Road	Distances (m)	Classification
Bison Dr. E.	300	Local
Boardwalk	280	Local
Brick Way	160	Local
Church Rd. South	1000	Collector
Church Rd. East Selk	900	Local
Coronation Rd.	900	Local
Danko Dr.	650	Local
Debra Ave.	230	Local
Donald Rd.	180	Collector
Dunning Rd. 1	600	Collector
Dunning Rd. 2	1270	Collector
Dunning Rd. E.	1050	Collector
Ferry Rd.	2000	Collector
Frank St.	1300	Local
Garson Dr.	1000	Arterial
Grand Beach Rd. 2	1520	Arterial
Kirkness Rd.	6400	Arterial
Leah Ave.	515	Local
Marvin Garden Rd.	290	Local
Mckay Rd.	1030	Collector
Miller Creek Rd.	350	Local
Nanton Rd.	2200	Local
Nicholas St.	1000	Local
Old Henderson Hwy.	600	Local
Old River Rd.	1200	Local
Park Place	520	Local
Parkview Ave.	350	Local
Quarry Rd.	350	Local
Readgan Dr.	300	Local
Rebeck Rd.	6425	Collector
Recreation Centre	170	Local
Rockhaven Rd.	3100	Local
Roman Dr.	350	Local
Strathcona Rd.	1200	Local
Wachal Dr.	600	Local
TOTAL	**40290**	

Area	Distance (m)
Northern	3170
East Selkirk	6520
Southern	30600

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Bison Drive East - PTH 59 to 305m East

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 125-0400 to IMG 125-0407
	L =	305	m			Map Reference: AO8
	W =	8.0	m			
	A =	2,440	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	365	m2	$48.00	$17,520	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	365	m2	$3.00	$1,095	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	25	m2	$5.00	$125	
1.25	Pavement Line Markings	105	l.m.	$0.50	$53	
	Total Construction Cost				**$18,793**	
	15% Contingencies + 10% Engineering				$4,698	
	Total Projected Cost				**$23,491**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA surface, 0.3 gravel rounding
- Recent construction
- Good condition with area of localized repairs needed
- 15% full depth patching

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Boardwalk - Mckay Road to Park Place

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 111-0089
	L =	280	m			Map Reference: AS6,AT6
	W =	7.0	m			
	A =	1,960	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$0**	
	15% Contingencies + 10% Engineering				$0	
	Total Projected Cost				**$0**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA surface, very recent construction
- Very good condition
- Minor, sealed longitudinal cracking
- No repairs needed
- Rconstruction in 15+ years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Chip Seal
Brick Way - IXL Crescent to jog in Brick Way

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 123-0353 to IMG 123-0357
	L =	160	m			Map Reference: AN7-8
	W =	7.0	m			
	A =	1,120	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	1,120	m2	$6.50	$7,280	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$7,280**	
	15% Contingencies + 10% Engineering				$1,820	
	Total Projected Cost				**$9,100**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface over asphalt
- Fair condition
- 2-5m block cracking
- 1 pass chipseal
- Need for service? (very low traffic volume)

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Church Road S. - PR 204 east to the rail line

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 123-0304 to IMG 123-0319
	L =	1,000	m			Map Reference: AP7
	W =	6.8	m			
	A =	6,800	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)		m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	1,800	m3	$18.00	$32,400	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	4,760	m2	$1.00	$4,760	
1.20	Supply and Installation of Geotextile	4,760	m2	$3.00	$14,280	
1.21	Supply and Place Granular Sub-Base	3,350	tonnes	$30.00	$100,500	
1.22	Supply and Place Granular Base Course	800	tonnes	$36.00	$28,800	
1.23	Supply and Place Hot Mix Asphalt Concrete	1,150	tonnes	$105.00	$120,750	
1.24	Restoration of all Disturbed Areas	1,400	m2	$5.00	$7,000	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$308,490**	
	15% Contingencies + 10% Engineering				$77,123	
	Total Projected Cost				**$385,613**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, 0.3m gravel rounding
- Poor condition
- Recent 300m section of HMA repair
- Full depth HMA reconstruction of chipseal sections

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Church Road - Old Henderson Hwy. to Quarry Road

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 127-0512 to IMG127-0527
	L =	900	m			Map Reference: AI8
	W =	6.0	m			
	A =	5,400	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	2,100	m3	$18.00	$37,800	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	5,400	m2	$1.00	$5,400	
1.20	Supply and Installation of Geotextile	5,400	m2	$3.00	$16,200	
1.21	Supply and Place Granular Sub-Base	3,800	tonnes	$30.00	$114,000	
1.22	Supply and Place Granular Base Course	900	tonnes	$36.00	$32,400	
1.23	Supply and Place Hot Mix Asphalt Concrete	1,300	tonnes	$105.00	$136,500	
1.24	Restoration of all Disturbed Areas	1,800	m2	$5.00	$9,000	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$351,300**	
	15% Contingencies + 10% Engineering				$87,825	
	Total Projected Cost				**$439,125**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, 0.3m gravel rounding
- Poor condition at ends
- Major rutting
- Fair condition in middle
- Possible need for ditch grading on south side
- Full depth HMA reconstruction 2-4 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Coronation Road - PTH 59 to Lorne Hill Road

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 113-0164 to IMG 113-0169
	L =	900	m			Map Reference: AT8
	W =	6.0	m			
	A =	5,400	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	520	m2	$48.00	$24,960	east half
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	1,000	m3	$18.00	$18,000	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	2,600	m2	$1.00	$2,600	recon only
1.20	Supply and Installation of Geotextile	3,120	m2	$3.00	$9,360	full depth repairs and reconstruction
1.21	Supply and Place Granular Sub-Base	1,850	tonnes	$30.00	$55,500	west half
1.22	Supply and Place Granular Base Course	440	tonnes	$36.00	$15,840	west half
1.23	Supply and Place Hot Mix Asphalt Concrete	970	tonnes	$105.00	$101,850	Overaly and reconstruction
1.24	Restoration of all Disturbed Areas	1,000	m2	$5.00	$5,000	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$233,110**	
	15% Contingencies + 10% Engineering				$58,278	
	Total Projected Cost				**$291,388**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, fair to poor condition
- Severe rutting, very poor condition middle to west end
- HMA reconstruction on west half
- Localized repair and 0.05 HMA overlay on east half
- Full depth reconstruction in 2-4 years

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Danko Drive - from/to Old River Road

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Map Reference: AT6
	L =	650	m			
	W =	6.5	m			
	A =	4,225	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$0**	
	15% Contingencies + 10% Engineering				$0	
	Total Projected Cost				**$0**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA surface
- 2014 overlay
- Like new condition
- No repairs needed
- Overlay in 10-15 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Debra Avenue - Nicholas Street to Mckay Road

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 111-0057 to IMG 111-0065
	L =	230	m			Map Reference: AT6
	W =	7.0	m			
	A =	1,610	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	1,610	m2	$3.50	$5,635	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	80	m3	$10.00	$800	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	195	tonnes	$105.00	$20,475	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$26,910**	
	15% Contingencies + 10% Engineering				$6,728	
	Total Projected Cost				**$33,638**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA surface, good condition
- 0.3m rounding
- Numerous, sealed longitudinal cracks
- Mill 0.02m overaly 0.05m
- Full reconstruction in 10-15 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Donald Road - PR 204 east to the rail line

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 123-0297 to IMG 123-0303
	L =	180	m			Map Reference: AR7
	W =	7.0	m			
	A =	1,260	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	470	m3	$22.00	$10,340	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	1,260	m2	$1.00	$1,260	
1.20	Supply and Installation of Geotextile	1,260	m2	$3.00	$3,780	
1.21	Supply and Place Granular Sub-Base	900	tonnes	$30.00	$27,000	
1.22	Supply and Place Granular Base Course	220	tonnes	$36.00	$7,920	
1.23	Supply and Place Hot Mix Asphalt Concrete	300	tonnes	$105.00	$31,500	
1.24	Restoration of all Disturbed Areas	360	m2	$5.00	$1,800	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$83,600**	
	15% Contingencies + 10% Engineering				$20,900	
	Total Projected Cost				**$104,500**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, poor condition
- Severe rutting and failures throughout
- Full depth HMA reconstruction

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Chip Seal
Dunning Road - Henderson to Railway

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Map Reference: AS6-7
	L =	600	m			
	W =	7.0	m			
	A =	4,200	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	1,550	m3	$18.00	$27,900	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	4,130	m2	$1.00	$4,130	
1.20	Supply and Installation of Geotextile	4,130	m2	$3.00	$12,390	
1.21	Supply and Place Granular Sub-Base	2,910	tonnes	$30.00	$87,300	
1.22	Supply and Place Granular Base Course	700	tonnes	$36.00	$25,200	
1.23	Supply and Place Hot Mix Asphalt Concrete	1,000	tonnes	$105.00	$105,000	
1.24	Restoration of all Disturbed Areas	1,200	m2	$5.00	$6,000	
1.25	Pavement Line Markings		l.m.	$0.50	$0	
	Total Construction Cost				**$267,920**	
	15% Contingencies + 10% Engineering				$66,980	
	Total Projected Cost				**$334,900**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, poor condition
- Mutiple failed repairs
- Full depth HMA reconstruction

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Dunning Rd - Railway to Rebeck Rd.

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Map Reference: AS7
	L =	1,200	m			
	W =		m			
	A =	0	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	1,200	m2	$48.00	$57,600	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	600	m2	$5.00	$3,000	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	90	tonnes	$105.00	$9,450	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$70,050**	
	15% Contingencies + 10% Engineering				$17,513	
	Total Projected Cost				**$87,563**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Hot mix Asphalt surface, poor condition
- Multiple failed repairs between 2014 and 2016 repairs
- Full depth HMA patching required to complete full major rehabilitation
- Recommend widening existing road cross-section at Gunn's and Criste Creek to improve road side safety and embankment stability

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Dunning Road - Rebeck Road to PR 202

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 113-0145 to IMG 113-0148
	L =	1,270	m			Map Reference: AS7-8
	W =	7.0	m			
	A =	8,890	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	4,480	m2	$6.50	$29,120	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	4,450	m2	$18.70	$83,215	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	630	m2	$5.00	$3,150	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$115,485**	
	15% Contingencies + 10% Engineering				$28,871	
	Total Projected Cost				**$144,356**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

Chip seal surface, good condition
Sections of washboard in wheel path
Surface preparation and 2 pass chipseal, Rebeck to Novak
1 pass chipseal Novak to PR202

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Dunning Road East - PTH 59 to Lorne Hill Road

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Map Reference: AS8
	L =	1,050	m			
	W =	6.0	m			
	A =	6,300	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	6,300	m2	$8.50	$53,550	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$53,550**	
	15% Contingencies + 10% Engineering				$13,388	
	Total Projected Cost				**$66,938**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, recent construction
- Very good condition
- No immediate repairs needed
- Signs of the start of minor potholing
- Chip seal overlay in 5 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Ferry Road - PTH 212 to 2km north

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Map Reference: AH7
	L =	2,000	m			
	W =	7.0	m			
	A =	14,000	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	1,300	m2	$48.00	$62,400	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	14,000	m2	$6.50	$91,000	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$153,400**	
	15% Contingencies + 10% Engineering				$38,350	
	Total Projected Cost				**$191,750**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, good condition
- Minor patching
- One pass chip seal
- Repair within 2 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Frank Street - PR 212 to Harold Avenue

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Map Reference: AH8
	L =	1,300	m			
	W =	6.5	m			
	A =	8,450	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	3,120	m2	$8.50	$26,520	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	5,330	m2	$1.00	$5,330	
1.20	Supply and Installation of Geotextile	5,330	m2	$3.00	$15,990	
1.21	Supply and Place Granular Sub-Base	3,760	tonnes	$30.00	$112,800	
1.22	Supply and Place Granular Base Course	900	tonnes	$36.00	$32,400	
1.23	Supply and Place Hot Mix Asphalt Concrete	1,300	tonnes	$105.00	$136,500	
1.24	Restoration of all Disturbed Areas	1,650	m2	$5.00	$8,250	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$337,790**	
	15% Contingencies + 10% Engineering				$84,448	
	Total Projected Cost				**$422,238**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, poor to fair condition
- Minor rutting
- Two pass chip seal from PR 212 to first curve (480m)
- Full depth reconstruction from first curve to Harold Ave. (820m)
- Reconstruction in 1-3 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Garson Drive From Lotecki Lane To PTH 44

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 127-0473 to IMG 127-0490
	L =	1,000	m			Map Reference: AI12
	W =	7.2	m			
	A =	7,200	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	4,140	m2	$4.00	$16,560	575m of mill 0.02
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	390	tonnes	$36.00	$14,040	shoulder top up
1.23	Supply and Place Hot Mix Asphalt Concrete	600	tonnes	$105.00	$63,000	575m of fill 0.06
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	575	l.m.	$0.50	$288	
	Total Construction Cost				**$93,888**	
	15% Contingencies + 10% Engineering				$23,472	
	Total Projected Cost				**$117,359**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA surface, fair to good condition
- Fomer highway
- Gravel and asphalt shoulders; 575m of 3.0m gravel shoulders, 425m of 2.3m asp shoulders
- Transverse cracking 5-10m
- Block cracking 2-5m
- Mill 0.02
- Fill HMA 0.060
- Mill and fill 10+ years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Grand Beach Road - Parkview Avenue to PTH 12

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 125-0373 to IMG125-0393
	L =	1,520	m			Map Reference: E3
	W =	7.6	m			
	A =	11,552	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	4,100	m2	$3.50	$14,350	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	85	m3	$10.00	$850	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	600	tonnes	$105.00	$63,000	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	540	l.m.	$0.50	$270	
	Total Construction Cost				**$78,470**	
	15% Contingencies + 10% Engineering				$19,618	
	Total Projected Cost				**$98,088**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface over HMA
- 3.0m shoulders
- Former highway
- Regular 5-10m transverse cracking
- no obvious subgrade failures
- Mill 0.02m, fill 0.05 HMA on 540m section
- Full resurfacing in 10+ years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Chip Seal
Kirkness Road - from/to PTH 59 (crossing PTH 44)

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 123-0320 to IMG 123-0334
	L =	6,400	m			Map Reference: AL9,AM8,AN8,AO8,AP8
	W =	7.3	m			
	A =	46,720	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	2,350	m3	$10.00	$23,500	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	11,300	tonnes	$105.00	$1,186,500	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	1,100	l.m.	$0.50	$550	
	Total Construction Cost				**$1,210,550**	
	15% Contingencies + 10% Engineering				$302,638	
	Total Projected Cost				**$1,513,188**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal over HMA, fair to good condition
- Former highway (old #59)
- Regularly spaced transverse cracking every 4-5m
- Mill 0.05, HMA fill 0.100
- 2-5 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Leah Avenue - South of Wachal Drive to Mckay Road

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 110-0033 to IMG 110-0047
	L =	515	m			Map Reference: AT6
	W =	7.0	m			
	A =	3,605	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	1,600	m2	$48.00	$76,800	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	1,600	m2	$3.00	$4,800	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	700	tonnes	$105.00	$73,500	
1.24	Restoration of all Disturbed Areas	300	m2	$5.00	$1,500	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$156,600**	
	15% Contingencies + 10% Engineering				$39,150	
	Total Projected Cost				**$195,750**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface
- Multiple HMA repairs in fair to good condition
- South cul-de-sac up to Wachal St. in very poor condition
- North section in fair condition
- Full depth HMA patching with 0.08 HMA overlay
- Recconstruct south section within 3 years
- Reconstruct north in 5-8 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Marvin Garden Road - Mckay Road to Park Place

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 111-0090 to IMG 111--0091
	L =	290	m			Map Reference: AT7
	W =		m			
	A =	0	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	15	m2	$48.00	$720	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$720**	
	15% Contingencies + 10% Engineering				$180	
	Total Projected Cost				**$900**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA surface, very recent construction
- Very good condition
- One area of sideslope failure leading to one area of repair.
- Reconstruction in 15+ years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
McKay Road - PR 204 east to the rail line

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 111-0066 to IMG 111-0088
	L =	1,030	m			Map Reference: AT6-7
	W =	7.0	m			
	A =	7,210	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	3,280	m3	$18.00	$59,040	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	7,210	m2	$1.00	$7,210	
1.20	Supply and Installation of Geotextile	7,210	m2	$3.00	$21,630	
1.21	Supply and Place Granular Sub-Base	5,090	tonnes	$30.00	$152,700	
1.22	Supply and Place Granular Base Course	1,620	tonnes	$36.00	$58,320	
1.23	Supply and Place Hot Mix Asphalt Concrete	1,750	tonnes	$105.00	$183,750	
1.24	Restoration of all Disturbed Areas	2,100	m2	$5.00	$10,500	
1.25	Pavement Line Markings	1,030	l.m.	$0.50	$515	
	Total Construction Cost				**$493,665**	
	15% Contingencies + 10% Engineering				$123,416	
	Total Projected Cost				**$617,081**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, poor condition
- Major rutting througout
- Full depth reconstruction
- 3-5 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Miller Creek Road

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Map Reference: AT6
	L =	350	m			
	W =	6.5	m			
	A =	2,275	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$0**	
	15% Contingencies + 10% Engineering				$0	
	Total Projected Cost				**$0**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA overlay in 2014
- Very good condition
- Very minor reflective cracking
- No immediate repairs needed
- 10-15 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Nanton Road - PR 204 to 1.4km East

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 123-0350 to IMG 123-0352
	L =	1,400	m			Map Reference: AL7-8
	W =	7.5	m			
	A =	10,500	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$0**	
	15% Contingencies + 10% Engineering				$0	
	Total Projected Cost				**$0**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA surface, very good condition
- Very recent construction
- No immediate repairs needed
- Overlay in 10-15 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Nicholas Street

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 110-0001 to IMG 110-0032
	L =	1,000	m			Map Reference: AT6-7
	W =	7.0	m			
	A =	7,000	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	1,550	m2	$48.00	$74,400	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	1,550	m2	$3.00	$4,650	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	1,360	tonnes	$105.00	$142,800	
1.24	Restoration of all Disturbed Areas	1,000	m2	$5.00	$5,000	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$226,850**	
	15% Contingencies + 10% Engineering				$56,713	
	Total Projected Cost				**$283,563**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, overall fair condition
- South cul-de-sac in severe poor condition
- Full depth patching with 0.08 HMA overlay
- Renewal with sealcoat 3-5 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Chip Seal
Old Henderson Highway
- 240m South of Church Road to PR 212

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 127-0491 to IMG 127-0511
	L =	600	m			Map Reference: AH8-AI8
	W =	6.8	m			
	A =	4,080	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	170	m2	$48.00	$8,160	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	800	tonnes	$105.00	$84,000	0.08 overlay
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$92,160**	
	15% Contingencies + 10% Engineering				$23,040	
	Total Projected Cost				**$115,200**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, fair condition
- Section of recent HMA rehabilitation
- North end has wide paved parking shoulders
- Several areas of recent HMA repairs
- Full depth patching with 0.08 HMA overlay
- Rehabilitation in 2 to 5 years
- Reconstruction in 5-8 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Old River Road - from/to PR 204

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Map Reference: AS6-AT6
	L =	1,310	m			
	W =	6.5	m			
	A =	8,515	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$0**	
	15% Contingencies + 10% Engineering				$0	
	Total Projected Cost				**$0**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA surface, very good condition
- 2014 overlay
- No immediate repairs needed
- Renewal 10 to 15 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Chip Seal
Parkview Avenue
- Grand Beach Road to 350m West

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 125-0361 to IMG 125-0372
	L =	350	m			Map Reference: E3
	W =	7.0	m			
	A =	2,450	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	920	m3	$18.00	$16,560	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	2,450	m2	$1.00	$2,450	
1.20	Supply and Installation of Geotextile	2,450	m2	$3.00	$7,350	
1.21	Supply and Place Granular Sub-Base	1,730	tonnes	$30.00	$51,900	
1.22	Supply and Place Granular Base Course	410	tonnes	$36.00	$14,760	
1.23	Supply and Place Hot Mix Asphalt Concrete	600	tonnes	$105.00	$63,000	
1.24	Restoration of all Disturbed Areas	700	m2	$5.00	$3,500	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$159,520**	
	15% Contingencies + 10% Engineering				$39,880	
	Total Projected Cost				**$199,400**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal with section of recent HMA overlay
- Chip seal section in very poor condition
- HMA overlay already showing significant signs of deterioration
- Full depth reconstruction

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Park Place

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Map Reference: AS6
	L =	520	m			
	W =	7.0	m			
	A =	3,640	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	550	m2	$48.00	$26,400	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$26,400**	
	15% Contingencies + 10% Engineering				$6,600	
	Total Projected Cost				**$33,000**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal Surface, recent construction
- Fair condition
- Full depth HMA repairs (15%)
- 2 pass chipseal 2 to 3 years
- Reconstruction 10 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Quarry Road - 50m South of Church Road to PR 212

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 125-0408 to IMG 125-0414
	L =	350	m			Map Reference: AH8,AI8
	W =	8.2	m			
	A =	2,870	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	500	m2	$48.00	$24,000	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	560	tonnes	$105.00	$58,800	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$82,800**	
	15% Contingencies + 10% Engineering				$20,700	
	Total Projected Cost				**$103,500**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, fair condition
- Several recent HMA repairs
- Road subject to school traffic
- Full depth repairs, 0.08 HMA overlay
- Reconstruction in 5 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Readgan Drive - PR 204 to 300m West

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 123-0293 to IMG 123-0296
	L =	300	m			Map Reference: AS6
	W =	6.0	m			
	A =	1,800	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$0**	
	15% Contingencies + 10% Engineering				$0	
	Total Projected Cost				**$0**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA surface, recent overlay
- 0.5 gravel rounding
- Very good condition
- Mild longitudinal cracking
- No immediate repairs required
- 10 to 15 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Rebeck Road - PR 202 to Ludwick Road

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 112-0142 to IMG 112-0144
	L =	1,975	m			Map Reference: AP8,AQ8
	W =	7.0	m			
	A =	13,825	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	300	m2	$48.00	$14,400	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$14,400**	
	15% Contingencies + 10% Engineering				$3,600	
	Total Projected Cost				**$18,000**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA good condition
- Existing HMA patching in fair to good condition
- Sealed Longitudinal cracking
- Repair with full depth patching
- Rehabilitation 5-10 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Rebeck Road - Ludwick to Donald

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 112-0136 to IMG 112-0142
	L =	1,450	m			Map Reference: AQ8,AR8
	W =	7.0	m			
	A =	10,150	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	1,000	m2	$48.00	$48,000	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	10,150	m2	$5.00	$50,750	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	2,450	tonnes	$105.00	$257,250	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$356,000**	
	15% Contingencies + 10% Engineering				$89,000	
	Total Projected Cost				**$445,000**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA surface, old construction
- Poor to fair condition
- Severe ravelling throughout
- Area of needed repair 10%
- Full depth patching, remove asphalt and overlay 0.1 HMA
- Major rehabilitation 5-8 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Rebeck Road - Donald to 400m North of Dunning

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 112-0129 to IMG 112-0135
	L =	1,100	m			Map Reference: AR8,AS7
	W =	7.0	m			
	A =	7,700	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	4,000	m2	$48.00	$192,000	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	1,500	tonnes	$105.00	$157,500	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$349,500**	
	15% Contingencies + 10% Engineering				$87,375	
	Total Projected Cost				**$436,875**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, poor condition
- Major areas of deterioration needing repair (50%)
- Full depth patching and 0.08 HMA overlay
- 2 pass chip seal or full depth HMA reconstruction 2-4 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Rebeck Road - 400m North of Dunning to Dunning

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 112-0127 to IMG 112-0129
	L =	400	m			Map Reference: AS7
	W =	7.0	m			
	A =	2,800	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	2,800	m2	$3.50	$9,800	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	60	m3	$10.00	$600	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	410	tonnes	$105.00	$43,050	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$53,450**	
	15% Contingencies + 10% Engineering				$13,363	
	Total Projected Cost				**$66,813**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA surface, recent construction
- Good condition
- Sealed Longitudinal cracking
- Mill 0.02, fill HMA 0.06
- Rehabilitation 5 to 10 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Rebeck Road - Dunning to Mckay

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 112-0124
	L =	900	m			Map Reference: AS7,AT7
	W =	8.0	m			
	A =	7,200	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$0**	
	15% Contingencies + 10% Engineering				$0	
	Total Projected Cost				**$0**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- HMA surface, very recent construction
- 0.5m gravel shoulder
- Very good condition
- No immediate repairs needed
- Resurfacing 10 to 15 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Rebeck Road - Mckay to Coronation

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 112-0122 to IMG 112-0124
	L =	600	m			Map Reference: AT7
	W =	7.4	m			
	A =	4,440	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	50	m2	$48.00	$2,400	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	4,400	m2	$8.50	$37,400	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$39,800**	
	15% Contingencies + 10% Engineering				$9,950	
	Total Projected Cost				**$49,750**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal on HMA, fair condition
- Embankment showing signs of distress
- Minor full depth patching and 2 pass chipseal
- Reconstruction in 5 to 8 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
REC Centre - PR 212 to Strathcona Road

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Map Reference: AH8,AI8
	L =	170	m			
	W =	9.0	m			
	A =	1,530	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$0**	
	15% Contingencies + 10% Engineering				$0	
	Total Projected Cost				**$0**	

Notes:

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- HMA surface, very recent construction
- Very good condition
- No immediate repairs required
- 10-15 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Hot Mix Asphalt
Rockhaven Road - PTH 44 to PR 204

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 123-0335 to IMG 123-0349
	L =	3,100	m			Map Reference: AN7-8
	W =	6.0	m			
	A =	18,600	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	3,000	m2	$48.00	$144,000	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	3,000	m2	$3.00	$9,000	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$153,000**	
	15% Contingencies + 10% Engineering				$38,250	
	Total Projected Cost				**$191,250**	

Notes:

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- Asphalt surface, recent construction
- Good condition
- Areas of substantial HMA repair on north side, middle to west end
- Repair areas showing signs of distress (sealed longitudinal cracking)
- Full depth patching
- Overlay 10 to 15 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment and 10-Year Capital Plan

Type of Road - Chip Seal
Roman Drive - PR 204 to 350m West

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 123-0288 to IMG 123-0292
	L =	350	m			Map Reference: AS6
	W =	6.5	m			
	A =	2,282	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	0	m2	$48.00	$0	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	860	m3	$18.00	$15,480	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	2,300	m2	$1.00	$2,300	
1.20	Supply and Installation of Geotextile	2,300	m2	$3.00	$6,900	
1.21	Supply and Place Granular Sub-Base	1,350	tonnes	$30.00	$40,500	
1.22	Supply and Place Granular Base Course	520	tonnes	$36.00	$18,720	
1.23	Supply and Place Hot Mix Asphalt Concrete	280	tonnes	$105.00	$29,400	
1.24	Restoration of all Disturbed Areas	700	m2	$5.00	$3,500	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$116,800**	
	15% Contingencies + 10% Engineering				$29,200	
	Total Projected Cost				**$146,000**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- Chip seal surface, poor condition
- Multiple,HMA repairs of varying ages, with some failures
- All roadway surrounding previous repairs has failed
- Full depth HMA reconstruction

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Chip Seal
Strathcona Road - Old Henderson
Highway to 170m East of Quarry Road

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 125-0415 to IMG 125-0427
	L =	1,200	m			Map Reference: AI8
	W =	6.8	m			
	A =	8,160	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	2,580	m2	$48.00	$123,840	sections of reconstruction
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	0	m2	$8.50	$0	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	3,540	m2	$3.50	$12,390	Mill 0.020
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	70	m3	$10.00	$700	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	2,580	m2	$3.00	$7,740	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	890	tonnes	$105.00	$93,450	0.06 overlay (entire road)
1.24	Restoration of all Disturbed Areas	760	m2	$5.00	$3,800	1.0m both sides adjacent to recon sections
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$241,920**	
	15% Contingencies + 10% Engineering				$60,480	
	Total Projected Cost				**$302,400**	

Notes:

The estimate of construction costs is provided for budgetary purposes only. This is not to be interpreted as a guarantee by Stantec of the actual project cost. The final cost of the project will be determined by the tendering and construction process.

- New HMA section east of Quarry Rd. in very good condition
- Chip seal surface over HMA, west of Quarry road, fair condition
- Multiple previous HMA patching containing failures
- Repair with full depth patching and milling 0.02 with 0.06 HMA overlay
- Rehabilitation in 5 to 8 years

17-Mar-17

Rural Municipality of St. Clements
2016 Road Surface Infrastructure Assessment
and 10-Year Capital Plan

Type of Road - Chip Seal
Wachal Drive - Leah Avenue to Nicholas Street

Class "C" Opinion of Probable Cost

		Quantity	Unit	Unit Price	Cost	Comments
	Unit Price for Work Items					
				ID#		Photos IMG 110-0048 to IMG 110-0056
	L =	600	m			Map Reference: AT6-7
	W =	7.0	m			
	A =	4,200	m2			
1.1	Full-Depth Patching (50 asphalt, 100 BC, 250 SB)	530	m2	$48.00	$25,440	
1.2	Full-Depth Patching (2 pass chip seal, 100 BC, 250 SB)	0	m2	$38.00	$0	
1.3	Preparation of Existing Granular Surface	0	m2	$2.00	$0	
1.4	Supply and Installation of 1-pass Chip Seal	0	m2	$6.50	$0	
1.5	Supply and Installation of 2-pass Chip Seal	4,200	m2	$8.50	$35,700	
1.6	Scarify, Regrade, Compaction, 150 base course, EN1, 2-pass Chip Seal	0	m2	$18.70	$0	
1.7	Mill Existing Asphalt - 0-50mm (<1,000 s.m.)	0	m2	$4.00	$0	
1.8	Mill Existing Asphalt - 0-50mm (>1,000 s.m.)	0	m2	$3.50	$0	
1.9	Mill Existing Asphalt - 50-100mm (<1,000 s.m.)	0	m2	$5.00	$0	
1.10	Mill Existing Asphalt - 50-100mm (>1,000 s.m.)	0	m2	$4.50	$0	
1.11	Disposal of Existing Millings	0	m3	$10.00	$0	
1.12	Remove Existing Asphalt (<1000 m2)	0	m2	$6.50	$0	
1.13	Remove Existing Asphalt (>1000 m2)	0	m2	$5.00	$0	
1.14	Pulverize Existing Asphalt	0	m2	$2.00	$0	
1.15	Regrade and Compaction of Pulverized Material	0	m2	$2.75	$0	
1.16	Excavation and Removal to Off-Site (<500 m3)	0	m3	$22.00	$0	
1.17	Excavation and Removal to Off-Site (>500 m3)	0	m3	$18.00	$0	
1.18	Common Excavation	0	m3	$15.00	$0	
1.19	Compaction of Sub-Grade	0	m2	$1.00	$0	
1.20	Supply and Installation of Geotextile	0	m2	$3.00	$0	
1.21	Supply and Place Granular Sub-Base	0	tonnes	$30.00	$0	
1.22	Supply and Place Granular Base Course	0	tonnes	$36.00	$0	
1.23	Supply and Place Hot Mix Asphalt Concrete	0	tonnes	$105.00	$0	
1.24	Restoration of all Disturbed Areas	0	m2	$5.00	$0	
1.25	Pavement Line Markings	0	l.m.	$0.50	$0	
	Total Construction Cost				**$61,140**	
	15% Contingencies + 10% Engineering				$15,285	
	Total Projected Cost				**$76,425**	

Notes:

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- Chip seal surface, fair to good condition
- Limited areas of previous repairs
- Full depth repairs with 2 pass chipseal
- Patching and chipseal surfacing 3 to 5 years