

2018 - Project Assessment Form



Project Name AYL-OHCONV-Caverly Rd. to McBrien Stn.

Municipality Aylmer
 Cost Category Capital
 Project Type Enhancement

General Information

Project Description
 (Scope, Objective, Outcome)

This project will extend the 28kV system from South St. to the McBrien substation, thus eliminating the requirement for the Edgeware M3 feed into Aylmer (i.e. all ETPL load in Aylmer would be supplied from the more reliable, newly constructed Aylmer TS) As a result, EPTL will not incur distribution charges from HONI DX leading to O&M savings.

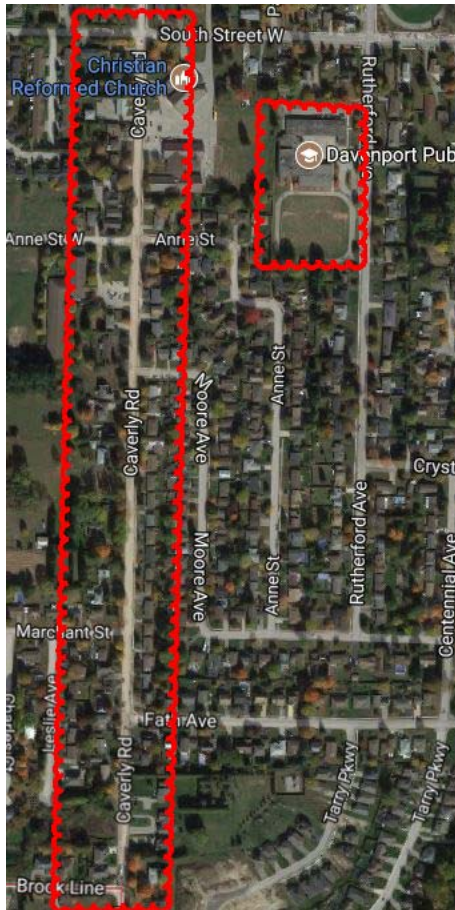
In addition it will also address a number of asset related issues. A primary benefit will be the conversion of the supply to the Davenport Public School, which is currently supplied with an overhead primary line through both rear yard and school yard construction which is a known safety concern. New poles to be installed from South St. to Anne St. and existing poles will be maintained from Anne St. to Fath Ave. with new 28kV insulators. Marchant St. will be supplied through a stepdown pole mounted transformer.

All services supplied within the project scope will be converted to 28kV which will continue to reduce the loading of the McBrien substation. Lastly the primary metering equipment can be removed from the Edgeware M3 supply again reducing O&M costs.

Preliminary Project Information

Age of Plant: >50 years
 Primary Voltage: 4kV
 Pole Type: Wood
 Area Description: School Area

Construction Standards: Legacy
 Primary Conductor: 3/0 ACSR
 Secondary Conductor: Open Bus
 Traffic Volume: Low



2018 - Project Assessment Form



Project Name AYL-UGCONV-Talbot St.-Myrtle St. to Wellington St.

Municipality Aylmer
 Cost Category Capital
 Project Type Enhancement

General Information

Project Description

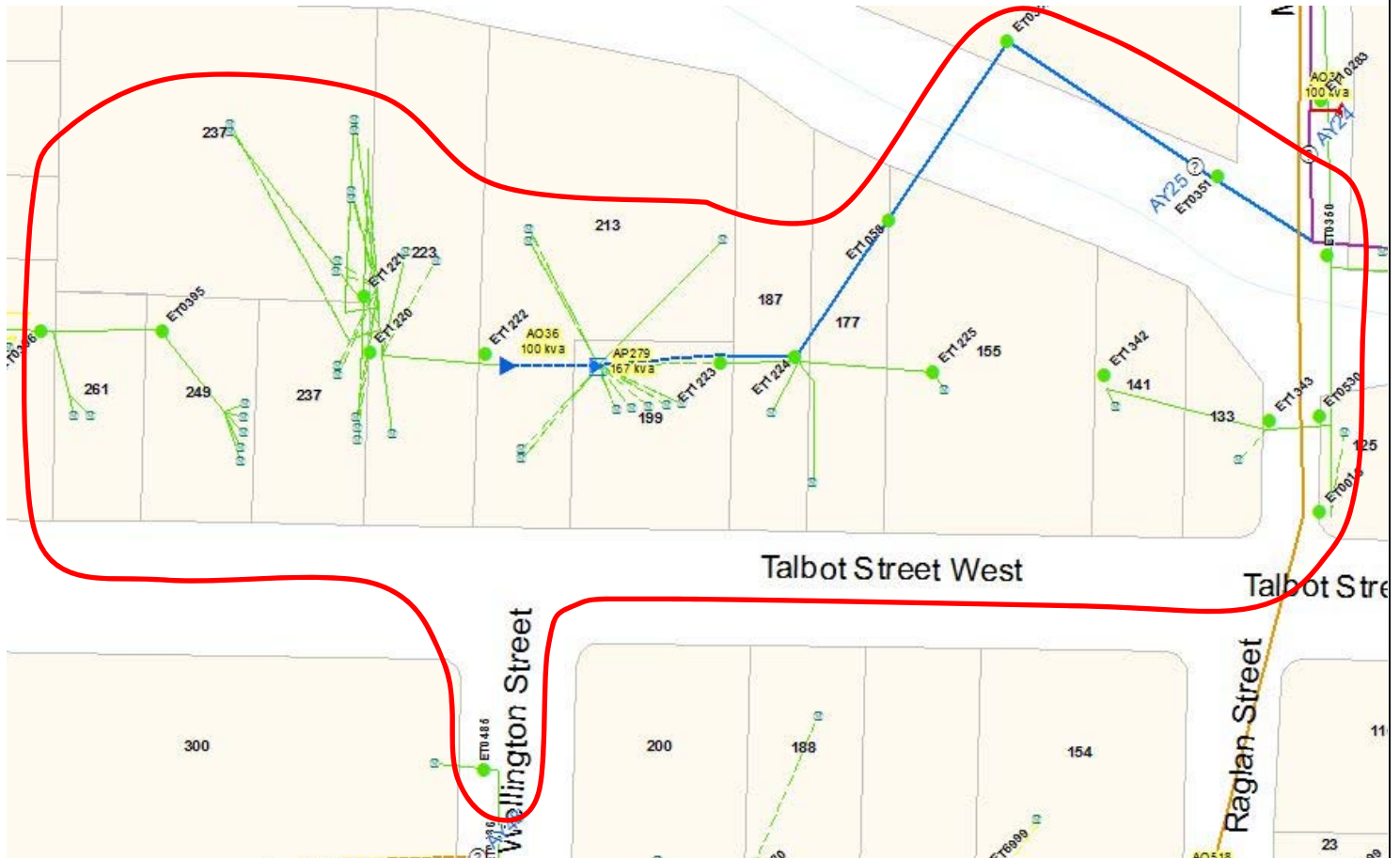
This project looks to remove an end of life, rear yard, 4kV pole line and replace it with an underground system along Talbot St. The project has been deferred since 2016 to coordinate with the Town of Aylmer who is performing road works in the area in 2018. A single phase supply will be taken from the corner of Myrtle & Talbot St. and tie into Wellington Street; the majority of the duct required for the project has already been placed in the past and some directional boring will be required.

The greatest benefit will be the removal of an overhead rear yard primary line thus eliminating a possible safety concern, and it will also remove further 4kV load from the municipal substation. It also demonstrates the improved efforts of both ETPL and our municipal partners with regards to coordinated capital projects when possible.

Preliminary Project Information

Age of Plant: >50 years
 Primary Voltage: 4kV
 Pole Type: Wood
 Area Description: Downtown

Construction Standards: Legacy
 Primary Conductor: 1/0 ACSR
 Secondary Conductor: 3/0 Triplex
 Traffic Volume: High



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Project Name

AYL-OHCONV-Myrtle to John w/ Pool

Municipality
Cost Category
Project Type

Aylmer
Capital
Enhancement

General Information

Project Description

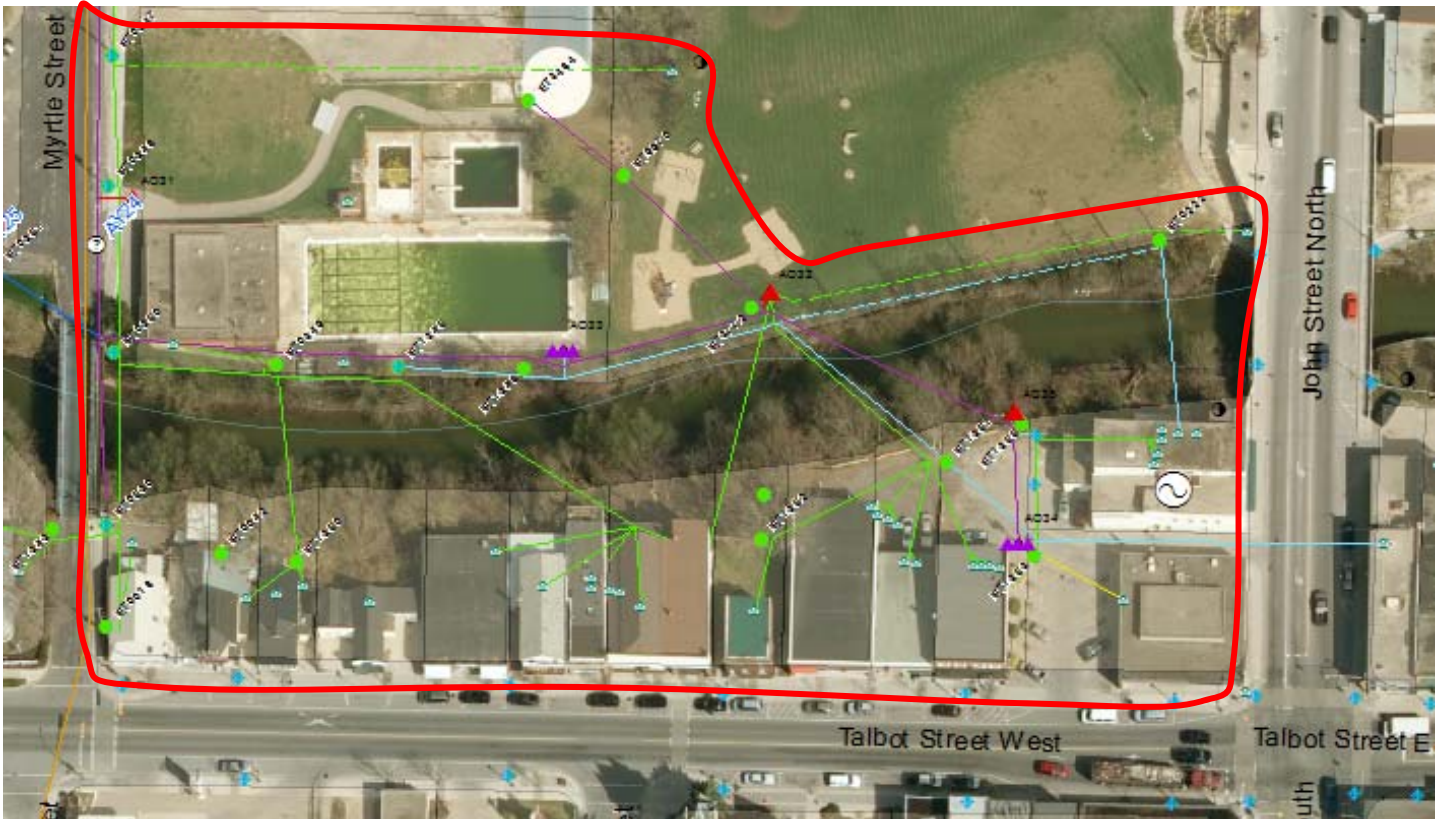
This project aims to rebuild a downtown area that also currently supplies the public pool. The area will be rebuilt and converted with a combination of OH and UG construction. It will eliminate OH lines in close proximity to the public pool and reduce the number of river crossings. The project will consist of U/G primary through the park to an O/H river crossing which will supply a three phase padmount in the rear of the Royal Bank parking lot. It will supply the three phase pool service from Myrtle and will result in a number of primary poles being replaced by secondary service poles.

The primary driver of this project is to remove overhead primary conductor through the pool/park area which will eliminate a possible public safety concern. It also continues the efforts to reduce load on the Aylmer municipal substations.

Preliminary Project Information

Age of Plant: >50 years
Primary Voltage: 4kV
Pole Type: Wood
Area Description: Water Shed

Construction Standards: Legacy
Primary Conductor: 3/0 ACSR
Secondary Conductor: 3/0 Triplex
Traffic Volume: Medium



2018 - Project Assessment Form



Project Name

CLI-OHCONV-George St. & Don St.

Municipality
Cost Category
Project Type

Clinton
Capital
Enhancement

General Information

Project Description

This project will convert approximately 40 residential & 1 industrial customers while continuing to develop the 28kV supply loop in the Town of Clinton. The poles that will be replaced in this project have been identified as end of life and multiple poles have failed pole testing. The project will also extend the 28kV system to the end of Don Street which has a residential development planned for 2018.

Preliminary Project Information

Age of Plant: 10-20 years
Primary Voltage: 4kV
Pole Type: Wood
Area Description: Residential

Construction Standards: Legacy
Primary Conductor: 5kV UG Cable
Secondary Conductor: Choose an item.
Traffic Volume: Low



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Project Name

MIT-OHCONV-Step Down TX-Arthur St.

Municipality
Cost Category
Project Type

Mitchell
Capital
Enhancement

General Information

Project Description

This project will facilitate the removal of the Mitchell MS by installing a three phase stepdown (“rabbit”) transformer to supply the remaining 4kV load in Mitchell. This stepdown will allow the station to be removed quicker than converting the remaining six (6) streets and will enable ETPL to focus capital spending on areas in more need. The step down will be installed on a pole on Arthur St. where the existing 28kV taps off of the main line.

The greatest benefit will be the elimination of the Mitchell MS, eliminating the need for yearly maintenance and applicable O&M costs. It also provides a more reliable supply for the remaining 4kV load as the substation was at or near its end of life. In addition we will be able to remove primary lines through the rear yard that currently supply and egress from the station.

Preliminary Project Information

Age of Plant: 40-50 years
Primary Voltage: 4kV
Pole Type: Wood
Area Description: Residential

Construction Standards: Legacy
Primary Conductor: Choose an item.
Secondary Conductor: Choose an item.
Traffic Volume: Low



2018 - Project Assessment Form



Project Name	AYL-OHCONV-Bank of Montreal & Community Living	Municipality	Aylmer
		Cost Category	Capital Enhancement
		Project Type	

General Information

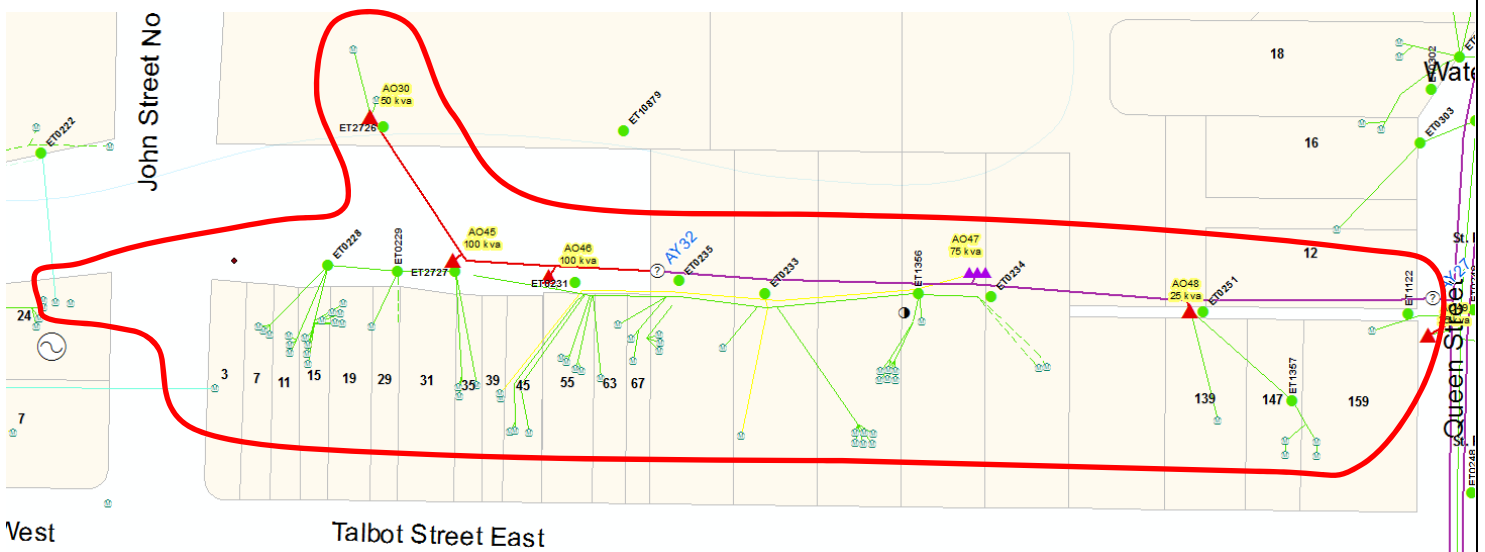
Project Description

This project will rebuild a backyard portion of downtown Aylmer including the Bank of Montreal and Community Living services which will be supplied from infrastructure east of John St. N. Unfortunately this portion of line will not be converted at this time however will be constructed to 28kV standards to facilitate minimal conversion efforts in the future. Completion of this project will allow for the backyard infrastructure west of John St. N. to be converted in 2018 which involves a public park & pool and end of life assets.

The largest benefit to completing this project is to continue conversion efforts in Aylmer to further reduce the load on the ageing municipal substations. The project also addresses end of life assets in poor condition.

Preliminary Project Information

Age of Plant:	30-40 years	Construction Standards:	Legacy
Primary Voltage:	4kV	Primary Conductor:	1/0 ACSR
Pole Type:	Wood	Secondary Conductor:	3/0 Triplex
Area Description:	Downtown	Traffic Volume:	Medium



Project Assessment Form



Project Name

OTT-OHCON-Grove & Maple St.

Municipality
Cost Category
Project Type

Otterville
Capital
Enhancement

General Information

Project Description

This project will be completed in conjunction with the DeWachter subdivision on North Street in Otterville. The existing supply to the area is an undersized, end of life pole line which would need to be rebuilt to properly service the planned development on the north side of North Street. As with all new residential developments, the preferred servicing method is underground and the majority of the existing services on the south side of the street are underground. Due to this configuration it was decided that North Street would be constructed underground and Erie Thames Powerlines will contribute to the work required to service the customers on the south side of the street. ETPL will also contribute to a pole line upgrade on both Grove & Maple Streets, with the developer contributing to the north side servicing and riser poles required for the development.

The greatest benefit to completing this project will be to replace end of life assets and properly enable development.

Preliminary Project Information

Age of Plant: 40-50 years
 Primary Voltage: 4kV
 Pole Type: Wood
 Area Description: Residential

Construction Standards: Legacy
 Primary Conductor: 1/0 ACSR
 Secondary Conductor: Open Bus
 Traffic Volume: Low

