

Class "D" - Cost Estimate



TOWN OF VERMILION AIRPORT - REBUILD OPTION

10/4/2023

Item	Description	Unit	Estimated Rate	Estimate Quantity	Estimated Class Cost
CONSTRUCTION COSTS					
Section 1.0 - Runway Rebuild					
1.1	Mobilization	lump sum	9%	1	\$ 372,010.50
1.2	Full Depth Asphalt Removal	m ²	\$ 18.00	25000	\$ 450,000.00
1.3	Granular Base Course Removals	m ³	\$ 25.00	25000	\$ 625,000.00
1.4	Common Excavation - Embankment (Assuming 500mm depth)	m ³	\$ 20.00	620	\$ 12,400.00
1.6	20mm Granular Base Course - Supply and Install (350mm thickness)	m ²	\$ 47.00	25000	\$ 1,175,000.00
1.7	Asphalt Concrete Pavement - Supply and Place (135mm thickness)	m ²	\$ 57.00	25000	\$ 1,425,000.00
1.8	Pavement Markings - Supply & Install (Runway)	lump sum	1.00	50000	\$ 50,000.00
Section 1.0 - Runway Rebuild Subtotal					\$ 4,109,410.50
Section 2.0 - Taxiway Repair					
2.1	Full Depth Asphalt Removal c/w Sawcutting (Heaved Areas)	m ²	\$ 18.00	200	\$ 3,600.00
2.2	Granular Base Course Removals (Heaved Areas)	m ³	\$ 25.00	40	\$ 1,000.00
2.3	Unsuitable Clay Sub-Grade Removals (400mm Heaved Areas)	m ³	\$ 25.00	80	\$ 2,000.00
2.4	Woven Geo-textile - Supply and Install (Heaved Areas)	m ²	\$ 11.00	200	\$ 2,200.00
2.5	20mm Granular Base Course - Supply and Install (600mm thickness - Heaved Areas)	m ²	\$ 65.00	200	\$ 13,000.00
2.6	Asphalt Concrete Pavement - Supply and Place (150mm thickness Heaved Areas)	m ²	\$ 75.00	200	\$ 15,000.00
Section 2.0 - Taxiway Repair Subtotal					\$ 36,800.00
Section 3.0 - Taxiway Overlay					
3.1	Asphalt Concrete Pavement Milling (40mm depth - Taxiway)	m ²	\$ 18.00	2300	\$ 41,400.00
3.2	Asphalt Concrete Pavement Overlay - Supply & Install (60mm Taxiway)	m ²	\$ 25.00	2300	\$ 57,500.00
3.3	Pavement Markings - Supply & Install (Taxiway)	lump sum	1.00	1500	\$ 1,500.00
Section 3.0 - Taxiway Overlay Subtotal					\$ 100,400.00
Section 4.0 - Apron Overlay					
4.1	Asphalt Concrete Pavement Milling (40mm depth - Apron)	m ²	\$ 18.00	5950	\$ 107,100.00
4.2	Asphalt Concrete Pavement Overlay - Supply & Install (60mm Apron)	m ²	\$ 25.00	5950	\$ 148,750.00
4.3	Pavement Markings - Supply & Install (Apron)	lump sum	1.00	3000	\$ 3,000.00
Section 4.0 - Apron Overlay Subtotal					\$ 258,850.00
CONSTRUCTION COSTS SUBTOTAL				\$	4,505,460.50
CONTINGENCIES				30%	\$ 1,351,640.00
CONSTRUCTION COSTS TOTAL				\$	5,857,100.50

Class "D" - Cost Estimate



TOWN OF VERMILION AIRPORT - REHAABILITATION OPTION

8/21/2023

Item	Description	Unit	Estimated Rate	Estimate Quantity	Estimated Class Cost
CONSTRUCTION COSTS					
Section 1.0 - Runway Repair					
1.1	Mobilization	lump sum	9%	1	\$ 183,518.10
1.2	Full Depth Asphalt Removal c/w Sawcutting (Heaved Areas)	m ²	\$ 30.00	1540	\$ 46,200.00
1.3	Granular Base Course Removals (Heaved Areas)	m ³	\$ 25.00	310	\$ 7,750.00
1.4	Unsuitable Clay Sub-Grade Removals (400mm depth - Heaved Areas)	m ³	\$ 25.00	620	\$ 15,500.00
1.5	Woven Geo-textile - Supply and Install (Heaved Areas)	m ³	\$ 11.00	1540	\$ 16,940.00
1.6	20mm Granular Base Course - Supply and Install (600mm thickness - Heaved Areas)	m ²	\$ 130.00	925	\$ 120,250.00
1.7	Asphalt Concrete Pavement - Supply and Place (150mm thickness - Heaved Areas)	m ²	\$ 75.00	1540	\$ 115,500.00
Section 1.0 - Runway Repair Subtotal					\$ 505,658.10
Section 2.0 - Runway Overlay					
2.1	Asphalt Concrete Pavement Milling (40mm depth - Runway)	m ²	\$ 27.50	23400	\$ 643,500.00
2.2	Asphalt Concrete Pavement Overlay - Supply & Install (60mm Runway)	m ²	\$ 25.00	25000	\$ 625,000.00
2.3	Pavement Markings - Supply & Install (Runway)	lump sum	1.00	50000	\$ 50,000.00
Section 2.0 - Runway Overlay Subtotal					\$ 1,318,500.00
Section 3.0 - Taxiway Repair					
3.1	Full Depth Asphalt Removal c/w Sawcutting (Heaved Areas)	m ²	\$ 30.00	200	\$ 6,000.00
3.2	Granular Base Course Removals (Heaved Areas)	m ³	\$ 25.00	40	\$ 1,000.00
3.3	Unsuitable Clay Sub-Grade Removals (400mm depth - Heaved Areas)	m ³	\$ 25.00	80	\$ 2,000.00
3.4	Woven Geo-textile - Supply and Install (Heaved Areas)	m ³	\$ 11.00	200	\$ 2,200.00
3.5	20mm Granular Base Course - Supply and Install (600mm thickness - Heaved Areas)	m ²	\$ 65.00	200	\$ 13,000.00
3.6	Asphalt Concrete Pavement - Supply and Place (150mm thickness - Heaved Areas)	m ²	\$ 75.00	200	\$ 15,000.00
Section 3.0 - Taxiway Repair Subtotal					\$ 39,200.00
Section 4.0 - Taxiway Overlay					
4.1	Asphalt Concrete Pavement Milling (40mm depth - Taxiway)	m ²	\$ 18.00	2300	\$ 41,400.00
4.2	Asphalt Concrete Pavement Overlay - Supply & Install (60mm Taxiway)	m ²	\$ 25.00	2300	\$ 57,500.00
4.3	Pavement Markings - Supply & Install (Taxiway)	lump sum	1.00	1500	\$ 1,500.00
Section 4.0 - Taxiway Overlay Subtotal					\$ 100,400.00
Section 5.0 - Apron Overlay					
5.1	Asphalt Concrete Pavement Milling (40mm depth - Apron)	m ²	\$ 18.00	5950	\$ 107,100.00
5.2	Asphalt Concrete Pavement Overlay - Supply & Install (60mm Apron)	m ²	\$ 25.00	5950	\$ 148,750.00
5.3	Pavement Markings - Supply & Install (Apron)	lump sum	1.00	3000	\$ 3,000.00
Section 5.0 - Apron Overlay Subtotal					\$ 258,850.00
CONSTRUCTION COSTS SUBTOTAL					\$ 2,222,608.10
CONTINGENCIES 30%					\$ 666,780.00
CONSTRUCTION COSTS TOTAL					\$ 2,889,388.10