



*Minutes of the Engineering
Standing Committee of the Council
4 March 2008
commencing at 11:05 am*

PRESENT

Councillors – M J Cox (Chair), M P Berwick (Mayor), D P Egan (Deputy Mayor), W J Bellerio, D G Pitt and J Sciacca.

Staff – B W Ede (Acting Chief Executive Officer), I B Barton (General Manager Finance & Administration), P M Hoyer (Acting General Manager Development & Environment), R J Baade (General Manager Engineering) and S K Andrews (Corporate Support).

08/0304/12 DECLARATIONS OF INTEREST

There were no declarations of interest presented to the meeting.

08/0304/13 CONFIRMATION OF MINUTES – 12 FEBRUARY 2008

Moved Cr Berwick

Seconded Cr Sciacca

"That the minutes of the Engineering Standing Committee Meeting held on 12 February 2008 be confirmed."

Carried unanimously

ATTENDANCE/WITHDRAWAL

Cr Davis attended the meeting at 11:08 am.

REPORTS

LATE REPORT – TENDER ASSESSMENT REPORT

The General Manager Engineering, Bob Baade, advised the meeting of a late report to be tabled – the Tender Assessment Report, Contract No 72-2007-01, Tender Number: 13-07/08 (Attachment One [1]).



08/0304/13A CONSIDERATION OF LATE REPORT – TENDER ASSESSMENT
REPORT

Moved Cr Cox

Seconded Cr Egan

"That the Committee considers the late report from the General Manager Engineering, Bob Baade: Tender Assessment Report, Contract No 72-2007-01, Tender Number: 13-07/08."

Carried unanimously

08/0304/14 PART OF ROAD ABUTTING LOT 6 SP108632 & LOT 254 SR337,
BETWEEN SCOMAZZON ROAD & SOMERSET DRIVE, WHYANBEEL
– APPLICATION TO RECONSIDER A TEMPORARY ROAD CLOSURE

Moved Cr Berwick

Seconded Cr Sciacca

"That the status quo regarding road closures referred to in item 08/0304/14 as land described as Part of Road Abutting Lot 6 on SP108632 & Lot 254 on SR337, and located between Scomazzon Road & Somerset Drive, Whyanbeel, remain as is."

For: Cr Berwick, Sciacca, Egan, Davis, Pitt, Bellerio

Against: Cr Cox

Carried

08/0304/15 CONSTRUCTION OF COUNCIL ROAD FROM SOMERSET DRIVE,
WHYANBEEL – APPLICATION FOR COMPENSATION

Moved Cr Sciacca

Seconded Cr Bellerio

"That the Committee:

- 1. names the road from Somerset Drive to Scomazzon Road, Whyanbeel, 'Davemark Road'; and*
- 2. pays to the applicants the sum of \$9 863.70 being the fair and reasonable amount of compensation for their costs expended as a result of a misunderstanding between Douglas Shire Council and the applicants in relation to the maintenance of the unnamed road from Somerset Drive to the link with the entrance of the internal access road on land described as Lot 6 on SP108632, Parish of Whyanbeel."*

Carried unanimously

08/0304/16 NAMING OF UNNAMED ROAD OFF ASSMAN ROAD, MIALLO

Moved Cr Berwick

Seconded Cr Sciacca

"That the Committee approves the name of 'Assman Lane' for the unnamed road off Assman Road, Miallo."

Carried unanimously

ATTENDANCE/WITHDRAWAL

Cr Egan withdrew from the meeting at 11:28 am and re-attended at 11:30 am.

**08/0304/17 REQUEST FOR BURIAL OUTSIDE OF DOUGLAS SHIRE COUNCIL
LOCAL CEMETERIES**

Moved Cr Berwick

Seconded Cr Davis

"That the Committee approves the request for burial outside of Douglas Shire Council local cemeteries, with the condition that the burial record is notified to Douglas Shire Council on an 'Application for Burial' form."

Carried unanimously

NOTICES OF MOTION

**08/0304/18 GP0108M – SOUTHERN ENTRANCE TO OLD DAINTREE PALMS
RESORT, WONGA BEACH**

Moved Cr Pitt

Seconded Cr Sciacca

"That the Committee recommends to the development assessment panel the views of this Council regarding concern at the likelihood of significant increases in traffic volumes on Marlin Drive and loss of residential amenity which will occur with the redevelopment of the 'Daintree Palms' site particularly if approval is granted for the connection of old Wonga to Marlin Drive through the site.

Furthermore, that the Committee recommends that the proposed subdivision be conditioned to ensure the road through the site is heavily calmed to guarantee against speeding traffic."

ATTENDANCE/WITHDRAWAL

Cr Pitt withdrew from the meeting at 11:46 am and re-attended at 11:48 am.

The General Manager Finance & Administration, Ian Barton, withdrew from the meeting at 11:48 am.

Carried unanimously

A further recommendation was moved in relation to item 08/0304/18 – GP0108M – Southern Entrance to Old Daintree Palms Resort, Wonga Beach:

Moved Cr Berwick

Seconded Cr Cox

08/0304/18(i)

“That the assessment panel further considers reinstatement of the drainage at Wonga to its original position.”

ATTENDANCE/WITHDRAWAL

The General Manager Finance & Administration re-attended the meeting at 12:01 pm.

For: Cr Berwick, Cox, Davis, Pitt, Sciacca

Against: Cr Egan, Bellerio

Carried

08/0304/19

GP0208M – SPEEDING ALONG MARLIN DRIVE, WONGA BEACH

Moved Cr Pitt

Seconded Cr Bellerio

“That the Committee addresses speeding along Marlin Drive, Wonga Beach, by installing a speed calming device to the southern side of the intersection of Marlin Drive and Lifu Close, Wonga Beach.”

Carried unanimously

08/0304/20 RD1808M – TRAFFIC CALMING ALONG MARLIN DRIVE, WONGA BEACH

"That the Committee urges the Cairns Regional Council to install a traffic calming device in Marlin Drive, Wonga Beach, at the Lifu Close intersection, and only allow north-south access to the former Daintree Palms Resort property through the car park, and not via an open road."

The motion was withdrawn

08/0304/21 GP0608M – LANDSCAPING OF ENTRANCE TO PORT DOUGLAS – BREAKDOWN OF COSTING

Moved Cr Sciacca

Seconded Cr Bellerio

"It was recorded that the Committee expressed its concern at the cost of the works completed to landscape the entrance to Port Douglas."

For: Cr Sciacca, Bellerio, Egan, Davis, Pitt

Against: Cr Berwick, Cox

Carried

08/0304/22 GP0708M – RELOCATION OF DOUGLAS SHIRE COUNCIL ENGINEERS' OFFICE

"That the Committee supplies and funds the relocation of the engineers' office. That the Committee resolves to commit the engineers' office, when it is no longer required for staff, and fund its relocation to George Davis Park, Mossman, for the purposes of multi-use to community groups, tourist information centre and others."

The motion was withdrawn

ATTENDANCE/WITHDRAWAL

The General Manager Finance & Administration withdrew from the meeting at 12:14 pm.

ACCEPTANCE OF TENDER – CONTRACT NO 72-2007-01, TENDER
NUMBER: 13-07/08

The following recommendation was forthcoming from consideration of the Tender Assessment Report (Attachment One [1]), tabled in item 08/0403/13A:

Moved Cr Sciacca

Seconded Cr Egan

08/0403/22A

“That the Committee accepts the tender of Cairns Works for \$1 105 995 as presented by the General Manager Engineering, Bob Baade, in the Tender Assessment Report – Contract No 72-2007-01, Tender Number: 13-07/08.”

Carried unanimously

TERMINATION OF THE MEETING

The meeting was closed at 12:21 pm.

Presented to and noted by the Cairns Regional Council on the day of
April 2008.

M J Cox
Chair

Attachment One (1)

Tender Assessment Report

Contract No. 72-2007-01
Tender Number: 13-07/08



Principal
Douglas Shire Council

Project Description
Formation Widening, Pavement Overlay,
Seal Extensions and Carpark Development

- Project Locations**
- George Davis Park, Mossman
 - Mowbray River Road, Craiglie
 - Camelot Close, Cape Tribulation
 - Forest Creek Road, Daintree
 - Buchanan Creek Road, Cow Bay



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1.0 Description of Works

This Contract is for the Formation Widening, Pavement Overlay and Bitumen Seal Extensions of Forest Creek Road (Daintree), Camelot Close (Cape Tribulation), Buchanan Creek Road (Cow Bay) and Mowbray River Road (Mowbray Valley); and for landscaping and improvements to the carpark at George Davis Park (Mossman).

This contract is a Schedule of Rates Contract.

Tender assessment is by both price and experience.

2.0 Scope of Works

The scope of the work under the contract includes:

- Contractors site facilities
- Environmental management and ancillary works
- Provision for traffic
- Provision of as-constructed data
- Earthworks
- Stormwater drainage
- Formation widening and pavement overlay
- Landscaping

3.0 Estimate of Costs

An amount of \$905,000 has been allowed for in Council's Capital Works budget. An additional \$150,000 is available from the LRRS allocation. Total Budget allocation \$1,055,000

- Buchanan Creek Road \$275,000
- Forest Creek Road \$250,000
- Camelot Close \$150,000
- Mowbray River Road \$150,000 (+ \$150,000 LRRS)
- George Davis Park \$80,000

In addition, an amount of \$150,000 has been allocated through the Local Road of Regional Significance (LRRS) programme for works on Mowbray River Road.

Pipes and precast stormwater units have been ordered by council, at a cost to come off the budget.

4.0 Advertisement Detail

Tender advertisements were placed in the following newspaper on the following dates:

- Cairns Post Saturday 2, 9 and 16 February 2008

5.0 Close of Tender

Tenders closed with RECS Consulting Engineers at 3pm, Monday 25 February 2008.



6.0 Apparent Order of Tenders

The apparent order of tenders is:

- (1) Cairns City Council – Cairns Works
- (2) Downer EDi Works
- (3) Northern Civil Earthworks
- (4) CEC Group

7.0 Details of Tenders Received

The following is a summary of the prices received. Full details of rates and prices are included as Appendix A.

Note - Prices have been adjusted for extension errors in accordance with provision under a schedule of rates contract.

	NAME OF TENDERER	Cairns Works	Downer Edi Works	Northern Civil Earthworks	CEC
SCHEDULE	DESCRIPTION	AMOUNT	AMOUNT	AMOUNT	AMOUNT
1	George Davis Park				
1A	Preliminaries	\$27,722.00	\$13,663.76	\$17,600.00	\$34,956.00
1B	Earthworks	\$7,518.50	\$11,630.75	\$13,250.00	\$9,460.00
1C	Roadworks	\$65,562.00	\$83,326.92	\$76,676.00	\$81,849.00
1D	Landscaping	\$375.00	\$750.00	\$1,375.00	\$600.00
1E	Other Items	\$0.00	\$0.00	\$3,800.00	\$6,240.00
	TOTALS	\$101,177.50	\$109,371.43	\$112,701.00	\$133,105.00
	Budget Estimate	\$80,000.00			
2	Mowbray River Road				
2A	Preliminaries	\$22,840.00	\$18,920.00	\$21,575.00	\$40,567.00
2B	Earthworks	\$36,175.00	\$38,098.65	\$41,192.50	\$68,359.00
2C	Roadworks	\$101,015.60	\$145,246.33	\$152,613.50	\$201,875.00
2D	Other Items	\$0.00	\$0.00	\$4,500.00	\$30,000.00
	TOTALS	\$160,030.60	\$202,264.98	\$219,881.00	\$340,801.00
	Budget Estimate	\$300,000.00			



3	Camelot Close				
3A	Preliminaries	\$31,321.00	\$18,920.00	\$29,200.00	\$46,889.00
3B	Earthworks	\$107,901.40	\$58,940.07	\$197,534.50	\$119,589.50
3C	Roadworks	\$93,548.00	\$159,111.86	\$163,657.16	\$239,275.30
3D	Stormwater	\$16,541.80	\$8,703.95	\$9,451.02	\$11,373.52
3E	Other Items	\$0.00	\$0.00	\$4,200.00	\$23,733.60
	TOTALS	\$249,312.20	\$245,675.88	\$404,042.68	\$440,860.92
	Budget Estimate	\$150,000.00			
4	Forest Creek Road				
4A	Preliminaries	\$42,346.00	\$18,920.00	\$31,165.00	\$63,177.00
4B	Earthworks	\$76,879.00	\$60,474.68	\$61,231.00	\$109,003.40
4C	Roadworks	\$153,826.00	\$207,420.33	\$227,867.60	\$350,456.00
4D	Stormwater	\$44,482.80	\$47,601.20	\$59,009.40	\$52,847.42
4E	Other Items	\$0.00	\$0.00	\$4,000.00	\$54,352.00
	TOTALS	\$317,533.80	\$334,416.21	\$383,273.00	\$629,835.82
	Budget Estimate	\$250,000.00			
5	Buchanan Creek Road				
5A	Preliminaries	\$35,607.00	\$18,920.00	\$32,400.00	\$58,904.00
5B	Earthworks	\$58,541.00	\$71,922.20	\$58,330.00	\$91,979.00
5C	Roadworks	\$193,895.00	\$241,314.10	\$333,926.20	\$408,806.00
5D	Other Items	\$0.00	\$0.00	\$4,500.00	\$52,800.00
	TOTALS	\$288,043.00	\$332,156.30	\$429,156.20	\$612,489.00
	Budget Estimate	\$275,000.00			
ADJUSTED TENDER TOTAL		\$1,116,097.10	\$1,223,884.80	\$1,549,053.88	\$2,157,091.74
TENDERERS TOTAL		\$1,105,995.00	\$1,220,767.06	\$1,550,205.00	\$2,157,094.00
Extension Amount		Yes	Yes	Yes	Yes
Insurance Details Provided		No	Yes	No	No
Work Programme Provided		Yes	Yes	Yes	Yes
Key Personnel Provided		Yes	Yes	Yes	Yes
Previous Experience Details		Yes	No	Yes	Yes
Conditions of Tender		Yes	Yes	Yes	Yes

Note: A significant extension error was identified under the Cairns Works Camelot Close earthworks component. This has been adjusted in favour of the tenderer.

8.0 Analysis of Tenders

8.1 Cairns Works

8.1.1. Conditions of Tender

- Cairns Works are not responsible for the purchase or delivery of the reinforced concrete pipes or the CSHP; these are to be purchased by Douglas Shire Council.



- Works to be carried out concurrently from April 2008, anticipated after the wet season.
- Manual traffic control has been allowed for during construction.
- Seal works have been incorporated into one rate, listed in the schedule of rates, under Spray Sealing. (Rate for supply and spread screenings is in the spray rates.)

8.1.2. Past Experience

Project	Experience
Collins Ave, Cairns	Reconstruct new road, landscaping, storm water.
Stabilisation Works, Cairns area	Overlay of gravel and cement, stabilise various streets and roads in Shire.
Concrete lined drains	Various lined drains around Cairns, in <i>environmentally sensitive</i> areas.
Mt. Peter Rd reconstruction	Widen and overlay of existing bitumen road to improve ride-ability and pavement life.

8.1.3. Key Personnel

Name and Role	Past Experience
Kevin Davies, Works Coordinator	22 yrs Local Government. 12 yrs as Coordinator/Overseer. Working M.R.D and private contractors.
Ray Larcombe, Works Supervisor	30 yrs in Local Government. Supervision of work crews on M.R.D jobs.
Wayne Abel, Onsite Ganger	Works Supervisor with M.R.D and Local Government.

8.2 Downer EDi Works

8.2.1 Conditions of Tender

- No allowance for the importation of top soil.
- No allowance for the relocation/ altering of services.
- No allowance for the removal of any trees.
- No allowance to import fill, assumed excess material from Forest Ck. Rd. suitable for use in embankments.
- Storm water- allowed full depth crushed rock backfill.
- Storm water - assumed client supplies all pipe.



8.2.2. Past Experience

Project	Experience
POA	

8.2.3. Key Personnel

Name and Role	Past Experience
John Radford, Construction Manager	20 years experience in construction
Dean Wood, Project Manager	10 years experience in construction
Kelly Williams, Project Supervisor	30 yrs experience in construction

8.3 Northern Civil Earthworks

8.3.1 Conditions of Tender

- Tenders are priced as individual projects. There would be cost savings if all tenders were awarded to Northern Civil Earthworks as more than one project can be taken at the same time.

8.3.2 Past Experience

Project	Experience
Macrossan Street Drainage	
Roadworks Yungaburra	
Subdivision Ray Road Marceba	

8.3.3 Key Personnel

Name and Role	Past Experience
Shan Crawford, Site Supervisor	8 yrs in road construction



Allan Mills, Leading Hand	6 yrs at Koppen Earthmoving, 10 yrs in road construction.
Wayne Davis, Project Manager	25 yrs in road Construction

8.4 CEC Group

Note: Construction Environmental Management Plan - included in tender

8.4.1 Conditions of Tender

- Earthwork and embankment

The fill required for the embankment at Camelot Close and Buchanan Creek Road is assumed to be available from the spoil at Forest Creek Rd. Therefore the material cost is excluded and the rate applies only for the transport costs.

- Disposal of spoil and unsuitable material

In the case of excess materials, it has been assumed that this can be disposed of within 6 km distance from each site, at no charge.

- Award of tender

The tender is based on all sections of the work being awarded as a single contract.

8.4.1. Past Experience

Project	Experience
Cairns Esplanade North Parklands (Cairns City Council)	\$6 M Project; creation of recreational parkland including construction, suspended decks, youth activity precinct, carparks, amenity blocks, pedestrian and bicycle paths, BBQ areas, landscaping and park furniture.
Caravonica Round-about Slip Lane (Dept. Main Roads)	\$650 K Project; Construction of a roundabout slip lane at the intersection of Cook Highway and Cairns Western Arterial Rd. Traffic management.
Cityport North Carpark	\$3.7 M Project; Reconstruction of existing 23 000 m ² Pier Marketplace carpark in Cairns, as well as additional 11000m ² carpark space. Also included upgrade of storm water infrastructure, new paving, landscaping, lighting and decorative pavements.
Draper Rd. Upgrade (Cairns City Council)	Consists of two projects: Draper Rd. West and Draper Rd. East. Draper Rd West Upgrade replaces the existing single lane road with new access road. Draper Rd. East Upgrade created a new link between Cairns Rd. (in Gordonvale) and Draper Rd West.
Rainforest Estate Kamerunga	Significant road and civil works in sensitive rainforest environment. Works included construction of roads and a roundabout, 1000 m of water main, sewer, pump station, pressure main, telecom and power conduits and installation of 260 rock anchors.



8.4.2. Key Personnel

Name and Role	Past Experience
Scott Hahne, Project Manager	15 years civil experience. Pomuraaw Sewerage, Oceans Edge-stage 1, Reef Cove - stage 1/2, Northpoint – stage 1
Andrew Eales, Supervisor	25 years civil construction experience. CEC Constructions (Townsville and Port Douglas), Etheridge Shire Council.

9.0 Program of Works

	Northern Civil Earthworks	Downer Edi Works	Cairns Works	CEC
George Davis Park	6 weeks	3 weeks	2.5 Weeks (8 May – 14 June)	2.8 weeks
Mowbray River Rd.	5 weeks	3 weeks	3 Weeks (7 June – 26 June)	4.3 weeks
Camelot Close	5 weeks	3 weeks	5 Weeks (7 April – 13 May)	6 weeks
Forest Creek Rd.	6 weeks	4 weeks	4 Weeks (12 April – 10 May)	7 weeks
Buchanan Creek Rd.	6 weeks	3 weeks	3 weeks (7 – 24 April)	5.5 weeks
Total		16 Weeks	11 Weeks (7 April – 26 June)	16 weeks
Other Comments	Two jobs concurrently		Able to expedite Mowbray to meet LRRS program	

10.0 Recommendation for Award of Contract

The analysis of the tenders did not change the apparent order of tenders.

It is the recommendations of this Tender Assessment Committee that on the basis of this tender assessment for the Formation Widening, Pavement Overlay, Seal Extension and Carpark Development (Tender Number: 13-07/08, Contract No. 72-2007-01) be awarded to Cairns Works, accepting the negotiated tendered price and schedule in accordance with the Capital Works budget amount.

Report prepared by Tender Assessment Committee



Peter Dutailis
RECS Consulting Engineers



Peter Cymbala
Douglas Shire Council



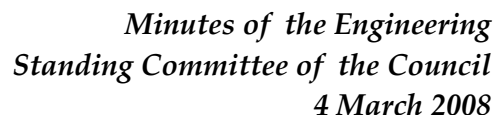
APPENDIX A

Schedules and Extensions

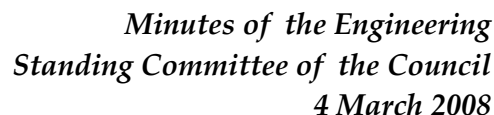


*Minutes of the Engineering
Standing Committee of the Council
4 March 2008*

TENDER SUMMARY		Cairns Works	Downer Edi Works	Northern Civil Earthworks	CEC	Council Budget
SCHEDULE	DESCRIPTION	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
1	George Davis Park					
1A	Preliminaries	\$27,722.00	\$13,863.76	\$17,600.00	\$34,956.00	
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5D	Other Items	\$0.00	\$0.00	\$4,500.00	\$52,800.00	
	TOTALS	\$288,043.00	\$332,156.30	\$429,156.20	\$612,489.00	\$275,000.00
ADJUSTED TENDER TOTAL		\$1,116,097.10	\$1,223,884.80	\$1,549,053.88	\$2,157,091.74	\$1,055,000.00
TENDERERS TOTAL		\$1,105,995.00	\$1,220,767.06	\$1,550,205.00	\$2,157,094.00	
Extention Amount		Yes	Yes	Yes	Yes	
Insurance Details Provided		No	Yes	No	No	
Work Programme Provided		Yes	Yes	Yes	Yes	
Key Personnel Provided		Yes	Yes	Yes	Yes	
Previous Experience Details		Yes	No	Yes	Yes	
Conditions of Tender		Yes	Yes	Yes	Yes	



NAME OF TENDERER			Northern Civil Earthworks		Downer Edl Works		Caims Works		CEC	
DESCRIPTION - George Davis Park	UNIT	QTY	RATE	AMOUNT	RATE	AMOUNT	RATE	AMOUNT	RATE	AMOUNT
SCHEDULE A - PRELIMINARIES										
A.1 Contractor's site facilities establishment and dis-establishment	Item	1	\$2,000.00	\$2,000.00	6500.00	\$8,500.00	11223.00	\$11,223.00	5700.00	\$5,700.00
A.2 Control of erosion and sedimentation	Item	1	\$2,800.00	\$2,800.00	1600.00	\$1,600.00	2101.00	\$2,101.00	5081.00	\$5,081.00
A.3 Construction Safety Plan	Item	1	\$1,500.00	\$1,600.00	1000.00	\$1,000.00	327.00	\$327.00	3545.00	\$3,545.00
A.4 Provision for traffic including traffic management plan	Item	1	\$4,850.00	\$4,860.00	2163.76	\$2,163.76	11133.00	\$11,133.00	12211.00	\$12,211.00
A.5 As-constructed data including construction records	Item	1	\$3,800.00	\$3,800.00	2600.00	\$2,600.00	2679.00	\$2,679.00	3128.00	\$3,128.00
A.6 Insurance (including Cleave)	Item	1	\$2,650.00	\$2,650.00			260.00	\$260.00	2311.00	\$2,311.00
TOTAL				\$17,690.00		\$13,663.76		\$27,722.00		\$34,966.00
SCHEDULE B: EARTHWORKS										
B.1 Clearing and grubbing	Item	1	1500.00	1500			1161.00	\$1,161.00	3676.00	\$3,676.00
B.2 Excavation	m ³	145	65.00	9425	\$86.82	\$9,668.90	33.00	\$4,785.00	26.10	\$3,794.50
B.3 Sloping Topsoil (60mm nominal thickness) (Provisional)	m ³	15	45.00	675	39	\$685.15	9.50	\$142.50	36.8	\$552.00
B.4 Reseeding Topsoil (Provisional)	m ³	5	25.00	125	23.68	\$118.40	60.00	\$300.00	28.90	\$144.50
B.5 Imported Topsoil (Provisional, if Ordered)	m ³	10	75.00	750	58.85	\$688.50	48.00	\$480.00	39.30	\$393.00
B.6 Excavate and Backfill Unsuitable Material Below Subgrade with Subbase Type 2 Subtype 2.5 (Provisional, if Ordered)	m ³	6	165.00	775	109.96	\$659.80		\$850.00		\$710.00
TOTAL				\$13,250.00		\$11,630.76		\$7,510.50		\$9,460.00
SCHEDULE C - ROADWORKS										
C.1 Dense Graded Asphalt D310 (incl. Prime)	tonne	39	280.00	\$10,920.00	\$815.33	\$23,997.87	280.00	\$10,920.00	485.00	\$18,915.00
C.2 Base Type 2 (Subtype 2.1)	m ³	71	160.00	\$10,860.00	\$86.20	\$6,282.20	139.00	\$9,899.00	102.00	\$11,502.00
C.3 Subbase Type 2 (Subtype 2.3)	m ³	81	160.00	\$12,160.00	\$88.20	\$7,144.20	141.00	\$11,421.00	139.00	\$11,259.00
C.4 Barrier Kerb and Channel	m	33	55.00	\$1,815.00	74.18	\$2,447.64	51.00	\$1,698.00	73.00	\$2,406.00
C.5 Barrier Kerb	m	83	51.00	\$4,233.00	74.18	\$6,156.84	44.00	\$3,652.00	68.00	\$3,496.00
C.6 Concrete Invert (Type 1)	m	33	56.00	\$1,848.00	77.40	\$2,554.20	46.00	\$1,518.00	73.00	\$2,409.00
C.7 Concrete Invert (Type 2)	m	47	56.00	\$2,632.00	96.75	\$4,547.25	46	\$2,162.00	69	\$3,243.00
C.8 Concrete Pathway	m ²	204	120.00	\$22,080.00	119.33	\$24,343.32	83	\$18,972.00	116	\$23,664.00
C.9 Kerb Ramp (2.0m Wide)	Each	2	1200.00	\$2,400.00	1095.50	\$2,193.00	909	\$1,800.00	598	\$1,196.00
C.10 Signage	Item	1	6750.00	\$6,750.00	2590.00	\$2,590.00	1285	\$1,285.00	567	\$597.00
C.11 Pavement Marking	Item	1	2800.00	\$2,800.00	350.00	\$350.00	1700	\$1,700.00	608	\$908.00
C.12 Root Barrier (Provisional, if Ordered)	m	10	45.00	\$450.00	75.00	\$750.00	58	\$680.00	35	\$350.00
TOTAL				\$76,676.00		\$63,326.92		\$85,562.00		\$81,849.00
SCHEDULE D - LANDSCAPING										
D.1 Grass Seeding Disturbed Areas (Provisional)	m ²	260	5.50	\$1,375.00	\$3.00	\$750.00	1.50	\$375.00	2.40	\$600.00

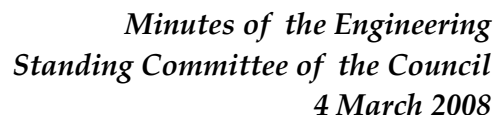


NAME OF TENDERER				Northern Civil Earthworks		Downer Edl Works		Calme Works		CEC	
DESCRIPTION - Mowbray River Road				UNIT	QTY	RATE	AMOUNT	RATE	AMOUNT	RATE	AMOUNT
SCHEDULE A - PRELIMINARIES											
2A.1	Contractor's site facilities establishment and dis-establishment	Item	1	2500.00		\$2,500.00		8500.00	\$6,500.00	8552.00	\$8,552.00
2A.2	Control of erosion and sedimentation	Item	1	2480.00		\$2,480.00		1500.00	\$1,600.00	1874.00	\$1,874.00
2A.3	Construction Safety Plan	Item	1	1700.00		\$1,700.00		1000.00	\$1,000.00	327.00	\$327.00
2A.4	Provision for traffic including traffic management plan	Item	1	3876.00		\$3,876.00		7470.00	\$7,470.00	9386.00	\$9,386.00
2A.5	As-constructed data including construction records	Item	1	6850.00		\$6,850.00		2500.00	\$2,500.00	2341.00	\$2,341.00
2A.6	Insurance (including QI cover)	Item	1	3800.00		\$3,800.00				380.00	\$380.00
TOTAL						\$21,575.00		\$18,320.00		\$22,840.00	
SCHEDULE B: EARTHWORKS											
2B.1	Clearing and grubbing	Item	1	1850.00		\$1,850.00		\$289.00	\$5,269.00	2360.00	\$2,360.00
2B.2	Embankment	m ³	190	10.50		\$1,995.00		32.01	\$6,081.92	32.00	\$8,080.00
2B.3	Excavation	m ³	125	10.50		\$1,312.50		36.27	\$4,533.75	21.00	\$2,625.00
2B.4	Rip and recompact subgrade	m ²	5000	3.20		\$16,000.00		2.10	\$10,500.00	2.30	\$11,500.00
2B.5	Stripping Topsoil (Provisional Quantity)	m ³	120	10.50		\$1,260.00		12.38	\$1,485.60	8.25	\$990.00
2B.6	Excavate and Backfill unsuitable Material Below Subgrade with Subbase Type 2 (Sub Type 2.5) (Provisional Quantity)	m ³	120	105.00		\$12,600.00		85.07	\$10,208.40	80.00	\$9,600.00
2B.7	Embankment (Imported)	m ³	66	95.00		\$6,270.00				48.00	\$2,990.00
TOTAL						\$41,192.50		\$38,098.65		\$38,175.00	
SCHEDULE C - ROADWORKS											
2C.1	Supply and Spread 150 mm Base (Type 2.1) (including access)	m ²	760	118.00		\$89,680.00		\$105.07	\$91,954.60	85.00	\$86,300.00
2C.2	Supply and Spread 14mm Sealing Aggregate (Precoated) 80m2/m3	m ³	66	222.50		\$14,452.50		\$239.35	\$15,557.75		\$0.00
2C.3	Prime/Seal Bitumen CL170 (5% Cutler) , spray rate 1.8 l/m2, including supply of binder, including supply of additives	litre	9000	1.70		\$15,300.00		\$1.82	\$16,380.00	2.00	\$18,000.00
2C.4	Supply and Spread 10 mm Seal Aggregate (Precoated) 110m2/m3	m ³	46	273.00		\$12,558.00		295.53	\$13,602.38		\$0.00
2C.5	Bitumen CL170 , spray rate 1.2 l/m2, including supply of binder, including supply of additives	litre	8000	1.80		\$10,800.00		1.94	\$11,640.00	2.00	\$12,000.00
2C.6	Take up and re-erect existing signs (R1-2B)	Each	2	105.00		\$210.00		250.00	\$500.00	160.00	\$320.00
2C.7	Take up and re-erect existing signs (R4-1B)	Each	2	105.00		\$210.00		250.00	\$500.00	160.00	\$320.00
2C.8	Take up and re-erect existing signs (W1-3B)	Each	2	105.00		\$210.00		250.00	\$500.00	160.00	\$320.00
2C.9	Take up and re-erect existing signs (School Bus Route)	Each	1	105.00		\$105.00		250.00	\$250.00	160.00	\$160.00
2C.10	Install new Sign (W1-1A(R)) and (W8-2A)	Each	1	450.00		\$450.00		380.00	\$380.00	262.00	\$262.00
2C.11	Install new Sign (W5-11A) and (W8-2A)	Each	2	450.00		\$900.00		380.00	\$760.00	262.00	\$524.00
2C.12	Pavement markings - Separation line	m	382	6.50		\$2,483.00		1.80	\$987.60	2.8	\$1,069.60
2C.13	Pavement markings: Barrier line, Double	m	100	12.50		\$1,250.00		1.80	\$180.00	3.1	\$310.00
2C.14	Pavement markings: Barrier line, Single direction	m	180	6.50		\$1,170.00		1.80	\$324.00	2.5	\$450.00
2C.15	Take up and replace existing guide posts (Provisional Quantity)	Each	25	75.00		\$1,875.00		80.00	\$2,000.00	38	\$950.00
2C.16	Remove and replace Lot ID	Each	1	150.00		\$150.00		100.00	\$100.00	30.00	\$30.00
TOTAL						\$162,613.50		\$145,246.33		\$101,015.60	
SCHEDULE D: OTHER ITEMS											
	Soil Testing	PS	1	4500.00		\$4,500.00					
	Grade and trim pavement box	m ²	5000.00								3.00
	Grade, trim and prepare surface for sealing	m ²	6000.000								3.00
TOTAL						\$4,500.00		\$0.00		\$0.00	\$30,008.00
						\$219,831.00		\$202,264.98		\$160,030.60	\$340,801.00
DAY RATES											
Front end loader											
Backhoe											
20t Excavator											
30t Excavator											
Body truck											
Bobcat											
10t flat drum roller											
Footpath roller											
Water truck											
Grader											
Labourer											
Plant operator											
Loading hand											
Ganger											
Site supervisor											
Project engineer											
Project manager											
Survey crew											
Truck driver											
Foreman											
Concrete Cutter											
Plumber											
Electrician											

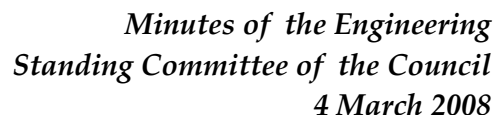


Minutes of the Engineering
Standing Committee of the Council
4 March 2008

NAME OF TENDERER				Northern Civil Earthworks		Downer Edl Works		Cairns Works		CEC	
DESCRIPTION - Camelot Close				UNIT	QTY	RATE	AMOUNT	RATE	AMOUNT	RATE	AMOUNT
SCHEDULE A - PRELIMINARIES											
3A.1	Contractor's site facilities establishment and dis-establishment			Item	1	2500.00	\$2,500.00	5500.00	\$6,500.00	15255.00	\$15,255.00
3A.2	Control of erosion and sedimentation			Item	1	2800.00	\$2,800.00	1500.00	\$1,500.00	2163.00	\$2,163.00
3A.3	Construction Safety Plan			Item	1	2500.00	\$2,500.00	1000.00	\$1,000.00	343.00	\$343.00
3A.4	Provision for traffic including traffic management plan			Item	1	3200.00	\$3,200.00	7420.00	\$7,420.00	11133.00	\$11,133.00
3A.5	As-constructed data including construction records			Item	1	8500.00	\$8,500.00	2500.00	\$2,500.00	1530.00	\$1,530.00
3A.6	Insurance (including OI leave)			Item	1	5200.00	\$5,200.00			370.00	\$370.00
3A.7	Ferry Fees			Item	1	4500.00	\$4,500.00			227.00	\$227.00
TOTAL						\$29,200.00		\$18,929.08		\$31,321.00	\$46,880.00
SCHEDULE B: EARTHWORKS											
3B.1	Clearing and grubbing			Item	1	1625.00	\$1,625.00	5289	5289	\$2,215.00	\$3,382.00
3B.2	Embankment			m³	1010	14.50	\$14,645.00	28.94	27209	\$38.00	\$11.35
3B.3	Excavate - all Materials			m³	83	15.50	\$1,286.50	12.45	1033	\$20.00	1660.00
3B.4	Rip & recompact subgrade			m²	3628	3.50	\$13,398.00	2.74	10489	2.80	10718.40
3B.5	Embankment (imported)			m³	927	160.00	\$148,320.00		0	44.00	40788.00
3B.6	Stopping Topsoil (Provisional Quantity)			m³	120	10.50	\$1,260.00	17.83	2140	9.50	1140.00
3B.7	Excavate and Backfill unsuitable Material Below Subgrade with Subbase Type 2/Sub Type 2.5) (Provisional Quantity)			m³	100	168.00	\$16,800.00	127.80		130.00	240.90
TOTAL						\$197,634.50		\$58,940.07		\$107,901.40	\$119,589.50
SCHEDULE C - ROADWORKS											
3C.1	Supply and Spread 14mm Sealing Aggregate (Precast) 80m2/m3			m³	49	303.00	\$14,847.00	\$325.79	\$15,963.71		\$0.00
3C.2	Primerseal, Bitumen CL170 (5% Cutler), spray rate 1.8 l/m2, including supply of binder, including supply of additives			litre	6991	1.82	\$12,641.62	\$1.96	\$13,503.36	2.40	\$18,538.40
3C.3	Supply and Spread 10 mm Seal Aggregate (Precast) 110m2/m3			m³	35	375.20	\$13,132.00	\$403.31	\$14,115.85		\$0.00
3C.4	Bitumen CL170, spray rate 1.2 l/m2, including supply of binder, including supply of additives			litre	4594	1.91	\$8,774.54	1.77	\$8,131.38	2.40	\$11,026.60
3C.5	150mm Base (Type 2.1)			m³	624	176.50	\$109,612.00	165.44	\$103,234.56	103.00	\$64,272.00
3C.6	Remove and re-erect signs (if required)			Each	8	100.00	\$800.00	250.00	\$2,000.00	160.00	\$1,280.00
3C.7	Take up and re-erect existing guide posts (Provisional)			Each	27	150.00	\$4,080.00	80.00	\$2,160.00	16	\$432.00
TOTAL						\$163,687.16		\$159,111.86		\$93,848.00	\$239,276.30
SCHEDULE D - STORMWATER											
3D.1	Installation of 450 RCP new extension			m	2.44	45.50	\$111.02	\$151.62	\$369.95	370.00	\$902.80
3D.2	Installation of 1200 CSNP new extension			m	3.2	950.00	\$3,040.00	\$740.00	\$2,368.00	2600.00	\$8,320.00
3D.3	Rock Protection			m³	2	350.00	\$700.00	\$350.00	\$700.00	498.00	\$916.00
3D.4	Supply and Install 1200 CSNP Cast In-situ Headwall			Item	1	4100.00	\$4,100.00	\$870.00	\$3,870.00	5556.00	\$5,556.00
3D.5	Supply and Install 450 RCP precast Headwall			Item	1	1500.00	\$1,500.00	\$396.00	\$1,396.00	807.00	\$807.00
TOTAL						\$9,451.02		\$8,703.96		\$16,541.80	\$11,573.52
SCHEDULE E: OTHER ITEMS											
3E.1	Soil Sealing			PS	1	4200.00	\$4,200.00				
	Grade and trim pavement box			m²	3828.00					3.10	\$11,866.80
	Grade, trim and prepare surface for sealing			m²	3828.00					3.10	\$11,866.80
TOTAL						\$4,200.00		\$0.00		\$0.00	\$23,733.80
DAY RATES						\$404,042.88		\$245,675.88		\$249,312.20	\$440,968.92
	Front end loader					Rate	Rate	Rate	Rate		
	Backhoe					115.00	100.00	80.00			
	20t Excavator					110.00	100.00	97.00			
	30t Excavator					135.00	140.00	130.00			
	Body truck					150.00		160.00			
	Bobcat					100.00	85.00	90.00			
	10t flat drum roller					95.00	80.00	80.00			
	Footpath roller					100.00	350/day	90.00			
	Water truck					80.00					
	Grader					110.00	85.00	97.00			
	Labourer					135.00	120.00	120.00			
	Plant operator					45.00	45.00	43.00			
	Leading hand					55.00	50.00	47.00			
	Ganger					55.00	60.00				
	Site supervisor					80.00		47.00			
	Project engineer					72.00	80.00	60.00			
	Project manager					85.00	75.00	80.00			
	Survey crew					85.00	80.00	66.00			
	Truck driver										
	Foreman										
	Concrete Cutter										
	Plumber										
	Electrician										



NAME OF TENDERER				Northern Civil Earthworks		Downer EDI Works		Caums Works		CEC	
DESCRIPTION - Forest Creek Road				UNIT	QTY	RATE	AMOUNT	RATE	AMOUNT	RATE	AMOUNT
SCHEDULE A - PRELIMINARIES											
4A.1	Contractor's site facilities establishment and dis-establishment	Item	1	4800.00	\$4,800.00	6500.00	\$6,500.00	21535.00	\$21,535.00	7592.00	\$7,592.00
4A.2	Control of erosion and sedimentation	Item	1	3875.00	\$3,875.00	1500.00	\$1,500.00	2513.00	\$2,513.00	12438.00	\$12,438.00
4A.3	Construction Safety Plan	Item	1	1750.00	\$1,750.00	1000.00	\$1,000.00	327.00	\$327.00	3148.00	\$3,148.00
4A.4	Provision for traffic including traffic management plan	Item	1	2500.00	\$2,500.00	7420.00	\$7,420.00	13704.00	\$13,704.00	6881.00	\$6,881.00
4A.5	As-constructed data including construction records	Item	1	9850.00	\$9,850.00	2500.00	\$2,500.00	3065.00	\$3,065.00	2778.00	\$2,778.00
4A.6	Insurance (including Cleave)	Item	1	5690.00	\$5,690.00			900.00	\$900.00	9722.00	\$9,722.00
4A.7	Ferry Fees	Item	1	2500.00	\$2,500.00			227.00	\$227.00	16516.00	\$16,516.00
TOTAL						\$31,165.00		\$18,920.00		\$42,346.00	\$63,177.00
SCHEDULE B - EARTHWORKS											
4B.1	Embankment	m ³	131	8.50	\$1,113.50	33.73	\$4,418.63	35.00	\$4,716.00	15.40	\$2,017.40
4B.2	Clearing and Grubbing	Item	1	4850.00	\$4,850.00	5289.00	\$5,289.00	6343.00	\$5,343.00	3240.00	\$3,240.00
4B.3	Excavation	m ³	1395	12.90	\$24,437.50	14.51	\$28,367.05	18.00	\$36,190.00	23.2	\$45,366.00
4B.4	Rip & recompact subgrade	m ²	8800	2.10	\$14,280.00	1.54	\$10,472.00	2.60	\$17,880.00	6.30	\$42,840.00
4B.5	Stripping Topsoil (Provisional Quantity)	m ³	103	10.90	\$1,060.00	14.88	\$1,488.00	9.50	\$950.00	21.50	\$2,150.00
4B.6	Excavate and Backfill unsuitable Material Below Subgrade with Subbase										
4B.6	Type 2/Sub Type 2.5 (Provisional Quantity)	m ³	100	195.00	\$19,500.00	104.40	\$10,440.00	130.00	\$13,000.00	134.00	\$13,400.00
TOTAL						\$61,231.00		\$60,474.68		\$76,579.00	\$106,003.40
SCHEDULE C - ROADWORKS											
4C.1	Supply and Spread 14mm Sealing Aggregate (Precoated)	m ²	85	224.40	\$19,074.00	\$231.57	\$19,883.45		\$0.00		\$26,775.00
4C.2	Primerseal, Bitumen CL170 (5% Cutler), spray rate 1.8 l/m ² , including supply of binder, including supply of additives	litre	12240	1.85	\$20,196.00	\$1.70	\$20,808.00	2.20	\$26,928.00	2.80	\$31,624.00
4C.3	Supply and Spread 10 mm Seal Aggregate (Precoated)	m ²	62	264.50	\$16,399.00	\$272.99	\$16,925.38		\$0.00	388.00	\$23,932.00
4C.4	Bitumen CL170, spray rate 1.2 l/m ² , including supply of binder, including supply of additives	litre	8160	1.71	\$13,953.60	1.77	\$14,443.20	2.20	\$17,952.00	2.80	\$22,116.00
4C.5	Supply and Spread 150mm Base (Type 2.1)	m ²	1110	135.00	\$149,850.00	115.73	\$128,460.30	85.00	\$105,460.00	201.00	\$223,110.00
4C.6	Supply and Install Traffic Sign W1-35	Item	1	450.00	\$450.00	370.00	\$370.00	267.00	\$267.00	497.00	\$497.00
4C.7	Supply and Install Road Edge Guide Posts	Each	81	95.00	\$7,695.00	80.00	\$6,480.00	38	\$3,076.00	279	\$22,596.00
4C.8	Take Up and Re-erect Existing W6-19 Sign	Item	1	250.00	\$250.00	250.00	\$250.00	161	\$1,610.00	603	\$5,030.00
TOTAL						\$227,887.90		\$207,420.33		\$163,626.00	\$380,456.00
SCHEDULE D - STORMWATER											
4D.1	Take up and Stack Existing 375 RCP	m	9.76	115.00	\$1,122.40	\$51.23	\$500.00	160.00	\$1,951.60	174.60	\$1,704.10
4D.2	Installation of 375 RCP using all existing and new	m	26.84	450.00	\$12,078.00	\$133.55	\$3,584.48	380.00	\$9,897.20	246.00	\$5,655.32
4D.3	Installation of 450 RCP extension	m	2.44	525.00	\$1,281.00	\$127.75	\$311.71	360.00	\$964.00	392.50	\$980.10
4D.4	Installation of 2/1200 RCP extension	m	6.1	1980.00	\$12,078.00	500.00	\$3,050.00	1780.00	\$10,858.00	1623.00	\$11,156.30
4D.5	Remove/Canalize Existing Headwalls	Item	1	1340.00	\$1,340.00	750.00	\$750.00	388.00	\$388.00	862.00	\$862.00
4D.6	Supply and Install Precast (existing) 375 Headwall	Each	3	795.00	\$6,390.00	1685.00	\$13,485.00	824.00	\$6,592.00	1246.00	\$9,988.00
4D.7	Supply and Install Precast 375 Headwall	Item	1	590.00	\$590.00	1390.00	\$1,390.00	669.00	\$669.00	1247.00	\$1,247.00
4D.8	Supply and Install Precast 450 Headwall	Item	1	720.00	\$720.00	1690.00	\$1,690.00	854.00	\$694.00	1270.00	\$1,270.00
4D.9	Supply and Install Cast in situ 1200 Headwall	Item	1	3200.00	\$5,200.00	9575.00	\$9,075.00	7463.00	\$7,843.00	6054.00	\$6,054.00
4D.10	Supply and Install Precast 1200 Headwall	Each	2	5200.00	\$10,400.00	3920.00	\$7,340.00	1998.00	\$3,166.00	4322.00	\$9,244.00
4D.11	Raise Existing Culvert Headwall	Each	2	1670.00	\$3,340.00	1925.00	\$3,850.00	800.00	\$1,600.00	948.00	\$1,896.00
4D.12	Rock Protection	m ³	10	450.00	\$4,500.00	136.00	\$1,360.00	152.00	\$1,520.00	206.70	\$2,067.00
TOTAL						\$59,009.40		\$47,601.20		\$44,482.80	\$82,847.42
SCHEDULE E: OTHER ITEMS											
Soil Testing		PS	1	4000.00	\$4,000.00						
Grass and trim pavement box		m ²	6600.00							3.90	\$29,520.00
Grade, trim and prepare surface for sealing		m ²	8800.000							3.90	\$26,520.00
Line marking		Item	1.00							1312.00	\$1,312.00
TOTAL						\$4,000.00		\$0.00		\$0.00	\$54,352.00
DAY RATES						\$343,273.00		\$334,416.21		\$317,533.80	\$929,836.82
Front end loader						115.00				Rate	
Backhoe						110.00				80.00	
20t Excavator						110.00				97.00	
30t Excavator						135.00				140.00	
Body truck						150.00				130.00	
Bobcat						160.00				160.00	
10t flat drum roller						95.00				85.00	
Footpath roller						100.00				80.00	
Water truck						80.00				350/day	
Grader						110.00				85.00	
Labourer						135.00				120.00	
Plant operator						45.00				45.00	
Leading hand						55.00				50.00	
Ganger						65.00				47.00	
Site supervisor						60.00				47.00	
Project engineer						72.00				60.00	
Project manager						88.00				75.00	
Survey crew						85.00				80.00	
Truck driver										85.00	
Foreman											
Concrete Cutter											
Plumber											
Electrician											



NAME OF TENDERER				Northern Civil Earthworks		Downer EDI Works		Gairns Works		CEC	
DESCRIPTION - Buchanan Creek Road				UNIT	QTY	RATE	AMOUNT	RATE	AMOUNT	RATE	AMOUNT
SCHEDULE A - PRELIMINARIES											
5A.1	Contractor's site facilities establishment and dis-establishment	Item	1	2630.00	\$2,630.00	6500.00	\$6,500.00	14512.00	\$14,512.00	10281.00	\$10,281.00
5A.2	Control of erosion and sedimentation	Item	1	34950.00	\$3,495.00	1500.00	\$1,500.00	2913.00	\$2,913.00	10846.00	\$10,846.00
5A.3	Construction Safety Plan	Item	1	1500.00	\$1,500.00	1000.00	\$1,000.00	343.00	\$343.00	3197.00	\$3,197.00
5A.4	Provision for traffic including traffic management plan	Item	1	4500.00	\$4,500.00	7420.00	\$7,420.00	14410.00	\$14,410.00	9851.00	\$9,851.00
5A.5	As-constructed data including construction records	Item	1	8500.00	\$8,500.00	2500.00	\$2,500.00	2811.00	\$2,811.00	2821.00	\$2,821.00
5A.6	Insurance (including QI cover)	Item	1	6850.00	\$6,850.00			780.00	\$780.00	9591.00	\$9,591.00
5A.7	Ferry Fees	Item	1	4600.00	\$4,600.00			238.00	\$238.00	12638.00	\$12,638.00
TOTAL						\$32,400.00		\$18,920.00		\$35,667.00	
SCHEDULE B: EARTHWORKS											
5B.1	Clearing and grubbing	Item	1	2650.00	\$2,650.00	14577.00	\$14,577.00	2281.00	\$2,281.00	3291.00	\$3,291.00
5B.2	Embankment	m ³	320	12.50	\$4,000.00	37.5	\$12,037.50	30	\$9,600.00	12.1	\$3,872.00
5B.3	Excavation	m ³	280	12.50	\$3,500.00	22.22	\$5,221.60	18	\$5,040.00	18.4	\$5,152.00
5B.4	Rip and recompact subgrade	m ²	6800	3.40	\$29,920.00	2.74	\$24,112.00	2.80	\$22,880.00	6.80	\$58,080.00
5B.5	Shipping Topsoil (Provisional Quantity)	m ³	120	10.50	\$1,260.00	17.83	\$2,199.60	9.50	\$1,140.00	21.80	\$2,616.00
5B.6	Type 2 (Sub Type 2.5) (Provisional Quantity)	m ³	120	105.00	\$12,600.00	107.00		130.00		149.20	
5B.7	Embankment (Imported)	m ³	40	105.00	\$4,200.00			50.00	\$2,000.00	26.80	\$1,064.00
TOTAL						\$58,330.00		\$71,922.20		\$58,541.00	
SCHEDULE C - ROADWORKS											
5C.1	Supply and Spread 150 mm Base (Type 2.1) (including Turnouts and Accesses)	m ²	1320	184.00	\$242,880.00	\$114.97	\$151,780.40	101.00	\$133,320.00	198.40	\$261,898.00
5C.2	Supply and Spread 14mm Sealing Aggregate (Precoated) 50m2/m3	m ²	110	194.70	\$21,417.00	\$209.24	\$23,016.40		\$0.00	319.90	\$36,189.00
5C.3	Pitmasteral, Bitumen CL170 (5% Cutler), spray rate 1.8 l/m2, including supply of binder, including supply of additives	litre	15590	1.52	\$23,696.80	\$1.83	\$28,411.70	2.10	\$32,739.00	2.6	\$40,634.00
5C.4	Supply and Spread 10 mm Seal Aggregate (Precoated) 110m2/m3	m ²	80	211.00	\$16,880.00	226.77	\$18,141.60		\$0.00	392.30	\$31,384.00
5C.5	Bitumen CL170, spray rate 1.2 l/m2, including supply of binder, including supply of additives	litre	10580	1.54	\$16,292.40	1.85	\$17,424.00	2.10	\$22,176.00	2.80	\$27,496.00
5C.6	Pavement Markings, separation line	m	1200	6.00	\$7,200.00	1.80	\$2,160.00	2.80	\$3,480.00	1.50	\$1,800.00
5C.7	Take up and replace existing signs (AG-19) or (G9-18A)	Item	2	450.00	\$900.00	250.00	\$500.00	260	\$520.00	511.00	\$1,022.00
5C.8	Take up and replace existing signs (AG-4B)	Item	1	470.00	\$470.00	250.00	\$250.00	280.00	\$280.00	511	\$511.00
5C.9	Take up and replace existing signs (R4-1B)	Item	1	470.00	\$470.00	250.00	\$250.00	280.00	\$280.00	511.00	\$511.00
5C.10	Take up and replace existing guide posts (Provisional Quantity)	Item	30	125.00	\$3,750.00	80.00	\$2,400.00	38.00	\$1,140.00	263.70	\$8,511.00
TOTAL						\$333,828.20		\$241,314.10		\$193,896.00	
SCHEDULE F: OTHER ITEMS											
Soil Testing				PS	1	4500.00	\$4,500.00				
Grade and trim pavement box				m ²	8800.000					3.00	\$26,400.00
Grade, trim and prepare surface for sealing				m ²	8800.000					3.00	\$26,400.00
TOTAL						\$4,500.00		\$0.00		\$0.00	
						\$425,155.20		\$332,166.30		\$288,043.00	
DAY RATES											
Front end loader						\$425,155.20		\$332,166.30		\$288,043.00	
Backhoe											
20t Excavator											
30t Excavator											
Body truck											
Bobcat											
10t flat drum roller											
Footpath roller											
Water truck											
Grader											
Labourer											
Plant operator											
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