QUANTITY SHEETS

CONTRACT NO. 2020-5153

BOOK 1 OF 1

NORTH REGION

NORTHEAST

Ministry Of Transportation

Ontario

INDEX

W.P. No. 5144-10-00

Contract No. 2020-5153

Sheet No.	Description
	CONTRACT DRAWINGS - BOOK 1 OF 1
	TITLE SHEET (KEY PLAN)
	INDEX SHEET
	NEBSKWASHI RIVER BRIDGE - SITE 46X-0236/B0
1-2	HORIZONTAL & VERTICAL CONTROL
3	STAGING
4	REMOVALS
5	NEW CONSTRUCTION
6	GRADING DETAILS
7	SIGN TABLE
8-11	ELECTRICAL
12-27	STRUCTURAL
	NEMEGOSENDA RIVER BRIDGE - SITE 46X-0215/B0
28	HORIZONTAL & VERTICAL CONTROL
29-30	STAGING
31	REMOVALS
32-33	NEW CONSTRUCTION
34-37	GRADING DETAILS
38	SIGN TABLE
39-42	ELECTRICAL
43-65	STRUCTURAL
	SIDEBURNED RIVER BRIDGE - SITE 46X-0015/B0
66	HORIZONTAL & VERTICAL CONTROL
67-68	STAGING
69	REMOVALS
70	NEW CONSTRUCTION
71-72	GRADING DETAILS

Sheet No.	Description
73	SIGN TABLE
74-77	ELECTRICAL
78-99	STRUCTURAL
	QUANTITY SHEETS - BOOK 1 OF 1
	NEBSKWASHI RIVER BRIDGE - SITE 46X-0236/B0
1-14	GRADING
15-20	ELECTRICAL
21-23	STRUCTURAL
	NEMEGOSENDA RIVER BRIDGE - SITE 46X-0215/B0
24-40	GRADING
41	ELECTRICAL
42-43	STRUCTURAL
	SIDEBURNED RIVER BRIDGE - SITE 46X-0015/B0
44-61	GRADING
62-65	ELECTRICAL
66-67	STRUCTURAL

Index

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 1

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Performance Bond*	*Labour and Material Payment Bond*	*Earth Ditch Cleanout*		*Tack Coat [Milled Surface]*	*Tack Coat [Binder Course]*	*Tack Coat [Concrete Surface]*		*Asphalt Gutter Outlets*				References
Sub - Totals Brought Forward:													
Highway 129 & 101 - All Three Bridge Site Locations	100 %	100 %											
Highway 129													
Township of Chapleau													
Nebskwashi River Bridge													
Site No. 46X-0236/B0													
20+434 - 20+476					350								
20+476 - 20+499						200							
20+499 - 20+504						53	53						
20+498 Rt									1				
20+516 - 20+521						45	45						
20+521 - 20+545						209							
20+545 - 20+598					475								
20+559 - 20+596 Rt			37										
Sub - Totals Carried Forward:	100 %	100 %	37		825	507	98		1				
			(P)		825 (P)	507 (P)	98 (P)		(P)				
TOTALS	100 %	100 %	37			1,430			1				
UNIT	lump sum	lump sum	m (P)		m2 (P)	m2 (P)	m2 (P)		each (P)				
ITEM No.	1	2	3			4			5				
Reference													

CHKD. _____

APPR. _____

DATE _____

Earth Ditch Cleanout & Tack Coat

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 2

Description	*Superpave 12.5 [40mm Surface Course]*	*Superpave 12.5 [40mm Binder Course]*	*Superpave 12.5 [50mm Binder Course]*		*Granular A [Roadway & Shoulder]*	*Granular A [Concrete Curb & Gutter]*	*Granular A [Bedding and Backfill]*		*RAP Shouldering*							References
Sub - Totals Brought Forward:																
Highway 129																
Township of Chapleau																
Nebskwashi River Bridge																
Site No. 46X-0236/B0																
20+434 - 20+476	35															
20+434 - 20+495 Lt									66							
20+455 - 20+497 Rt									42							
20+476 - 20+504	25		32													
20+491 - 20+498 Lt						5										
20+493 - 20+500 Rt						5										
20+504 - 20+516	10	10														
20+516 - 20+545	28		32													
20+521 - 20+548 Lt									27							
20+524 - 20+549 Rt									27							
20+545 - 20+598	47															
20+555 - 20+600 Lt									46							
20+558 - 20+601 Rt									41							
20+476 - 20+499					150											
20+521 - 20+545					157											
20+545 - 20+559 Rt (Entrance)					22											
Sub - Totals Carried Forward:	145	10	64		329	10	0		249							
TOTALS																
UNIT	t	t	t		t	t	t		m2							
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. 5144-10-00

Contract No. 2020-5153

SHEET 3

Description	*Superpave 12.5 [40mm Surface Course]*	*Superpave 12.5 [40mm Binder Course]*	*Superpave 12.5 [50mm Binder Course]*		*Granular A [Roadway & Shoulder]*	*Granular A [Concrete Curb & Gutter]*	*Granular A [Bedding and Backfill]*		*RAP Shouldering*							References
Sub - Totals Brought Forward:	145	10	64		329	10	0		249							
20+544 - 20+558 Lt (Entrance)					22											
Bridge Structure							130									
Sub - Totals Carried Forward:	145	10	64		351	10	130		249							
	145	10	64		351	10	130									
TOTALS		219				491			249							
UNIT	t	t	t		t	t	t		m2							
ITEM No.		6				7			8							
Reference																

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 4

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Concrete Curb and Gutter [OPSD 600.040] [Straight]*		*Concrete Gutter Outlets [OPSD 604.010]*										References
Sub - Totals Brought Forward:													
Highway 129													
Township of Chapleau													
Nebskwashi River Bridge													
Site No. 46X-0236/B0													
20+491 - 10+499 Lt	8												
20+493 - 20+500 Rt	7												
20+497 Lt			1										
20+498 Rt			1										
20+521 - 20+532 Lt	11												
20+524 - 20+235 Rt	11												
Sub - Totals Carried Forward:	37		2										
	(P)		(P)										
TOTALS	37		2										
UNIT	m (P)		each (P)										
ITEM No.	9		10										
Reference													

CHKD. _____

APPR. _____

DATE _____

CC&G

QUANTITIES - PIPE CULVERTS

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 5

Culvert No	Station	Location and Position	Ext Left	Ext Right	Skew No	End Finish	Depth to Pipe	Pipe Fill Material Bedding	Pipe Fill Material Cover	Pipe Fill Material Backfill	Pipe Joints	Treatment	Inv Elev Upstream	Inv Elev Downstream	*500 mm Pipe Culvert 500 + 100 S 000111 500 + 100 C 000111*						References
										Sub - Totals Brought Forward:											
		Nebskwashi River Bridge																			
		Highway 129																			
1	20+551	9.32m Lt	9.32	1				A	A	G	L				14						
2	20+552	8.80m Rt	0	8.8				A	A	G	L				14						
														Sub - Totals Carried Forward:	28						
														(P)							
														TOTALS	28						
														UNIT	m (P)						
														ITEM No.	11						

Pipe Material Code - 6 digits defined as noted below:

1st digit = Concrete
1 - 50-D or HE-A
2 - 65-D or HE-I
3 - 100-D or HE-II
4 - 140-D or HE-III
5 - HE-IV

2nd digit = PVC/PP
1 - PVC
2 - PP

3rd digit = HDPE
1 - Open Profile
2 - Closed Profile

4th digit = Galv; 5th digit = Alum, & 6th digit = Polymer Steel
1 - 1.6 mm thick
2 - 2.0 mm thick
3 - 2.8, 3.0 & 3.18 mm thick
4 - 3.5, 3.81 & 4.0 mm thick
5 - 4.2, 4.45 & 5.0 mm thick
6 - 5.08 & 6.0 mm thick
7 - 5.72 & 7.0 mm thick
8 - 6.35 mm thick

Note: '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. Applies to circular and non-circular pipes.

Pipe Type
S - Smooth inner wall pipe
C - Corrugated inner wall pipe

Pipe Joints
S - Soil tight
F - Silt/Fines tight
L - Leak tight

Note: S joints is specified if no code is entered.

End Finish (OPSD 801.01 - 02 - 03)
SqE - Square End
B - Bevel
Sk - Skew End
SB - Step Bevel
ES - Steel end section
Note: All pipes are SqE and symmetrical to CL unless otherwise stated.

Treatments
F - Frost Treatment
P - Pave Invert
S - Channel Substrate
B - Fish Baffles

Depth to Pipe is from the surface downward to top of base pipe opening at midpoint by length unless otherwise stated.

Pipe Fill Material
N - Native or Granular
G - Granular A or B Type I, II or III
B - Granular A or B Type II
A - Granular A
U - Unshrinkable fill

Notes: N applies to cover and backfill only.
1 letter specifies material for all pipes.
2 letter codes specifies fill material for rigid and flexible pipes respectively.
G for bedding and N for cover and backfill is specified if no code is entered.
Embedment material for flexible pipes specified in bedding material column.

Frost Penetration
Frost Penetration depth - 1.5 m

CHKD. _____
APPR. _____
DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 6

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Removal of Asphalt Pavement [Full Depth], [Roadway]*	*Removal of Asphalt Pavement, Partial Depth [40mm]*	*Removal of Asphalt Pavement from Concrete Surfaces on Structures*	*Removal of Asphalt Curb and Gutter [Spillway]*									References
Sub - Totals Brought Forward:													
Highway 129													
Township of Chapleau													
Nebskwashi River Bridge													
Site No. 46X-0236/B0													
20+434 - 20+476		346											
20+476 - 20+505	254												
20+498 Rt				1									
20+505 -20+515			81										
20+515 - 20+545	262												
20+545 - 20+600		474											
Sub - Totals Carried Forward:	516	820	81	1									
	(P)	(P)	(P)	(P)									
TOTALS	516	820	81	1									
UNIT	m2 (P)	m2 (P)	m2 (P)	m (P)									
ITEM No.	12	13	14	15									
Reference													

CHKD. _____

APPR. _____

DATE _____

Asphalt Removals

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 7

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Removal of Concrete Curb and Gutter [Roadway]*		*Removal of Pipes and Culverts [Culvert]*		*Removal of Energy Attenuators [Eccentric Loader]*		*Removal of Steel Beam Guide Rail [Single Rail] [With Channel]*						References
Sub - Totals Brought Forward:													
Highway 129													
Township of Chapleau													
Nebskwashi River Bridge													
Site No. 46X-0236/B0													
20+459 - 20+500 Rt							42						
20+459 Rt					1								
20+475 - 20+498 Lt							23						
20+476 Lt					1								
20+494 - 20+500 (Offset 4.6m Rt)	6												
20+521 - 20+544 Lt							23						
20+521 - 20+526 (Offset 4.6m Lt)	5												
20+524 - 20+547 Rt							23						
20+524 - 20+528 (Offset 4.6m Rt)	4												
20+544 Lt					1								
20+547 Rt					1								
20+551 Entrance (Offset 9.3m Lt)			13										
20+553 Entrance (Offset 8.8m Rt)			13										
20+580 (Offset 11.3m Rt)			20										
Sub - Totals Carried Forward:	15		46		4		111						
	(P)		(P)		(P)		(P)						
TOTALS	15		46		4		111						
UNIT	m (P)		m (P)		each (P)		m (P)						
ITEM No.	16		17		18		19						
Reference													

CHKD. _____

APPR. _____

DATE _____

Removals

QUANTITIES - MISCELLANEOUS

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 8

Description	*Rock Protection*		*Rip-Rap (R-10)*		*Geotextile (Class II) (Non-woven) (FOS 75-150 micron)*								
Sub - Totals Brought Forward:													
Highway 129													
Township of Chapleau													
Nebskwashi River Bridge													
Site No. 46X-0236/B0													
20+497 - 20+504 (Offset 5.1m - 5.9m Lt)	5				8								
20+497 (Offset 5.1m - 9.6m Lt)			6		10								
20+498 (Offset 4.6m - 14.7m Rt)			15		22								
20+500 - 20+207 (Offset 4.6m - 5.9m Rt)	5				8								
Stage 2													
20+419 - 20+498 (Offset 8.1m - 11.6m Lt)													
20+458 - 20+467 (Offset 16.1m - 4.5m Rt)													
20+519 - 20+558 (Offset 10.2m - 3.5m Lt)													
20+538 - 20+575 (Offset 5.0m - 6.8m Rt)													
Sub - Totals Carried Forward:	10		21		48								
	(P)		(P)		(P)								
TOTALS	10		21		48								
UNIT	m3 (P)		m2 (P)		m2 (P)								
ITEM No.	20		21		22								

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Rip-Rap & Geotextile

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 9

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Snow Fence*												References
Sub - Totals Brought Forward:													
Highway 129													
Township of Chapleau													
Nebskwashi River Bridge													
Site No. 46X-0236/B0													
20+419 - 20+498 (Offset 8.1m - 11.6m Lt)	80												
20+458 - 20+467 (Offset 16.1m - 4.5m Rt)	17												
20+519 - 20+558 (Offset 10.2m - 3.5m Lt)	45												
20+538 - 20+575 (Offset 5.0m - 6.8m Rt)	45												
Sub - Totals Carried Forward:	187												
TOTALS	187												
UNIT	m												
ITEM No.	23												
Reference													

CHKD. _____

APPR. _____

DATE _____

Snow Fence

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 10

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position		*Small Signs, Ground Mounted, New*		*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*					References
Sub - Totals Brought Forward:													
Highway 129													
Township of Chapleau													
Nebskwashi River Bridge													
Site No. 46X-0236/B0													
Throughout Contract Limits						100 %		4					
20+070 (Wa3L, Wa7t)				1									
20+070 (Wa103L, Wa7t)		1											
20+134 (N/A)				1									
20+134 (Wa-111, Wa-18t (B), Wa-23t (250m))		1											
20+409 (N/A)				1									
20+409 (Wa-73)		1											
20+409 (N/A)				1									
20+409 (Wa8)		1											
20+484 (Wa3R)				1									
20+484 (Wa103R)		1											
20+500 (Wa33R)				1									
20+524 (G331)				1									
20+524 (G331(B))		1											
20+534 (Wa33L)				1									
20+948 (Wa3L, Wa7t)				1									
Sub - Totals Carried Forward:		6		9		100 %		4					
		(P)		(P)				(P)					
TOTALS													
UNIT		each (P)		each (P)		lump sum		each (P)					
ITEM No.		24		25		26		27					
Reference													

CHKD. _____

APPR. _____

DATE _____

Signs

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 11

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position		*Small Signs, Ground Mounted, New*		*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*					References
Sub - Totals Brought Forward:		6		9		100 %		4					
20+948 (Wa103L, Wa7t)		1											
20+610 (N/A)				1									
20+610 (Wa-111, Wa-18t (B), Wa-23t (250m))		1											
20+544 (Wa3R)				1									
20+544 (Wa103R)		1											
20+521 (Wa33R)				1									
20+498 (Wa33L)				1									
20+495 (G331)				1									
20+495 (G331(B))		1											
Sub - Totals Carried Forward:		10		14		100 %		4					
		(P)		(P)				(P)					
TOTALS		10		14		100 %		4					
UNIT		each (P)		each (P)		lump sum		each (P)					
ITEM No.		24		25		26		27					
Reference													

CHKD. _____

APPR. _____

DATE _____

Signs

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 12

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Pavement Marking Obliterating - By Abrasive Blasting*		*Pavement Marking [Solid] [White, 10cm]*	*Pavement Marking [Solid Double] [Yellow, 10cm]*		*Pavement Marking, Temporary [Solid] [White, 10cm]*	*Pavement Marking, Temporary [Solid] [White, 10cm]*	*Pavement Marking, Temporary [Solid] [White, 60cm]*					References
Sub - Totals Brought Forward:													
Highway 129													
Township of Chapleau													
Nebskwashi River Bridge													
Site No. 46X-0236/B0													
Pre-Stage 1													
20+409 - 20+434 Cl						25							
20+434 Rt								21					
20+444 - 20+454 Rt								70					
20+409 - 20+623 Lt/Cl/Rt							712						
20+598 Lt								21					
20+598 - 20+623 Cl						25							
Stage 1													
20+434 - 20+498 Rt	65						65						
20+434 - 20+600 Lt	165						165						
20+522 - 20+600 Rt	78						78						
Stage 2													
20+434 - 20+498 Lt	64						64						
20+434 - 20+600 Rt	166						166						
20+522- 20+600 Lt	79						79						
Final Road Construction													
20+434 - 20+600 Lt/Rt			331										
20+409 - 20+623 Cl				428									
Sub - Totals Carried Forward:	617		331	428		50	1,329	112					
	(P)		(P)	(P)		(P)	(P)	(P)					
TOTALS	617			759			1,491						
UNIT	m (P)		m (P)	m (P)		m (P)	m (P)	m (P)					
ITEM No.	28			29			30						
Reference													

CHKD. _____

APPR. _____

DATE _____

Pavement Markings

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 13

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Single Rail SBGR with Channel [OPSD 912.315]*	*Single Rail SBGR, TL-3 [OPSD 912.185]*		*Energy Attenuator - Temporary, Narrow [TL-2]*	*Energy Attenuator - Relocation, Narrow [TL-2]*		*SBEAT System [50:1 Flare]*	*Steel Beam Energy Attenuating Terminal System [Parallel to Roadway]*		*TCB, Freestanding, Category IV*	*Temporary Construction Barrier, Relocation*		References
Sub - Totals Brought Forward:													
Highway 129													
Township of Chapleau													
Nebskwashi River Bridge													
Site No. 46X-0236/B0													
20+473 Rt							1						
20+473 - 20+480 Rt (Offset 3.6m - 3.7m Rt)		8											
20+474 Lt							1						
20+474 - 20+478 Lt (Offset 5.3m - 5.1m Lt)		8											
20+478 - 20+498 Lt (Offset 5.1 - 4.5m Lt)	20												
20+480 - 20+500 Rt (Offset 3.7m - 4.1m Rt)	20												
20+525 - 20+537 Lt (Offset 4.7m - 4.5m Lt)	16												
20+524 - 20+540 Rt (Offset 4.8m - 5.0m Rt)	16												
20+537 Lt								1					
20+540 Rt								1					
Stage 1													
20+462 Rt				1									
20+462 - 20+554 Rt										92			
20+554 Rt				1									
Stage 2													
20+466 Lt					1								
20+466 - 20+562 Lt										4	92		
20+562 Lt					1								
Sub - Totals Carried Forward:	72	16		2	2		2	2		96	92		
	(P)	(P)		(P)	(P)		2 (P)	2 (P)		(P)	(P)		
TOTALS	72	16		2	2			4		96	92		
UNIT	m (P)	m (P)		each (P)	each (P)		each (P)	each (P)		m (P)	m (P)		
ITEM No.	31	32		33	34			35		36	37		
Reference													

CHKD. _____

APPR. _____

DATE _____

SBGR and TCB

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 14

Location and Position	*Light-Duty Silt Fence Barriers*		*Straw Bale Flow Check Dams*		*Clean Out of Pipe Culverts*								References
Sub - Totals Brought Forward:													
Highway 129													
Township of Chapleau													
Nebskwashi River Bridge													
Site No. 46X-0236/B0													
20+493 - 20+504 Lt	16												
20+499 - 20+505 Rt	15												
20+513 - 20+521 Lt	16												
20+518 - 20+524 Rt	15												
Final Road Construction													
20+562 (Offset 8.9m Rt)			1										
20+594 (Offset 12.0m Rt)			1										
20+608 Rt					1								
Sub - Totals Carried Forward:	62		2		1								
	(P)		(P)		(P)								
TOTALS	62		2		1								
UNIT	m (P)		each (P)		each (P)								
ITEM No.	38		39		40								
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

LDSF, Staw Bale and Culvert Clean out

QUANTITIES - TEMPORARY INSTALLATION

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 15

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*	*#2 AWG, 2-Cond., NSF-2 Low Voltage Cables, Aerial with ACSR Neutral[Temporary]*	*#6 AWG Low Voltage Cables Aerial on Messenger Cable [Temporary]*	*12-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]*	*#6 AWG, Insulated, Ground Wire [Temporary]*	*#6 AWG, Bare, Ground Wire [Temporary]*	*#2/O AWG, Bare, Ground Wire [Temporary]*	*Ground Electrodes [Temporary] [Rods]*	*Supply Control Cabinet Assemblies [Temporary] Type 3, 1Ph 120/240 V, [OPSD 2441.000]*	*14 m, Class 4 Wood Poles Direct Buried in Earth [Temporary]*	*12.5 m, Class 4 Wood Poles Direct Buried in Earth [Temporary]*
Sub - Totals Brought Forward:																		
Highway 129																		
Township of Chapleau																		
Nebskawashi River Bridge						100 %												
Site No. 46X-0236/B0																		
Highway 129	P1	6.0		20+466.5										20	4	1	1	
Highway 129	P2	10.1		20+466.5														1
Highway 129	P3	9.9		20+437.5									1		1		1	
Highway 129	P4	10.2		20+496.4														
Highway 129	P5	10.2		20+528														
Highway 129	P6	10.2		20+562									1		1			
Highway 129	P7	8.8		20+562									1		1			
Highway 129	P8	3.2*	W	20+798														
Highway 129	P9	3.2*	E	20+234														
Highway 129				EP1-P1	13		13											
Highway 129			E	P1-P2	16			64	16	16	16	16						
Highway 129			N	P2-P3	28			56		28	28							
Highway 129				P1-P4	31			62	31		31							
Sub - Totals Carried Forward:						100 %	13	182	47	44	75	16	3	20	7	1	2	1
							(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)
TOTALS																		
UNIT						lump sum	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	each (P)	each (P)	each (P)	each (P)
ITEM No.						41	42	43	44		45		46		47	48		49

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 _____

MINISTRY OF TRANSPORTATION - ONTARIO

Temporary - Nebskawashi River Bridge

QUANTITIES - TEMPORARY INSTALLATION

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 31

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	5.0 m, Class - Wood Poles Direct Buried in Earth [Temporary] [1]	14.0 m, Class 4 Wood Poles Direct Buried in Rock [Temporary]	12.5 m, Class 4 Wood Poles Direct Buried in Rock [Temporary]	5.0 m, Class - Wood Poles Direct Buried in Rock [Temporary] [1]	Guy Anchors (Temporary)	400W HPS Luminaire, 120 V Ballast c/w 200 W HPS Lamp [Temporary]	2.4 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires 3 Wires/Pole	Highway Type Signal Heads (Temporary) [2]	Riser Wires #14 AWG, 5/C	Flasher Beacons [Temporary] [Detail] [3]	Riser Wires #12 AWG, 2/C	Traffic Signal Controllers [Temporary] [OPSD 2510.010 & MTOD 2510.011] [4]
Sub - Totals Brought Forward:																		
Highway 129																		
Township of Chapleau																		
Nebskawashi River Bridge																		
Site No. 46X-0236/B0																		
Highway 129	P1	6.0		20+466.5						2	1	1	5					
Highway 129	P2	10.1		20+466.5						2								1
Highway 129	P3	9.9		20+437.5						1	1	1	5					
Highway 129	P4	10.2		20+496.4				1		2								
Highway 129	P5	10.2		20+528				1										
Highway 129	P6	10.2		20+562				1		2								
Highway 129	P7	8.8		20+562			1				1	1	5					
Highway 129	P8	3.2*	W	20+798					1							1		
Highway 129	P9	3.2*	E	20+234		1										1		
Highway 129				EP1-P1	13													
Highway 129			E	P1-P2	16									2	22.0			
Highway 129			N	P2-P3	28									2	38.0			
Highway 129				P1-P4	31													
Sub - Totals Carried Forward:						1	1	3	1	9	3	3	15	4	60.0	2	0	1
						(P)	(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 (P)	m (P)	each (P)
ITEM No.								50		51	52			53		54		55

Remarks 1. 150mm x 150mm x 5m Pressure Treated Wood Post.

2. All 300mm Lenses in Diameter.

3. 300mm Flasher Beacon with Solar Powered System.

4. Traffic Signal Controller c/w UPS System.

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. 5144-10-00

Contract No. 2020-5153

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 (Temporary)*	*Non-Intrusive Detectors*	*Non-Intrusive Detection Cables* [5]
Sub - Totals Brought Forward:								
Highway 129								
Township of Chapleau								
Nebskawashi River Bridge						1		
Site No. 46X-0236/B0								
Highway 129	P1	6.0		20+466.5			1	21
Highway 129	P2	10.1		20+466.5			1	8
Highway 129	P3	9.9		20+437.5				
Highway 129	P4	10.2		20+496.4				
Highway 129	P5	10.2		20+528				
Highway 129	P6	10.2		20+562				
Highway 129	P7	8.8		20+562			1	135
Highway 129	P8	3.2*	W	20+798				
Highway 129	P9	3.2*	E	20+234				
Highway 129				EP1-P1	13			
Highway 129			E	P1-P2	16			
Highway 129			N	P2-P3	28			
Highway 129				P1-P4	31			
Sub - Totals Carried Forward:						1	3	164
TOTALS						(P)		
UNIT						each (P)	each	m
ITEM No.						56		

Remarks[5]. Non-Intrusive Detection Cable as per Manufacturer's Recommendations.

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. 5144-10-00

Contract No. 2020-5153

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*	*#2 AWG, 2-Cond., NSF-2 Low Voltage Cables, Aerial with ACSR Neutral[Temporary]*	*#6 AWG Low Voltage Cables Aerial on Messenger Cable [Temporary]*	*12-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]*	*#6 AWG, Insulated, Ground Wire [Temporary]*	*#6 AWG, Bare, Ground Wire [Temporary]*	*#2/O AWG, Bare, Ground Wire [Temporary]*	*Ground Electrodes [Temporary] [Rods]*	*Supply Control Cabinet Assemblies [Temporary] Type 3, 1Ph 120/240 V, [OPSD 2441.000]*	*14 m, Class 4 Wood Poles Direct Buried in Earth [Temporary]*	*12.5 m, Class 4 Wood Poles Direct Buried in Earth [Temporary]*
Sub - Totals Brought Forward:						100 %	13	182	47	44	75	16	3	20	7	1	2	1
Highway 129				P4-P5	32			64	32		32							
Highway 129				P5-P6	34			68	34		34							
Highway 129			W	P6-P7	19			38		19	19							
Sub - Totals Carried Forward:						100 %	13	352	113	63	160	16	3	20	7	1	2	1
							(P)	(P)	(P)	63 (P)	160 (P)	16 (P)	3 (P)	20 (P)	(P)	(P)	2 (P)	1 (P)
TOTALS						100 %	13	352	113		223		39		7	1		4
UNIT						lump sum	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	each (P)	each (P)	each (P)	each (P)
ITEM No.						41	42	43	44		45		46		47	48		49

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. 5144-10-00

Contract No. 2020-5153

SHEET 31

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	5.0 m, Class - Wood Poles Direct Buried in Earth [Temporary] [1]	14.0 m, Class 4 Wood Poles Direct Buried in Rock [Temporary]	12.5 m, Class 4 Wood Poles Direct Buried in Rock [Temporary]	5.0 m, Class - Wood Poles Direct Buried in Rock [Temporary] [1]	Guy Anchors (Temporary)	400W HPS Luminaire, 120 V Ballast c/w 200 W HPS Lamp [Temporary]	2.4 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires 3 Wires/Pole	Highway Type Signal Heads (Temporary) [2]	Riser Wires #14 AWG, 5/C	Flasher Beacons [Temporary] [Detail] [3]	Riser Wires #12 AWG, 2/C	Traffic Signal Controllers [Temporary] [OPSD 2510.010 & MTOD 2510.01] [4]
Sub - Totals Brought Forward:						1	1	3	1	9	3	3	15	4	60.0	2	0	1
Highway 129				P4-P5	32													
Highway 129				P5-P6	34													
Highway 129			W	P6-P7	19													
Sub - Totals Carried Forward:						1	1	3	1	9	3	3	15	4	60.0	2	0	1
						1 (P)	1 (P)	3 (P)	1 (P)	(P)	3 (P)			4 (P)		2 (P)		(P)
TOTALS								5		9	3			4		2		1
UNIT						each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	each (P)	m (P)	each (P)	m (P)	each (P)	m (P)	each (P)
ITEM No.								50		51	52			53		54		55

Remarks 1. 150mm x 150mm x 5m Pressure Treated Wood Post.

2. All 300mm Lenses in Diameter.

3. 300mm Flasher Beacon with Solar Powered System.

4. Traffic Signal Controller c/w UPS System.

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. 5144-10-00

Contract No. 2020-5153

SHEET 20

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 (Temporary)*	*Non-Intrusive Detectors*	*Non-Intrusive Detection Cables* [5]										
Sub - Totals Brought Forward:						1	3	164										
Highway 129				P4-P5	32													
Highway 129				P5-P6	34													
Highway 129			W	P6-P7	19													
Sub - Totals Carried Forward:						1												
						(P)												
TOTALS						1	3	164										
UNIT						each (P)	each	m										
ITEM No.						56												

Remarks5. Non-Intrusive Detection Cable as per Manufacturer's Recommendations.

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. 5144-10-00

Contract No. 2020-5153

SHEET 21

Nebskwashi River Bridge (46X-0236/B0) - I	*Protection System*	*Earth Excavation for Structure*	*Dewatering Structure Excavation*	*Concrete in Structure*	*Concrete in Approach Slabs*	*Reinforcing Steel Bar*	*Mechanical Connectors*	*Metal Traffic Barrier*	*Bridge Deck Waterproofing*	*Form and Fill Grooves*	*Membrane Reinforcement*					References
LUMP SUM																
Highway 129																
Nebskwashi River Bridge	100 %	118	100 %	100 %	100 %	100 %	4	41	100 %	36.00	29.00					
Site No. 46X-0236/B0																
	100 %	118	100 %	100 %	100 %	100 %	4	41	100 %	36.00	29.00					
		(P)					(P)	(P)		(P)	(P)					
TOTALS	100 %	118	100 %	100 %	100 %	100 %	4	41	100 %	36.00	29.00					
UNIT	lump sum	m3 (P)	lump sum	lump sum	lump sum	lump sum	each (P)	m (P)	lump sum	m (P)	m (P)					
ITEM No.	57	58	59	60	61	62	63	64	65	66	67					

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Nebskwashi River Bridge (46X-0236/B0) - I

QUANTITIES - STRUCTURE

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 22

Nebskwashi River Bridge (46X-0236/B0) - II	*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*	*Abrasive Blast Cleaning for Overlays*	*Place Concrete Overlay*	*Finish and Cure Concrete Overlay*	*Concrete Refacing, Form and Pump*					References
LUMP SUM																
Highway 129																
Nebskwashi River Bridge	93.0	100 %	4.30	3.10	6.70	100 %	137.0	100 %	8	100 %	4.4					
Site No. 46X-0236/B0																
	93.0	100 %	4.30	3.10	6.70	100 %	137.0	100 %	8	100 %	4.4					
TOTALS	93	100 %	4.3	3.1	6.7	100 %	137	100 %	8	100 %	4.4					
UNIT	m2	lump sum	m3	m3	m3	lump sum	m2	lump sum	m3	lump sum	m3					
ITEM No.	68	69	70	71	72	73	74	75	76	77	78					

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Nebskwashi River Bridge (46X-0236/B0) - II

QUANTITIES - STRUCTURE

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 23

Nebskwashi River Bridge (46X-0236/B0) - III	*Concrete Patches, Unformed Surface*	*Concrete Patches, Formed Surface*	*Concrete Patches, Form and Pump*	*Modification of Deck Drains*	*Crack Injection*	*Dowels into Concrete*	*Precast Concrete Bridge Elements, Fabrication*	*Precast Concrete Bridge Elements, Delivery*	*Precast Concrete Bridge Elements, Installation*	*Expanded Polystyrene Embankment*	*Rapid Hardening Concrete*					References
LUMP SUM																
Highway 129																
Nebskwashi River Bridge	2.1	4.1	2.4	4	19	676	100 %	100 %	100 %	22	1					
Site No. 46X-0236/B0																
	2.1	4.1	2.4	4	19	676	100 %	100 %	100 %	22	1					
				(P)		(P)										
TOTALS	2.1	4.1	2.4	4	19	676	100 %	100 %	100 %	22	1					
UNIT	m3	m3	m3	each (P)	m	each (P)	lump sum	lump sum	lump sum	m3	m3					
ITEM No.	79	80	81	82	83	84	85	86	87	88	89					

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Nebskwashi River Bridge (46X-0236/B0) - III

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 24

Location and Position	*Clearing*	*Grubbing*											References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chapleau													
Nemegosenda River Bridge													
Site No. 46X-0215/B0													
14+213 - 14+234 (Offset 5.8m - 18.3m Lt)	265	265											
14+249 - 14+272 (Offset 5.7m - 18.3m Lt)	286	286											
Sub - Totals Carried Forward:	551	551											
	(P)	(P)											
TOTALS	551	551											
UNIT	m2 (P)	m2 (P)											
ITEM No.	90	91											
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Clearing and Grubbing

QUANTITIES - GRADING

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 25

Description	Earth Excavation (Grading)	Reference	Earth Available	Earth Fill	Reference		Rock Excavation (Grading)
Sub - Totals Brought Forward:							
Highway 101							
Township of Chewett							
Nemegosenda River Bridge							
Site No. 46X-0215/B0							
Stage 2 (Temporary Detour Widening)							
10+000 - 10+120 Cut/Fill	133			133			5
10+178 - 10+329 Cut/Fill	759			759			
Final Road Construction							
14+020 - 14+219	1,571			1,571			
14+261 - 14+438	422			422			
Sub - Totals Carried Forward:	2,885						5
	(P)						(P)
TOTALS	2,885		0	2,885			5
UNIT	m3 (P)		m3	m3			m3 (P)
ITEM No.	92						93
					Reference		

Total Stripping	
Stripping Available	
Top Soil Required	
Stripping Balance	

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

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Earth Excavation

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 26

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Tack Coat [Milled Surface]*	*Tack Coat [Binder Surface]*											References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chewett													
Nemegosenda River Bridge													
Site No. 46X-0215/B0													
14+021 - 14+094	658												
14+094 - 14+422		3,116											
14+422- 14+438	144												
Sub - Totals Carried Forward:	802	3,116											
	802 (P)	3,116 (P)											
TOTALS		3,918											
UNIT	m2 (P)	m2 (P)											
ITEM No.		94											
Reference													

CHKD. _____

APPR. _____

DATE _____

Tack Coat

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 27

Description	Superpave 12.5 [Surface Course (40mm)]	Superpave 12.5 [Binder Course (40mm)]	Superpave 12.5 [Binder Course (50mm)]	Granular A [Roadway]	Granular A [Temporary Detour - Preloading]	Granular A [Temporary Detour]	Granular A [TMB Backfill & Padding]	Granular A [Structure Backfill]	Granular A [Concret Curb & Gutter]	Granular A, From Stockpile [End Area Method]		Granular B, Type II [Temporary Detour]	Granular B, Type II [Roadway]	Granular B, Type II [Backfill]	RAP Shouldering	References
Sub - Totals Brought Forward:																
Highway 101																
Township of Chewett																
Nemegosenda River Bridge																
Site No. 46X-0215/B0																
Temporary Detour - Year 1					577		748									
Temporary Detour Bridge - Year 2																
Stage 1										46						
10+000 - 10+120						561				97		3,124				
10+178 - 10+308						1,067				97		920				
Final Road Construction																
Highway 101																
14+021 - 14+219				1,611									1,432			
14+021 - 14+094 Lt (Left Shoulder)	8															
14+021 - 14+094 CL (Lanes)	52															
14+021 - 14+094 Rt (Right Shoulder)	8															
14+021 - 14+211 Lt															225	
14+021 - 14+211 Rt															328	
14+094- 14+219 Lt (Left Shoulder)	15		18													
14+094 - 14+219 CL (Lanes)	87		109													
14+094 - 14+219 Rt (Right Shoulder)	15		18													
14+211 - 14+220 Lt									7							
14+211 - 14+220 Rt									7							
Nemegosenda River Bridge								153						1,734		
14+219 - 14+261 Lt (Left Shoulder)	13	13														
14+219 - 14+261 CL (Lanes)	30	30														
14+219 -14+261 Rt (Right Shoulder)	13	13														
Sub - Totals Carried Forward:	241	56	145	1,611	577	1,628	748	153	14	240		4,044	1,432	1,734	553	
TOTALS																
UNIT	t	t	t	t	t	t	t	t	t	m3		t	t	t	m2	
ITEM No.		95			96					97			98		99	
Reference																

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 28

Description	Superpave 12.5 [Surface Course (40mm)]	Superpave 12.5 [Binder Course (40mm)]	Superpave 12.5 [Binder Course (50mm)]	Granular A [Roadway]	Granular A [Temporary Detour - Preloading]	Granular A [Temporary Detour]	Granular A [TMB Backfill & Padding]	Granular A [Structure Backfill]	Granular A [Concret Curb & Gutter]	Granular A, From Stockpile [End Area Method]		Granular B, Type II [Temporary Detour]	Granular B, Type II [Roadway]	Granular B, Type II [Backfill]	RAP Shouldering	References
Sub - Totals Brought Forward:	241	56	145	1,611	577	1,628	748	153	14	240		4,044	1,432	1,734	553	
Highway 101																
14+261 - 14+438				1,470									1,032			
14+261 - 14+302 Lt									29							
14+261 - 14+032 Rt									29							
14+261 - 14+438 Rt															178	
14+261 - 14+438 Lt															195	
14+261 - 14+422 Lt (Left Shoulder)	18		20													
14+261 - 14+422 CL (Lanes)	114		141													
14+261 - 14+422 Rt (Right SHoulder)	18		20													
14+422 - 14+438 Lt (Left Shoulder)	3															
14+422 - 14+438 CL (Lanes)	13															
14+422 - 14+438 Rt (Right Shoulder)	3															
Sub - Totals Carried Forward:	410	56	326	3,081	577	1,628	748	153	72	240		4,044	2,464	1,734	926	
	410	56	326	3,081	577	1,628	748	153	72			4,044	2,464	1,734		
TOTALS		792			6,259					240			8,242		926	
UNIT	t	t	t	t	t	t	t	t	t	m3		t	t	t	m2	
ITEM No.		95			96					97			98		99	
Reference																

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Hot Mix and Granular

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Concrete Curb and Gutter [OPSD 608.010] [Straight]*	*Concrete Gutter Outlets [OPSD 604.010]*											References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chewett													
Nemegosenda River Bridge													
Site No. 46X-0215/B0													
14+211 - 14+220 Lt	9												
14+211 - 14+220 Rt	9												
14+261 - 14+302 Lt	41												
14+261 - 14+302 Rt	41												
14+297 Lt		1											
14+297 Rt		1											
Sub - Totals Carried Forward:	100	2											
	(P)	(P)											
TOTALS	100	2											
UNIT	m (P)	each (P)											
ITEM No.	100	101											
Reference													

CHKD. _____

APPR. _____

DATE _____

CC&G

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 30

MINISTRY OF TRANSPORTATION - ONTARIO

Description	*Temporary Hot Mix Pavement*															References
Sub - Totals Brought Forward:																
Highway 101																
Township of Chewett																
Nemegosenda River Bridge																
Site No. 46X-0215/B0																
Stage 2 - Temporary Detour																
10+000 - 10+120	133															
10+178 - 10+329	151															
Sub - Totals Carried Forward:	284															
TOTALS	284															
UNIT	t															
ITEM No.	102															
Reference																

Remarks:

CHKD. _____

APPR. _____

DATE _____

Temporary Hot Mix

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 31

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*150 mm Pipe Subdrain [Perforated Including Geotextile and Clear Stone]*	*Rodent Grate*	*Rip-Rap Plunge Pool w/Filter Cloth*										References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chewett													
Nemegosenda River Bridge													
Site No. 46X-0215/B0													
14+226 (West Abutment)	17	2	2										
14+255 (East Abutment)	17	2	2										
Sub - Totals Carried Forward:	34												
	(P)												
TOTALS	34	4	4										
UNIT	m (P)	each	each										
ITEM No.	103												
Reference													

CHKD. _____

APPR. _____

DATE _____

Pipe Subdrains

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 32

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Removal of Asphalt Pavement [Full Depth], [Roadway]*	*Removal of Asphalt Pavement, Partial Depth [40mm]*											References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chewett													
Nemegosenda River Bridge													
Site No. 46X-0215/B0													
14+021 - 14+094		640											
14+094 - 14+228	890												
14+094 - 14+213 (Temp Detour Removal)	1,072												
14+253 - 14+320	491												
14+272 - 14+401 (Temp Detour Removal)	1,349												
14+401 - 14+422	181												
14+422 - 14+438		140											
Sub - Totals Carried Forward:	3,983	780											
	(P)	(P)											
TOTALS	3,983	780											
UNIT	m2 (P)	m2 (P)											
ITEM No.	104	105											
Reference													

CHKD. _____

APPR. _____

DATE _____

Asphalt Removals

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 33

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Removal of Concrete Curb and Gutter [Roadway]*		*Removal of Energy Attenuators [Eccentric Loader]*		*Removal of Steel Beam Guide Rail [Single Rail] [With Channel]*	*Removal of Steel Beam Guide Rail [Single Rail] [Without Channel]*							References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chewett													
Nemegosenda River Bridge													
Site No. 46X-0215/B0													
14+124 - 14+139 Lt			1										
14+124 - 14+139 Rt			1										
14+139 - 14+208 Lt						69							
14+139 - 14+208 Rt						69							
14+208 - 14+228 Lt					20								
14+208 - 14+228 Rt					20								
14+216 - 14+228 (Offset 5.2m - 4.8m Lt)	12												
14+216 - 14+288 (Offset 4.7m - 4.6m Rt)	12												
14+253 - 14+264 (Offset 4.5m - 4.3m Lt)	11												
14+253 - 14+273 Lt					20								
14+253 - 14+264 (Offset 4.9m - 4.7m Rt)	11												
14+253 - 14+273 Rt					20								
14+273 - 14+341 Lt						68							
14+273 - 14+340 Rt						68							
14+341 - 14+356 Lt			1										
14+340 - 14+355 Rt			1										
Sub - Totals Carried Forward:	46		4		80	274							
	(P)		(P)		(P)	(P)							
TOTALS	46		4			354							
UNIT	m (P)		each (P)		m (P)	m (P)							
ITEM No.	106		107			108							
Reference													

CHKD. _____

APPR. _____

DATE _____

Removals

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 34

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Rock Protection*		*Rip-Rap (R-10)*		*Geotextile (Class II) (Non-woven) (FOS 75-150 micron)*								References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chewett													
Nemegosenda River Bridge													
Site No. 46X-0215/B0													
Temporary Modular Bridge													
10+120 - 10+122 (Offset 2.5m - 6.4m Lt)			11		13								
10+122 - 10+139 (Offset 3.3m - 6.3m Lt)	29				53								
10+120 - 10+122 (Offset 2.4m - 4.6m Rt)			7		8								
10+122 - 10+139 (Offset 3.2m - 4.6m Rt)	12				28								
10+158 - 10+176 (Offset 3.2m - 6.0m Lt)	25				43								
10+158 - 10+176 (Offset 2.3m - 4.6m Rt)	13				28								
10+176 - 10+178 (Offset 2.5m - 6.0m Lt)			9		14								
10+176 - 10+178 (Offset 2.3m - 4.6m Rt)			7		7								
West Detour Abutment					140								
East Detour Abutment					190								
Highway 101													
14+219 - 14+230 (Offset 6.5m - 14.3m Lt)	43				82								
14+219 - 14+230 (Offset 6.5m - 10.2m Rt)	27				52								
14+251 - 14+261 (Offset 6.5m - 11.6m Lt)	34				65								
14+251 - 14+261 (Offset 6.5m - 11.6m Rt)	41				78								
14+297 (Offset 5.4m Lt - end of spillway)			10		15								
14+297 (Offset 5.2m Rt - end of spillway)			10		15								
Sub - Totals Carried Forward:	224		54		831								
	(P)		(P)		(P)								
TOTALS													
UNIT	m3 (P)		m2 (P)		m2 (P)								
ITEM No.	109		110		111								
Reference													

CHKD. _____

APPR. _____

DATE _____

Rip-Rap & Geotextile

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 35

Location and Position	*Rock Protection*		*Rip-Rap (R-10)*		*Geotextile (Class II) (Non-woven) (FOS 75-150 micron)*								References
Sub - Totals Brought Forward:	224		54		831								
Sub - Totals Carried Forward:	224		54		831								
	(P)		(P)		(P)								
TOTALS	224		54		831								
UNIT	m3 (P)		m2 (P)		m2 (P)								
ITEM No.	109		110		111								
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Rip-Rap & Geotextile

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

Location and Position	*Small Signs, Ground Mounted, New*	*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*							References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chewett													
Nemegosenda River Bridge													
Site No. 46X-0215/B0													
Throughout Contract Limits				100 %		4							
Final Road Construction													
Highway 101 Eastbound													
13+939 (Wa22A)		1											
14+224 (Wa22)		1											
14+225 (G331)	1	1											
14+225 (Wa33R)		1											
14+225 (Wa33L)		1											
Highway 101 Westbound													
14+264 (G331)		1											
14+264 (Wa33R)		1											
14+264 (Wa33L)	1	1											
14+265 (Wa22)		1											
14+526 (Wa22A)		1											
Sub - Totals Carried Forward:	2	10		100 %		4							
	(P)	(P)				(P)							
TOTALS	2	10		100 %		4							
UNIT	each (P)	each (P)		lump sum		each (P)							
ITEM No.	112	113		114		115							
Reference													

CHKD. _____

APPR. _____

DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 37

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Pavement Marking Obliterating - By Abrasive Blasting*		*Pavement Marking [Soild Double] [Yellow, 10cm]*	*Pavement Marking [Solid] [White, 10cm]*		*Pavement Marking, Temporary [Solid] [White, 60cm]*		*Temporary Raised Transverse Rumble Strips*					References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chewett													
Nemegosenda River Bridge													
Site No. 46X-0215/B0													
Stage 1													
13+766 - 13+780 Rt (Set of 8)								35					
13+980 - 13+989 Rt (Set of 8)								35					
14+089 - 14+401 (Between Stop Bars)	1,248												
14+089 Rt (Stop Bar)						24							
14+401 Lt (Stop Bar)						24							
14+502 - 14+511 Lt (Set of 8)								35					
14+716 - 14+730 Lt (Set of 8)								35					
Final Road Construction													
14+021 - 14+438 Lt/CL/Rt			836	836									
Sub - Totals Carried Forward:	1,248		836	836		48		140					
	(P)		836 (P)	836 (P)		(P)							
TOTALS	1,248			1,672		48		140					
UNIT	m (P)		m (P)	m (P)		m (P)		m					
ITEM No.	116			117		118		119					
Reference													

CHKD. _____

APPR. _____

DATE _____

Pavement Marking

QUANTITIES - MISCELLANEOUS

W.P. No. 5144-10-00

Contract No. 2020-5153

MINISTRY OF TRANSPORTATION - ONTARIO

Description	*Single Rail SBGR with Channel [OPSd 912.315]*	*Single Rail SBGR, TL-3, Adjacent to 2H:1V Slope [OPSD 912.186]*	*Single Rail SBGR, TL-3, Adjacent to Curb and Gutter [OPSD 912.188]*	*TCB, Freestanding, Category II*		*Energy Attenuator - Temporary, Narrow [TL-3]*	*Energy Attenuator - Relocation, Narrow [TL-3]*		*SBEAT System [50:1 Flare]*		*Temporary Construction Barrier, Relocation*		
Sub - Totals Brought Forward:													
Highway 101													
Township of Chewett													
Nemegosenda River Bridge													
Site No. 46X-0215/B0													
Stage 1													
14+092 Lt (Install on Concrete Pad)						1							
14+380 Lt (Install on Concrete Pad)						1							
14+092 - 14+380 Lt				288									
Stage 2													
14+093 Lt							1						
14+092 - 10+120 Lt											120		
10+020 - 10+120 Rt											100		
10+178 - 10+287 Lt				40							68		
10+178 - 10+270 Rt				92									
10+270 Rt (Install on Cocrete Pad)						1							
10+287 Lt							1						
Final Road Construction													
14+138 Lt									1				
14+139 Rt									1				
Sub - Totals Carried Forward:	0	0	0	420		3	2		2		288		
	(P)	(P)	(P)	(P)		(P)	(P)		(P)		(P)		
TOTALS													
UNIT	m (P)	m (P)	m (P)	m (P)		each (P)	each (P)		each (P)		m (P)		
ITEM No.	120	121	122	123		124	125		126		127		

CHKD. _____

APPR. _____

DATE _____

SBGR & TCB

QUANTITIES - MISCELLANEOUS

W.P. No. 5144-10-00

Contract No. 2020-5153

MINISTRY OF TRANSPORTATION - ONTARIO

Description	*Single Rail SBGR with Channel [OPSd 912.315]*	*Single Rail SBGR, TL-3, Adjacent to 2H:1V Slope [OPSD 912.186]*	*Single Rail SBGR, TL-3, Adjacent to Curb and Gutter [OPSD 912.188]*	*TCB, Freestanding, Category II*		*Energy Attenuator - Temporary, Narrow [TL-3]*	*Energy Attenuator - Relocation, Narrow [TL-3]*		*SBEAT System [50:1 Flare]*		*Temporary Construction Barrier, Relocation*		
Sub - Totals Brought Forward:	0	0	0	420		3	2		2		288		
14+138 - 14+201 (Offset 4.5m - 5.3m Lt)		63											
14+139 - 14+201 (Offset 4.5m - 5.3m Rt)		63											
14+201 - 14+221 (Offset 5.3m - 6.0m Lt)	20												
14+201 - 14+221 (Offset 5.3m - 6.0m Rt)	20												
14+260 - 14+280 (Offset 6.0m - 4.5m Lt)	20												
14+260 - 14+280 (Offset 6.0m - 4.6m Rt)	20												
14+280 - 14+302 (Offset 4.5m - 4.5m Lt)			22										
14+280 - 14+302 (Offset 4.6m - 4.5m Rt)			23										
14+302 - 14+341 (Offset 4.5m - 4.5m Lt)		39											
14+302 - 14+340 (Offset 4.5m - 4.5m Rt)		38											
14+430 Rt									1				
14+431 Lt									1				
Sub - Totals Carried Forward:	80	203	45	420		3	2		4		288		
	(P)	(P)	(P)	(P)		(P)	(P)		(P)		(P)		
TOTALS	80	203	45	420		3	2		4		288		
UNIT	m (P)	m (P)	m (P)	m (P)		each (P)	each (P)		each (P)		m (P)		
ITEM No.	120	121	122	123		124	125		126		127		

CHKD. _____

APPR. _____

DATE _____

SBGR & TCB

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 40

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Topsoil, Imported*		*Seed and Mulch Standard Roadside Mix Seeding*		*Light-Duty Silt Fence Barriers*		*Straw Bale Flow Check Dams*	*Bird Nesting Preventative Measures*					References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chewett													
Nemegosenda River Bridge													
Site No. 46X-0215/B0													
On Bridge Structure								100 %					
Stage 2													
10+120 - 10+171 (Offset 32.2m Rt - 9.8m Lt)					59								
10+157 - 10+162 (Offset 34.5m Rt - 9.8m Lt)					55								
Final Road Construction													
14+039 - 14+234 Lt	125		2,497										
14+041 - 14+095 Rt	11		210										
14+067 (Offset 9.7m Lt)							1						
14+068 (Offset 9.4m Rt)							1						
14+105 - 14+219 Rt	51		1,020										
14+134 (Offset 15.2m Lt)							1						
14+137 (Offset 12.0m Rt)							1						
14+179 (Offset 16.8m Lt)							1						
14+248 - 14+438 Lt	78		1,558										
14+262 - 14+430 Rt	56		1,120										
14+421 Lt (Offset 10.0m Lt)							1						
Sub - Totals Carried Forward:	321		6,405		114		6	100 %					
			(P)		(P)		(P)						
TOTALS	321		6,405		114		6	100 %					
UNIT	m3		m2 (P)		m (P)		each (P)	lump sum					
ITEM No.	128		129		130		131	132					
Reference													

CHKD. _____

APPR. _____

DATE _____

Top Soil

QUANTITIES - TEMPORARY INSTALLATION

W.P. No. 5144-10-00

Contract No. 2020-5153

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	*5 m, Class - Wood Poles Direct Buried in Earth [Temporary]* [1]	*5 m, Class - Wood Poles Direct Buried in Rock [Temporary]* [1]	*Flasher Beacons [Temporary] [Detail]* [2]	*Riser Wires #12 AWG, 2/C*	*Portable Temporary Traffic Signals*								
Sub - Totals Brought Forward:																		
Highway 101																		
Township of Chewett																		
Nemegosenda River Bridge																		
Site No. 46X-0215/B0																		
Highway 101	PT1	7.2*	W	14+132						1								
Highway 101	PT2	7.8*	E	14+369						1								
Highway 101	P10	3.2*	W	13+889		1		1										
Highway 101	P11	3.2*	E	14+601			1	1										
Sub - Totals Carried Forward:						1	1	2	0	2								
						(P)	(P)	(P)		(P)								
TOTALS						1	1	2		2								
UNIT						each (P)	each (P)	each (P)	m (P)	each (P)								
ITEM No.						133	134	135		136								

Remarks *1.* 150mm x 150mm x 5m Pressure Treated Wood Post.

2. 300mm Flasher Beacon with Solar Powered System.

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 _____

MINISTRY OF TRANSPORTATION - ONTARIO

Temporary - Nemegosenda River Bridge

QUANTITIES - STRUCTURE

W.P. No. 5144-10-00

Contract No. 2020-5153

Nemegosenda River Bridge (46X-0215/B0) - I	Removal of Bridge Structure	Protection System	Earth Excavation for Structure	Rock Excavation for Structure	Dewatering Structure Excavation	Supply Equipment for Driving Piles	H-Piles - HP 310X110	Rock Points	Tremie Concrete	Concrete in Footings	Concrete in Substructure [(30 mpa)]	Concrete in Deck	Concrete in Parapet Walls	Concrete in Approach Slabs	Reinforcing Steel Bar	References
LUMP SUM																
Highway 101																
Nemegosenda River Bridge	100 %	100 %	770	27	100 %	100 %	66.00	12	24	79.00	100 %	100 %	100 %	100 %	100 %	
Site No. 46X-0215/B0																
Temporary Detour Bridge			485													
	100 %	100 %	1,255	27	100 %	100 %	66.00	12	24	79.00	100 %	100 %	100 %	100 %	100 %	
			(P)	(P)				(P)	(P)	(P)						
TOTALS	100 %	100 %	1,255	27	100 %	100 %	66.00	12	24	79.0	100 %	100 %	100 %	100 %	100 %	
UNIT	lump sum	lump sum	m3 (P)	m3 (P)	lump sum	lump sum	m	each (P)	m3 (P)	m3 (P)	lump sum	lump sum	lump sum	lump sum	lump sum	
ITEM No.	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	

Remarks:

CHKD. _____

APPR. _____

DATE _____

QUANTITIES - STRUCTURE

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 43

Nemegosenda River Bridge (46X-0215/B0) - II	*Stainless Steel Reinforcing Bar*	*Fabrication of Structural Steel*	*Delivery of Structural Steel*	*Erection of Structural Steel*	*Metal Traffic Barrier*	*Prestressed Concrete Girders NU 1200 Fabrication*	*Prestressed Concrete Girders NU 1200 Delivery*	*Prestressed Concrete Girders NU 1200 Installation*	*Bridge Deck Waterproofing*	*Form and Fill Grooves*	*Membrane Reinforcement*	*Temporary Modular Bridge*	*Bearings*	*Dowels Into Rock*	*Structure Monitoring*	References
LUMP SUM																
Highway 101																
Nemegosenda River Bridge	100 %	100 %	100 %	100 %	73	100 %	100 %	100 %	100 %	48.00	24.00	100 %	100 %	14	100 %	
Site No. 46X-0215/B0																
	100 %	100 %	100 %	100 %	73	100 %	100 %	100 %	100 %	48.00	24.00	100 %	100 %	14	100 %	
					(P)					(P)	(P)			(P)		
TOTALS	100 %	100 %	100 %	100 %	73	100 %	100 %	100 %	100 %	48.00	24.00	100 %	100 %	14	100 %	
UNIT	lump sum	lump sum	lump sum	lump sum	m (P)	lump sum	lump sum	lump sum	lump sum	m (P)	m (P)	lump sum	lump sum	each (P)	lump sum	
ITEM No.	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Nemegosenda River Bridge (46X-0215/B0) - II

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 44

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Clearing*		*Grubbing*										References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chapleau													
Sideburned Lake Bridge													
Site No. 46X-0015/B0													
10+602 - 10+717 Rt	1,068		1,068										
10+771 - 10+909 Rt	1,060		1,060										
10+810 - 10+933 Lt	661		661										
Sub - Totals Carried Forward:	2,789		2,789										
	(P)		(P)										
TOTALS	2,789		2,789										
UNIT	m2 (P)		m2 (P)										
ITEM No.	167		168										
Reference													

CHKD. _____

APPR. _____

DATE _____

Clearing

QUANTITIES - GRADING

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 45

Description	Earth Excavation (Grading)	Reference	Earth Available	Earth Fill	Reference		Rock Excavation (Grading)
Sub - Totals Brought Forward:							
Highway 101							
Township of Chapleau							
Sideburned Lake Bridge							
Site No. 46X-0015/B0							
Stage 2 - Temporary Detour							
9+000 - 9+112 Cut/Fill	762			762			10
9+167 - 9+329 Cut/Fill	860			860			10
Final Road Construciton							
10+549 - 10+717 Cut/Fill	185			185			
10+764 - 10+910 Cut/Fill	889			889			
Sub - Totals Carried Forward:	2,696						20
	(P)						(P)
TOTALS	2,696		0	2,696			20
UNIT	m3 (P)		m3	m3			m3 (P)
ITEM No.	169						170
						Reference	

Total Stripping	
Stripping Available	
Top Soil Required	
Stripping Balance	

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

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Earth Excavation

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 46

Location and Position	*Tack Coat [Milled Surface]*	*Tack Coat [Binder Surface]*											References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chapleau													
Sideburned Lake Bridge													
Site No. 46X-0015/B0													
10+549 - 10+602	479												
10+602 - 10+855		2,795											
10+855 - 10+910	229												
Sub - Totals Carried Forward:	708	2,795											
	708 (P)	2,795 (P)											
TOTALS		3,503											
UNIT	m2 (P)	m2 (P)											
ITEM No.		171											
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Tack Coat

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 47

MINISTRY OF TRANSPORTATION - ONTARIO

Description	Superpave 12.5 [Suface Course (40mm)]	Superpave 12.5 [Binder Course (40mm)]	Superpave 12.5 [Binder Course]	Granular A [Roadway]	Granular A [Temporary Detour]	Granular A [TMB Backfill & Padding]	Granular A [Structure Backfill]	Granular A [Concrete Curb and Gutter]		Granular B, Type II [Temporary Detour]	Granular B, Type II [Roaway]	Granular B, Type II [Bridge Backfill]	RAP Shouldering			References
Sub - Totals Brought Forward:																
Highway 101																
Township of Chapleau																
Sideburned Lake Bridge																
Site No. 46X-0015/B0																
Temporary Detour - Year 1																
Temporary Detour Bridge						1,072										
9+000 - 9+112					577					14						
9+167 - 9+329					1,314					616						
Final Road Construction																
Highway 101																
10+549 - 10+717				1,408							466					
10+549 - 10+718 Lt													95			
10+549 - 10+602 Lt (Left Shoulder)	8															
10+549 - 10+602 Cl (Lane)	37															
10+549 - 10+602 Rt (Right Shoulder)	8															
10+549 - 10+718 Rt													102			
10+602 - 10+718 Lt (Left Shoulder)	15		18													
10+602 - 10+718 Cl (Lanes)	82		101													
10+602 - 10+718 Rt (Right Shoulder	15		18													
10+710 - 10+720 Rt								7								
Sideburned Lake Bridge																
10+718 - 10+763 Lt (Left Shoulder)	13	13														
10+718 - 10+763 Cl (Lanes)	32	32														
10+718- 10+763 Rt (Right Shoulder)	13	13														
Highway 101																
10+761 - 10+793 Rt								22								
10+761 - 10+793 Lt								22								
Sub - Totals Carried Forward:	223	58	137	1,408	1,891	1,072	0	51		630	466	0	197			
TOTALS																
UNIT	t	t	t	t	t	t	t	t		t	t	t	m2			
ITEM No.		172			173						174		175			
Reference																

Remarks:

CHKD. _____

APPR. _____

DATE _____

Hot Mix and Granular

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 48

MINISTRY OF TRANSPORTATION - ONTARIO

Description	*Superpave 12.5 [Suface Course (40mm)]*	*Superpave 12.5 [Binder Course (40mm)]*	*Superpave 12.5 [Binder Course]*	*Granular A [Roadway]*	*Granular A [Temporary Detour]*	*Granular A [TMB Backfill & Padding]*	*Granular A [Structure Backfill]*	*Granular A [Concrete Curb and Gutter]*		*Granular B, Type II [Temporary Detour]*	*Granular B, Type II [Roaway]*	*Granular B, Type II [Bridge Backfill]*	*RAP Shouldering*			References
Sub - Totals Brought Forward:	223	58	137	1,408	1,891	1,072	0	51		630	466	0	197			
10+763 - 10+885 Lt (Left Shoulder)	18		23										122			
10+763 - 10+885 Cl (Lane)	87		106													
10+763 - 10+885 Rt (Right Shoulder)	18		23													
10+763 - 10+905 Rt (Right Shoulder)																
10+763 - 10+910 Rt													106			
10+764 - 10+910				1,331							792					
10+885 - 10+910 Lt (Left Shoulder)	5															
10+885 - 10+910 Cl (Lanes)	20															
10+885 - 10+910 Rt (Right Shoulder	5															
Bridge Backfill							190					2,580				
Sub - Totals Carried Forward:	376	58	289	2,739	1,891	1,072	190	51		630	1,258	2,580	425			
	376	58	289	2,739	1,891	1,072	190	51		630	1,258	2,580				
TOTALS		723			5,943						4,468		425			
UNIT	t	t	t	t	t	t	t	t		t	t	t	m2			
ITEM No.		172			173						174		175			
Reference																

Remarks:

CHKD. _____

APPR. _____

DATE _____

Hot Mix and Granular

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 49

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Concrete Curb and Gutter [OPSD 600.040] [Straight]*	*Concrete Gutter Outlets [OPSD 604.010]*											References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chapleau													
Sideburned Lake Bridge													
Site No. 46X-0015/B0													
10+710 - 10+ 720 Lt	10												
10+710 - 10+ 720 Rt	10												
10+761 - 10+793 Lt	32												
10+763 - 10+793 Rt	32												
10+788 Lt/Rt		2											
Sub - Totals Carried Forward:	84	2											
	(P)	(P)											
TOTALS	84	2											
UNIT	m (P)	each (P)											
ITEM No.	176	177											
Reference													

CHKD. _____

APPR. _____

DATE _____

CC&G and Pipe Subdrains

QUANTITIES - HOT MIX AND GRANULAR

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 50

Description	*Temporary Hot Mix Pavement*															References
Sub - Totals Brought Forward:																
Hwy 101																
Township of Chapleau																
Sideburned Lake Bridge																
Site No. 46X-0015/B0																
Stage 2 - Temporary Detour																
9+000 - 9+112	87															
9+167 - 9+329	178															
Sub - Totals Carried Forward:	265															
TOTALS	265															
UNIT	t															
ITEM No.	178															
Reference																

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Temporary Hot Mix

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 51

Location and Position	*150 mm Pipe Subdrain [Perforated Including Geotextile and Clear Stone]*	*Rodent Grade*	*Rip-Rap Plunge Pool w/ Filter Cloth*										References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chapleau													
Sideburned Lake Bridge													
Site No. 46X-0015/B0													
10+725 (West Abutment)	18	2	2										
10+756 (East Abutment)	18	2	2										
Sub - Totals Carried Forward:	36												
	(P)												
TOTALS	36	4	4										
UNIT	m (P)	each	each										
ITEM No.	179												
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pipe Subdrains

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 52

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Removal of Asphalt Pavement [Full Depth], [Roadway]*	*Removal of Asphalt Pavement, Partial Depth [40mm]*											References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chapleau													
Sideburned Lake Bridge													
Site No. 46X-0015/B0													
Stage 2 - Temporary Detour													
Highway 101													
10+549 - 10+602		453											
10+602 - 10+734	1,204												
10+754- 10+885	1,056												
10+885 -10+910		223											
Sub - Totals Carried Forward:	2,260	676											
	(P)	(P)											
TOTALS	2,260	676											
UNIT	m2 (P)	m2 (P)											
ITEM No.	180	181											
Reference													

CHKD. _____

APPR. _____

DATE _____

Asphalt Removals

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

Location and Position	*Removal of Concrete Curb and Gutter [Roadway]*		*Removal of Cable Guide Rail [3 Cable]*	*Removal of Anchor Blocks*		*Removal of Steel Beam Guide Rail [Single Rail] [Without Channel]*							References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chapleau													
Sideburned Lake Bridge													
Site No. 46X-0015/B0													
10+694 - 10+731 Rt						36							
10+710 - 10+731 Lt						19							
10+722 - 10+731 (Offset 6.3m Lt)	9												
10+722 - 10+731 Rt (Offset 6.1m Lt)	9												
10+757 - 10+761 (Offset 6.1m - 6.0mLt)	4												
10+757 - 10+763 Rt (Offset 6.2m Rt)	7												
10+757 - 10+778 Rt						21							
10+757 - 10+825 Lt						68							
10+773 - 10+806 Rt			33										
10+773 Rt				1									
10+806 Rt				1									
Sub - Totals Carried Forward:	29		33	2		144							
	(P)		(P)	(P)		(P)							
TOTALS	29		33	2		144							
UNIT	m (P)		m (P)	each (P)		m (P)							
ITEM No.	182		183	184		185							
Reference													

CHKD. _____

APPR. _____

DATE _____

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 54

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Rock Protection*		*Rip-Rap (R-10)*		*Geotextile (Class II) (Non-woven) (FOS 75-150 micron)*		*Gabion Structures Not Exceeding 2 m Height*						References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chapleau													
Sideburned Lake Bridge													
Site No. 46X-0015/B0													
Temporary Modular Bridge													
9+110 - 9+113 (Offset 2.4m - 6.5m Rt)			12		17								
9+113 - 9+124 (Offset 3.2m - 6.5m Rt)	20				46								
9+110 - 9+113 (Offset 2.4m - 4.4m Lt)			6		8								
9+113 - 9+124 (Offset 2.4m - 4.4m Lt)	14				30								
9+160 - 9+166 (Offset 3.3m - 4.4m Lt)	8				17								
9+160 - 9+166 (Offset 2.3m - 4.5m Rt)	8				17								
9+166 - 9+169 (Offset 2.4m - 4.4m Lt)			6		8								
9+166 - 9+169 (Offset 2.3m - 4.4m Rt)			6		8								
West Detour Abutment					124								
East Detour Abutment					125								
Highway 101													
10+720 - 10+736 (Offset 6.7m - 12.3m Lt)	55				95								
10+720 - 10+737 (Offset 7.3m - 14.2m Rt)	55				100								
10+751 - 10+787 (Offset 6.5m - 11.1m Lt)	47				100								
10+752 - 10+761 (Offset 7.1m - 11.8m Rt)	22				40								
10+761 - 10+787 (Offset 7.3m - 9.7m Lt)					312		78						
10+788 (Offset 6.8m - 11.1m Lt)			7		14								
Sub - Totals Carried Forward:	229		37		1,061		78						
	(P)		(P)		(P)		(P)						
TOTALS													
UNIT	m3 (P)		m2 (P)		m2 (P)		m3 (P)						
ITEM No.	186		187		188		189						
Reference													

CHKD. _____

APPR. _____

DATE _____

Rip-Rap & Geotextile

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 55

Location and Position	*Rock Protection*		*Rip-Rap (R-10)*		*Geotextile (Class II) (Non-woven) (FOS 75-150 micron)*		*Gabion Structures Not Exceeding 2 m Height*						References
Sub - Totals Brought Forward:	229		37		1,061		78						
10+788 (Offset 6.8m - 19.3m Rt)			19		27								
10+789 - 10+810 (Offset 7.3m - 9.7m Lt)	22				302		63						
Sub - Totals Carried Forward:	251		56		1,390		141						
	(P)		(P)		(P)		(P)						
TOTALS	251		56		1,390		141						
UNIT	m3 (P)		m2 (P)		m2 (P)		m3 (P)						
ITEM No.	186		187		188		189						
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Rip-Rap & Geotextile

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 56

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Small Signs, Ground Mounted, New*	*Small Signs, Removal*		*Temporary Traffic Control Signs*		*Road Closing / Restriction Notice Signs (TC-64)*							References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chapleau													
Sideburned Lake Bridge													
Site No. 46X-0015/B0													
Throughout the Contract				100 %		4							
10+706 (G331)		1											
10+706 (G331(B))	1												
10+729 (Wa33R)		1											
10+760 (Wa33L)		1											
10+781 (G303)		1											
10+781 (G303)	1												
10+955 (N/A)		1											
10+955 (N/A)	1												
10+821 (G331)		1											
10+821 (G331(B))	1												
10+757 (Wa33R)		1											
10+726 (Wa33L)		1											
10+698 (N/A)		1											
10+698 (N/A)	1												
Sub - Totals Carried Forward:	5	9		100 %		4							
	(P)	(P)				(P)							
TOTALS	5	9		100 %		4							
UNIT	each (P)	each (P)		lump sum		each (P)							
ITEM No.	190	191		192		193							
Reference													

CHKD. _____

APPR. _____

DATE _____

Signs

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 57

Location and Position	*Pavement Marking Obliterating - By Abrasive Blasting*		*Pavement Marking [Solid Double] [Yellow, 10cm]*	*Pavement Marking [Solid] [White, 10cm]*		*Pavement Marking, Temporary [Solid] [White, 60cm]*		*Temporary Raised Transverse Rumble Strips*					References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chapleau													
Sideburned Lake Bridge													
Site No. 46X-0015/B0													
Stage 1													
10+278 - 10+ 292 Rt (Set of 8)								28					
10+492 - 10+502 Rt (Set of 8)								28					
10+549 - 10+910 Cl	724												
10+549 - 10+910 Lt	362												
10+549 - 10+910 Rt	361												
10+602 Rt (Stop Bar)						21							
10+908 Lt (Stop Bar)						21							
11+008 - 11+018 Lt (Set of 8)								28					
11+218 - 11+232 Lt (Set of 8)								28					
Final Road Construction													
10+549 - 10+910 Lt				362									
			724										
10+549 - 10+910 Cl													
				361									
10+549 - 10+910 Rt													
Sub - Totals Carried Forward:	1,447		724	723		42		112					
	(P)		724 (P)	723 (P)		(P)							
TOTALS	1,447			1,447		42		112					
UNIT	m (P)		m (P)	m (P)		m (P)		m					
ITEM No.	194			195		196		197					
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Pavement Marking

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 58

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Single Rail SBGR with Channel [OPSD 912.315]*	*Single Rail SBGR, TL-3 [OPSD 912.185]*	*Single Rail SBGR, TL-3, Adjacent to 2H:1V Slope [OPSD 912.186]*	*Single Rail SBGR, TL-3, Adjacent to Curb and Gutter [OPSD 912.188]*		*TCB, Freestanding, Category II*	*Energy Attenuator - Temporary, Narrow [TL-3]*	*Energy Attenuator - Relocation, Narrow [TL-3]*		*SBEAT System [50:1 Flare]*		*Temporary Construction Barrier, Relocation*	References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chapleau													
Sideburned Lake Bridge													
Site No. 46X-0015/B0													
Stage 1													
10+621 Rt (On Concrete Pad)							1						
10+621 - 10+893 Rt						272							
10+893 Rt (On Concrete Pad)							1						
Stage 2													
Temporary Detour													
9+018 Rt (On Concrete Pad)								1					
9+018 - 9+110 Rt												92	
9+019 Lt (On Concrete Pad)							1						
9+019 - 9+110 Lt												92	
9+169 TMB - 10+ 893 Rt Hwy 101							1						
10+893 Rt (On Concrete Pad)						32						88	
9+169 TMB - 10+884 Hwy 101 Rt						112							
Final Road Construction													
10+696 Rt										1			
10+696 - 10+700 (Offset 5.3m Rt)		4											
10+700 - 10+720 (Offset 5.5m - 6.0m Rt)	20												
10+720 Lt										1			
10+700 - 10+720 (Offset 5.7m - 6.1m Lt)	20												
10+761 - 10+781 (Offset 6.1m - 5.7m Rt)	20												
10+781 - 10+793 (Offset 5.7m Rt)				12									
10+793 - 10+813 Rt (Offset 5.7m - 5.0m Rt)			18										
10+813 Rt										1			
10+761 - 10+781 (Offset 6.1m - 6.0m Lt)	20												
Sub - Totals Carried Forward:	80	4	18	12		416	4	1		3		272	
	(P)	(P)	(P)	(P)		(P)	(P)	(P)		(P)		(P)	
TOTALS													
UNIT	m (P)	m (P)	m (P)	m (P)		m (P)	each (P)	each (P)		each (P)		m (P)	
ITEM No.	198	199	200	201		202	203	204		205		206	
Reference													

CHKD. _____

APPR. _____

DATE _____

Guide Rail and TCB

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 59

Location and Position	*Single Rail SBGR with Channel [OPSD 912.315]*	*Single Rail SBGR, TL-3 [OPSD 912.185]*	*Single Rail SBGR, TL-3, Adjacent to 2H:1V Slope [OPSD 912.186]*	*Single Rail SBGR, TL-3, Adjacent to Curb and Gutter [OPSD 912.188]*		*TCB, Freestanding, Category II*	*Energy Attenuator - Temporary, Narrow [TL-3]*	*Energy Attenuator - Relocation, Narrow [TL-3]*		*SBEAT System [50:1 Flare]*		*Temporary Construction Barrier, Relocation*	References
Sub - Totals Brought Forward:	80	4	18	12		416	4	1		3		272	
10+781 - 10+793 (Offset 6.0m Rt)				12									
10+793 - 10+845 (Offset 6.0m - 4.8m Lt)			52										
10+845 Lt										1			
Sub - Totals Carried Forward:	80	4	70	24		416	4	1		4		272	
	(P)	(P)	(P)	(P)		(P)	(P)	(P)		(P)		(P)	
TOTALS	80	4	70	24		416	4	1		4		272	
UNIT	m (P)	m (P)	m (P)	m (P)		m (P)	each (P)	each (P)		each (P)		m (P)	
ITEM No.	198	199	200	201		202	203	204		205		206	
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Guide Rail and TCB

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 60

MINISTRY OF TRANSPORTATION - ONTARIO

Location and Position	*Topsoil, Imported*		*Seed and Mulch Standard Roadside Mix Seeding*		*Light-Duty Silt Fence Barriers*		*Straw Bale Flow Check Dams*	*Bird Nesting Preventative Measures*					References
Sub - Totals Brought Forward:													
Highway 101													
Township of Chapleau													
Sideburned Lake Bridge													
Site No. 46X-0015/B0													
On Bridge Structure								100 %					
Throughout Contract Limits													
10+548 - 10+720 Rt	55		1,105										
10+810 - 10+932 Rt	38		752										
10+548 - 10+720 Lt	26		514										
10+616 (Offset 7.5m Rt)							1						
10+638 (Offset 6.8m Lt)							1						
10+669 (Offset 7.7m Rt)							1						
10+670 (Offset 7.5m Lt)							1						
10+691(Offset 8.4m Lt)							1						
10+715 (Offset 8.5m Lt)							1						
10+716 - 10+735 (Offset 20.0m - 6.7m Lt)					27								
10+722 - 10+734 (Offset 21.5m - 6.7m Rt)					22								
10+752 - 10+806 (Offset 6.5m - 11.9m Lt)					56								
10+755 - 10+798 (Offset 6.8m - 15.4m Rt)					49								
10+761 - 10+910 Rt	51		1,017										
Sub - Totals Carried Forward:	170		3,388		154		6	100 %					
			(P)		(P)		(P)						
TOTALS													
UNIT	m3		m2 (P)		m (P)		each (P)	lump sum					
ITEM No.	207		208		209		210	211					
Reference													

CHKD. _____

APPR. _____

DATE _____

Top Soil

QUANTITIES - MISCELLANEOUS 1

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 61

Location and Position	*Topsoil, Imported*		*Seed and Mulch Standard Roadside Mix Seeding*		*Light-Duty Silt Fence Barriers*		*Straw Bale Flow Check Dams*	*Bird Nesting Preventative Measures*					References
Sub - Totals Brought Forward:	170		3,388		154		6	100 %					
10+764 - 10+935 Lt	64		1,289										
10+773 (Offset 15.3 Rt)							1						
10+824 (Offset 7.9m Lt)							1						
10+843 (Offset 8.0m Rt)							1						
Sub - Totals Carried Forward:	234		4,677		154		9	100 %					
			(P)		(P)		(P)						
TOTALS	234		4,677		154		9	100 %					
UNIT	m3		m2 (P)		m (P)		each (P)	lump sum					
ITEM No.	207		208		209		210	211					
Reference													

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Top Soil

QUANTITIES - TEMPORARY INSTALLATION

W.P. No. 5144-10-00

Contract No. 2020-5153

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*	*#2 AWG, 2-Cond., NSF-2 Low Voltage Cables, Aerial with ACSR Neutral[Temporary]*	*#6 AWG Low Voltage Cables Aerial on Messenger Cable [Temporary]*	*12-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]*	*#6 AWG, Insulated, Ground Wire [Temporary]*	*#6 AWG, Bare, Ground Wire [Temporary]*	*#2/O AWG, Bare, Ground Wire [Temporary]*	*Ground Electrodes [Temporary] [Rods]*	*Supply Control Cabinet Assemblies [Temporary] Type 3, 1Ph 120/240 V, [OPSD 2441.000]*	*14 m, Class 3 Wood Poles Direct Buried in Rock [Temporary]*	*12.5 m, Class 4 Wood Poles Direct Buried in Rock [Temporary]*
Sub - Totals Brought Forward:																		
Highway 101																		
Township of Chapleau																		
Sideburned Lake Bridge						100 %												
Site No. 46X-0015/B0																		
Highway 101	P12	10.5		10+988										20	4	1		1
Highway 101	P13	8.9		10+942														1
Highway 101	P14	7.2		10+877.3														1
Highway 101	P15	9.7		10+877.3									1		1		1	
Highway 101	P16	11.3		10+810													1	
Highway 101	P17	12.7		10+720													1	
Highway 101	P18	13.4		10+680														1
Highway 101	P19	8.8		10+633.6									1		1			1
Highway 101	P20	6.9		10+633.6									1		1		1	
Highway 101	P21	3.2*	W	10+402														
Highway 101	P22	3.2*	E	11+108														
Highway 101				EP2-P12	12		12											
Highway 101				P12-P13	46			184			46	46						
Sub - Totals Carried Forward:						100 %	12	184	0	0	46	46	3	20	7	1	4	5
							(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)
TOTALS																		
UNIT						lump sum	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	each (P)	each (P)	each (P)	each (P)
ITEM No.						212	213	214	215		216		217		218	219		220

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 _____

MINISTRY OF TRANSPORTATION - ONTARIO

Temporary - Sideburned Lake Bridge

QUANTITIES - TEMPORARY INSTALLATION

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 63

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	5 m, Class - Wood Poles Direct Buried in Rock [Temporary] [1]	Guy Anchors (Temporary)	400W HPS Luminaire, 120 V Ballast c/w 200 W HPS Lamp [Temporary]	2.4 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires 3 Wires/Pole	Highway Type Signal Heads (Temporary) [2]	Riser Wires #14 AWG, 5/C	Flasher Beacons [Temporary] [Detail] [3]	Riser Wires #12 AWG, 2/C	Traffic Signal Controllers [Temporary] [OPSD 2510.010 & MTOD 2510.012] [4]	Non-Intrusive Detection System (Temporary)	Non-Intrusive Detectors	Non-Intrusive Detection Cables [5]
Sub - Totals Brought Forward:																		
Highway 101																		
Township of Chapleau																		
Sideburned Lake Bridge																1		
Site No. 46X-0015/B0																		
Highway 101	P12	10.5		10+988			1											
Highway 101	P13	8.9		10+942														
Highway 101	P14	7.2		10+877.3			2								1			
Highway 101	P15	9.7		10+877.3			2	1	1	5							1	23
Highway 101	P16	11.3		10+810														
Highway 101	P17	12.7		10+720														
Highway 101	P18	13.4		10+680			2											
Highway 101	P19	8.8		10+633.6			2											
Highway 101	P20	6.9		10+633.6			1	1	1	5							1	285
Highway 101	P21	3.2*	W	10+402		1							1					
Highway 101	P22	3.2*	E	11+108		1							1					
Highway 101				EP2-P12	12													
Highway 101				P12-P13	46													
Sub - Totals Carried Forward:						2	10	2	2	10	0	0.0	2	0	1	1	2	308
						(P)	(P)	(P)			(P)		(P)		(P)	(P)		
TOTALS																		
UNIT						each (P)	each (P)	each (P)	each (P)	m (P)	each (P)	m (P)	each (P)	m (P)	each (P)	each (P)	each	m
ITEM No.							221	222			223		224		225	226		

Remarks
1. 150mm x 150mm x 5m Pressure Treated Wood Post.
2. All 300mm Lenses in Diameter.
3. 300mm Flasher Beacon with Solar Powered System.
4. Traffic Signal Controller c/w UPS System.
5. Non-Intrusive Detection Cable as per Manufacturer's Recommendations.

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 _____

MINISTRY OF TRANSPORTATION - ONTARIO

Temporary - Sideburned Lake Bridge

QUANTITIES - TEMPORARY INSTALLATION

W.P. No. 5144-10-00

Contract No. 2020-5153

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*	*#2 AWG, 2-Cond., NSF-2 Low Voltage Cables, Aerial with ACSR Neutral[Temporary]*	*#6 AWG Low Voltage Cables Aerial on Messenger Cable [Temporary]*	*12-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]*	*#6 AWG, Insulated, Ground Wire [Temporary]*	*#6 AWG, Bare, Ground Wire [Temporary]*	*#2/O AWG, Bare, Ground Wire [Temporary]*	*Ground Electrodes [Temporary] [Rods]*	*Supply Control Cabinet Assemblies [Temporary] Type 3, 1Ph 120/240 V, [OPSD 2441.000]*	*14 m, Class 3 Wood Poles Direct Buried in Rock [Temporary]*	*12.5 m, Class 4 Wood Poles Direct Buried in Rock [Temporary]*
Sub - Totals Brought Forward:						100 %	12	184	0	0	46	46	3	20	7	1	4	5
Highway 101				P13-P14	65			260			65	65						
Highway 101			E	P14-P15	17			34	17	17	17							
Highway 101				P15-P16	68			136	68		68							
Highway 101				P16-P17	90			180	90		90							
Highway 101				P17-P18	40			80	40		40							
Highway 101				P18-P19	48			96	48		48							
Highway 101			W	P19-P20	16			32		16	16							
Sub - Totals Carried Forward:						100 %	12	1,002	263	33	390	111	3	20	7	1	4	5
										33	390	111	3	20			4	5
							(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)	(P)
TOTALS						100 %	12	1,002	263		423		134		7	1		11
UNIT						lump sum	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	m (P)	each (P)	each (P)	each (P)	each (P)
ITEM No.						212	213	214	215		216		217		218	219		220

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. 5144-10-00

Contract No. 2020-5153

Location	Structure/Equipment No.	Offset (m) to CL of Structure/Equip't (Note 1)	Signal Head Facing Direction	From - To OR Station	Distance (m)	5 m, Class - Wood Poles Direct Buried in Rock [Temporary] [1]	Guy Anchors (Temporary)	400W HPS Luminaire, 120 V Ballast c/w 200 W HPS Lamp [Temporary]	2.4 m Al. Tapered Elliptical Bracket	#12 AWG Riser Wires 3 Wires/Pole	Highway Type Signal Heads (Temporary) [2]	Riser Wires #14 AWG, 5/C	Flasher Beacons [Temporary] [Detail] [3]	Riser Wires #12 AWG, 2/C	Traffic Signal Controllers [Temporary] [OPSD 2510.010 & MTOD 2510.012] [4]	Non-Intrusive Detection System (Temporary)	Non-Intrusive Detectors	Non-Intrusive Detection Cables [5]
Sub - Totals Brought Forward:						2	10	2	2	10	0	0.0	2	0	1	1	2	308
Highway 101				P13-P14	65													
Highway 101			E	P14-P15	17						2	14.0						
Highway 101				P15-P16	68													
Highway 101				P16-P17	90													
Highway 101				P17-P18	40													
Highway 101				P18-P19	48													
Highway 101			W	P19-P20	16						2	18.0						
Sub - Totals Carried Forward:						2	10	2	2	10	4	32.0	2	0	1	1		
						2 (P)	(P)	2 (P)			(P)		2 (P)		(P)	(P)		
TOTALS							10	2			4		2		1	1	2	308
UNIT						each (P)	each (P)	each (P)	each (P)	m (P)	each (P)	m (P)	each (P)	m (P)	each (P)	each (P)	each	m
ITEM No.							221	222			223		224		225	226		

Remarks
1. 150mm x 150mm x 5m Pressure Treated Wood Post.
2. All 300mm Lenses in Diameter.
3. 300mm Flasher Beacon with Solar Powered System.
4. Traffic Signal Controller c/w UPS System.
5. Non-Intrusive Detection Cable as per Manufacturer's Recommendations.

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. 5144-10-00

Contract No. 2020-5153

SHEET 66

Sideburned Lake Bridge (46X-0015/B0) - I	*Removal of Bridge Structure*	*Removal of Bridge Footings*	*Protection System*	*Earth Excavation for Structure*	*Dewatering Structure Excavation*	*Tremie Concrete*	*Concrete in Footings*	*Concrete in Substructure [30]*	*Concrete in Deck*	*Concrete in Parapet Walls*	*Concrete in Approach Slabs*	*Reinforcing Steel Bar*	*Stainless Steel Reinforcing Bar*			References
LUMP SUM																
Highway 101																
Sideburned Lake Bridge	100 %	106	100 %	1,240	100 %	199	76.00	100 %	100 %	100 %	100 %	100 %	100 %			
Site No. 46X-0015/B0																
	100 %	106	100 %	1,240	100 %	199	76.00	100 %	100 %	100 %	100 %	100 %	100 %			
				(P)		(P)	(P)									
TOTALS	100 %	106	100 %	1,240	100 %	199	76.0	100 %	100 %	100 %	100 %	100 %	100 %			
UNIT	lump sum	m3	lump sum	m3 (P)	lump sum	m3 (P)	m3 (P)	lump sum	lump sum	lump sum	lump sum	lump sum	lump sum			
ITEM No.	227	228	229	230	231	232	233	234	235	236	237	238	239			

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Sideburned Lake Bridge (46X-0015/B0) - I

QUANTITIES - STRUCTURE

W.P. No. 5144-10-00

Contract No. 2020-5153

SHEET 67

Sideburned Lake Bridge (46X-0015/B0) - II	*Fabrication of Structural Steel*	*Delivery of Structural Steel*	*Erection of Structural Steel*	*Metal Traffic Barrier*	*Prestressed Concrete Girders NU 1200 Fabrication*	*Prestressed Concrete Girders NU 1200 Delivery*	*Prestressed Concrete Girders NU 1200 Installation*	*Bridge Deck Waterproofing*	*Form and Fill Grooves*	*Membrane Reinforcement*	*Temporary Modular Bridge*	*Bearings*	*Dowels Into Rock*	*Structure Monitoring*		References
LUMP SUM																
Highway 101																
Sideburned Lake Bridge	100 %	100 %	100 %	78	100 %	100 %	100 %	100 %	48.00	24.00	100 %	100 %	14	100 %		
Site No. 46X-0015/B0																
	100 %	100 %	100 %	78	100 %	100 %	100 %	100 %	48.00	24.00	100 %	100 %	14	100 %		
				(P)					(P)	(P)			(P)			
TOTALS	100 %	100 %	100 %	78	100 %	100 %	100 %	100 %	48.00	24.00	100 %	100 %	14	100 %		
UNIT	lump sum	lump sum	lump sum	m (P)	lump sum	lump sum	lump sum	lump sum	m (P)	m (P)	lump sum	lump sum	each (P)	lump sum		
ITEM No.	240	241	242	243	244	245	246	247	248	249	250	251	252	253		

Remarks:

CHKD. _____

APPR. _____

DATE _____

MINISTRY OF TRANSPORTATION - ONTARIO

Sideburned Lake Bridge (46X-0015/B0) - II