

**← STAGE
ETAPE →** 

Q4 2019 Update



SOUTH EXTENSION
PROLONGEMENT **SUD**

O-Train South Design Update

- The City is reviewing **final** designs of the following projects:
 - Airport Station;
 - Vehicle Branding (Livery); and,
 - Structural details for rail bridges along the alignment.
- The City is reviewing **preliminary** designs for the following project elements:
 - Sections of trackwork;
 - Uplands, Leitrim, Limebank and Bowesville Stations;
 - Structural details for some rail bridges along the alignment;
 - Vehicle Elements (Interior Design, Brake System, etc.); and,
 - Communications Systems (CCTV, Access Control, etc.).

Uplands Station



Leitrim Station



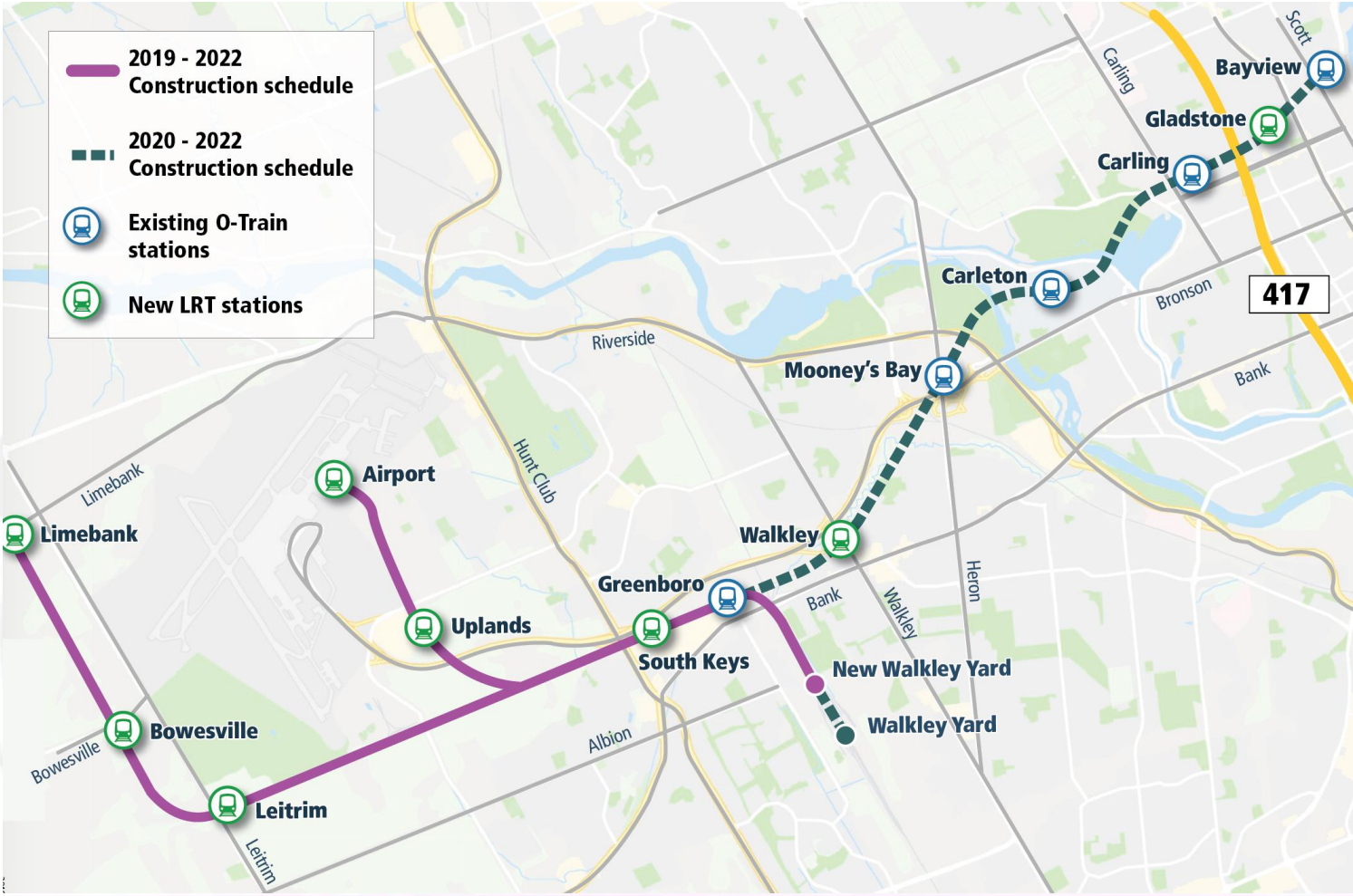
Bowesville Station



Limebank Station



Construction



O-Train South Construction Progress

STAGE
ETAPE



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Walkley Maintenance & Storage Facility

- Preparatory works such as surveying, clean up, trackwork and fencing are complete; and,
- Foundation excavation is underway.



Walkley Maintenance & Storage Facility *(Cont'd)*

- Helical pile installation is underway to support the facility foundation.



Walkley Maintenance & Storage Facility *(Cont'd)*



Airport Link

- Excavation, grading, culvert installation, and embankment construction are ongoing on the Airport Link;
- Preliminary foundation work is visible from the Airport Parkway and from Uplands Drive;

Airport Link (Cont'd)

Airport Link
Guideway



North Prescott
Track (access to
National Research
Council Test
Facility)



Airport Link Embankment Construction

Airport Parkway
Ottawa

Airport Link
Guideway

Embankment



Airport Link (Cont'd)

- Uplands Drive Rail Bridge:
 - Caisson drilling (the caisson forms the foundation for the bridge columns) is complete; and,
 - Column construction is underway.
- Airport Parkway Rail Bridge:
 - Caisson drilling is currently underway.

Caisson Drilling



Caisson Drilling (Cont'd)



Rebar Lift

Concrete Pour



Pier Construction



Leitrim Station To Bowesville Station



Guideway
Excavation



Bowesville Station To Limebank Station



4736 Bowesville Road
Ottawa



Guideway
Construction



Rail Delivery



Upcoming Q1 2020 activities

- Tree clearing from Bayview Station to Limebank Station;
- Pillar construction at Uplands Drive and Airport Parkway Rail Bridges;
- Commencement of Airport Link guideway construction;
- Commencement of Walkley Maintenance and Storage Facility structure construction;
- Utility relocation at Lester Road and Leitrim Road; and,
- Caisson construction at Bowesville and Earl Armstrong Rail Bridges.



EAST EXTENSION
PROLONGEMENT **EST**

2

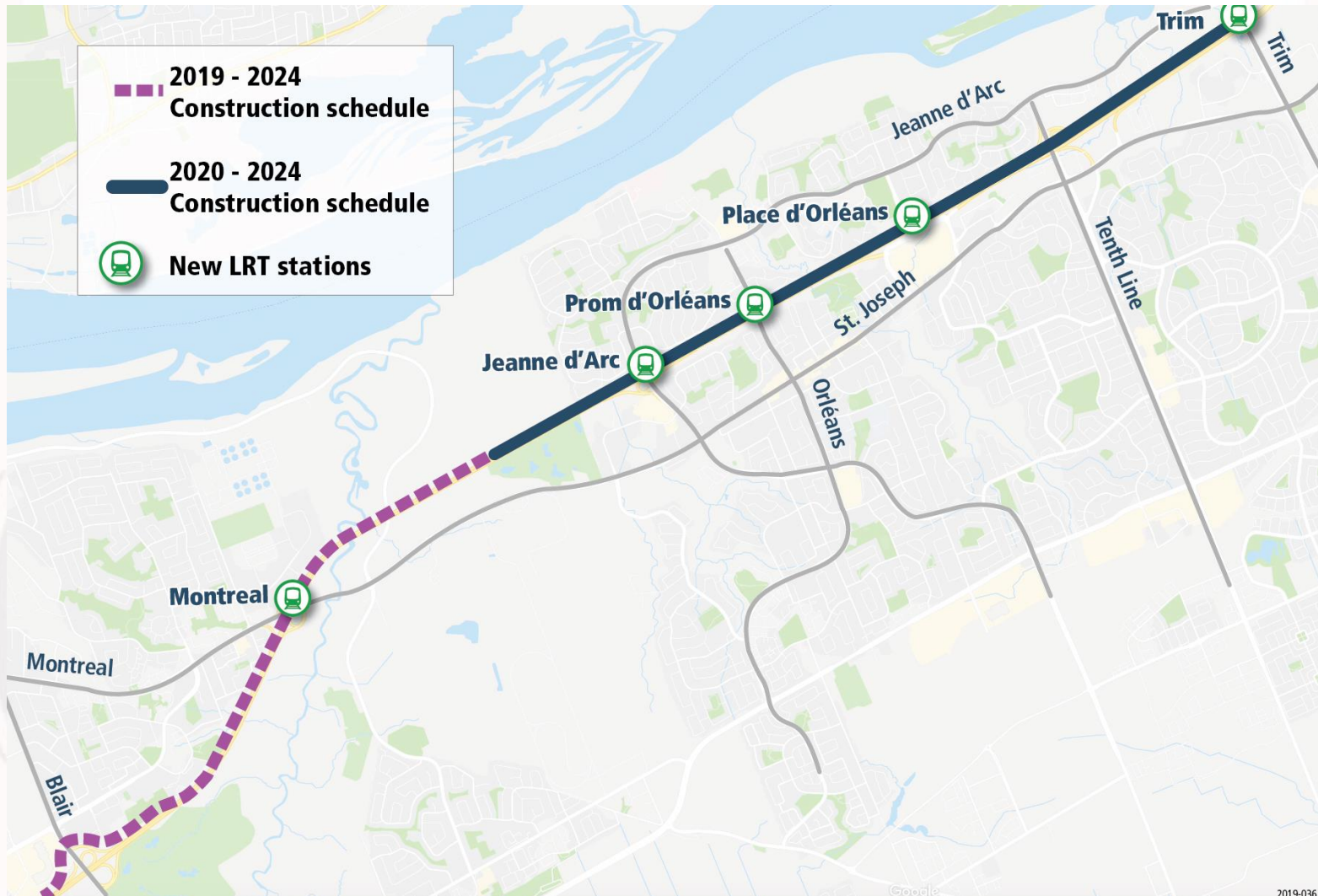
O-Train East Design Update

- The City is reviewing **construction drawings** of the following project elements:
 - Track East – Alignment and Profile;
 - Utility east expansion – Water, wastewater and stormwater work; and,
 - Montreal Road overpass.
- The City is reviewing **final designs** for the following project elements:
 - Roadway Drainage;
 - Overall designs for utility west expansion; and,
 - Greens Creek culvert.

O-Train East Design Update (*cont'd*)

- The City is reviewing **final designs** of the following project elements:
 - Roadway Drainage;
 - East Traction Power Substation;
 - Jeanne D'Arc Station;
 - Place D'Orleans Station; and,
 - Trim Station.

Construction



2019-036

O-Train East Construction Progress

- Highway 174 reconfiguration underway between Blair and Sir George Etienne Parkway;
- Tree and vegetation clearing is approximately 70% complete; and,
- Highway 174 / Montreal Road interchange widening.

Highway 174 Interchange Widening

- Crews are widening the Highway 174 footprint to create enough space within the median for the future O-Train East extension;
- Eastbound lanes will be shifted south and westbound lanes will be shifted north, included access ramps in certain areas; and,
- Existing lane configuration will be maintained (two vehicular lanes and one transit facility) during peak periods with lane closures taking place off-peak.

Highway 174 Montreal Road Interchange



Upcoming Q1 2020 Activities

- Montreal Bridge preparatory works:
 - Installing excavation support (retaining structures) at Montreal Road Interchange; and,
 - Drill shaft for abutments.
- Highway 174 reconfiguration work to continue; and,
- Watermain replacements at Shefford Road and Jeanne D'Arc Boulevard.



WEST EXTENSION
PROLONGEMENT **OUEST**

2

O-Train West Design Update

- The City is reviewing **Construction Drawings** for the following project elements:
 - Track West – Alignment and Profile;
 - Track light maintenance and storage facility – Alignment and Profile;
 - Utility west expansion – Water, wastewater and stormwater work;
 - Sir John A. Macdonald Parkway detour; and,
 - Carleton Avenue & Cleary Avenue pedestrian overpass structures.

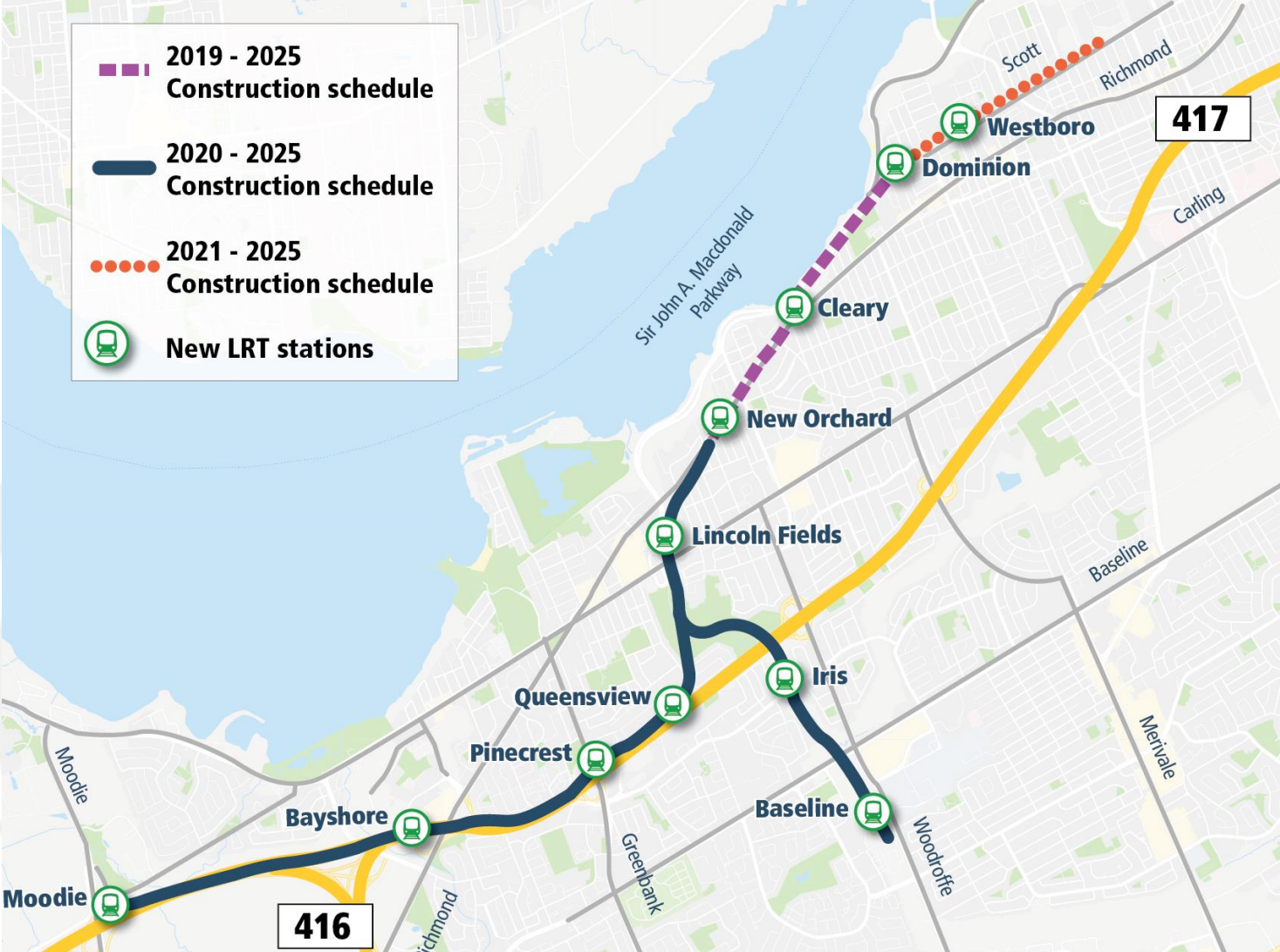
O-Train West Design Update (*Cont'd*)

- The City is reviewing **Final Designs** for the following elements:
 - Woodroffe Stormwater Pond;
 - Churchill Avenue pedestrian overpass & Lanark Avenue pedestrian overpass;
 - Goldenrod bridge; and,
 - Lincoln Fields elevated rail “flyover” structure.

O-Train West Design Update (Cont'd)

- The City is reviewing **Preliminary Designs** for the following project elements:
 - Sections of Roadway Drainage;
 - Light Maintenance and Storage Facility Design – overall design and Transfer Power Substation design;
 - Highway 417 Ramps – Pinecrest, Moodie & Richmond/Holly Acres – Overall design;
 - Lincoln Fields Station;
 - Baseline Station;
 - Queensview Station;
 - Pinecrest Station; and,
 - Moodie Station.

Construction



Tree & Vegetation Clearing

- Clearing is currently underway at the following locations:
 - Baseline and Iris Station;
 - Connaught Avenue and Southwest Transitway;
 - Pinecrest Station; and,
 - Byron Linear Park (between McEwen and Cleary Avenue).
- Clearing is planned for the following locations:
 - Moodie Light Maintenance and Storage Facility;
 - Bayshore Station;
 - Lincoln Fields Station; and,
 - Sir John A. Macdonald Parkway.

Tree Clearing At Iris Station



Tree Mitigation & Replacement Strategy

- An overall average **tree replacement ratio of 2:1 (two trees for every one removed)** will be replanted within Stage 2 project limits;
- When tree removal is unavoidable, trees are documented based on size and species;
- In some cases where a large diameter tree is removed, a higher replacement ratio will be applied; and,
- Area restoration, tree replacement and greenspace re-seeding will be completed as part of the final works.

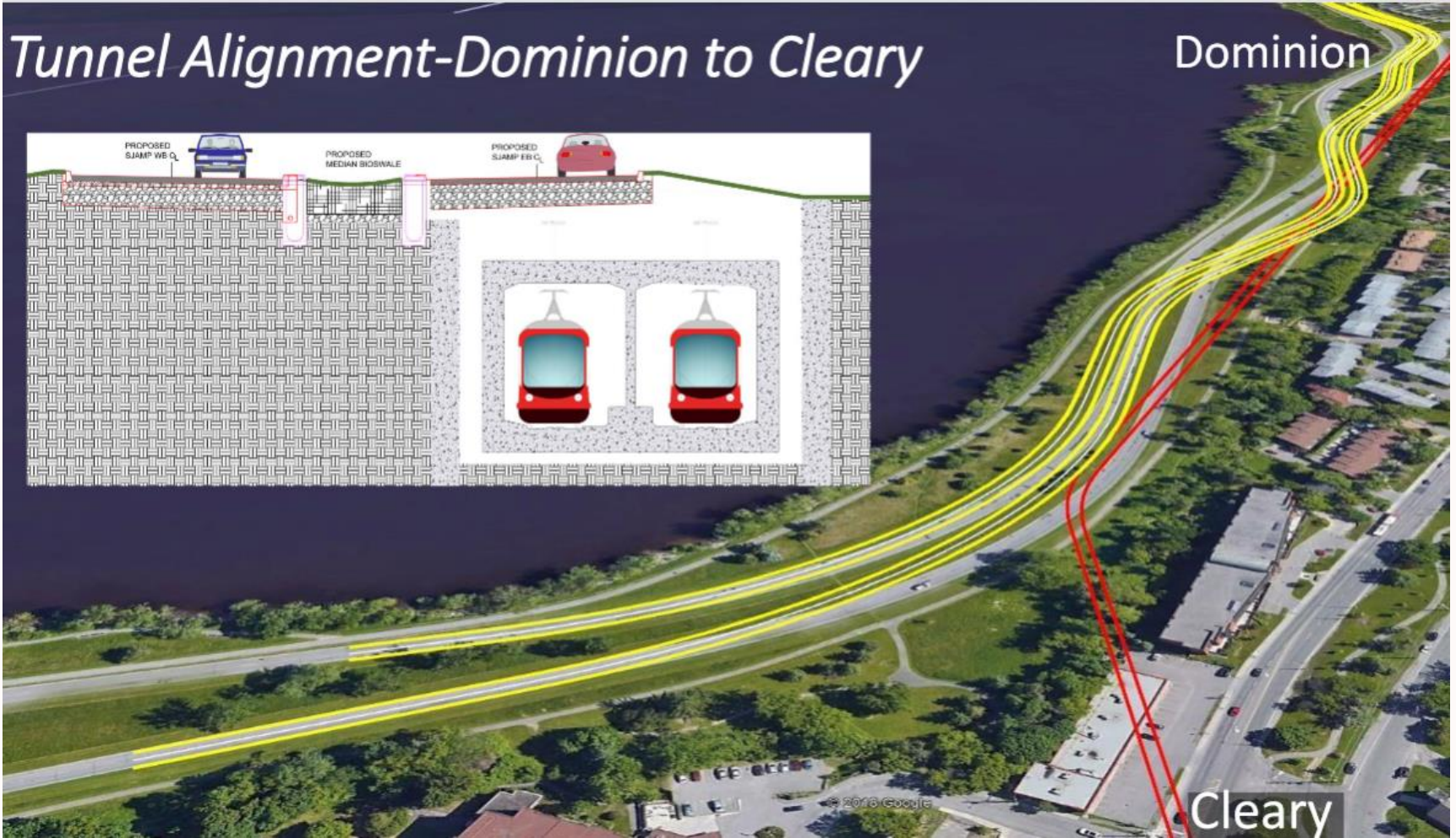
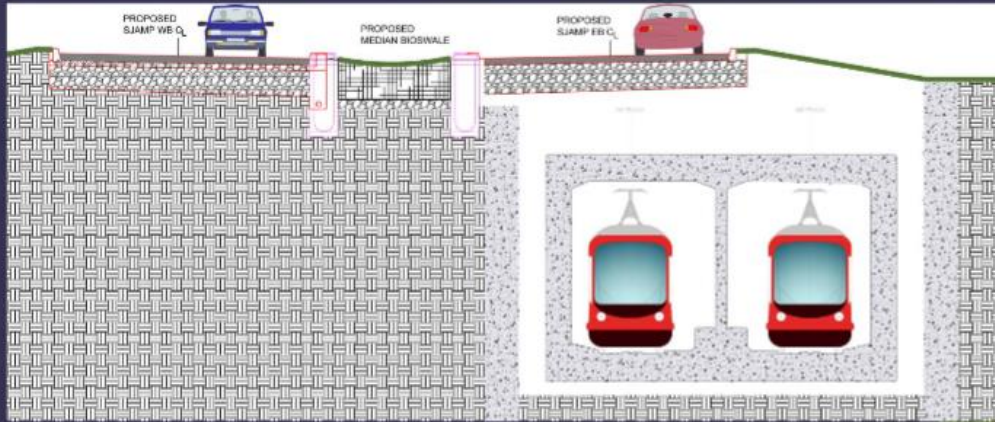
O-Train West Tunnels



Future Sir John A. Macdonald Parkway

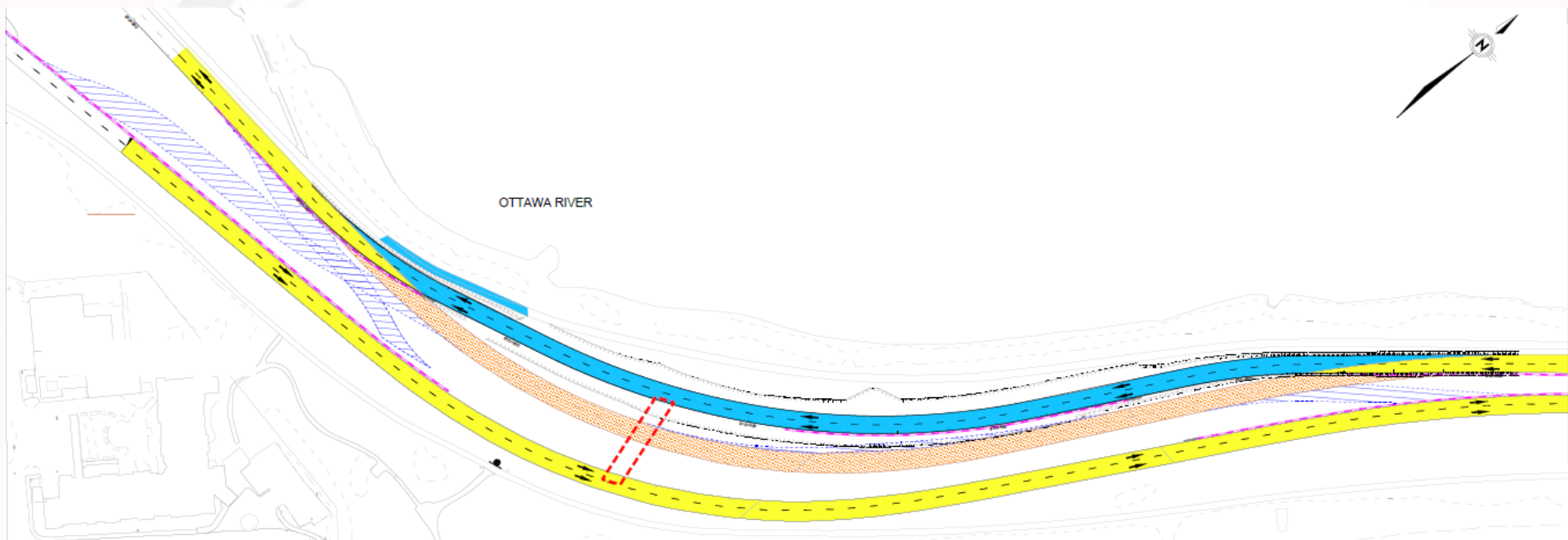
Tunnel Alignment-Dominion to Cleary

Dominion



Sir John A. Macdonald Parkway Reconfiguration

- Traffic has shifted to temporary westbound traffic lanes; and,
- Temporary eastbound traffic lane construction will resume in the spring of 2020.



Sir John A. Macdonald Parkway Temporary Westbound Lanes



Upcoming Q1 2020 Activities

- Pinecrest Stormwater Pond construction to begin once Environmental Compliance Approval permit is received;
- Iris Culvert Preparatory Work;
- Hydro Pole & Bell Line relocation in Byron Linear Park; and,
- Carling Avenue utility relocation nearby Lincoln Fields Station.

Stage 2 Alstom Citadis Vehicles

- RTG is providing 38 additional Alstom Citadis vehicles to ensure the expanded Stage 2 Confederation Line operates as a single, uniform service;
- Prior to introducing vehicles into passenger service, new vehicles will have to prove they are reliable during a testing period that will occur during late night hours/weekends on the mainline; and,
- Test vehicles will be easily identifiable through the use of temporary decals to ensure passengers are aware the vehicle is not in service.



Stage 2 Alstom Citadis Vehicle Testing



Status Of Stage 2 Alstom Citadis Vehicles

Of the 38 Stage 2 Alstom Citadis Vehicles:

- 24 vehicles are awaiting production;
- 8 vehicles in production; and,
- 6 vehicles are undergoing testing.



Information Sessions

- Stage 2 drop-in information sessions are planned to occur in December through to early 2020.
- Each session will provide a project overview and cater to a specific geographic area:
 - Cleary Station to Lincoln Fields Station (December 3, 2019);
 - Blair Station to Trim Station (December 5, 2019);
 - Westboro Station to Dominion Station (December 9, 2019);
 - Iris Station to Baseline Station (December 11, 2019);
 - Lincoln Fields 'Flyover' Bridge to Moodie Station (December 12, 2019);
 - South Keys Station to Airport Station and Limebank Station (2020 TBD); and,
 - Bayview Station to Greenboro Station (2020 TBD).
- Staff continue to engage with Councillors, Transit Commissioners and community stakeholders as work progresses.



Questions?

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