Conservation Halton

Planning & Regulations
905.336.1158
2596 Britannia Road West
Burlington, Ontario L7P 0G3
conservationhalton.ca

March 5, 2024

Michael Joel Kam
105 Avondale Court
Burlington, Ontario L7L 2M8

BY EMAIL ONLY (michael@posner.ca)

To Michael Joel Kam:

Re: Construction of an armourstone revetment extending in front of existing shoreline protection works along the shoreline of Lake Ontario
105 Avondale Court
City of Burlington
CH File: RAPP-9132

Please find enclosed **Permit No. 8813** issued in accordance with Ontario Regulation 162/06, for the above-noted development.

Staff have reviewed and approved the following file regarding the above noted works:

- *Site Plans, Sections, & Specifications Sheet No. 1 of 1 – Revision 3* prepared by Shoreplan Engineering Limited received by Conservation Halton February 16, 2024, redline revised and stamped approved March 5, 2024.

Conservation Halton (CH) regulates all watercourses, valleylands, wetlands, Lake Ontario and Hamilton Harbour shoreline and hazardous lands, as well as lands adjacent to these features. The subject property, 105 Avondale Court, Burlington, is adjacent to Lake Ontario. The shoreline of Lake Ontario is subject to the provisions of Ontario Regulation 162/06 of the Conservation Authorities Act (CA Act). Through the review of the plans for development along the shoreline, CH seeks to ensure that waterfront development will generally be directed to areas outside of the hazardous lands. Hazardous lands are those lands adjacent to the shoreline of the Great Lakes - St. Lawrence River System, which are impacted by flooding, erosion, and/or dynamic beach hazards. The combination of these hazardous lands delineates the extent of the development setback and is determined on-site specific conditions. Permission is required from CH prior to undertaking any development within CH's regulated area and applications for development are reviewed under CH's *Policies and Guidelines for the Administration of Ontario Regulation 162/06*.

Please note that effective April 1, 2024, CH's regulation, Ontario Regulation 162/06 ("Regulation of Development, Interference with Wetlands and Alterations to Shorelines and Watercourses") under Section 28 of the CA Act will be repealed and replaced by Ontario Regulation 41/24: Prohibited Activities, Exemptions and Permits. Complimentary provisions under Part VI ("Regulation of Areas Over Which Authorities Have Jurisdiction") and Part VII ("Enforcement and Offences") of the CA Act will be proclaimed on the same date. Effective April 1, 2024, CH will regulate a 15m allowance from the greatest hazard associated with the shoreline of Lake Ontario.

CH is currently reviewing what transition policies and procedures will be necessary for implementation of the new regulation and provisions of the CA Act that will come into effect April 1, 2024.

The approved development includes the construction of an armourstone revetment for shoreline protection works. The existing shoreline protection works are not to be removed, rather will be left in place behind the newly constructed revetment. Given the works are considered upgrades to existing shoreline protection works, they

meet Policy 2.46.2 of Conservation Halton's *Policies and Guidelines for the Administration of Ontario Regulation 162/06 and Land Use Planning Document,* last amended November 26, 2020.

Note: Although the new armourstone revetment will extend further into the Lake than the existing protection wall, the toe of slope as shown on the stamped approved drawing [*Site Plans, Sections, & Specifications Sheet No. 1 of 1 – Revision 3*] identified as the *"Existing Armourstone Seawall to Remain"* will remain as the natural toe of slope location, from which any applicable setbacks for future development would be measured. The proposed dwelling shown on the drawing is not to be considered as part of this permit and staff have redlined a note on the drawings confirming such.

Based on the above, this permit is approved with the following conditions:

a. **That CH be contacted immediately should any changes to the scope of works or details as identified on the stamped approved drawings be proposed. Note: Further review or additional information may be required to support changes.**
b. **That as-built drawings of the works be provided by the design engineer to Conservation Halton for review/confirmation within 2 months of completion of the works.**
c. **That effective sediment and erosion control measures be installed prior to starting work, maintained during construction and fully removed once all disturbed areas have been stabilized. That site conditions be monitored and that the sediment and erosion control measures be modified if site conditions warrant it.**
d. **That disturbed areas be stabilized and restored immediately following the completion of construction to the satisfaction of CH.**
e. **That excess fill (soil or otherwise) generated from the proposed works shall not be stockpiled or disposed of within any area regulated by CH, pursuant to *Ontario Regulation 162/06.***

Please be sure that you read and understand all conditions listed on the enclosed Permit (and included below). Please also note that contravention of a Permit, or the terms and conditions of a Permit, is considered an offence under Section 28(16) of the *Conservation Authorities Act*. It is your responsibility to ensure that any person working under the authority of this Permit is familiar, and complies with, the terms and conditions.

This Permit or a copy thereof as well as all approved drawings must be available at the site. Any changes to the approved design or installation methods must be reviewed and approved by CH staff prior to their implementation. This Permit is valid two years from the date it is issued.

Please be advised that should you have any objection to any of the conditions of the permit, you are entitled to request a hearing before the Authority, in accordance with Section 28(12) of the *Conservation Authorities Act.* A written notice of your request for a hearing must be received by staff within 30 days of the date of this letter. Please note that if a hearing has been requested, this permit approval is withdrawn until such time as the hearing results have been finalized and commencement of any site alteration must not occur until the results of the Hearing are determined.

We trust the above is of assistance in this matter. Should you require further information, please contact the undersigned at cconnolly@hrca.on.ca.

Regards,

Cassandra Connolly
Regulations Officer

Encl. 2

Cc: City of Burlington, planning@burlington.ca (Permit and Drawings)
Graham Riehm, Shoreplan, griehm@shoreplan.com (Permit and Drawings)

2596 Britannia Road West
Burlington, ON L7P 0G3
Telephone: 905 336-1158 Fax: 905 336-6684

PERMIT #: 8813

FILE #: RAPP-9132

PERMIT

IN ACCORDANCE WITH SECTION 3 OF REGULATION 162/06, PERMISSION HAS BEEN GRANTED TO:

Owner's Name: Michael Joel Kam Phone: 905-906-1881

Mailing Address: 105 Avondale Court, Burlington ON L7L 2M8

Agent/Contractor: Shoreplan Phone: 416-487-4756

202-20 Holly Street, Toronto ON M4S 3B1

Property Location: 105 Avondale Court

in the (City, Town, Township) of: Burlington (Region/County) of: Halton

This permit is for the construction of an armourstone revetment extending in front of existing shoreline protection works along the shoreline of Lake Ontario.

This permit is issued on this **5th day of March, 2024** Expires**: 5th day of March, 2026**

And is subject to the following conditions:

1. That the work to be carried out in accordance with plans submitted on February 16, 2024 and stamped APPROVED by: Cassandra Connolly, Regulations Officer

2. see reverse

3. **This permit (including drawings stamped approved by Conservation Halton) or a copy thereof, must on site and be available for inspection.**

Conservation Halton may, at any time, withdraw any permission given under this regulation if, in the opinion of the Conservation Authority, the conditions of the permit are not complied with.

Authorized representatives of Conservation Halton may, at any time, enter lands and buildings, to make any surveys, examinations, investigations, and inspections to ensure that the works authorized by this Permit are being carried out in accordance with the terms of this Permit.

This permit does not preclude any approvals required by any other existing law and regulations.

Authorized by: Kellie McCormack on the 5th day of March 2024

Kellie McCormack, MA, MCIP, RPP, Director, Planning and Regulations

Your privacy is important to us. If you have questions regarding our Privacy Policy, please visit our website at www.conservationhalton.ca/privacy or ask a staff member

2.

a. That CH be contacted immediately should any changes to the scope or timing of works, or details as identified on the stamped approved drawings, be proposed. Note: Further review or additional information may be required to support changes;

b. That disturbed areas be stabilized immediately following the completion of construction to the satisfaction of Conservation Halton;

c. That as-built drawings of the works be provided by the design engineer to Conservation Halton for review/confirmation within 2 months of completion of the works;

d. That effective sediment and erosion control measures be installed prior to starting work, maintained during construction and fully removed once all disturbed areas have been stabilized. That site conditions be monitored and that the sediment and erosion control measures be modified if site conditions warrant it; and

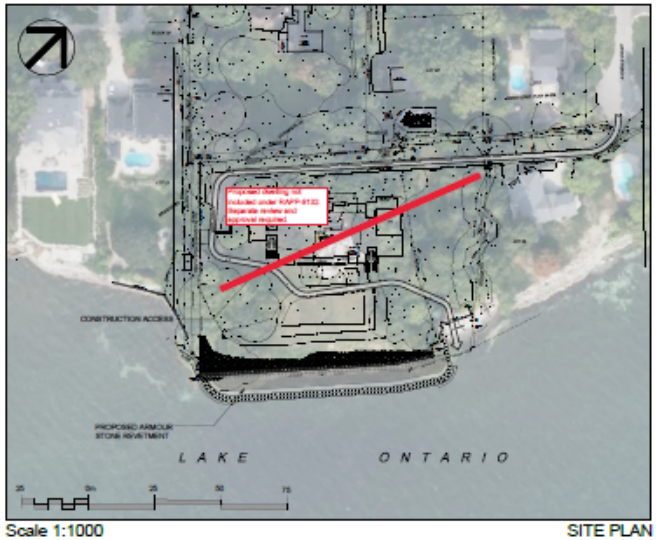
e. That excess fill (soil or otherwise) generated from the proposed works shall not be stockpiled or disposed of within any area regulated by Conservation Halton, unless in conformance as per the approved plans, pursuant to Ontario Regulation 162/06.



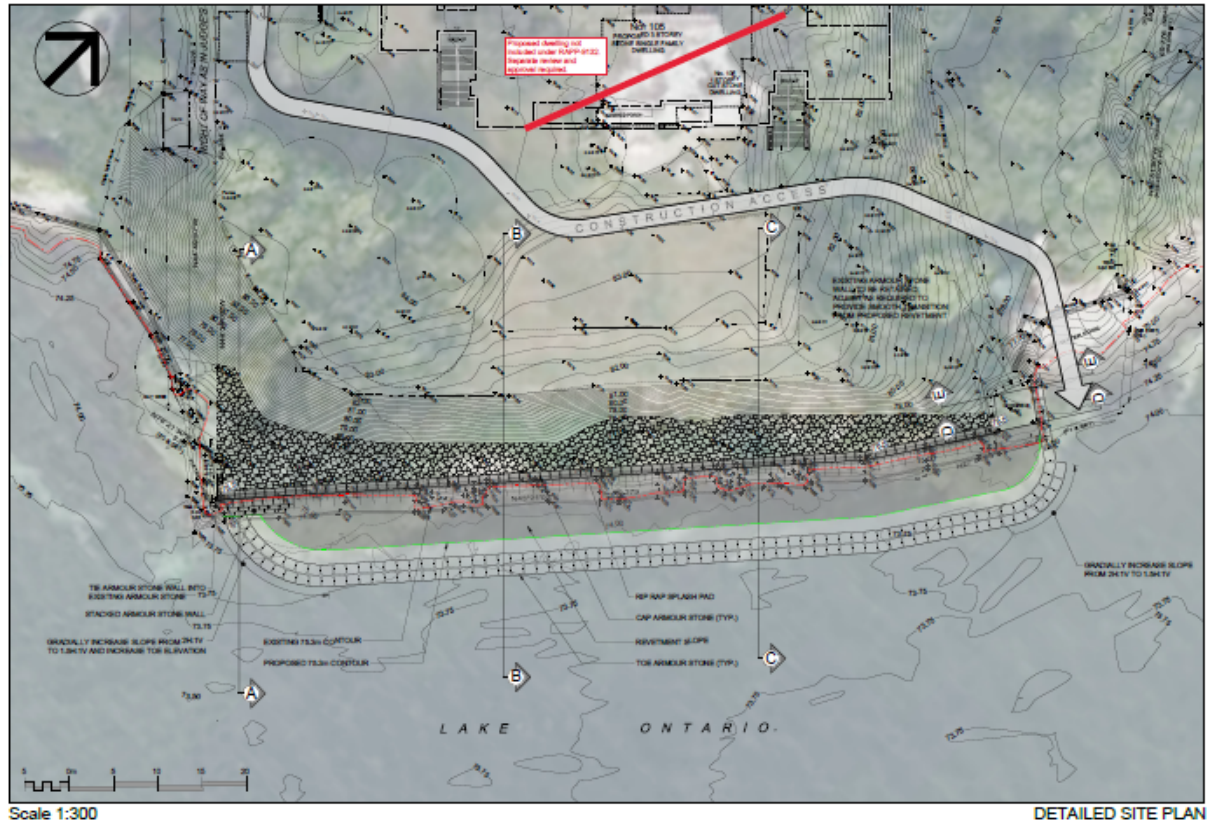
Not to Scale — LOCATION PLAN

RECEIVED
CONSERVATION HALTON
FEB 16 2024

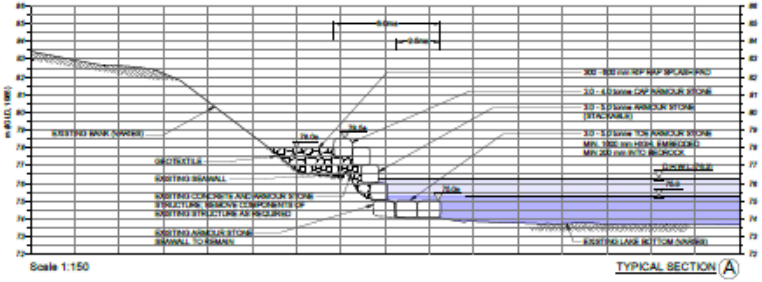
HALTON REGION CONSERVATION AUTHORITY
APPROVED BY:
DATE: 2024-03-05
Subject to the conditions provided on
PERMIT No.: 8813



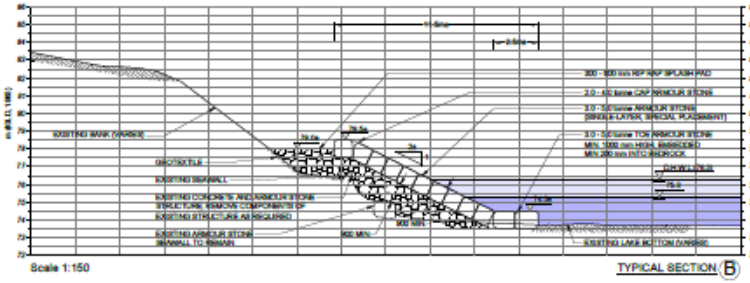
Scale 1:1000 — SITE PLAN



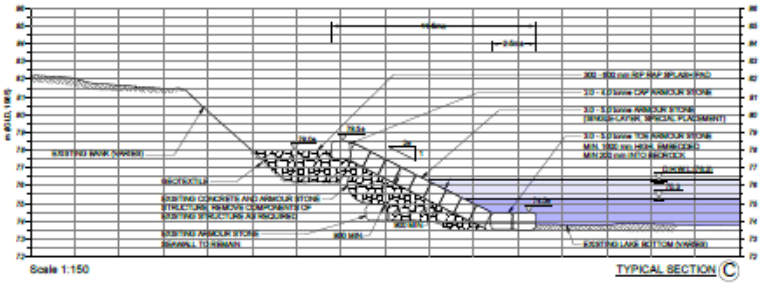
Scale 1:300 — DETAILED SITE PLAN



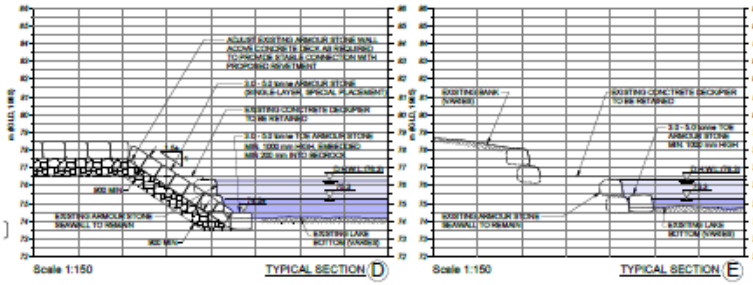
Scale 1:150 — TYPICAL SECTION (A)



Scale 1:150 — TYPICAL SECTION (B)



Scale 1:150 — TYPICAL SECTION (C)



Scale 1:150 — TYPICAL SECTION (D)

Scale 1:150 — TYPICAL SECTION (E)

SPECIFICATIONS:

1. Work includes preparation of the access to the site, demolition and/or removal of items indicated on the contract drawing or required to complete the specified work, tree and brush removal required to complete the work, removal of existing armour stone structures, concrete, and concrete rubble and miscellaneous other site preparation tasks required to complete the specified works, disposal of the derived or excess material in a legal manner, and the restoration of the sites and access routes to existing or better conditions. Erect any silt curtains or fences as required by conditions of approvals and comply with any and all conditions outlined on permits.
2. Riprap stone shall be clean, hard, dense, angular, quarry stone, free from seams, cracks or other structural defects with relative density 2.6, +/-0.15. Riprap material shall be rock, ranging in size from 300 to 600 mm. Minimum 50% of the total volume shall contain stone of individual size greater than 450 mm and not more than 10% of volume shall contain stone less than 350 mm in size. Specified dimensions represent the smallest dimension of individual rock pieces. In case of a dispute regarding the size of material the contractor shall provide scientific proof of size at his expenses. Place riprap to lines and grades indicated on the contract drawings.
3. Armour stone for revetment shall be clean, hard, durable, quarry stone, free from cracks, seam or other defects which may impair durability. Individual stones in masses varying as indicated on the contract drawings. Least dimension of each stone not less than 2/3 of greatest dimension. Relative density of 2.6, +/- 0.15. The stones shall have roughly parallel top and bottom surfaces. The stones shall be angular or semi-angular. Use of existing armour stones is permitted where armour stones meet specified requirements. Armour stone placed as steps, cap or toe of revetment, or against existing structures will need to be cut, chiseled, or otherwise shaped to provide a tight fit and stable placement.
4. The filter fabric material (geotextile) shall be non-woven pervious, inert and durable. The material shall be Terrafix 600R or approved equal. Individual filter fabric sheets shall reach from the top of the revetment to the toe. Provide a minimum of 800 mm overlap width in the across the slope direction when placing a new section of filter fabric adjacent to a previously placed section. Repair any damaged filter fabric by placing second layer, overlaying the damaged area by not less than 1500 mm in all directions beyond the damaged area. Use geotextile under rip rap whenever fine grained soils are encountered.
5. Top soil as per OPSS 802. Sod as per OPSS 803.

GENERAL NOTES

1. All dimensions in millimeters unless indicated otherwise.
2. All elevations in meters, CGVD28.
3. Topographic survey and completed by Ashenhurst Nouwens Limited on June 10, 2011. Secondary topographic survey of lower bank completed by Shoreplan Engineering Limited on May 26, 2023. Bathymetric survey completed by AQ UAV on June 10, 2022. Owner to establish property lines prior to start of construction.
4. No in-water work shall be carried out during periods noted on permits.
5. All equipment shall be refueled at least 30 meters from the lake.
6. Contractor shall provide 48 hours notice of start of construction to all approving agencies.
7. Construction access to be restored to existing conditions or better upon completion.

No.	Date	Revisions	By
3	2024/03/06	CH Comments	M.S.
2	2023/11/20	Issued for Approvals Only	M.S.
1	2023/09/18	Issued for Review Only	M.S.

SHOREPLAN
Shoreplan Engineering Limited
30 Holly Street, Suite 202
Toronto, Ontario
M4S 3B1 Tel. (416) 487-4756

M. STURM
2023/11/21
PROFESSIONAL ENGINEER PROVINCE OF ONTARIO

Project Title
SHORE PROTECTION IMPROVEMENTS
105 AVONDALE COURT
BURLINGTON, ONTARIO

Drawing Title
SITE PLANS, SECTIONS, & SPECIFICATIONS

Drawn By	D.V.
Checked By	M.S.
Date of Issue	
Scale	AS SHOWN
Project No.	22-3717
Sheet No.	1 of 1