

QUANTITY SHEETS

CONTRACT NO. 2020-4090

BOOK 1 OF 1

EASTERN REGION

QUANTITIES - GRADING

W.P. No. 4013-19-00
Contract No. 2020-4090

SHEET
1

MINISTRY OF TRANSPORTATION - ONTARIO

Description	Earth Excavation (Grading)	Reference		Reference												
Sub - Totals Brought Forward:																
Town of Greater Napanee																
Highway 401 Westbound																
Fredericksburgh Twp.																
Stage 1																
10+475 - 10+671 Lt	158															
10+900 - 11+089 LT	62															
20+735 - 20+740 Rt	3															
20+795 - 20+800 Lt	3															
Highway 401 Eastbound																
Richmond Twp.																
Stage 1																
11+660 - 11+665 Rt	3															
11+720 - 11+725 Lt	3															
Fredericksburgh Twp.																
10+378 - 10+590 Rt	171															
10+616 - 10+672 Rt	14															
Sub - Totals Carried Forward:		417														

(P)

TOTALS	417															
UNIT	m3 (P)															
ITEM No.	1															

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

Reference

Total Stripping	
Stripping Available	
Top Soil Required	
Stripping Balance	

CHKD. _____
 APPR. _____
 DATE _____

EARTH EXCAVATION, GRADING

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4013-19-00
Contract No. 2020-4090

SHEET
2

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Tack Coat [Milled Surface]	Tack Coat [Binder Course]	Tack Coat [Bridge Deck]										References
Sub - Totals Brought Forward:													
Town of Greater Napanee													
Highway 401 Westbound													
Fredericksburgh Twp.													
Stage 1													
10+475 - 10+671 Lt	752	752											
10+711 - 10+728		232	232										
10+900 - 11+089 Lt	293	293											
Stage 2													
10+711 - 10+728		232	232										
Highway 401 Eastbound													
Fredericksburgh Twp.													
Stage 1													
10+378 - 10+590 Rt	811	811											
10+616 - 10+672 Rt	67	67											
10+674 - 10+691		464	232										
Stage 2													
10+674 - 10+691		464	232										
Final													
10+542 - 10+590 Rt	227												
Sub - Totals Carried Forward:	2,150	3,315	928										
	2,150	3,315	928										
	(P)	(P)	(P)										
TOTALS		6,393											
UNIT	m2 (P)	m2 (P)	m2 (P)										
ITEM No.		2											
Reference													

CHKD. _____
APPR. _____
DATE _____

TACK COAT

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 4013-19-00
Contract No. 2020-4090

SHEET
3

Description	Superpave 12.5FC 2 - Warm Mix 60 mm, Binder Course	Superpave 12.5FC 2 - Warm Mix 50 mm, Binder Course	Superpave 12.5FC 2 - Warm Mix 50 mm, Surface Course	Superpave 12.5FC 2 - Warm Mix Varies [Pad]		Granular A [Shoulder]	Granular A [Granular Pad]									References																																																																																																																																								
Sub - Totals Brought Forward:																																																																																																																																																								
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Fredericksburgh Twp.																																																																																																																																																								
Stage 1																																																																																																																																																								
10+475 - 10+671 Lt	108		90			165																																																																																																																																																		
10+711 - 10+728 Rt	33		28																																																																																																																																																					
10+900 - 11+089 Lt	42		35			64																																																																																																																																																		
20+735 - 20+740 Lt							8																																																																																																																																																	
20+795 - 20+800 Lt							8																																																																																																																																																	
Stage 2																																																																																																																																																								
10+711 - 10+728 Lt	33		28																																																																																																																																																					
Highway 401 Eastbound																																																																																																																																																								
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11+720 - 11+725 Rt							8																																																																																																																																																	
Fredericksburgh Twp.																																																																																																																																																								
10+378 - 10+590 Rt	116		97			178																																																																																																																																																		
10+616 - 10+672 Rt	10		8			15																																																																																																																																																		
Sub - Totals Carried Forward:																																																																																																																																																								
	342	0	286	0		422	32																																																																																																																																																	
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MINISTRY OF TRANSPORTATION - ONTARIO

WARM MIX AND GRANULAR

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 4013-19-00
Contract No. 2020-4090

SHEET
4

Description	<i>Superpave 12.5FC 2 - Warm Mix 60 mm, Binder Course</i>	<i>Superpave 12.5FC 2 - Warm Mix 50 mm, Binder Course</i>	<i>Superpave 12.5FC 2 - Warm Mix 50 mm, Surface Course</i>	<i>Superpave 12.5FC 2 - Warm Mix Varies [Pad]</i>		<i>Granular A [Shoulder]</i>	<i>Granular A [Granular Pad]</i>									References
Sub - Totals Brought Forward:	342	0	286	0		422	32									
10+674 - 10+691 Lt	33	28	28													
Stage 2																
10-674 - 10+691 Lt	33	28	28													
Final																
10+542 - 10+590 Rt			27													
10+542 - 10+590 Rt				10			10									
Sub - Totals Carried Forward:	408	56	369	10		422	42									
	408	56	369	10		422	42									
TOTALS		843					464									
UNIT	t	t	t	t		t	t									
ITEM No.		3					4									
Reference																
Remarks:															CHKD. _____ APPR. _____ DATE _____	

MINISTRY OF TRANSPORTATION - ONTARIO

WARM MIX AND GRANULAR

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4013-19-00
Contract No. 2020-4090

SHEET
5

Location and Position	Shoulder Rumble Strips - Asphalt [MTOD 503.020]	Concrete Curb and Gutter [OPSD 600.040] [Straight]	Concrete Curb and Gutter [OPSD 600.020] [Straight]	Concrete Gutter Outlets [OPSD 605.030]									References
Sub - Totals Brought Forward:													
Town of Greater Napanee													
Highway 401 Westbound													
Final													
Fredericksburgh Twp.													
10+490 - 10+630 Lt	140												
10+978 - 11+089 Lt	111												
Highway 401 Eastbound													
Final													
Fredericksburgh Twp.													
10+423 - 10+546 Rt	123												
10+542 - 10+547 Rt			5										
10+616 Rt					1								
10+616 - 10+672 Rt				56									
Sub - Totals Carried Forward:	374		5	56	1								
	(P) 374		(P) 5	(M) 56	(P) 1								
TOTALS	374		5	56	1								
UNIT	m (P)		m (P)	m (P)	each (P)								
ITEM No.	5			6	7								
Reference													
													CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

RUMBLE STRIPS AND CONCRETE CURB AND GUTTER

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4013-19-00
Contract No. 2020-4090

SHEET
6

Location and Position	Removal of Asphalt Pavement [90mm Avg.], [Surface]	Removal of Asphalt Pavement, Partial Depth [50mm]	Removal of Asphalt Pavement from Concrete Surfaces on Structures	Removal of Concrete Curb and Gutter [Roadway]							References
Sub - Totals Brought Forward:											
Town of Greater Napanee											
Highway 401 Westbound											
Fredericksburgh Twp.											
Stage 1											
10+475 - 10+671 Lt	752	122									
10+711 - 10+728				232							
10+900 - 11+089 Lt	293	95									
Stage 2											
10+711 - 10+728				232							
Highway 401 Eastbound											
Fredericksburgh Twp.											
Stage 1											
10+674 - 10+691				232							
10+378 - 10+590 Rt	811	132									
10+542 - 10+547 Rt					5						
10+616 - 10+672 Rt	67	28			56						
Stage 2											
10+674 - 10+691				232							
Final											
10+542 - 10+590 Rt		231									
Sub - Totals Carried Forward:											
	1,923	608		928	61						
	(P)	(P)		(P)	(P)						
TOTALS	1,923	608		928	61						
UNIT	m2 (P)	m2 (P)		m2 (P)	m (P)						
ITEM No.	8	9		10	11						
Reference											
											CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

REMOVALS

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4013-19-00
Contract No. 2020-4090

SHEET
7

Location and Position	<i>Performance Bond</i>		<i>Labour and Material Payment Bond</i>												References	
Sub - Totals Brought Forward:																
Town of Greater Napanee Highway 401																
Fredericksburgh Twp.																
Throughout Limits of Contact	100 %		100 %													
Sub - Totals Carried Forward:	100 %		100 %													
TOTALS	100 %		100 %													
UNIT	lump sum		lump sum													
ITEM No.	12		13													
Reference																

MINISTRY OF TRANSPORTATION - ONTARIO

PERFORMANCE BOND, LABOUR & MATERIAL BOND

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4013-19-00
Contract No. 2020-4090

Location and Position	Pavement Marking, Durable [Solid] [Yellow, 10 cm]	Pavement Marking, Durable [Solid] [White, 10 cm]	Pavement Marking, Durable [3-9-3] [White, 10 cm]	Pavement Marking, Durable [Solid] [White, 20 cm]	Pavement Marking, Durable [3-3-3] [White, 20 cm]								References
Sub - Totals Brought Forward:													
Town of Greater Napanee													
Highway 401 Westbound													
Fredericksburgh Twp.													
10+433 - 10+443 Lt					10								
10+443 - 10+493 Lt					100								
10+443 - 10+493 Lt					100								
10+493 - 10+621 Lt		128											
10+621 - 10+688 Lt					134								
10+621 - 10+688 Lt					134								
10+688 - 10+738 Rt	50												
10+688 - 10+738 Cl			13										
10+688 - 10+738 Lt					50								
10+688 - 10+738 Lt					100								
10+890 - 10+971 Lt					81								
10+890 - 11+100 Lt					420								
Highway 401 Eastbound													
Fredericksburgh Twp.													
10+316 - 10+326 Rt					10								
10+326 - 10+434 Rt					216								
10+326 - 10+434 Rt					216								
Sub - Totals Carried Forward:													
	50	128	13	1,420	151								
	(P)	(P)	(P)	(P)	(P)								
TOTALS													
UNIT	m (P)	m (P)	m (P)	m (P)	m (P)								
ITEM No.		17											
Reference													
												CHKD. _____	
												APPR. _____	
												DATE _____	

MINISTRY OF TRANSPORTATION - ONTARIO

PAVEMENT MARKINGS

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4013-19-00
Contract No. 2020-4090

SHEET
11

Location and Position	Energy Attenuator - Temporary, Narrow [TL-3]		TCB, Freestanding, Category III		Temporary Transition Connection								References
Sub - Totals Brought Forward:													
Town of Greater Napanee													
Highway 401 Westbound													
Fredericksburgh Twp.													
Stage 1													
10+630 - 10+794 Lt			164										
10+630 - 10+794 Lt			164										
10+794 Lt	1												
10+794 Lt	1												
Stage 2													
10+630 - 10+684 Lt			56										
10+630 - 10+684 Lt			56										
10+688 - 10+818 Lt			132										
10+688 - 10+818 Lt			132										
10+701 Lt	1												
10+701 Lt	1												
10+818 Rt					1								
10+818 Rt					1								
Highway 401 Eastbound													
Fredericksburgh Twp.													
10+300 - 11+400													
Sub - Totals Carried Forward:													
	4		704		2								
TOTALS													
UNIT	(P) each (P)		(P) m (P)		(P) each (P)								
ITEM No.	18		19		20								
Reference													
													CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

EAT, TCB, TEMPORARY TRANSITION CONNECTION

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4013-19-00
Contract No. 2020-4090

SHEET
12

MINISTRY OF TRANSPORTATION - ONTARIO

EAT, TCB, TEMPORARY TRANSITION CONNECTION

Location and Position	Energy Attenuator - Temporary, Narrow [TL-3]		TCB, Freestanding, Category III		Temporary Transition Connection								References
Sub - Totals Brought Forward:	4		704		2								
Stage 1													
10+549 Rt	1												
10+549 Rt	1												
10+549 - 10+710 Rt			164										
10+549 - 10+710 Rt			164										
Stage 2													
10+609 Lt	1												
10+609 Lt	1												
10+609 - 10+710 Lt			104										
10+609 - 10+710 Lt			104										
Sub - Totals Carried Forward:	8		1,240		2								
TOTALS	(P) 8		(P) 1,240		(P) 2								
UNIT	each (P)		m (P)		each (P)								
ITEM No.	18		19		20								
Reference													

CHKD. _____
 APPR. _____
 DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 4013-19-00
Contract No. 2020-4090

Location and Position	<i>Roadway Weather Information System (RWIS) Pavement Sensors</i>	<i>Portable Queue Detection and Warning System Service</i>															References	
Sub - Totals Brought Forward:																		
Town of Greater Napanee																		
Throughout Limits of Contract			100 %															
10+978 Lt	100 %																	
Sub - Totals Carried Forward:	100 %	100 %																
TOTALS	100 %		100 %															
UNIT	lump sum		lump sum															
ITEM No.	21		22															
Reference																		

MINISTRY OF TRANSPORTATION - ONTARIO

QUEUE WARNING SYSTEM AND ROAD WEATHER INFORMATION SYSTEMS

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - STRUCTURE

W.P. No. 4013-19-00
Contract No. 2020-4090

SHEET
15

Palace Road O/P WBL - Site No. 17X-0063/B2	<i>Concrete Removal - Partial Depth - Type A</i>		<i>Concrete Removal - Full Depth</i>		<i>Abrasive Blast Cleaning of Reinforcing Steel</i>		<i>Concrete Patches, Proprietary Products</i>												References
LUMP SUM																			

Town of Greater Napanee																			
Highway 401																			
Palace Road O/P WBL Site No. 17X-0063/B2	8.80		0.50		88.0		9.400												
	8.80		0.50		88.0		9.400												

TOTALS	8.8		0.5		88		9.40												
UNIT	m3		m3		m2		m3												
ITEM No.	27		28		29		30												

Remarks:	CHKD. _____ APPR. _____ DATE _____
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MINISTRY OF TRANSPORTATION - ONTARIO

Palace Road O/P WBL - Site No. 17X-0063/B2