

QUANTITY SHEETS  
CONTRACT NO. 2021-6010  
BOOK 1 OF 1

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	QUANTITY SHEETS - BOOK 1 OF 1
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## QUANTITIES - GRADING

W.P. No. 6038-19-00  
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MINISTRY OF TRANSPORTATION - ONTARIO

Description	Earth Excavation (Grading)	Reference	Reference													
Sub - Totals Brought Forward:																
HIGHWAY 599																
Unsurveyed Territory																
Crystal River Bridge (Site No. 41S-0098)																
Year 1																
28+270 - 28+310 Stage 2 Preloading Material	270															
28+275 - 28+315 Fill Stripping	115															
Year 2																
28+100 - 28+240 Fill Stripping	119															
28+280 - 28+410 Fill Stripping	15															
Sub - Totals Carried Forward:	519															

	(P)															
TOTALS	519															
UNIT	m3 (P)															
ITEM No.	3															

Remarks: Volume adjustment factor for earth have been applied to quantities shown.

Total Stripping	
Stripping Available	
Top Soil Required	
Stripping Balance	

Reference

CHKD. \_\_\_\_\_  
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DATE \_\_\_\_\_

Earth Excavation

QUANTITIES - MISCELLANEOUS

Description	Granular Sealing (m2) [Hand Sprayed] [Sealant Type I]		Tack Coat [Surface]	Tack Coat [Binder]									
Sub - Totals Brought Forward:													
HIGHWAY 599													
Unsurveyed Territory													
Crystal River Bridge (Site No. 41S-0098)													
28+192 - 28+224 Rt	67												
28+203 - 28+222 Lt	40												
28+224 - 28+237			133										
28+237 - 28+279			461	461									
28+279 - 28+292			133										
28+292 - 28+343 Rt	107												
28+292 - 28+336 Lt	92												
Sub - Totals Carried Forward:													
	306		727	461									
			727	461									
	(P)		(P)	(P)									
TOTALS	306			1,188									
UNIT	m2 (P)		m2 (P)	m2 (P)									
ITEM No.	4			5									

MINISTRY OF TRANSPORTATION - ONTARIO

Granular Sealing and Tack Coat

CHKD. \_\_\_\_\_  
 APPR. \_\_\_\_\_  
 DATE \_\_\_\_\_

# QUANTITIES - MISCELLANEOUS 1

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Location and Position	Asphalt Spillways												References
Sub - Totals Brought Forward:													
HIGHWAY 599													
Unsurveyed Territory													
Crystal River Bridge (Site No. 41S-0098)													
28+222 Lt	2												
Sub - Totals Carried Forward:	2												
TOTALS	(P) 2												
UNIT	m (P)												
ITEM No.	6												
Reference													
												CHKD. _____	
												APPR. _____	
												DATE _____	

MINISTRY OF TRANSPORTATION - ONTARIO

Asphalt Spillways

**QUANTITIES - HOT MIX AND GRANULAR**

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Description	Superpave 12.5 - 40 mm Lift Thickness Surface	Superpave 12.5 - 40 mm Lift Thickness Binder	Superpave 12.5 - 50 mm Lift Thickness Surface	Granular A [Roadway]	Granular A [Shoulder]	Granular A [Structure Backfill]	Granular B, Type 1 [Pre-Loading]	Granular B, Type I, From Stockpile (End Area Method)	Granular B, Type II [Roadway]	Granular B, Type II [Structure Backfill]	References
Sub - Totals Brought Forward:											
HIGHWAY 599											
Unsurveyed Territory											
Crystal River Bridge (Site No. 41S-0098)						100				380	
Year 1											
28+270 - 28+315 Widening Lt/Rt									1,460		
28+270 - 28+310 Lt (Pre-loading)							341				
28+270 - 28+310 Rt (Pre-loading)							100	171			
28+275 - 28+310 (Grading Allowance)				125							
Year 2											
28+100 - 28+240				503	55				1,557		
28+110 - 28+237			1,128								
28+222 Lt (Asphalt Spillway)			2								
28+224 - 28+237		133									
28+237 - 28+279	461	461									
28+279 - 28+292		133									
28+279 - 28+400			1,104								
28+280 - 28+410				398	58				663		
Sub - Totals Carried Forward:	461	727	2,234	1,026	113	100	441	171	3,680	380	
	461	727		1,026	113	100			3,680	380	
<b>TOTALS</b>	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	
UNIT	m2 (P)	m2 (P)	m2 (P)	t	t	t	t	m3	t	t	
ITEM No.		7	8		9		10	11		12	
Reference											
Remarks:											
											CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

**QUANTITIES - HOT MIX AND GRANULAR**

W.P. No. 6038-19-00  
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Description	Temporary Hot Mix Pavement																References
Sub - Totals Brought Forward:																	
HIGHWAY 599																	
Unsurveyed Territory																	
Crystal River Bridge (Site No. 41S-0098)																	
Year 1 Stage 1																	
28+069 - 28+108 Rt	9																
28+134 - 28+173 Rt	10																
28+138 - 28+232 Lt	16																
28+283 - 28+338 Rt	8																
28+310 - 28+446 Lt	36																
Year 1 Stage 3																	
28+275 - 28+310	35																
Year 2 Stage 2																	
28+162 - 28+237 Rt	43																
28+279 - 28+377 Rt	45																
Sub - Totals Carried Forward:																	
	202																
TOTALS																	
UNIT	t																
ITEM No.	13																
Reference																	
Remarks:																	

MINISTRY OF TRANSPORTATION - ONTARIO

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Temporary Hot Mix



**QUANTITIES - MISCELLANEOUS 1**

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Location and Position	Removal of Asphalt Pavement [Full Depth], [Surface]	Removal of Asphalt Pavement from Concrete Surfaces on Structures	Removal of Concrete Curb and Gutter [Roadway]		Removal of Steel Beam Guide Rail [Single Rail] [With Channel]	Removal of Steel Beam Guide Rail [Single Rail] [Without Channel]	Removal of Bridge Structure			References
Sub - Totals Brought Forward:										
HIGHWAY 599										
Unsurveyed Territory										
Crystal River Bridge (Site No. 41S-0098)							100 %			
Year 1 Stage 1										
28+270 - 28+310 Lt					40					
28+275 - 28+310 Lt	108									
Year 1 Stage 2										
28+270 - 28+316 Rt					46					
Year 1 Stage 3										
28+275 - 28+338 Rt	215									
Year 2 Stage 1										
28+162 - 28+241 Rt	335									
28+194 - 28+247 Rt					53					
28+241 - 28+275 Rt		150								
28+233 - 28+241 Rt				8						
28+269 - 28+289 Rt					20					
28+275 - 28+283 Rt				8						
28+275 - 28+352 Rt	285									
28+289 - 28+292 Rt						3				
Year 2 Stage 2										
Sub - Totals Carried Forward:										
	943		150		16		159	3	100 %	
	(P)		(P)		(P)	(P)	(P)	(P)		
TOTALS										
UNIT	m2 (P)		m2 (P)		m (P)		m (P)	m (P)	lump sum	
ITEM No.	14		15		16		17	18		
Reference										
										CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Removals



QUANTITIES - MISCELLANEOUS 1

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Location and Position	<i>Rip-Rap (R-50)</i>	<i>Rip-Rap (R-10)</i>		<i>Geotextile (Class II) (Non-woven) (FOS 75-150 micron)</i>		<i>Protection System</i>							References
Sub - Totals Brought Forward:													
HIGHWAY 599													
Unsurveyed Territory													
Crystal River Bridge (Site No. 41S-0098)	360			425		100 %							
28+222 Lt, o/s 8.1m - 12.7m		10		15									
Sub - Totals Carried Forward:													
	360	10		440		100 %							
	360	10		440		100 %							
	(P)	(P)		(P)									
TOTALS		370		440		100 %							
UNIT	m2 (P)	m2 (P)		m2 (P)		lump sum							
ITEM No.		19		20		21							
Reference													

MINISTRY OF TRANSPORTATION - ONTARIO

Rip Rap, Geotextile and Protection System

CHKD. \_\_\_\_\_  
 APPR. \_\_\_\_\_  
 DATE \_\_\_\_\_

QUANTITIES - MISCELLANEOUS 1

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Location and Position	<i>Performance Bond</i>		<i>Labour and Material Payment Bond</i>										References
Sub - Totals Brought Forward:													
HIGHWAY 599													
Unsurveyed Territory													
Crystal River Bridge (Site No. 41S-0098)	100 %		100 %										
Sub - Totals Carried Forward:	100 %		100 %										
<b>TOTALS</b>	100 %		100 %										
UNIT	lump sum		lump sum										
ITEM No.	22		23										
Reference													
													CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Bonding

QUANTITIES - MISCELLANEOUS 1

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Location and Position	Retained Soil System with Finishing Cap, Wall/Slope, High Performance												References
Sub - Totals Brought Forward:													
HIGHWAY 599													
Unsurveyed Territory													
Crystal River Bridge (Site No. 41S-0098)	100 %												
Sub - Totals Carried Forward:	100 %												
TOTALS	100 %												
UNIT	lump sum												
ITEM No.	24												
Reference													

MINISTRY OF TRANSPORTATION - ONTARIO

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 APPR. \_\_\_\_\_  
 DATE \_\_\_\_\_

Retained Soil System

**QUANTITIES - MISCELLANEOUS 1**

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MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Small Signs, Ground Mounted, New		Small Signs, Removal		Temporary Traffic Control Signs								References
Sub - Totals Brought Forward:													
HIGHWAY 599													
Unsurveyed Territory													
Crystal River Bridge (Site No. 41S-0098)					100 %								
28+235 Rt; o/s 1.0m	1												
28+243 Rt; o/s 1.0m			1										
28+246 Lt; o/s 0.2m			1										
28+246 Rt; o/s 0.2m			1										
28+270 Lt; o/s 0.2m			1										
28+270 Rt; o/s 0.2m			1										
28+273 Lt; o/s 1.0m			1										
28+281 Lt; o/s 1.0m	1												

	(P)	(P)											
TOTALS	2	6			100 %								
UNIT	each (P)	each (P)			lump sum								
ITEM No.	25	26			27								
Reference													

CHKD. \_\_\_\_\_  
APPR. \_\_\_\_\_  
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Traffic Control and Signs

QUANTITIES - MISCELLANEOUS 1

Table with columns: Location and Position, Portable Temporary Traffic Signals 1, Flasher Beacons (Temporary) 2, and References. Includes sub-totals for 'Brought Forward' and 'Carried Forward', and a 'TOTALS' section with unit and item numbers.

MINISTRY OF TRANSPORTATION - ONTARIO

Portable Temporary Traffic Signals

- 1. Supplied by Contractor
2. Associated with TC-23 Sign.
3. Offset from highway centreline to primary signal head. Lateral spacing between signal heads 3m to 5m.

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## QUANTITIES - MISCELLANEOUS 1

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Location and Position	Pavement Marking [Solid] [Yellow, 10cm]	Pavement Marking [Solid] [White, 10cm]		Pavement Marking, Temporary-Removable [Solid] [White, 60cm]										References
Sub - Totals Brought Forward:														
HIGHWAY 599														
Unsurveyed Territory														
Crystal River Bridge (Site No. 41S-0098)														
Year 1														
28+124 Rt				23										
28+418 Lt				23										
Year 2														
27+758 - 28+757	999													
28+058 Rt				23										
28+180 - 28+355 Rt		175												
28+190 - 28+348 Lt		158												
28+457 Lt				23										
Sub - Totals Carried Forward:	999	333		92										
	999	333												
	(P)	(P)		(P)										
TOTALS		1,332		92										
UNIT	m (P)	m (P)		m (P)										
ITEM No.		29		30										
Reference														

MINISTRY OF TRANSPORTATION - ONTARIO

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Pavement Markings



**QUANTITIES - MISCELLANEOUS 1**

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SHEET  
15

Location and Position	Single Rail SBGR, Relocation [TL-3]	Single Rail SBGR with Channel [OPSD 912.315]		Single Rail SBGR, TL-3 [OPSD 912.124]	Single Rail SBGR, TL-3 [TL-3]		Single Rail SBGR, TL-3, Adjacent to Curb and Gutter [MTOD 912.450]					References
Sub - Totals Brought Forward:												
HIGHWAY 599												
Unsurveyed Territory												
Crystal River Bridge (Site No. 41S-0098)												
Year 1 Stage 2												
28+270 - 28+289 Lt, o/s 4.7m - 4.6m (Temporary)		19										
28+289 - 28+292 Lt, o/s 4.6m (Temporary)				3								
28+292 - 28+300 Lt, o/s 4.6m - 4.8m (Temporary)					8							
Year 1 Stage 3												
28+270 - 28+289 Rt, o/s 4.2m - 4.3m (Temporary)		19										
28+289 - 28+292 Rt, o/s 4.3m (Temporary)				3								
28+292 - 28+303 Rt, o/s 4.3m - 4.6m (Temporary)					11							
Year 2 Stage 2												
28+207 - 28+218 Rt, o/s 5.3m - 5.5m	11											
28+218 - 28+222 Rt, o/s 5.5m - 5.6m					4							
28+222 - 28+237 Rt, o/s 5.6m							15					
28+279 - 28+294 Rt, o/s 5.6m							15					
28+294 - 28+330 Rt, o/s 5.6m - 5.3m					36							
Year 2 Stage 3												
28+218 - 28+222 Lt, o/s 5.3m					4							
28+222 - 28+237 Lt, o/s 5.3m - 5.4m							15					
Sub - Totals Carried Forward:												
	11	38		6	63		45					
	(P)	(P)		(P)	(P)		(P)					
TOTALS												
UNIT	m (P)	m (P)		m (P)	m (P)		m (P)					
ITEM No.	31	32		33	34							
Reference												

MINISTRY OF TRANSPORTATION - ONTARIO

Steel Beam Guide Rail

CHKD. \_\_\_\_\_  
APPR. \_\_\_\_\_  
DATE \_\_\_\_\_

**QUANTITIES - MISCELLANEOUS 1**

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Location and Position	Single Rail SBGR, Relocation [TL-3]	Single Rail SBGR with Channel [OPSD 912.315]	Single Rail SBGR, TL-3 [OPSD 912.124]	Single Rail SBGR, TL-3 [TL-3]	Single Rail SBGR, TL-3, Adjacent to Curb and Gutter [MTOD 912.450]							References
Sub - Totals Brought Forward:	11	38	6	63	45							
28+279 - 28+294 Lt, o/s 5.4m					15							
28+294 - 28+302 Lt, o/s 5.4m - 5.3m	8											
28+302 - 28+321 Lt, o/s 5.3m				19								
Sub - Totals Carried Forward:	19	38	6 6	82 82	60							
TOTALS	(P) 19	(P) 38	(P) 6	(P) 88	(P) 60							
UNIT	m (P)	m (P)	m (P)	m (P)	m (P)							
ITEM No.	31	32		33	34							
Reference												

MINISTRY OF TRANSPORTATION - ONTARIO

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Steel Beam Guide Rail

**QUANTITIES - MISCELLANEOUS 1**

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Location and Position	Energy Attenuator - Temporary, Reduced Exposure [TL-3]	Energy Attenuator - Relocation, Reduced Exposure [TL-3]		SBEAT System [50:1 Flare]	SBEAT System, Relocation [50:1 Flare]		TCB, Restraints Permitted, Category II		TCB, Restraints Permitted, Category IV		Temporary Construction Barrier, Relocation	References
Sub - Totals Brought Forward:												
HIGHWAY 599												
Unsurveyed Territory												
Crystal River Bridge (Site No. 41S-0098)												
Year 1 Stage 1												
28+134 Rt	1											
28+134 - 28+173 Rt, o/s 4.4m							39					
28+173 Rt	1											
28+213 Lt	1											
28+213 - 28+338 Lt, o/s 1.0m - 0.0m									125			
28+338 Lt	1											
28+369 Lt	1											
28+369 - 28+408 Lt, o/s 4.25m							39					
28+408 Lt	1											
Year 1 Stage 2												
28+213 Rt			1									
28+213 - 28+338, o/s 1.0m Rt - 0.2m Lt											125	
28+300 Lt (Temporary)					1							
28+338 Rt			1									
Year 1 Stage 3												
28+303 Lt (Temporary)					1							
Sub - Totals Carried Forward:												
	6		2		2	0	78		125		125	
	(P)		(P)		(P)	(P)	(P)		(P)		(P)	
TOTALS												
UNIT	each (P)		each (P)		each (P)	each (P)	m (P)		m (P)		m (P)	
ITEM No.	35		36		37	38	39		40		41	
Reference												
												CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

EATs, SBEATs, and TCBs

**QUANTITIES - MISCELLANEOUS 1**

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Location and Position	Energy Attenuator - Temporary, Reduced Exposure [TL-3]	Energy Attenuator - Relocation, Reduced Exposure [TL-3]		SBEAT System [50:1 Flare]	SBEAT System, Relocation [50:1 Flare]		TCB, Restraints Permitted, Category II		TCB, Restraints Permitted, Category IV		Temporary Construction Barrier, Relocation	References
Sub - Totals Brought Forward:	6	2		2	0		78		125		125	
Year 2 Stage 1												
28+069 Rt		1										
28+069 - 28+108 Rt, o/s 3.6m											39	
28+108 Rt		1										
28+135 Rt		1										
28+135 - 28+260, o/s 1.0m Rt - 0.2m Lt											125	
28+260 - 28+380, o/s 0.2m Lt - 1.0m Rt									120			
28+380 Rt		1										
28+408 Lt		1										
28+408 - 28+447 Lt, o/s 3.7m											39	
28+447 Lt		1										
Year 2 Stage 2												
28+131 Lt		1										
28+131 - 28+376, o/s 1.0m Lt - 0.9m Rt											245	
28+207 Rt					1							
28+330 Rt				1								
28+376 - 28+380, o/s 1.0m Lt - 0.9m Rt									4			
28+380 Lt		1										
Year 2 Stage 3												
Sub - Totals Carried Forward:	6	10		3	1		78		249		573	
	(P)	(P)		(P)	(P)		(P)		(P)		(P)	
TOTALS												
UNIT	each (P)	each (P)		each (P)	each (P)		m (P)		m (P)		m (P)	
ITEM No.	35	36		37	38		39		40		41	
Reference												

MINISTRY OF TRANSPORTATION - ONTARIO

EATs, SBEATs, and TCBs

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**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 6038-19-00  
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Location and Position	Energy Attenuator - Temporary, Reduced Exposure [TL-3]	Energy Attenuator - Relocation, Reduced Exposure [TL-3]	SBEAT System [50:1 Flare]	SBEAT System, Relocation [50:1 Flare]	TCB, Restraints Permitted, Category II	TCB, Restraints Permitted, Category IV	Temporary Construction Barrier, Relocation	References
Sub - Totals Brought Forward:	6	10	3	1	78	249	573	
28+218 Lt				1				
28+321 Lt			1					
Sub - Totals Carried Forward:	6	10	4	2	78	249	573	
<b>TOTALS</b>	(P) 6	(P) 10	(P) 4	(P) 2	(P) 78	(P) 249	(P) 573	
<b>UNIT</b>	each (P)	each (P)	each (P)	each (P)	m (P)	m (P)	m (P)	
<b>ITEM No.</b>	35	36	37	38	39	40	41	
<b>Reference</b>								
								CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

EATs, SBEATs, and TCBs

**QUANTITIES - MISCELLANEOUS 1**

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MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Sediment Fence Barriers		Turbidity Curtains										References
<b>Sub - Totals Brought Forward:</b>													
HIGHWAY 599													
Unsurveyed Territory													
Crystal River Bridge (Site No. 41S-0098)													
28+177 - 28+239 Lt, o/s 9.4m - 0.0m	72												
28+184 - 28+239 Rt, o/s 6.9m - 0.0m	68												
28+276 - 28+387 Rt, o/s 16.2m - 17.7m			37										
28+277 - 28+319 Lt, o/s 0.0m - 8.1m	51												
28+277 - 28+319 Rt, o/s 0.0m - 9.2 m	63												
<b>Sub - Totals Carried Forward:</b>	254		37										
	(P)		(P)										
<b>TOTALS</b>	254		37										
<b>UNIT</b>	m (P)		m (P)										
<b>ITEM No.</b>	42		43										
<b>Reference</b>													

CHKD. \_\_\_\_\_  
 APPR. \_\_\_\_\_  
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**QUANTITIES - STRUCTURE**

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SHEET  
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Structural (1 of 2)	Earth Excavation for Structure	Dewatering Structure Excavation	Supply Equipment for Driving Piles	H-Piles - HP 310X110	Rock Points	Concrete in Substructure [30 MPa]	Concrete in Deck	Reinforcing Steel Bar	Stainless Steel Reinforcing Bar	Mechanical Connectors	Stainless Steel Mechanical Connectors	Fabrication of Structural Steel	Delivery of Structural Steel	Erection of Structural Steel	Metal Traffic Barrier	References
LUMP SUM																
Highway 599																
Unsurveyed Territory																
Crystal River Bridge (Site No. 41S-0098/B0)																
Crystal River Bridge	1,000															
Crystal River Bridge		100 %														
Crystal River Bridge			100 %													
Crystal River Bridge				210.90												
Crystal River Bridge					12											
Crystal River Bridge						100 %										
Crystal River Bridge							100 %									
Crystal River Bridge								100 %								
Crystal River Bridge									100 %							
Crystal River Bridge										632						
Crystal River Bridge											12					
Crystal River Bridge												100 %				
Crystal River Bridge													100 %			
Crystal River Bridge														100 %		
Crystal River Bridge															85	
	1,000	100 %	100 %	210.90	12	100 %	100 %	100 %	100 %	632	12	100 %	100 %	100 %	85	
	(P)			(P)						(P)	(P)				(P)	
TOTALS	1,000	100 %	100 %	210.90	12	100 %	100 %	100 %	100 %	632	12	100 %	100 %	100 %	85	
UNIT	m3 (P)	lump sum	lump sum	m	each (P)	lump sum	lump sum	lump sum	lump sum	each (P)	each (P)	lump sum	lump sum	lump sum	m (P)	
ITEM No.	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	
Remarks:																CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Structural (1 of 2)

**QUANTITIES - STRUCTURE**

W.P. No. 6038-19-00  
Contract No. 2021-6010

Structural (2 of 2)	<i>Coating New Structural Steel</i>	<i>Bridge Deck Waterproofing</i>	<i>Bearings - Elastomeric, Plain</i>	<i>Dowels into Concrete</i>	<i>Precast Concrete Bridge Elements, Fabrication</i>	<i>Precast Concrete Bridge Elements, Delivery</i>	<i>Precast Concrete Bridge Elements, Installation</i>	<i>Bird Nesting Preventative Measures</i>	<i>Structure Monitoring</i>	<i>Field Cast Joints for Precast Concrete Bridge Elements</i>						References
LUMP SUM																
Highway 599																
Unsurveyed Territory																
Crystal River Bridge																
(Site No. 48S-0098/B0)																
Crystal River Bridge	100 %															
Crystal River Bridge		100 %														
Crystal River Bridge			100 %													
Crystal River Bridge				50												
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Crystal River Bridge																
Crystal River Bridge	100 %	100 %	100 %	50	100 %	100 %	100 %	100 %	100 %	100 %						
Crystal River Bridge																
<b>TOTALS</b>	100 %	100 %	100 %	50	100 %	100 %	100 %	100 %	100 %	100 %						
UNIT	lump sum	lump sum	lump sum	each (P)	lump sum	lump sum	lump sum	lump sum	lump sum	lump sum						
ITEM No.	59	60	61	62	63	64	65	66	67	68						
Remarks:																CHKD. _____ APPR. _____ DATE _____

(P)

MINISTRY OF TRANSPORTATION - ONTARIO

Structural (2 of 2)