

Ottawa's Light Rail Transit Project



Design, Build, Finance and Maintenance of the Confederation Line

December 12, 2012

Presentation to Committee of the Whole



Capacity and Growth

- Ottawa's transit ridership is expected to grow from 9,300 people per hour per direction today to 18,000 by 2031
- Confederation Line accommodates this capacity
- Further, the system has been designed to have capacity up to 24,000 people per hour per direction with small alteration
- Confederation Line can accommodate LRT expansions, West, South and East.





Station Connectivity





The Confederation Line was designed to provide an attractive lifestyle choice as well as a transportation option for the community







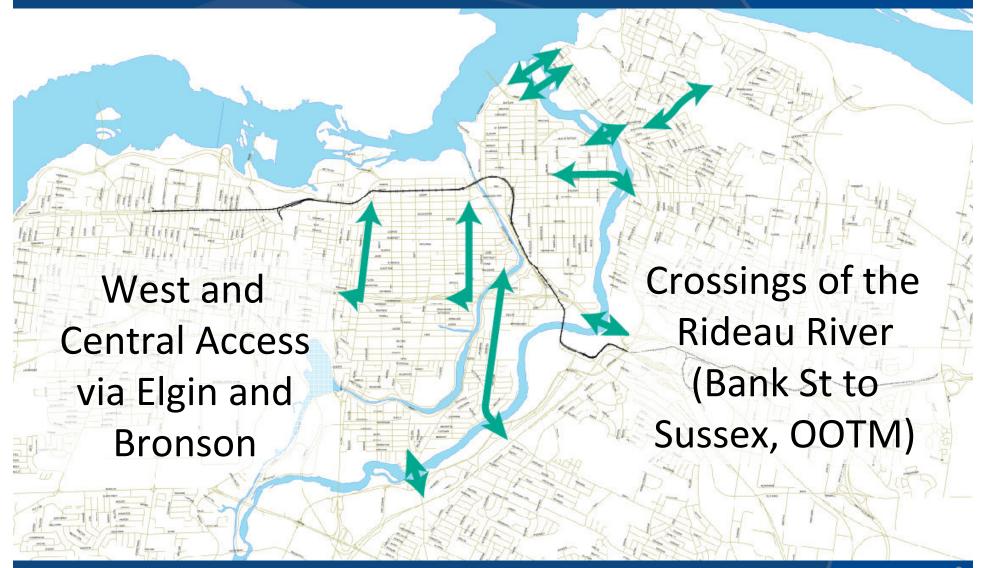
 Council has made several decisions over the last two years that minimizes mobility impacts to residents during

Confederation Line construction:

- major arterial road works
- Highway 417 widening
- Scott/Albert widening
- Increasing O-Train frequency
- Routing bus service on the Strandherd-Armstrong Bridge
- Investments in cycling infrastructure
- City-wide Transportation System Management Program









Mobility Matters

- Mobility Matters was built into the Project
 Agreement to influence the bidder's approach to
 maintaining a high level of service during
 construction
- Each lane closure requirement was subject to a lane rental charge for each hour of affected block of roadway or Transitway segment and this cost was added to bids for evaluation purposes.
- This incented the proponents to minimize road closures in the development of their construction plan/scheduling.



- As a consequence of Mobility Matters RTG's proposal minimizes impacts to OC Transpo service through the following:
 - Accelerated completion of the Highway 417 widening
 - Reduced number of extra buses and hours of service required through an efficient construction staging plan
 - Used transit priority measures that minimize transit trip times and the additional fleet required to support service



 Make additional traffic camera available to the City's Transit Control Centre to assist in service monitoring and control



- Provide a staging area for westbound express buses during peak times in the northwest quadrant of the Highway 417/Vanier Parkway interchange
- Provide a staging area for three buses throughout the day near Laurier Station



Transportation to/from West

 An alternate western BRT will be created with dedicated bus lanes on the widened Scott Street and temporary stop facilities will be installed on Scott Street at Bayview station and Booth Street

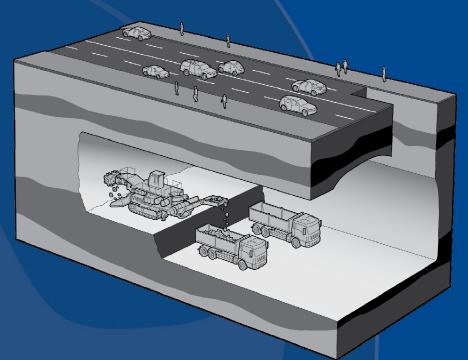
 The Transitway between Tunney's Pasture and Bayview Stations will remain open while the Bayview Bridge works are underway



Transportation in Central Area

 The tunnel subsurface mining technique will minimize lane closure requirements

 Some sidewalk closures will be required, temporary pedestrian paths will be installed as needed





Transportation in Central Area

- Detour arrangements
 proposed in the vicinity of
 Laurier and Campus Stations
 will allow the Transitway to
 operate through both of these
 stations with minor delays until
 the spring of 2016
- Post 2016 dedicated lanes on Nicholas will provide for an alternative BRT bypassing Campus Station



LIMITED SERVICE STATION



Transportation to/from East

- While Campus station is closed, Laurier station will serve the University of Ottawa and Sandy Hill; a bus lay-up area will be provided on Laurier Avenue near Laurier Station, with capacity for three buses
- BRT services will use the widened Highway 417/174 lanes between Blair and Nicholas only once it becomes necessary to close Lees station and the Hurdman Bridge



Ottawa on the Move

 Ottawa on the Move will now also keep residents informed of construction impacts of Confederation Line and other infrastructure projects and will provide mobility options

Associated mobility tools will be launched in mid

2013









Noise and Vibration



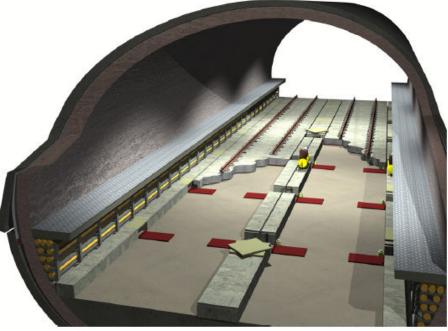


Examples of Noise Mitigation Technologies

Resilient Fastener Devices



Floating Trackbed





Noise Bylaw

- The existing Noise Bylaw did not contemplate Tunnel construction.
- The recommended bylaw changes allows the tunnel construction and the removal of the excavated material through the night and on weekends provided the surface noise is in compliance with the 65 decibels threshold outlined in the bylaw
- This will allow construction to occur along the accelerated schedule while ensuring minimum disturbance on the surface level



Business Development Strategy and Property Acquisition





Business Development Strategy and Project Agreements

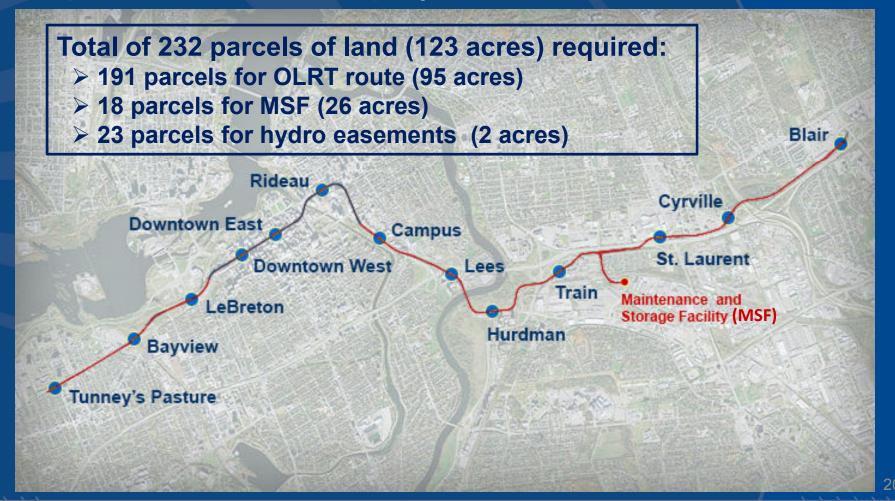
- There are currently three integrated entrance opportunities being negotiated:
 - Place-de-ville for the DTW-E entrance
 - -Sun Life Financial for the DTE-W entrance
 - Cadillac Fairview for the west entrance of the Rideau Station within the Rideau Centre
- Agreed negotiation frameworks have been arranged with these property owners.





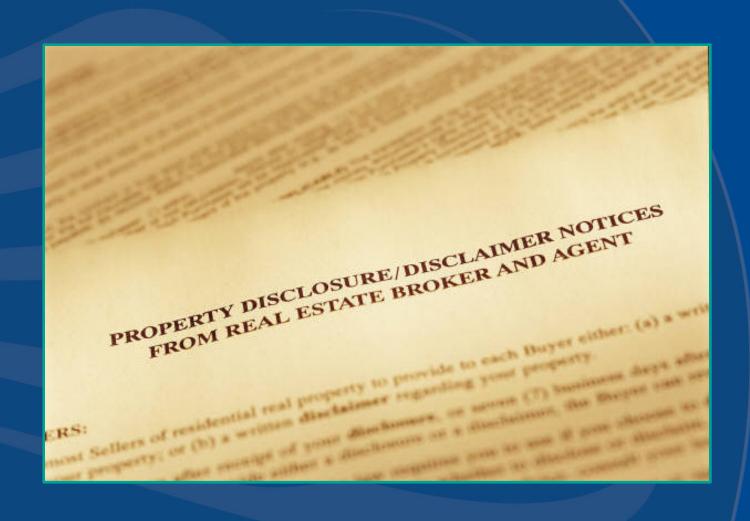
Property Acquisition

 Negotiations are underway to secure the property required for the OLRT project.





Legal Agreements





Approvals

- Key approvals, such as the federal and provincial Environmental Assessments, have already been completed or will be complete before Financial Close is reached
- Other key approvals, such as the NCC's Federal Land Use, Design and Transaction approval, are expected to occur in timelines that meet the project requirements

In general, the City is responsible for obtaining approvals before contract award, while RTG is responsible for obtaining the majority of the permits and approvals after contract award



Project Agreement

- The Project Agreement is the binding legal document between the City and RTG that covers both the construction period and the maintenance term that commences on the first day following the revenue service availability date. It outlines:
 - Governance structure and reporting obligations
 - Regulatory responsibilities and safety
 - Performance Standards and obligations for Operation of the System
 - Performance Standards and obligations for Maintenance of the System



Financial Presentation Overview

- Construction Budgets and funding
- Maintenance & Service Term Expenses
- Transit Long Range Plan





OLRT Construction Budget

Project Budget July 2011 vs. Current (Millions)		
	July Estimate	Current
	\$M	\$M
Property, Engineering, Project Management (City works)	397	275
Tunnel & Stations	777	681
Track work/ Systems/ M&S Facility	442	551
Civil Works	174	102
Vehicles	325	344
Financing & Transaction Costs	N/A	177
TOTAL	2,115	2,130





OLRT Construction Budget Funding

	Cash \$M	Direct Debt Authority \$M	P3 Debt \$M	Total
Gas Taxes	191	33	225	449
Development Charges	180	36	75	291
Transit taxes	156	34		190
Total – net budget	5 2 7	103	300	930
Federal and Provincial Grants	1,200			1,200
Total	1,727	103	300	2,130



RTG Financing Structure

Financing Term	RTG
Capital Structure	 Long Term Debt: \$225 M
	Long Term Equity: \$75 M
	Short Term Debt: \$232 M
Bank Lenders	 Bank of Nova Scotia (AA-)
	 National Bank of Canada (A)
	• BTMU (A+)
	• SMBC (A+)
Long Term Lenders (bond)	Sun Life
	 National Bank Financial
Equity Providers	• ACS
	 SNC Capital
	• EllisDon



Associated Works Construction **Budget and Funding**

	Gross Budget \$M	Provincial Revenue \$M	Dev Charges \$M	Dev Charge Debt \$M	Capital Reserve \$M
Hwy 417 Widening	226	206.0	1.6	0.8	17.6
OLRT transition	63				63
Multi-Project contingency	100				100





Maintenance and Service Term Expenses

	Current	Jul-11	Difference
	\$M	\$M	\$M
Maintenance	804	733	72
Lifecycle	208	243	-35
Insurance and Administration	87		87
Sub-total Paid to Proponent	1100	976	124
Energy	112	228	-115
Labour	138	176	-37
Sub-total Paid by City	251	403	-153
Total	1350	1379	-28



Transit LFRP Affordability

	Jul-11	Nov-12	Difference	
New Debt	\$M	\$M	\$M	
Debt Issued	5,238	5,021	(217)	
Principal Paid	(3,876)	(3,782)	94	
Interest Paid	(3,240)	(3,288)	(48)	
Existing Debt				
Principal Paid	(408)	(408)	-	
Interest Paid	(149)	(149)	-	
Outstanding Total Debt in 2048	(1,362)	(1,238)	123	
City Cash Position in 2048	1,989	2,157	168	
Meets Funding Covenants/Is affordable?	TRUE	TRUE	N/A	
Millions CAD				

30



QUESTIONS?



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