

QUANTITY SHEETS  
CONTRACT NO. 2020-5013  
BOOK 1 OF 1

**NORTH REGION**  
**NORTHEAST**





**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
 Contract No. 2020-5013

Location and Position	<i>Clearing</i>		<i>Grubbing</i>										References
Sub - Totals Brought Forward:													
Highway 17													
Alona Bay Creek Culvert - Site No. 38S-0353/C0													
Township of Slater													
18+058 - 18+111 Lt (o/s 13.8m - 30.0m)	530		530										
Sub - Totals Carried Forward:	530		530										
TOTALS	(P) 530		(P) 530										
UNIT	m2 (P)		m2 (P)										
ITEM No.	1		2										
Reference													

MINISTRY OF TRANSPORTATION - ONTARIO

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

Clearing & Grubbing





**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
4

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Tack Coat [Milled Surface]	Tack Coat [Lower Binder]	Tack Coat [Upper Binder]	Tack Coat [Approach Slab]	Tack Coat [Bridge Deck]								References
Sub - Totals Brought Forward:													
Highway 17													
Barrett River Bridge - Site No. 38C-0014/B0													
Township of Goodwillie													
14+934 - 14+997 (Shoulder)	475 70												
14+997 - 15+033 (Shoulder)		270 52	270 52										
15+033 - 15+039 (Shoulder)				45 11									
15+039 - 15+057 (Shoulder)					136 36								
15+057 - 15+063 (Shoulder)				45 11									
15+063 - 15+097 (Shoulder)		255 46	255 46										
15+097 - 15+169 (Shoulder)	540 40												
Sand River Bridge - Site No. 38C-0013/B0													
Township of Goodwillie													
10+955 - 10+994 (Shoulder)	292 54												
10+994 - 11+006 (Shoulder)		90 38	90 38										
11+006 - 11+012				45									
Sub - Totals Carried Forward:													
	1,471	751	751	157	172								
	(P)	(P)	(P)	(P)	(P)								
<b>TOTALS</b>													
UNIT	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)								
ITEM No.		5											
Reference													

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

Tack Coat

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
 Contract No. 2020-5013

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Tack Coat [Milled Surface]	Tack Coat [Lower Binder]	Tack Coat [Upper Binder]	Tack Coat [Approach Slab]	Tack Coat [Bridge Deck]							References
<b>Sub - Totals Brought Forward:</b>	1,471	751	751	157	172							
(Shoulder)				24								
11+012 - 11+074					464							
(Shoulder)					258							
11+074 - 11+080				45								
(Shoulder)				26								
10+080 - 11+094		105	105									
(Shoulder)		50	50									
11+094 - 11+141	351											
(Shoulder)	110											
<b>Sub - Totals Carried Forward:</b>	1,932	906	906	252	894							
	1,932	906	906	252	894							
	(P)	(P)	(P)	(P)	(P)							
<b>TOTALS</b>		4,890										
<b>UNIT</b>	m2 (P)	m2 (P)	m2 (P)	m2 (P)	m2 (P)							
<b>ITEM No.</b>		5										
<b>Reference</b>												

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

Tack Coat



**QUANTITIES - HOT MIX AND GRANULAR**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
6

Description	Superpave 12.5 - 40 mm Lift Thickness Roadway Surface	Superpave 12.5 - 40 mm Lift Thickness Fully Paved Shoulder Surface	Superpave 12.5 - 40 mm Lift Thickness Roadway Binder	Superpave 12.5 - 40 mm Lift Thickness Fully Paved Shoulder Binder		Superpave 12.5 - 50 mm Lift Thickness Roadway Upper Binder	Superpave 12.5 - 50 mm Lift Thickness Fully Paved Shoulder Upper Binder	Superpave 12.5 - 50 mm Lift Thickness Roadway Lower Binder	Superpave 12.5 - 50 mm Lift Thickness Fully Paved Shoulder Lower Binder		Granular A [Roadway]	Granular A [Structure Backfill]	Granular A [Pipe Bedding and Cover]			References
	Sub - Totals Brought Forward:															
Highway 17																
Alona Bay Creek Culvert - Site No. 38S-0353/C0																
Township of Slater																
17+987 - 18+060 Rt (Perforated Sewer Pipe Bedding and Cover)														112		
18+094 Lt (NW & SW Wingwalls)												711				
Barrett River Bidge - Site No. 38C-0014/B0																
Township of Goodwillie																
14+934 - 14+997 (Roadway)	475															
14+934 - 14+997 (Shoulder)	70															
14+997 - 15+033 (Roadway)	270					270		270			4					
14+997 - 15+033 (Shoulder)	12	40				12	40	12	40							
15+033 - 15+039 (Approach Slab Roadway)	45							45				21				
15+033 - 15+039 (Approach Slab Shoulder)		11							11							
15+039 - 15+057 (Bridge Deck Roadway)	136		136													
15+039 - 15+057 (Bridge Deck Shoulder)		36		36												
15+057 - 15+063 (Approach Slab Roadway)	45							45				21				
15+057 - 15+063 (Approach Slab Shoulder)		11							11							
15+063 - 15+097 (Roadway)	255					255		255			4					
15+063 - 15+097 (Shoulder)	40	16				40	16	40	16							
15+097 - 15+169 (Roadway)	540															
15+097 - 15+169 (Shoulder)	40															
Roadway Granular for Steel Beam Guide Rail											90					
Sub - Totals Carried Forward:	1,928	114	136	36		577	56	667	78		98	753	112			
	(P)	(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)		t	t	t			
ITEM No.		6					7					8				
Reference																
Remarks:																CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

**QUANTITIES - HOT MIX AND GRANULAR**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
7

MINISTRY OF TRANSPORTATION - ONTARIO

Description	Superpave 12.5 - 40 mm Lift Thickness Roadway Surface	Superpave 12.5 - 40 mm Lift Thickness Fully Paved Shoulder Surface	Superpave 12.5 - 40 mm Lift Thickness Roadway Binder	Superpave 12.5 - 40 mm Lift Thickness Fully Paved Shoulder Binder		Superpave 12.5 - 50 mm Lift Thickness Roadway Upper Binder	Superpave 12.5 - 50 mm Lift Thickness Fully Paved Shoulder Upper Binder	Superpave 12.5 - 50 mm Lift Thickness Roadway Lower Binder	Superpave 12.5 - 50 mm Lift Thickness Fully Paved Shoulder Lower Binder		Granular A [Roadway]	Granular A [Structure Backfill]	Granular A [Pipe Bedding and Cover]			References
<b>Sub - Totals Brought Forward:</b>	1,928	114	136	36		577	66	667	88		98	753	112			
Sand River Bridge - Site No. 38C-0013/B0																
Township of Goodwillie																
10+955 - 10+994 (Roadway)	292															
10+955 - 10+994 (Shoulder)	30	24														
10+994 - 11+006 (Roadway)	90					90		90			66					
10+994 - 11+006 (Shoulder)		38					38		38							
11+006 - 11+012 (Approach Slab Roadway)	45							45				324				
11+006 - 11+012 (Approach Slab Shoulder)		24							24							
11+012 - 11+074 (Bridge Deck Roadway)	464		464													
11+012 - 11+074 (Bridge Deck Shoulder)		258		258												
11+074 - 11+080 (Approach Slab Roadway)	45							45				324				
11+074 - 11+080 (Approach Slab Shoulder)		26							26							
11+080 - 11+094 (Roadway)	105					105		105			71					
11+080 - 11+094 (Shoulder)		50					50		50							
11+094 - 11+141 (Roadway)	351															
11+094 - 11+141 (Shoulder)	18	92														
Roadway Granular for Steel Beam Guide Rail											135					
Roadway Granular Pads for PVMS Signs											80					
<b>Sub - Totals Carried Forward:</b>	3,368	626	600	294		772	144	952	216		450	1,401	112			
	3,368	626	600	294		772	144	952	216		450	1,401	112			
	(P)	(P)	(P)	(P)		(P)	(P)	(P)	(P)		(P)	(P)	(P)			
<b>TOTALS</b>		4,888					2,084					1,963				
<b>UNIT</b>	m2 (P)	m2 (P)	m2 (P)	m2 (P)		m2 (P)	m2 (P)	m2 (P)	m2 (P)		t	t	t			
<b>ITEM No.</b>		6					7					8				
<b>Reference</b>																

Remarks:

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

Hot Mix and Granular

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
8

Location and Position	Concrete Curb and Gutter [600.040] [Straight]		Concrete Gutter Outlets [605.030]										References
Sub - Totals Brought Forward:													
Highway 17													
Barrett River Bridge - Site No. 38C-0014/B0													
Township of Goodwillie													
15+019 - 15+032 Lt	13												
15+032 Lt			1										
15+019 - 15+032 Rt	13												
15+032 Rt			1										
15+062 - 15+076 Lt	14												
15+076 Lt			1										
15+062 - 15+077 Rt	15												
15+077 Rt			1										
Sand River Bridge - Site No. 38C-0013/B0													
Township of Goodwillie													
10+993 Lt			1										
10+993 - 11+006 Lt	13												
10+993 Rt			1										
10+993 - 11+006 Rt	13												
11+083 Lt			1										
11+083 - 11+094 Lt	11												
Sub - Totals Carried Forward:													
	(P)		(P)										
TOTALS													
UNIT	m (P)		each (P)										
ITEM No.	9		10										
Reference													
													CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Concrete Curb and Gutter

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

Location and Position	Concrete Curb and Gutter [600.040] [Straight]	Concrete Gutter Outlets [605.030]															References
Sub - Totals Brought Forward:	92	7															
11+083 Rt		1															
11+083 - 11+096 Rt	13																
Sub - Totals Carried Forward:	105	8															
TOTALS	(P) 105	(P) 8															
UNIT	m (P)	each (P)															
ITEM No.	9	10															
Reference																	
															CHKD. _____ APPR. _____ DATE _____		

MINISTRY OF TRANSPORTATION - ONTARIO

Concrete Curb and Gutter

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 5376-11-00  
Contract No. 2020-5013

MINISTRY OF TRANSPORTATION - ONTARIO

Temporary Hot Mix Pavement

Description	Temporary Hot Mix Pavement																		References
Sub - Totals Brought Forward:																			
Highway 17																			
Barrett River Bridge - Site No. 38C-0014/B0																			
Township of Goodwillie																			
Stage 1																			
14+934 - 14+985 Rt (o/s 4.3m - 5.8m)		7																	
14+989 - 15+032 Lt (o/s 4.3m - 5.0m)		3																	
15+063 - 15+091 LT (o/s 4.4m - 5.1m)		3																	
Stage 2																			
14+980 - 15+032 Rt (o/s 4.3m - 4.8m)		3																	
15+062 - 15+088 Rt (o/s 4.5m - 5.7m)		3																	
Sand River Bridge - Site No. 38C-0013/B0																			
Township of Goodwillie																			
10+912 - 10+967 Rt (o/s 4.2m - 5.8m)		8																	
10+994 - 11+012 Lt (o/s 4.9m - 5.0m)		3																	
11+075 - 11+094 Lt (o/s 5.1m - 5.2m)		3																	
Sub - Totals Carried Forward:		33																	

TOTALS	33																		
UNIT	t																		
ITEM No.	11																		
Reference																			

Remarks:

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

Temporary Hot Mix

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
11

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Raised Transverse Rumble Strips													References
Sub - Totals Brought Forward:														
Highway 17														
Barrett River Bridge - Site No. 38C-0014/B0														
Township of Goodwillie														
Stage 1														
14+406 - 14+831 Rt	77													
15+262 - 15+686 Lt	77													
Sand River Bridge - Site No. 38C-0013/B0														
Township of Goodwillie														
Stage 1														
10+385 - 10+809 Rt	77													
11+280 - 11+705 Lt	77													
Sub - Totals Carried Forward:	308													
TOTALS	308													
UNIT	m													
ITEM No.	12													
Reference														
														CHKD. _____ APPR. _____ DATE _____

Transverse Rumble Strips

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

Location and Position	150 mm Pipe Subdrain [Perforated Including Geotextile and Clear Stone]	150 mm Pipe Subdrain [Non-Perforated Including Coring and Grout]	Rodent Grate										References
Sub - Totals Brought Forward:													
Highway 17													
Sand River Bridge - Site No. 38C-0013/B0													
Township of Goodwillie													
North Abutment (11+011 o/s 6.0m Lt - 6.0m Rt)	10	1	2										
South Abutment (11+075 o/s 6.0m Lt - 6.0m Rt)	10	1	2										
Sub - Totals Carried Forward:	20	2											
	20	2											
	(P)	(P)											
<b>TOTALS</b>		22	4										
<b>UNIT</b>	m (P)	m (P)	each										
<b>ITEM No.</b>		13											
<b>Reference</b>													

MINISTRY OF TRANSPORTATION - ONTARIO

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

Pipe Subdrains

**QUANTITIES - SEWERS**

W.P. No. 5376-11-00  
Contract No. 2020-5013

Str. No to Str. No or Station to Station	Location and Position	Inv Elevation		Depth to Pipe	Pipe Fill Material			Pipe Joints	300 mm Pipe Sewer 300 S 001 000 300 C 000 000							References
		Upstream	Downstream		Bedding	Cover	Backfill									
Sub - Totals Brought Forward:																
Highway 17																
Alona Bay Creek Culvert	Site No. 38S-0353/C0															
Township of Slater																
17+987 - 18+060	Rt Ditch (o/s 10.5 - 14.6m)	197.90	197.30	0.5	G	G	G	S	1 74							
Sub - Totals Carried Forward:																
									74							

MINISTRY OF TRANSPORTATION - ONTARIO

<p><b>Pipe Material Code - 6 digits defined as noted below:</b></p> <p><b>1st digit = Concrete</b> 1 - 50-D 2 - 65-D 3 - 100-D 4 - 140-D</p> <p><b>2nd digit = PVC/PP</b> 1 - PVC 2 - PP</p> <p><b>3rd digit = HDPE</b> 1 - Open profile 2 - Closed profile</p> <p><b>4th digit = Galv; 5th digit = Alum &amp; 6th digit = Polymer Steel</b> 1 - 1.6 mm thick 2 - 2.0 mm thick 3 - 2.8, 3.0 &amp; 3.18 mm thick 4 - 3.5, 3.81 &amp; 4.0 mm thick</p> <p><b>Note:</b> '0' for any digit means the pipe material is not acceptable. Higher pipe material code values are also acceptable, unless otherwise stated. Galv. means galvanized coating. Alum means aluminized coated or aluminum alloy materials. Polymer means both laminated and coated steel pipes.</p>	<p><b>Pipe Joints</b> <b>S</b> - Soil tight <b>F</b> - Silt/Fines tight <b>L</b> - Leak tight <b>Note:</b> S joints is specified if no code is entered.</p> <p><b>Pipe Type</b> <b>S</b> - Smooth inner wall pipe <b>C</b> - Corrugated inner wall pipe</p> <p><b>Depth to Pipe</b> is from the surface at the upstream invert to top of base pipe opening unless otherwise stated.</p> <p><b>Pipe Fill Material</b> <b>N</b> - Native or Granular <b>G</b> - Granular A or B Type I, II or III <b>B</b> - Granular A or B Type II <b>A</b> - Granular A <b>U</b> - Unshrinkable fill</p> <p><b>Notes:</b> N applies to cover and backfill only. 1 letter code specifies material for all pipes. 2 letter codes specify fill materials for rigid and flexible pipes respectively. G for bedding and N for cover and backfill are specified if no code is entered. Embedment material for flexible pipes specified in bedding material column.</p>	<table border="1"> <tr> <td></td> <td align="right">(P)</td> </tr> <tr> <td><b>TOTALS</b></td> <td align="right">74</td> </tr> <tr> <td><b>UNIT</b></td> <td align="right">m (P)</td> </tr> <tr> <td><b>ITEM No.</b></td> <td align="right">14</td> </tr> </table> <p align="center">1. Sewer shall be perforated HDPE pipe.</p>		(P)	<b>TOTALS</b>	74	<b>UNIT</b>	m (P)	<b>ITEM No.</b>	14	<p>CHKD. _____</p> <p>APPR. _____</p> <p>DATE _____</p>
	(P)										
<b>TOTALS</b>	74										
<b>UNIT</b>	m (P)										
<b>ITEM No.</b>	14										

Sewers



**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
14

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Removal of Asphalt Pavement [Full Depth 150mm], [Mainline]	Removal of Asphalt Pavement from Concrete Surfaces [Full Depth 90mm]	Removal of Asphalt Pavement, Partial Depth [40mm]	Removal of Asphalt Pavement from Concrete Surfaces on Structures								References
Sub - Totals Brought Forward:												
Highway 17												
Barrett River Bridge - Site No. 38C-0014/B0												
Township of Goodwillie												
14+934 - 14+997				475								
14+934 - 14+997 Lt (Shoulder)	35											
14+934 - 14+997 Rt (Shoulder)	64											
14+997 - 15+033	357											
15+033 - 15+039 (Approach Slab)		57										
15+039 - 15+057 (Bridge Deck)				158								
15+057 - 15+063 (Approach Slab)		59										
15+063 - 15+097	348											
15+097 - 15+169				544								
15+097 - 15+169 Lt (Shoulder)	80											
15+097 - 15+169 Rt (Shoulder)	71											
Sand River Bridge - Site No. 38C-0013/B0												
Township of Goodwillie												
10+955 - 10+994				368								
10+994 - 11+006	115											
11+006 - 11+012 (Approach Slab)		57										
Sub - Totals Carried Forward:	1,070	173		1,387	158							
	(P)	(P)	(P)	(P)								
TOTALS												
UNIT	m2 (P)	m2 (P)	m2 (P)	m2 (P)								
ITEM No.	15	16	17	18								
Reference												

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

Removal of Asphalt

# QUANTITIES - MISCELLANEOUS 1

W.P. No. 5376-11-00

Contract No. 2020-5013

SHEET  
15

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Removal of Asphalt Pavement [Full Depth 150mm], [Mainline]	Removal of Asphalt Pavement from Concrete Surfaces [Full Depth 90mm]	Removal of Asphalt Pavement, Partial Depth [40mm]	Removal of Asphalt Pavement from Concrete Surfaces on Structures	References
<b>Sub - Totals Brought Forward:</b>	1,070	173	1,387	158	
11+012 - 11+074 (Bridge Deck)				581	
11+074 - 11+080 (Approach Slab)		57			
11+080 - 11+094	131				
11+094 - 11+141			455		
<b>Sub - Totals Carried Forward:</b>	1,201	230	1,842	739	
	(P)	(P)	(P)	(P)	
TOTALS	1,201	230	1,842	739	
UNIT	m2 (P)	m2 (P)	m2 (P)	m2 (P)	
ITEM No.	15	16	17	18	
Reference					

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

Removal of Asphalt

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
16

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Removal of Concrete Curb and Gutter [Roadway]	Removal of Concrete Curb and Gutter [Spillway]													References
Sub - Totals Brought Forward:															
Highway 17															
Barrett River Bridge - Site No. 38C-0014/B0															
Township of Goodville															
15+019 Lt		1													
15+019 - 15+032 Lt	13														
15+019 Rt		1													
15+019 - 15+032 Rt	13														
15+062 - 15+076 Lt	14														
15+076 Lt		1													
15+062 - 15+076 Rt	15														
15+076 Rt		1													
Sand River Bridge - Site No. 38C-0013/B0															
Township of Goodville															
10+993 Lt		1													
10+993 - 11+006 Lt	13														
10+993 Rt		1													
10+993 - 11+006 Rt	13														
11+083 - 11+094 Lt	11														
11+094 Lt		1													
Sub - Totals Carried Forward:	92	7													
	(P)	(P)													
TOTALS															
UNIT	m (P)	m (P)													
ITEM No.		19													
Reference															

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

Removal of Concrete Curb and Gutter

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

Location and Position	Removal of Concrete Curb and Gutter [Roadway]	Removal of Concrete Curb and Gutter [Spillway]												References
Sub - Totals Brought Forward:	92	7												
11+083 - 11+096 Rt	13													
11+096 Rt		1												
Sub - Totals Carried Forward:	105	8												
	105	8												
	(P)	(P)												
TOTALS		113												
UNIT	m (P)	m (P)												
ITEM No.		19												
Reference														

MINISTRY OF TRANSPORTATION - ONTARIO

Removal of Concrete Curb and Gutter

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

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
18

Location and Position	Removal of Energy Attenuators [Eccentric Loader]	Removal of Cable Guide Rail [3CGR]	Removal of Anchor Blocks	Removal of Steel Beam Guide Rail [Single Rail] [Without Channel]	Removal of Steel Beam Guide Rail [Single Rail] [With Channel]					References
Sub - Totals Brought Forward:										
Highway 17										
Barrett River Bridge - Site No. 38C-0014/B0										
Township of Goodwillie										
14+964 - 14+971 Rt	1									
14+971 - 15+011 Rt				40						
15+011 - 15+031 Rt					21					
15+000 - 15+008 Lt	1									
15+008 - 15+011 Lt				3						
15+011 - 15+032 Lt					21					
15+063 - 15+084 Rt					21					
15+084 - 15+090 Rt				6						
15+090 - 15+098 Rt	1									
15+063 - 15+084 Lt					21					
15+084 - 15+117 Lt				33						
15+117- 15+125 Lt	1									
15+090 Rt			1							
15+090 - 15+127 Rt		37								
15+127 Rt			1							
15+116 Lt			1							
15+116 - 15+165 Lt		49								
15+165 Lt			1							
Sub - Totals Carried Forward:										
	4		86		4		82	84		
	(P)		(P)		(P)		(P)	(P)		
TOTALS										
UNIT	each (P)		m (P)		each (P)		m (P)	m (P)		
ITEM No.	20		21		22		23			
Reference										
										CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Removal of Guidrail

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
19

Location and Position	Removal of Energy Attenuators [Eccentric Loader]	Removal of Cable Guide Rail [3CGR]	Removal of Anchor Blocks	Removal of Steel Beam Guide Rail [Single Rail] [Without Channel]	Removal of Steel Beam Guide Rail [Single Rail] [With Channel]	References
Sub - Totals Brought Forward:	4	86	4	82	84	
Sand River Bridge - Site No. 38C-0013/B0						
Township of Goodwillie						
10+971 - 10+979 Lt	1					
10+979 - 10+986 Lt				7		
10+986 - 11+007 Lt					21	
10+974 - 10+982 Rt	1					
10+982 - 10+986 Rt				4		
10+986 - 11+007 Rt					21	
11+083 - 11+104 Lt					21	
11+104 - 11+107 Lt				3		
11+107 - 11+115 Lt	1					
11+083 - 11+104 Rt					21	
11+104 - 11+107 Rt				3		
11+107 - 11+115 Rt	1					
11+107 Rt			1			
11+107 - 11+319 Rt		213				
11+319 Rt			1			
11+109 Lt			1			
11+109 - 11+309 Lt		200				
11+309 Lt			1			
Sub - Totals Carried Forward:	8	499	8	99	168	
	(P) 8	(P) 499	(P) 8	(P) 99	(P) 168	
TOTALS	8	499	8	99	168	
UNIT	each (P)	m (P)	each (P)	m (P)	m (P)	
ITEM No.	20	21	22	23	23	
Reference						
						CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Removal of Guidrail

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
20

Location and Position	Rock Protection	Rip-Rap (R-10)	Geotextile (Class II) (Non-woven) (FOS 105-210 micron)									References
Sub - Totals Brought Forward:												
Highway 17												
Alona Bay Creek Culvert - Site No. 38S-0353/C0												
Township of Slater												
17+950 - 18+060 Rt (o/s 8.7m - 15.0m)		850	1 300									
18+050 - 18+116 Lt (o/s 7.8m - 29.9m)	454											
Barrett River Bridge - Site No. 38C-0014/B0												
Township of Goodwillie												
15+032 Lt (o/s 5.2m - 15.2m)		15	18									
15+032 Rt (o/s 5.4m - 13.0m)		11	14									
15+054 - 15+058 Lt (o/s 0m - 11.1m)	6		13									
15+054 - 15+055 Rt (o/s 0m - 7.2m)	4		9									
15+076 Lt (o/s 5.3 - 19.1m)		19	24									
15+077 Rt (o/s 5.5 - 16.3m)		16	19									
Sand River Bridge - Site No. 38C-0013/B0												
Township of Goodwillie												
10+993 Lt (o/s 6.8m - 13.3m)		9	12									
10+993 Rt (o/s 6.8m - 10.8m)		6	9									
11+083 Lt (o/s 6.8m - 14.3m)		11	14									
11+083 Rt (o/s 6.8m - 10.8m)		16	19									
Sub - Totals Carried Forward:												
	464	953	451									
	(P)	(P)	(P)									
TOTALS	464	953	451									
UNIT	m3 (P)	m2 (P)	m2 (P)									
ITEM No.	24	25	26									
Reference												
1. Wrap around pipe sewer embedment / bedding material.												CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Rock Protection, Rip-Rap and Geotextile

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
21

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Small Signs, Ground Mounted, New <sup>1</sup>		Small Signs, Removal		PVMS (Temporary) [English] [Granular Pad]	PVMS (Temporary) [French] [Granular Pad]		Temporary Traffic Control Signs		Road Closing/ Restriction Notice Signs (TC-64)			References
Sub - Totals Brought Forward:													
Highway 17													
Alona Bay Creek Culvert - Site No. 38S-0353/C0													
Township of Slater													
18+085 Rt (o/s 0.6m)	1												
18+085 Rt (o/s 1.6m)	1												
18+103 Lt (o/s 0.6m)	1												
18+103 Lt (o/s 1.6m)	1												
Barrett River Bridge - Site No. 38C-0014/B0													
Township of Goodwillie													
15+030 Rt (o/s 1.6m)	1												
15+064 Lt (o/s 1.6m)	1												
Sand River Bridge - Site No. 38C-0013/B0													
Township of Goodwillie													
9+310 Rt					1								
9+410 Rt						1							
11+002 Rt (o/s 1.6m)	1												
11+006 Rt (o/s 0.25m)	1												
11+006 Lt (o/s 0.25m)	1												
11+084 Rt (o/s 0.25m)	1			1									
Sub - Totals Carried Forward:	10		1		1	1		0 %		0			
<b>TOTALS</b>	(P)		(P)		(P)	(P)				(P)			
UNIT	each (P)		each (P)		each (P)	each (P)		lump sum		each (P)			
ITEM No.	27		28		29	29		30		31			
Reference													
1. Offset as per OPSDs and/or MTODs.													CHKD. _____ APPR. _____ DATE _____

PVMS, Traffic Control and Ground Mounted Signs



**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

Location and Position	Small Signs, Ground Mounted, New <sup>1</sup>	Small Signs, Removal	PVMS (Temporary) [English] [Granular Pad]	PVMS (Temporary) [French] [Granular Pad]	Temporary Traffic Control Signs	Road Closing/Restriction Notice Signs (TC-64)	References
Sub - Totals Brought Forward:	10	1	1	1	0 %	0	
11+084 Lt (o/s 0.25m)	1	1					
11+088 Lt (o/s 1.6m)	1						
11+112 Rt (o/s 0.6m)	1	1					
11+160 Rt (o/s 0.6m)	1	1					
12+650 Lt			1				
12+750 Lt				1			
Throughout Contract					100 %	<sup>2</sup> 4	
Sub - Totals Carried Forward:	14	4	$\frac{2}{2}$	$\frac{2}{2}$	100 %	4	
<b>TOTALS</b>	(P) 14	(P) 4	(P) $\frac{2}{2}$	(P) $\frac{2}{2}$	100 %	(P) 4	
<b>UNIT</b>	each (P)	each (P)	each (P)	each (P)	lump sum	each (P)	
<b>ITEM No.</b>	27	28		29	30	31	
<b>Reference</b>							

MINISTRY OF TRANSPORTATION - ONTARIO

PVMS, Traffic Control and Ground Mounted Signs

1. Offset as per OPSDs and/or MTODs.

2. Refer to Contract Drawings for locations.

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



**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Pavement Marking [Double Solid] [Yellow, 10cm]	Pavement Marking [Solid & 3/6/3] [Yellow, 10cm]	Pavement Marking [Solid] [White, 10cm]	Pavement Marking [3/6/3] [White, 10cm]	Pavement Marking [Solid] [White, 20cm]	Pavement Marking [Dashed 3/3/3] [White, 20cm]	Pavement Marking [Dashed 3/3/3] [White, 10cm]						References
Sub - Totals Brought Forward:													
Highway 17													
Sand River Bridge - Site No. 38C-0013/B0													
Barrett River Bridge - Site No. 38C-0014/B0													
Township of Goodwillie													
8+910 - 9+910 CL	1 2,000												
9+910 - 10+264 CL		472											
10+264 - 10+688 CL		565											
10+688 - 10+855 CL		334											
10+870 - 12+180 CL		2,620											
12+180 - 13+935 CL		1 3,510											
13+935 - 15+492 CL		3,114											
15+492 - 15+816 CL			432										
15+816 - 16+131 CL			420										
16+131 - 16+190 CL			118										
16+190 - 17+190 CL			1 2,000										
8+910 - 9+910 Lt				1 1,000									
9+910 - 10+849 Lt				939									
10+874 - 12+180 Lt				1,306									
10+868 - 10+938 Lt							35						
Sub - Totals Carried Forward:													
	13,696	1,889	3,245	0	0	0	35						
	(P)	(P)	(P)	(P)	(P)	(P)	(P)						
<b>TOTALS</b>													
UNIT	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)						
ITEM No.		33											
Reference													
1. Refer to Special Provision.												CHKD. _____ APPR. _____ DATE _____	

Pavement Markings - Permanent

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Pavement Marking [Double Solid] [Yellow, 10cm]	Pavement Marking [Solid & 3/6/3] [Yellow, 10cm]	Pavement Marking [Solid] [White, 10cm]	Pavement Marking [3/6/3] [White, 10cm]	Pavement Marking [Solid] [White, 20cm]	Pavement Marking [Dashed 3/3/3] [White, 20cm]	Pavement Marking [Dashed 3/3/3] [White, 10cm]								References
Sub - Totals Brought Forward:	13,696	1,889	3,245	0	0	0	35								
12+050 - 12+080 Lt					60										
12+080 - 12+130 Lt						50									
12+180 - 13+935 Lt			<sup>1</sup> 1,755												
12+180 - 13+935 Lt							<sup>1</sup> 1,755								
13+935 - 16+190 Lt			2,255												
13+935 - 14+825 Lt				297											
16+190 - 17+190 Lt			<sup>1</sup> 1,000												
8+910 - 9+910 Rt			<sup>1</sup> 1,000												
9+910 - 12+180 Rt			2,270												
11+182 - 12+180 Rt				333											
12+180 - 13+935 Rt			<sup>1</sup> 1,755												
13+935 - 16+190 Rt			2,255												
16+190 - 17+190 Rt			<sup>1</sup> 1,000												
Sub - Totals Carried Forward:	13,696	1,889	16,535	630	60	50	1,790								
	(P)	(P)	(P)	(P)	(P)	(P)	(P)								
TOTALS		34,650													
UNIT	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)								
ITEM No.		33													
Reference															
1. Refer to Special Provision.														CHKD. _____	
														APPR. _____	
														DATE _____	

Pavement Markings - Permanent

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
 Contract No. 2020-5013

Location and Position	Pavement Marking, Temporary [Stop Block] [White, 60cm]												References
Sub - Totals Brought Forward:													
Highway 17													
Barrett River Bridge - Site No. 38C-0014/B0													
Township of Goodwillie													
14+934 Rt (o/s 0m - 3.7m)	24												
15+160 Lt (o/s 0m - 3.7m)	24												
Sand River Bridge - Site No. 38C-0013/B0													
Township of Goodwillie													
10+909 Rt (o/s 0m - 3.7m)	24												
11+180 Lt (o/s 0m - 3.7m)	24												
Sub - Totals Carried Forward:													
<div style="display: flex; justify-content: space-between;"> <span>(P)</span> <span>96</span> </div>													
<div style="display: flex; justify-content: space-between;"> <span>TOTALS</span> <span>96</span> </div>													
<div style="display: flex; justify-content: space-between;"> <span>UNIT</span> <span>m (P)</span> </div>													
<div style="display: flex; justify-content: space-between;"> <span>ITEM No.</span> <span>34</span> </div>													
Reference													
<div style="display: flex; justify-content: space-between;"> <span>CHKD.</span> <span>_____</span> </div>													
<div style="display: flex; justify-content: space-between;"> <span>APPR.</span> <span>_____</span> </div>													
<div style="display: flex; justify-content: space-between;"> <span>DATE</span> <span>_____</span> </div>													

MINISTRY OF TRANSPORTATION - ONTARIO

Pavement Markings - Temporary

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
27

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Adjust Cable Guide Rail		Single Rail SBGR [OPSD 912.186]		Single Rail SBGR with Channel [OPSD 912.315]		SBEAT System [50:1 Flare]						References
Sub - Totals Brought Forward:													
Highway 17													
Alona Bay Creek Culvert - Site No. 38S-0353/C0													
Township of Slater													
17+987 - 18+142 Rt	155												
18+014 - 18+131 Lt	117												
Highway 17													
Barrett River Bridge - Site No. 38C-0014/B0													
Township of Goodwillie													
14+928 - 14+943 Lt							1						
14+943 - 15+012 Lt			69										
15+012 - 15+032 Lt					20								
14+960 - 14+975 Rt							1						
14+975 - 15+012 Rt			37										
15+012 - 15+032 Rt					20								
15+062 - 15+082 Lt					20								
15+082 - 15+210 Lt			128										
15+210 - 15+225 Lt							1						
15+062 - 15+082 Rt					20								
15+082 - 15+159 Rt			77										
Sub - Totals Carried Forward:													
	272		311		80		3						
	(P)		(P)		(P)		(P)						
TOTALS													
UNIT	m (P)		m (P)		m (P)		each (P)						
ITEM No.	35		36		37		40						
Reference													

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

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
 Contract No. 2020-5013

SHEET  
28

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	Adjust Cable Guide Rail	Single Rail SBGR [OPSD 912.186]	Single Rail SBGR with Channel [OPSD 912.315]	SBEAT System [50:1 Flare]													References			
Sub - Totals Brought Forward:	272	311	80	3																
15+159 - 15+174 Rt				1																
Highway 17																				
Sand River Bridge - Site No. 38C-0013/B0																				
Township of Goodwillie																				
10+911 - 10+926 Lt					1															
10+926 - 10+986 Lt			60																	
10+986 - 11+006 Lt				20																
10+950 - 10+965 Rt					1															
10+965 - 10+986 Rt			21																	
10+986 - 11+006 Rt				20																
11+083 - 11+103 Lt				20																
11+103 - 11+294 Lt			191																	
11+294 - 11+309 Lt					1															
11+083 - 11+103 Rt				20																
11+103 - 11+361 Rt			258																	
11+361 - 11+376 Rt					1															
Sub - Totals Carried Forward:	272	841	160	8																
(P) (P) (P) (P)																				
TOTALS	272	841	160	8																
UNIT	m (P)	m (P)	m (P)	each (P)																
ITEM No.	35	36	37	40																
Reference																				

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

Guldorail

**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
29

Location and Position	Energy Attenuator - Temporary, Narrow [TL-3] 1		Energy Attenuator - Relocation, Narrow [TL-3] 1		Temporary Construction Barrier, Category IV		Temporary Construction Barrier, Relocation						References
Sub - Totals Brought Forward:													
Highway 17													
Barrett River Bridge - Stie No. 38C-0014/B0													
Township of Goodwillie													
Stage 1													
14+951 - 14+958	1												
14+958 - 15+098					140								
15+098 - 15+105	1												
Stage 2													
14+979 - 14+986			1										
14+986 - 15+151					25		140						
15+151 - 15+158			1										
Highway 17													
Sand River Bridge - Site No. 38C-0013/B0													
Township of Goodwillie													
Stage 1													
10+959 - 10+966	1												
10+966 - 11+126					160								
11+126 - 11+133	1												
Stage 2													
Sub - Totals Carried Forward:													
	4		2		325		140						
	(P)		(P)		(P)		(P)						
TOTALS													
UNIT	each (P)		each (P)		m (P)		m (P)						
ITEM No.	38		39		41		42						
Reference													
1. Install on precast concrete pad.													CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Staging



**QUANTITIES - MISCELLANEOUS 1**

W.P. No. 5376-11-00  
Contract No. 2020-5013

SHEET  
30

Location and Position	Energy Attenuator - Temporary, Narrow [TL-3] 1	Energy Attenuator - Relocation, Narrow [TL-3] 1	Temporary Construction Barrier, Category IV	Temporary Construction Barrier, Relocation							References
Sub - Totals Brought Forward:	4	2	325	140							
10+955 - 10+962		1									
10+962 - 11+134			12	160							
11+134 - 11+141		1									
Sub - Totals Carried Forward:	4	4	337	300							
TOTALS	(P) 4	(P) 4	(P) 337	(P) 300							
UNIT	each (P)	each (P)	m (P)	m (P)							
ITEM No.	38	39	41	42							
Reference											
1. Install on precast concrete pad.											CHKD. _____ APPR. _____ DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Staging

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5376-11-00  
Contract No. 2020-5013

													References
Location and Position	<i>Light-Duty Silt Fence Barriers</i>		<i>Rock Flow Check Dams</i>		<i>Bird Nesting Structure</i>		<i>Bird Nesting Preventative Measures</i>						
Sub - Totals Brought Forward:													
Highway 17													
Alona Bay Creek Culvert - Site No. 38S-0353/C0													
Township of Slater													
18+062 Rt (o/s 15.8m)			1										
18+071 Rt (o/s 20.8m)			1										
18+073 - 18+082 Lt (o/s 21.7m - 31.3m)	17												
18+084 - 18+090 Lt (o/s 22.3m - 35.9m)	16												
Sand River Bridge - Site No. 38C-0013/B0													
Township of Goodwillie													
11+016 Lt (o/s 20.0m)				1									
11+012 - 11+073 (Sand River Bridge)						100 %							
11+076 Lt (o/s 20.0m)				1									
Sub - Totals Carried Forward:	33		2		2		100 %						
TOTALS	(P) 33		(P) 2		(P) 2		100 %						
UNIT	m (P)		each (P)		each (P)		lump sum						
ITEM No.	43		44		45		46						
Reference													

**QUANTITIES - TEMPORARY INSTALLATION**

W.P. No. 5376-11-00

Contract No. 2020-5013

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	Maintenance and Operation For Temporary Traffic Signal System Work	Rock Excavation for Electrical Installations	#4 AWG Low Voltage Cables Aerial on Messenger Cable [Temporary]	#8 AWG, Low Voltage Cables, Aerial on Messenger Cable [Temporary]	7-Cond. Traffic Signal Cables Aerial on Messenger Cable [Temporary]	7 mm, Grade 110 Steel Messenger Cables Aerial [Temporary]	9 mm, Grade 160 Steel Messenger Cables Aerial [Temporary]	ACSR Cables, Aerial #2 AWG, 3 Conductors [Temporary]	#2/0 AWG, Bare, Ground Wire [Temporary]	#6 AWG, Bare, Ground Wire [Temporary]	#6 AWG, Insulated, Ground Wire [Temporary]	Ground Electrodes [Temporary] [Rods]	Supply Control Cabinet Assemblies [Temporary] Type 3, 1Ph 120/240 V, MTOD-2441.000	
Sub - Totals Brought Forward:																			
Highway 17 / Barrett River Bridge						100 %													
Highway 17	P101	7.2		14+974															1
Highway 17	P102	8.9		14+974															1
Highway 17	P103	8.9		15+027															
Highway 17	P104	8.9		15+083															
Highway 17	P105	8.9		15+130			0.50							45	18				4
Highway 17	P106	8.9		15+130															5
Highway 17	FB101	4*		15+460															
Highway 17				P101-P102	16				32		16	16							
Highway 17				P102-P103	53				106	53		53							
Highway 17				P103-P104	56				112	56		56							
Highway 17				P104-P105	47				94	47		47							
Highway 17				P105-P106	18			36		18	18	18							
Highway 17 / Sand River Bridge						100 %													
Highway 17	P201	9.2		10+949															1
Highway 17	P202	9.0		10+949															1
Highway 17	P203	9.0		11+010															
Highway 17	P204	9.0		11+076															
Highway 17	P205	9.0		11+135															1
Highway 17	P206	9.0		11+135															
Highway 17	P207	12.0		10+910			0.50							45	18				4
Highway 17				P207-P202	39			78	78			39							39
Highway 17				P202-P201	19				38		19	19							
Highway 17				P202-P203	61				122	61		61							
Highway 17				P203-P204	66				132	66		66							
Highway 17				P204-P205	59				118	59		59							
Sub - Totals Carried Forward:						100 %	1.00	114	832	360	53	434	90	36	5	39	13	2	
						(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)
TOTALS																			
UNIT						lump sum	m3 (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	each (P)	each (P)
ITEM No.						47	48	49	50	51	52	53	54	55					

MINISTRY OF TRANSPORTATION - ONTARIO

Temporary Span Wire Traffic Signals

Remarks5. Includes a meter base, Generlink generator adaptor.

Note: 1 When shown without \*, offset is from centre or control line of roadway.  
When shown with \*, offset is from edge of travelled pavement (EP).

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

**QUANTITIES - TEMPORARY INSTALLATION**

W.P. No. 5376-11-00

Contract No. 2020-5013

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	14 m, Class 4 Wood Poles Direct Buried in Earth [Temporary]	14 m, Class 4 Wood Poles Direct Buried in Rock [Temporary]	Guy Anchors (Temporary)	400W HPS Luminaire, 120 V Ballast c/w 250 W HPS Lamp [Temporary]	2.4 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires, 3 Wires/Pole	Highway Type Signal Heads (Temporary) <sup>3</sup>	Riser Wires #14 AWG, 5/C	Flasher Beacons [Temporary] [Electrical Details]	Riser Wires #18 AWG, 2/C	150mmx150mmx5000mm Wooden Post (Temporary) <sup>1</sup>	Traffic Signal Controllers [Temporary] [MTOD 2528.020]	Non-Intrusive Detection System (Temporary)
Sub - Totals Brought Forward:										2.4	#12							
Highway 17 / Barrett River Bridge																		1
Highway 17	P101	7.2		14+974		1		1	1		14							
Highway 17	P102	8.9		14+974		1		2										
Highway 17	P103	8.9		15+027		1												
Highway 17	P104	8.9		15+083		1												
Highway 17	P105	8.9		15+130			1	2	1	1	14							
Highway 17	P106	8.9		15+130		1		1									1	
Highway 17	FB101	4*		15+460										1			1	
Highway 17				P101-P102	16							2	20.0					
Highway 17				P102-P103	53													
Highway 17				P103-P104	56													
Highway 17				P104-P105	47													
Highway 17				P105-P106	18							2	22.0					
Highway 17 / Sand River Bridge																		1
Highway 17	P201	9.2		10+949		1		1	1		14							
Highway 17	P202	9.0		10+949		1		2										1
Highway 17	P203	9.0		11+010		1												
Highway 17	P204	9.0		11+076		1												
Highway 17	P205	9.0		11+135		1		2	1	1	14							
Highway 17	P206	9.0		11+135		1		1										
Highway 17	P207	12.0		10+910			1											
Highway 17				P207-P202	39													
Highway 17				P202-P201	19							2	21.0					
Highway 17				P202-P203	61													
Highway 17				P203-P204	66													
Highway 17				P204-P205	59													
Sub - Totals Carried Forward:						11	2	12	4	4	56	6	63.0	1	0	1	2	2
						(P)	(P)	(P)	(P)			(P)		(P)			(P)	(P)
TOTALS																		
UNIT						each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	m (P)	each (P)	m (P)	each	each (P)	each (P)
ITEM No.						56	57	58	59			60		61			62	63

MINISTRY OF TRANSPORTATION - ONTARIO

Temporary Span Wire Traffic Signals

Remarks: 1. Wooden Post is part of the Signage item (By others).

3. Highway signal heads to be all 30cm lenses ( Oversize).

Note: 1 When shown without \*, offset is from centre or control line of roadway. When shown with \*, offset is from edge of travelled pavement (EP).

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

**QUANTITIES - TEMPORARY INSTALLATION**

W.P. No. 5376-11-00  
Contract No. 2020-5013

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	Non-Intrusive Detection System (Detectors) (Temporary) 4	Non-Intrusive Detection System (Cables) (Temporary) 4											
Sub - Totals Brought Forward:																		
Highway 17 / Barrett River Bridge																		
Highway 17	P101	7.2		14+974		1												
Highway 17	P102	8.9		14+974														
Highway 17	P103	8.9		15+027														
Highway 17	P104	8.9		15+083														
Highway 17	P105	8.9		15+130		1												
Highway 17	P106	8.9		15+130														
Highway 17	FB101	4*		15+460														
Highway 17				P101-P102	16		16											
Highway 17				P102-P103	53		53											
Highway 17				P103-P104	56		56											
Highway 17				P104-P105	47		47											
Highway 17				P105-P106	18		18											
Highway 17 / Sand River Bridge																		
Highway 17	P201	9.2		10+949		1												
Highway 17	P202	9.0		10+949														
Highway 17	P203	9.0		11+010														
Highway 17	P204	9.0		11+076														
Highway 17	P205	9.0		11+135		1												
Highway 17	P206	9.0		11+135														
Highway 17	P207	12.0		10+910														
Highway 17				P207-P202	39													
Highway 17				P202-P201	19		19											
Highway 17				P202-P203	61		61											
Highway 17				P203-P204	66		66											
Highway 17				P204-P205	59		59											
Sub - Totals Carried Forward:						4	395											
TOTALS																		
UNIT						each	each											
ITEM No.																		

MINISTRY OF TRANSPORTATION - ONTARIO

Temporary Span Wire Traffic Signals

Remarks: This Item is part of the Non-Intrusive Detection System Item.

Note: 1 When shown without \*, offset is from centre or control line of roadway.  
When shown with \*, offset is from edge of travelled pavement (EP).

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

**QUANTITIES - TEMPORARY INSTALLATION**

W.P. No. 5376-11-00  
Contract No. 2020-5013

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	Maintenance and Operation For Temporary Traffic Signal System Work	Rock Excavation for Electrical Installations	#4 AWG Low Voltage Cables Aerial on Messenger Cable [Temporary]	#8 AWG, Low Voltage Cables, Aerial on Messenger Cable [Temporary]	7-Cond. Traffic Signal Cables Aerial on Messenger Cable [Temporary]	7 mm, Grade 110 Steel Messenger Cables Aerial [Temporary]	9 mm, Grade 160 Steel Messenger Cables Aerial [Temporary]	ACSR Cables, Aerial #2 AWG, 3 Conductors [Temporary]	#2/0 AWG, Bare, Ground Wire [Temporary]	#6 AWG, Bare, Ground Wire [Temporary]	#6 AWG, Insulated, Ground Wire [Temporary]	Ground Electrodes [Temporary] [Rods]	Supply Control Cabinet Assemblies [Temporary] Type 3, 1Ph 120/240 V, MTOD-2441.000	
<b>Sub - Totals Brought Forward:</b>						100 %	1.00	114	832	360	53	434	90	36	5	39	13	2	
Highway 17				P205-P206	19						19	19							
<b>Sub - Totals Carried Forward:</b>						100 %	1.00	114	832	360	72	453	90	36	5	39	13	2	
								114	832			72	453			36	5	39	
								(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)
<b>TOTALS</b>						100 %	1.0	946	360	525	90	80	13	2					
<b>UNIT</b>						lump sum	m3 (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	each (P)	each (P)	
<b>ITEM No.</b>						47	48	49	50	51	52	53	54	55					

MINISTRY OF TRANSPORTATION - ONTARIO

Temporary Span Wire Traffic Signals

Remarks:

Note: 1 When shown without \*, offset is from centre or control line of roadway. When shown with \*, offset is from edge of travelled pavement (EP).

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

**QUANTITIES - TEMPORARY INSTALLATION**

W.P. No. 5376-11-00

Contract No. 2020-5013

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	14 m, Class 4 Wood Poles Direct Buried in Earth [Temporary]	14 m, Class 4 Wood Poles Direct Buried in Rock [Temporary]	Guy Anchors (Temporary)	400W HPS Luminaire, 120 V Ballast c/w 250 W HPS Lamp [Temporary]	2.4 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires, 3 Wires/Pole	Highway Type Signal Heads (Temporary) <sup>3</sup>	Riser Wires #14 AWG, 5/C	Flasher Beacons [Temporary] [Electrical Details]	Riser Wires #18 AWG, 2/C	150mmx150mmx5000mm Wooden Post (Temporary) <sup>1</sup>	Traffic Signal Controllers [Temporary] [MTOD 2528.020]	Non-Intrusive Detection System (Temporary)	
Sub - Totals Brought Forward:						11	2	12	4	4	56	6	63.0	1	0	1	2	2	
Highway 17				P205-P206	19							2	23.0						
Sub - Totals Carried Forward:						11	2	12	4	4	56	8	86.0	1	0		2	2	
									4					1					
						(P)	(P)	(P)	(P)			(P)		(P)			(P)	(P)	
TOTALS						11	2	12	4			8		1		1		2	2
UNIT						each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	m (P)	each (P)	m (P)	each	each (P)	each (P)	
ITEM No.						56	57	58	59			60		61			62	63	

MINISTRY OF TRANSPORTATION - ONTARIO

Temporary Span Wire Traffic Signals

Remarks: 1. Wooden Post is part of the Signage item (By others).

3. Highway signal heads to be all 30cm lenses ( Oversize).

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

**QUANTITIES - TEMPORARY INSTALLATION**

W.P. No. 5376-11-00  
Contract No. 2020-5013

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	Non-Intrusive Detection System (Detectors) (Temporary) 4	Non-Intrusive Detection System (Cables) (Temporary) 4												
Sub - Totals Brought Forward:						4	395												
Highway 17				P205-P206	19														
Sub - Totals Carried Forward:																			
TOTALS						4	395												
UNIT						each	each												
ITEM No.																			

MINISTRY OF TRANSPORTATION - ONTARIO

Temporary Span Wire Traffic Signals

Remarks: This Item is part of the Non-Intrusive Detection System Item.

Note: 1 When shown without \*, offset is from centre or control line of roadway.  
When shown with \*, offset is from edge of travelled pavement (EP).

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





**QUANTITIES - STRUCTURE**

W.P. No. 5376-11-00  
Contract No. 2020-5013

Barrett River Bridge (WP 5376-11-01)

	Earth Excavation for Structure	Concrete in Substructure [30 MPa]	Concrete in Approach Slabs	Reinforcing Steel Bar	Mechanical Connectors	Bridge Deck Waterproofing	Form and Fill Grooves	Membrane Reinforcement	Scarifying	Access to Work Area, Work Platform and Scaffolding	Concrete Removal - Partial Depth - Type A	Concrete Removal - Partial Depth - Type B	Concrete Removal - Partial Depth - Type C	Concrete Removal - Full Depth	Abrasive Blast Cleaning of Reinforcing Steel	References
LUMP SUM																
Barrett River Bridge (Sta. 15+048)	47	100 %	100 %	100 %	46	100 %	62.60	21.30	168.7	100 %	2.50	1.50	2.50	100 %	79.0	
	47	100 %	100 %	100 %	46	100 %	62.60	21.30	168.7	100 %	2.50	1.50	2.50	100 %	79.0	
	(P)				(P)		(P)	(P)								
TOTALS	47	100 %	100 %	100 %	46	100 %	62.60	21.30	169	100 %	2.5	1.5	2.5	100 %	79	
UNIT	m3 (P)	lump sum	lump sum	lump sum	each (P)	lump sum	m (P)	m (P)	m2	lump sum	m3	m3	m3	lump sum	m2	
ITEM No.	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	
Remarks:																
	CHKD. _____ APPR. _____ DATE _____															

MINISTRY OF TRANSPORTATION - ONTARIO

Barrett River Bridge (WP 5376-11-01)





