Edinburgh Tram Network

Progress Report No. 14

Doc. Ref: ULE90130-SW-REP-00316 V1

October 2006



Parsons Brinckerhoff Ltd Edinburgh Tram Network SDS Provider CityPoint 1st Floor 65 Haymarket Terrace Edinburgh, EH12 5HD

Telephone: 44(0) 131 623 8600 Facsimile: 44(0) 131 623 8601 Email: edinburghtram@pbworld.com

27th October 2006

AUTHORISATION PAGE

Title: Progress R	eport No. 14			
Approvals	Name	Position	Signed	Date
Author	Sally Bristow	Project Controls Assistant		27/10/06
Reviewer	Jes Hansen	Project Controls Manager		27/10/06
Approver	D Hutchison	Project Director		27/10/0

Revision History

Ver No	Date	Description	Prepared By
1	27 Oct 06	Final Version	Sally Bristow

Distribution

Ver No	Date	Name	Role	Company
1	27 Oct 06	Ailsa McGregor	Contract Representative	tie

CONTENTS

1.		CRITICAL ISSUES	4
2.	2.1. 2.2. 2.3. 2.4. 2.5.	EXECUTIVE SUMMARY General summary Overall Progress on Activities this Period Forecast Progress on Activities for the next Period Key Issues Deliverables issued in the Period	6 6 7 7 7
3.	3.1. 3.2. 3.3.	CONSENTS AND APPROVALS Activities Key Issues Forecast	8 8 8
4.	4.1. 4.2. 4.3.	HEALTH AND SAFETY General Activities this period Deliverables for next period	9 9 9
5.	5.1. 5.2. 5.3. 5.4.	STAKEHOLDER MANAGEMENT / PR General Activities Deliverables Key Issues	10 10 10 10 10
6.	6.1. 6.2.	DESIGN General Status in the period Activities	10 10 12
7.	7.1. 7.2. 7.3. 7.4.	PROCUREMENT General Activities Deliverables Issues	27 27 28 28 28
*8.	8.1. 8.2. 8.3. 8.4. 8.5.	PROGRAMME General summary of Progress Actual Activities this Period Planned Activities this Period Planned versus Actual in the Period Planned Activities next Period	28 28 28 28 28 28
9.		RESOURCES / MANPOWER	29
10	10.1. 10.2.	FINANCIAL SUMMARY & CHANGE ORDERS Change Notices Change Requests submitted by SDS	29 29 30
11		INFORMATION REQUIRED	31
AF	Appendix Appendix Appendix Appendix Appendix Appendix	ES A: KEY MILESTONES B: PROJECT PROGRESS SUMMARY C: LABOUR HISTOGRAMS / MANPOWER HISTOGRAMS D: CHANGE CONTROL REGISTER E: CURRENT CAPEX COST ESTIMATE SUMMARY TABLE F: SUBMITAL PROGRAMME AND DELIVERABLES MATRIX G: HEALTH AND SAFETY STATISTICS H: RFI STATUS REPORT	32 33 34 35 36 37 38 39 40

1. CRITICAL ISSUES

Commercial

- 1. Agreement of Outstanding Changes
- 2. Agreement of extension of time
- 3. Agreement of project programme

Design

Section 1

- 1. Design Approval Panels for Section 1B, 1C, and 1D
- 2. Formal resolution and acceptance of Charrette layouts and concepts.
- 3. Utilities solution along Constitution Street
- 4. Impacts of Charrette requirements in Utilities design.
- 5. Leith Walk substation Planning inputs to resolve DAP RED.
- 6. Ocean Drive stop change due to new construction

Section 3

- Roseburn Corridor securing drainage outfalls. Still determining the drainage concept as a result
- 8. West Harbour Road solution/concept
- Outstanding RFI's Drainage information (Granton)/ WEL development data/ Roseburn maintenance
- 10. Granton Area committed development traffic flows
- 11. Roseburn Corridor Completion of noise mitigation design
- 12. Craigleith underbridge and Coltbridge Viaduct Charrettes
- 13. Ferry Road Junction modelling/ capacity with bus interchange

Section 5

- Structures Charrette need CEC to set date and agree agenda. Holding up structures design in section 5A and 5B.
- 15. Balgreen Road need resolution between SDS/tie/Network Rail over solution to be taken forward. Holding up section 5A track and structure designs and Balgreen Road tramstop.
- 16. CEC Flood scheme at Murrayfield, need instruction from tie/CEC about whether to include flood wall in embankment design. Holding up section 5A structure design.
- **17.** Discussions ongoing with SRU over nature of works at stadium entrance. **tie** to finalise and sign agreement with SRU.
- **18.** South Gyle tramstop paper prepared reviewing tramstop location. Need CEC decision on tramstop location.

Section 7

- 19. RBS bunds affecting archaeological trenching at Gogarburn. Will need to excavate bunds need tie to agree with RBS.
- 20. Eastfield Avenue bridge replacement need decision from tie/EARL. Holding up track alignment design at Airport.



- 21. Airport tramstop need resolution between tie/BAA/EARL. Holding up tramstop and track design at Airport.
- 22. Land access at New Ingliston for survey work and archaeology, tie/SDS to resolve payment to landowner. Holding up vertical alignment for section 7A.
- 23. Still await confirmation of EARL change notice.

Depot

- 24. Details of Tram length and door access positions Numbers of persons operating within Depot and shift pattern.
- 25. Parking spaces and Traffic modelling at Gogar Roundabout Confirmation on use of Tram Dryer associated with wash plant.
- 26. Final design solution to Retaining structure to A8 Position of Flight Path restriction (possible change). Confirmation of Wire height.
- 27. Availability (cost) of dual 11KV power supply



2. EXECUTIVE SUMMARY

2.1. General summary

This period SDS have been assisting with the production of the second issue of Tender support documentation for the Infraco Contract. SDS have produced a second additional suite of documentation and drawings which is forming part of Tender Issue 2 on 31 October 2006.

SDS have been verbally advised that the revised baseline programme is unacceptable to tie and that further review and update will be required. The design programme had been prepared on the basis of the schedule of dates issued to SDS on 28th September 2006 to suit the **tie** procurement process. SDS awaits formal clarification of the extent of this rework. A clarification meeting is arranged for Tuesday 31st October 2006.

Closure has been achieved on the scope and value of the Charrette changes between tie and SDS. Further meetings are planned to review the outstanding change control procedures to achieve closure.

2.2. Overall Progress on Activities this Period

SDS have continued to develop the Detailed Design and overall progress is currently 17%.

SDS have continued to work with **tie** to resolve outstanding Preliminary Design submission approvals issues. Progress on resolution of the Records of Review (ROR) and Design Approval Panel (DAP) comments received by SDS on the Preliminary Design are varied. Initial meetings have been held. TSS are in the process of validating all SDS comments in response to ROR and DAP comments. Closure discussions with **tie** have proved successful and have resulted in resubmission of SCC documentation and drawings. Interaction between **tie** and SDS system wide teams have resulted in documentation being agreed for the System Architecture Specification and Baseline 1 Requirements Specification. Progress with resolution of other discipline ROR and DAP comments has been limited and initial meetings unsuccessful due to failure of the TSS team to review SDS Closure comments. This is delaying the incorporation of closure comments in the SDS Detailed Design and urgent resolution of this is required.

SDS still receive comments on the Preliminary Design during this period. These comments are under review by SDS.

SDS have progressed Detailed Design in all areas including Charrette and Planning Summit locations. Official status of Planning Summit outcomes is still awaited.

SDS still await Design Approval Panel meetings be arranged for Section 1 to review the design and gain comments from **tie** and CEC on the design solutions. Confirmation of the dates for the structures DAP have been received and are planned for 12th to 14th November inclusive. Further to attendance of PB Placemakers to Edinburgh, SDS has prepared artistic impressions of various solutions for Edinburgh Park Viaduct in order to progress the design at the structure Charrettes. These are also being reviewed for the likely impact on scheme CAPEX.

SDS completed and delivered the Preliminary Design estimate for the utilities diversions on 10th October 2006.

GI and SI Surveys are ongoing and the ground investigation surveys and archaeological surveys are 78% complete. Land access has been problematic and resolution of access to NIL has been negotiated. Also gaining approval for Norwest Holst to access Network Rail is proving problematic.



Information received to date from the SI and GI surveys has been included in the Tender Issue 2 to Infracos on 31st October 2006.

SDS have delivered the traffic modelling report to tie and CEC. SDS are now working on the update of the traffic modelling to reflect Charrette Changes.

SDS have prepared a TRAMCO supplier report following factory inspection last period to verify that the factory capabilities of each bidder are acceptable and appropriate.

SDS have been working with **tie** in undertaking the second round of public consultations this period and engaged with the public at the Tram design consultation event on 26 October 2006. The event was a success with 344 members of the public in attendance. SDS stake holder management team and technical support team provided design information to the public.

2.3. Forecast Progress on Activities for the next Period

A range of technical meetings have taken place with the newly appointed MUDFA contractor and it has been agreed that SDS will work with **tie** to ensure that a clear action plan is developed to deliver designs to the MUDFA contractor to meet their construction programme.

2.4. Key Issues

SDS still await Design Approval Panel meetings be arranged for Section 1 to review the design and gain comments from **tie** and CEC on the design solutions, this will enable SDS to proceed with the Detailed Design.

Resolution is urgently required for the solution to be adopted for Balgreen Road Bridge. Currently Network Rail are refusing to approve the SDS AIP document on the basis that they do not want the tram to cross the existing structure. SDS have produced a report on the various solutions for the NR access issues but have not received formal response.

The Murrayfield CEC/SRU flood scheme issue also requires clarification from CEC in order that SDS can progress the design of the training pitches.

The traffic modelling progress has been significantly delayed due to the delayed input from the wider area model into the SDS lower level models. Despite this SDS managed to deliver the report on 20th October 2006.

SDS still awaits a CEC decision on how they wish to deal with the existing Greenways (red line parking restrictions). Without a clear decision from the client, there is an unacceptable risk that design work would be abortive. As you are aware, Dundas and Wilson submitted a paper on 21st August 2006 outlining the options available to CEC. No comments or response has been received by SDS.

2.5. Deliverables issued in the Period

SDS will continue to undertaker the GI and SI survey works through to completion in line with the survey programme.

3. CONSENTS AND APPROVALS

3.1. Activities

- Reviewed the Detailed Design Programme in respect of Approvals and Consents –filter of relevant dates, timescales and milestones for elemental and other submissions.
- Provided a batching and numbering proposal for Section Design Managers (SDMs) in a
 Technical Advice Note setting out issues and potential solutions as part of an indicative
 schedule.
- Provided information regarding the Monthly Meeting Cycle and the integration of Approvals and Consents into the design process.
- Provision of a process diagram for the submission and approval of Prior Approvals to CEC
- Monitoring the Approvals and Consents Management Plan and tracker.
- Supporting, liaising and working with SDMs and Design Team Leaders on planning matters and key issues.
- · Supporting and commenting on the three proposed test applications for Prior Approvals
- Preparing a template for Design Statements for SDMs
- · Servicing and attending the Tram Design Working Group.
- Continuing to liaise and progress approvals issues with City of Edinburgh Council Planners
- Meeting with SDS Project Manager and Design Manager on the Strategy for Obtaining Prior Approvals
- Convened Integration Meeting with CEC to address Planning, Transport and urban design issues
- Attending weekly Section Design Manager liaison meetings to assist in co-ordination between SDMs and DTLs
- Attended TDWG and input into Detailed Design Programme vis-à-vis numbers and batching
- · Input into Risk Assessment Analysis
- · Meeting on Planning Drawings with Structures, Roads and Environment
- Ongoing work in relation to Design Appraisal criteria
- · Convened a Buildings Fixings Workshop involving key stakeholders
- Liaison with D&W
- Batching and Numbers Technical Note circulated to SDMs, Design Leader and Project Manager
- Production of a template on Design Statements for SDMs
- Finalisation of Prior Approvals Flow Diagram
- Production of guidance in relation to planning drawings form and content
- Building Fixings Report and Workshop Proceedings
- Initial draft of Design Appraisal Checklist

3.2. Key Issues

- Resolution of programme and approach to Prior Approvals Submissions with SDMs and SDS Project Manager
- Progress with the production and detail of Planning Drawings
- Assisting SDMs to ensure forthcoming test applications and Design Statements are acceptable to CEC
- Ensuring approvals and consents issues are at the forefront of Detailed Design
- Approvals and Consent input to Tram Design Working Group presentations required
- Need to meet with CEC planners to finalise numbers batching and process

3.3. Forecast

Lead for SDS on Programme and Approvals and Consents



- Continue coordinating planning consents submission requirements amongst the SDS team.
- Drive the agenda of the Tram Design Working Group.
- · Regular liaison and consultation with CEC.
- Attend team meetings.

4. HEALTH AND SAFETY

4.1. General

CDM Health and Safety activities are being developed as appropriate.

There are ongoing reviews of Method Statements and Risk Assessments for non-intrusive and intrusive surveys.

There is progressive delivery of **tie** and SDS's Edinburgh Tram Induction packages to all members of the SDS team – thirty-five personnel were inducted (tie/PB) within the period.

Safety Hazards/Risks are being input in to the Project Risk Register.

The Safety Management Plan comments have now been closed out. This plan will be continually developed and updated during the Detailed Design phase.

Site investigations works are currently ongoing. Monitoring of site activities to ensure adherence to site health and safety plans and method statements has commenced. To date there have been no accidents or safety related incidents reported from the ongoing Ground Investigation surveys.

There have been a series of CDM meetings between **tie** and SDS. The key focus of these discussions has been to gain an understanding of the key Health & Safety risks encountered during the design and the residual risk that construction contractors will need to be aware of. Meetings to date have involved the Utilities and Structures disciplines, with others to follow. The discussions served to provide a clearer understanding of the Planning Supervisors requirements regarding the information for residual risks.

Discussions continue to be ongoing with Network Rail regarding the safety implications of the various options being proposed for the Balgreen Road access.

4.2. Activities this period

- CDM meetings commenced to discuss key Health and Safety risks.
- Method Statements for various survey works accepted.

4.3. Deliverables for next period

- Finalise the Network Rail GI Health & Safety Plan dependent on Network Rail's acceptance of the tie 3rd Party Safety Strategy Plan.
- Develop method statements for submission to Network Rail for acceptance to allow survey works at First ScotRail's Haymarket depot.
- Submit Method Statement addendum for ground Investigation work in the designated RED area at Gogarburn.
- Submit Traffic Management Plan for A8 works to tie for acceptance.
- Leith Walk Confined space working on Network Rail Land approval and acceptance.
- Monitor through site health and safety inspections the onsite activities of the GI
 contractors to ensure adherence to the approved construction health and safety plan and
 method statements.



 Continue discussions with Network Rail regarding the safety implications for tram and heavy rail for the Balgreen Road options.

5. STAKEHOLDER MANAGEMENT / PR

5.1. General

The second round of consultation meetings, presenting the Preliminary Design commenced on 25th September. Additional meetings will need to take place in order to consult on noise mitigation measures and drainage solutions for the Roseburn Corridor. These are due to be held in December. Further consultations with key stakeholders in support of the Approvals process are due to take place from October onwards.

5.2. Activities

In addition to the scheduled meetings, the following stakeholders have been visited and briefed on the consultation and the design processes.

Meetings held:

- Haymarket to Murrayfield 2nd round consultation meeting 25/09/06
- Cycling Group consultation meeting 27/09/06
- Balbirnie Place 2nd round consultation meeting 10/10/06
- Roseburn Maltings 2nd round consultation meeting 16/10/06
- Craigleith to Crewe Toll 2nd round consultation meeting 17/10/06
- Roseburn to Craigleith 2nd round consultation meeting 18/10/06
- Emergency Services consultation meeting 19/10/06

Planned meetings:

- Roseburn wider community meeting 26/10/06
- Granton 2nd round consultation meeting W/C 20/11/06
- Granton wider community W/C 20/11/06
- Airport wider community meeting W/C 06/11/06
- Shandwick Place to St Andrew Square W/C 13/11/06

5.3. Deliverables

N/A

5.4. Key Issues

The tie External Relations Manager leaves the company on 10th November. This will leave a considerable knowledge gap in the client's communications team, with Mike Connelly being engaged in more high-level activities rather than the day-to-day management of the frontagers. Outstanding activities and a handover session will be attended by the SDS stakeholder team.

DESIGN

6.1. General Status in the period

- A significant amount of resource has been involved in the production of the ItN Infraco documentation; this has had an effect on the progress of Detailed Design, which will be assessed.
- Progress has been made on Charrette areas in terms of development of layouts, post PD phase.



The Detailed Design Programme was delivered to tie on 5th October 2006; feedback has been provided in a subsequent meeting but acceptance is still awaited. Notwithstanding this, it was agreed that the programme be presented to CEC and the TDWG, this was done on 12th October and 18th October.

Section 1

The main focus of activities in Line Section 1 has focused on development of the charrette options. Outstanding issues associated with the Charrettes include formal resolution on St. Andrew Square from CEC. SDS have provided an options paper to CEC requesting formal direction on the concept to be advanced. tie have directed SDS to progress with one alternative for ItN and SDS will carry this through into Detailed Design. However, on-going discussions with CEC indicate that in their opinion, the decision has not yet been made. For the other Charrettes, SDS has clear indication of the preferred concepts, and is to provide additional details to ensure that critical issues as outlined in the Charrettes are covered, which is more than originally required at the PD submissions. The impact of the Charrette layouts on the utility designs at Foot of the Walk and St. Andrew Square needs to be addressed immediately due to the magnitude of the change. Foot of the Walk needs to be addressed in conjunction with the on-going spatial planning issues that exist on Constitution Street for the services.

SDS have yet to have Design Approval Panels for Sections 1B, 1C, 1D. Consequently, all work being done outside of Charrette areas is at risk. SDS have received comments from CEC for these areas, and are considering them moving forward. It is now critical that the inputs from the traffic modelling be incorporated into the designs to validate the junction designs for PD, and to respond to the comments received from CEC and stakeholders.

Layout in front of Ocean Terminal has been adjusted to accommodate requirements of Forth Ports, and also to accommodate the requirements outlined in using Ocean Terminal as the system terminus initially. SDS requires clear direction if this is to be the case, as it will have several impacts on the comments received from CEC and will potentially eliminate several issues without the extension to Newhaven initially.

The layout of the stop and p-way at the Ocean Drive stop will require adjustment. SDS are considering the possibilities. New development has been constructed adjacent to the stop, and SDS have completed surveys to locate the new building and associated amenities. The result is that SDS have found a conflict in the platform location and the access points constructed as part of the new development.

Section 3A (Roseburn Corridor)

An interim track alignment solution has been completed to allow progression of the retaining wall design. A presentation and site walkout with TDWG is arranged for 1st November. Actual examples of similar walls in Edinburgh will be presented.

There are various opinions spread between tie, Transdev, SDS, HMRI, CEC and Road Safety Auditors on the issue of cycleway demarcation and we are currently in the process of resolving these.

The drainage design solution in Roseburn depends primarily on obtaining consent for outfall locations. So far, approval of the concept has not been achieved, with consultation with SEPA ongoing. Scottish Water discussions are on hold pending outcome of discussions with SEPA. Three drainage concepts have been investigated so far. The latest requires permission from SEPA to outfall to the Water of Leith in entirety, using a pumped water main throughout the corridor.

Section 3B (Pilton)

There is consensus on the layout of Ferry Road Junction from CEC, subject to modelling and obtaining a departure from standards for a 17m long pedestrian crossing.



There appears to be an issue with the figures used in the modelling, as CEC may be expecting committed development flows to be used in the modelling through the Granton Area.

Section 3C (Granton)

Development of Granton Square tramstop location and track layout has been ongoing. We are still determining the concept along West Harbour Road, due to the number of accesses on both sides. The preferred solution will likely require closing of roads/private accesses including at the Pickfords Depot and possibly including Oxcraig Street. Feasible alternative accesses are possible. Agreement will be required with the tenants.

The alternative to altering the access arrangements is a fully signalised solution, although this design is not yet proven and due to the number of consecutive signals is undesirable both in terms of traffic flow and street clutter.

Section Haymarket - Airport

Design is progressing in most areas in accordance with the programme. A number of the items which were put on hold following the Design Approval Panel meetings have now been cleared, including the Russell Road substation location. Development work has been carried out for the other outstanding items, of which the main concern is agreeing a date and agenda for a structure Charrette. Other areas of concern which could cause delay are the airport interface and archaeology at Gogarburn. Obtaining an agreement from Network Rail over the Balgreen Road access road is also critical for the design work.

6.2. Activities

6.2.1.Track

Follow up from Previous Reports:

 Track alignment design between Balgreen Road and Water of Leith Bridge, and development of options for optional turnback and siding facility at Balgreen Road stop, awaiting decision on access requirements for Network Rail.

Activities during the period:

- · Continuation of development of Charrette changes in track alignment.
- Continuation of track-structures design coordination assessment of track alignment design status (in advance of completion of Detailed Design) in terms of robustness for use by structures design team for commencement of Detailed Design of structures.
- Continuation of track-structures design coordination assessment of trackforms, requirements for rail movement joints and derailment containment.
- · Responses to Records of Review of Preliminary Design.
- Review of project risks.

Works completed during the period:

- Issue of track alignment data to Structures Design Team to enable start of detailed design of Haymarket Station Viaduct.
- Development of alignment design on Roseburn Corridor to coordinate with structural design, foot/cycleway design, retaining wall design and 'pinch points' wrt LOD.
- Issue of track alignment data to Structures Design Team to enable start of detailed design of structures in Roseburn Corridor.
- Revision of track alignment in Section 5C to incorporate comments on Preliminary Design and handover of the same to the Roads Design Team.
- Development of alternative track alignment at Ocean Drive to allow for transgression of LOD by third party (new apartment block development) and for possible future connection to depot at Leith.
- Development of alternative track alignment at Ocean Terminal to allow for possible termination of Network at Ocean Terminal, with provision for future extension to Newhaven.



- Assessment of feasibility of alternative track alignment to accommodate possible revised location of South Gyle stop.
- Assessment of feasibility of alternative track alignment to accommodate levels of roads in future NEL development, Edinburgh Park, immediately north of Edinburgh Park Station Bridge.
- Revision of track alignment in Section 2A to incorporate comments on Preliminary Design and handover of the same to the Roads Design Team.
- Issue of track alignment data to Structures Design Team to enable start of Detailed Design of all structures (with exception of A8 retaining wall) in Section 5C.
- Issue of track alignment data to Structures Design Team to enable start of Detailed Design of Golgar Culvert Nos 1, 2 and 3 and EARL Underbridge in Section 7A.
- Production of special versions of track alignment drawings, incorporating Charrette changes, for InfraCo ItN package.

Work planned for the next period:

- Continuation of design development of Charrette changes.
- Subject to receipt of decision on access requirements for Network Rail, design of track alignment between Balgreen Road and Water of Leith Bridge, and development of options for optional turnback and siding facility at Balgreen Road stop.
- Continuation of track-structures design coordination assessment of track alignment design status (in advance of completion of detailed design) in terms of robustness for use by Structures Design Team for commencement of Detailed Design of structures.
- Continuation of track-structures design coordination assessment of trackforms, requirements for rail movement joints and derailment containment.
- Wheel-rail interface study.
- Development of trackforms.
- · Trackwork specification.
- · Rail movements joint schedule.
- Commence assessment to determine final selection of rail sections.
- Commence assessment to determine rail grades.
- Commence production of guard rail drawings.

Work to be completed during the next period:

- Responses to Records of Review of Preliminary Design.
- Revision of track alignment in Section 1A to incorporate comments on Preliminary Design and handover of the same to the Roads Design Team.
- Revision of track alignment in Section 5A to incorporate comments on Preliminary Design and handover of the same to the Roads Design Team.
- Revision of track alignment in Section 3A to incorporate comments on Preliminary Design and handover of the same to the Roads Design Team.
- Review of project risks.

Issues:

None to report

Information Required in the Next Period:

 Decision on access requirements for Network Rail between Balgreen Road stop and Water of Leith bridge.

6.2.2.Tram Systems

Follow up from Previous Reports:

None to report

Activities during the period:

- Support to tie Tramco procurement, evaluating bids from prospective tram suppliers
- Preparations for revision of Tram Requirements Specification and Tram Interface Specification

Works completed during the period:



Works completed during the period

 Investigation into sidestepping a hearing on the core TROs has to date been unsuccessful therefore we must assume there will be a hearing for all TRO issues

Work planned for the next period

- Amendment of the initial draft TRO is dependent on the progress of the roads design
- Revise programme to reflect proposed date of completed modelled roads design
- Greenways being progressed by CEC
- Agreement to be reached with CEC on the definition of Core and Consequential Orders agreement on core measures on route seems almost there
- CEC to confirm their position on changes to the Greenways
- · Resolve the election issue and reflect this in the programme.

Work to be completed during the next period

- · Amendment of the initial draft TRO dependent on the progress of the roads design
- Have a realistic TRO programme developed that reflects the proposed roads design programme and the election
- CEC to confirm their position on changes to the Greenways

Issues

- Awaiting resolution on CEC issues including changes to Greenway treatment/enforcement
- No definitive TRO design can be concluded until the roads design and modelling have been concluded to an agreed standard with CEC where they are content to permit the TRO to progress to formal consultation

Information required in the next period:

· Confirmation on progress with approved modelled roads design

6.2.12. Transport Modelling

Activities during the period:

- First draft of report on junction analysis work based on layouts submitted as Preliminary Design (PD1).
- Continue tram run-time calculation including double cycling exercise

Works completed during the period:

 Completion and submission of draft report on junction analysis work (using LINSIG) based on PD1 layouts

Work planned for the next period:

- · Report on tram journey time and TRANSYT analysis
- Subject to availability of traffic flows where applicable, investigate and analyse revised layouts proposed as Charrettes.

Work to be completed during the next period:

Draft of TRANSYT model report and tram run-time calculation report.

Issues:

 Requirement for and programming of modelling associated with the MUDFA and INFRACO contracts to be defined and agreed.

Information required in the next period:

None to report

6.2.13. Utilities

Follow up from Previous Reports:

- Internal consultation (design development)
- External consultation (client)
- External consultation (Utility companies)
- Consultation with MUDFA Contractor (design development)



Evaluation visits to prospective tram suppliers

Work planned for the next period:

- Revision of Tram Requirements Specification, Tram Interface Specification.
- Interviews with prospective tram suppliers.

Work to be completed during the next period:

None

Issues:

None

Information required in the next period:

Formal comments on Tram Requirements Specification, Tram Interface Specification.
 Change notices for tie tram requirements.

6.2.3. Systems Controls and Communications

Follow up from Previous Reports:

The three items requiring tie action last period were:-

- Closure of SCC PD client comments
- · tie comments on SCC OPS
- tie buy-in to the PB SCC Detail Design OPS

None of these were totally closed and progress is described in items below:

Activities during the period:

- SCC resubmission of PD deliverables in line with tie's latest requirements
- Re-visit to Programme and resources
- SCC closures of PD ROR comments and responses
- SCC development of Drawing Register and proposed quantities / samples
- SCC Detailed Design OPS and review meeting with tie (P Alliott)
- SCC production of selected drawing samples for client review
- SCC / Safety Assurance meetings to review charts and plan way forward

Works completed during the period:

 SCC resubmitted their PD "Plus" Technical Specification & associated drawings prior to the 30th September 06 as agreed with SDS and PB Project Management Teams.

Work planned for the next period:

- Formal acceptance of SCC Preliminary Design submission leading to status being changed from Red to Green.
- Formal meeting to discuss PB Detailed Design OPS and differences in perceived scope following on from J Christoffersen / P Alliot meeting on 12th Oct 06.
- Complete Signalling and Communications "sample" drawings where possible
- Continue with Radio Propagation Modelling works
- Progress meetings with key discipline interfaces

Work to be completed during the next period:

- Complete Signalling and Communications "sample" drawings where possible
- Agreement on PB Detailed Design OPS and / or actions to reach formal agreement on way forward – outstanding from previous period and now in hands of PB / tie PMs.

Issues:

- As per previous period :
- The SCC Detailed Design OPS describes the level of detail SCC will produce for the
 various sub-systems relating to "black-box" level and any areas where PB will go beyond
 this level of detail. This level of detail also aligns to the current SCC budget, Engineering
 Plans put in place and resources programmed to deliver this element of works. It also
 reflects the fact that the level of detail developed should not preclude any potential
 suppliers from offering their proven solution.



Discussion is required with tie regarding aspirations to develop designs to a greater level
of detail so as to provide "approved for construction" level drawings (connectors, wiring
looms etc.), as previously stated by SDS the solutions and products could be different
dependant upon which Infraco (and associated SCC sub-contractor) is successful.

Information required in the next period:

- Closure of SCC PD client comments
- tie comments on SCC OPS
- tie acceptance of SCC Detail Design OPS

6.2.4. Halcrow Structures / Bridges

Follow up from Previous Reports

 The Structures Team is currently working on resolving "red" issues with CEC and tie through the forthcoming structures workshop, details to be confirmed.

Activities during the period:

- Ongoing involvement in resolution of Preliminary Design "Red" issues
- Responded to unofficial DAP comments and tie generated comments
- · Preparation of HMRI submission regarding various structures
- Participated in the site visit to the Roseburn Corridor with HMRI
- Continuing discussions with CEC Structures to achieve AIP sign off.
- Completed Preliminary Design and issued revised AIP for Russell Road Bridge with a portal frame option.
- Revised and issued AIP for Gogar Burn Retaining Walls design following revised alignment information.
- Undertaking Detailed Design of Roseburn Corridor Retaining Walls design following receipt of revised alignment information.
- · Preparing method statement for outstanding inspection of Leith Walk Railway Bridge
- Completed roped access inspection of Coltbridge Viaduct
- Completed trial pits along Roseburn Corridor
- Completed assessment of existing beams on Tower Place bridge
- Assisting in the development of the OLE design at structure locations.

Works completed during the period:

· Submission of response to unofficial DAP comments and tie comments

Work planned for the next period:

- Continue Detailed Design
- · Attend Structures Charrette, when date is finalised

Work to be completed during the next period:

None

Issues:

Structures Charrette is urgently required to move on design and discuss CEC "Reds".

Information required in the next period:

· Structures Charrette - see above

6.2.5.PB Structures

Follow up from Previous Reports:

 In respect of Ground Investigation, draft engineering logs have started to be received and are being reviewed as they are received.

Activities during the period:

- Murrayfield Tramstop Retaining Wall Continuing the Preliminary Design of supporting structure to Murrayfield Tramstop
- Roseburn Street Viaduct Continued with analysis of superstructure and preliminary steelwork setting out. Discussions on approval held with SRU.



Page 15 of 40

Uncontrolled when printed 29 September 2006

- Murrayfield Stadium Retaining Wall Comments from tie and CEC on draft Approval in Principle documents addressed. Approval in Principle document resubmitted to CEC for approval. Comments on Form A document received from Network Rail. Discussions on approval held with SRU.
- Murrayfield Underpass Work restarted on design due to decision to continue with culvert type structure.
- Murrayfield Training Pitches Retaining Wall Comments from tie and CEC on draft Approval in Principle documents addressed. Approval in Principle document resubmitted to CEC for approval. Comments on Form A document received from Network Rail. Discussions on approval held with SRU.
- Water of Leith Bridge Letter received in response to options report produced subsequent to Design Approval Panel.
- South Gyle Access Bridge Comments from tie and CEC on draft Approval in Principle documents addressed. Approval in Principle document resubmitted to CEC for approval. Commenced Detail Design of structure on analysis of bridge deck. Commenced drawing work.
- Bankhead Drive Retaining Wall Comments from tie and CEC on draft Approval in Principle documents addressed. Approval in Principle document resubmitted to CEC for approval. Continued with analysis and detailed design of retaining structure till hold point. Awaiting information before can be restarted.
- Gyle Tramstop Retaining Wall Draft Approval in Principle document submitted to tie and CEC for comment.
- A8 Underpass Comments from tie and CEC on draft Approval in Principle documents addressed. Approval in Principle document resubmitted to CEC for approval. Initial work on analysis of structure commenced.
- Gogar Burn Bridge Continued with analysis and detailed structural design of superstructure till hold point.
- EARL Overbridge Continued with analysis and detailed structural design of superstructure till hold point.

Works completed during the period:

- Murrayfield Stadium Retaining Wall Approval in Principle document reissued taking on board tie and CEC comments for formal approval.
- Murrayfield Training Pitches Retaining Wall Approval in Principle document reissued taking on board tie and CEC comments for formal approval.
- Bankhead Drive Retaining Wall Approval in Principle document reissued taking on board tie and CEC comments for formal approval.
- A8 Underpass Approval in Principle document reissued taking on board tie and CEC comments for formal approval.
- Gogar Burn Bridge Approval in Principle document reissued taking on board tie and CEC comments for formal approval.

Work planned for the next period:

- Murrayfield Tramstop Retaining Wall Issue draft AIP document to tie and CEC for comment.
- Roseburn Street Viaduct Continue Detail Design and drawings of deck structure. Obtain agreement from SRU with respect to pier layout at stadium entrance.
- Murrayfield Stadium Retaining Wall Issue Form A document to Network Rail for approval.
- Murrayfield Underpass Reissue AIP document to CEC for formal approval. Issue Form A document to Network Rail for comment. Obtain information on sewer through structure. Commence Detail design of structure.
- Murrayfield Training Pitches Retaining Wall Issue Form A document to Network Rail for approval.
- · Resolve flood wall issue.
- Water of Leith Bridge Resolve "red" status of bridge from design Approval Panel through structures Charrette.



- Balgreen Road Area Resolve status of bridge and adjacent wingwalls with respect to Network Rail concerns.
- South Gyle Access Bridge Continue Detail Design and drawings of deck structure.
- A8 Underpass Continue discussions with Service companies regarding diversions etc. Commence discussions on Traffic Management diversions for works.
- A8 Retaining Wall Commence Detail design of Retaining Wall structure
- Depot Access Bridge Resolve visibility issues. Commence Detail Design and drawings of deck structure.
- Gogar Burn Bridge Continue Detail Design and drawings of deck structure
- EARL Overbridge Continue Detail Design and drawings of deck structure

Work to be completed during the next period:

- Roseburn Street Viaduct Approval in Principle document, reissued taking on board tie and CEC comments for formal approval.
- Murrayfield Underpass Approval in Principle document, reissued taking on board tie and CEC comments for formal approval. Form A document to Network Rail for comment.
- Murrayfield Tramstop Retaining Wall Approval in Principle document, issued for comment.

- Delay to Ground Investigation means a number of the structures cannot commence Detail
- Balgreen Road area still not resolved to enable progress of design of the bridge plus Baird
- Design Approval Panel rejection of Water of Leith Underbridge
- Service diversions at A8 Underpass
- Traffic Management at A8 Underpass
- Improvements to A8 Retaining Wall design
- Response on CEC Murrayfield flood scheme
- Levels of sewer under Murrayfield Underpass
- Network Rail approvals
- Visibility issues at Depot Access bridge

Information required in the next period:

- Ground Investigation draft borehole logs
- Additional "gap" areas of topographical survey

6.2.6.Depot and Buildings

Activities during the period:

- Meeting with tie to confirm earlier briefing requirements has been held and changes have been introduced which have resulted in the Design development being put on hold until the following accommodation issues are resolved
- Confirmation of staff numbers to be accommodated
- Relocation of BAA runway to lift height restriction being investigated which may result in a redesign of Depot P-way
- Hazard Log update following last months review
- Consultations with the DNO electrical supplier commenced
- Up-dated Drawings for issue to Potential Contractors bidding the project completed including specification Documentation
- Agreement reached with tie on introduction of enclosed tram wash with dryer incorporated
- Progression of Detailed Design to access road
- Geotechnical Surveys underway
- Review of A8 retaining structure continues and Depot design held in part until impact on P-way is known

Works completed during the period:

None



External consultation (third parties)

Activities during the period:

- Continual consultations
- · Interim IDC with structures
- Comments on MUDFA 'Partnering Room' strategy
- · Identification of diversions to be deferred until Infraco
- Detail Design programming and resourcing
- Produce a Utilities activities status matrix
- Identification of work outside LOD
- Further meetings with MUDFA/tie/TSS

Works completed during the period:

- IDC responses
- EARL programming and resourcing
- · Issue of design information for use by MUDFA Contractor
- Identification of trial pit requirements (Line 2)
- · Detail Design programming and resourcing (for this period)
- Utility Diversion Strategy Paper

Work planned for next period:

- Continual consultations
- Detail Design programming and resourcing
- Interim IDC with structures
- Interim IDC with P'way
- Interim IDC with OLE foundation designers

Work to be completed during the next period:

- Detail Design programming and resourcing
- Interim IDC with structures

Issues:

- BT and Scottish Power feasibility studies may have an affect on programme.
- · Charrette changes delaying progress on Line 1.
- Details of track slab construction required to determine extent of utility diversions.
- Detailed assessment of structures needed to determine scope for redesign to minimise utilities diversions.
- Client personnel displaying conflicting requirements from SDS.

Information required in the next period:

Details of track slab construction. Standard OLE pole foundations and non-standard options

6.2.14. Site Investigations

Follow up from Previous Reports:

- Ground Investigation & Archaeological Investigation New Ingliston Ltd will be approached week commencing 23rd October 2006 to gain full access to their lands from outwith the LOD
- Last month's action for resolution of Network Rail Contractor's Assurance Case with current GI contractor is resolved.
- Notifications to landowners SDS now no longer issuing notification letters.

Activities during the period:

- Roseburn structures.
- Phase 3 continuing; Phase 4 instructed to Loy.
- Started on site
- Geoarchaeological boreholes.
- Metal detection at Gogar to Airport
- Trenching investigations at Gogar to Airport



- Tree identification survey
- · Survey of street furniture, fencing, signage etc
- Ground Investigation ongoing since 23rd August 2006

Works completed during the period:

- Roseburn structures (see issues)
- Topographic 75% completed
- Phase 1 initial reconnaissance survey over full scope area using fast-pass scanning techniques
- Geoarchaeological boreholes. Metal detection
- Ecological Trees 75% completed
- Site Clearance off street sections
- All locations except –

Network Rail

Red list contaminated areas

8A

Total – 148no. locations out of 170no. total = 87%

Work planned for the next period:

- Leith Walk Overbridge
- Phase 3 and Phase 4
- Phase 2 & 3
- Trenching NIL and RBS areas
- BAA and A8
- Tree identification survey
- Bat survey in trees and structures

Work to be completed during the next period:

- Leith Walk Overbridge
- Phase 3 and Phase 4 (completion of all topo)
- Phase 2 & 3 (completion of all topo)
- Trenching NIL and RBS areas (completion of all trenching)
- Ground Investigation BAA and A8
- Tree identification survey

Issues:

- Coltbridge Viaduct survey finished with only 25% production. Engineers to assess whether this is sufficient, or whether a return visit is required.
- Delays in three areas due to method statement difficulties BAA, A8, 'Red' List contaminated sites.
- Delays to one area due to negotiation of access Forth Ports.
- Delays to one area due to contractor capability Network Rail. Alternative contractor being procured.
- Clarification required of contractual obligation to issue notification letters.

Information required in the next period:

None to report

6.2.15. Roads and Traffic Management

Follow up from Previous Reports

Roads are currently progressing the Charrette and Detailed Design. The first stage of this
work involves final resolution of the "red" issues with CEC and tie through the RDWG and
providing the p-way team with guidance on any track realignment requirements.

Activities during the period

- Detailed Design 1A, 2A, 5A, 5C
- St Andrew Square Charrette Await approval on option to take forward.
- Picardy Place Charrette In progress



- Leith Walk Charrette In progress
- Haymarket Charrette In progress
- TRO: Completing Preliminary Design TRO plans.
- TTRO: Completing traffic management. Coordinating with modelling team to assess plans.

Works completed during the period

· Nothing to report

Work planned for the next period

- Roads: Continue to advance detailed design, and continue to advance Preliminary Design for Charrette options.
- TRO: No anticipated work.
- TTRO: Continue with traffic management plans, and liaise with MUDFA contractor.

Work to be completed during the next period

Nothing to report

Issues

- Roads: From a design perspective we are progressing the design using the unofficial tie
 comments. We are not expecting further comments on the PD. Incorporation of more
 comments on the PD will compromise our ability to deliver to the programme.
- TRO: Programme is being revised based on anticipated receipt of finalised design drawings.
- TTRO: Traffic management plans require modelling output to inform CEC. It is understood that SDS modellers are leading this

Information required in the next period

Nothing to report

6.2.16. Environmental

Follow up from Previous Reports

Archaeological trenching works are almost complete in the Gogar area excluding the
areas we could not access. The tree survey has started in Roseburn corridor. We have
also been involved in the costing of invasive species treatment and badger sett
construction for advanced works. The design for artificial set construction is progressing.

Activities during the period

- · Tree Survey underway.
- · Drafting Archaeological Strategy for Line 1.
- · Archaeological trenching continuing in section 7.
- Completion of Metal Detection and Landscape Survey.
- Badger Mitigation strategy for Roseburn Corridor.
- Inputting to risk register
- · Preparing Infraco submission material.
- Providing information for advanced works costing.
- Preparing scope of work for Bat Survey.

Works completed during the period

No deliverables

Work planned for the next period

- SNH approval for line 2 badger mitigation.
- Commence and complete Metal Detection and Landscape Survey.
- Prepare scope of work for Bat Survey.
- Metal Detection and Landscape Survey reports.
- Artificial badger sett design.

Issues



- No access to NIL to undertake archaeological trenches.
- Unable to undertake trenches adjacent to Gogar church due to RBS landscaping.
- Urgent input from landscape architect required to take LHMP forward. Time critical.
- Awaiting confirmation from tie on location of artificial sett on NIL land outwit the LOD.

Information required in the next period:

None

6.2.17. Landscaping

Follow up from Previous Reports:

 Preliminary meeting held to co-ordinate Landscape works with the Report being prepared for the Roseburn corridor Environmental and Habitat Management Plan

Activities during the period:

- Meeting on site with the Tree Survey team has established defined scope of information required to establish the Arboriculture 'Balance Sheet'
- Input into Preparation of Habitat Management Plan

Works completed during the period:

None: ongoing

Work planned for the next period:

- Further Input into Roseburn Corridor Environmental and Habitat Management Plan
- Meet with CEC Arboriculturist to agree format for Arboricultural 'Balance Sheet'
- Accommodation works at Murrayfield to be priced as change order to initial contract

Work to be completed during the next period:

- · Agree Basis for Boundary Works Schedule
- Agree with CEC Arboriculturist Tree reference list work not completed last month due to CEC rep not being available. Date now agreed

Issues:

Landscape designs will commence following completion of Civils/Roads/P-way designs

Information required in the next period:

 Working arrangements needed with CEC to satisfy the approvals process – process in hand

7. PROCUREMENT

7.1. General

Bruce Ennion, continuing in a full time role within the **tie** tram team, has been working closely with the **tie** Design Manager in their selection, annotation and revision of the SDS Design Documentation required by **tie** to accompany the Infraco ITN.

Bruce also continues to support the **tie** procurement team, inclusive of TSS, and contributes to their production of the Infraco documentation.

Tony Goodyear, recently returned from accompanying the **tie** Tram Procurement Manager on a number of visits to factories and premises of the four Tram Bidders in Europe, is now actively involved in the review and assessment of the Tramco Tenders returned to **tie** on 16/10/06.

Alan Dolan continues to attend and contribute to Infraco/Tramco procurement process on an as required basis.

Kim Dorrington continues in his role of PB Detail Design Manager whilst also providing support and reviewing the technical documentation to be supplied for the Infraco ITN.



7.2. Activities

Work activities in direct contractual support to tie by Bruce Ennion.

- Continued review of the tie Employers' Requirements which have recently been updated and reformatted by tie/TSS.
- As mentioned above, a review of the SDS documentation to select those documents which are to accompany the Infraco ITN.
- Following receipt of comments, updating and finalising a number of tie Policy Documents.
- Enhancing a Schedule of Technical Particulars for inclusion in the Infraco ITN.
- Enhancing a Schedule of Responsibilities covering the three parties associated with the operational Tram System – Infraco, Transdev and Tramco.
- Speed read and comments of Infraco ITN.

Work activities in technical support to tie

- Alteration to all technical specifications documentation and drawings for Infraco ITN.
- Visits to Tramco factories with tie to give technical support to tie on Technical tram issues.
- The commencement of the review of the Tramco ITN which was opened on 19th October 2006.

7.3. Deliverables

 The issue of the Infraco ITN on 3rd October 2006 with a target supplementary issue in week ending 20th October 2006.

7.4. Issues

None to report.

8. PROGRAMME

8.1. General summary of Progress

SDS have not received acceptance or comments on the V4 baseline detailed design programme submission made on 5 October 2006.

Weekly SDS/tie planning meetings are now in progress.

8.2. Actual Activities this Period

SDS Infraco documentation has been submitted to tie on time with minimum disruption to the master programme owing to SDS utilising alternative resources where ever possible.

8.3. Planned Activities this Period

Please refer to Appendix F for actual and planned submission for this and the next period

8.4. Planned versus Actual in the Period

SDS are not in a position to provide actuals prior to the end of the month. Timesheets have not yet been completed, input & validated in the Oracle timesheet system. Timesheets can only record actual data and not forecast data.

8.5. Planned Activities next Period

Please refer to Appendix F for actual and planned submission for this and the next period Please refer to Appendix A for key Milestones for the next period



9. RESOURCES / MANPOWER

Please refer to Appendix B for the actual and planned hours.

10. FINANCIAL SUMMARY & CHANGE ORDERS

10.1. Change Notices

Please find below a list of Change Notices received by SDS as of the 27th October 2006

Tie Ref.	ie Ref. Date Received Title		Date Issued to Tie	Response Received Date	Status as of the 27 th October
CNS001	31-01-06	Phasing of the construction of the Edinburgh Tram Project	14-03-06		SDS has re-submitted an estimate to tie on the 15th May 06. Tie proposes 971k – against the estimate of 635 – the value is to be agreed.
CNS002 / 008	20-02-06	Office Lease	13-03-06	22-06-06	Change Order COS008 has been issued and the change is closed.
CNS003 & CNS004	27-02-06	TTRO and TRO legal support	03-04-06		SDS has formally responded to Change Notice CNS003 in letter issued 3rd April 2005, stating its position. Tie confirmed in change meeting No #3 that it will withdraw the change notices.
5	27-02-06	Removal of provisional additional work.	14-03-06	22-06-06	Change Order COS005 has been issued and the change is closed.
6	23-03-06	Inclusion of EARL utilities	05-05-06		SDS has formally provided a revised Change Estimate as requested by tie. A decision is very critical in order to progress the Design.
7	23-03-06	Decrease in utilities scope - line 2	05-05-06		SDS has formally provided an SDS Change Estimate to tie on the 5th May 06. SDS has not received a response to this yet. However, it is understood that the change is superseded by CNS006.
CNB 1	23-05-06	Interchange design and cost/ benefit	04-07-06	12-10-06	Part of Charrette Changes approved by letter ref 40.11.04. Dated 12 October2006. Tie to issued Change Order.
CNB 2	08-06-06	CCTV arrangements	04-07-06	12-10-06	It is understood from tie letters that this work will be included in the InfraCo Contract as contractor design. SDS has already progressed some of the design and request that the cost incurred is reimbursed by tie.
CNB 3	08-06-06	PI arrangements	04-07-06	12-10-06	Tie has requested a revised estimate from SDS. SDS to provide.
CNB 4	08-06-06	Back office systems	04-07-06	12-10-06	It is understood from tie letters that this work will be included in the InfraCo Contract as contractor design. SDS has already progressed some of the design and request that the cost incurred is reimbursed by tie.
CNB 5	08-06-06	Inspector/ conductors	04-07-06	12-10-06	It is understood from tie letters that this work will be included in the InfraCo Contract as contractor design. SDS has already progressed some of the design and request that the cost incurred is reimbursed by tie.

CNB 6	08-06-06	Common ticketing	04-07-06	12-10-06	It is understood from tie letters that this work will be included in the InfraCo Contract as contractor design. SDS has already progressed some of the design and request that the cost incurred is reimbursed by tie.
CNB 7	23-05-06	Tramstop locations	04-07-06	12-10-06	Part of Charrette Changes approved by letter ref 40.11.04. Dated 12 October2006. tie to issued Change Order.
CNB 8	09-06-06	Princes St/ Leith Walk tramway alignment	04-07-06	12-10-06	Combined with Chnage No 26
CNB 9	23-05-06	Branding	09-06-06	12-10-06	SDS believes that this change is withdrawn.
CNB 10	09-06-06	St Andrew Sq. alignment	04-07-06	12-10-06	Superseded by 10A.
CNB010A	19-07-06	St Andrew Sq. alignment	01-08-06	12-10-06	Part of Charrette Changes approved by letter ref 40.11.04. Dated 12 October2006. tie to issued Change Order.
CNB011	19-07-06	Shandwick Place stop	01-08-06	12-10-06	Superseded by CNS007 - Change No 18
CNB012	19-07-06	Princes St/ Leith Walk tramway alignment	01-08-06	12-10-06	Part of Charrette Changes approved by letter ref 40.11.04. Dated 12 October2006. tie to issued Change Order.
CNB013	19-07-06	Pîcardy Place tram road realignment	01-08-06	12-10-06	Part of Charrette Changes approved by letter ref 40.11.04. Dated 12 October2006. tie to issued Change Order.
CNB014	19-07-06	Leith Walk alignment confirmation	01-08-06	12-10-06	Part of Charrette Changes approved by letter ref 40.11.04. Dated 12 October2006. tie to issued Change Order.
CNB015	19-07-06	Foot of Leith Walk stop location	01-08-06	12-10-06	Part of Charrette Changes approved by letter ref 40.11.04. Dated 12 October2006. tie to issued Change Order.
CNS010	31-07-06	EARL- tram depot and stabling arrangements	18-08-06		Tie has requested named resources. SDS to provide
CNS011	31-07-06	EARL - bridge structure s33	18-08-06		Tie has requested named resources. SDS to provide
CNS013	31-08-06	EARL - ground investigation work	05-09-06		SDS to confirm value.
CNS009	05-07-06	Providing resource support to CEC			The change is understood to be cancelled.
CNS012	17-08-06	Risk register additional licence			Change estimate to be submitted
CNS017C	05-10-06	Revised Ocean Terminal Layout (OCT); Feasibility proposal for tram termination at OCT and future proofing to Newhaven;			
CNS019	16-10-06	Additional GI Scope for Granton to Newhaven Place			

10.2. Change Requests submitted by SDS

CRT001	15-05-06	New bridge over tramway at depot	16-05-06	SDS has formally submitted a Change Request the 16th May 06. SDS disagrees with tie's rejection of the change request and have responded accordingly.
CRT002	15-05-06	High level option at Baird Drive	16-05-06	SDS has formally submitted a Change Request the 16th May 06. SDS disagrees with tie's rejection of the change request and have responded accordingly.
CRT003	25-05-06	Procurement assistance to tie outside SDS scope.	25-05-06	Tie has certified 40k to Sep 06, tie to issued change order confirming the date to which the procurement support is required until.
CRT005/ CRT004	24-05-06	Modelling	15-08-06	



Progress Report No. 14

CRT004	24-05-06	Scope creep within CCTV system	30-05-06	Not part of SDS scope. No response received to CRT. SDS belies that this is now included in the InfraCo Design.
--------	----------	--------------------------------	----------	---

Please refer to Appendix D for a copy of the External Change Tracking Log

11. INFORMATION REQUIRED

The table below indicates the overall position regarding Requests for Information (RFI's) submitted to tie for response:

					Overdue		
Total No RFI's Submitted	RFI's Open	RFI's Closed	RFI's Closed since previous report	New RFI's since previous report	Under 1 week	1 to 4 weeks	Over 4 weeks
44	18	26	5	2	0	3	13

Please refer to Appendix H for a summary of Outstanding RFI's. **tie** should note that a large number are overdue by a significant amount of time, and we would ask that they take urgent action to rectify this situation.

We are continuing to formally advise tie on a 2-weekly basis of the RFI status.

APPENDICES

Appendix A	Key Milestones - Doc Ref ULE90130-SW-PRO-00010 V.4
Appendix B	Project Progress Summary - Doc Ref ULE90130-SW-PRO-00010 V.4
Appendix C	Labour Histograms / Manpower Histograms - Doc Ref ULE90130-SW
Appendix D	External Change Tracking Log - Doc Ref ULE90130-SW-SW-ADM-RRR-00001
Appendix E	Current CapEx Cost Estimate Summary Table - Doc Ref ULE90130-SW-PDF-00786
Appendix F	Submittal Programme and Deliverables Matrix - Doc Ref ULE90130-SW-SW-MAT-00009 V.13
Appendix G	Health and Safety Statistics - Doc Ref ULE90130-SW-PDF-00927
Appendix H	RFI Status Report - Doc Ref ULE90130-SW-RRR-00008 V.2

Appendix A: KEY MILESTONES



E90130 SDS Edinburgh Tram			SDS	Design F	rogram	ıme								7-Oct-06 1	12.51
C Activity Name	Original Start	Finish	03 10 17 24	August 2006 31 07 14 21 28	S 00	09 16 23 30	N 0 06 13 20 27 04 11 18 25	01 08 15 22 29 05 1	2 19 26 05 12 19 26 02	9 16 23 30 07 14 2	June 2007	309 2007 5 02 09 16 23 3	August 2007	-	C 17.71.00
LE90130 ULE90130 SDS Edinburgh Tram	9.0d 10460-07	23-Nov-10												100	П
ULE90130.02 EPWA - ENGINEERING Project Wide Activities				1 1		1				-	1				
										1	1				
ULE90130.02.03 EPWA - ENGINEERING Project Wide Activities ULE30130.02.033 EPWA - ENGINEERING Project Wide Activities	2.40 17-Novas					1			1 1	1					
ULE90130.02.9.29.4 TIROs	0.00 17-Nov-06			1											<u>.</u>
TTRO570 Issue MUDFA TTRO Order & Schedules To be ULES0130.02.9.98.00 Treation Permer (Task 200.6.1)	0.0d 0.0d 22-Nov-06	17-Nov-06					◆ Issue MUDFA TTRO	Order & Schedules To t	0						
ULESG130.02.9.09.00.25 Stray Current Menagement	0.00 22-Nov-06	22-1404-06								1					
A3430 Issue Stray Current Code of Practice (TPS 7DD)	0.0d	22-Nov-06					 Issue Stray Curren 	Code of Practice (TPS	700)						
ULE90130.10 Haymarket to Newhaven Road - Section 1 (Task300)				II				<u> </u>				Ĺ			<u> </u>
ULE90130.10.D FOW - NER - Section 1A (Task300.2) ULE90130.10.0.999 Sub-Section Wide	0.00, 2176, -01														
ULE90130,10,D,999.40 TTRO's	0.06 21-Nov-08			1 .1											
TTRO499 Issue Affected Reads Listing To Dundas & Wisen For INFRACO Works Section 1A	0.00	21-Nov-06					◆ Issue Affected Ros	ds Listing To Dundas &	Wilson For INFRACO Works	Section 1A					İ
ULE90130.10.C MDR - FOW - Section 1B (Task300.3) ULE90130.10.CS39 Sub Section Wide	0.00 21-W0W-05	21 (40):30	***********									į			-
III #90130.10 C 900.40 TTRICY (Test/200.3.7)	0.0d 21-Nov-06		1							. 1		1 1			
TTRDS00 Issue Affected Reads Listing For RNFRACO Works To Dundas & Wilson Section 1B	0.04	21-Nov-05					 Issue Affected Ros 	ds Listing For INFRACO	Works To Dundas & Wisson	Section 18					Î
ULE90130.10.B PSW - MDR - Section 1C (Task300.4) ULE90130.10.B.399 Sub Section Wide	C.Ca 21-4s-C5											1			
ULE90130,10.B.998.40 TTRO's (Tank300.4.7)	0.0d 21-Nov-06		**********	1			····································	i		········		†	***************************************		-
TTRC660 Isrue Affected Boads Listing For INFRACO Works To Dundes & Wilson Section 1C ULE90130:10:A HAY - PSW - Section 1D (Task300.5)	D.0d	21-Nov-05					 Issue Affected Ros 	its Listing For INFRACO	Works To Dundas & Wison	Section 1G					
ULESONSOTO A HAY PSW - Section To (Taskstons)	0.00 21-Yes-05	21-19w-00				1				1					
ULE90130.10.A.999.40 TTRO's	0.0d 21-Nov-06	21-Nov-06		<u>i i</u>				<u> </u>	<u>LL</u>			l			1
TTROTEO Issue Affected Roads Lieting For INFRACO Works To Dundas & Wilson Section 1D	D.0d	21-Nov-05				1	 Issue Affected Rea 	ds Listing For INFRACO	Works To Dundas & Wilson	Section 1D					
ULE90130.70 Haymarket to Roseburn Junction - Section 2 (Task4						- 1				1					1
ULE00130.70.A HAY - ROJ - Section 2A (Task400.2)	201 17/46/01									1					
ULES0130.70.LS69 Sub Socion Wide ULES0130.70.A.999.40 TTRO's (Tank400.2.6)	0.0d 21-Nov-06 0.0d 21-Nov-06		. as a result of the							1					1
TTR0740 Issue Affected Books Listing For INPRACO Works To Dunidas & Wilson Section 2A	0.06	21-Nov-06	***************************************	T	11		◆ Issue Affected Roa	as Listing For INFRACC	Works To Dundas & Wison	Section 2A				************	
ULES0130.70.4.014 HAY - ROJ ULES0130.70.A.014.400 Sub Station Haymarket (Task/400.2.6)	0.0d 17-Nov-06					1				1					
AS4S410 Islaue Haymarket Sub Station Design to tio for Approval	0.0d 17-Nov-06 0.0d	17-Nov-06				1	♦ Jasue Haymarket Sub	Station Design to te for	Approval	1	1				
ULE90130.20 Haymarket to Granton Square - Section 3 (Task500)		2170001				1				1					İ.
ULE90130.20.B CRT - CAP - Section 3B (Task500.3)			***********	1		1		1				1			-
ULESINS0.20.5.955 Sub Section Wide	Bibriothers 20.0				4					1					
ULERGI20.20.R.866.40 TTRO's TTRO'780 Issue Affected Roads Listing For INFRACO Works To Dundas & Wilson	0.0d 21-Nov-06 0.0d	21-Nov-06 21-Nov-06					♦ Issue Affected Rea	ds Listing For INFRACO	Works To Dundes & Wilson	1	1				
ULE90130.40 Roseburn Junction to Gogarburn - Section 5 (Task7	711	10-10-11								1					
ULE90130.40.A ROJ - BAR - Section 5A (Task700.2)		215100-01		†			······	·····				· · · · · · · · · · · · · · · · · · ·			
ULE90180.40.4.856 Sub Section Wide	0.00 10-nov-68									1	1				8
ULE90130.40.A.999.2 Boundary & Accomodation Works (Tsn)(700.2.2) SDS61150 Issue Murrayfeld Stadium Boundary & Accomodation Works	0.0d 10-Nov-06 0.0d	10-Nov-06 10-Nov-06					◆ Insue Murrayfield Stadius		day War	1					1
SDS61200 Issue Murrayfield Training Pitches Boundary & Accomposation Works	0.0d	10-Nov-06		<u> </u>		İ.	 ◆ Issue Murrayfield Training 	p Pitches Boundary & Ac	comodition Works						
ULE20130.40.A.100.402 Tram Step Murrsyfield (Teek/700.2.6)	0.0d 21-Nov-06		100000000000000000000000000000000000000												
A44000 Issue Munayfield Tram Stop Package for Prior Approval to tie	0.00 21-Nov-06	21-Nov-06					◆ Issue Murrayfield T	tem Stop Package for Pr	for Approval to Su						1
ULE90130.40.C EDP - GOG - Section 5C (Task700.4)	Our Zi-face N	21-140-01								1					
ULES0130.40.C.599 Sub Section Vide ULES0130.40.C.999.40 TTRO's	0.0d 21-Nov-06			ļ				<u> </u>				ļ			-
TTRO840 Issue Affected Rougs Liebing For INFRACO Works To Dundas & Wilson	0.00 2)-NOV-00	21-Nov-06					◆ Issue Affected Rose	ds Listing For INFRACO	Works To Dundas & Wilson						1
ULE90130.30 GDE DEPOT - Section 6 (Task870)								i i							
ULE90130.30.A GDE DEPOT - Section Wide										1					
ULES0130.30.A.959 DEPOT	4.00 30-Nong5			ļļ				ļ				ļ			ļ
ULE90130.30.A.998.03 Depot Main Building (Task970.1) ULE50130.30.A.998.013 Shed Superstructure (Task970.1.4)	0.0d 23-Nov-06 0.0d 23-Nov-06					-									1
AS280 Issue Depot Debaled Superstructure Drawings and Specifications ULES0150.30.A.999.13 Depot Lighting Design (Task870.8)	0.0d 20-Nov-06	23-Nov-06					◆ Issue Depat Detail	lad Superstructure Draw	ings and Specifications						1
A53040 kisue Yard Detelled Design Ughting Design	0.0d 20-Nov-06		3	<u> </u>			♦ Issue Yard Detailed	Design Lighting Design							1
ULE90130.50 Gogarburn to Edinburgh Airport - Section 7 (Task800)	0.00 2016 (0)	41 (05 0 0)					1								
ULE90130.50,A GOG - AIR - Section 7A (Task800.2)						1									1
ULE30130.50.A.999 Sub Section Wide	9.00 21-ligwed														200
ULES0130.59.A.998.40 TTRO's (Task800.2.5) TTRO990 Issue Affected Roads Listing For INFRACO Works To Dundas & Wilson	0.0d 21-Nov-06 0.0d	21-Nov-06 21-Nov-06	1				◆ Issue Attacted Rea	ds Listing For INFEACO	Works To Dundas & Wilson						
The state of the s	,777.X														
Actual Work Critical Remaining Work						_									_
Remaining Work ♦ ♦ Milestone				12.4	4.12			SDS							
				Page 1	of 1										_

Progress Report No. 14

Appendix B: PROJECT PROGRESS SUMMARY



27-Oct-06 16:36

ULE90130 SDS Edinburgh Tram

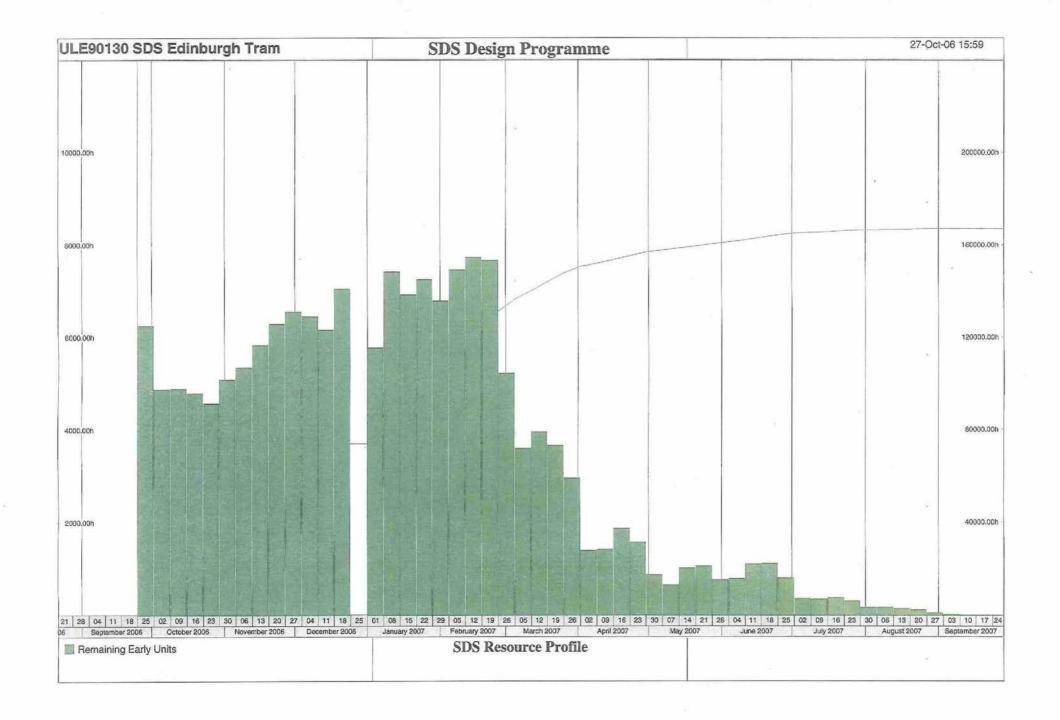
SDS Detailed Design Programme

ID	Budgeted Labor Units	Schedule % Complete	Performance % Complete	Actual Labor Units	Planned Labour Units	Earned Valu Labor Unit
Total	185244.32h	27.95%	16.72%	55189.45h	37163.72	27516.03
TJ Track	5843.50h	28%	18.14%	2449.75h	1644.15	1022.56
ST Street Lighting	1435.00h	10.94%	12.14%	565.50h	154.84	172.65
ME Planning Drawings Management	3131.25h	12.61%	0%	0.00h	394.70	0.00
IW Landscaping	1564.00h	0%	0%	0.00h	172.22	0.00
AC Boundary & Accomodation	1875.00h	0%	0%	0.00h	0.00	0.00
CO Cordoroys	960.00h	0%	0%	0.00h	256.44	256.44
MO System Modelling	795.00h	0%	0%	24.00h	0.00	0.00
JC Systems & Comms	4595.59h	25.81%	19.11%	1099.75h	1164.93	846.82
QU Quill Stakeholder Management	1328.00h	27.4%	27.4%	432.00h	363.84	363.84
PW Power	2612.00h	16.46%	11%	172.50h	379.74	303.80
EMC EMC	465.00h	27.27%	0%	0.00h	126.82	0.00
PROC Procurement Support	660.00h	46.09%	47.58%	371.05h	314.03	314.03
MAN Management	36976.00h	34.79%	20.97%	10881.22h	12610.69	12353.15
SE Systems Engineering	5199.00h	35.54%	35.54%	1455.00h	818,89	818.89
NO Noise & Vibration	300.00h	0%	0%	0.00h	90.36	90.36
FJ OLE	3120.45h	14.93%	11.28%	683.75h	395.65	258.47
PM Structures	24737.50h	31.61%	16.5%	3850.93h	7867.53	3966.81
DP Utilities	5266.44h	33.09%	24.39%	919.00h	1820.30	1250.40
TA Track Auxillary	546.00h	35.54%	35.54%	208.50h	194.06	194.06
C Configuration Mangement	321.50h	26.71%	26.71%	125.50h	85.88	85.88
IB Architecture	24329.58h	14.78%	4.87%	1322,50h	3142.05	895.77
Architecture	1781.25h	26.71%	38.57%	1025.00h	475.81	687.03
Depot	8629.83h	29.11%	0.08%	69.00h	2376.08	7.65
Tram Stops	11100.00h	0%	0.45%	94.50h	0.00	86.25
Sub Stations	2818.50h	10.91%	3.76%	134.00h	290.15	114.84
H Halcrow	59183.51h	8.62%	7.37%	30628.50h	5166.61	4322,10
Environmental	414.00h	100%	50%	90.00h	300.72	100.00
Management	6935.00h	35.54%	35.54%	17362.00h	2464.85	2464.85
TRO's	1261.00h	72.4%	61.3%	854.00h	913.00	773.00
TTRO's	2440.00h	41.8%	23.24%	500.00h	1020.00	567.00
Roads	24449.51h	0%	0%	7234.50h	0.01	0.01
Utilities	2750.00h	0%	0%	0.00h	273.03	260.00
Structures	20934.00h	1.01%	0.82%	4588.00h	195.01	157.24

(P3e Direct Output)

Appendix C: LABOUR HISTOGRAMS / MANPOWER HISTOGRAMS





Appendix D: CHANGE CONTROL REGISTER



EDINBURGH TRAM NETWORK PROJECT EXTERNAL - CHANGE CONTROL REGISTER

		5		2	IGE REQUI		ò		HANGE NO		E u	S CHA	NGE EST	INVA I E		ANGE O	TUER	The state of the s
Tio Changa No (if Applicable)	景	nige Descripii	glnater	ange Request	ic Data	N. P.	Charge Notice No.	Jo Dinto	e Race)ved	o Dure.	Status (complete if all info is available and nothing else is	inge Estimate	ar Date	1	nige Order tiber	ue Date	*	
2	20	Š	ő	Ē	1	atg.	ő	2	eg .	a de la composition della comp	Str.	Ē	1	- E	65	<u>g</u>	PRS.	Comment
NA	Master Programme	Change to key proprieties milestone dates for MUCFA, INFRACO, and TRAMICO	J Honsen	80001	15-Nov-05	Response Response sierce dates Shidust	HA.	n/A	NA.	NA.	59A	HA.	N/A	HA	N/A	N/A	N/A	
202	mans	Policy of sycres py Trams	tie	89000	02-Doc 05	Property vacante () doz 63 Property	HA	NA	10%	HA.	HA.	NA.	THA.	HA	II'A	NW.	RA.	
014	Fraction Options	Assessment of afformative tracher options	560	00003	62/DAC-05	recensed the decret Ausperer	HA.	N/A	N/A	194	1904	N/A	NA	n'A	n _A	NA	NA	reat issued - pending Ff.t approval
074	Car Parking	Crews Fatt - BAE Car Paning	tie .	60004	87-Cec-05	retained 13 dictri Response	BA.	10%	18/A,	BA.	NA:	NA	12%	IFA	10A	NA.	HA	
050	Dougn Standard	Design Standard for Tram Revision of Code of	tie	00005	100000000000000000000000000000000000000	des 95 Response missed 13	HA	на	H/A	IFA	290	R/A	10%	8/4	MA	NA	N/A	Not issued - pending PM approved
016	Cade of Construction	Construction Practice ETL1 5.2 None 5 Winsten	tier	60000	TANA	dec 65 Responso received 13	HA.	HW	N/A	NA.	NA.	HA	tiva	NA	15/4	NW.	, MA	
015	Noise Vibration	Policy Referation of Tumback Facility from Muray Feld to west of Bulgreen Rd	tie tie	60007	62-Dec-65	druich Brospinen researed 13	105	N/A	B/A	HA.	NA NA	HA.	FPA.	HA	NA.	HYA.	N/A	
073	Turnback Facility Construction Workside	NHS Lathon Princing Trust Construction Worksite	tie	00000	62-Dec-65 62-Dec-65	RESPONSE (ECOVED 1) dec 05	19A RA	NA.	16/A	N/A N/A	N/A	NA	N/A	NA NA	NA NA	ANA.	NPA.	
032	Bus/Tram Interchange	Crewe Toll busilinani intenstatinge	Go.	25010	02 Dec-05	Rusponse recoved the dec 65	NA.	N/A	N/A	N/A	MA	NIK.	NA	RM.	19A	MA	HM	
093	Hightow Option	Bard Drive High/Low Option	tie	00011	02-Dec-05	Hisporce recoved 13 due 65	N/A	NA.	IVA.	hex	NA	NIS	16/A	N/A	MA	NN	W.	
301	Realgoned	Haymarket Yards Ro- infigureral	5c	66812	02-Dec-05	Rasponso respect 13 doc#5 flasponso	10%	10%	NA	N/A	NA.	NA	taa	N/A	18A	N/A	ANA	
54	Track Layrol	St Andrew Square, Track Layout & Interchange Aligement through Leith Doors	Ser	60013	02-Dec-05	received 13 aloc 65 Primports	N/A	RPA .	HA.	N/A.	14/5	NM	NA.	HPA.	18A	FBA	fr/A	*
005	Algorithm	(Newhaven - Constitution Street)	Ske	00014	07-Dec-05	duc 05 Response	189A	100.	TU'A	TUA	N/A	197A	NA	N/A	MA	NA.	19/A	
010	Lew Floer Trums	Partial Low Floor Trams	64	06015	02-Dec-05	dec 05 Responda recount 12	N/A	7HA	IVA	10/4	N/A	10%	NA	8%	NA	NA	197A	Not issued - pending PM approval
013	Harard Zone Segregaled Cookal	Huzard Zone Policy Segregated Central Running	tin	00016		dec 05 Mesponsis recovered XI	NM	N/A	HIA	N/A	NA	1MA	NA	N/A	HA	NA	NA	CR raised by lie not authorised
018	Sepregated Central	Frances Street Sagreguled Central Punning	60	00017	Terrana rate	dic 65 Response secound to	NIA	NW.	N/A	N/A	RPA.	MA	N/A	N/A	HA	NA	f#A.	
028	Franciscops:	Relocation of Transleps on Princes Street	tio .	00018	02-Dec-05	Bos 05 Response necessed 13 Bot 05	NIA NIA	SUA	ANA ANA	78A	N/A	186. 186	NA.	ANA	NA.	NA NA	18/A	CR raised by sie not authorized
048	Skoy Current	Quidelines for Control of Stray Current	lie .	00019	79-15 Y.	Rasporde seconed 13 dep 05	184	NA	N/A	AUS	N/A	NA.	N/A	nn.	HA.	NA NA	18A	
023	Gosartson	Cogartery new Depot Location		00021	02-Dec 95	Hosponia secessed fill dec 05	N/A	N/A	ж	TUS	NA	1805	BIA.	NA	N/A	HA	18A	CR raised by lie not authorised
002	Re-alignment	Gyle Shopping Corbre Realignment	tie	90022	02-Dec-05	Response social fill 610 (%	NA	1843	NA	185	N/A	18/5	NA	N/A	N/A	teA.	FRA	
310	Agreement	Edinburgh Airport Agreement	tie	80023	02 Dec 05	Responso noceword 13 dog 99	18/4	NA.	18A	18IA	N/A	MA	H/A	NA	NA	HA	N/A	CR caised by tie eat authorised
800	Ancient Monument Regulations	Removal of desapplication of acheduled ancient monument engalations	tie	89024	02-Dec-05	Response misroed 13- eco-35	HA:	NA	NA	NA	NA	N/A	N/A	HA	NM	NO.	18/A	
033	Traffic Signal	Traffic Signal Priority level 1 for Train: Elphinstone Group Side	tie	60025	62-Dec-05	received 13 deg 85 reserved 13	NA.	N/A	MA	NA	NW	10A	N/A	NA.	N/A	пж	16A	
947	Side Agreement	Agreament	tie	00026	5000000	dee BS Response resumed 13	N/A	N/A	180	NA	NA	N/A	MA	NA	N/A	N/A	N/A	
046	Side Agreement	GCM Side Agreement	Sie	60027	02-Dec-05	esciti	N/A	N/A	HA	\$4rA	NA	N/A	NA	NA	NA	N/A	1604	
094	Re-digenent	Pageston Rendament Planeture Street Re	Sec.				PHA.	10%	AND AND	TOTA	HA HA	100	MA.	HOA	800	100	189	Datescened and 9 10 PS
020	Pro Aligerteni Vellopo	15007 # 750 VOC	161				10%	30%	HIA	10%	HO	10%	NVA.	10%	100	140h	100	Mod recolumn grant 14/10/05
972	Leik Digat	twelv Dapid Tone Digitally	-				him.	100	80	366	Bla	mA.	HA.	NA.	88	RW	900	Mategonian - part ph/10/ps
020	Convarintiations	tise of each for cate manufactures	tion .				N/A	3800	MA	NA	rave.	NA.	Hot	NA	160.	BIA	2008	Moleculated and ordered
037	Truck Lagura	Bottom of Letty Work Box/Toxic tolerchange	the .				3604	NV.	NV.	8103	FUUL	19.4	98/A	2006	16.6	RS.	ann.	Mar received - ages 00/10/05
1100	trus-	Coulty ConTago, ask. Agencest	610			_	78%	100	FHA	pris.	1945	MA	HA:	260	BIS	isa	16.5	Historicatived over 67 KGrass
843	Car Paning	Scottal Car Parking	- Est		-	-	NIA.	4800	806	BKA	tale)	HA	MA.	200	NA	BA	HIN	Photocoured
055		Honor Properly Unit Front	- to			-	160	38/6	TOA	197	. XXX	199	NA.	TEA	RIT	1025	HA.	First received
070	Transitusper Transit Laperet	Support of Acceptance of Acceptance of Acceptance of Acceptance of St. Acceptance of St. Acceptance of Acceptance	Fig.				HA	HA.	100	HA.	HA.	THE.	NA.	NA NA	100	HA.	BA BA	Plot received - gent QSF11/QS
ure.	The Laren	BOOM B BASE PLOS (E.E.		02-1-1			-T. 2.5	H-S		gdiNumbe	1011			No.	100	E III	No.	Clarification issued 16 Feb 06 and
																		recived by PB the 20Feb06 Draft CNS001 Issued 10 Mar 06.
																		Comment by JH - 20ct 2006 Tile letter issued 12sep 08 proposi saving of 971,707 - 598 needs
N5001	Reduction in Scope	Reduction in Confust Scope Revised Estimate	tio	NUA	N/A	N/A	CNS001	31-Jan-06	10-Feb-06	28-Feb-06	Complete	CNEO01	14-Mar-06 16-May-06	Complete Complete				resolution. Most likely to go into dispute.
																		Change Cancelled, Superselfed b Change CNS 008 due to that lie in now taken up the lease at chypoin
NSC02	Office Lease	Office Lease	5a	NA	NV	N/A	CNS002	16 Feb-06	20-Feb-06	10-htar-06	Comprete	CNE002	13-Mar-06	Complete	_			Instead of PB. The latter resued 12 sep 05 requestor sets to provide an appropriate.
NBC03	Traffic Management	TRO Legal Support	Ke	NA	N/A	N/A	CNS003	24-Fab-06	27-Feb-06	17-Mar-08	Congrete	CNE003	03-Apr-06	Complete.	-			value to deduct for the works. The letter issued 12 sep 06 requestor sids to provide an appropriate.
CALL DESIGNATION OF THE PARTY O	Traffic Management	TTRO Legal Support Revious of Provincional	fo.	NA	N/A	NIA	CNSQ04	24 Fab-0fi	27-Feb-06	17-Mar-05			03-Apr-06	Complete	-			value to deduct for the works.
NS006	Reduction is Scope Utilities	Additional Work Inclusion of Utility Diversions EARL	tie .	N/A N/A	N/A N/A	NA NA	CN5005	24-Fab-06	27-Feb-06 23-Mar-06	17-Mar-06 10-Apr-06	Complete	CNEGGS CESGG6	14-Mar-00 05-May-06	Complete Complete				CES006 revised and reissued 06 Sept-06
NS007	Usibes	Increase in Unity Scope	tie	N/A	NIA	N/A	CNS097	21-Mar-06	23-Man-08	10-Apr-00	Complete	1	05-May-08	Complein				
NS008	Office Lease	Office Using with he	tie	NIA	NA	NIA	CNSCGB	27-Mar-06	29-Mar 05	16-Apr-06	Complete	CNE008	04-May-08	Complete				
	Structure	Change Request - New Bridge ever kamissy at Depot Change Request - High Level	J.Hansen	CRT-06- 00001 CRT-05-	16 May 66	Complete		-										
	Structure	Option at Barro Drive Procurement Assistance to the Life outside SOS Scope of	J.Hansin	00001 CRT-SW-	16-May-06	Complete	_				-							
R5003 R50040 S005		Week. Letter vs 805 Junction	A Dolan	6003	25-May-06	Complete Complete												
4000	Modeling System & Conins	Modeling Scope Scope Chery within CETV System	A Dolan	CRT-SW- CCC1	30-May-06 30-May-06	Complete												
		interchange Design and Cost-Benefe	TEL	8NA	N/A	104	CMBack	10 tru 44	23-May-66	16 his ex	Cincin	OF SACT	10.00	Concete				Fact issued to be 16th June Secu- issue 4th July Third Revised estimate

Parsons Brinclemolf ULEGO 30 SW-SW-ADM RIDE GOOD

Tie Change No (If Applicable)	Topic	Chings Description	Organion	Change Request No	Issue Date	Status	Change Nodre No.	lesua Data	Data Received	Date Dub	Status (pomplets if all first is available and netting also it	Charge Estimato No.	Issue Date	Siatus	Change Order Number	lastic Date	Status	Continent
CBS002	System & Commis	CCTV Anangements	TEL	NW	INA	NA	CNB002	00-nut-30	03-Jun-05	26-Jun-06	Complete	CE5602	04-Jul-06	Conylete				First issued to be 16th June
CB9003	System & Commis	Pl Anwigements	TEL	N/A	NA	NA	CHECOS	07-Jun-06	05-Jun-08	26-Jun-06	Complete	CES003	04-Jul-06	Covolete				First is sund to be 16th June.
CBS004	System & Comma	Back Office Systems	TEL	N/A	NIA	N/A	CN8004	07-Jun-66	05-Jun-06	26-Jun 66	Constella	DESCO4	04-Jul-06	Complete				First issued to the fillfulleng.
085005	System & Comins	Assignator / Conductors	TEL	N/A	NA.	N/A	CN9005	08-Jun-06	08 Jun-06	26-Jun-06	Complete	CE5005	04 Jul 06	Complete				First issued to be 16th June.
CBS006	System & Comms	Common Ticketing	TEL.	N/A	NA	N/A	CNB006	05-Jun-06	00-Jun-06	26 Jun 06	Complete	DES008	04 Jul 06	Covolvite		1		First issued to be 16th June.
CBS007	Tramstops	Sings Localisms	TEL	NW	HA	NA.	CH8007	19 May-06	23-htsy-06	10-Jun-00	Complete	CES007	19-Oct-06	Complete				First issued to be 16th June. Second insue 4th July. Third Revised extension.
C55008	Track Layout	Princes Street & Leith south Transacky Angiovered	TEL	N/A	N/A	NA	CH8008	09-Jun 08	09-Jun-06	27-Jun 06	Complete	CESCOS	19-Oct-56	Complete				First issued to be tell June. Second lesue 4th July. Third Raylsed extended now combined with CESO14
CB5005		Brancing	TEL	NA	PEA	NA	C1:8009	19-May-06	23-May-98	10 Jun 06	Conclete	CE5609	09 Jun-06	Complete:	76'A	INA	AM	Withdown by Ne 2809/06, as duplicate of work undertaken by EARL
CBS010	Track Layout	Si Andrew Square Alignate an	TEL	N/A	NA.	NA.	CNB010	62-Am-66	09 Jun 06	27-Jan-06	Constete	CES610	04-hit-06	Complete	N/A	NA	NA	Supervisided by CESS16A
	Track Alignment	St Andrew Square Alignment	TEL	1255	PAGA	N/A	CNEGIGA	1/4-Jun-06	19-348-05	06-Aug-06	Complete	CES010A	19-Oct-08	Complete				First Issue 1st August
	Stop Location	Shandwick Place Stop. Location	TEL	NA	NA	N/A	CNB011	03-361-06	19-34-08	06-Aug-00	Covalens	CES011	01-Aug-06					CapEx Cost to be issued to fic
CBS012	Track Alignment	Pronocs Street & Lain walk Transkry Algebrand	TEL	N/A	N/A	N/A	CHB012	03-Jul-06	19-Jul-00	06-Aug-06	Complete	CE5012	19-Oct-06	Complete				First Issue 1st August
CBS013	Track Alignment	Picardy Place Transfeart Replayment	TEL	N/A	NA	N/A	CNB013	03-Jul-06	19-Jul-06	06-Aug-06	Complete	CES013	19-Oct 66	Complete				First Issue 1st August
CB8014	Track Alignment	Lustin Wurk, Alignophina confidentiation	TEL.	N/A	N/A	NA	CN8014	03-Jul-06	19-Jul-06	06-Aug-06	Complete	CES014	19-Oct-08	Conglish				First is such to be 16th June. Second is saw 4th July. Third Revised estimate - now combined with CESCOS
CBS015	Step Location		TEL	NA	NA	N/A	CNB015	03-Jul 06	19-Jul-00	06 Aug 06	Complete	CES015	19-002-06	Complete				First Issue 1st August
CNS010.	Structure	(FARL - fram Depot and Stabling Attangments	tin	NIA	NA	N/A	CNS010	28-Jul-06	31-Jul-06	18-Aug-06	Complete	CES010	18-Aug-05	Complete				
CNS011	Structure	EAPL - Bridge Structure 533	Eq.	NA	N/A	N/A	CNS011	28-Jul-06	31-Jul-06	18-Ang-06	Complete	CES011	18-Aug-08	Complete				
CHS013	Ground investigation	EARL Ground investigation Work	tig	N/A SW-CRT-	NA	N/A	CN5013	31-Aug-06	31/03/2006	18-Sep-06	Complete	CES013	05-Sep-08	Complete				
	Noise	Noise Survey - ICAS	A Dolan	00005	05-Sep 06	Complete												
	Noise	Hote Suney - NULAP	A. Dolan	02-CRT- 00066	02-Sep-06	Complete												
	Tram Alignment	Mew Edinburgh Ltd Proposed Development Levels	K. Shudall	05 CRT- 00002	25-Oct-68	Complete												
	Littles	SociPail Depot - tony Gee & Partners Design coordination	K Shiidall	05-CRT- 00003	25 Oct 06	Complete												
	GogarBum	GogarBars Parktership report	K, Shudat	05-CRT- 00004	25 Oct-00	Complete												

Appendix E: CURRENT CAPEX COST ESTIMATE SUMMARY TABLE



EDINBURGH TRAM NETWORK

OPTION: AIRPORT TO NEWHAVEN PLUS ROSEBURN TO GRANTON SQUARE CURRENT COST STATUS

Infraco

Date: Sep-06

REF	WBS CODE	DESCRIPTION	FEASIBILITY UPDATE JUN '05	COST MODEL/COST CHECK FEB '06	Prelim Design Sept '06 (SDS Est Rev 8 Issue 2)
	B1	Track and Formation	57,705	64,330	56,876
	B2	Tram Stops	8,980	8,860	3,493
	B3	Depot	15,688	17,040	16,021
	B4	Highways	24,791	59,130	13,801
	B5	Buildings		,	1,347
	B6	Structures	23,110		20,652
	C1	Supervisory and Comms + Onboard Comms	7,455		10,821
	C2	Comms			
	C3	Tram Stop and Park & Ride Equipment			
	C4	Depot Equipment			
	D	E & P	19,328	49,330	19,583
		Prelims & Contractors Design	47,931		25,836
		Traffic Management			2,153
		Training / Spares			350
=		Network Rail		5,800	
		Network Effect	1,000	1,000	
		Efficiency Saving	-10,000	-10,000	
		Errors in SDS Sheet			
			195,988	195,490	170,933

PERIOD MOVEMENT	REQUIREMENTS DEFINITION APR 06 (SDS Est Rev 5)
-122	56,998
108	3,385
1,649	14,372
-10,708	24,509
-581	1,928
-16,787	37,439
3,614	7,207
C	
0	
0	
-311	19,894
-3,996	29,832
928	1,225
0	350
C	
0	
C	
.0	
-26,206	197,139

COMMENTS
Reduction due primarily due to better understanding of the actual trackform types to be adopted. Therefore more certainty of cost.
Origanally priced based on exemplar stop drawings. Actual arrangements
Actual Depot building costs has reduced. Increase due to excavation costs of depot site being moved from Structures into this section.
Reduction due to prelim design giving more detail of works involved. Risk item should however be raised as volume quantities are based on assumptions not cross-sections. No cross-sections available at time of
Result of 1 Substation being deleted.
Reduction due to prelim design giving more detail of works involved. Risk item should be raised as the designs of most of the structures are not fully
Item increased after comparison checks were carried out against comparable projects.
Result of 1 Substation being deleted.
Reduction is a function of the reduced capital works above.
0.1

Appendix F: SUBMITAL PROGRAMME AND DELIVERABLES MATRIX



September 2006						33.6			October 2006		42			44				November 2006	1				Esia	William I		140
		Ter l		lus .	6	_				jo jo	T		yu.	-					1 2			7	0			1
iccion	ej)	102500	Tetto	Docum	No. of DociDes	nned	Forecast	Actual	Section	de reason /	State	Title	Docume	No. of Doc/Dw	Planned	Forecast	Actual	Section	lie	issue Rev	Titto	Dacum	No. of Dac/Dw	Planned	Forecast	Acous
wer Place Bridge		FA	Issue AIP Decument & Drawing to TAA	DWG	3 03	2-Jun-95		14-Sep-06	Trans Simulation	*	FA.	tram mass variance impact on machine 2 energy needs	icai REP	1	30-Jun-05		09-Oct-0	INFRAÇO 2 Bidders		A	Issue Supplementary Design information to tie for Package 2	xux.		27 Nov-05	27 Nov-06	
Georges School Access Bridge		FA	Essue AIP Document & Drawing to TAA	DWG	1 00	2 Jun-05		14-Sep-06	Retaining Wall (Murrayfield structure 3)	×	FA	2 Issue AIP Document to be	pwo	1			95-Oct-08	Engineering Project Wide - Modelling		FA	Issue Modeling Report to CEC	REP	1	09-Nov-65		
Georges School Footbedge		FA	Issue AIP Document & Darwing to TAA	DWG	1 100	2-Jun-06		14-Sep-06	Retaining Wall (Murroyfield	19	FA	2 Issue AIP Occument to CEC	DWG				05.00:00	Engineering Project Wide -		FA	Approved * Permission to Trigger Stat.	REP	3	27-11ov-06		Г
avolsken Dykes Bindge		FA	Issue AIP Document & Drawing to TAA	DWG		5-Mtw-05		14-Sep-06	South Gyle Access Bridge			2 Re-lasue AIP to TAAllie	DWG		04-Sep-36			Engineering Project Wide - Traction Power		FA	Issue Stray Current Code of Practice (TPS 700)	REP	-	22-Nm-06		
raiglesh Onve Bridge	\vdash	FA										o - become an arrangement					26-0:0-0	Engineering Project Wide -				REP		14-Nov-06		1
		751700	Issue AP Deciment & Drawing to TAA	DWG		3-May-06		14-Sep-06	A6 Underpass Engineering Project Wide -	-	FA	 Re-Issue AIP to TAA/tie Issue Updated Stray Current Managem 	DWG	1	04-Sep-05		1	Engineering Project Wide -	-	FA	Issue Dynamic Simulation Report Issue Final Technical & Pantograph	100000	12	- Harriston		t
oliday Irin Access Bridge	1	FA.	Issue AIP Document & Drawing to TAA	DWG	1 25	May-06		14-Sep-06	Traction Power Engineering Project Wide -	-	FA	Strategy (TPS 34) Issue Outline Project Specification (OP	REP		06-Dec-06		10-0:0-0			FA	Specifications Submit Formal Possession Request to	DWG		14-Nov-65		+
Greath Road South Bodge	-	FA	Issue AIP Document & Drawing to TAA	DWG	1 2	26-May-06		14-Sep-06		2	FA.	"Traction Power Distribution" (TPS14)	SPEC	1	15-Sep-06	_	19-Oct-0	Network Rail Activities		FA	Network Rall Issue Affected Roads Listing For			03-Nov-05		+
busell Road Retaining Wall One		FA	2 Issue AIP Document to lie	DWG	2 31	May-06		96-Sep-06	FOW - NER (Section 1A)		FA	Issue Utilities PD to SUCs	DWC	8	16-Oct-06	_	23-Oct 0	FOW - NER (Section 1A)		FI	INFRACO Works to Duedas & Wilson Issue Affected Roads Listing For	REP	3	214tov 66		+
tursed Road Retaining Wall One	1	FA	2 Insue AIP Document to NR	DWG	2 31	1-May-06		06-Sep-06	MDR - FOW (Section 18)		FA	Issue Utilities PD to SUCs	DWG	6	16-Oct-08		23-Oct-0	MOR - FOW (Section 18)		FT	INFRACO Works to Dundas & Wilson	REP	1	21/Nov-06		_
ussell Road Retaining Wall Two		FA	2 Issue AIP Document to NR	DWG	1			06-Sep-06	PSW - MOR (Section 10)		FA	Issue Utaties PO to SUCs	pwo	8	13-Oct-05		23-Oct-0	MDR - FOW (Section 18) SLaith Walk CNB014		FA	Prefiningry Design Submission	DWG		30-Nov-06		
urssell Read Retaining Wall Two	×	FA	2 Issue AIP Document to te	DWG	1 31	1-May-05		06-Sep-06	HAY - PSW (Section 1D)		FA	Issue Utilities PD to SUCs	DWG	6	16-Oct-06		23-Oct-0	MOR - FOW (Section 1B) Foot of Leith Walk CNB015		FA	Prehmenary Design Subnivision	DWG		28-Nov-00		
Aumyfield Stadium Retaining Wall Murrayfield structure 2)		FA	2 Issue AIP Document to TSS/CEC/se	DWG	1			28-Sep-06	Engineering Project Wide	×	FA	Issue Modelling Report to tie	REP	- 31	13-00:06			PSW - MDR (Section 1C)		F)	Issue Allected Rougs Litting For INFRACO Werks to Dundas & Wilson	REP	1	21-Nov.00		1
Depot DLB		FA	Issae Preliminary OLE Design	PLAN	1 20	0-Apr-08			Engineering Project Wide - Modelling		E)	(For issue of Business Case to Scottish Executive)			13-Oct-06			PSW - MDR (Section 1C) St Andrew Square CNB010		FA	Proteinary Division Submission	DWG		20-Nov-66		
Gegar Burn Bridge	T.	FA	2 Re-issue AIP to TAVIlle	DWG	-	4-Sep-05		04-Sep-06	Engineering Project Wide -		FC	Issue MUDFA TTRO Order & Scheduli	_		23-Od-06			PSW - MDR (Section 1C) Picardy Place CNB013		FA	Preliminary Design Subimission	DWG		15-Nov-06		Т
NO.		FA			2	zep-us			Traffic Management Engineering Project Wide -		FA	to tie issue Interior TPS Scheme Developme			15-Da-06		1	HAY - PSW (Section 10)		Pi	Issue Affected Roads Listing For INFRACO Works to Dundas & Wilson			125010050		1
Earl Bridge	+	77.	2 Re-Issue AIP Document to GEC/TSShie Close out PD issues and re-issue to	DWG		onivers i	_		Traction Power Engineering Project Wide -			Report (TPS 3DD8) Issue DC Feeding and Sectioning					-				- Carrier of the Control of the Cont	PEP	1	21 Nov-06		1
ROJ - HAY (Sedion 2A)	+	FA	SUCX	DWG	15	5-Sep-05		08-Sep-06	Traction Power Engineering Project Wide		FA	Diagrams (teration 1) Issue of Substation Equipment	DWG	1	27-Oct-06		1	ROJ - HAY (Section 2A)		FG	First issue of Utilities DD to SUCs issue Affected Roads Listing For	DWG	6	24-700V-06		+
reingstar Substation Design	+	FI	Re-issue to CEC	DWG	2 28	B-Jul-05	05-Sep-06		Traction Power Engineering Project Wide -	*	FA	Specification Update 1 (TPS 18) Issue Updated Earthing and Bonding	SPEC	1	30-Oct-06		-	ROJ - HAY (Section 2A) Substation Haymarket		FA	INFRACO Works to Dundas & Wilson	REP	1	21-Nov-06		H
Disrupter Island Platform Stop	-	FA	Re-issue to CEC	DWG	1 21	8-101-95	05-Sep-06		Traction Power	×	FA	Policy (TPS 8DD) Issue Substation and Trackside Interface	REP	1	31-Oct-06	_	-	Terrace St George's Schoot Access		FA	Issue Substation Design to the for approval Issue Structure Detailed Design Package	DWG	30	17-Nov-06		+
algreen Road Bridge	1	FA	Revision AIP to TAA	DWG	1 30	-Aug-05	11-Sup-06		Engineering Project Wide - Traction Power	×	FA.	Demarcation Diagram (TPS 26)	DWG	1	96-Oct-05		1	Bridge		FA	to CAT I Checker	DWG	30	14-Nov-06		-
Ad Retaining Wall	×	FA	Re-Issue AIP to be	DWG	1 18	LAug-06	08-Sep-06		MOR - FOW (Section 18) Leith Walk CNB014		FA	Feasibility Drawings (with Statement Assessment) with CEC for Approval			02-Oct-08			CRT - CAF (Section 38)		FA	Issue Affected Roads Listing For INFRACO Works to Dundas & Wilson	REP	1	21-169-06		_
Jeps: Access Road Bridge		FA	Re-issue AIP to TAA	DWG	2 25	5-Aug-06	08-Sep-06		MDR - FOW (Section 18) Fool of Leits Walk CN8015		FA	Feasibility Drawings (with Statement Assessment) with CEC for Approval			02-Oct-05			CRT - CAP (Section 38)	x	FA	tissue Affected Roads Listing For INFRAGO Works to Dundos & William	REP	1.	21-Nov-09		L
TRAMCO 2 Biddens		F)	BAFO from 2 Bidders	XXX	01	1-Sep-06	01-Sep-08		PSW - MDR (Section 1C) Princes Steel CNB012		FA	Feasibility Drawings (with Statement Assessment) with CEC for Approval			02-Oci-06			Morraylield Stadium		FC	Issue Morrayfield Stadium Boundary & Accomodation Works to be			10-Nov-05		
Engineering Project Wide - Erwischmentus		FI	issue Contaminated Land Remediation Action Plan to Contractor	PLAN	1 25	5-Sep-06			HAY - PSW (Section 1D) Charrette Changes Haymarket		FA	Feasibility Drawings (with Statement Assessment) CEC For Approval			64-Oct-06		1	Murrayfield Training Piccless Retaining wall		FC	Issue Marrayfield Training Pitches. Boundary & Accompdation Works to hir			10-Nov-08		
Engineering Project Wide - Traction		FA	Issue Risk Register Update Associated with TPS (TPS 15)	REP		2-Sep-06	/		ROJ - CRT (Section 3A)		FA	Issue Utilidas PO to SUCs	DWG		16-Od-06			HAY - BAR (Section 6A)		FA	First Issue of DO to SUC's	ows	9	244tor 65		
Engineering Project Wide - Traction	T	FA	Issue Zone of Influence Report	REP		8ep-05			CRT - CAP (Section 38)		FA	Issue Utilities PD to SUCs	DWG		16-Oct-06			Tram Stop Murray/field		FA	Issue Train Slop Package for Pivor Approval to be	DWG	10	21-Nov-05		T
TOTAL TOTAL				1000														Roseburn Street Visitors		FA	Issue Superstructure Package to CAT III	DWG	10	13-Nov-03		
(RO (Section 1)	+		Submit to GEC for Officer Approval Issue Affected Roads Listing For MUDPA	DWG		9-Sep-05			CRT - CAP (Section 3B) Roseburn Street Visidual		FA :	Issue Utilities PD to SUCs Issue Superstructure Package to CAT	DWG		16-Oct-06		_	Superstructure Murrayfield Underpasa			Checker Issue Detailed Design Package to CAT II					1
FOW - NER (Section 1A)	+	FI	Works to Dundos & Weson Issue Affected Roads Listing For MUDFA	REP		8-Sep-06			Substructure		FA	Checker Issue Detailed Design Package to CAT	DWG		30-Oct-06		-	Substructure		FA	or CAT III Checker (as appropriate)	DWG	88	17-Nov-06		-
MOR - FOW (Section 1B)	+	FI	Works to Dundas & Wilson Issue Affected Roads Listing For MUDFA	REP	1 18	8-Sep-06			Bankhead Drive Retaining Wall		FA	or CAT III Checker (as appropriate) Issue Detailed Superstructure Drawing	DWG	1		-	-	BAR-EDP (Section 5B) South Gyle Access Bridge		EA	First Issue of DO to SUCs Issue Detailed Design Package to CAT II	DWG		24 Nov 08		-
PSW - MDR (Section 10) PSW - MDR (Section 10) St Andrew	1	(F)	Works to Dundon & Wilson Feasibility Drawings (with Statement	REP	1 16	8-Sep-05			Depot Main Building	×	FA	and Specifications Issue Yard Detailed Design Lighting	DWG	110	27-Dal-06	-	-	Superstructure South Gyle Access Endge		FA	or CAT III Checker (as appropriate) Issue Detailed Design Package to CAT II	DWG	65	13-Nor-66		+
Square CM8010		FA	Assessment) with CEC for Approval	-	26	9-Sep-06			Depot Main Building		FC	Design	DWG	110	24-Oct-06		-	Substructure		FA	or CAT ill Checker (as appropriate)	DWG	80	02-14w-06	_	-
PSW - MDR (Section 1C) Plicardy face CNS013		FA	Peasibility Drawings (with Statemen) Assessment) with OEC for Approval		19	9-Sep-08			GOG - AIR (Section 7A)	×	FA	Issue New Setts / Holf Design	DWG	1	30-Oct-06			Bankhead Drive Retaining Wall	×	FÀ	Issue Detailed Design Package to tie	DWG	85	27-Nov-06		
IAY - PSW (Section 1D)		FI	Issue Affected Roads Listing For MUDFA Works to Dundas & Wilson	REP	1 18	8-Sep-06			Gogar Born Bridge substructure		FA	Issue Detailed Design Package to CAT or CAT III Checker (as appropriate)	DWG	50	30-Dc:-06			EDP - GOG (Section 5C)		FA	First Issue of DD to SUCs	DWG	9	27-1400-06		
RO (Secrot 2)			Receive Draft Orders From Dundas & Wilson	DWG	15	5-Sep-08			Earl Bridge Superstructure		FA	Issue Detailed Design Package to CAT or CAT III Checker (as appropriate)	DWG	100	23-Oct-06			EDP - GOG (Section 50)		FA	Issue Affected Roads Listing For INFRACO Works to Dundas & Wilson	REP	1	21-Nov-06		
OJ - HAY (Section 2A)		FA	Issue Affected Roads Listing For MUDFA Works to Dundas & Wilson	REP	1 18	8 Sep 05			Earl Bridge Substructure		FA	Issue Detailed Design Package to CAT or CAT III Checker (as appropriate)	DWG	100	09-Oct-06			GDE (DEPOT Section Wide)		FA	Issue to BAA for Approval	DWG		27-Nov-06		
RO (Section 3)	П	FA	Submit to CEC for Officer Approval	DWG		1-Sep-06			-									GDE (DEPOT Section		FA	Itsue Detailed Earthworks Design	DWG		03-Nov-06		1
PT - CAP (Section 38)		FA	Issue Affected Roads Listing For MUDFA. Works to Dundas & Wilson	_		1-Sep-06												GDE (DEPOT Section		FA	Issue Ductwork Design to se for Comment	DMC		27-Nov-06		T
			Issue Allected Roads Listing For MUDFA								1			1				GDE (DEPOT Section		FA	Landa Control Control	DWG		244tov-06		1
PRT - CAP (Section 35)	×	FA	Works to Dundas & Wilson	REP		8-Sep-06		-			+	-	+	-				Wide)			First Issue of DD to SUCs Issue Detailed Substructure Drawings &					+
RO (Section 5)	+		Submit to GEC For Officer Approval Insue-Affected Roads Listing For MUDFA	DWG		0-Sep-06				-	+		+	+			-	Depoi Main Building		FA	Specifications to tile Subcontractor Price for Steel Work to	DWG	110	21 Nov-06		+
DP - GOG (Section 90)	-	FA	Works to Dundas & Wison	REP	1 18	8-Sep-06		-		-	-	-	-	-	-		-	Depot Main Building	-	PI	contractor for Procurement of	DWG	110	10-Nov-05		-
RO (Section 6)			sultient to CEC For Officer Approval	DWG	20	0-Sap-06								-				Depat Main Building		FI	Secondary Steehvork	DWG	110	10-Nov-06		+
TRO (Section 7)		71	Saturnal to CEC For Olfrow Approval	DWG	21	1-Sep-06											-	Depot Main Building		FI	Issue Package for Cladding	DWG	110	10-Nor-08		
OG - AIR (Section 7A)		FA	Issue Affected Roads Listing For MUDFA Works to Dundas & Wilton	REP	1 18	8-Sep-06												Depot Main Building	x	FA	Re issue Lighting Design	DWG	110	27-14ov-06		1
	-									1	-							The committee of the co			Part of the State	4	1			

UKPB1-#21811-v13-Submittal_Programme_&_Approval_Matrix.XLS

Itssae Detailed Design Package to CAT II or CAT III Checker (as appropriate)

ptember 2006	A STATE OF THE PARTY OF THE PAR						ŏ	October 2006	The same and			November 2006						
ction	de nosest for serie	Title	Decument	Parchaed	lanned Fore	orecast Actual		section	ADM Successive for Successive for the successive fo	Mocument Type Type Type Type Type Type Type Type	Forecast Actual	Section	ob not notes: outsi	7186	No. of Type Decument	Parined	Forecast.	Actual
												GDG - AIR (Sedion 7A)	PA	First lease of OD to SUCs	DWG	24.0kg/v 06		
												GOG - AIR (Section 7A)	¥.	tysue Affected Roads Lealing For IMPRACO Works to Dundae & Weson	430	21-Nov-06		
												Gogar Burn Bridge superstructure	ž	Issue Detailed Design Package to CAT II ov CAT III Checker (as appropriate)	DVAG 50	13-Nov-05		

Appendix G: HEALTH AND SAFETY STATISTICS





Edinburgh Tram Health & Safety Statistics: FY06

Table 1: RIDDOR Reportable Accidents

Employee							Perio	1						FY06
Category	1	2	3	4	5	6	7	8	9	10	11	12	13	Cumulative
PB Employee	0	0	0	0	0	0	0	0	0	0	0	0		0
PB Associate	0	0	0	0	0	0	0	0	0	0	0	0		0
Sub-contractor	0	0	0	0	0	0	0	0	0	0	0	0		0
Others	0	0	0	0	0	0	0	0	0	0	0	0		0
Period Totals	0	0	0	0	0	0	0	0	0	0	0	0		0

Table 2: Minor Accidents & Near Misses

Employee		T/					Perio	ı						FY06
Category	1	2	3	4	5	6	7	8	9	10	11	12	13	Cumulative
PB Employee	0	0	0	0	0	0	0	0	0	1	1	0		2
PB Associate	0	1	0	0	0	0	0	0	0	0	0	0		1
Sub-contractor	0	0	0	0	0	0	0	0	0	0	0	0		0
Others	0	0	0	0	0	0	0	0	0	0	0	0		0
Period Totals	0	1	0	0	0	0	0	0	0	1	1	0		3

Table 3: RIDDOR Reportable Dangerous Occurrences

Employee							Perio	1						FY06
Category	1	2	3	4	5	6	7	8	9	10	11	12	13	Cumulative
PB Employee	0	0	0	0	0	0	0	0	0	0	0	0		0
PB Associate	0	0	0	0	0	0	0	0	0	0	0	0		0
Sub-contractor	0	0	0	0	0	0	0	0	0	0	0	0		0
Others	0	0	0	0	0	0	0	0	0	0	0	0		0
Period Totals	0	0	0	0	0	0	0	0	0	0	0	0		0

Table 4: RIDDOR Reportable Occupational Diseases

Employee							Period	ı		,,				FY06
Category	1	2	3	4	5	6	7	8	9	10	11	12	13	Cumulative
PB Employee	0	0	0	0	0	0	0	0	0	0	0	0		0
PB Associate	0	0	0	0	0	0	0	0	0	0	0	0		0
Sub-contractor	0	0	0	0	0	0	0	0	0	0	0	0		0
Others	0	0	0	0	0	0	0	0	0	0	0	0		0
Period Totals	0	0	0	0	0	0	0	0	0	0	0	0		0

Table 5: Lost Time (Hours)

Employee							Perio	k						FY06
Category	1	2	3	4	5	6	7	8	9	10	11	12	13	Cumulative
PB Employee	0	0	0	0	0	0	0	0	0	0	0	. 0		0
PB Associate	0	0	0	0	0	0	0	0	0	0	0	0		0
Sub-contractor	0	- 0	0	0	0	0	0	0	0	0	0	0		0
Others	0	0	0	0	0	0	0	0	0	0	0	0		0
Period Totals	0	0	0	0	0	0	0	0	0	0	0	0		0

The above data were correct at: 29-Sep-06

Billy Johnston Edinburgh Tram HSQ Manager



Edinburgh Tram Health & Safety Statistics: FY06

ACCIDENT FREQUENCY RATES (AFR)

ACCIDENT INCIDENCE RATES (AIR)

Reportable Accidents*

100000

Manhours

Reportable Accidents*

100000

No of Employees

* RIDDOR Reportable Injuries, Diseases and Dangerous Occurrences

Period	1	2	3	4	5	6	7	8	9	10	11	12	13	Cumulative
AFR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00
AIR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00

HEALTH & SAFETY AUDITS & INSPECTIONS

Period	1	2	3	4	5	6	7	8	9	10	11	12	13
Scheduled													
Undertaken													
Unscheduled													

Legend Yes PB tie No X HSE **EHO**

PB & SUB-CONTRACTOR EMPLOYEES HEALTH & SAFETY INDUCTION

Period	1	2	3	4	5	6	7	8	9	10	11	12	13	Total
tie Induction	0	6	4	9	41	11	18	14	8	5	45	35		196
PB Induction	0	6	4	9	41	11	18	14	8	5	45	35		196

PERIOD DATES

Period	1	2	3	4	5	6	7	8	9	10	11	12	13
Period End Date	25-Nov-05	23-Dec-05	20-Jan-06	17-Feb-06	17-Mar-06	14-Apr-06	12-May-06	09-Jun-ò6	90-1115-20	04-Aug-06	01-Sep-06	29-Sep-06	27-Oct-06

The above data were correct at: 29-Sep-06

Billy Johnston Edinburgh Tram HSQ Manager Progress Report No. 14

Appendix H: RFI STATUS REPORT



Summary of RFIs Outstanding

RFI Number (Hummingbird Reference)	Description	Originator	Date Issued to 7 day Recipient due		7 day notice Received	Reply req'd by	AND DESCRIPTION OF THE PARTY OF	Days Overdue	Comments
ULE90130-SW-SW-RFI - 00006	Request for Ground Investigation Reports	Simon Nelis		5/12/2005		14/12/2005			
	Clarification of Chainages on Line 2 STAG Drawings	Andy Kelland	08/12/2005 15	5/12/2005		14/12/2005	315	309	
ULE90130-SW-SW-RFI - 00029	Survey Data Control - Edinburgh Tram Link	Russell Cohen	09/02/2006 16	6/02/2006		14/02/2006	252	247	
	Caledonian Ale House - Demolition	Russell Cohen		2/02/2006		22/02/2006	246	239	
ULE90130-SW-RFI - 00001	Historical Drawings of Existing Balgreen Road Bridge	Colin Walker		6/03/2006		16/03/2006		217	
ULE90130-SW-RFI - 00003	Development of Environmental Mitigation in the Roseburn Corridor	Louise Hill	16/03/2006 23	3/03/2006		23/03/2006	217	210	
ULE90130-07-RFI - 00003	Integrated Transport Hub at Airport	Mungo Stacy	16/05/2006 23	3/05/2006		21/05/2006	156	151	
ULE90130-03-RFI - 00001	Relocation of Footway on Coltbridge	Colin Walker	08/05/2006 15	5/05/2006		15/05/2006	164	157	
ULE90130-SW-RFI - 00014	Road Works Beyond LoDs	Russell Cohen		1/08/2006		08/05/2006		164	
ULE90130-SW-RFI - 00018	Side Agreements & Undertakings	Kevin Perry	27/06/2006 04	4/07/2006		04/07/2006	114	107	
ULE90130-SW-RFI - 00028	Run Time Simulation Scope	Andy Kelland	10/07/2006 17	7/07/2006		10/07/2006	101	101	
ULE90130-01-RFI - 00004	Bridges in Line Section 1A - Health and Safety File (As-built Drawings)	Colin Walker	27/07/2006 03	3/08/2006		15/08/2006	84	65	
ULE90130-03-RFI - 00002	LOD/Land available adjacent to Crewe Toll Stop	Paul Wilson	24/08/2006 31	1/08/2006		30/08/2006	56	. 50	
ULE90130-SW-RFI - 00054		Michael Blundred	14/09/2006 21	1/09/2006		29/09/2006	35	20	
ULE90130-05-RFI - 00003	WEBS Condition survey and design info	Kate Shudall	21/09/2006 28	8/09/2006		06/10/2006	28	13	
	Forth Ports Agreement Clarification	Scott Ney		2/10/2006		29/09/2006	24	20	
ULE90130-05-RFI - 00005	Roseburn Street Demolition A&U	Mungo Stacy	06/10/2006 13	3/10/2006		31/10/2006	13		
ULE90130-03-RFI - 00004	Editable Version of LHMP	Louise Hill	10/10/2006 17	7/10/2006		23/10/2006	9		

CEC00428837_0046