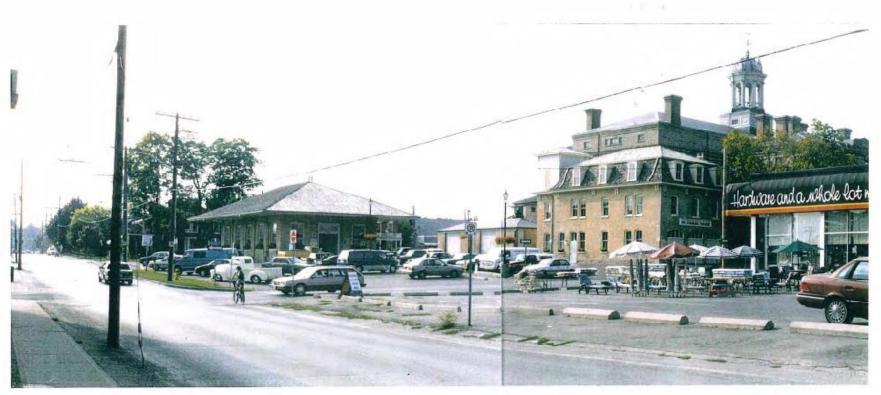
### +Agenda

- Project background
- Detailed Design process
- Design elements and Perspective Views:
  - Parking and Roadway Design
  - Development along Second Street
  - Surface Treatment
  - Low Impact Development
  - Site Furniture
  - Planting
  - Public Art
  - Lighting Design

April 17, 2017

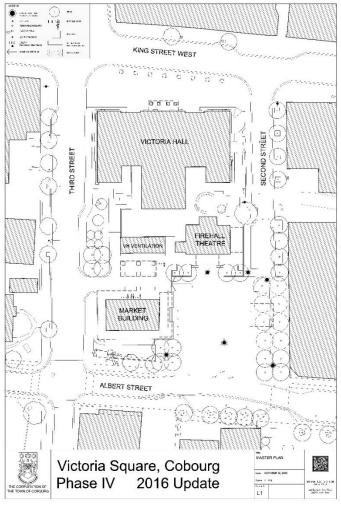
## +Project background



Late 1990's - Photo by M. Mutton

## +Project background

October 2016 Approved concept





## +Project background

Video of approved concept (Video production by Jeremy Nicholls)



### + Detailed Design Process



#### +Business Mode



#### + Market Mode



#### **+** Event Mode



#### **+** Event Mode



### **+**Looking South on Second Street



#### +Bollards and Trench Drain









#### +South on Second Street at Square entrance



#### + Coordination with future development on Second Street



### **+**Looking West on Albert Street



### **+**Looking East on Albert Street from Third Street



### + Entrance to Square from Albert Street



#### +Surface Treatment – Upper Level

- Existing red/grey name pavers to remain adjacent to Firehall Theatre and Market Building
- Matching pavers to be relocated for consistent treatment through upper level





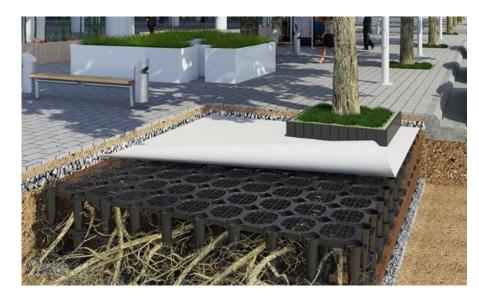
#### +Surface Treatment - Lower Level





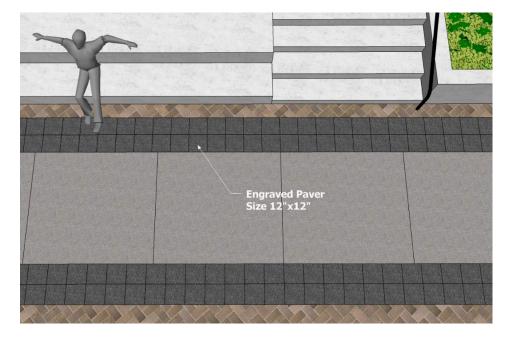
#### **+** Low Impact Development

- Soil cells along Albert Street to maximize tree growth
- Permeable pavers above soil cells to reduce surface runoff and increase water available to trees
- Central area of square in permeable pavers – creates test area for sustainable treatment



### +Fundraising opportunities

- Engraved pavers
- Bike racks
- Benches with plaques







#### +Site Furniture

- + Benches match existing
- + Waste Receptacles
  - 3 compartments

#### + Planters

- Similar to existing square planters in front of Victoria Hall to delineate traffic
- Round planters similar to those at Rotary Waterfront Park











#### +Site Furniture

#### + Bike Racks

- Post and ring, 'Town of Cobourg'
- Multi Bike Rack
- Custom design options











### Cobourg Market Square - Market Building



### Cobourg Market Square - Market Building



#### Cobourg Market Square – Looking East, North of Market Building





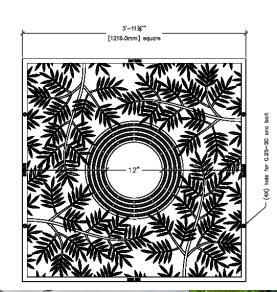






### +Tree Planting

- Keep existing trees along Second Street until construction of future development
- Future planting of trees in soil cells along Second Street
- Tree grate to match trench drain pattern
- Proposed tree species: Ginkgo, London Planetree, and Honeylocust









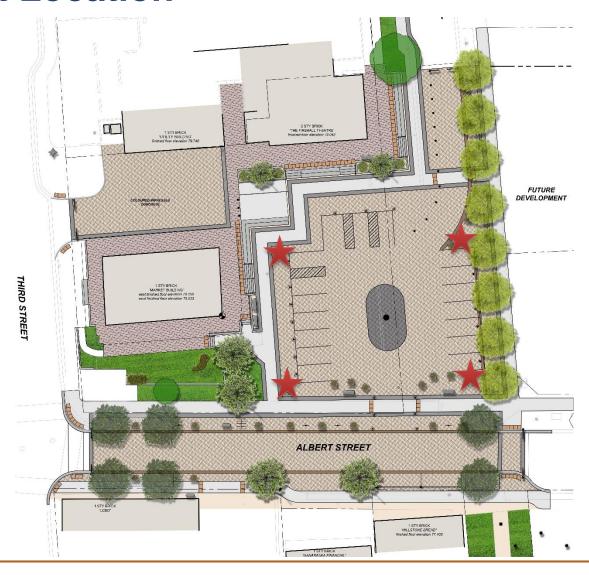
#### +Public Art

- Located at corners of square
- Footing and lighting requirements to be coordinated





#### +Public Art Location



## Cobourg Market Square – Event Mode – Firehall East Stage



### Cobourg Market Square – Event Mode – Firehall East Stage



### + Lighting

- Traditional post top Coach Lantern on existing 16' pole to match existing street lighting, upgraded to LED fixtures
- Albert Street and Second Street





### +Lighting

- Central pole feature with cross arms to support fixtures
- Accent / stage lighting poles near corners of square
- Light directed to front of stage areas
- GOBO Floodlight Fixture to produce static image or provide a moving/animated image
- Fixed floodlight with dynamic colour changing & white LED

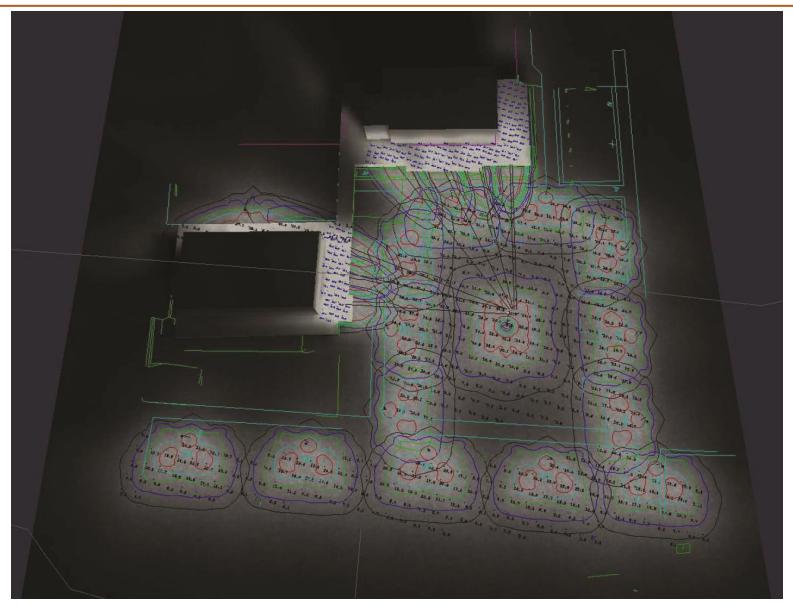


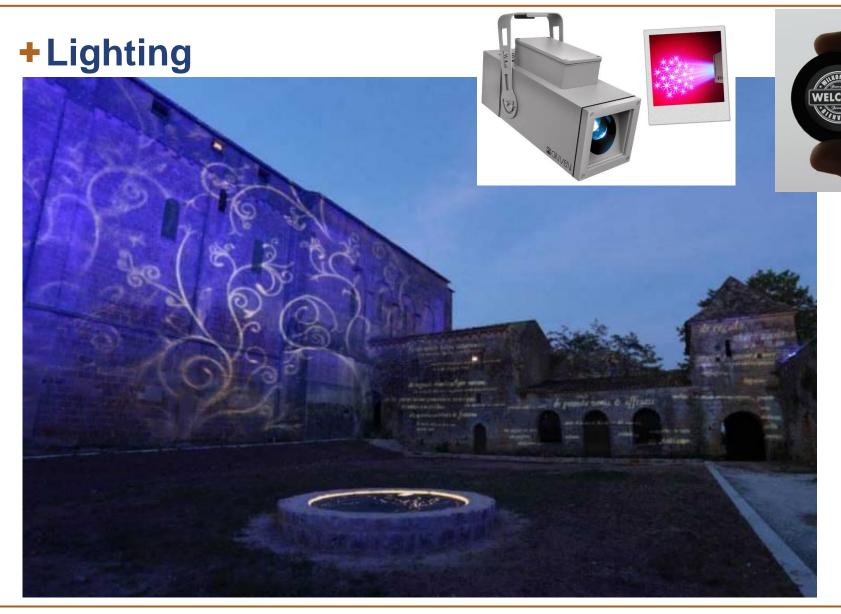






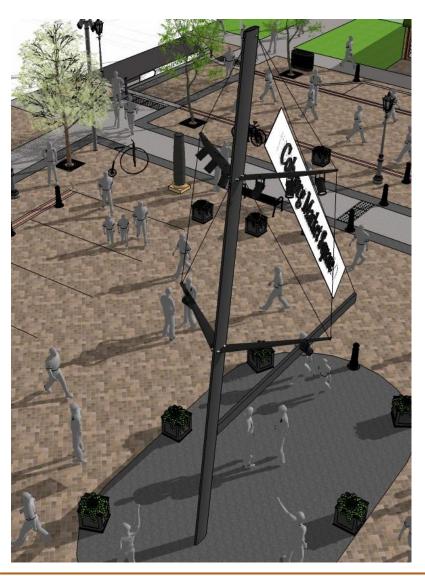
### Cobourg Market Square – Lighting Intensity







### Cobourg Market Square - Lighting - Central Pole









#### +Business Mode



#### + Market Mode



#### **+** Event Mode



#### **+** Event Mode



### Cobourg Market Square - Budget

#### **Preliminary Cost Summary**

Item	Unit	Quantity	Unit	Cost	Tota	al .
Mobilization	LS	1	\$	1,000	\$	1,000
Bonds, Insurance and Maintenance	LS	i	\$	7,500	\$	7,500
Maintenance of Pedestrian and Vehicular Traffic	LS	1	\$	2,500	\$	2,500
Earth Excavation	LS	i	\$	50,000	\$	50,000
Editi Exceptation	20	•	Ψ.	00,000	•	00,000
Hard Surface						
Concrete Sidewalk	m2	630	\$	120	\$	75,600
Unit Pavers on Gravel base incl. Drivegrid (back of curb to building façade) installed	m2	2050	\$	120	\$	246,000
Permeable Unit Pavers on Gravel base, installed	m2	100	\$	140	\$	14,000
Engraved pavers to be salvaged and relocated	m2	145	\$	100	\$	14,500
Tactile Plates (Intersections + top of walls)	each	110	\$	500	\$	55,000
Trench Drains	linear m	200	\$	450	\$	90,000
Retaining Walls	face m	225	\$	400	\$	90,000
Concrete Ramps	m2	60	\$	120	\$	7,200
Impressed coloured concrete (North of Market Building)	m2	250	\$	160	\$	40,000
T						
Trees						
Soil Cells along Albert Street West Side Tree Pit	each	4	\$	6,000	\$	24,000
East side Tree Pit	each	2	\$	7,500	\$	15,000
Soil Cells East of Second Street (NIC)	each	7	\$	5,800	\$	40,600
Tree grates	each	13	\$	1,700	\$	22,100
Trees in Planters & Sod		4	\$	500	\$	2,000
Hees III Flamers & 300	each	4	Ф	500	Þ	2,000
Street Furnitures						
Benches with Centre Arm (Trystan FLSS)	each	10	\$	1,500	\$	15,000
Trash Receptacles (Maglin MRC253-ST)	each	3	\$	2,500	\$	7,500
Bollards						
Type 1 - Victoria Bollard	each	10	\$	900	\$	9,000
Type 2 - Victoria Bollard P-Gate Option (Traffic Control)	each	8	\$	1,500	\$	12,000
Type 3 - Flexible Polyurethane Bollard (Ontario Bollards FRB100)	each	14	\$	650	\$	9,100
Type 4 - Fixed Steel Bollard Flexible Polyurethane Bollard (Ontario Bollards FRB100)	each	22	\$	750	\$	16,500
Railings	linear m	30	\$	500	\$	15,000
Bike Racks				0.0000000		NA - 10000000
Type 1 - Post & Ring (Maglin MBR200-DB-L)	each	4	\$	500	\$	2,000
Type 2 - Multi Bike Rack (Maglin 5 bikes MBR-5-DB)	each	1	\$	750	\$	750
Type 3 - Custom Bike Rack (Maglin)	each	3	\$	1,000	\$	3,000
E-bike Charging Stations	LS	1	\$	5,000	\$	5,000
Planters	each	16	\$	500	\$	8,000
Lighting						
Fixtures + Control units + Central Pole Structure	LS	1	\$	150,000	\$	150,000
Upgrade Power Supply	LS	1	\$	25,000	\$	25,000
Electrical outlets	LS	1	\$	25,000	\$	25,000
Mr. II						
Miscellaneous	LS	4	\$	25 000	•	25 000
Infrastructure Changes such as adjust MH's + CB's		1		25,000	\$	25,000
Replacement of sanitary sewer service	linear m	60	\$	300	\$	18,000
Subtotal					\$	1,142,850
10% Contingency					\$	114,285
Total					\$	1,257,135
Public Art Installation (Stephen Cruise 4 Columns)					\$	140,000
Design, Tender, Construction Administration, Site Inspections					\$	100,000
Anticipated Total Construction Budget of 1.375 Million (Including Public Art Installation)						
Total					\$	1,497,135
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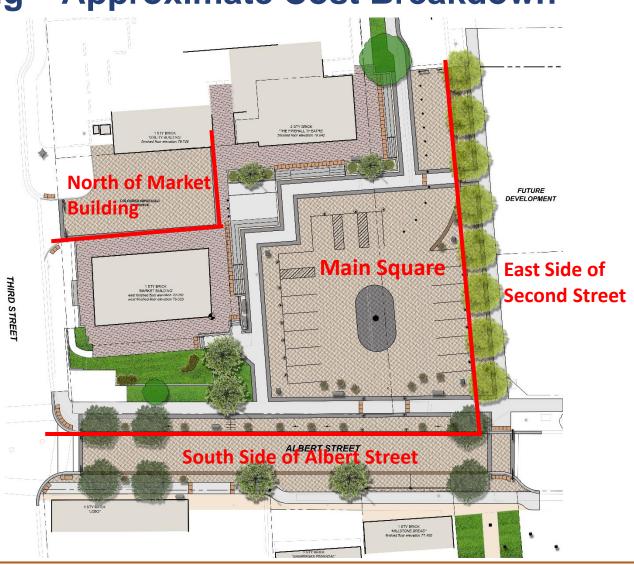
+ Potential Phasing – Approximate Cost Breakdown

North of Market Building \$ 65,000

East Side of Second Street \$ 175,000

South Side of Albert Street \$ 250,000

Main Square \$ 1,200,000



# Questions?