



Building Markham's Future Together
Journey to Excellence

MAIN STREET MARKHAM

FROM HIGHWAY 7 TO BULLOCK DRIVE

STREETSCAPING

FEBRUARY 5, 2013





- **2012 CONSTRUCTION**
- **PUBLIC CONSULTATION**
- **PROPOSED STREETSCAPING COMPONENTS**
 - **STREET TREES**
 - **STREET LIGHTS**
 - **PAVERS**
 - **STREET FURNITURE**
- **LIMITS OF STREETSCAPING**
- **KEY ISSUES**
- **PROJECT SCHEDULE**



2012 CONSTRUCTION

- Storm Sewer and Watermain Installation from Highway 7 to Bullock Drive
- Completed on budget (\$1.7M) and on schedule (November, 2012)

PUBLIC CONSULTATION

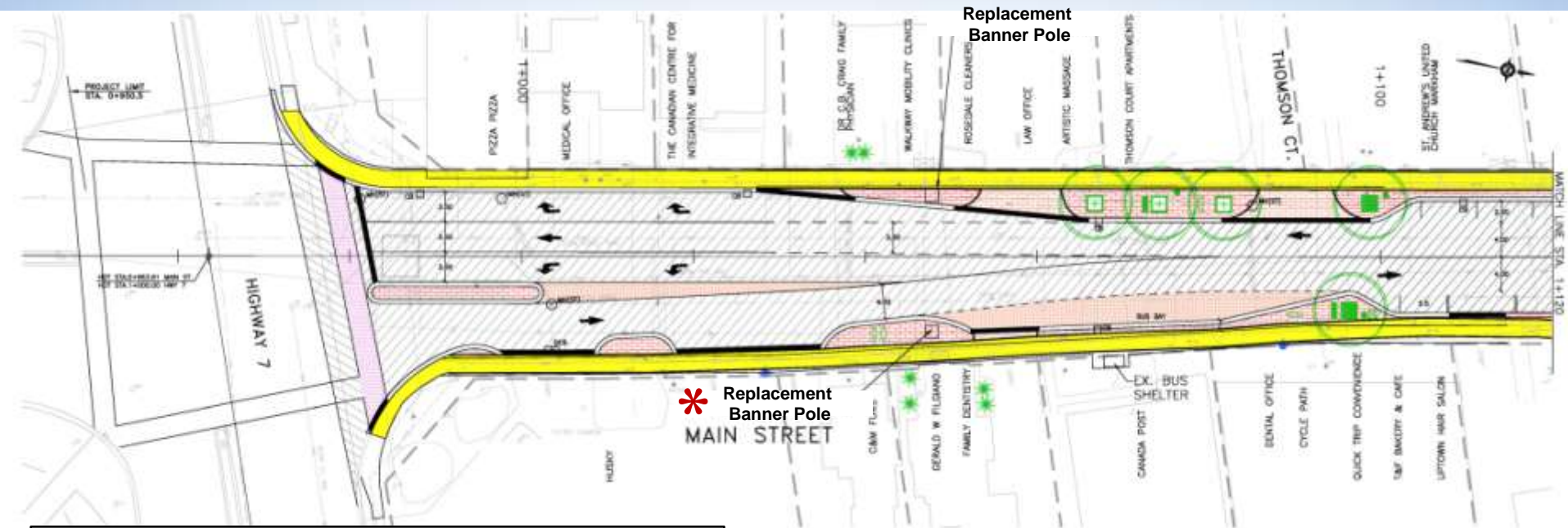
Undertaken to Date

- Eight (8) Public Liaison Committee (PLC) Meetings
- Two (2) Presentations to Council
- Two (2) Public Open Houses
- Two (2) meeting with Markham Accessibility Committee
- Meetings with Main Street Markham Committee & Heritage Markham
- One (1) Site Walk
- Meetings with Markham BIA
- Publications on City of Markham Website

PUBLIC CONSULTATION

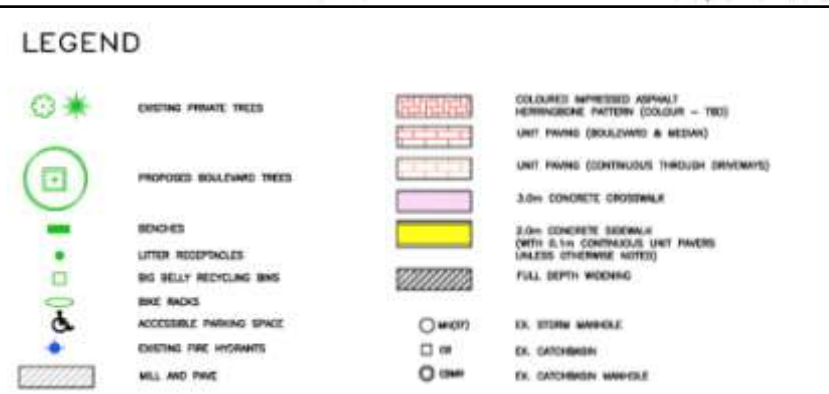
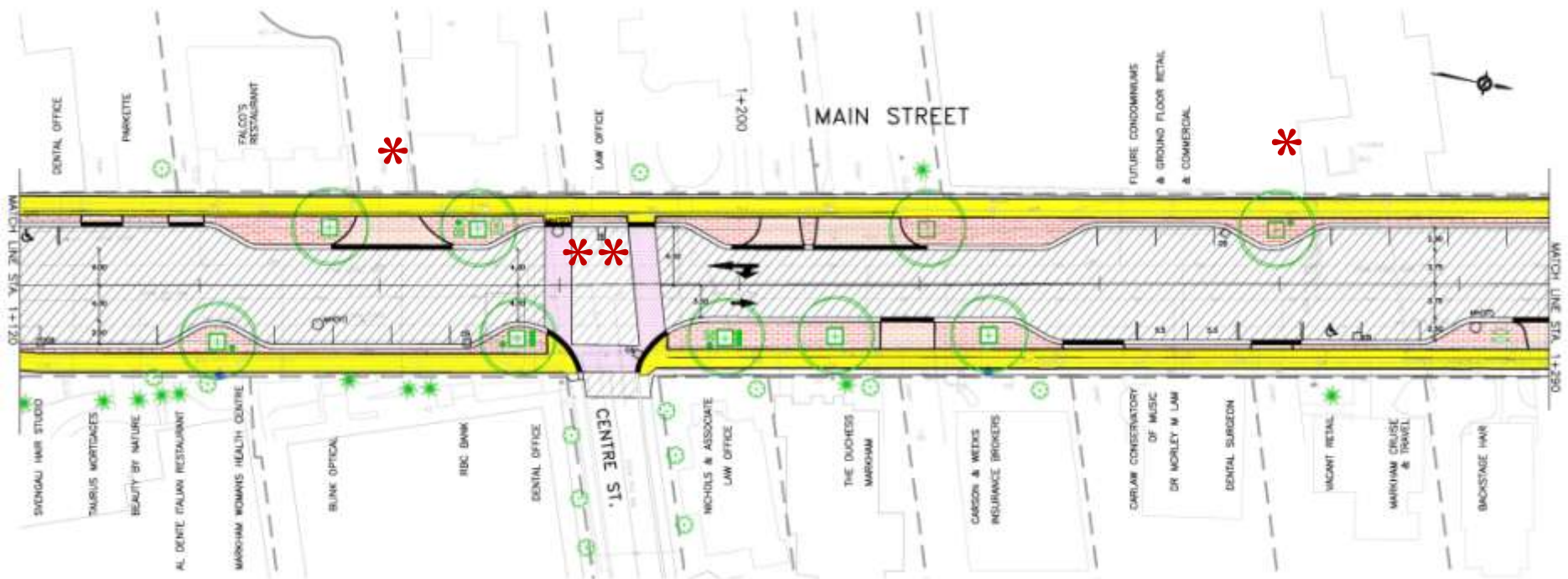
To be Undertaken

- Two (2) Public Liaison Committee (PLC) Meetings (Construction)
- One (1) Meeting with Markham BIA Executive
- Updates to City of Markham Website

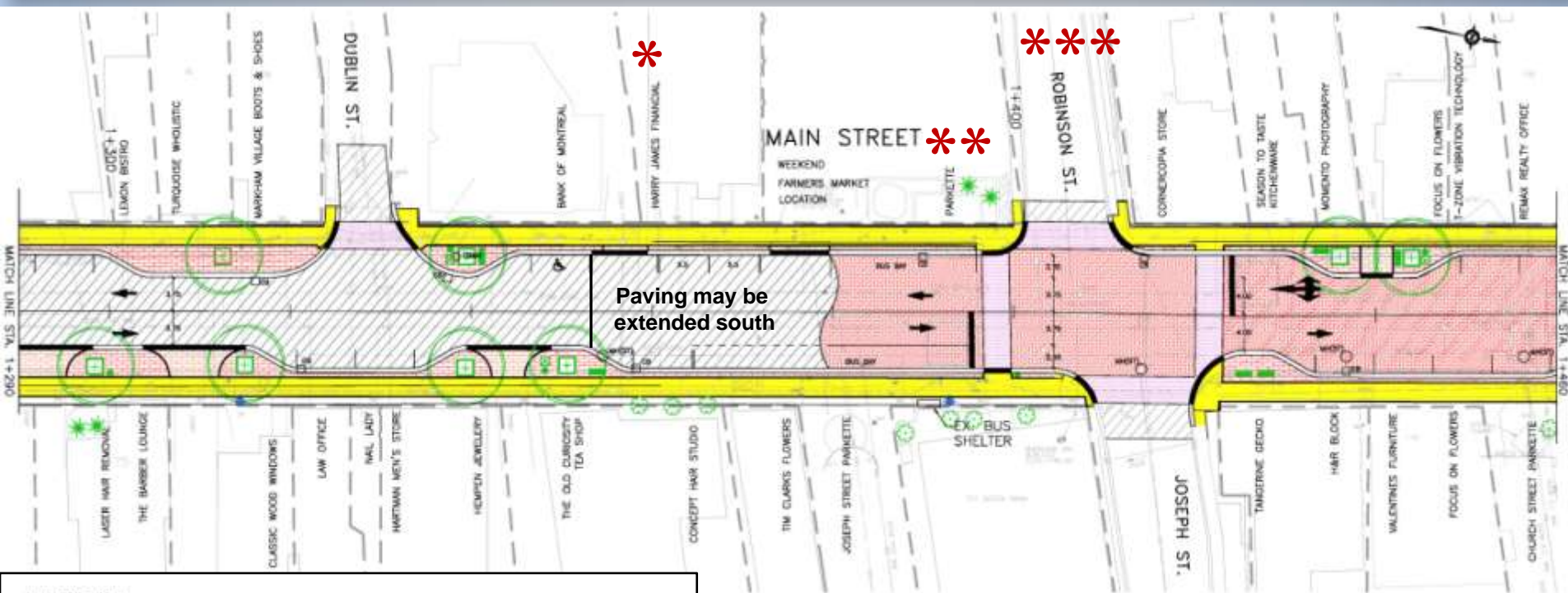


LEGEND			
	EXISTING PRIVATE TREES		COLOURED IMPRESSED ASPHALT HERRINGBONE PATTERN (COLOUR - T80)
	PROPOSED BOULEVARD TREES		UNIT PAVING (BOULEVARDS & MEDIAN)
	BENCHES		UNIT PAVING (CONTINUOUS THROUGH DRIVEWAYS)
	LITTER RECEPTACLES		3.0m CONCRETE CROSSLANE
	BIG BELLY RECYCLING BINS		2.0m CONCRETE SIDEWALK (WITH 0.5m CONTINUOUS UNIT PAVING UNLESS OTHERWISE NOTED)
	BIKE RACKS		FULL DEPTH WIDENING
	ACCESSIBLE PARKING SPACE		EX. STORM MANHOLE
	EXISTING FIRE HYDRANTS		EX. CATCHBASIN
	MILL AND PAVE		EX. CATCHBASIN MANHOLE

- * Archway request by BIA
- * Currently no budget for Archway Feature
- * No heritage precedent
- * Potential conflict between footings required and underground utilities
- * 407 to Hwy 7 phase envisions a gateway feature south of Hwy 7 complimented by landscape improvements in front of the Library.



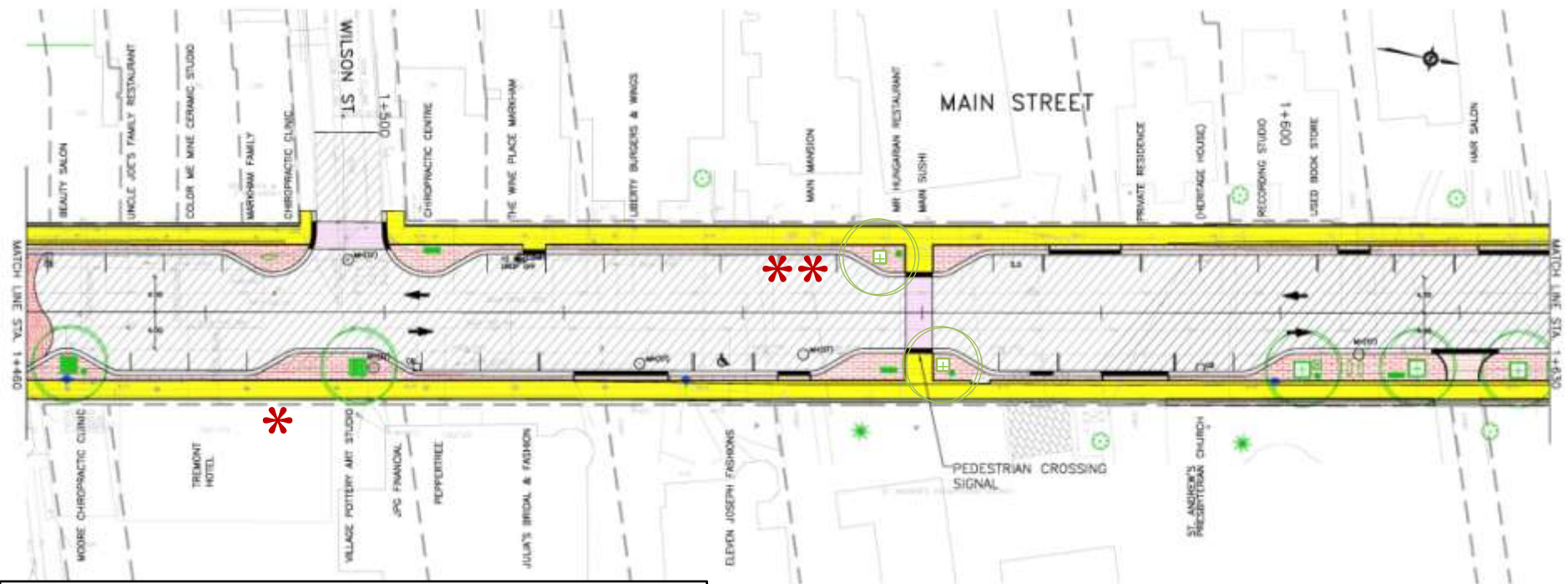
- * Proposed/New developments
- ** Slip around lane to prevent backlog of traffic being analyzed.



LEGEND

	EXISTING PRIVATE TREES		COLOURED IMPRESSED ASPHALT HERRINGBONE PATTERN (COLOUR - RED)
	PROPOSED BOULEVARD TREES		UNIT PAVING (BOULEVARD & MEDIAN)
	BENCHES		UNIT PAVING (CONTINUOUS THROUGH DRIVEWAYS)
	LITTER RECEPTACLES		3.0m CONCRETE CROSSLANE
	BIG BELLY RECYCLING BINS		2.0m CONCRETE SIDEWALK (WITH 0.1m CONTINUOUS UNIT PAVING UNLESS OTHERWISE NOTED)
	BIKE RACKS		FULL DEPTH WIDENING
	ACCESSIBLE PARKING SPACE		EX. STORM MANHOLE
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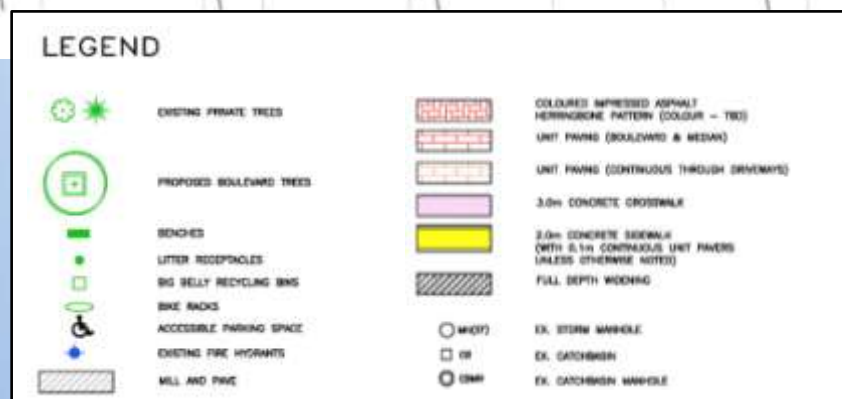
- * Extend pavers to Old Town Hall under discussion (Subject to costs)
- ** Private property (Existing sidewalk and signs)
- *** Robinson Street and all side street reconstruction is outside the scope of work



LEGEND



















	EXISTING PRIVATE TREES		COLOURED IMPRESSED ASPHALT HERRINGBONE PATTERN (COLOUR - TRD)
	PROPOSED BOULEVARD TREES		UNIT PAVING (BOULEVARD & MEDIAN)
	BENCHES		UNIT PAVING (CONTINUOUS THROUGH DRIVEWAYS)
	LITTER RECEPTACLES		3.0m CONCRETE CROSSWALK
	BIG BELLY RECYCLING BINS		2.0m CONCRETE SIDEWALK (WITH 0.1m CONTINUOUS UNIT PAVING UNLESS OTHERWISE NOTED)
	BIKE RACKS		FULL DEPTH WIDENING
	ACCESSIBLE PARKING SPACE		EX. STORM MANHOLE
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- * Potential re-development by owner
- ** Requested bumpout extension requested by tenant





LEGEND

	EXISTING PRIVATE TREES		COLOURED IMPRESSED ASPHALT HERRINGBONE PATTERN (COLOUR - TRU)
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	MILL AND PAVE		EX. CATCHBASIN MANHOLE



11



PUBLIC ON-STREET PARKING

EXISTING 85

PROPOSED 63 Includes 4 Designated Accessible Spaces



- Extensive discussion with Accessibility Committee regarding distribution of accessible spaces & path of travel to sidewalk
- Maximum 2hr parking limit may be needed to ensure parking turnover and employees do not utilize public parking
- Need to establish parking business plan for Main Street
- Discussion with property owners to utilize private parking to offset loss of on-street parking

IMPROVED ACCESSIBILITY

- 2.0m wide continuous concrete sidewalks
- 3.0m wide continuous concrete crosswalks
- Urban Braille – changes in colour and texture to assist people with visual impairment
- Eliminating awkward grade changes in the sidewalk where feasible
- Audible pedestrian signals
- Street names impressed into sidewalk
- Extended boulevard provides furniture zone



FESTIVAL SQUARE PAVING

UNILOCK® – Tri-Colour Blend Paver



- *Town Hall*® series laid in Herringbone pattern within roadway (*top left*)
- *Copthorne*® series laid in Running Bond pattern in boulevard (*bottom left*)



- Operations & Maintenance
- Bedding Material to be confirmed
- Final costs to be confirmed

STREET TREES

- All existing trees within the Municipal Right-of-Way will be removed to accommodate a wider sidewalk and streetscaping
- 37 replacement trees are proposed
- Some businesses are requesting trees not be installed in front of their premises
- Tree placement to be finalized subject to Patio Policy (Spring 2013)
- Strata Cell[©] system proposed to facilitate growth and watering



STREET TREES – STRATA CELLS[®]



Soil Structure Systems



Root Management



Tree Pit Irrigation and
Aeration



STREET TREES



Trees	Description
Red Maple	Height/Width – 22m/15m Fall color – Greenish Yellow/Red Shape – Upright Oval/Rounded
Autumn Blaze Maple	Height/Width – 17m/12m Fall color – Red/Orange Shape – Upright/Broad Oval
Bur Oak	Height/Width – 25m/25m Fall color – Yellow Shape – Broad Oval
Glenleven Linden	Height/Width – 10m/15m Fall color – Yellow Shape – Open/Pyramidal
Ivory Silk Tree	Height/Width – 8m/5m Fall color – Insignificant Shape – Compact/Oval
Chanticleer Pear	Height/Width – 17m/5m Fall color – Reddish Shape – Narrow/Pyramidal
Honey Locust	Height/Width – 16m/12m Fall color – Yellowish Shape – Very Open/High Canopy





STREET FURNITURE



Continue to use this style of bench and waste bin consistently along the street



Bike rack – simple clean design



Fire Hydrant style – installed in yellow

City's standard "heritage style" Big Belly Recycling Solar Compactor



STREET LIGHTS

- Philips Lumec – Square Lantern Series © (*Recommended*)
 - Heritage Look
 - LED Light Source
 - Staff working with lighting expert to confirm dark sky performance
 - Banner poles/hanging basket brackets / electrical outlets provided
 - Bracket & Lantern can be mounted on existing hydro poles north of Bullock in future phase.





LIMITS OF STREETSCLAPING

- Streetscaping will be completed up to the Property Line.
- Property Owners will be provided the opportunity to continue work on Private Property once Main Street Streetscaping is completed.
- City will not be responsible for any work carried out on Private Property
- Existing grade changes within the right-of-way will be addressed if feasible



ISSUES

- **Patio Policy**
 - Potential impact on sidewalk location and tree installation
- **On-Street Parking Spots vs. Patio Space/Bump-Outs**
 - Businesses requesting additional bump-out space for potential patio
- **Festival Square Paving**
 - Extent of paving - The original plans showed a decorative treatment at every intersection and was later consolidated to achieve maximum impact at Robinson Street.
 - Cost
- **Cost Estimate (\$2.3M) vs. Budget (\$2.3M)**

ISSUES

- Archway as Gateway Feature at Highway 7
 - Space for installation has been protected [Potential conflict with utilities unknown]
 - Cost - ±\$100,000
 - Archway not identified in previous studies or design guidelines.
 - No heritage precedent for an archway over the street.
- Extent of Side Street Reconstruction
 - Robinson Street, Wilson Street, Dublin Street, and Centre Street
- Planters and Signs at Festival Square
 - Currently on private property
- Marketing Plan

NEXT STEPS

- Tender Contract for Construction (March 2013)
- Award Contract (April 2013)
- Finalize Construction Staging and Traffic Management Plan (April – June 2013)
- Patio Policy (Spring 2013)
- Utility Stakeout, Mobilization, and Material Delivery (May 2013)
- Public Liaison Committee Meetings (Spring 2013)
- Construction Start (July 2013) - Tentative
- Construction Completion (November 1, 2013) - Tentative

PROJECT SCHEDULE

- Tentative Construction Tender Schedule:
 - March 5, 2013 – Tender to be Issued for Bidding
 - April 3, 2013 – Tender Period Closing
 - April 16, 2013 – Tender Awarded to Successful Contractor
- July 2, 2013 – Construction Start
- November 1, 2013 – Construction Completion
- Potential Public Liaison Committee Meetings:
 - March 21, 2013 – Draft Construction Phasing
 - Patios in public ROW Consultation (tbc)
 - May 9, 2013 – Final Construction Phasing