

QUANTITY SHEETS

CONTRACT NO. 2018-4023

BOOK 1 OF 2

ADDENDUM NO. 1

**QUANTITIES - GRADING**

W.P. No. 4169-15-00

Contract No. 2018-4023 (addendum 1)

SHEET  
3-1

MINISTRY OF TRANSPORTATION - ONTARIO

Description	Earth Excavation (Grading)	Reference	Earth Available	Reference														
Sub - Totals Brought Forward:																		
Pre-stage 1																		
County Road 31																		
9+500 - 9+827; 3.9 - 8.0 RT	63																	
9+744 - 9+753; 8.7 - 26.6 LT	3																	
9+772 - 9+782; 34.3 - 8.7 LT	5																	
10+173 - 10+197; 7.0 - 36.0 RT	8																	
10+216 - 10+418; 24.5 - 4.2 RT	62																	
Highway 401																		
12+665 - 12+842; 12.5 - 14.1 RT	15																	
12+784 - 12+950; 0.5 - 2.1 LT	14																	
Stage 1																		
County Road 31																		
9+820 - 9+965																		
Cut	1,019			917														
Fill Stripping	856			428														
10+048 - 10+182																		
Cut	91			82														
Swamp Excavation	8,501																	
Stage 1A																		
County Road 31																		
10+182 - 10+445																		
Cut	1,069			962														
Sub - Totals Carried Forward:																		
	11,706			2,389														

(P)

<b>TOTALS</b>																		
UNIT	m3 (P)			m3														
ITEM No.	3																	

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

Reference

Total Stripping		2232
Stripping Available	50%	1116
Top Soil Required		93
Stripping Balance		1023

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

Grading

**QUANTITIES - GRADING**

W.P. No. 4169-15-00  
Contract No. 2018-4023 (addendum 1)

SHEET  
3-2

MINISTRY OF TRANSPORTATION - ONTARIO

Description	Earth Excavation (Grading)	Reference	Earth Available	Reference															
Sub - Totals Brought Forward:	11,706		2,389																
Fill Stripping	761		381																
Swamp Excavation	867																		
Stage 2																			
County Road 31																			
9+640 - 9+897																			
Cut	537		483																
Fill Stripping	114		57																
10+273 - 10+445																			
Cut	168		151																
Highway 401																			
E-N/S Ramp																			
10+357 - 10+372.641																			
Cut	369		332																
N/S-W Ramp																			
10+028.492 - 10+056																			
Cut	141		127																
Fill Stripping	51		26																
Stage 3																			
County Road 31																			
9+780 - 9+965																			
Cut	90		81																
10+048 - 10+272																			
Cut	14		13																
Highway 401																			
N/S-E Ramp																			
Sub - Totals Carried Forward:	14,818		4,040																

(P)

TOTALS																			
UNIT	m3 (P)		m3																
ITEM No.	3																		

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

Reference

Total Stripping		2232
Stripping Available	50%	1116
Top Soil Required		93
Stripping Balance		1023

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

Grading

**QUANTITIES - GRADING**

W.P. No. 4169-15-00

Contract No. 2018-4023 (addendum 1)

SHEET  
3-3

Description	<i>Earth Excavation (Grading)</i>	Reference		<i>Earth Available</i>	Reference															
Sub - Totals Brought Forward:	14,818			4,040																
10+034.678 - 10+219.5																				
Cut	105			95																
Fill Stripping	205			103																
W-N/S Ramp																				
10+100 - 10+317.646																				
Cut	366			329																
Fill Stripping	245			123																
Sub - Totals Carried Forward:	15,739																			
(P)																				
<b>TOTALS</b>	15,739			4,690																
<b>UNIT</b>	m3 (P)			m3																
<b>ITEM No.</b>	3																			
Remarks: Volume adjustment factor for earth have been applied to quantities shown.																				
Total Stripping		2232																		
Stripping Available	50%	1116																		
Top Soil Required		93																		
Stripping Balance		1023																		
															Reference					
																	CHKD.	_____		
																	APPR.	_____		
																	DATE	_____		

**QUANTITIES - HOT MIX AND GRANULAR**

W.P. No. 4169-15-00

Contract No. 2018-4023 (addendum 1)

SHEET  
6-1

Description	Tack Coat	Tack Coat		Superpave 12.5FC 1	Superpave 12.5FC 1	Superpave 12.5FC 1	Superpave 19.0	Superpave 19.0	Temporary Hot Mix Pavement		Granular A	Granular A	Granular B, Type II	Select Subgrade	Granular B, Type III	References
	[Surface Course]	[Binder Course]		[40mm Surface Course]	[50mm Surface Course]	[40mm Binder Course]	[50mm Binder Course]	[50mm Base Course]		[Roadway]	[Shoulder]	[Fill]	Material, Compacted	[Sub-Base]		
Sub - Totals Brought Forward:																
Pre-stage 1																
County Road 31																
9+500 - 9+827; 3.9 - 8.0 RT							78	78								
9+744 - 9+753; 8.7 - 26.6 LT							4	4								
9+772 - 9+782; 34.3 - 8.7 LT							6	6								
10+173 - 10+197; 7.0 - 36.0 RT							10	10								
10+203 - 10+212; 26.9 - 26.7 RT							6	6								
10+216 - 10+418; 24.5 - 4.2 RT							76	76								
Highway 401																
12+665 - 12+842; 12.5 - 14.1 RT									34				32			
12+784 - 12+950; 0.5 - 2.1 LT									32				30			
Stage 1																
County Road 31																
9+820 - 9+965																
Roadway	1,313	1,313		125			161	161			812			<sup>1</sup> 11,723	2,107	
Shoulders	601			55				70				59				
10+048 - 10+182																
Roadway	1,440	1,440		139			179	179			805			<sup>1</sup> 37,560	2,590	
Shoulders	517			53				69				48				
Stage 1A																
County Road 31																
Sub - Totals Carried Forward:	3,871	2,753		372	0	0	520	659	66		1,617	169	0	49,283	4,697	
TOTALS	(P)	(P)														
UNIT	m2 (P)	m2 (P)		t	t	t	t	t	t		t	t	t	t	t	
ITEM No.		5			7			8	15			9	10	11	12	
Reference																
Remarks:	1. Also contains Select Subgrade Material quantity for shoulder															
	CHKD. _____ APPR. _____ DATE _____															

MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

**QUANTITIES - HOT MIX AND GRANULAR**

W.P. No. 4169-15-00

Contract No. 2018-4023 (addendum 1)

SHEET  
6-2

Description	Tack Coat [Surface Course]	Tack Coat [Binder Course]		Superpave 12.5FC 1 [40mm Surface Course]	Superpave 12.5FC 1 [50mm Surface Course]	Superpave 12.5FC 1 [40mm Binder Course]	Superpave 19.0 [50mm Binder Course]	Superpave 19.0 [50mm Base Course]	Temporary Hot Mix Pavement		Granular A [Roadway]	Granular A [Shoulder]	Granular B, Type II [Fill]	Select Subgrade Material, Compacted	Granular B, Type III [Sub-Base]	References
<b>Sub - Totals Brought Forward:</b>	3,871	2,753		372	0	0	520	659	66		1,617	169	0	49,283	4,697	
Bridge Deck and Approach Slabs																
9+965 - 10+049	1,021	1,021		112		83	18									
North Abutment																
9+958 - 9+981; 7.6 LT - 6.8 RT													1,804			
Centre Pier																
10+003 - 10+009; 7.0 LT - 7.0 RT													390			
South Abutment																
10+031 - 10+055; 7.6 LT - 6.9 RT													1,907			
10+182 - 10+445																
Roadway	1,739	1,739		170			218	218			989			<sup>1</sup> 17,394	2,619	
Shoulders	670			67				87				67				
Stage 2																
County Road 31																
9+635 - 9+640; 7.1 LT - 6.0 RT																
9+640 - 9+897																
Roadway	2,120	2,120		203			261	261			1,658			<sup>1</sup> 741	400	
Shoulders	913			90				116				90				
10+273 - 10+445																
Roadway	834	834		77			99	99			332			<sup>1</sup> 208		
Shoulders	471			47				60				45				
10+445 - 10+450; 6.9 LT - 7.5 RT																
89				7												
Highway 401																
E-N/S Ramp																
9+972 - 10+310; 5.0 LT - 0.7 RT	2,149				257											
10+310 - 10+373																
<b>Sub - Totals Carried Forward:</b>	13,940	8,467		1,152	257	83	1,116	1,500	66		4,596	371	4,101	67,626	7,716	
<b>TOTALS</b>	(P)	(P)														
UNIT	m2 (P)	m2 (P)		t	t	t	t	t	t		t	t	t	t	t	
ITEM No.		5			7			8	15			9	10	11	12	
Reference																
Remarks:	1. Also contains Select Subgrade Material quantity for shoulder															
	CHKD. _____ APPR. _____ DATE _____															

MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

**QUANTITIES - HOT MIX AND GRANULAR**

W.P. No. 4169-15-00

Contract No. 2018-4023 (addendum 1)

SHEET  
6-3

MINISTRY OF TRANSPORTATION - ONTARIO

Description	Tack Coat [Surface Course]	Tack Coat [Binder Course]		Superpave 12.5FC 1 [40mm Surface Course]	Superpave 12.5FC 1 [50mm Surface Course]	Superpave 12.5FC 1 [40mm Binder Course]	Superpave 19.0 [50mm Binder Course]	Superpave 19.0 [50mm Base Course]	Temporary Hot Mix Pavement		Granular A [Roadway]	Granular A [Shoulder]	Granular B, Type II [Fill]	Select Subgrade Material, Compacted	Granular B, Type III [Sub-Base]	References
<b>Sub - Totals Brought Forward:</b>	13,940	8,467		1,152	257	83	1,116	1,500	66		4,596	371	4,101	67,626	7,716	
Roadway	360	360		32			42	42			334			1 2		
Shoulders				21								31				
N/S-W Ramp 10+028 - 10+065																
Roadway	337	337		32			41	41			359			1 419		
Shoulders				12								18				
10+065 - 10+343; 6.1 LT - 0.7 RT	1,754				210											
Stage 3																
County Road 31																
9+780-9+965																
Roadway											52			1 7	85	
Shoulders												38				
10+048 - 10+272																
Roadway				6			8	8			522			1 1,975	803	
Shoulders	196			17				22				31				
Highway 401																
N/S-E Ramp 10+034 - 10+220																
Roadway	1,110	1,110		98			126	126			842			1 3,818	1,675	
Shoulders				61								58				
10+220 - 10+225; 5.8 LT - 2.1 RT	47				6											
W-N/S Ramp 9+955 - 10+100; 5.8 LT - 2.7 RT	1,201				144											
10+100 - 10+318																
Roadway	1,165	1,165		106			138	138			1,059			1 2,694	1,806	
Shoulders				72								82				
<b>Sub - Totals Carried Forward:</b>	20,110	11,439		1,609	617	83	1,471	1,877	66		7,764	629	4,101	76,541	12,085	
	20,110	11,439		1,609	617	83	1,471	1,877			7,764	629				
	(P)	(M)														
<b>TOTALS</b>		31,549			2,309			3,348	66			8,393	4,101	76,541	12,085	
<b>UNIT</b>	m2 (P)	m2 (P)		t	t	t	t	t	t		t	t	t	t	t	
<b>ITEM No.</b>		5			7			8	15			9	10	11	12	
<b>Reference</b>																

Remarks: 1. Also contains Select Subgrade Material quantity for shoulder

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

Hot Mix and Granular

## QUANTITIES - MISCELLANEOUS 1

W.P. No. 4169-15-00

Contract No. 2018-4023 (addendum 1)

SHEET  
10-1

Location and Position	150 mm Pipe Subdrain [Perforated Inc. Exc. & Backfill]	150 mm Pipe Subdrain [Subdrain Non-Perforated CSP Outlet]	Rodent Gate										References
Sub - Totals Brought Forward:													
County Road 31													
9+966; 8.5 LT - 8.5 RT	12	5	2										
9+970; 22.9 LT - 13.0 RT	31	5	2										
10+043; 19.3 LT - 11.3 RT	26	5	2										
10+047; 8.5 LT - 8.5 RT	12	5	2										
Highway 401													
W-N/S Ramp													
10+180 - 10+312; 8.1 - 7.7 LT	124	3	1										
Sub - Totals Carried Forward:													
	205	23											
	205	23											
	(P)	(P)											
<b>TOTALS</b>		228	9										
UNIT	m (P)	m (P)	each										
ITEM No.		16											
Reference													

MINISTRY OF TRANSPORTATION - ONTARIO

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

Pipe Subdrain



**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 4169-15-00

Contract No. 2018-4023 (addendum 1)

SHEET  
12-1

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Removal of Asphalt Pavement [50mm], [Surface]	Removal of Asphalt Pavement [100mm], [Surface]	Removal of Asphalt Pavement [170mm], [Surface]	Removal of Asphalt Pavement [180mm], [Surface]	Removal of Asphalt Pavement [185mm], [Surface]	Removal of Asphalt Pavement [200mm], [Surface]	Removal of Asphalt Pavement [225mm], [Surface]		Removal of Asphalt Pavement, Partial Depth [40mm]	Removal of Asphalt Pavement, Partial Depth [50mm]		Removal of Asphalt Pavement from Concrete Surfaces on Structures	References
Sub - Totals Brought Forward:													
County Road 31 - Removal of Prestage Shoulder Strengthening													
9+500 - 9+827; 3.9 - 8.0 RT		628											
9+744 - 9+753; 8.7 - 26.6 LT		27											
9+772 - 9+782; 34.3 - 8.7 LT		46											
10+173 - 10+197; 7.0 - 36.0 RT		80											
10+203 - 10+212; 26.9 - 26.7 RT		46											
10+216 - 10+418; 24.5 - 4.2 RT		611											
County Road 31													
9+635 - 9+640; 7.1 LT - 6.0 RT									65				
9+640 - 9+971; 7.0 LT - 8.0 RT			4,900										
9+971 - 10+042; 7.5 LT - 7.9 RT												1,101	
10+042 - 10+446; 7.5 LT - 7.5 RT			5,121										
10+446 - 10+451; 6.9 LT - 7.5 RT									73				
Highway 401													
E-N/S Ramp													
10+305 - 10+310; 5.0 LT - 0.7 RT										2,149			
10+310 - 10+372; 4.9 LT - 4.0 RT				423									
N/S-W Ramp													
10+029 - 10+065; 9.4 LT - 0.7 RT						295							
Sub - Totals Carried Forward:	0	1,438	10,021	423	0	295	0		138	2,149		1,101	
	(P)	(P)	(P)	(P)	(P)	(P)	(P)		(P)	(P)		(P)	
TOTALS													
UNIT	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)		m2 (P)	m2 (P)		m2 (P)	
ITEM No.		20								21		22	
Reference													
													CHKD. _____ APPR. _____ DATE _____

Rem. of Asp., F.D. / Rem. of Asp., P.D.

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 4169-15-00  
Contract No. 2018-4023 (addendum 1)

SHEET  
12-2

Location and Position	Removal of Asphalt Pavement [50mm], [Surface]	Removal of Asphalt Pavement [100mm], [Surface]	Removal of Asphalt Pavement [170mm], [Surface]	Removal of Asphalt Pavement [180mm], [Surface]	Removal of Asphalt Pavement [185mm], [Surface]	Removal of Asphalt Pavement [200mm], [Surface]	Removal of Asphalt Pavement [225mm], [Surface]		Removal of Asphalt Pavement, Partial Depth [40mm]	Removal of Asphalt Pavement, Partial Depth [50mm]		Removal of Asphalt Pavement from Concrete Surfaces on Structures	References
<b>Sub - Totals Brought Forward:</b>	0	1,438	10,021	423	0	295	0		138	2,149		1,101	
10+065 - 10+070; 6.1 LT - 0.7 RT										1,754			
N/S-E Ramp													
10+048 - 10+220; 10.3 LT - 2.7 RT					1,484								
10+220 - 10+225; 5.8 LT - 2.1 RT										47			
W-N/S Ramp													
10+095 - 10+100; 5.8 LT - 2.7 RT										1,201			
10+100 - 10+304; 6.0 LT - 1.7 RT							1,726						
Highway 401 - Removal of Median Shoulder Strengthening													
12+665 - 12+842; 12.5 - 14.1 RT	284												
12+784 - 12+950; 0.5 - 2.1 LT	266												
<b>Sub - Totals Carried Forward:</b>	550	1,438	10,021	423	1,484	295	1,726		138	5,151		1,101	
	550	1,438	10,021	423	1,484	295	1,726		138	5,151			
	(P)	(P)	(P)	(P)	(P)	(P)	(P)		(P)	(P)		(P)	
<b>TOTALS</b>		15,937								5,289		1,101	
<b>UNIT</b>	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)		m2 (P)	m2 (P)		m2 (P)	
<b>ITEM No.</b>		20								21		22	
<b>Reference</b>													
													CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Rem. of Asp., F.D. / Rem. of Asp., P.D.

QUANTITIES - STRUCTURE

W.P. No. 4169-15-00  
Contract No. 2018-4023 (addendum 1)

SHEET  
42

4415-01-01 - Structural - Addendum 1

	<i>Embedded Work in Structure (Ministry)</i>	<i>Deck Drains</i>	<i>Steel Pile Corrosion Assessment</i>	<i>Pile Instrumentation and Monitoring System</i>																References
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LUMP SUM

100 %

2

100 %

100 %

100 %

2

100 %

100 %

(P)

TOTALS

100 %

2

100 %

100 %

UNIT

lump sum

each (P)

lump sum

lump sum

ITEM No.

191

192

193

194

Remarks:

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

MINISTRY OF TRANSPORTATION - ONTARIO

4415-01-01 - Structural - Addendum 1