

Bill of Quantities

PAY ITEM	DESCRIPTION	UNIT					
SUMMARY TABLE							
00	PRELIMINARIES						
100	PROVISION FOR TRAFFIC						
200	EARTHWORKS						
303	UNDERGROUND SERVICES						
304	SEWERAGE						
305	STORMWATER DRAINAGE						
306	SUBSOIL DRAINAGE						
307	CONDUITS						
308	WATER SUPPLY						
400	FLEXIBLE PAVEMENT CONSTRUCTION						
600	CONCRETE KERBS FOOTPATHS AND MINOR WORKS						
800	INCIDENTAL WORKS						
900	LANDSCAPE						
1000	ROAD SIGNS						
1100	PAVEMENT MARKINGS						
1300	TRAFFIC SIGNALS						
1400	STREET LIGHTING						
	SUB-TOTAL						
	CONTINGENCY						
	GST (10%)						
	TOTAL (Inc GST)						
	TOTAL (excl. GST)						
00 PRELIMINARIES							
01P1	Site Establishment	Lump Sum					
01P2	Superintendent's Site Facilities	Lump Sum					
01P3	Day Works	PS					
01P4	Temporary Environmental Protection Works	Lump Sum					
01P5	Unexpected Finds - contamination	PS					
01P6	Work-As-Executed Drawings and Asset Surveys	Lump Sum					
01P8	Survey Control	Lump Sum					
01P12	Compliance and Audit Testing	PS					
01P14	<u>Public Utility Adjustments</u>						
01P14.1	Relocation (including installation of new conduits required by Telstra) of Telstra assets - Works by Telstra	PS					
	1x100 mm						
	2x100 mm						
	4x100 mm						
01P14.2	Relocation of TransACT assets - Works by TransACT	PS					
01P14.1	Relocation/undergrounding of HV cable - Works by ActewAGL	PS					
01P14.2	Relocation of NBN assets - Works by NBN	PS					
01P15	Project Sign Boards	Each					
01P18	Arborist (Arboculturist)	PS					
01P19	Coordination with other contracts	Lump Sum					
	Communication Management	Lump Sum					
01P28	Landscape Management Plan	PS					
SUB-TOTAL TO SUMMARY TABLE							
100 PROVISION FOR TRAFFIC							
101P1	Provision for Traffic	Lump Sum					
101P3	Accesses to properties	Lump sum					
SUB-TOTAL TO SUMMARY TABLE							

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200 EARTHWORKS									
204P1	Clearing and Grubbing	Ha							
204P2	Tree Removal	Each							
205P1	Removal and stockpiling of topsoil	m ³							
205P2	General earthworks	m ³							
205P3	Disposal of spoil material off-site	m ³							
205P4	Unsuitable material (PQ)	m ³							
206P1	<u>Imported fill</u>								\$0
206P2	Replacement of unsuitable with general fill (PQ)	m ³							
207P4	Preparation of cut and fill subgrade	m2							
SUB-TOTAL TO SUMMARY TABLE									
303 UNDERGROUND SERVICES									
303P1	<u>Backfilling under roads, paths and driveways</u>								
303P1.1	Shared Trench	m ³							
303P1.2	Stormwater	m ³							
303P2	<u>Trenching for Service Authorities</u>								
303P2.4	Gas only	m							
303P3	Removal of unsuitable material from trenches (PQ)	m ³							
303P4	<u>Existing Services Location</u>								
303P4.3	Gas	Lump sum							
303P4.4	Electricity	Lump sum							
303P4.5	Water Supply	Lump sum							
303P4.6	Telecommunication	Lump sum							
SUB-TOTAL TO SUMMARY TABLE									
304 SEWERAGE									
304P1	<u>Sewer Pipes (VC)</u>								
	304P1.4.4.100.1	m							
	304P1.4.4.150.1	m							
	304P1.4.4.375.1	m							
304P2	<u>Sewer Pipe Fittings</u>								
304P2.4	100 x 375mm slope junction	Each							
304P2.9	150 x 375mm slope junction	Each							
304P3	<u>Flexible joints</u>								
	304P3.150	Each							
	304P3.375	Each							
304P9	<u>End Caps</u>								
304P9.4	375mm dia. Main-temporary uPVC end cap	Each							
SUB-TOTAL TO SUMMARY TABLE									

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305 STORMWATER DRAINAGE							
305P1	<u>Stormwater Pipes</u>						
	305P1.1.2.300.1	m					
	305P1.1.2.375.1	m					
	305P1.1.2.450.1	m					
	305P1.1.2.525.1	m					
	305P1.1.2.675.1	m					
	305P1.1.2.750.1	m					
305P7	<u>1050mm Diameter Manholes</u>						
305P7.1	Standard 1050mm dia. cast insitu manholes	Each					
305P9	<u>Standard Stormwater Sumps</u>						
305P9.1	Standard Single Type R Sump	Each					
305P9.3	Extra over Pay Item 305P9.1 for single sided plantation type inlet structure including concrete apron	Each					
305P9.4	Extra over Pay Item 305P9.1 for double sided plantation type inlet structure including concrete aprons	Each					
305P10	<u>Grated Inlet Sump</u>						
305P10.1	Standard RMS Depressed Median Gully Pit (refer MD.R11.B30.A.1)	Each					
305P13	<u>Headwall</u>						
	305P13.P.300.1 - INCLUDE STONE PITCHING AND PD1 HANDRAIL	Each					
	305P13.P.525.1 - INCLUDE STONE PITCHING AND PD1 HANDRAIL	Each					
	305P13.P.675.1 - INCLUDE STONE PITCHING AND PD1 HANDRAIL	Each					
	305P13.P.750.1 - INCLUDE STONE PITCHING AND PD1 HANDRAIL	Each					
305P15	CCTV Camera Testing	Item					
305P16	Demolish Existing Structures - sumps and manholes	Each					
305P20	<u>Removal of existing stormwater pipes</u>						
305P20.1	300mm diameter	m					
305P23	<u>Bio-Retention Trenches</u>						
305P23.1	5m Bio-retention trench	Each					
305P23.2	Testing and development of filter material (PS)	Lump Sum					
SUB-TOTAL TO SUMMARY TABLE							
306 SUBSOIL DRAINAGE							
306P1	<u>Subsoil Drains</u>	m					
306P3	<u>Subsoil Drain Risers</u>						
306P3.1	High-end Risers	Each					
306P4	<u>Subsoil Outlets</u>						
306P4.1	Outlet to structure	Each					
SUB-TOTAL TO SUMMARY TABLE							

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307 CONDUITS									
307P2	Telecommunications Conduits								
307P2.1	100mm diameter	m							
307P3.9	6 x 150mm diameter	m							
307P3.10	1 x 63mm diameter	m							
307P4	End Caps								
307P4.2	100mm diameter	Each							
307P4.3	150mm diameter	Each							
307P4.4	63mm diameter	Each							
307P5	Electrical Pits	PS							
307P6	Telecommunications Pits								
307P6.1	Telstra pit (ACO Cablemate Type 52)	Each							
307P6.2	Telstra pit (Large)	Each							
307P6.3	TransACT pit	Each							
SUB-TOTAL TO SUMMARY TABLE									
308 WATER SUPPLY									
308P1	Water Pipe								
	Cast Iron								
	308P1.2.225.2.S	m							
	308P1.2.450.2.S	m							
	308P1.2.375.2.S	m							
	308P1.2.600.2.S	m							
308P5	Works by Water Authority	Each							
SUB-TOTAL TO SUMMARY TABLE									
400 FLEXIBLE PAVEMENT CONSTRUCTION									
403P1	Base Material								
403P1.6	Cycleways	m ³							
403P1.7	Unsealed Road Base	m ³							
403P2	Sub Base Material								
403P2.6	Cycleways	m ³							
403P2.7	DGS20	m ³							
403P2.8	DGB20	m ³							
403P3	Select Material								
403P3.3	CBR 10	m ³							
403P4	Match to Existing	m							
404P1	Supply and Spray Primer/Binder	Litre							
404P1.1	AMC00	Litre							
404P1.2	AMC0	Litre							
405P3	Dense Grade Asphalt (AC) in Intermediate Course								
405P3.14	AC-HD 20mm NAS	tonne							
405P3.15	AC-HD 20mm NAS - HBIT	tonne							
405P4	Dense Grade Asphalt (AC) in Wearing Course								
405P4.14	AC-HD 14mm NAS - (A15E)	tonne							
405P11	Fine gap graded asphalt (FGG) in wearing course								
405P11.3	PGG-R	tonne							
406P1	Granular Pavement - Option 1	Lump Sum							
407P1	Removal of Existing Pavements	m ²							
2B.14	Subgrade Prep								
2B.14.1	Subgrade Design >5% CBR	m ²							
SUB-TOTAL TO SUMMARY TABLE									

Bill of Quantities

600 CONCRETE KERBS, FOOTPATHS AND MINOR WORKS									
603P1	Kerb Works								
603P1.1	Mountable Kerb - Type MK	m							
603P1.2	Mountable Kerb and Gutter - Type MKG	m							
603P1.3	Kerb Only - Type KO	m							
603P1.4	Kerb and Gutter - Type KG	m							
603P1.9	Kerb Type SO	m							
603P1.10	Extra over rate for transitions between kerb types	m							
603P1.31	Pram Crossing	Each							
603P1.41	Removal of existing Kerbing	m							
603P2	Footpaths, Driveways and General Paving Works								
603P2.1	75mm Thick Concrete Paving	m ²							\$0
603P2.2	100mm Thick Concrete Paving	m ²							
603P2.3	150mm Thick Concrete Paving	m ²							
603P2.13	Extra over rate for reinforced concrete paving using SL72 mesh	m ²							
604P2	Removal of existing concrete paving								
604P2.2	Reinforced	m ²							
	Retaining wall								
605P10.2	Concrete works	m ³							
605P10.3	Reinforcements	tn							
SUB-TOTAL TO SUMMARY TABLE									
800 INCIDENTAL WORKS									
804P1	Fencing								
804P1.4	Rural Road Boundary Fence (refer to RMS R0800-02: Cattle Proof	m							
804P2	Removal of Existing Fences	m							
804P3	Gates and Access								
809P1	Decomposed Granite Gravel	m ²							
811P1	Mortared Stone Wall Foundation	m ³							
811P2	Mortared Stone Wall Face and Top	m ²							
811P3	Mortared Stone Demolition	m ²							
814P1	Bus Stop Seat	Each							
815P1	Handrail								
815P1.1	PD1 Rail	m							
815P1.2	BNT Handrail/Fence	m							
SUB-TOTAL TO SUMMARY TABLE									
900 LANDSCAPE									
905P1	Topsoiling								
905P1.1	Dryland grass areas	m ²							
906P1	Grassing	m ²							
908P1	Bitumen and straw mulching	m ²							
911P1	Consolidation	Weeks							
SUB-TOTAL TO SUMMARY TABLE									
1000 ROAD SIGNS									
1010P4	General Signs								
1010P4.1	Traffic Signs	Lump Sum							
SUB-TOTAL TO SUMMARY TABLE									

Bill of Quantities

1100 PAVEMENT MARKING									
1108P1	Eradication of Redundant Pavement Marking	Lump Sum							
1110P1	Set out of Pavement Marking	Lump Sum							
1111P1 Paint Longitudinal Lines									
1111P1.13	Lane Line (L5-12)	m							
1111P2 Paint Transverse Lines, Symbols, Legends, Arrows, Chevrons, Traffic Islands and Kerbs									
1111P2.3	Bicycle Pavement Marking	Each							
1112P1 Long Life Material (LLM): Longitudinal Lines									
1112P1.1	Continuity Line (C1)	m							
1112P1.2	Continuity Line (C2)	m							
1112P1.5	Merge line (M1)	m							
1112P1.6	Merge Line (M2)	m							
1112P1.7	Barrier Line (B1)	m							
1112P1.13	Edgeline (E1)	m							
1112P2 Long Life Material (LLM): Transverse Lines, Symbols, Legends and Arrows									
1112P2.1	Stop Line (SL1)	m							
1112P2.3	Hold Line (HL1)	m							
1112P2.4	Cross Walk Line (XWL)	m							
1112P2.6	Bicycle lane green surface coat	m2							
1112P2.13	Pavement Arrow (A3)	Each							
1112P2.20	Lettering "FORM ONE LANE"	Each							
1112P2.23	Lettering "BUS STOP"	Each							
1113P2 Installation of Retroreflective Raised Pavement Markers									
		Lump Sum							
SUB-TOTAL TO SUMMARY TABLE									
1300 TRAFFIC SIGNALS									
1301P1	Traffic Signals	Lump Sum							
1301P2	Electrical Supply	Lump Sum							
1301P2	Communications Supply	Lump Sum							
SUB-TOTAL TO SUMMARY TABLE									
1400 STREET LIGHTING									
14P1 Lighting Columns and Outreach Arms									
14P1.8	10.5m impact absorbing pole (Direct Buried) with 1.5m outreach	Each							
14P8.9	10.5m impact absorbing pole (Direct Buried) with twin 1.5m outreach	Each							
14P2 Luminaires and Fittings									
14P2.4	NXT 72L 2ES 4K 158w	Each							
14P4	Streetlighting Fees and Co-ordination Costs	Lump Sum							
14P5 Supply and lay conduit									
14P5.1	50mm diameter	m							
14P6 Supply and lay cable									
14P6.1	16mm2, 4 core x LPE insulated cable	m							
1406P6	Commissioning and Testing	Lump Sum							
1406P7	As-installed drawings	Lump Sum							
14P9	Removal and disposal of redundant light columns	Each							
SUB-TOTAL TO SUMMARY TABLE									