

**← STAGE  
ETAPE →**  **→**  
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**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



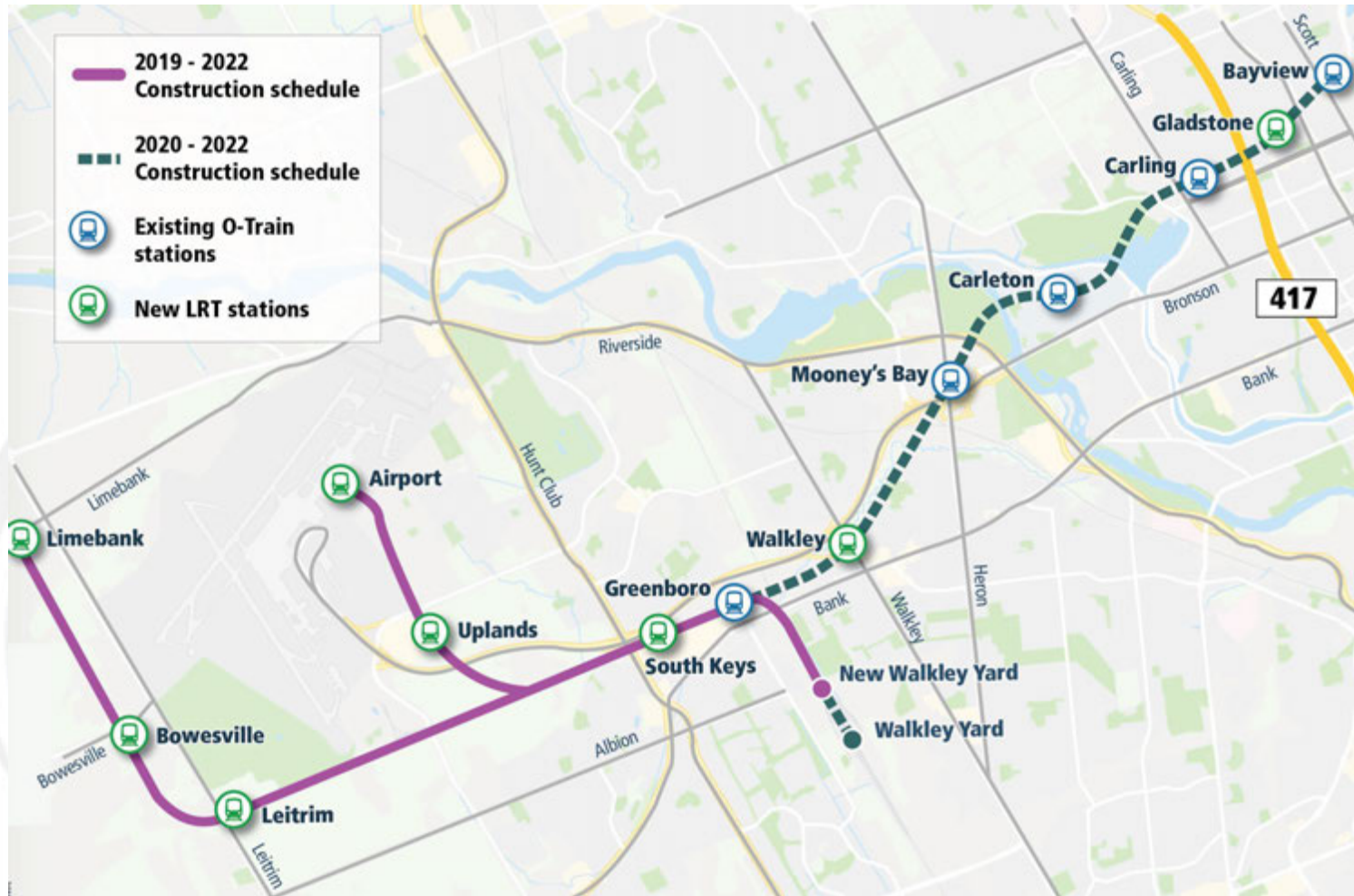
# Bowesville Station



# Limebank Station



# Construction



# 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)*

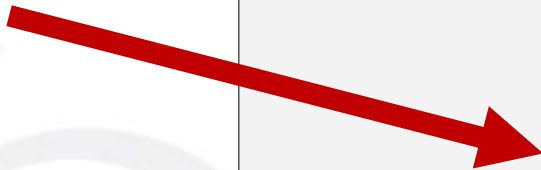


# Airport Link

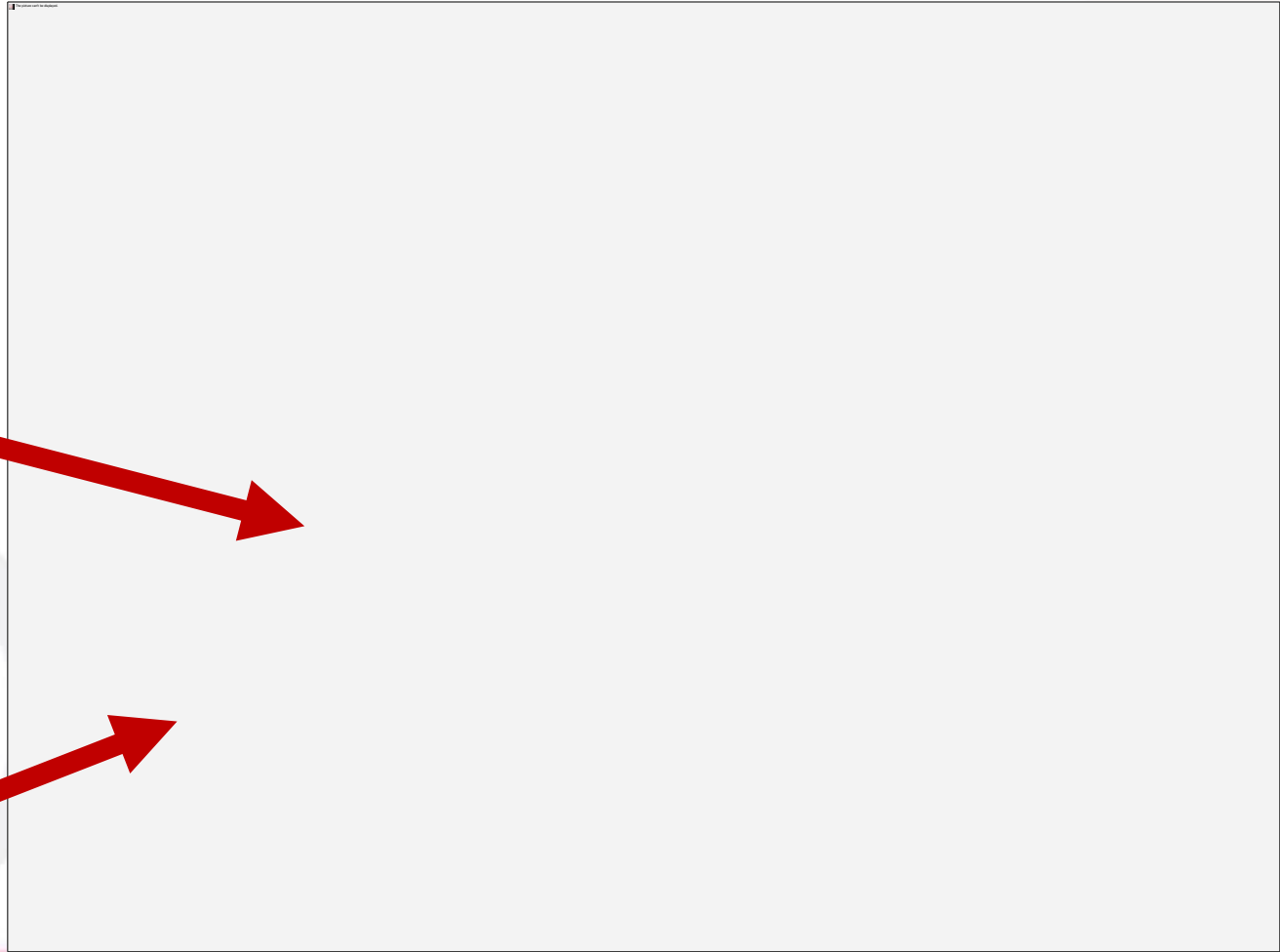
- Excavation, grading, culvert installation, and embankment construction are ongoing on the Airport Link;
- Preliminary foundation work is visible from the Airport Parkway and from Uplands Drive;

# 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)



# 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

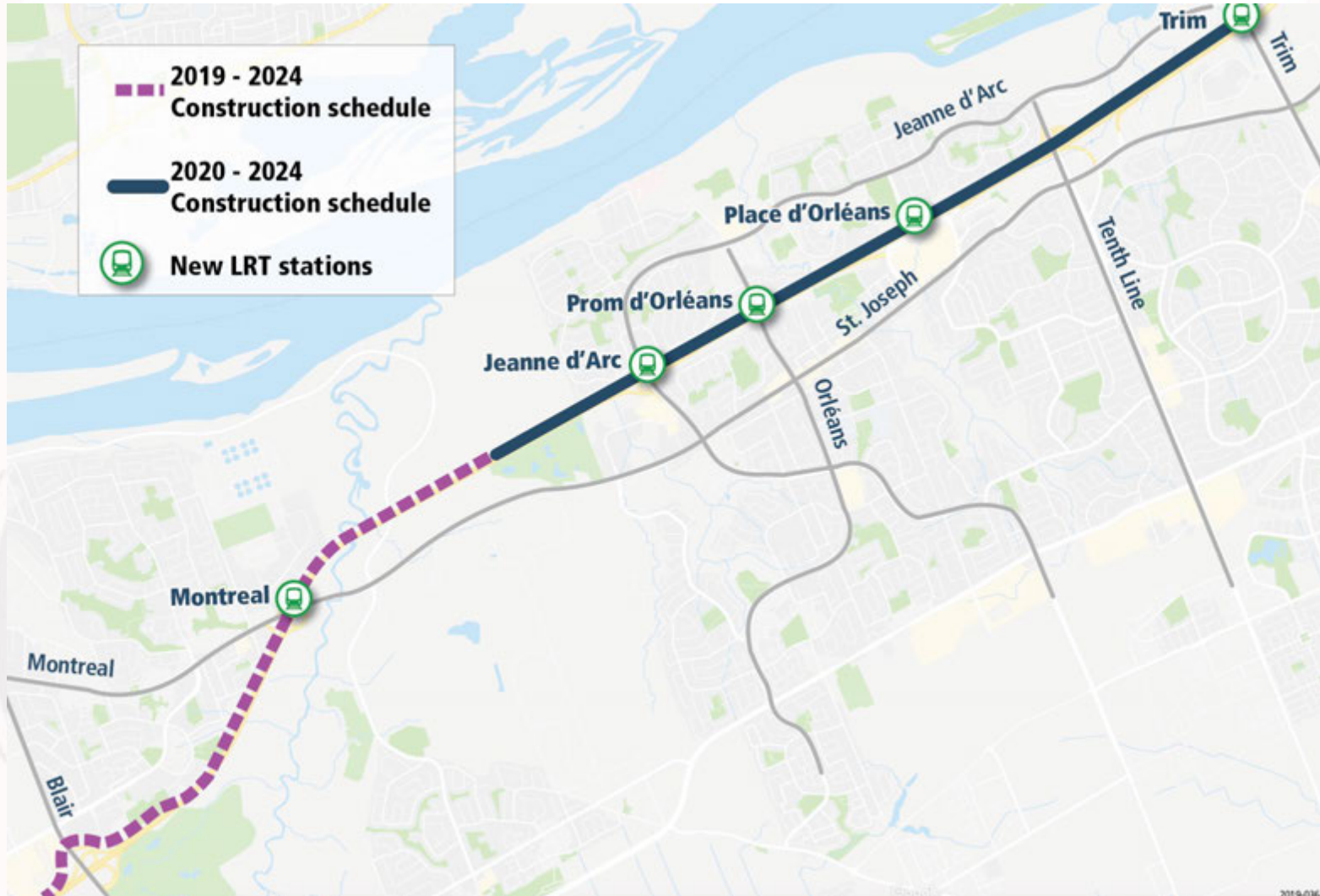
# O-Train East Design Update

- 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



# 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.

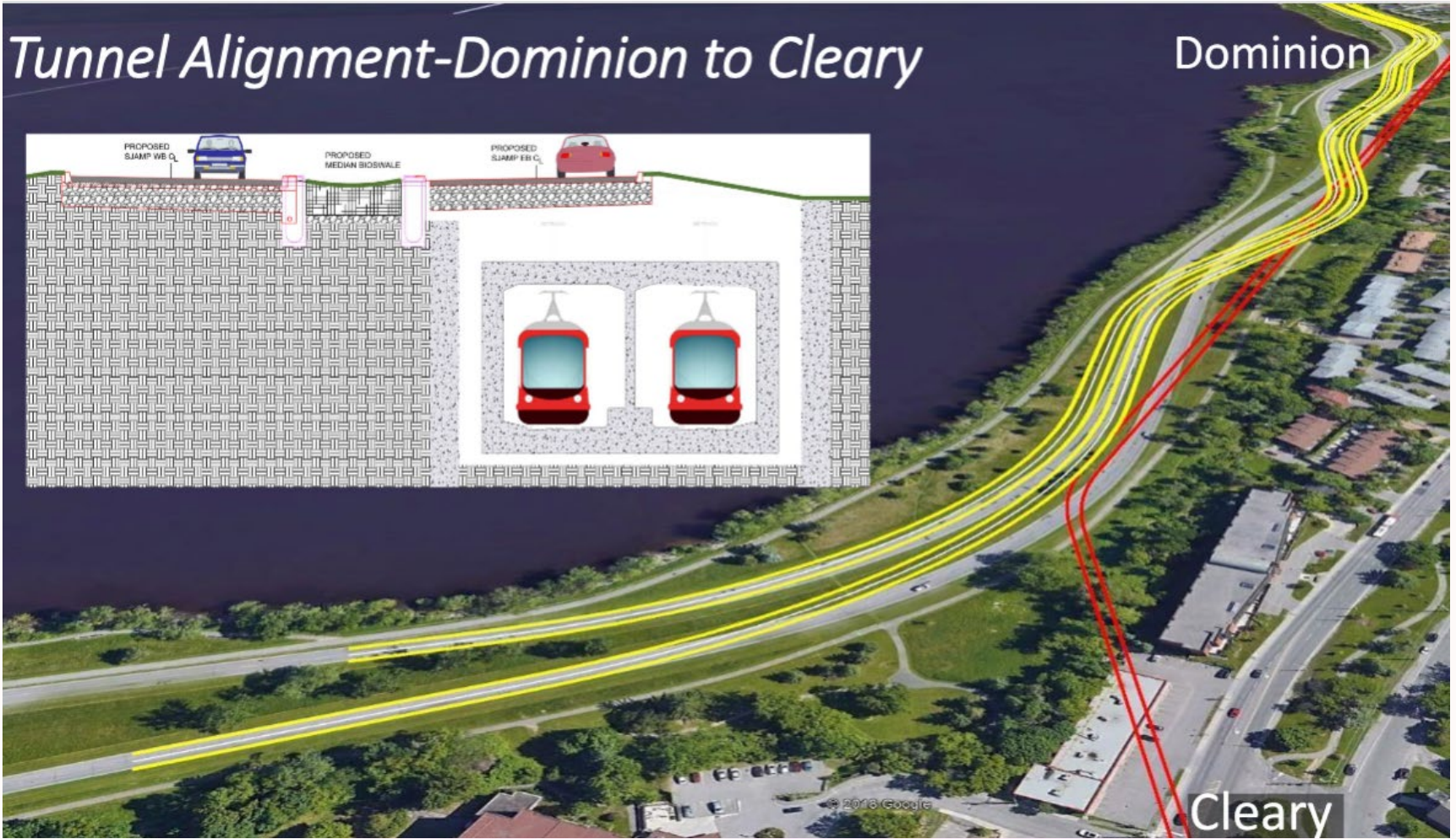
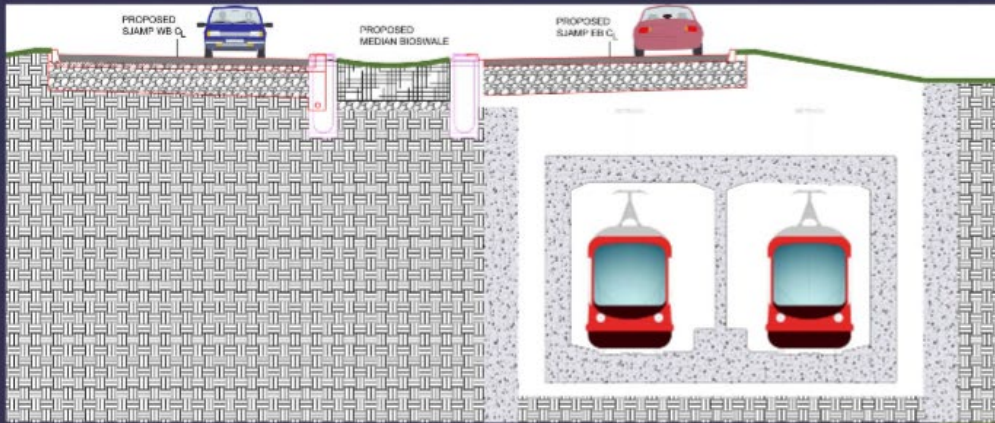
# O-Train West Tunnels



# Future Sir John A. Macdonald Parkway

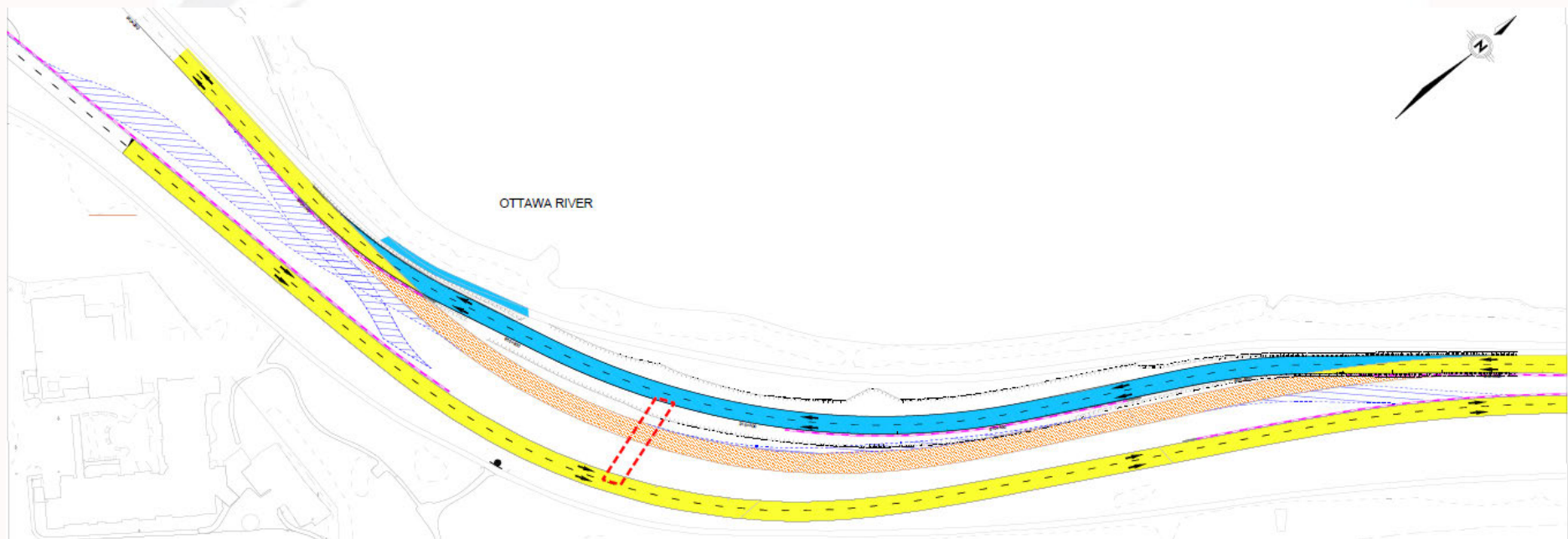
*Tunnel Alignment-Dominion to Cleary*

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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