

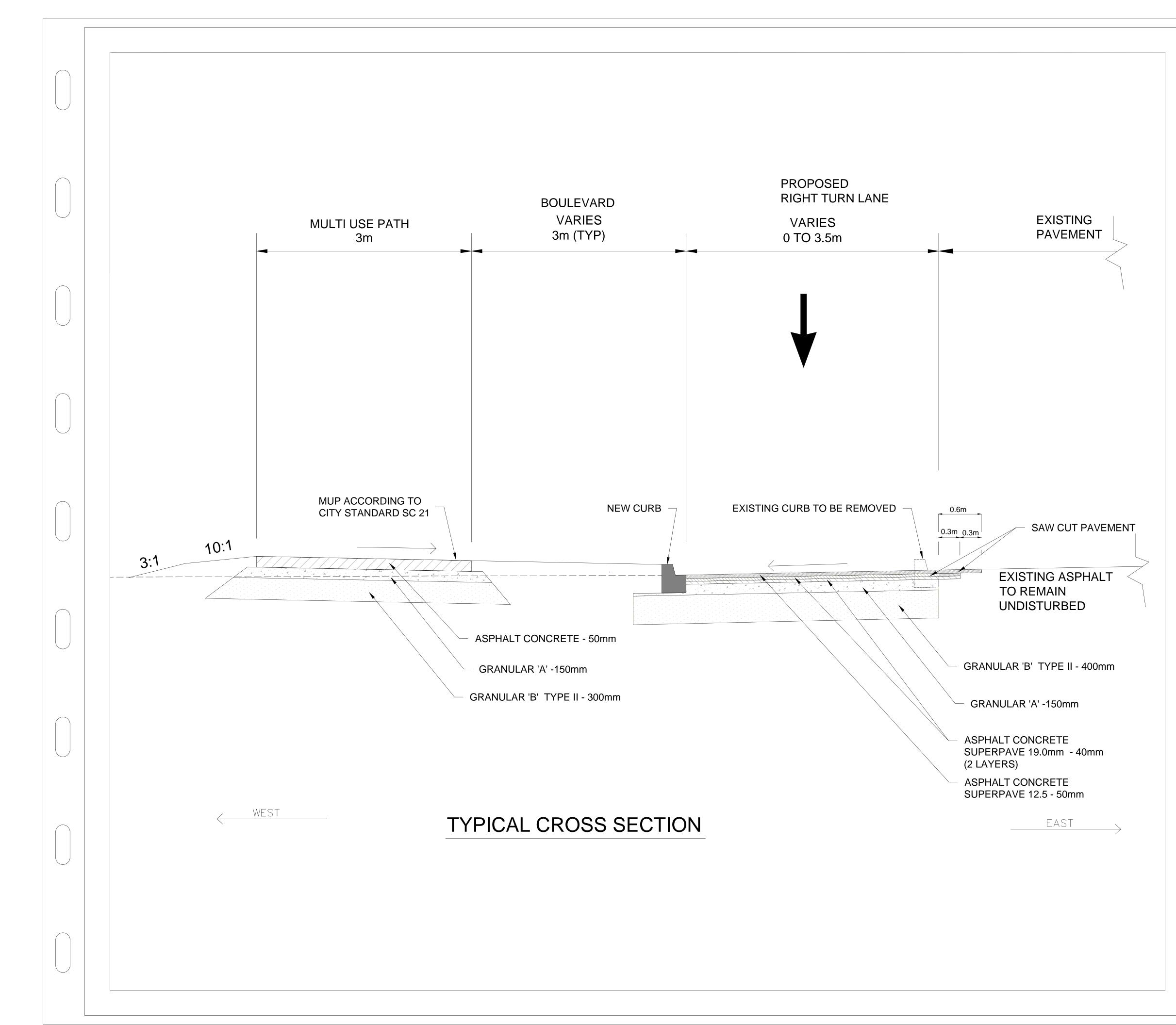
	FUNCT	Y OF OTTAWA ONAL PLANNING TENTH LINE ROAD				
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	No.	Description			By (Date dd/mm/y
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REVISIONS						

NOTES

- 1. THE MODIFICATION OF STORMWATER DRAINAGE TO SUIT THE WIDENED ROAD SHALL BE DONE AT DETAILED DESIGN STAGE.
- 2. THE LOCATIONS OF UNDERGROUND UTILITIES AND ANY PROTECTION/RELOCATION REQUIREMENTS SHALL BE DETERMINED AT DETAILED DESIGN STAGE.

LEGEND

- \bigcirc -existing catch basins to be moved during detailed design
- \bigcirc -existing electric power poles to be left in place



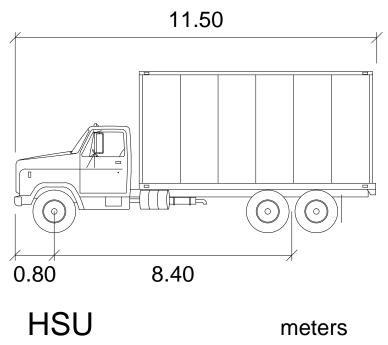
		CITY OF OTTAWA FUNCTIONAL PLANNING 2168 10TH LINE ROAD			
		ACCESS CONCEPT DESIGN TYPICAL CROSS SECTION	Contract N	lo. 7246 Sheet	Dwg. No 02
			Asset Grou		
	Castleglenn Consultants	Des.	М	Chk'd. JB Chk'd.	
		Engineers, Project Managers & Planners	R	Μ	AS
		PROJECT REF. NUMBER: 7246	Cost. Inspe Scale:	ector (() <u> 10</u> m 5
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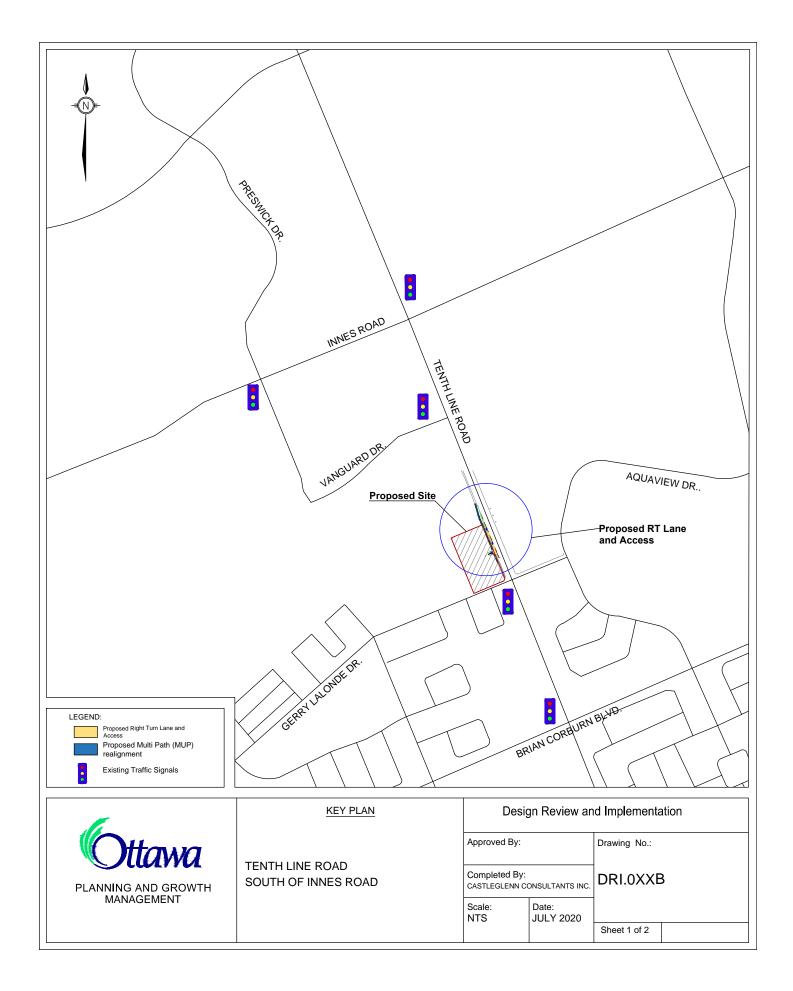
FINAL PAVEMENT DESIGN TO BE CONFIRMED AT DETAILED DESIGN STAGE

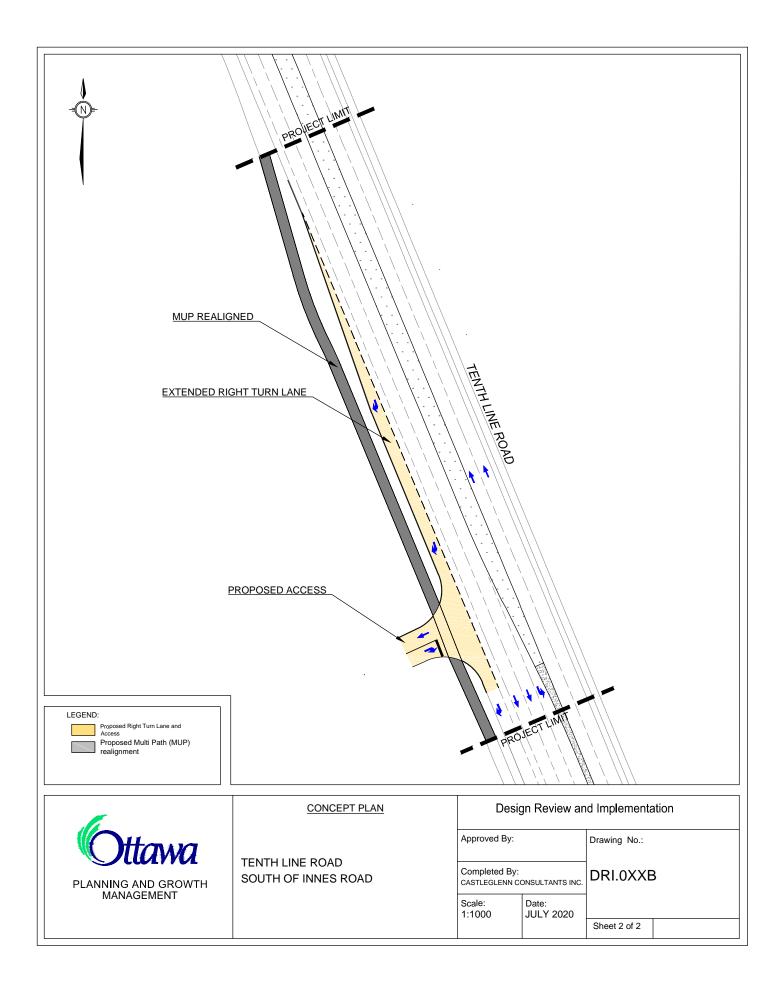


			CITY OF OTTAWA			
		FUN	CTIONAL PLANNING 2168 10TH LINE ROAD			
	ACCESS CONCEPT DESIGN VEHICLE TURNING MANOUVERS		Contract N	Contract No. 7246 Sheet 3 of 3		
				Asset Grou	ıp	
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			Castleglenn	Des.	M	Chk'd. JB
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Width	:	2.60
Track	:	2.60
Lock to Lock Time	:	6.0
Steering Angle	:	39.7







Access and Right Turn Lane Extension Tenth Line Road - Conceptual Cost Estimate

ITEM	ITEM	ESTIMATED	UNIT	UNIT	TOTAL
NO.	I I EIVI		UNII		
A NO.	REMOVALS	QUANTITY		PRICE	PRICE
	Sawcut Asphalt	150	m	\$17	\$2 475
	*				\$2,475
1	Remove Existing Asphalt	95	m ²	\$11	\$1,045
	Remove & Dispose of Concrete Curb	150	m	\$28	\$4,125
A.5	Remove Asphalt on a Multi Use Path	536	m ²	\$11	\$5,896
A.6	Remove & Relocate Warning Signs	2	each	\$275	\$550
	SUBTOTAL A				\$14,091
В	UTILITIES AND STORM SEWER				
1	Adjust Manhole Elevation	1	LS	\$1,100	\$1,100
B.2	Relocate and replace curbside Storm Drain with covers	5	each	\$3,300	\$16,500
	SUBTOTAL B				\$17,600
С	ROADWAY AND ACCESS				
C.1	Earthworks and Granular Layers				
C.1.1	Excavate for Subgrade	786	m ³	\$11	\$8,644
C.1.2	Granular "B" Type II, 400mm Thickness	838	Tonne	\$30	\$25,128
C.1.3	Granular "A" Type I, 150mm Thickness	257	Tonne	\$40	\$10,272
C.1.4	Preparing Subgrade Surface	616	m ²	\$2	\$1,232
	SUBTOTAL C.1				\$45,276
C.2	Asphalt Concrete Pavement				
C.2.1	Asphalt-40mm (Two Lifts)	156	Tonne	\$144.0	\$22,464
C.2.2	Asphalt-50mm (One Lift)	91	Tonne	\$154.0	\$14,014
	SUBTOTAL C.2				\$36,478
C.3	Curb Extension, Signs & Pavement Markings				
C.3.1	Curb and Gutter	175	m	\$55.0	\$9,625
C.3.4	Pavement Marking / Signs	1	LS	\$3,300	\$3,300
	SUBTOTAL C.3				\$12,925
	SUBTOTAL - ROADWAY AND ACCESS				\$94,679
	TOTAL ROADWAY AND ACCESS CONSRTUCTION				\$126,370
D	<u>MULTI USE PATH</u>				
	Earthworks				
	Excavate for Subgrade	110	m ³	\$11	\$1,210
D.1.2		55	m ³	\$35	\$1,925
D.1.3	Granular "B" Type II, 300mm Thickness	416	Tonne	\$30	\$12,474
	Granular "A" Type I, 150mm Thickness	196	Tonne	\$40.0	\$7,841
D.1.5	Preparing Subgrade Surface	578	m ²	\$2	\$1,155
	Geotextile filter fabric Supply and Install	660	m ²	\$5	\$3,300
D.1.7	Top Soil Placement and seeding on the Bolevard	542	m ²	\$10	\$5,420
	SUBTOTAL D.1				\$33,325
	Asphalt Concrete Pavement				
D.2.1	Asphalt-40mm (Two Lifts)	0	Tonne	\$144.0	\$0
D.2.2	Asphalt-50mm (One Lift)	64	Tonne	\$154.0	\$9,910
	SUBTOTAL D.2				\$9,910
	SUBTOTAL - MULTI USE PATH				\$43,235
	SUBTOTAL (ROADWAY, ACCESS AND MULTIUSE PATH)				\$169,604
	CONTINGENCY (5%)				\$8,480
	TOTAL PROJECT CONCEPTUAL COST				\$178,084

Please Note:

1) Additional costs could be incurred subsequent to utility plan cirulations and final plan approval

2) An existing utility survey is necessary to determine the location of all underground utilities

3) Relocation (if required) of underground utilities is not included in the above cost

4) All quantities are approximate and need to be verified at Detailed Design

5) The cost estimates does not account for additional street lights (if required)

6) The cost estimates does not include engineering, survey, traffic control fees, mobilization/demobilization