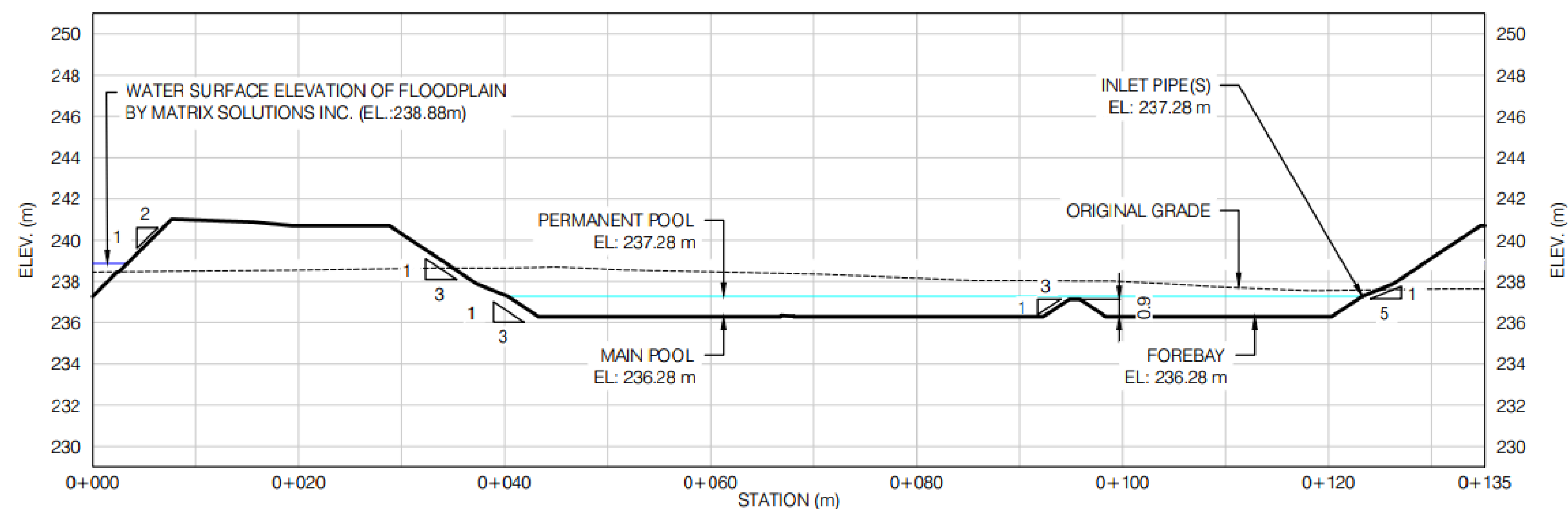
319-150 King Street West, Toronto, ON M5H 1J9

- **What is a retention pond?**

- A retention pond (also known as a wet pond) is a shallow water basin that collects and cleans rainwater from passing through the site before it is released into the external environment.

- **How does a retention pond work?**

- Rainwater flows into the site from the swales and surface run-off system.
- Sediment is separated from the water in the forebay.
- Water moves from the forebay to the main pond where finer particles and oil are separated.
- The cleaned rainwater is slowly discharged from the retention pond to the outflow pipes and into the Sauble River.
- An overflow protection area provides capacity in case of an extreme rainwater event.



- The stormwater management system is **designed for rainwater** entering the site.
- **Tara BESS operations will not introduce water to the stormwater management system** other than the initial filling of the retention pond.
- The retention pond will be located on the filled area, above the 100-year flood line – **it will not take on floodwater.**
- **Regular water testing will occur** in accordance with applicable regulations.
- Outflow can be stopped by closing the control valve.
- An emergency contamination procedure is outlined in Neoen's safety plan.
- The proposed design is sufficient to manage rainwater volumes generated by the worst possible storm event expected in 100 years.
- The design is under technical assessment by the Grey Sauble Conservation Authority and will be assessed by the Ministry of Environment, Conservation and Parks as part of the Environmental Compliance Approval process.

- Tara BESS is subject to the Ministry of Environment, Conservation and Parks' (MECP) Class Environmental Assessment for Minor Transmission Facilities (Class EA) process.
- Notice of Commencement of the Class EA was issued November 25, 2024.
- Feedback received between Notice of Commencement and Notice of Completion will be entered into a public consultation record that will form part of Neoen's Class EA submission to MECP.
- **Notice of Completion is expected in June 2025.**
- Once Notice of Completion is issued, Neoen will accept public comments for a period of 30 days, as required under the EA process:

Public comments will be accepted in writing to:

info@tarabattery.ca

www.tarabattery.ca (via feedback form)

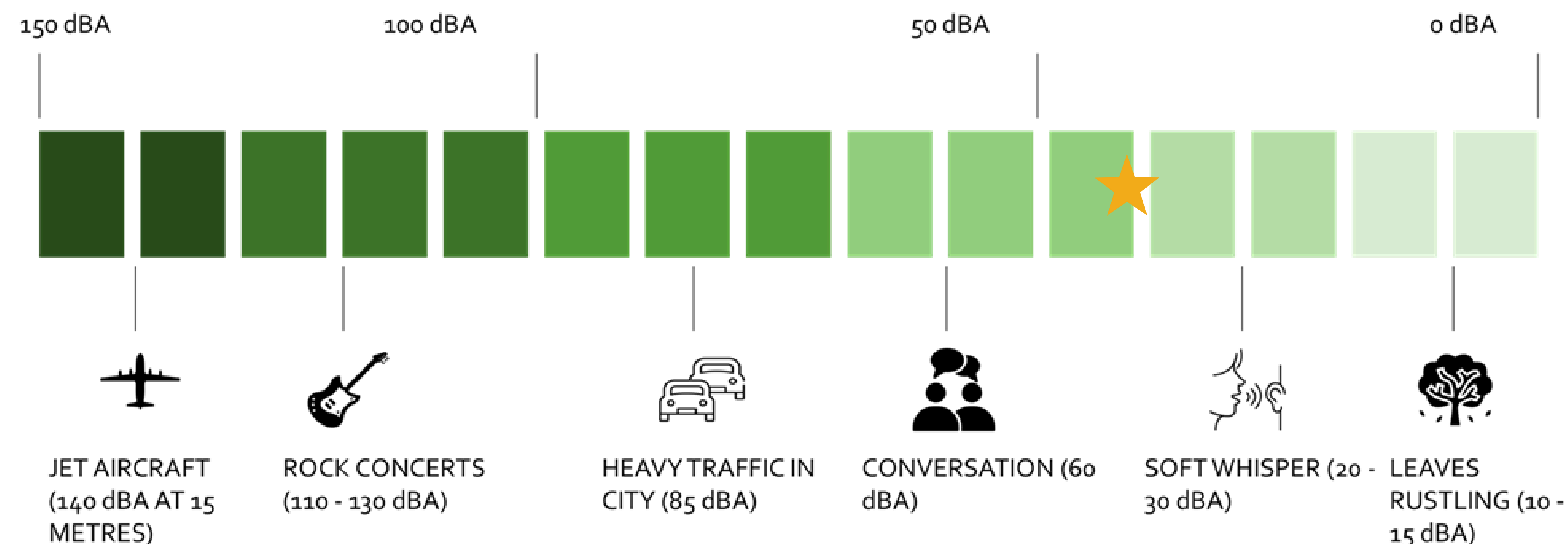
319-150 King Street West, Toronto, ON M5H 1J9

Required Studies:

- Aquatic Habitat Assessment
- Ecological Land Classification and Vegetation Surveys
- Breeding Bird Surveys
- Breeding Amphibian Surveys
- Bat Habitat Assessment (Maternity Roost Surveys)
- Noise Impact Assessment
- Agricultural Impact Assessment

TARA BATTERY Noise Impact Assessment

- Fans inside of the battery containers and transformers generate noise.
- Neoen conducted a Noise Impact Assessment (NIA) to determine the impact of noise generated by Tara BESS to surrounding dwellings.
- Monitoring was conducted to establish baseline ambient levels and to inform noise mitigation measures to measure impacts.
- 7-7.5 meters high acoustic barrier walls are proposed around the west and north sides of each cluster of batteries and around the east, west, and north sides of the high voltage substation transformers.
- Additional mitigation measures may be introduced if future development occurs on a nearby property.
- **At the nearest dwelling, noise generated from Tara BESS must not exceed 40 decibels**— a noise level equivalent to voices in a library.



★ Tara BESS Compliance Level

- Tara BESS is designed to mitigate the risk of fire, chemical, external environmental, and operational hazards that can arise with BESS facilities.
- Hazard events are rare and are mitigated through rigorous engineering, protective measures, thorough operations and maintenance, and stringent safety protocols.
- Neoen has prepared a preliminary **Comprehensive Safety Plan (CSP)** which outlines how Tara BESS and the Neoen team will prevent, mitigate, and respond to hazard events.
- The CSP was submitted as part of Neoen's planning applications, and Neoen will continue to develop the CSP in coordination with- and to the satisfaction of the County and Municipality.
- **A copy of the CSP is available for viewing and feedback** at the registration desk.

- Thermal runaway is an exothermic reaction whereby damaged battery cells release energy in the form of abnormal heat, which can propagate and result in smoke, fire, or combustion.
- Tara BESS is designed with **passive and active protection measures** to mitigate the risk of spill events, including:
 - **Battery Management System** - a 24/7 remote monitoring, diagnostic, troubleshooting and alert system that tracks performance, voltage, current, and state of charge, reacts to fault conditions, and enables the thermal management system to prevent overheating.
 -
 - **Thermal Management System** - an autonomous liquid cooling system that circulates coolant throughout the battery modules to maintain an optimal battery operating temperature.
 - **Overpressure Vents and Ignitors** - vents and ignitors are installed throughout the battery bays. Ignitors ignite flammable gases in a thermal runaway event before they can accumulate. Overpressure vents work autonomously to allow gases, products of combustion, and flames to safely exhaust through the roof of the container during a thermal event, preventing explosion.
- Neoen completed an Air Dispersion Model (ADM) to identify the types of toxic gases that could be emitted and the associated dispersion radius in the event of a fire, and to inform an evacuation plan.
- A copy of the ADM is available for viewing at the registration desk.

- Tara BESS is designed with **passive and active protection measures** to mitigate the risk of a spill event, including:
 - Battery container gutter system and containment basin.
 - Transformer spill trays with oil separators.
 - Retention pond.
- Neoen's incident response procedure for spills events is outlined in its CSP.
- A copy of the CSP is available at the registration desk for viewing.
- The effectiveness of the proposed design in protecting water quality will be assessed by the Ministry of Environment, Conservation and Parks as part of the Environmental Compliance Approval process.

WE ARE HERE

1

Field Studies & Assessments Spring 2024 – Spring 2025

Neoen undertakes studies and assessments to inform project design and to support consultation and permitting.

2

Consultation

**September 2024 –
Present**

Neoen consults Rightsholders, stakeholders, and community on the project and incorporates feedback.

3

Permit Submissions

**Spring 2025 –
Summer 2025**

Neoen submits permit and approval applications to applicable regulatory bodies.

4

Review and Approval

Post-submission

Regulatory bodies review Neoen's applications and may approve or reject the applications

5

Construction

Target Spring 2026

Construction of Tara BESS begins

6

Operations

Target Late 2027

Commercial operations of Tara BESS begin.

SUBJECT TO PROJECT APPROVAL

Required Permits & Approvals:

- Grey Sauble Conservation Authority Approval – under review
- Official Plan Amendment and Re-zoning – under review
- Class EA for Transmission Facilities – submission expected June 2025
- Environmental Compliance Approval (stormwater)
- Environmental Activity Sector Registration (noise)
- Archaeology Clearance
- Approved Soil and Excess Materials Management Plan
- Ontario Endangered Species Act Sec.17 Permit (if applicable)
- Arran-Elderslie BESS Policy (Site Plan)



BESS construction typically takes 1.5 years to complete, and includes the following activities:

- Temporary fence installation
- Equipment mobilization
- Temporary storage areas
- Material deliveries (by truck)
- Clearing, cut, fill and grading
- Shallow excavation and pouring of concrete slabs or pile installation
- Hoisting of pre-assembled battery containers and transformers
- Erection of steel structures and transmission lines
- Electrical connection work
- Acoustic barrier wall installation
- Landscaping



Once operational, a BESS typically completes one charge and discharge cycle per day.

A crew of approximately 2-10 workers, contracted by Neoen, will operate Tara BESS. Neoen can elect to operate each day or not.

Permanent fencing will enclose the BESS facility. Site lighting and security cameras will be installed.



Did you know that Neoen is a pioneer in battery energy storage? Neoen delivered the world's first utility scale battery, Hornsdale Power Reserve, located in South Australia.



- The consultation period for Tara BESS began in fall 2024 and will continue through spring 2025.
- Neoen is consulting Rightsholders, stakeholders, landowners, occupants and residents in the immediate vicinity of the project, and the broader community.
- Feedback gathered during the consultation period will form part of a public consultation record that will support Neoen's development applications, inform the project design, mitigation measures, and community benefits.



We want to hear from you!

- Phone: (416) 312-0057
- Email: info@tarabattery.ca
- Web: www.tarabattery.ca (via feedback form)
- Mail: 319-150 King Street West, Toronto, ON M5H 1J9
- Request a 1-on-1 meeting



TARA BESS OPEN HOUSE
THURSDAY JUNE 5, 2025
12:00 - 2:00 PM & 6:00 - 8:00 PM

Development Application

39 Concession 4 Arran

**Bruce County Official Plan Amendment C-2025-003 You're invited to a Public Meeting
August 7, 2025 at 9:30 am**



A change is proposed in your neighbourhood:

The Tara Battery Energy Storage System (Tara BESS) is a 400-megawatt (MW), 1,600-megawatt hours (MWh) utility-scale battery energy storage project proposed in the Municipality of Arran-Elderslie. The project site is within a regulated floodplain that is proposed to be altered to accommodate the use. The property is currently zoned 'Environmental Protection' (EP) and 'General Agriculture' (A1) in the municipal zoning by-law. The facility is proposed within the EP zone with a small encroachment into the A1 zone. The amendment proposes to re-zone the project area within the EP zone to an A1 zone with a site-specific permission allowing the establishment of a battery energy storage facility. The adjusted floodplain area is proposed to be rezoned EP. The related Zoning By-Law Amendment file is Z-2025-011.

Accessing the Public Meeting:

Join the meeting in-person at the County of Bruce Administration Centre, Council Chambers, 30 Park St, Walkerton, ON N0G 2V0, by phone, or virtually. Please call or email ahead to participate by phone or virtually. The agenda, public video livestream, and post meeting video recording can be viewed at www.brucecounty.on.ca/government/agendas-and-minutes.

For more information about this matter, including information about appeal rights:

- visit <https://brucecounty.on.ca/living/land-use>
- visit, write or call (Monday to Friday 8:30 am to 4:30 pm)

**Bruce County Planning Department
268 Berford Street, PO Box 129
Warton, ON N0H 2T0
bcplwi@brucecounty.on.ca 226-909-5515**



**Development Application
39 Concession 4 Arran
Zoning By-Law Amendment File No. Z-2025-011
You're invited to a Public Meeting
July 14, 2025 at 9:00 am**

A change is proposed in your neighbourhood:

The Tara Battery Energy Storage System (Tara BESS) is a 400-megawatt (MW), 1,600-megawatt hours (MWh) utility-scale battery energy storage project proposed in the Municipality of Arran-Elderslie. The project site is within a regulated floodplain that is proposed to be altered to accommodate the use. The property is currently zoned 'Environmental Protection' (EP) and 'General Agriculture' (A1) in the municipal zoning by-law. The facility is proposed within the EP zone with a small encroachment into the A1 zone. The amendment proposes to re-zone the project area within the EP zone to an A1 zone with a site-specific permission allowing the establishment of a battery energy storage facility. The adjusted floodplain area is proposed to be rezoned EP. The related County Official Plan Amendment file is C-2025-003.

Accessing the Public Meeting:

The public meeting will be held in person, in the municipal Council Chambers located at 1925 Bruce Road 10, Chesley, ON, N0H 1L0. Seating may be limited - you may be required to wait outside until called upon to speak. As an alternative, you may submit written comments to the Bruce County Planning Department which will be considered at the meeting. Please contact Clerk Christine Fraser-McDonald at cfraser@arran-elderslie.ca or 519-363-3039, ext. 101 if you have any questions regarding how to participate in the meeting.

For more information about this matter, including information about appeal rights:

- visit <https://www.brucecounty.on.ca/active-planning-applications>
- visit, write or call (Monday to Friday 8:30 am to 4:30 pm)

Bruce County Planning Department

268 Berford Street, PO Box 129

Warton, ON N0H 2T0

bcplwi@brucecounty.on.ca 226-909-5515