

# EDINBURGH TRAM NETWORK

**Monthly Project Report**  
**February 2010**



## Monthly Report Major Projects

**Project: Edinburgh Tram Network**

**Reporting Period: February 2010**

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VST, GF, BL, PM, CCS  
BL, PM, CCS

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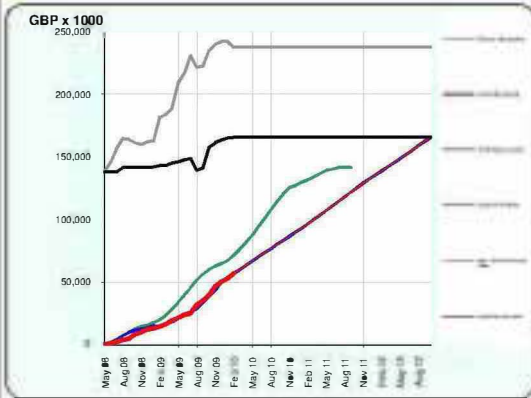
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TBA

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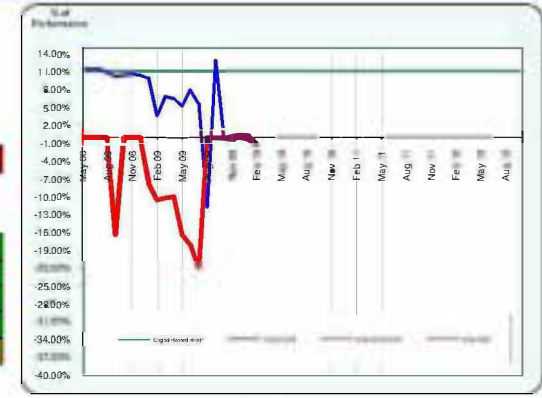
1.01 Project Overview Charts



Performance

	Contract Plan (Rev.1)	Revised Plan (actual)	Forecast (actual)	Actual	Status Figures
Construction start date	15-May-08			15-May-08	
Construction end date	16-Jul-11	05-Jun-12	02-Oct-12		3.9 month <span style="color:red">red</span>
Total contract value (GBP x 1000)	141,509			165,869	
Claims / Variations approved				31,588	
Claims / Variations not approved				71,656	
Performance		57,158		57,383	100.4% <span style="color:green">green</span>
Actual Cost to Date				58,103	101.3% <span style="color:green">green</span>
Result	11.07%	-0.94%	-0.94%	-1.26%	0.00% <span style="color:green">green</span>
Payment Status		70,465		68,064	96.6% <span style="color:green">green</span>
Av.Perf/mth: Rem. & act. 3mth			3,741	3,448	<span style="color:yellow">yellow</span>

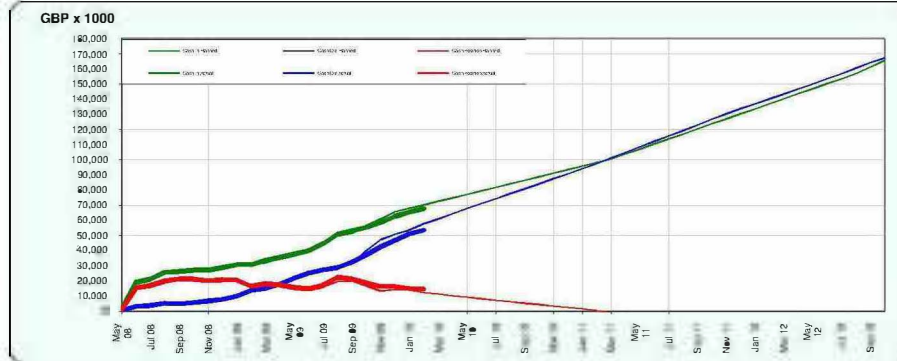
Project Key Figures



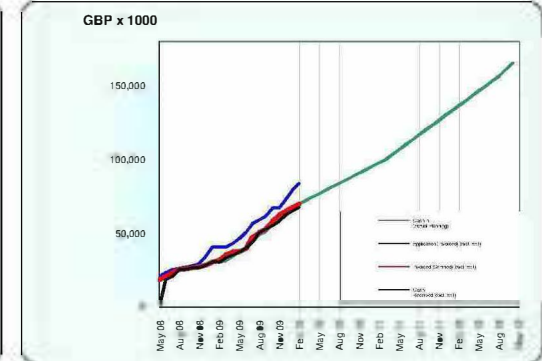
Project Result



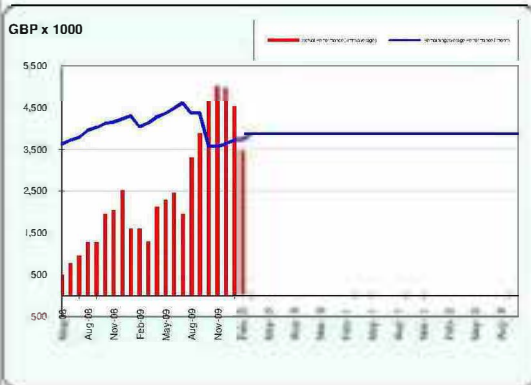
Project Cost



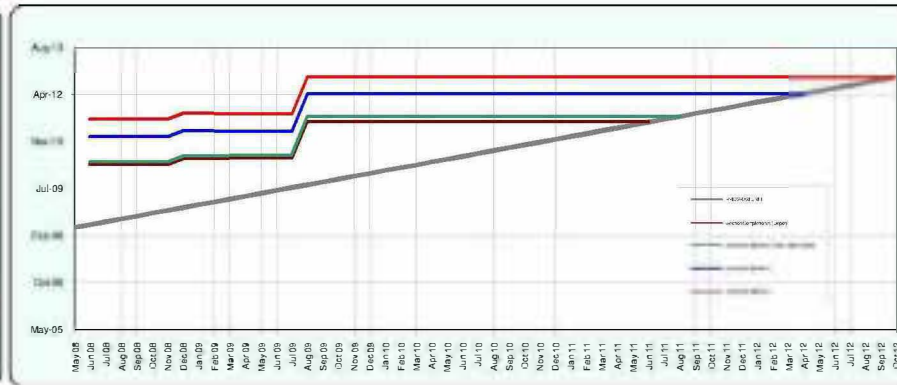
Cashflow



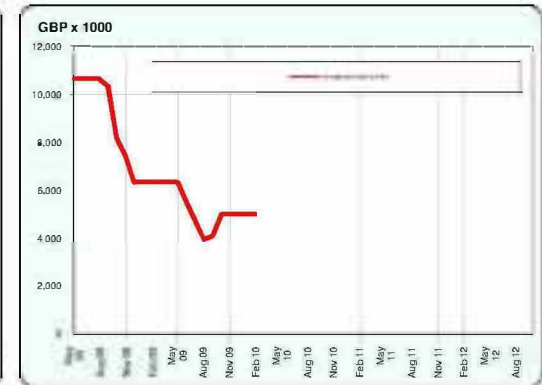
Payment Status




Remaining Performance / Resources



Milestone Trend Analysis



Contingencies vs Risks

Project: <b>Edinburgh Tram Network</b>		
as per: <b>28/02/2010</b>		
<b>1.02 Short note on Overview Charts</b>		
<b>1.2.1</b>	<b>Performance</b>	
<p>The current policy on site is still to limit work to elements which are unaffected by change or which are the subject of acceptable instructions from the client, such that in either case payment is secure.</p> <p>Works at Haymarket Viaduct, Corridor Haymarket to Russell Road Bridge, Russell Road Retaining Wall, Guided Busway, Edinburgh Park Bridge, A8 Underpass, Depot and Airport Tram Stop Section were performed on this basis. Instructed construction parts (Clause 80.15) at Carrick Knowe Bridge, Baird Drive Retaining Wall, Balgreen Retaining Wall, Depot Access Bridge and Drainage Section 7 are ongoing on demonstrable cost basis during dispute resolution in accordance with the contract.</p>		
<b>1.2.2</b>	<b>Project Cost</b>	
<p>The main cost overrun is due to cost and resource increases mainly caused by:</p> <ul style="list-style-type: none"> <li>- subcontracts (standby claims, additional works)</li> <li>- extension of time (staff, financial, running site)</li> <li>- consultants and design works</li> <li>- insurances and bonds</li> <li>- cost for legal fees</li> </ul> <p>Strict control measures on expenditures, employment etc. have been established as well as monthly cost control meetings with the relevant site management to increase awareness and effectiveness of cost control.</p>		
<b>1.2.3</b>	<b>Project Result (Forecast)</b>	
<p>The margin per February adds up to a cumulative result of -720,225 GBP (-1.26%).</p> <p>The forecast shows a result of -0.09% caused by the fluent situation of the project, i.e. no agreement on over 200 changes, time extension and fundamental contractual disagreements, i.e. Value Engineering, Provisional Sums. Under the current circumstances and expecting additional revenue as shown in the R&amp;O Sheet the project will result in a weighted margin of 8.97 %.</p> <p>To secure a low risk profile the contractual team has been strengthened to facilitate a positive outcome on the legal disputes. The offer for On-Street Supplemental Agreement was rejected by tie.</p>		
<b>1.2.4</b>	<b>Payment Status</b>	
<p>The payments from the client tie remain in time based on the agreed invoice application before the invoice submission.</p> <p>Certified net from the client: £ 70,217,427</p>		
<b>1.2.5</b>	<b>Cashflow</b>	
<p>The ETN project cashflow as per 28.02.2010 remains cash positive. Furthermore the achievement of milestones in timely manner (monthly cut off dates) needs to be clarified with the client to allow or enable an optimized cashflow forecast.</p> <p>Cash in net: £ 68,739,561 (incl. interest income) ./ net cash out £ 53,851,387 = £ 14,888,374 net cash balance</p>		
<b>1.2.6</b>	<b>Contingencies</b>	
<p>The value for in the tender estimated contingencies is stable about £ 5,019,788 (see attachment 3.01).</p>		
<b>1.2.7</b>	<b>Construction Programme</b>	
<p>Reporting is against the revised Contract Programme (Rev. 1) which shows the agreed 7 1/2 weeks extension of time (06 September 2011). In November tie confirmed an initial entitlement of 9 months relief on LD's (05 June 2012) and 6 months on prolongation costs for EOT 2, which shows a total delay of 13 months (02 October 2012). Further entitlement was assessed and submitted to tie (Contract Programme Rev. 3) showing an additional delay of 16 months up to January 2014 (total delay 68 mths).</p>		

## 1.03 General Information

<b>1.3.1</b>	<b>Short note on progress, events this month</b>		
	<p><u>Mobilisation</u> : Erection of Haymarket site office completed in January 2010.</p> <p><u>Design</u>: Production of civil and building drawings in accordance with the original design is 91% complete. In general earthworks, roads, track and structures drawings are available and drawings for the depot, substations and tramstops are being completed to support construction. Civil drawings, revised to incorporate Siemens design (trackform including vibration isolation, OLE foundations, substations) are largely complete. Drawings are being prioritised to support construction. Production of detail drawings for structures and other areas affected by client changes is held up, pending resolution of change evaluation with the client and issue of instructions to the designer. Resolution of change evaluation is the subject of intensive effort by BB. Resolution of technical interfaces and production of an integrated design, together with necessary system assurance and production of the case for safety, are ongoing within the design management team. SDS is progressing the remaining design in accordance with the acceleration programme to achieve an completion of the design in April/May 2010.</p> <p><u>Procurement</u> : Where work is available, subcontractors are working under limited notices to proceed but all our contractors are very concerned about the impact on their works of unresolved change issues.</p> <p><u>Construction</u> : Off-Street works have continued at Haymarket Viaduct, Corridor Haymarket to Russell Road Bridge, Edinburgh Park Bridge, Guided Busway, A8 Underpass, Depot and Airport Tram Stop Section to the extent possible without taking any/low risk for unagreed changes. Works on Russell Road Retaining Wall, Baird Drive Retaining Wall, Balgreen Retaining Wall, Carrick Knowe Bridge, Depot Access Bridge and Drainage Section 7 are continued in accordance with the Clause 80.15 instruction by tie.</p>		
<b>1.3.2</b>	<b>Significant extraordinary events</b>		
	Date	Description	Remarks
	10/02/2010 12/02/2010 25/02/2010	The following new disputes have been raised during February: - Track Drainage Section 7 - Depot Access Bridge - Tower Place Bridge	- by Infraco - by tie - by tie
<b>1.3.3</b>	<b>Recent important agreements with the Employer or instructions having significant consequences</b>		
	Date	Description	Remarks
	15/02/2010 18/02/2010	Change Orders on dispute items for: - Balgreen Road Retaining Wall - Russel Road Retaining Wall 4	
<b>1.3.4</b>	<b>Status on Major Unapproved Claims / Variations / Changes</b>		
	<p>553 changes notified to date - 68 by tie and 485 by Infraco. 70 of these have been superseded by further changes or withdrawn. 72 of these have a delay only impact and will not require an estimate. Therefore there are 411 changes requiring estimates. 246 changes are submitted. Of this 128 changes were confirmed by change order from tie. 165 estimates are to be submitted whereof 86 are awaiting design information. There are 23 estimates proceeding through the internal consortium approvals process.</p>		

### 1.04 Performance Sheet

1. General Information				2. Construction Period		Contract (Rev. 1)	Actual	Variance					
Client:	tie LIMITED			Construction start date	15-May-08	15-May-08	0 days						
Leadership:	BILFINGER BERGER UK LIMITED			Construction end date	16-Jul-11	05-Jun-12	325 days						
Currency:	GBP	Rp.	(all amounts without V.A.T.)	Total excl. Site Removal	38 month	49 month	2,796 %						
Rate of Exchange Top Sheet:	1 GBP =	1.25 EUR	Actual: 1.12 EUR	Expired construction time	21.4 month	21.4 month	56 %						
				Performance to date		57,382,885 GBP	35 %						
2. Total Contract Value				Total Previous Month		February 2010	Total Reporting Month						
Date of Contract													
Contract Value with Client (first evaluation)	141,508,815	(incl. SDS NovaAgree)		165,069,477	122.9%	799,625	165,869,102	123.5%					
Contract Value with Client (revised evaluation)	134,281,209	(incl. SDS NovaAgree)		0	0.0%	0	0	0.0%					
Contract Value with 3rd Parties (without interest)				165,069,477	122.9%	799,625	165,869,102	123.5%					
3a. Provisional Sums				Total Previous Month		February 2010	Total Reporting Month						
SDS Novation Agreement Provisional Sums				1,973,489	1.5%	147,926	2,121,415	1.6%					
Defined Provisional Sums				168,192	0.1%	13,297	181,489	0.1%					
Undefined Provisional Sums				571,483	0.4%	0	571,483	0.4%					
3b. Claims and Variations				Total Previous Month		February 2010	Total Reporting Month						
Claims and Variations approved (= Total VOs Approved - 3a. Provisional Sums)				26,650,105	19.8%	2,063,402	28,713,507	21.4%					
Claims and Variations submitted but not approved yet				49,680,949	37.0%	-5,948,570	43,732,379	32.6%					
Claims and Variations under preparation				27,134,908	20.2%	788,370	27,923,278	20.8%					
4a. Performance				Total Previous Month		February 2010	Total Reporting Month						
Performance for Actual Contract Value with Client				53,305,984	32.29%	4,076,901	57,382,885	34.60%					
Performance for 3rd Parties (without interest)				0	0.00%	0	0	0.00%					
Total Performance to Date				53,305,984	32.29%	4,076,901	57,382,885	34.60%					
Remaining Performance to Date				111,763,493	67.71%		108,486,217	65.40%					
Actual Planned Performance (Planned Performance per report date - Performance Last Month)				53,305,984	32.29%	3,852,120	57,158,104	34.46%					
4b. Cost				Total Previous Month		February 2010	Total Reporting Month						
Actual Cost at Reporting Date				53,464,242	32.39%	4,638,868	58,103,110	35.03%					
5. Result				Total Previous Month		February 2010	Total Reporting Month						
Date of Contract													
Planned Result for Contract with Client (first evaluation)				15,670,750	11.07%								
Planned Result for Contract with Client (revised evaluation)				8,443,144	6.29%	11,997,626	7.27%	-1,269,922	10,727,704	6.47%			
Actual Result at Reporting Date						-158,258	-0.30%	-561,967	720,225	-1.26%			
Forecast Result at the End of Contract						758,629	0.46%	-2,315,994	-1,557,365	0.94%			
Weighted Result at the End of Contract (Likely Case)						16,053,263	9.00%	257,612	16,310,874	8.97%			
6. Invoices, Payment and Bank account				Total Previous Month		February 2010	Total Reporting Month						
Application to the client - excl. VAT	incl. Ret. Money	0	0.00%	79,726,914	48.30%	4,529,095	84,256,008	50.80%					
Certified by the client (invoice) - excl. VAT	incl. Ret. Money	0	0.00%	68,063,524	41.23%	2,153,902	70,217,427	42.33%					
Cash in from the client - excl. VAT	excl. Ret. Money	0	0.00%	65,718,860	39.81%	2,344,664	68,063,524	41.03%					
Cash in from 3rd Parties - excl. VAT				0	0.00%	0	0	0.00%					
Interest income				668,222	1.25%	7,815	676,037	1.18%					
Cash out (excl. VAT)				51,191,614	31.01%	2,659,573	53,851,187	32.47%					
Net Liquidity	creditle	0	0%	15,195,467	9.21%	-307,093	14,888,374	8.98%					
7. Subcontractor Work (incl. Design)				Total Previous Month		February 2010	Total Reporting Month						
Total Portion of Subcontractor Budget				60,353,024	(incl. SDS) 44.95%	109,575,126	68.38%	1,672,964	111,248,090	67.07%			
Total Amount of signed Subcontracts incl. approved Variation Order				0	0.00%	0	0	0	0.00%				
Total Subcontractor Result to date				0	0.00%	0	0	0	0.00%				
Actual Subcontractor Costs to date (incl. Accruals)				0	0.00%	0	0	0	0.00%				
Therefrom invoiced to date				0	0.00%	0	0	0	0.00%				
8. Actual Forecast for Performance and Result				in TSD GBP									
Performance	Original planned				Actual / Forecast					Yearly Forecast			
	2008	2009	2010	2011	2008	2009	2010	2011	2012	Performance and Result in 2008			
Jan		1,706	2,786	2,346	584	2,632	3,207	3,241		Performance	12,940,002	7.8%	
Feb		2,526	4,026	2,026	1,739	4,077	3,515	3,237		Result	2	0.00%	
Mrz		3,526	5,026	2,526	1,579	3,245	3,644	3,243		Performance and Result in 2009			
Apr		4,526	5,276	2,526	3,035	3,422	3,581	3,240		Performance	37,733,662	22.7%	
Mai	855	5,776	6,026	2,526	500	2,266	3,265	3,561	3,304	Result	-2	0.00%	
Jun	1,355	5,776	6,526	1,026	1,052	2,049	3,270	3,647	3,272	Performance and Result in 2010			
Jul	2,375	5,776	6,526	1,026	1,331	1,531	3,244	3,580	3,534	Performance	39,436,522	23.8%	
Aug	2,855	6,026	6,526		1,465	6,312	3,285	3,547	3,543	Result	0	0.00%	
Sep	3,055	4,626	6,526		1,047	3,783	3,256	3,644	3,498	Performance and Result in 2011			
Okt	2,855	4,026	6,526		3,340	3,931	3,205	3,661	3,112	Performance	42,533,498	25.6%	
Nov	1,535	2,526	5,026		1,725	7,288	3,277	3,576		Result	0	0.00%	
Dez	1,446	1,866	1,706		2,481	3,635	3,256	3,368		Performance and Result in 2012			
Total	16,334	48,678	62,498	13,999	12,940	37,734	39,437	42,533	33,225	Performance	33,225,419	20.0%	
Linear Calculation				total: 165,869					Total Performance and Result		Result	-1,557,365	-0.94%
Edinburgh,	[Redacted]			Edinburgh,	[Redacted]			Vogt. Commercial Manager					
Place and Date	M Foerder, Project Director			Place and Date									

Project: **Edinburgh Tram Network**  
as per: **28/02/2010**



**1.05 Weighted Result with Chances and Risks**

Revenue		best case	likely case	worst case	Cost		best case	likely case	worst case
		' GBP	' GBP	' GBP			' GBP	' GBP	' GBP
1	Actual Contract Value according to Job Site Estimate incl. Approved Integrated Changes	165,869	165,869	165,869	1	Actual Cost Forecast according to Job Site Estimate incl. cost for Integrated Changes	-167,426	-167,426	-167,426
2	Unapproved, but in Job Site Estimate Integrated Changes	3,593	2,943	2,506	2	Unapproved, but in Job Site Estimate Integrated Changes			
3	Total unapproved Changes	3,593	2,943	2,506	3	Total unapproved Changes	0	0	0
4.2					4.2				
4.3					4.3				
4.4					4.4				
4.5					4.5				
4.6					4.6				
4.7					4.7				
4.8					4.8				
4.9					4.9				
4.10					4.10				
4.11					4.11				
4.12					4.12				
4.13					4.13				
4.14					4.14				
4.15					4.15				
4.16					4.16				
4.17					4.17				
4.18					4.18				
4.19					4.19				
4.20					4.20				
Σ 4.1 : 4.20	Risks not included in JSE	0	0	0	Σ 4.1 : 4.20	Risks not included in JSE	0	0	0
5.1	Back Flow of Value Engineering	3,425	2,925	0	5.1	Uninsured Economic Losses	2,200	1,000	0
5.2	Change Order EOT2b	7,200	6,600	3,000	5.2	Interest Income	1,100	1,000	900
5.3	NET Revenue OSSA	3,400	3,400	2,000	5.3				
5.4					5.4				
5.5					5.5				
5.6					5.6				
5.7					5.7				
5.8					5.8				
5.9					5.9				
5.10					5.10				
5.11					5.11				
5.12					5.12				
5.13					5.13				
5.14					5.14				
5.15					5.15				
5.16					5.16				
5.17					5.17				
5.18					5.18				
5.19					5.19				
5.20					5.20				
Σ 5.1 : 5.20	Chances	14,025	12,925	5,000	Σ 5.1 : 5.20	Chances	3,300	2,000	900
6 =1+3+4+5	Forecast Final Revenue	183,488	181,737	173,375	6 =1+3+4+5	Forecast Final Costs	-164,126	-165,426	-166,526

	Costs	best case	likely case	worst case
Forecast Final Result ( <b>best case</b> ) (Revenue Best Case + Forecast Cost all cases)	Revenue Costs <b>Result</b>	183,488 -164,126 <b>19,361</b>		
% Gross Margin based on Revenue Best Case	Revenue: 183,488	10.55%		
Forecast Final Result ( <b>most likely case</b> ) (Revenue most likely case + Forecast Costs all cases)	Revenue Costs <b>Result</b>		181,737 -165,426 <b>16,311</b>	
% Gross Margin based on Revenue Likely Case	Revenue: 181,737		8.97%	
Forecast Final Result ( <b>worst case</b> ) (Revenue worst case + Forecast Costs all cases)	Revenue Costs <b>Result</b>			173,375 -166,526 <b>6,849</b>
% Gross Margin based on Revenue Worst Case	Revenue: 173,375			3.95%
Gross Margin previous month ( <b>most likely case</b> )		10.59%	9.00%	4.70%

Project: **Edinburgh Tram Network**  
as per: **28/02/2010**



**2.01 Cost Reconciliation Sheet**

**see following pages**



Project: GB-2006-1001AK20 Edinburgh Tram 2010\_02
Reporting Month: 20. R-P. 02/2010

COST RECONCILIATION & FORECAST FINAL (REMEASURED CONTRACT)

Currency: GBP

Table with columns: WORK / COST CODES, TO DATE, BUDGET CONTRACT AND EXECUTION, FORECAST FINAL. Includes rows for Evaluation with Activity Model: Rev.3\_20090908 and various sub-sections like Section 1 - Site Cost, Section 1 - Small Subcontracts - TBA, etc.

Project: GB-2006-1001AK20 Edinburgh Tram 2010\_02  
Reporting Month: 20. R.-P. 02.2010

**COST RECONCILIATION & FORECAST FINAL (REMEASURED CONTRACT)**

Currency: GBP

WORK / COST CODES		TO DATE								BUDGET CONTRACT AND EXECUTION					FORECAST FINAL					
Work- / Cost Code	Description	Actual Cost	Accruals Deferrals	Actual Cost with Accruals 5=3+4	Actual Allowable incl. agreed VO's	Allowable for unapproved VO's 7	Variance to Date 8=(6+7)-5	Revised DJC (QxL)C-Rate 9	Variance to Date 10= 9-5	Budget Original WQty. 14	Budget Orig. Contr. with AQty. 15	Budget Agreed VO's AQty. 16	Budget unappr. VO's AQty. 17	Budget Total AQty. 18=15+16+17	Revised DJC AQty. 19	% Complete 20=9/19	Cost to Complete (AQ-IQ) 21=19-9	Forecast Final Cost 22=5+21	Forecast Final Variance 23= 18-22	Projected Variance (linear) 24=18/20
<b>Total Cost Incl. Prime Cost Sums</b>		53,520,889	4,582,221	58,103,110	47,377,777	1,346,090	-9,379,245	57,921,555	-181,555	125,838,065	125,838,065	29,303,334	2,685,796	157,827,195	167,426,468	34.6 %	109,504,913	167,608,023	-9,780,822	-27,107,641
<b>Prime Cost Sums 0 / 0</b>																				
<b>Total Cost without Prime Cost Sums</b>		53,520,889	4,582,221	58,103,110	47,377,775	1,346,090	-9,379,241	57,921,555	-181,555	125,838,065	125,838,065	29,303,334	2,685,796	157,827,195	167,426,468		109,504,913	167,608,022		

**REMEASURED CONTRACT:**

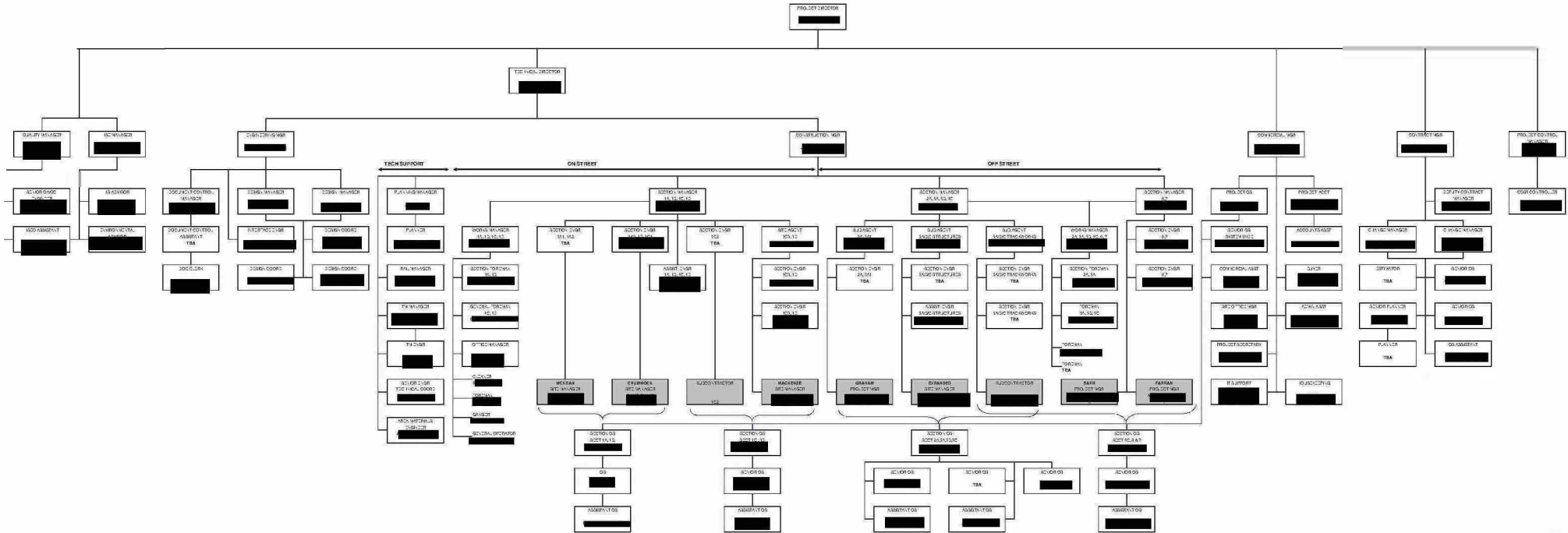
Gross Margin original Contract and agreed VO's (PF = 0.9907, PFB = 1.0691)

<b>Total Cost without Prime Cost Sums</b>		58,103,110	47,377,775	57,921,555	125,838,065	125,838,065	29,303,334	2,685,796	155,141,399	167,426,468	167,608,023
Gross Margin		3,273,804	3,273,804	-588,670	15,670,750	8,443,144	2,284,560	10,737,704	-1,557,365	-1,738,920	
Gross Margin in % of Performance		6.46 %	6.46 %	-0.94 %	11.07 %	6.59 %	7.13 %	6.47 %	-0.94 %	-1.05 %	
<b>Performance without Prime Cost Sums</b>		50,651,579	57,382,885	57,382,885	141,508,815	134,281,209	31,587,894	2,904,241	165,869,103	165,869,103	
<b>Actual Cost to date</b>		58,103,110	58,103,110	58,103,110							
Gross Margin to date		-7,451,531	-7,451,531	-720,225							
Gross Margin to date in % of Performance		-14.71 %	-14.71 %	-1.26 %							
<b>Performance Prime Cost Sums</b>											
Total Performance		50,651,579	57,382,885	57,382,885	141,508,815	134,281,209	31,587,894	2,904,241	165,869,103	165,869,103	
Revenue according WBS											

Gross Margin (weighted) original Contract, agreed and valued VO's (PF = 1.0080, PFB = 1.0694)

<b>Total Cost without Prime Cost Sums</b>		48,723,865	57,921,555	57,921,555	125,838,065	125,838,065	29,303,334	2,685,796	157,827,195	167,426,468	167,608,023
Gross Margin		3,381,436	463,372	463,372	15,670,750	8,443,144	2,284,560	10,946,149	1,346,876	1,165,331	
Gross Margin in % of Performance		6.49 %	0.79 %	0.79 %	11.07 %	6.49 %	0.80 %	6.49 %	0.80 %	0.69 %	
<b>Valued Performance without Prime Cost Sums</b>		52,105,301	58,384,927	58,384,927	141,508,815	134,281,209	31,587,894	2,904,241	168,773,344	168,773,344	
<b>Actual Cost to date</b>		58,103,110	58,103,110	58,103,110							
Gross Margin to date		-5,997,809	-5,997,809	-5,997,809							
Gross Margin to date in % of Performance		-11.51 %	-11.51 %	-10.27 %							
<b>Performance Prime Cost Sums (incl. valued performance)</b>											
Total Performance (incl. valued performance)		52,105,301	58,384,927	58,384,927	141,508,815	134,281,209	31,587,894	2,904,241	168,773,344	168,773,344	
Revenue according WBS (VO's valued)											
Revenue according WBS (VO's valued by 100%)											

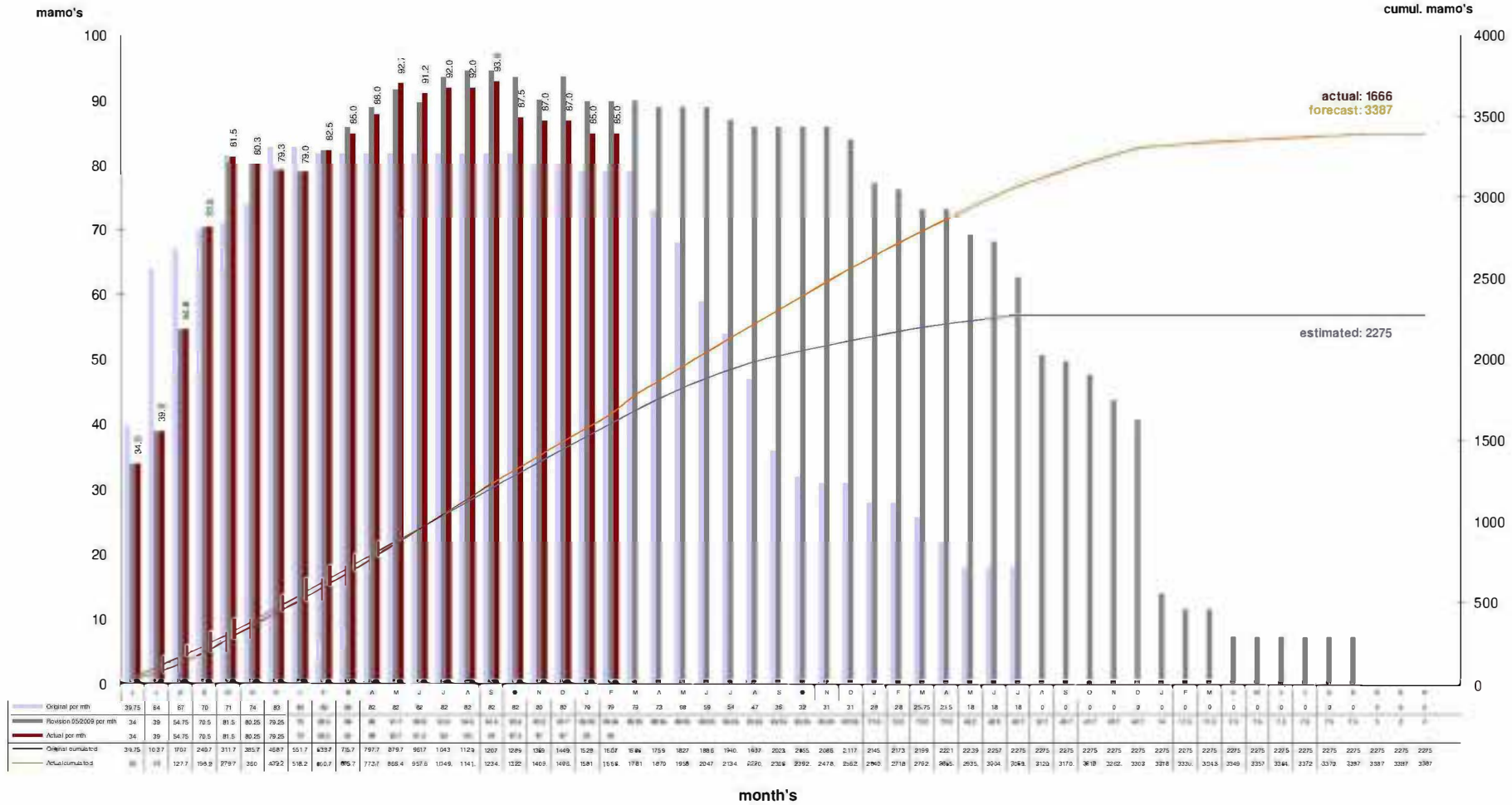
2.05 Organisation Chart



EDINBURGH TRAM NETWORK  
CIVIL WORKS TEAM

**2.06 Staff Chart**

**Staff memo performance Edinburgh Tram**







Project: **Edinburgh Tram Network**  
 as per: **28/02/2010**



2.08a Approved Change Orders

INTC	TCO	DRP	Prov Sum	Section	Activity	QS	Description	Date of Approval	Budget	Estimate					Remarks
										Budget for performance design & estimate	Other Prelims 11.8%	Consortium Fee 7.4%	OH&P Margin	Margin 11%	
				SDS-Graham	61/66	GAn	Unforeseen Ground Conditions at Haymarket Viaduct	22/10/09	94,317.38	68,649.54	13,215.07	5,588.06	5,864.77	7.28%	
			UPS			Sky	Discovery of concrete encased lighting cable - Chalmers 339 RHS	22/10/09	1,932.00	1,932.00	212.29	5.00	12.92	3.09%	
							TRO Presentations by SDS to the public during September 2008	04/11/09	23,480.00	20,000.00		1,480.00	2,000.00	8.52%	
				SDS-Ferrans	62/66	GAn	DESIGN ONLY to Amend line of route design section 5 (Batch 5/22)	13/11/09	5,368.54	4,251.90	887.13	381.33	425.19	7.92%	
						GAn	Existing Ground levels at Edinburgh Park Bridge	23/11/09	61,951.30	47,265.35	5,932.80	2,931.62	4,721.44	7.63%	
				Depot	63	GAn	Additional IFC changes to depot access road	13/11/09	78,674.86	57,263.81	7,389.33	4,661.26	6,726.31	7.28%	
			DRP				IFC Drawing Change Haymarket Viaduct	04/11/09	96,173.00	70,000.00	13,475.00	5,698.00	7,000.00	5.28%	Settlement reached during Internal DRP
			DRP	EOT1	64/65/67		IFC dates entered into the Schedule Part15 (Sect1A-1D)	04/11/09	2,225,000.00		1,415,767.50	605,757.50	202,475.00	9.10%	Settlement reached in Mediation
				Ferrans			IFC Drawing Changes - Drainage - Gogarburn to Airport	10/02/10							CO Value not issued - referred to Dispute Resolution Procedure
				5C		GAn	IFC Drawing changes - Depot Access Bridge	15/02/10							CO Value not issued - referred to Dispute Resolution Procedure
			DRP				IFC Drawing Change Depot Drive RTW								CO Value not issued - referred to Dispute Resolution Procedure
							Alteration of Drainage at Eastfield Avenue to avoid a clash with Utilities	13/11/09	1,084.50	903.64		15.50	90.36	8.36%	
							not issued yet								
							Edinburgh Park Bridge (S27) - South Abutment Base Formation	24/11/09	9,494.75	7,202.65	1,131.29	443.35	717.46	7.56%	
							not commencing								
				1A-1	61	Sky	TN COB - Lindsay Road Retaining Wall Cost Estimate	15/01/10	494,065.00	352,329.09	57,823.95	28,579.59	35,232.97	7.21%	
						GAn	Maintain Truss and C & W services and dismantle water main at A8 Underpass	17/12/09	20,324.54	16,793.8	2,847.73	1,204.38	1,478.86	7.29%	
				Ferrans	62	GAn	IFC Drawing changes Gogarburn RTWs 14A, 15A, 15B, 15C	22/10/09	141,188.6	102,765.01	19,782.24	8,365.06	10,276.31	7.28%	
				Graham	61	GAn	Request for information to deal with Japanese Knotweed - Retaining Wall W4	22/10/09	24,282.78	18,000.58	3,150.10	1,332.04	1,800.01	7.41%	
						Sky	Lichfield Depot Disruption	02/01/10	8,640.26	6,404.93	1,120.86	471.39	640.59	7.41%	
						Sky	George Street Emergency road closure	25/01/10	1,516.30	1,124.02	196.50	88.50	114.00	7.50%	
							Gogar Depot Public Transport proposals GRIP options 4B & 4C2	13/01/10	50,000.00	42,589.44		3,151.62	4,258.94	8.52%	
			DRP	Graham			IFC Drawing Change Russell Road RTW Wall 4	18/02/10	1,461,857.21	1,083,659.90	189,640.48	80,190.83	108,365.91	7.41%	
							Excavate and replace existing SO material within existing utility trenches.	02/01/10	1,065.68	902.05		114.41	90.20	8.46%	80%
						GAn	Carry out Scottish Power Diverter at Gogar Roundabout	01/02/10	70,163.35	51,857.54	8,220.92	3,899.13	5,185.76	7.39%	
				Graham	61	GAn	Haymarket Station - Network Rail Access Driveway	09/02/10	2,814.69	2,046.50	365.34	154.40	208.65	7.41%	
						GAn	Additional manhole requirement - Section 5B	02/02/10	7,085.71	5,157.39	888.83	414.74	512.74	7.29%	
						GAn	Additional abutment at Carnok Knowe North Abutment	04/02/10	8,500.00	284.58	54.78	88.99	28.43	3.33%	
				DRP	68/6A		Power Supply Ducts Section 6	15/09/10	13,297.28	9,678.49	1,863.11	881.85	967.85	7.33%	
			DRP				IFC Drawing Change Balgreen Road Retaining Wall	15/02/10	288,574.22	217,317.92	41,833.85	17,689.75	21,731.79	7.50%	Settlement reached during Internal DRP
			DRP	EOT2a	64/65/67		Issue of MUDFA Programme Revision 8	13/11/09	6,600,000.00		4,199,580.00	1,799,920.00	600,600.00	9.10%	
<b>Changes TOTALS:</b>									<b>31,587,873.16</b>	<b>18,500,842.71</b>	<b>7,935,919.98</b>	<b>2,866,571.01</b>	<b>2,384,558.58</b>	<b>7.23%</b>	

Sum=Total budget approved changed orders  
**29,313,333.69**

	DPS			Thereof Defined Provisional Sums	181,489.03
	UPS			Thereof Undefined Provisional Sums	571,482.50
	PS			Provisional Sums	752,971.53

















Project: **Edinburgh Tram Network**

as per: **28/02/2010**



**2.09 Payment Status**

PROGRESS			INVOICE							PAYMENT			
PERIOD	PROGRESS	No.	Application	Invoiced (Accepted)	Variance Certified	ADVANCE PAYMENT %	RETENTION MONEY %	OTHERS (%)	TOTAL	DUE DATE	RECEIVED ON	excluding VAT	REMARKS
Actual Performance										0			
1	MONTH	500,000	21,389,899	19,100,000	-2,289,899	0	0	0	19,100,000	30/06/2008		0	
May-08	ACCUML.	500,000	21,389,899	19,100,000	-2,289,899	0	0	0	19,100,000			0	
2	MONTH	1,052,000	2,414,100	2,289,899	-124,201	0	0	0	2,289,899	15/07/2008	04/06/2008	19,100,000	
Jun-08	ACCUML.	1,552,000	23,803,998	21,389,899	-2,414,100	0	0	0	21,389,899			19,100,000	
3	MONTH	-1,552,000	-23,803,998	-2,414,100	0	0	0	0	0	11/06/2008	04/06/2008	2,289,899	
									0			21,389,899	
4	MONTH	4,348,256	26,720,722	25,784,259	-936,463	0	0	0	25,784,259	11/09/2008	01/08/2008	4,394,360	
Aug-08	ACCUML.	4,348,256	26,720,722	25,784,259	-936,463	0	0	0	25,784,259		29/08/2008	25,784,259	
5	MONTH	1,046,634	971,518	739,994	-231,524	0	0	0	739,994	09/10/2008	29/08/2008	739,994	
Sep-08	ACCUML.	5,394,889	27,692,240	26,524,252	-1,167,988	0	0	0	26,524,252			26,524,252	
6	MONTH	3,339,638	705,826	809,079	103,253	0	0	0	809,079	14/11/2008	31/10/2008	809,079	
Oct-08	ACCUML.	8,734,527	28,398,066	27,333,331	-1,064,735	0	0	0	27,333,331			27,333,331	
7	MONTH	1,724,612	1,584,058	625,106	-958,952	0	0	0	625,106	23/12/2008		0	
Nov-08	ACCUML.	10,459,129	29,982,124	27,958,437	-2,023,688	0	0	0	27,958,437			27,333,331	
8	MONTH	2,480,873	5,108,480	1,116,659	-3,991,821	0	0	0	1,116,659	22/01/2009	08/12/2008	1,741,764	
Dec-08	ACCUML.	12,940,002	35,090,604	29,075,095	-6,015,509	0	0	0	29,075,095		23/12/2008	29,075,095	
9	MONTH	584,252	5,961,121	1,858,032	-4,102,089	0	0	0	1,858,032	03/03/2009	30/01/2009	1,858,032	
Jan-09	ACCUML.	13,524,254	41,050,724	30,933,127	-10,117,597	0	0	0	30,933,127			30,933,127	
10	MONTH	1,739,311	0	1,288,964	0	0	0	0	1,288,964	19/03/2009		0	
Feb-09	ACCUML.	15,263,565	41,050,724	32,222,091	-8,828,633	0	0	0	32,222,091			30,933,127	
11	MONTH	1,578,820	0	3,532,588	0	0	0	0	3,532,588	03/04/2009	04/03/2009	2,979,868	
Mar-09	ACCUML.	16,842,385	41,050,724	35,754,680	-5,296,045	0	0	0	35,754,680	17/04/2009	17/03/2009	33,912,994	
12	MONTH	3,034,909	2,429,613	2,227,854	-201,759	0	0	0	2,227,854	14/05/2009	14/04/2009	1,841,685	
Apr-09	ACCUML.	19,877,294	43,480,338	37,982,534	-5,497,804	0	0	0	37,982,534			35,754,680	
13	MONTH	2,268,403	3,383,746	0	-3,383,746	0	0	0	0	03/06/2009	11/05/2009	2,227,854	
May-09	ACCUML.	22,145,697	46,864,083	37,982,534	-8,881,549	0	0	0	37,982,534			37,982,534	
14	MONTH	2,048,589	4,050,740	2,264,088	-1,786,652	0	0	0	2,264,088	02/07/2009	03/06/2009	2,264,088	
Jun-09	ACCUML.	24,194,286	50,914,824	40,246,623	-10,668,201	0	0	0	40,246,623			40,246,623	
15	MONTH	1,531,274	6,303,137	7,760,338	1,457,201	0	0	0	7,760,338	27/10/2009	05/10/2009	4,560,331	received: Regular & Phase 1B
Jul-09	ACCUML.	25,725,560	57,217,961	48,006,960	-9,211,001	0	0	0	48,006,960	05/08/2009	28/07/2009	44,806,960	paid: Invoice No 18 & 19
16	MONTH	6,312,045	2,177,338	3,020,906	843,567	0	0	0	3,020,906	25/08/2009	05/08/2009	6,220,906	paid: Phase 1B
Aug-09	ACCUML.	32,037,605	59,395,299	51,027,866	-8,367,433	0	0	0	51,027,866		25/08/2009	51,027,866	paid: Regular Invoice
17	MONTH	3,782,691	2,666,077	2,400,346	-265,731	0	0	0	2,400,346	25/09/2009		2,400,346	
Sep-09	ACCUML.	35,820,296	62,061,377	53,428,212	-8,633,165	0	0	0	53,428,212			53,428,212	
18	MONTH	3,930,846	5,478,014	5,379,520	-98,494	0	0	0	5,379,520	12/11/2009	27/10/2009	2,194,682	
Oct-09	ACCUML.	39,751,142	67,539,390	58,807,732	-8,731,659	0	0	0	58,807,732			55,622,894	
19	MONTH	7,287,813	0	4,173,384	4,173,384	0	0	0	4,173,384	15/10/2009	11/11/2009	3,184,837	
Nov-09	ACCUML.	47,038,955	67,539,390	62,981,116	-4,558,274	0	0	0	62,981,116			58,807,732	
20	MONTH	3,634,709	6,183,662	2,737,744	-3,445,918	0	0	0	2,737,744	14/01/2010	11/12/2009	4,173,384	
Dec-09	ACCUML.	50,673,664	73,723,052	65,718,860	-8,004,192	0	0	0	65,718,860			62,981,116	
21	MONTH	2,632,320	6,003,862	2,344,664	-3,659,197	0	0	0	2,344,664	10/02/2010	13/01/2010	2,737,744	
Jan-10	ACCUML.	53,305,984	79,726,914	68,063,524	-11,663,390	0	0	0	68,063,524			65,718,860	
22	MONTH	4,076,901	4,529,095	2,153,902	-2,375,192	0	0	0	2,153,902	16/03/2010	12/02/2010	2,344,664	
Feb-10	ACCUML.	57,382,885	84,256,008	70,217,427	-14,038,582	0	0	0	70,217,427			68,063,524	
												<b>68,063,524</b>	
												(w/o Advance Payment)	
												(with Advance Payment)	

Project: **Edinburgh Tram Network**as per: **28/02/2010**

## 2.11 Monthly Report on Quality Management

### 1. Audits

#### 1.1 Internal Audits

Audit-No	Date	NCRs raised	NCRs Closed-Out	%	Corrective Actions

#### 1.2 External Audits (e.g. by Client / BSI)

Audit-No	Date	NCRs raised	NCRs Closed-Out	%	Corrective Actions
TSA-09-01 (System Eng / Integration)	28/08/2009	4	2	50%	
TSA-09-03 (Design Assurance Process)	01/10/2009	3	1	33%	1 Observation
tie Audit Drainage ITP Gogar Depot	27/01/2010	0	0	0%	
tie Audit Design Assurance	27/28/01/2010				Awaiting Report

### 2. Inspection and Testing

Section	ITPs				Non-Audit NCRs				
	Planned	In-Production	Completed	% Comp'd	Raised		Closed out		
					Total	Month	Total	Month	%
1A	122	0	0	0%	1	0	1	1	100%
1B					0	0	0	0	0%
1C	13	12	12	92%	11	0	7	1	64%
1D	31	31	29	94%	4	0	2	0	50%
2	16	1	0	0%	4	0	3	0	75%
5A	12	0	0	0%	0	0	0	0	0%
5B	54	15	1	2%	12	1	6	0	50%
5C	27	2	0	0%	2	1	1	0	50%
6	37	20	0	0%	14	1	8	2	57%
7	68	10	10	15%	5	0	3	1	60%
<b>System NCRs (non-audit)</b>					<b>53</b>	<b>3</b>	<b>31</b>	<b>5</b>	<b>58%</b>
<b>Cancelled</b>					<b>3</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>100%</b>

### 3. Further quality-related events during this month

(please describe shortly)

The BSC Consortium & BB Quality Managers position has been filled by Oliver McLoughlin. All 19 BB ITPs reviewed by tie are now 'Level A – No Objection status', whilst another 2 (from Barr) are currently with tie for review. Siemens (BAM) ITP for Track Installation is 'Level B' status and the ITP for 'OLE Pole Erection' reviewed by tie and is now Level B – with comments for Siemens to action. Princes Street completed ITPs have been handed to BB for review and signatures by our sub-contractors. A tie Audit on Princes Street ITPs was held on 11th February 2010, an agreement was reached during the audit that tie would re-visit and complete their audit once the ITPs and As Builts were complete. tie will not contemplate signing off Princes Street until a full audit of documentation of works carried out has taken place. A Siemens/BB Princes Street lessons learned follow up meeting was held on 12th February 2010, minutes produced and distributed. An ITP Planning Execution and Packaging Procedure has been created and distributed. A tie Audit was carried out on 27th January 2010 at Section 6 the Depot on the Drainage ITP, report from tie produced, favourable comments, and no major findings. Discussions are still ongoing and require clarification from tie/CEC in regards to introducing a three tier 'Work Site Completion Certificate' process: Interim certificate - to say works site handed over with safety concerns met; Certificate for once snagging completed since handover; and Final certificate for completion of all works.



## 2.12 Safety Information System - SIS

Month	February	Prep by	Contact phone or email
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Site or office and Unit <sup>2</sup> Edinburgh Tram Network	BB <sup>1</sup> Managers and Supervisors	BB <sup>1</sup> workers	JV people & Sub-contractors <sup>3</sup>	Agency / hired people under BB control	Total	Others, eg public
Number	78		372	19	<b>469</b>	
Hours <sup>2</sup>	15,366		61,497	3,743	<b>80,606</b>	

**Accidents in this month** (if no accidents but a previous accident person is still away from work, write in days lost but leave accident space clear)

Fatal					<b>0</b>	
Serious: over 3 days off work					<b>0</b>	
Travelling / commuting 3D+					<b>0</b>	
LTI: 1 -3 days off work					<b>0</b>	
1st Aid only					<b>0</b>	
Days lost <sup>6</sup> for this months accidents and any from previous accidents					<b>0</b>	

**Incidents**

Causing damage					<b>0</b>	
Environment Ecology / Pollution					<b>0</b>	
Not work related eg flood, bomb scare					<b>0</b>	
Near misses, hazards reported					<b>3</b>	

**Details of this months Fatal, Serious accidents (3d+) or serious incidents, and any previous non-RTW accidents**

IP Name or incident location/Ref	Employer	Injury / Incident	date of acc / inc	RTW date <sup>4</sup>	Days lost until RTW date

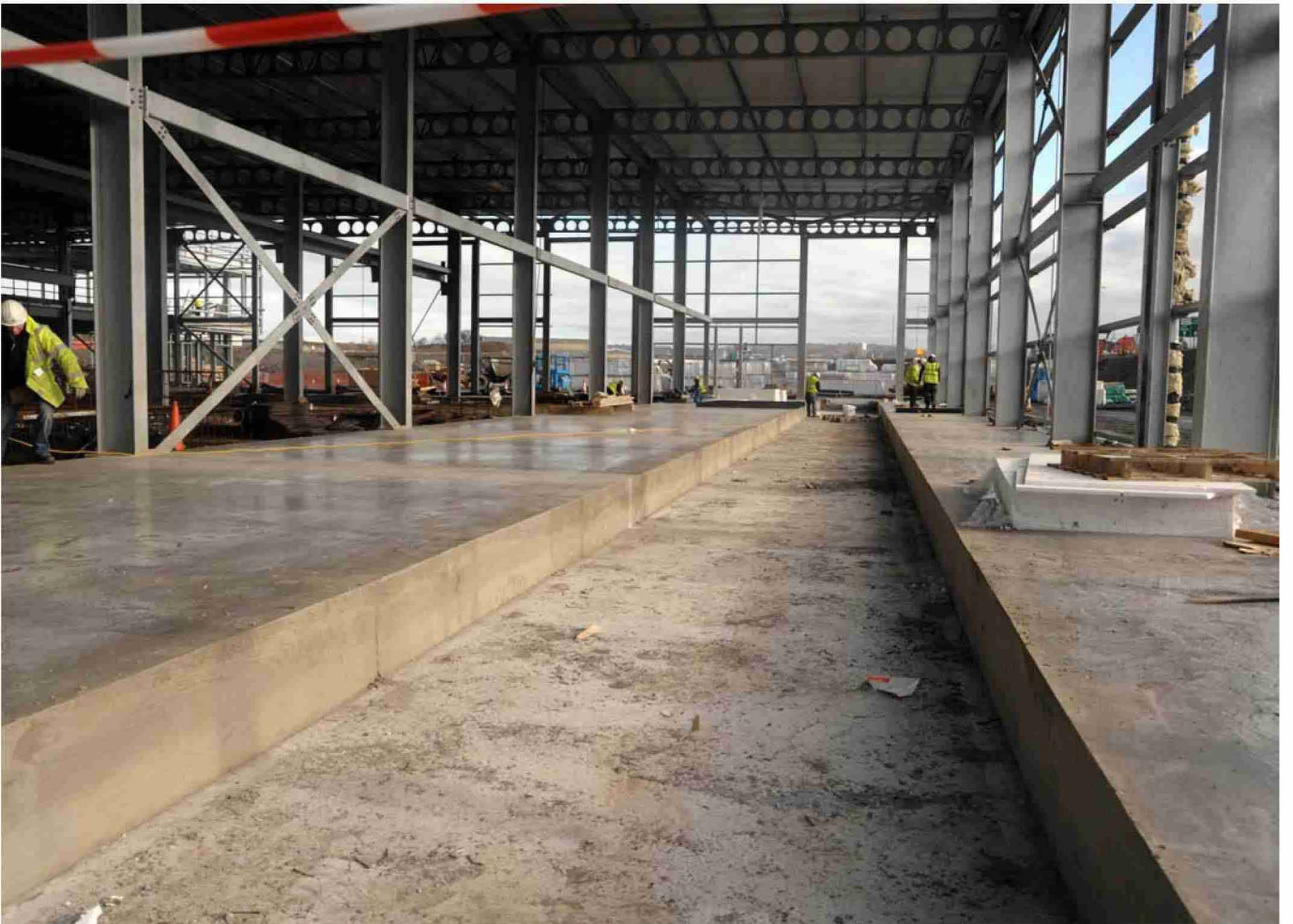
Return to OHS-WI by <b>8th</b> of following month	OHS-Wi email: QM@civil.Bilfinger.com	OHS-Wi fax 0049 (0)611 708 236
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1. Average number of BB staff or site workers during the month.  
 2. Hours should be included if known. Do not leave boxes blank eg make an estimate or multiply number of staff by monthly hours worked eg x 200  
 3. Subcontractor numbers should be estimated if no exact figure known. Average part time workers over month eg 10 workers for half a month = 5.  
 4. If Return To Work (RTW) date has not yet occurred, keep name in box until RTW date known  
 5. These are summary Group figures including all R&T's on site. For separate Regions or Technology Reports, please send a R&T specific report to the R&T  
 6. Days lost are working days. You may have days lost to report from an old accident but no accident this month  
 \*Definition for a 3D+ accident includes weekends but not day of accident. You should check if man is available or fit for work during a weekend, then it may not be a 3Day+  
 7. Do not leave boxes blank, make an estimate. If Return To Work (RTW) date has not yet occurred, keep name in box until RTW date known  
 8. These figures are for Group use, separate returns should be made to Regions or Technical depts for their statistics & close out, so duplication does not occur. See example in manual  
 9. All lost time or subsequent developments refer back to the month when the injury occurred  
 10. Counting for 3D+ accidents include weekends but days lost only count working/earning days

## 2.13 Project Photographs

see following pages

Picture 01	Section 7	Near Hilton Car Park
Picture 02	Section 6	Depot Building
Picture 03	Section 6	Depot Building & Area
Picture 04	Section 5C	Area A8 Underpass
Picture 05	Section 5B	Edinburgh Park Station Bridge
Picture 06	Section 5B	Guided Busway
Picture 07	Section 5B	Guided Busway
Picture 08	Section 5B	Carrick Knowe Bridge
Picture 09	Section 5B	Carrick Knowe Bridge
Picture 10	Section 5A	Area Russell Road RTW











### 3.01 Overview Movements of Contingencies

Estimated Risks from Top Sheet (Unqualified Risk Register)		estimated	dissoluted	remaining
		GBP	GBP	GBP
01.	Add. Insurances acc. CL. 76.17	10,000		10,000
02.	Liquidated Damages	464,000		464,000
03.	Interface with Railway Authorities	25,000		25,000
04.	Uninsured Economic Losses	132,500		132,500
05.	Delayed Start Of Construction Works	360,000		360,000
06.	Firm items In Value Engineering	279,500		279,500
07.	Quantity Risk <span style="float: right;">Adjusted in Job Estimate 09/2008</span>	1,000,000	292,824	707,176
08.	Corderoy's Quantities For Pavements in Sect. 5	389,000		389,000
09.	CEC Planning	25,000		25,000
10.	Road Safety Audit	250,000		250,000
11.	Network Rail	75,000		75,000
12.	Edinburgh Park	37,500		37,500
13.	Forth Ports	5,000		5,000
14.	HMRI	25,000		25,000
15.	Rails Drainage, Connections to existing drainage	70,000		70,000
16.	Tramstop	71,500		71,500
17.	Bonding and Earthing Not Priced	14,500		14,500
18.	Obstructions / Boulders (Piling And Achoring)	30,000		30,000
19.	Settlement / Consolidation	20,000		20,000
20.	Soil Stabilization For Traffic on Embankments	100,000		100,000
21.	Reconstruction In Full Depth Of Pavement 1B	197,500		197,500
22.	Labour	40,000		40,000
23.	Staff	40,000		40,000
24.	Performance Of Utility Companies	5,000		5,000
25.	Ecology	1,000		1,000
26.	Pollution	2,000		2,000
27.	Changes In Law	30,000		30,000
28.	Legal Support	100,000		100,000
29.	Value Engineering	200,000		200,000
30.	Interpretation Of Code Of Constuction Practice	100,000		100,000
31.	Siemens/BB Scope Split	500,000		500,000
<b>total Estimated Risks from Top Sheet (Unqualified Risk Register)</b>		<b>4,599,000</b>	<b>292,824</b>	<b>4,306,176</b>
<b>Estimated Opportunities from Top Sheet (Unqualified Risk Register)</b>				
32.	Changes in Employers Requirements	-100,000		-100,000
33.	Package Contractors Interface	-10,000		-10,000
<b>total Estimated Opportunities from Top Sheet (Unqualified Risk Register)</b>		<b>-110,000</b>	<b>0</b>	<b>-110,000</b>
<b>Additional Estimated Risks</b>				
34.	Interface Systems & Civils	1,000,000	0	1,000,000
<b>total Additional Estimated Risks</b>		<b>1,000,000</b>	<b>0</b>	<b>1,000,000</b>
<b>Estimated Escalations</b>				
35.	Escalation - Farrans <span style="float: right;">Adjusted in Job Estimate 11/2008</span>	483,046	483,046	0
36.	Escalation total <span style="float: right;">Adjusted in Job Estimate 08/2009</span>	4,388,294	942,000	3,446,294
37.	Enhanced Labour Rate	294,000		294,000
<b>total Additional Estimated Escalations</b>		<b>5,165,340</b>	<b>1,425,046</b>	<b>3,740,294</b>
<b>Contingencies released</b>				
38.	Overall <span style="float: right;">Adjusted in Job Estimate 10/2009</span>	0	3,916,682	-3,916,682
<b>total Additional Estimated Escalations</b>		<b>0</b>	<b>3,916,682</b>	<b>-3,916,682</b>
<b>total</b>		<b>10,654,340</b>	<b>5,634,552</b>	<b>5,019,788</b>



Project: **Edinburgh Tram Network**  
as per: **28/02/2010**



**3.02 Design - Drawing Status**

No.	Description Status acc. Sections	Sections							Phase		Total
		SW	1	2	3	5	6	7	1a incl. SW	1b excl. SW	
<b>Original SDS Design:</b>											
1	Draft, to be issued for construction	6	3	3	0	0	0	2	14	0	14
2	Issued for External Approval (IFEA), to be IFC	4	20	3	129	15	2	2	46	129	175
3	Issued for Construction (IFC)	18	254	70	261	424	40	119	925	261	1186
4	Partially agreed for Construction (PAFC)	7	207	29	0	57	0	0	300	0	300
5	Agreed for Construction (AFC)	0	0	0	0	0	0	0	0	0	0
6	For As-Built Info Incorporation	0	0	0	0	0	0	0	0	0	0
7	As Built	0	0	0	0	0	0	0	0	0	0
8	Hand over	0	0	0	0	0	0	0	0	0	0
9	Withdrawn	0	1	4	0	1	0	0	6	0	6
10	Not to be IFC	296	188	15	155	185	28	43	755	155	910
11	IFEA, but not to be IFC	95	65	7	41	48	22	22	259	41	300
<b>New Design for Change Order:</b>											
21	Draft, to be issued for construction	13	34	2	0	35	0	27	111	0	111
22	Issued for External Approval (IFEA), to be IFC	22	24	11	0	74	0	3	134	0	134
23	Issued for Construction (IFC)	9	32	6	0	54	59	10	170	0	170
25	Agreed for Construction (AFC)	0	0	0	0	0	0	0	0	0	0
26	For As-Built Info Incorporation	0	0	0	0	0	0	0	0	0	0
27	As-Built	0	0	0	0	0	0	0	0	0	0
28	Hand over	0	0	0	0	0	0	0	0	0	0
30	Not to be IFC	1	0	0	0	4	0	2	7	0	7
31	IFEA, but not to be IFC	0	22	0	0	1	1	1	25	0	25
<b>Existing Design subjected to revisions for Change Order:</b> (It is assumed that drawings issued after 1/7/09 have Change Orders incorporated.)											
41	Draft, to be rev. for CO	4	16	4	0	3	0	3	30	0	30
42	IFEA, to be rev. for CO	21	20	1	0	11	5	6	64	0	64
43	IFC, to be rev. for CO	17	160	19	0	166	46	52	460	0	460
44	Draft, revised for COs	0	0	0	0	0	0	0	0	0	0
45	IFEA, revised for COs	8	10	7	0	11	0	1	37	0	37
46	IFC, revised for COs	11	160	20	0	108	144	19	462	0	462
50	Draft, withdrawn for CO	48	0	0	0	2	0	5	55	0	55
51	IFEA, withdrawn for CO	130	6	5	0	0	0	0	141	0	141
52	IFC, withdrawn for CO	0	26	4	0	39	5	0	74	0	74
Total (1~3+5-52)		703	1041	181	586	1181	352	317	3775	586	4361
<b>Original SDS Design:</b>											
Issued for Construction (3+5-8+43+46)		46	574	109	261	698	230	190	1847	261	2108
Total Issue for Construction (1~3+5-8+41~46)		89	643	127	390	738	237	204	2038	390	2428
Percentage of Completion IFC		51.7%	89.3%	85.8%	66.9%	94.6%	97.0%	93.1%	90.6%	66.9%	86.8%
<b>SDS Design incl. Change Orders:</b>											
IFC incl. new Issues for CO (3+5-8+23-28+43+46)		38	446	96	261	586	243	148	1557	261	1818
Total IFC incl. new Issues for CO (1~3+5-8+21~28+41~46)		133	733	146	390	901	296	244	2453	390	2843
Percentage of Completion IFC		28.6%	60.8%	65.8%	66.9%	65.0%	82.1%	60.7%	63.5%	66.9%	63.9%