

# NORTHWEST CALGARY

## Transmission Line Relocation Project



### PROJECT OVERVIEW

ENMAX Power Corporation (ENMAX Power) owns and operates transmission line 16.61L (16.61L) which has provided electrical services to residential and commercial properties in Calgary's Collingwood, Charleswood, Brentwood, Dalhousie and Varsity communities since the early 1960s.

Through its regular inspection program, ENMAX Power has determined that most of the existing wood poles and/or components (including insulators, crossarms and hardware) have reached their anticipated end of life. As a result, ENMAX Power will apply to the Alberta Utilities Commission (AUC) to replace and/or relocate a portion of the existing 16.61L (the Project).

Following the initial public notification of the Project in March 2022, and through subsequent stakeholder consultation, ENMAX Power continued to evaluate the Project route and structure combination options. Towards the end of Q2 2022, ENMAX Power intends to apply to the AUC with two potential route options for approval: a preferred route and an alternate route.

### PROJECT DETAILS

Both the preferred route and alternate route will follow a similar alignment which involves relocating the existing 16.61L along John Laurie Boulevard NW in the Charleswood and Collingwood communities.

In the Brentwood community, both the preferred and alternate route involve relocating the existing 16.61L away from private property to allow for necessary maintenance access. Distribution services will remain in place along the existing alignment. As a result, the height of existing poles that currently house both 16.61L and distribution wires will be shortened, while existing distribution poles that do not support 16.61L will remain unchanged.

In the Dalhousie community, the preferred route will involve replacing the poles along the current alignment. The alternate route will involve relocating 16.61L to a new alignment, primarily within Shaganappi Trail NW and Crowchild Trail NW.

### PROPOSED SCHEDULE

ENMAX Power plans to file a Facility Application with the AUC for approval of the Project towards the end of Q2 2022. Subject to receiving approvals and procuring materials, construction is anticipated to occur in Q3 2023.

Project construction is anticipated to take approximately three months, with an expected in-service date in Q4 2023. ENMAX Power will provide notification to impacted stakeholders in advance of Project construction.

# NORTHWEST CALGARY

## Transmission Line Relocation Project



### **PREFERRED ROUTE: PARTIAL RELOCATION (WEST PORTION)**

The Partial Relocation Route would replace 65 existing wood poles with 66 new structures along the existing alignment through Dalhousie and a new alignment through Brentwood, Charleswood and Collingwood.

ENMAX Power has evaluated two different structure combinations for the Partial Relocation Route: Partial Relocation Route #1a (which would replace the existing wood poles with a combination of 35 wood poles and 31 steel and/or laminated wood structures) and Partial Relocation Route #1b (which would replace the existing wood poles with a combination of 46 steel monopoles and 20 laminated wood structures). ENMAX Power will include details about both of these design options in its pending Facility Application so that the Commission can make an informed decision on the structure combination that is most appropriate in these particular circumstances.

The route, number of structures and structure locations will be the same for the Partial Relocation Route regardless of structure combination. Beginning at ENMAX No. 16 Substation, structures #1 through #4 and structures A through N would be replaced in approximately their current locations. The route would then turn north at structure #23 and follow Shaganappi Trail NW to structure #28. This route would then run east along the north side of John Laurie Boulevard NW from structure #29 to structure #38. The route would cross from the north to south side of John Laurie Boulevard NW and connect to structure #39. The route will continue east and connect to ENMAX No. 27 Substation. The Partial Relocation Route is approximately 6.3 kilometers in length.

**Please see the included Maps which illustrate the Preferred Partial Relocation Route and structure combinations through Dalhousie and Brentwood:**

**PARTIAL RELOCATION ROUTE (1A) (WEST PORTION)**

**PARTIAL RELOCATION ROUTE (1B) (WEST PORTION)**

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## Transmission Line Relocation Project

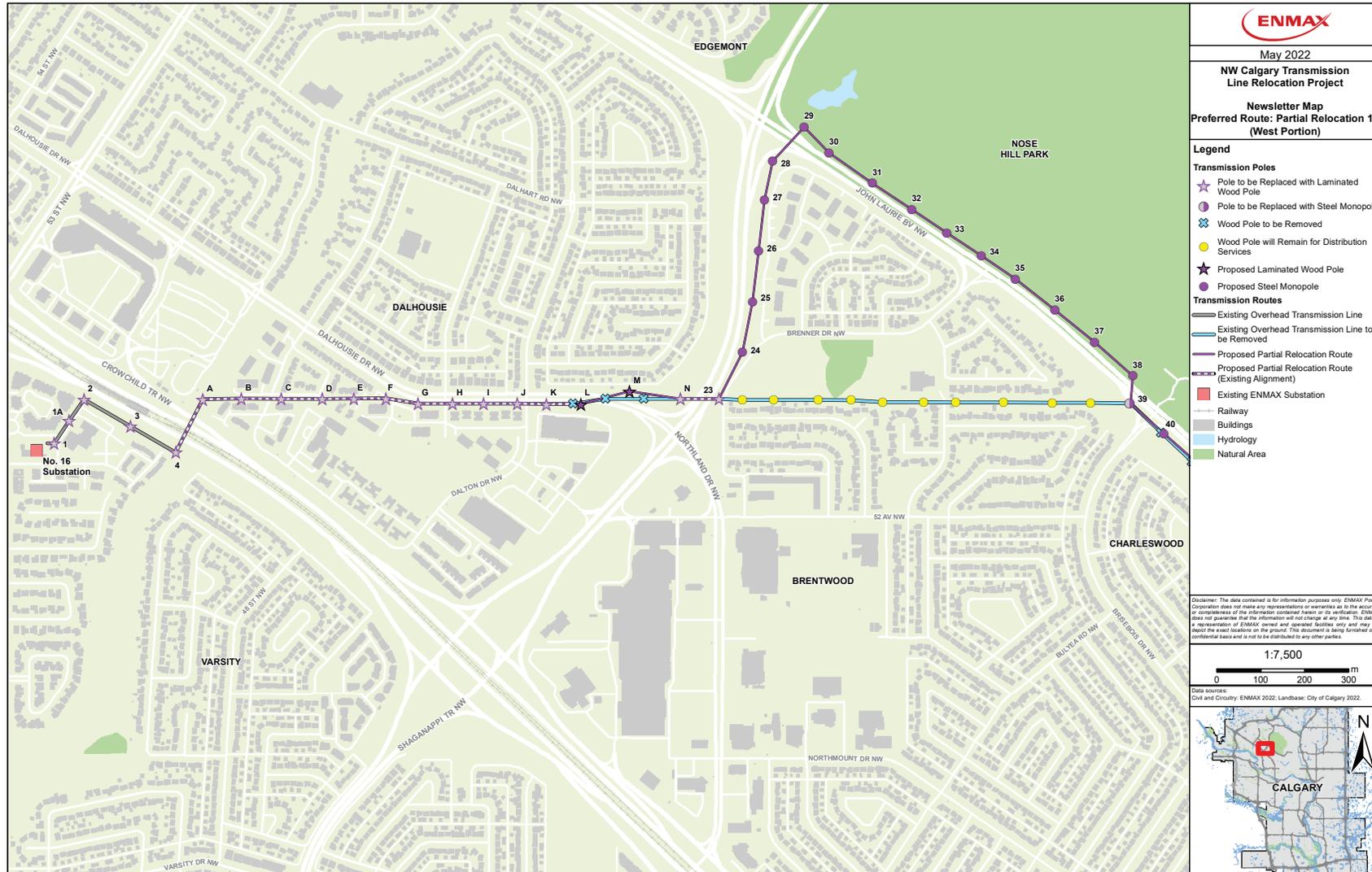
### PREFERRED ROUTE: PARTIAL RELOCATION (1A) (WEST PORTION)



# NORTHWEST CALGARY

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### PREFERRED ROUTE: PARTIAL RELOCATION (1B) (WEST PORTION)



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### **ALTERNATE ROUTE: COMPLETE RELOCATION (WEST PORTION)**

The Complete Relocation Route would require the removal of 65 wood poles along the current alignment in Collingwood, Charleswood, Brentwood, Dalhousie and Varsity and the installation of 70 new structures (68 steel monopoles and 2 laminated wood structures) within a new alignment for nearly all of the route.

Beginning at ENMAX No. 16 Substation, structures #1 through #4 would be replaced in approximately their current locations. The new alignment would continue east along Crowchild Trail NW from structure #5 to structure #14, then turn north and run along Shaganappi Trail NW to structure #28. The route would then run east along the north side of John Laurie Boulevard NW from structure #29 to structure #38. The route would cross from the north to south side of John Laurie Boulevard NW and connect to structure #39. The route will continue east and connect to ENMAX No. 27 Substation. The Complete Relocation Route is approximately 6.8 kilometers in length.

### **ALL ROUTE OPTIONS (EAST PORTION)**

The East Portion map illustrates the route and structure types through Charleswood and Collingwood. This portion of the route is the same for the preferred Partial Relocation Route and the alternate Complete Relocation Route.

Please see the included Maps:

#### **COMPLETE RELOCATION ROUTE (WEST PORTION)**

Complete Relocation Route and structure types through Brentwood and Dalhousie.

#### **ALL ROUTE OPTIONS (EAST PORTION)**

Route and structure types through Charleswood and Collingwood.

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## Transmission Line Relocation Project

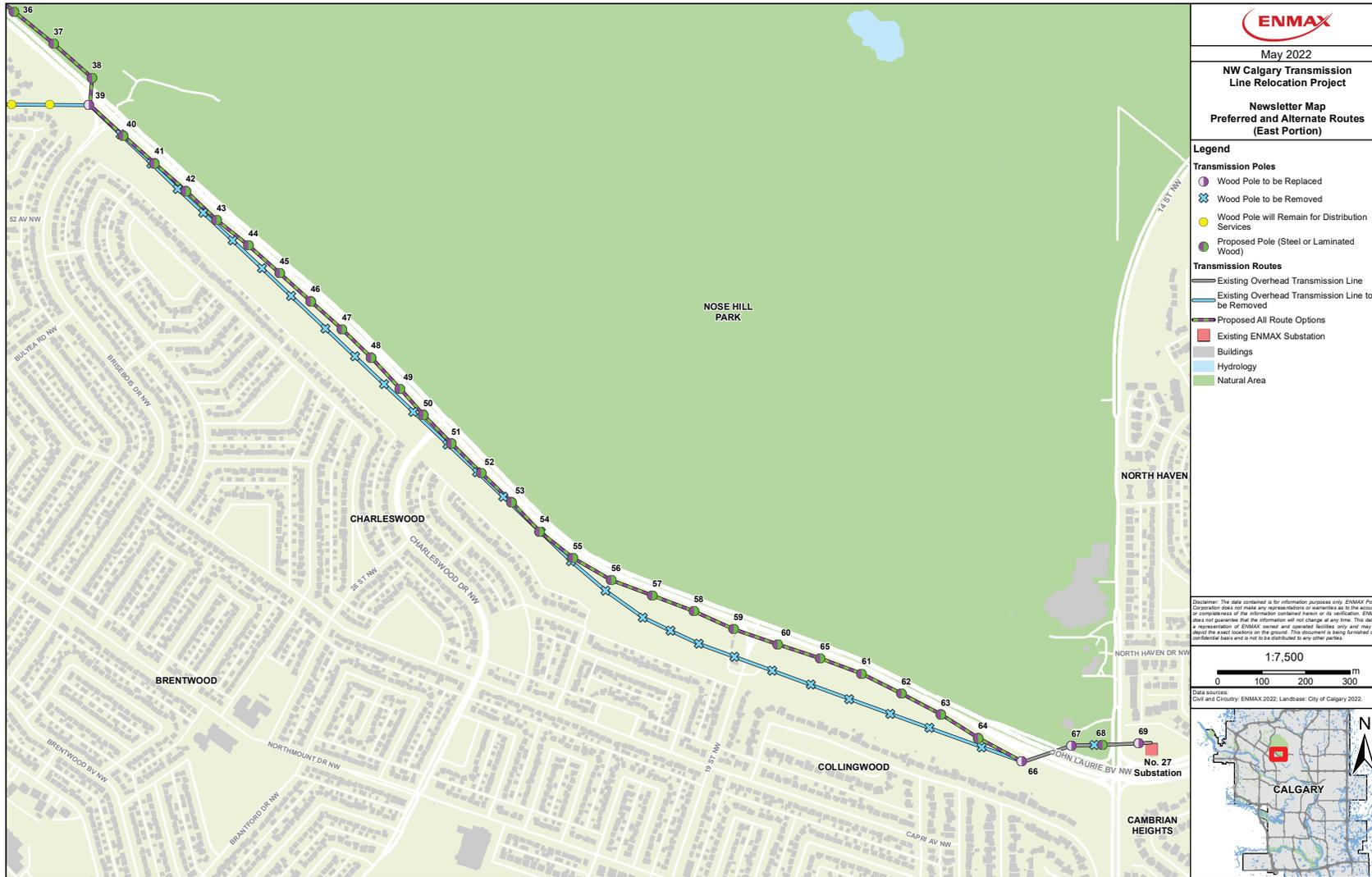
### ALTERNATE ROUTE: COMPLETE RELOCATION ROUTE (WEST PORTION)



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## Transmission Line Relocation Project

### PREFERRED AND ALTERNATE ROUTES (EAST PORTION)



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### POTENTIAL CONSTRUCTION IMPACTS

Every effort is made to minimize the effect construction work has on daily stakeholder activities. ENMAX Power follows all applicable requirements, including standards and bylaws.

#### Access

- ENMAX Power does not anticipate the need to close entire roads for the construction of this Project. Lane and pathway closures will take place periodically during construction and will be detailed in a traffic management plan to be approved by The City of Calgary. Construction will be done in segments and will be low traffic times on both weekdays and weekends, where possible.
- Private property access: for a portion of the alignment in the Brentwood area, access to fenced yards will be required. Access will be coordinated in advance with any affected residences.

#### Vegetation Management

- Trees growing too close to overhead power lines will be trimmed to maintain safety requirements. Trees in conflict with the proposed alignment may be removed to maintain adequate clearance and allow for the safe installation of 16.61L. ENMAX Power will work with The City of Calgary's Urban Forestry to determine the appropriate tree management plan.

#### Noise

- ENMAX Power will provide prior notice to stakeholders in the event of temporary increases in noise and/or minor vibrations during construction activities.

#### Power Outages

- In advance of construction, planned power outage(s) may be required to facilitate this work. If your residence is impacted, you will receive direct notification with details indicating important outage information.

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## Transmission Line Relocation Project

### TRANSMISSION STRUCTURES

The existing wood poles range in height from 9 to 20 meters. Subject to the final approved route and detailed design, the new structures will be a combination of wood poles, self-supporting steel monopoles and/or laminated wood poles. The new structures are expected to range in height from 18 to 30 meters as required to meet engineering and safety requirements.



Example of Steel Monopole



Example of Laminated Wood Pole



Example of Wood Pole

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### COMMITMENT TO COMMUNITY

We are committed to being a responsible corporate neighbour. Our commitment includes providing timely and meaningful engagement with stakeholders about our projects. We provide opportunities for stakeholders, including residents, occupants and landowners, to be informed about our projects, and to engage with us from the planning phase through construction and beyond. ENMAX Power recognizes the importance of mitigating construction impacts, where possible, and will work with affected communities to minimize our impact while completing our work safely.

### ABOUT ENMAX CORPORATION

Headquartered in Calgary, Alberta, with operations across Alberta and Maine, ENMAX Corporation (ENMAX) is a leading provider of electricity services, products and solutions. Through its subsidiaries, ENMAX Power and Versant Power, ENMAX owns and operates transmission and distribution utilities in Calgary, Alberta and northern and eastern Maine, safely and reliably delivering electricity to all Calgary homes and businesses and more than 159,000 customers in Maine. Through ENMAX Energy Corporation, ENMAX owns and operates 1,512 MW of generation and offers a range of innovative electricity, natural gas and energy services to more than 690,000 residential, commercial and industrial customers across Alberta. ENMAX is a private corporation and The City of Calgary is its sole shareholder.

### CONTACT INFORMATION

Your input is valuable to us. The ENMAX Power Stakeholder Relations team is committed to providing answers to your questions and concerns, while ensuring we document your feedback to share with the AUC as part of our Facility Application. For more information about the Project, please contact:

#### ENMAX POWER CORPORATION

**Phone:** 403-514-1471

**E-mail:** [stakeholderrelations@enmax.com](mailto:stakeholderrelations@enmax.com)

**Website:** [enmax.com/nwcalgaryproject](http://enmax.com/nwcalgaryproject)

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To learn more about the regulatory process, please contact:

#### ALBERTA UTILITIES COMMISSION

**Phone:** 403-310-4282

**Email:** [info@auc.ab.ca](mailto:info@auc.ab.ca)

**Website:** [auc.ab.ca](http://auc.ab.ca)